Interference Analysis to Accompany Request for Modification of Appendix 4 Technical Parameters of the notified AST-NG-C-3 Non-Geostationary Satellite System

1 Introduction

This report accompanies a request from the French administration to modify the orbital parameters of the notified AST-NG-C-3 non-geostationary orbit ("NGSO") satellite system (referred to hereafter as the "C-3 system"). The proposed modifications involve space stations that have been notified with frequency assignments in the mobile-satellite service ("MSS"), specifically in the 1610-1626.5 MHz (Earth-to-space) and 2483.5-2500 MHz (space-to-Earth). These orbital parameter modifications are designed to align the notified orbital parameters with the planned operations of the satellite system. This report demonstrates that the modified orbital parameters will result in interference that is less than or equal to the original configuration with respect to any other co-frequency geostationary satellite orbit ("GSO") and NGSO satellite networks and systems for which a coordination request has been submitted to the Radiocommunication Bureau of the ITU between the date of the original coordination request and the date of this requested modification.

The minimum EIRP levels of the C-3 system and its corresponding earth stations remain unchanged. Therefore, the modified parameters do not seek any additional protection.

The results of these interference analyses are presented as cumulative distribution ("CDF") plots to confirm the interference of the modified C-3 systems remains at or below the originally notified C-3 system. These analyses use the Appendix 4 data from the C-3 system and other GSO and NGSO satellite networks and systems.

Finally, a comparison of the power flux-density ("PFD") produced by the C-3 system before and after this modification is performed to confirm the interference into terrestrial systems remains at or below the original notified interference levels. Since the satellite transmit power of all satellites in the modified C-3 systems are unchanged, the PFD levels after the modification are identical to the as-notified PFD levels. Therefore, the proposed modification cannot increase the potential interference to terrestrial systems.

2 Summary of the requested modifications

This modification applies to the space stations that were notified and recorded in the master international frequency register ("MIFR"). Specifically, the Part II-S notification published in International Frequency Information Circular ("IFIC") 3003, dated 22 August 2023. This configuration is mutually exclusive from the existing notified system and therefore we replace it in its entirety as the notified characteristics of the C-3 system. The modifications to the orbital parameters are summarized in Table 1. The emission designators were changed to match the planned emissions that will be operated in the modified C-3 system. These changes are shown in Table 2. Since these are all digital emissions and the assigned bandwidth (data element C.3.a) is not changing, the before and after interference will not change due to changes in the emission designators. This is true on a maximum peak power and maximum power density basis since the

energy in the assigned bandwidth remains the same according to the following equation calculating the maximum power in the assigned bandwidth:

$$P_{max} = P_C + 10\log(N)$$

where N is the number of carriers that can be stacked side-by-side in the assigned bandwidth and P_C is the maximum peak power (in dBW) of the emission (C.8.a.1/C.8.b.1). Before the modification, 1,650 individual signals with bandwidth of 10 kHz could be arranged side-by-side in the 16.5 MHz assigned bandwidth and, in the space-to-Earth direction, P_C was 14.8 dBW for one 10 kHz signal, resulting in a P_{max} of 47.0 dBW. After the modification, a single 16.5 MHz emission with a P_C of 47.0 dBW yields the same maximum peak power since 10log(1) is 0 dB and therefore $P_C = P_{max}$. The following figure illustrates this example. This same approach was followed for other combinations of before and after emissions to ensure the maximum peak power of the modified emissions with wider bandwidths than the as-notified emissions do not exceed the envelope of the as-notified emissions.

Figure 1 – Before modification showing multiple narrow emissions inside the assigned bandwidth compared to a modified single carrier occupying the assigned bandwidth

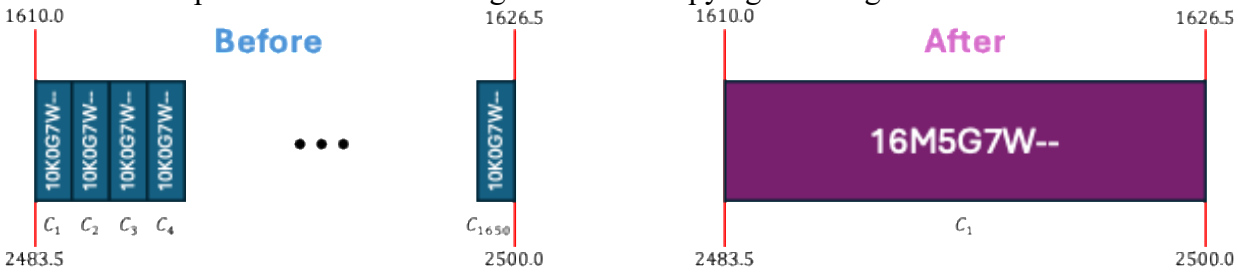


Table 1 – Summary of the requested modifications to the orbital parameters of the C-3 system

Configuration	Apogee	Perigee	Inclination	Number of Planes	Satellites per Plane	Total satellites per shell	Total satellites
Before	680	680	60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90	16	6	1536	6401
	680	680	98.1	16	4	64	
	800	800	60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90	16	6	1536	
	800	800	98.5	16	4	64	
	1000	1000	60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90	16	6	1536	
	1000	1000	99.4	16	4	64	
	1400	1400	60, 62, 64, 66, 68, 70, 72, 74,	16	6	1536	

			76, 78, 80, 82, 84, 86, 88, 90				
	1400	1400	101.4	16	4	64	
	1414	1414	52	1	1	1	
After	1400	1400	87	3	4	12	60
	1414	1414	52	12	4	48	

Table 2 – Summary of modifications to the emission designators

Transmission direction	Before	After
Earth-to-space	120HG7W-- 10K0G7W-- 200KG7W-- 1M08G7W-- 2M00G7W--	16M5G7W-- 2M50G1D-- 1M23G7W-- 1M00G7W-- 200KG7D-- 200KG7W--
space-to-Earth	17K5G7W-- 10K0G7W--	16M5G7W-- 1M23G7W-- 1M00G7W-- 200KG7W-- 200KG7D--

Table 3 – Maximum peak power comparison of as-notified and as-modified emissions

Before						**After**		
E/R	Emission designator	Emission bandwidth	Emission max power	Number of channels in assigned bandwidth	Total power in assigned bandwidth	Emission designator	Emission bandwidth	Emission max power
		MHz	dBW	No.	dBW		MHz	dBW
E	10K0G7W--	0.01	14.8	1650	**47.0**	16M5G7W--	16.5	**47.0**
E	10K0G7W--	0.01	14.8	123	**35.7**	1M23G7W--	1.23	**35.7**
E	10K0G7W--	0.01	14.8	100	**34.8**	1M00G7W--	1.0	**34.8**
E	10K0G7W--	0.01	14.8	20	**27.8**	200KG7W--	0.2	**27.8**
E	10K0G7W--	0.01	14.8	20	**27.8**	200KG7D--	0.2	**27.8**
R	10K0G7W--	0.01	0.5	1650	**32.7**	16M5G7W--	16.5	**32.7**
R	10K0G7W--	0.01	0.5	250	**24.5**	2M50G1D --	2.5	**24.5**
R	10K0G7W--	0.01	0.5	123	**21.4**	1M23G7W--	1.23	**21.4**

3 Methodology for the interference assessment

The analyses presented in this report address the effect of the modification on the potential interference into subsequently filed co-frequency GSO and NGSO systems. The analysis considers the statistics of the time-varying interference from the C-3 system. First, the as-notified interference levels that exist prior to the proposed modification are determined. The analysis results are presented as a CDF of the interference levels, expressed as an interference-to-noise ("I/N") ratio, as a function of time. The I/N CDF is derived from a time-domain simulation of the

C-3 system whose satellites are propagated over a sufficient duration to give stable interference results. The interference levels from the proposed modification characteristics are then calculated in the same way and compared to the reference situation before the modification. If the interference levels of the modified characteristics are less than those originally notified, then it has been shown not to increase the interference into the subsequently submitted satellites networks and systems.

This interference methodology is a conservative one. The objective is for the I/N levels for all percentages of time to be equal to or less than the levels before the modification. This approach therefore guarantees that the performance of the victim system relative to the potential interference from the C-3 system, is better than before the modification. A review of the results presented later in this report confirm this to be the case.

In addition, this methodology employs a random satellite selection strategy of the eligible satellites. Eligibility (for both interfering and interfered-with systems) is determined by one criterion: satellites that are above a minimum elevation angle of 10 degrees as observed by the earth station. At each sample, a single interfering satellite is selected considering that multiple eligible satellites within the C-3 system could not serve the same location as the C-3 satellite system employs non-directional earth station antennas. For the interfered-with satellite systems, the study similarly assumes only a single satellite is transmitting toward or receiving from the earth station location.

The study considers that the C-3 earth station is collocated with the interfered-with satellite system. In addition, multiple latitudes are considered for the earth station position. Specifically, 0, 15, 30, 50, and 65°N latitudes are studied. NGSO system geometry varies by latitude and studying the interference at different latitudes ensures this geometric variability is considered in the simulation. For most systems, a single longitude (0°E.L.) of the earth station is considered assuming the NGSO and GSO networks are longitude independent. The KPS-NGSO system has longitude dependent orbits and so a longitude of 135°W.L. is considered in the simulation for this system.

For some NGSO systems studied, there are samples in the simulation where there are no eligible satellites. For these samples, no interference statistics are collected, and the I/N CDF plots show these cases as CDF curves that do not span the entire ordinate axis. Moreover, there are some latitudes of the earth station that are not visible to certain NGSO systems. No interference statistics are shown at these latitudes for these NGSO systems.

Finally, this methodology assumes that no interference mitigation takes place between the systems. Any interference mitigation measures can be agreed between the two or more NGSO system operators during coordination, and the possibilities for such mitigation are equally applicable both before and after the modifications considered herein. There is no aspect of the proposed modifications that restricts the possible interference mitigation techniques that could subsequently be applied.

4 Subsequently filed NGSO systems to consider

There are 54 NGSO systems considered in this analysis. These are satellite systems with overlapping frequencies assignments and a protection date between the date of protection of the C-3 frequency assignments and the date of submission of this report. These satellite systems are listed in Table 3 below. The orbital data and emission parameters for each of these satellite systems are queried from the MIFR. Specifically, the SRS database from IFIC 3037 was used. For some of these NGSO systems, there are more than one mutually exclusive configuration identified in the data. These configurations are evaluated individually, as appropriate. Annex A contains detailed parameters necessary for this interference assessment of these other NGSO systems.

Table 4 – List of other NGSO systems considered in this assessment

A4NG-C	CSN-V3-1	GW	MICRONSAT
AST-NG-C-3	CSN-V3-2	GW-1	MICRONSAT-2
AST-NG-C-4	CSN-V4	GW-2	NSAT01
CLEOSAT	CSN-V5	GW-A59	NSAT01.001
COURIER-3	CSN-V6	HIBLEO-2	PAX-1
CSIOT_NBIOT22	CSN-V7	HIBLEO-XL-1	SI-SAT-CHIRI
CSN-L1	D-ISIPELE-C	HISPASAT-LEO-ATL-C	SI-SAT-KURUKURU
CSN-L2	D-LEG1-1	HISPASAT-LEO-NB	SI-SAT-KURUKURU-2
CSN-L3	D-MEG1-1	HISPASAT-LEO-NB-3	SPACELOOP
CSN-V1-1	D-NGSO-1120-1	INSAT-NAV-GS17	SSG-CSL
CSN-V1-2	EB-SAT-LEO-1	KELYPSIS	SYNCHROCUBE
CSN-V1-3	EB-SAT-LEO-1B	KPS-NGSO	USASAT-NGSO-MVLS
CSN-V2-1	F-SAT-NG-14	MARS-VLS	
CSN-V2-2	GALILEO-NG	MCLSAT	

5 Subsequently filed GSO networks to consider

Like with NGSO systems, all GSO networks with frequency assignments overlapping with the C-3 system and protection dates in between the date of protection of the C-3 system and the submission of this report are evaluated. As above, the emission characteristics are queried from the SRS database in IFIC 3036.

In IFIC 3036, there were 190 GSO satellite networks with overlapping frequency assignments and protection dates meeting the criteria described above. In terms of Earth-to-space emission characteristics, there are 33 unique combinations of receive satellite antenna gain and receiver noise temperature from these GSO satellite networks. In the space-to-Earth direction, there are 59 unique combinations of receive earth station antenna gain, receiver noise temperature, and antenna patterns from these GSO networks.

As many of the uplink and downlink combinations are very similar to one another, only a sampling of representative emission characteristics is considered in the analysis. This information is present in Tables 4 and 5.

Table 5 – GSO space-to-Earth parameters considered

Earth station antenna gain	Earth station noise temperature	Earth station antenna pattern	Earth station antenna pattern Coef. A
-4	500	ND-EARTH	
0	150	ND-EARTH	
2	320	ND-EARTH	
4	150	ND-EARTH	
5	250	APEMLA240V01	
6	175	APEUAE230V01	
6	150	ND-EARTH	
6	175	APEREC028V01	
9	250	APEREC028V01	
10	250	A-25*LOG(FI)	29
12	150	ND-EARTH	
12	160	APEUAE229V01	
12	160	APEREC028V01	
14	255	APEMLA242V01	
15	250	APEREC028V01	
15	150	ND-EARTH	
16	160	APEREC028V01	
16	160	APEUAE235V01	
16.3	250	A-25*LOG(FI)	29
17	150	ND-EARTH	
20	316	APEMLA244V01	
20	150	ND-EARTH	
25.8	250	A-25*LOG(FI)	29
30	160	AP8	
35	497	AP8	

Table 6 – GSO Earth-to-space parameters considered

Satellite antenna gain	Satellite noise temperature
15	800
25	630
30	400
34	550
38	410
40	300
45	410
47	400
50	300
52.2	410

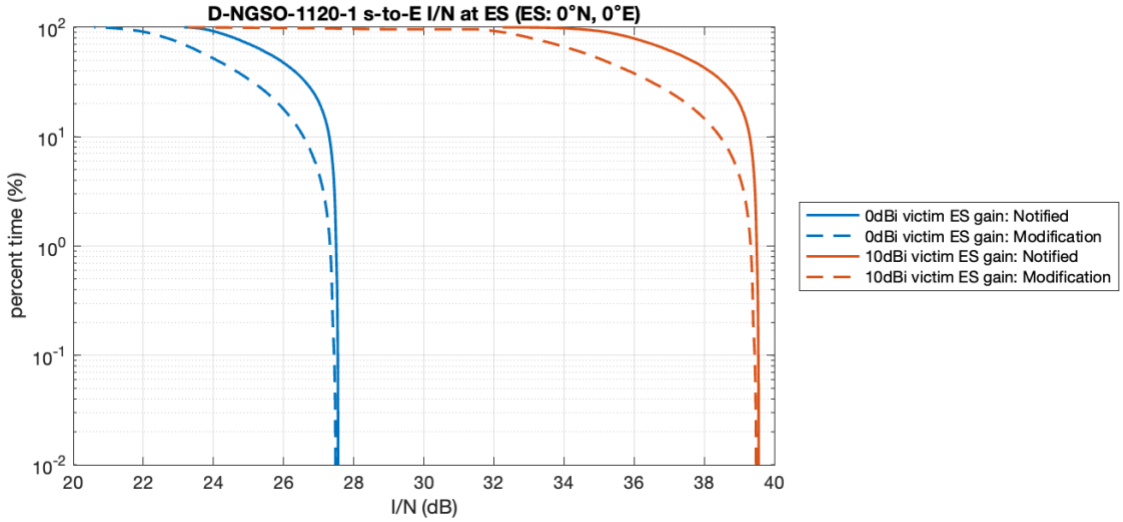
6 Interference analysis results

As explained above, the interference analysis uses a time domain simulation to derive a CDF of the I/N values at the receiver of the victim GSO network or NGSO system. A computer program

is used to model the orbital parameters, the emission characteristics, and simulate the interference between the satellite networks and systems over time.

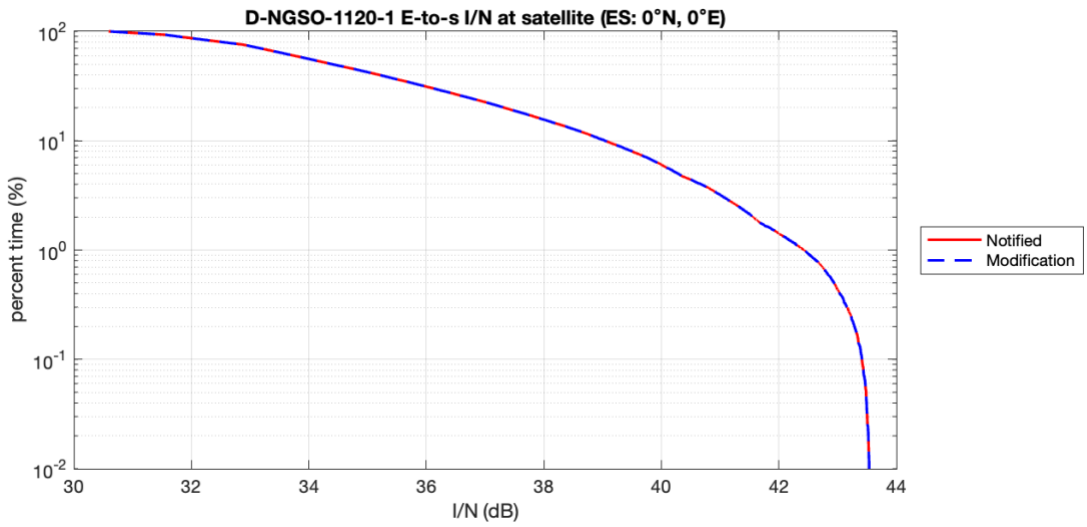
Figure 2 shows an example space-to-Earth I/N CDF of the D-NGSO-1120-1 system. This system has two different earth station antenna gain and noise temperature configurations. As stated in the legend, the solid lines are the I/N CDF resulting from the original C-3 characteristics and the dashed line is that of the proposed modified C-3 characteristics.

Figure 2 – Example CDF plot for comparison of the downlink interference into other NGSO systems before and after the modification



As mentioned, the Earth-to-space interference remains unchanged as the earth station emission characteristics remain unchanged. This, coupled with the non-directional earth station antenna pattern, results in identical I/N CDF curves. Figure 3 shows an example I/N CDF in the Earth-to-space direction for the D-NGSO-1120-1 system confirming this to be the case.

Figure 3 – Example CDF plot for comparison of the uplink interference into other NGSO systems before and after the modification

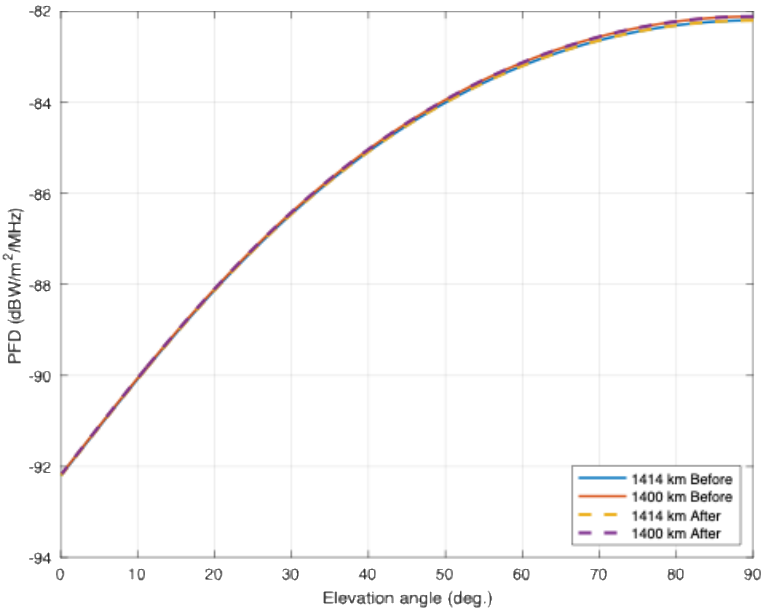


7 Acceptance of any increased interference into the C-3 system

The French administration commits to not requiring any more interference protection from other GSO networks and NGSO systems than is required for the original C-3 system.

8 Terrestrial interference analysis

The 2483.5-2500 MHz frequencies are subject to coordination with terrestrial systems under No. **9.14**. The interference from the proposed modification is equal to as-notified characteristics because the per-satellite power flux-density ("PFD") does not change. The originally notified characteristics at 1400 and 1414 km in altitude have peak power spectral density of -25.2 dBW/Hz which is kept for these altitudes in the modification. The peak antenna gain of the satellite beams is also unchanged for these altitudes which means the PFD from the modified C-3 system will be the same as the notified PFD levels. The following plot shows the before and after single-satellite PFD on the Earth as a function of elevation angle for the 1414 km and 1400 km orbital altitude shells. Since the satellites will not overlap in coverage to avoid self-interference, this single-satellite PFD analysis matches the expected, real-world operations of the C-3 system. Note that the before and after curves are the same since the satellite antenna gain and input power and power spectral density does not change.



9 Conclusion

This interference analysis and associated results confirm that the proposed modification to the C-3 system will not create more interference into other GSO networks, NGSO systems, and terrestrial systems that have overlapping frequencies with the C-3 system and dates of protection between the protection date of the C-3 frequency assignments and the date of submission of this report. Moreover, no additional interference protection is sought from these GSO networks and NGSO systems.

10 Annex A. Parameters of the Other NGSO Systems Used in the Interference Assessment

The following tables contain the orbital parameters and emission characteristics for the NGSO systems considered in this analysis. As mentioned, there are two NGSO systems with mutually exclusive configurations, CSN-L3 and GW-2, denoted in the table with "CONFIG" suffixes. A separate interference analysis is performed for each of these separate configurations. For the inclination angle column, some NGSO systems have multiple inclination angles for a given apogee, perigee, number of planes, and number of satellites per plane which are shown on one row. These rows should be understood as different orbital shells at each inclination angle listed.

For the satellite receive parameters, there are multiple gain values shown for a single satellite noise temperature. The simulation only considered the most sensitive combination of gain to noise temperature for a given NGSO system.

Table A1 – Orbital information

Satellite system	Apogee	Perigee	Inclination(s)	Number of planes	Satellites per plane
A4NG-C	600	600	97.7	6	11
AST-NG-C-4	800	800	88	12	36

	800	800	0	36	2
	900	900	88	12	36
	900	900	0	36	2
	1000	1000	88	12	36
	1000	1000	0	36	2
	1100	1100	88	12	36
	1100	1100	0	36	2
	1200	1200	88	12	36
	1200	1200	0	36	2
	1300	1300	88	12	36
	1300	1300	0	36	2
	1400	1400	88	12	36
	1400	1400	0	36	2
	1500	1500	88	12	36
	1500	1500	0	36	2
	800	800	60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90	16	6
	800	800	98.5	16	4
	1000	1000	60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90	16	6
	1000	1000	99.4	16	4
	1400	1400	60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90	16	6
	1400	1400	101.4	16	4
	415	415	52.5	1	1
CLEOSAT	850	850	86	10	6
	533	519	97.5	1	1
	8062	8062	0	1	1
COURIER-3	800	800	76	9	8
	575	575	97.5	1	1
CSIOT_NBIOT22	550	550	7, 7	20	1
	550	550	53, 53, 53, 53	25	1
	550	550	70, 70, 70, 70	20	1
	550	550	97, 97, 97, 97, 97, 97, 97, 97, 97	30	1
	550	550	97.6	1	1
CSN-L1	1150	1150	50	36	12
CSN-L2	1175	1175	86.5	12	6
CSN-L3-CONFIG1	1130	1130	30	36	48
CSN-L3-CONFIG2	1130	1130	40	36	48
CSN-L3-CONFIG3	1130	1130	50	36	48
CSN-L3-CONFIG4	1130	1130	60	36	48
CSN-V1-1	315	315	30	65	24
CSN-V1-2	315	315	30	65	23
CSN-V1-3	315	315	30	65	23
CSN-V2-1	365	365	40	56	33

CSN-V2-2	365	365	40	56	32
CSN-V3-1	435	435	50	60	30
CSN-V3-2	435	435	50	60	30
CSN-V4	453.5	453.5	85	24	16
CSN-V5	478.3	478.3	97.3	24	15
CSN-V6	503.4	503.4	35	20	20
CSN-V7	520	520	53	24	18
D-ISIPELE-C	575	575	97.7	25	7
D-LEG1-1	674	674	55	24	25
	674	674	53.9	14	34
	682	682	81	14	13
	642	642	40	7	18
	650	650	96	1	1
D-MEG1-1	6800	6800	45	7	4
D-NGSO-1120-1	485	485	55	35	36
	515	515	70	10	10
	600	600	55	30	30
	620	620	98	10	10
	700	700	55	30	24
EB-SAT-LEO-1	600	600	97.7	6	5
	800	800	98.6	6	5
	600	600	0	6	1
	600	600	20	6	4
EB-SAT-LEO-1B	450	450	40	5	3
	450	450	50	5	3
	450	450	60	5	3
F-SAT-NG-14	600	600	51	46	24
	900	900	51	46	24
	1200	1200	51	46	24
	600	600	89.5	46	24
	900	900	89.5	46	24
	1200	1200	89.5	46	24
GALILEO-NG	23222	23222	56	10	3
GW	1175	1175	86.5	48	18
GW-1	1175	1175	86.5	48	18
	1095	1095	50	6	1
GW-2-CONFIG1	1145	1145	30	36	48
GW-2-CONFIG2	1145	1145	40	36	48
GW-2-CONFIG3	1145	1145	50	36	48
GW-2-CONFIG4	1145	1145	60	36	48
GW-A59	590	590	85	30	16
	600	600	50	50	40
	508	508	55	60	60
HIBLEO-2	780	780	86.5	11	6
HIBLEO-XL-1	485	485	55	35	36
	515	515	70	10	10
	600	600	55	30	30
	620	620	98	10	10
	700	700	55	30	24

	1414	1414	52	6	8
HISPASAT-LEO-ATL-C	670	670	97	4	4
HISPASAT-LEO-NB	600	600	97.7	20	20
	800	800	98.6	20	20
	550	550	20	8	20
	750	750	20	8	20
	550	550	0	20	1
	750	750	0	20	1
HISPASAT-LEO-NB-3	600	600	97.7	20	20
	800	800	98.6	20	20
	550	550	20	8	20
	750	750	20	8	20
	550	550	0	20	1
	750	750	0	20	1
INSAT-NAV-GS17	35800	35800	29	2	2
KELYPSIS	575	575	97.7	25	7
	410	410	51.8	25	1
	500	500	51.7	25	1
	535	535	97.5	1	1
KPS-NGSO	38948.3	32623.7	42	2	1
	38948.3	32623.7	42	1	3
MARS-VLS	604	604	148	12	12
	614	614	115.7	18	18
	340	340	53	110	48
	345	345	46	110	48
	350	350	38	110	48
	360	360	96.9	120	30
	525	525	53	120	28
	530	530	43	120	28
	535	535	33	120	28
MCLSAT	500	500	50, 60, 80, 90	25	24
	500	500	0	25	1
	500	500	97.4	25	1
	600	600	50, 60, 80, 90	25	24
	600	600	0	25	1
	600	600	97.8	25	1
	700	700	50, 60, 80, 90	25	24
	700	700	0	25	1
	700	700	98.2	25	1
	800	800	50, 60, 80, 90	25	24
	800	800	0	25	1
	800	800	98.6	25	1
MICRONSAT	1400	1400	98	10	5
	698	698	85	15	7
	698	698	35	10	6
	730	725	0	18	1
	735	730	40	15	10

	740	735	55	15	5
MICRONSAT-2	510	510	53	5	4
	700	700	45	1	348
NSAT01	800	800	40	12	8
NSAT01.001	800	800	24	1	1
PAX-1	550	550	97.6	20	16
	650	650	53	20	24
	935	935	53	20	18
SI-SAT-CHIRI	550	550	97.6	20	20
	400	400	51.6	24	24
	167	167	78	50	50
	204	204	78	42	42
	249	249	78	36	36
	304	304	78	30	30
	372	372	78	26	26
	455	455	78	22	22
	540	540	53	30	30
	310	310	52	30	30
	490	490	52	30	30
SI-SAT-KURUKURU	587	577	45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45	5	1
	420	407	52	1	1
SI-SAT-KURUKURU-2	582	582	53	10	6
	582	582	97.9	8	3
SPACELOOP	500	500	98	4	3
	500	500	51	6	4
	500	500	15	6	1
	550	550	98	4	3
	550	550	51	6	4
	550	550	15	6	1
	600	600	98	4	3
	600	600	51	6	4
	600	600	15	6	1
SSG-CSL	500	500	97	3	1
	740	740	0	40	1
	730	730	10	40	1
	720	720	13	40	1
	710	710	10	40	1
	700	700	13	40	1
	750	750	13	40	2
	750	750	10	40	1
	750	750	0	40	1
SYNCHROCUBE	550	550	55	6	4
	550	550	97.6	1	1
USASAT-NGSO-MVLS	604	604	148	12	12
	614	614	115.7	18	18
	340	340	53	110	48
	345	345	46	110	48

	350	350	38	110	48
	360	360	96.9	120	30
	525	525	53	120	28
	530	530	43	120	28
	535	535	33	120	28

Table A2 – Satellite receiver characteristics

Satellite system	Satellite antenna gain	Satellite noise temperature
AST-NG-C-4	17, 18.4, 20.3, 21.9, 23.2	290
CLEOSAT	20, 22, 23, 25	600
COURIER-3	9.3, 9.8, 10.8, 11.1, 12.8, 13, 14.9, 16.8	450
CSIOT_NBIOT22	15.6, 20.8, 22.2	290
CSN-L1	17, 24, 25	560
CSN-L2	17, 24, 25	560
CSN-L3	17, 24, 25	560
CSN-V1-1	17, 24, 25	560
CSN-V1-2	17, 24, 25	560
CSN-V1-3	17, 24, 25	560
CSN-V2-1	17, 24, 25	560
CSN-V2-2	17, 24, 25	560
CSN-V3-1	17, 24, 25	560
CSN-V3-2	17, 24, 25	560
CSN-V4	17, 24, 25	560
CSN-V5	17, 24, 25	560
CSN-V6	17, 24, 25	560
CSN-V7	17, 24, 25	560
D-ISIPELE-C	11.5, 12.1	450
D-LEG1-1	22.9, 25.4, 28.9, 32.4, 34.9	400
D-MEG1-1	22, 31, 40	450
D-NGSO-1120-1	29.7, 33.4	728
EB-SAT-LEO-1	3, 3.9	600
EB-SAT-LEO-1B	3, 3.9	600
F-SAT-NG-14	17, 21.9	290
GW	17, 24, 25	560
GW-2	17, 24, 25	560
GW-A59	17, 24, 25	560
HIBLEO-2	16.4, 16.8, 22.6, 22.8, 22.9, 23.1, 23.9, 24.3	500
HIBLEO-XL-1	13.9, 16.6, 17, 18.8, 18.9, 19, 19.1, 29.7, 33.4	400
HIBLEO-XL-1	13.9, 16.6, 17, 18.8, 18.9, 19, 19.1, 29.7, 33.4	728
HISPASAT-LEO-ATL-C	3, 3.9	600
HISPASAT-LEO-NB	3, 3.9	600
HISPASAT-LEO-NB-3	3, 3.9	600
MARS-VLS	27.6, 34.8	450
MCLSAT	20, 35, 47	440
SI-SAT-KURUKURU	4.5, 5	450
SI-SAT-KURUKURU-2	5.5, 30	600
SPACELOOP	3, 4.5	500

USASAT-NGSO-MVLS	27.6, 34.8	450

Table A3 – Earth station receiver characteristics

Satellite system	Antenna gain	Earth station noise temperature	Earth station antenna pattern	Earth station pattern Coef. A
A4NG-C	22.8	300	A-25*LOG(FI)	29
AST-NG-C-3	0	500	ND-EARTH	
	4	500	ES_GAIN_PAT1	
AST-NG-C-4	0	500	ND-EARTH	
	4	500	ES_GAIN_PAT1	
CLEOSAT	0	400	ND-EARTH	
CSIOT_NBIOT22	0	290	ND-EARTH	
	5	290	ND-EARTH	
CSN-L1	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-L2	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-L3	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V1-1	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V1-2	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V1-3	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V2-1	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V2-2	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V3-1	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V3-2	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V4	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V5	0	440	ND-EARTH	

	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V6	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
CSN-V7	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
D-ISIPELE-C	2	290	ND-EARTH	
	6	290	ND-EARTH	
D-LEG1-1	0	400	ND-EARTH	
	3	400	ND-EARTH	
	12	400	A-25*LOG(FI)	41
D-MEG1-1	0	250	ND-EARTH	
	5	250	ND-EARTH	
	15	250	REC-580-6	
D-NGSO-1120-1	0	917	ND-EARTH	
	10	579	ES_GAIN_PAT2	
EB-SAT-LEO-1	3	300	ND-EARTH	
EB-SAT-LEO-1B	3	300	ND-EARTH	
F-SAT-NG-14	0	500	ND-EARTH	
	4	500	ES_GAIN_PAT1	
GALILEO-NG	4.5	100	ND-EARTH	
GW	0	440	ND-EARTH	
	4	440	ND-EARTH	
GW-1	24	100	ND-EARTH	
GW-2	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
GW-A59	0	440	ND-EARTH	
	4	440	ND-EARTH	
	4.5	440	ND-EARTH	
HIBLEO-2	-1	250	ND-EARTH	
	1	250	ND-EARTH	
	1.5	250	ND-EARTH	
	2	250	ND-EARTH	
	3.5	250	ND-EARTH	
	7.7	250	ND-EARTH	
	10.7	250	ND-EARTH	
	11.8	250	ND-EARTH	
HIBLEO-XL-1	0	917	ND-EARTH	
	2.4	295	ES_GAIN_PAT3	
	10	579	ES_GAIN_PAT2	
HISPASAT-LEO-ATL-C	3	300	ND-EARTH	
	30	200	ND-EARTH	
HISPASAT-LEO-NB	3	300	ND-EARTH	
	30	200	ND-EARTH	
HISPASAT-LEO-NB-3	3	300	ND-EARTH	
	30	200	ND-EARTH	

INSAT-NAV-GS17	-3	250	ND-EARTH	
	4	1260	ND-EARTH	
KELYPSIS	2	140	ND-EARTH	
	5	140	ND-EARTH	
KPS-NGSO	3	330	ND-EARTH	
MARS-VLS	-9	1400	ND-EARTH	
MCLSAT	-3	1450	ND-EARTH	
	0	1450	ND-EARTH	
	5	1450	ND-EARTH	
MICRONSAT	0	298	ND-EARTH	
	0	2367	ND-EARTH	
	3	298	ND-EARTH	
	3	2367	ND-EARTH	
	38	472	REC-580-6	
	39.7	100	REC-580-6	
MICRONSAT-2	39.7	100	REC-465-5	
NSAT01	3	400	ND-EARTH	
NSAT01.001	3	400	ND-EARTH	
PAX-1	0	500	ND-EARTH	
SI-SAT-CHIRI	-6	200	ND-EARTH	
	34.4	200	REC-580-6	
SI-SAT-KURUKURU-2	0	400	ND-EARTH	
	6.8	400	REC-580-6	
	30.3	400	REC-580-6	
SPACELOOP	0	200	ND-EARTH	
	3	200	ND-EARTH	
	6	200	ND-EARTH	
	14	200	A-25*LOG(FI)	29
	22	200	A-25*LOG(FI)	29
SSG-CSL	7.4	500	ND-EARTH	
	31	450	A-25*LOG(FI)	32
SYNCHROCUBE	2.4	300	ES_GAIN_PAT4	
USASAT-NGSO-MVLS	-9	1400	ND-EARTH	

11 Annex B. Interference Analysis Results

The I/N CDF plots in the space-to-Earth and Earth-to-space direction of all satellite systems listed in Annex A are presented below (after Table B1). Each earth station latitude is shown in a separate plot.

To simply the review of the results, the following table contains the uplink and downlink results in the form of minimum margin (in dBs) between the I/N CDF curves. Negative values mean the proposed modification is at least that much lower in I/N than the originally notified characteristics.

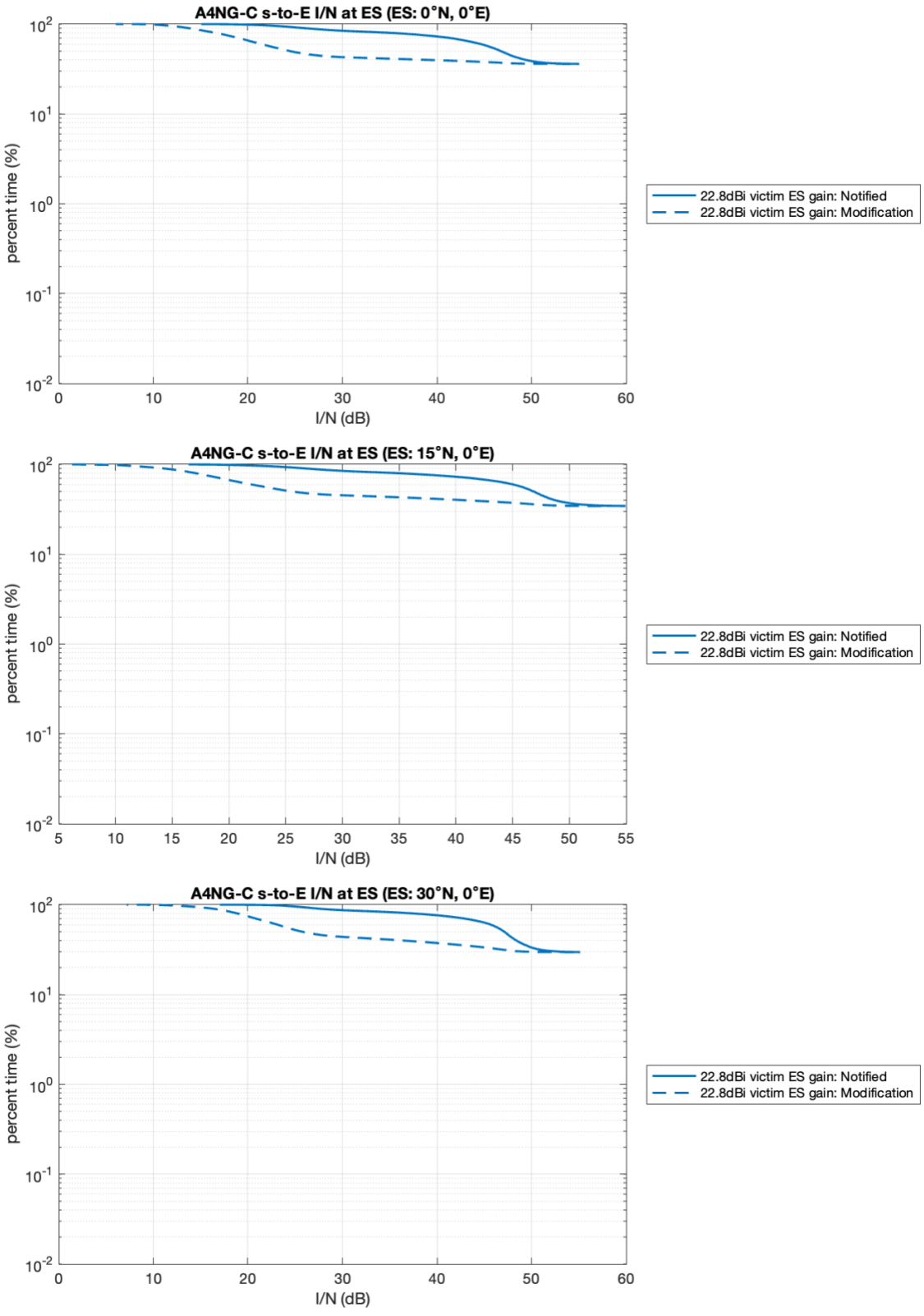
Table B1 – Summary of the I/N results in terms of minimum margin

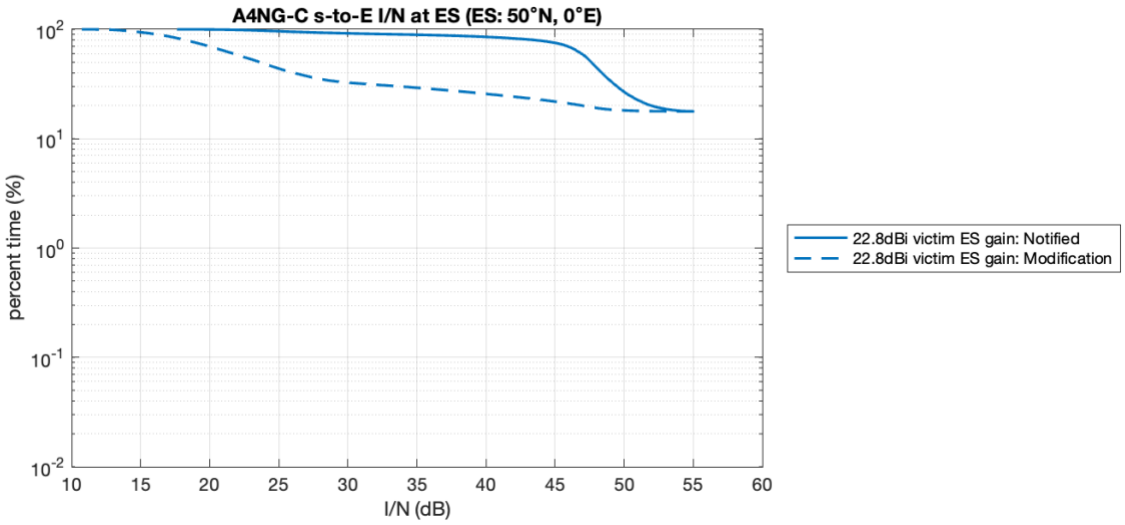
Downlink	Uplink

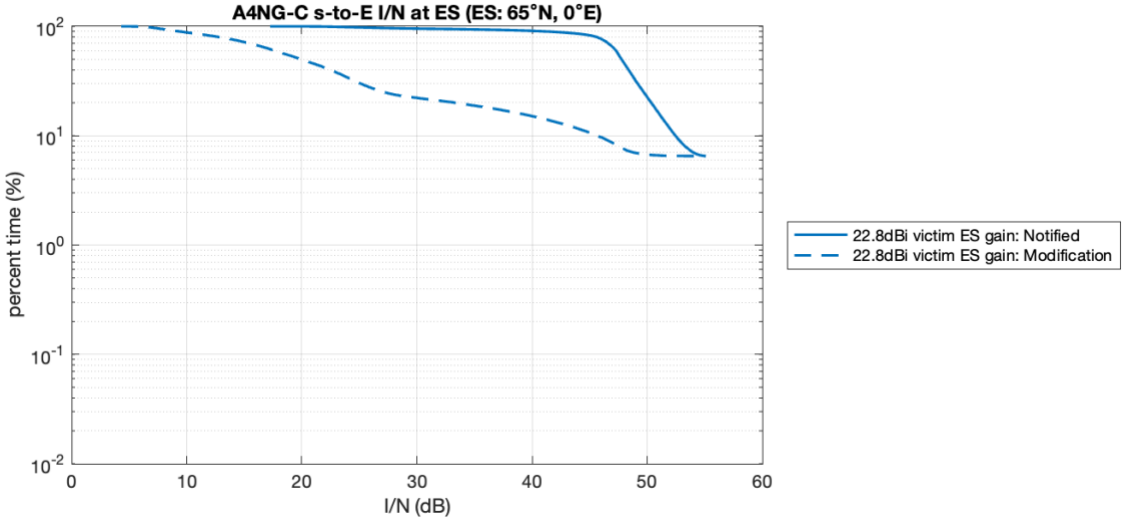
	0N	15N	30N	50N	65N	0N	15N	30N	50N	65N
A4NG-C	-1.0	-2.1	-0.7	-0.1	-1.0					
AST-NG-C-4	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CLEOSAT	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
COURIER-3						0.0	0.0	0.0	0.0	0.0
CSIOT_NBIOT22	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CSN-L1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CSN-L2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CSN-L3-CONFIG1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
CSN-L3-CONFIG2	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
CSN-L3-CONFIG3	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CSN-L3-CONFIG4	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CSN-V1-1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V1-2	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V1-3	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V2-1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V2-2	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V3-1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V3-2	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V4	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CSN-V5	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
CSN-V6	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CSN-V7	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
D-ISIPELE-C	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
D-LEG1-1	-0.1	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
D-MEG1-1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
D-NGSO-1120-1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
EB-SAT-LEO-1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
EB-SAT-LEO-1B	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
F-SAT-NG-14	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
GALILEO-NG	-0.1	-0.1	-0.1	-0.1	-0.1					
GW	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
GW-1	-0.1	-0.1	-0.1	-0.1	-0.1					
GW-2-CONFIG1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
GW-2-CONFIG2	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
GW-2-CONFIG3	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
GW-2-CONFIG4	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
GW-A59	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
HIBLEO-2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0

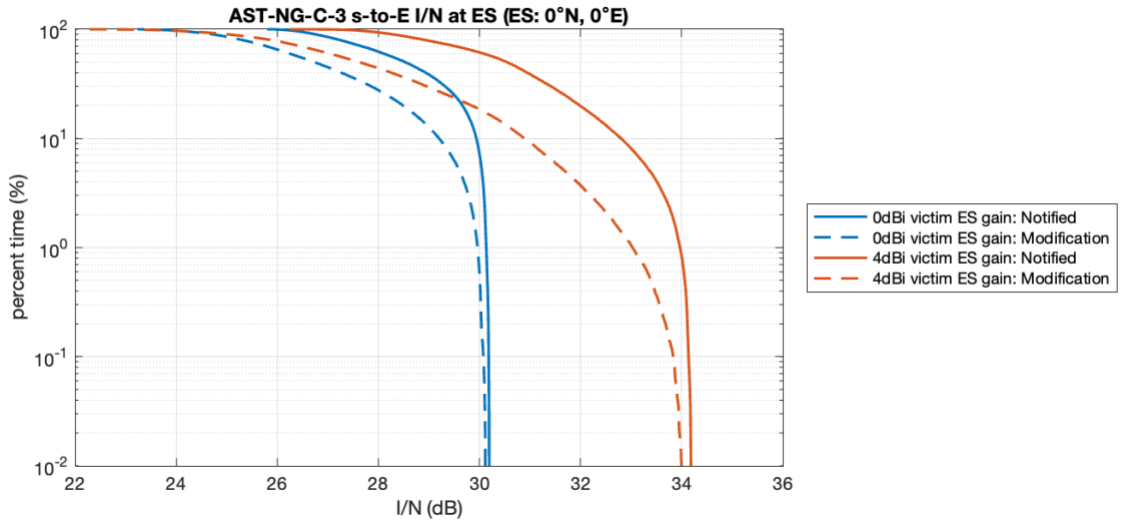
HIBLEO-XL-1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
HISPASAT-LEO-ATL-C	-0.2	-0.2	-0.2	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0
HISPASAT-LEO-NB	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
HISPASAT-LEO-NB-3	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
INSAT-NAV-GS17	-0.1	-0.1	-0.1	-0.1	-0.1					
KELYPSIS	-0.1	-0.1	-0.1	-0.1	-0.1					
KPS-NGSO	-0.1	-0.1	-0.1	-0.1	-0.1					
MARS-VLS	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
MCLSAT	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
MICRONSAT	-0.1	-0.1	-0.1	-0.1	-0.1					
MICRONSAT-2	-0.7	-2.4	-1.8	-1.6	-0.4					
NSAT01	-0.1	-0.1	-0.1	-0.1	0.0					
NSAT01.001	-0.1	-0.2	-0.1	0.0	0.0					
PAX-1	-0.1	-0.1	-0.1	-0.1	-0.1					
SI-SAT-CHIRI	-0.1	-0.1	-0.1	-0.1	-0.1					
SI-SAT-KURUKURU						0.0	0.0	0.0	0.0	0.0
SI-SAT-KURUKURU-2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
SPACELOOP	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0
SSG-CSL	-0.1	-0.1	-0.1	-0.1	-0.1					
SYNCHROCUBE	-0.1	-0.1	-0.1	-0.1	-0.1					
USASAT-NGSO-MVLS	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0

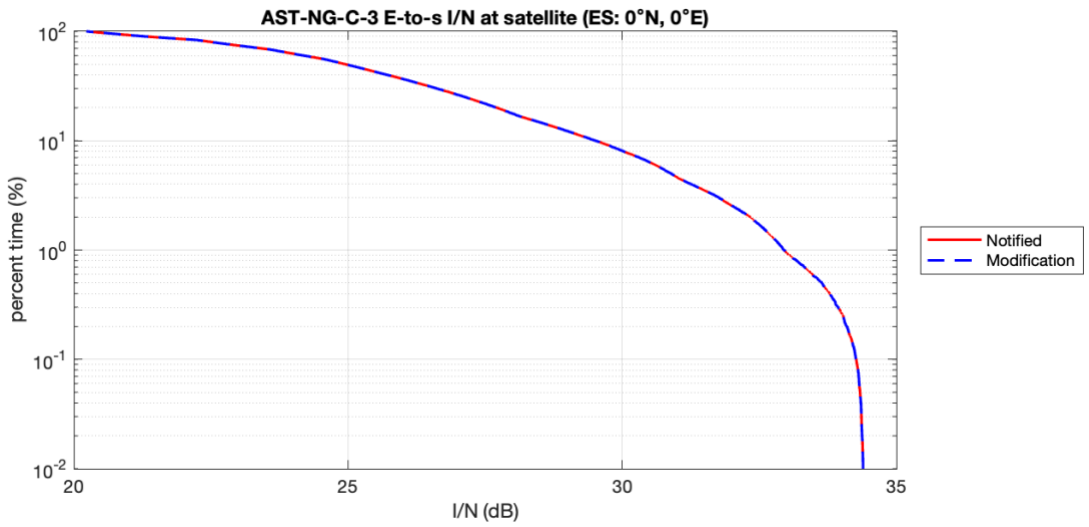
I/N CDF Plots

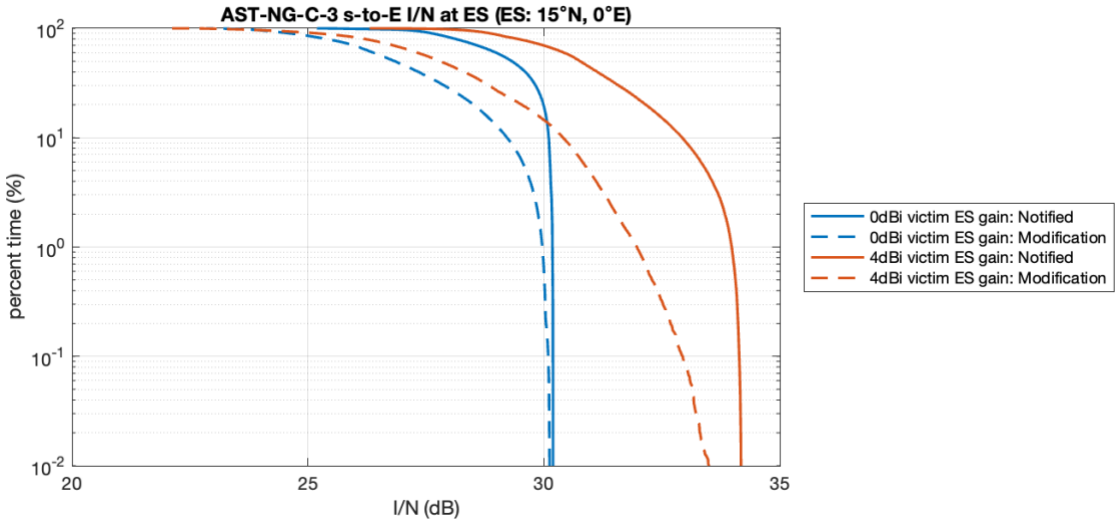

A4NG-C s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
22.8dBi victim ES gain: Notified
22.8dBi victim ES gain: Modification
A4NG-C s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
22.8dBi victim ES gain: Notified
22.8dBi victim ES gain: Modification
A4NG-C s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
22.8dBi victim ES gain: Notified
22.8dBi victim ES gain: Modification

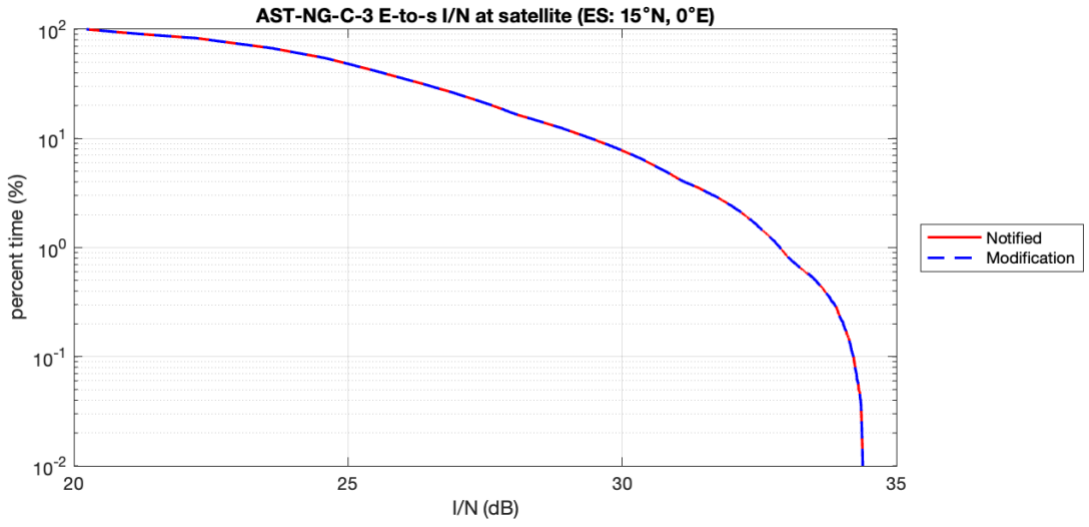

A4NG-C s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
22.8dBi victim ES gain: Notified
22.8dBi victim ES gain: Modification

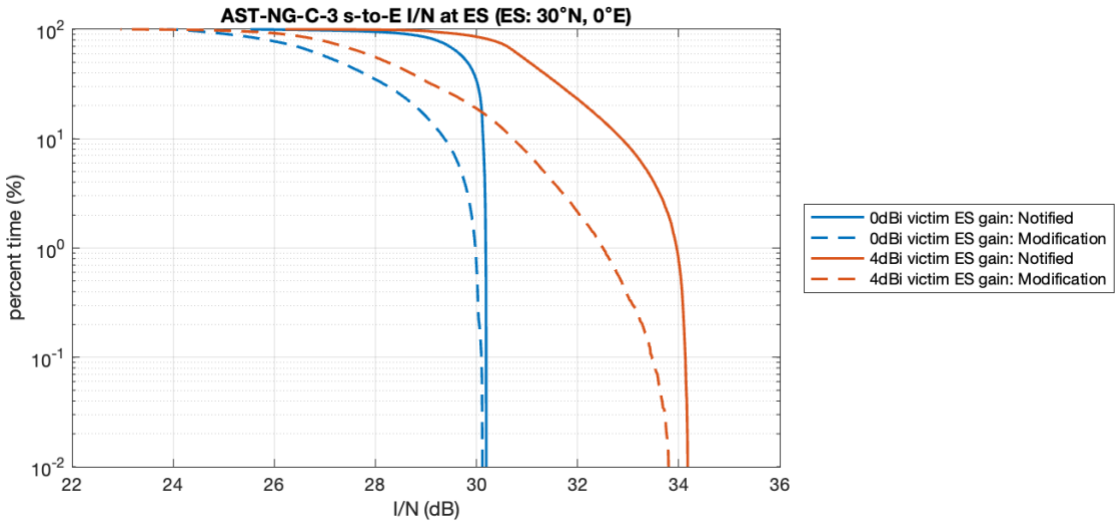

A4NG-C s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
22.8dBi victim ES gain: Notified
22.8dBi victim ES gain: Modification

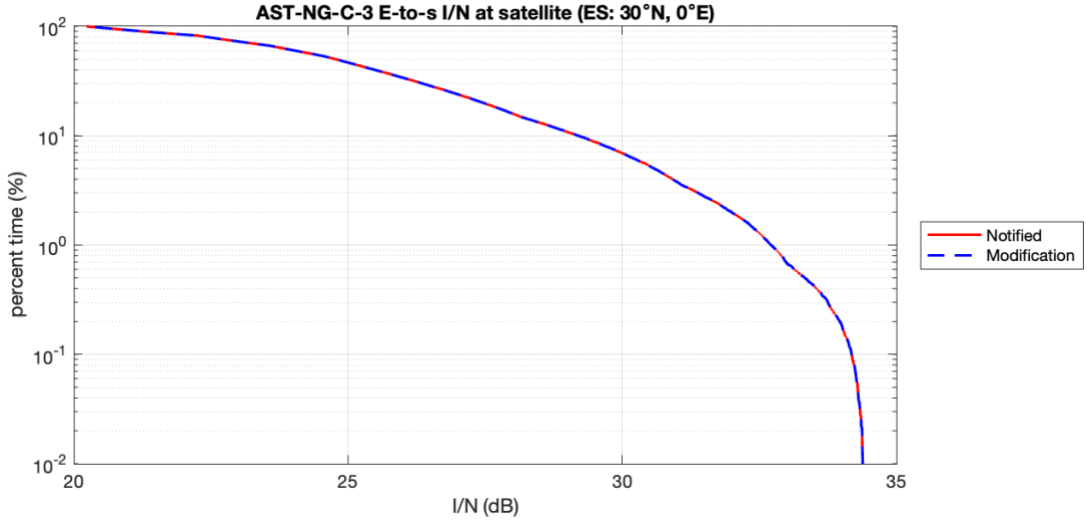

AST-NG-C-3 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

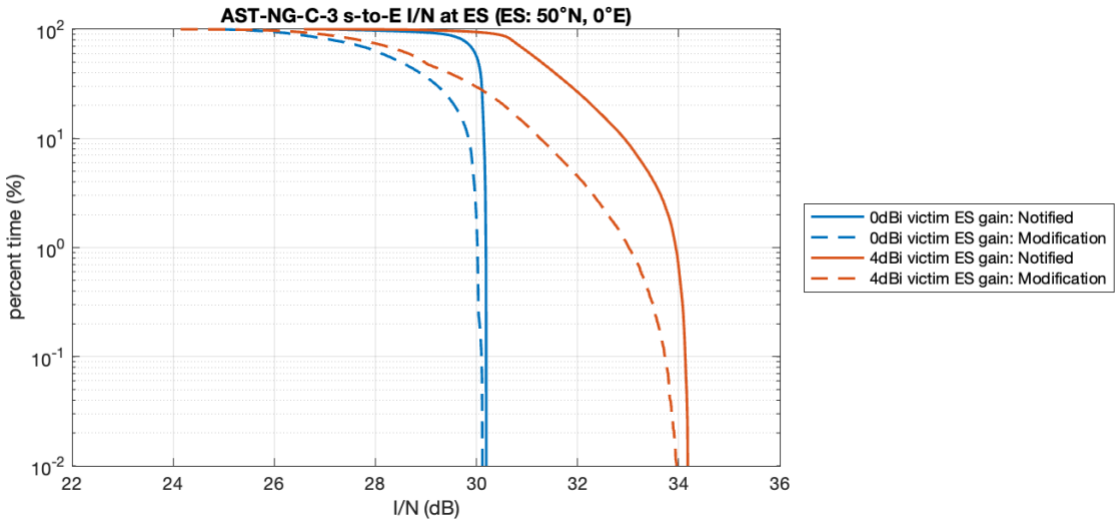

AST-NG-C-3 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

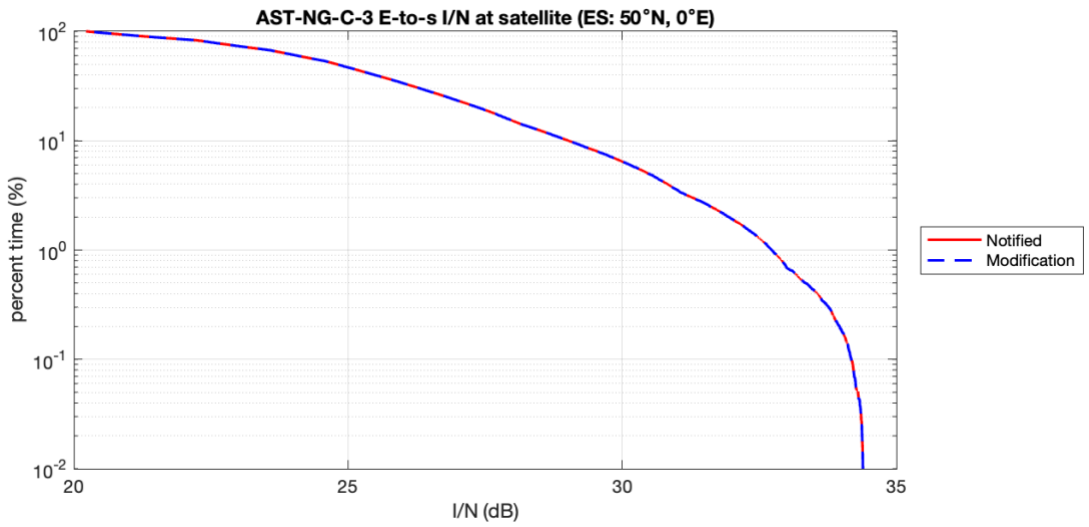

AST-NG-C-3 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

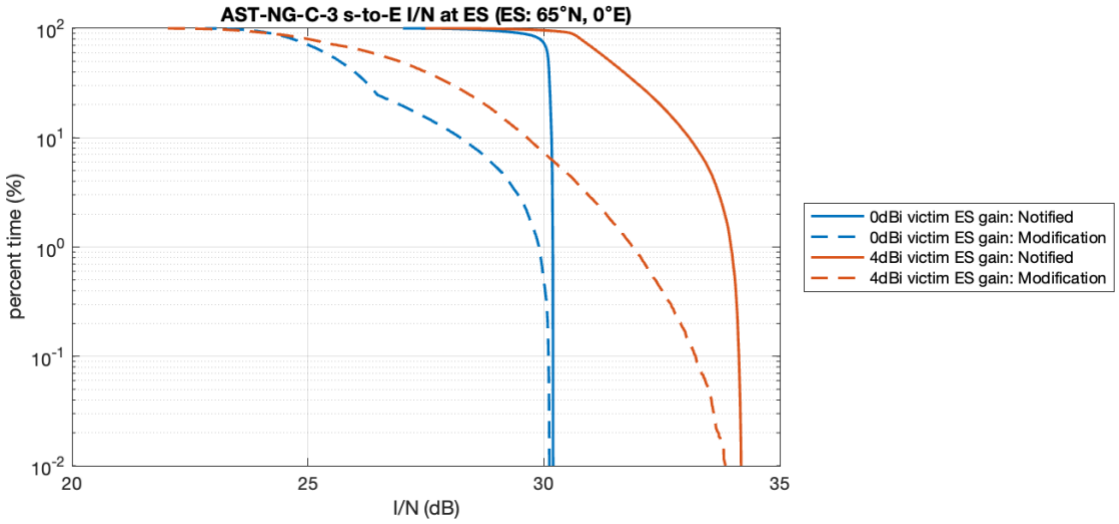

AST-NG-C-3 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

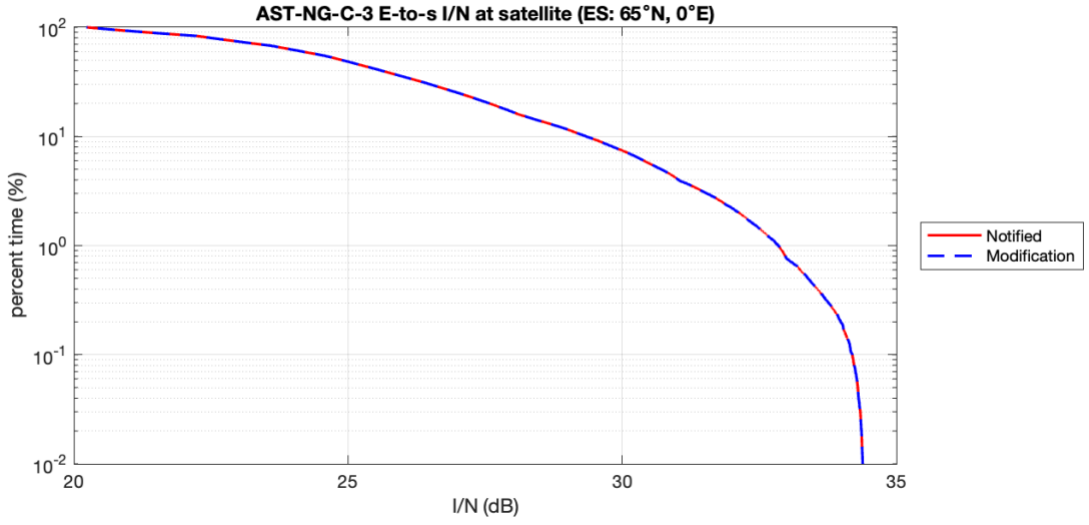

AST-NG-C-3 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

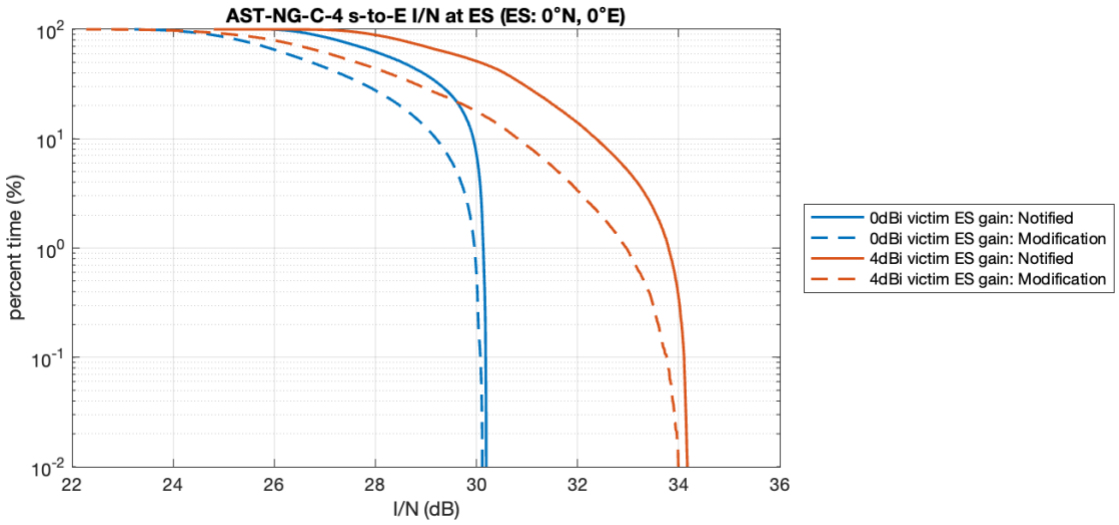

AST-NG-C-3 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

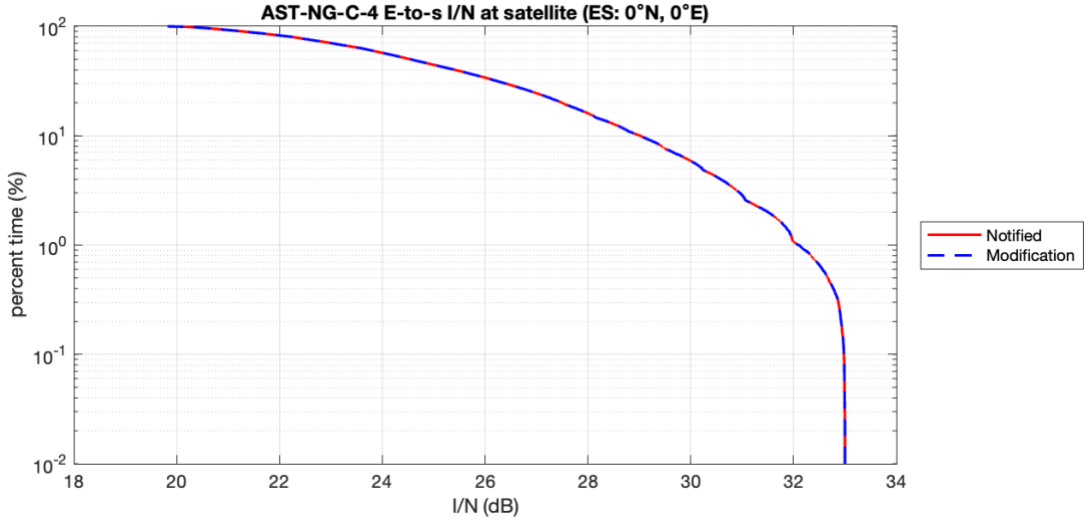

AST-NG-C-3 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

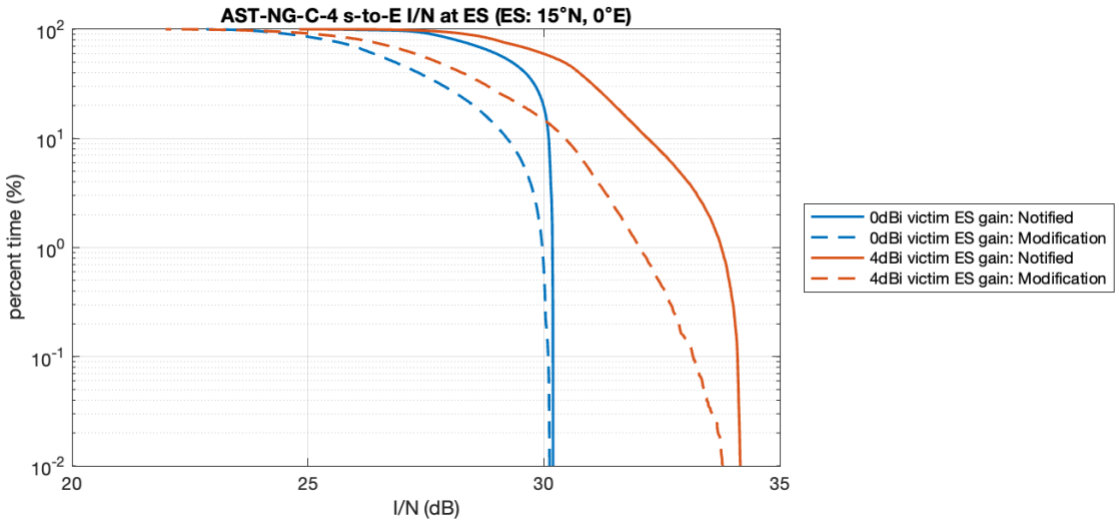

AST-NG-C-3 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

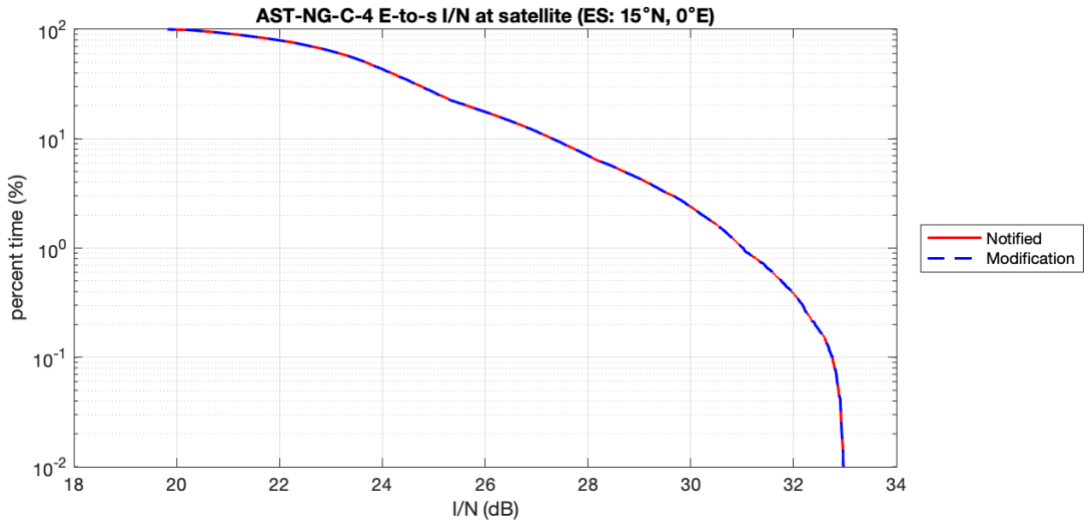

AST-NG-C-3 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

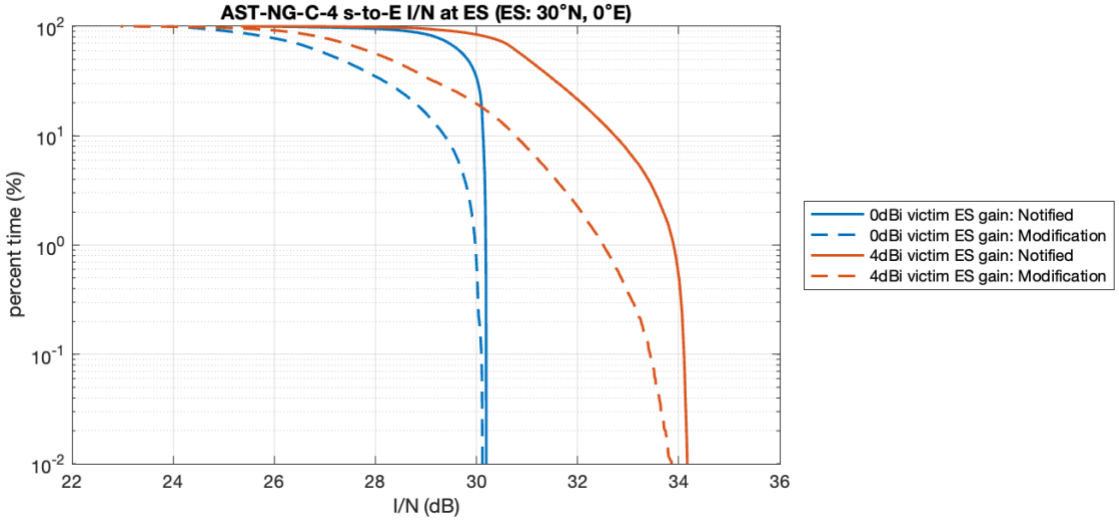

AST-NG-C-3 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

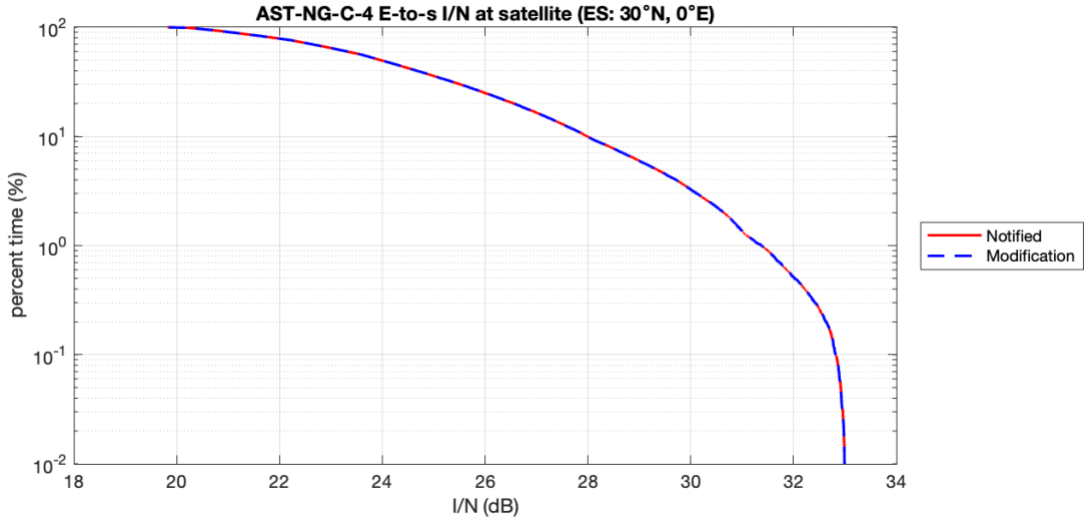

AST-NG-C-4 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

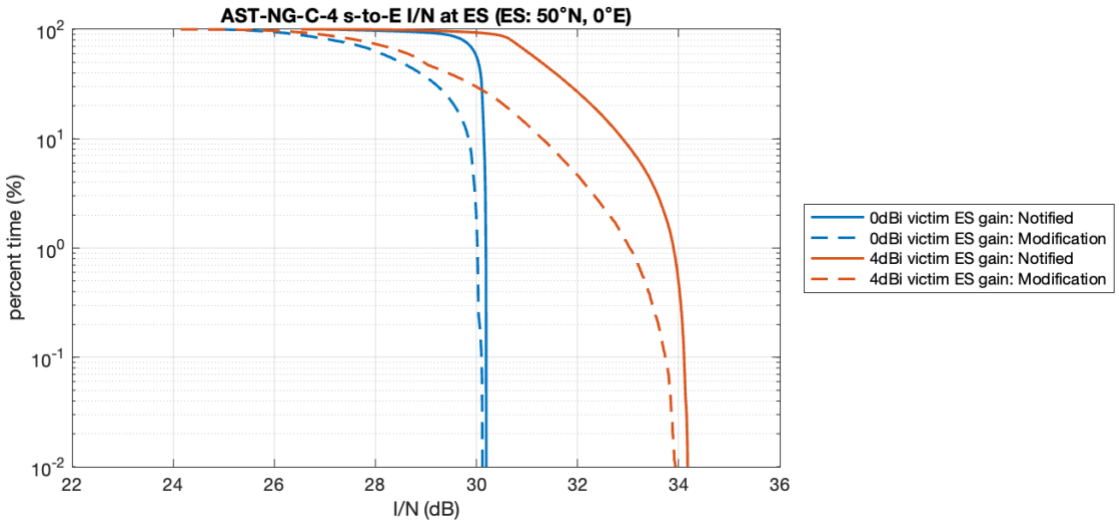

AST-NG-C-4 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

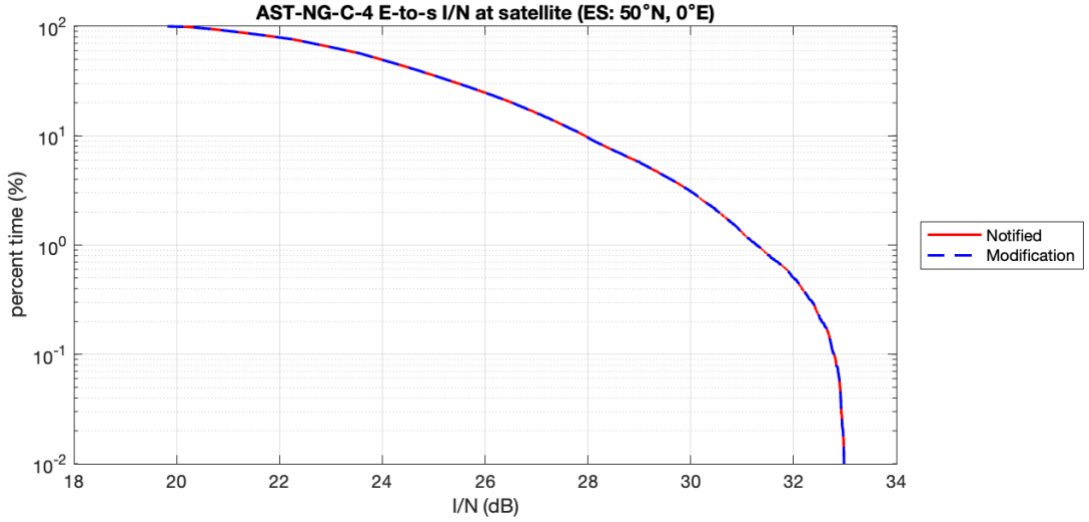

AST-NG-C-4 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

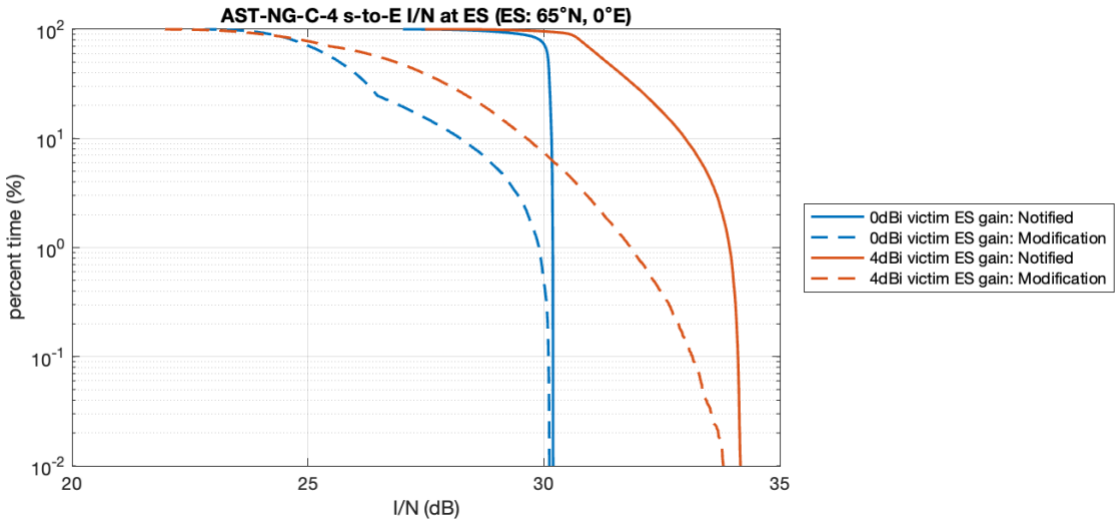

AST-NG-C-4 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

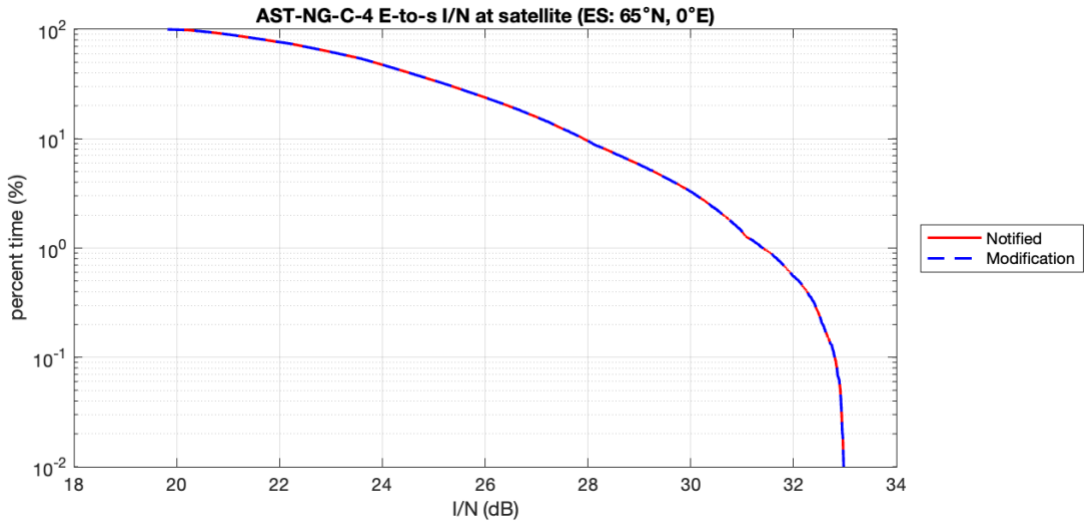

AST-NG-C-4 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

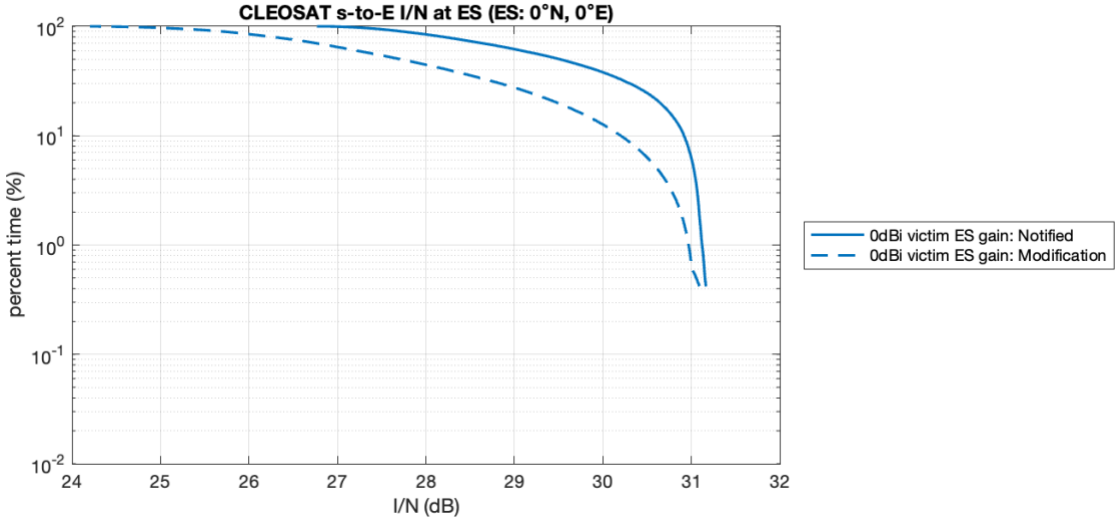

AST-NG-C-4 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

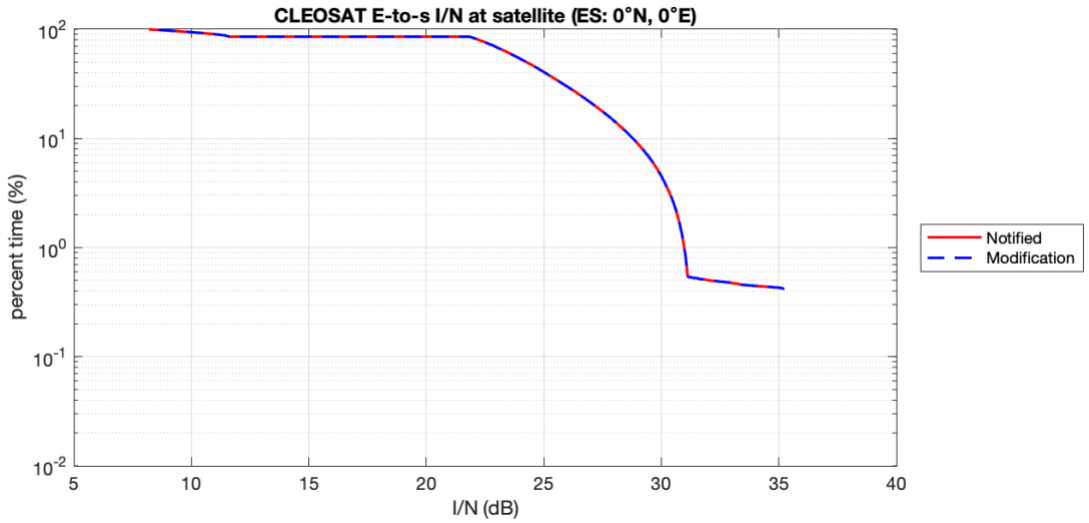

AST-NG-C-4 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

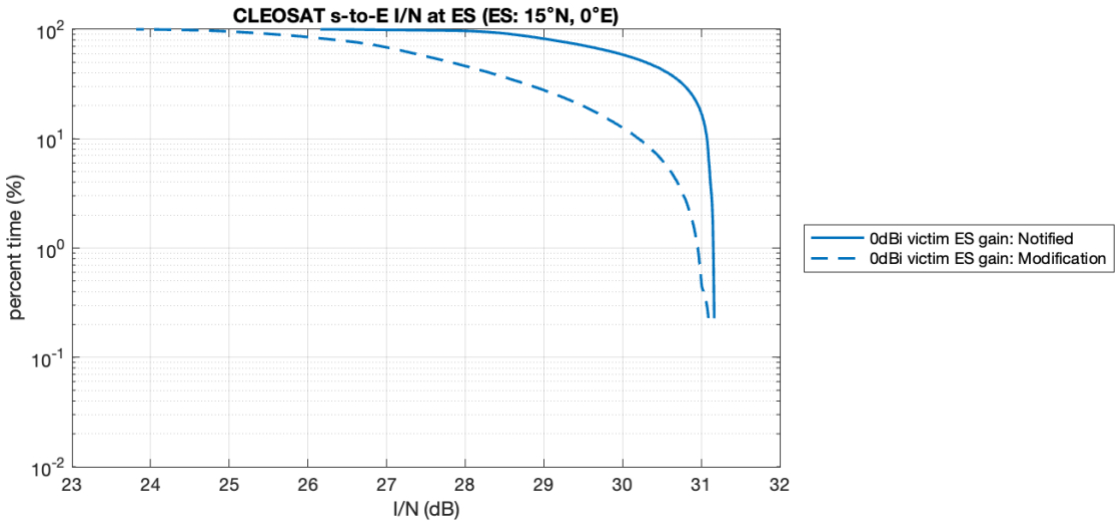

AST-NG-C-4 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

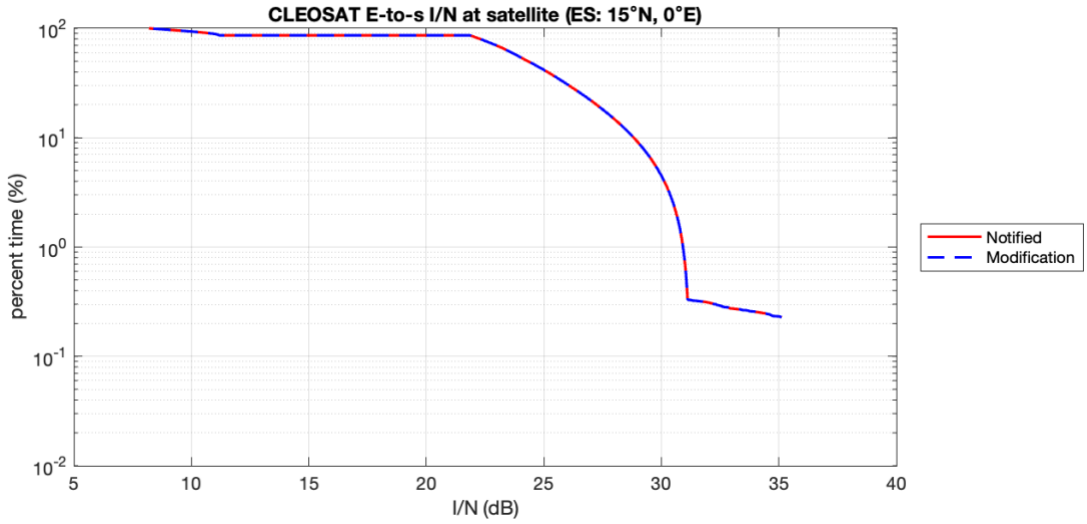

AST-NG-C-4 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

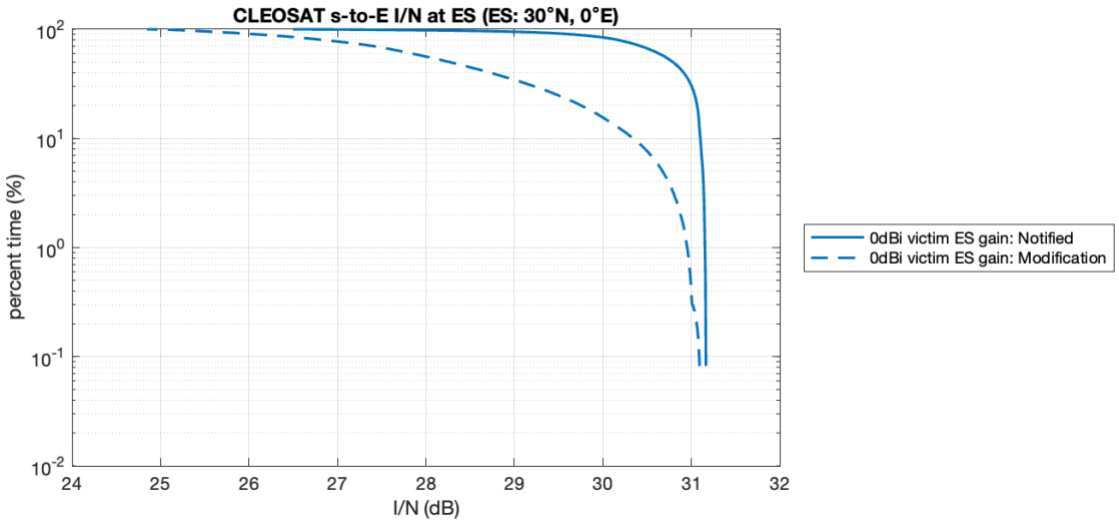

AST-NG-C-4 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

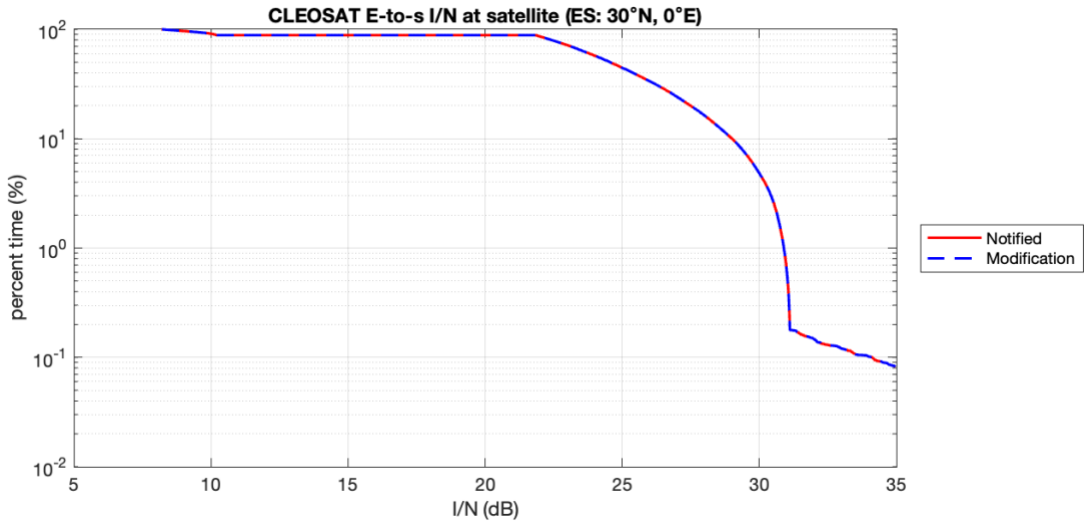

CLEOSAT s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

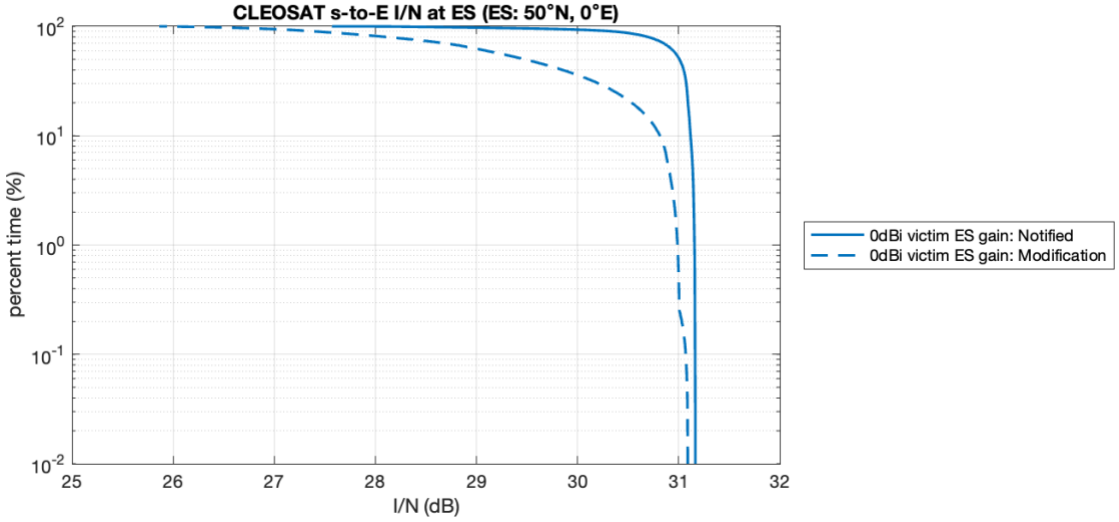

CLEOSAT E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

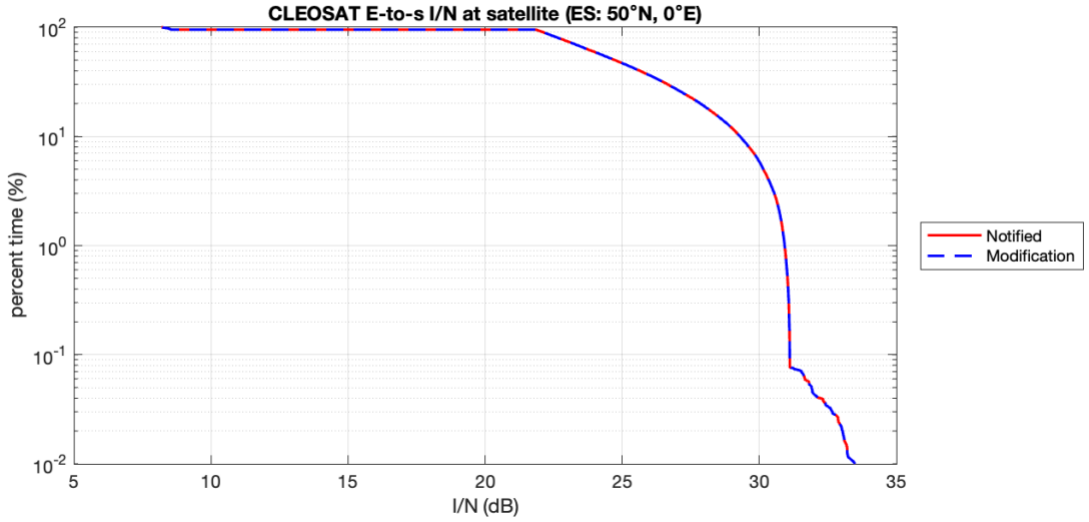

CLEOSAT s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

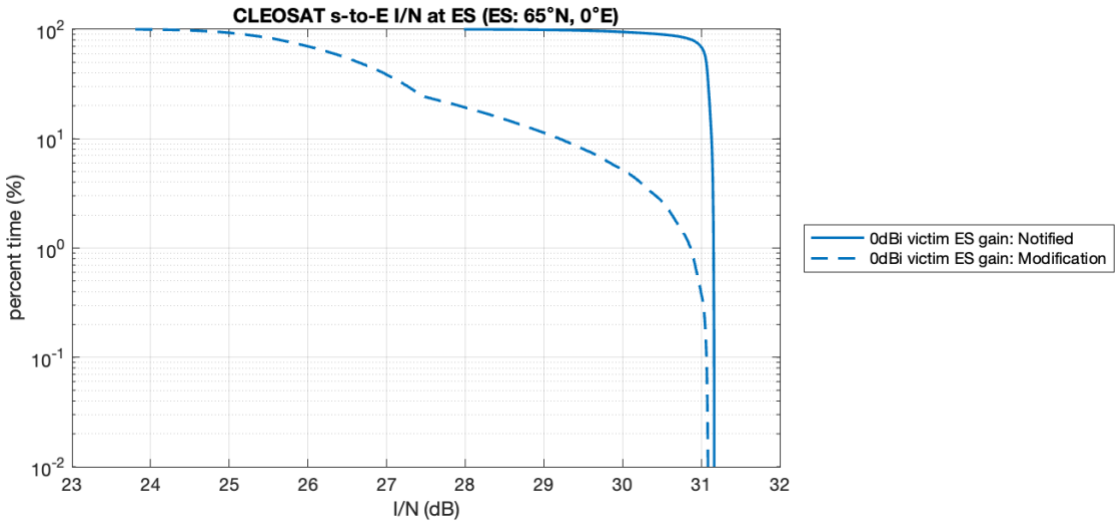

CLEOSAT E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

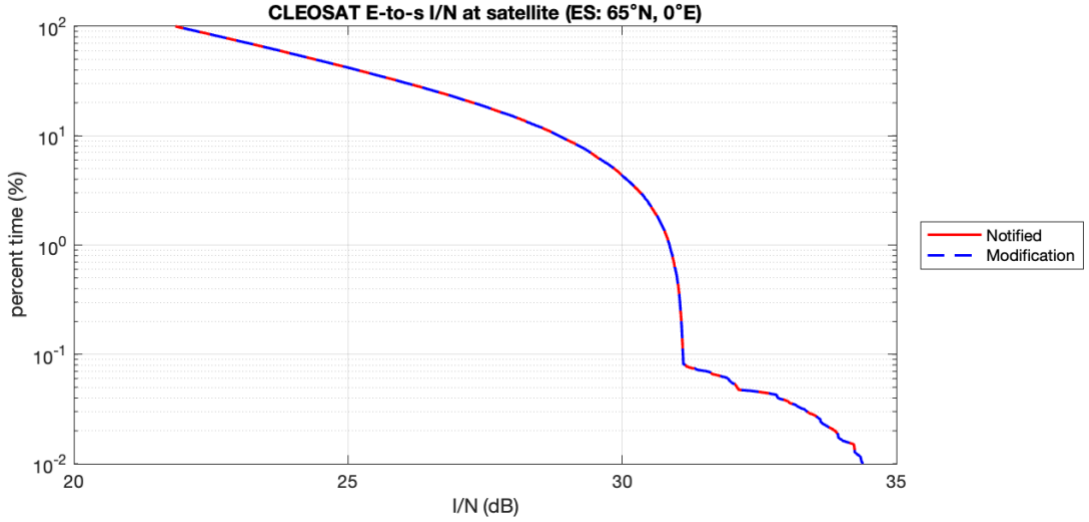

CLEOSAT s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

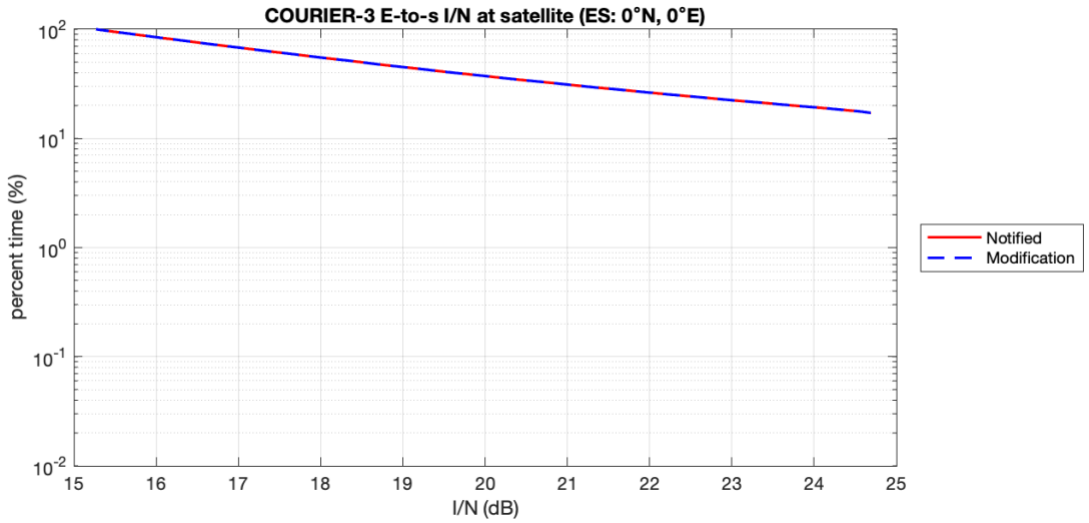

CLEOSAT E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

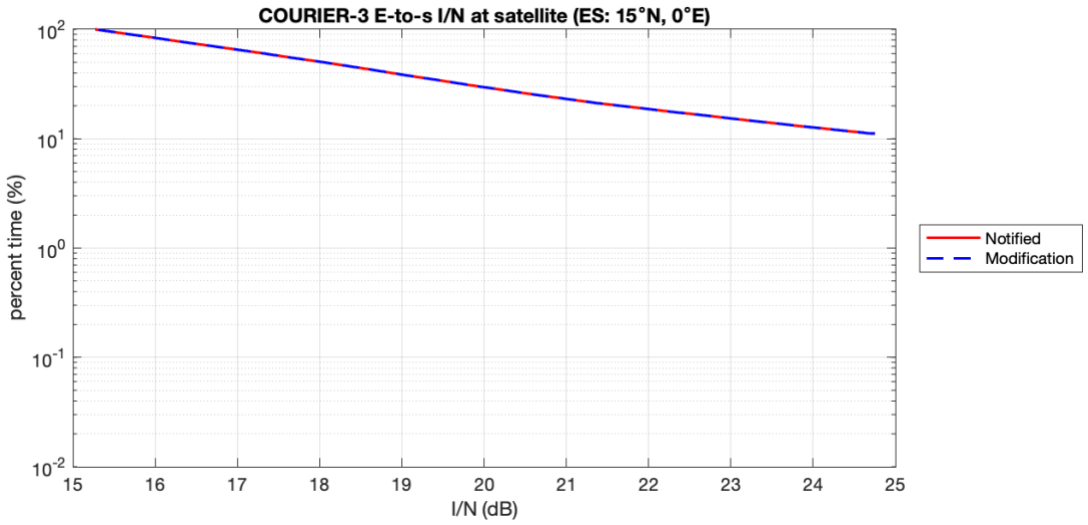

CLEOSAT s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

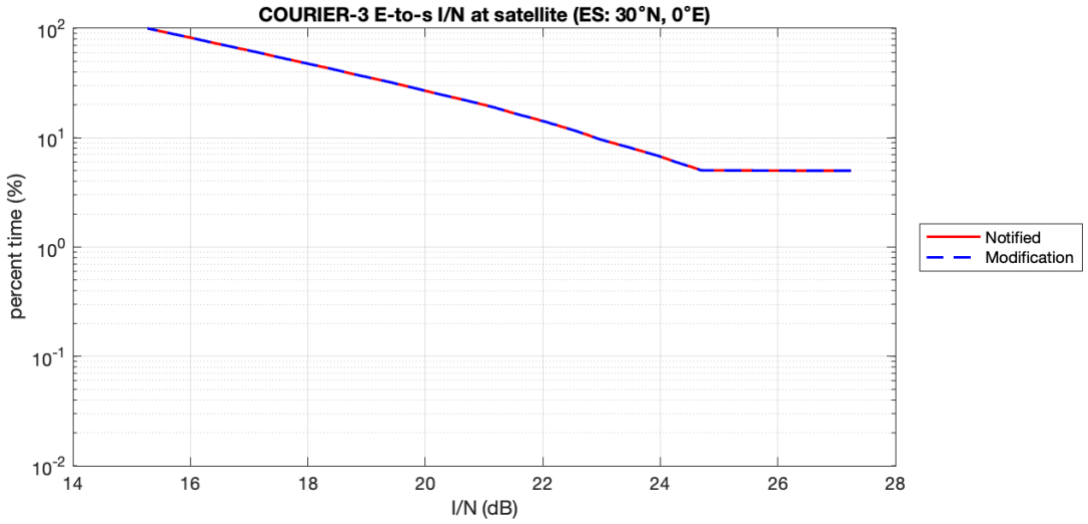

CLEOSAT E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

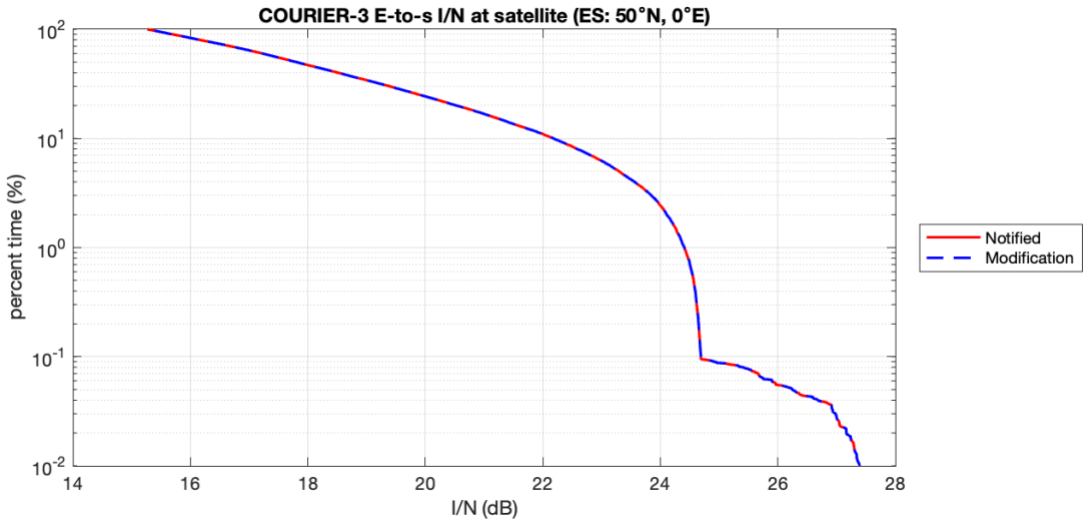

CLEOSAT s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

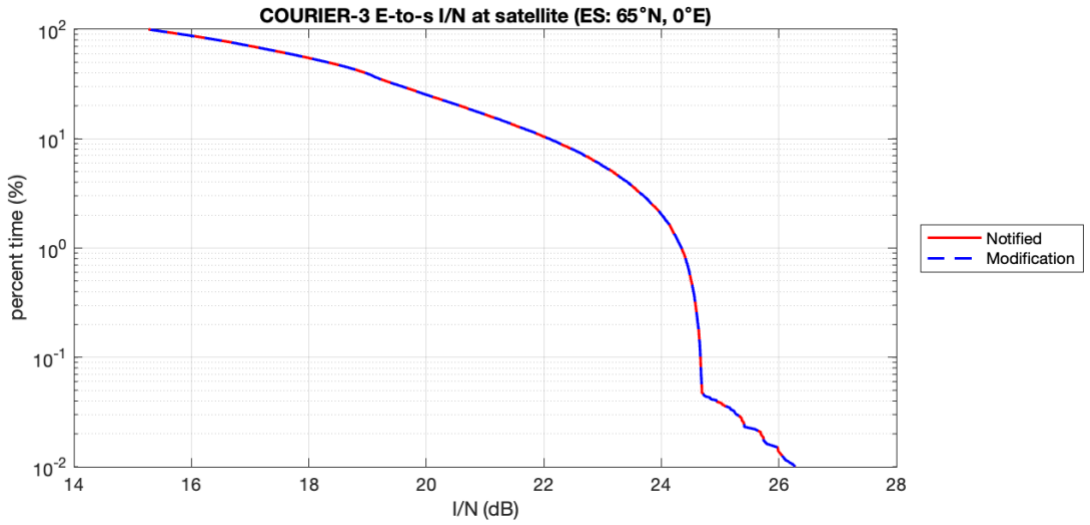

CLEOSAT E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

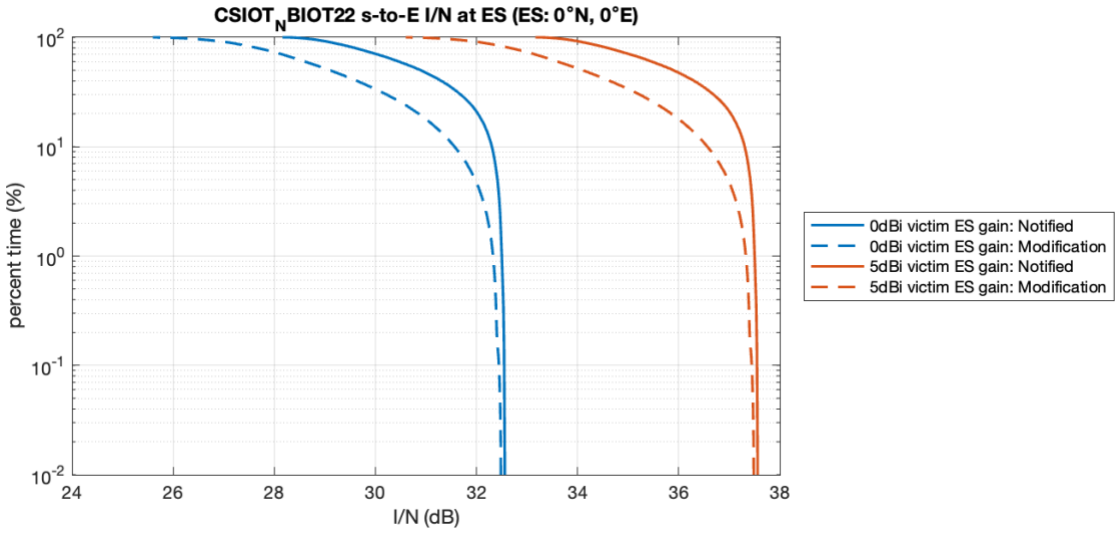

COURIER-3 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

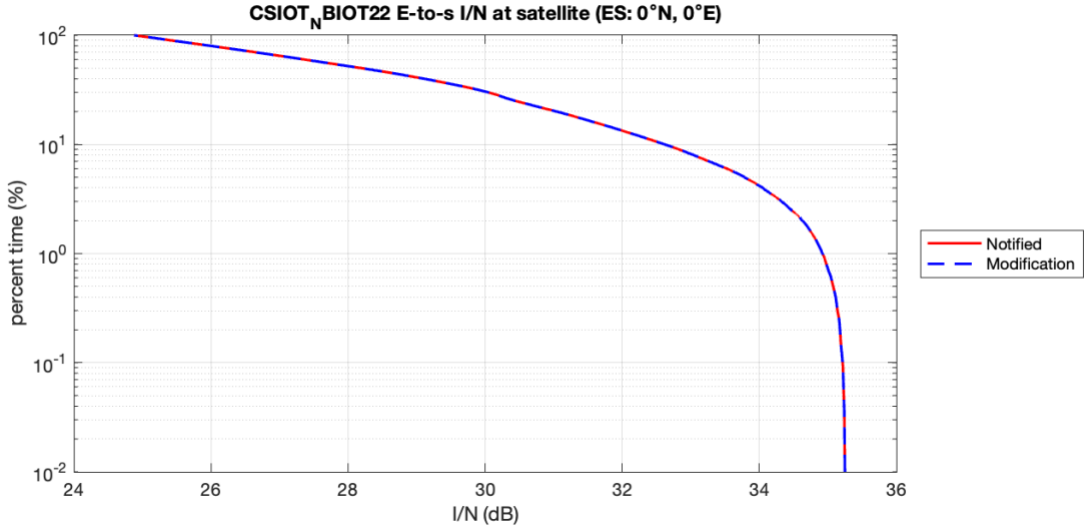

COURIER-3 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

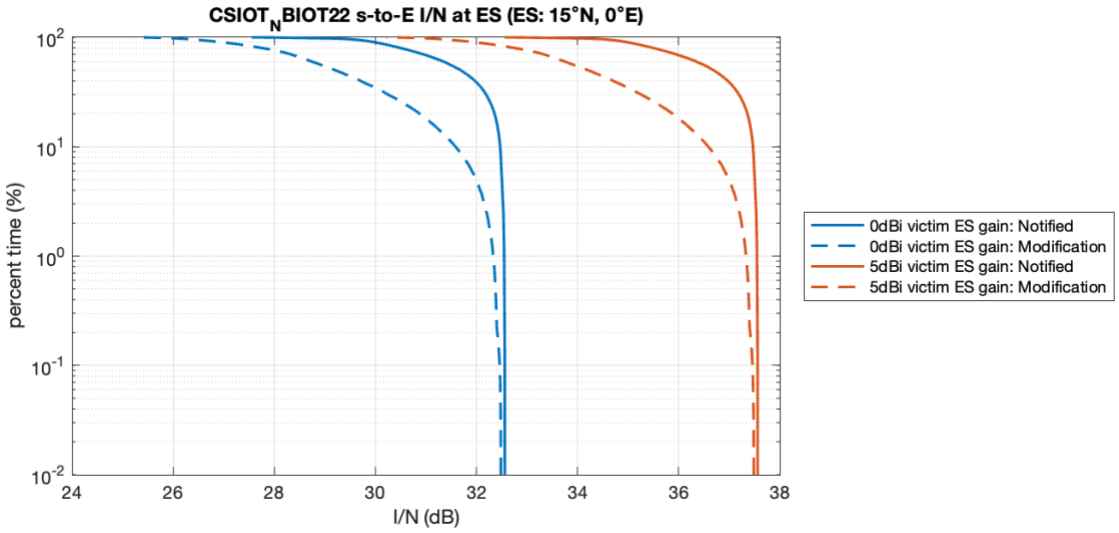

COURIER-3 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

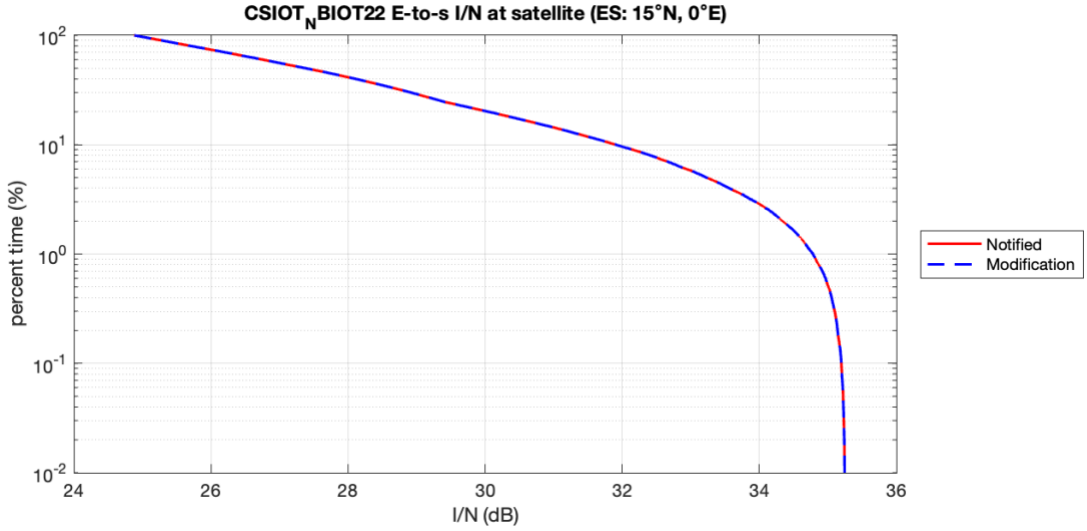

COURIER-3 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

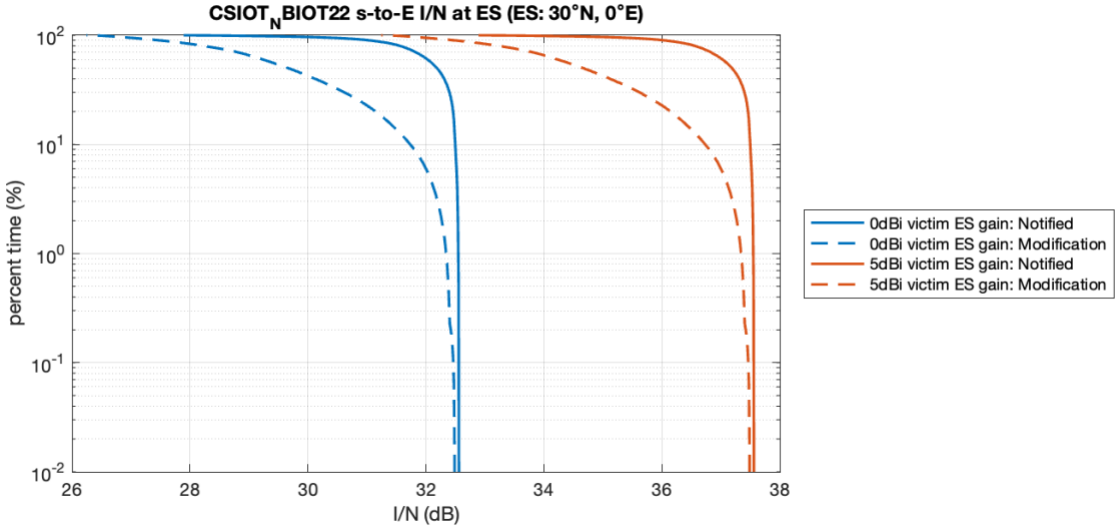

COURIER-3 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

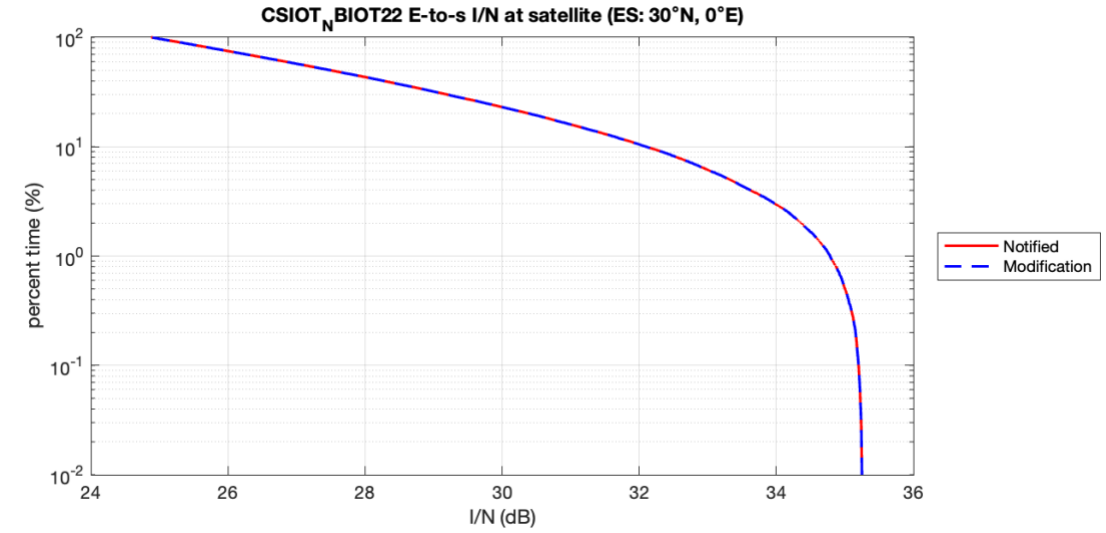

CSIOT$_N$BIOT22 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

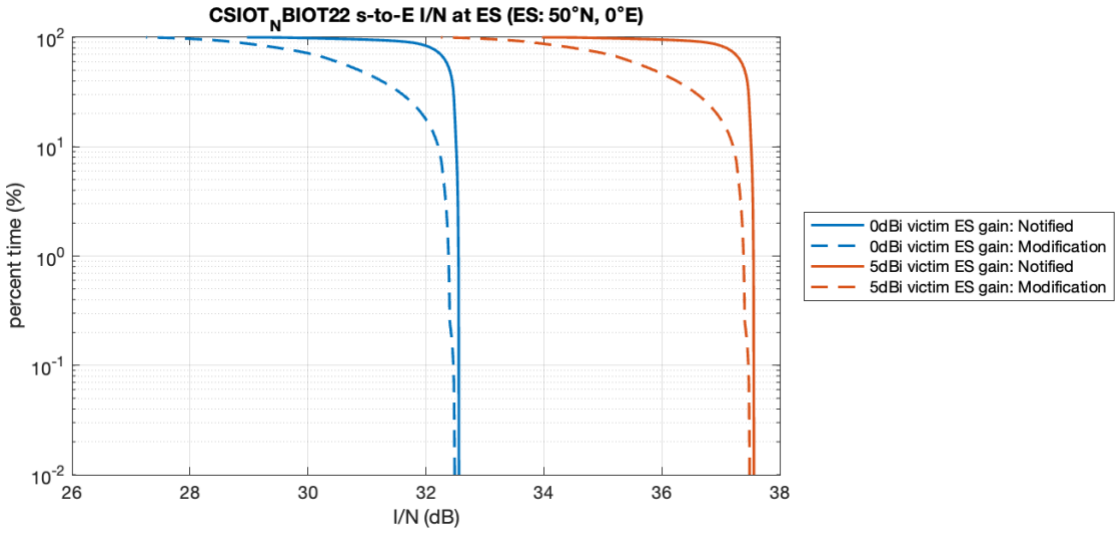

CSIOT$_N$BIOT22 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

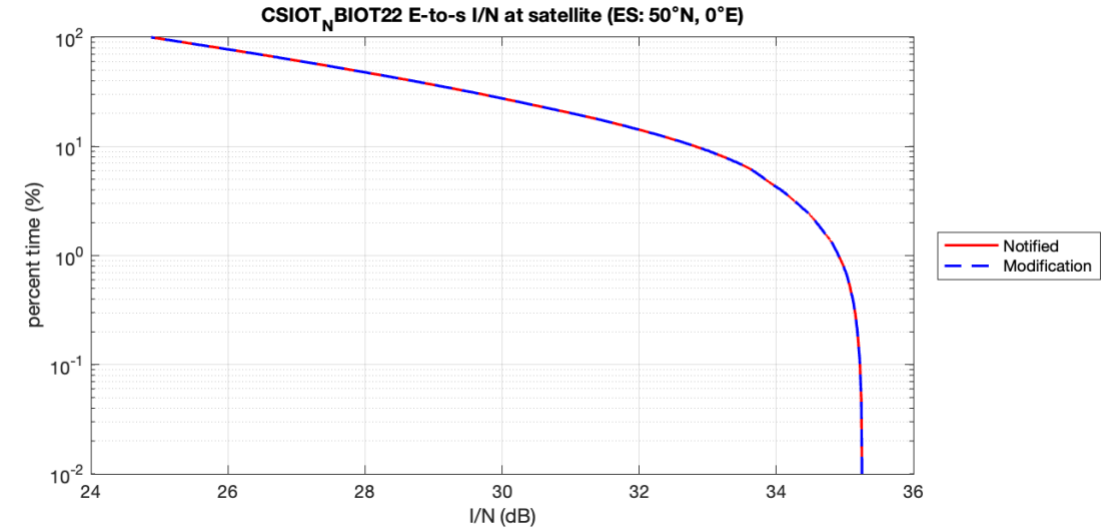

CSIOT_NBIOT22 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

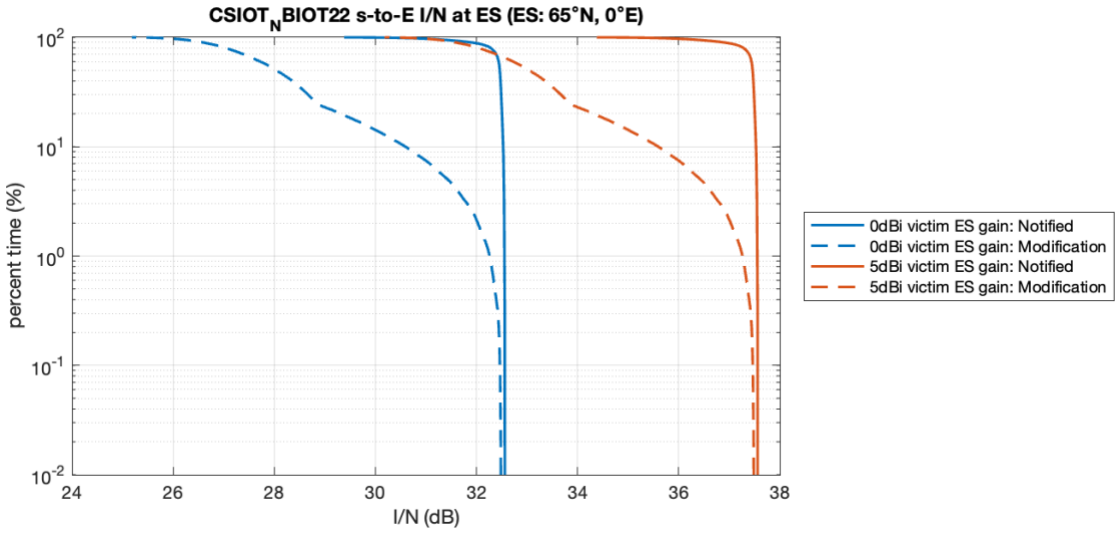

CSIOT_NBIOT22 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

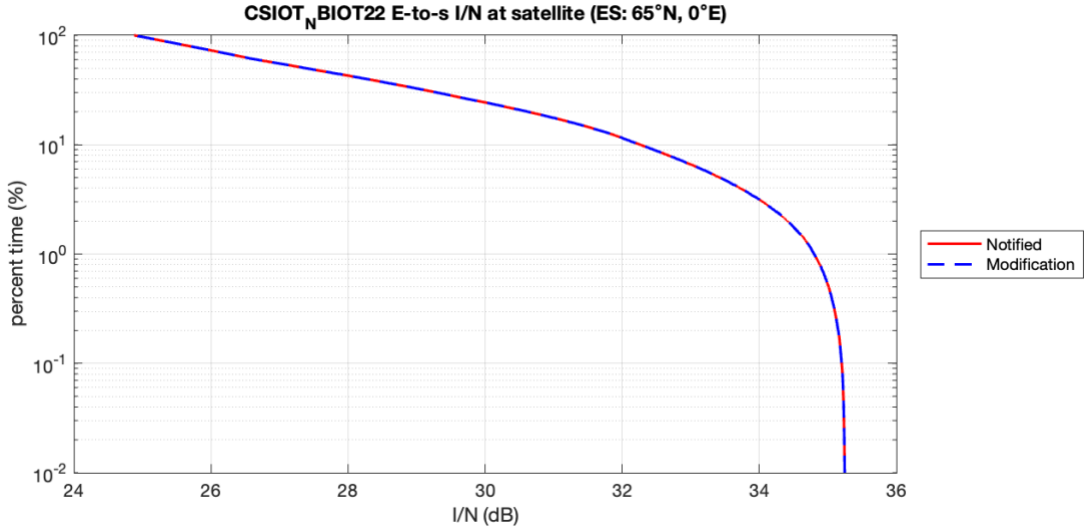

CSIOT_NBIOT22 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

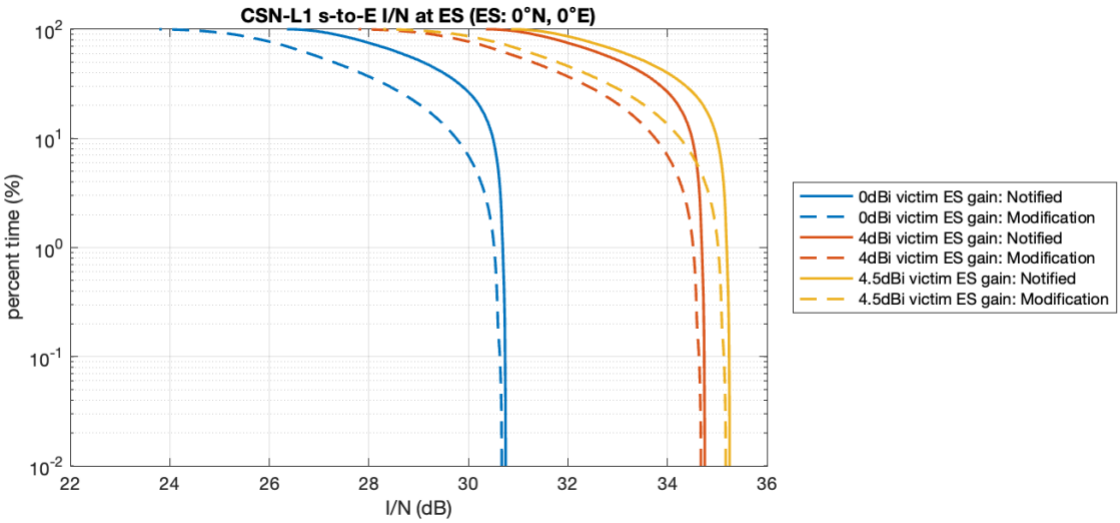

CSIOT_NBIOT22 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

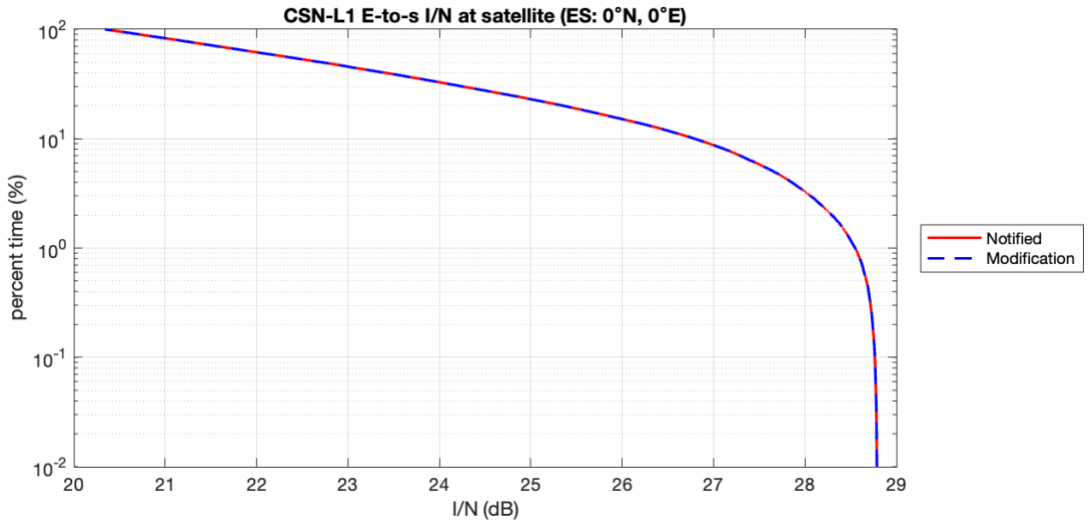

CSIOT_NBIOT22 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

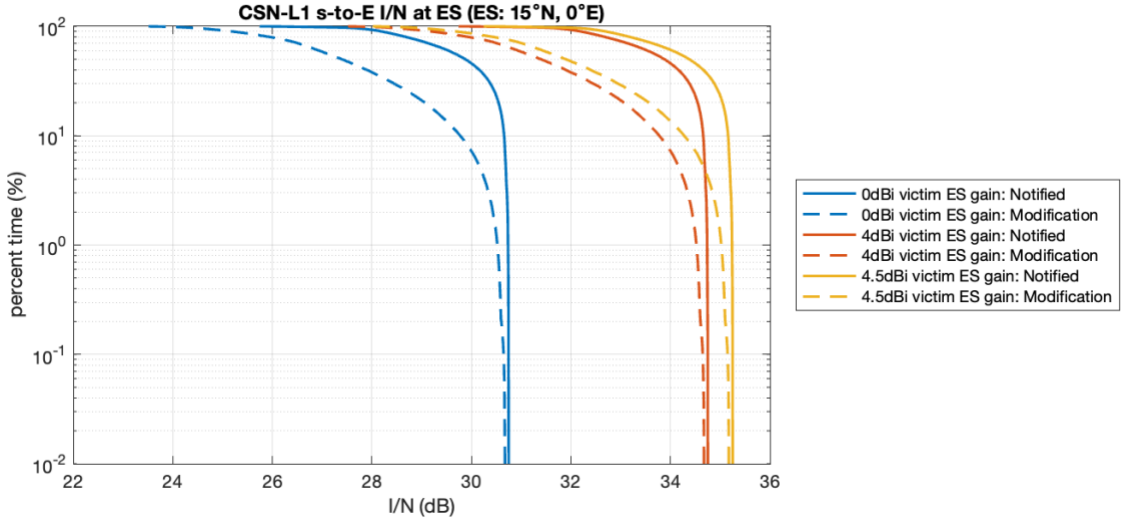

CSIOT_NBIOT22 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

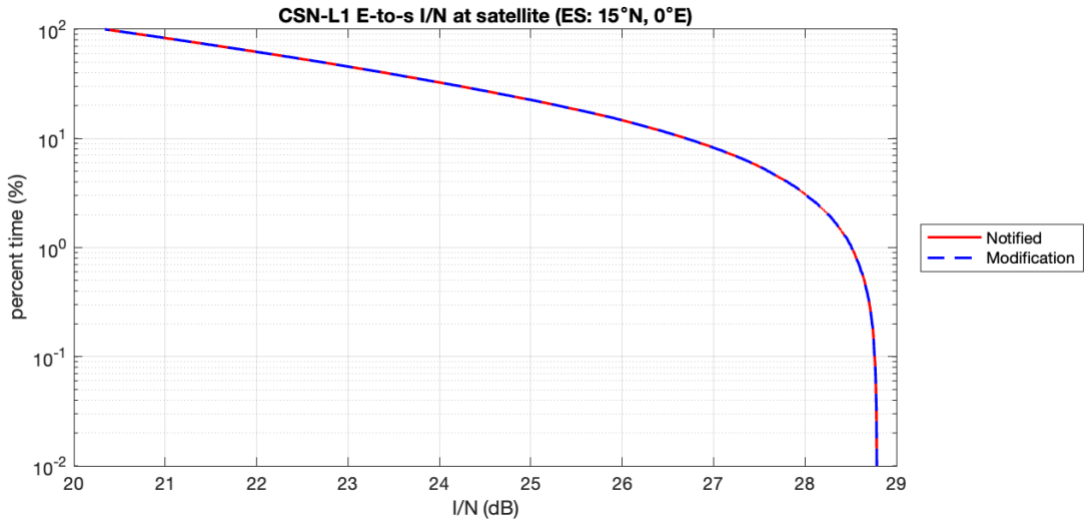

CSIOT_NBIOT22 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

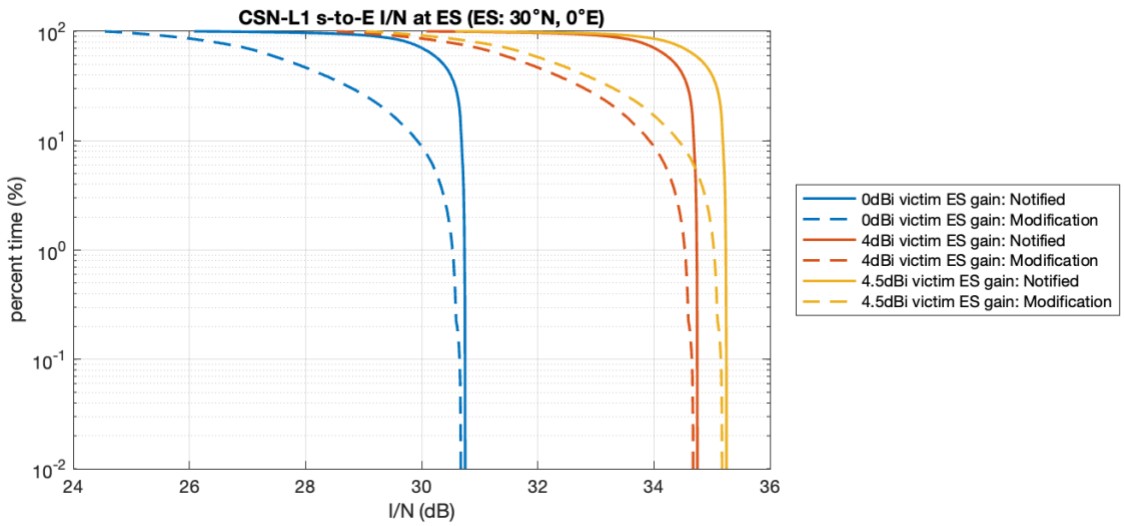

CSIOT_NBIOT22 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

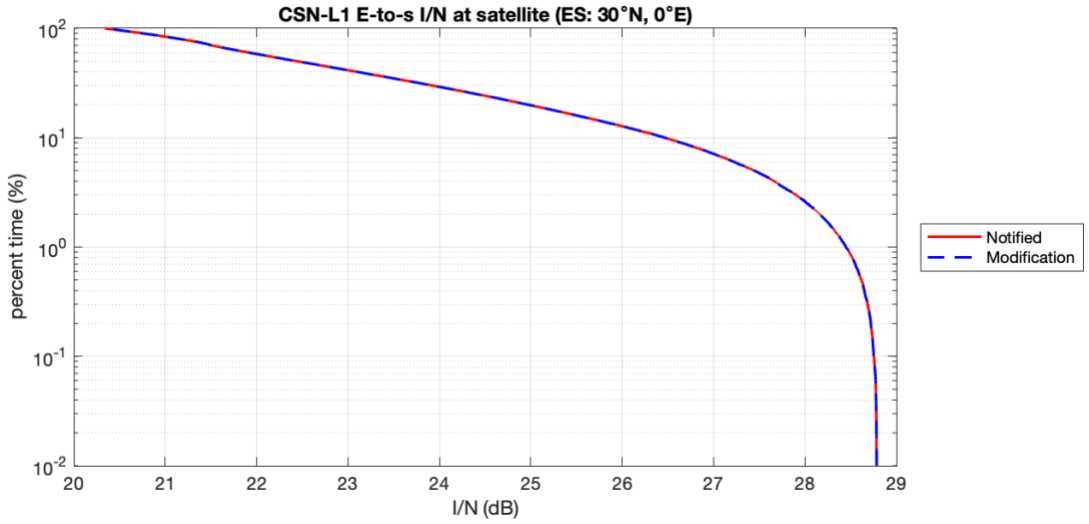

CSN-L1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

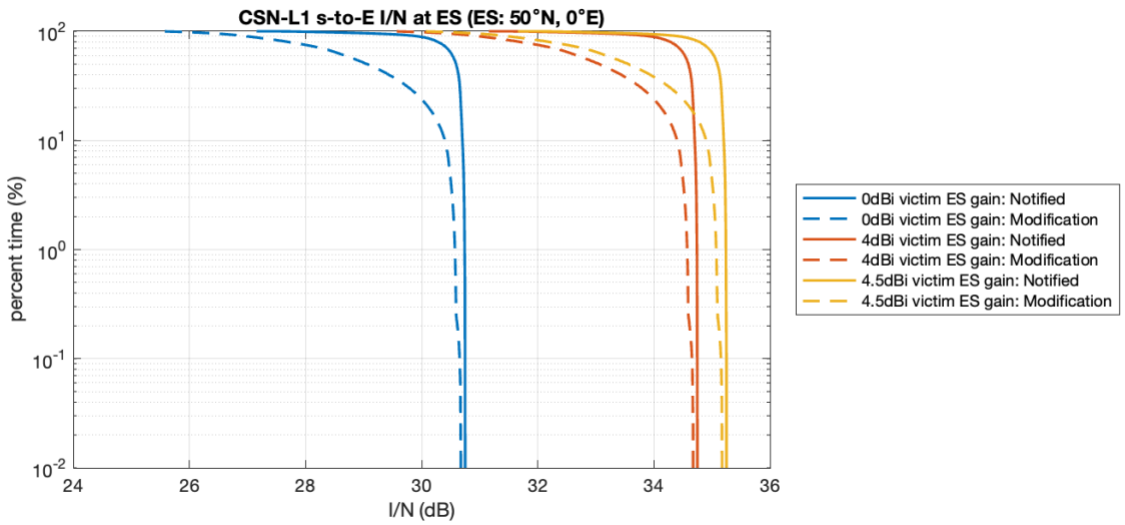

CSN-L1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

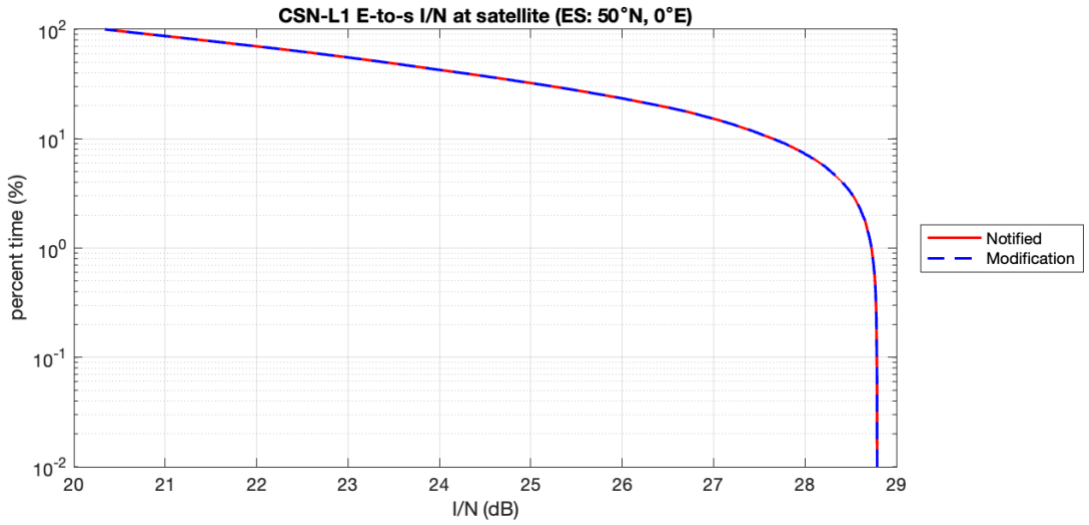

CSN-L1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

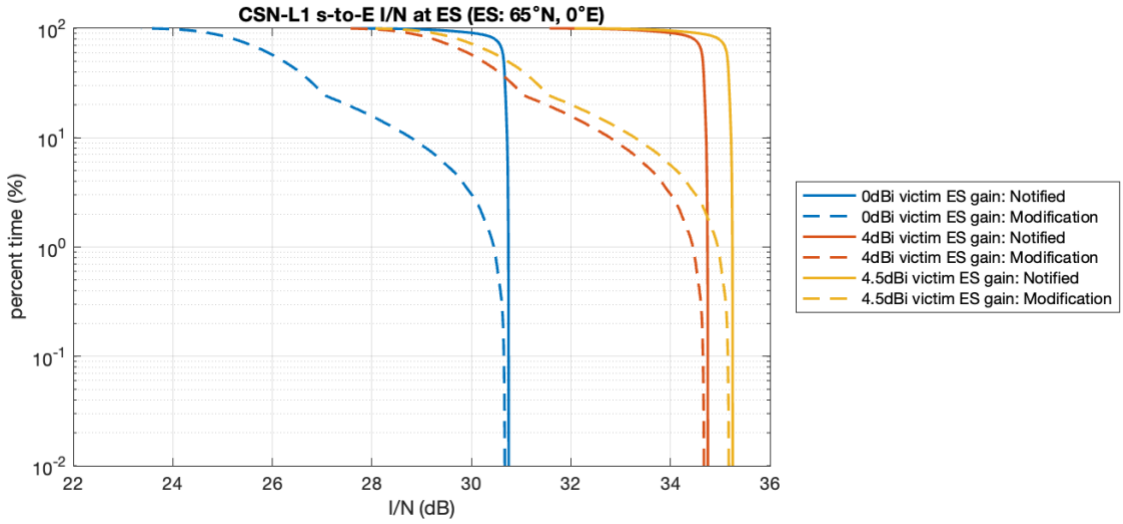

CSN-L1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

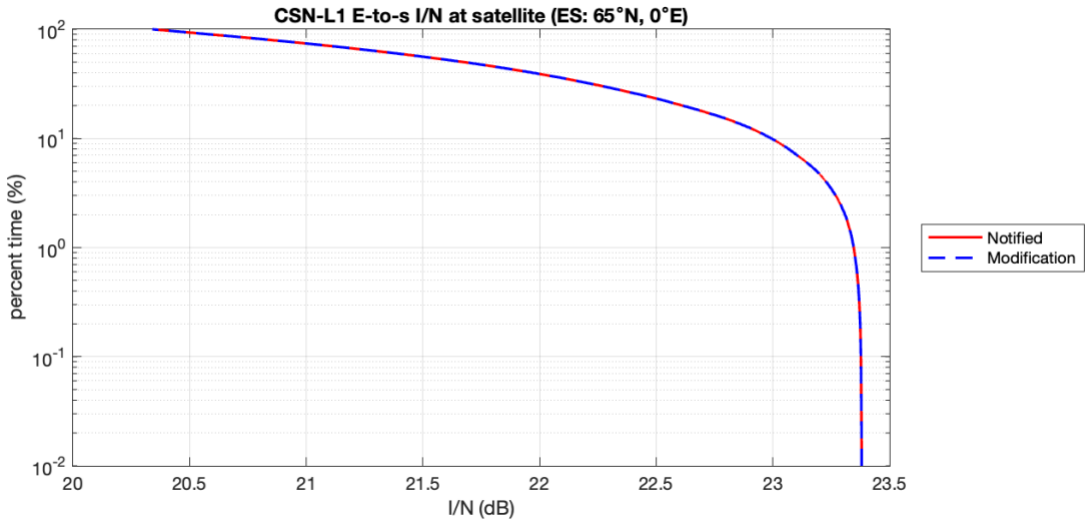

CSN-L1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

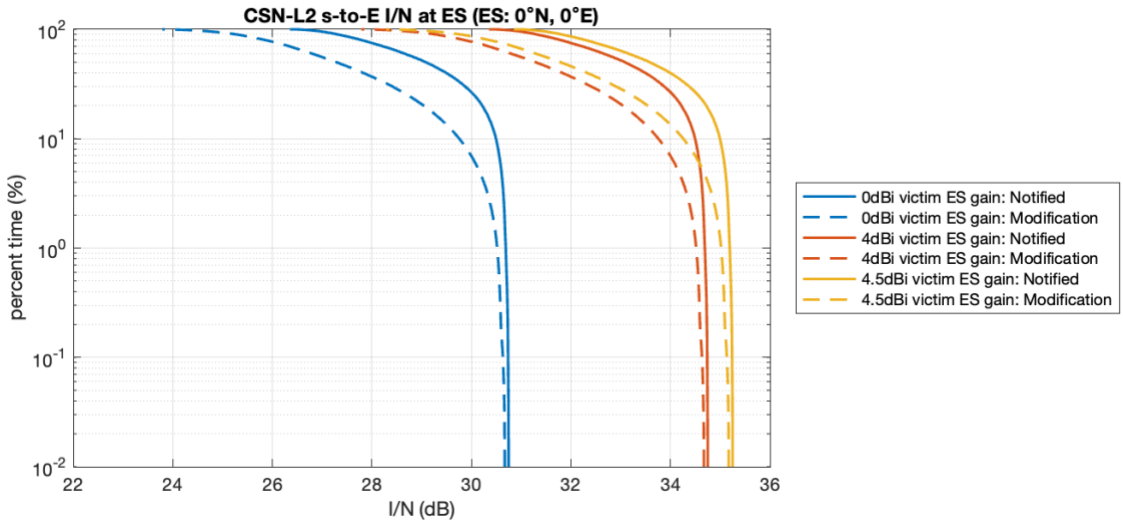

CSN-L1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

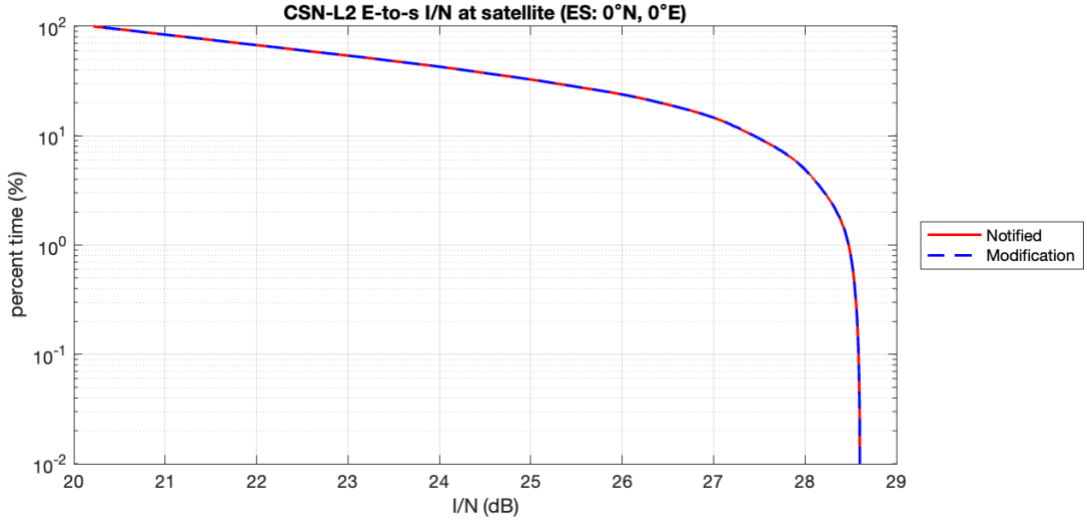

CSN-L1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

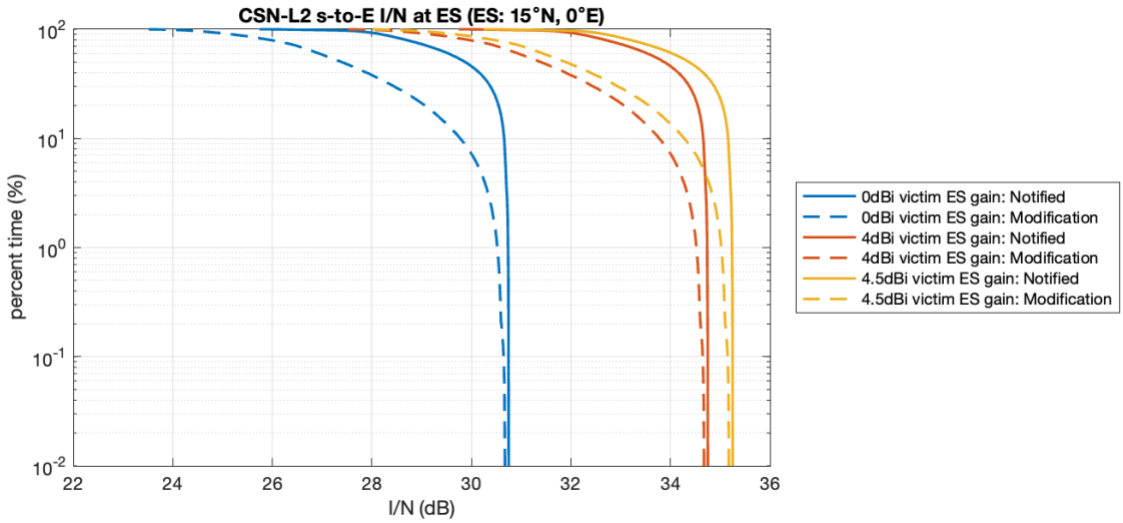

CSN-L1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

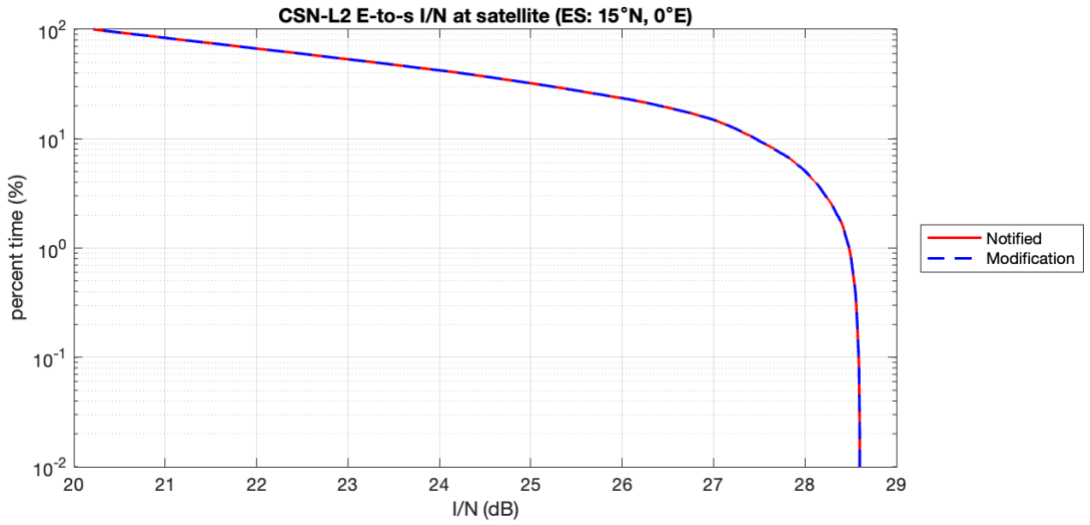

CSN-L1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

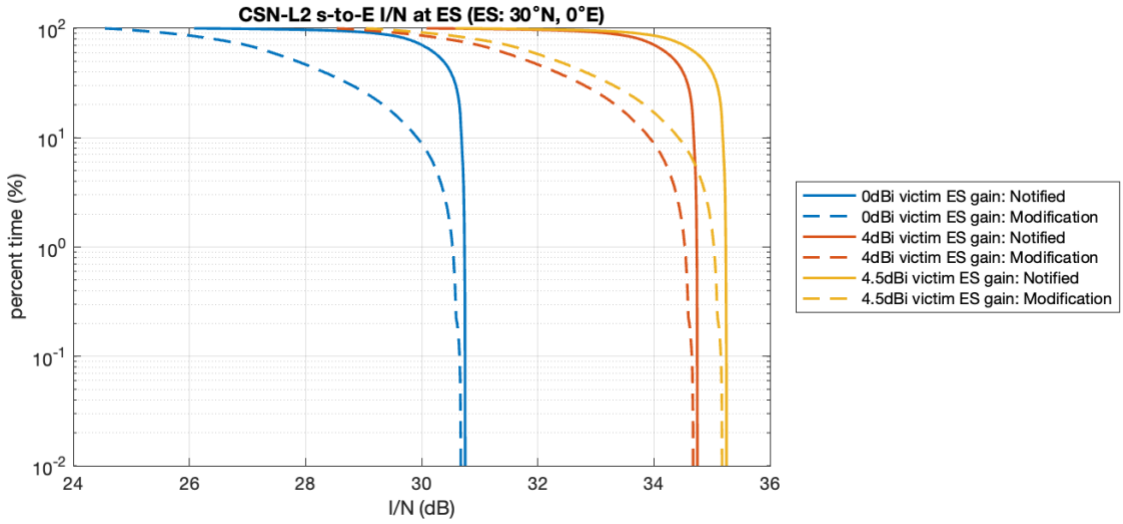

CSN-L1 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

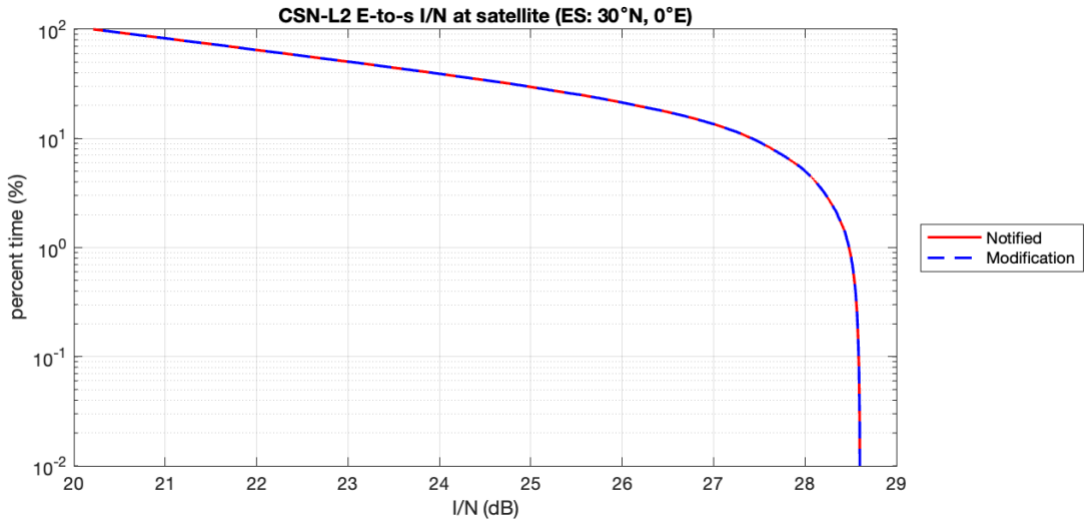

CSN-L2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

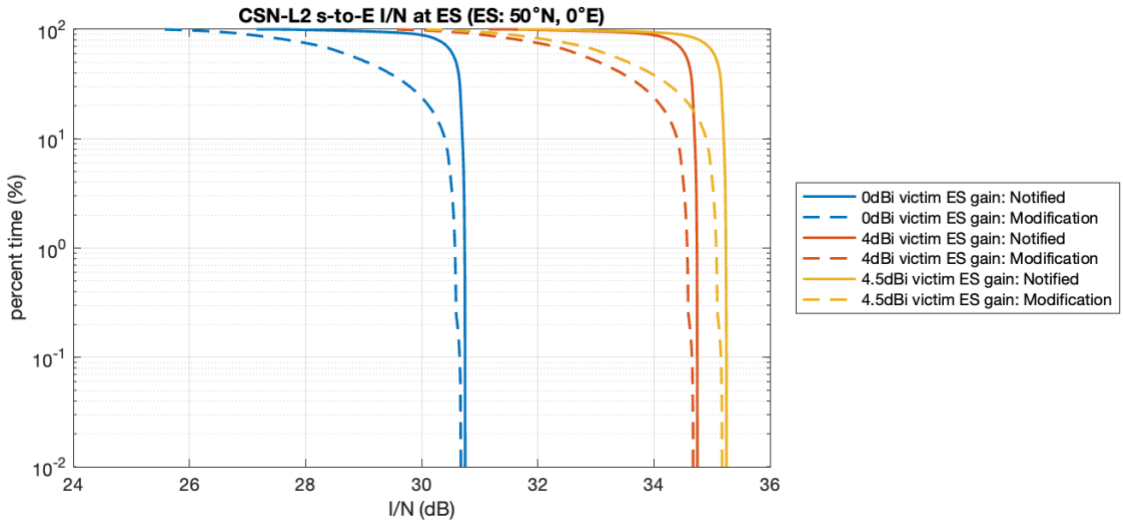

CSN-L2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

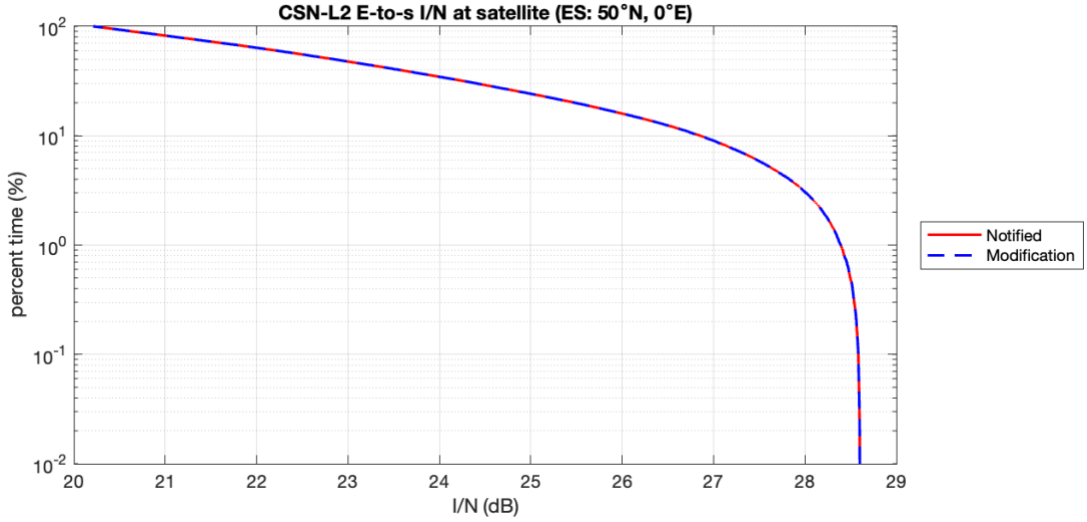

CSN-L2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

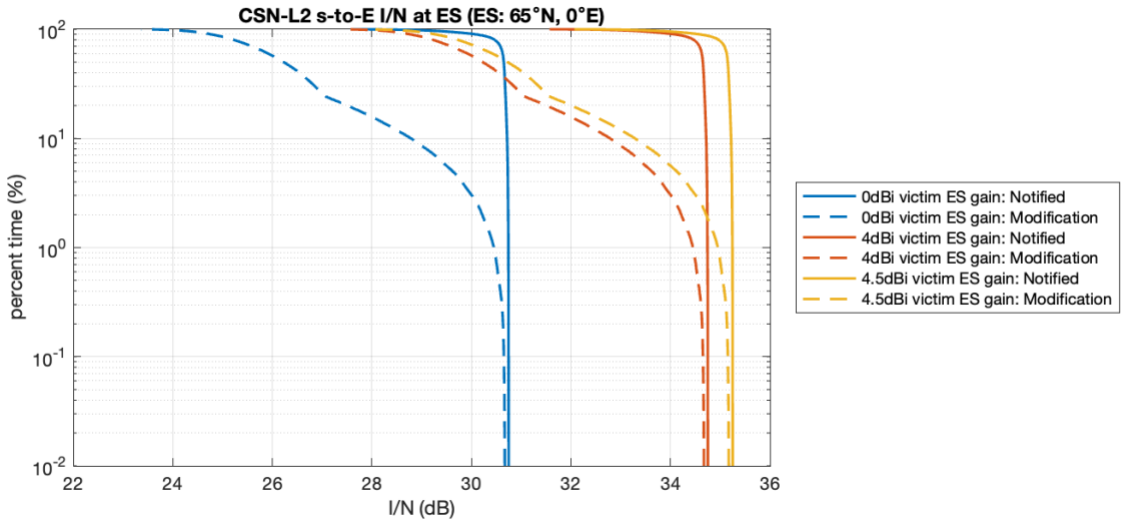

CSN-L2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

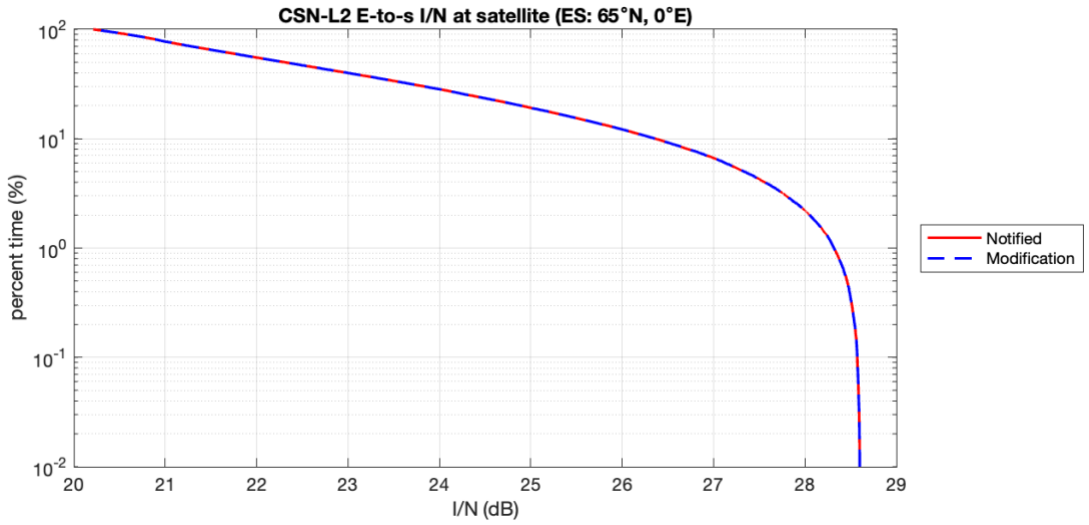

CSN-L2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

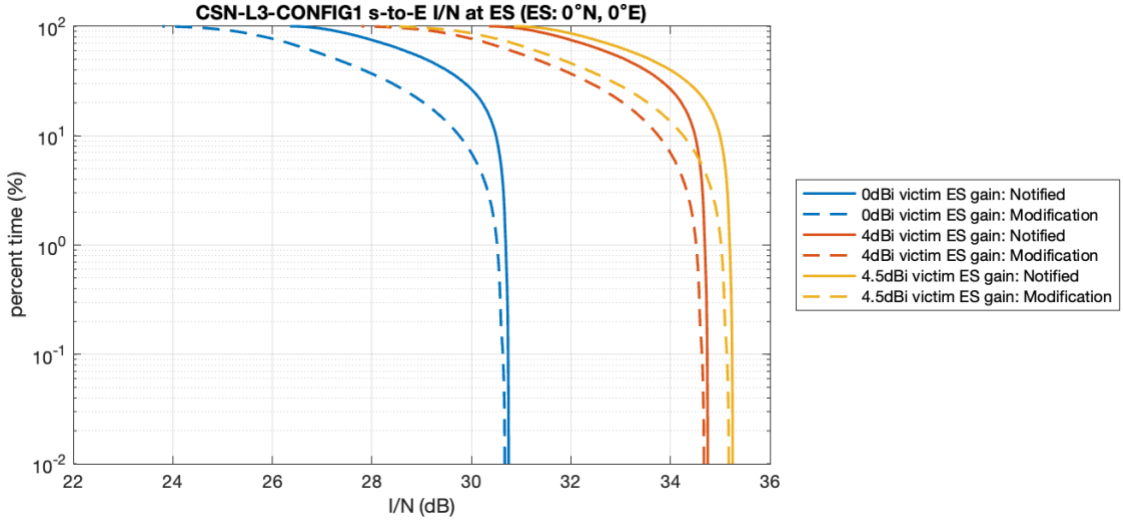

CSN-L2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

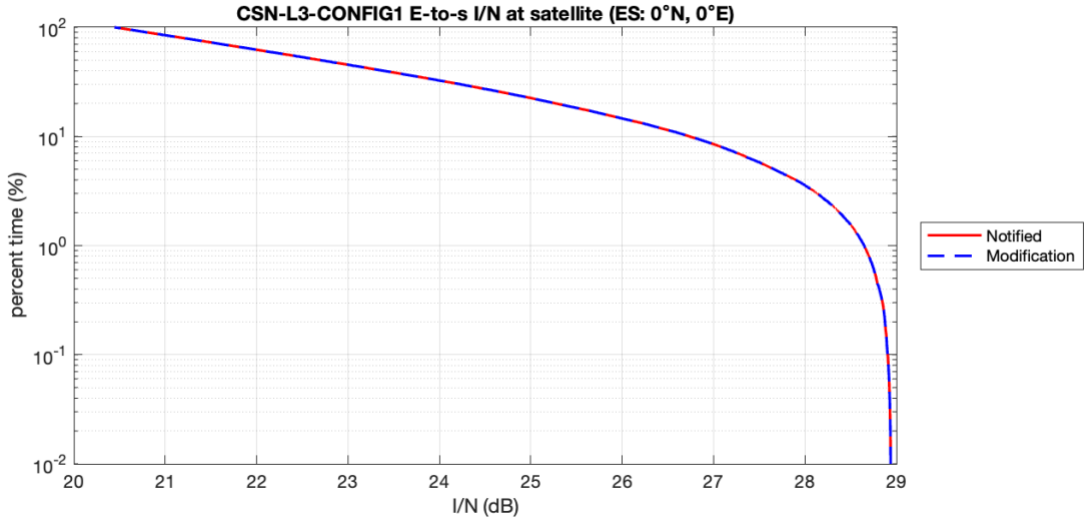

CSN-L2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

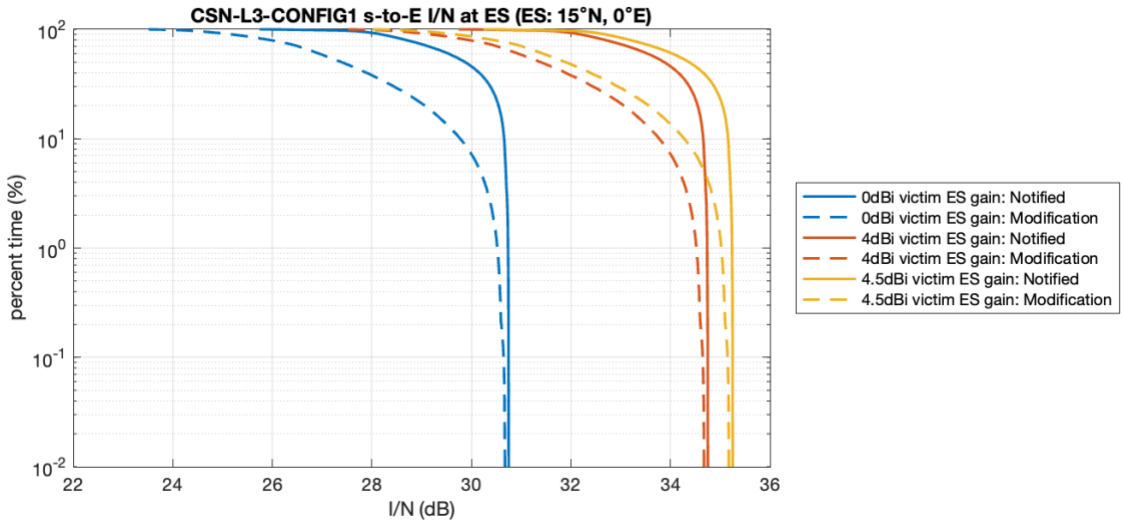

CSN-L2 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

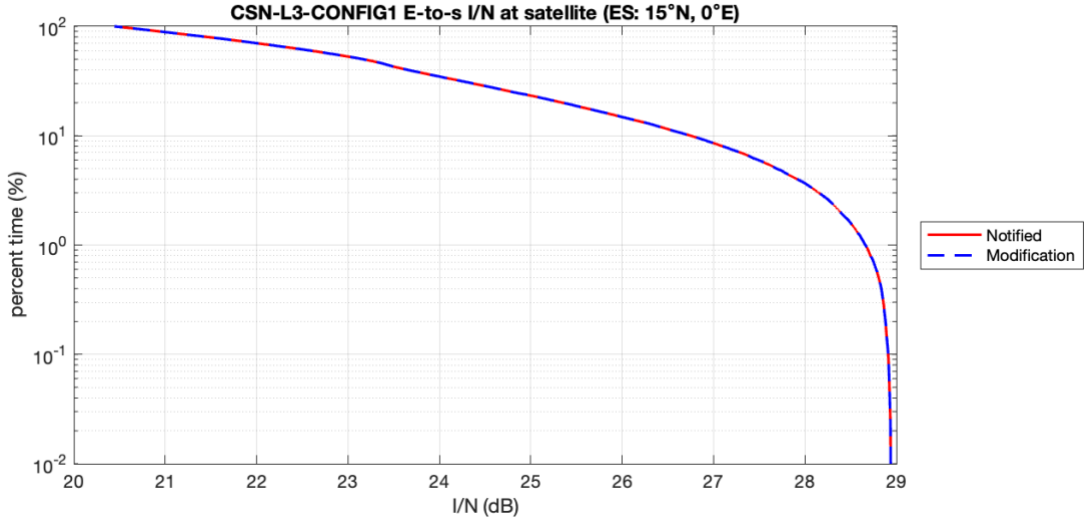

CSN-L2 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

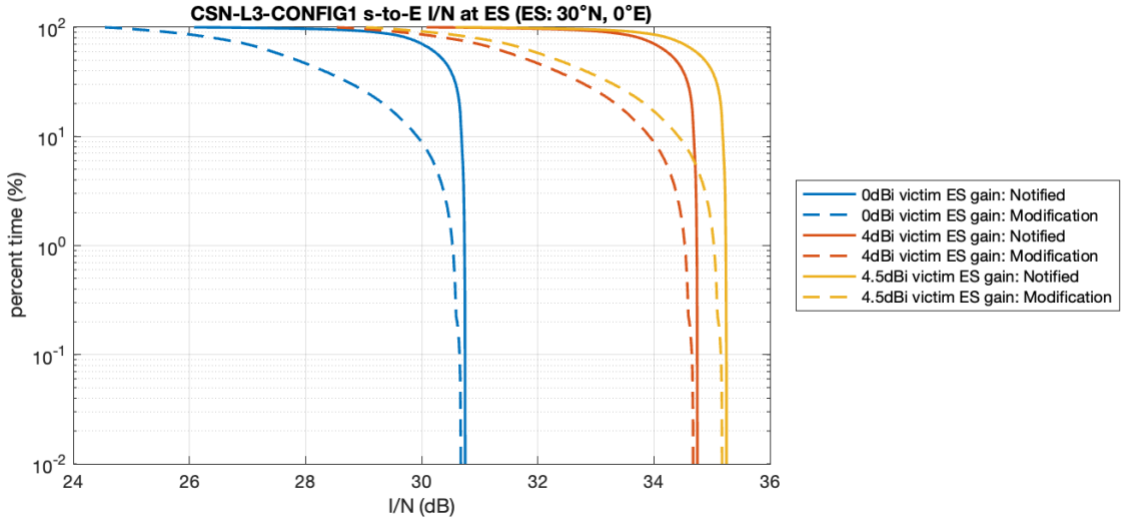

CSN-L2 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

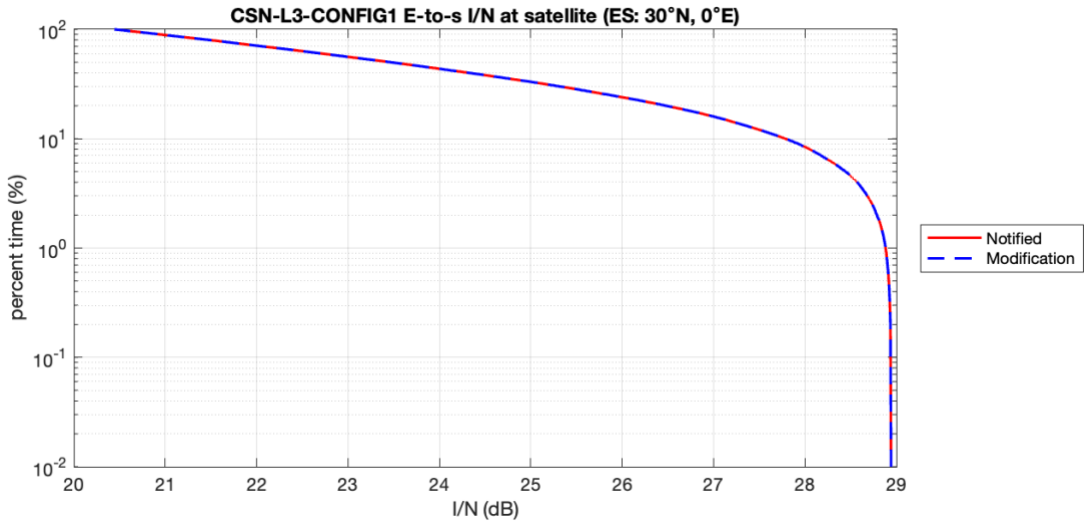

CSN-L3-CONFIG1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

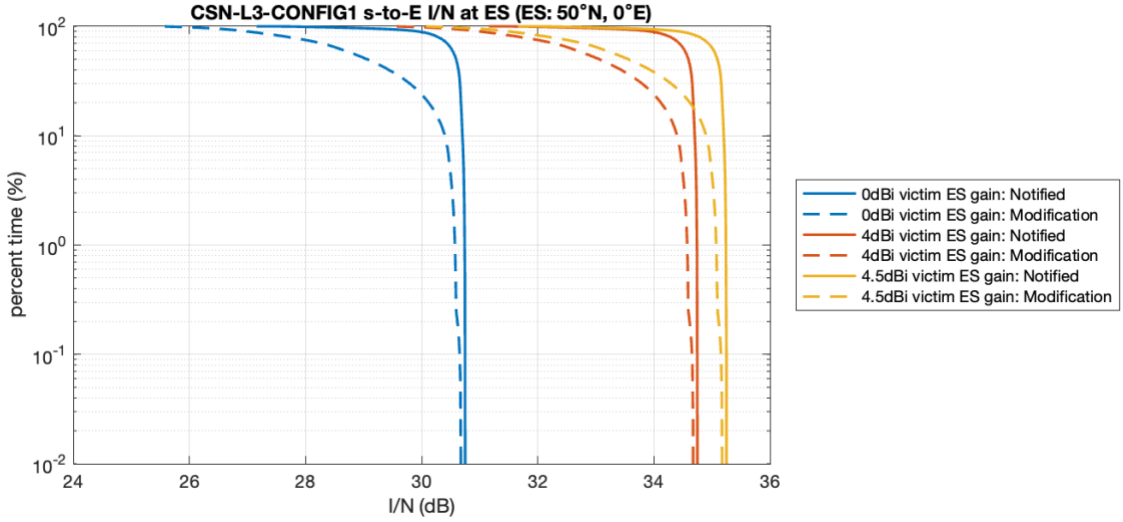

CSN-L3-CONFIG1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

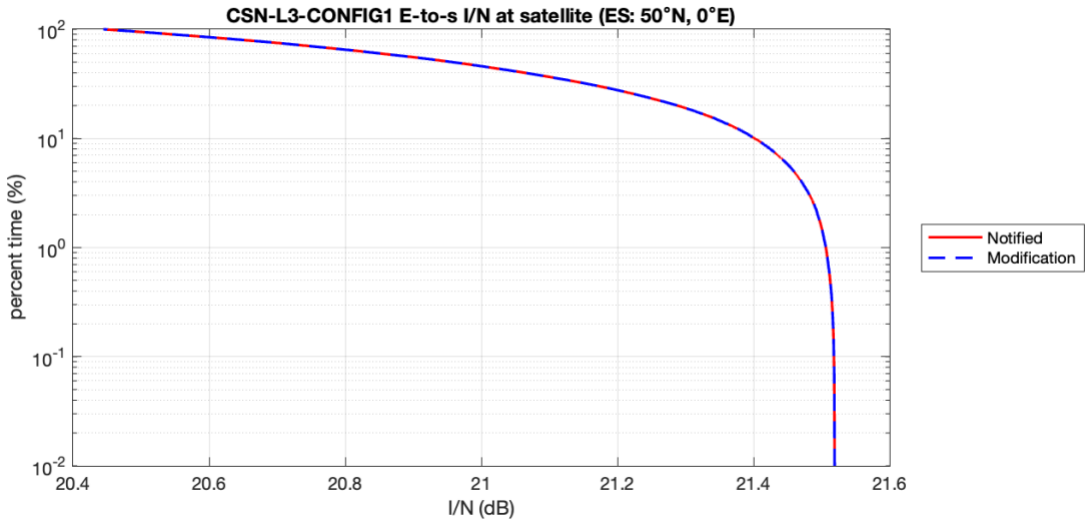

CSN-L3-CONFIG1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

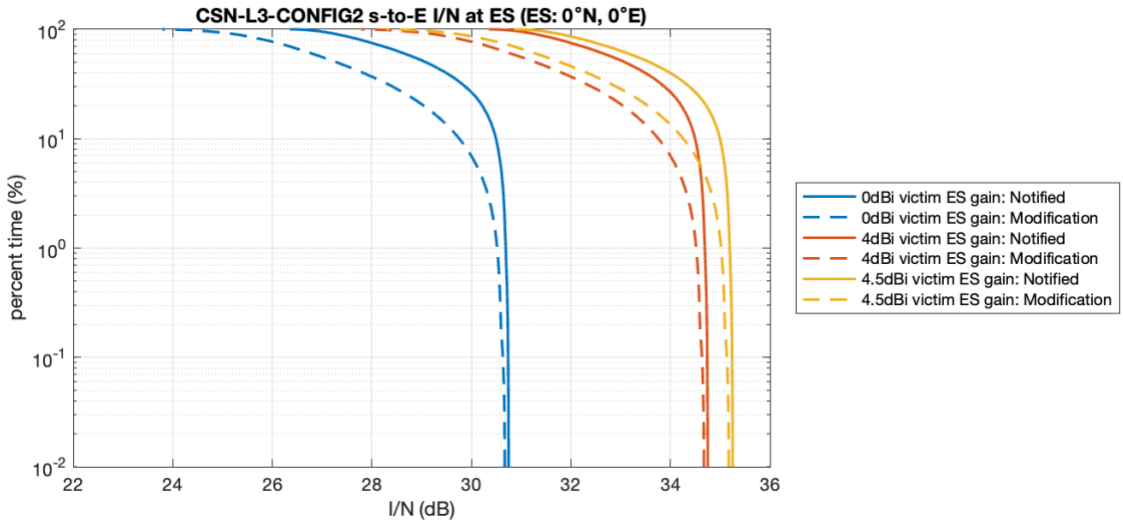

CSN-L3-CONFIG1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

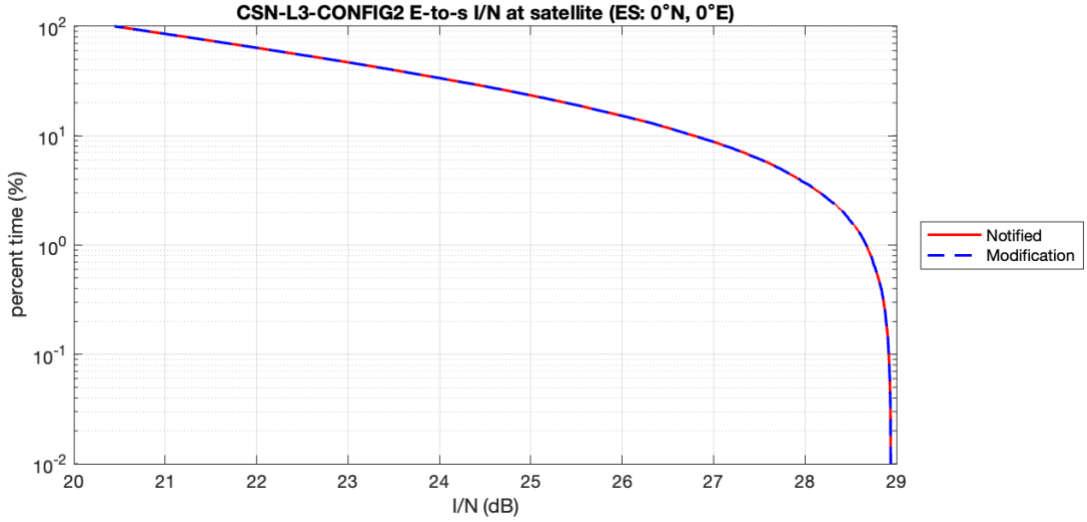

CSN-L3-CONFIG1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

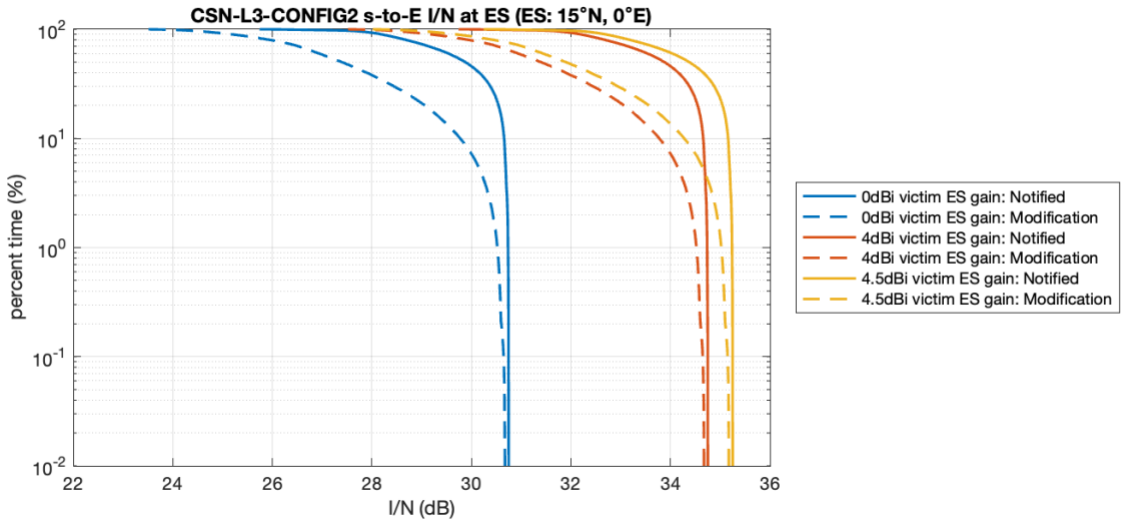

CSN-L3-CONFIG1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

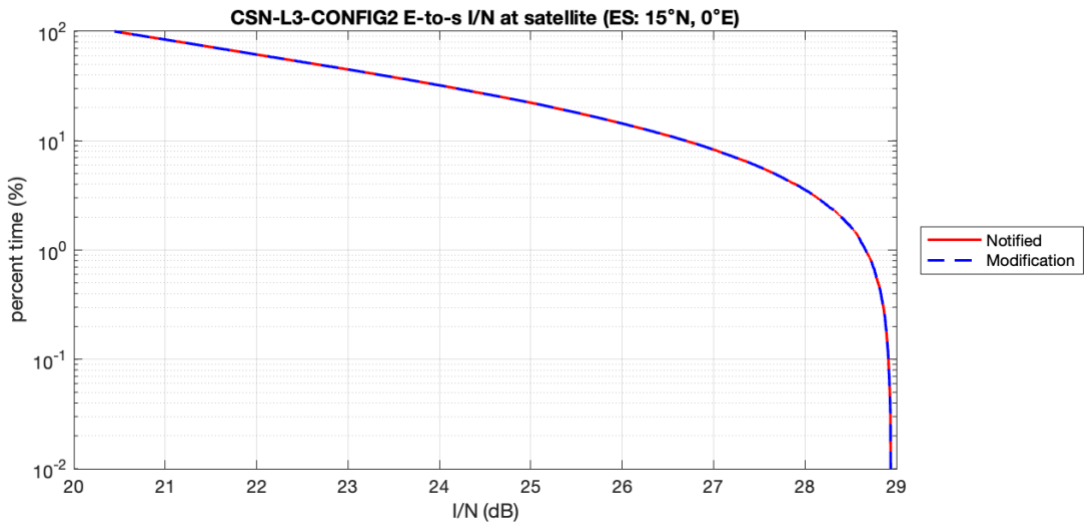

CSN-L3-CONFIG1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

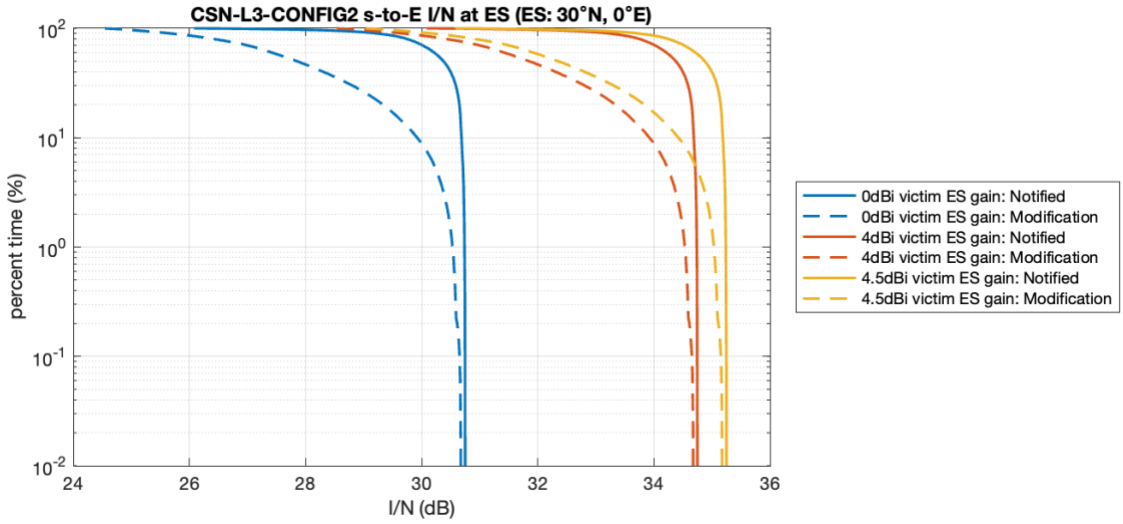

CSN-L3-CONFIG1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

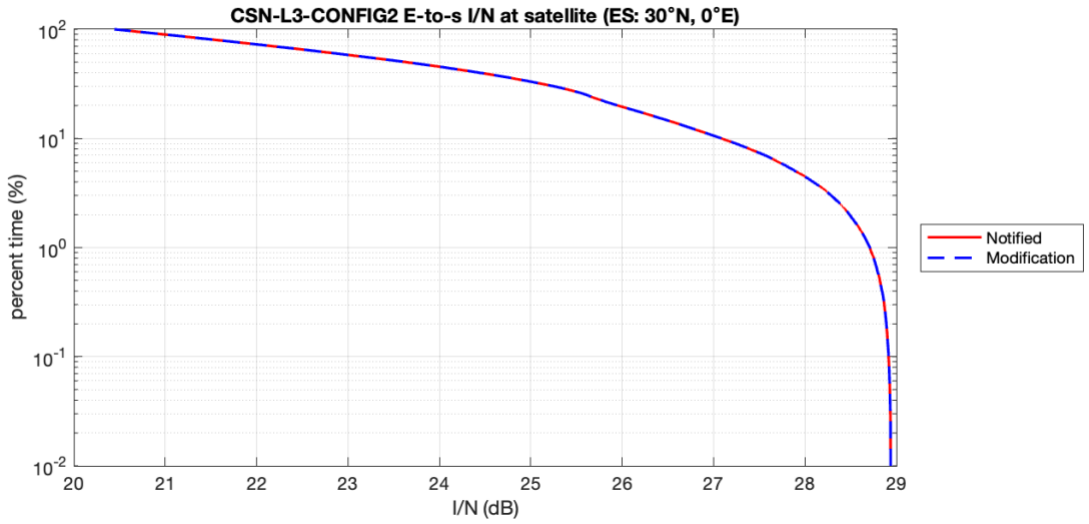

CSN-L3-CONFIG2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

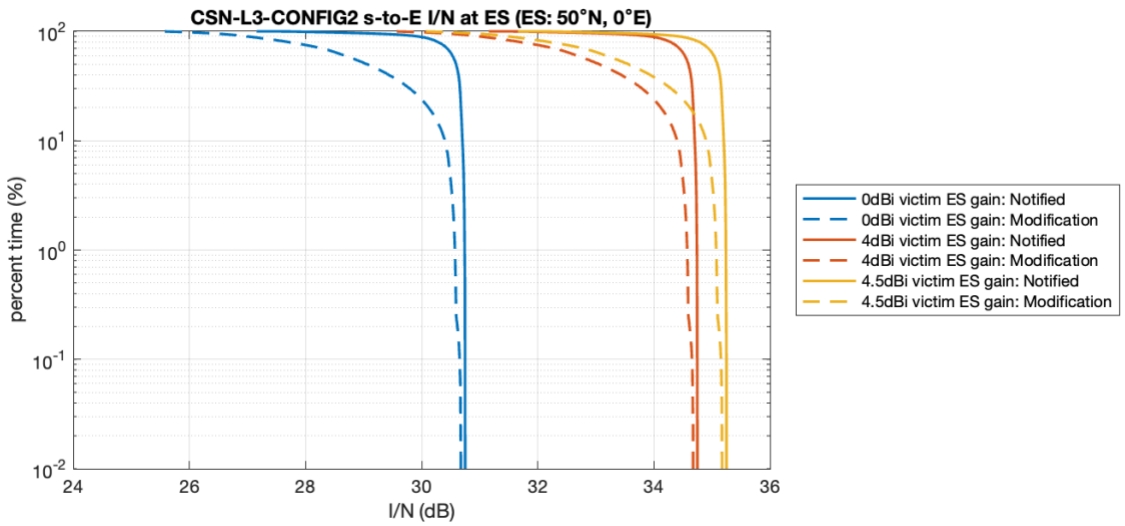

CSN-L3-CONFIG2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

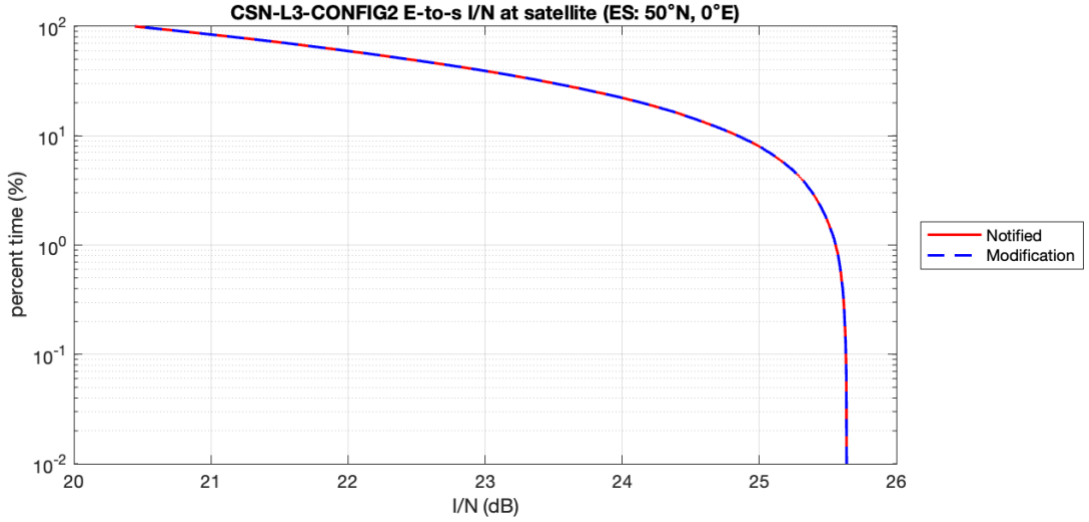

CSN-L3-CONFIG2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

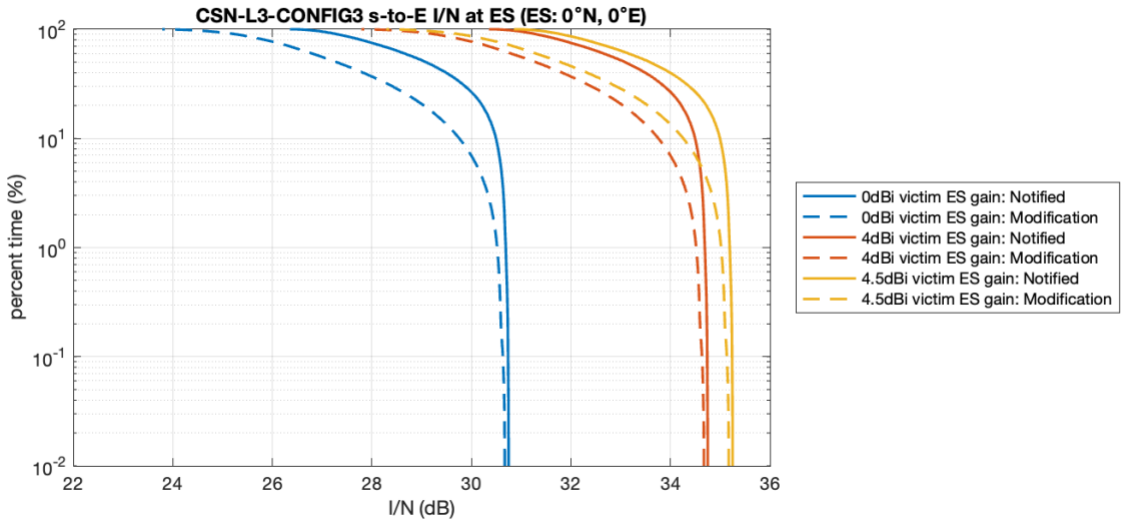

CSN-L3-CONFIG2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

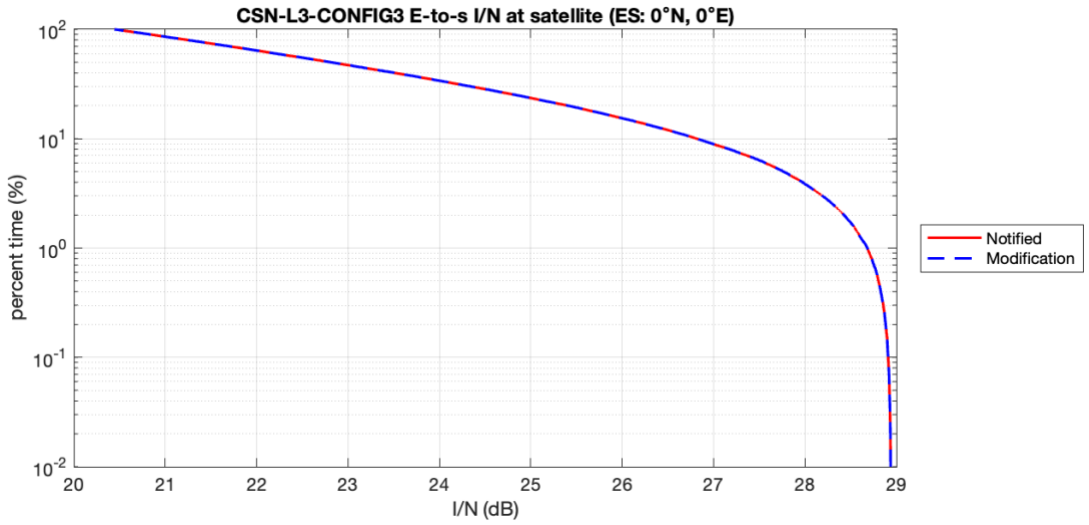

CSN-L3-CONFIG2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

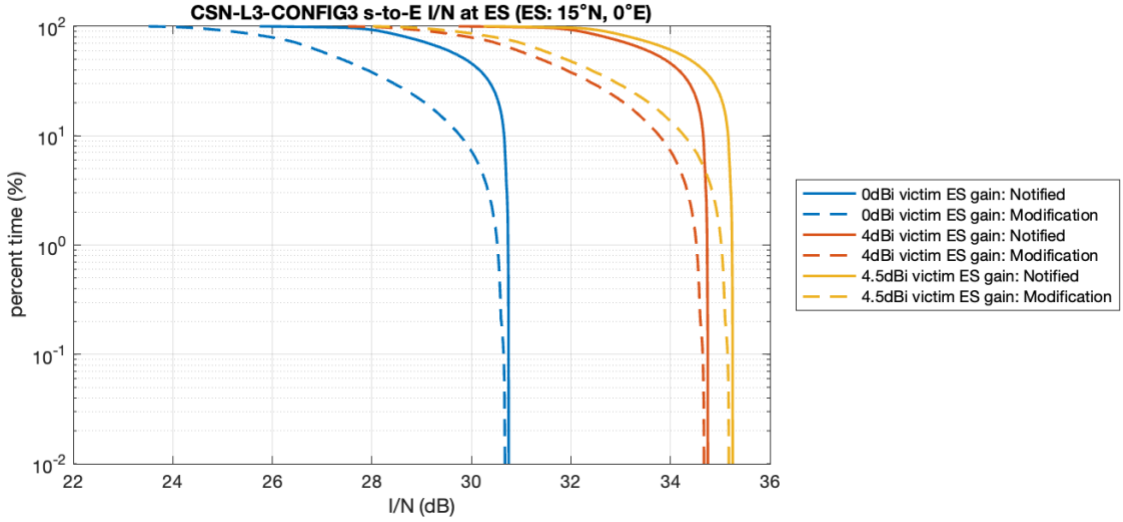

CSN-L3-CONFIG2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

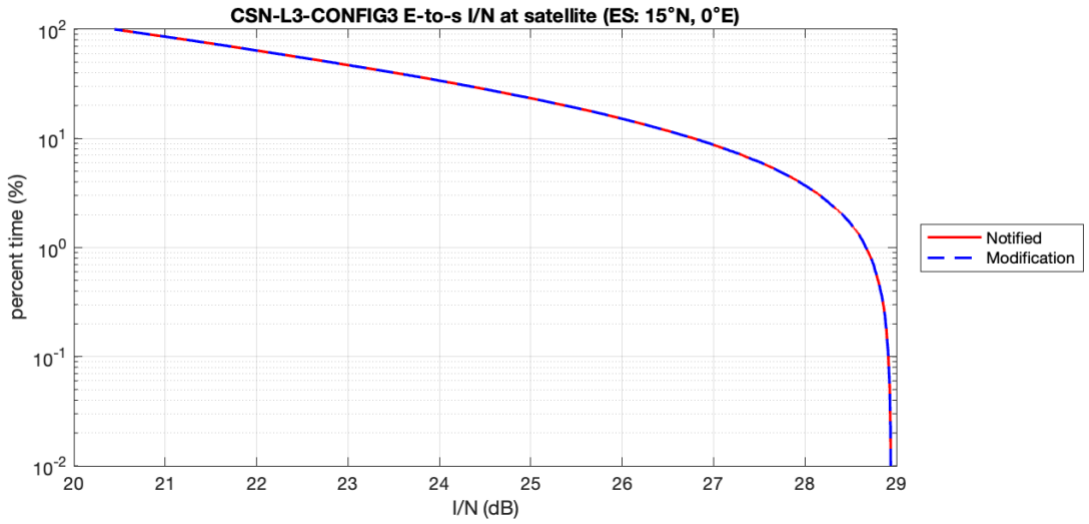

CSN-L3-CONFIG2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

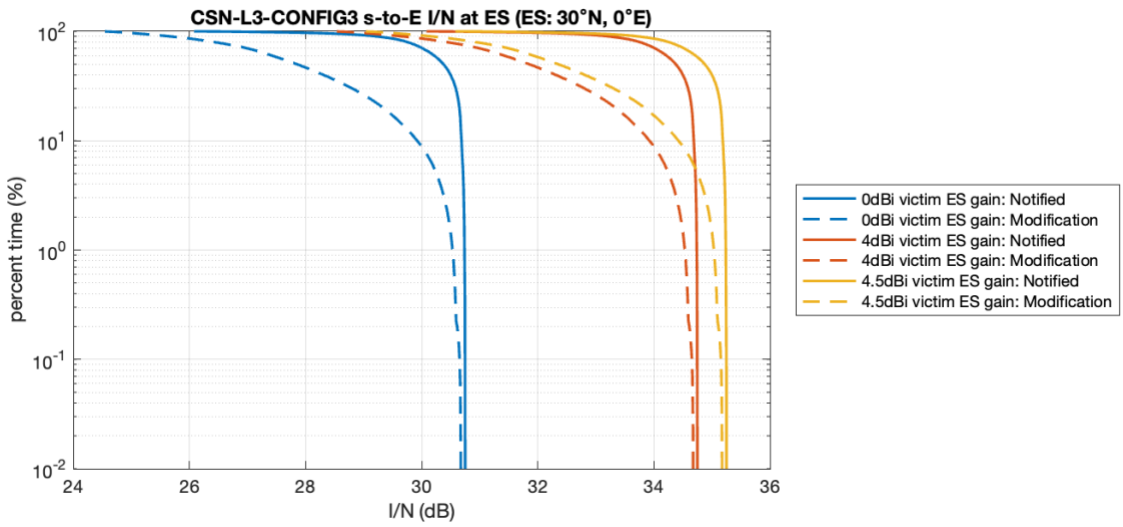

CSN-L3-CONFIG2 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

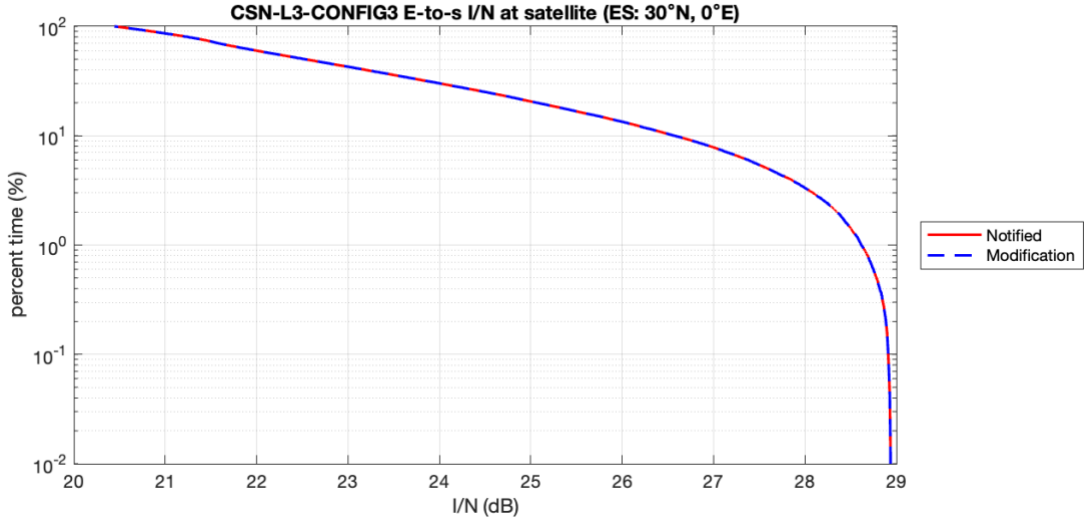

CSN-L3-CONFIG3 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

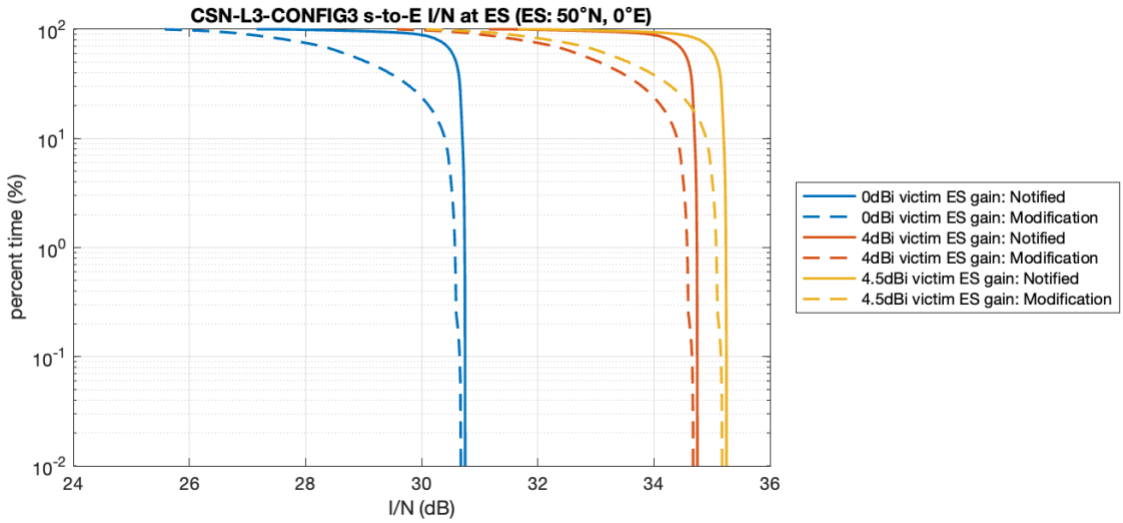

CSN-L3-CONFIG3 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

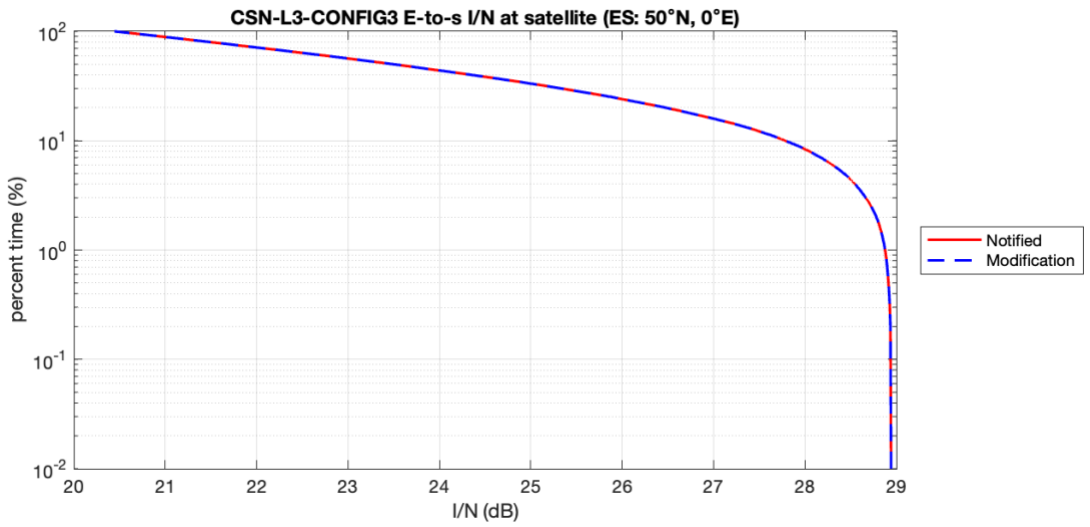

CSN-L3-CONFIG3 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

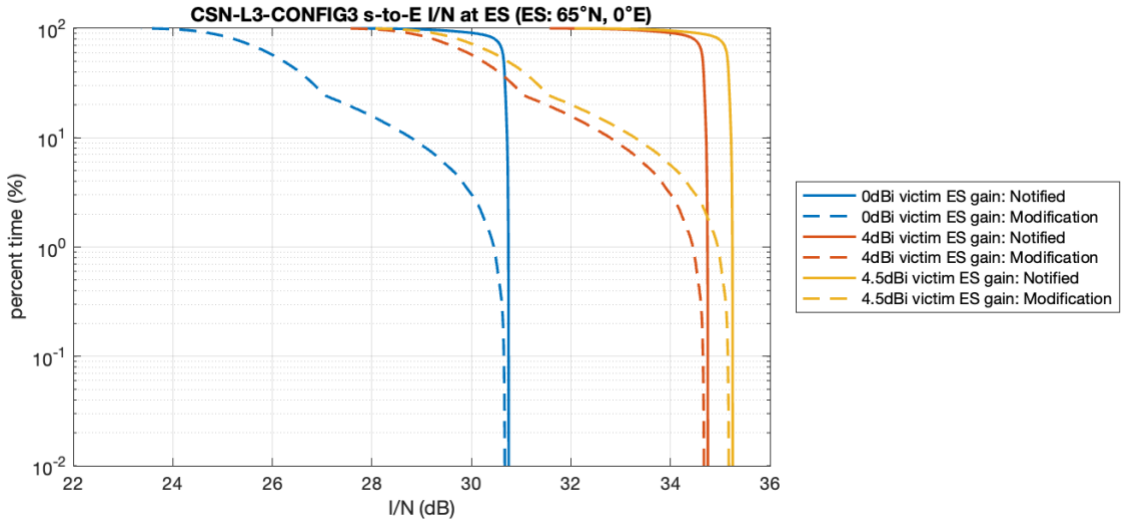

CSN-L3-CONFIG3 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

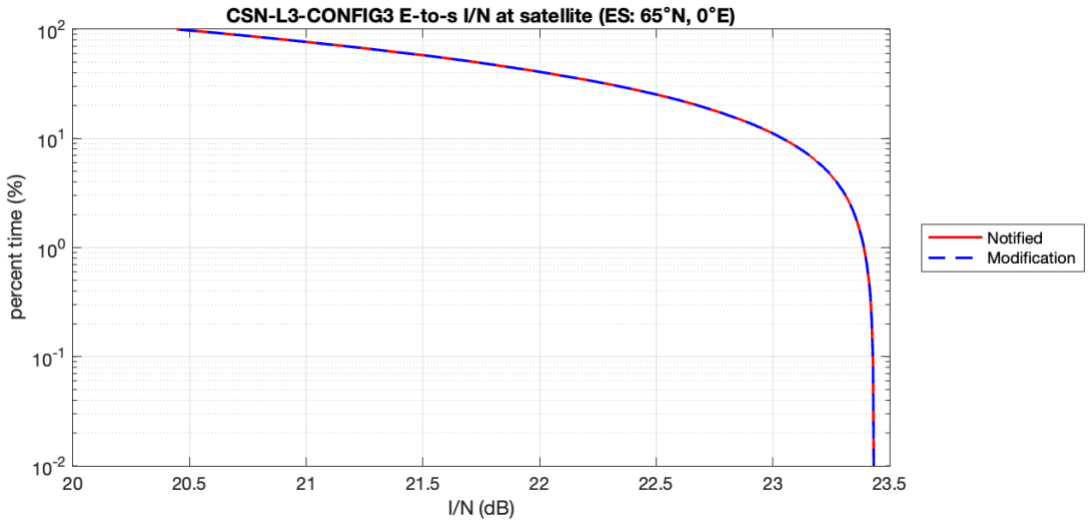

CSN-L3-CONFIG3 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

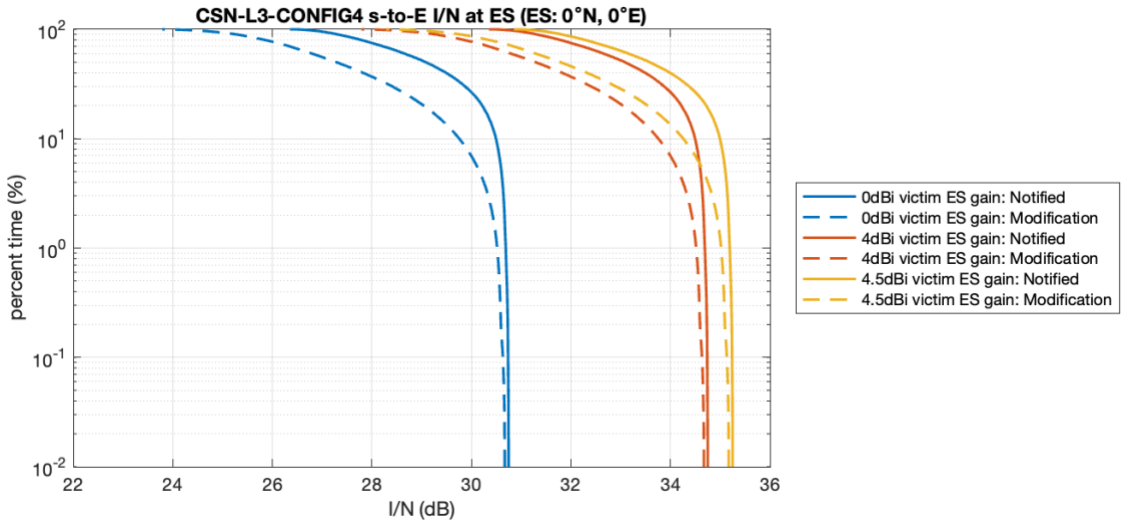

CSN-L3-CONFIG3 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

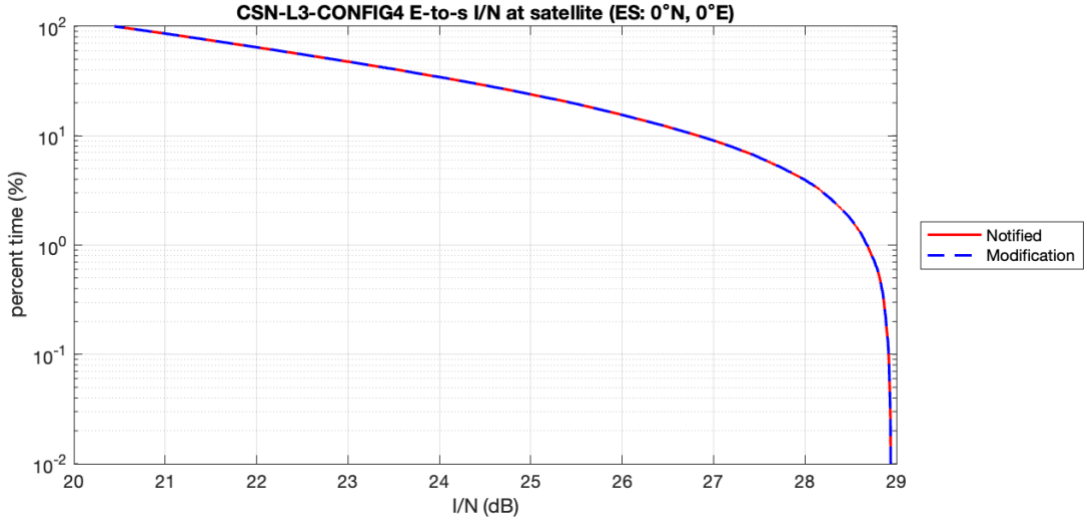

CSN-L3-CONFIG3 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

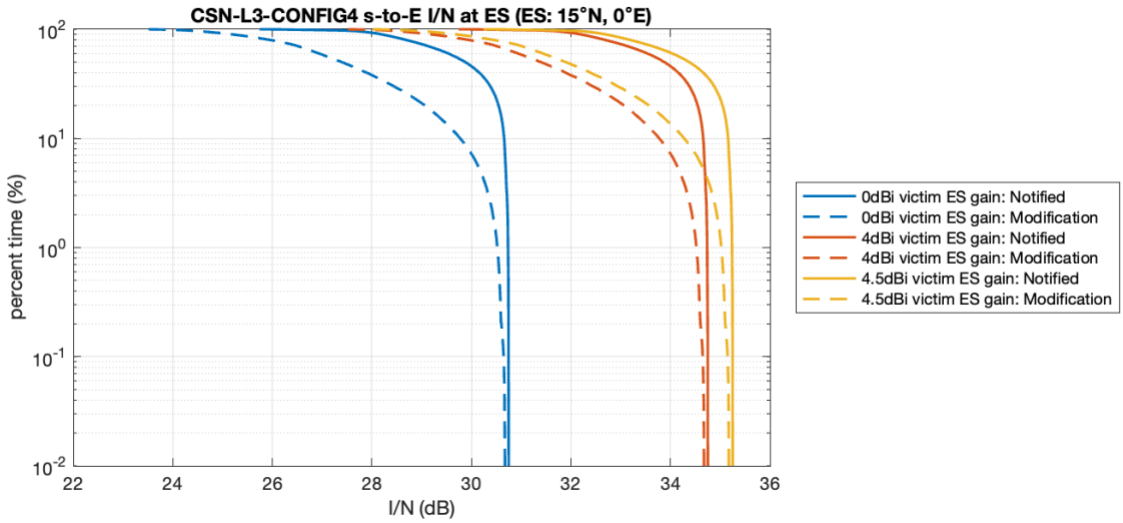

CSN-L3-CONFIG3 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

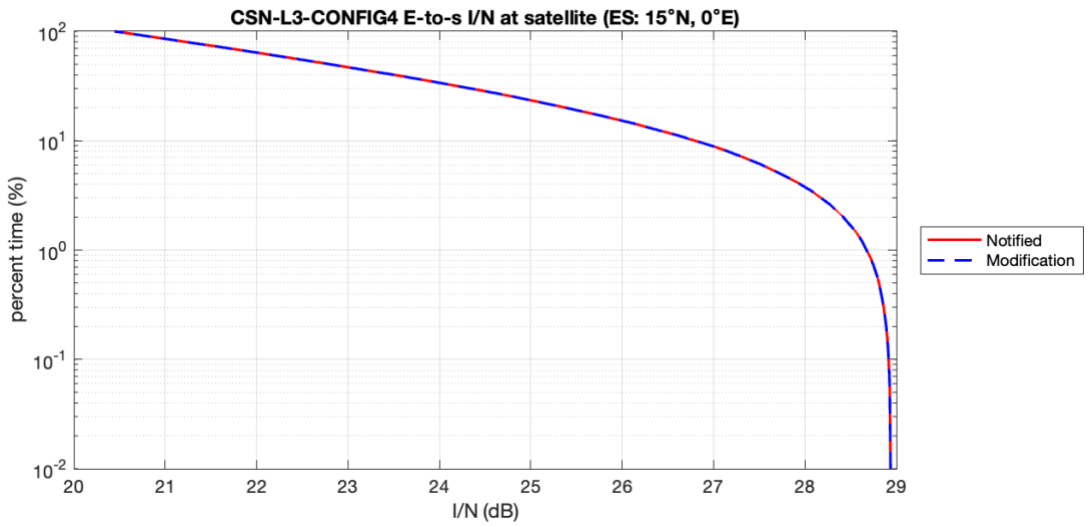

CSN-L3-CONFIG3 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

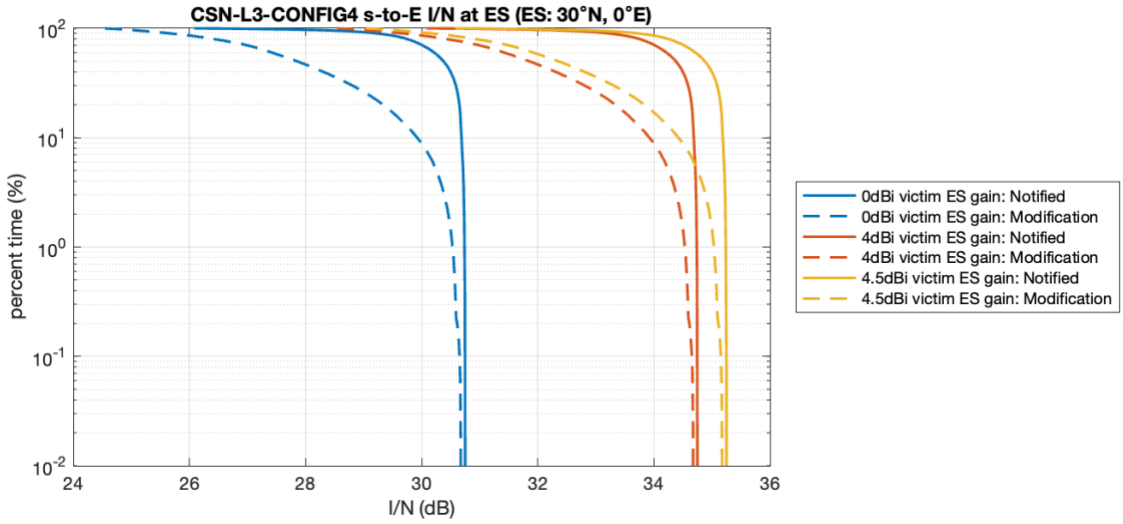

CSN-L3-CONFIG3 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

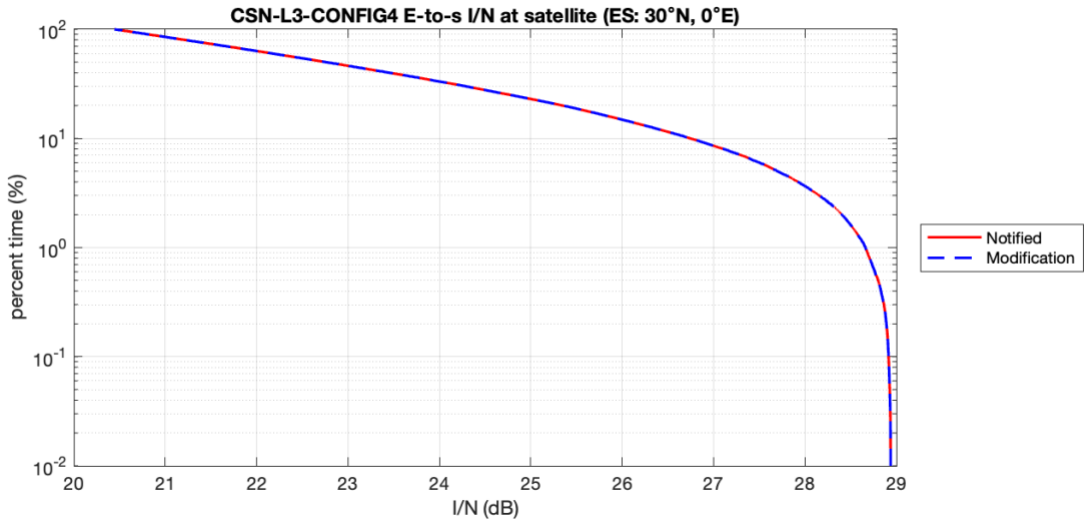

CSN-L3-CONFIG4 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

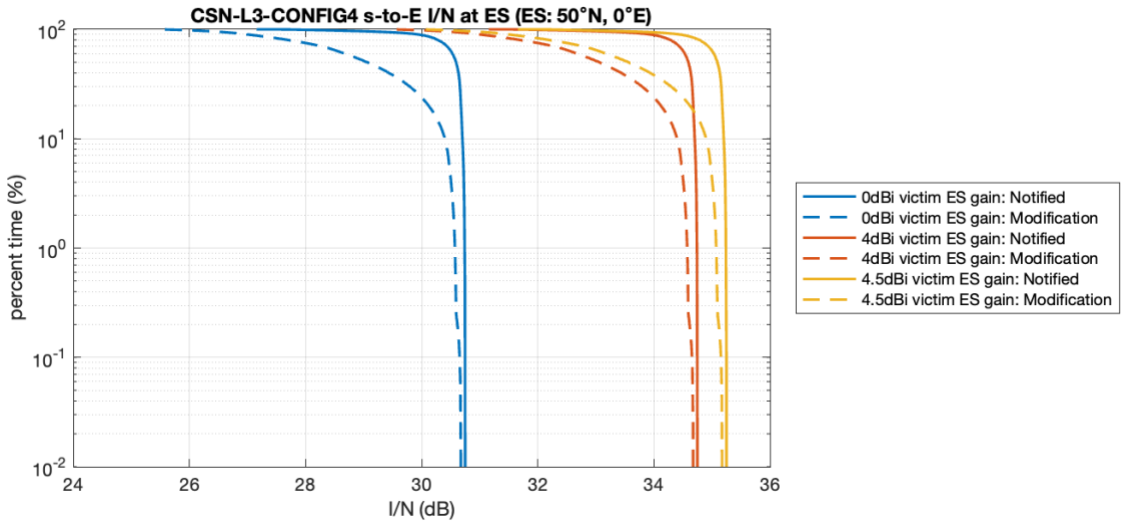

CSN-L3-CONFIG4 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

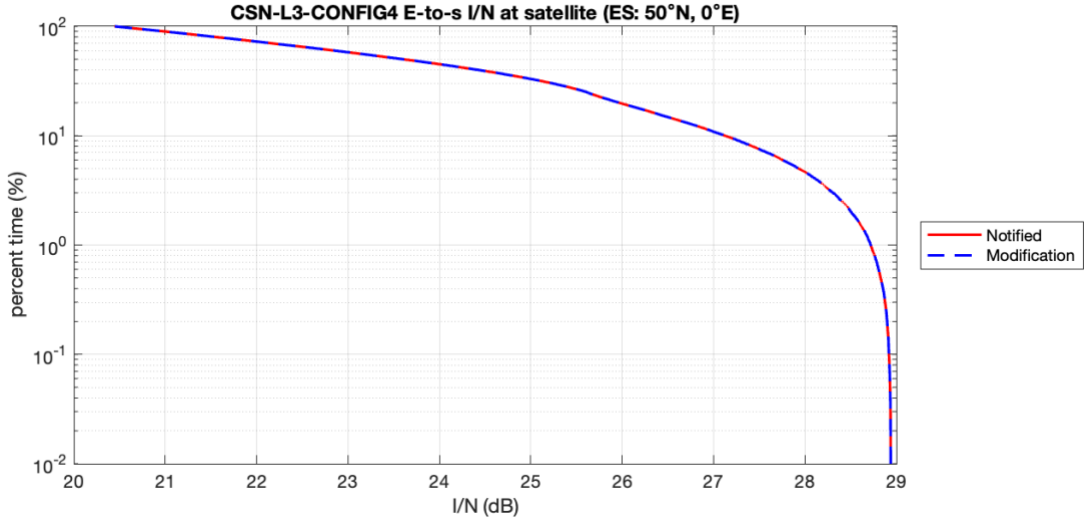

CSN-L3-CONFIG4 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

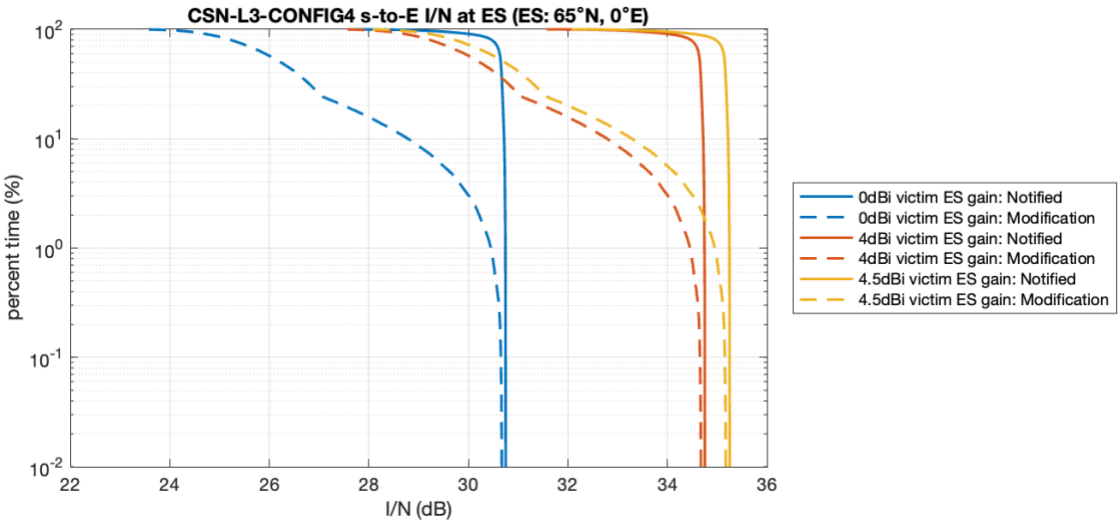

CSN-L3-CONFIG4 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

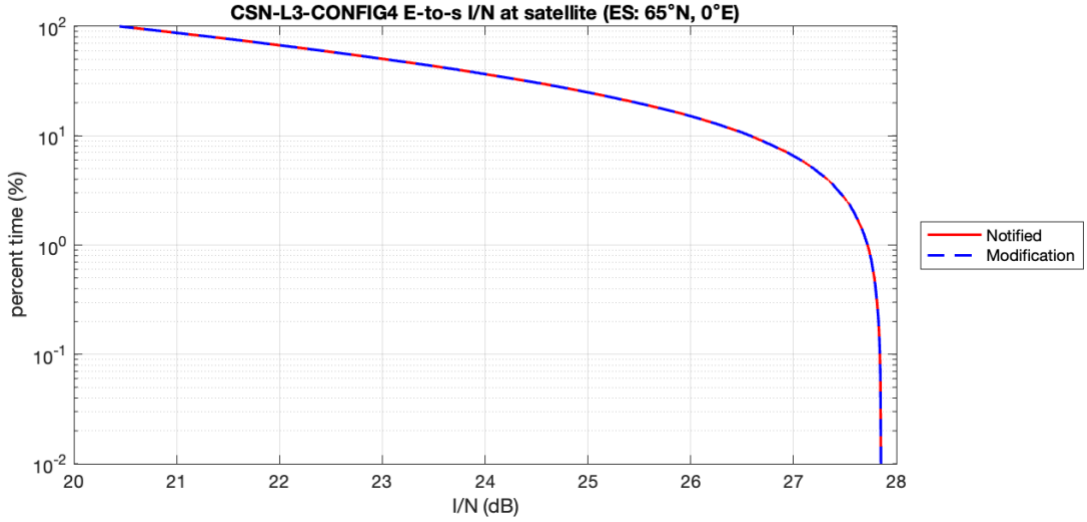

CSN-L3-CONFIG4 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

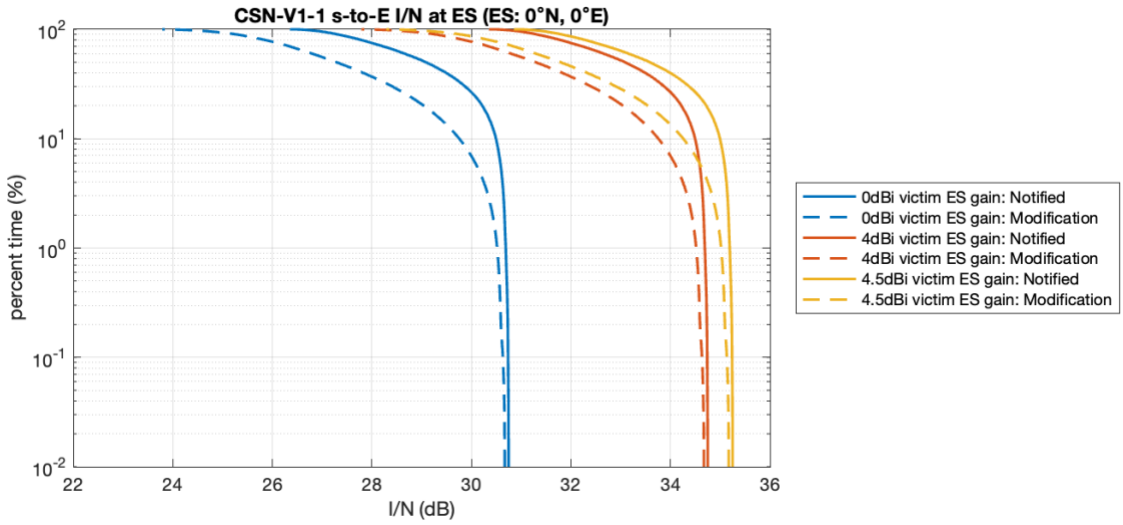

CSN-L3-CONFIG4 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

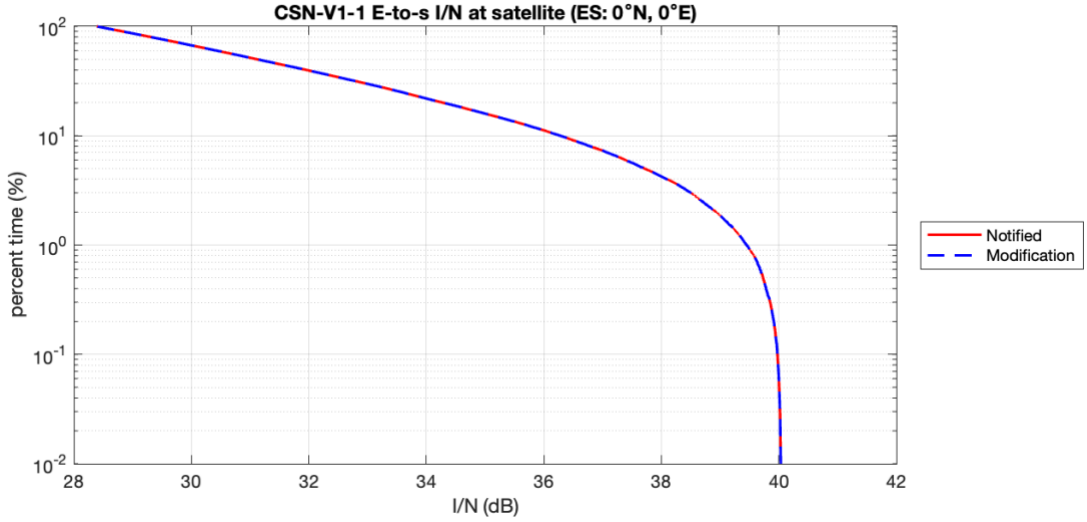

CSN-L3-CONFIG4 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

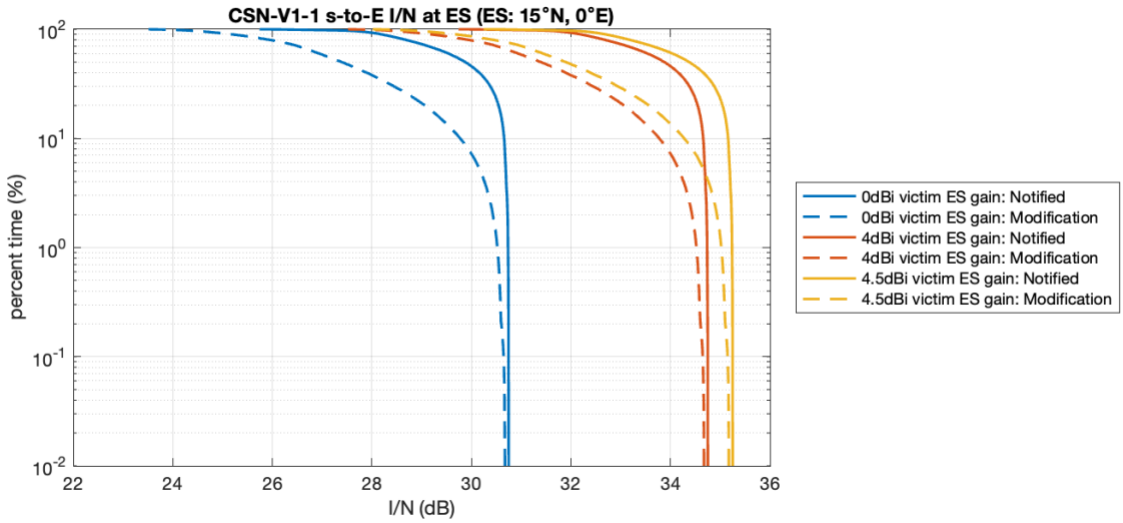

CSN-L3-CONFIG4 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

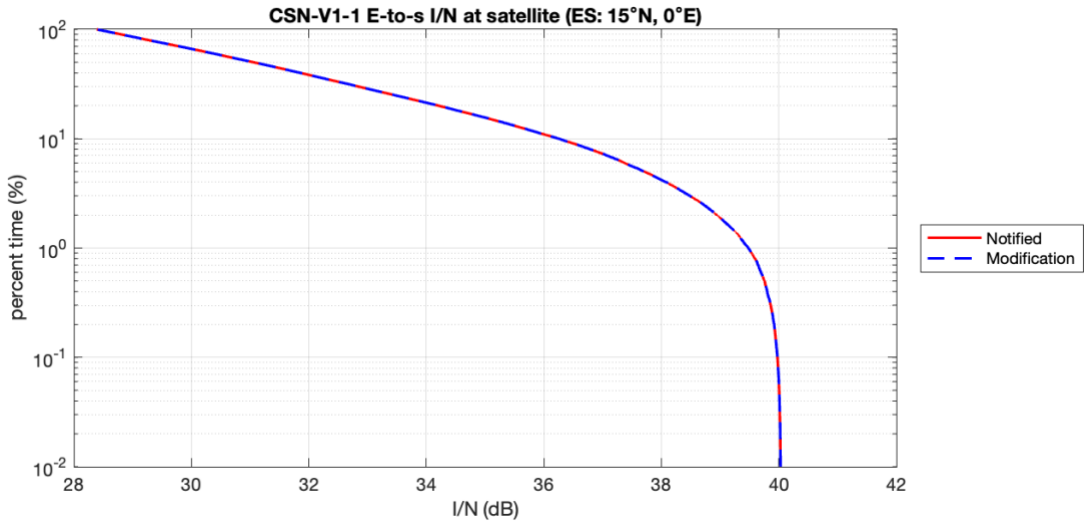

CSN-L3-CONFIG4 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

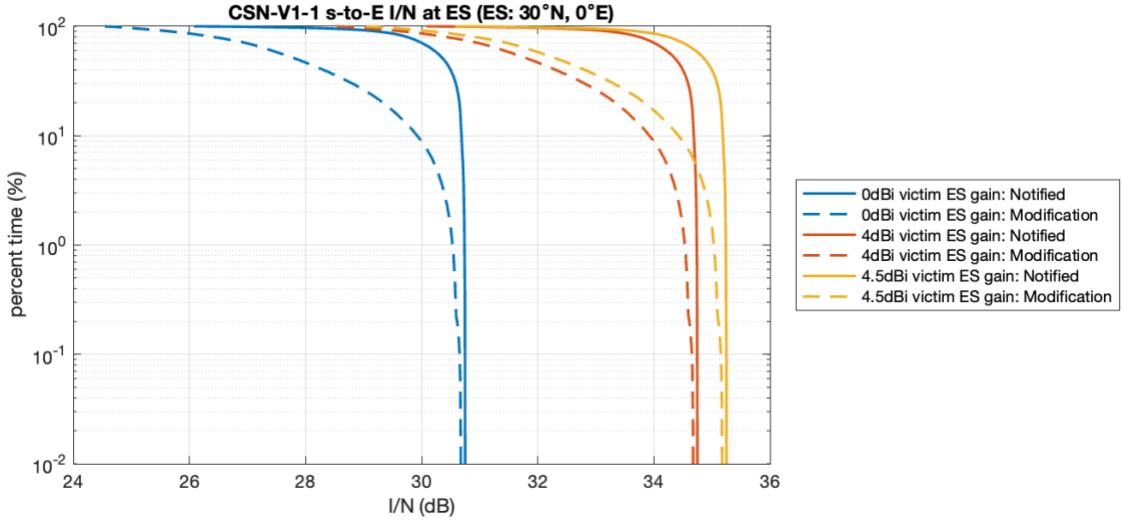

CSN-L3-CONFIG4 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

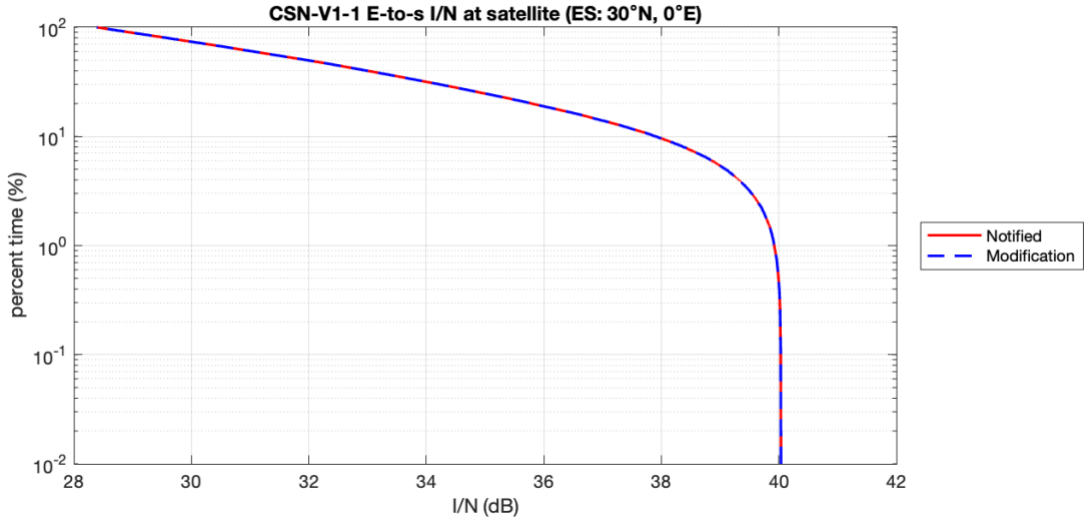

CSN-V1-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

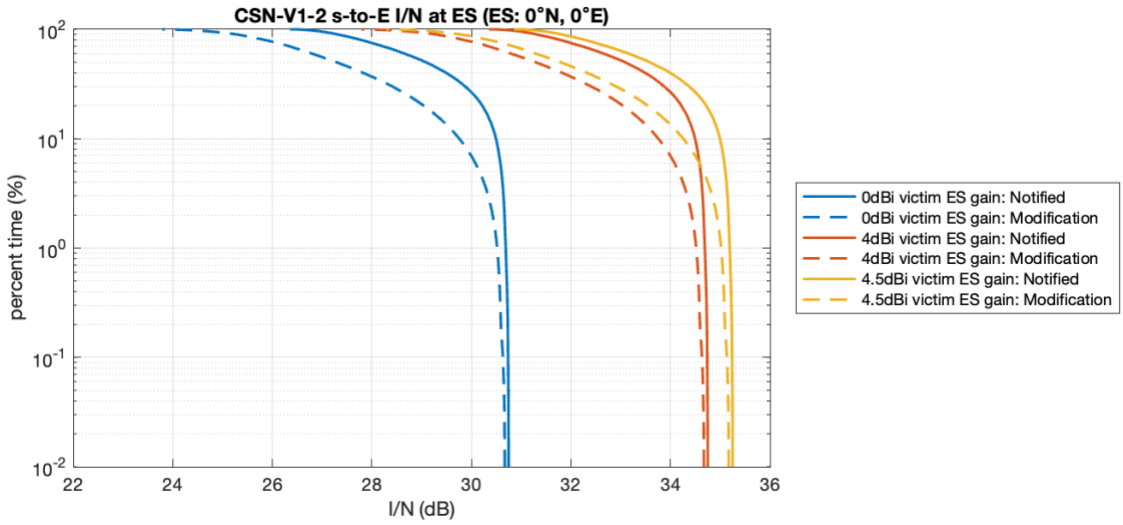

CSN-V1-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

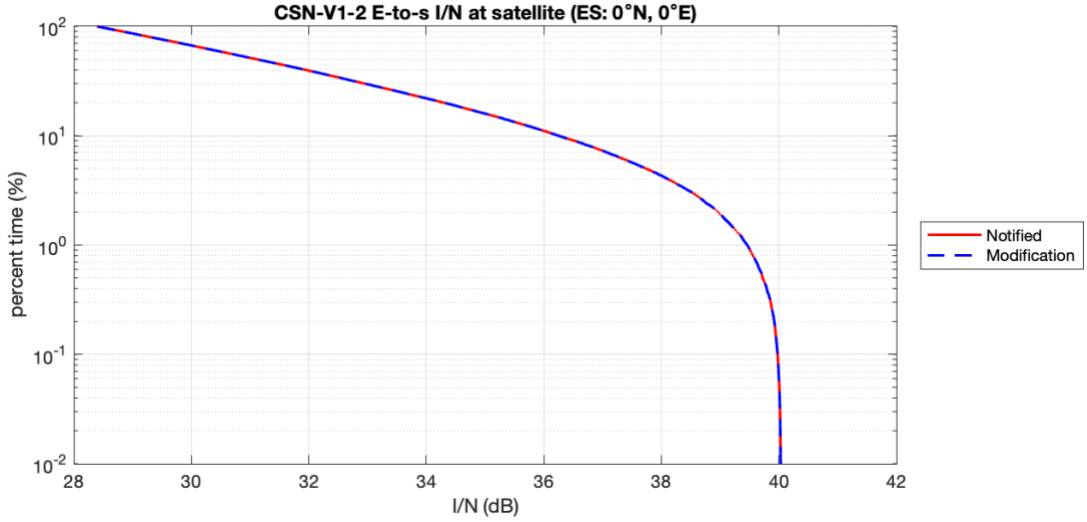

CSN-V1-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

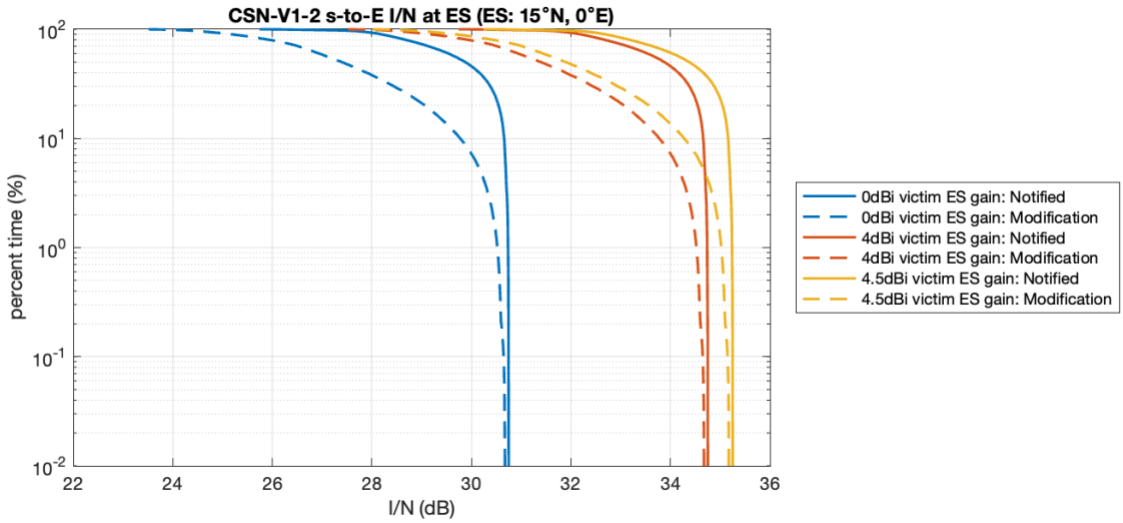

CSN-V1-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

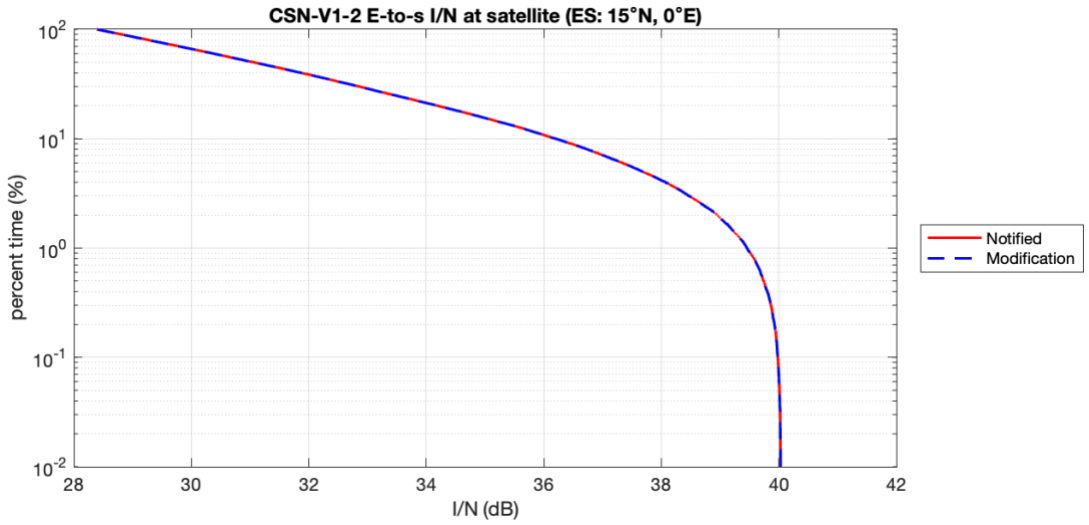

CSN-V1-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

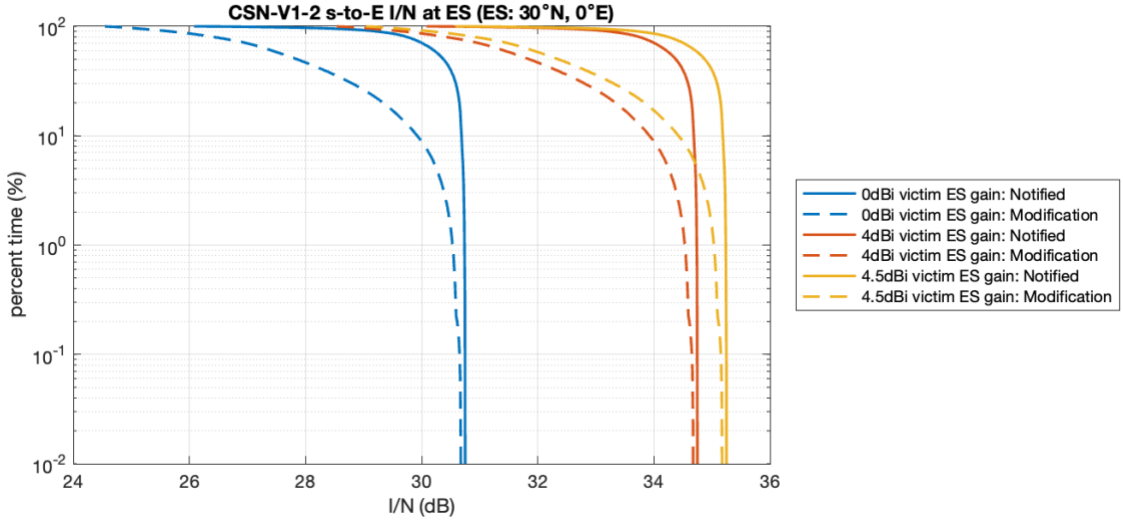

CSN-V1-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

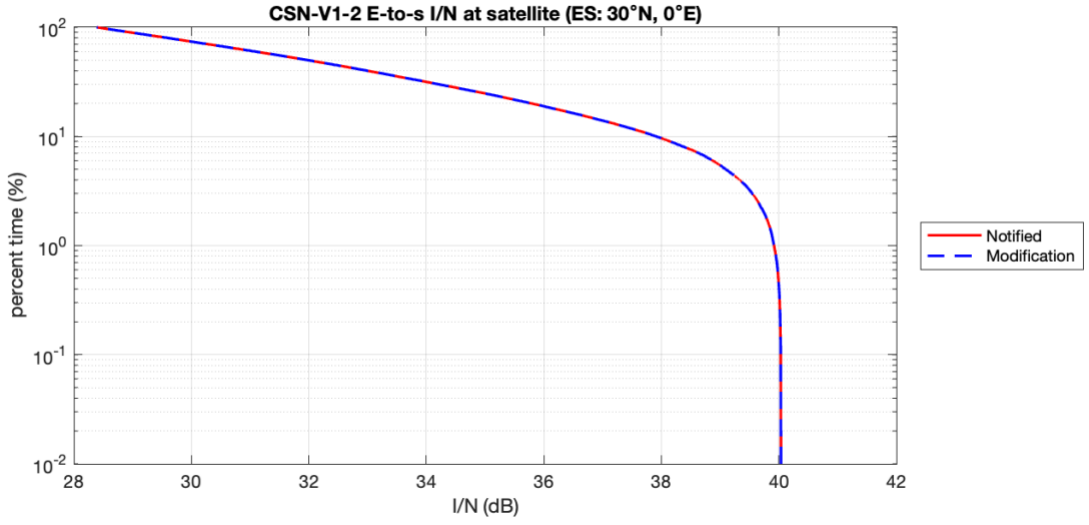

CSN-V1-2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

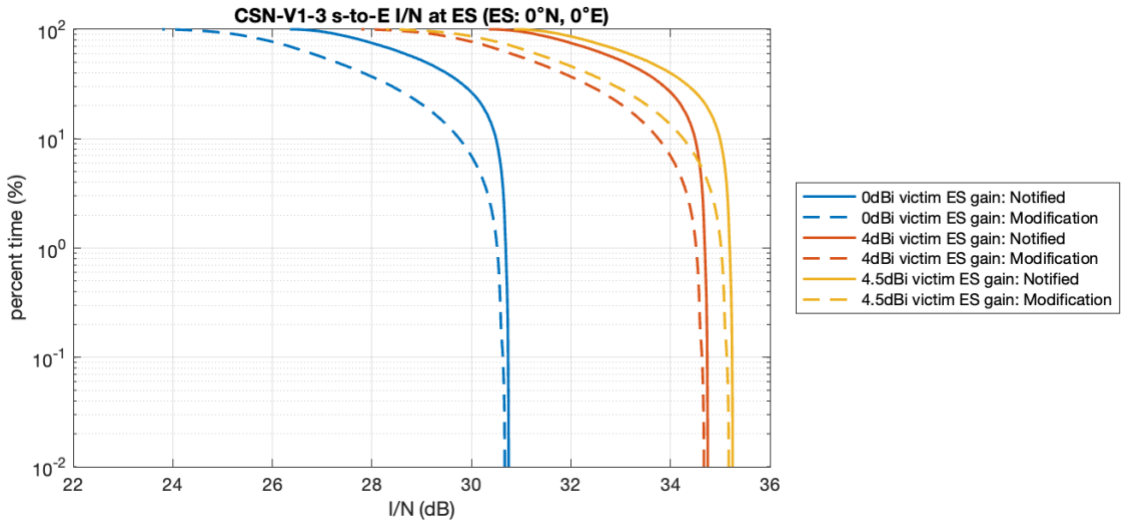

CSN-V1-2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

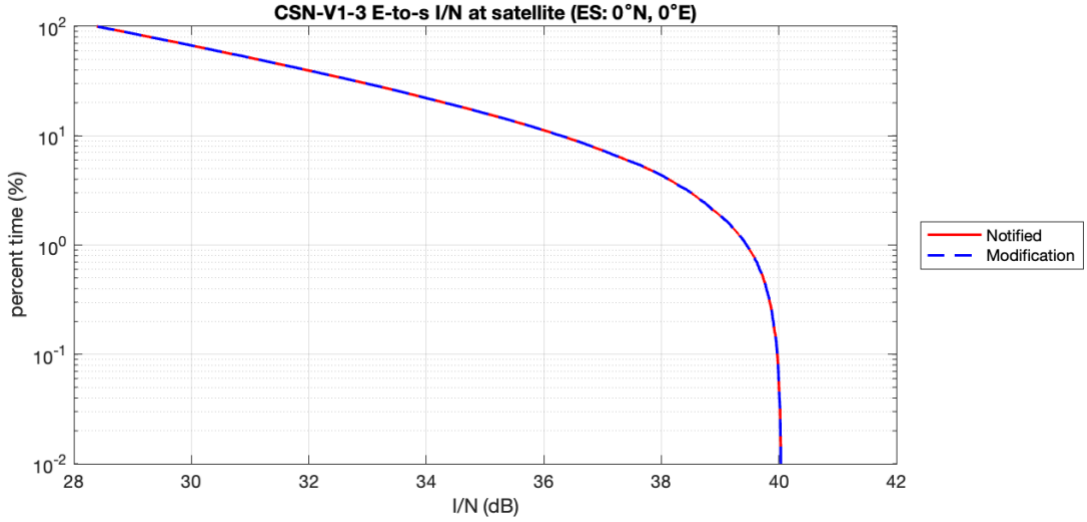

CSN-V1-2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

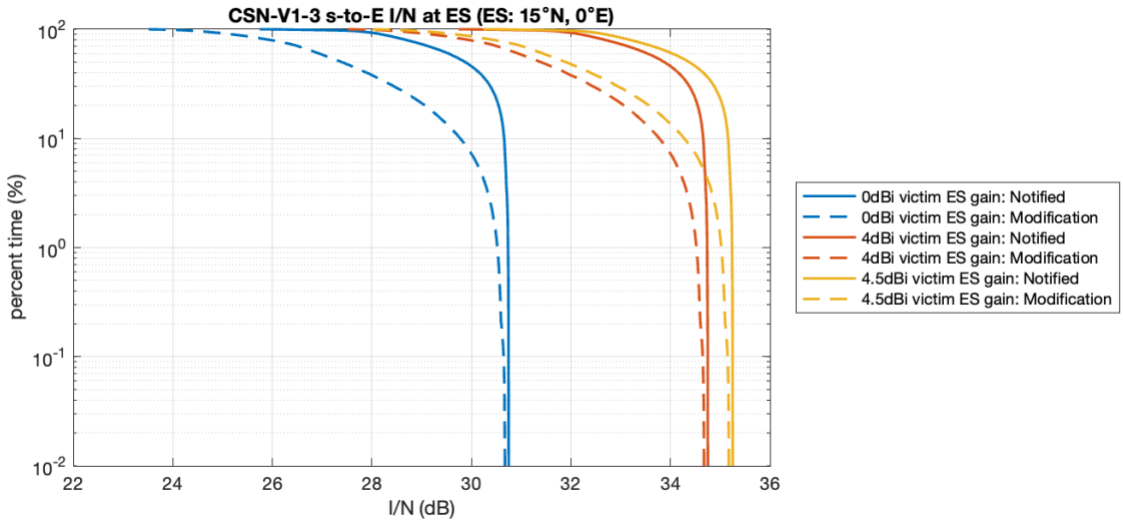

CSN-V1-2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

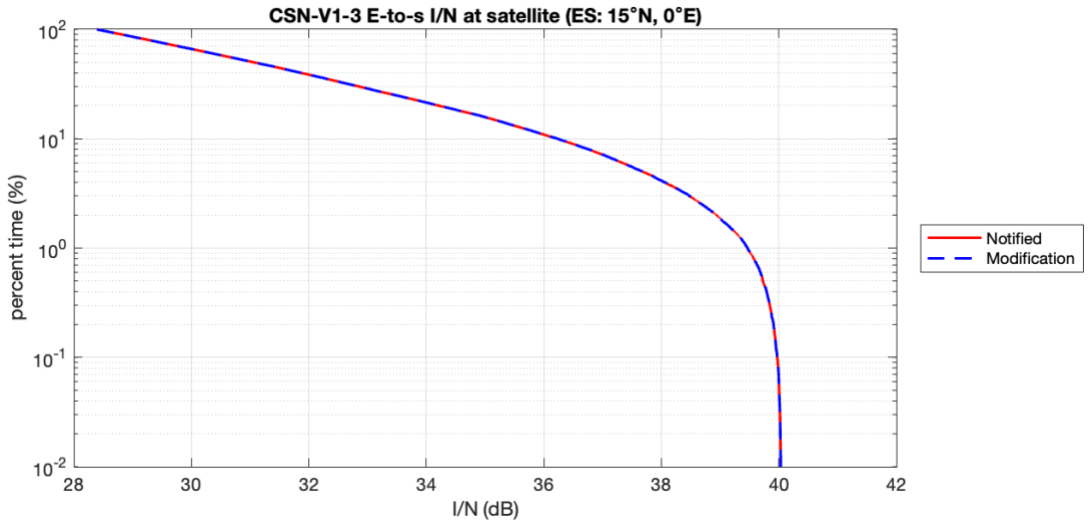

CSN-V1-2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

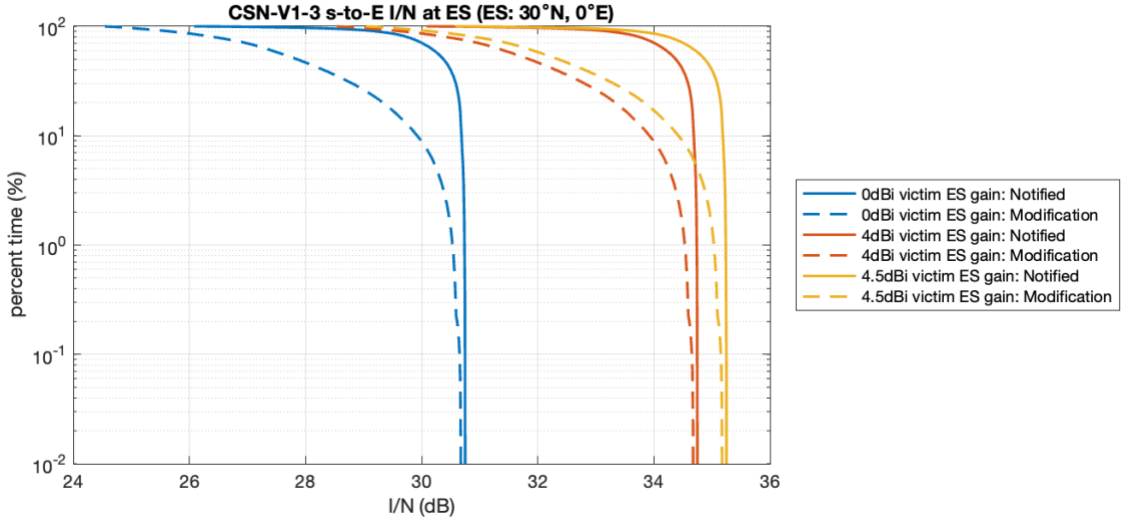

CSN-V1-2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

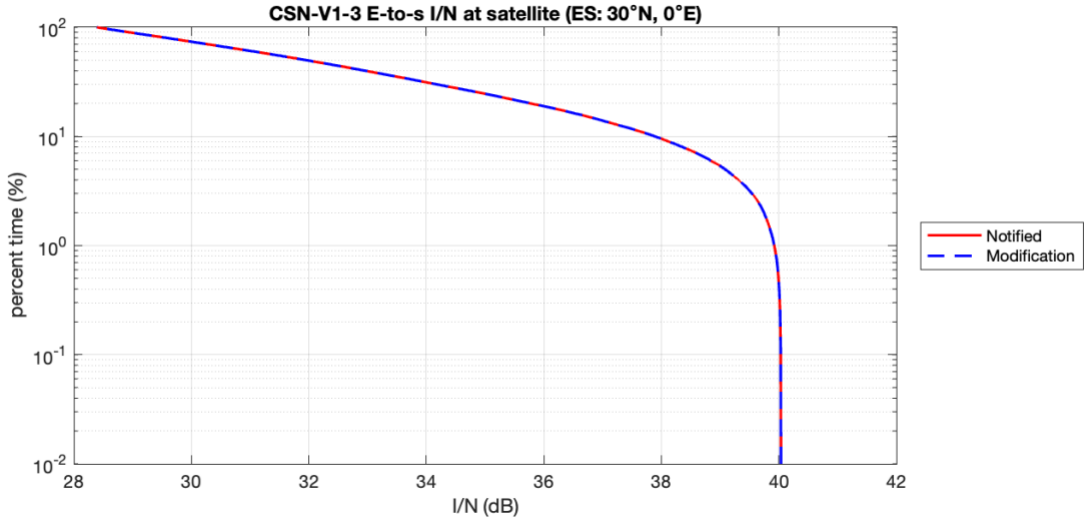

CSN-V1-3 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

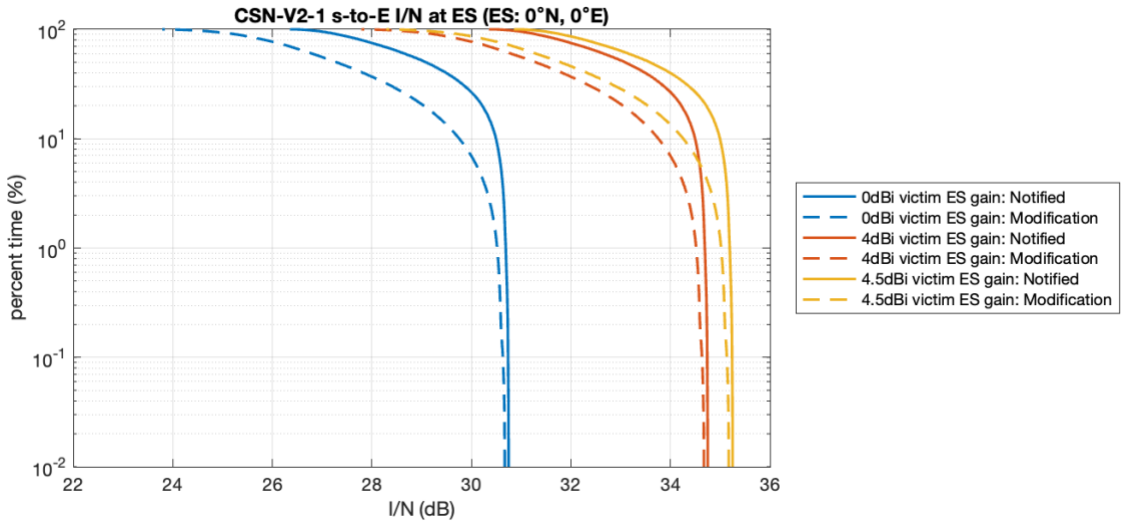

CSN-V1-3 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

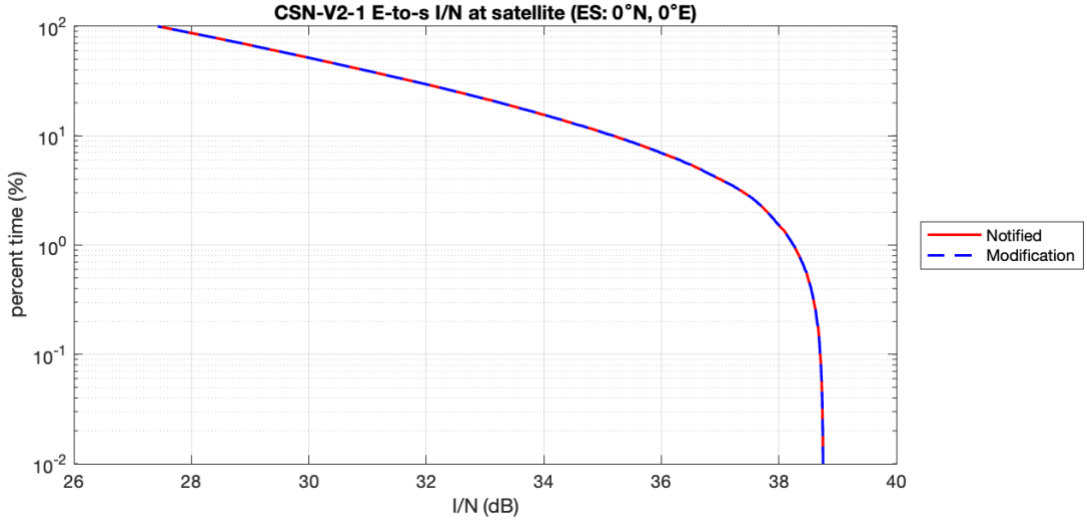

CSN-V1-3 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

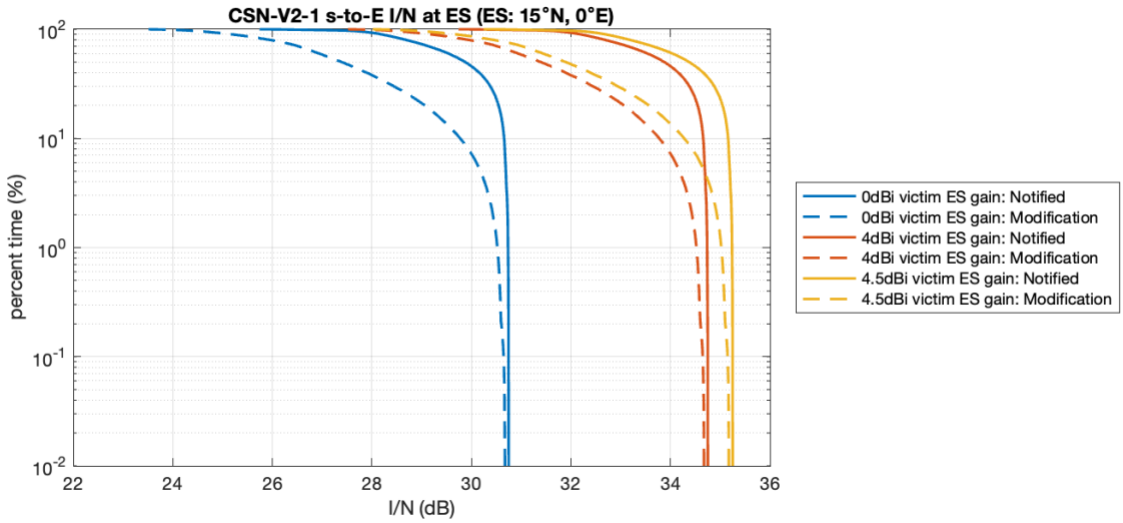

CSN-V1-3 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

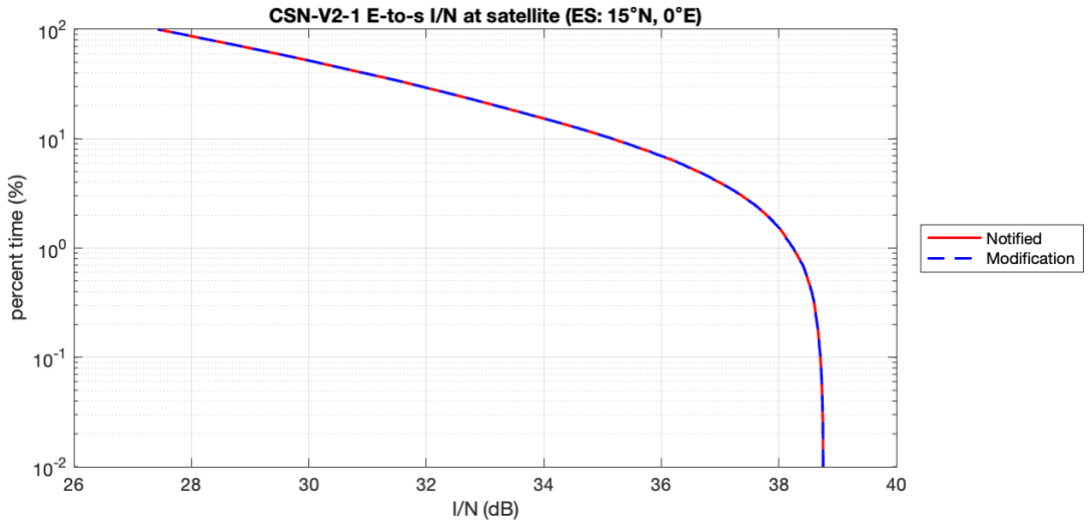

CSN-V1-3 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

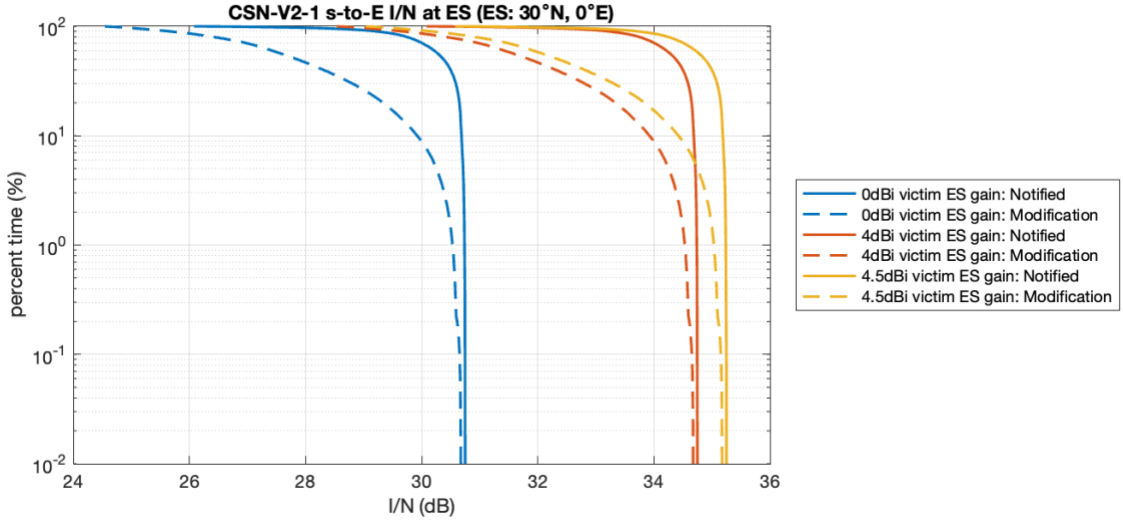

CSN-V1-3 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

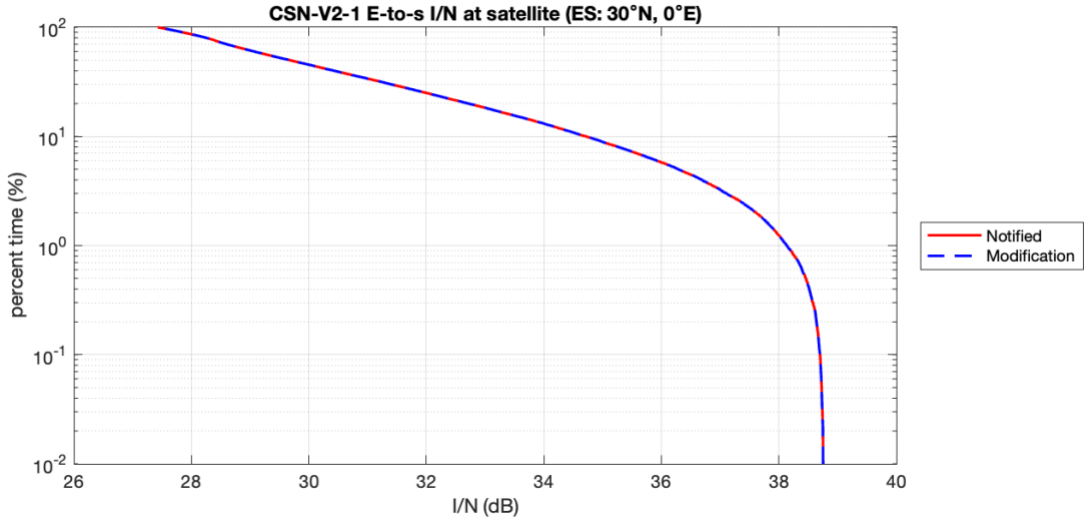

CSN-V2-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

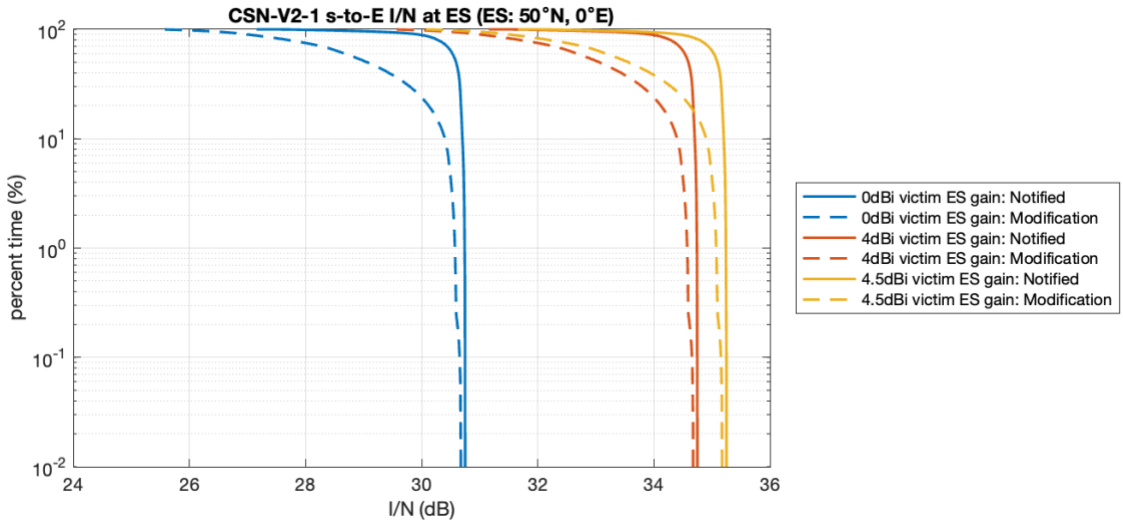

CSN-V2-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

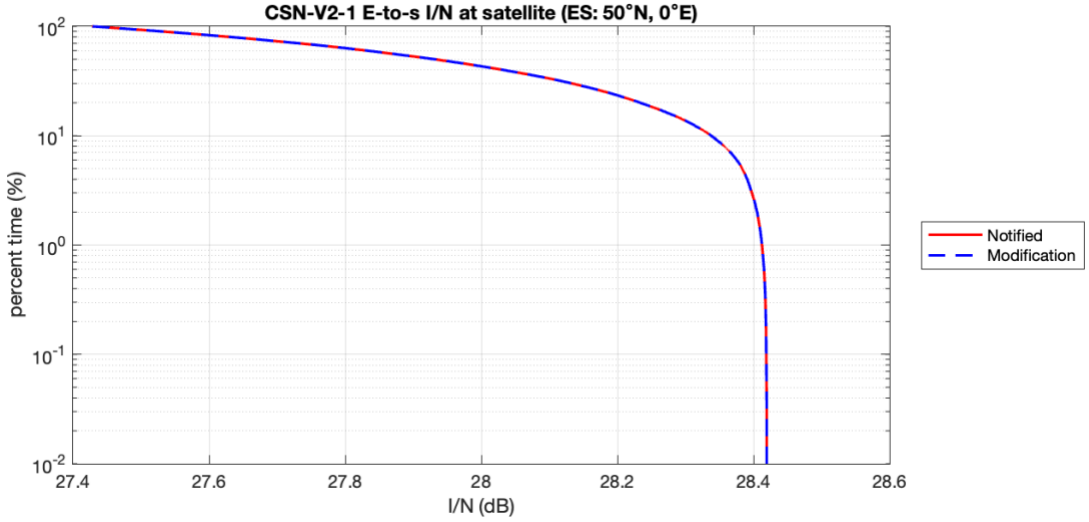

CSN-V2-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

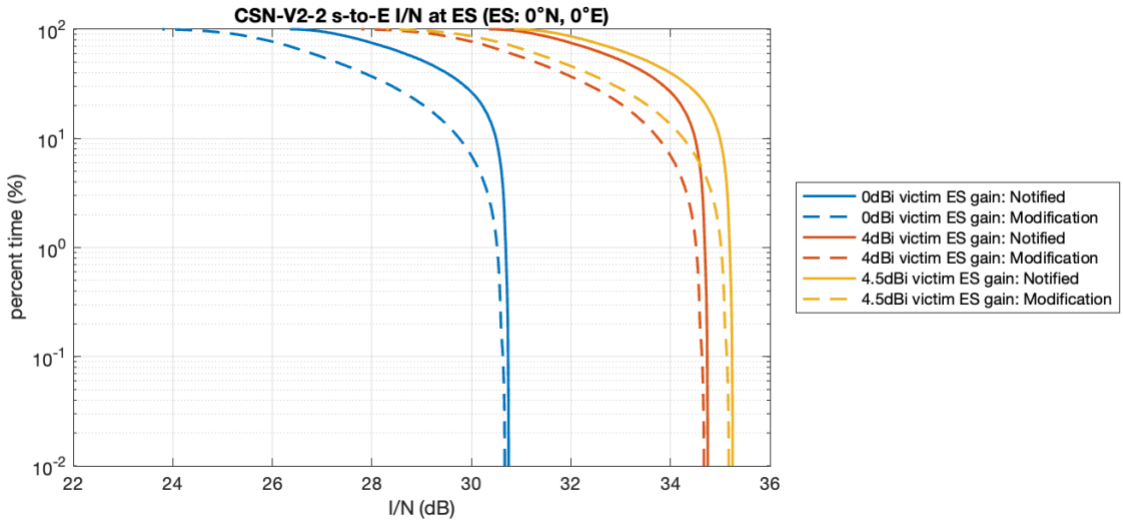

CSN-V2-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

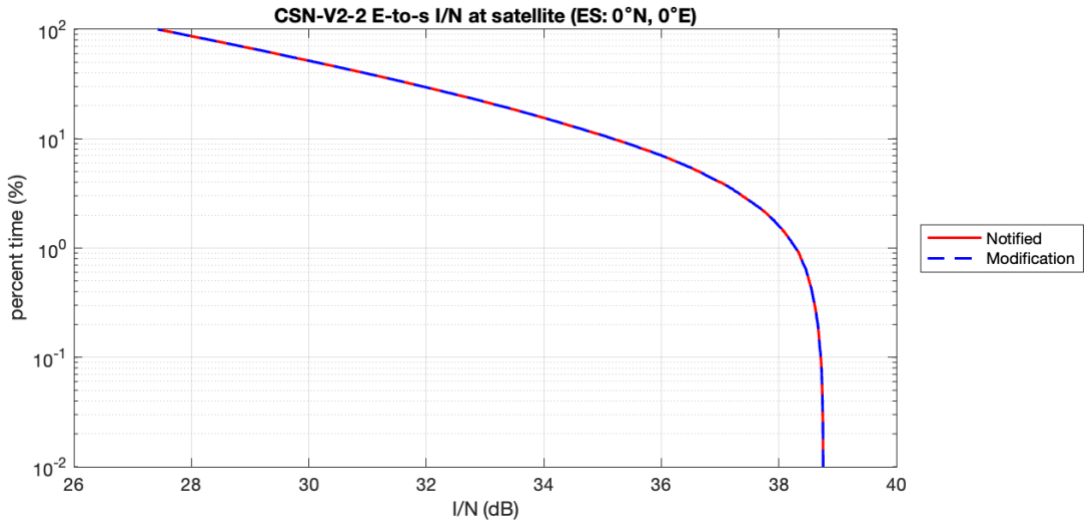

CSN-V2-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

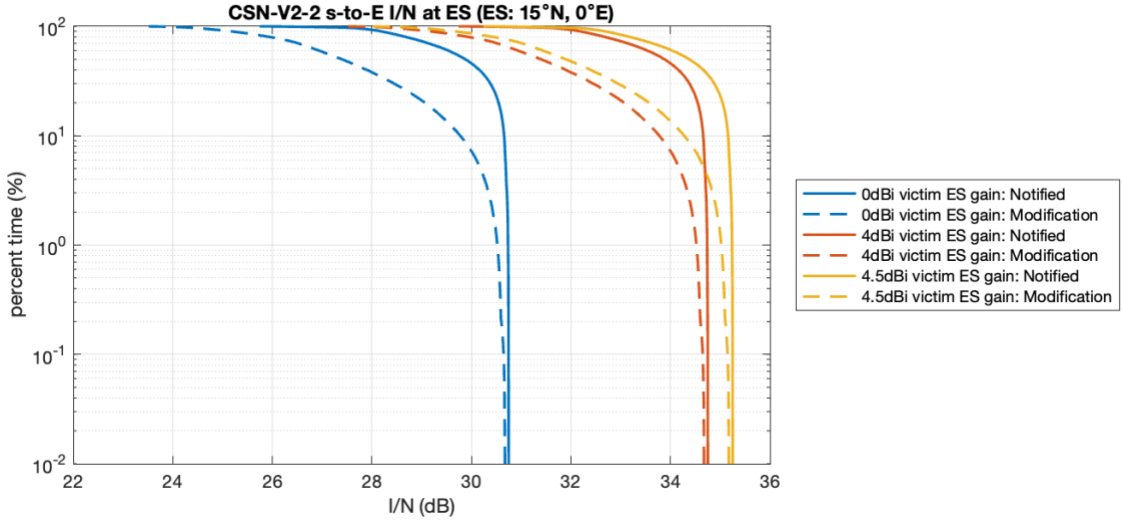

CSN-V2-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

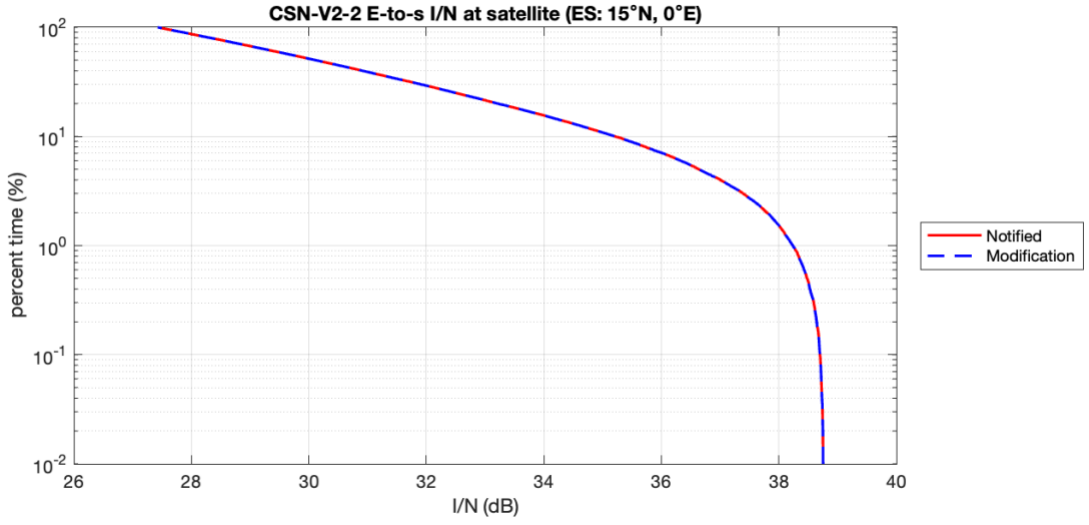

CSN-V2-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

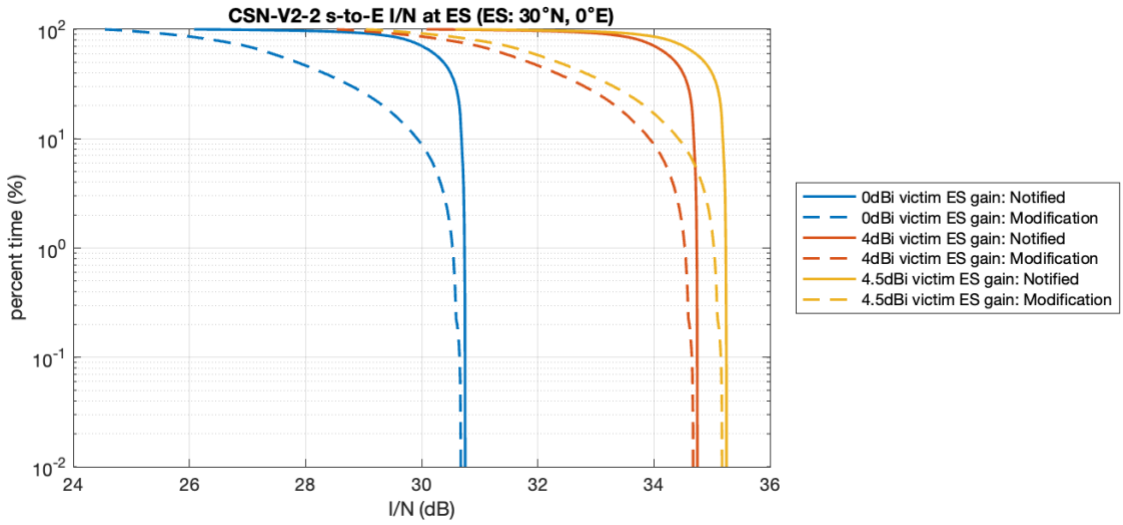

CSN-V2-1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

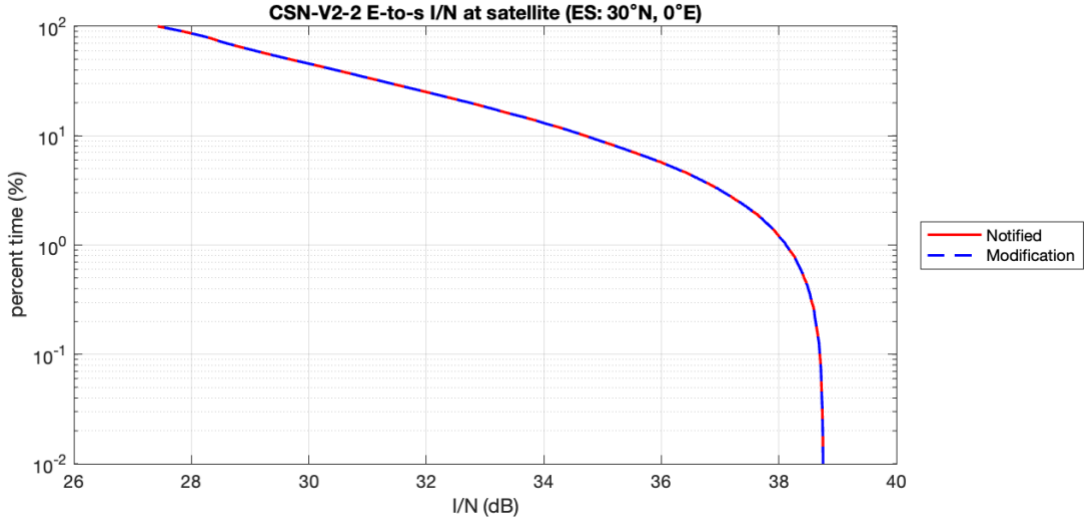

CSN-V2-2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

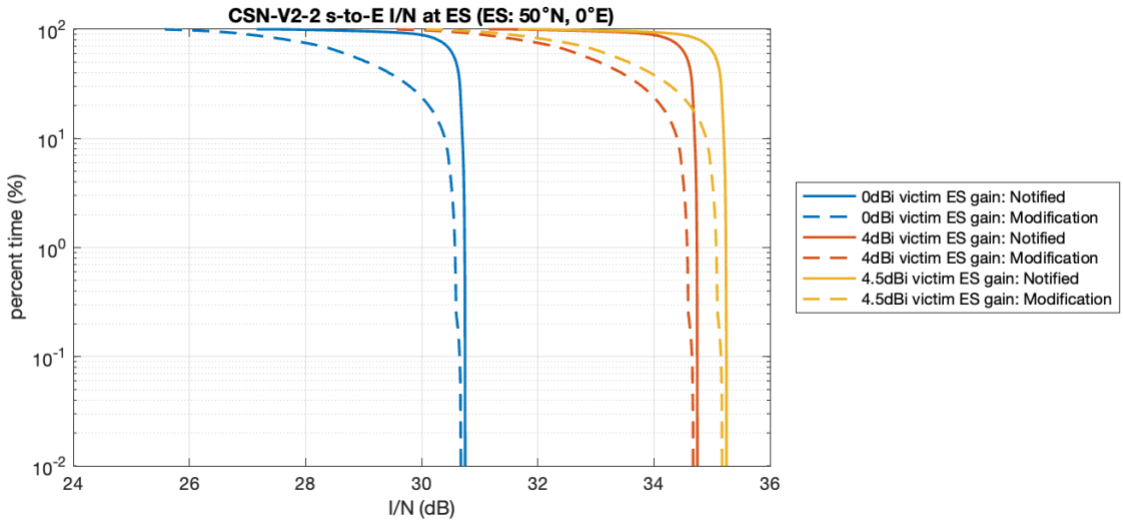

CSN-V2-2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

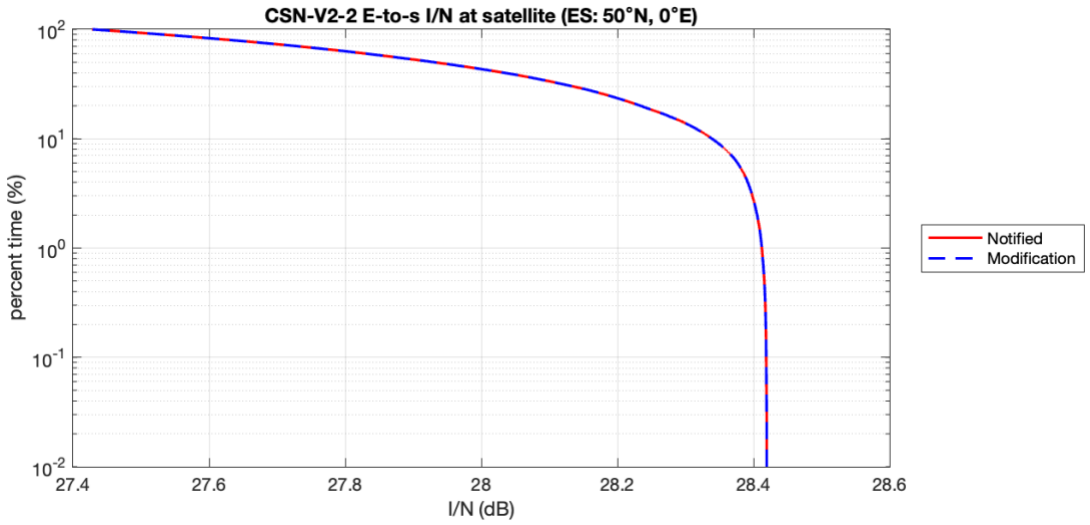

CSN-V2-2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

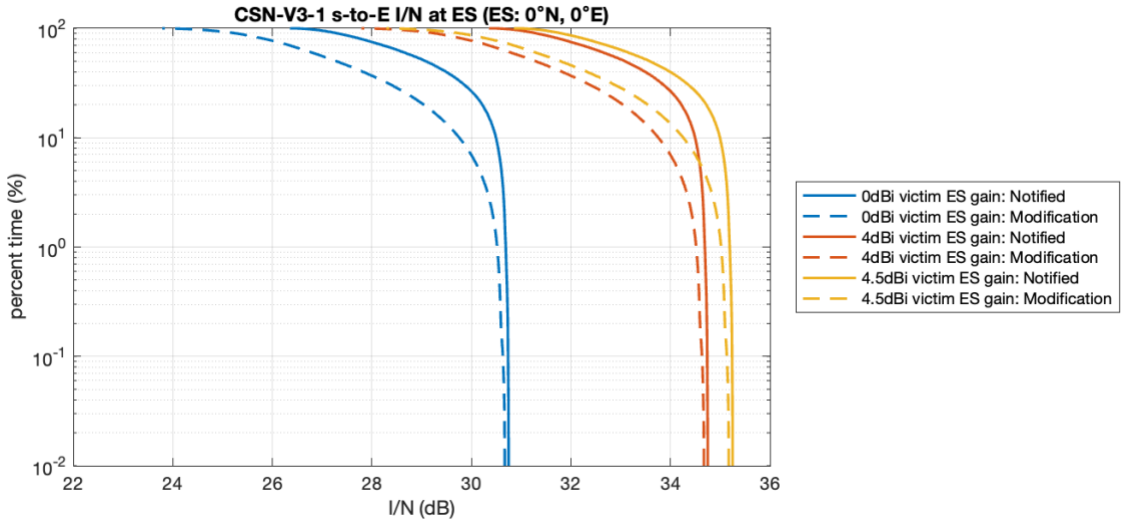

CSN-V2-2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

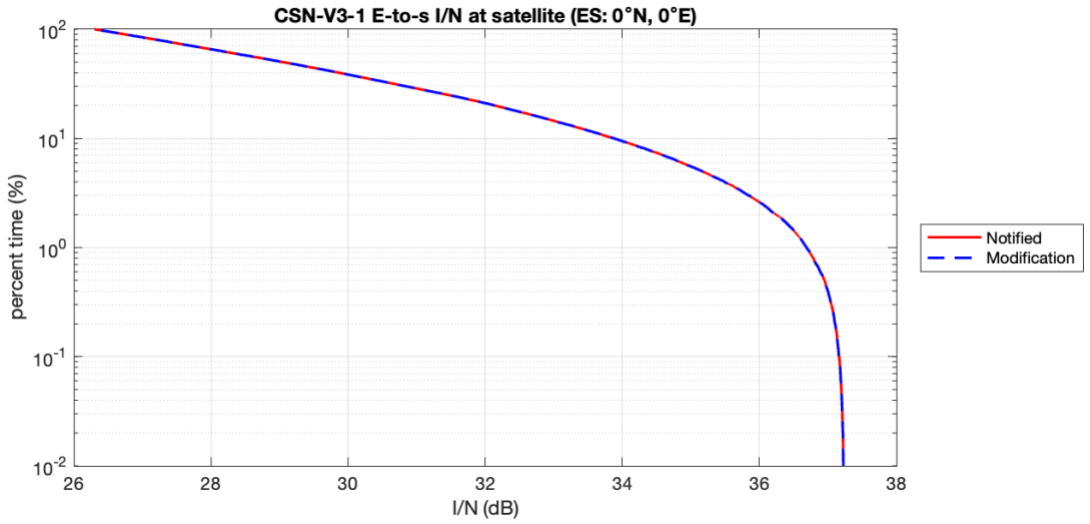

CSN-V2-2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

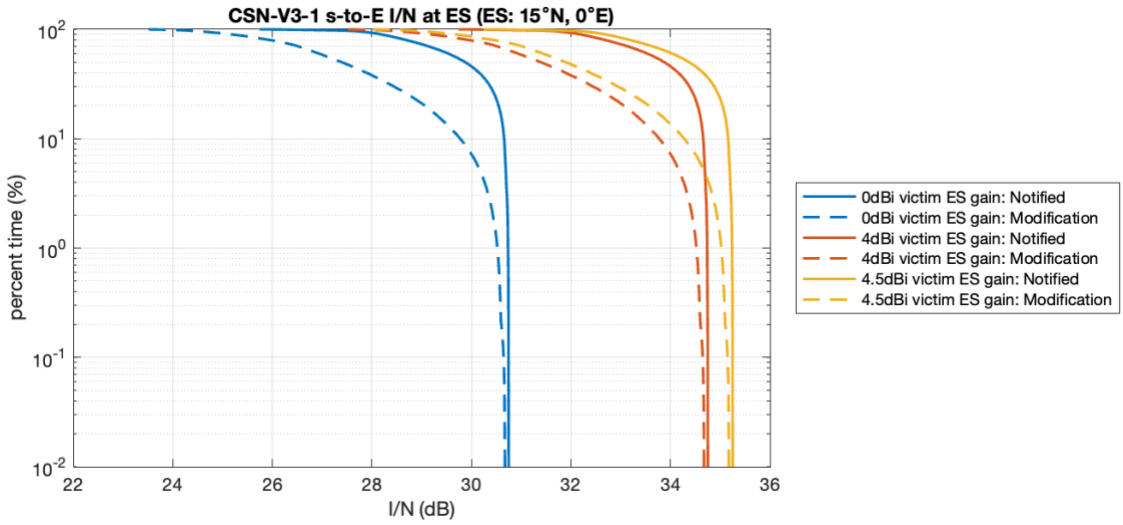

CSN-V2-2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

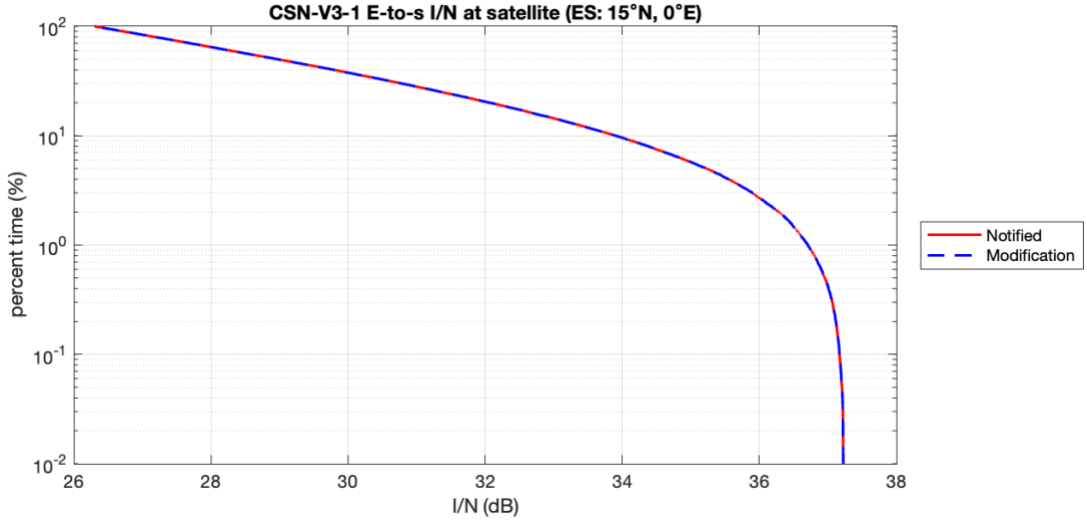

CSN-V2-2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

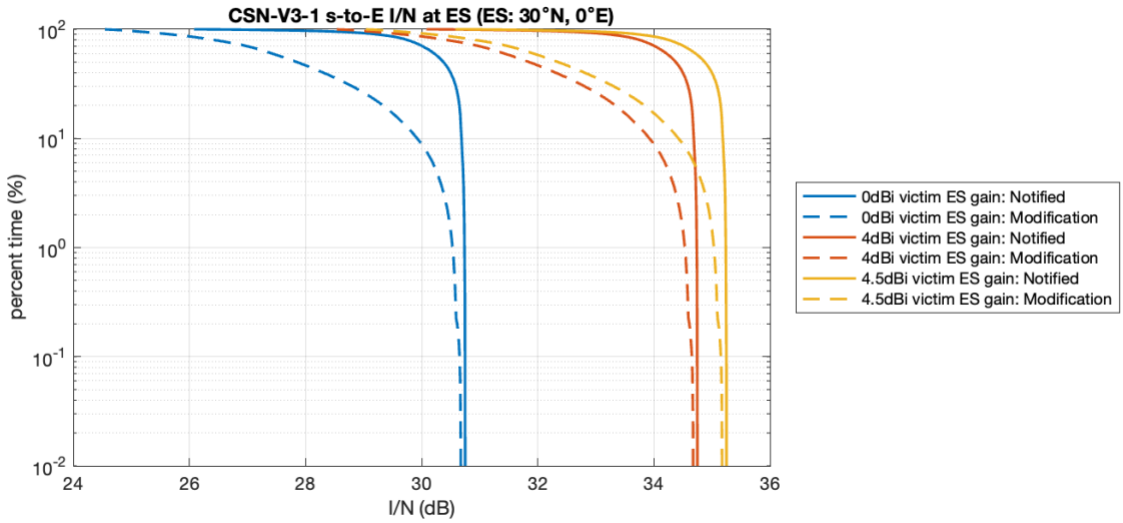

CSN-V2-2 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

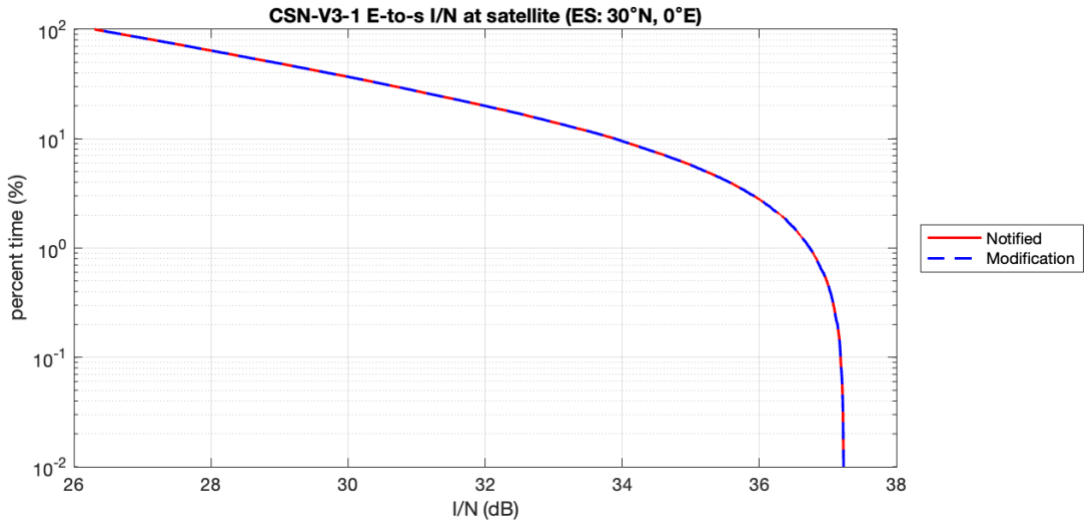

CSN-V3-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

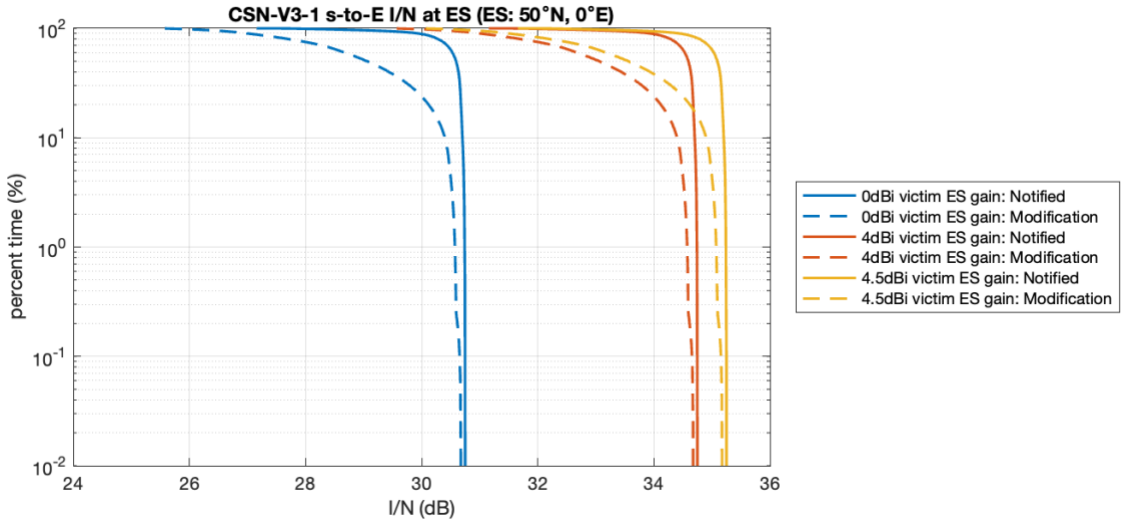

CSN-V3-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

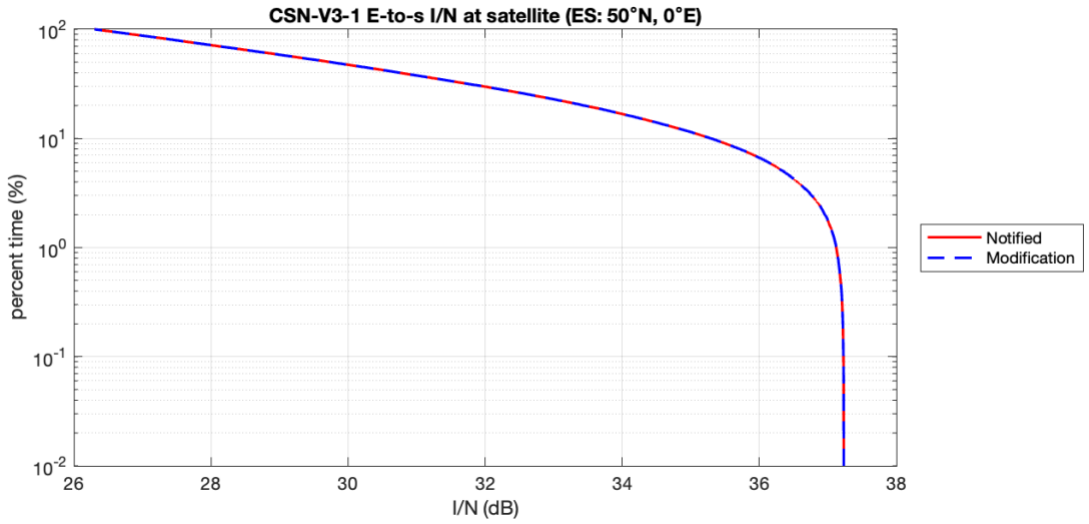

CSN-V3-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

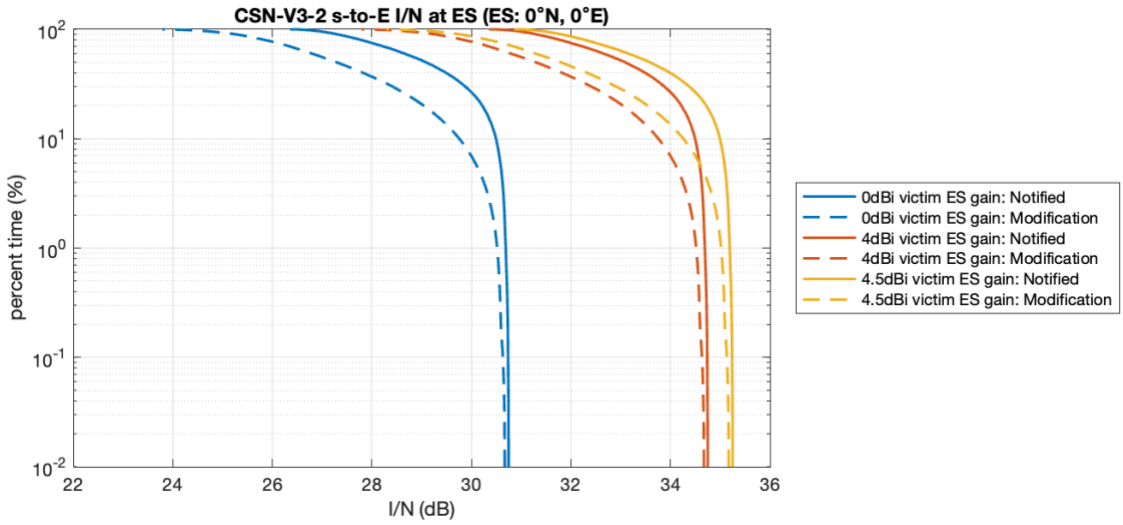

CSN-V3-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

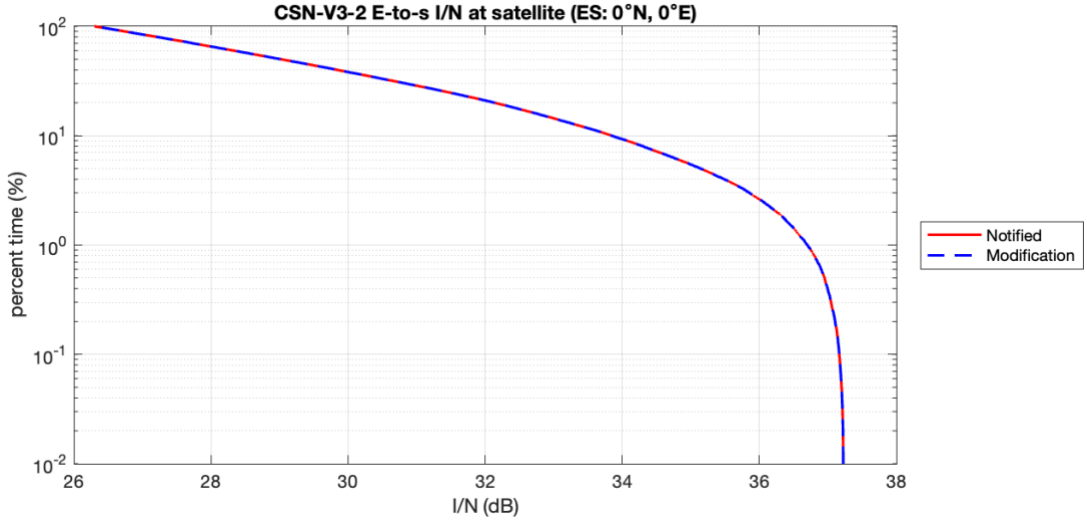

CSN-V3-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

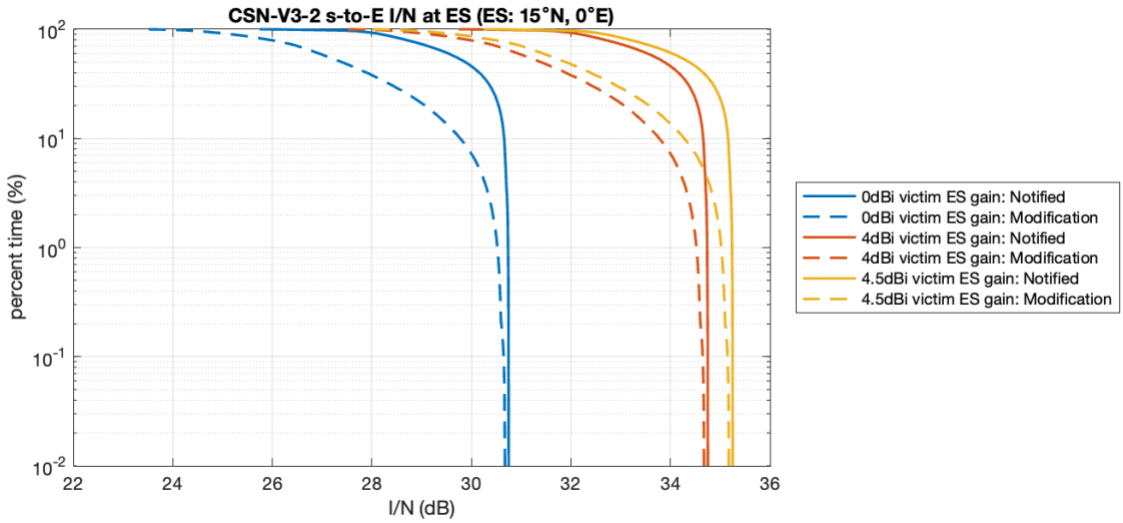

CSN-V3-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

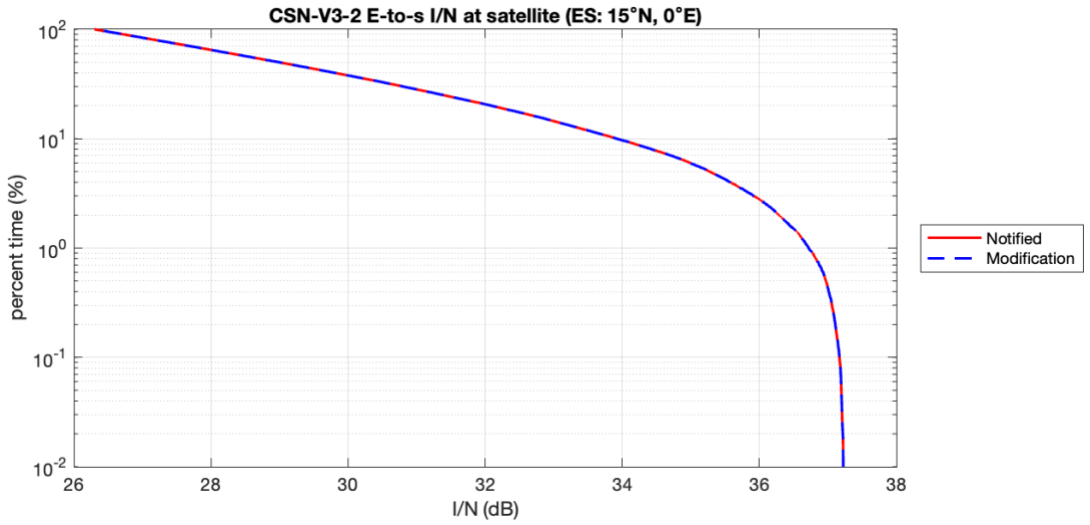

CSN-V3-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

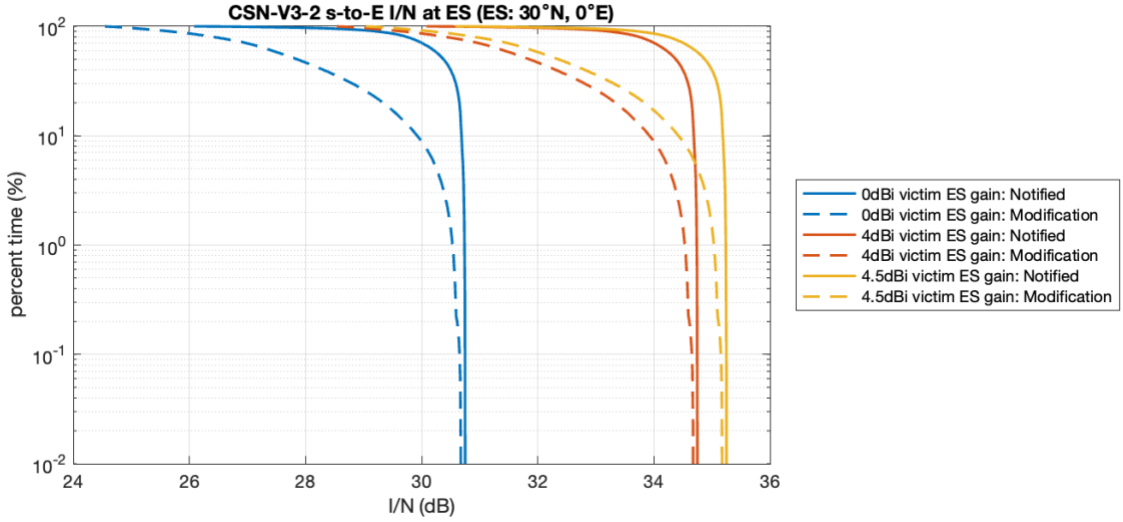

CSN-V3-1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

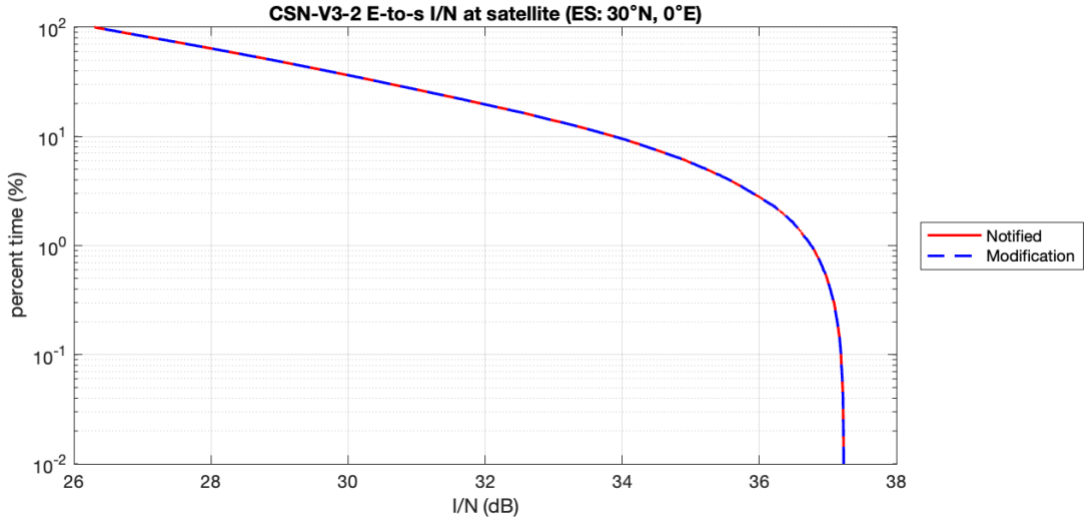

CSN-V3-2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

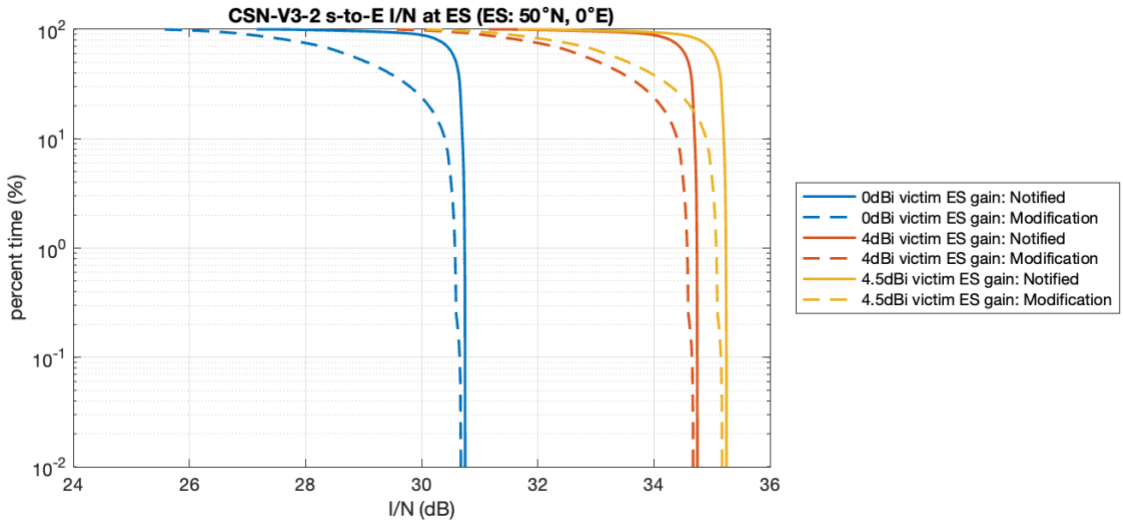

CSN-V3-2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

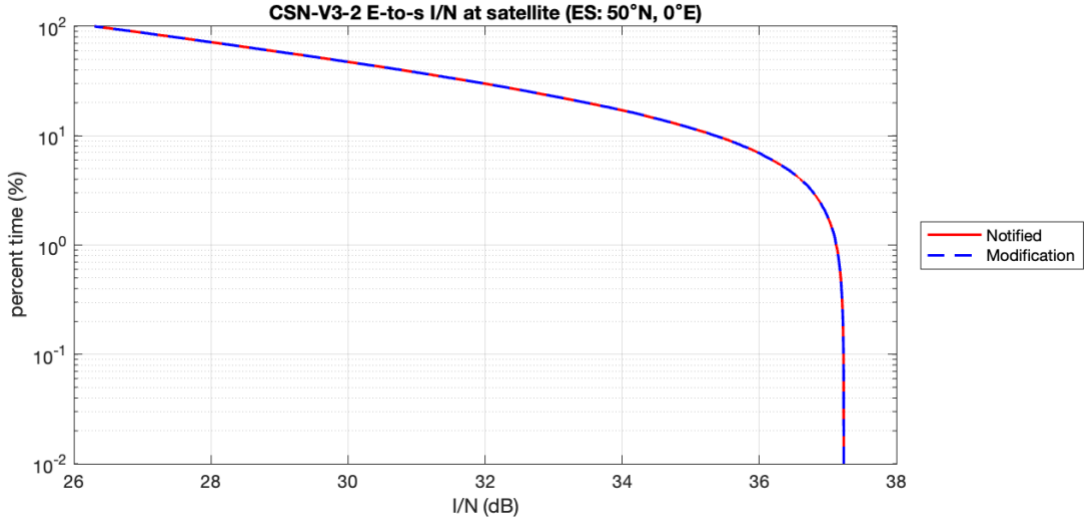

CSN-V3-2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

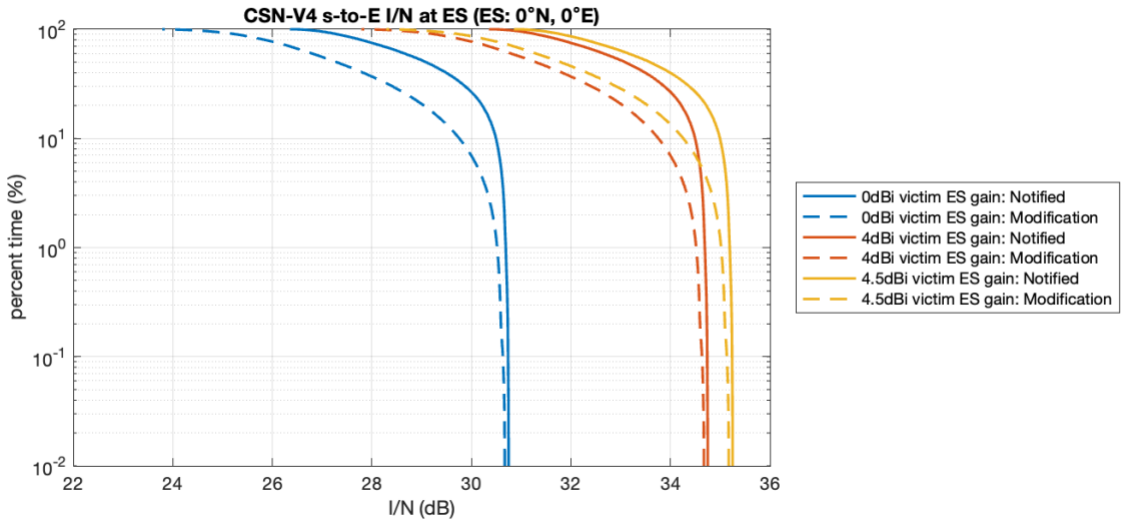

CSN-V3-2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

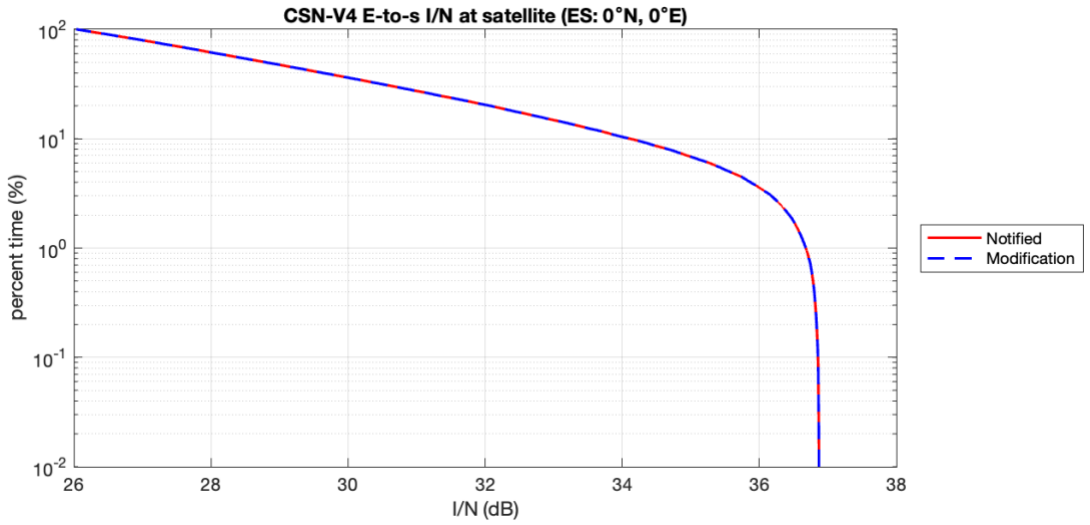

CSN-V3-2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

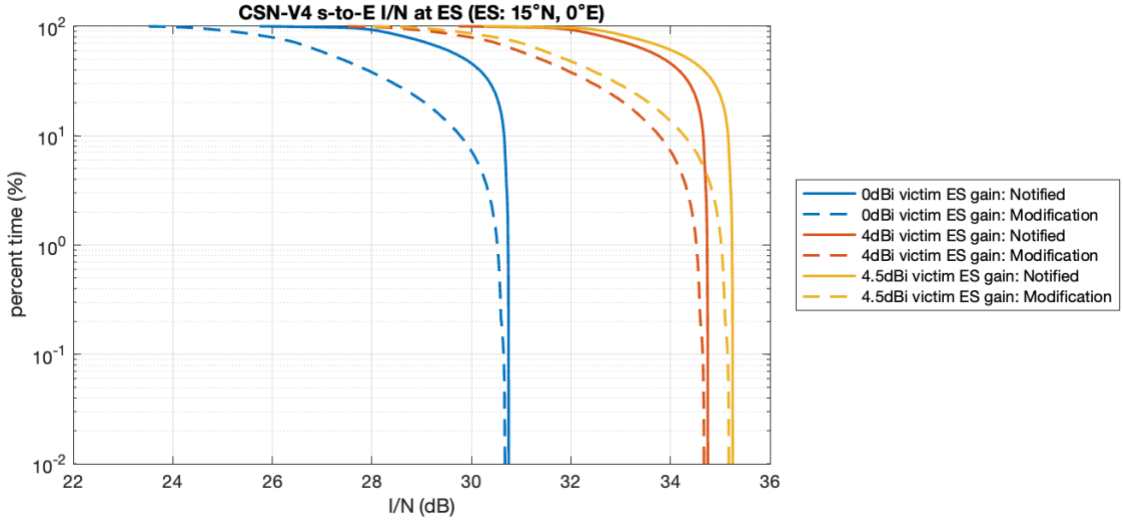

CSN-V3-2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

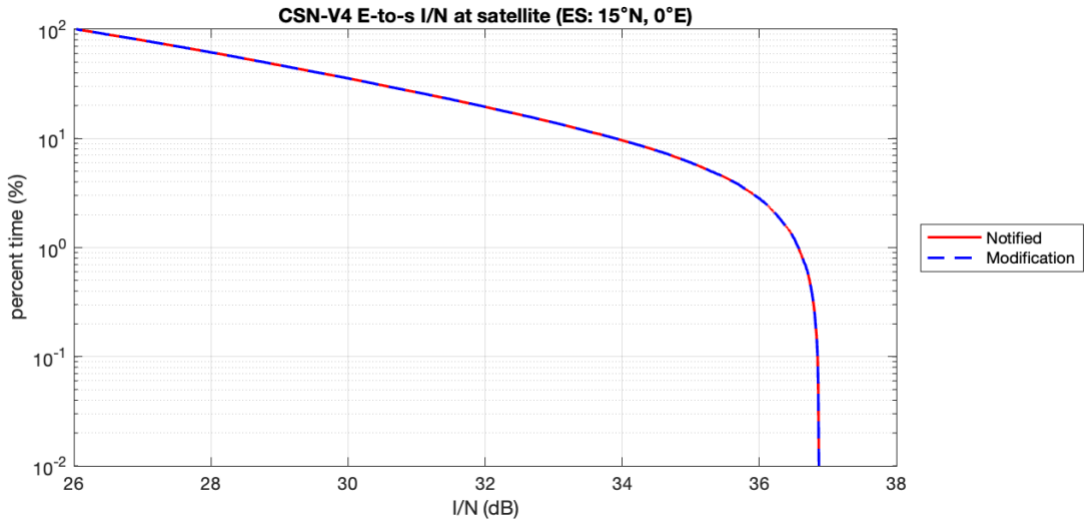

CSN-V3-2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

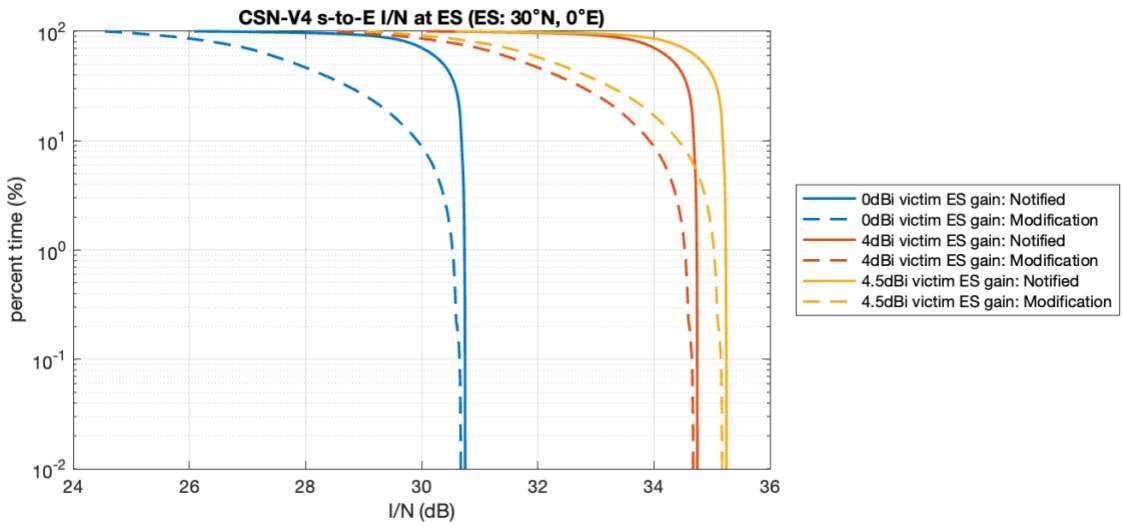

CSN-V3-2 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

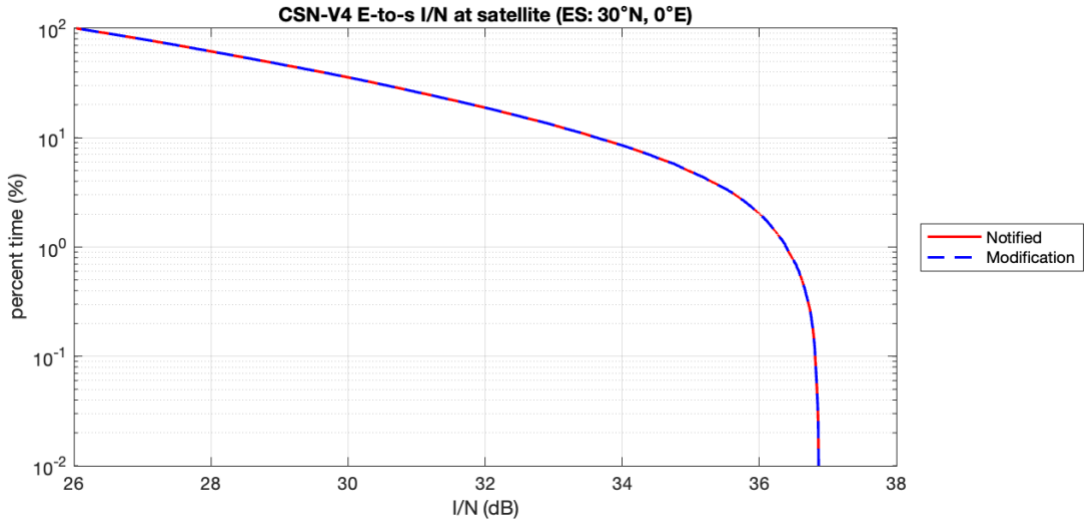

CSN-V4 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

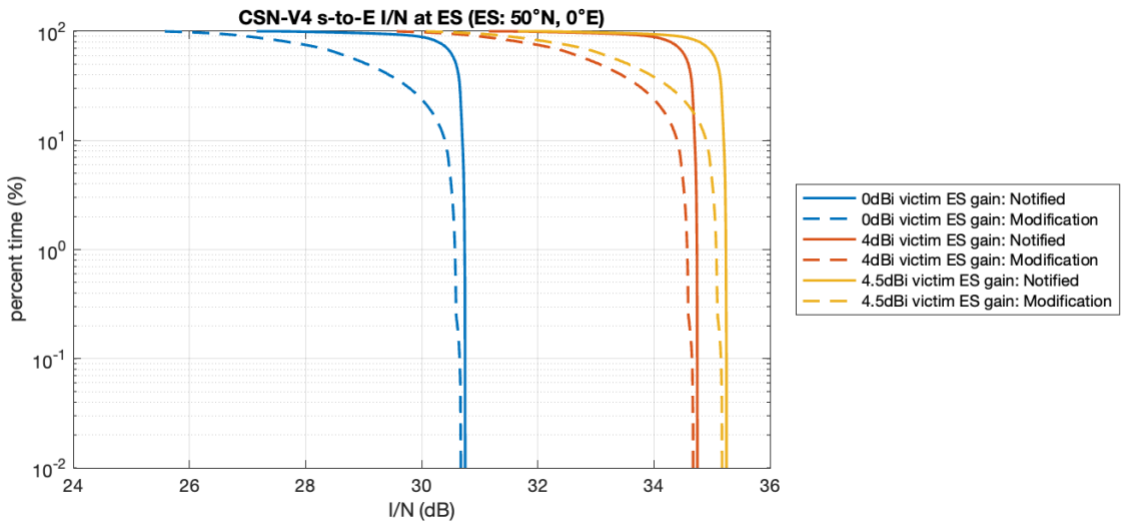

CSN-V4 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

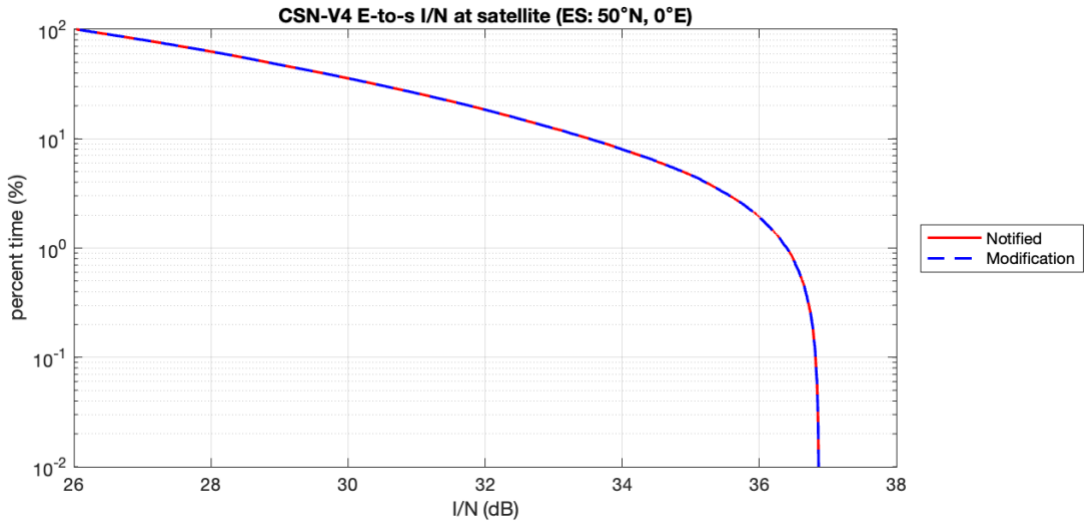

CSN-V4 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

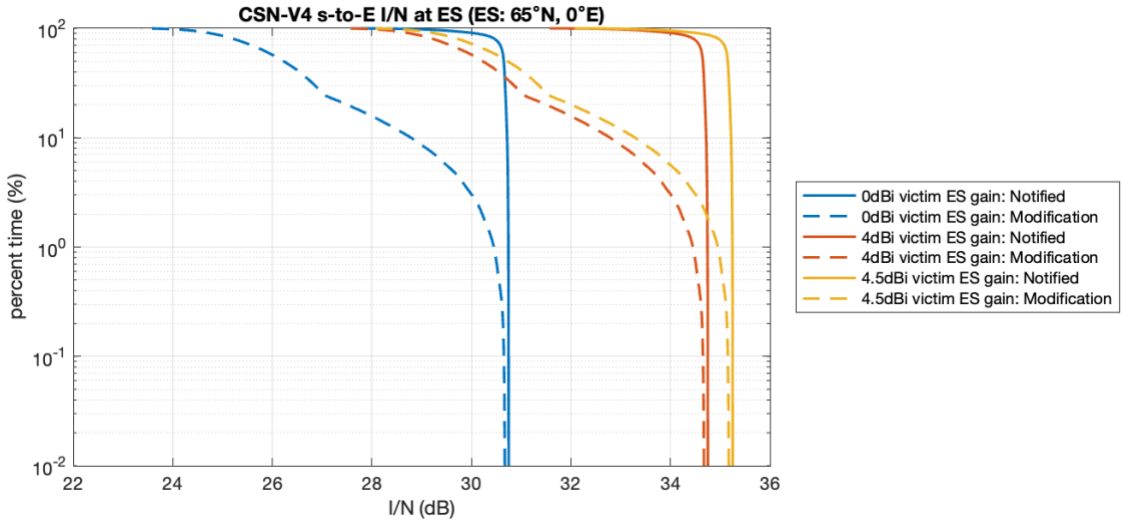

CSN-V4 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

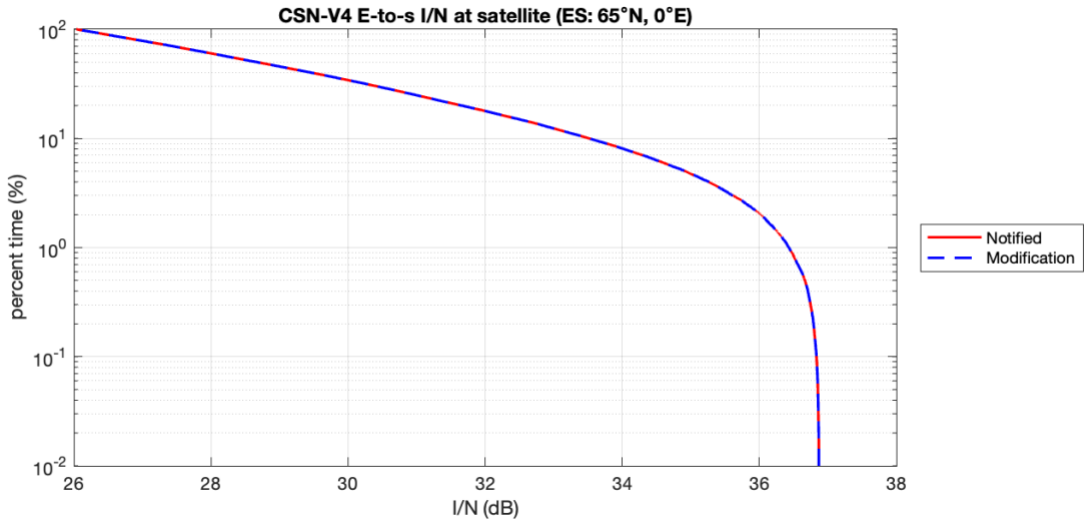

CSN-V4 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

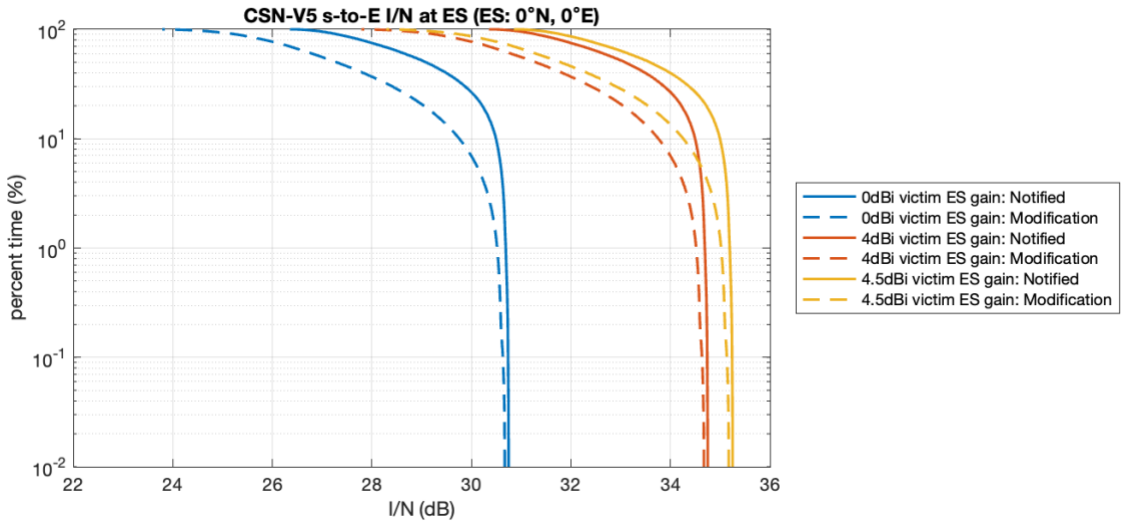

CSN-V4 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

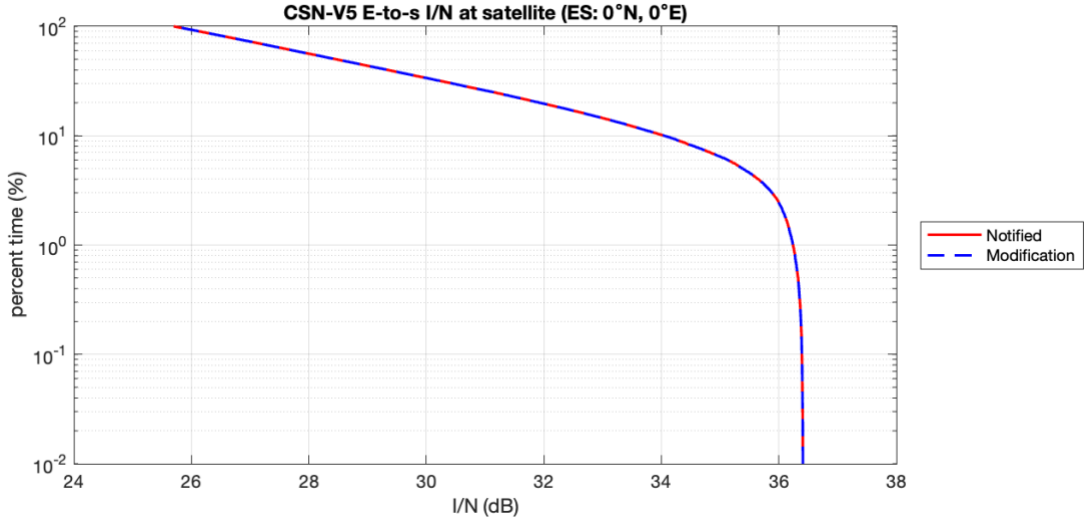

CSN-V4 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

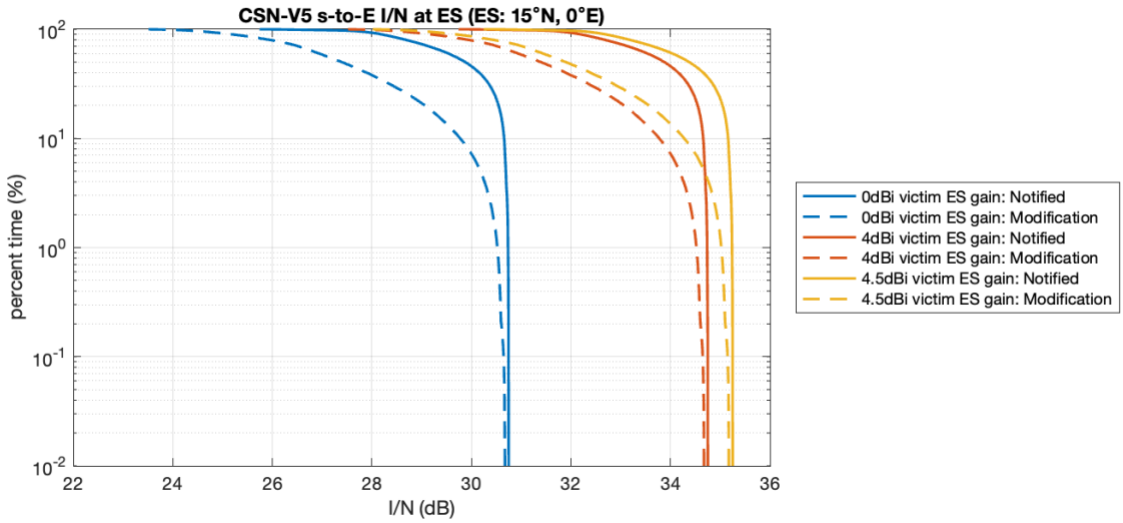

CSN-V4 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

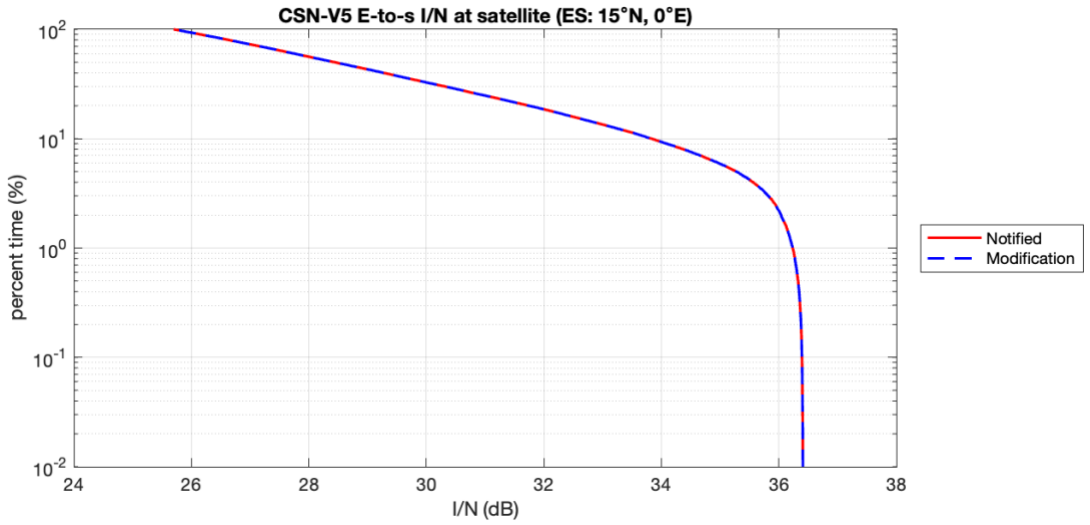

CSN-V4 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

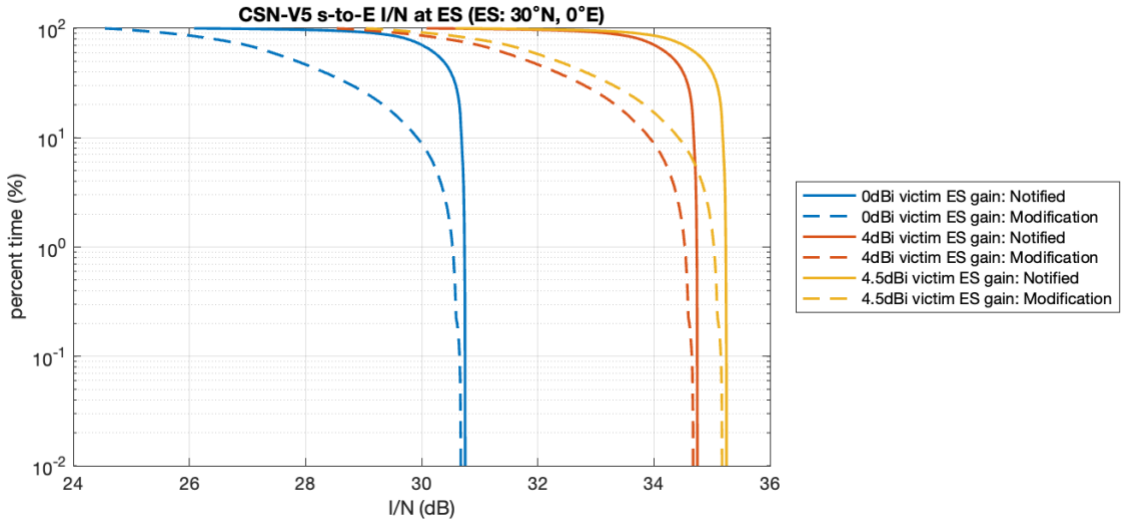

CSN-V4 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

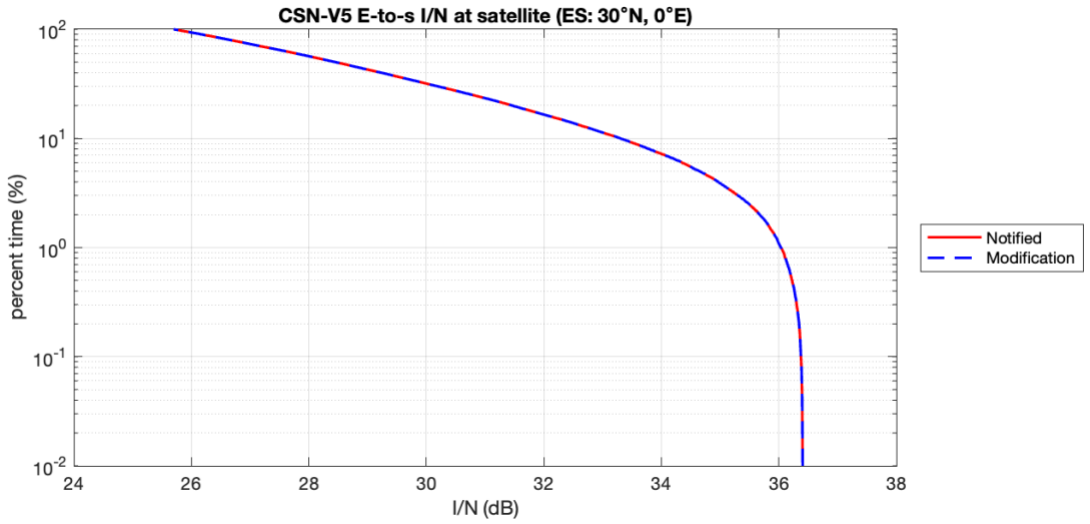

CSN-V5 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

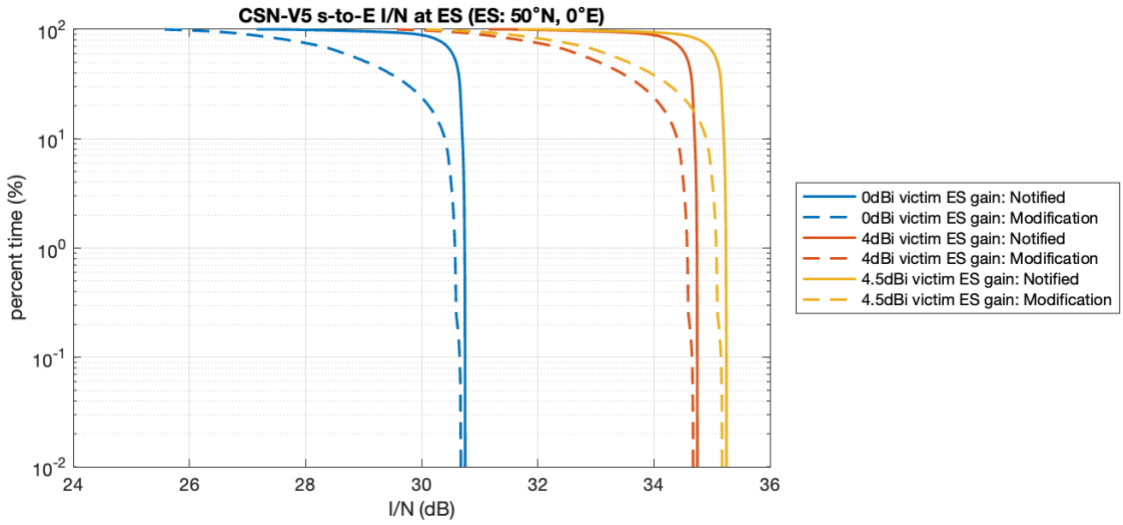

CSN-V5 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

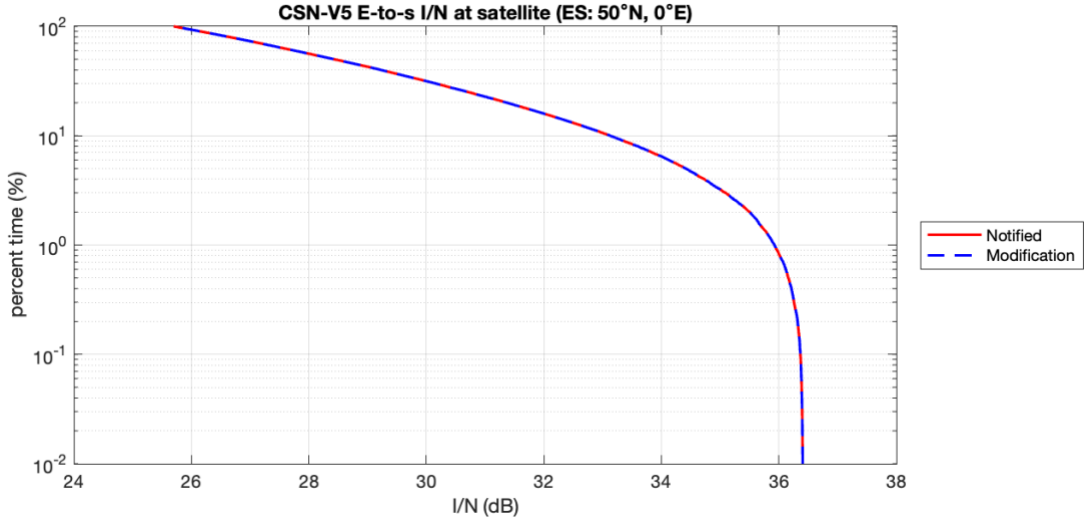

CSN-V5 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

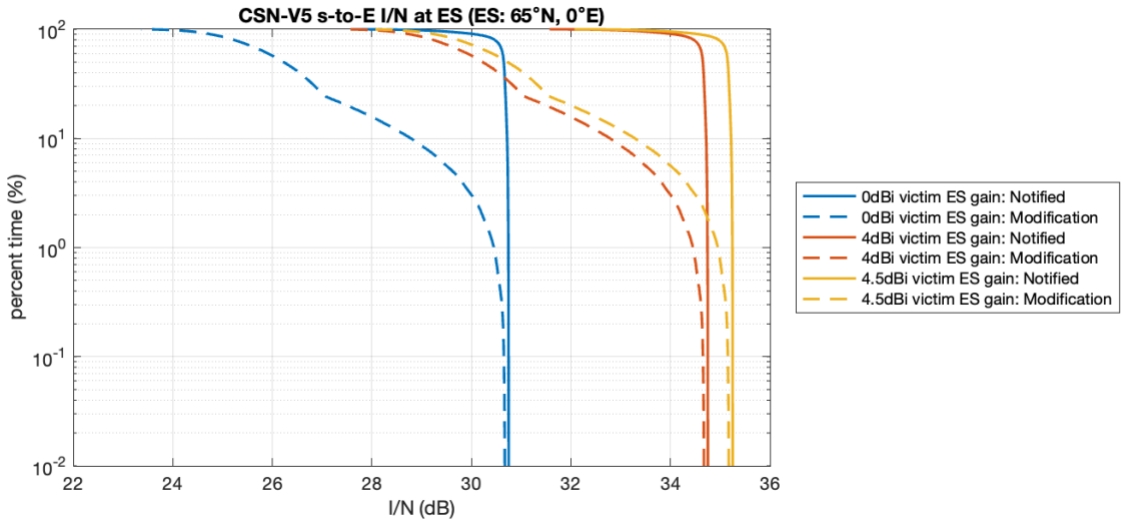

CSN-V5 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

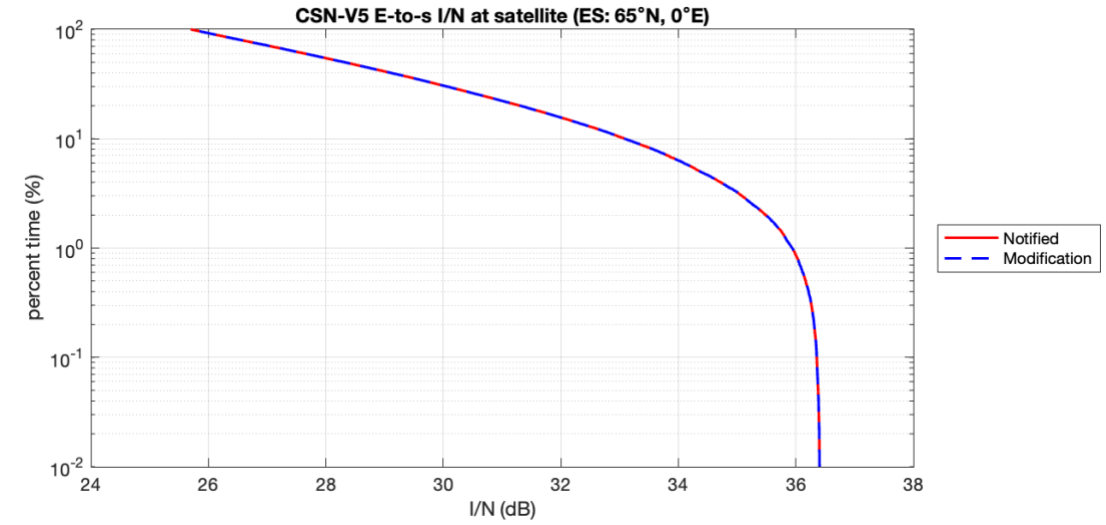

CSN-V5 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

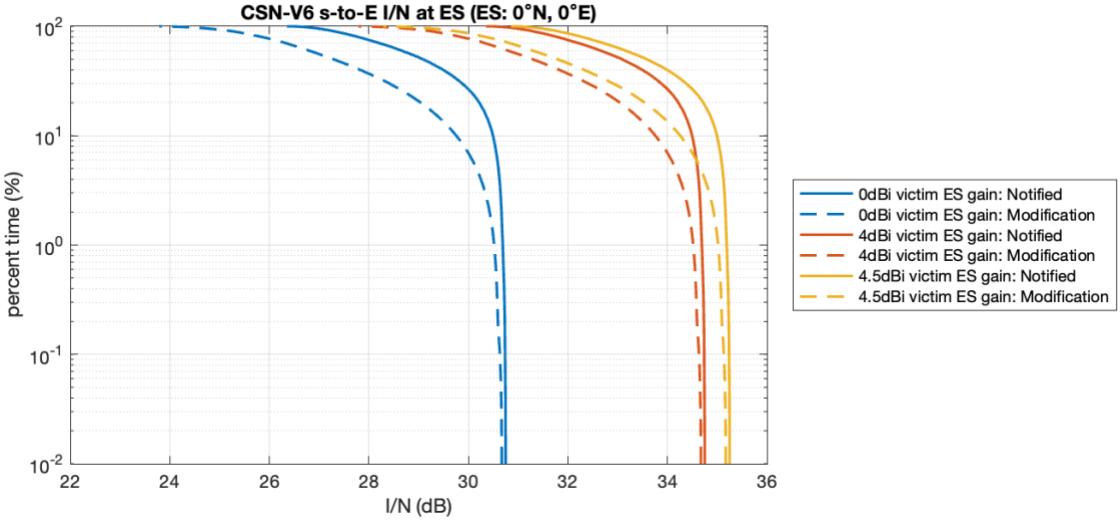

CSN-V5 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

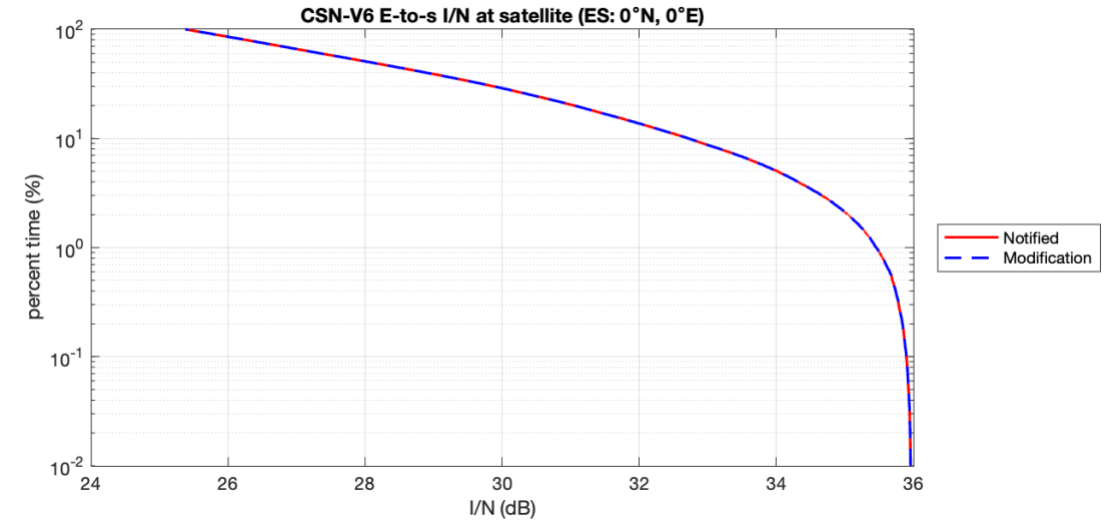

CSN-V5 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

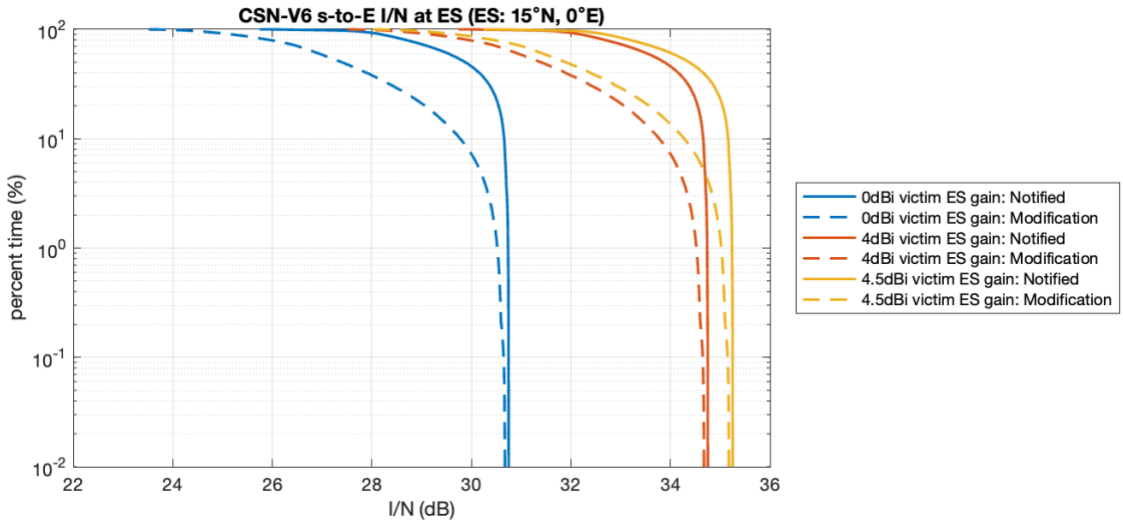

CSN-V5 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

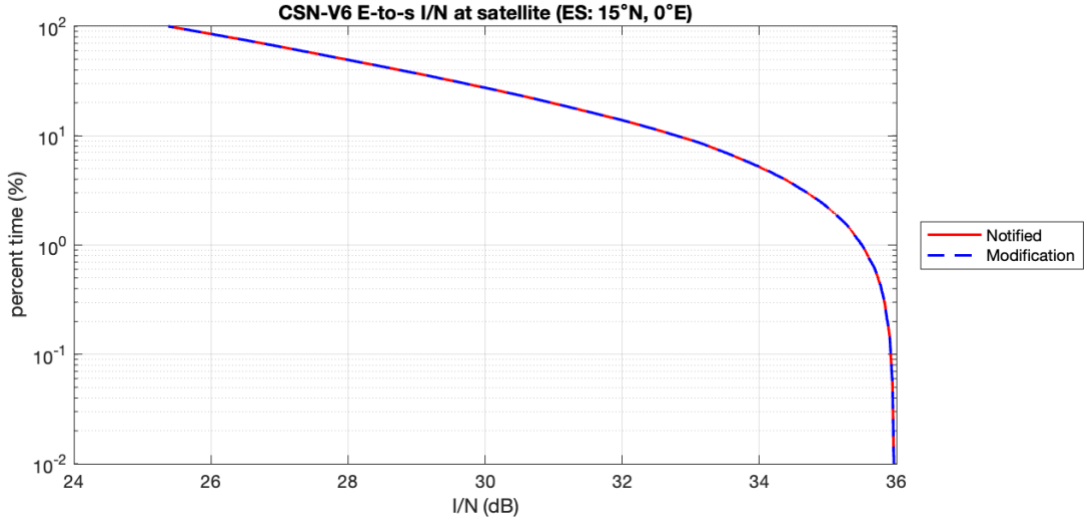

CSN-V5 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

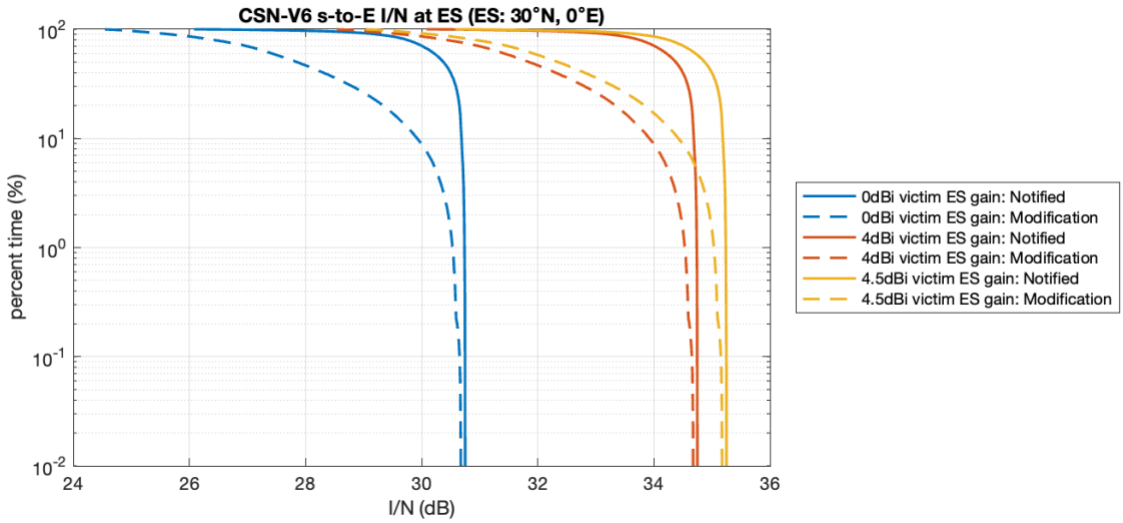

CSN-V5 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

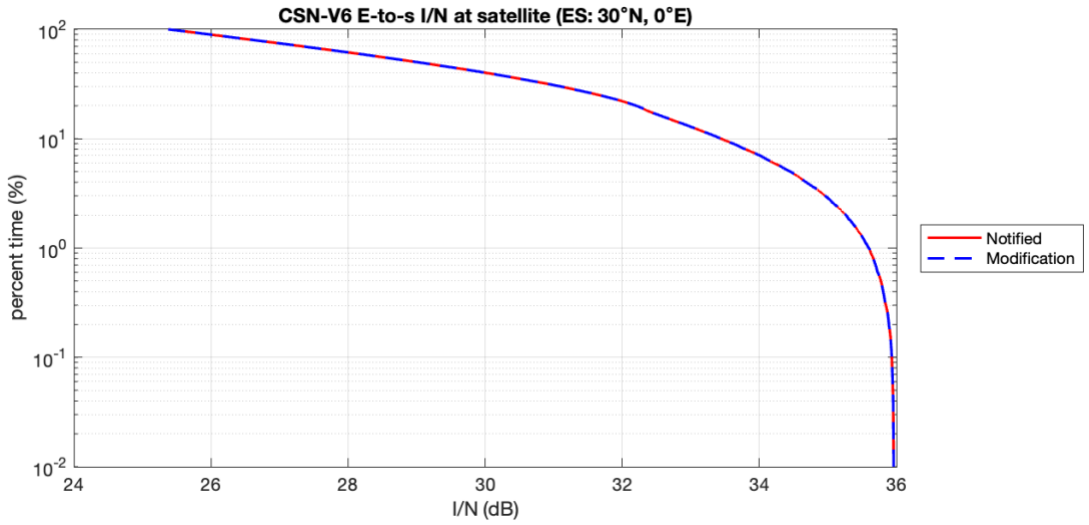

CSN-V6 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

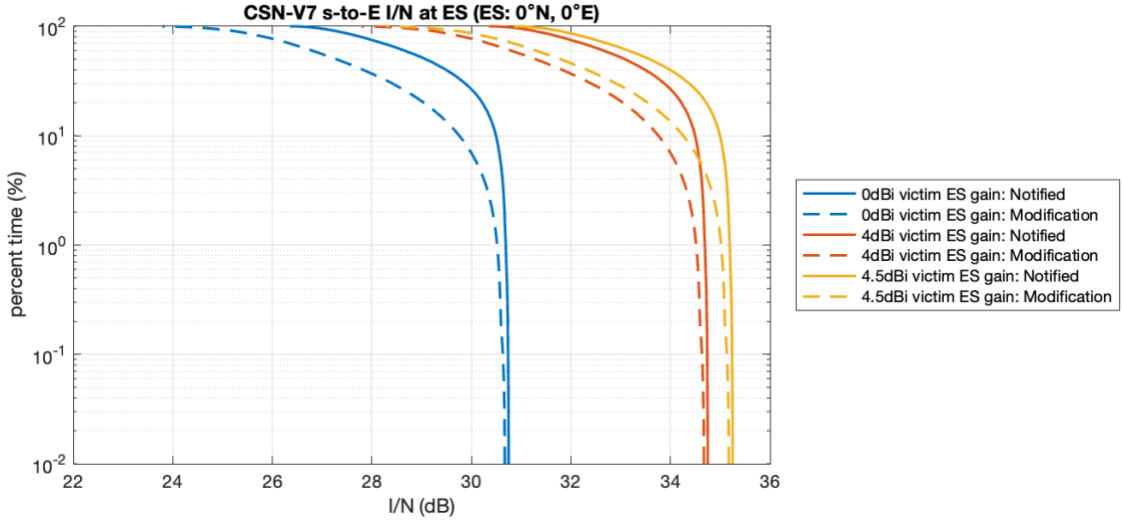

CSN-V6 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

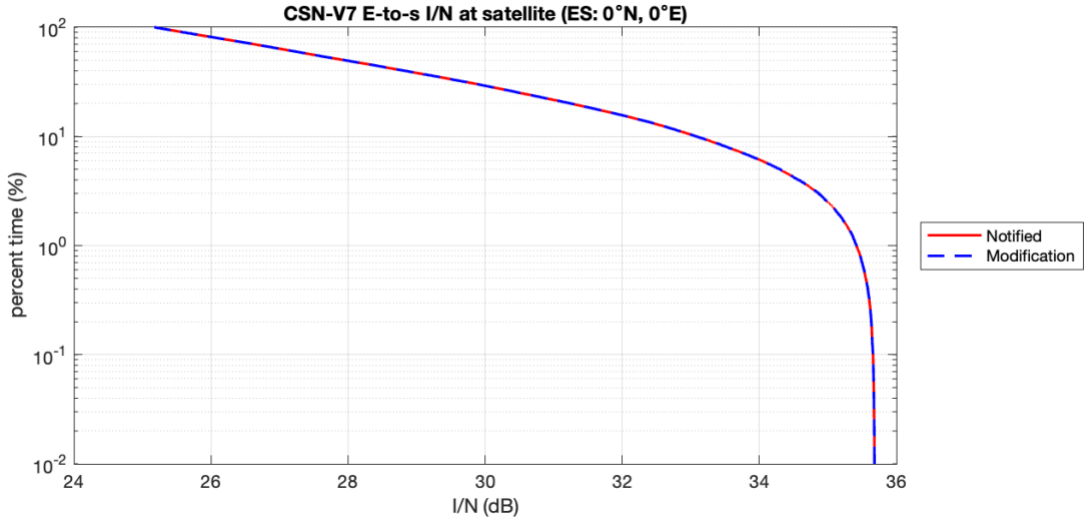

CSN-V6 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

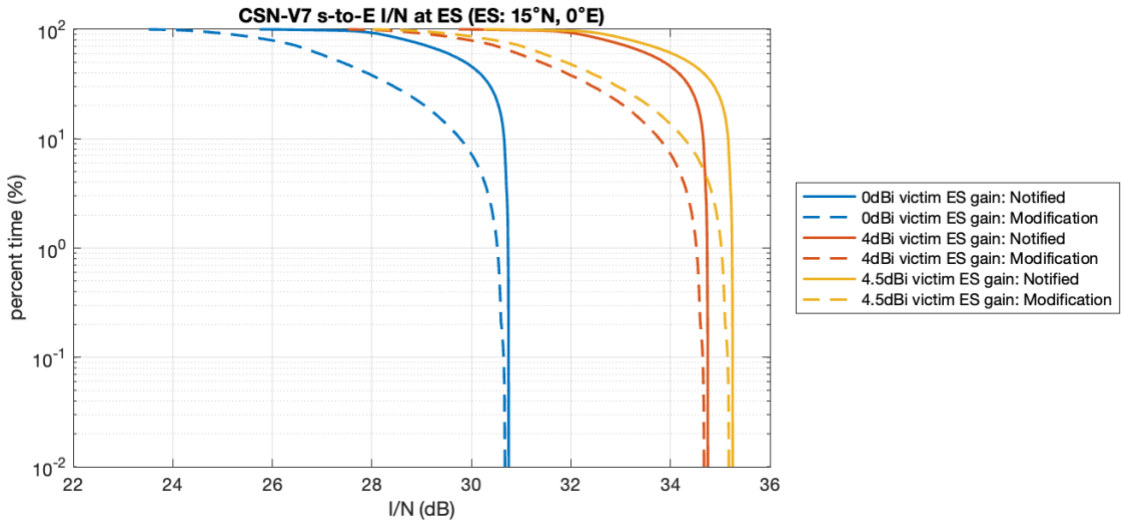

CSN-V6 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

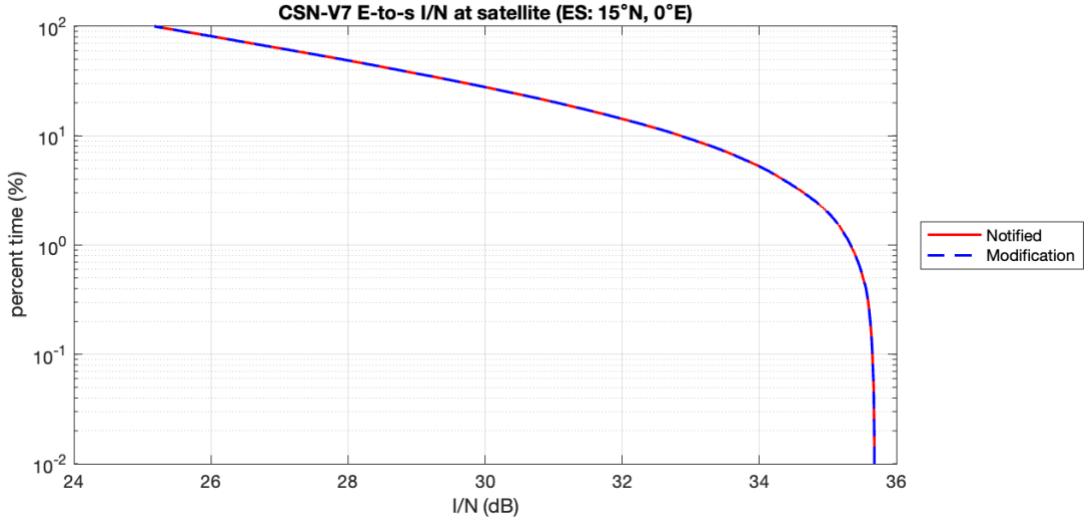

CSN-V6 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

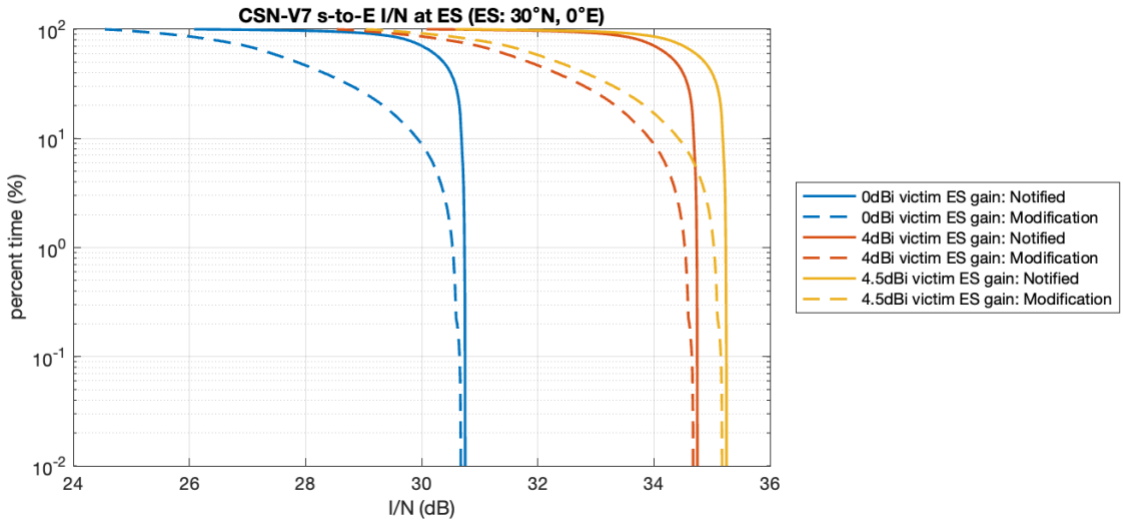

CSN-V6 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

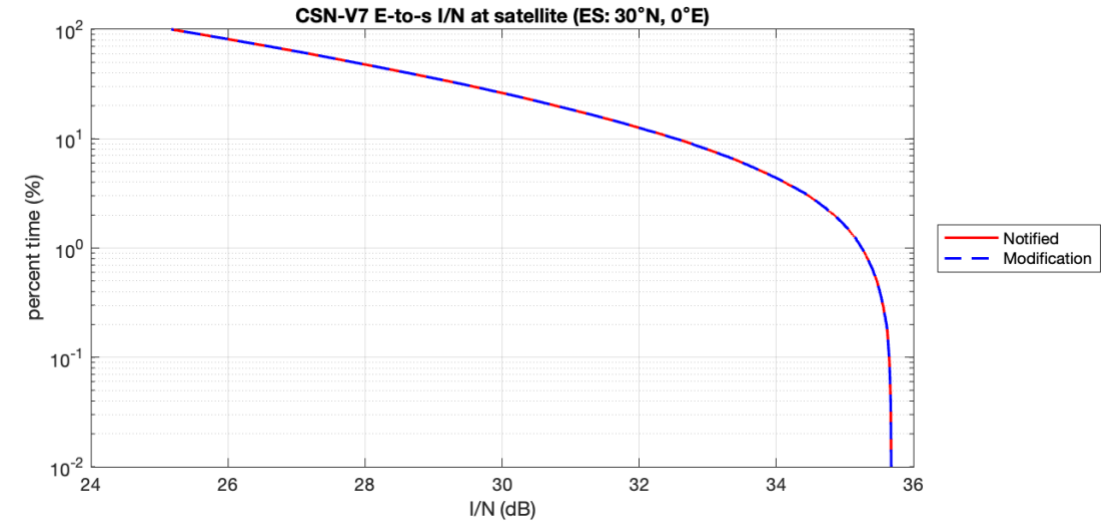

CSN-V7 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

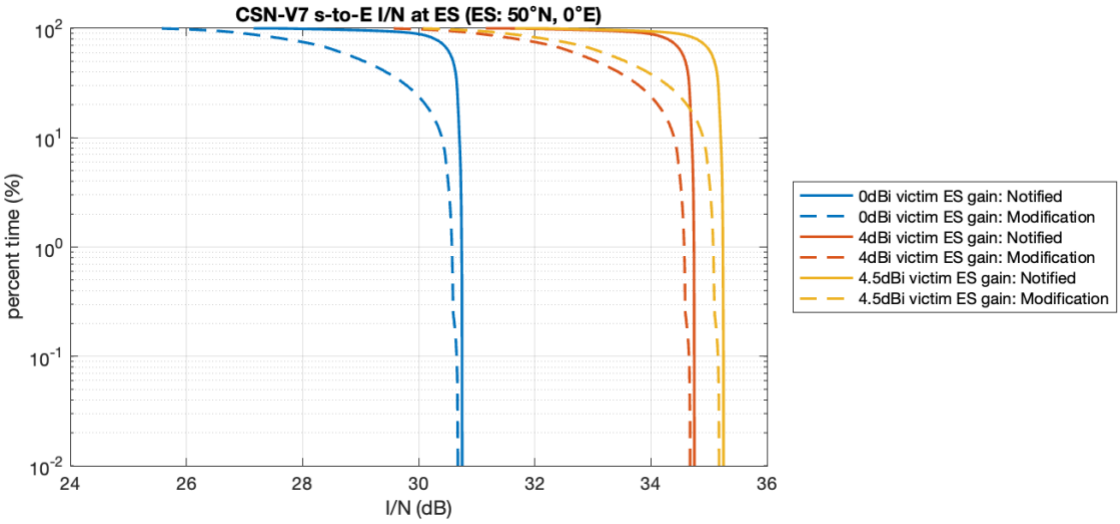

CSN-V7 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

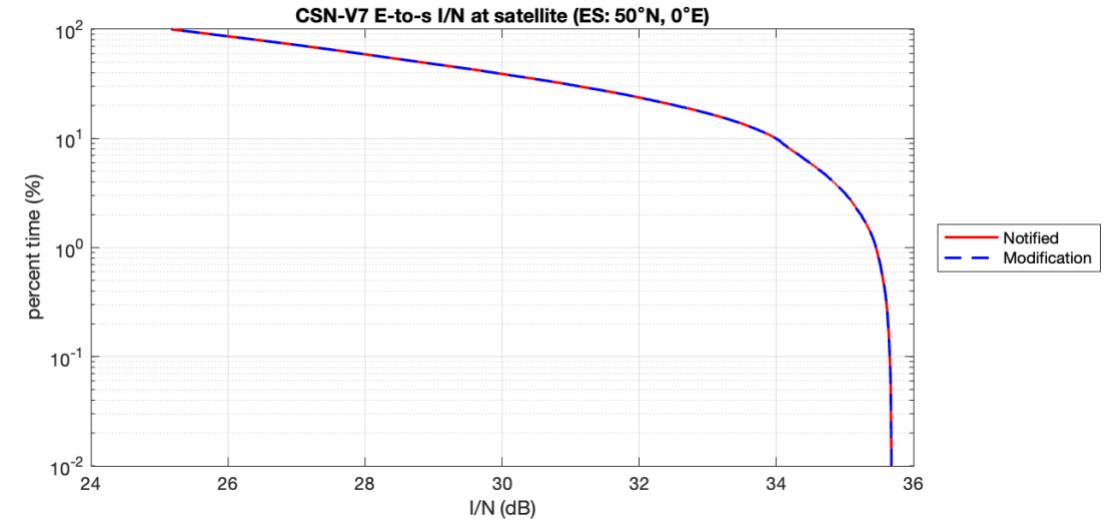

CSN-V7 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

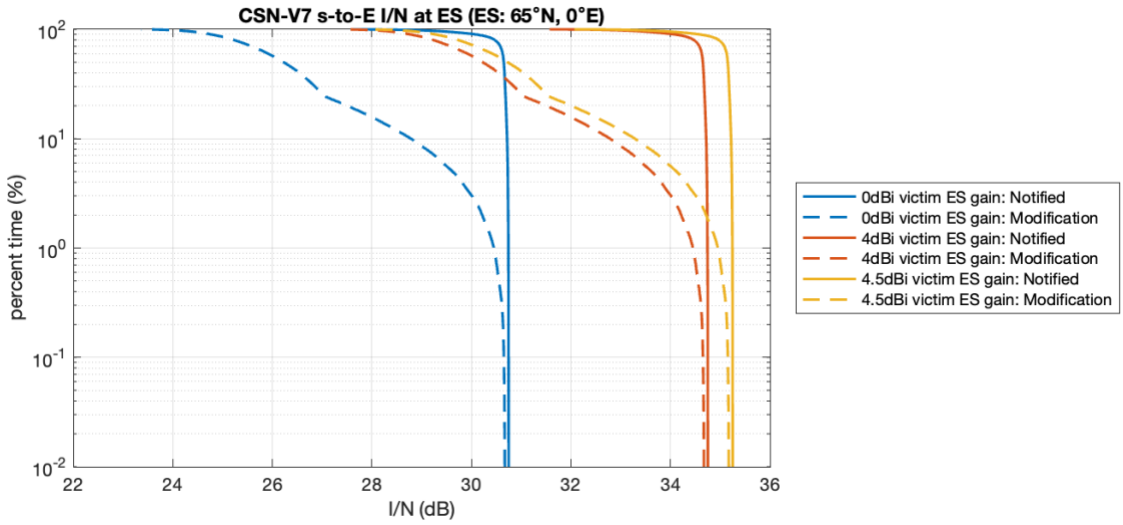

CSN-V7 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

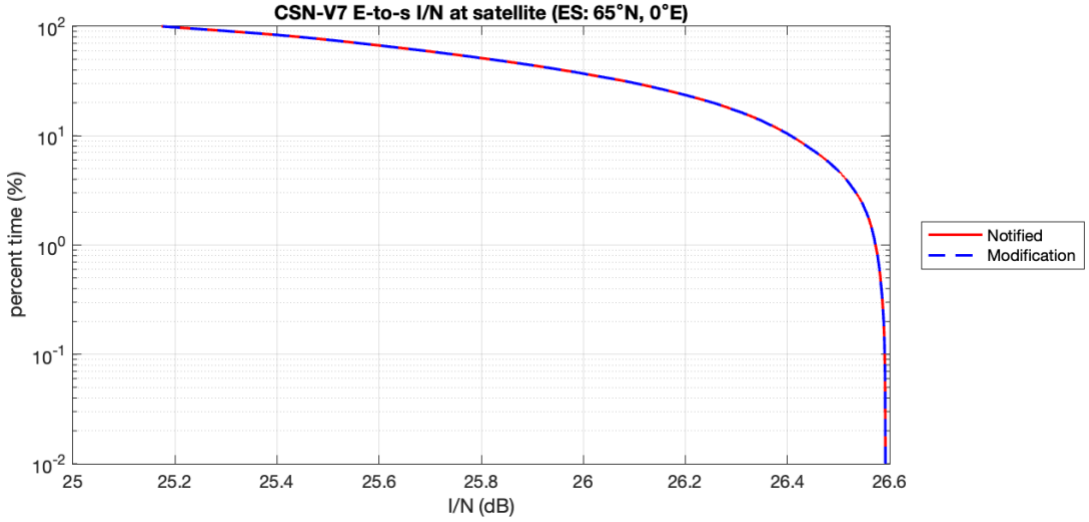

CSN-V7 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

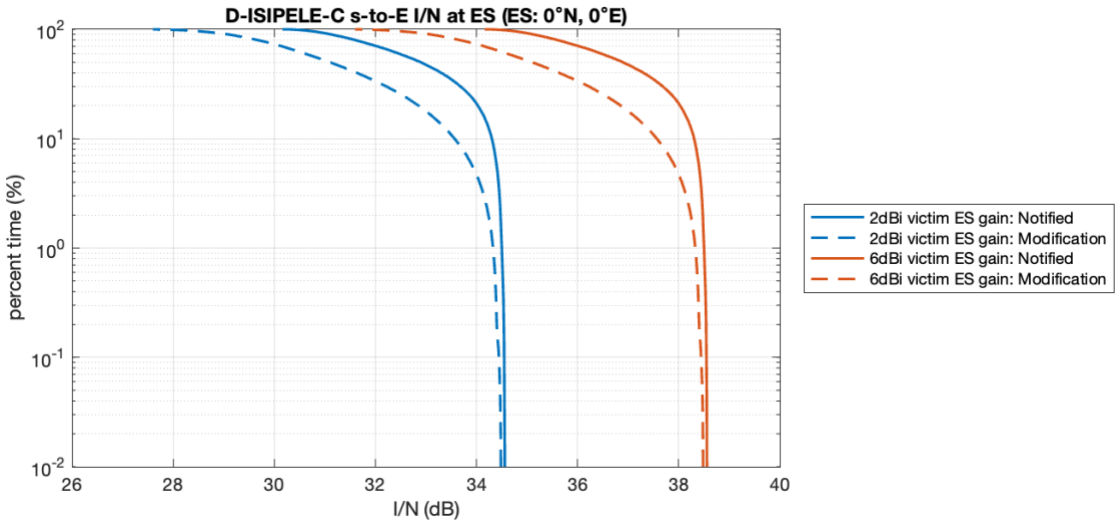

CSN-V7 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

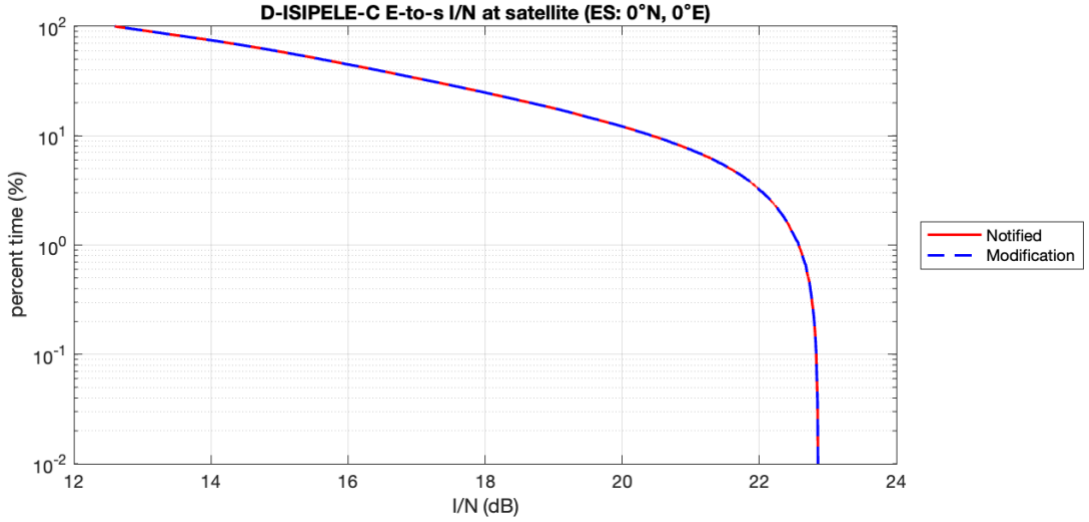

CSN-V7 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

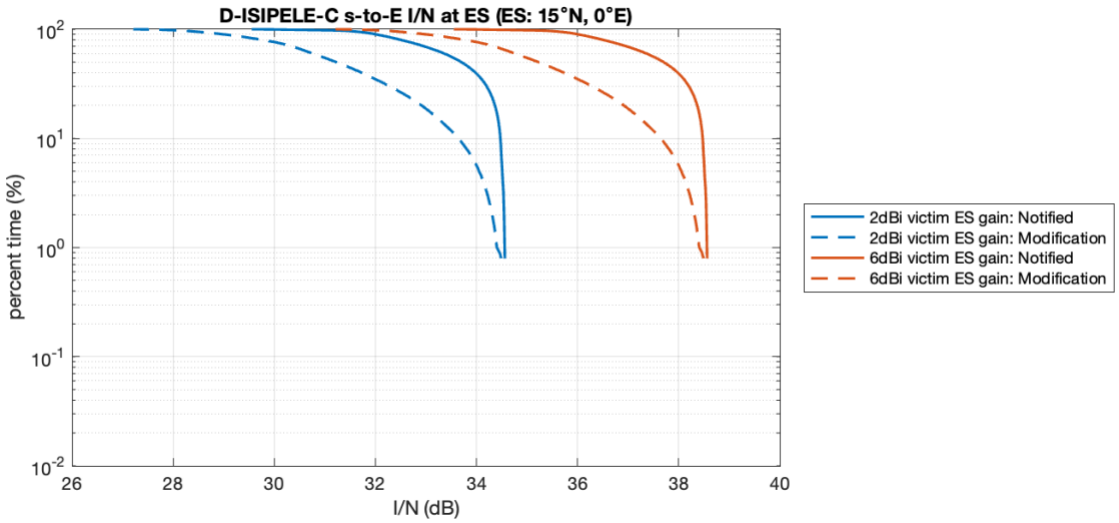

CSN-V7 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

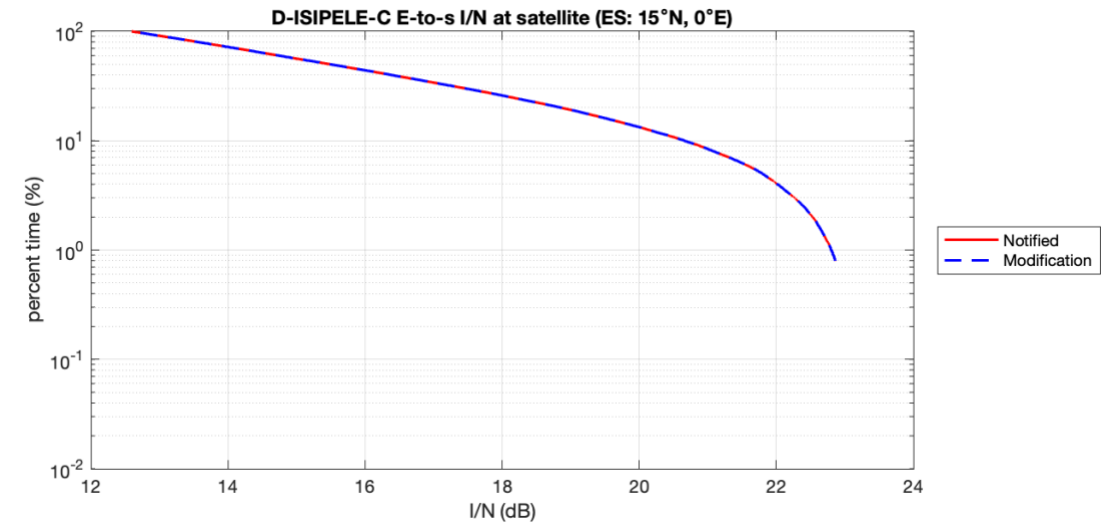

CSN-V7 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

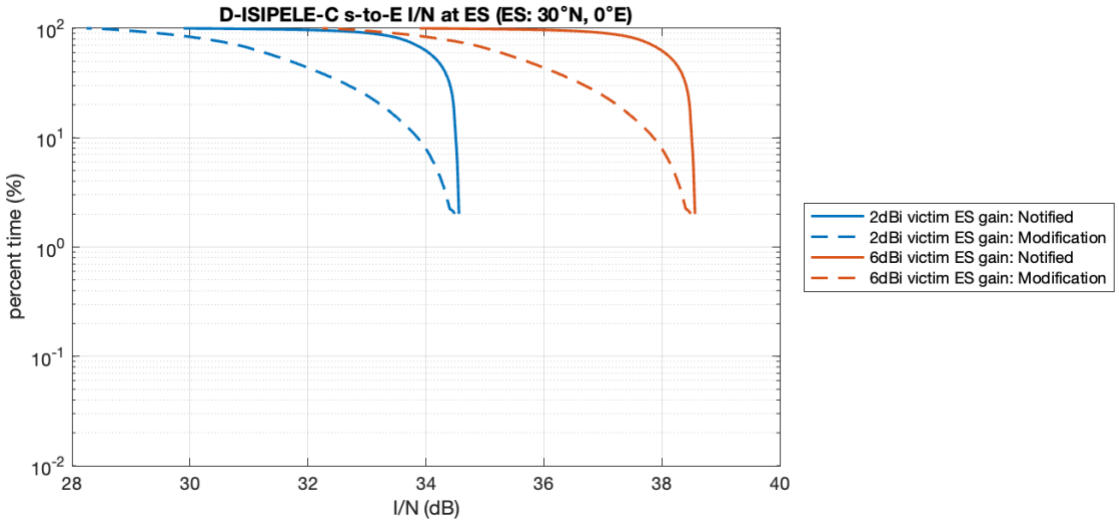

CSN-V7 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

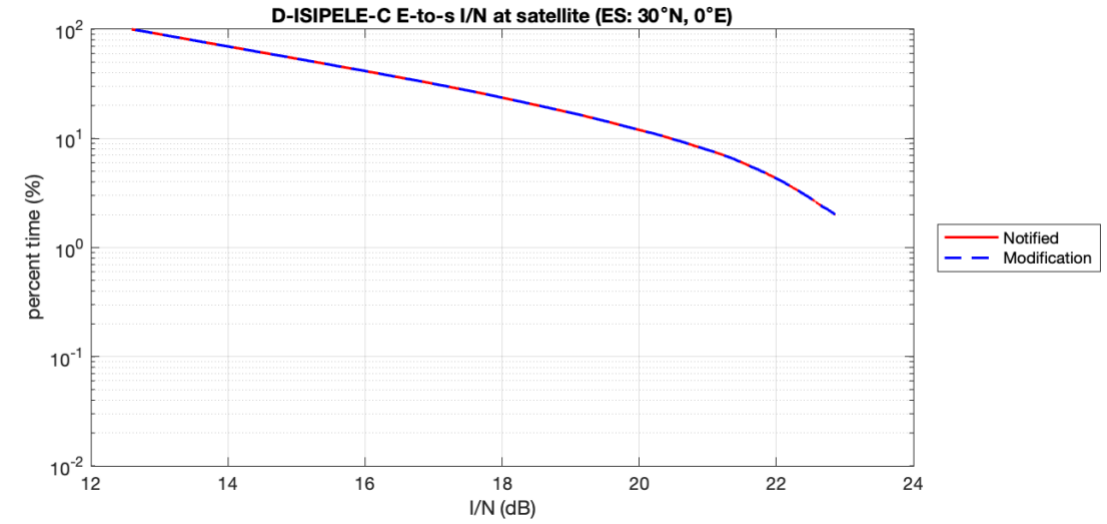

D-ISIPELE-C s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification

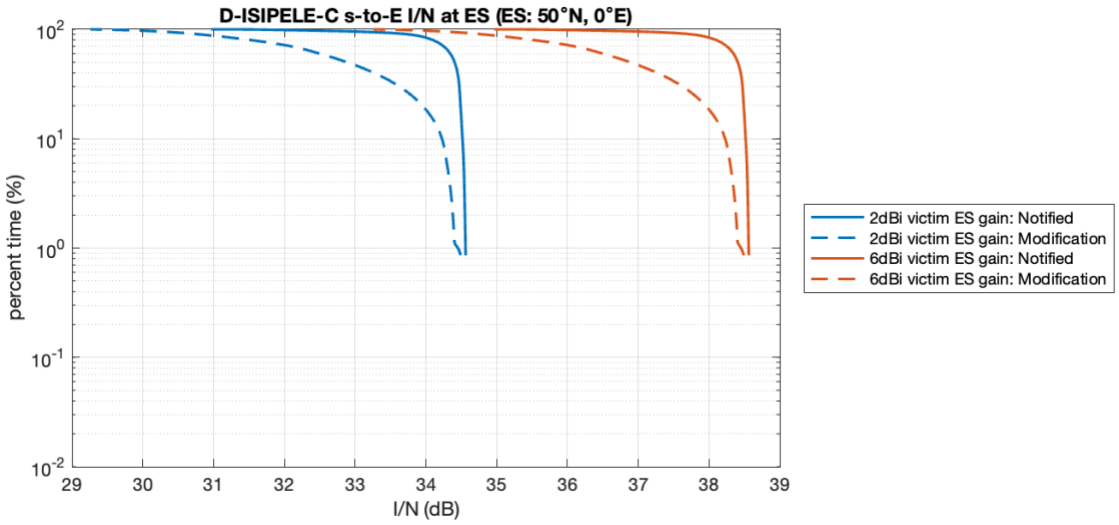

D-ISIPELE-C E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

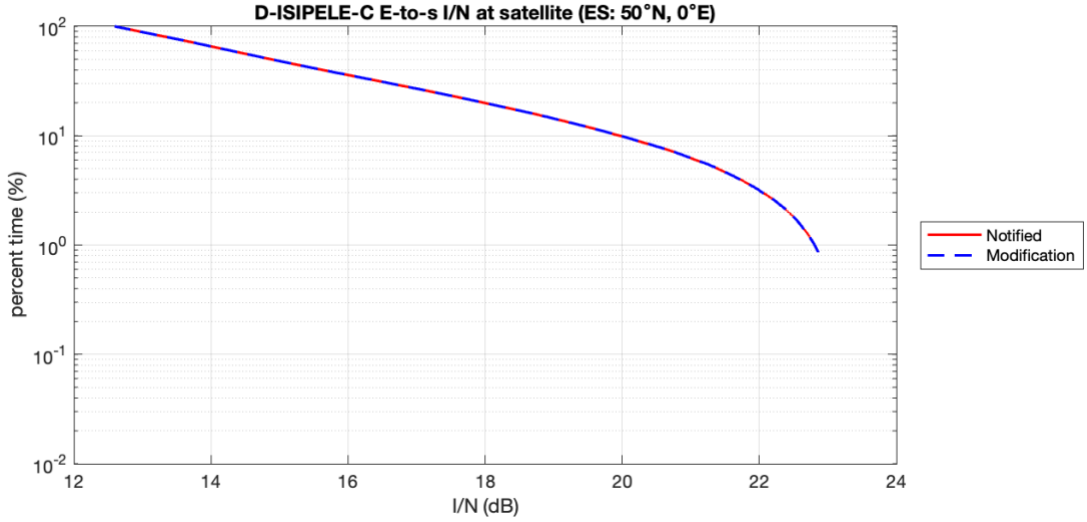

D-ISIPELE-C s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification

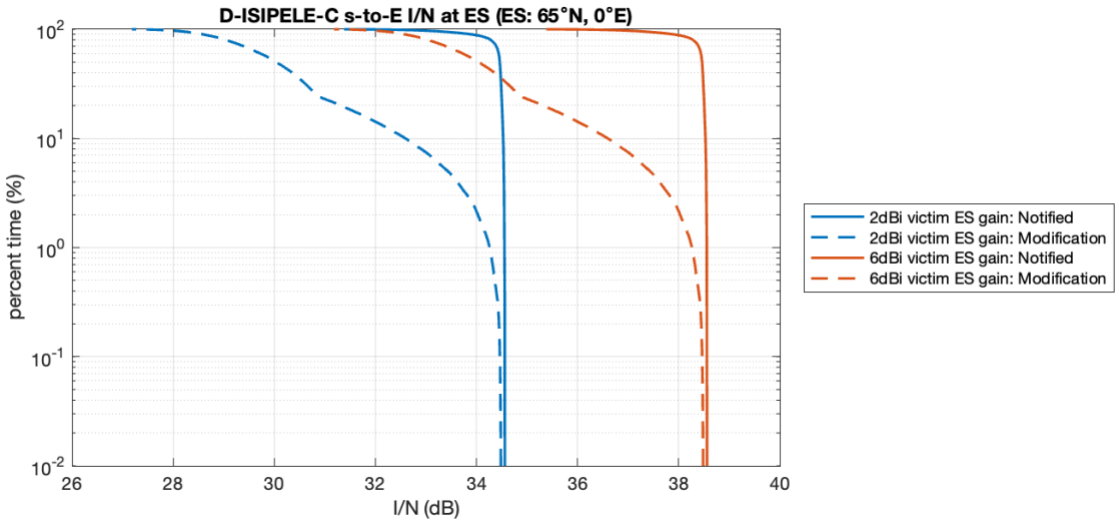

D-ISIPELE-C E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

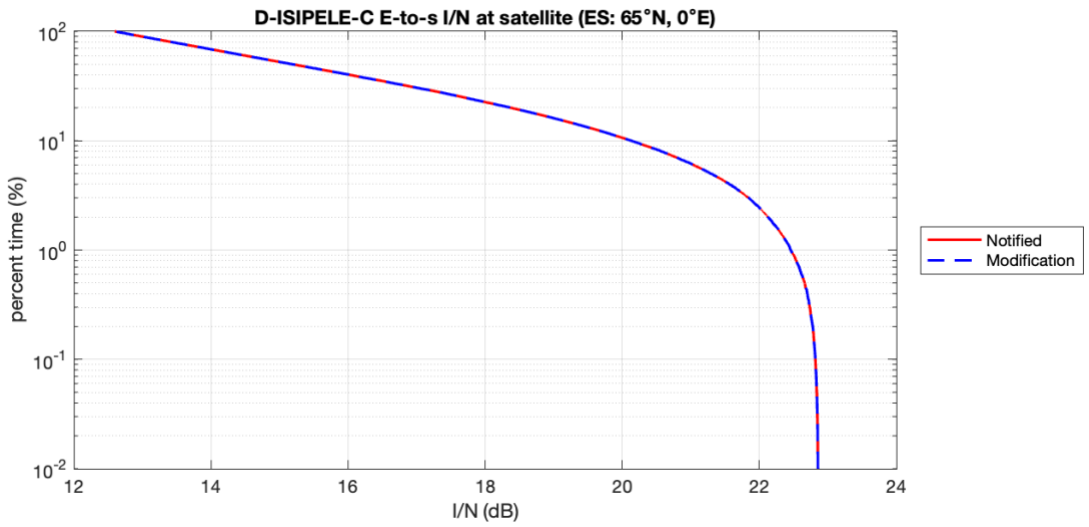

D-ISIPELE-C s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification

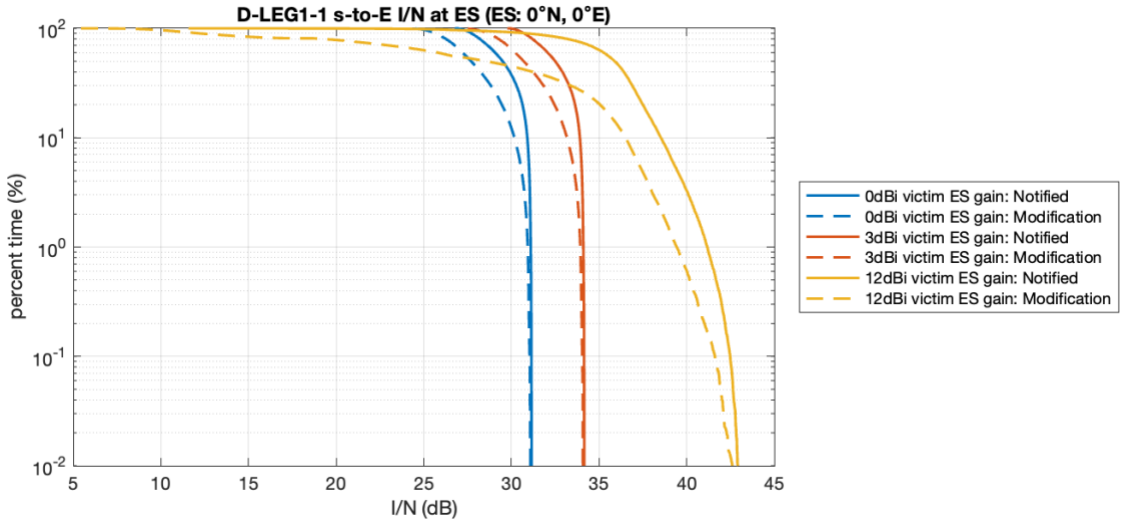

D-ISIPELE-C E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

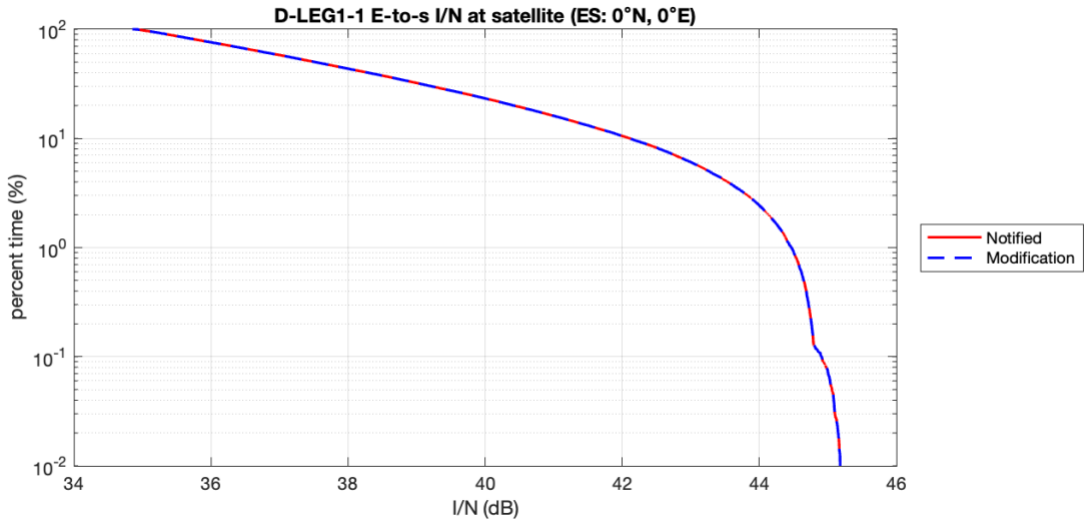

D-ISIPELE-C s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification

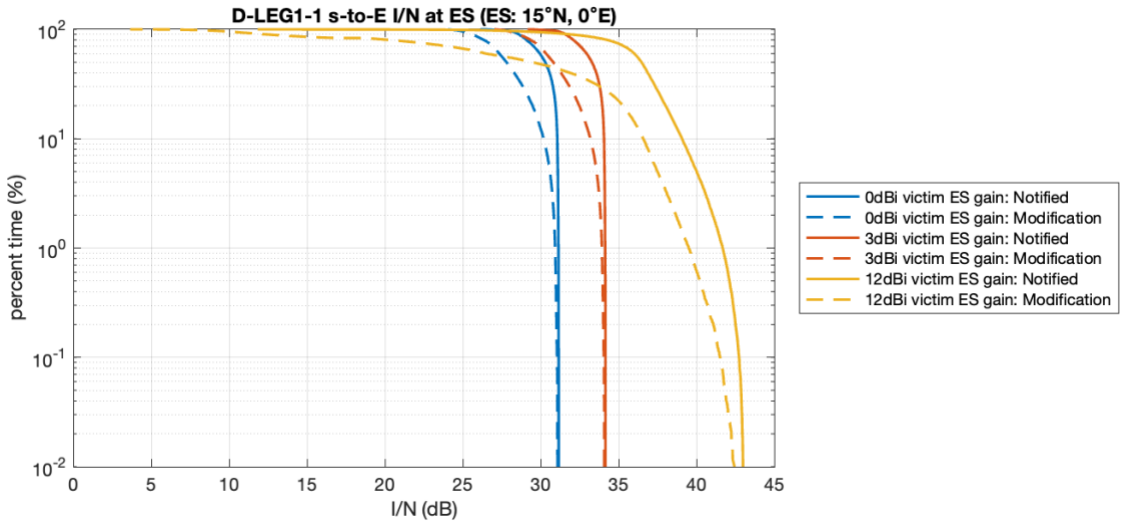

D-ISIPELE-C E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

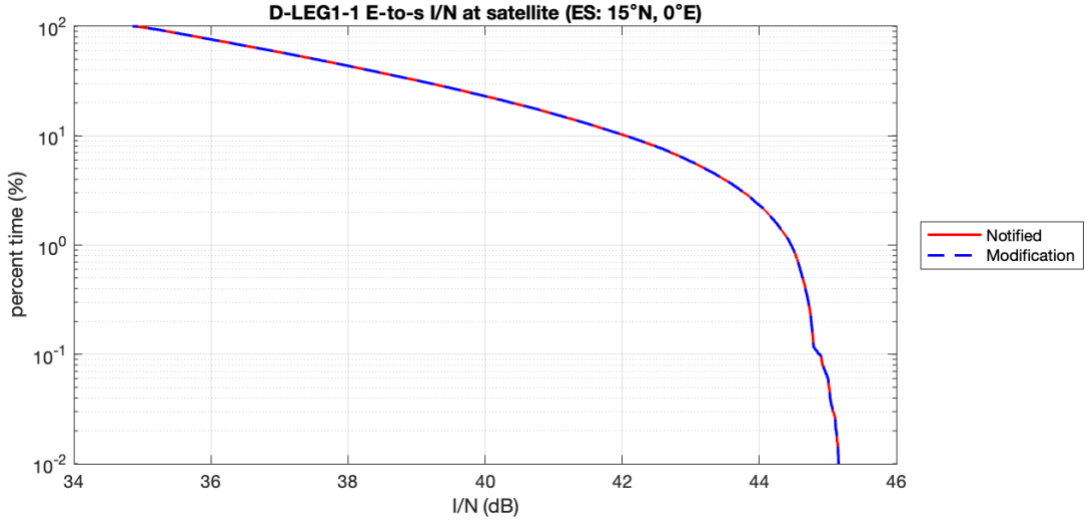

D-ISIPELE-C s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification

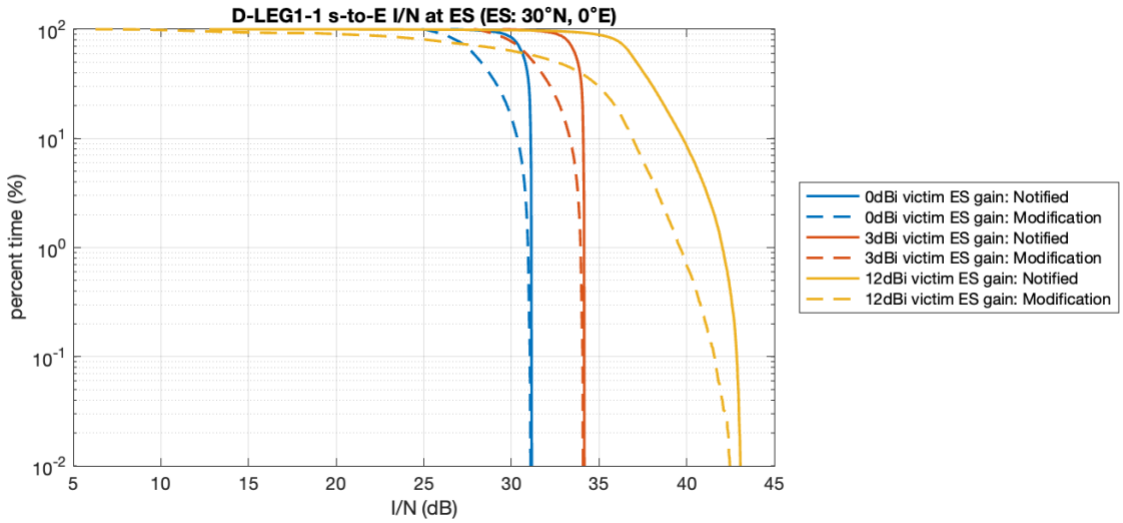

D-ISIPELE-C E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

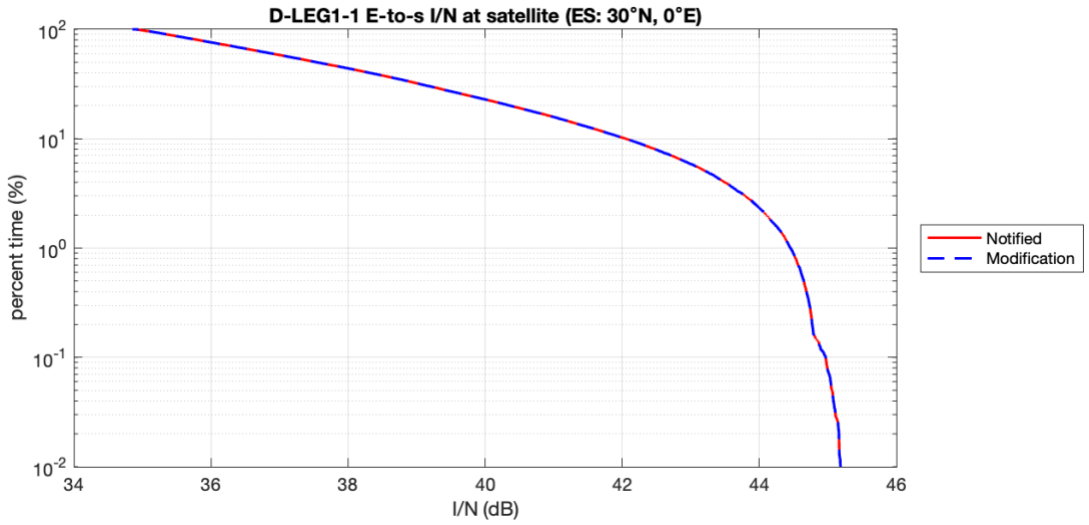

D-LEG1-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
12dBi victim ES gain: Notified
12dBi victim ES gain: Modification

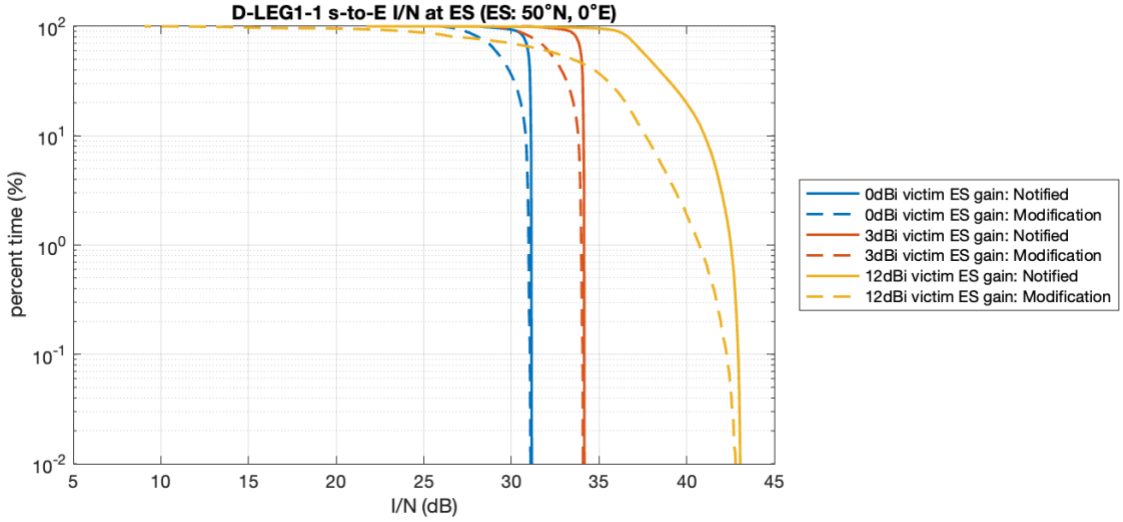

D-LEG1-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

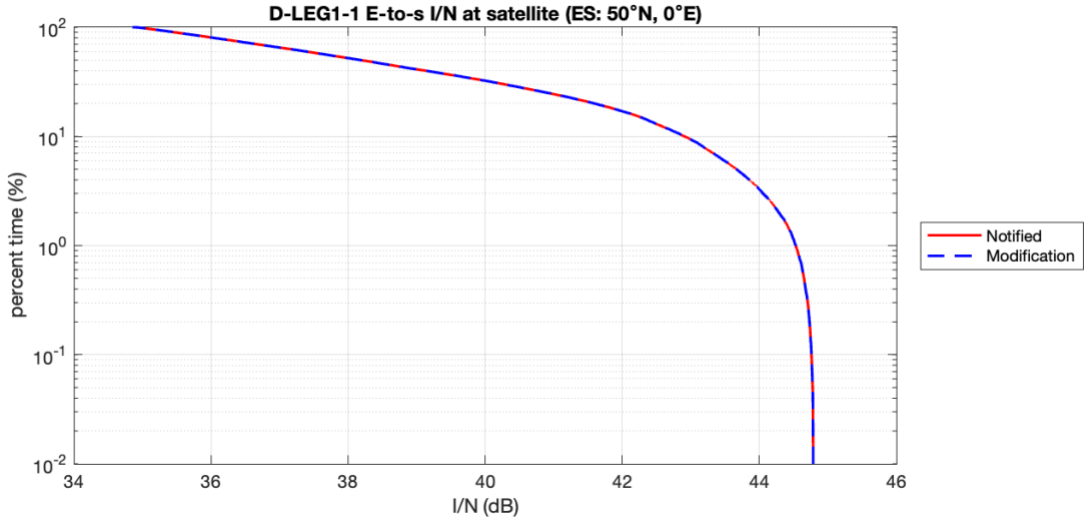

D-LEG1-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
12dBi victim ES gain: Notified
12dBi victim ES gain: Modification

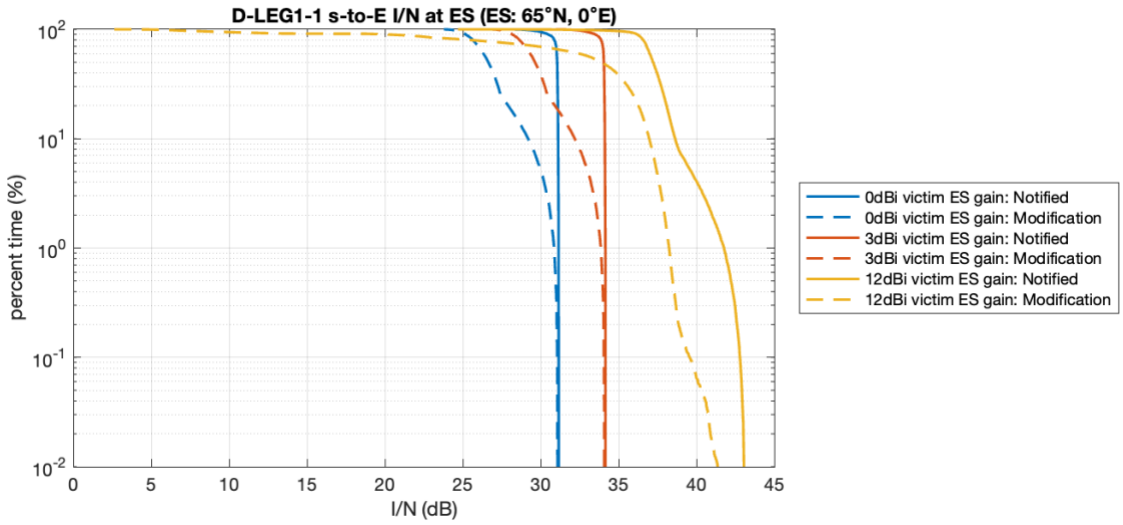

D-LEG1-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

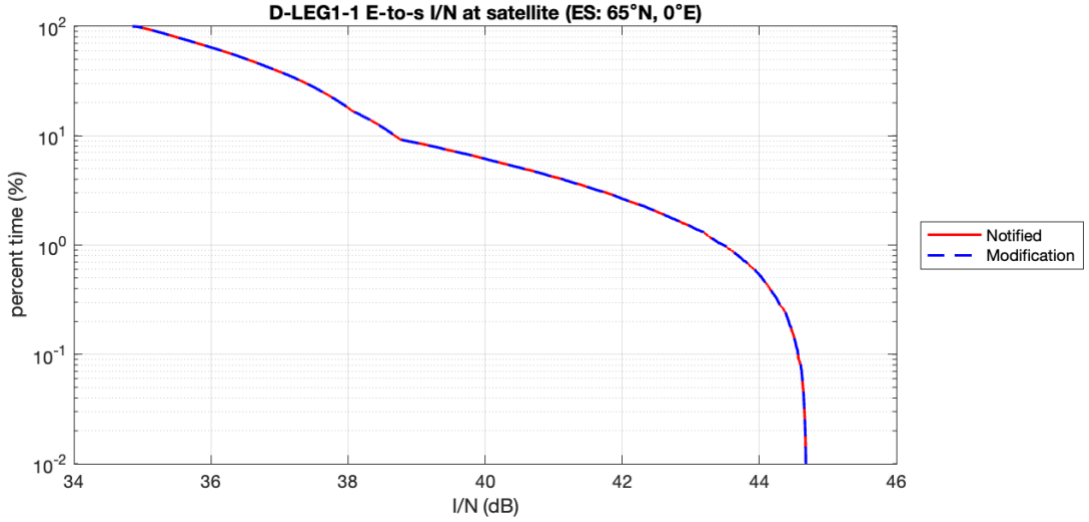

D-LEG1-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
12dBi victim ES gain: Notified
12dBi victim ES gain: Modification

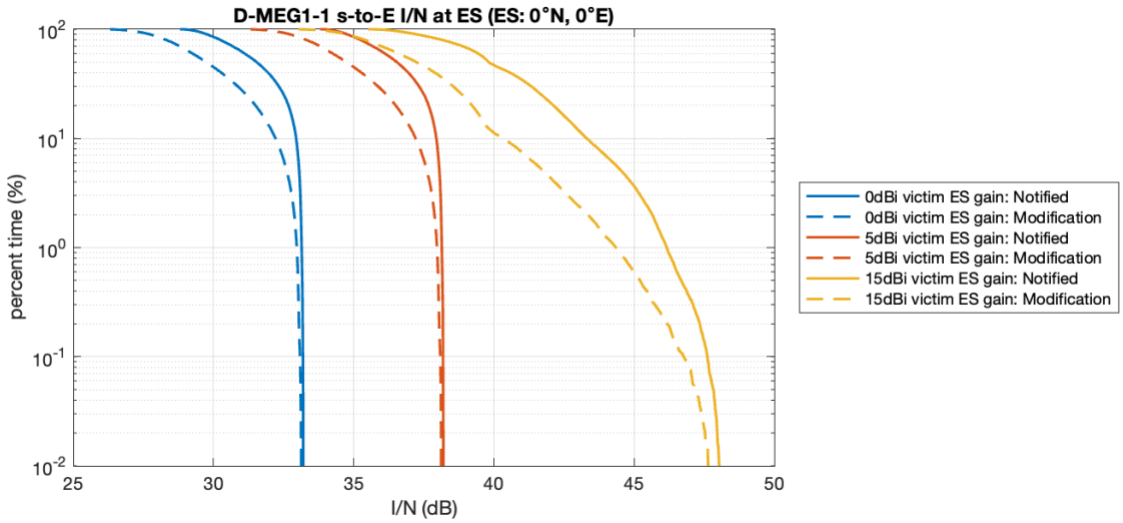

D-LEG1-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

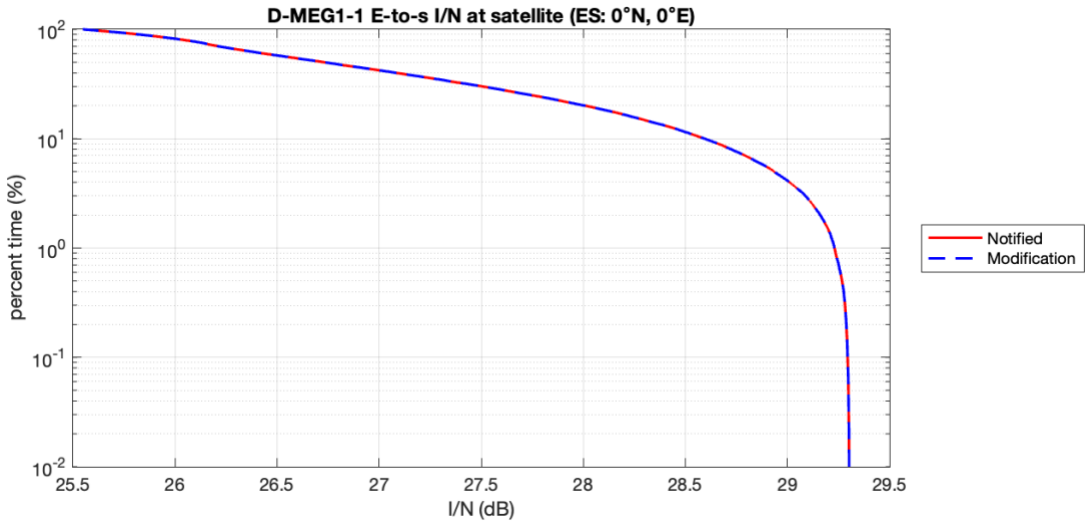

D-LEG1-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
12dBi victim ES gain: Notified
12dBi victim ES gain: Modification

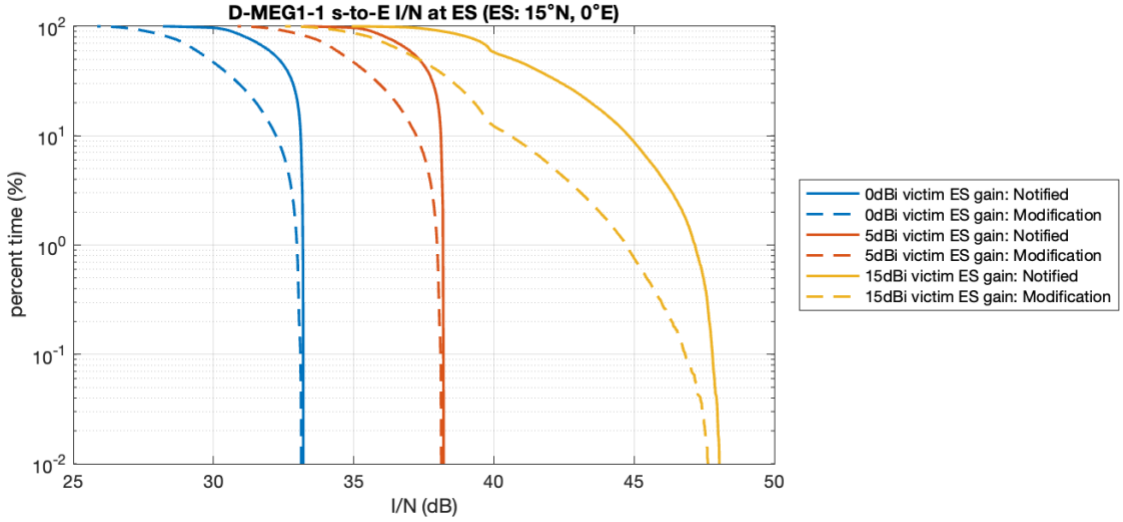

D-LEG1-1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

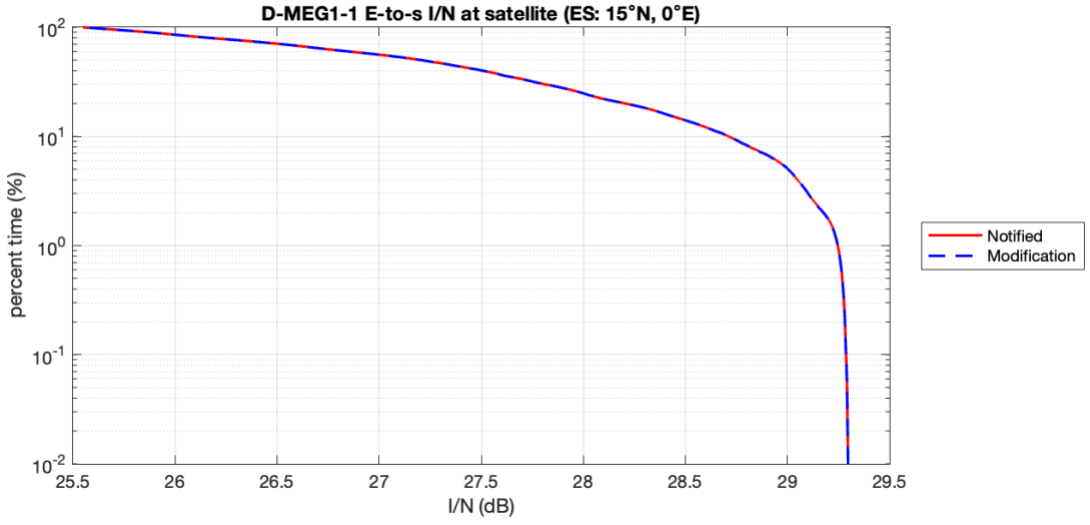

D-LEG1-1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
12dBi victim ES gain: Notified
12dBi victim ES gain: Modification

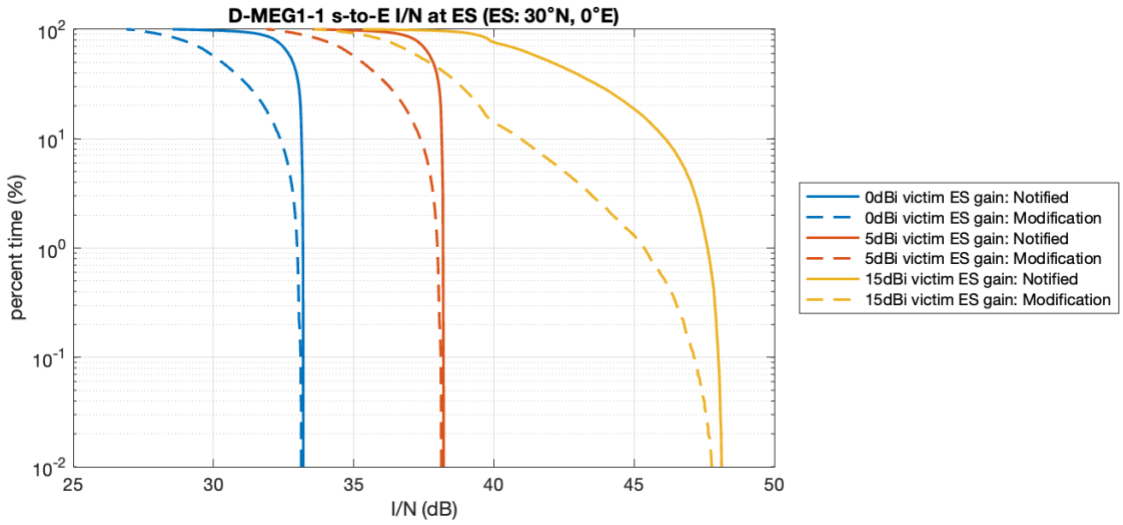

D-LEG1-1 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

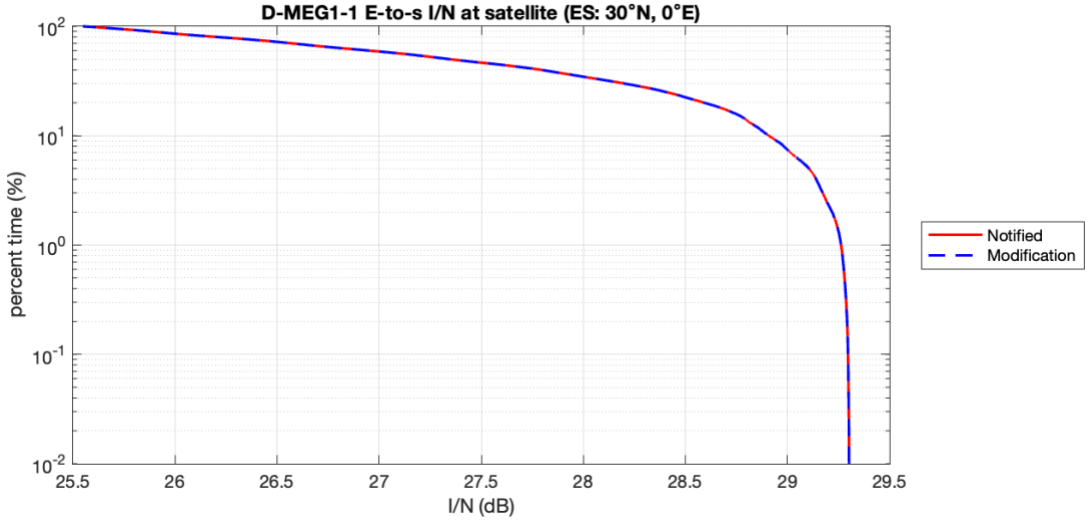

D-MEG1-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification
15dBi victim ES gain: Notified
15dBi victim ES gain: Modification

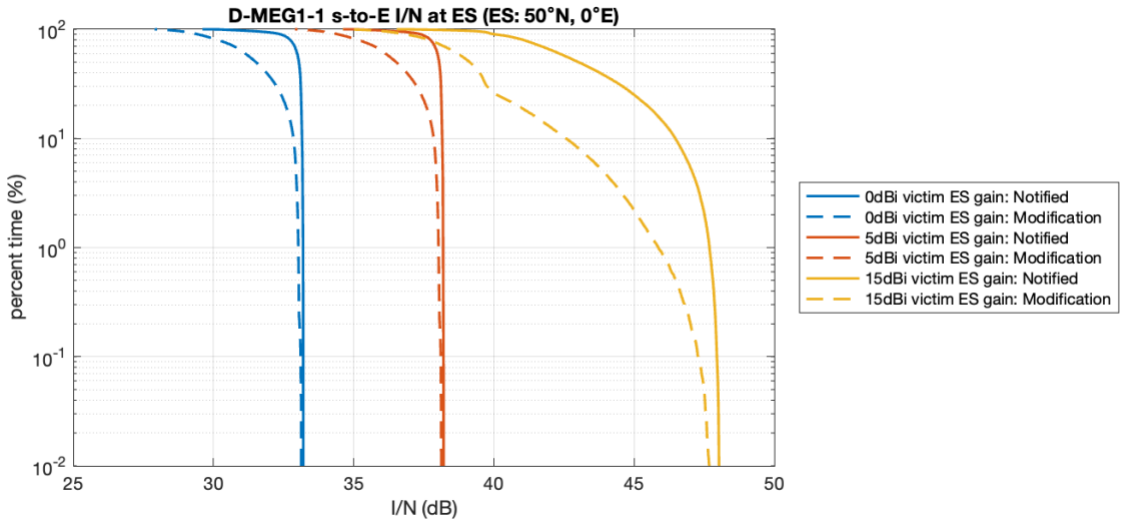

D-MEG1-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

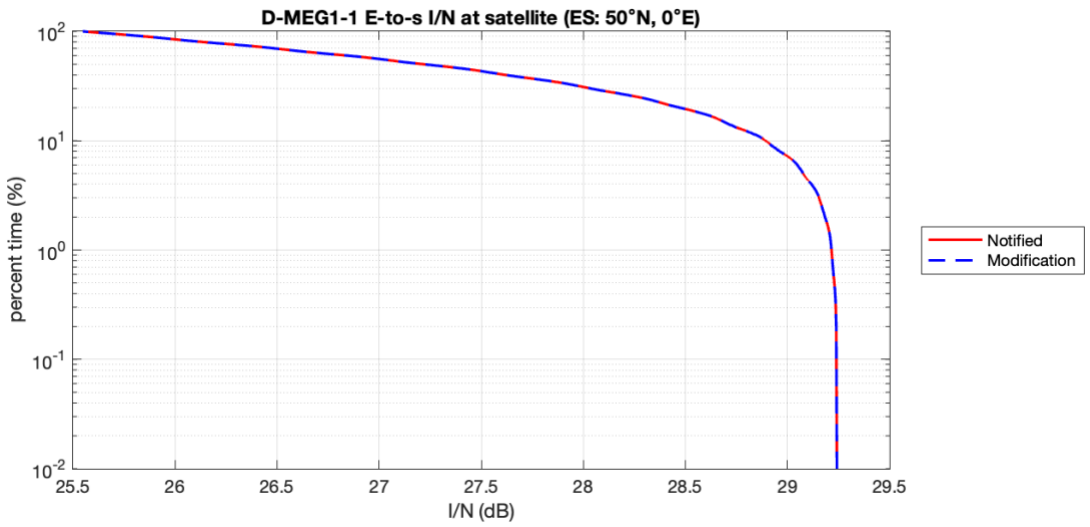

D-MEG1-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification
15dBi victim ES gain: Notified
15dBi victim ES gain: Modification

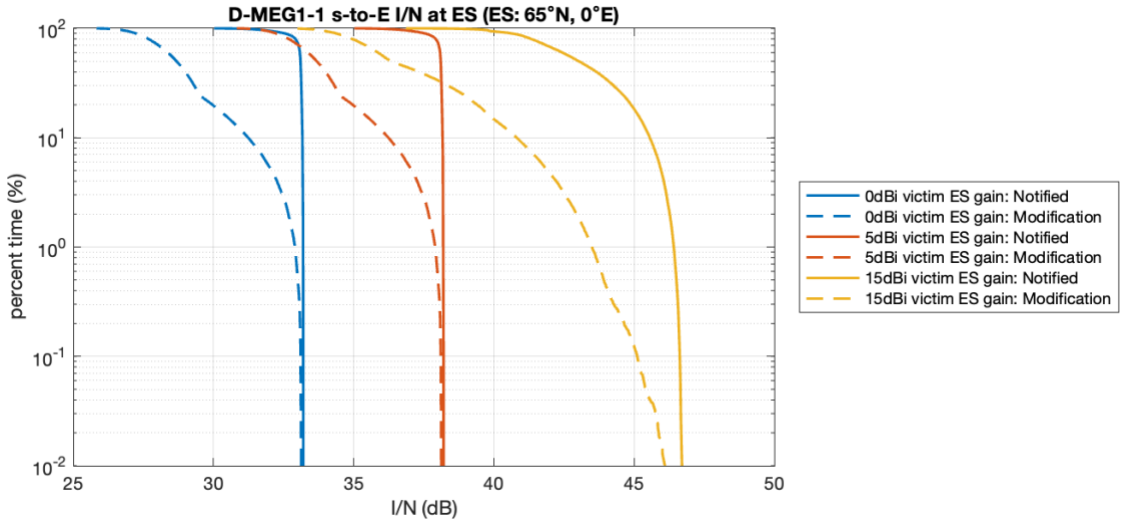

D-MEG1-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

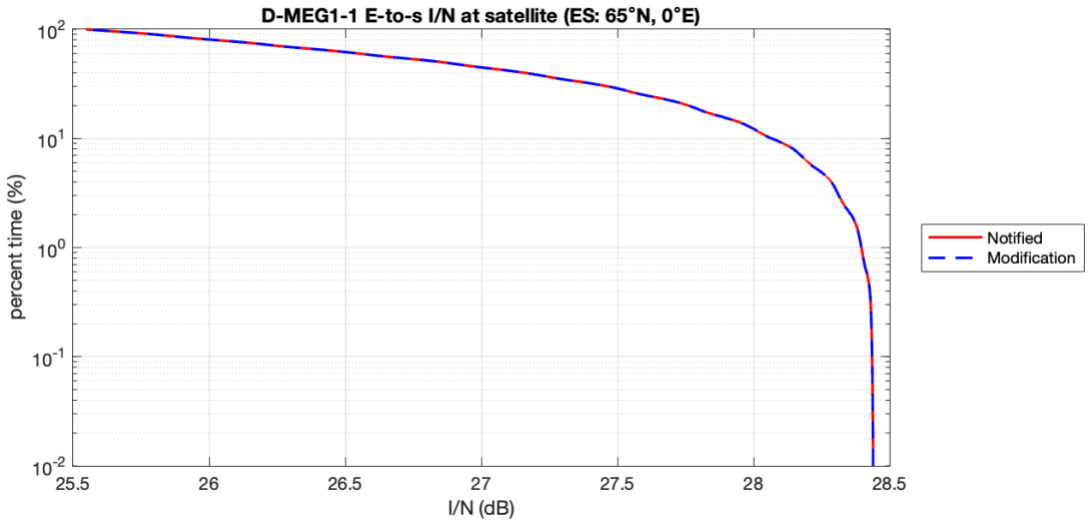

D-MEG1-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification
15dBi victim ES gain: Notified
15dBi victim ES gain: Modification

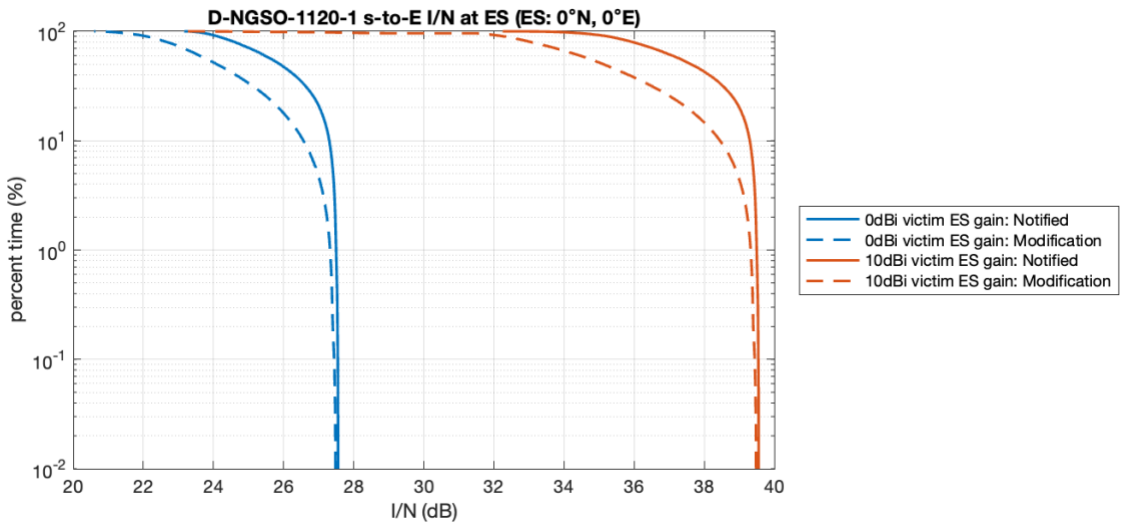

D-MEG1-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

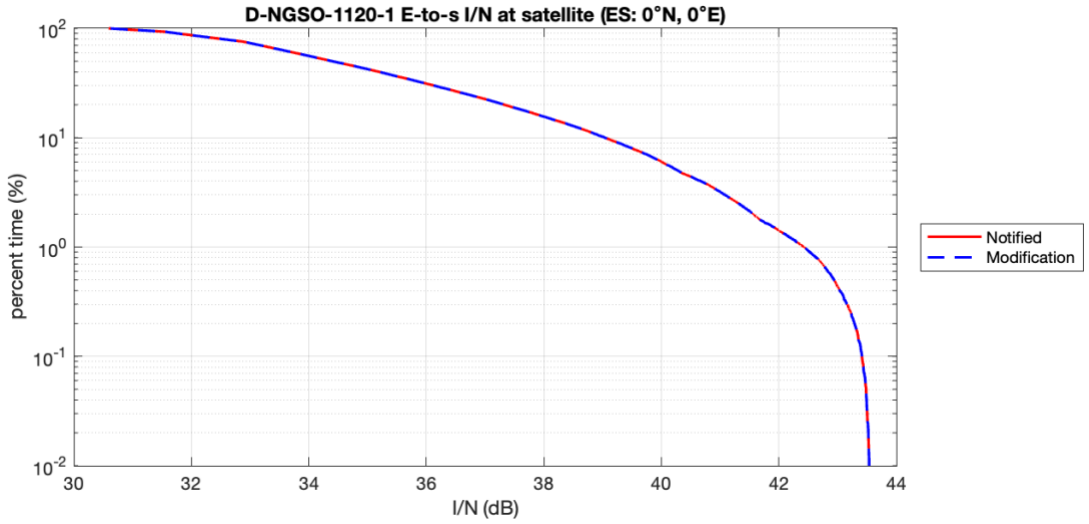

D-MEG1-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification
15dBi victim ES gain: Notified
15dBi victim ES gain: Modification

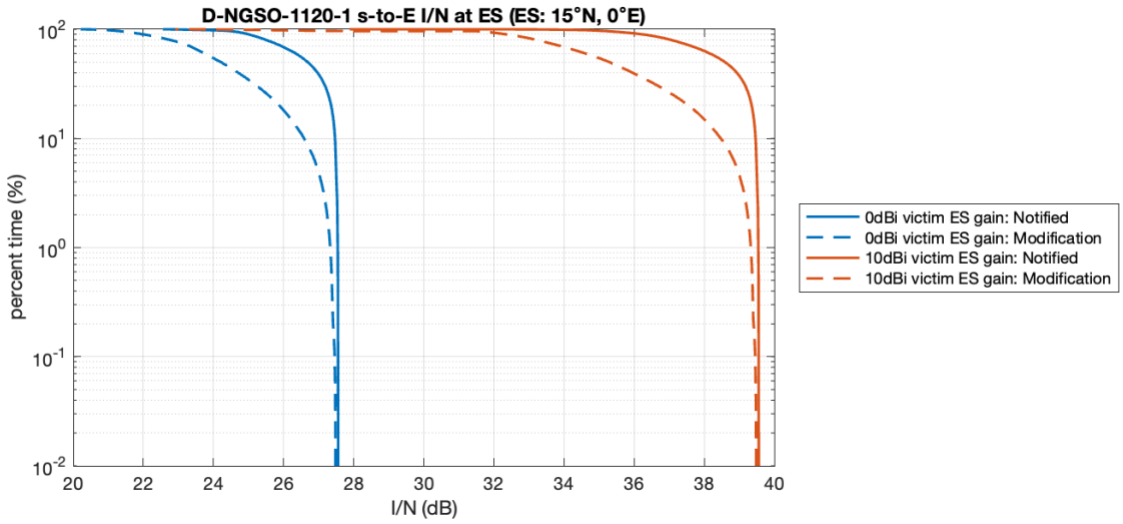

D-MEG1-1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

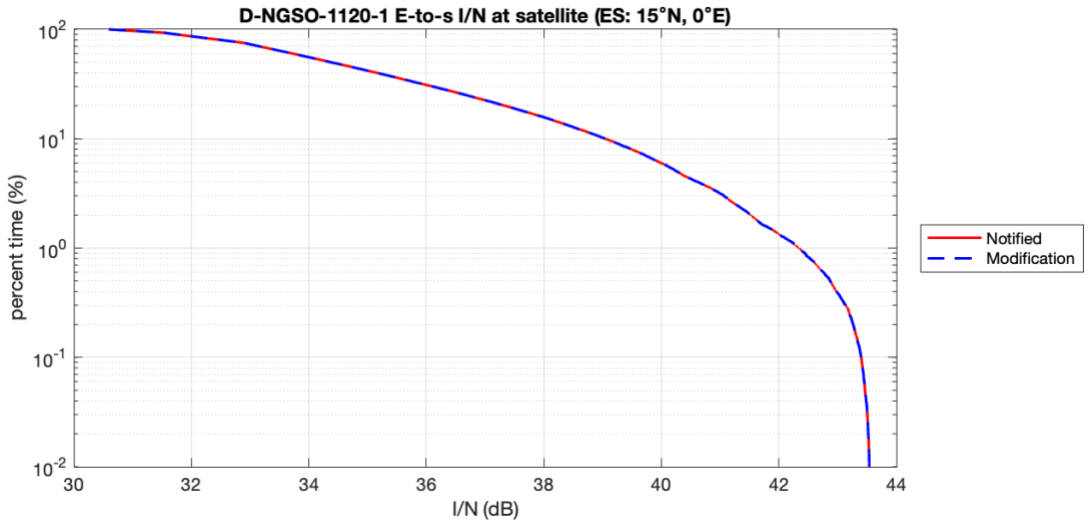

D-MEG1-1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification
15dBi victim ES gain: Notified
15dBi victim ES gain: Modification

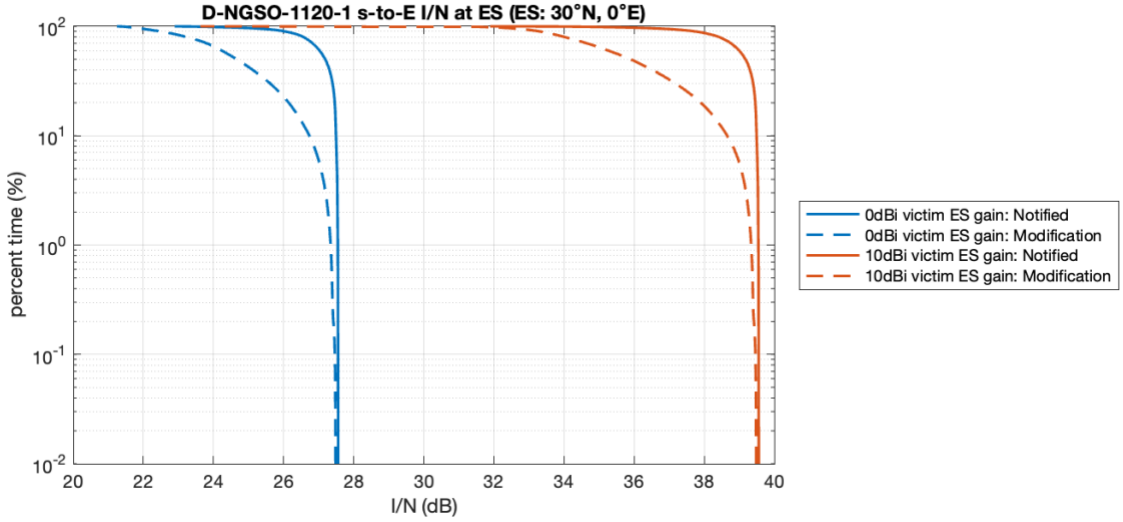

D-MEG1-1 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

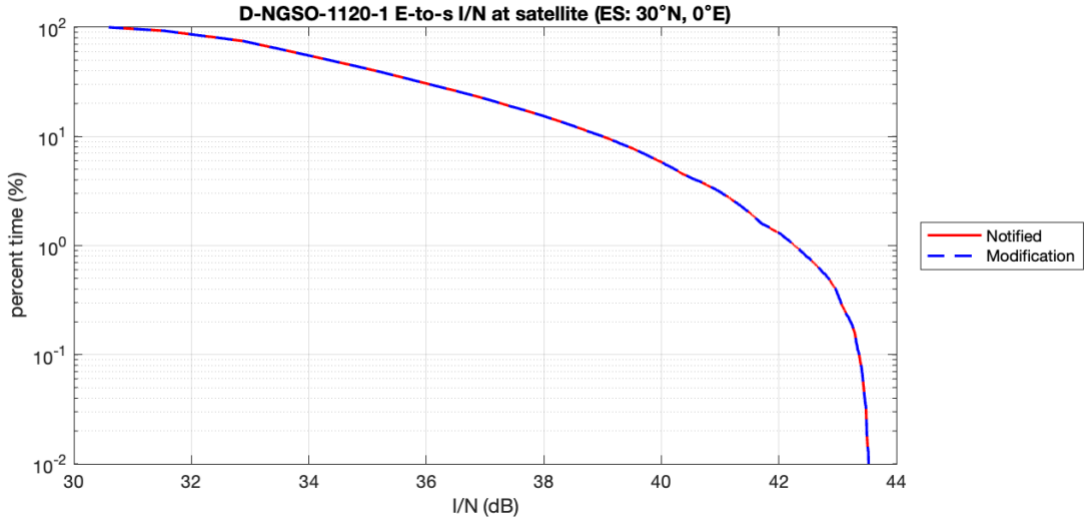

D-NGSO-1120-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

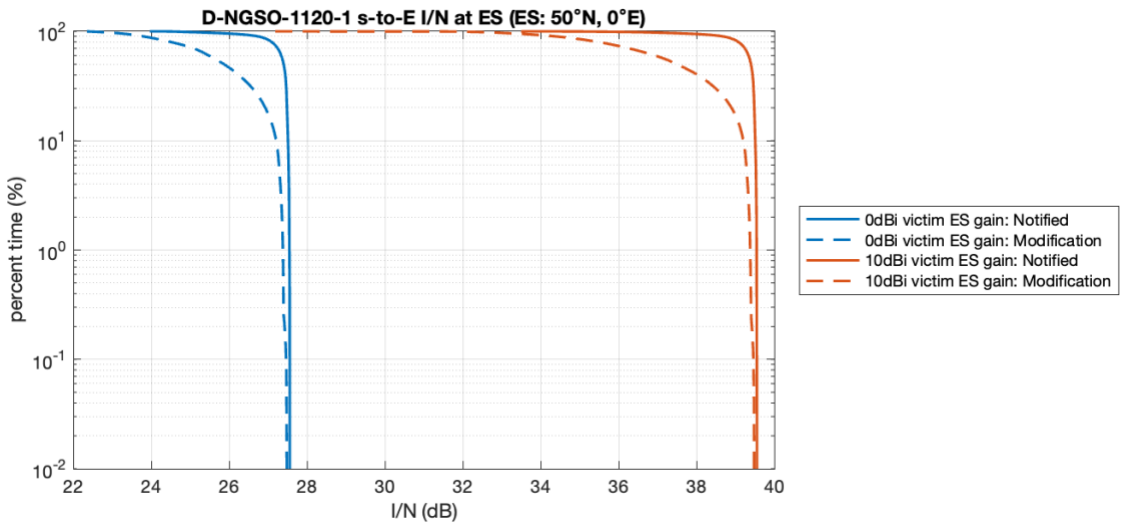

D-NGSO-1120-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

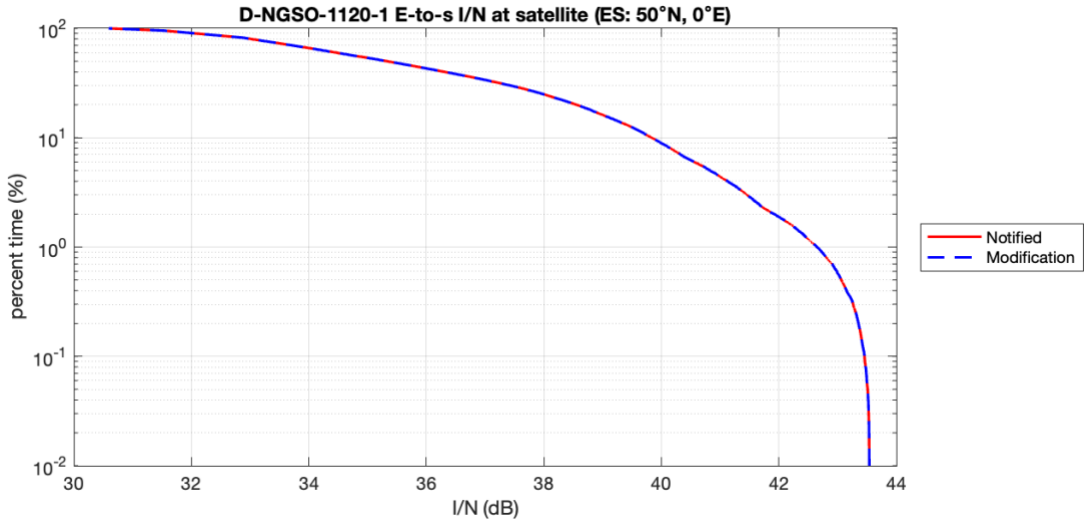

D-NGSO-1120-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

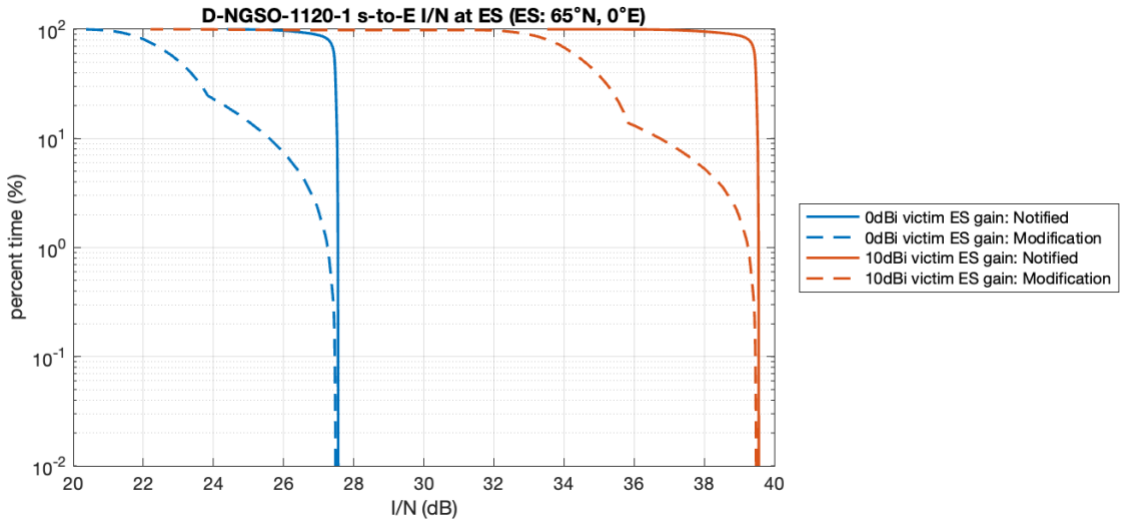

D-NGSO-1120-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

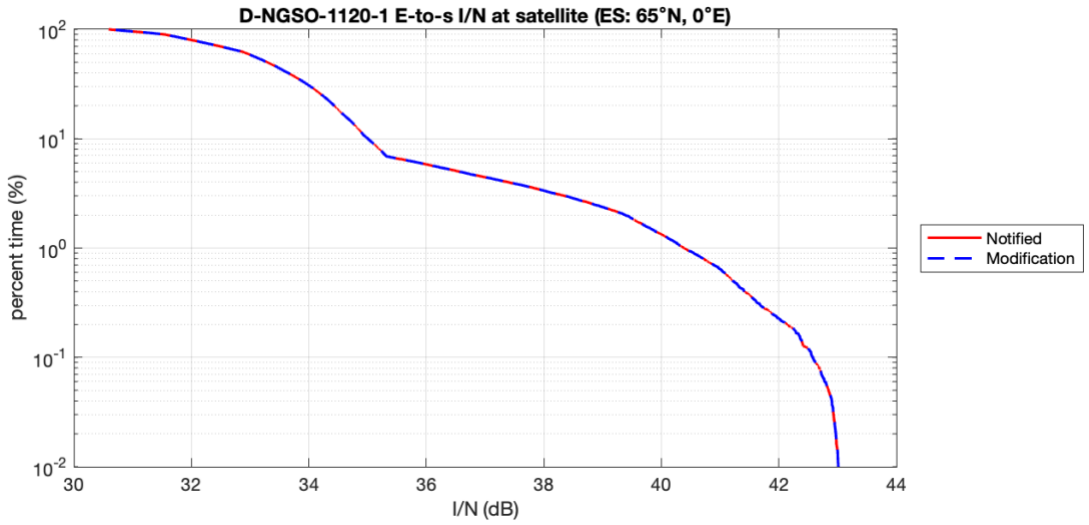

D-NGSO-1120-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

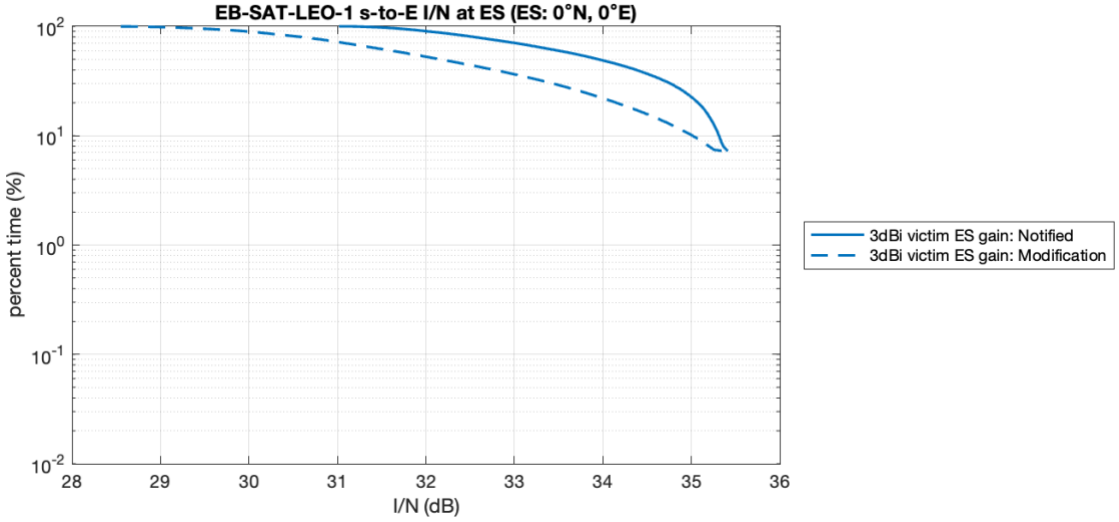

D-NGSO-1120-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

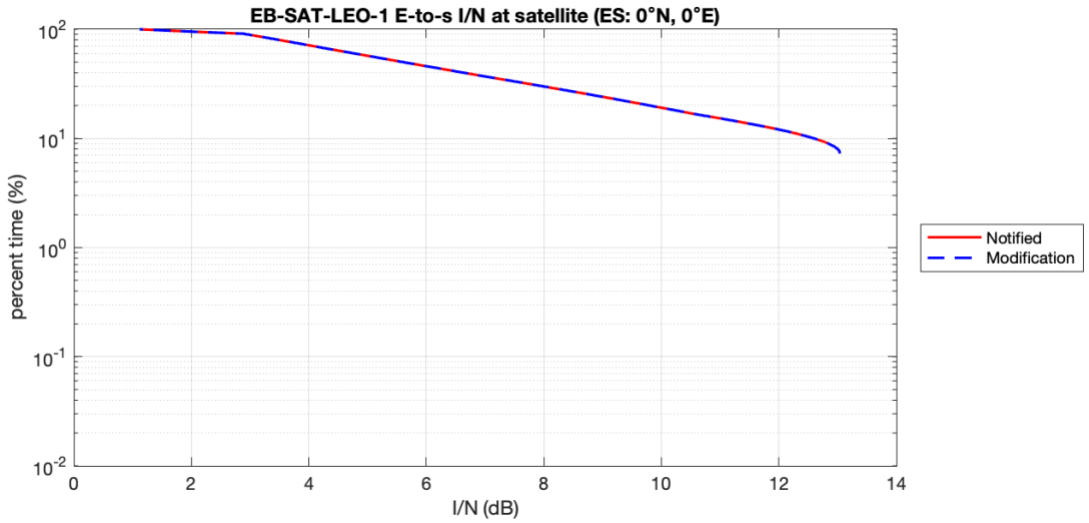

D-NGSO-1120-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

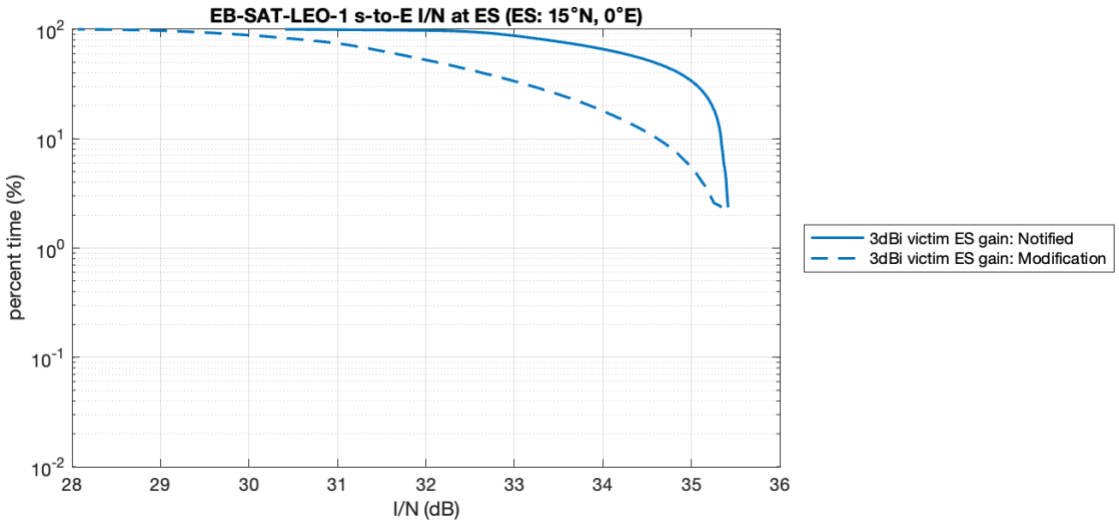

D-NGSO-1120-1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

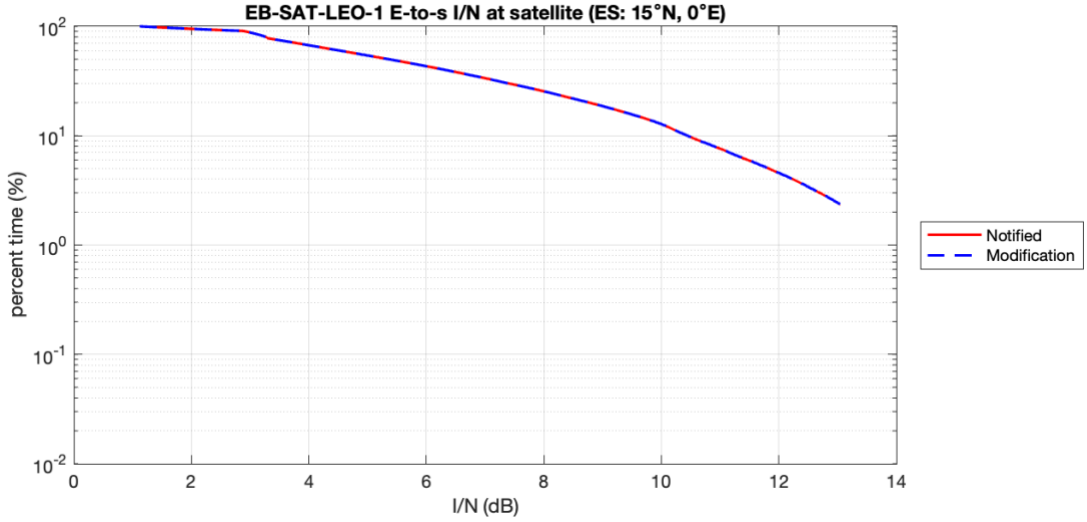

D-NGSO-1120-1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

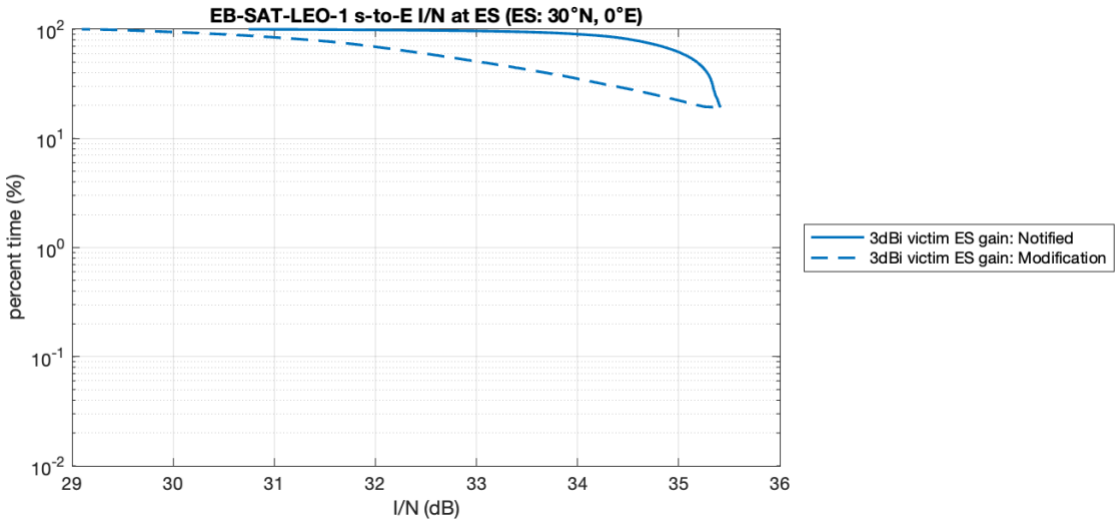

D-NGSO-1120-1 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

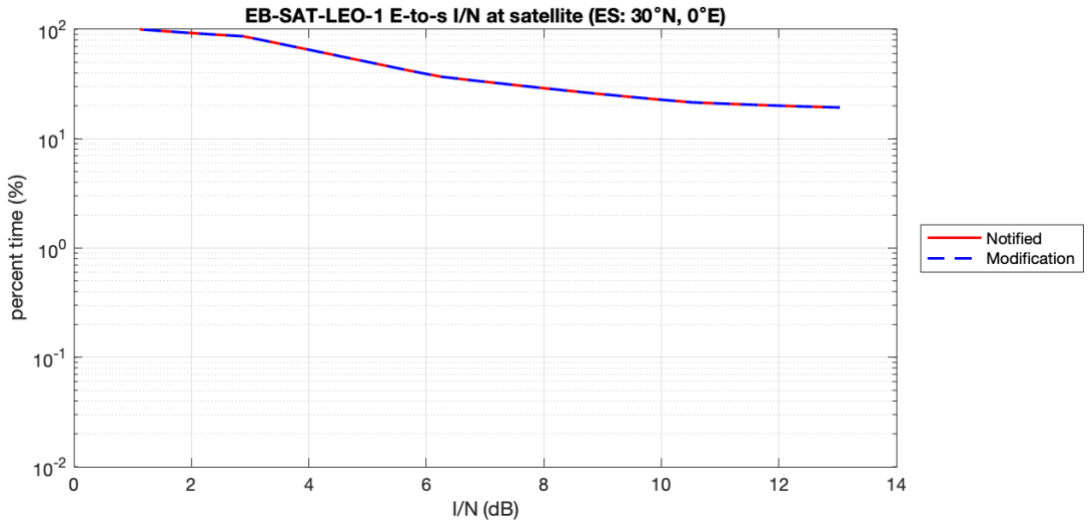

EB-SAT-LEO-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

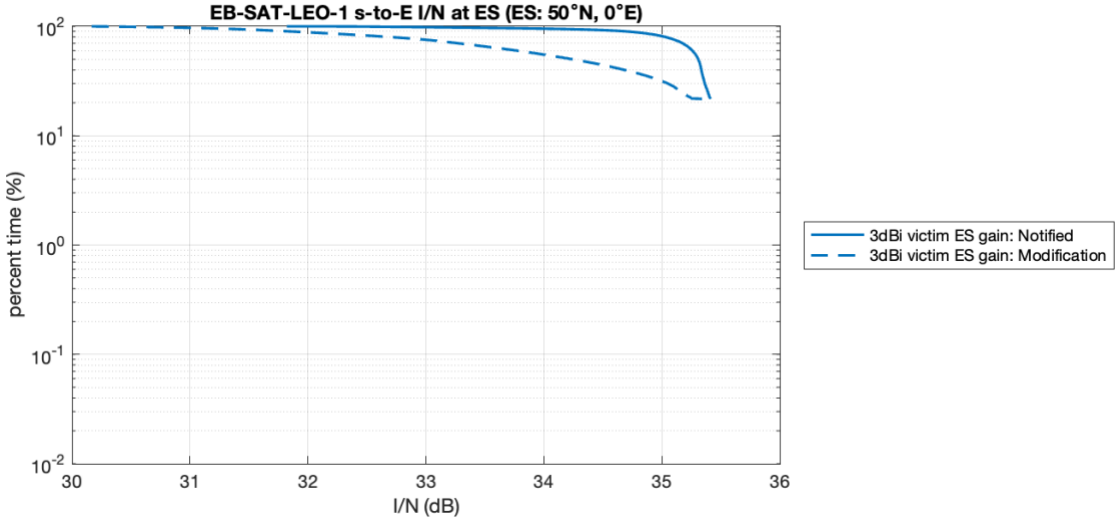

EB-SAT-LEO-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

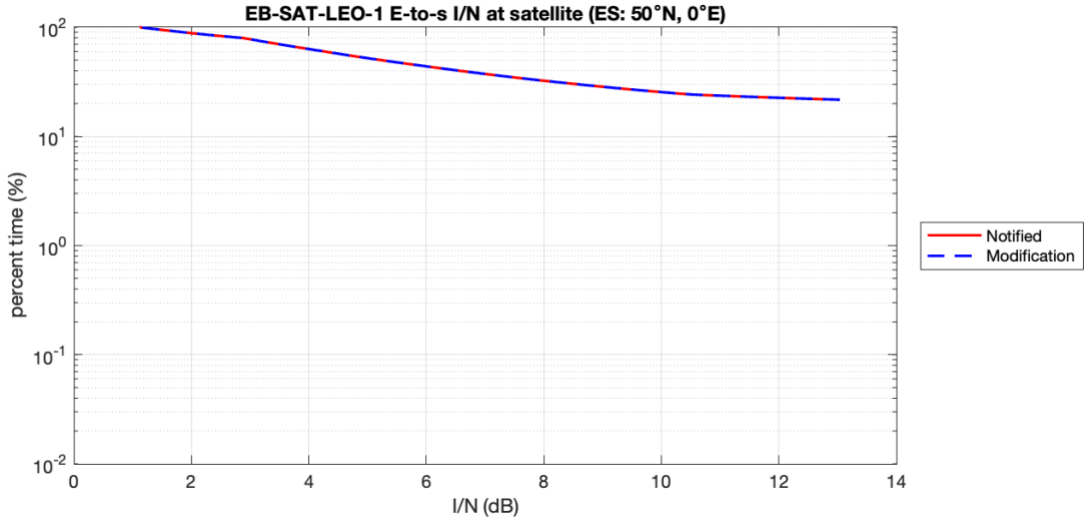

EB-SAT-LEO-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

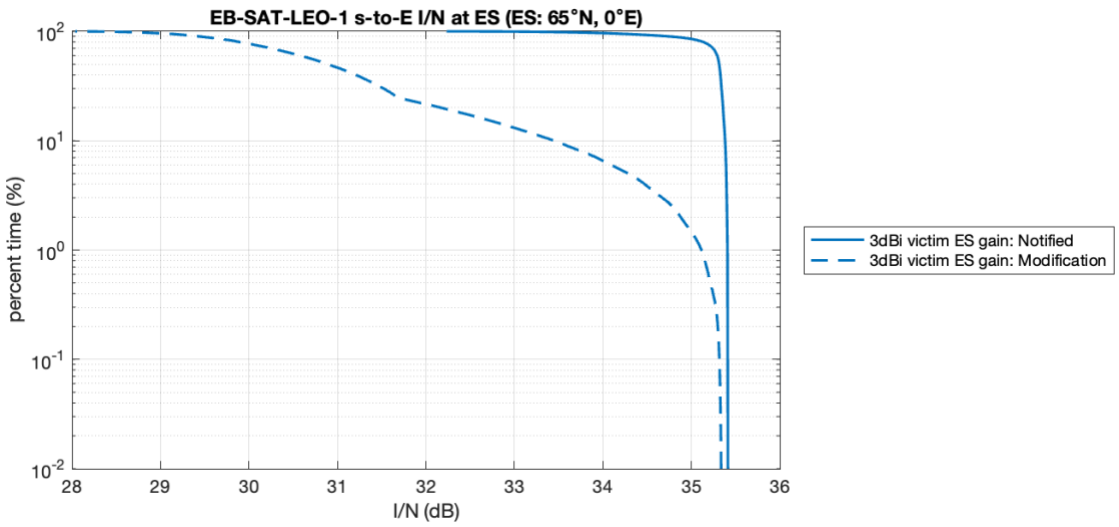

EB-SAT-LEO-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

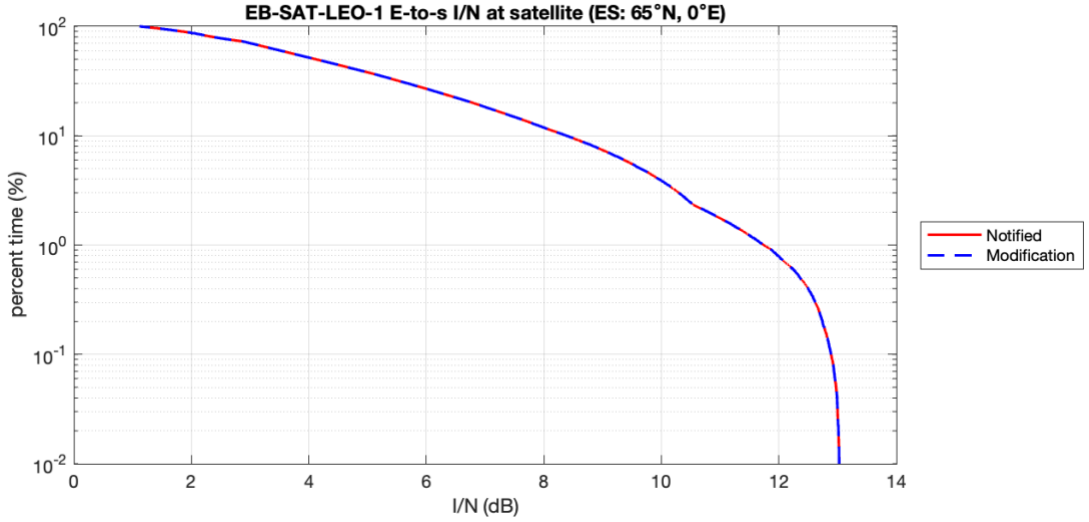

EB-SAT-LEO-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

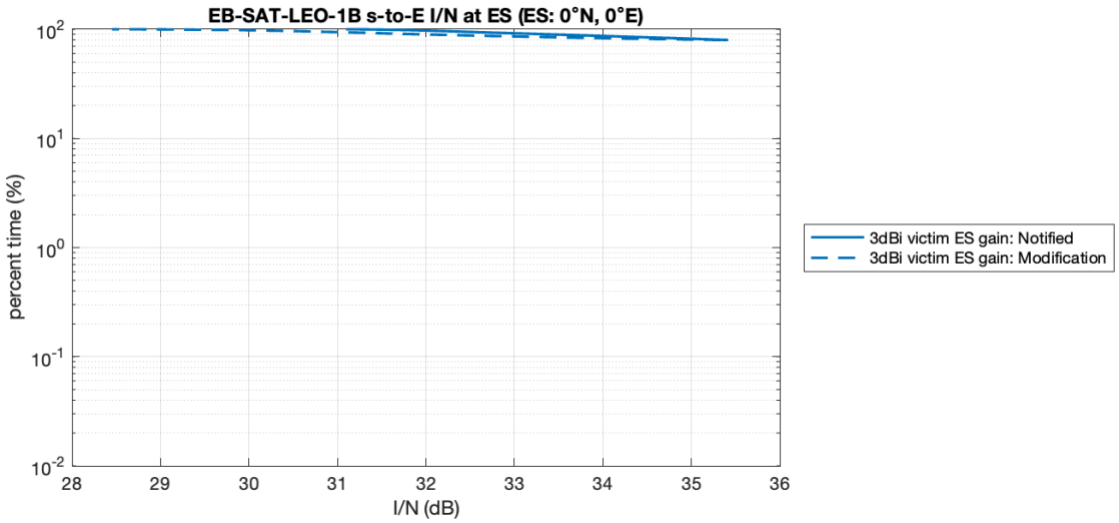

EB-SAT-LEO-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

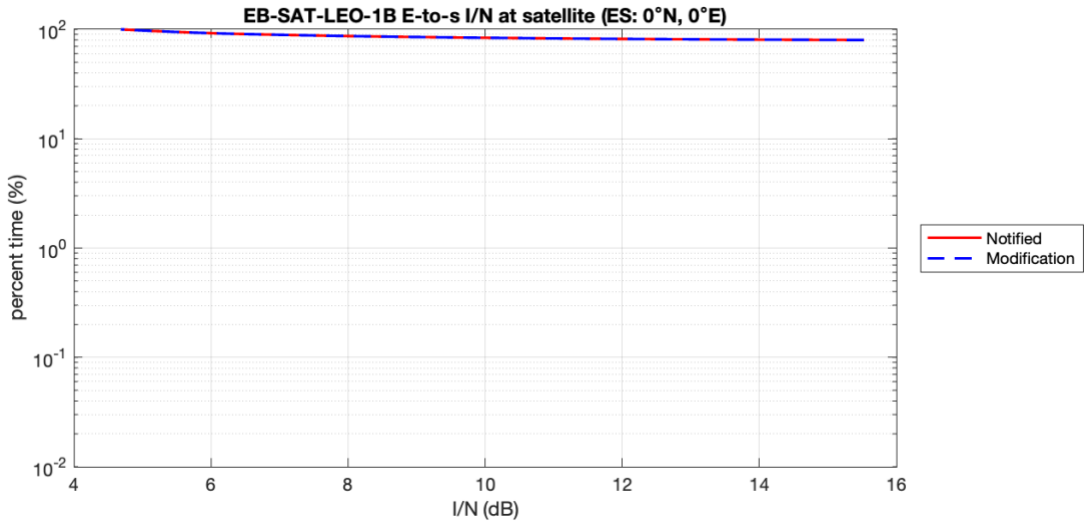

EB-SAT-LEO-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

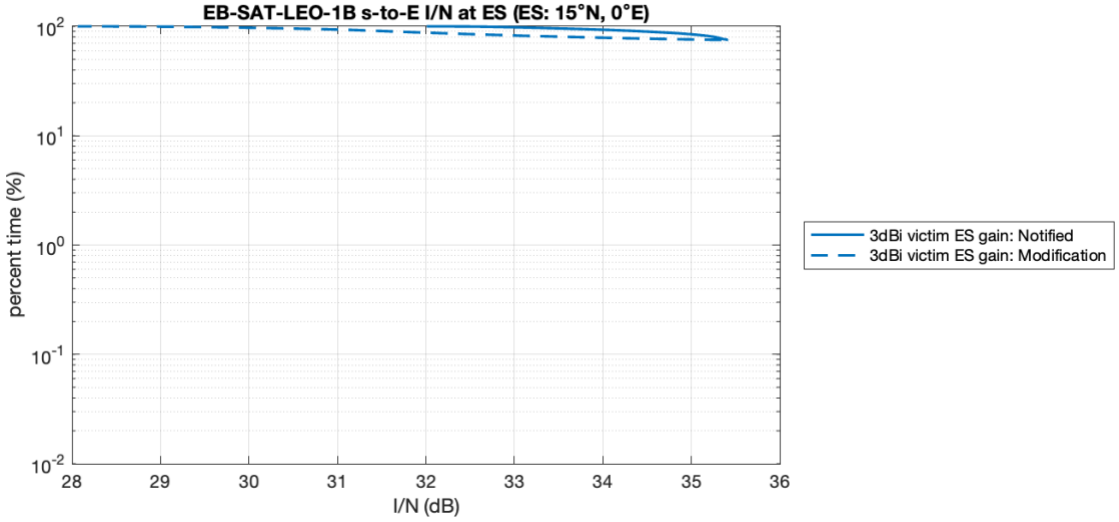

EB-SAT-LEO-1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

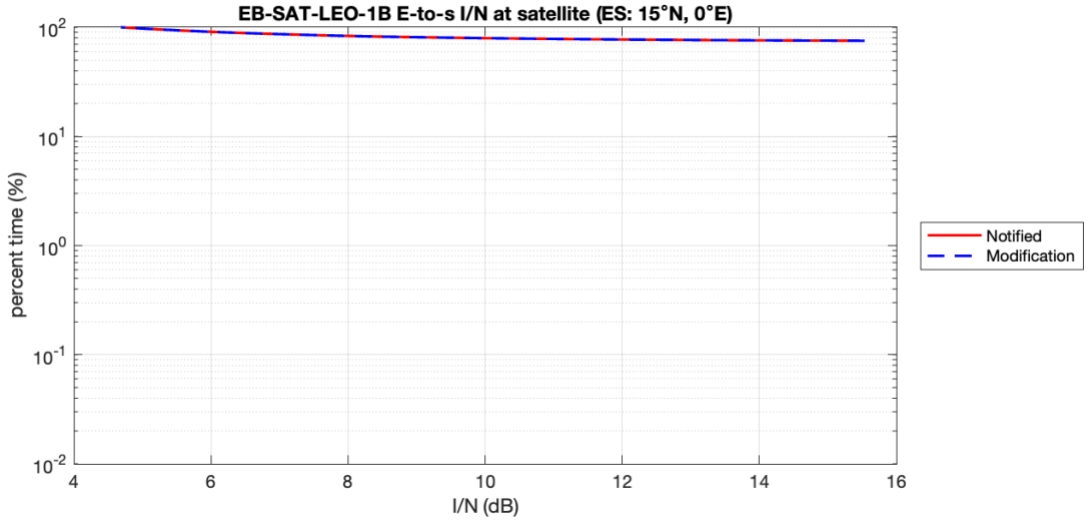

EB-SAT-LEO-1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

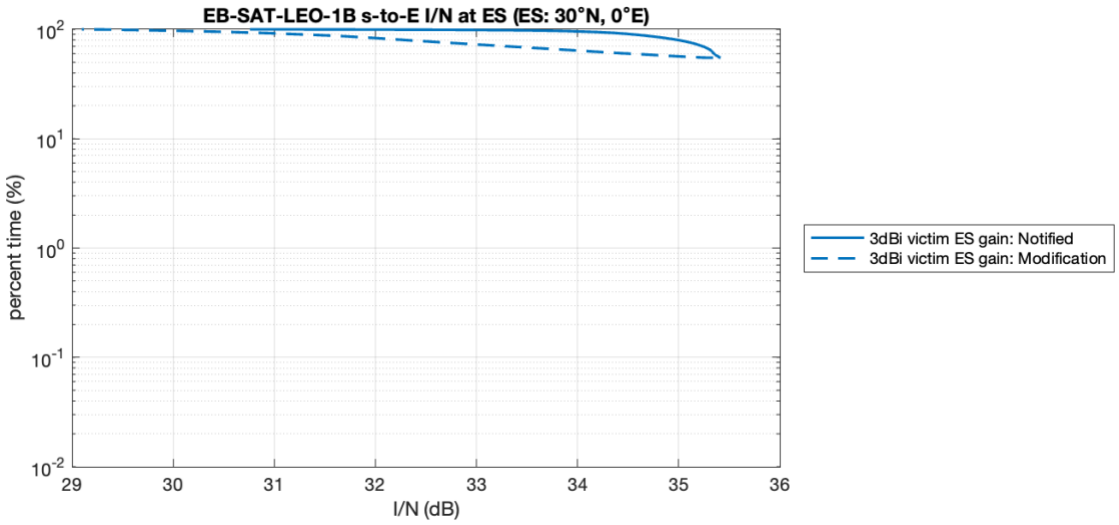

EB-SAT-LEO-1 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

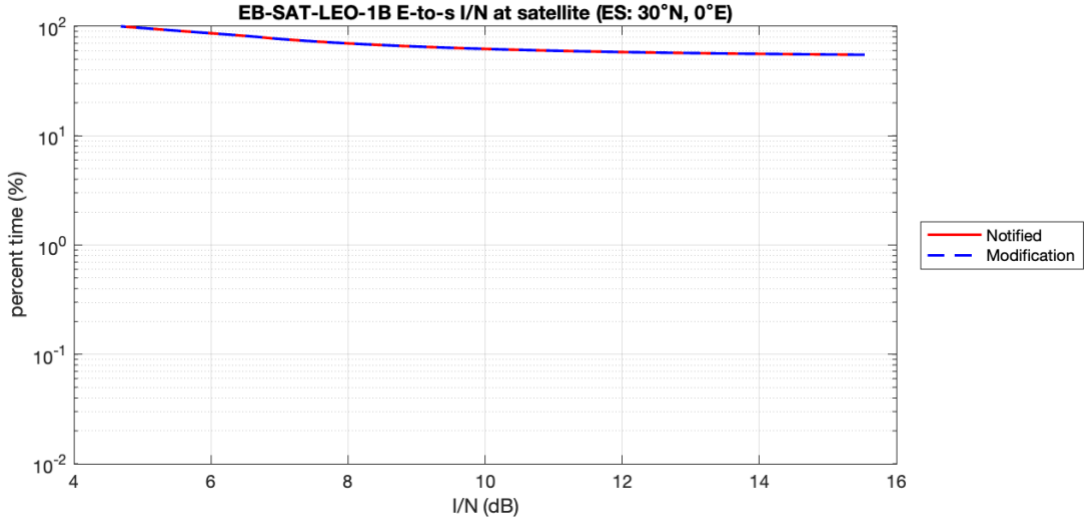

EB-SAT-LEO-1B s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

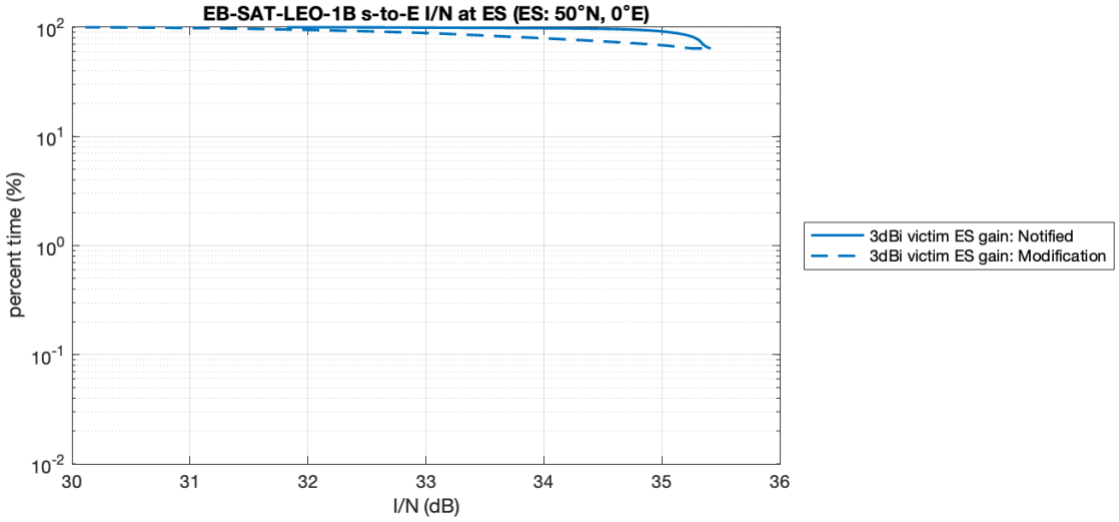

EB-SAT-LEO-1B E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

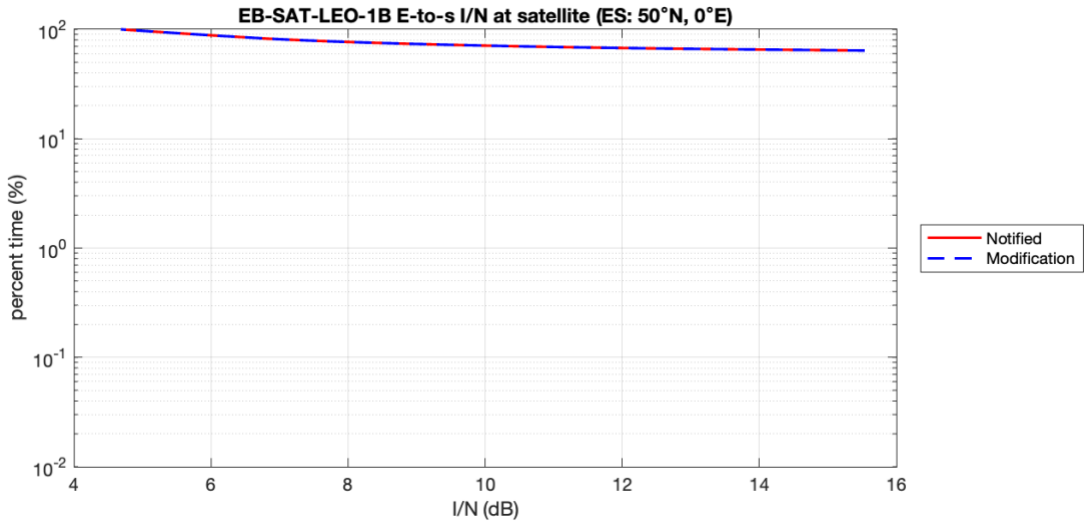

EB-SAT-LEO-1B s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

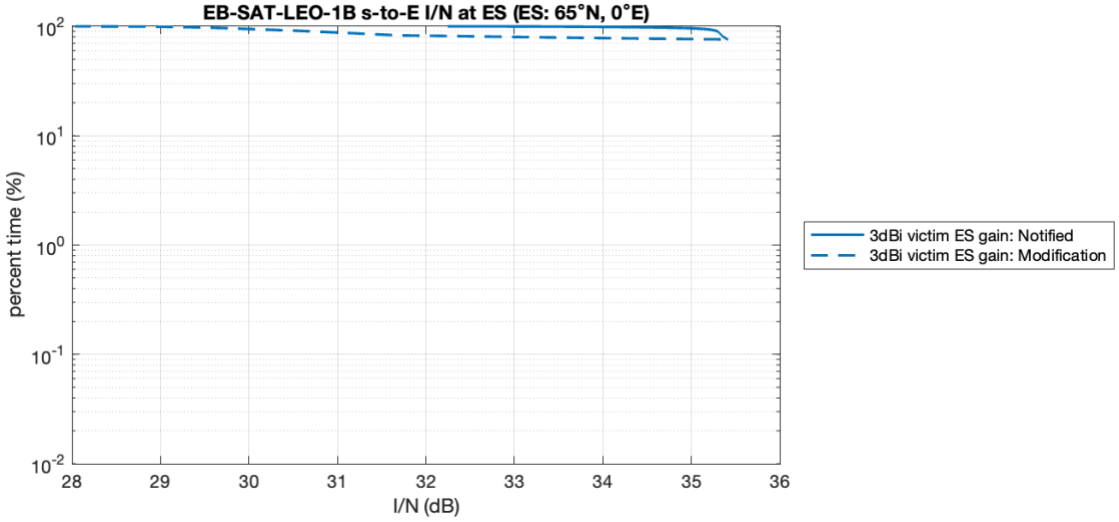

EB-SAT-LEO-1B E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

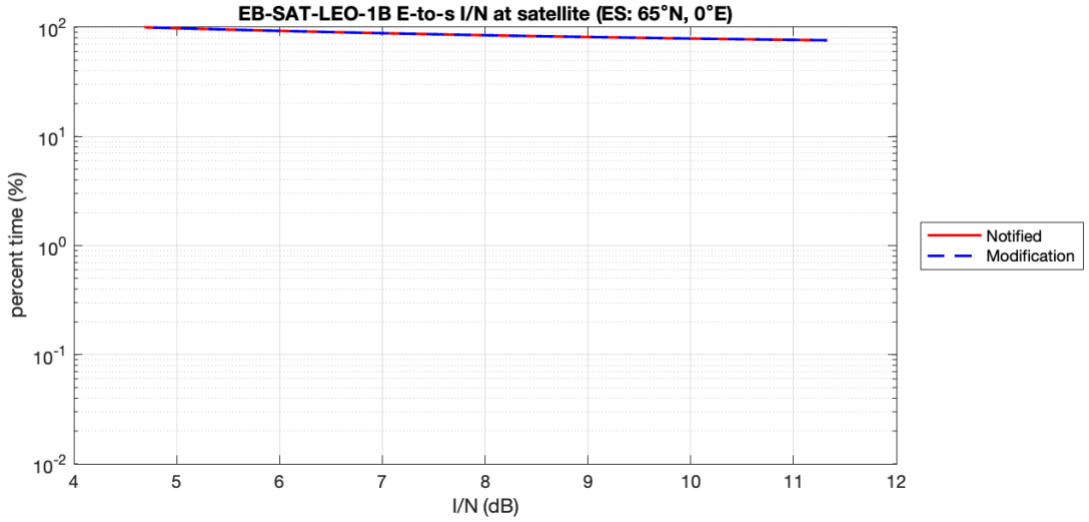

EB-SAT-LEO-1B s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

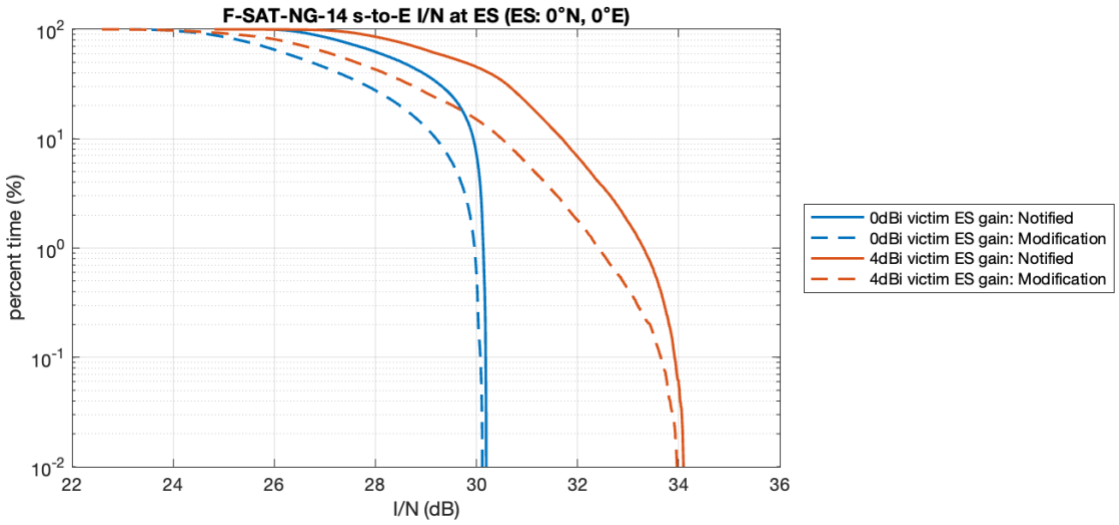

EB-SAT-LEO-1B E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

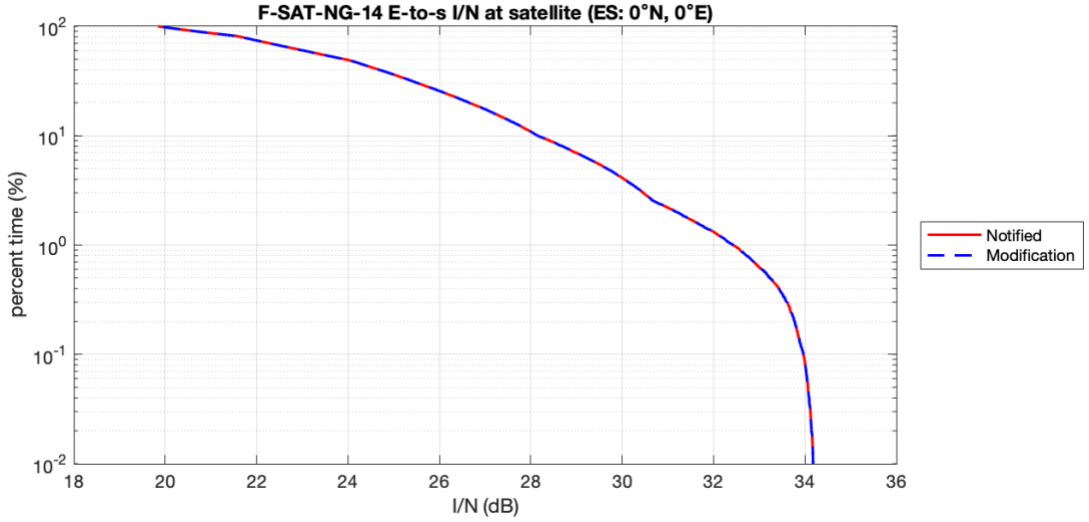

EB-SAT-LEO-1B s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

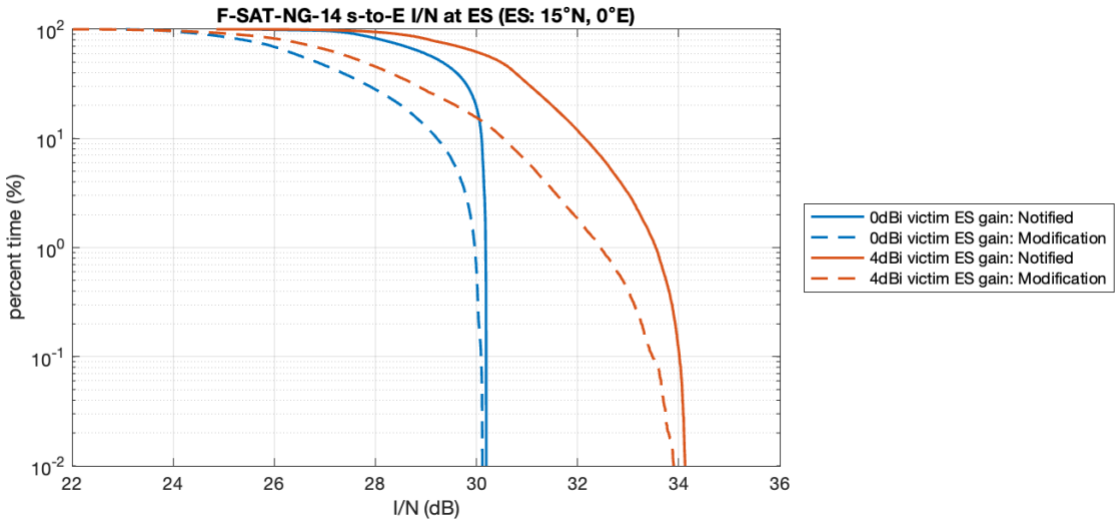

EB-SAT-LEO-1B E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

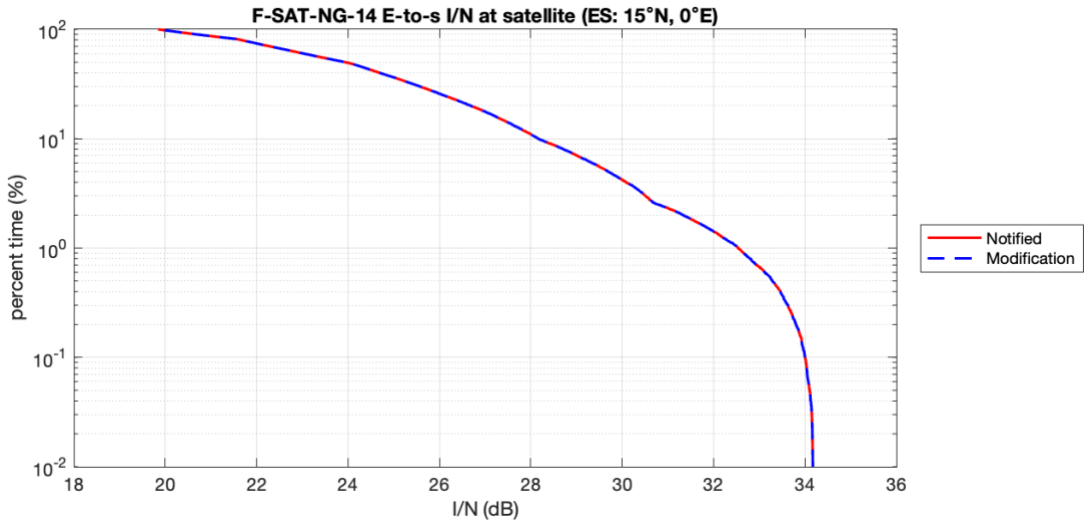

EB-SAT-LEO-1B s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

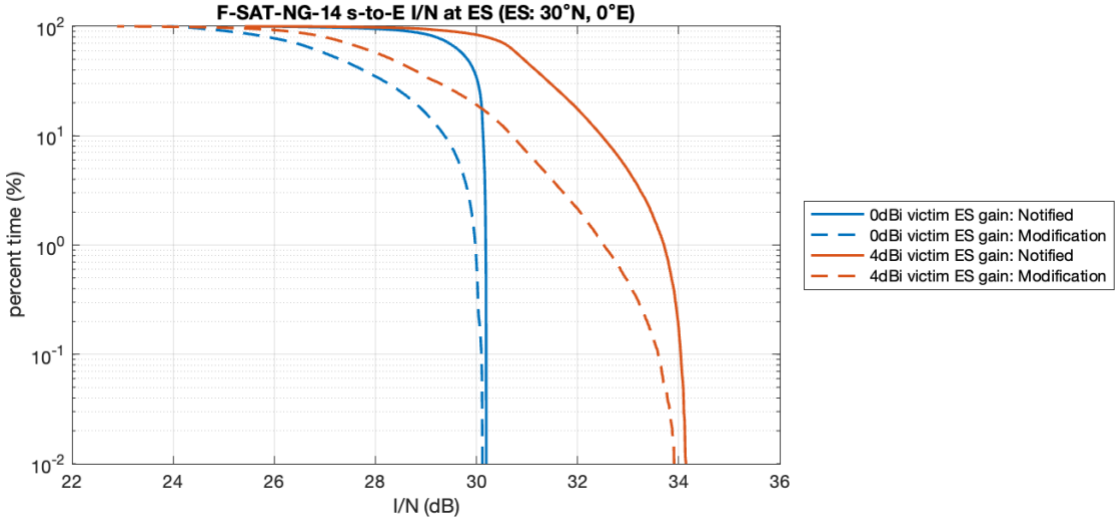

EB-SAT-LEO-1B E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

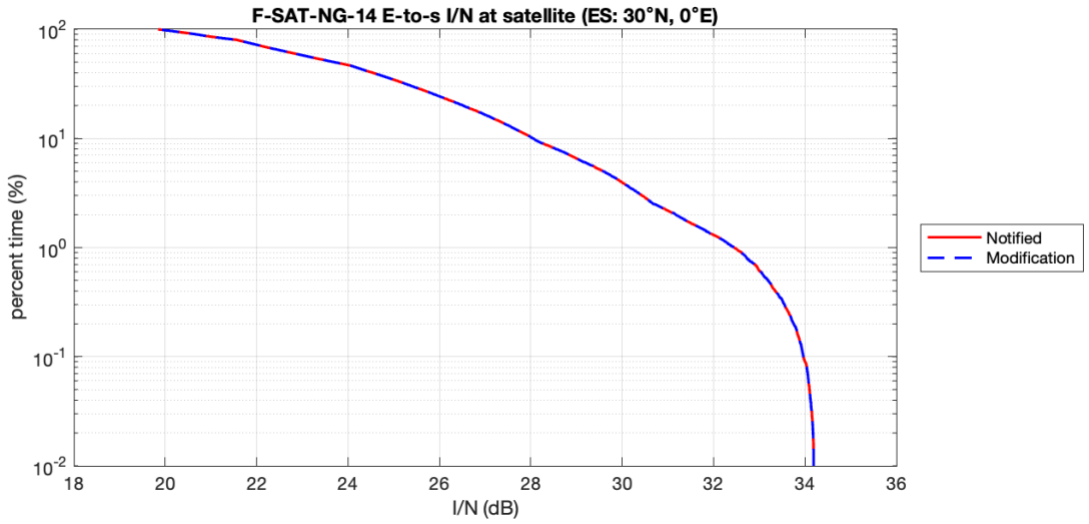

F-SAT-NG-14 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

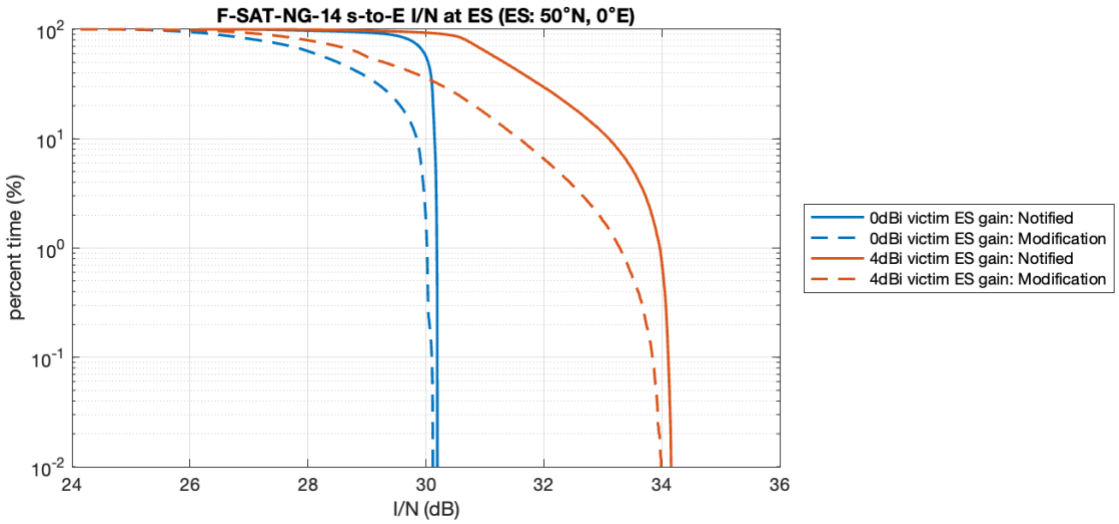

F-SAT-NG-14 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

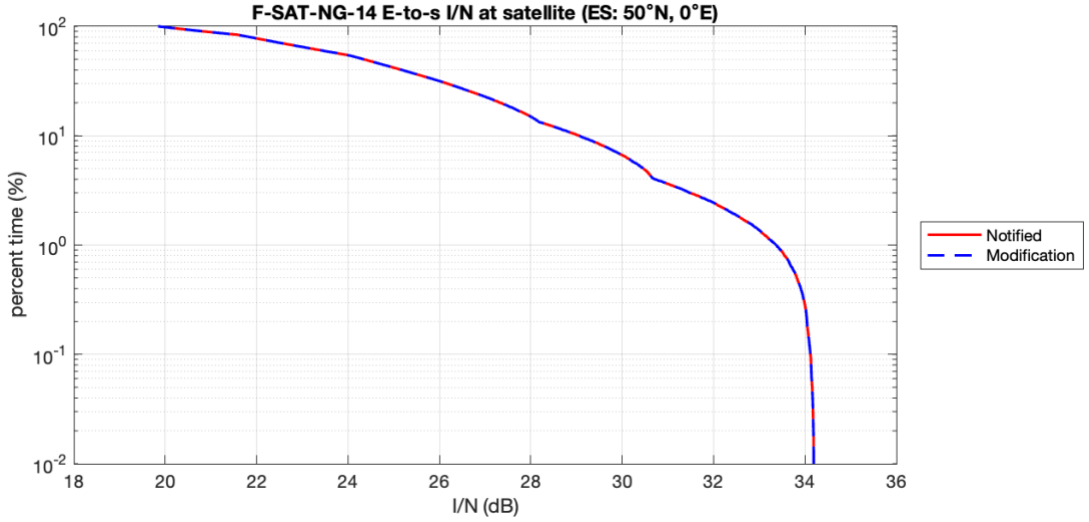

F-SAT-NG-14 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

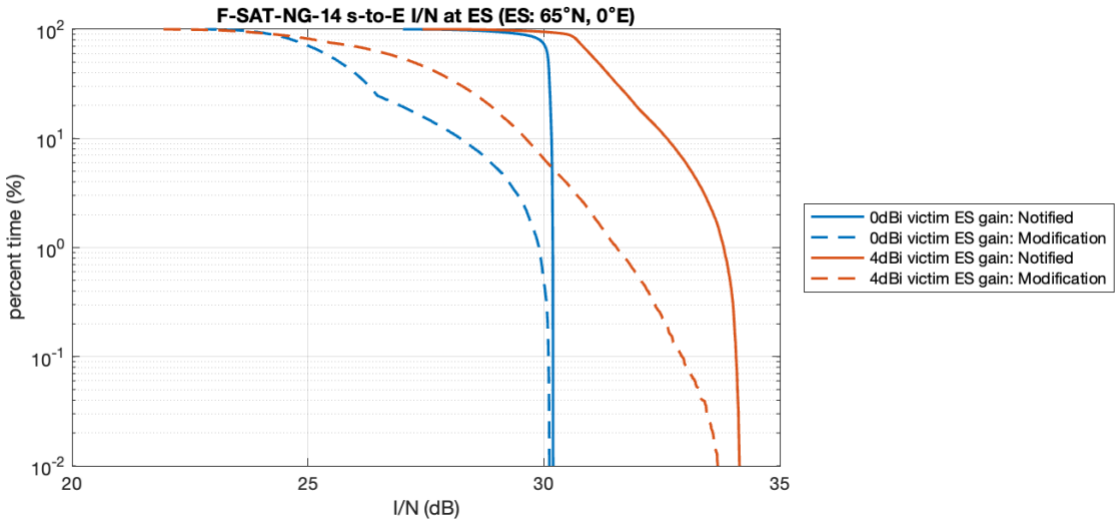

F-SAT-NG-14 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

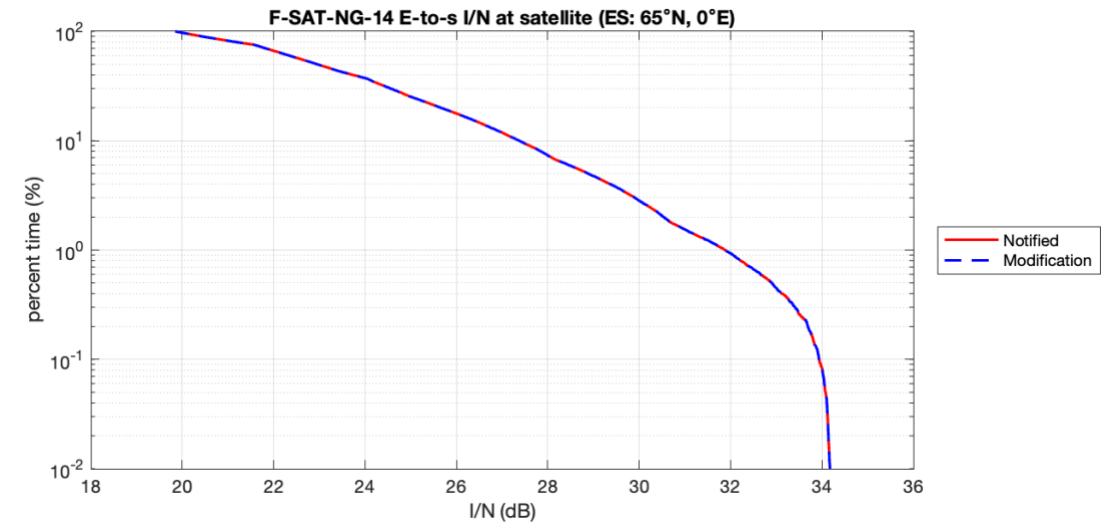

F-SAT-NG-14 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

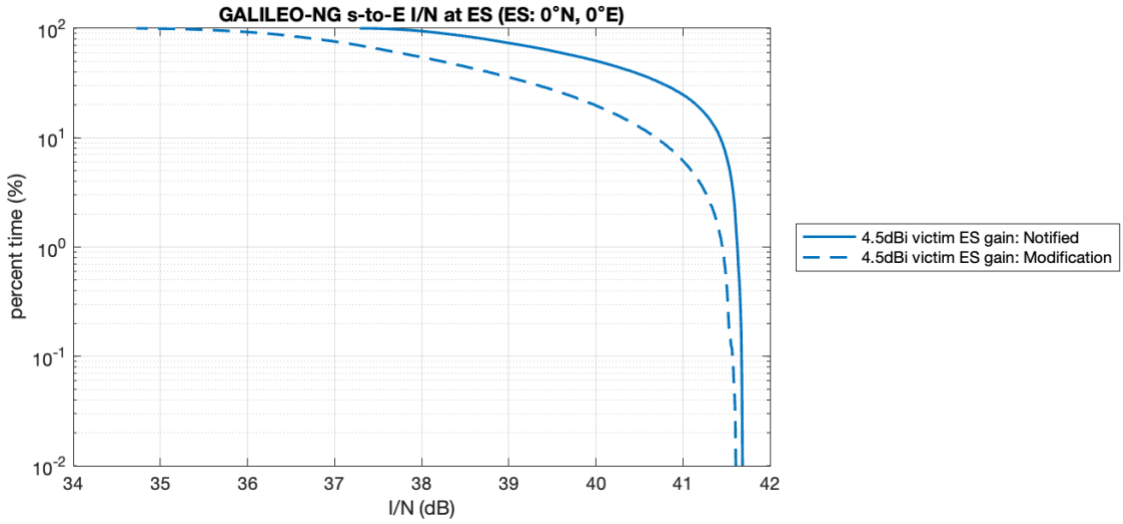

F-SAT-NG-14 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

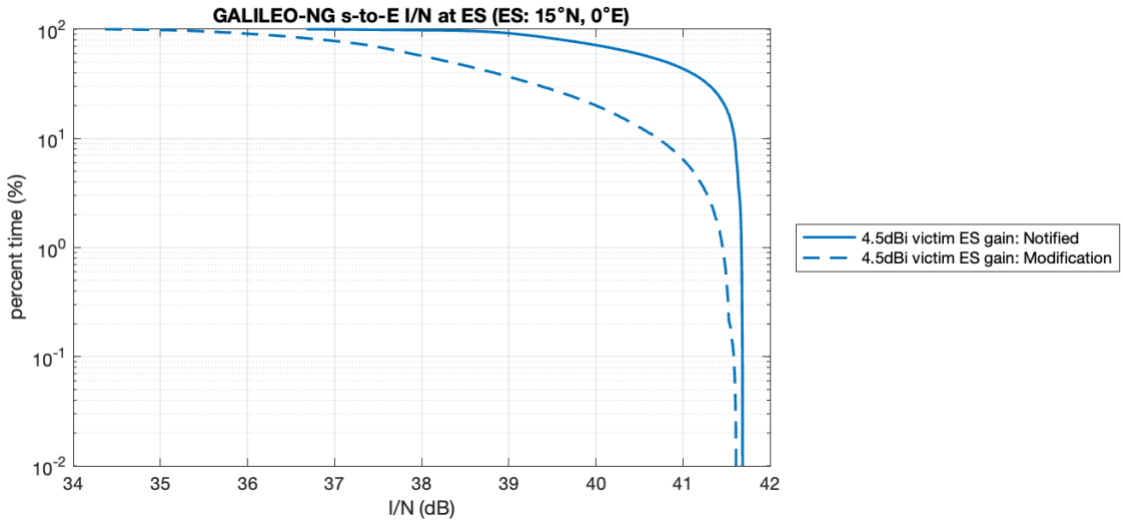

F-SAT-NG-14 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

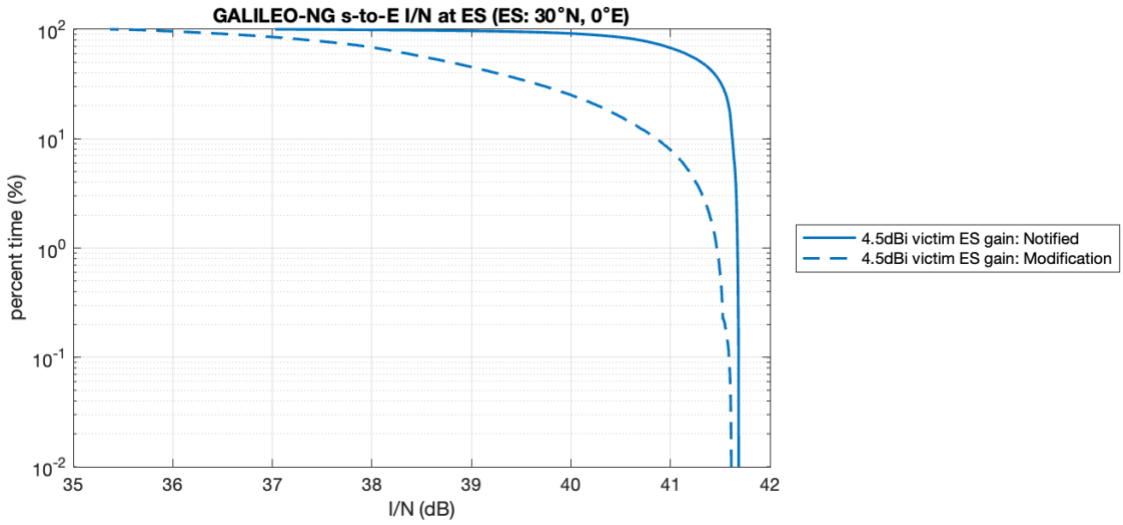

F-SAT-NG-14 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

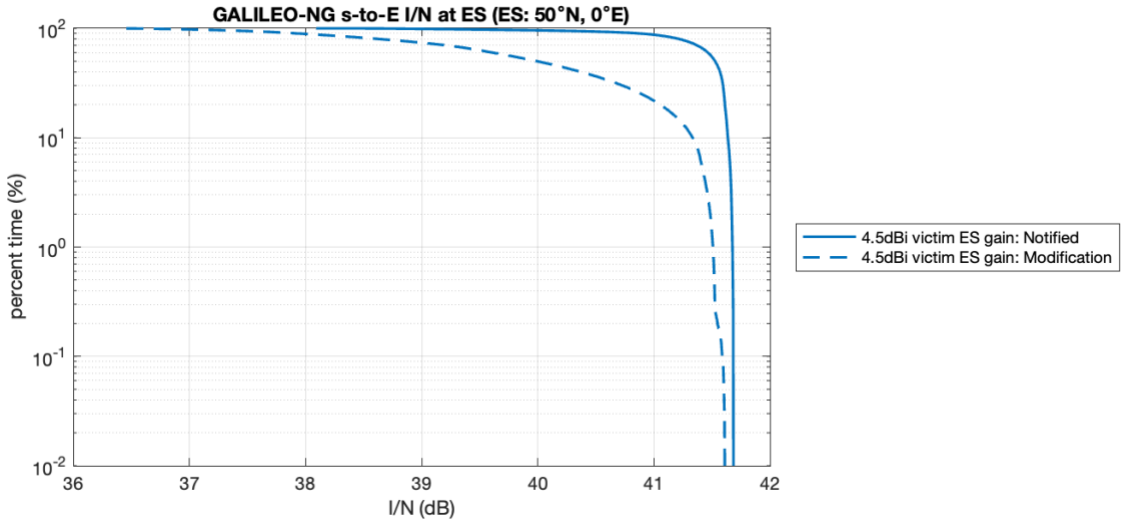

F-SAT-NG-14 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

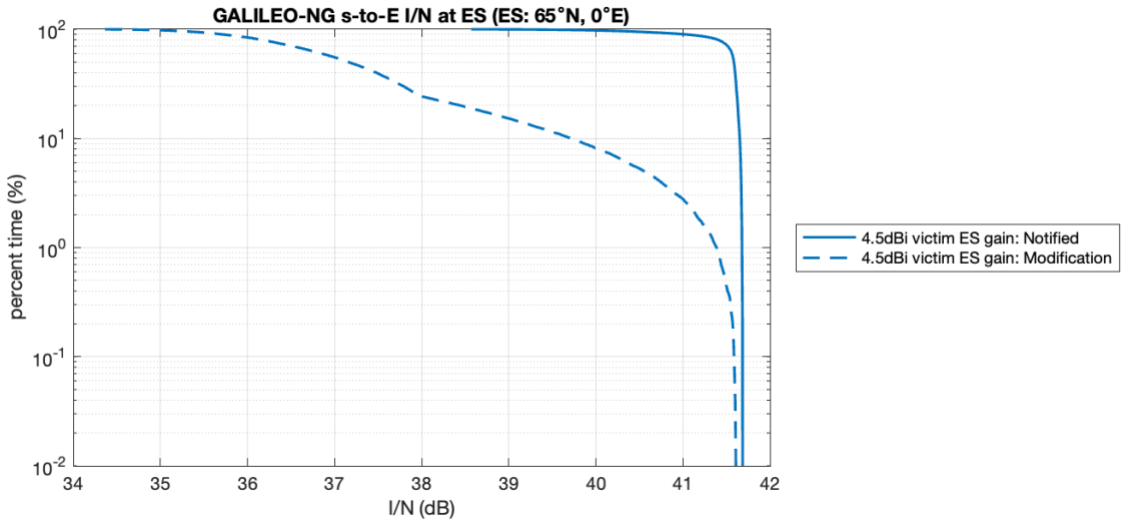

F-SAT-NG-14 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

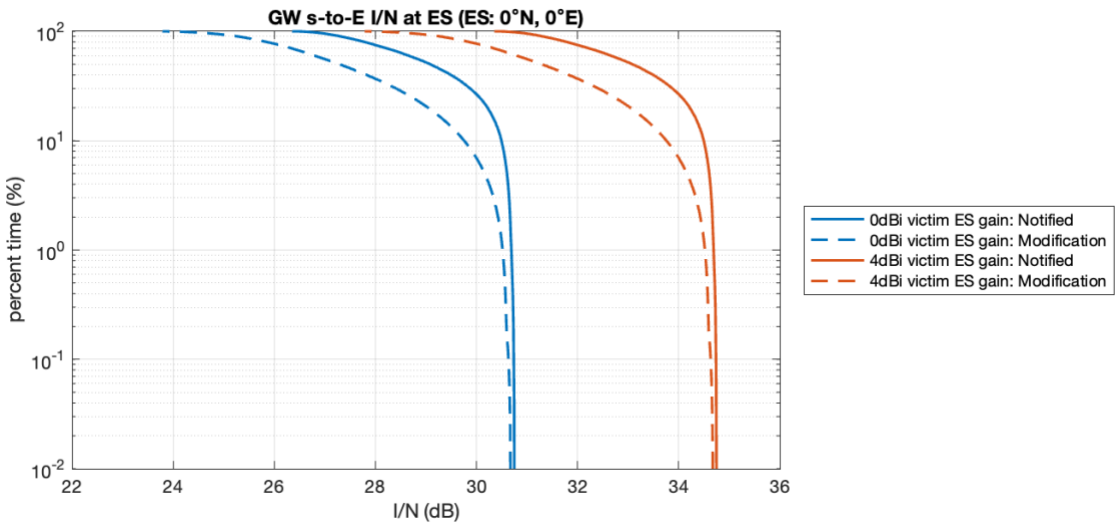

GALILEO-NG s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

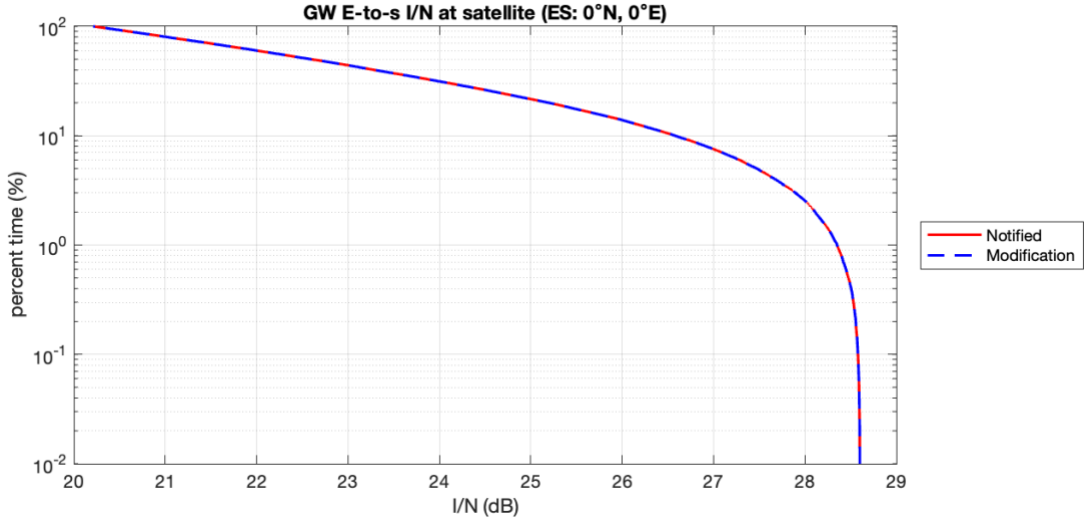

GALILEO-NG s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

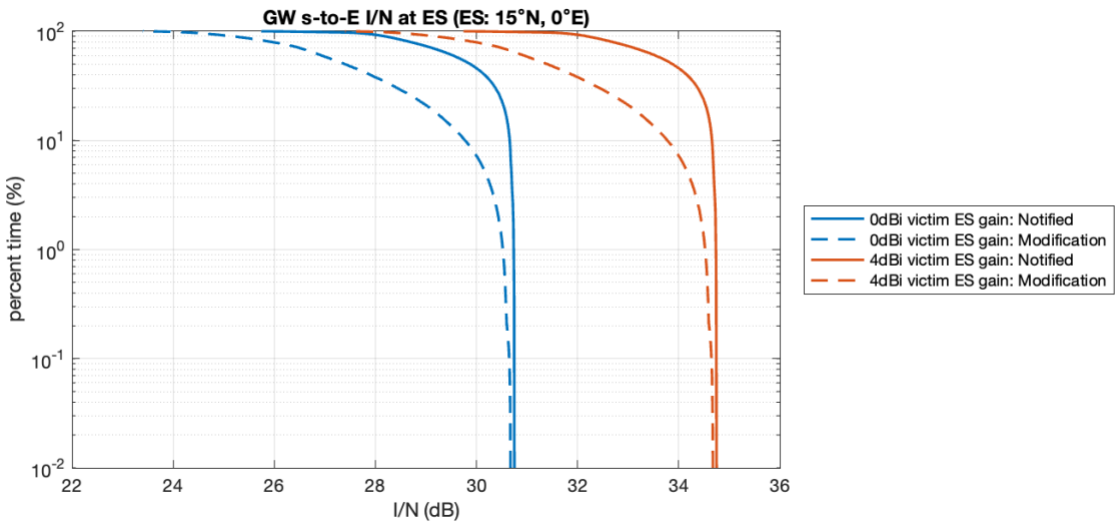

GALILEO-NG s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

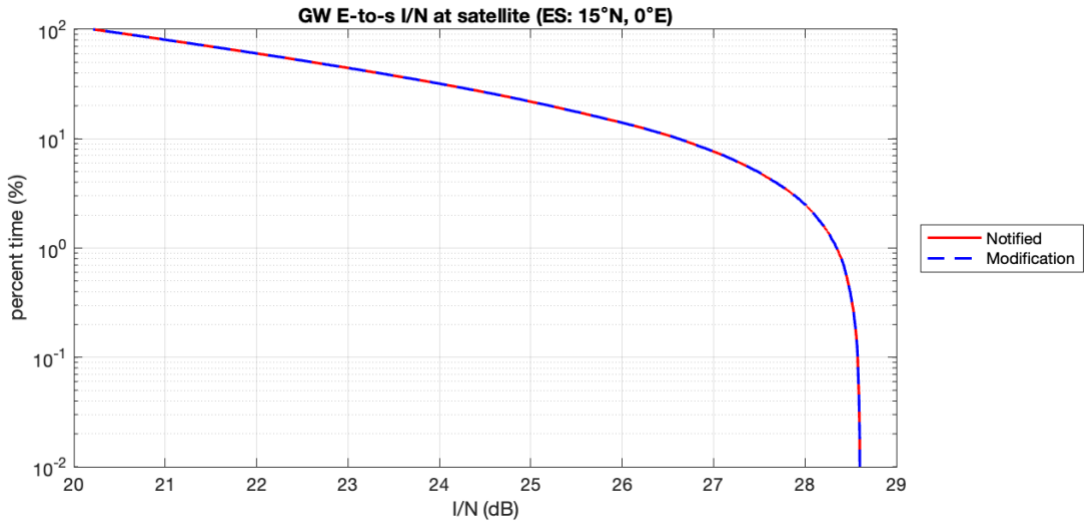

GALILEO-NG s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

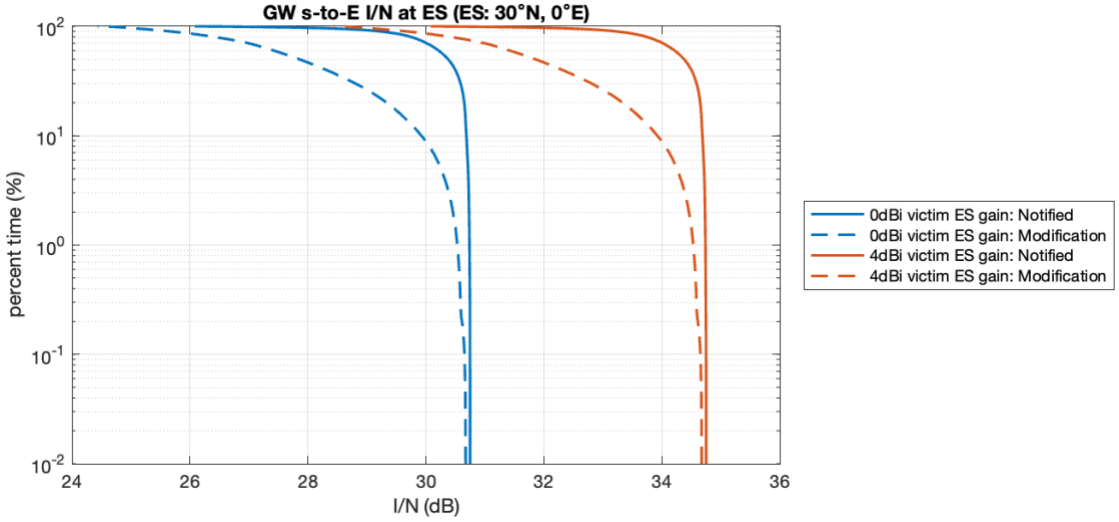

GALILEO-NG s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

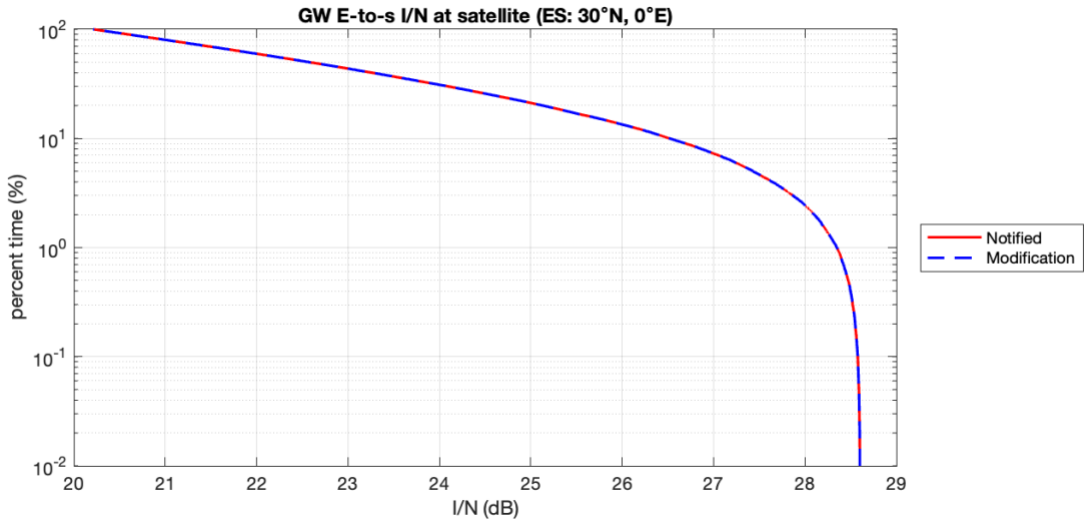

GW s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

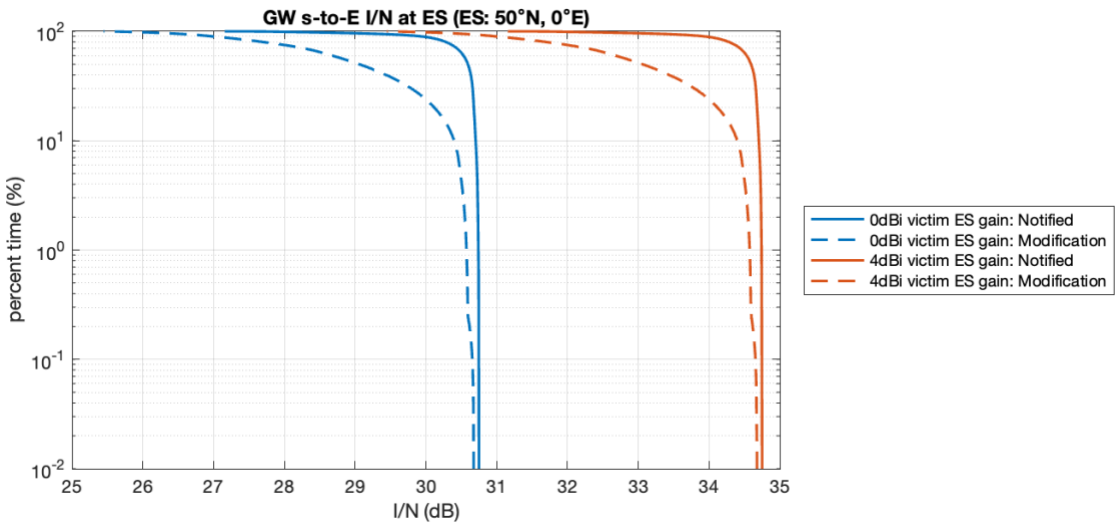

GW E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

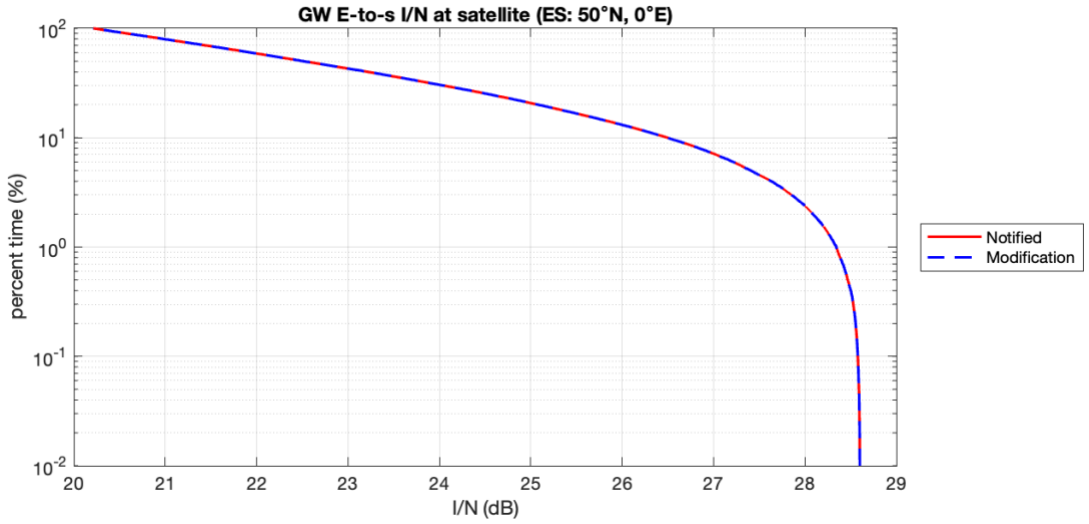

GW s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

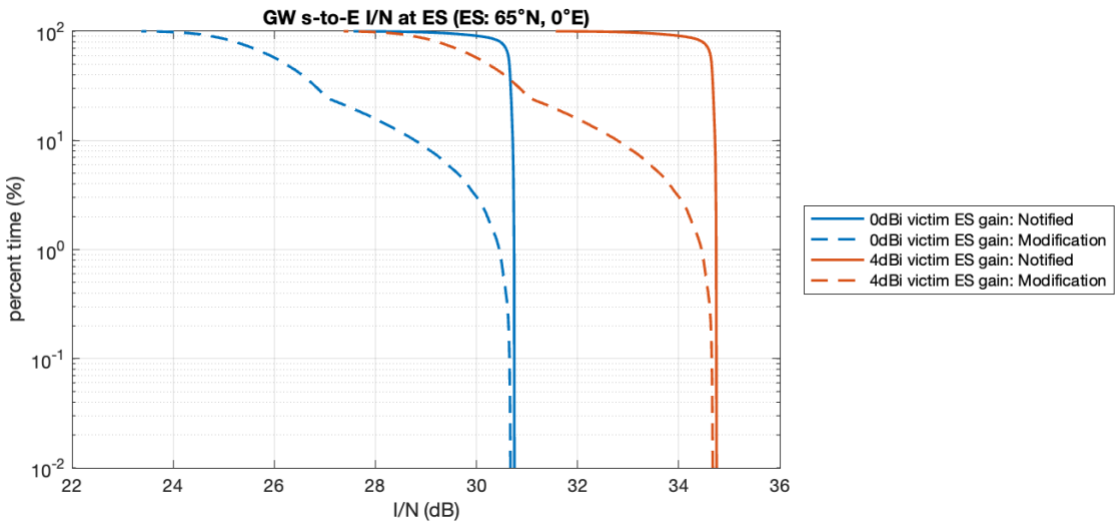

GW E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

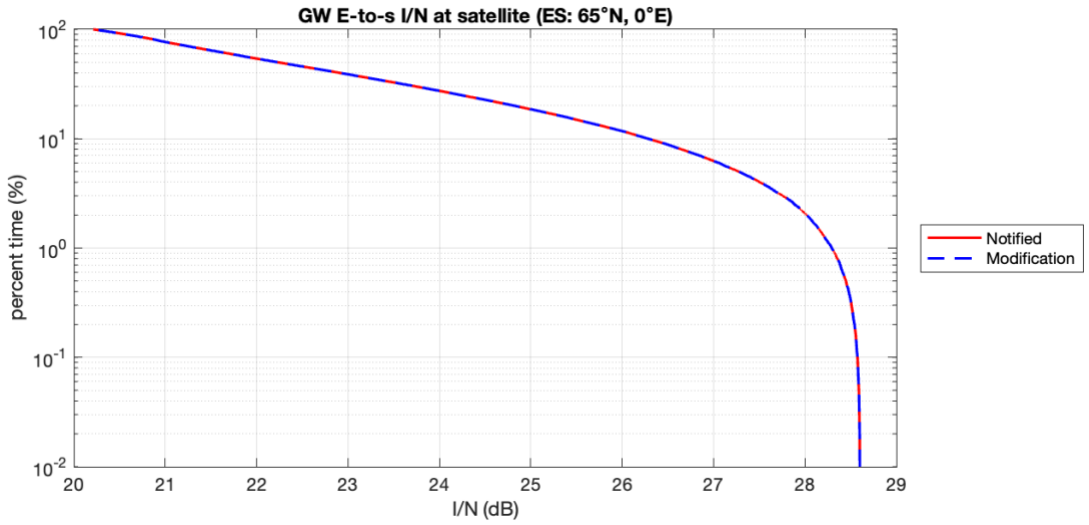

GW s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

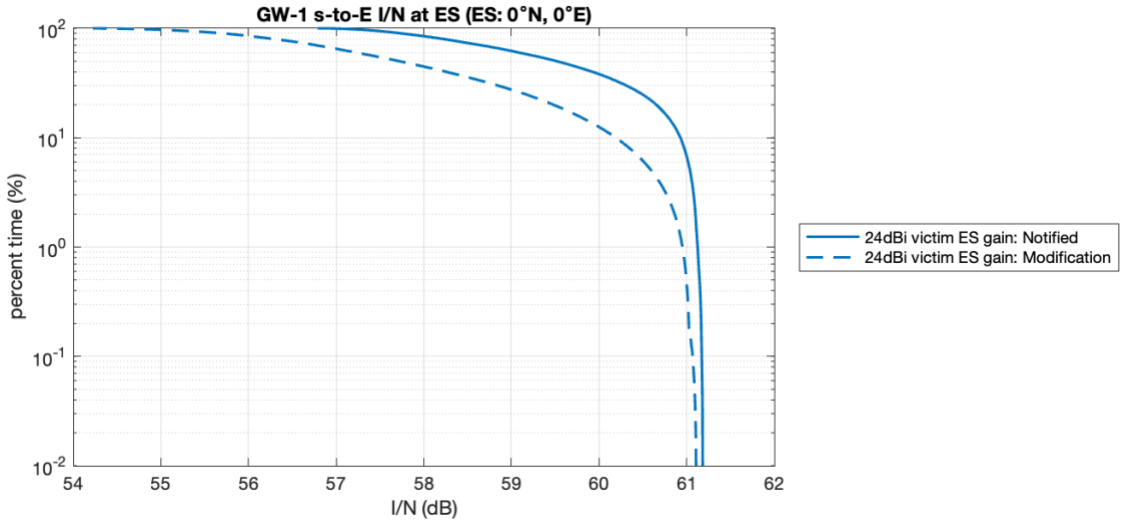

GW E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

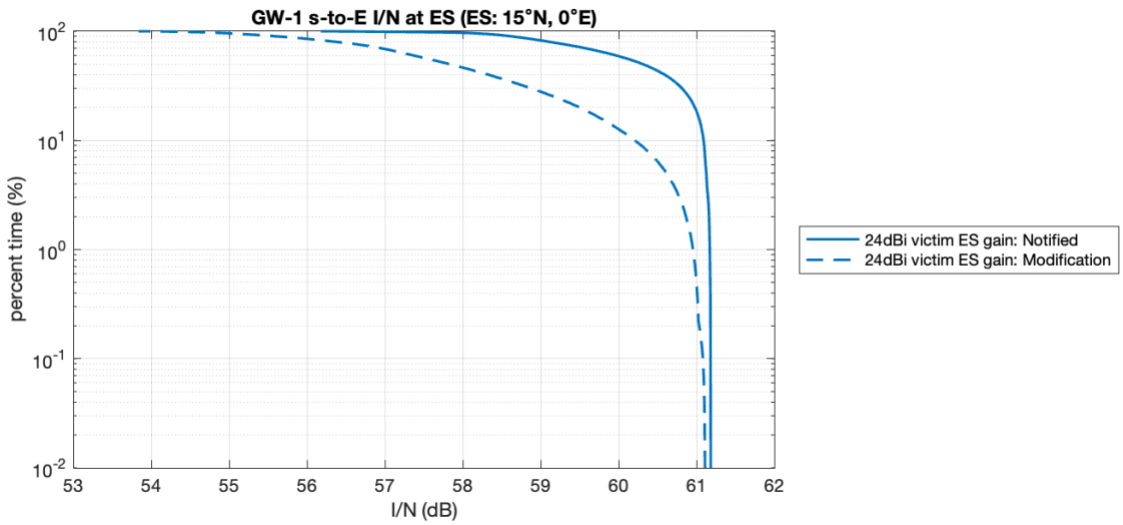

GW s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

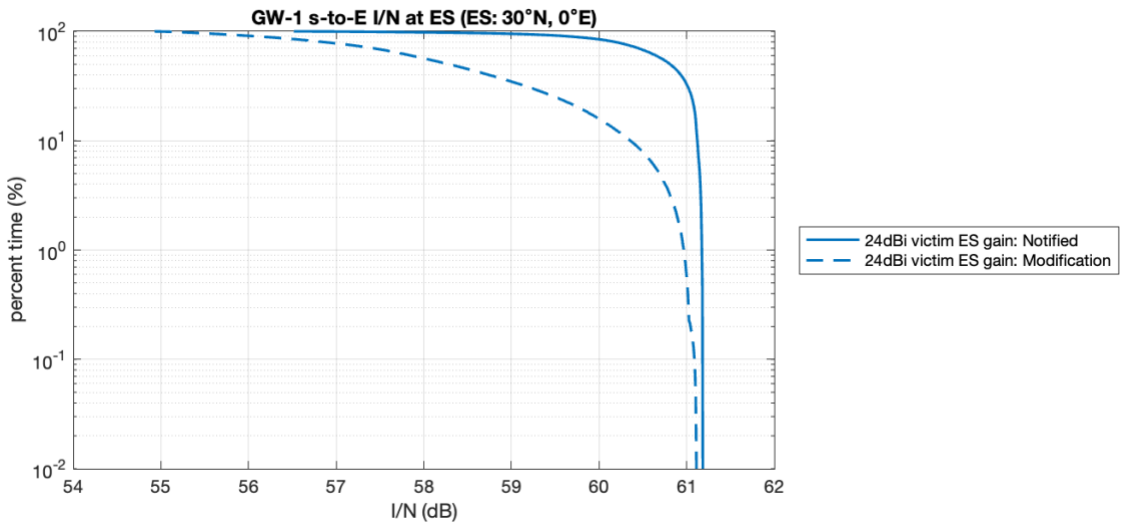

GW E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

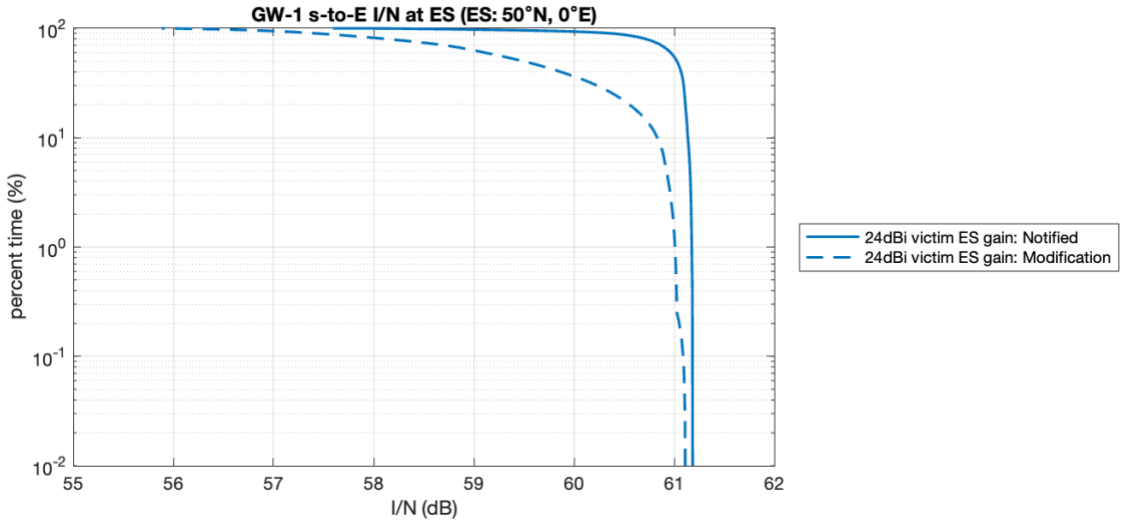

GW s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

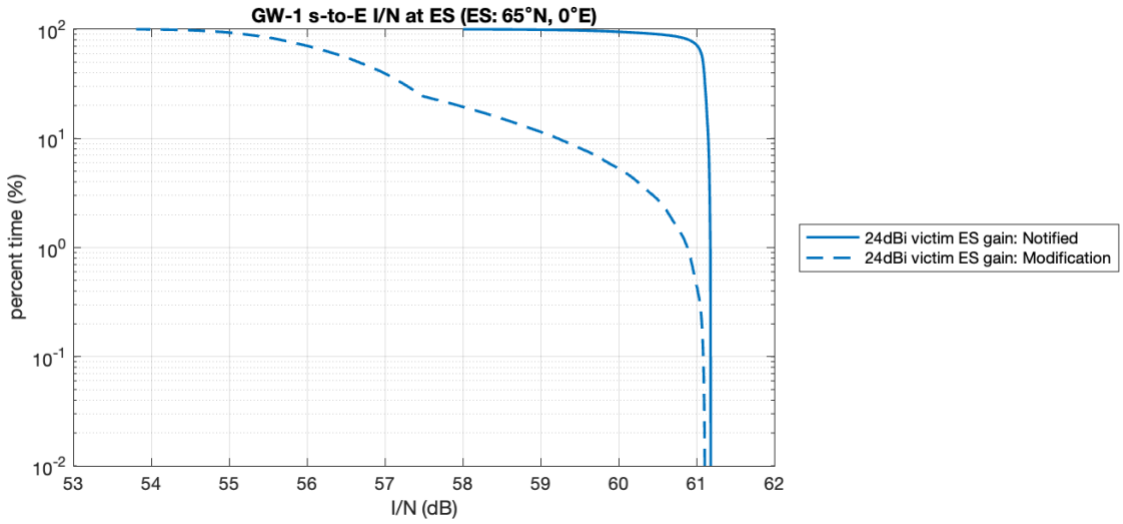

GW E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

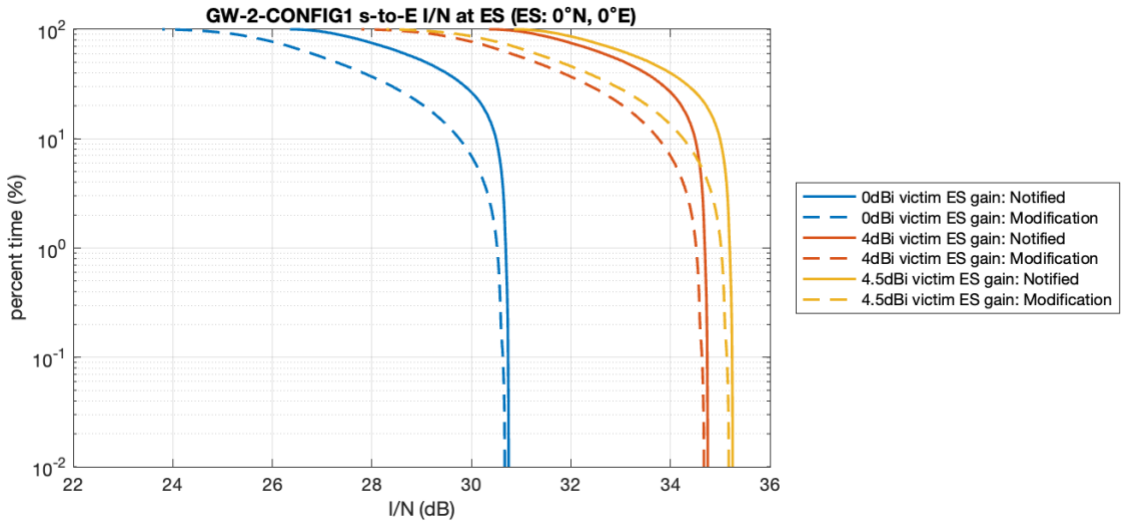

GW-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
24dBi victim ES gain: Notified
24dBi victim ES gain: Modification

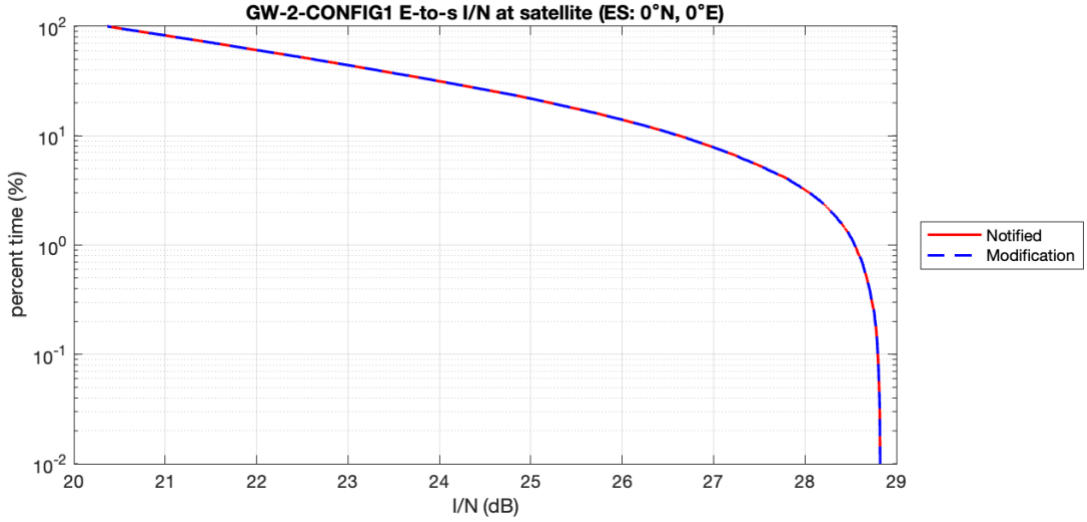

GW-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
24dBi victim ES gain: Notified
24dBi victim ES gain: Modification

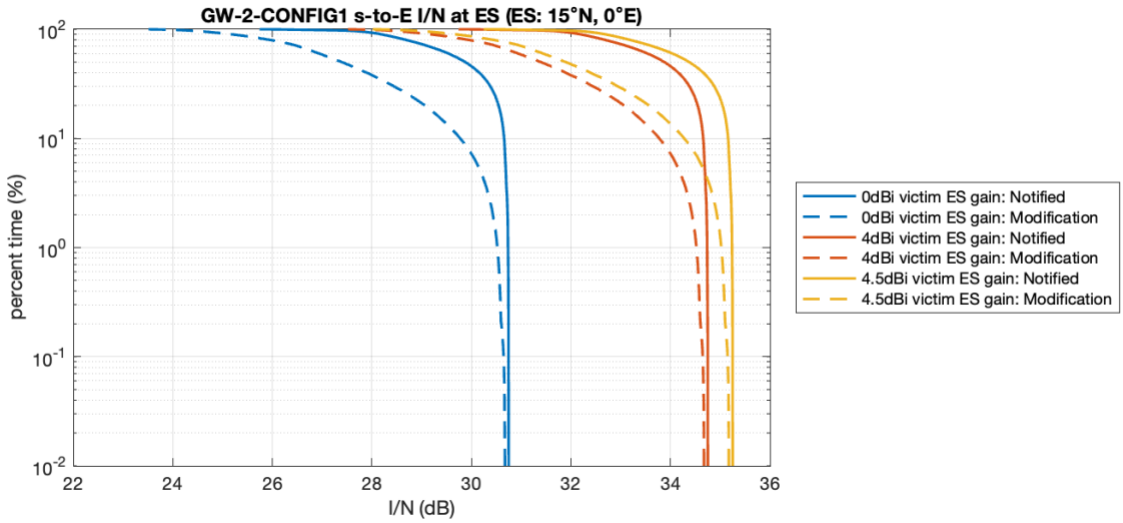

GW-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
24dBi victim ES gain: Notified
24dBi victim ES gain: Modification

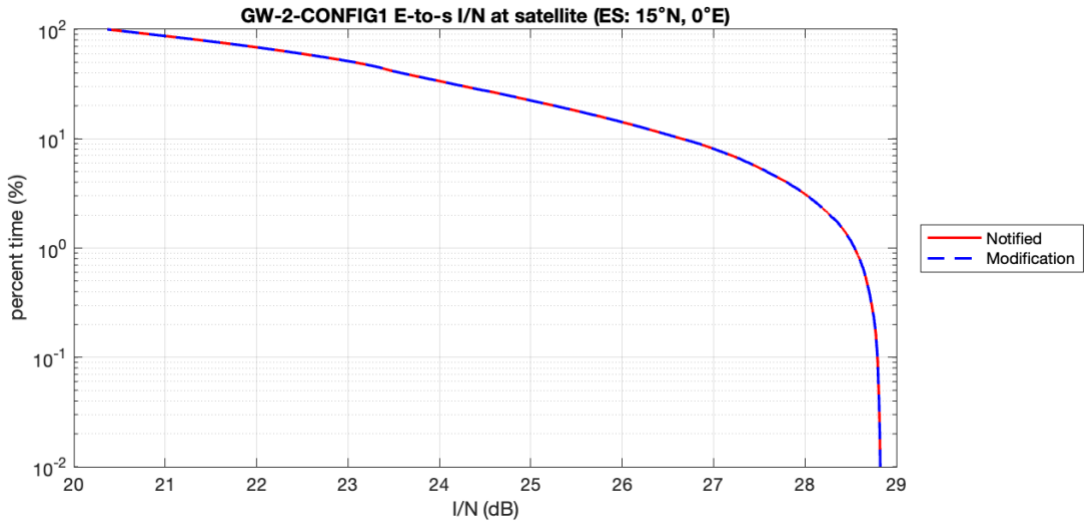

GW-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
24dBi victim ES gain: Notified
24dBi victim ES gain: Modification

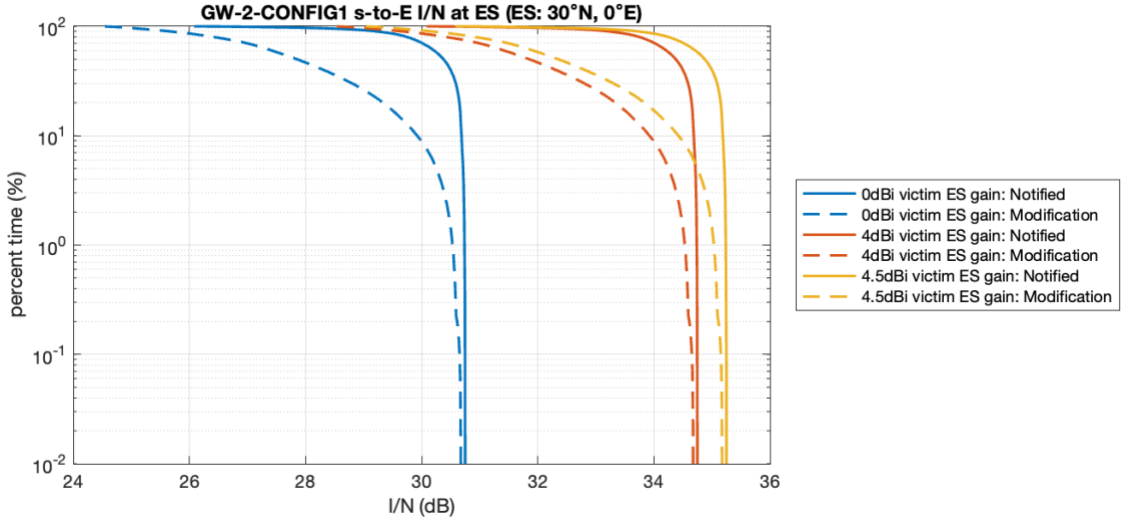

GW-1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
24dBi victim ES gain: Notified
24dBi victim ES gain: Modification

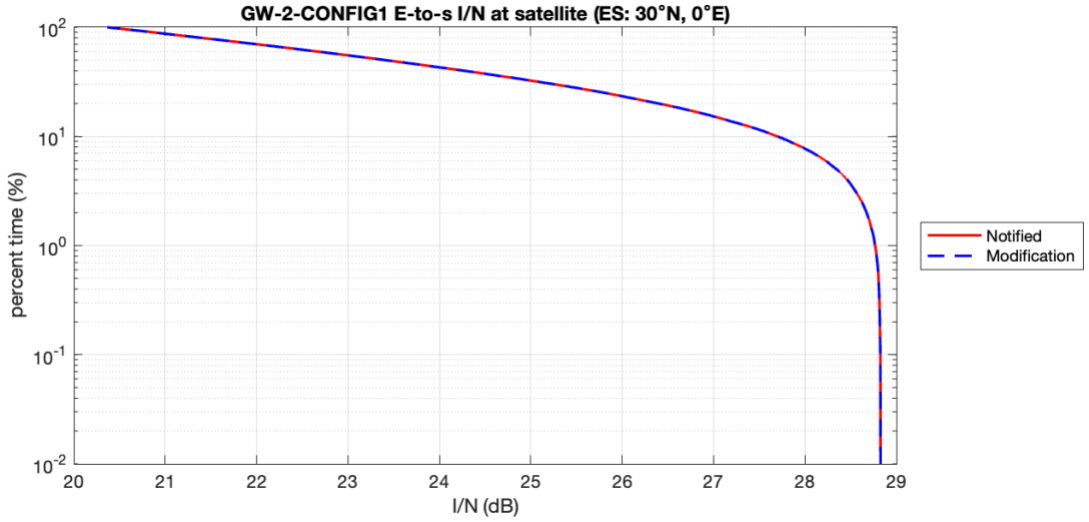

GW-2-CONFIG1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

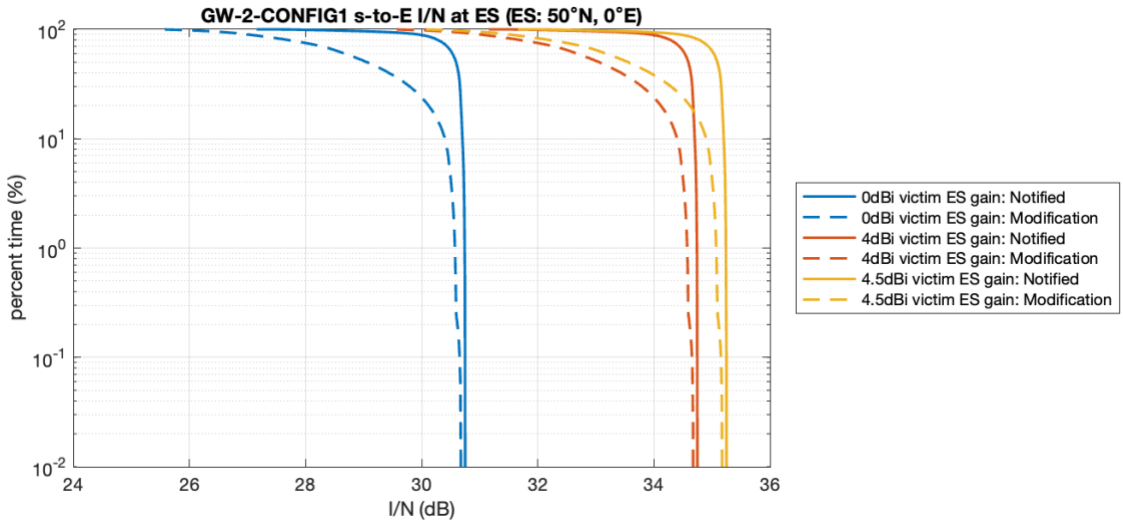

GW-2-CONFIG1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

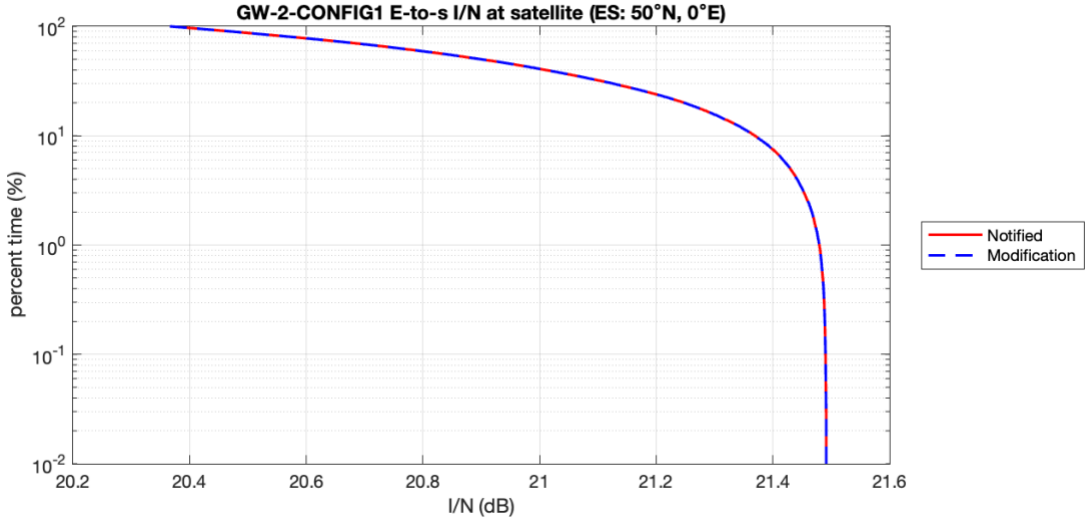

GW-2-CONFIG1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

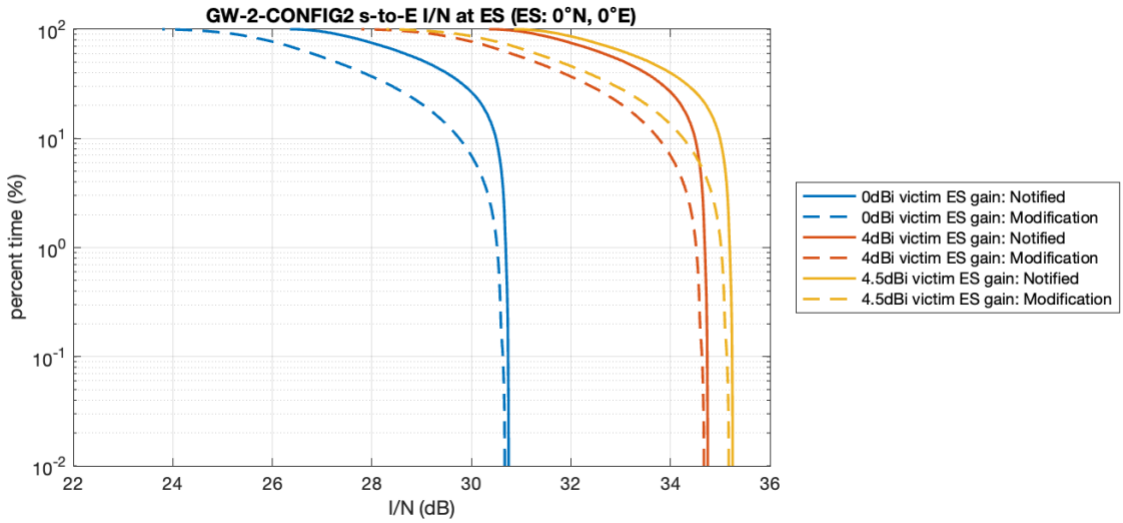

GW-2-CONFIG1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

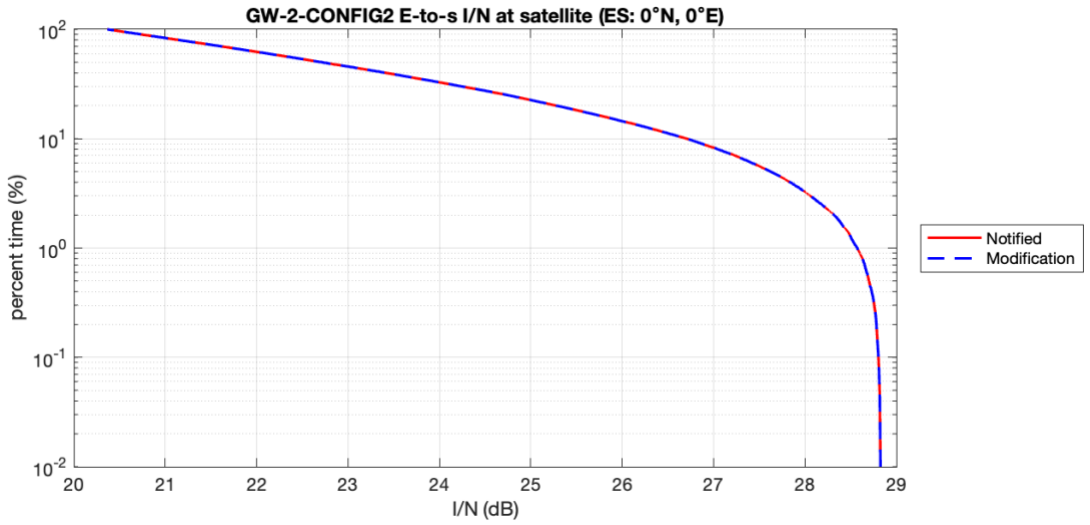

GW-2-CONFIG1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

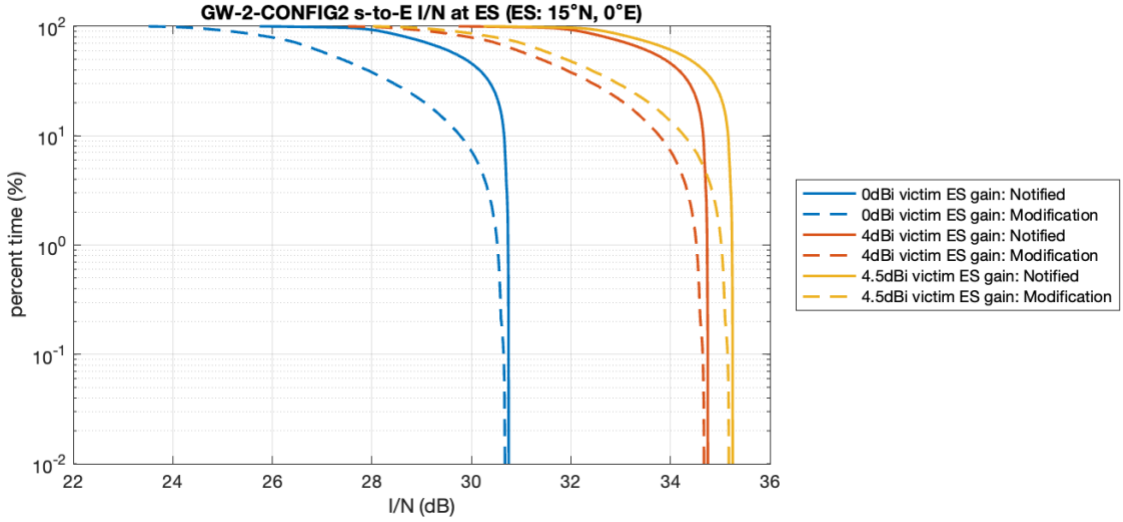

GW-2-CONFIG1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

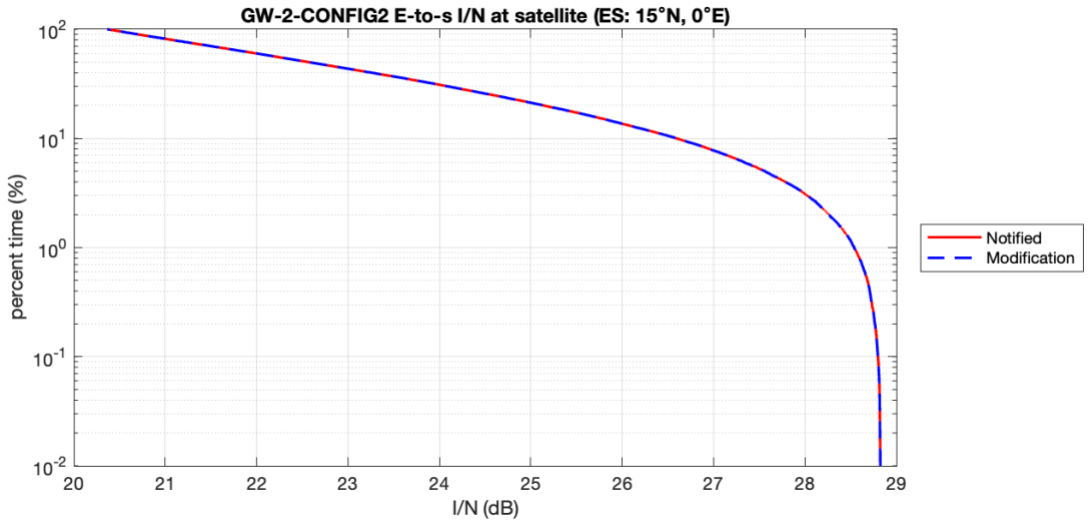

GW-2-CONFIG1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

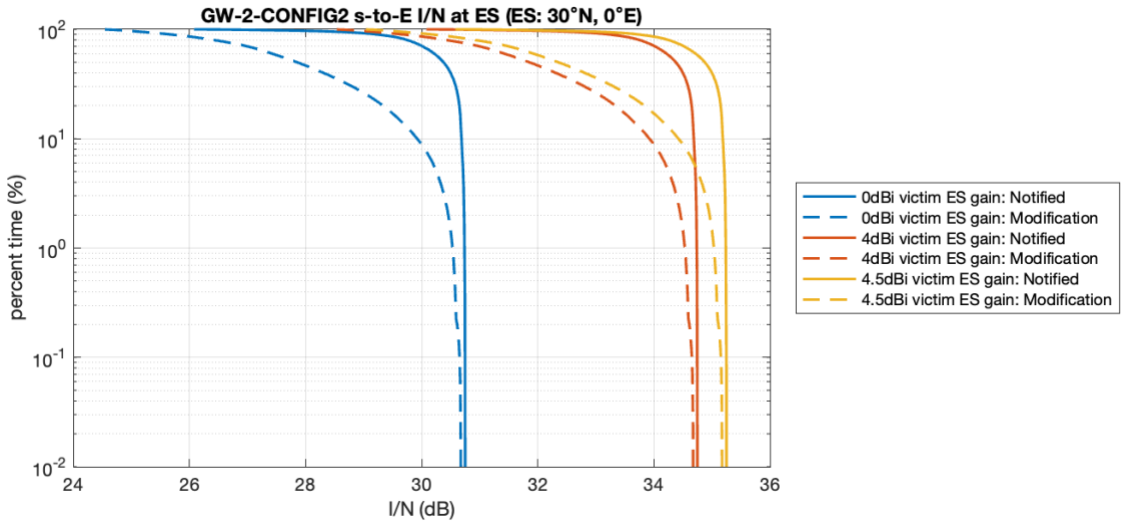

GW-2-CONFIG1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

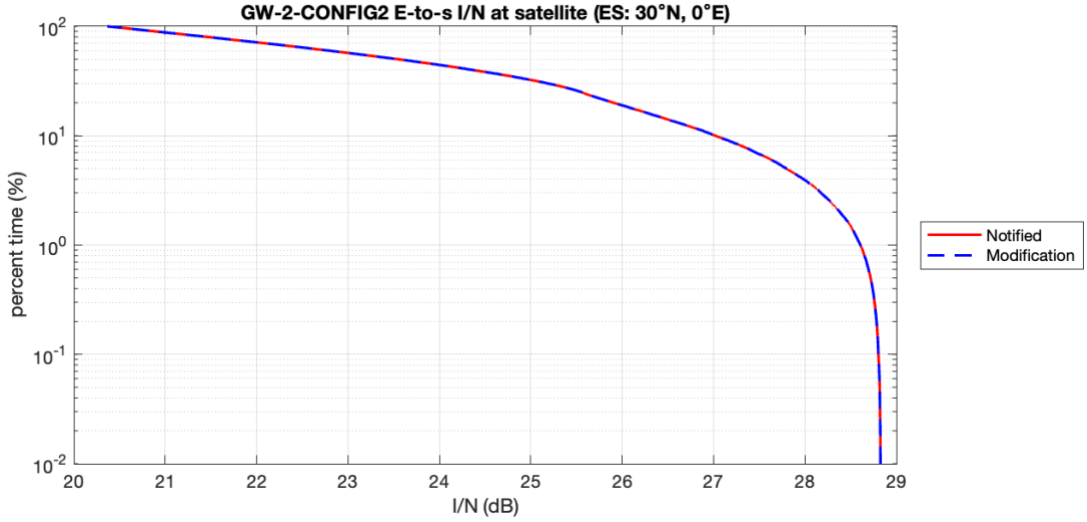

GW-2-CONFIG2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

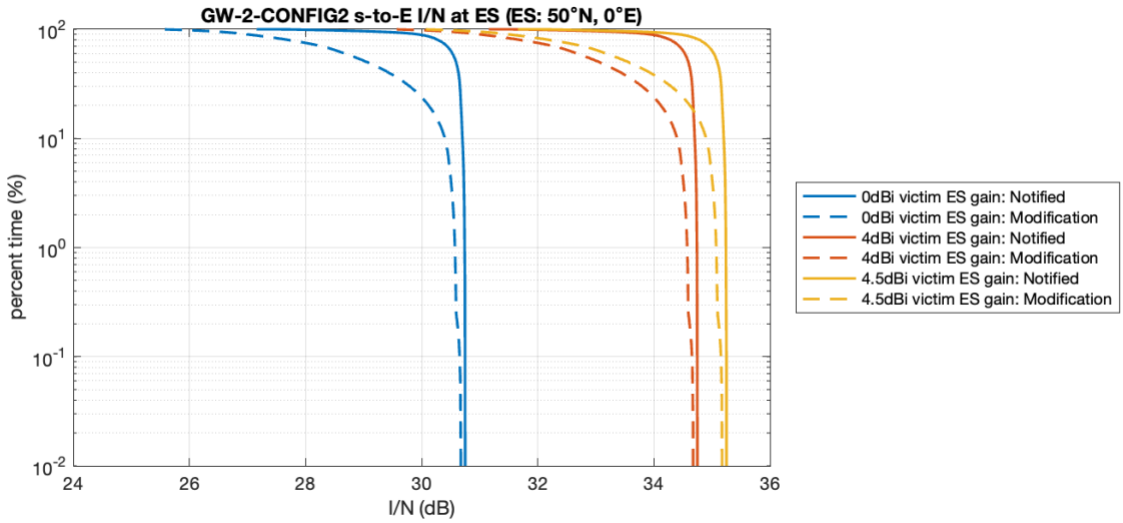

GW-2-CONFIG2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

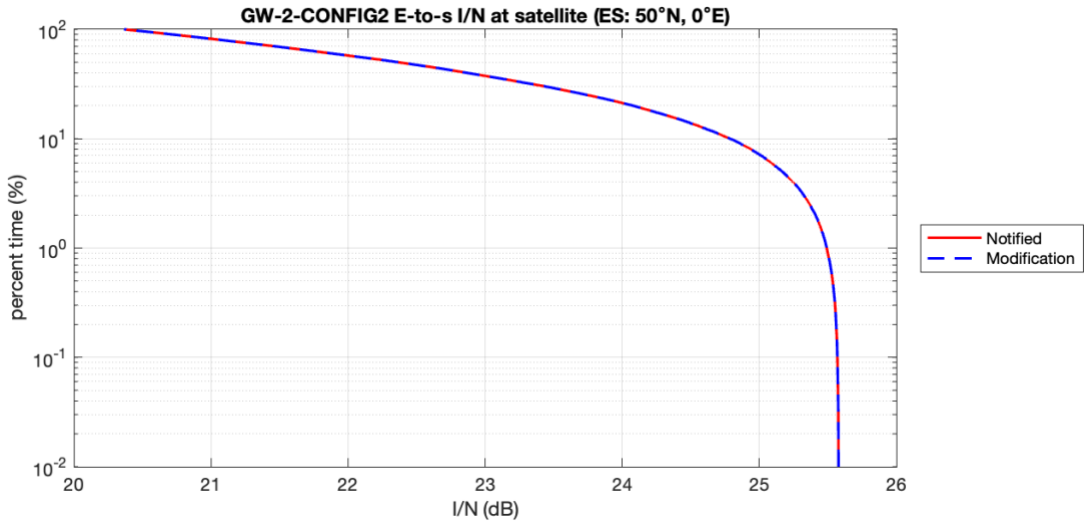

GW-2-CONFIG2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

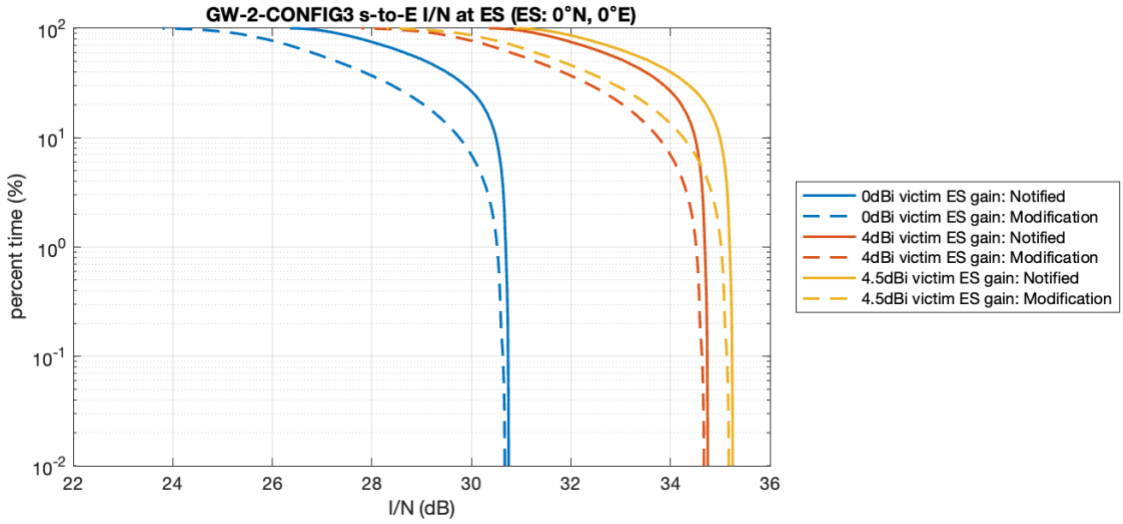

GW-2-CONFIG2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

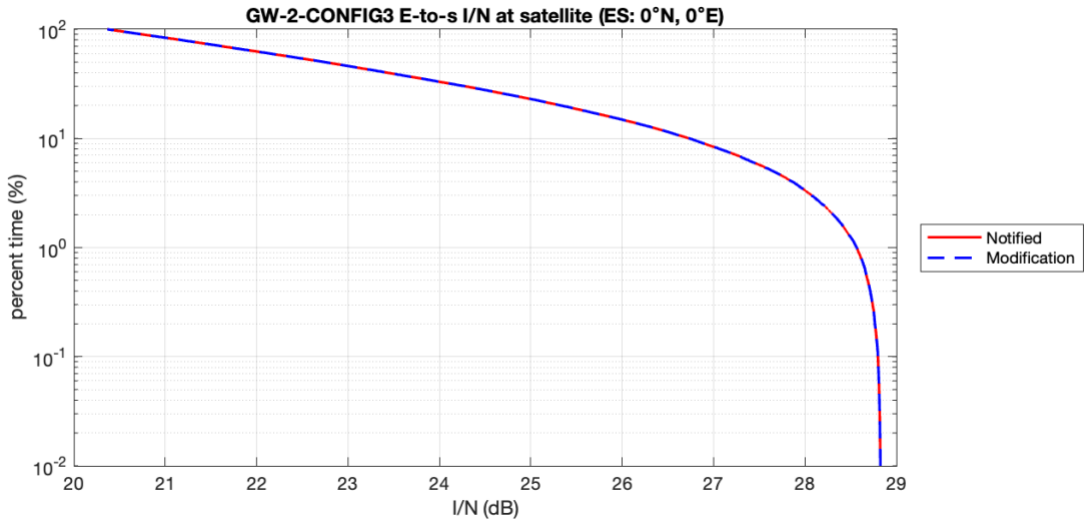

GW-2-CONFIG2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

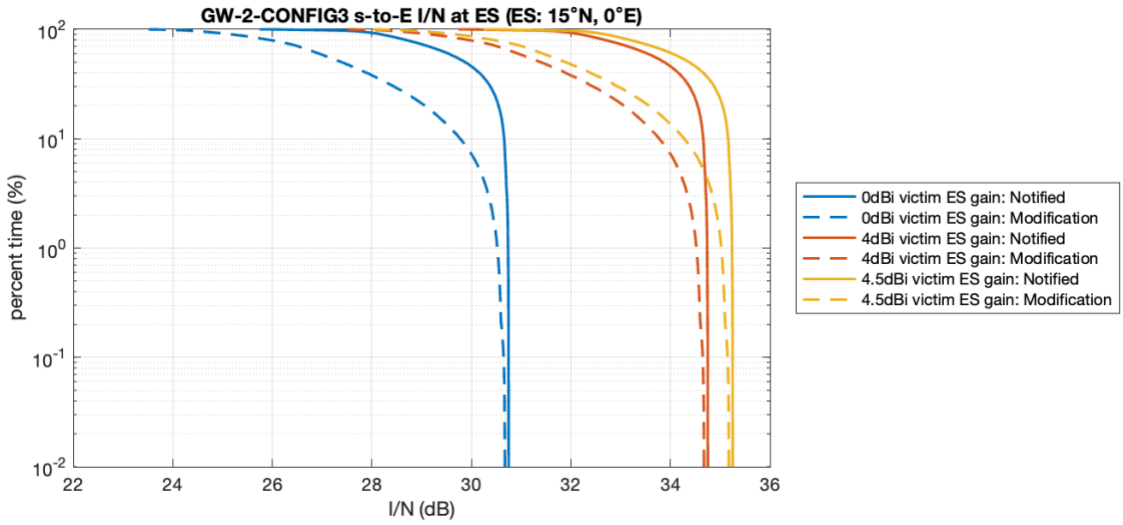

GW-2-CONFIG2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

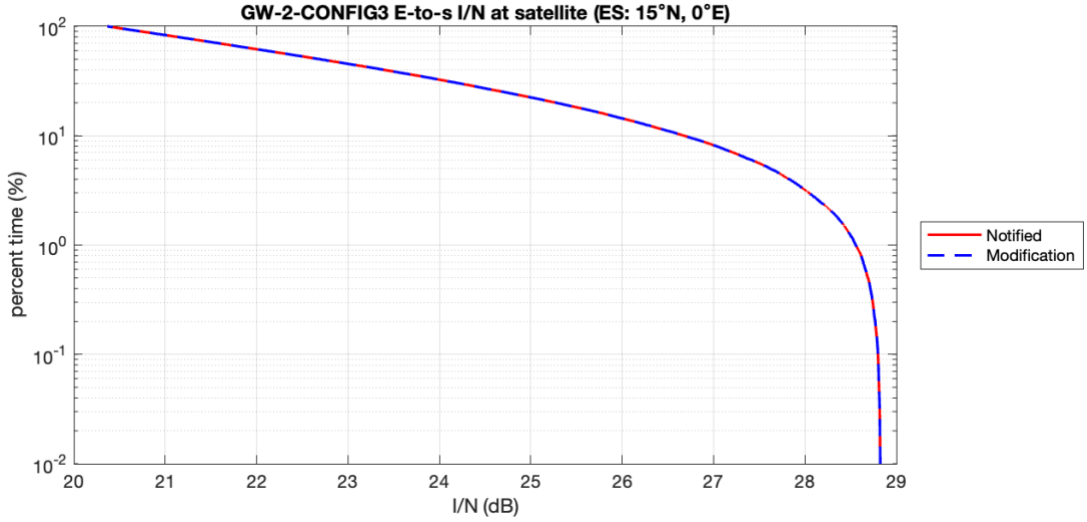

GW-2-CONFIG2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

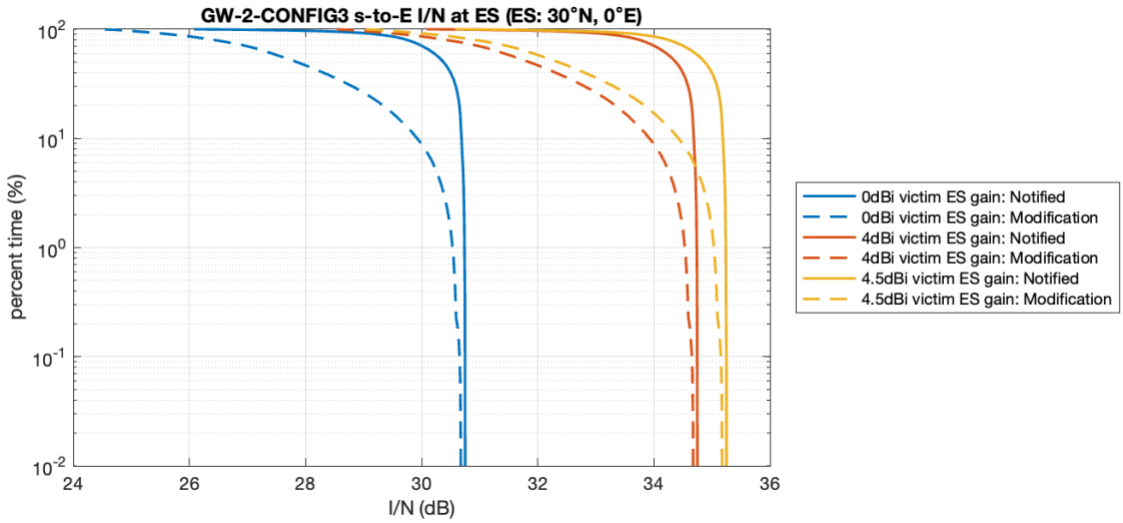

GW-2-CONFIG2 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

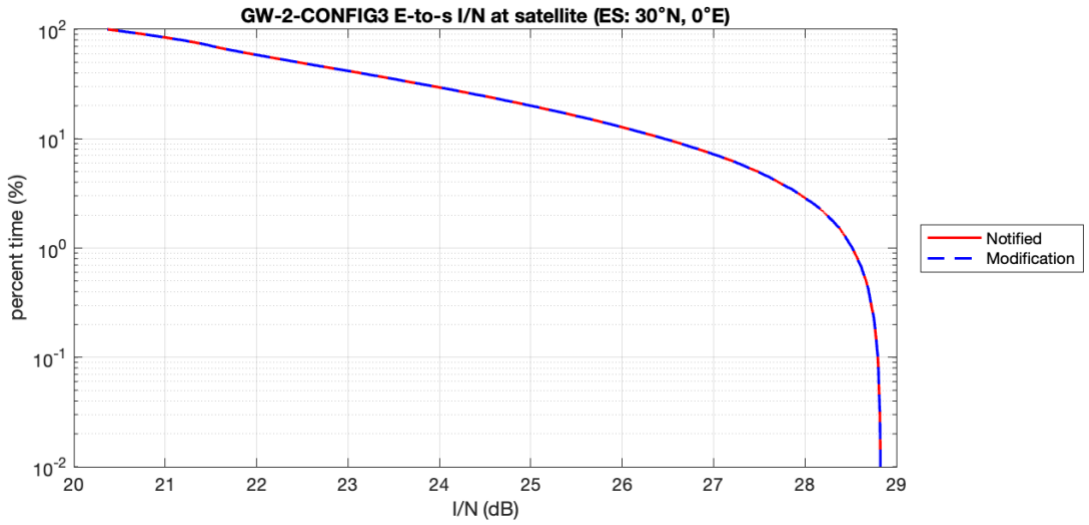

GW-2-CONFIG3 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

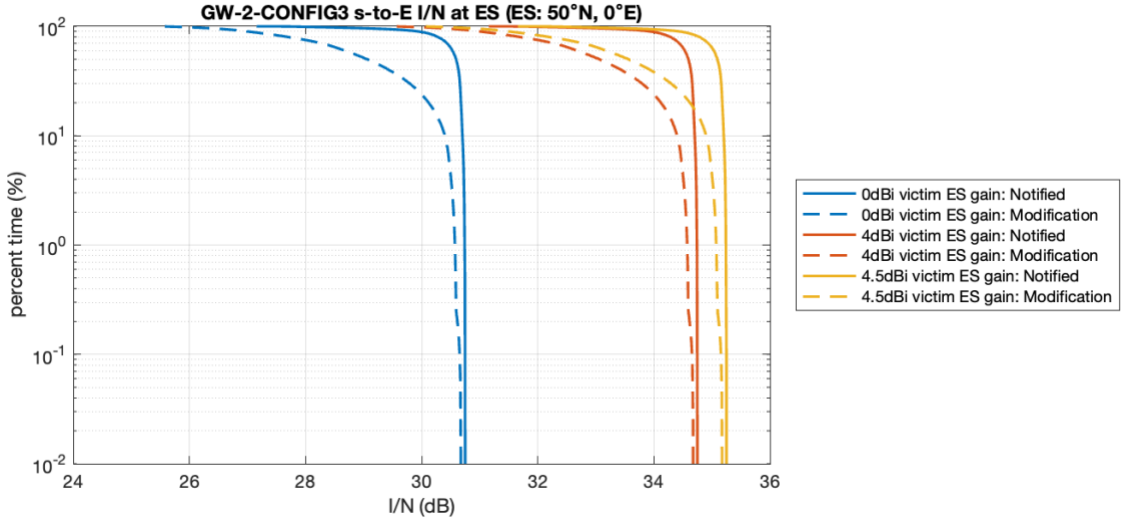

GW-2-CONFIG3 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

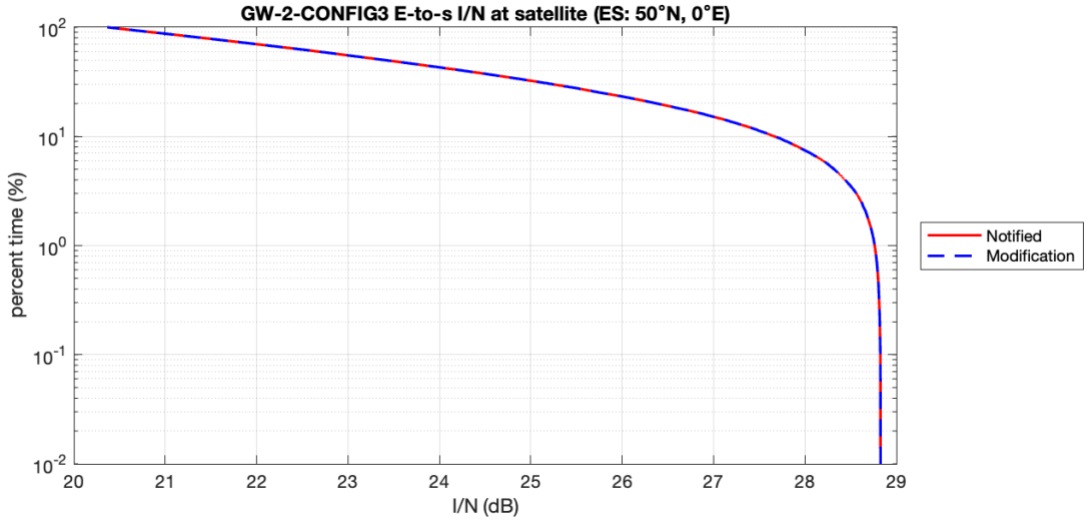

GW-2-CONFIG3 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

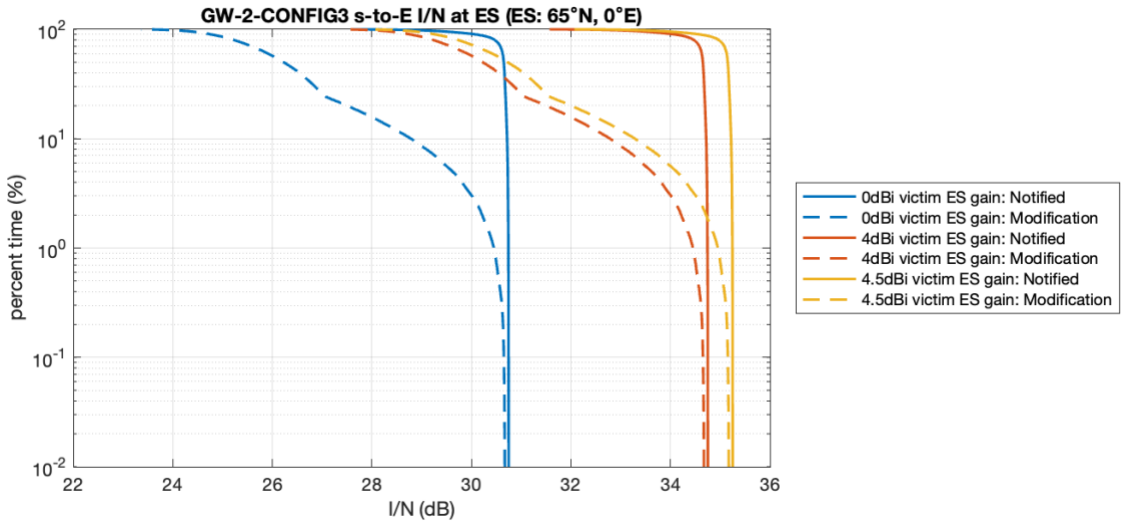

GW-2-CONFIG3 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

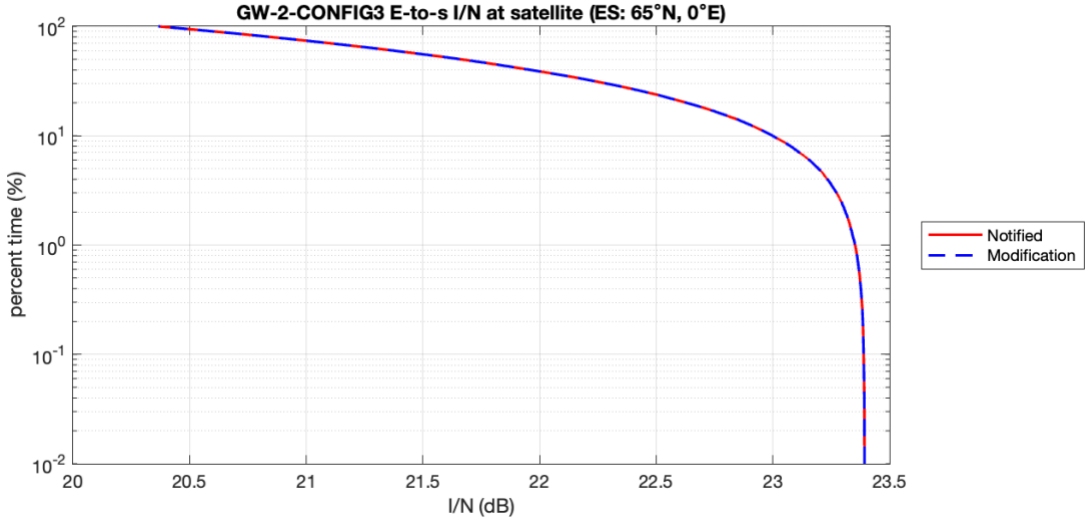

GW-2-CONFIG3 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

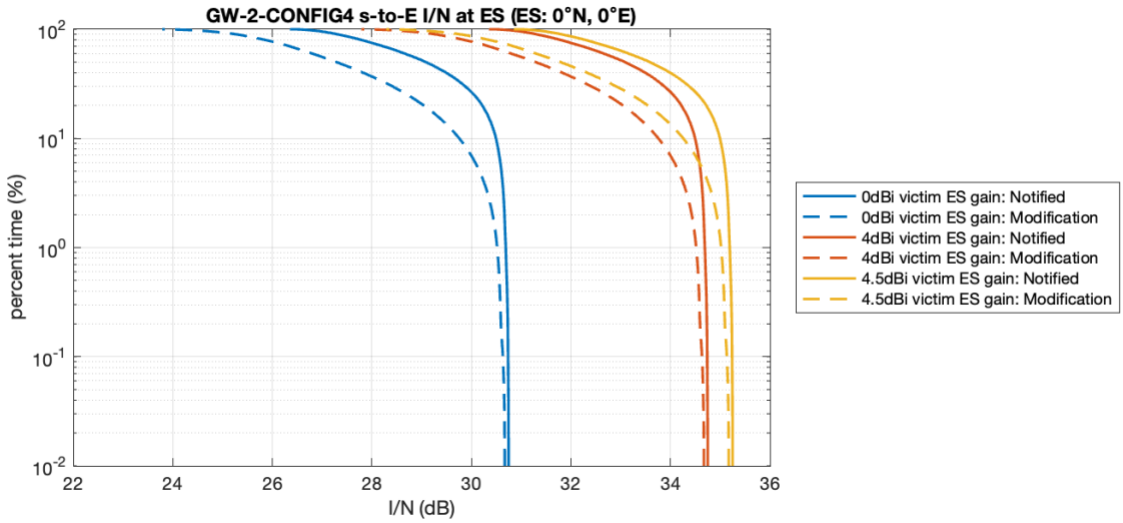

GW-2-CONFIG3 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

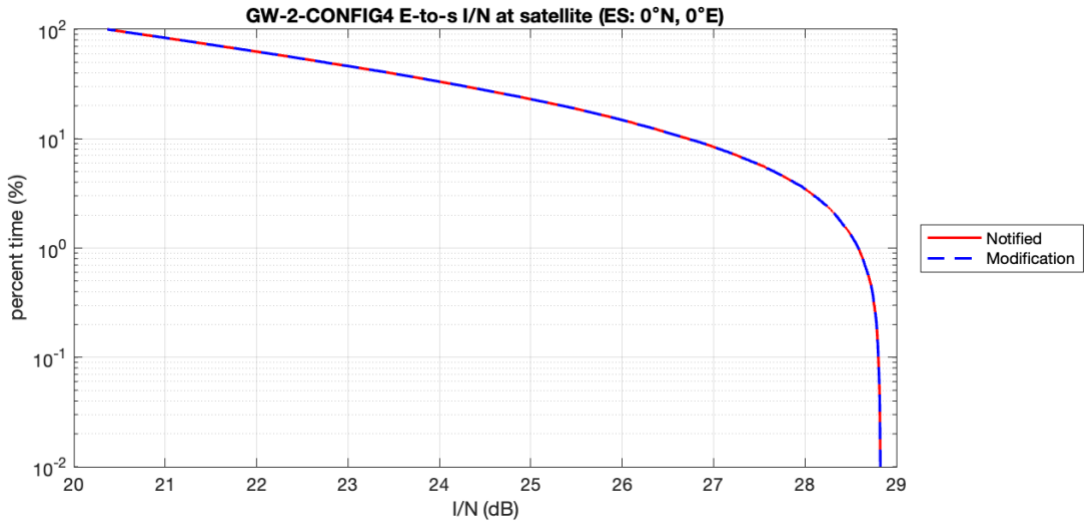

GW-2-CONFIG3 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

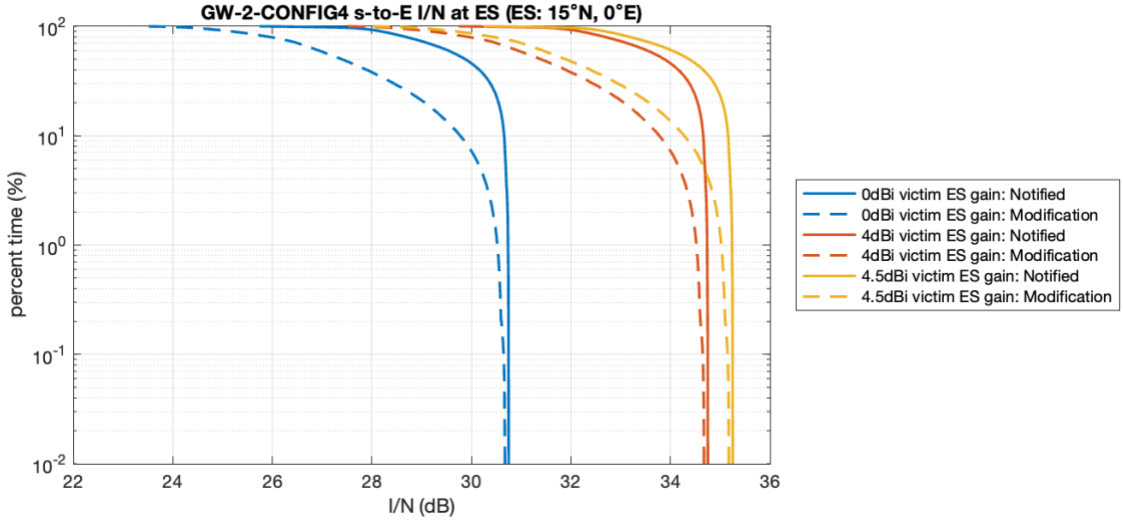

GW-2-CONFIG3 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

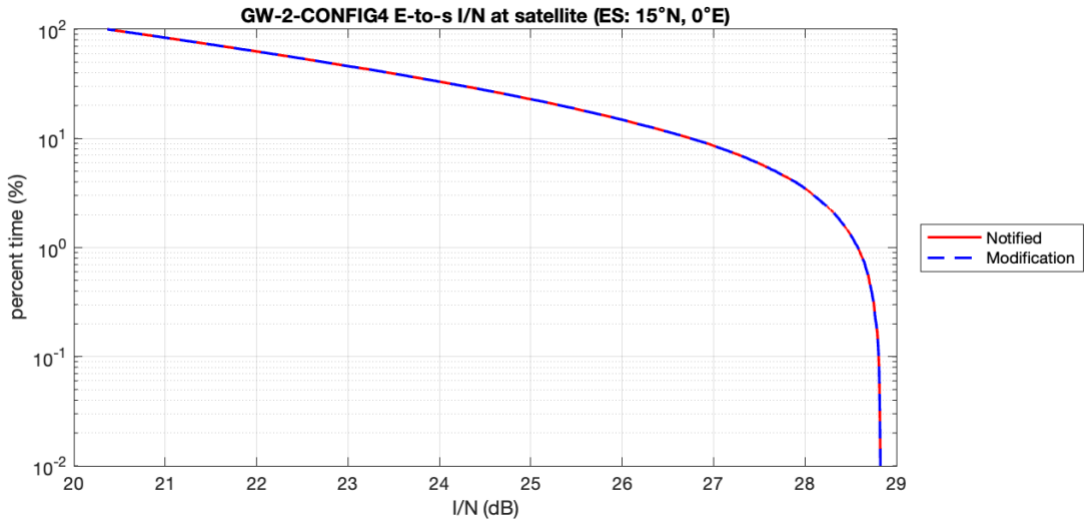

GW-2-CONFIG3 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

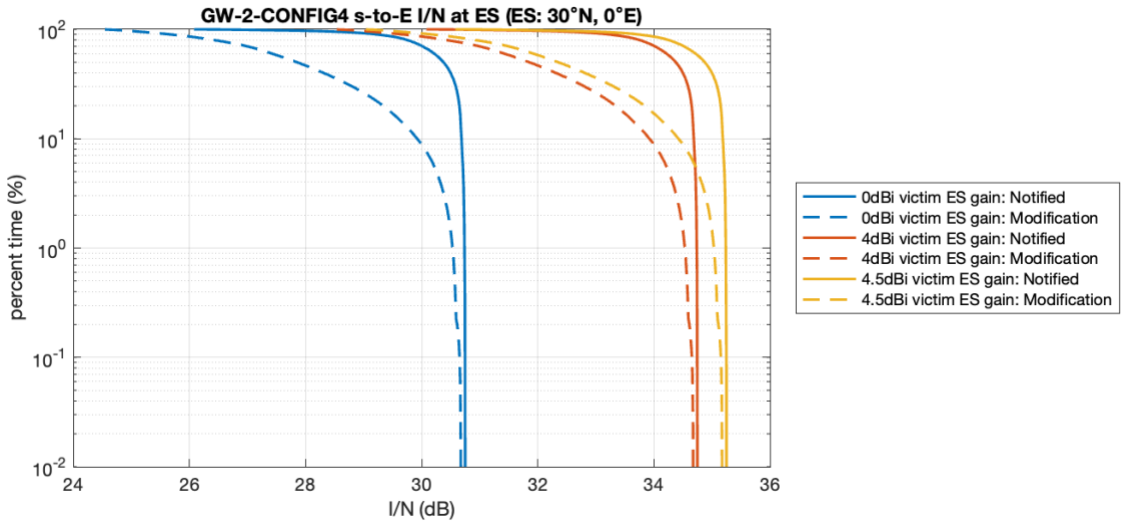

GW-2-CONFIG3 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

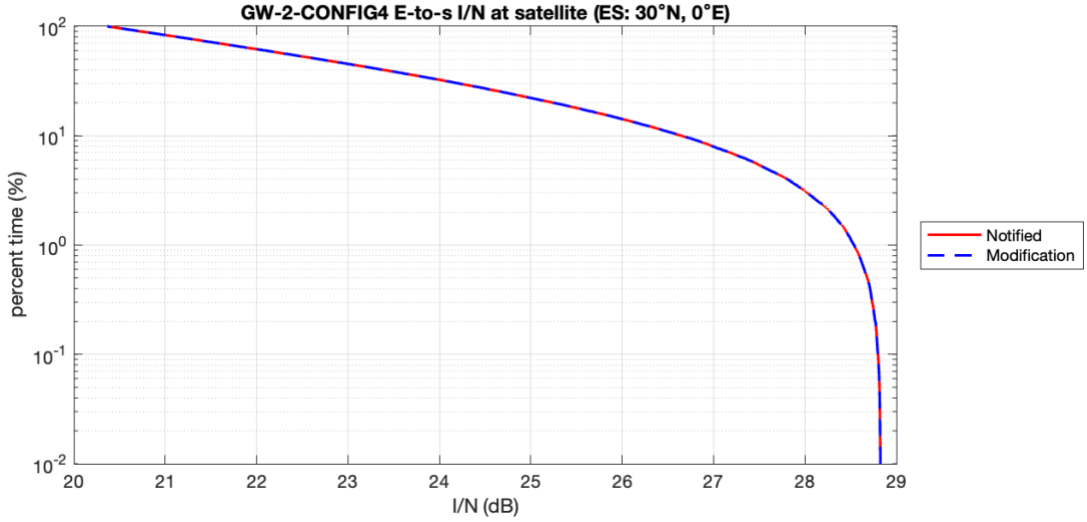

GW-2-CONFIG4 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

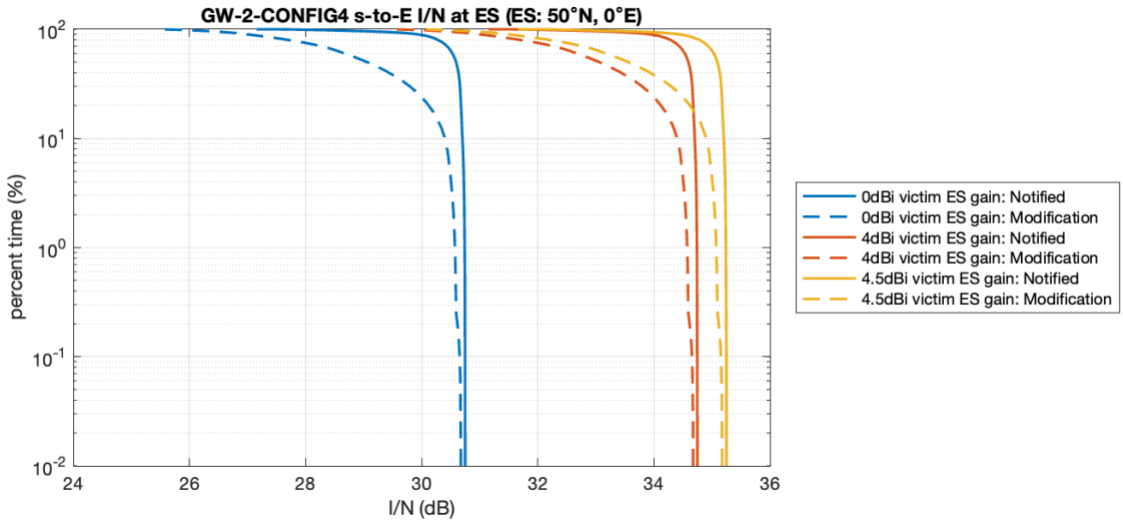

GW-2-CONFIG4 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

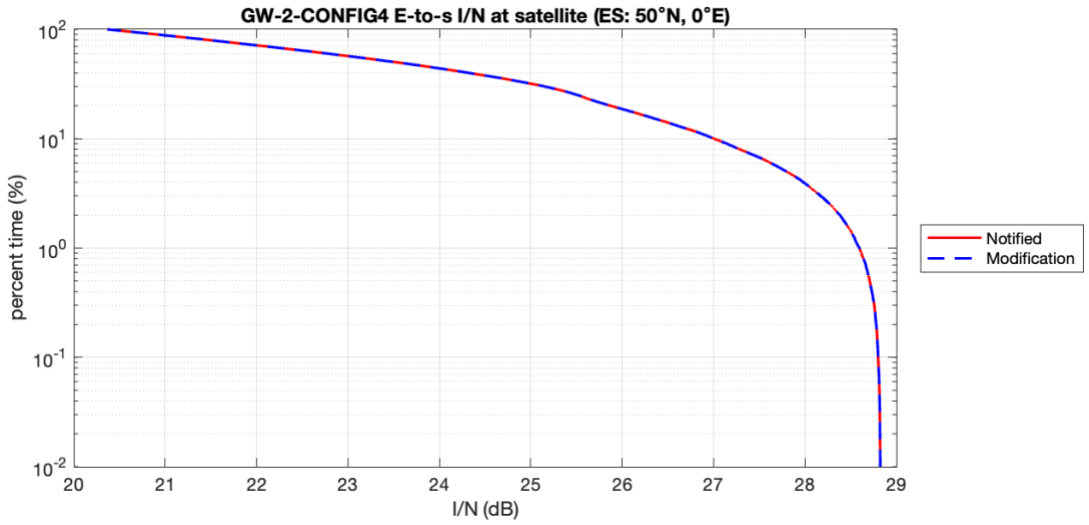

GW-2-CONFIG4 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

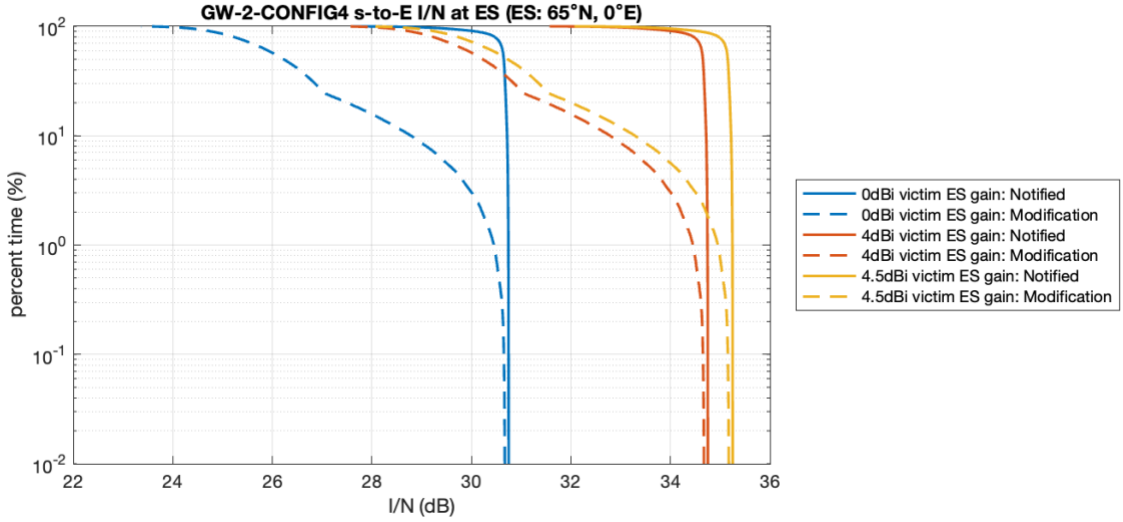

GW-2-CONFIG4 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

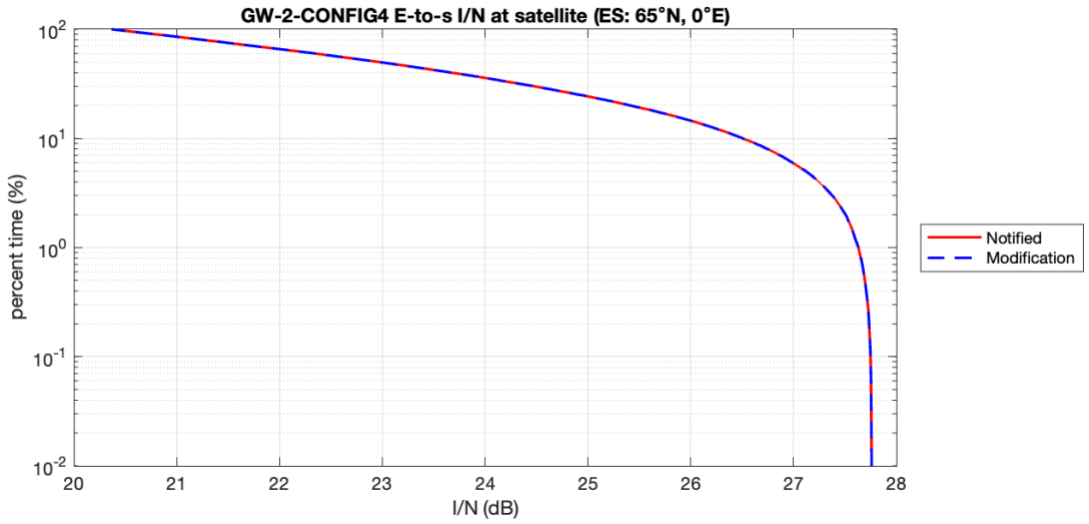

GW-2-CONFIG4 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

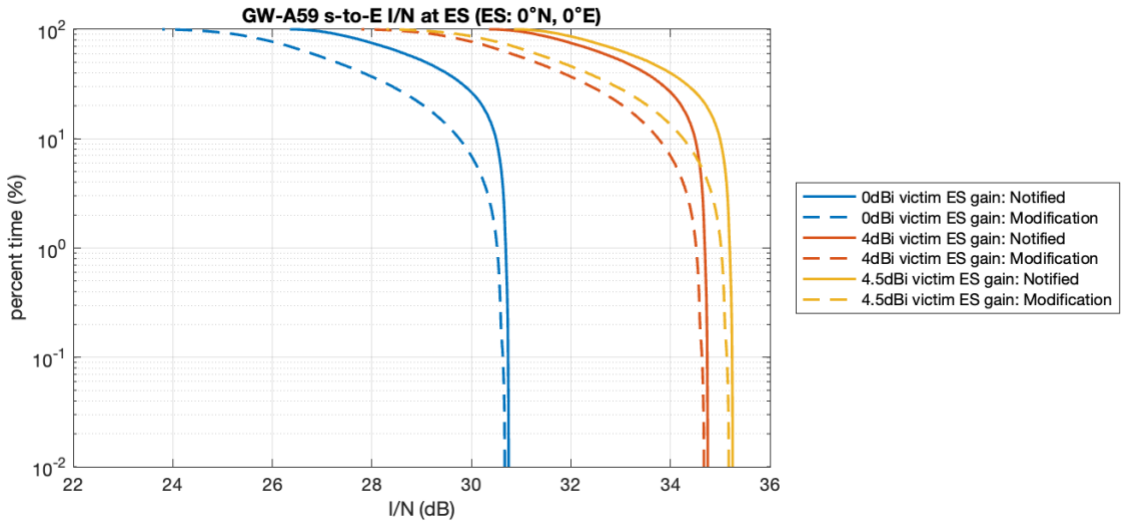

GW-2-CONFIG4 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

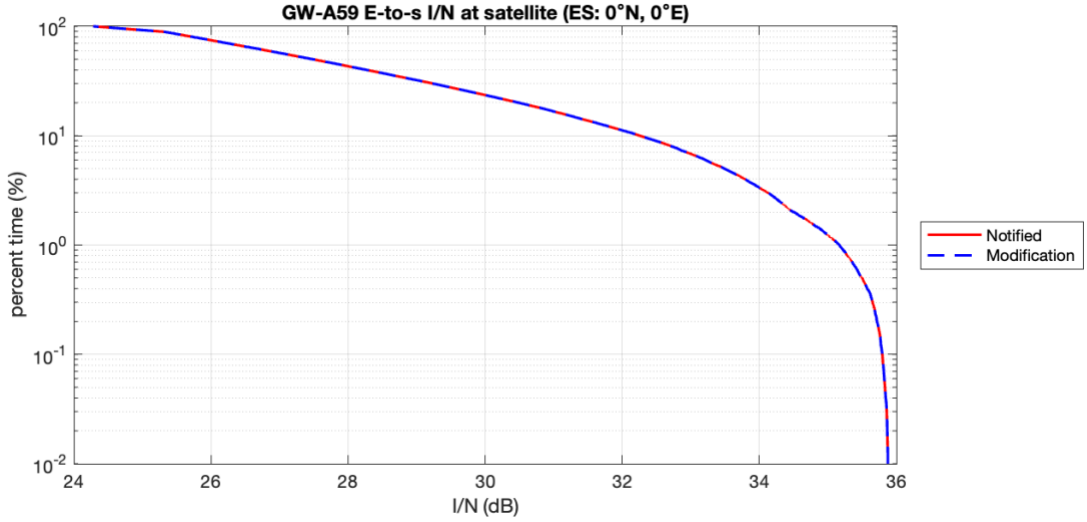

GW-2-CONFIG4 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

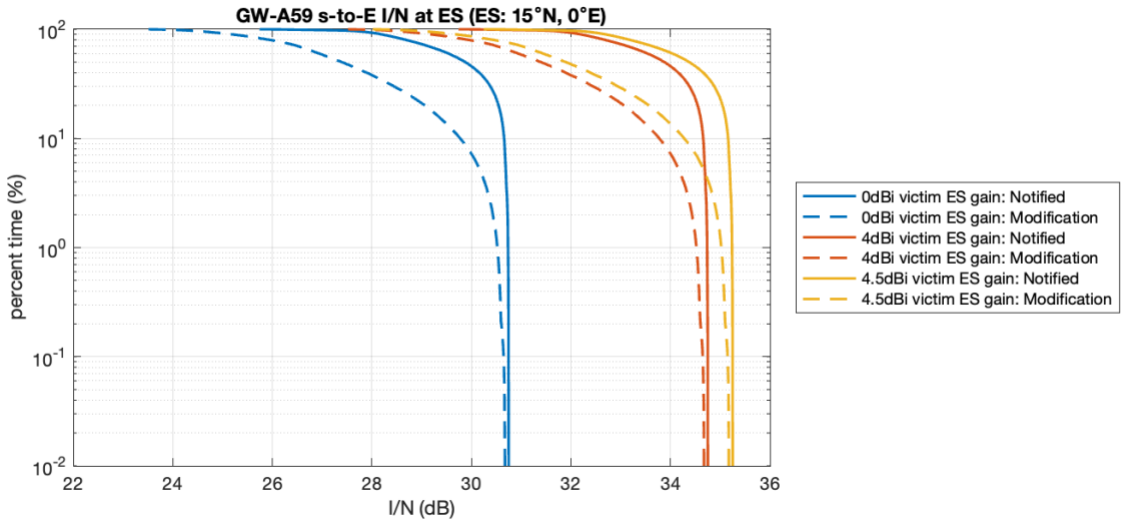

GW-2-CONFIG4 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

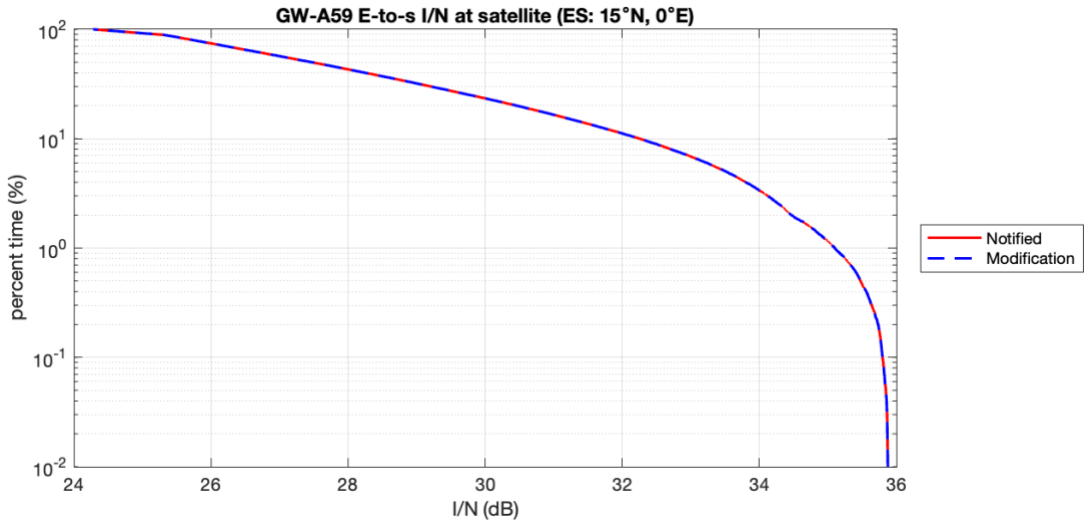

GW-2-CONFIG4 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

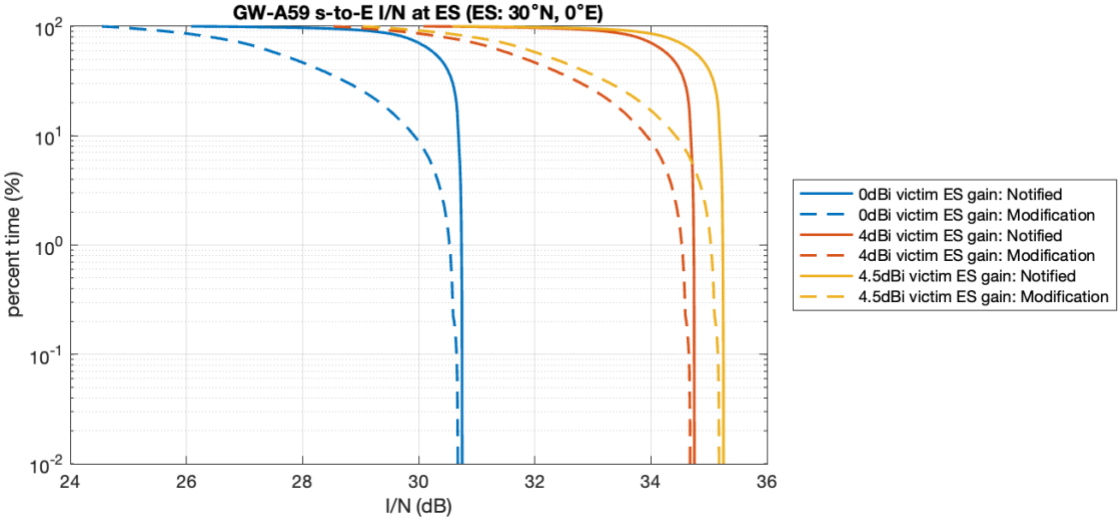

GW-2-CONFIG4 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

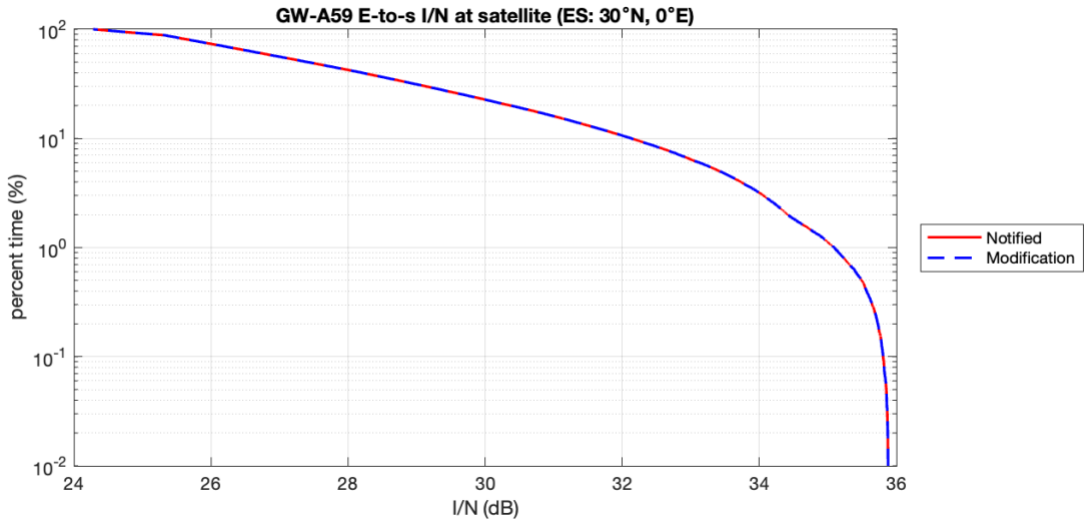

GW-A59 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

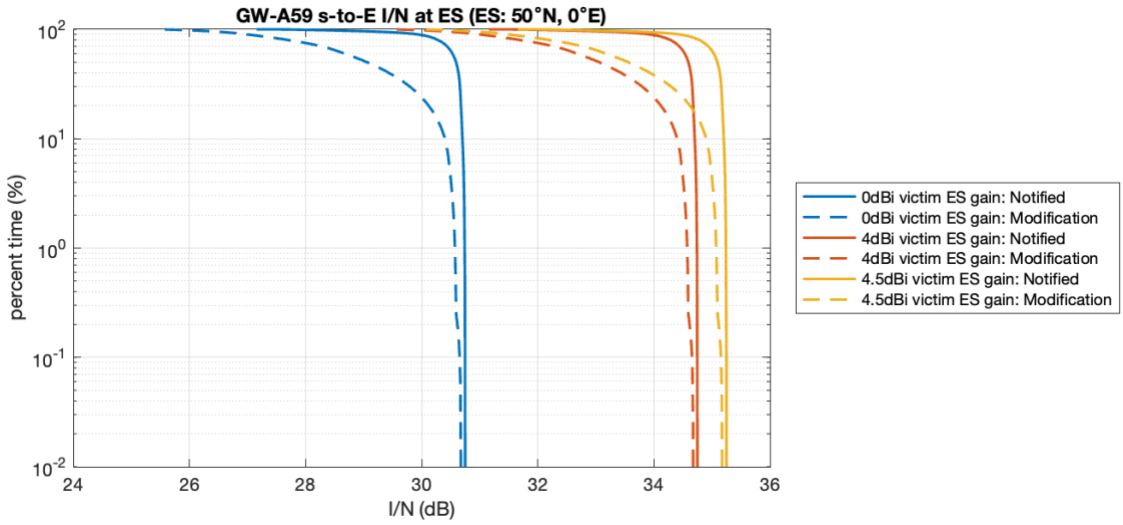

GW-A59 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

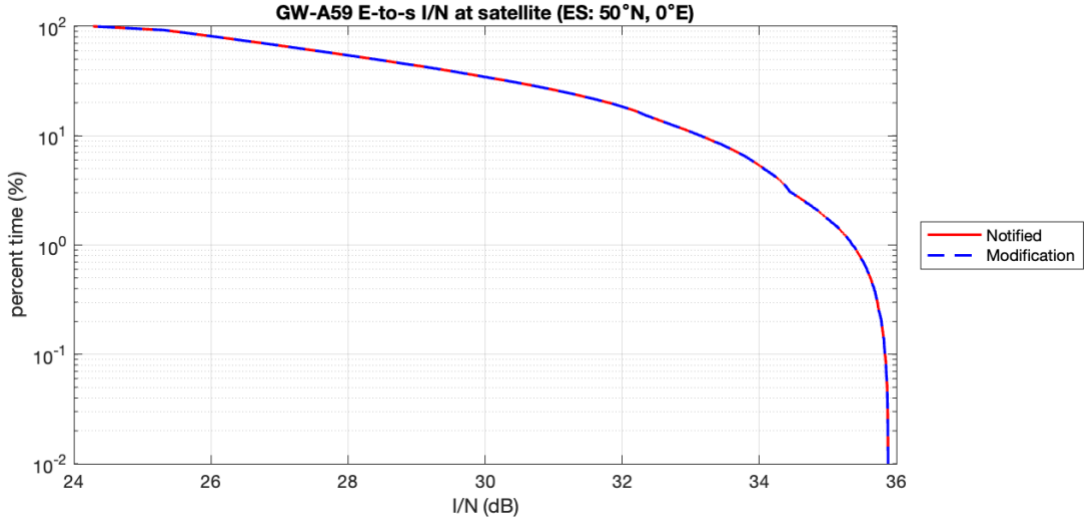

GW-A59 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

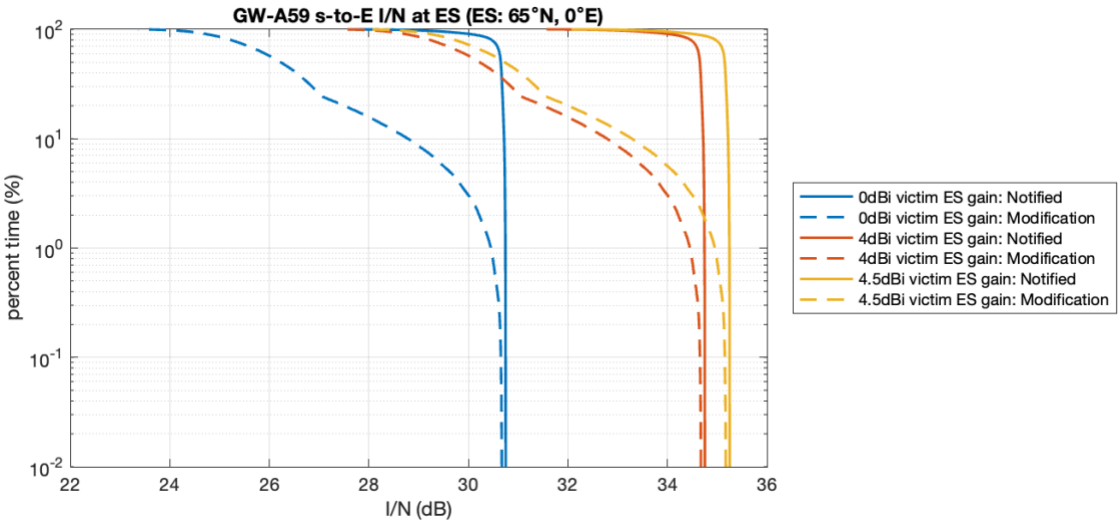

GW-A59 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

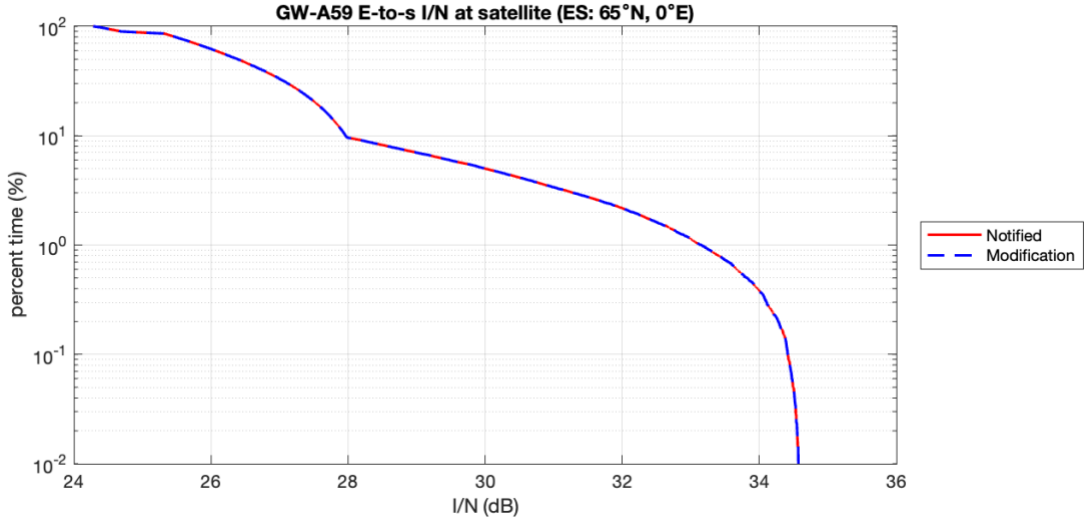

GW-A59 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

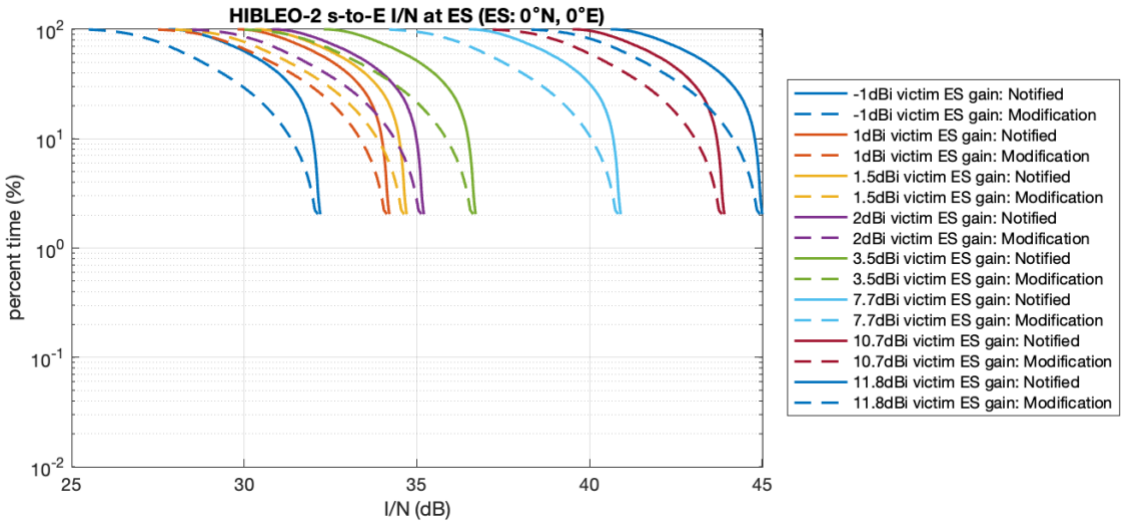

GW-A59 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

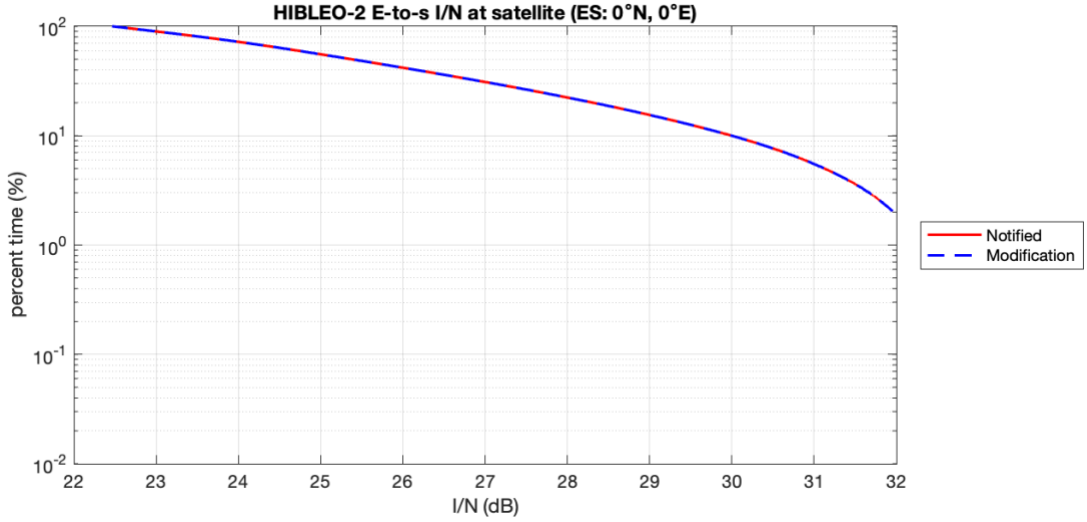

GW-A59 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

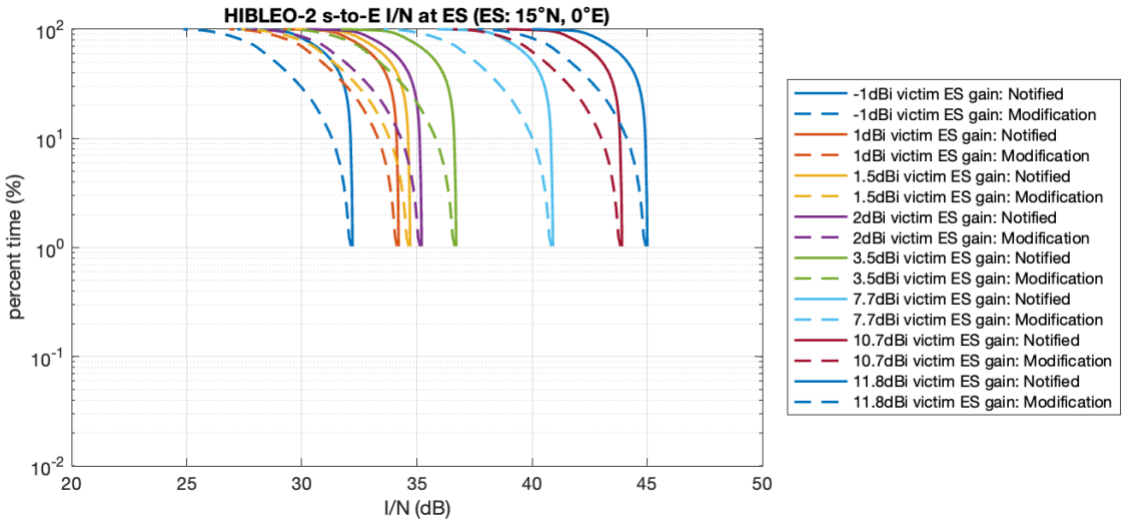

GW-A59 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

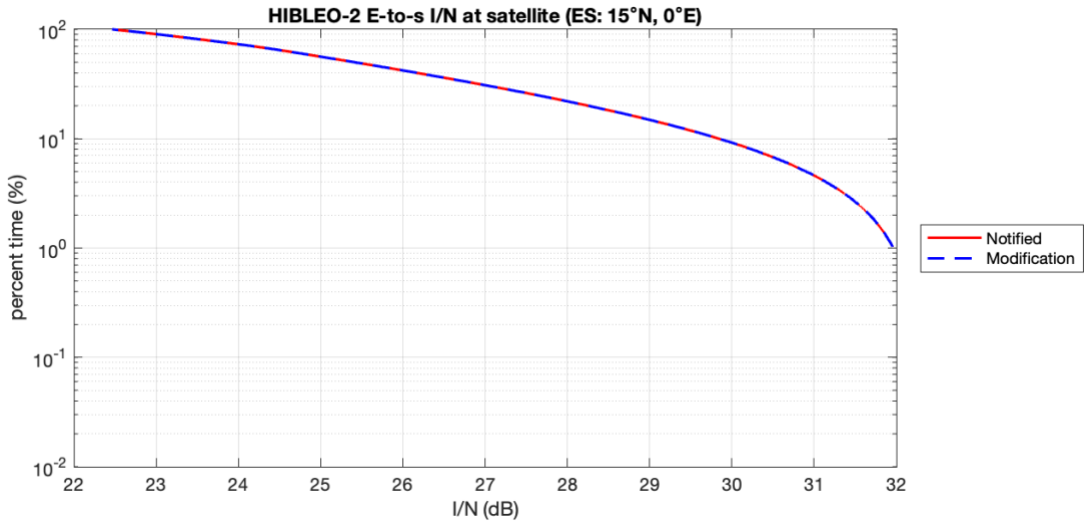

GW-A59 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification
4.5dBi victim ES gain: Notified
4.5dBi victim ES gain: Modification

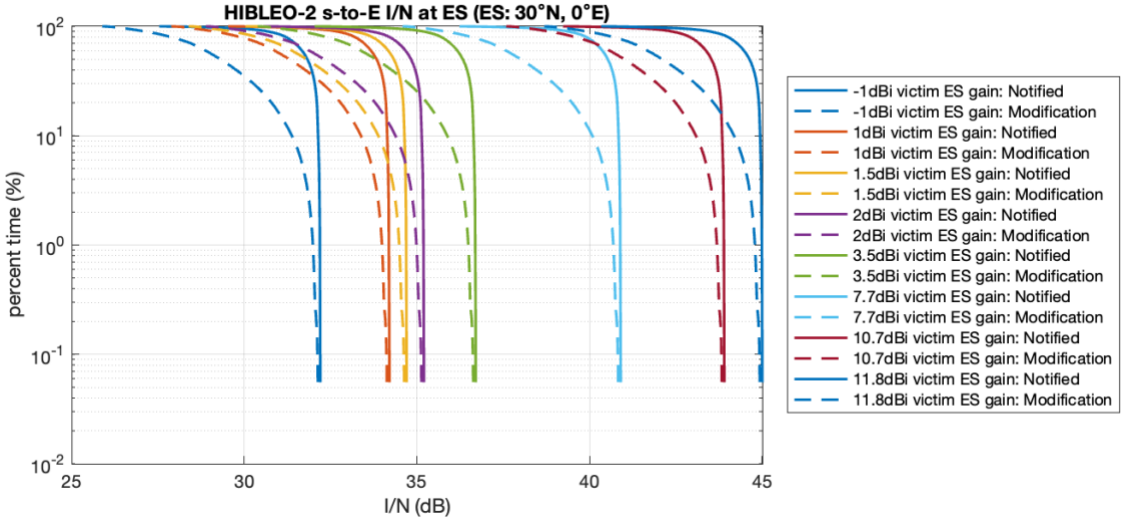

GW-A59 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

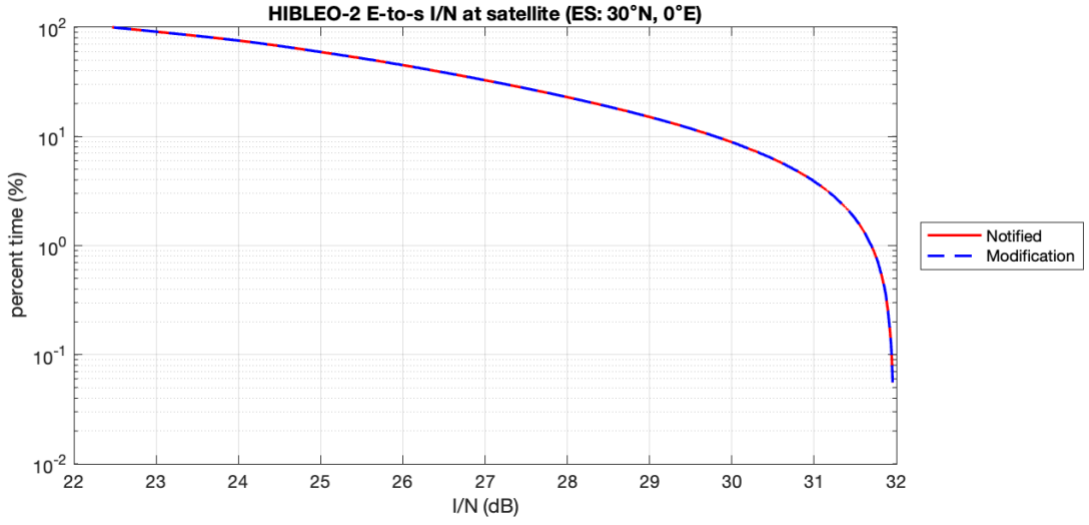

HIBLEO-2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
-1dBi victim ES gain: Notified
-1dBi victim ES gain: Modification
1dBi victim ES gain: Notified
1dBi victim ES gain: Modification
1.5dBi victim ES gain: Notified
1.5dBi victim ES gain: Modification
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
3.5dBi victim ES gain: Notified
3.5dBi victim ES gain: Modification
7.7dBi victim ES gain: Notified
7.7dBi victim ES gain: Modification
10.7dBi victim ES gain: Notified
10.7dBi victim ES gain: Modification
11.8dBi victim ES gain: Notified
11.8dBi victim ES gain: Modification

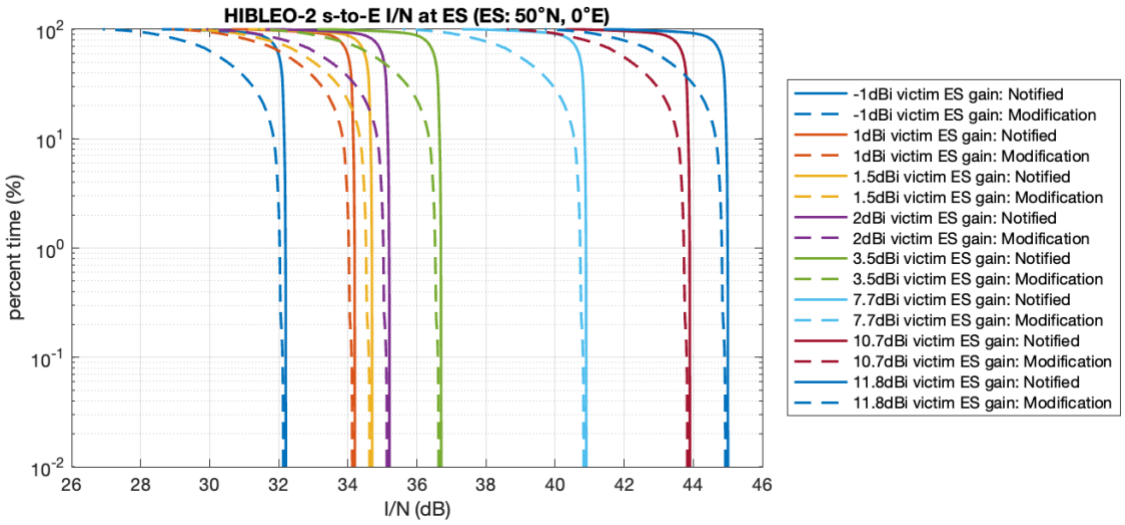

HIBLEO-2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

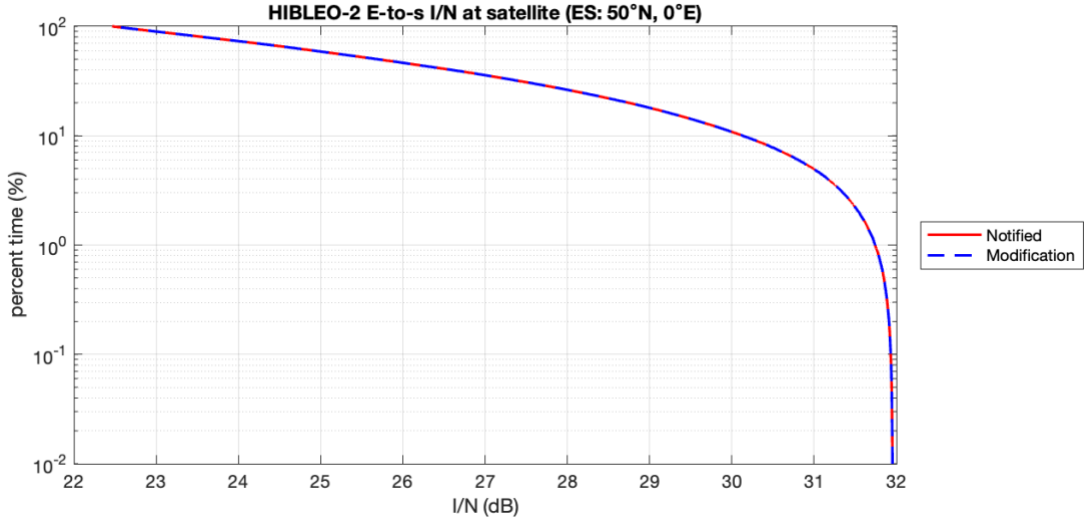

HIBLEO-2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
-1dBi victim ES gain: Notified
-1dBi victim ES gain: Modification
1dBi victim ES gain: Notified
1dBi victim ES gain: Modification
1.5dBi victim ES gain: Notified
1.5dBi victim ES gain: Modification
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
3.5dBi victim ES gain: Notified
3.5dBi victim ES gain: Modification
7.7dBi victim ES gain: Notified
7.7dBi victim ES gain: Modification
10.7dBi victim ES gain: Notified
10.7dBi victim ES gain: Modification
11.8dBi victim ES gain: Notified
11.8dBi victim ES gain: Modification

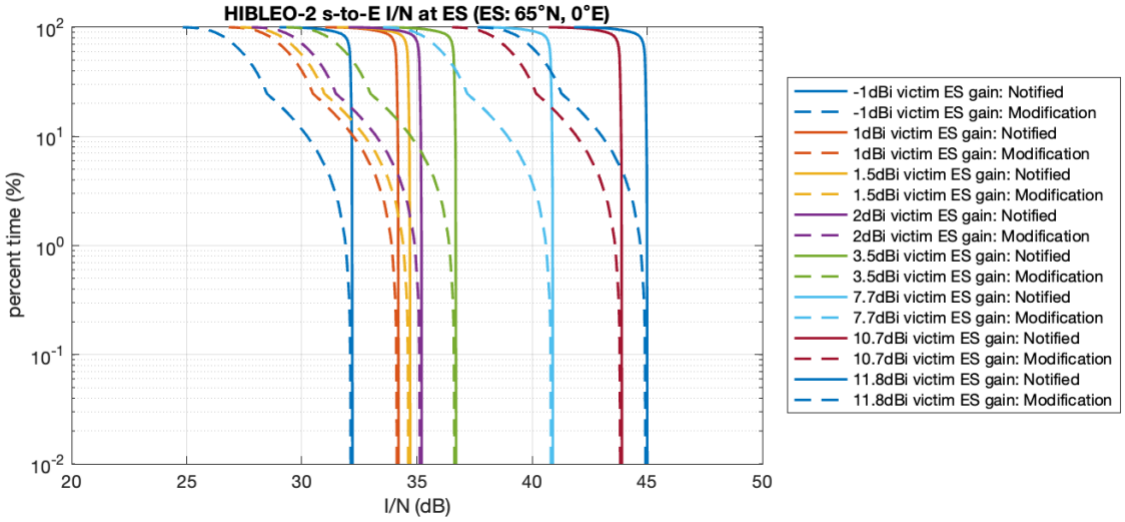

HIBLEO-2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

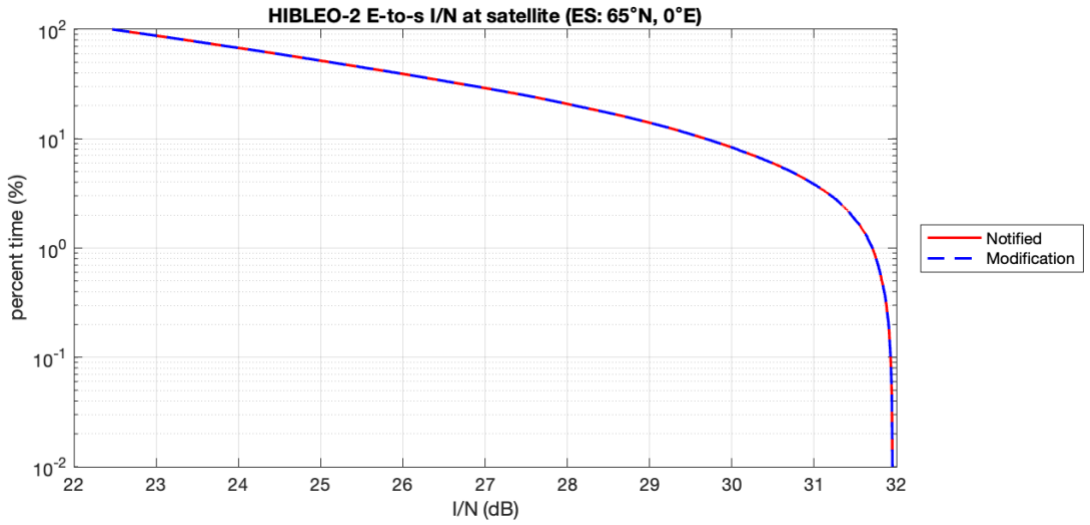

HIBLEO-2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
-1dBi victim ES gain: Notified
-1dBi victim ES gain: Modification
1dBi victim ES gain: Notified
1dBi victim ES gain: Modification
1.5dBi victim ES gain: Notified
1.5dBi victim ES gain: Modification
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
3.5dBi victim ES gain: Notified
3.5dBi victim ES gain: Modification
7.7dBi victim ES gain: Notified
7.7dBi victim ES gain: Modification
10.7dBi victim ES gain: Notified
10.7dBi victim ES gain: Modification
11.8dBi victim ES gain: Notified
11.8dBi victim ES gain: Modification

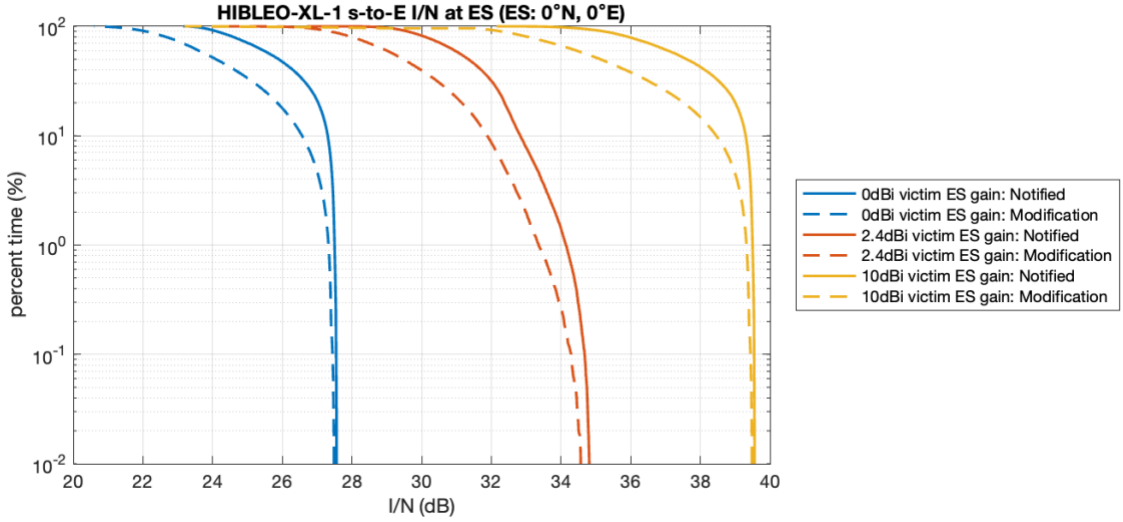

HIBLEO-2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

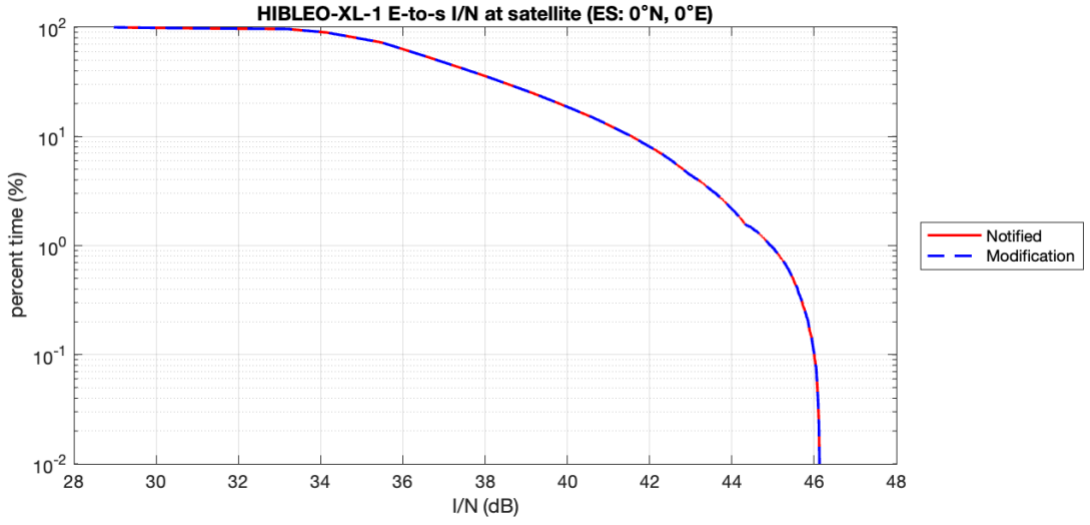

HIBLEO-2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
-1dBi victim ES gain: Notified
-1dBi victim ES gain: Modification
1dBi victim ES gain: Notified
1dBi victim ES gain: Modification
1.5dBi victim ES gain: Notified
1.5dBi victim ES gain: Modification
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
3.5dBi victim ES gain: Notified
3.5dBi victim ES gain: Modification
7.7dBi victim ES gain: Notified
7.7dBi victim ES gain: Modification
10.7dBi victim ES gain: Notified
10.7dBi victim ES gain: Modification
11.8dBi victim ES gain: Notified
11.8dBi victim ES gain: Modification

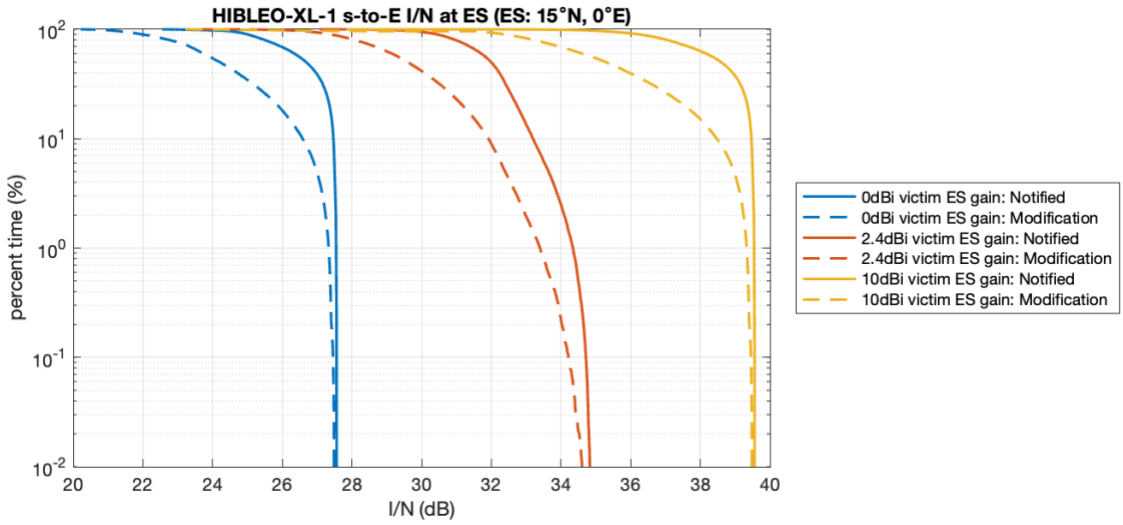

HIBLEO-2 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

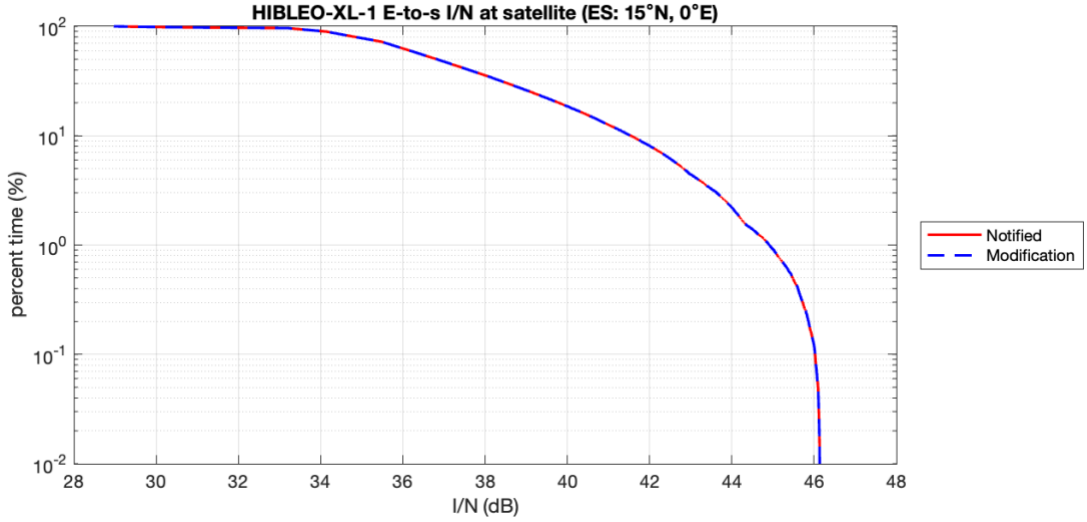

HIBLEO-2 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
-1dBi victim ES gain: Notified
-1dBi victim ES gain: Modification
1dBi victim ES gain: Notified
1dBi victim ES gain: Modification
1.5dBi victim ES gain: Notified
1.5dBi victim ES gain: Modification
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
3.5dBi victim ES gain: Notified
3.5dBi victim ES gain: Modification
7.7dBi victim ES gain: Notified
7.7dBi victim ES gain: Modification
10.7dBi victim ES gain: Notified
10.7dBi victim ES gain: Modification
11.8dBi victim ES gain: Notified
11.8dBi victim ES gain: Modification

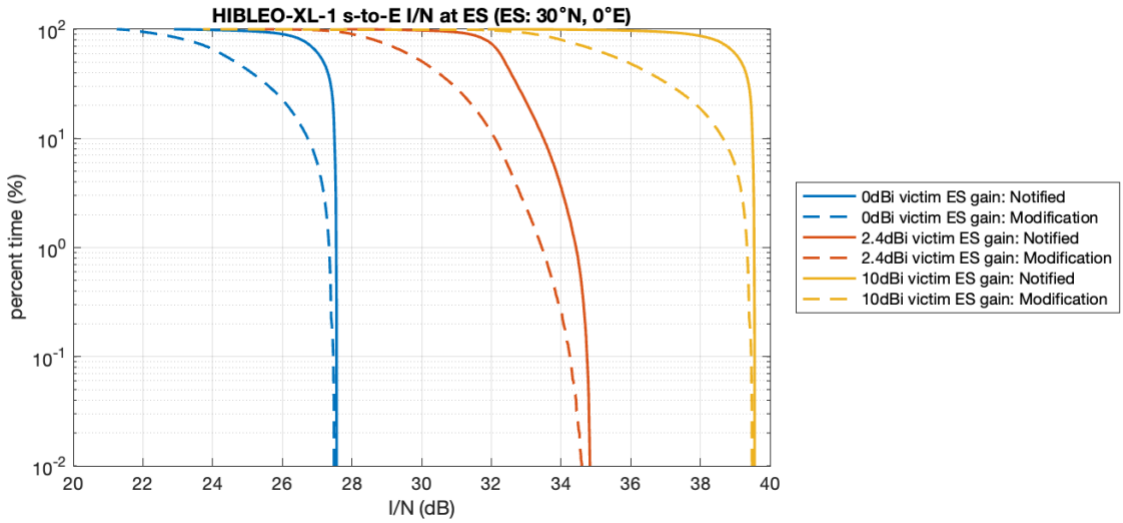

HIBLEO-2 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

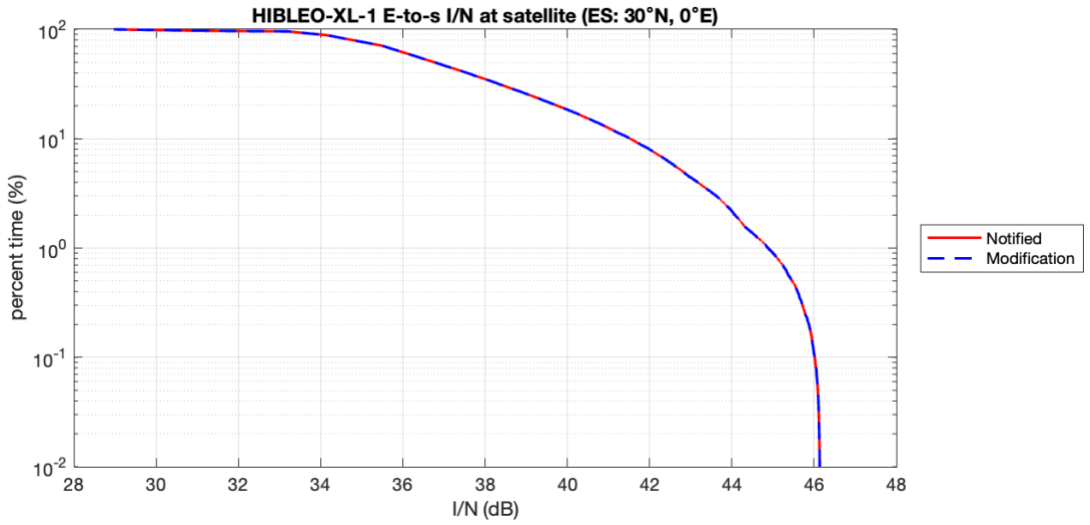

HIBLEO-XL-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

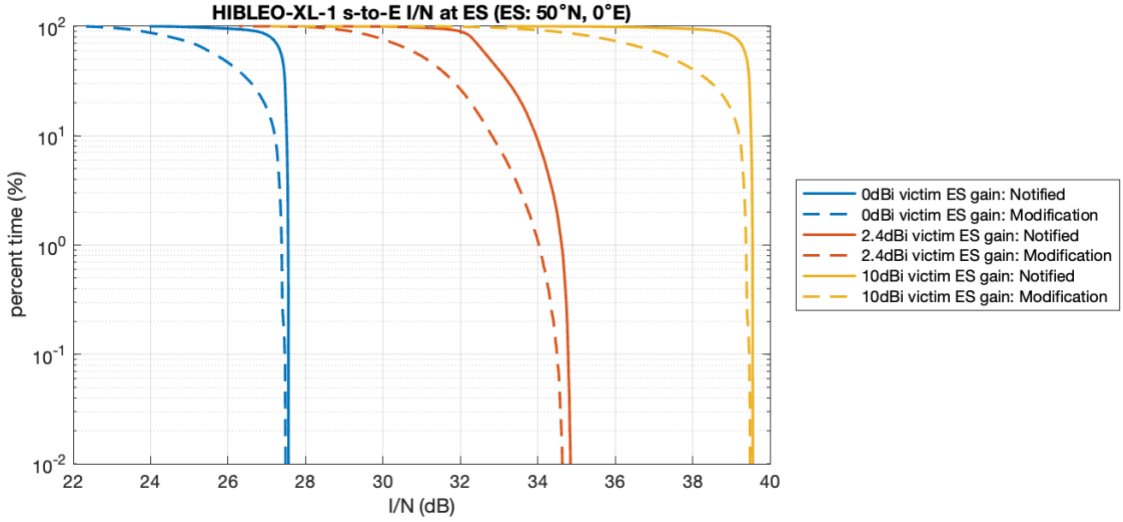

HIBLEO-XL-1 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

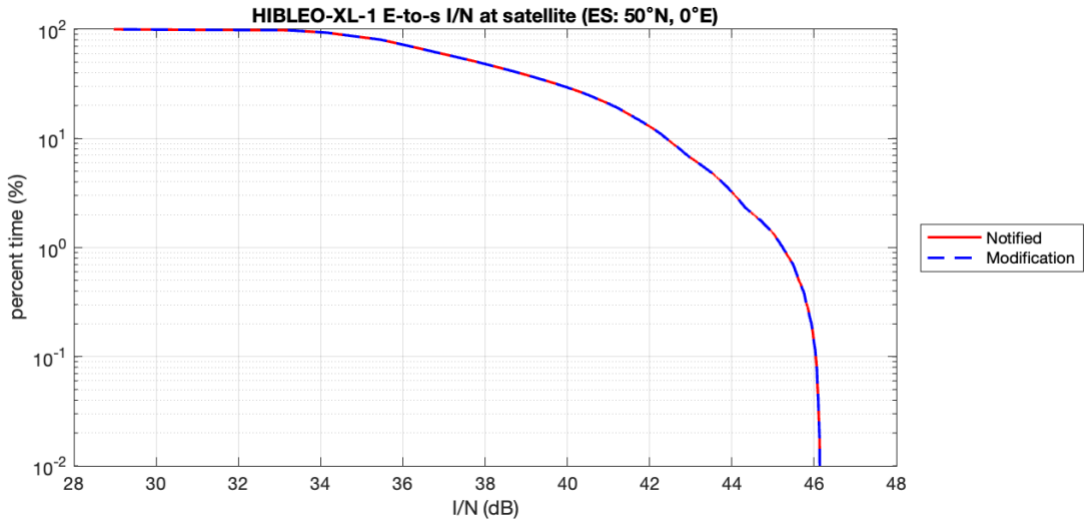

HIBLEO-XL-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

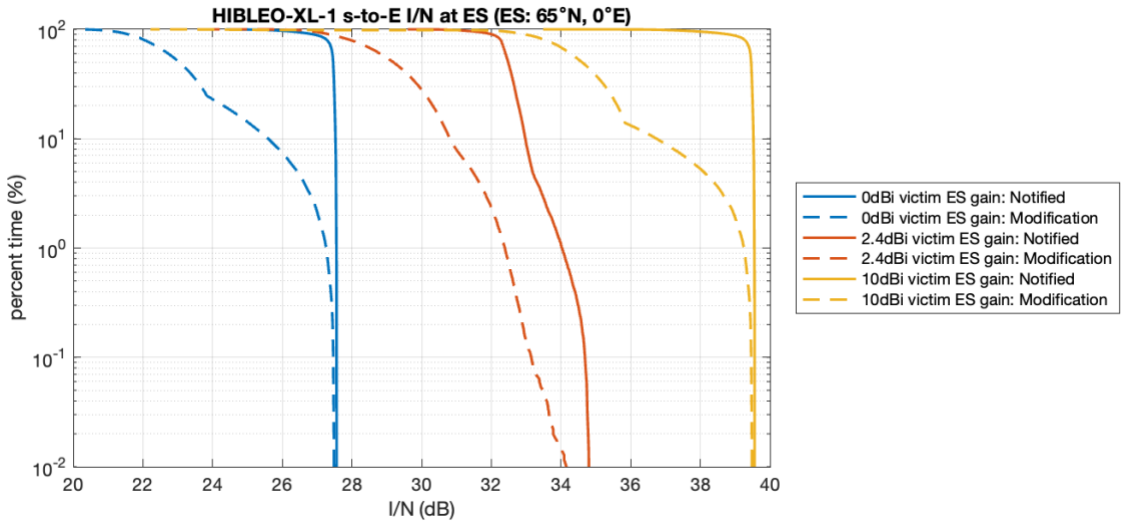

HIBLEO-XL-1 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

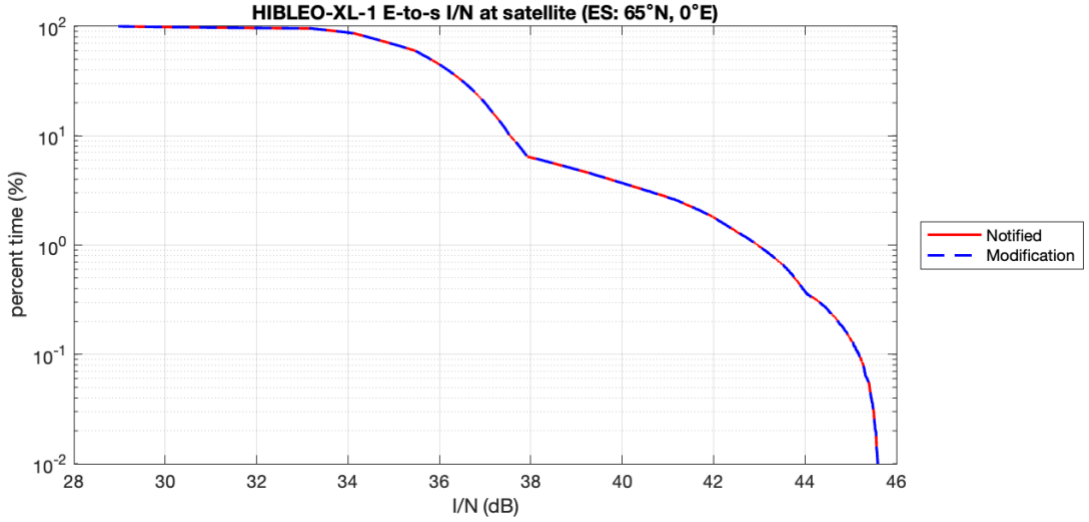

HIBLEO-XL-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

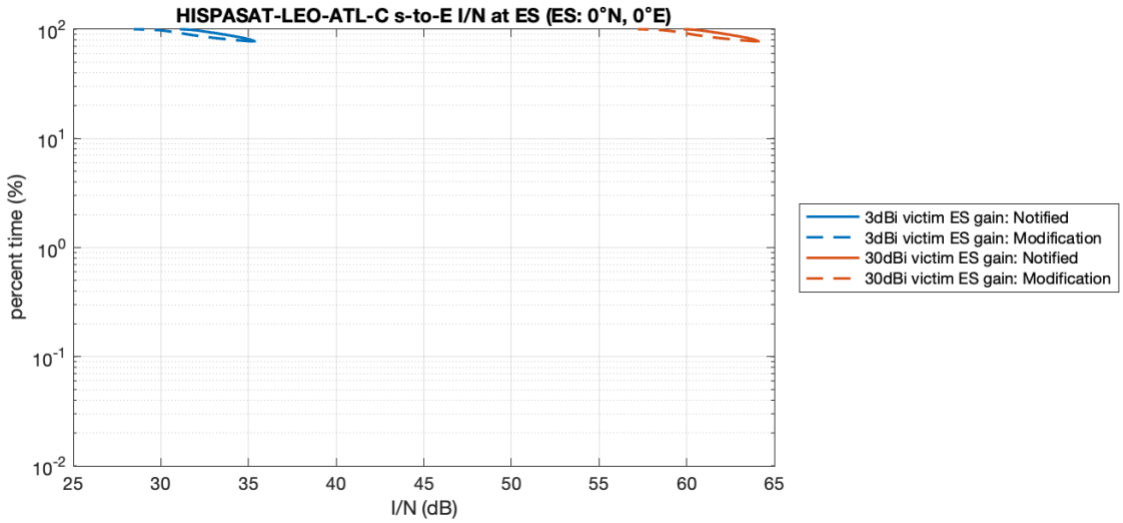

HIBLEO-XL-1 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

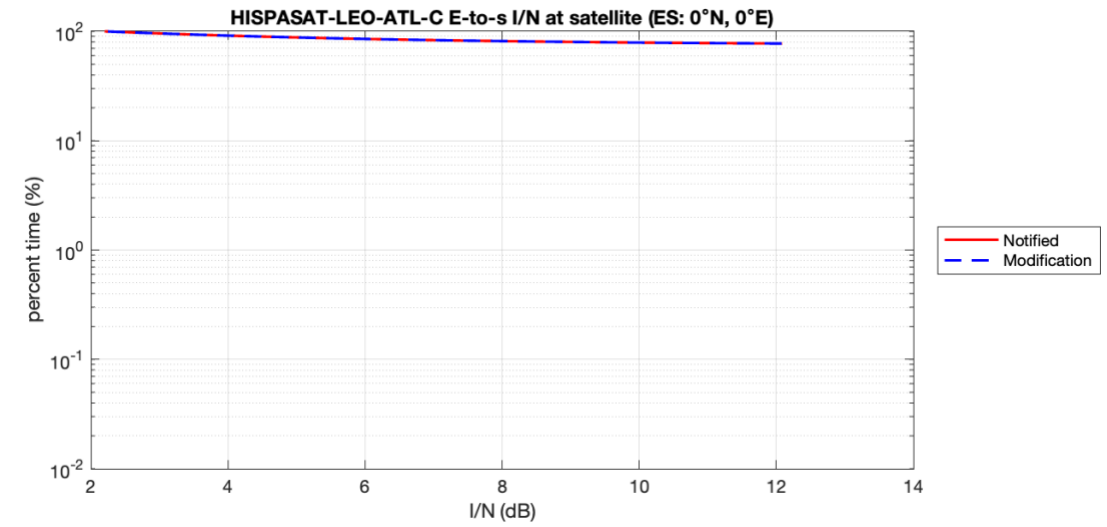

HIBLEO-XL-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

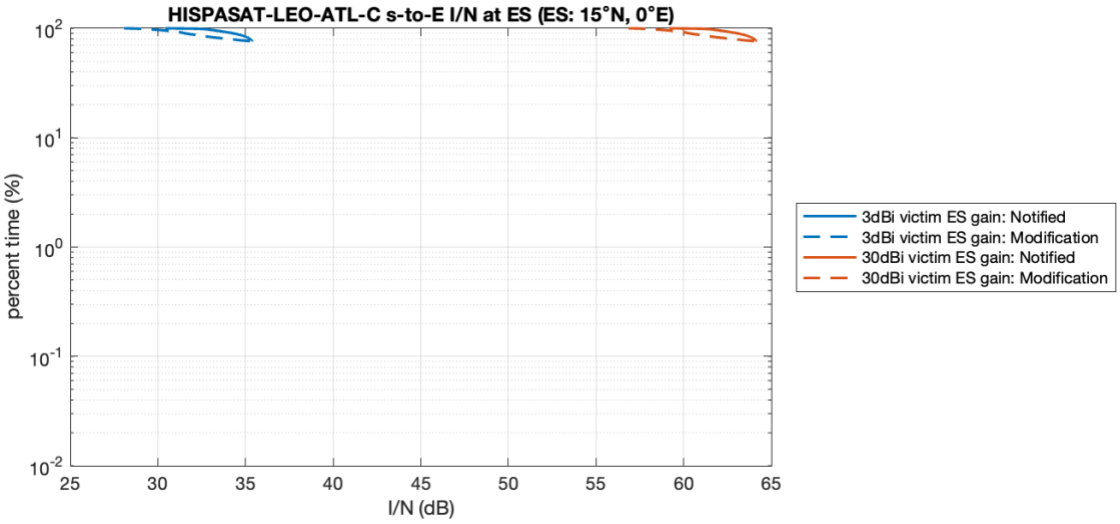

HIBLEO-XL-1 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

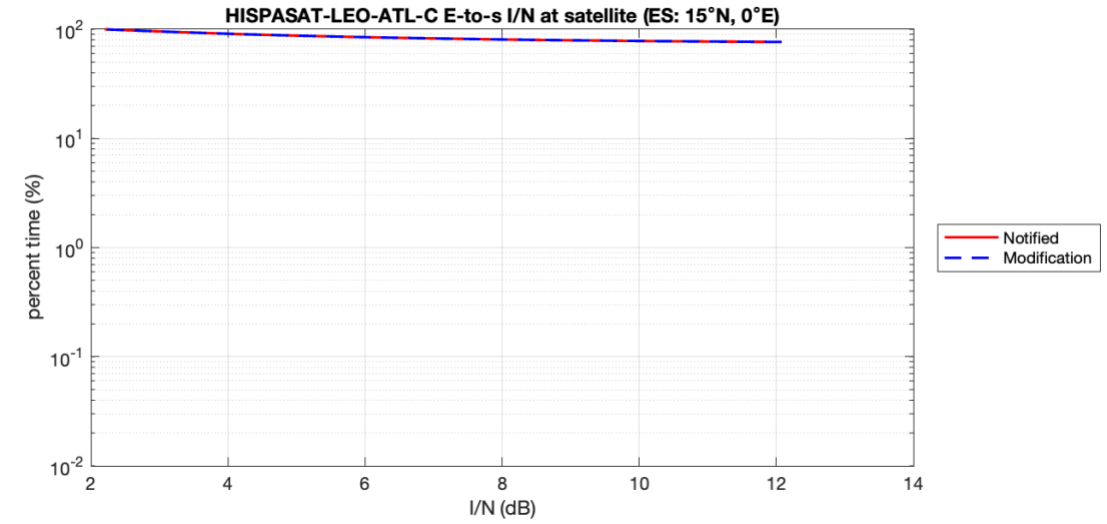

HIBLEO-XL-1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification
10dBi victim ES gain: Notified
10dBi victim ES gain: Modification

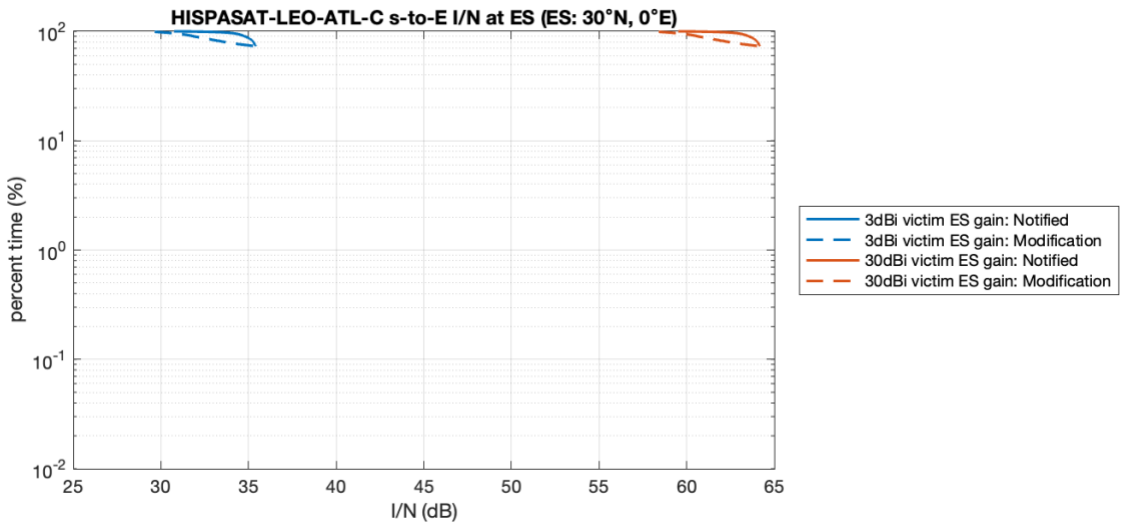

HIBLEO-XL-1 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

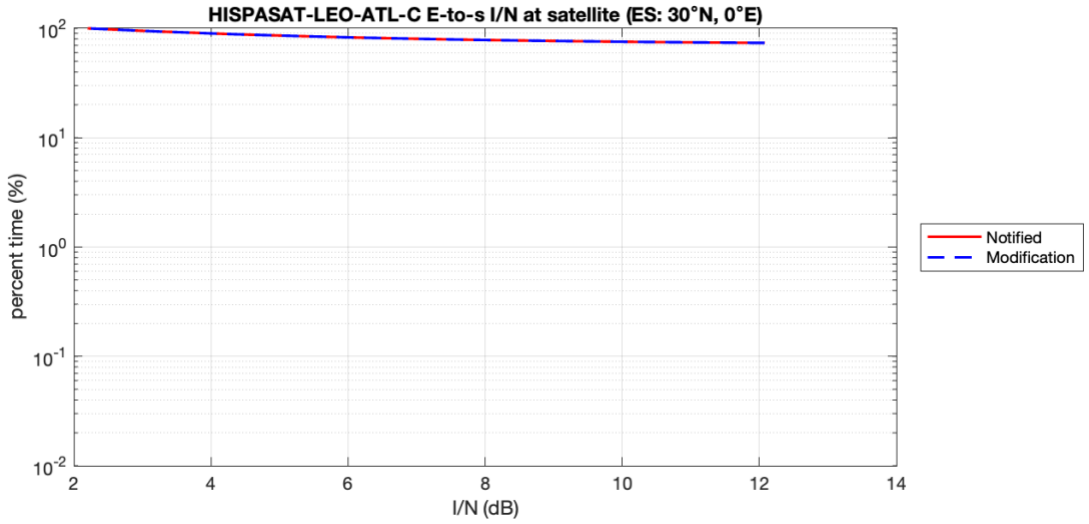

HISPASAT-LEO-ATL-C s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

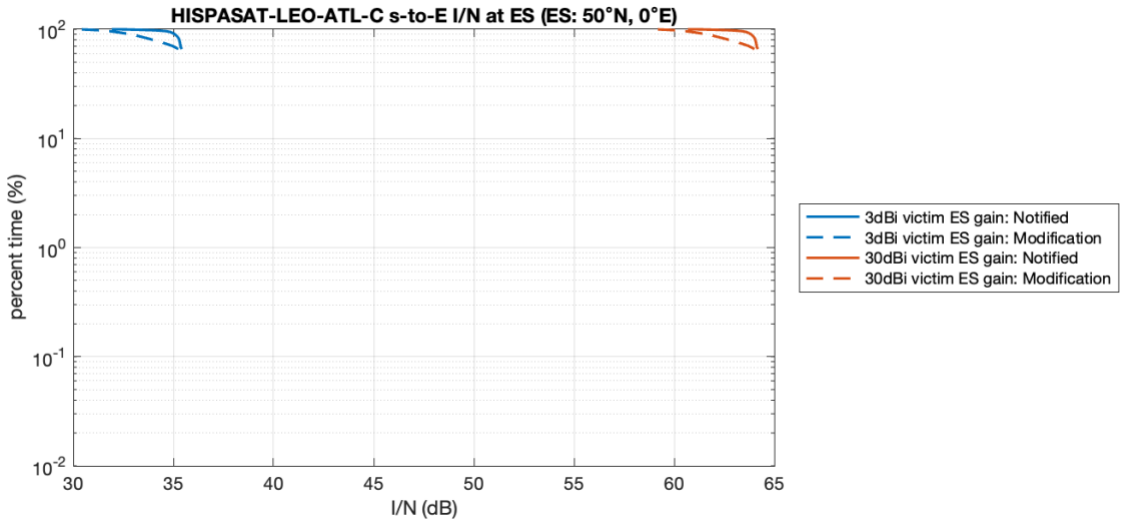

HISPASAT-LEO-ATL-C E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

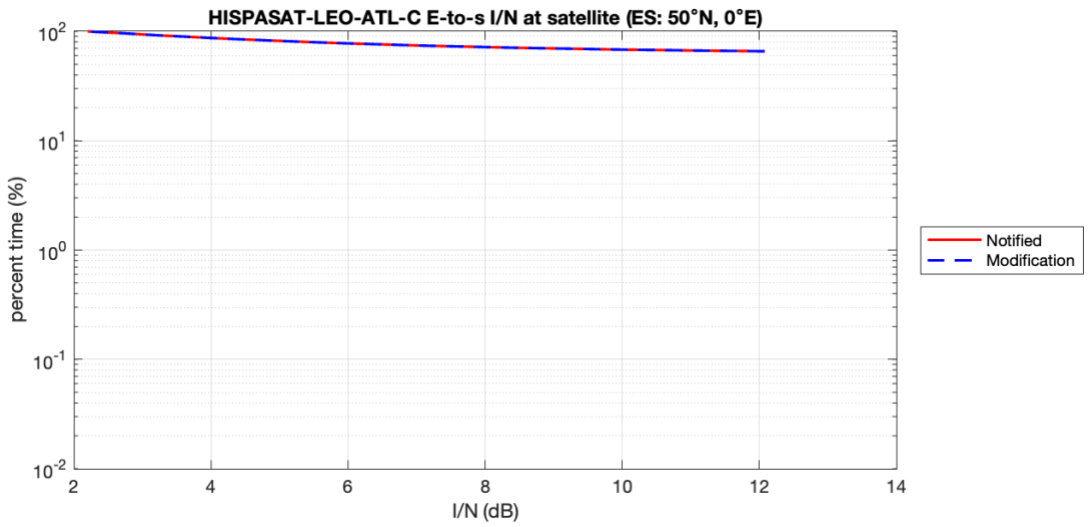

HISPASAT-LEO-ATL-C s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

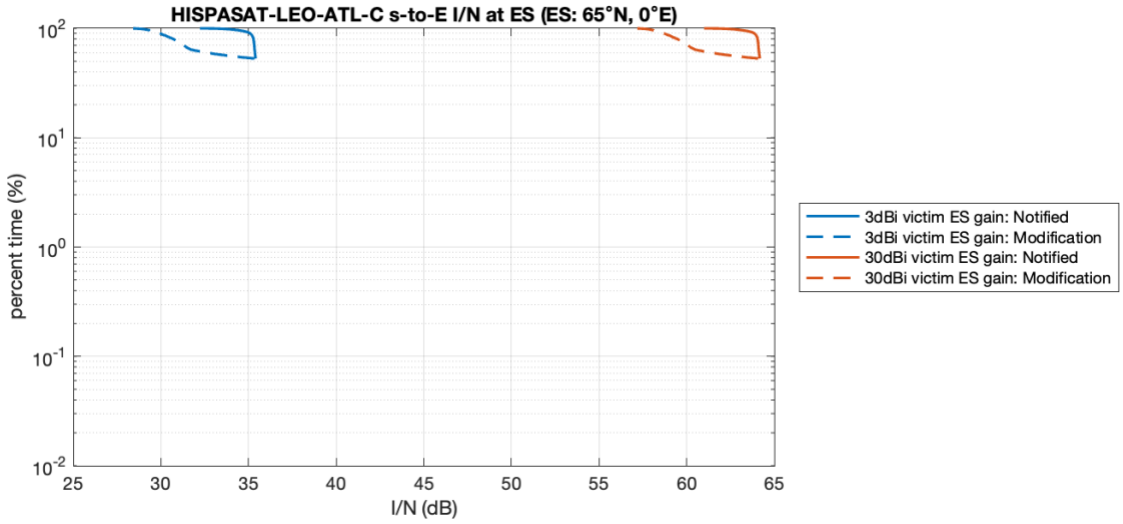

HISPASAT-LEO-ATL-C E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

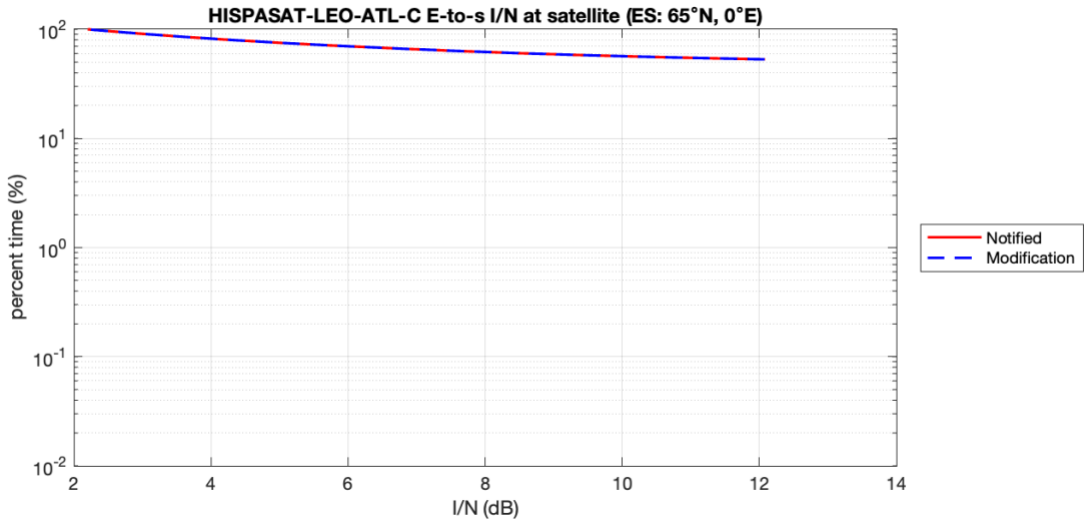

HISPASAT-LEO-ATL-C s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

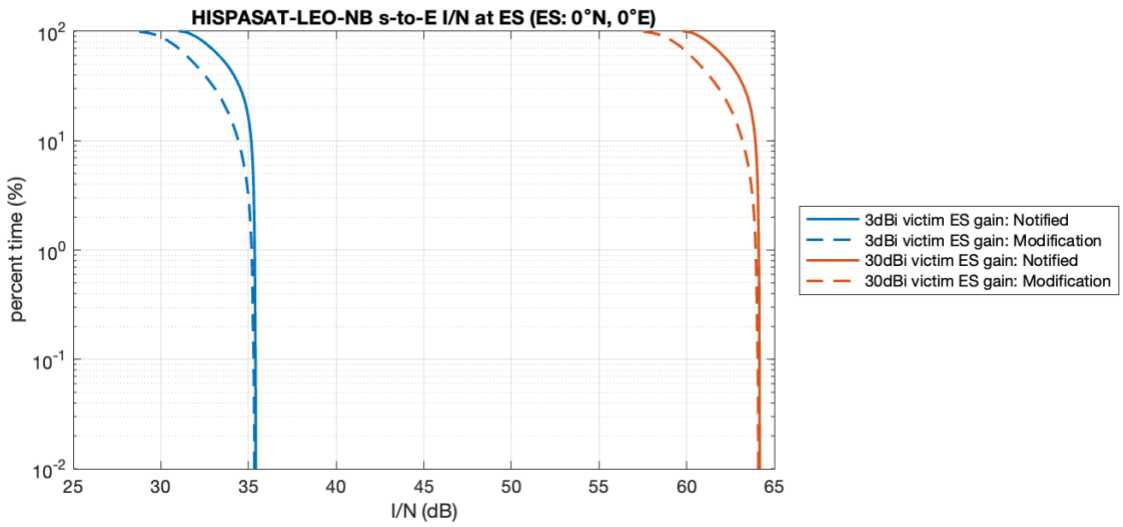

HISPASAT-LEO-ATL-C E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

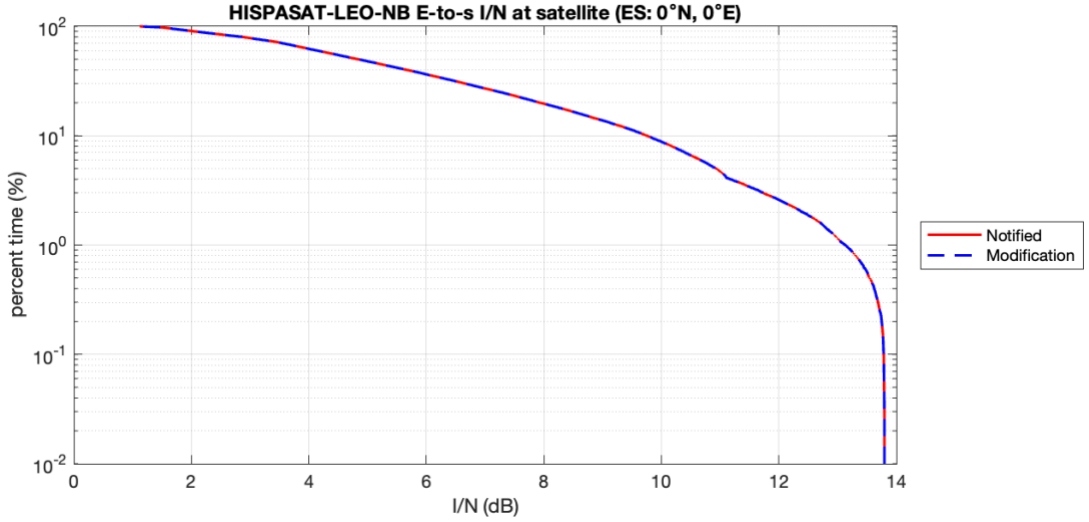

HISPASAT-LEO-ATL-C s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

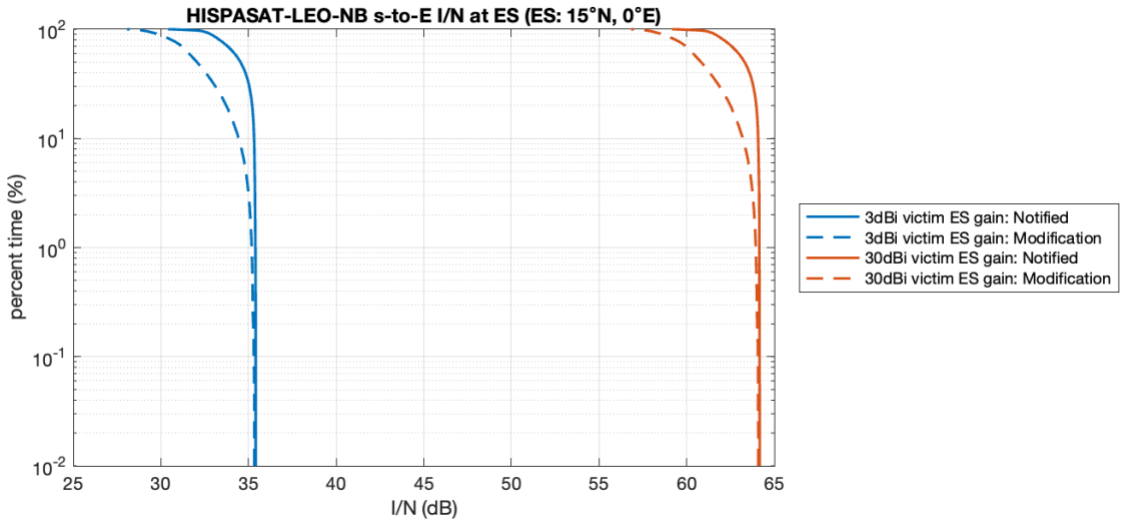

HISPASAT-LEO-ATL-C E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

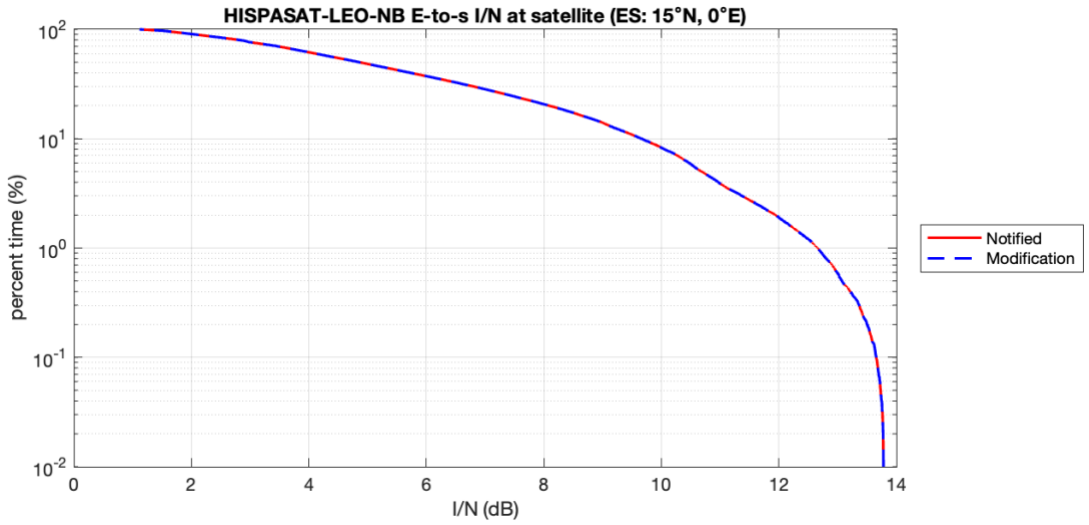

HISPASAT-LEO-ATL-C s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

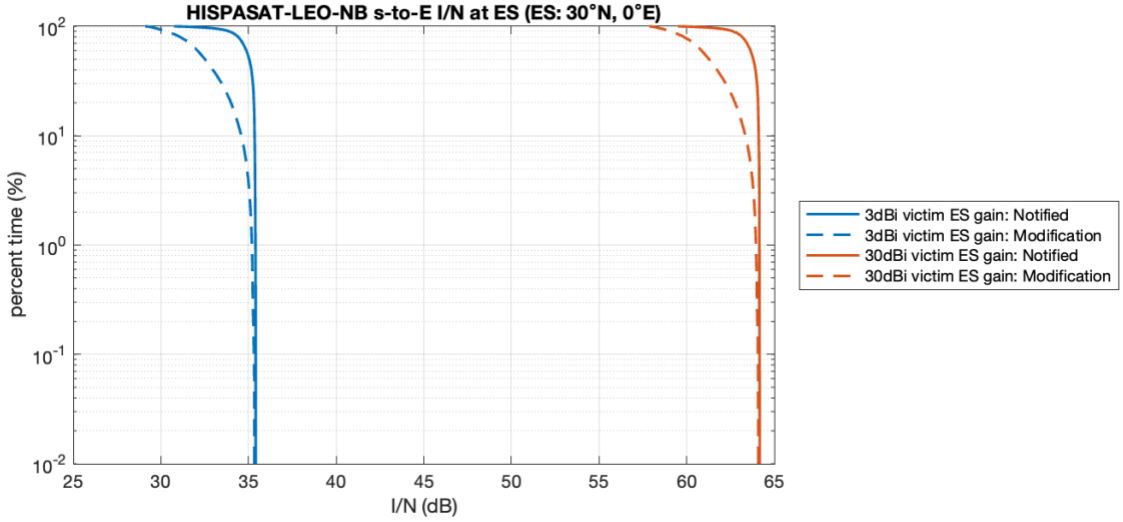

HISPASAT-LEO-ATL-C E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

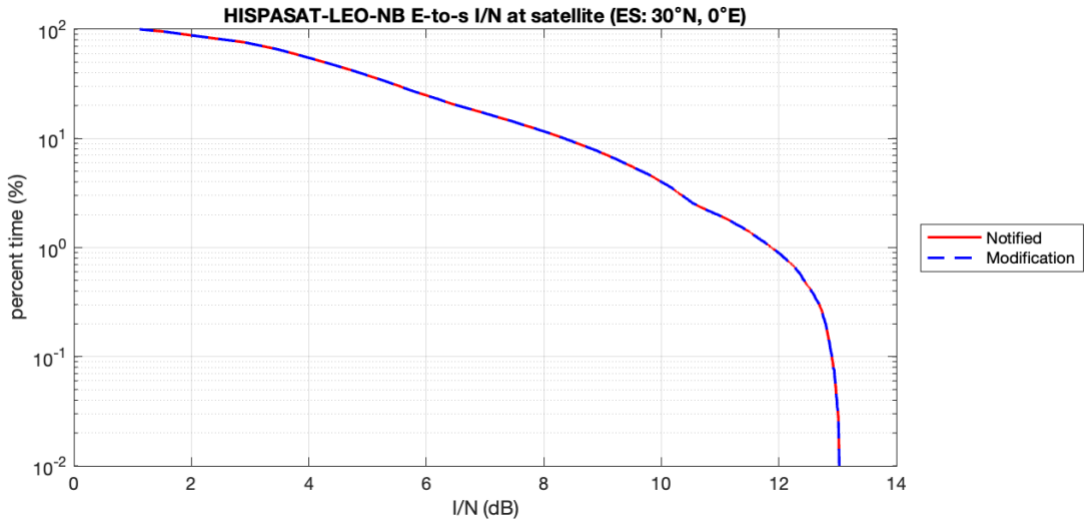

HISPASAT-LEO-NB s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

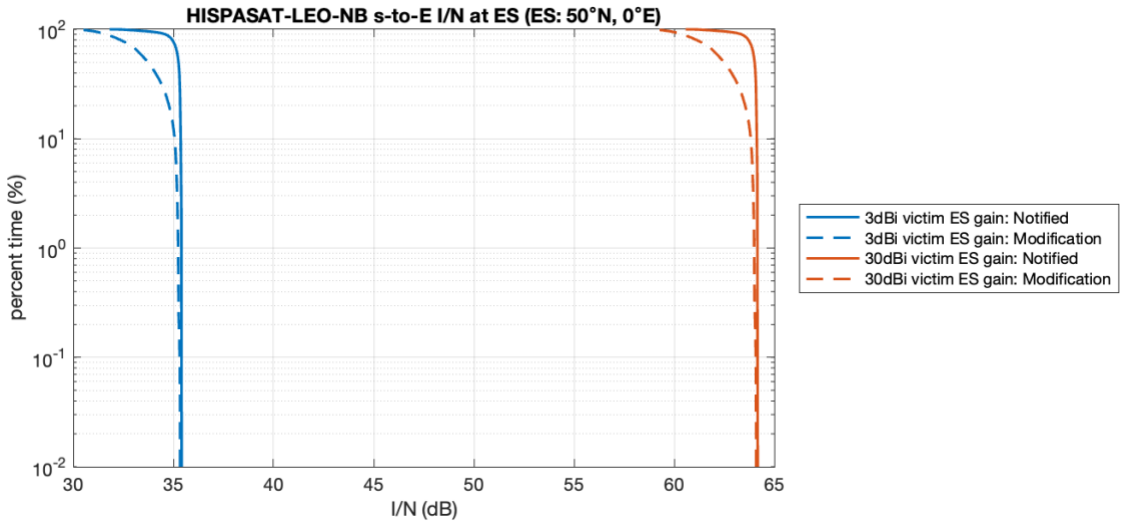

HISPASAT-LEO-NB E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

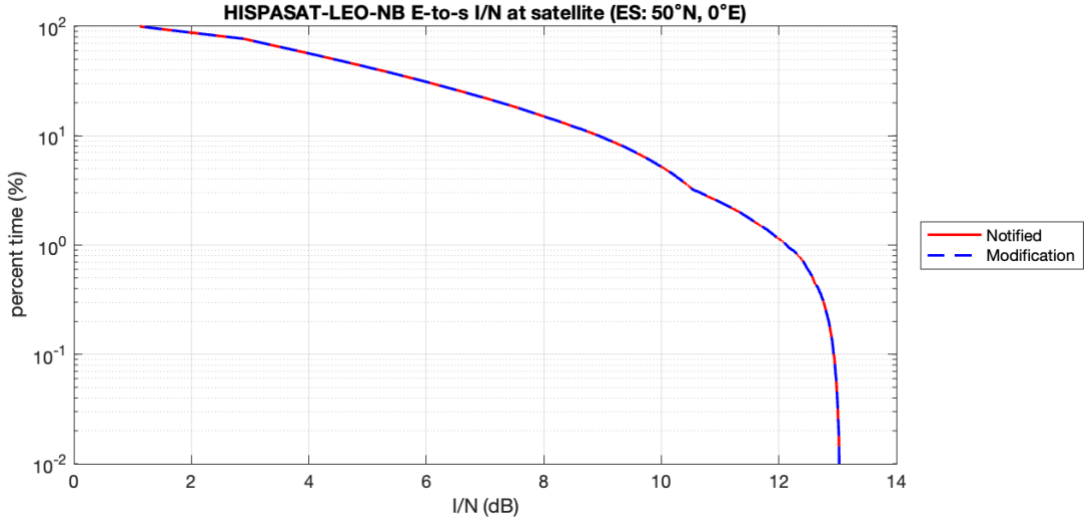

HISPASAT-LEO-NB s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

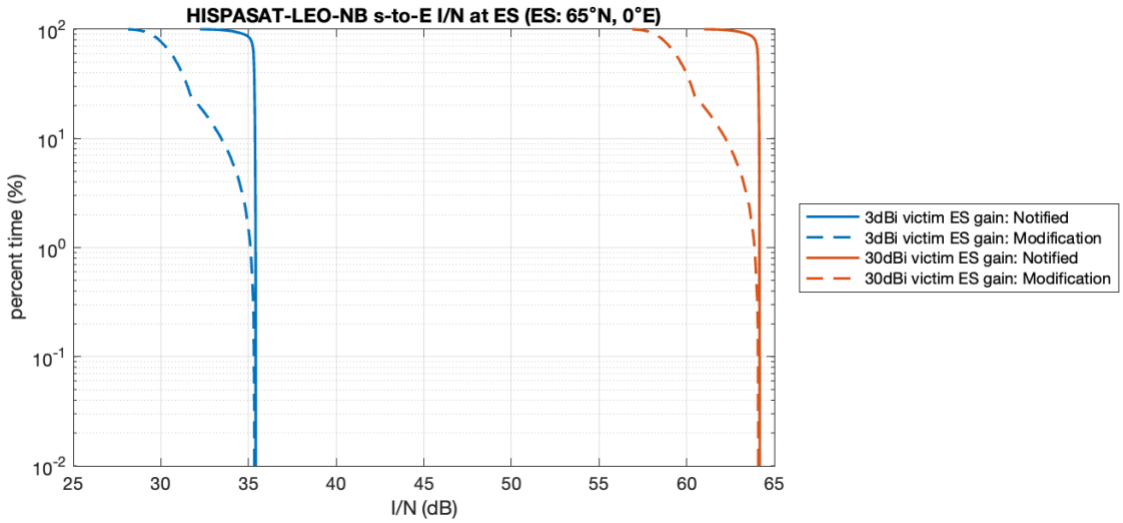

HISPASAT-LEO-NB E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

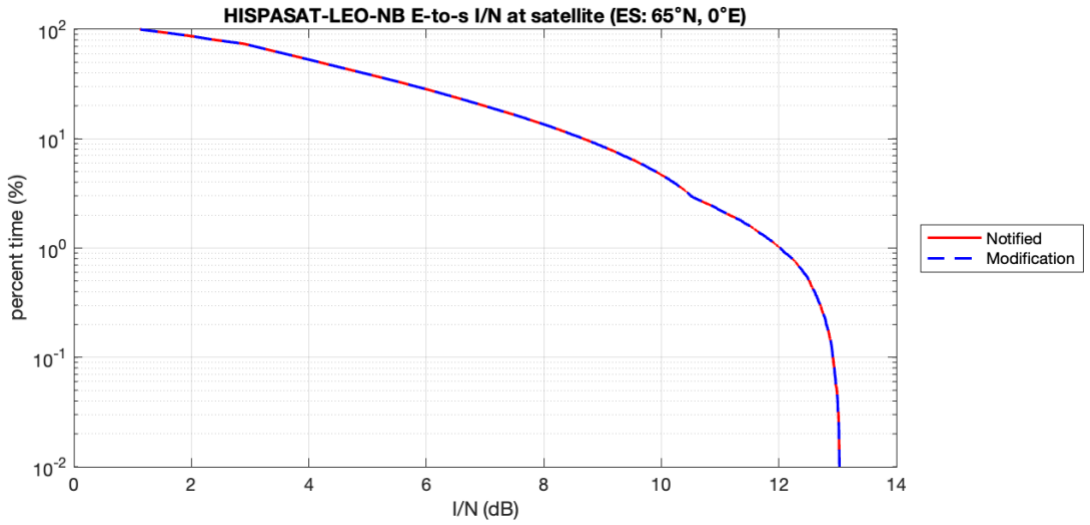

HISPASAT-LEO-NB s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

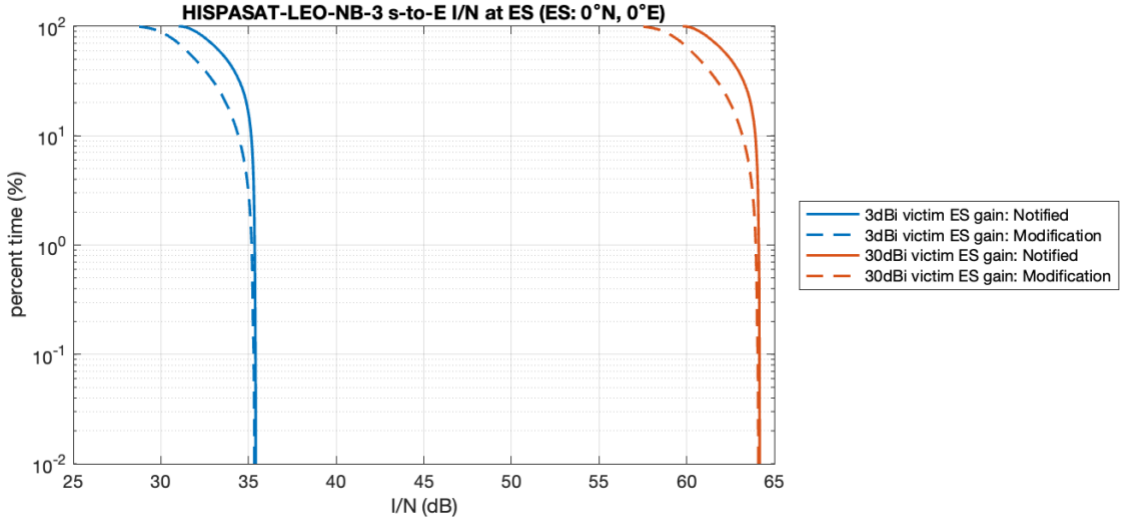

HISPASAT-LEO-NB E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

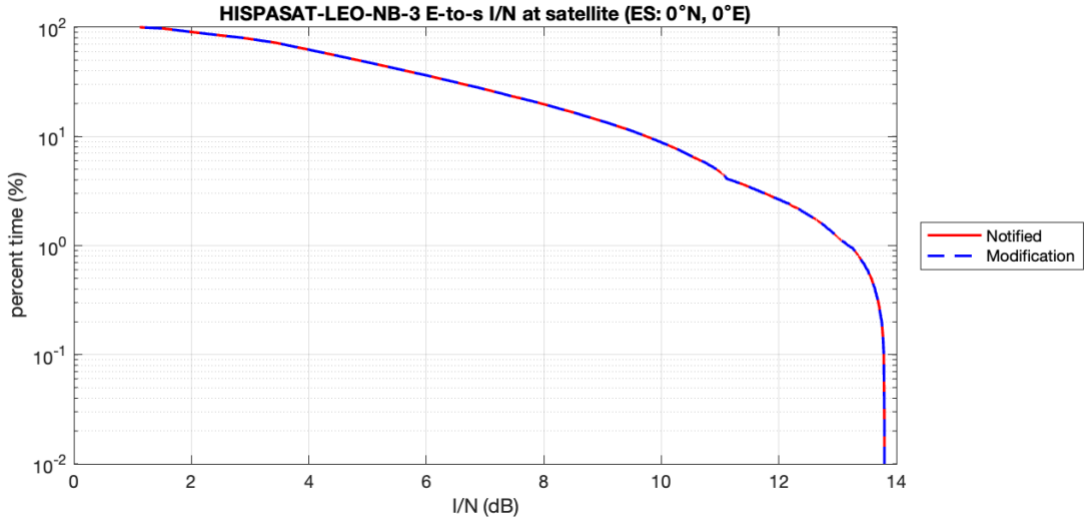

HISPASAT-LEO-NB s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

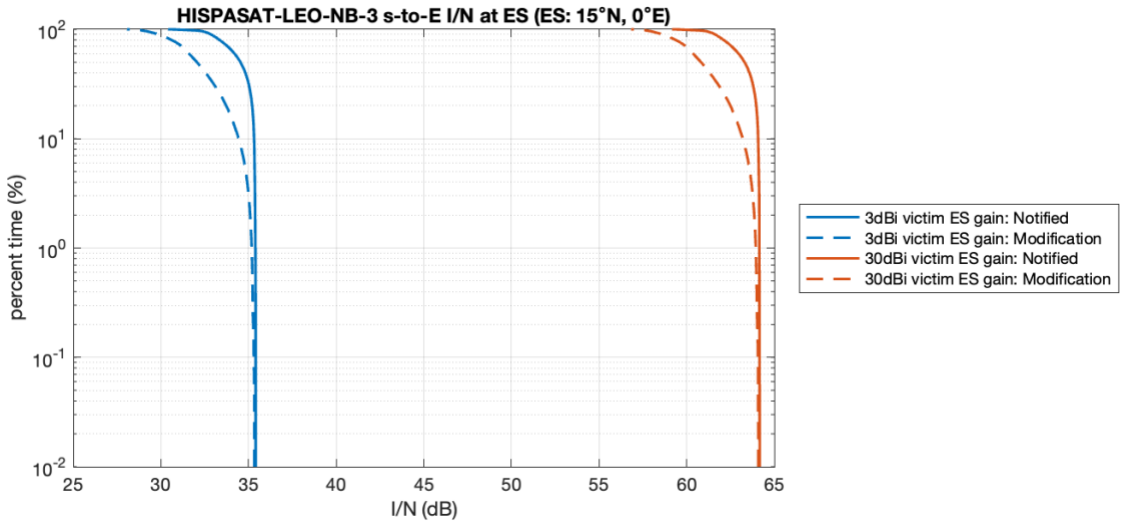

HISPASAT-LEO-NB E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

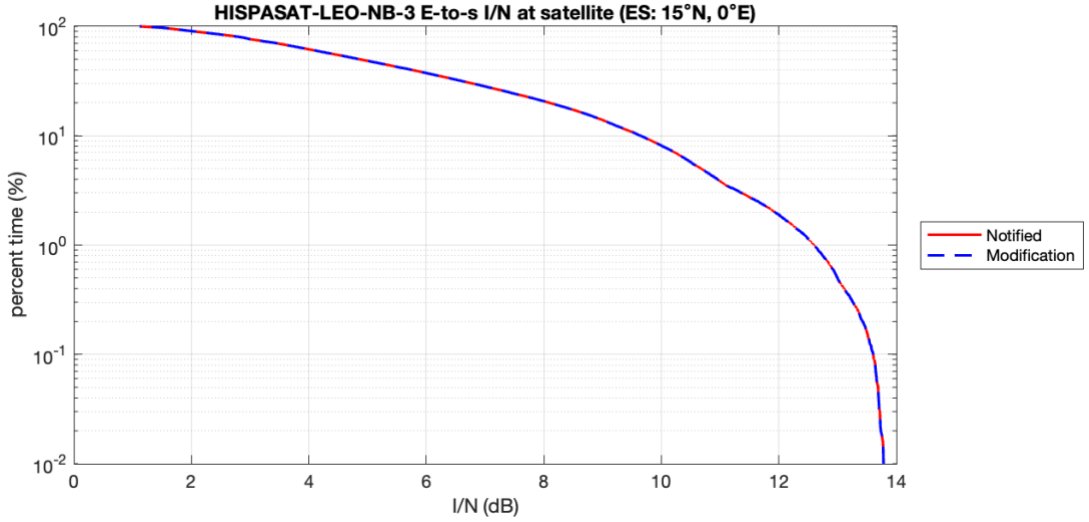

HISPASAT-LEO-NB s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

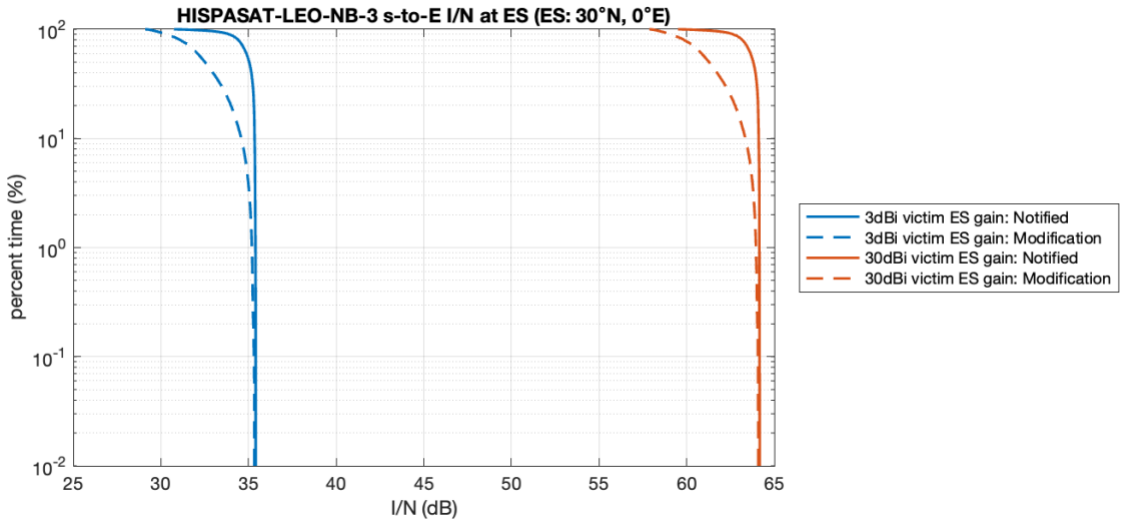

HISPASAT-LEO-NB E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

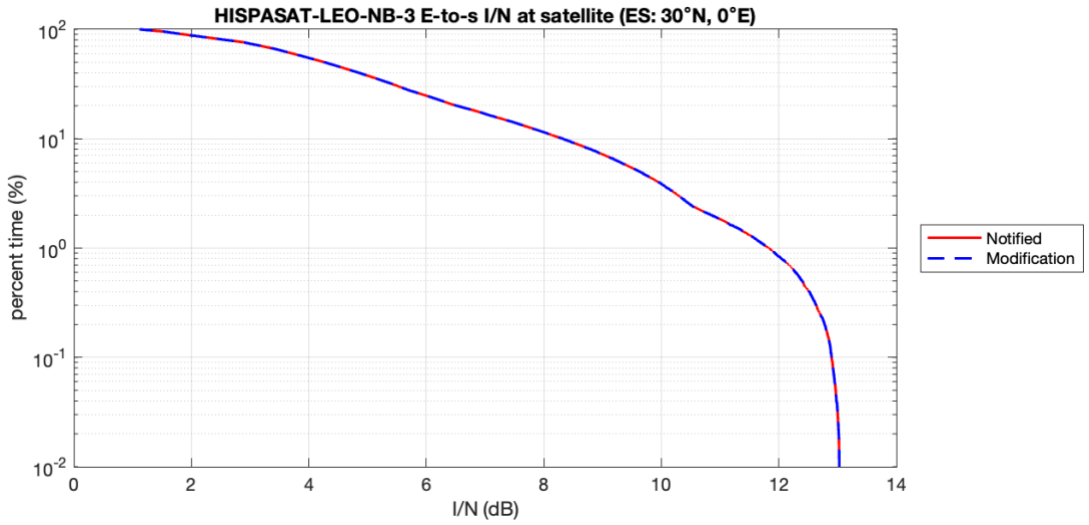

HISPASAT-LEO-NB-3 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

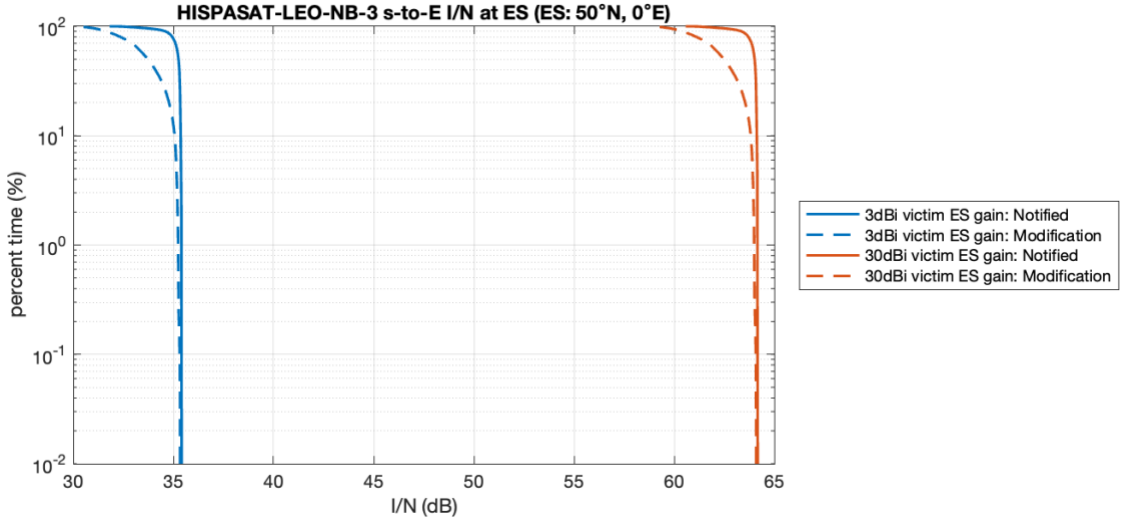

HISPASAT-LEO-NB-3 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

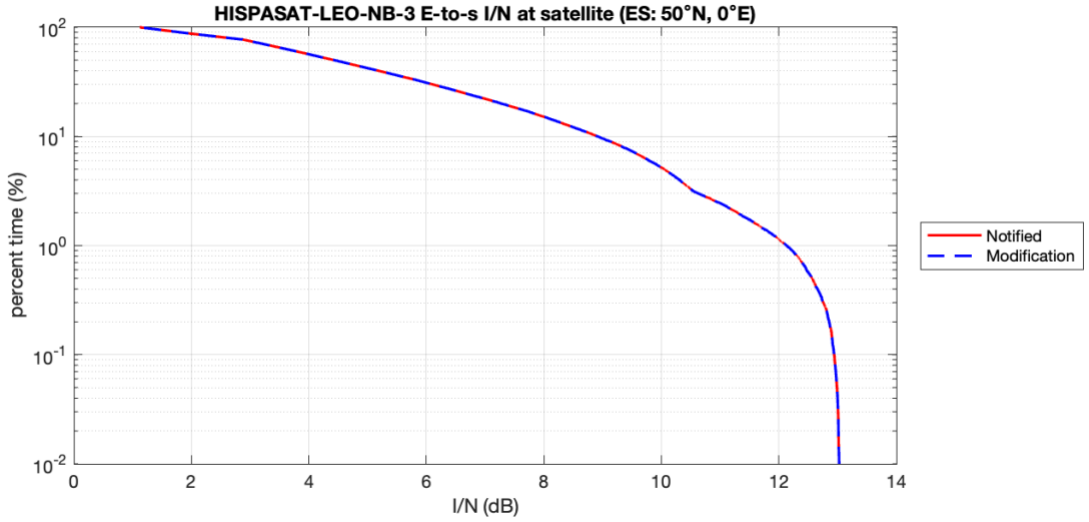

HISPASAT-LEO-NB-3 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

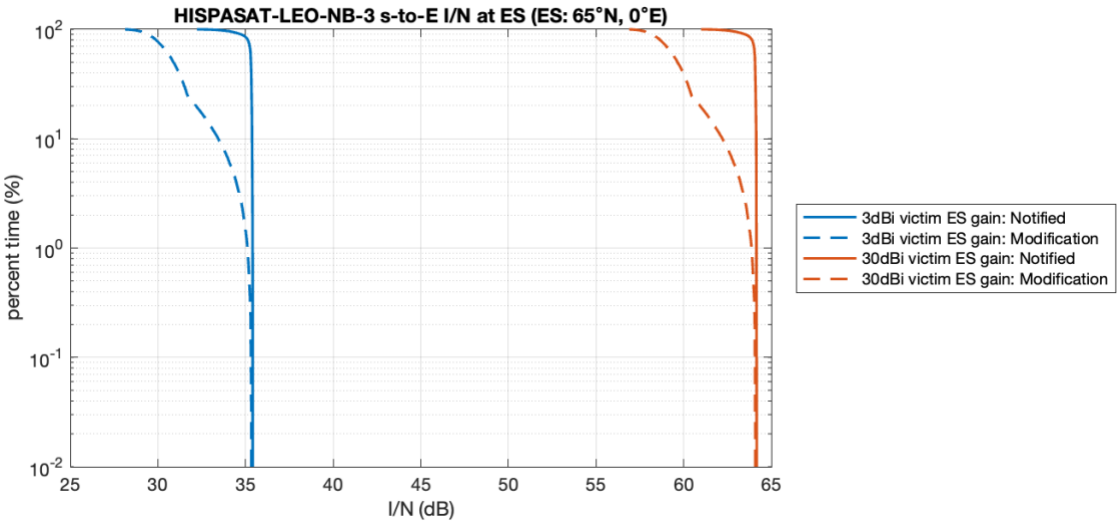

HISPASAT-LEO-NB-3 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

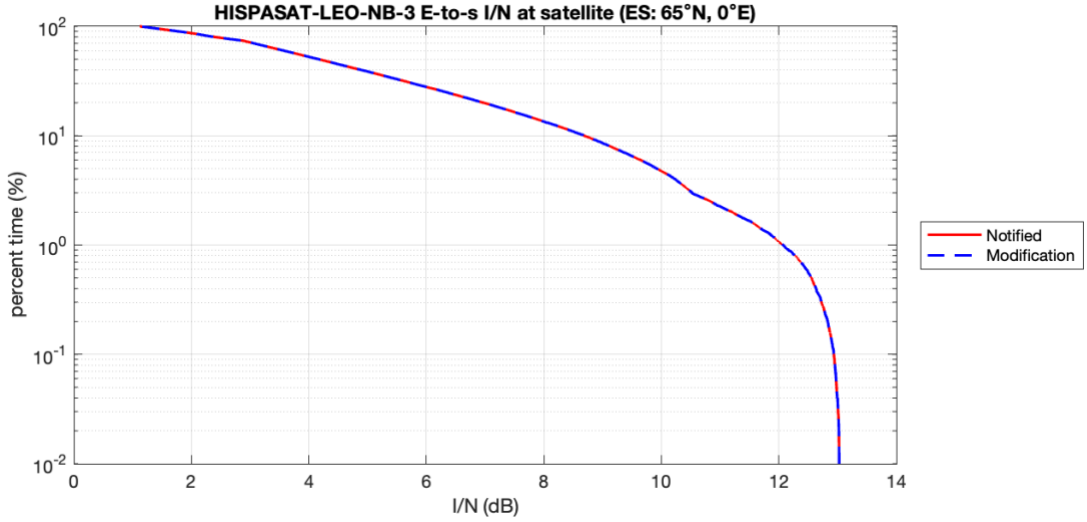

HISPASAT-LEO-NB-3 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

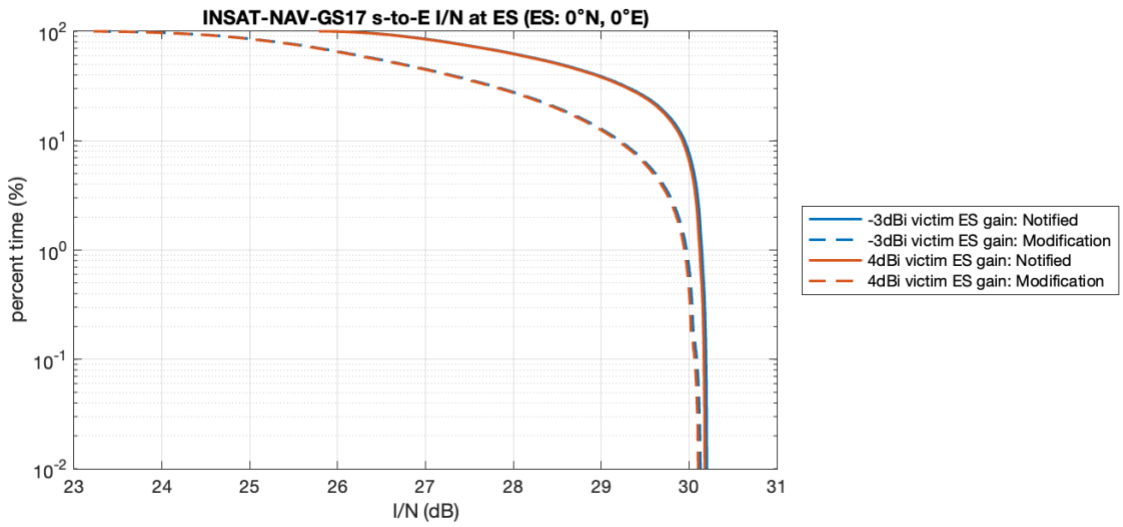

HISPASAT-LEO-NB-3 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

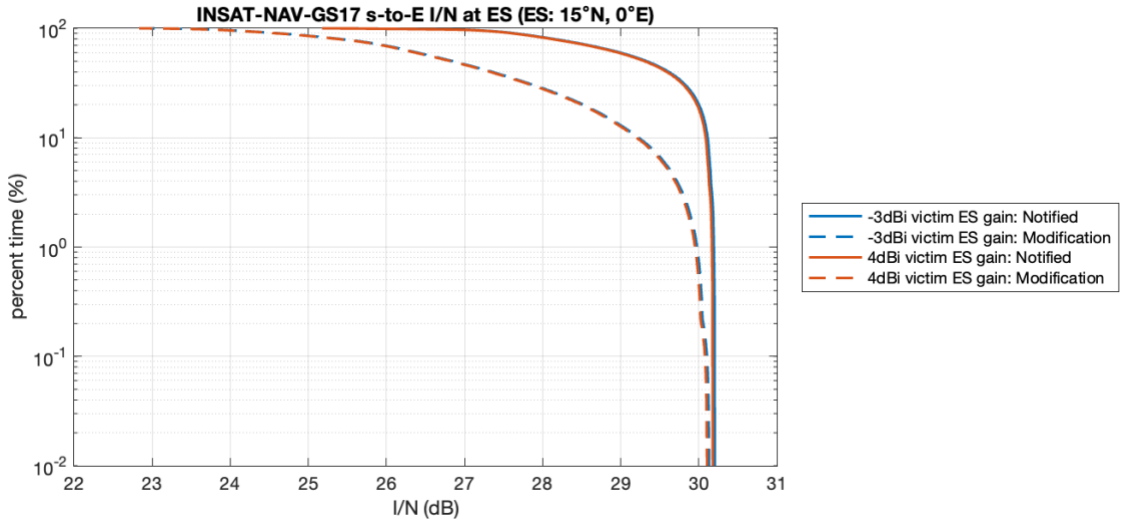

HISPASAT-LEO-NB-3 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

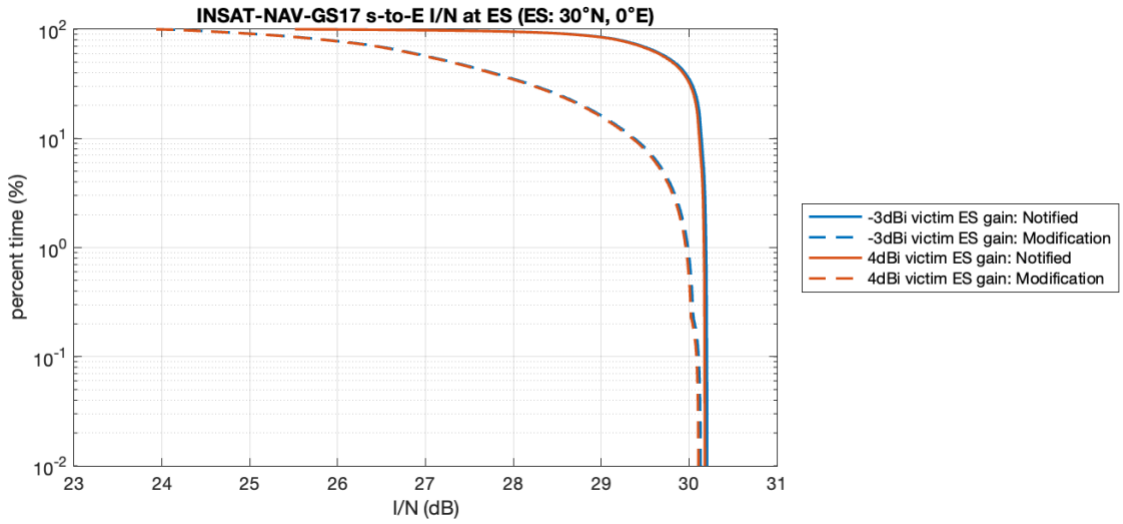

HISPASAT-LEO-NB-3 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

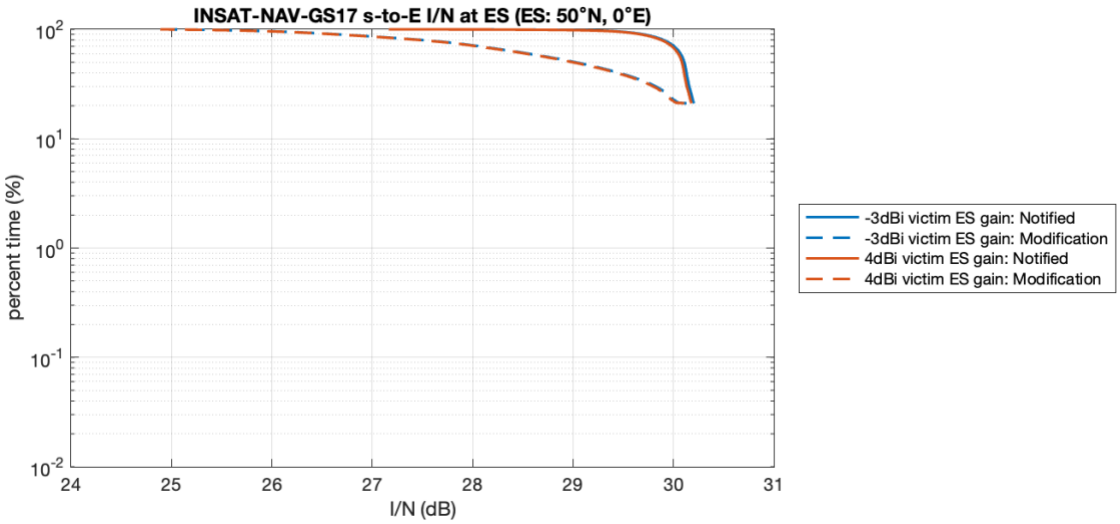

HISPASAT-LEO-NB-3 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
30dBi victim ES gain: Notified
30dBi victim ES gain: Modification

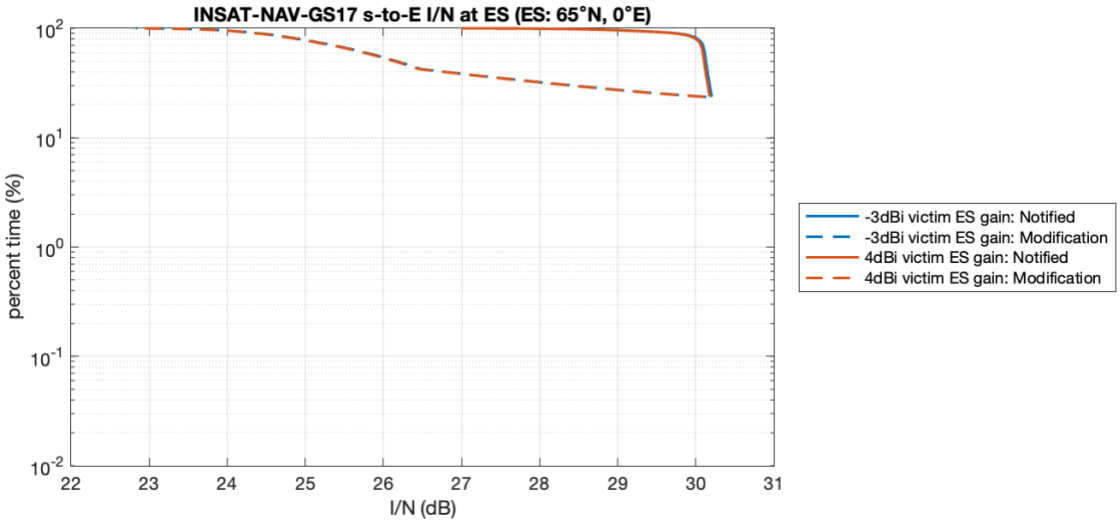

HISPASAT-LEO-NB-3 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

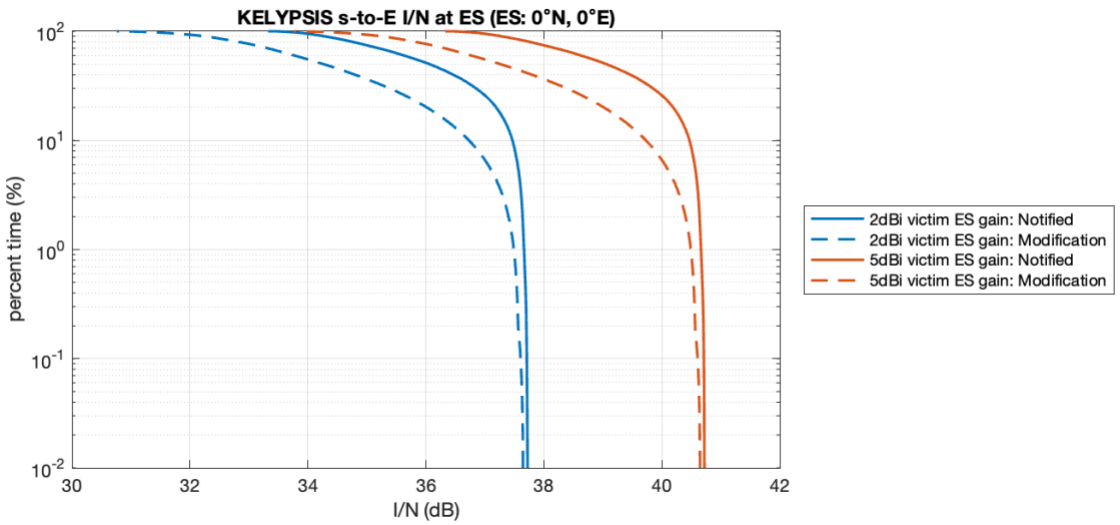

INSAT-NAV-GS17 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

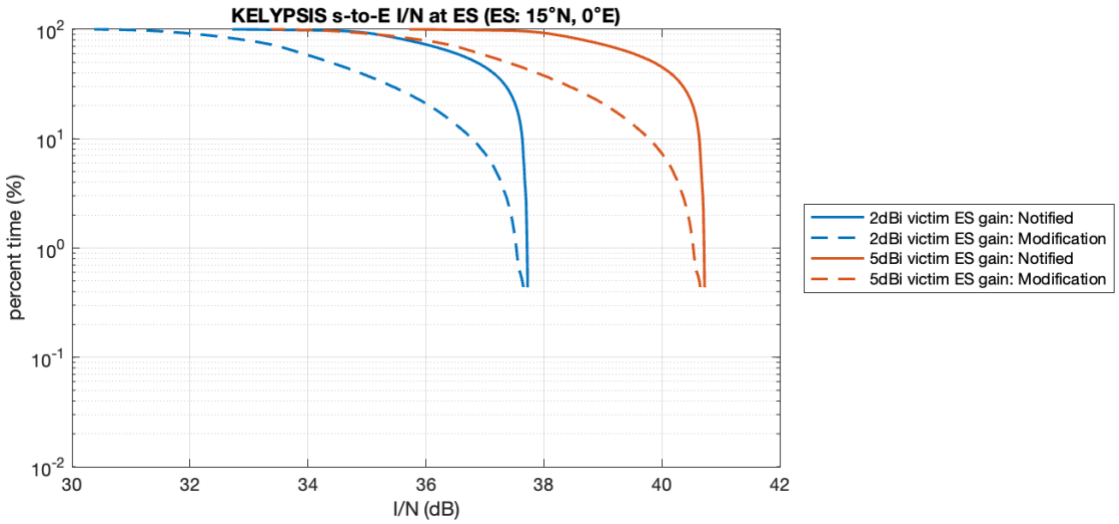

INSAT-NAV-GS17 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

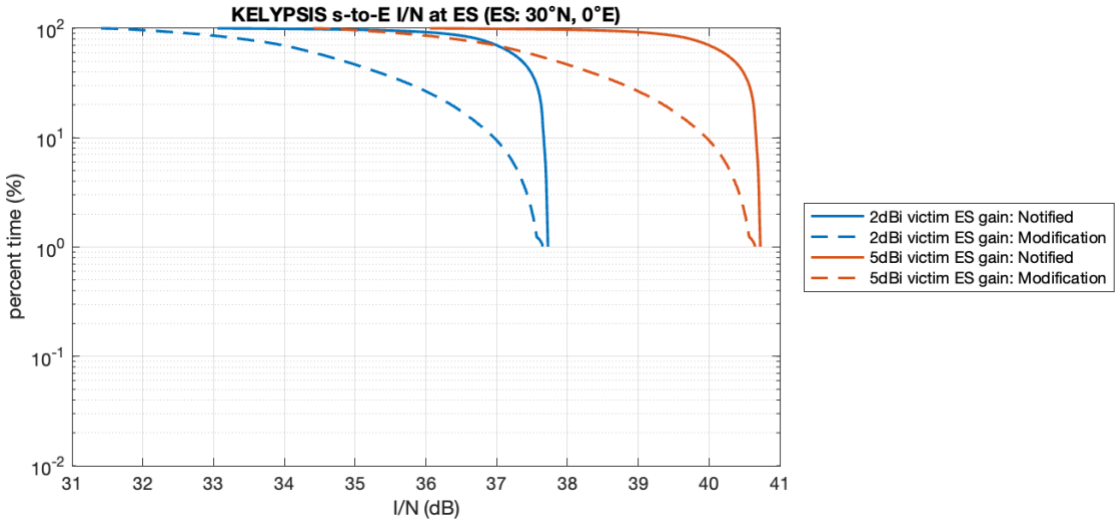

INSAT-NAV-GS17 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

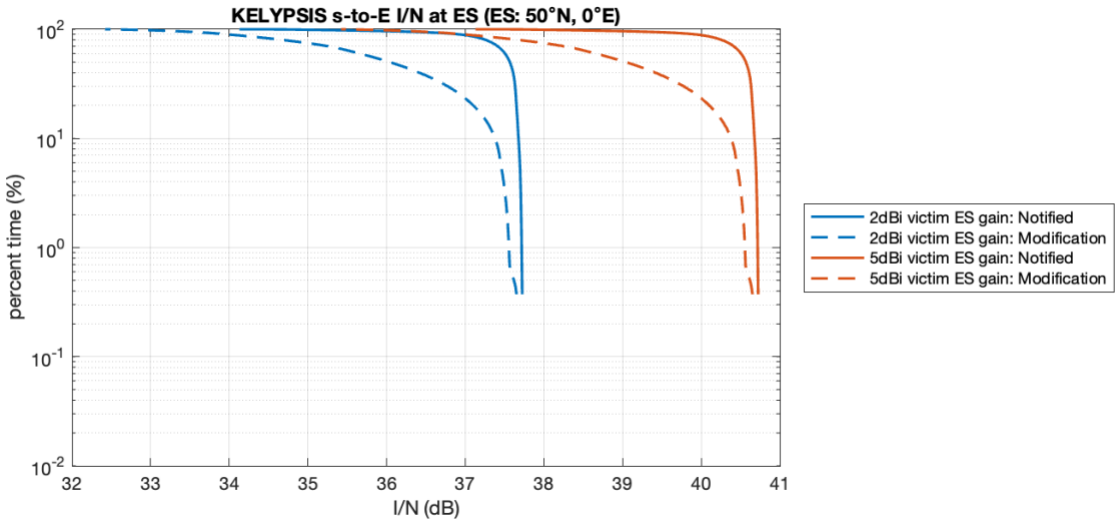

INSAT-NAV-GS17 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

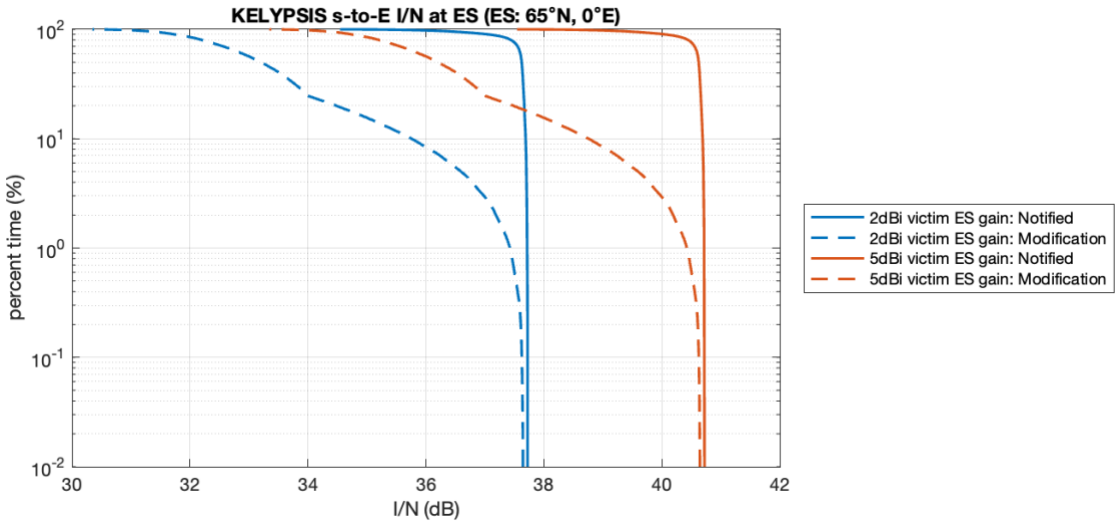

INSAT-NAV-GS17 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
4dBi victim ES gain: Notified
4dBi victim ES gain: Modification

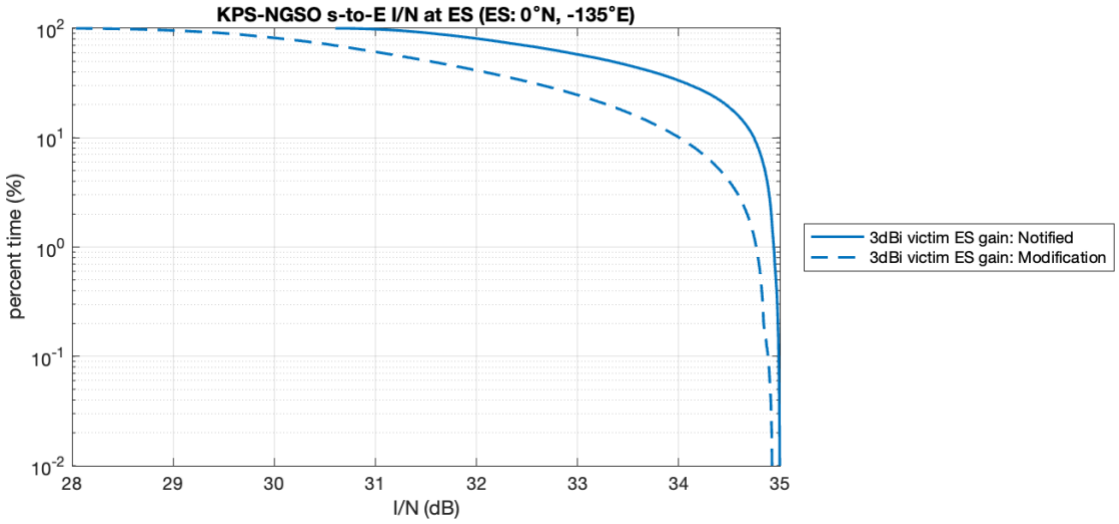

KELYPSIS s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

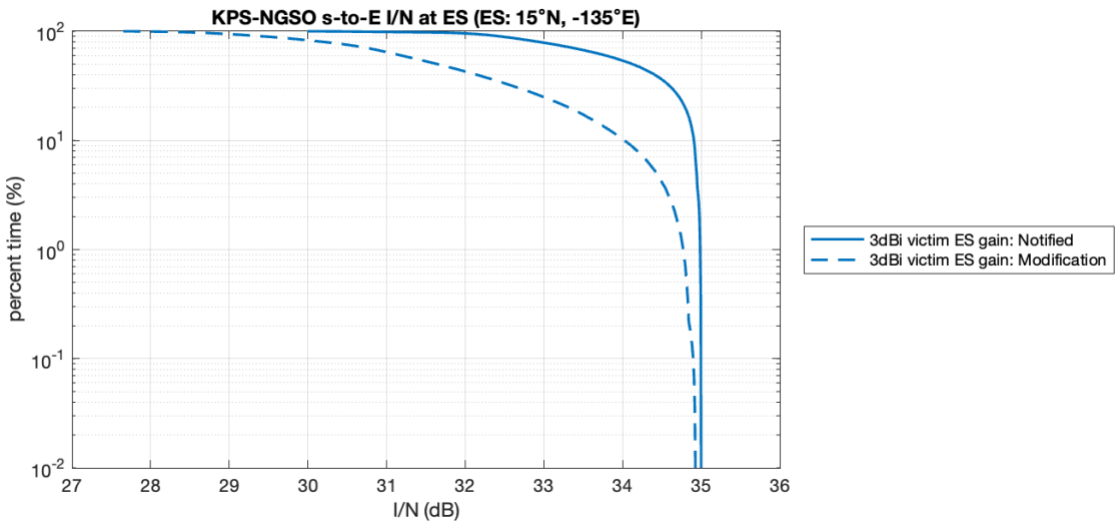

KELYPSIS s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

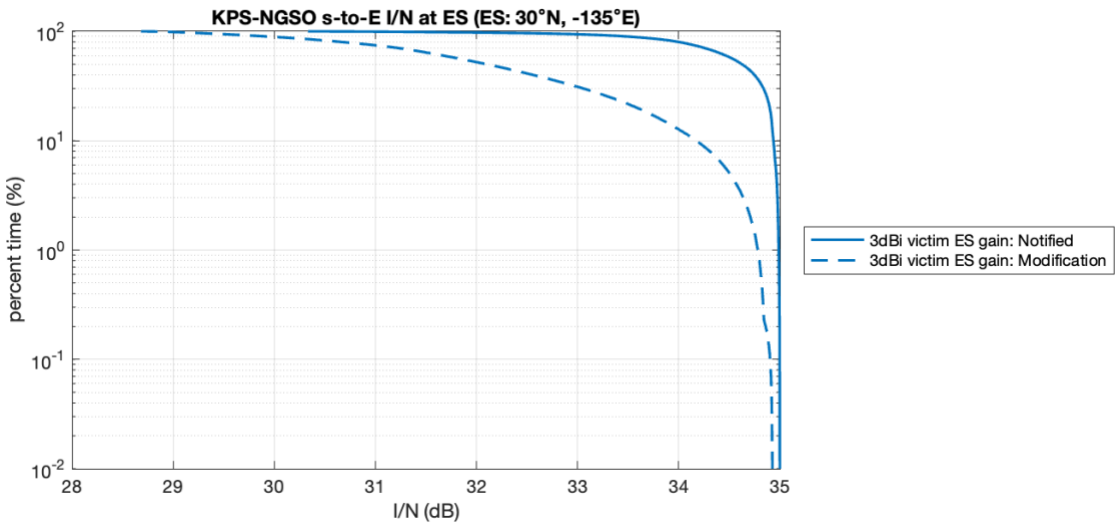

KELYPSIS s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

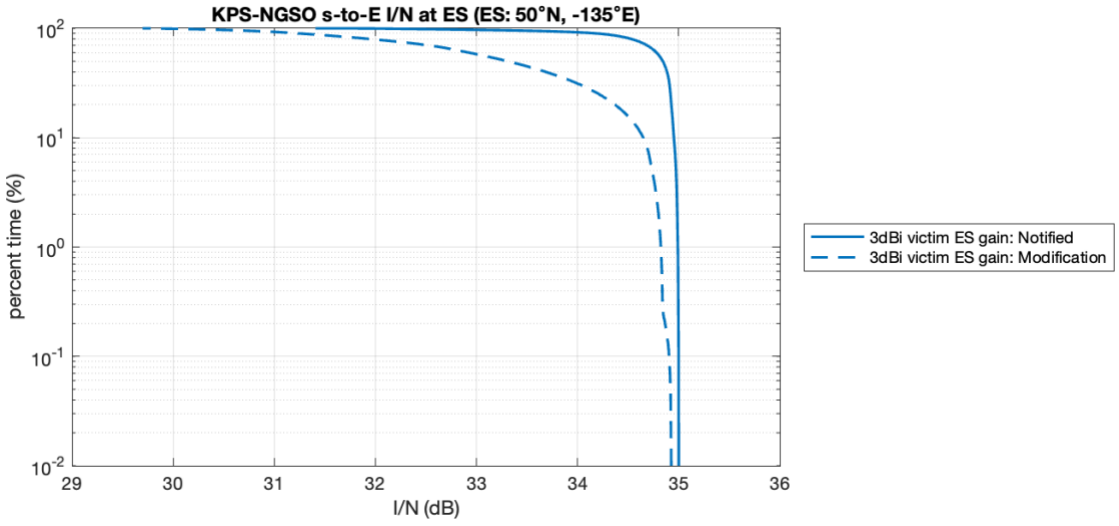

KELYPSIS s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

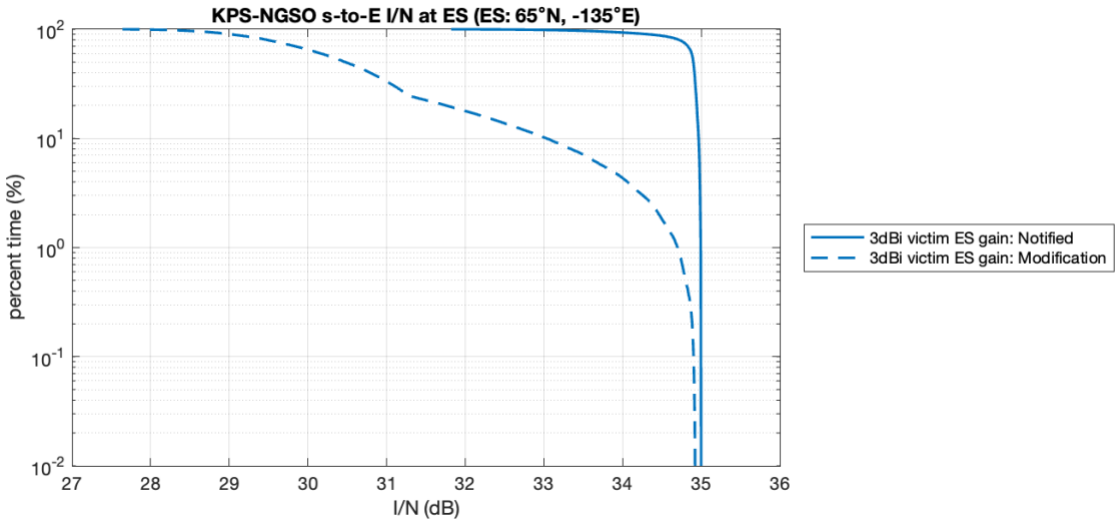

KELYPSIS s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
2dBi victim ES gain: Notified
2dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

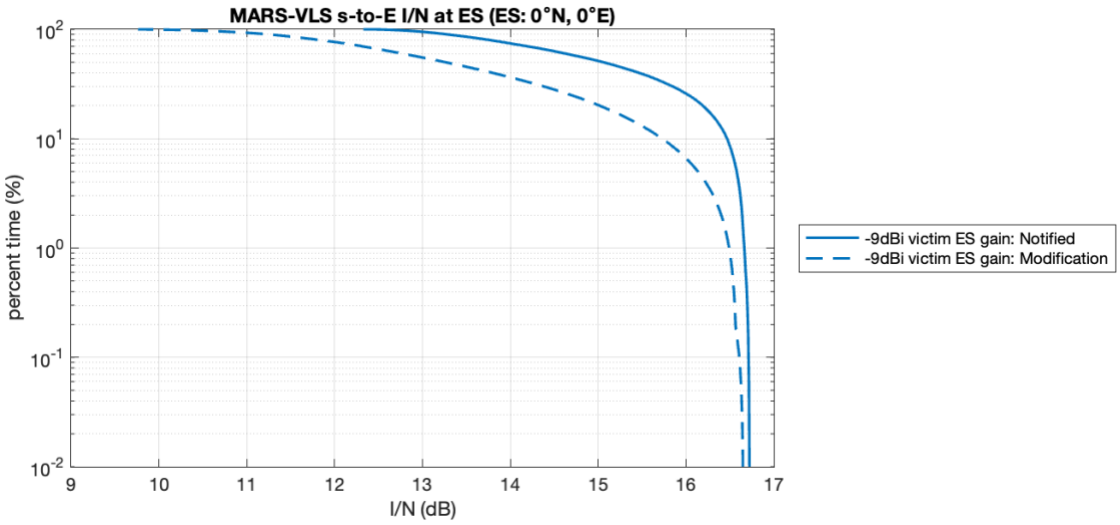

KPS-NGSO s-to-E I/N at ES (ES: 0°N, -135°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

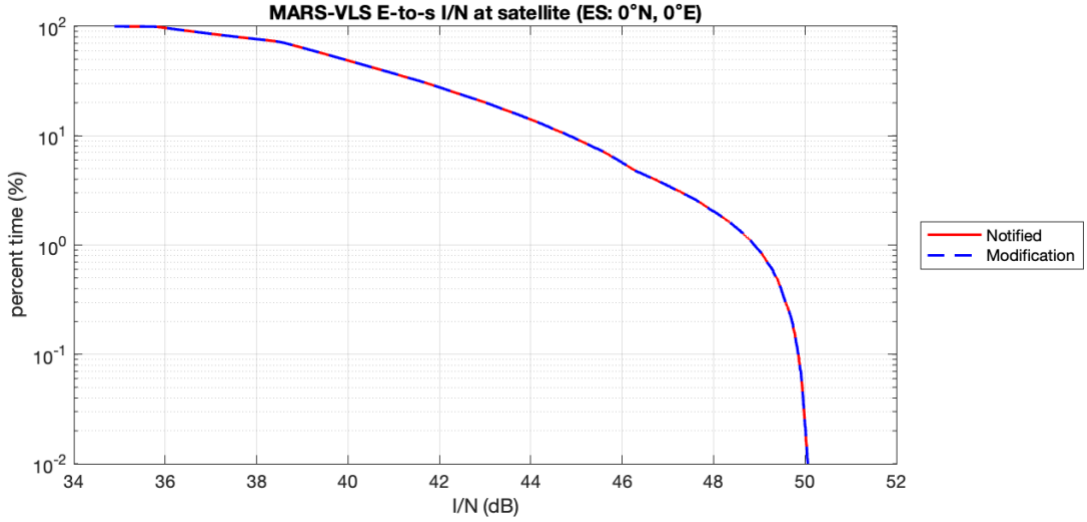

KPS-NGSO s-to-E I/N at ES (ES: 15°N, -135°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

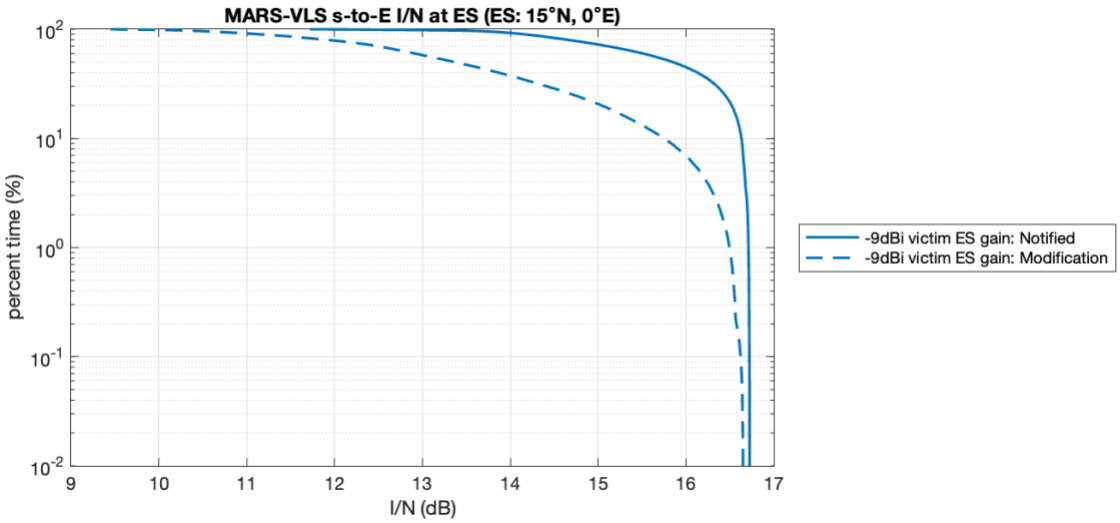

KPS-NGSO s-to-E I/N at ES (ES: 30°N, -135°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

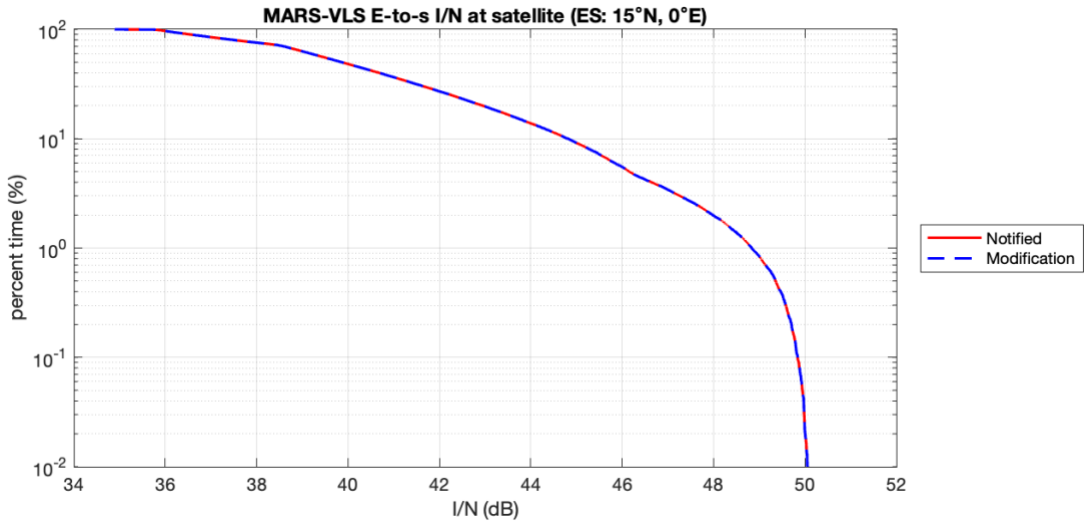

KPS-NGSO s-to-E I/N at ES (ES: 50°N, -135°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

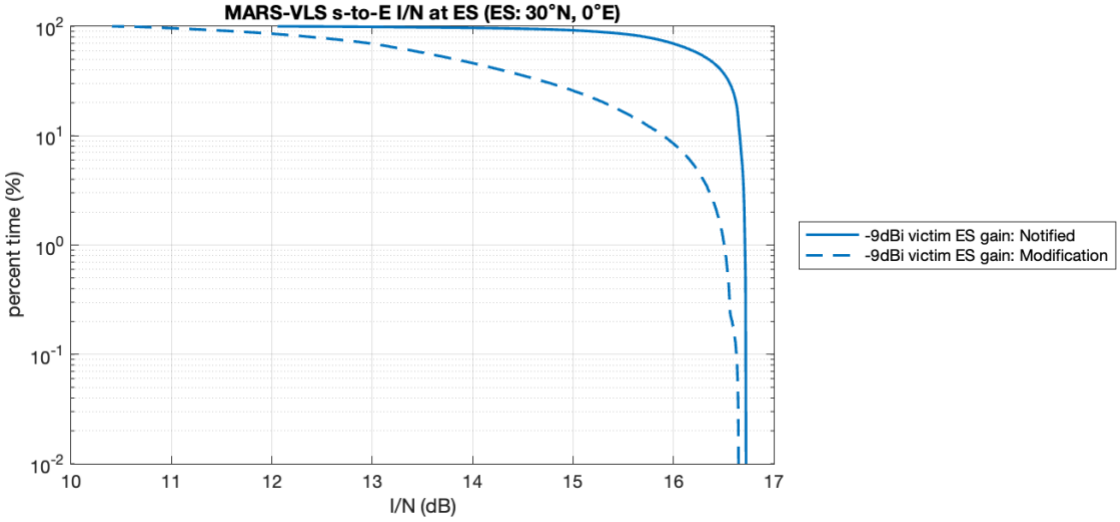

KPS-NGSO s-to-E I/N at ES (ES: 65°N, -135°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

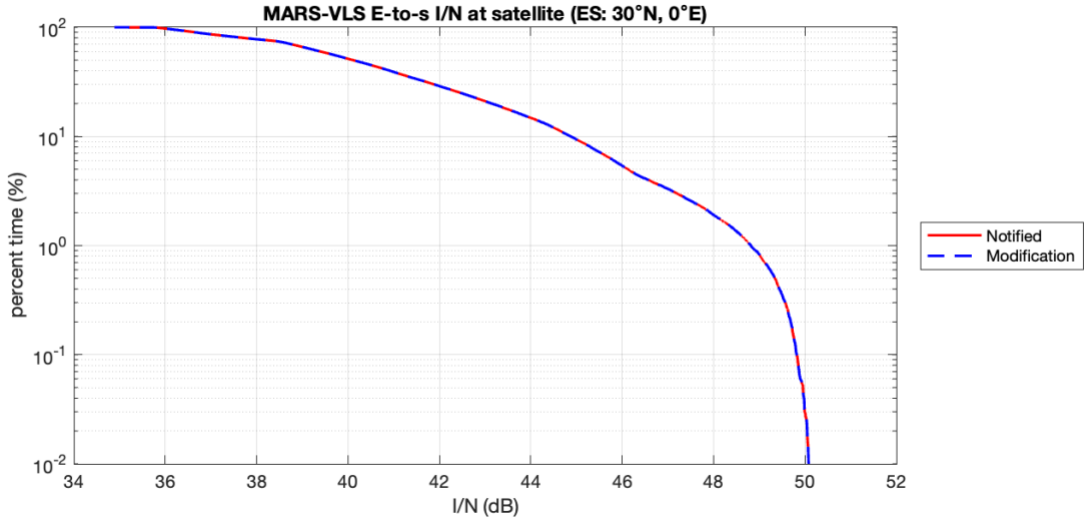

MARS-VLS s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification

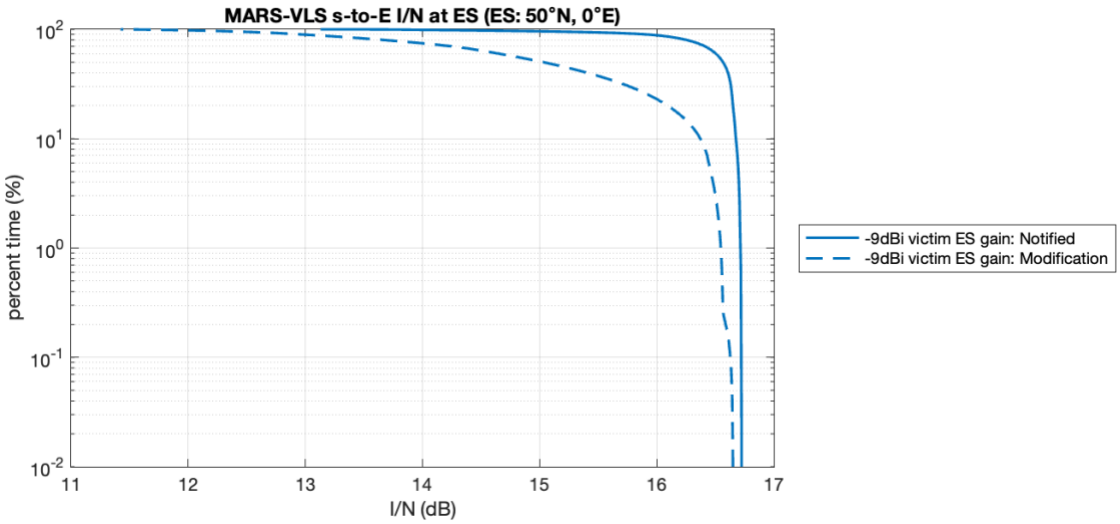

MARS-VLS E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

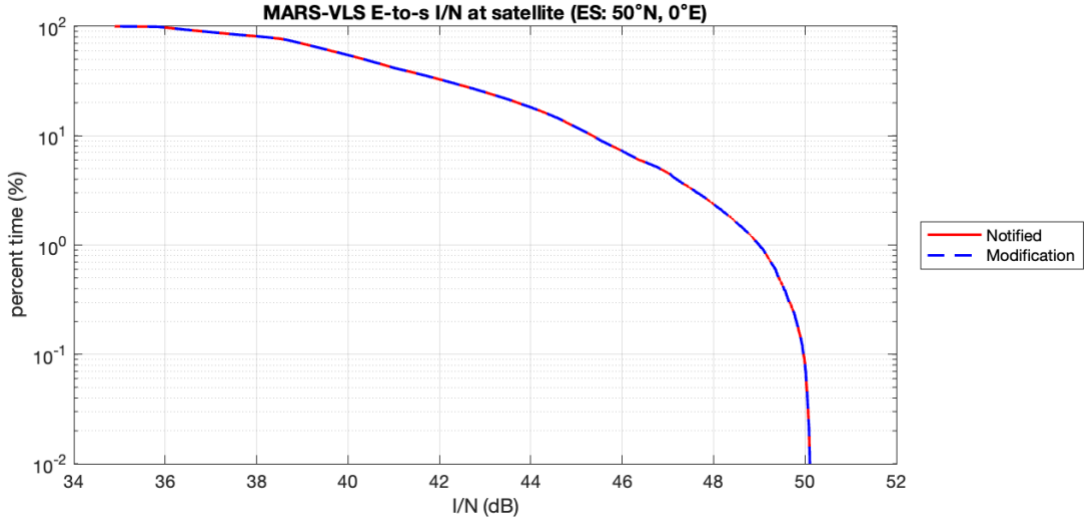

MARS-VLS s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification

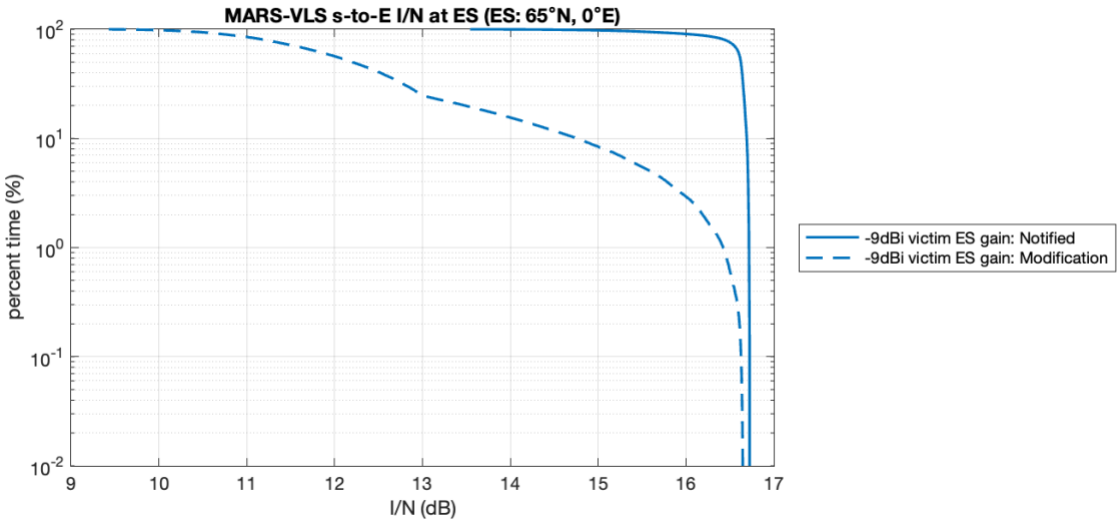

MARS-VLS E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

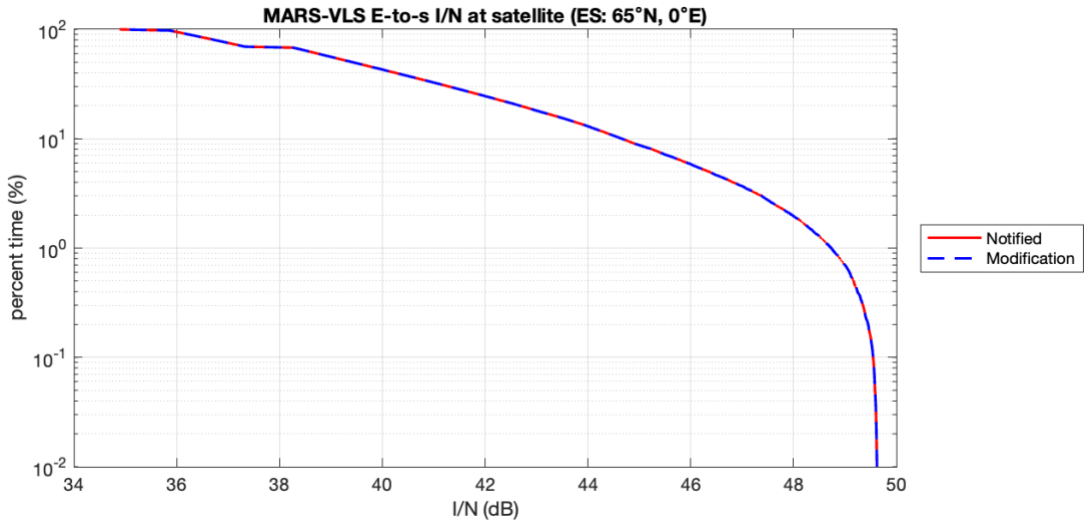

MARS-VLS s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification

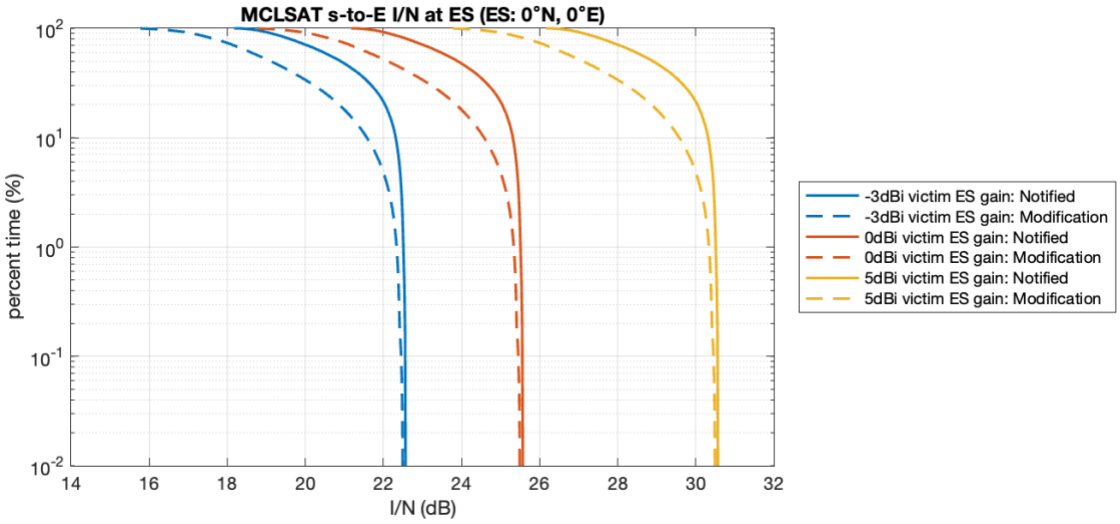

MARS-VLS E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

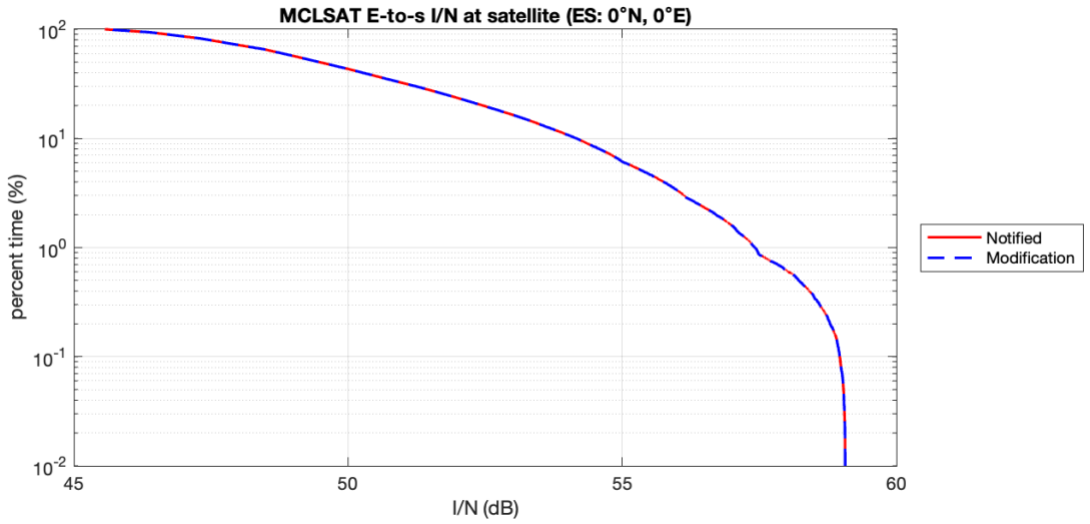

MARS-VLS s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification

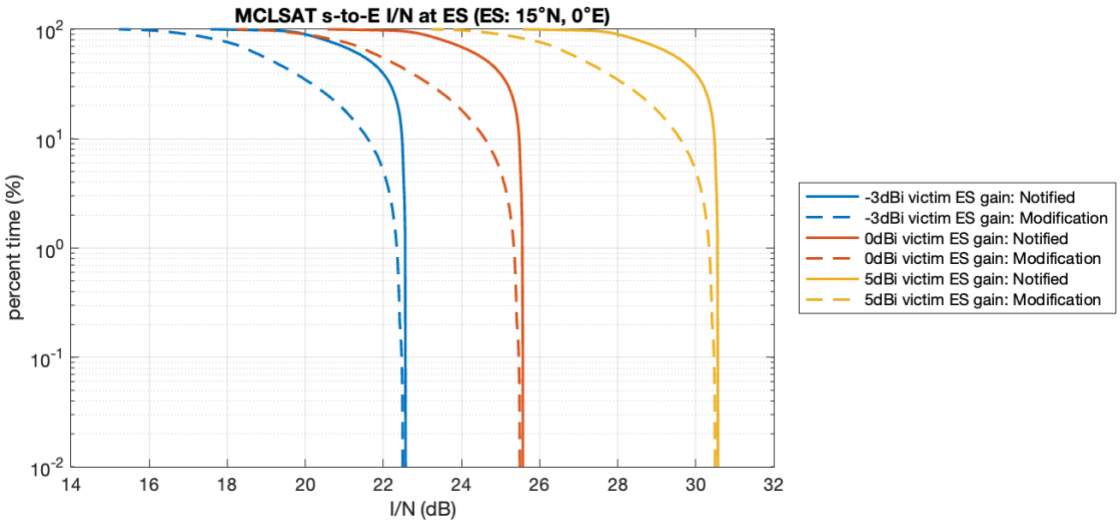

MARS-VLS E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

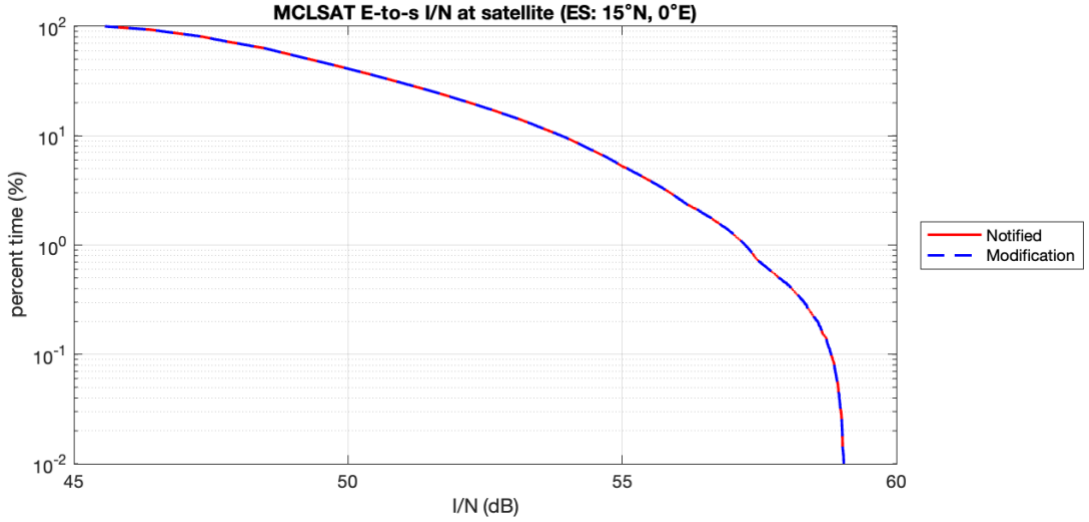

MARS-VLS s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification

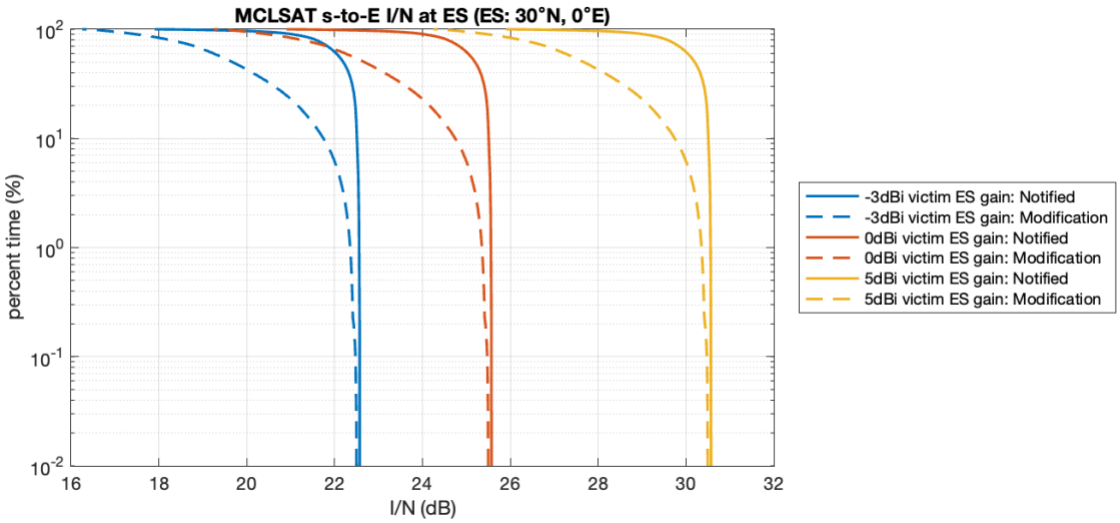

MARS-VLS E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

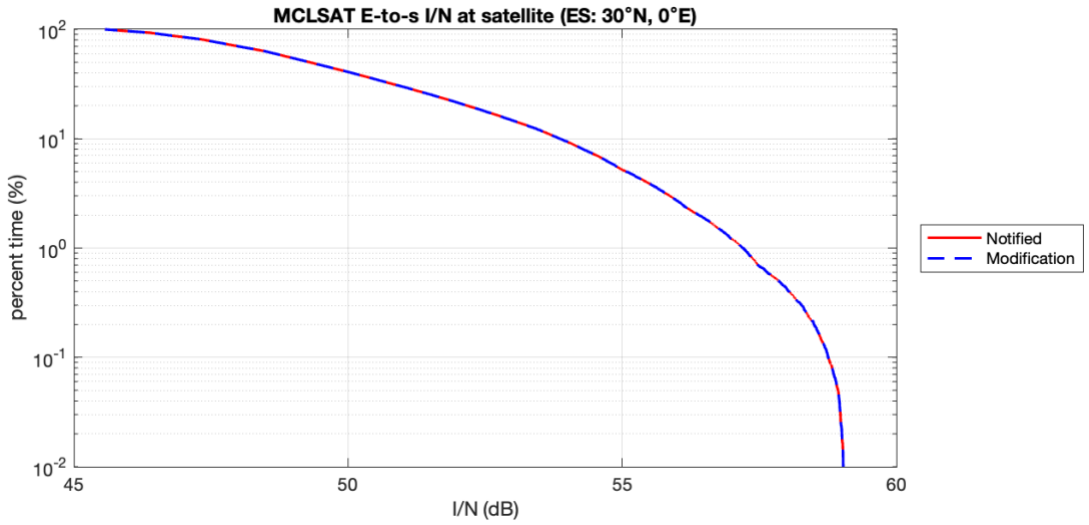

MCLSAT s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

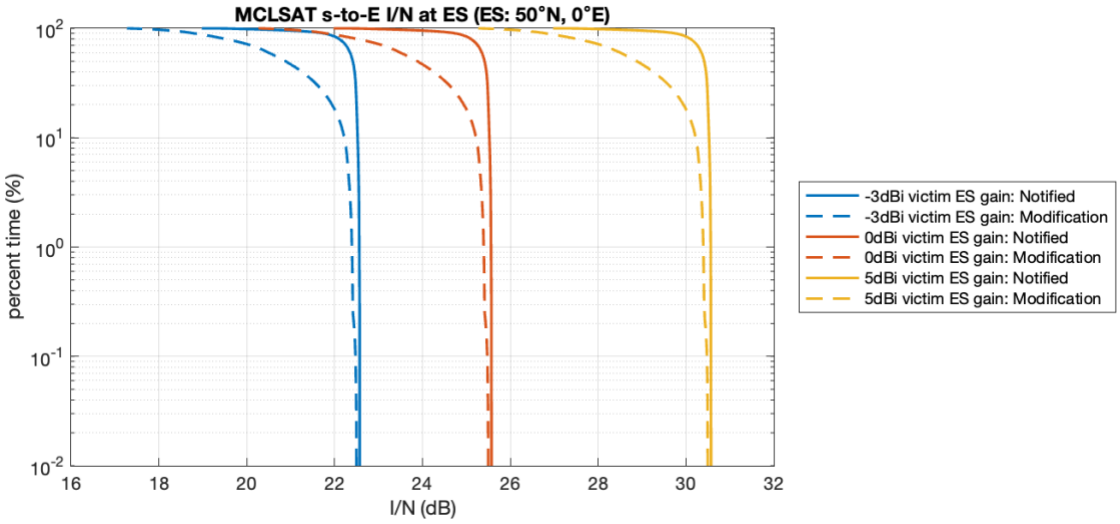

MCLSAT E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

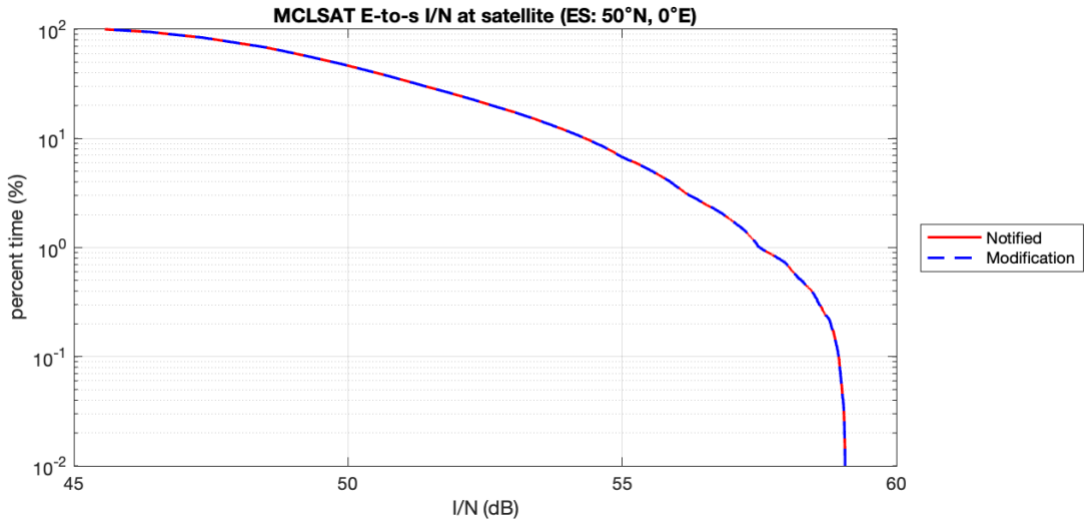

MCLSAT s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

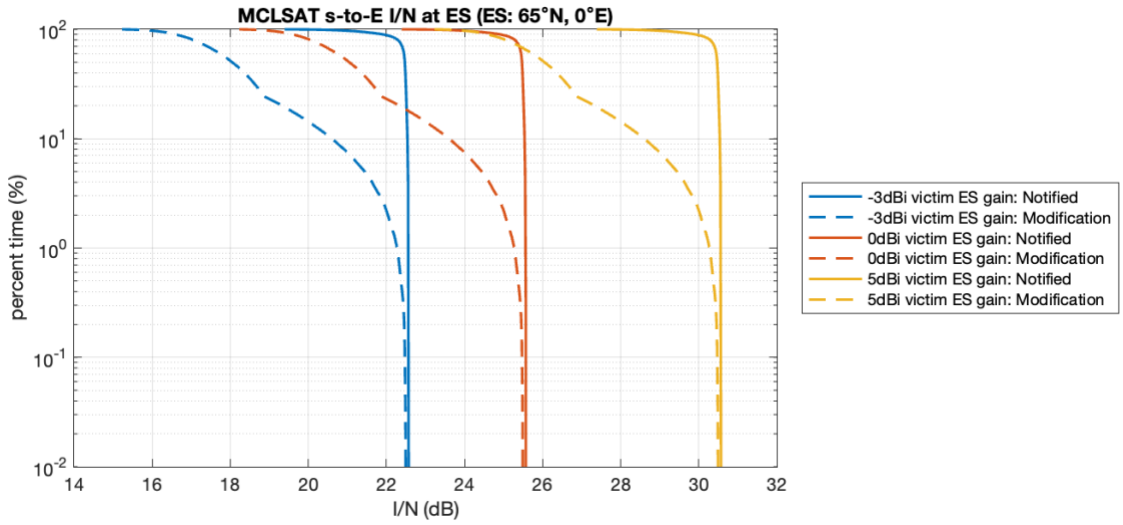

MCLSAT E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

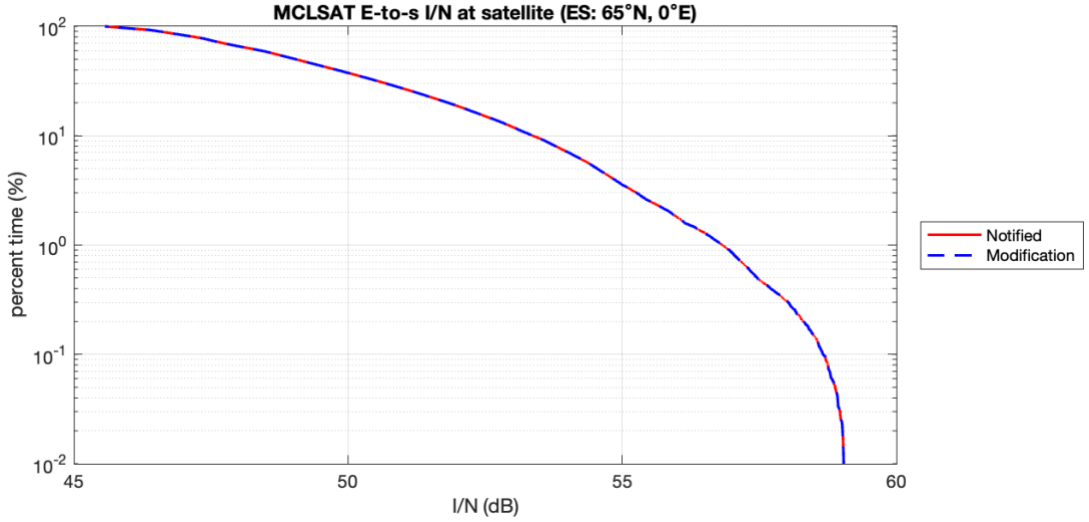

MCLSAT s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

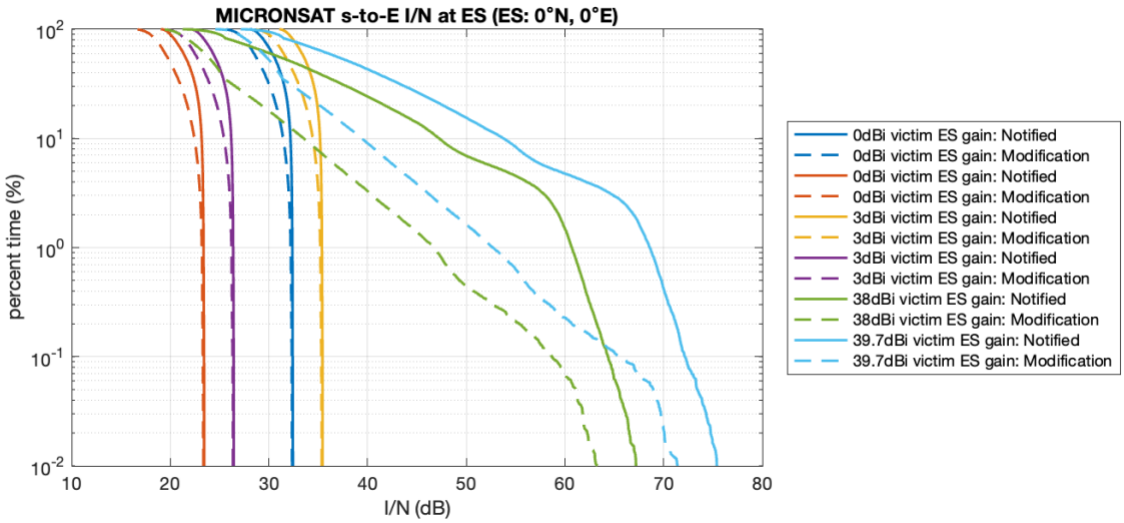

MCLSAT E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

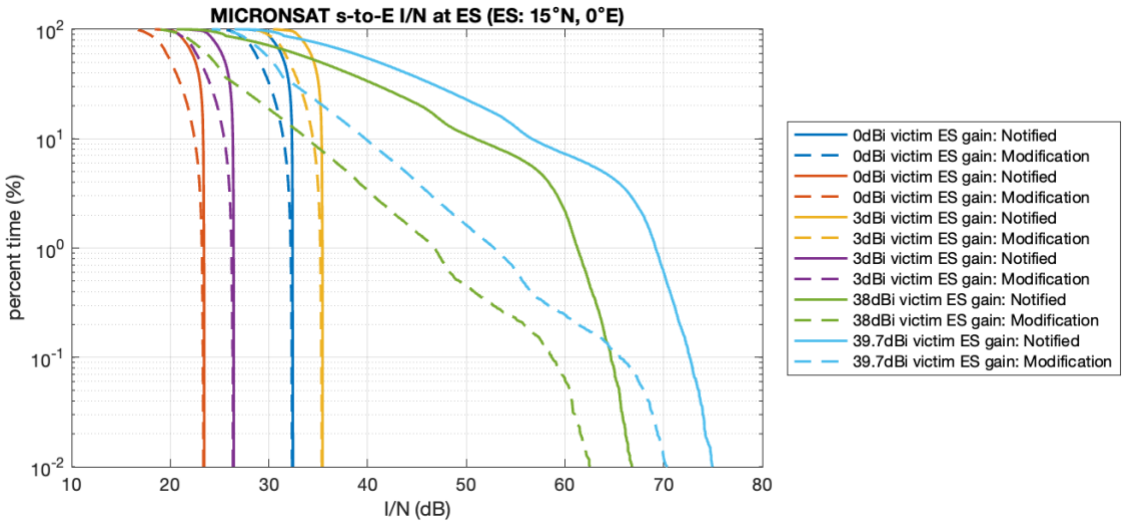

MCLSAT s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

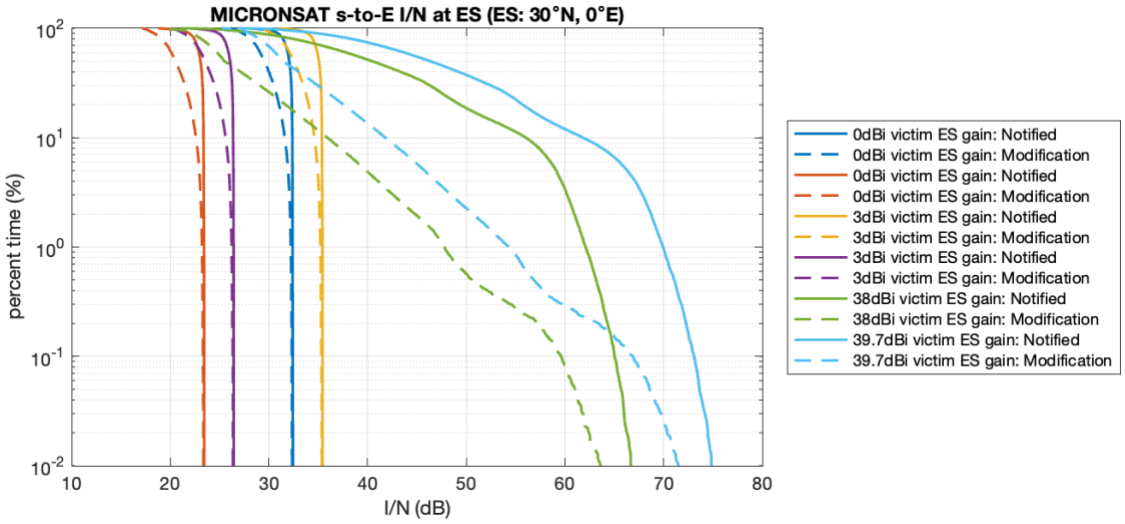

MCLSAT E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

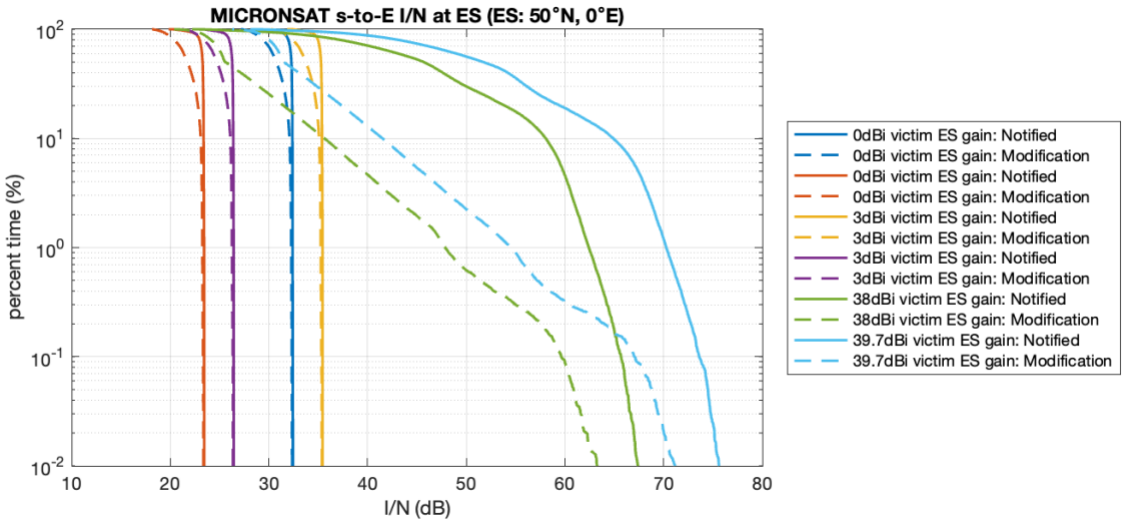

MCLSAT s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
-3dBi victim ES gain: Notified
-3dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
5dBi victim ES gain: Notified
5dBi victim ES gain: Modification

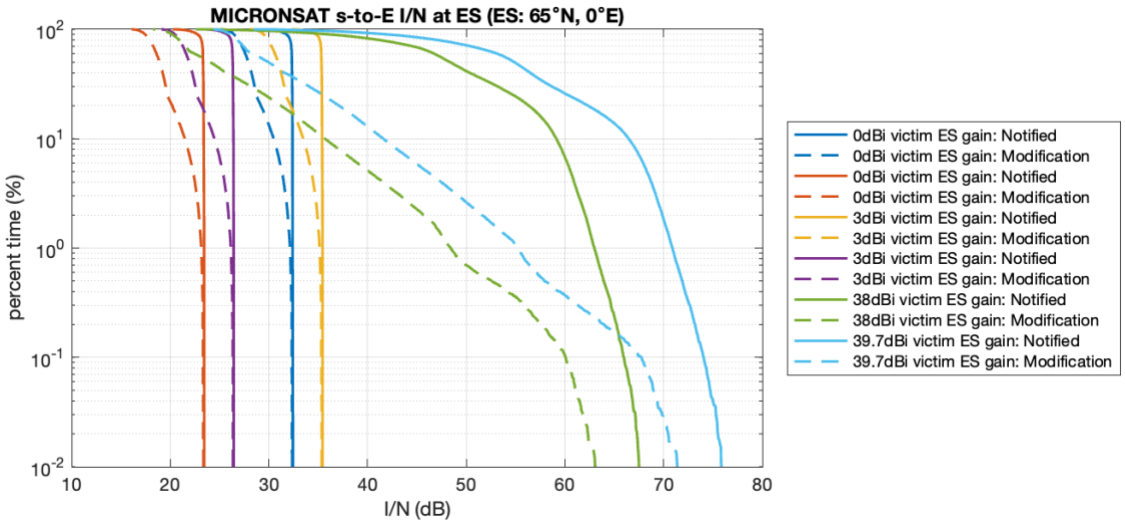

MCLSAT E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

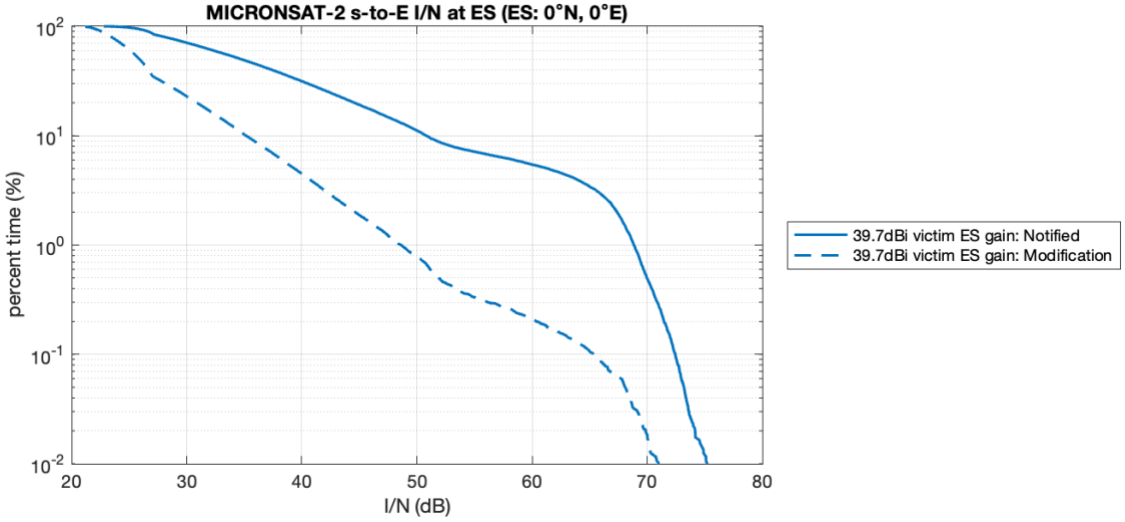

MICRONSAT s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
38dBi victim ES gain: Notified
38dBi victim ES gain: Modification
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

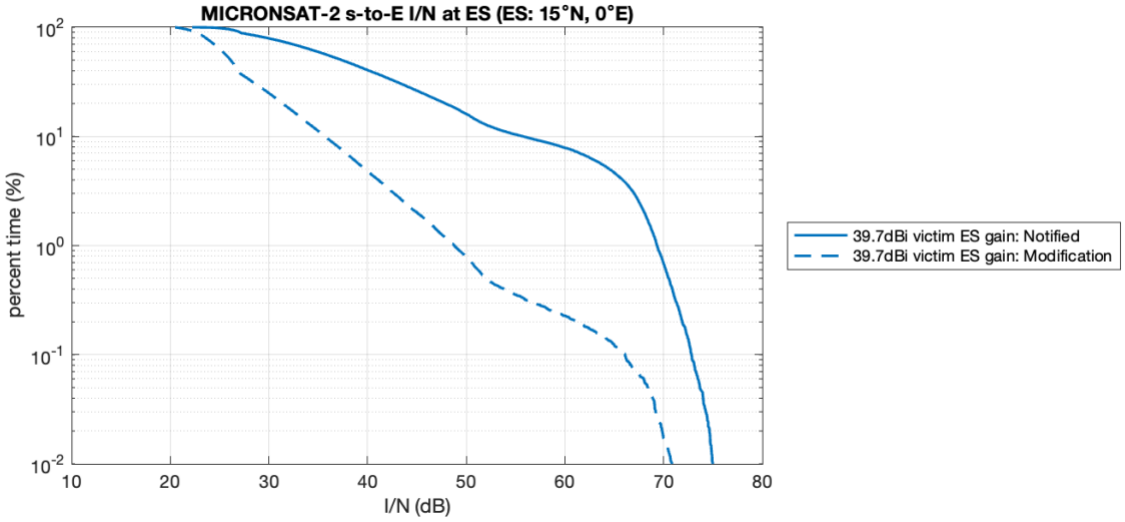

MICRONSAT s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
38dBi victim ES gain: Notified
38dBi victim ES gain: Modification
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

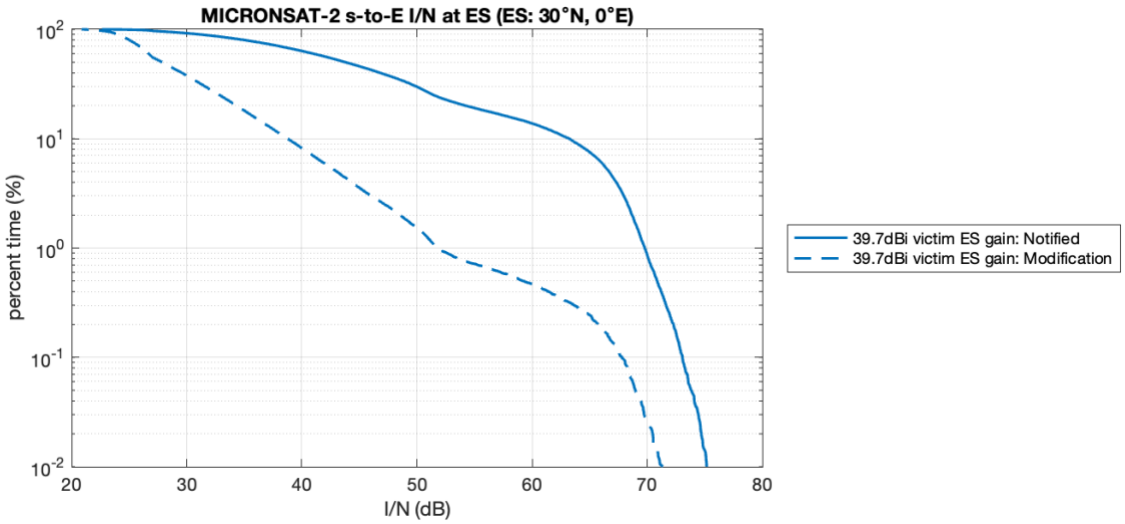

MICRONSAT s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
38dBi victim ES gain: Notified
38dBi victim ES gain: Modification
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

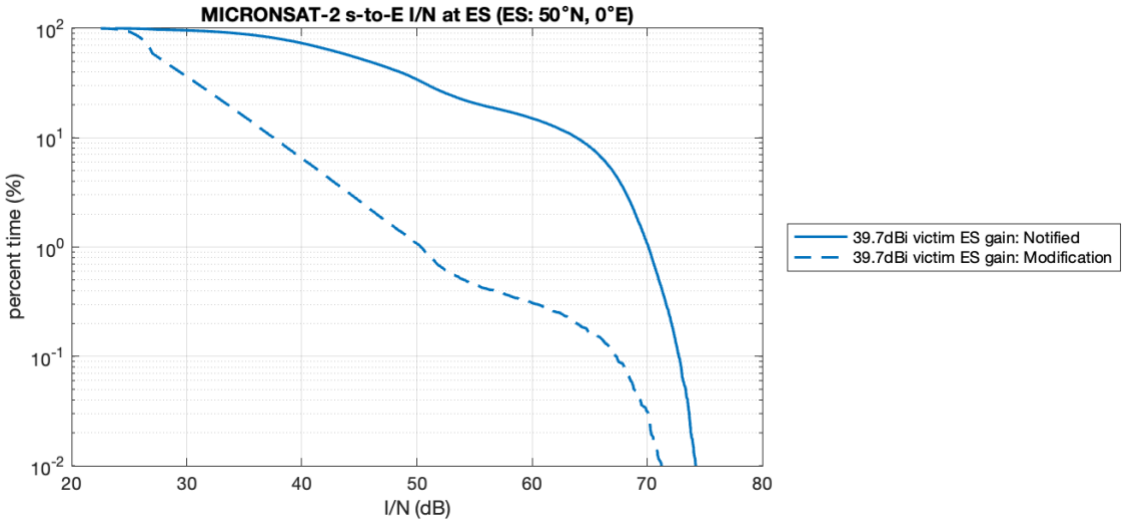

MICRONSAT s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
38dBi victim ES gain: Notified
38dBi victim ES gain: Modification
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

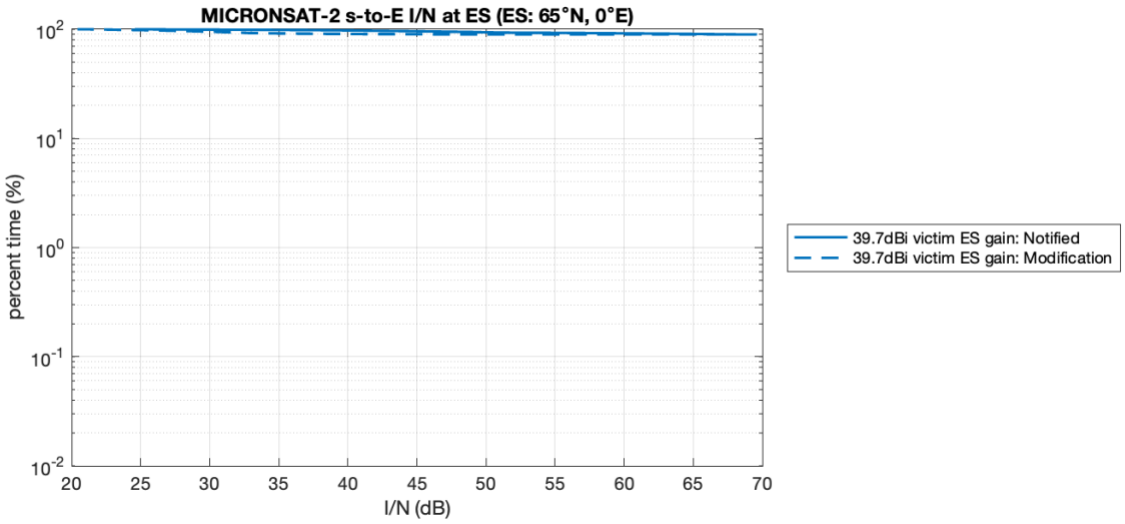

MICRONSAT s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
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38dBi victim ES gain: Modification
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

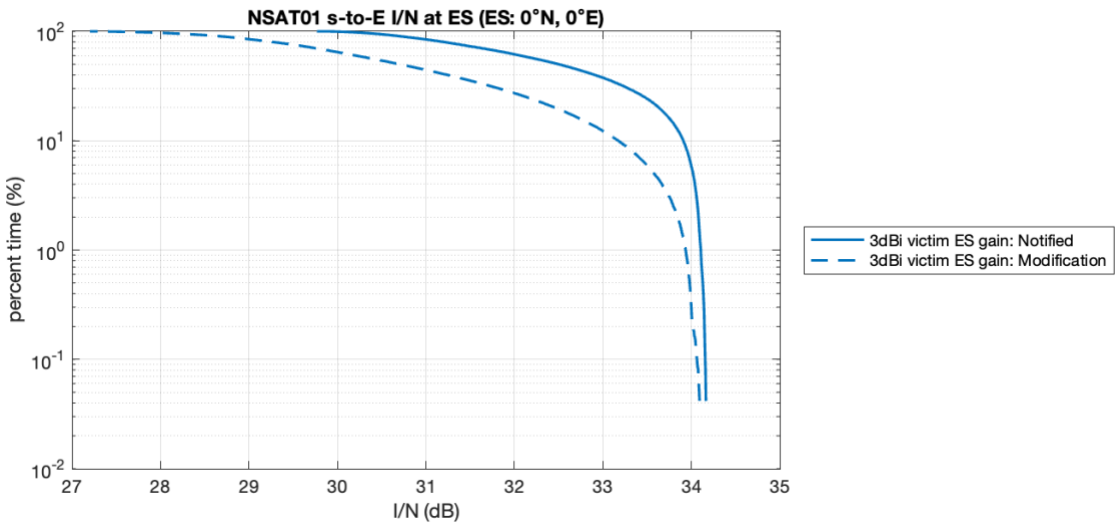

MICRONSAT-2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

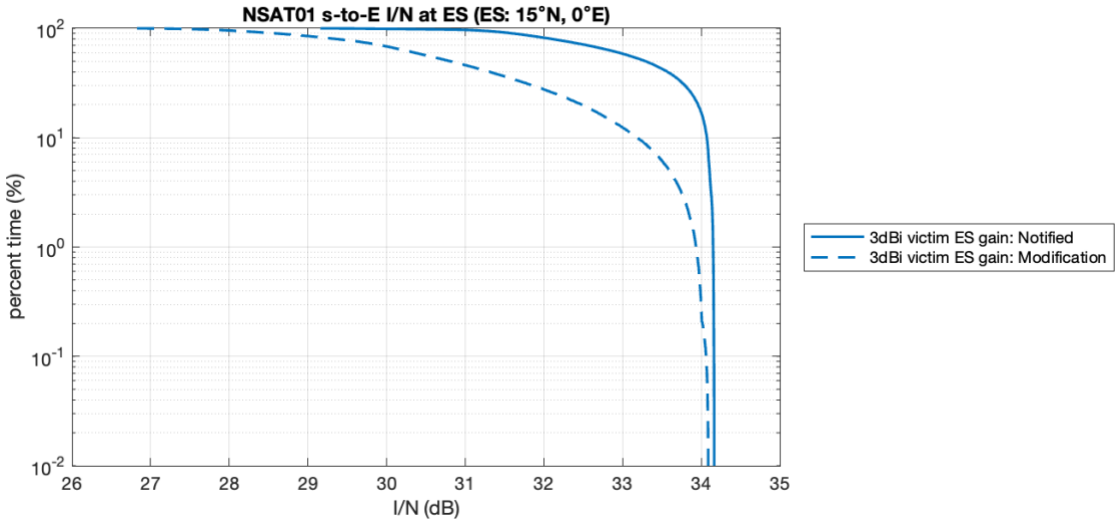

MICRONSAT-2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

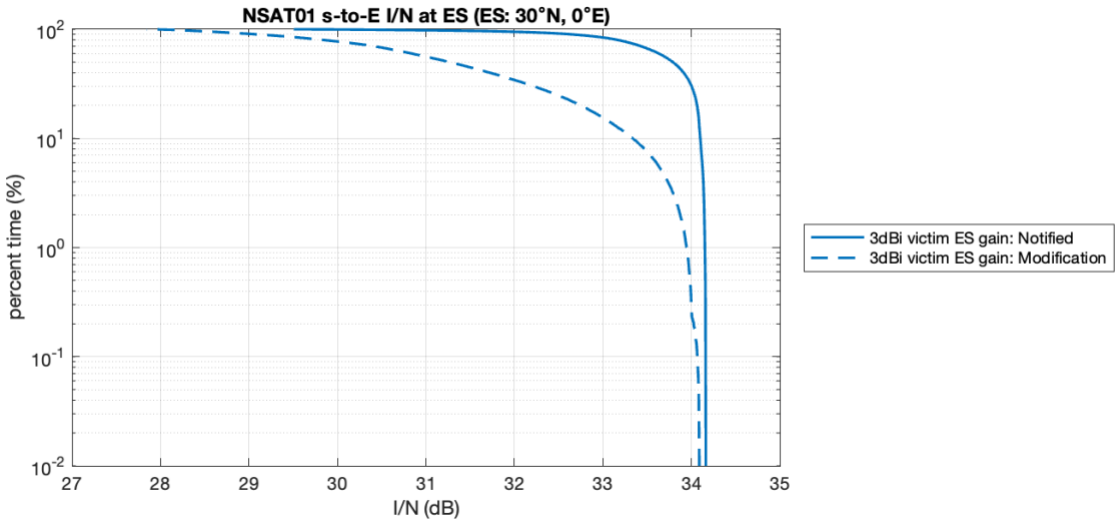

MICRONSAT-2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

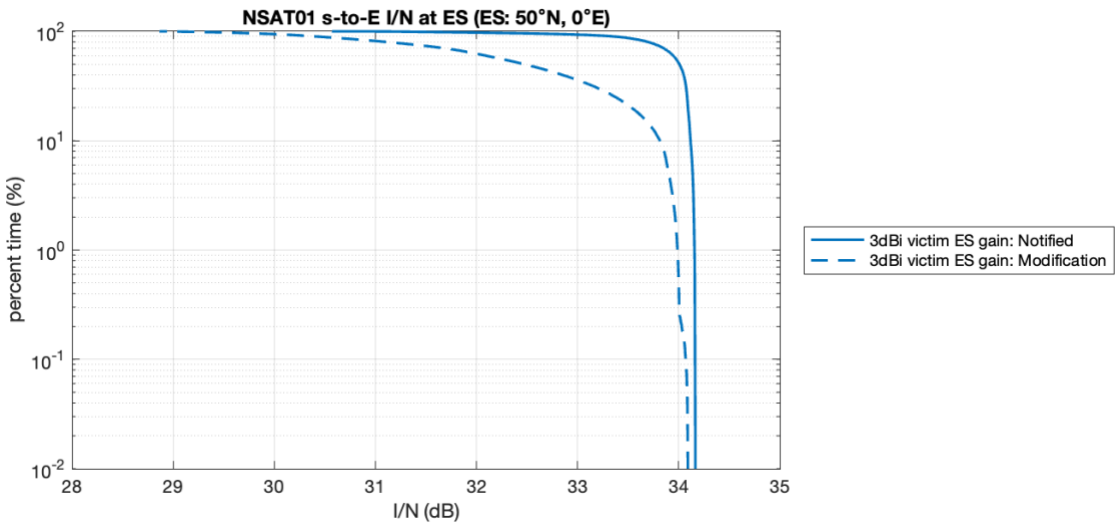

MICRONSAT-2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

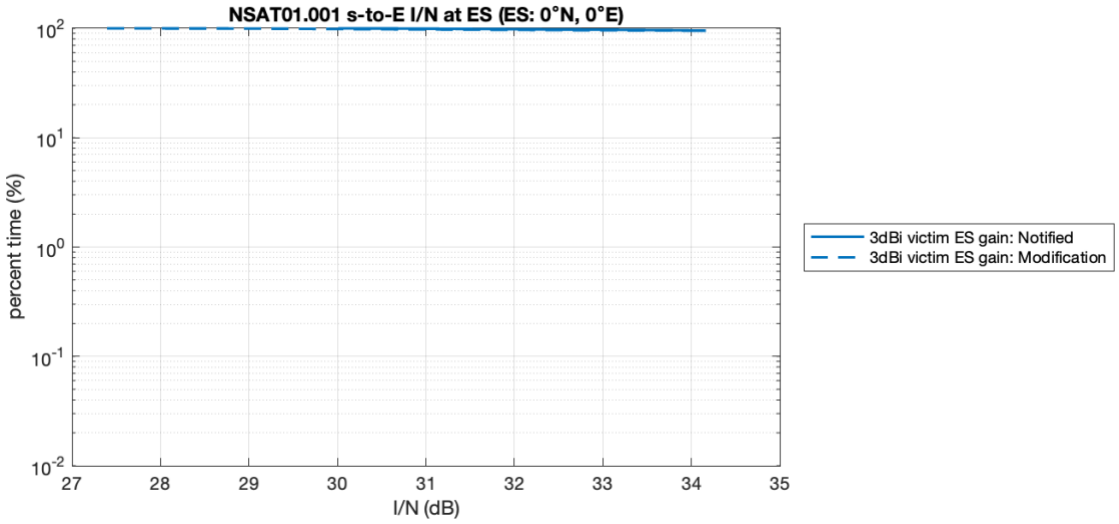

MICRONSAT-2 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
39.7dBi victim ES gain: Notified
39.7dBi victim ES gain: Modification

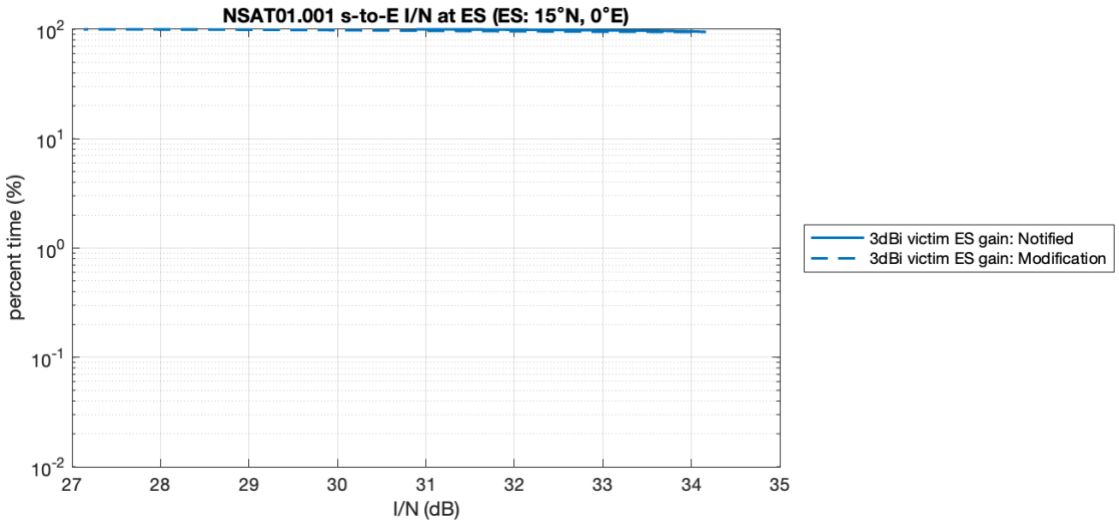

NSAT01 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

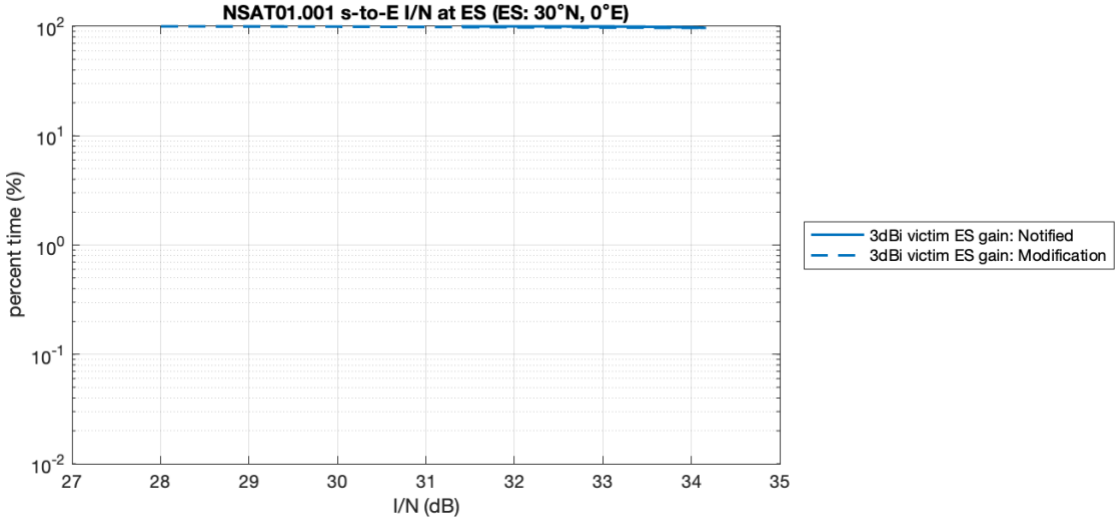

NSAT01 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

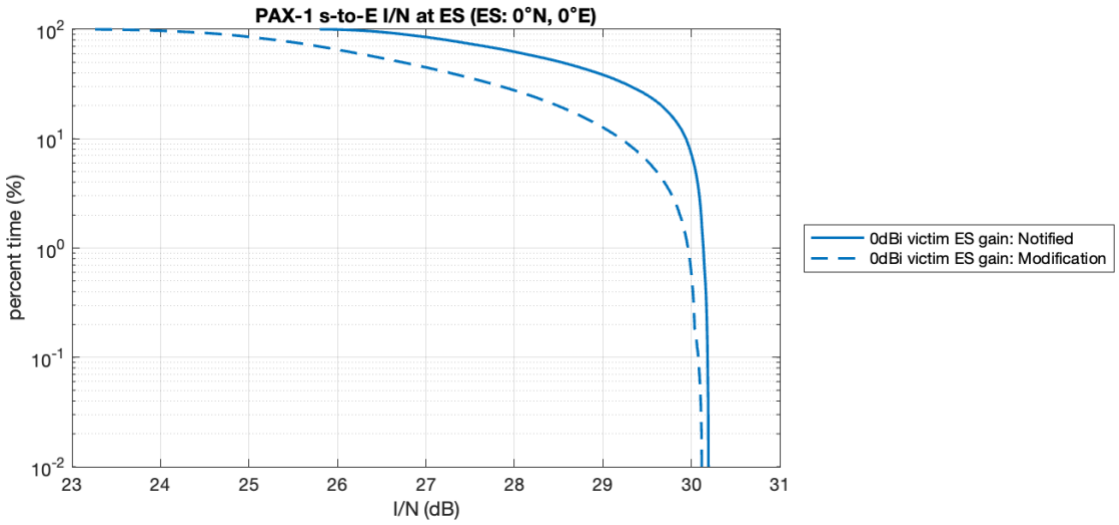

NSAT01 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

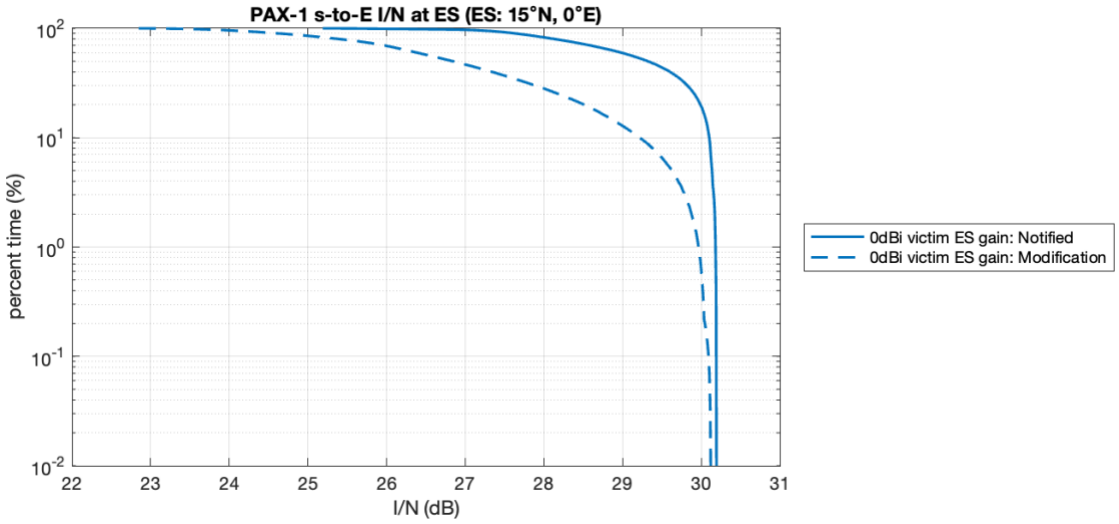

NSAT01 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

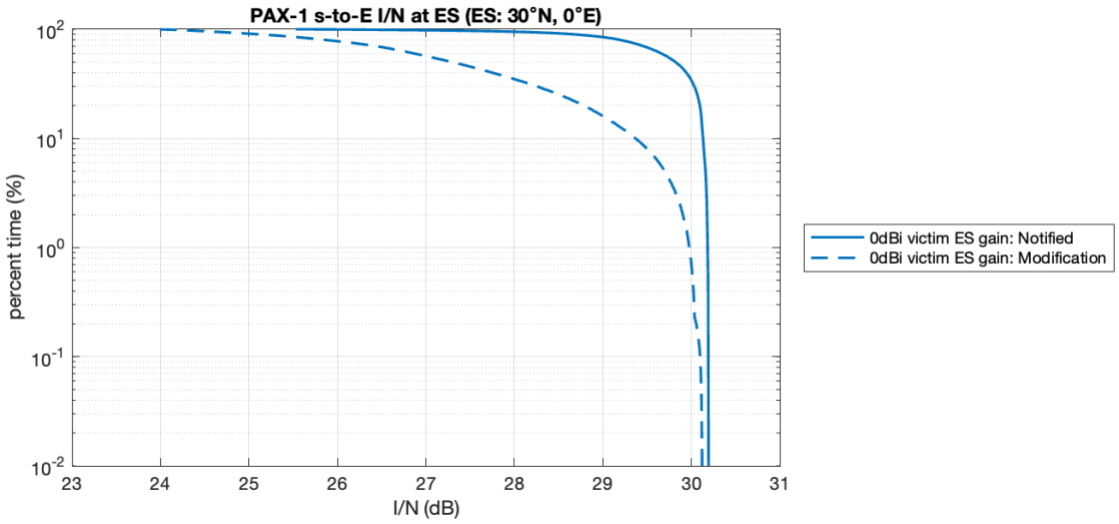

NSAT01.001 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

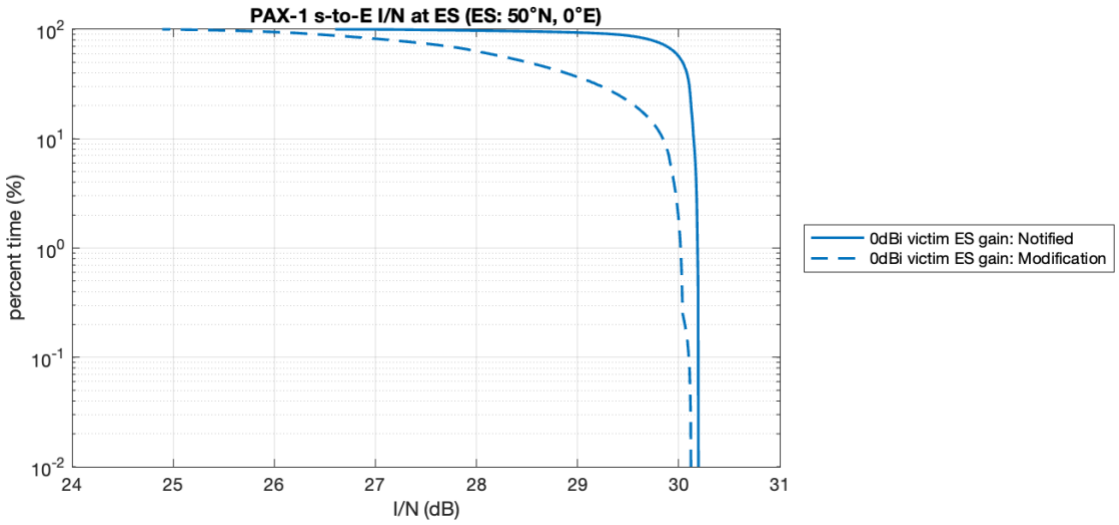

NSAT01.001 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

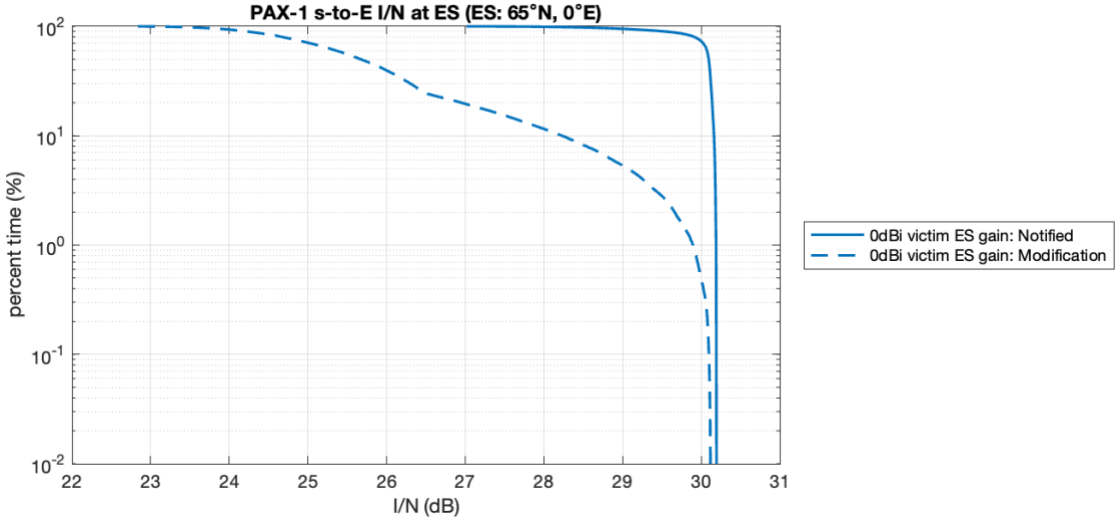

NSAT01.001 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification

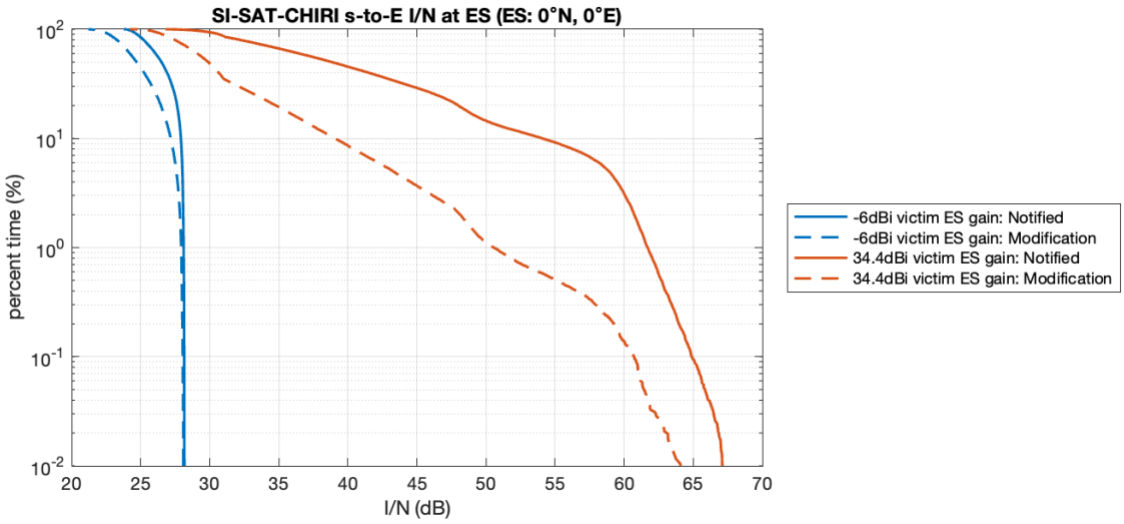

PAX-1 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

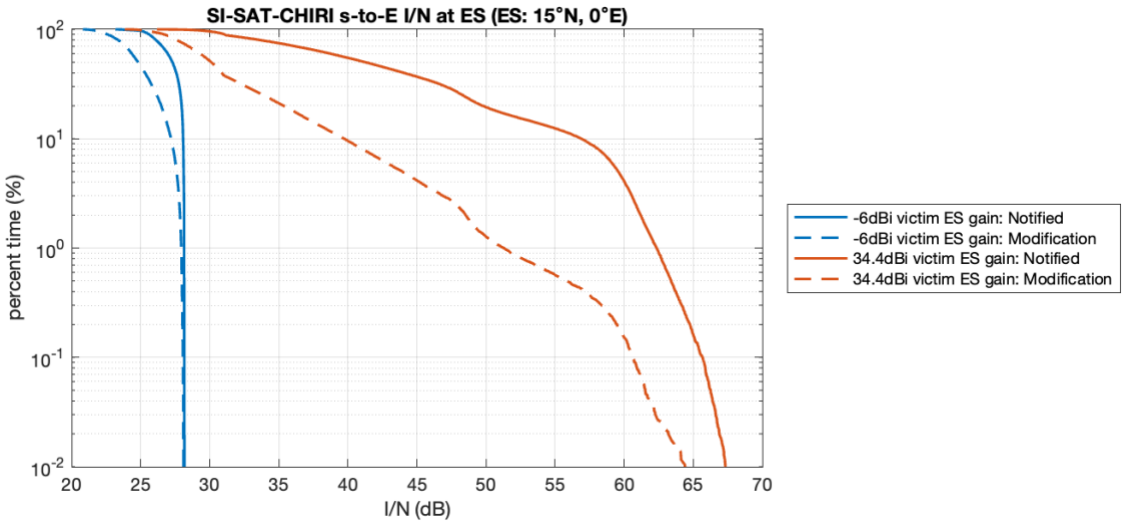

PAX-1 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

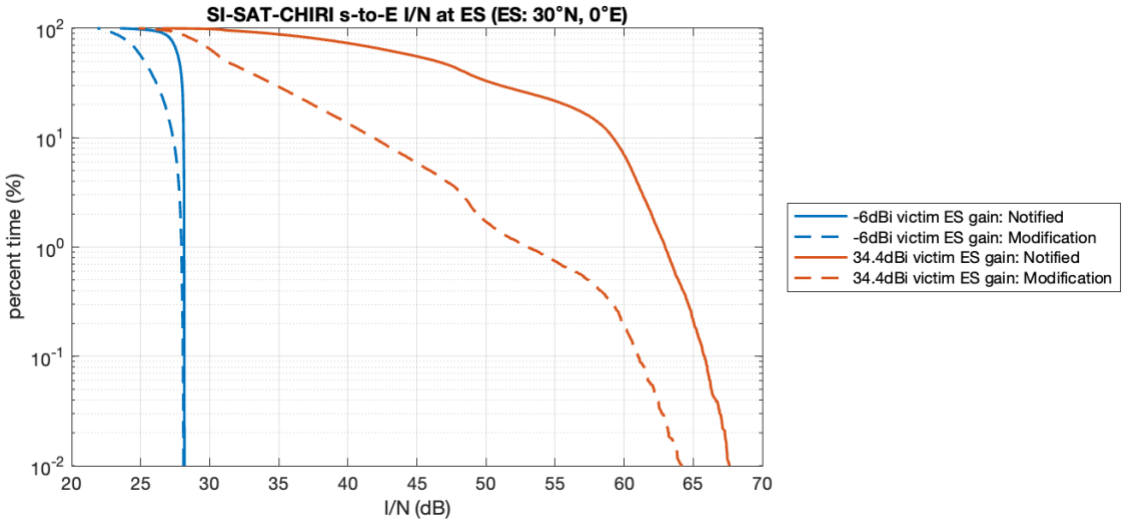

PAX-1 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

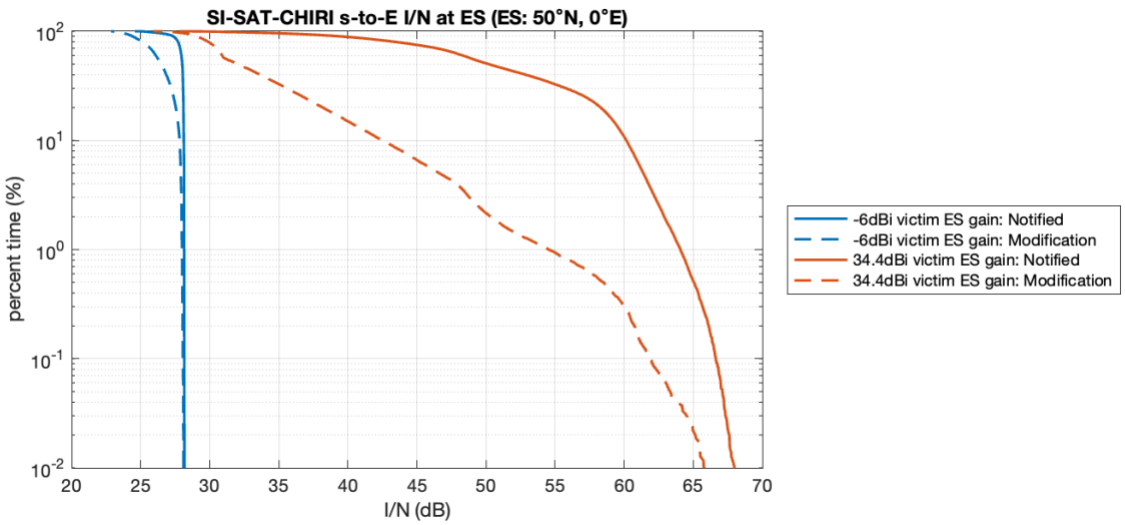

PAX-1 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

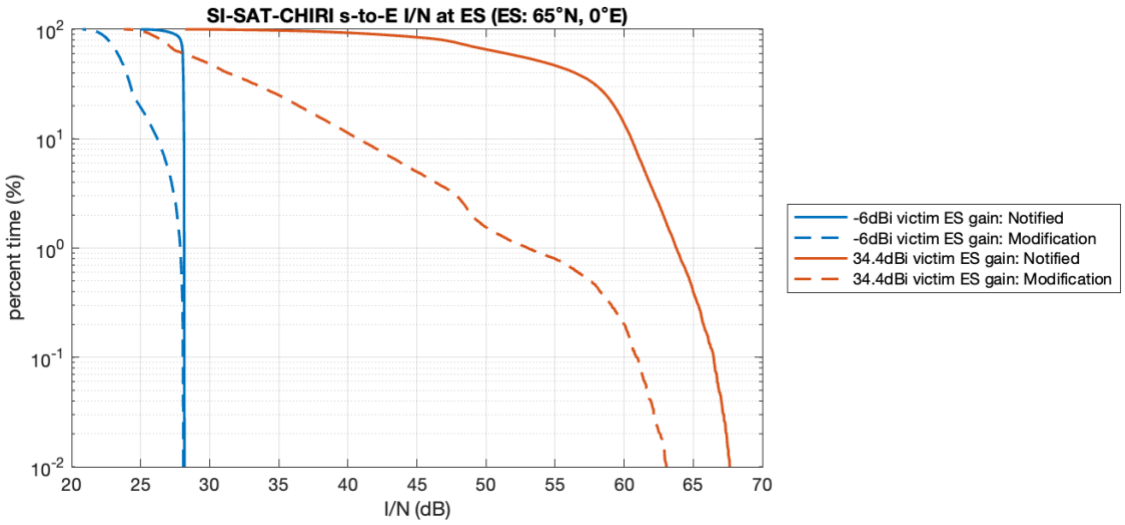

PAX-1 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification

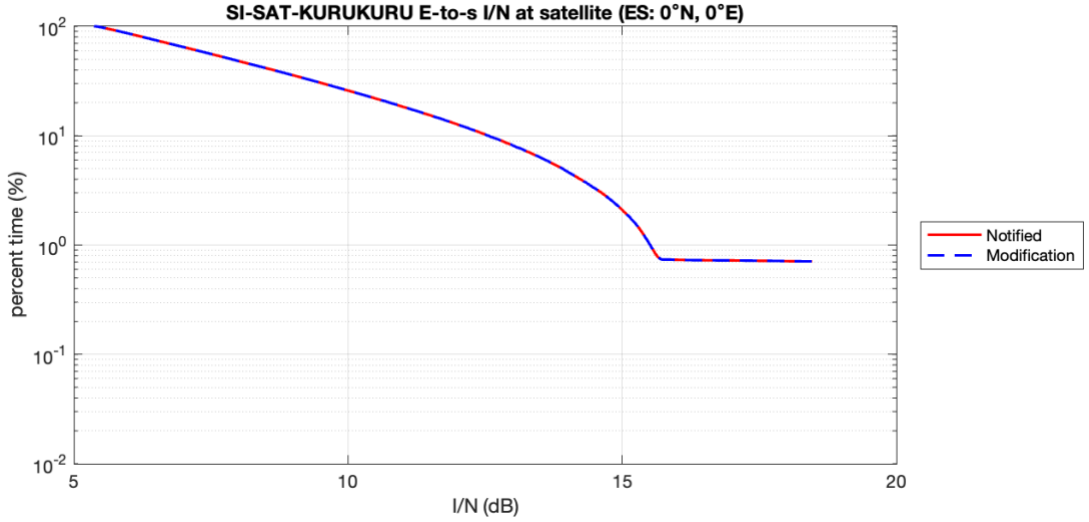

SI-SAT-CHIRI s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
-6dBi victim ES gain: Notified
-6dBi victim ES gain: Modification
34.4dBi victim ES gain: Notified
34.4dBi victim ES gain: Modification

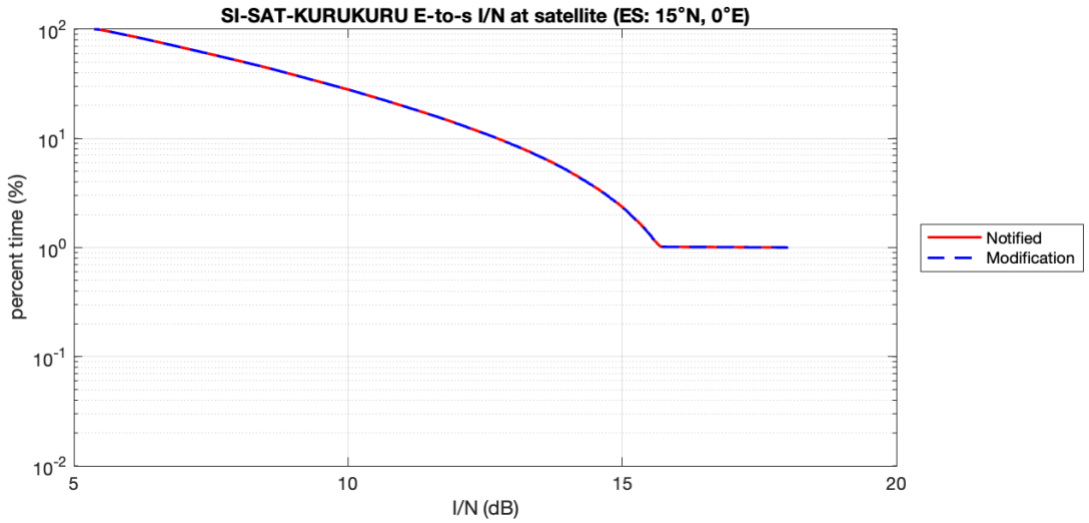

SI-SAT-CHIRI s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
-6dBi victim ES gain: Notified
-6dBi victim ES gain: Modification
34.4dBi victim ES gain: Notified
34.4dBi victim ES gain: Modification

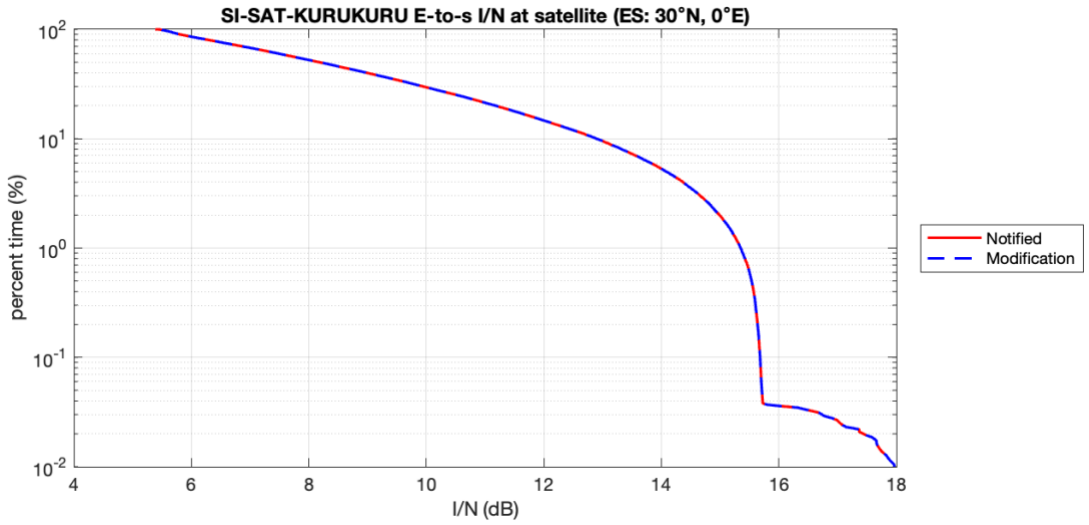

SI-SAT-CHIRI s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
-6dBi victim ES gain: Notified
-6dBi victim ES gain: Modification
34.4dBi victim ES gain: Notified
34.4dBi victim ES gain: Modification

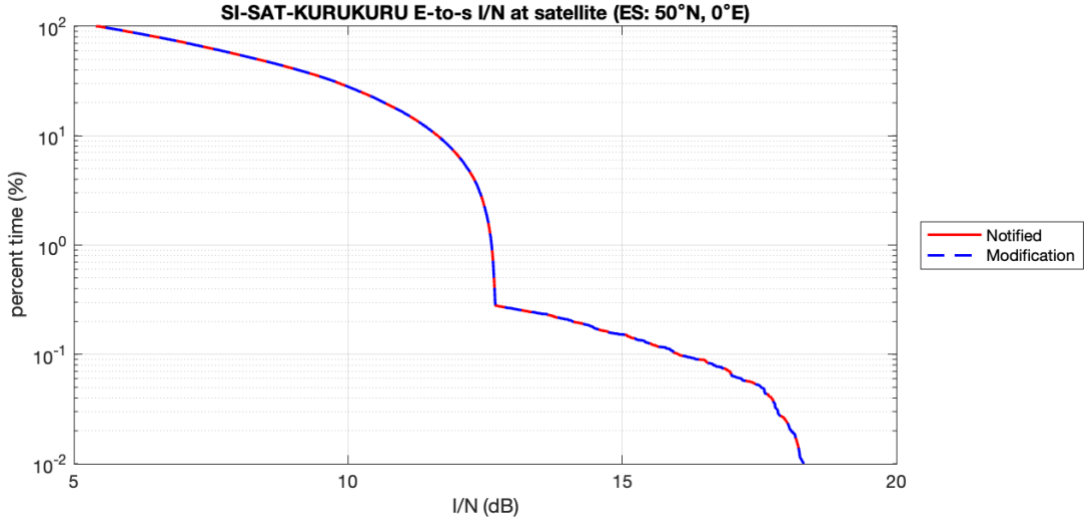

SI-SAT-CHIRI s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
-6dBi victim ES gain: Notified
-6dBi victim ES gain: Modification
34.4dBi victim ES gain: Notified
34.4dBi victim ES gain: Modification

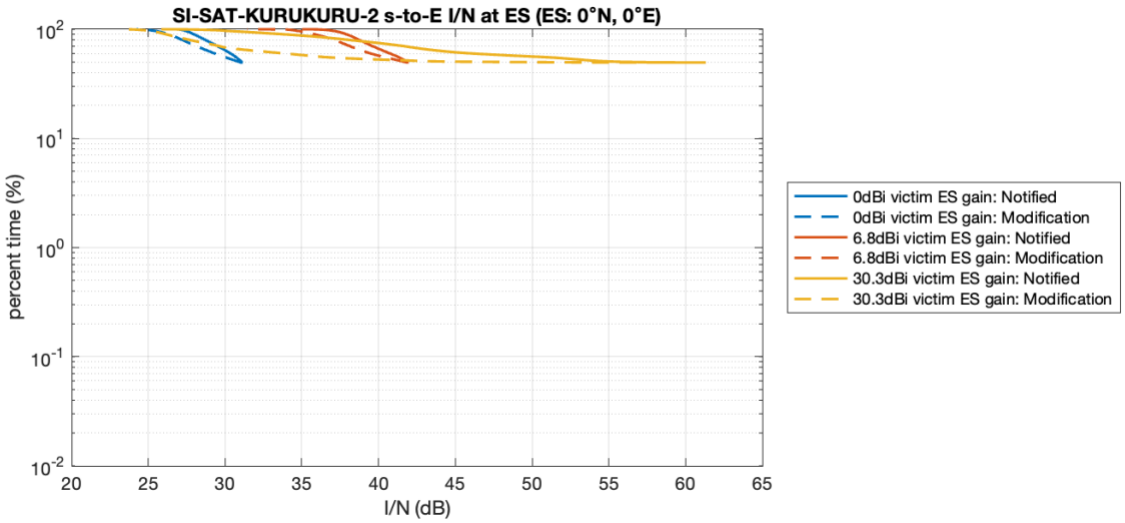

SI-SAT-CHIRI s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
-6dBi victim ES gain: Notified
-6dBi victim ES gain: Modification
34.4dBi victim ES gain: Notified
34.4dBi victim ES gain: Modification

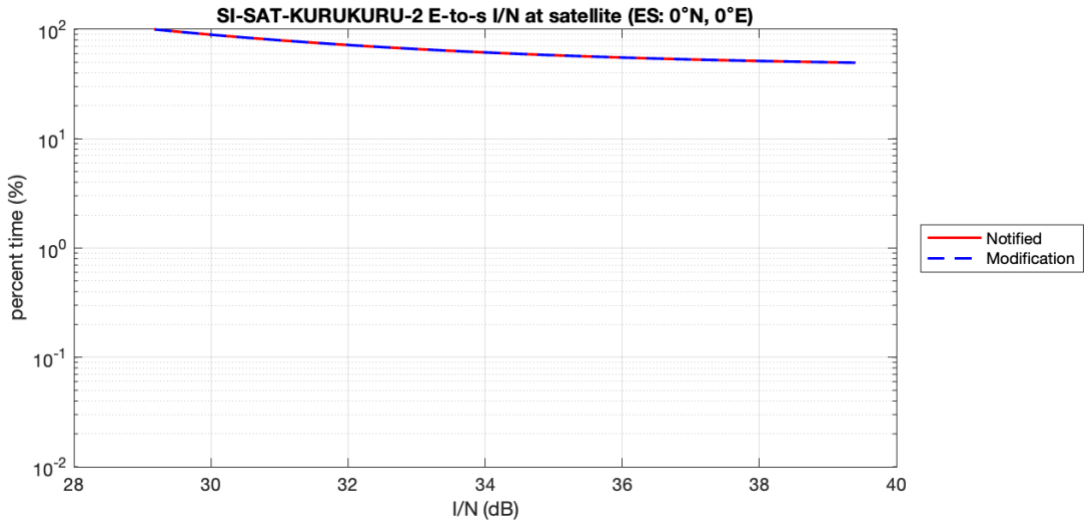

SI-SAT-KURUKURU E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

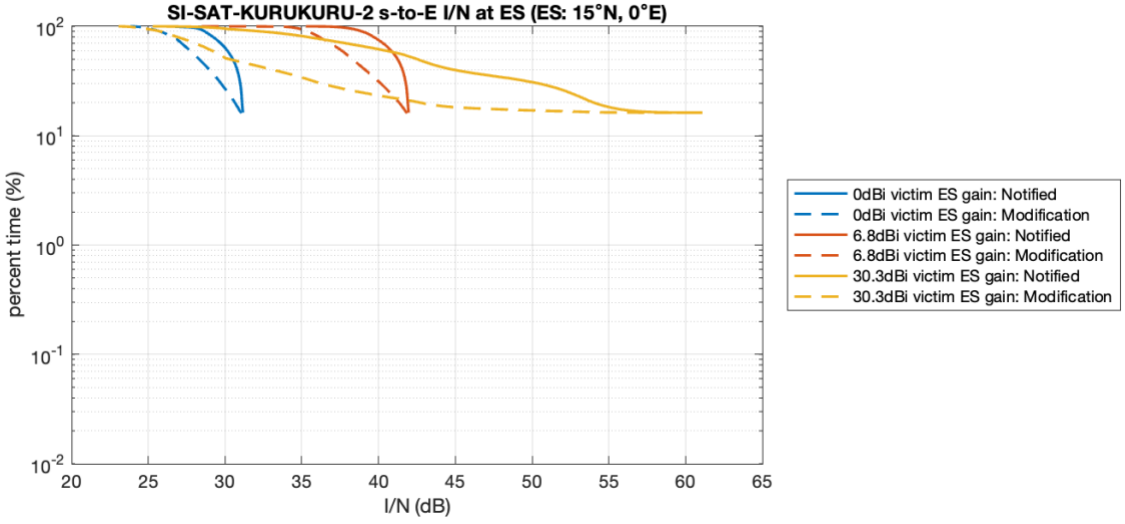

SI-SAT-KURUKURU E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

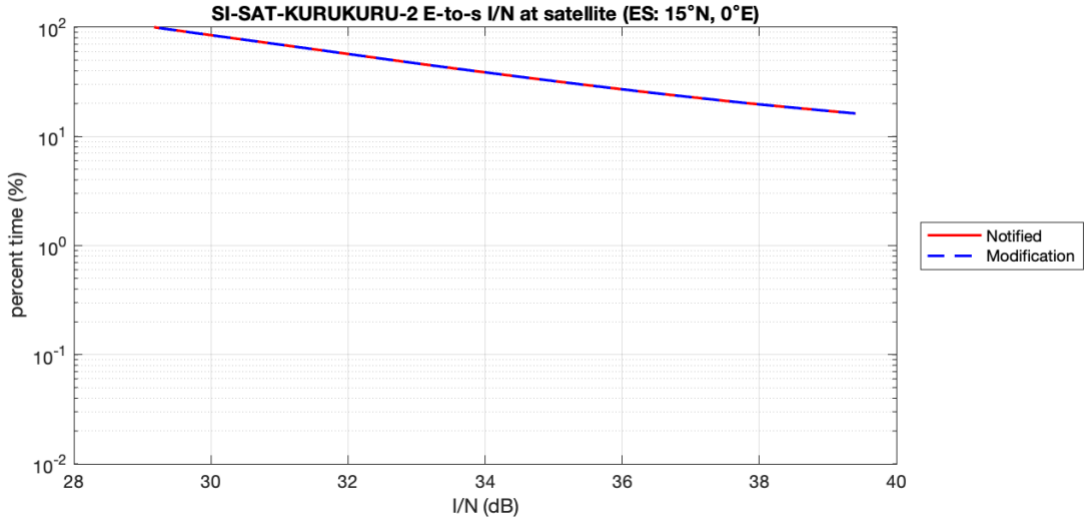

SI-SAT-KURUKURU E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

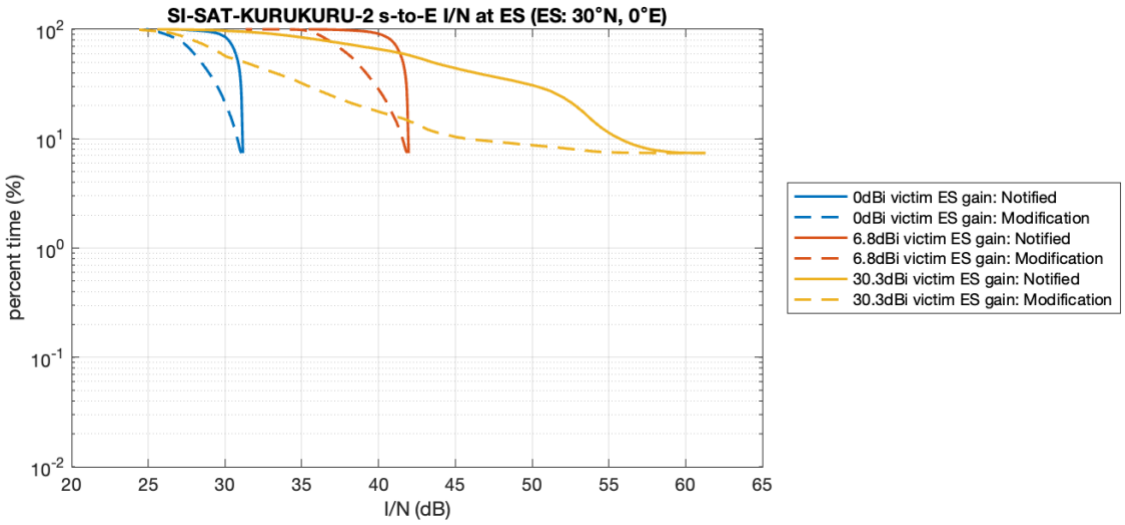

SI-SAT-KURUKURU E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

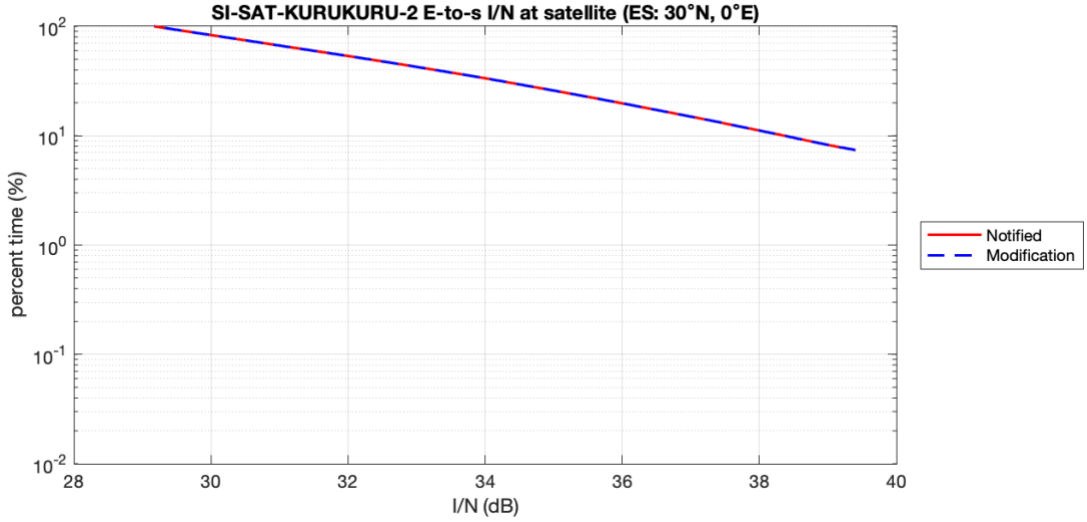

SI-SAT-KURUKURU-2 s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
6.8dBi victim ES gain: Notified
6.8dBi victim ES gain: Modification
30.3dBi victim ES gain: Notified
30.3dBi victim ES gain: Modification

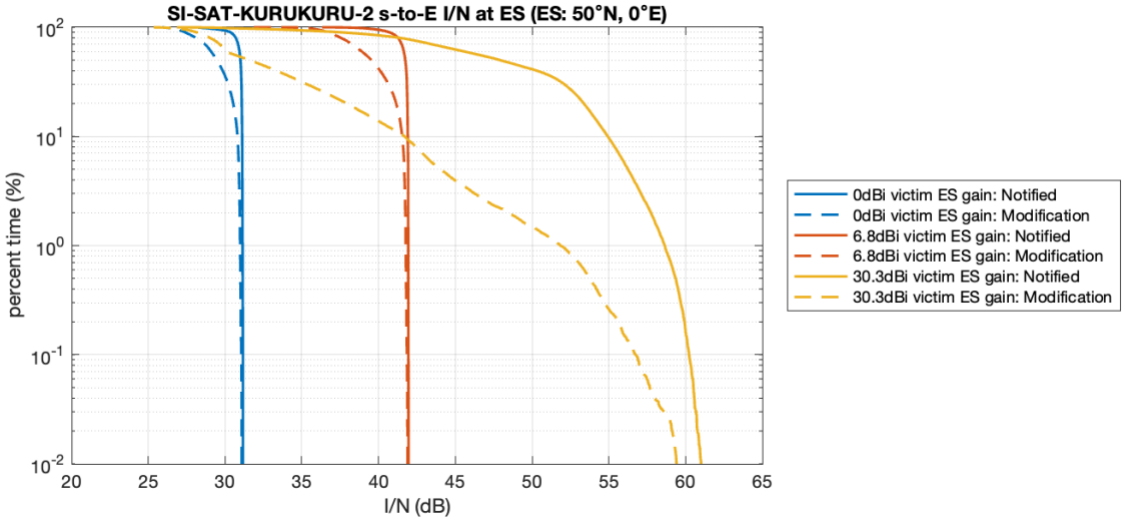

SI-SAT-KURUKURU-2 E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

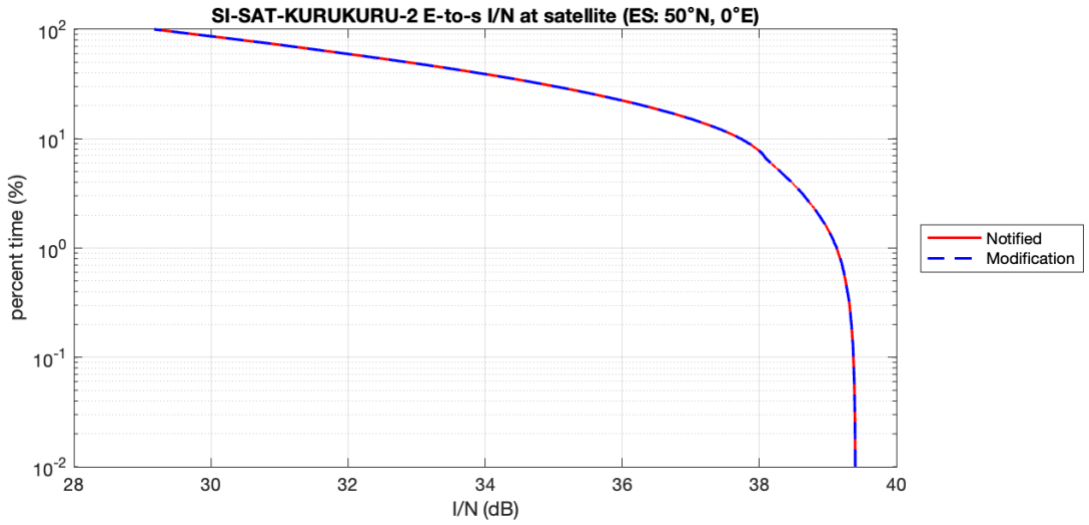

SI-SAT-KURUKURU-2 s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
6.8dBi victim ES gain: Notified
6.8dBi victim ES gain: Modification
30.3dBi victim ES gain: Notified
30.3dBi victim ES gain: Modification

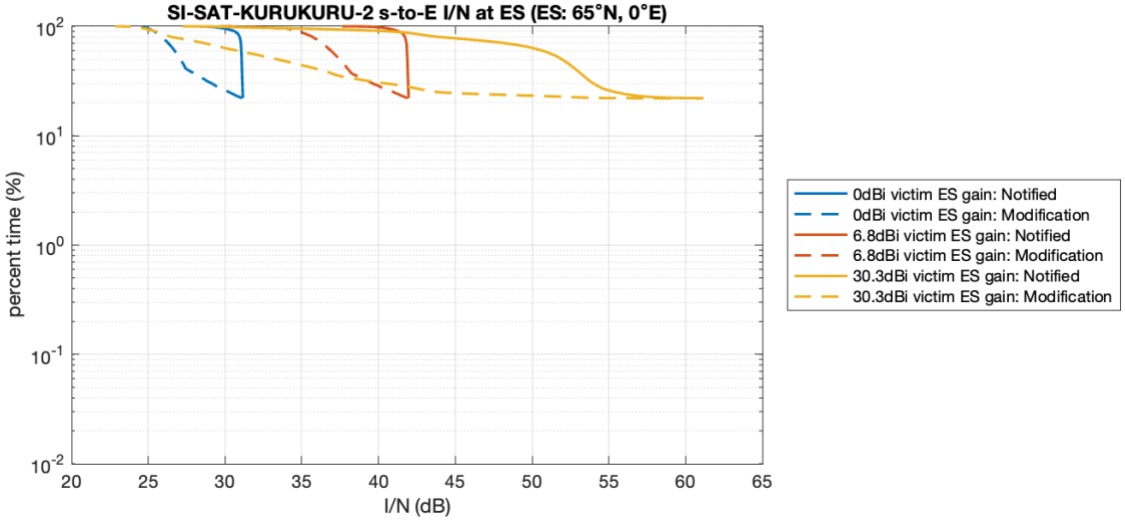

SI-SAT-KURUKURU-2 E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

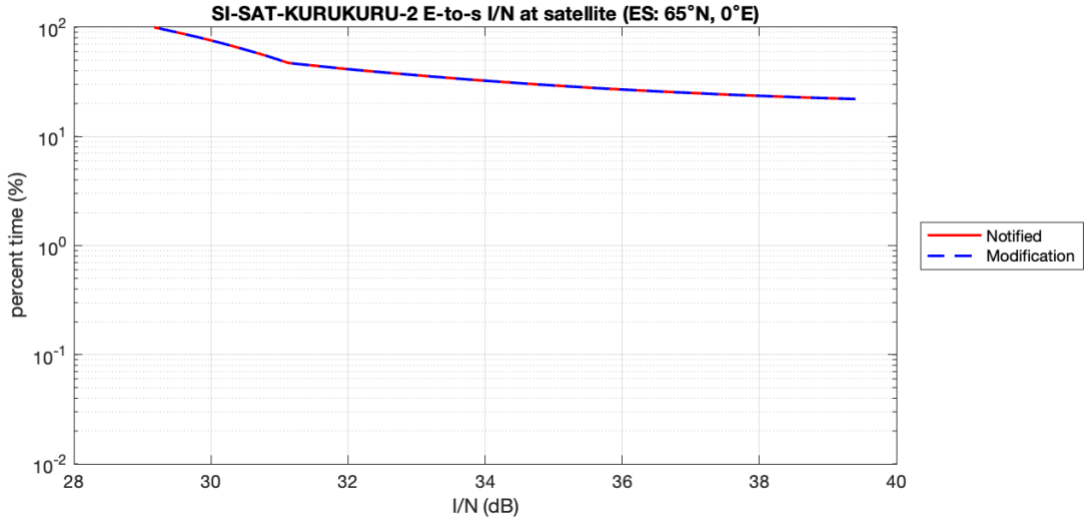

SI-SAT-KURUKURU-2 s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
6.8dBi victim ES gain: Notified
6.8dBi victim ES gain: Modification
30.3dBi victim ES gain: Notified
30.3dBi victim ES gain: Modification

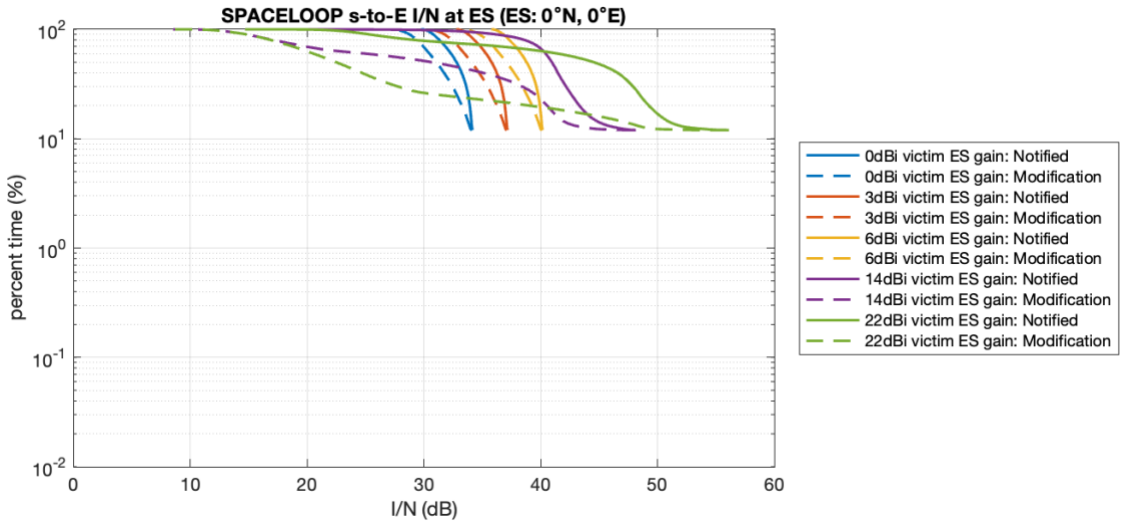

SI-SAT-KURUKURU-2 E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

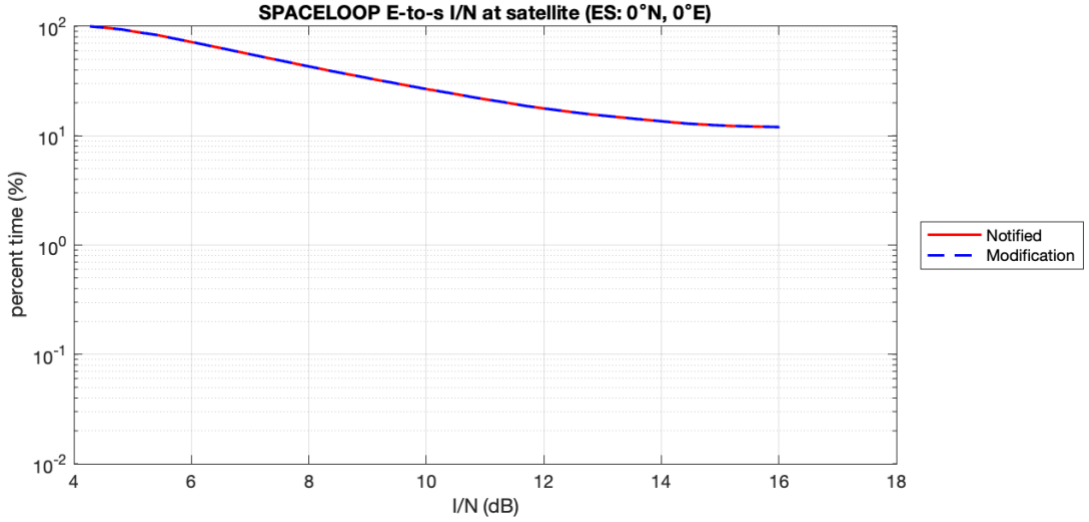

SI-SAT-KURUKURU-2 s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
6.8dBi victim ES gain: Notified
6.8dBi victim ES gain: Modification
30.3dBi victim ES gain: Notified
30.3dBi victim ES gain: Modification

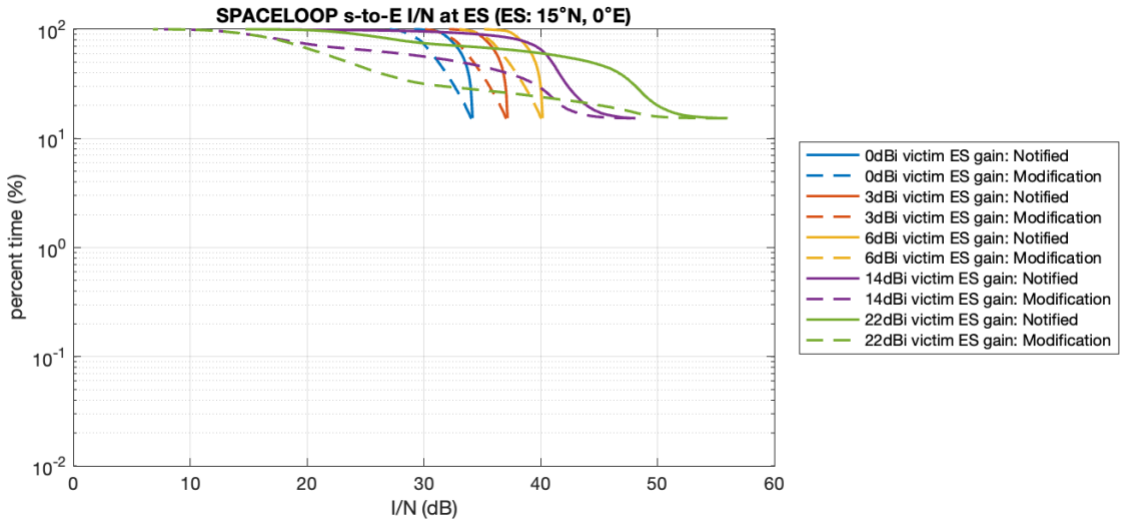

SI-SAT-KURUKURU-2 E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

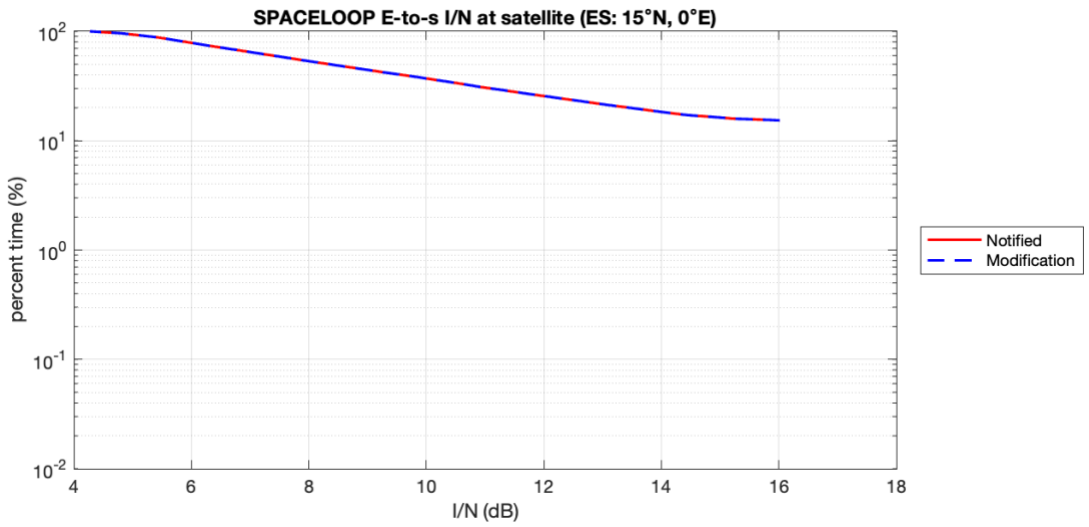

SI-SAT-KURUKURU-2 s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
6.8dBi victim ES gain: Notified
6.8dBi victim ES gain: Modification
30.3dBi victim ES gain: Notified
30.3dBi victim ES gain: Modification

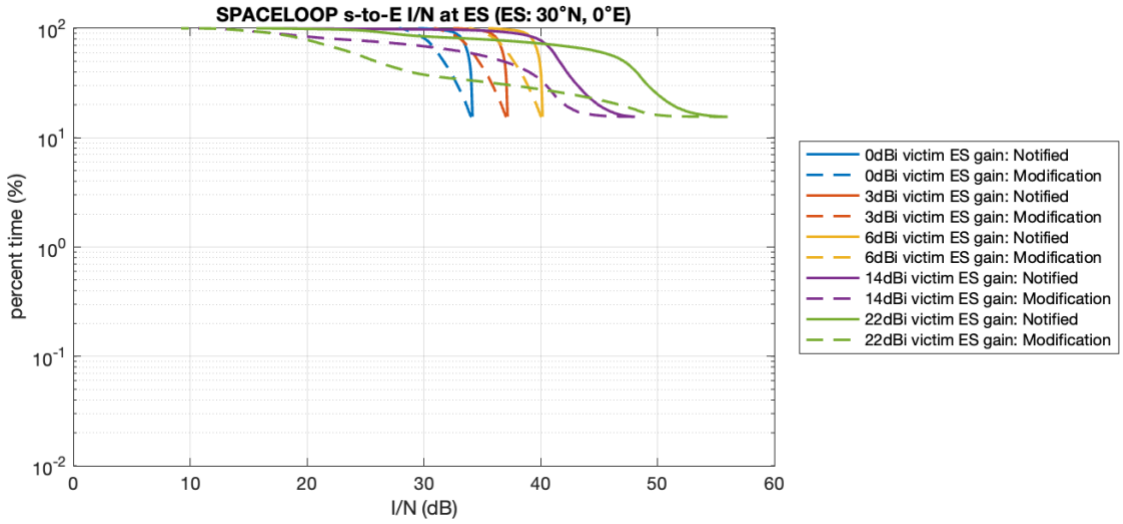

SI-SAT-KURUKURU-2 E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

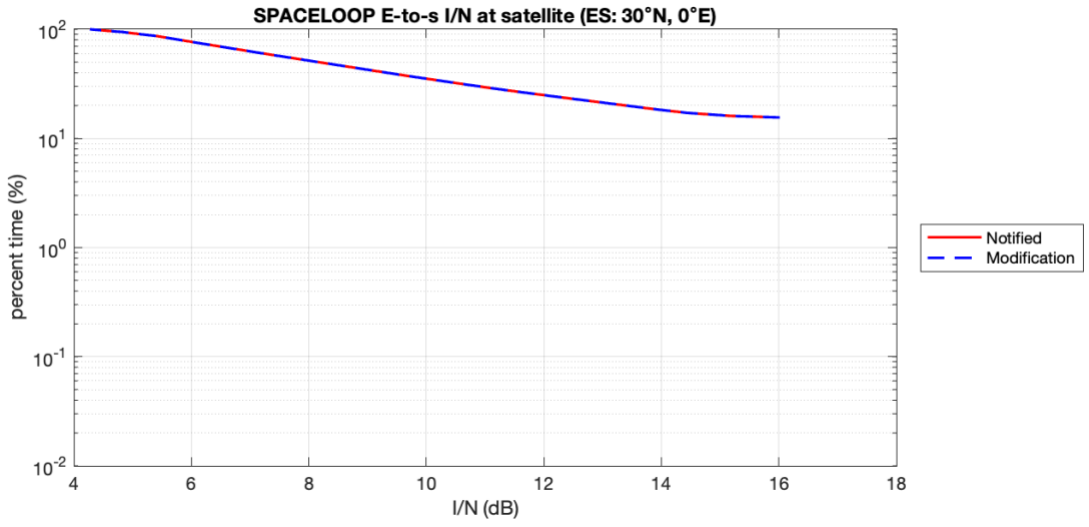

SPACELOOP s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification
14dBi victim ES gain: Notified
14dBi victim ES gain: Modification
22dBi victim ES gain: Notified
22dBi victim ES gain: Modification

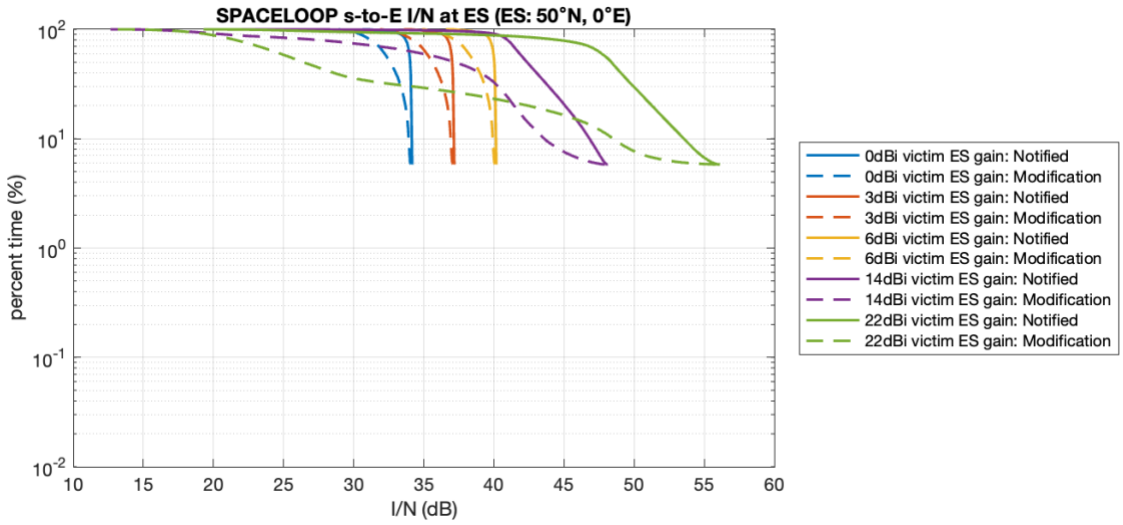

SPACELOOP E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

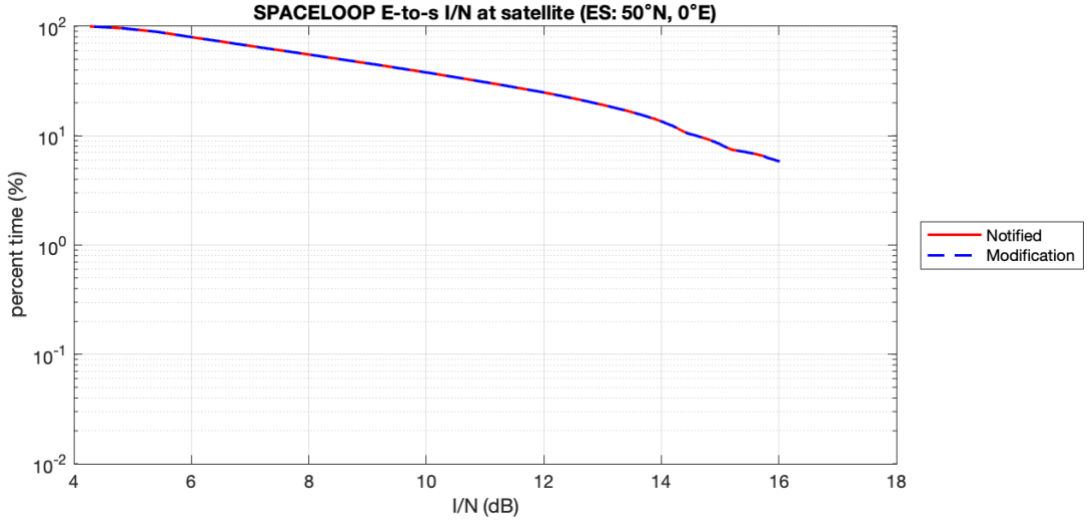

SPACELOOP s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification
14dBi victim ES gain: Notified
14dBi victim ES gain: Modification
22dBi victim ES gain: Notified
22dBi victim ES gain: Modification

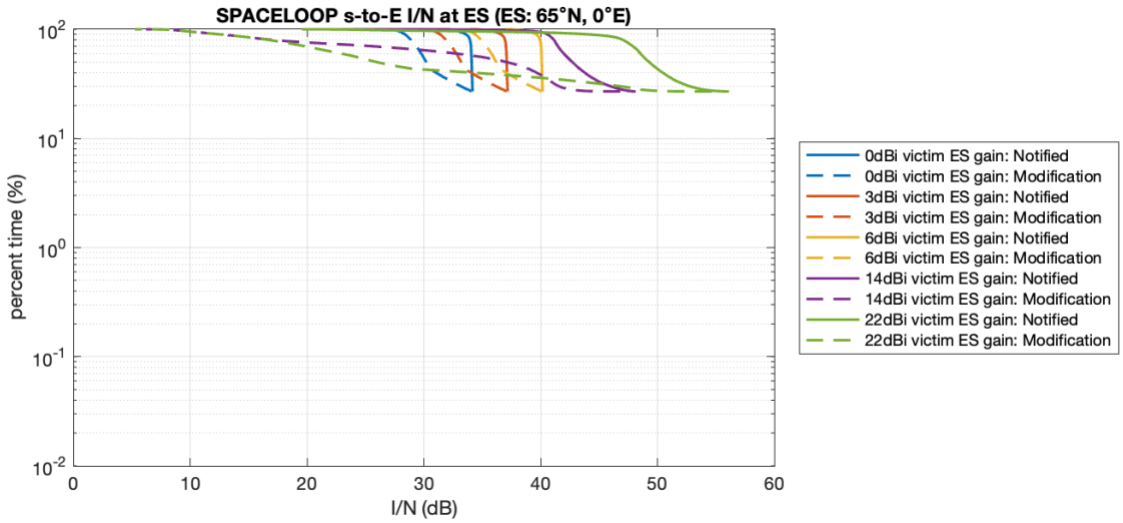

SPACELOOP E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

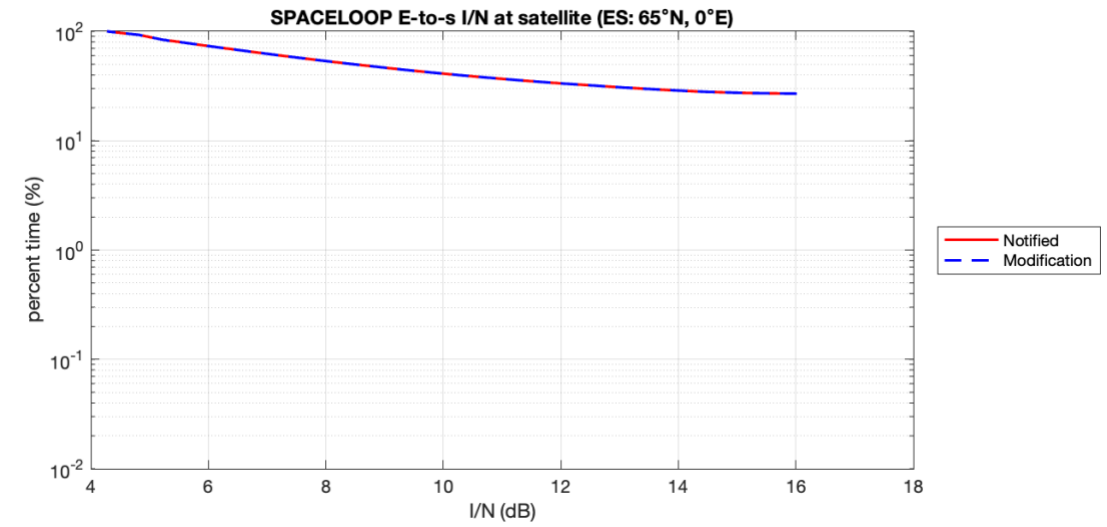

SPACELOOP s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification
14dBi victim ES gain: Notified
14dBi victim ES gain: Modification
22dBi victim ES gain: Notified
22dBi victim ES gain: Modification

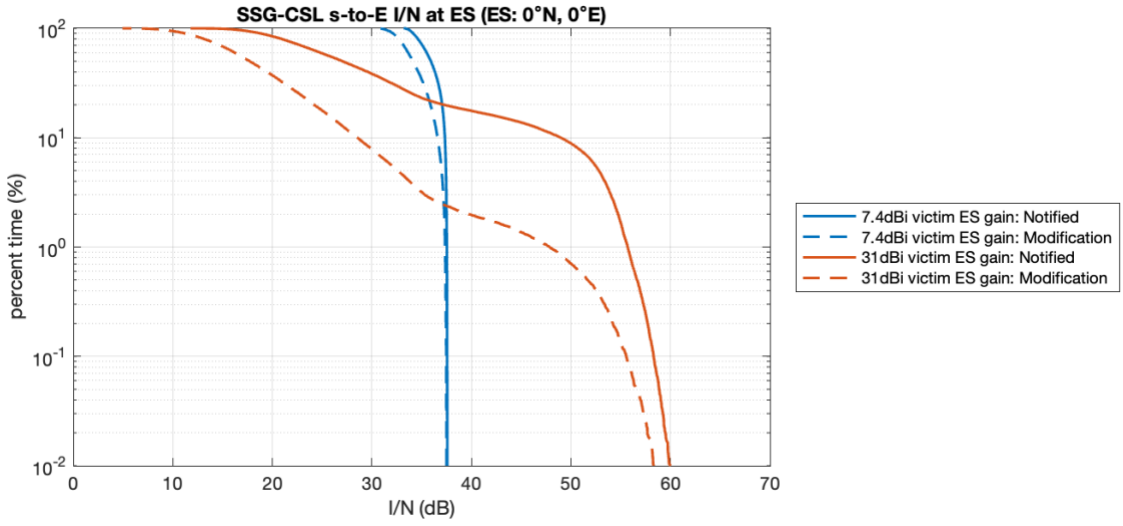

SPACELOOP E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

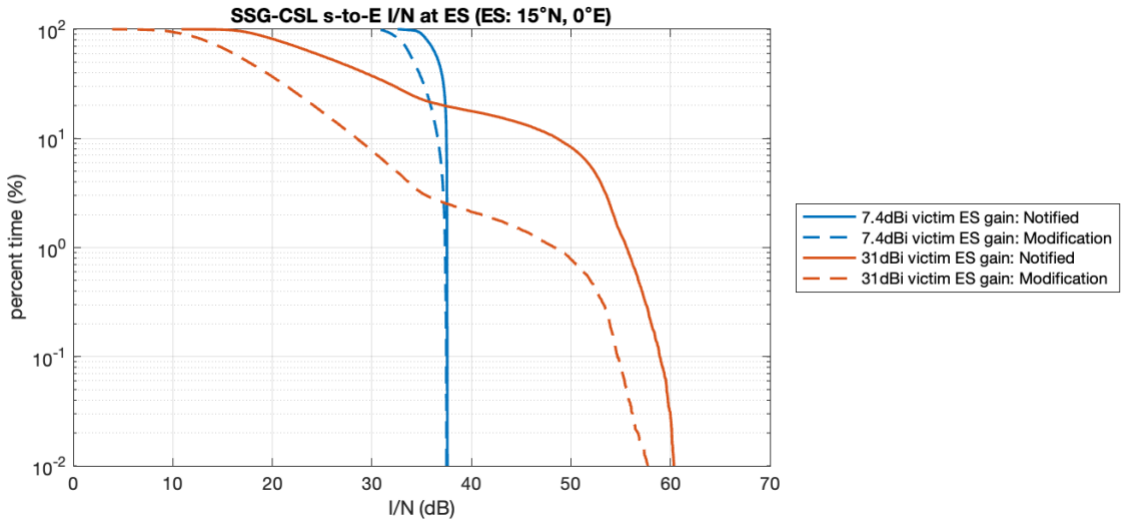

SPACELOOP s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification
14dBi victim ES gain: Notified
14dBi victim ES gain: Modification
22dBi victim ES gain: Notified
22dBi victim ES gain: Modification

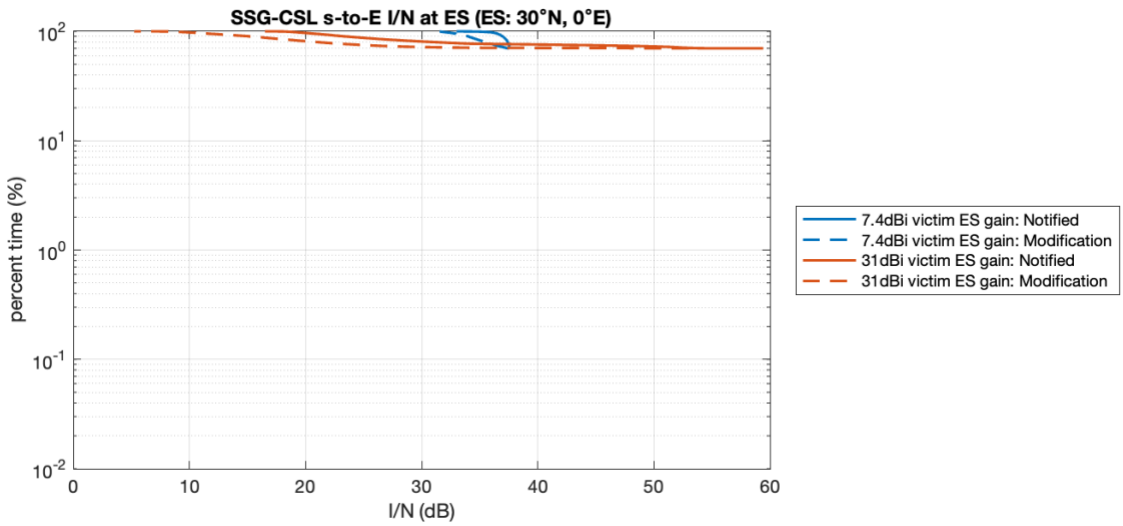

SPACELOOP E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

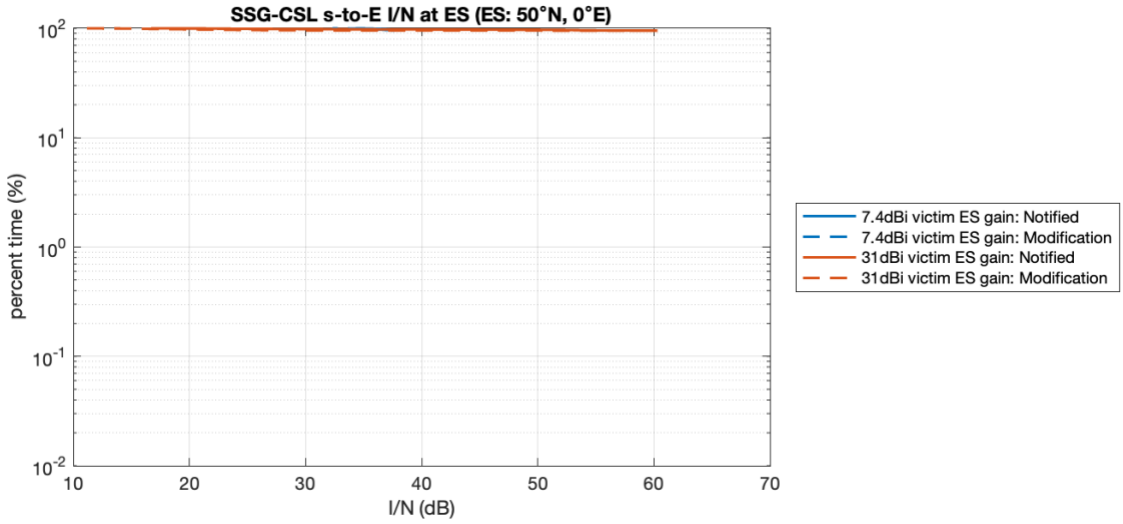

SPACELOOP s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
0dBi victim ES gain: Notified
0dBi victim ES gain: Modification
3dBi victim ES gain: Notified
3dBi victim ES gain: Modification
6dBi victim ES gain: Notified
6dBi victim ES gain: Modification
14dBi victim ES gain: Notified
14dBi victim ES gain: Modification
22dBi victim ES gain: Notified
22dBi victim ES gain: Modification

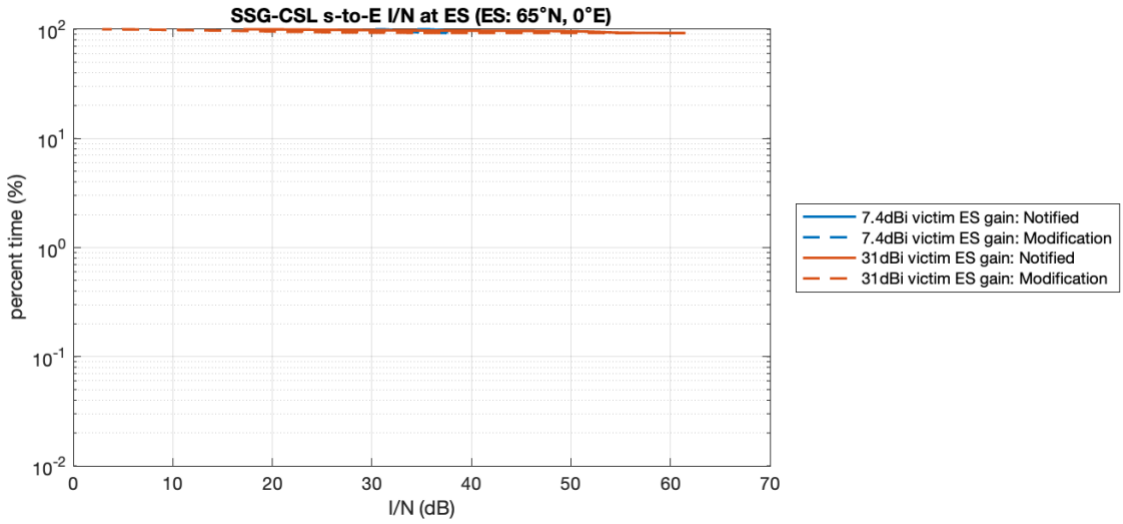

SPACELOOP E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

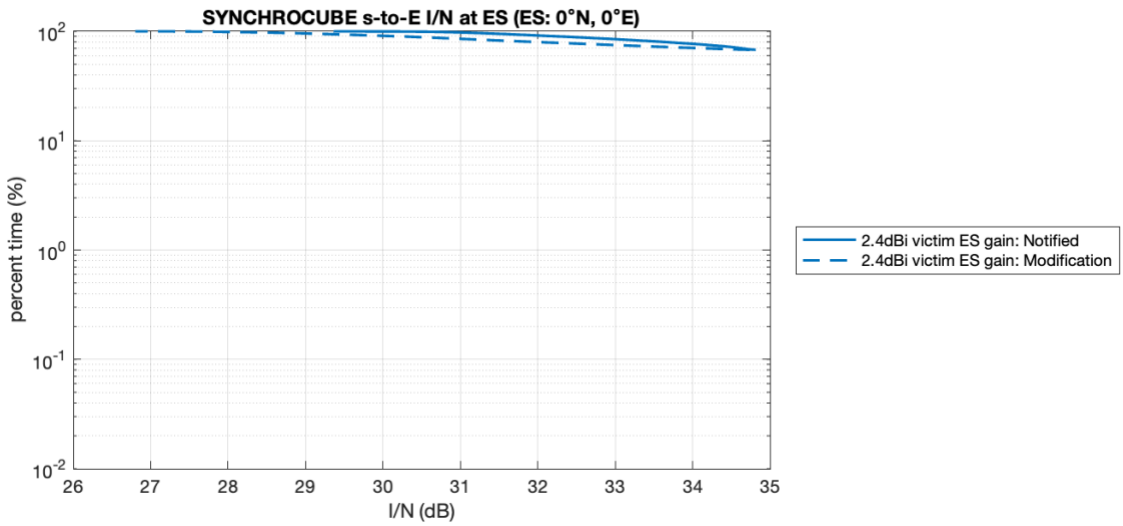

SSG-CSL s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
7.4dBi victim ES gain: Notified
7.4dBi victim ES gain: Modification
31dBi victim ES gain: Notified
31dBi victim ES gain: Modification

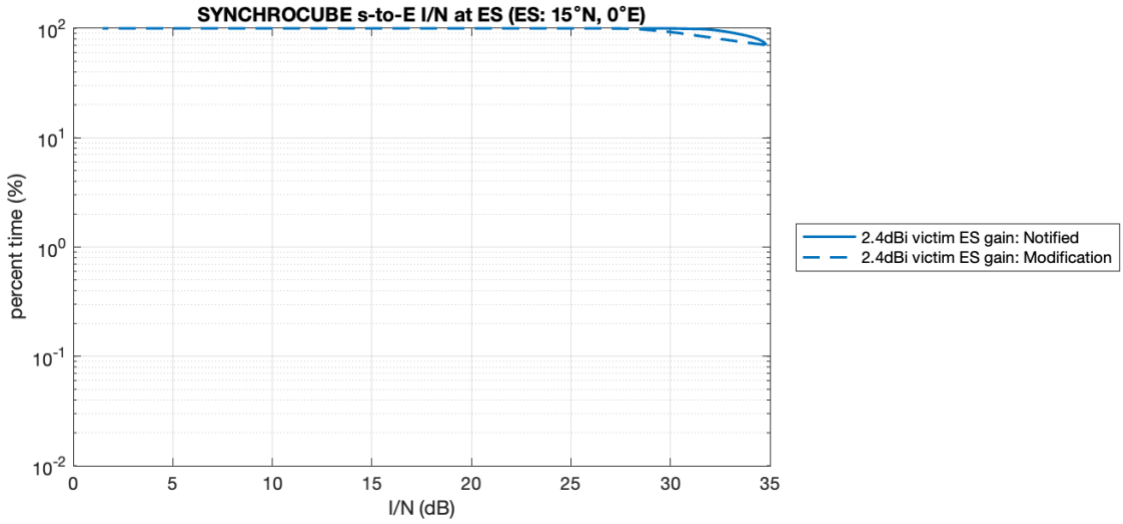

SSG-CSL s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
7.4dBi victim ES gain: Notified
7.4dBi victim ES gain: Modification
31dBi victim ES gain: Notified
31dBi victim ES gain: Modification

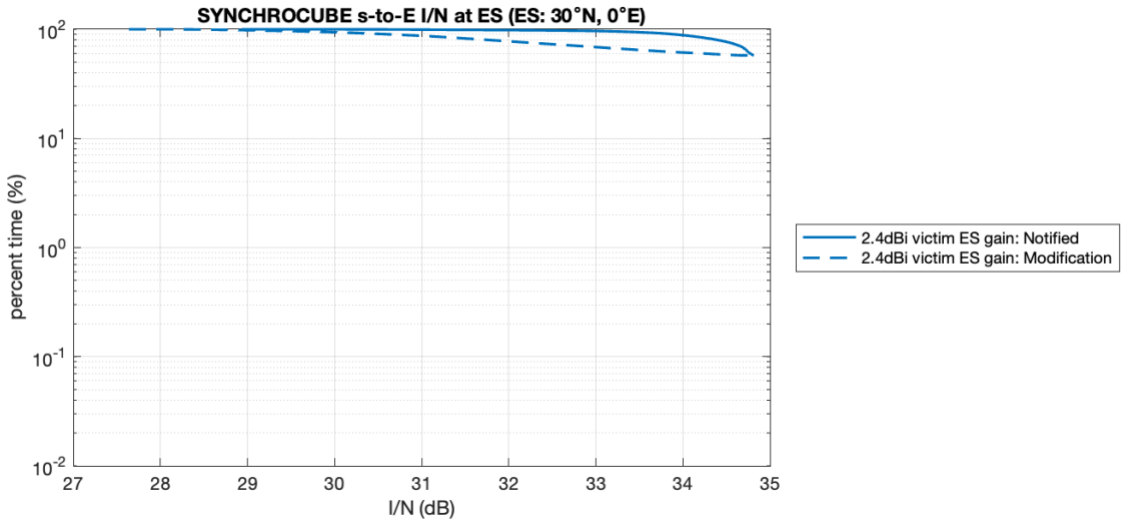

SSG-CSL s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
7.4dBi victim ES gain: Notified
7.4dBi victim ES gain: Modification
31dBi victim ES gain: Notified
31dBi victim ES gain: Modification

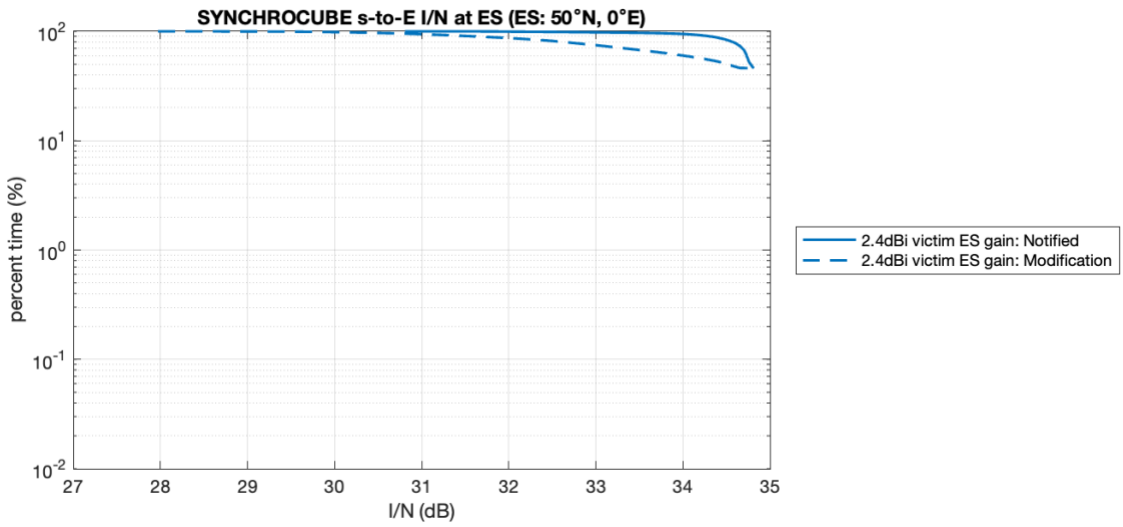

SSG-CSL s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
7.4dBi victim ES gain: Notified
7.4dBi victim ES gain: Modification
31dBi victim ES gain: Notified
31dBi victim ES gain: Modification

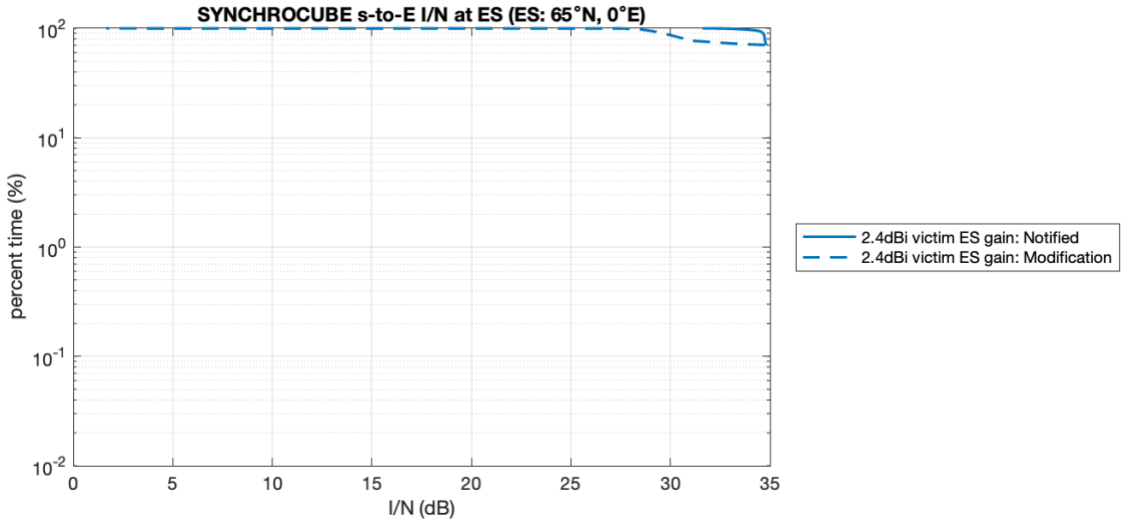

SSG-CSL s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
7.4dBi victim ES gain: Notified
7.4dBi victim ES gain: Modification
31dBi victim ES gain: Notified
31dBi victim ES gain: Modification

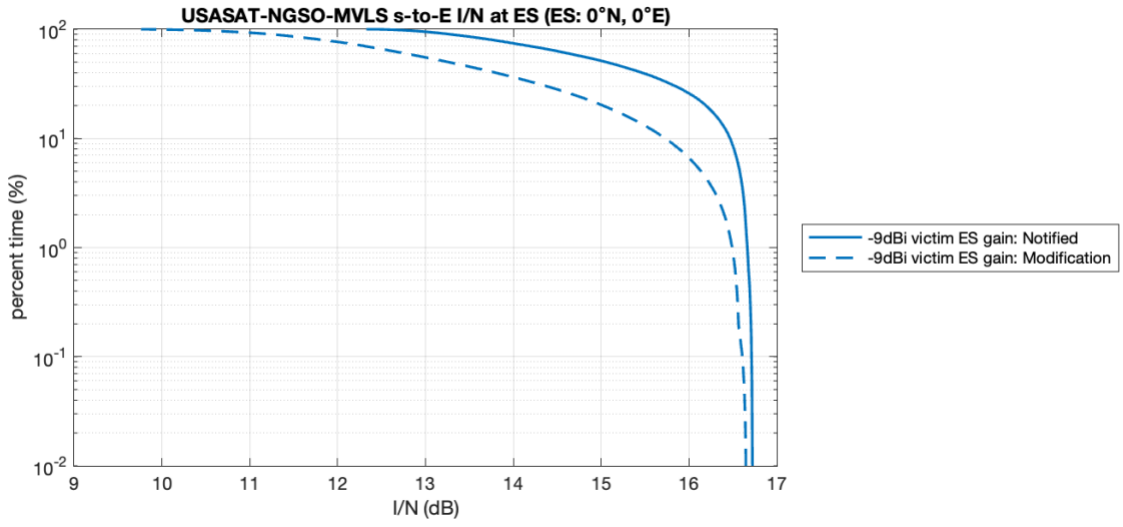

SYNCHROCUBE s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification

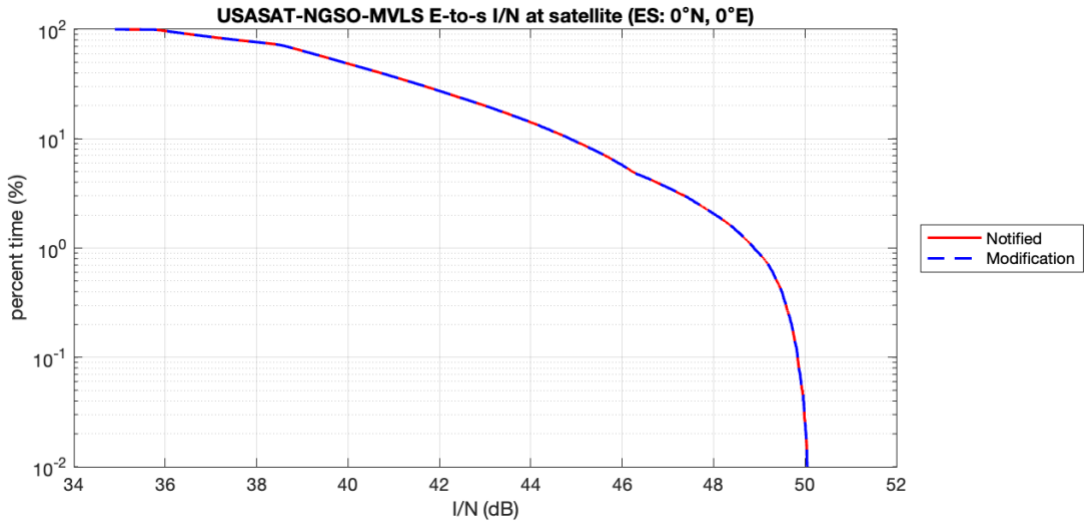

SYNCHROCUBE s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification

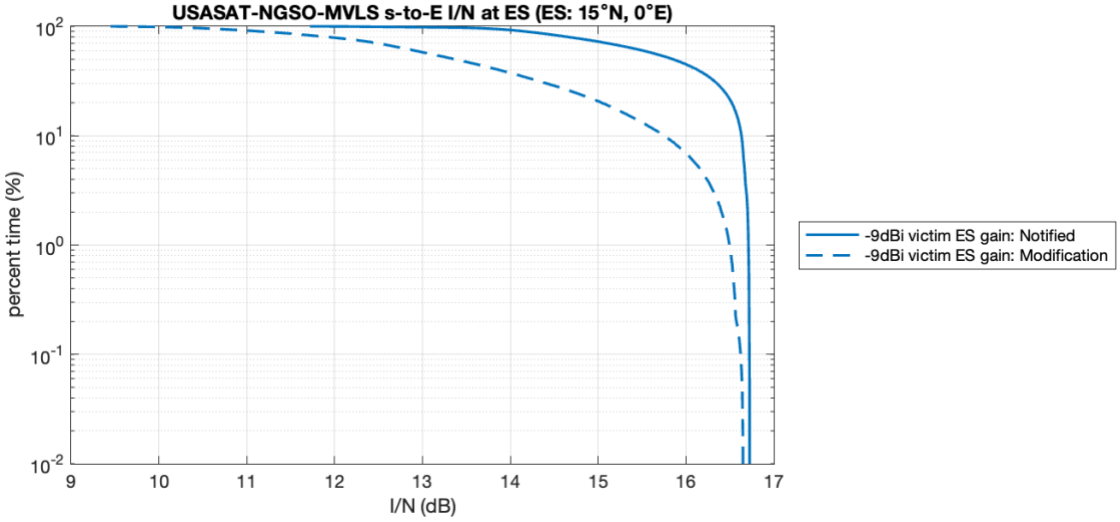

SYNCHROCUBE s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification

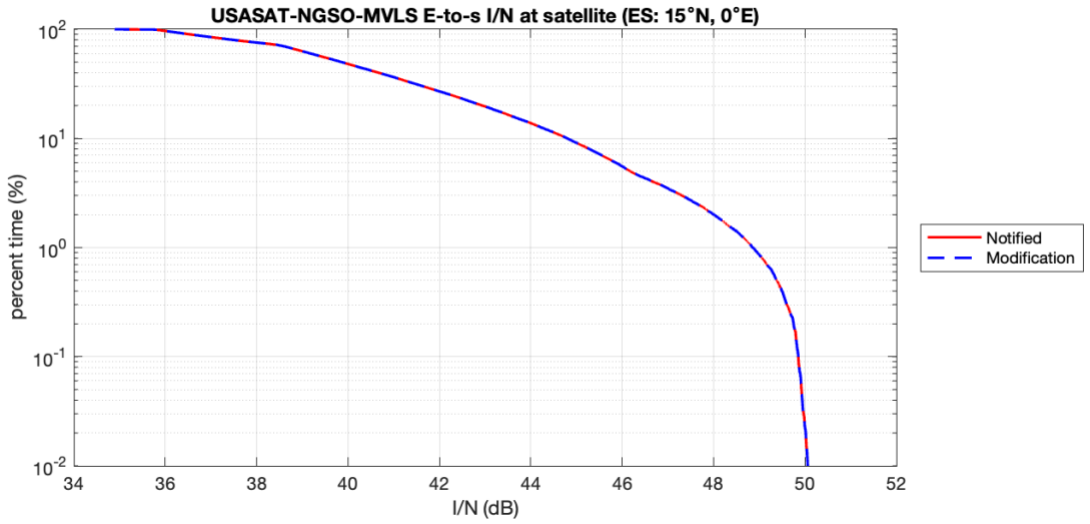

SYNCHROCUBE s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification

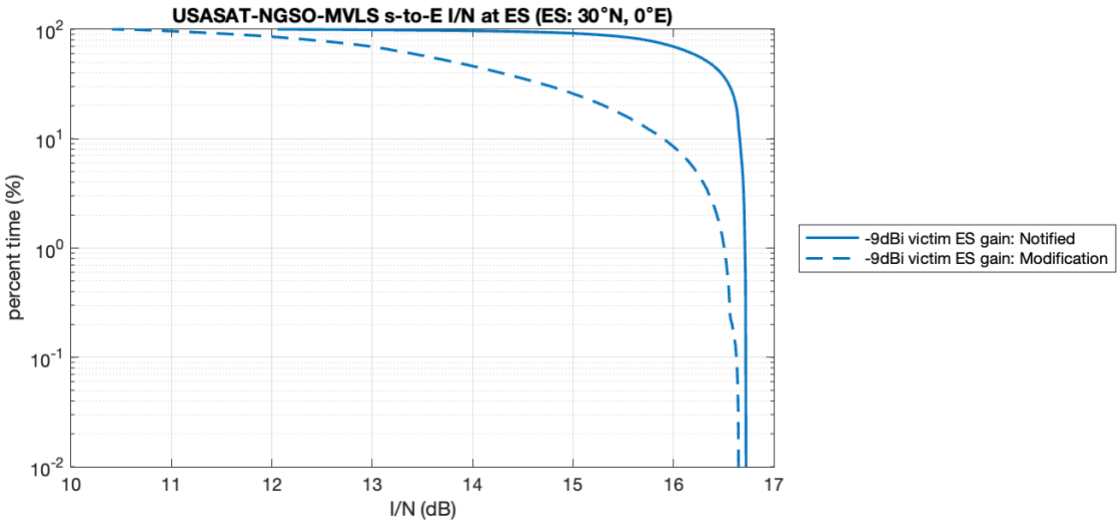

SYNCHROCUBE s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
2.4dBi victim ES gain: Notified
2.4dBi victim ES gain: Modification

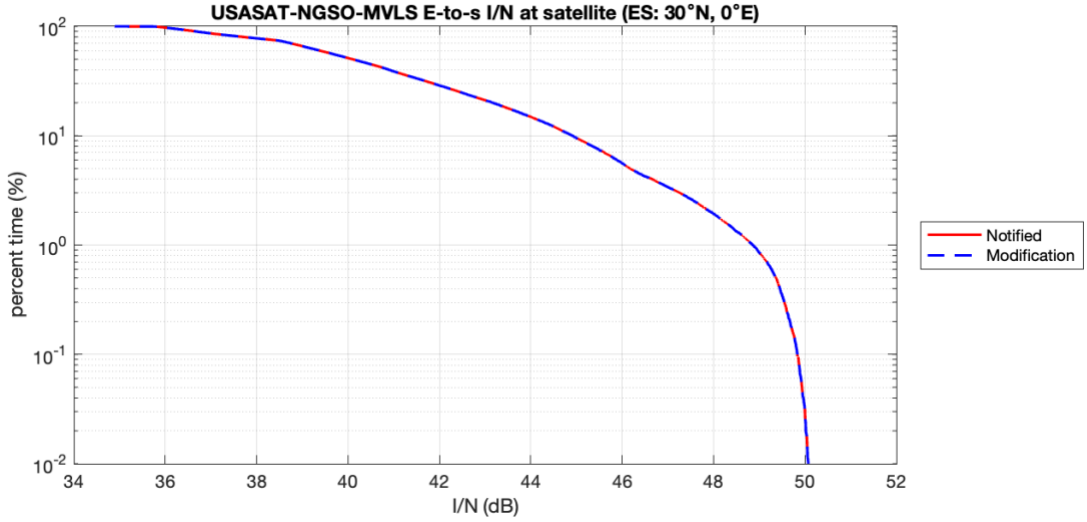

USASAT-NGSO-MVLS s-to-E I/N at ES (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification

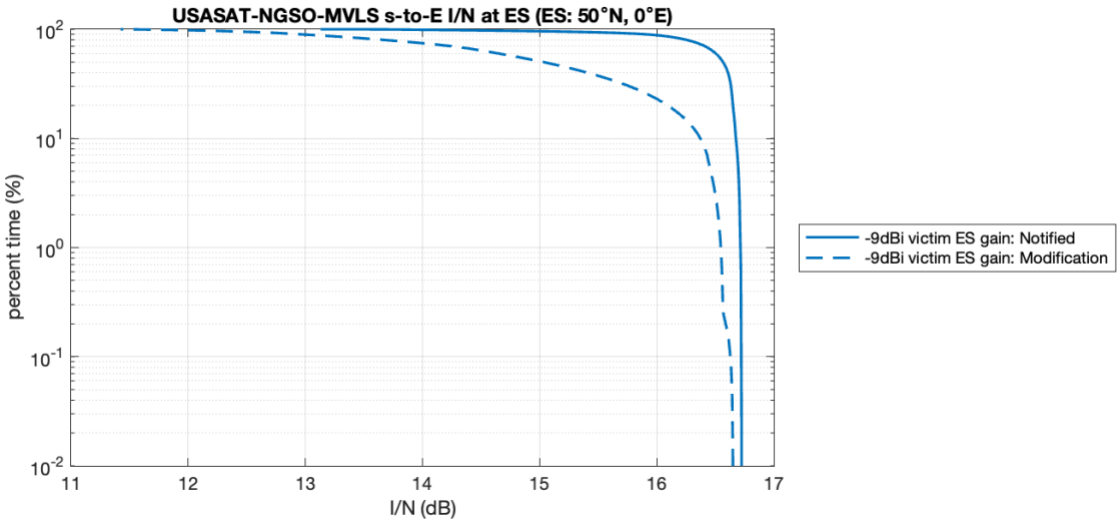

USASAT-NGSO-MVLS E-to-s I/N at satellite (ES: 0°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

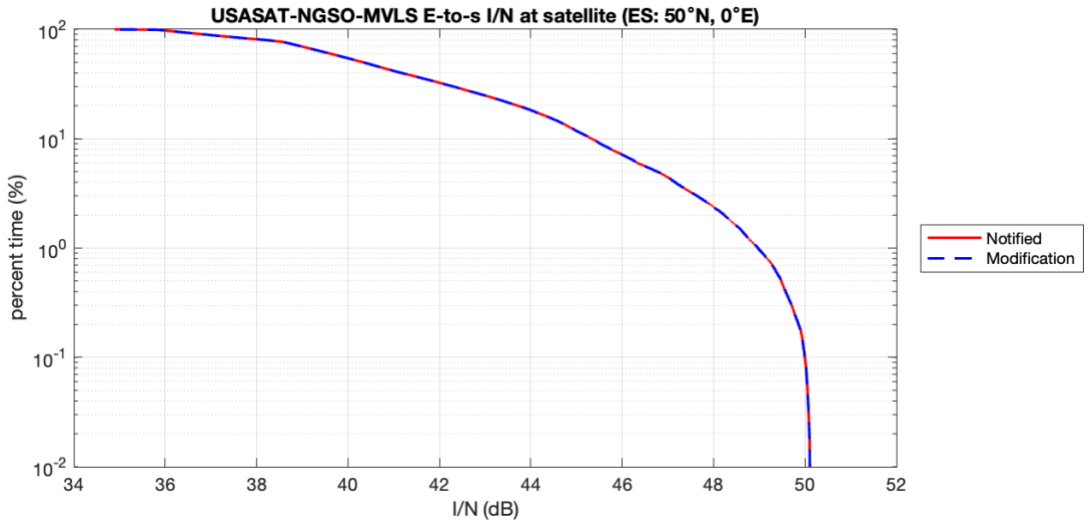

USASAT-NGSO-MVLS s-to-E I/N at ES (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification

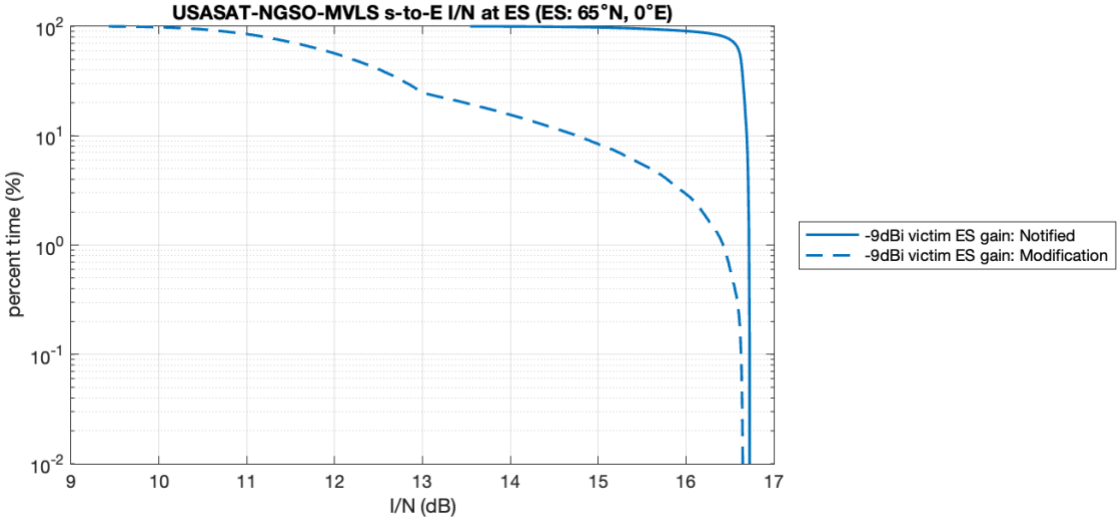

USASAT-NGSO-MVLS E-to-s I/N at satellite (ES: 15°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification

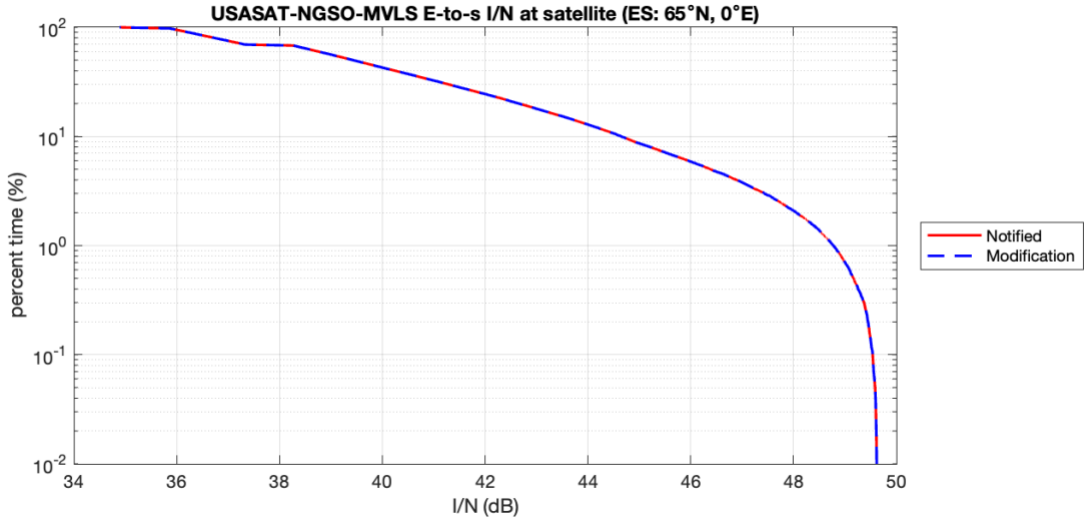

USASAT-NGSO-MVLS s-to-E I/N at ES (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification


USASAT-NGSO-MVLS E-to-s I/N at satellite (ES: 30°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification


USASAT-NGSO-MVLS s-to-E I/N at ES (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification


USASAT-NGSO-MVLS E-to-s I/N at satellite (ES: 50°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification


USASAT-NGSO-MVLS s-to-E I/N at ES (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
-9dBi victim ES gain: Notified
-9dBi victim ES gain: Modification


USASAT-NGSO-MVLS E-to-s I/N at satellite (ES: 65°N, 0°E)
percent time (%)
I/N (dB)
Notified
Modification