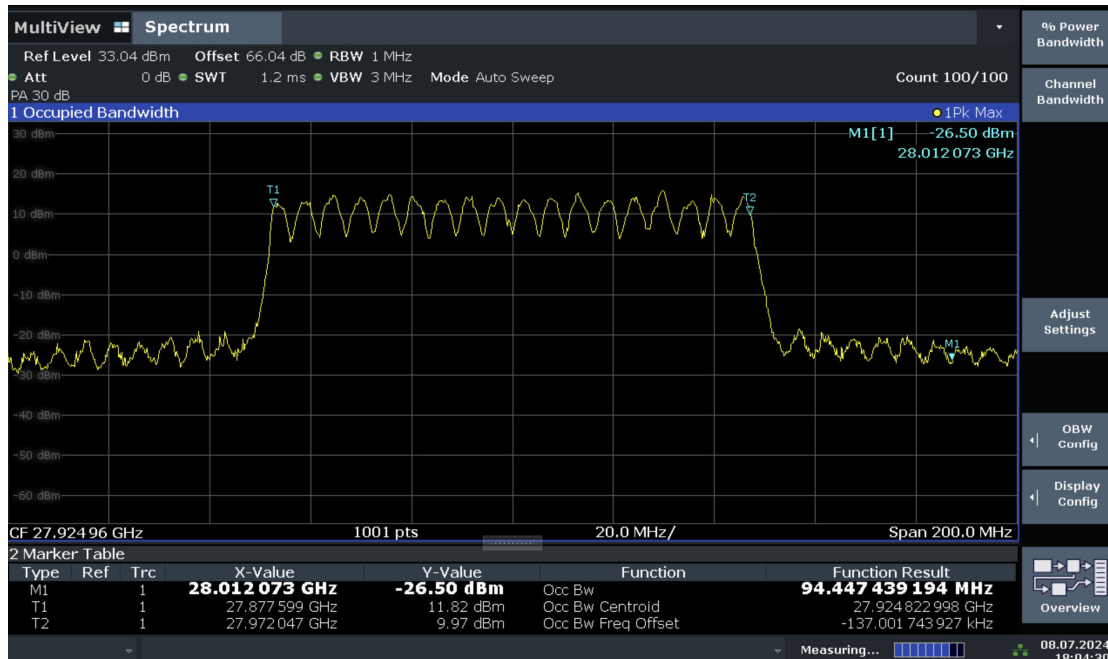
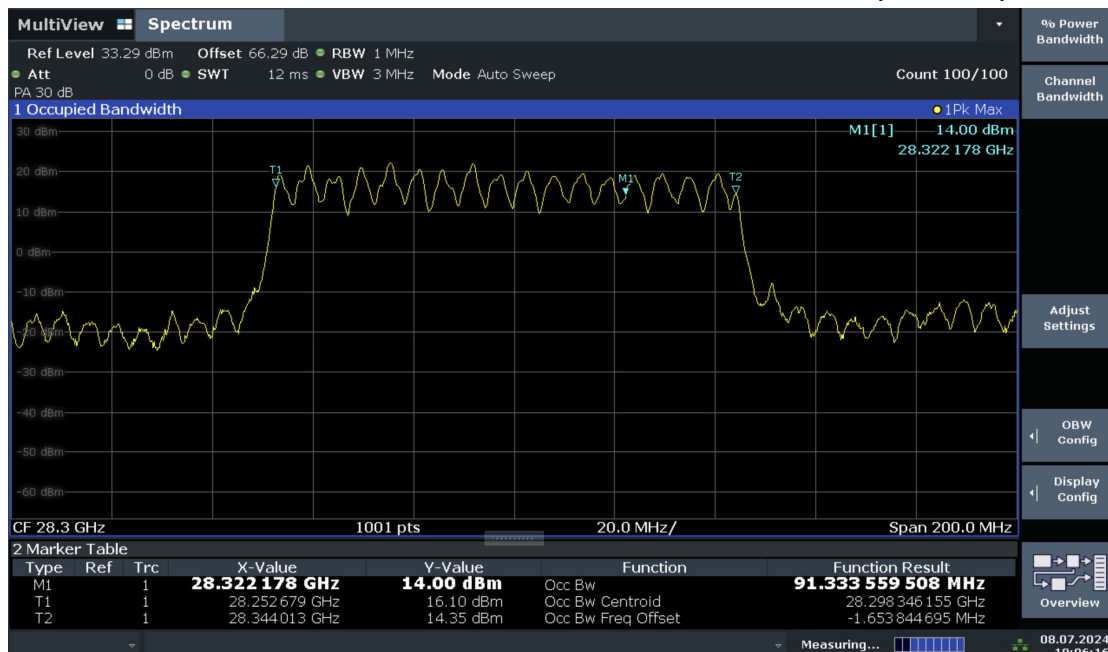
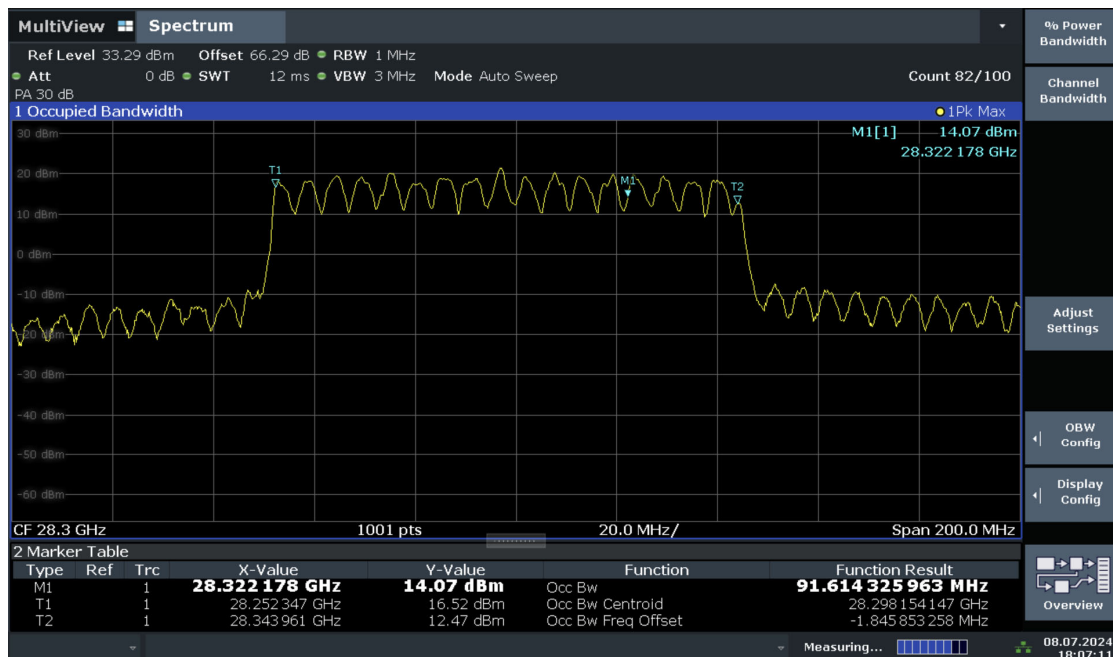
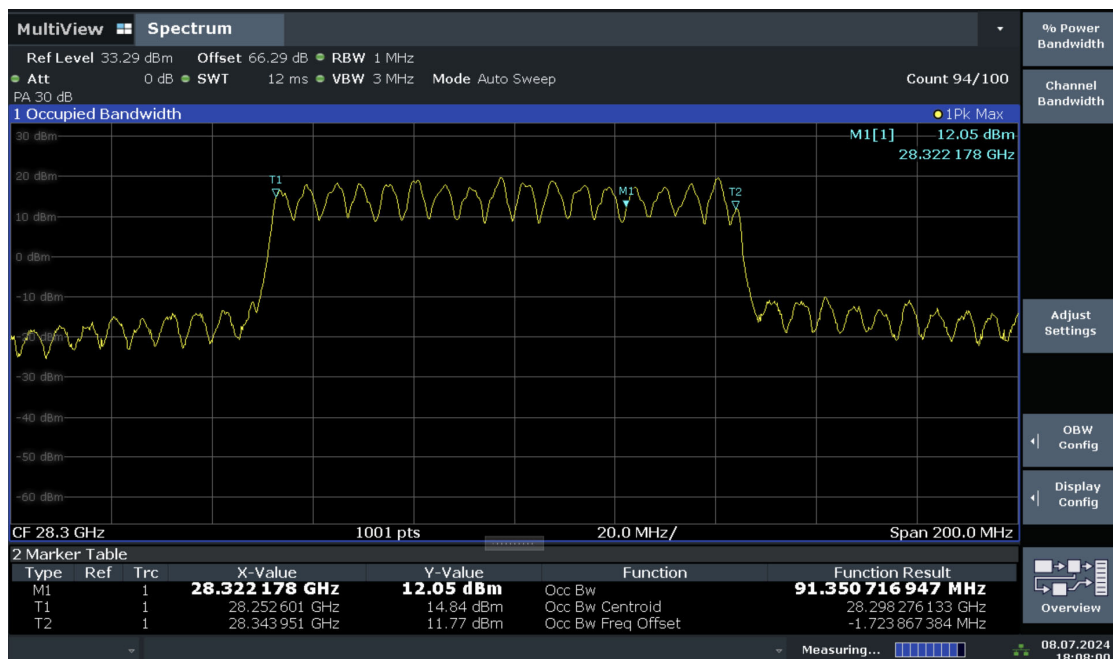
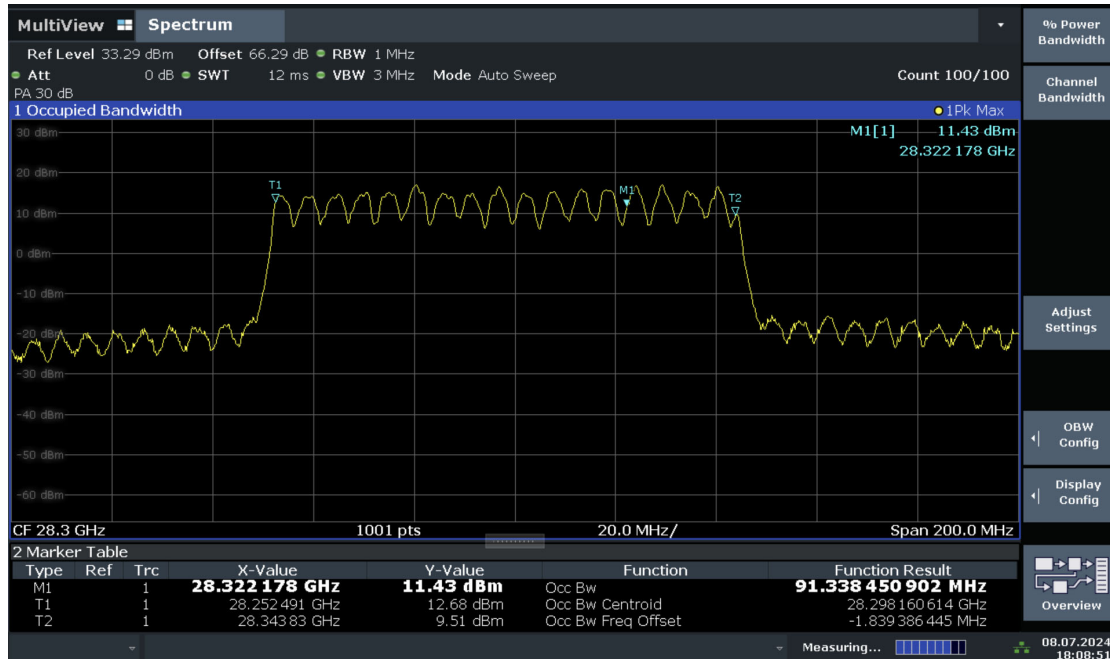
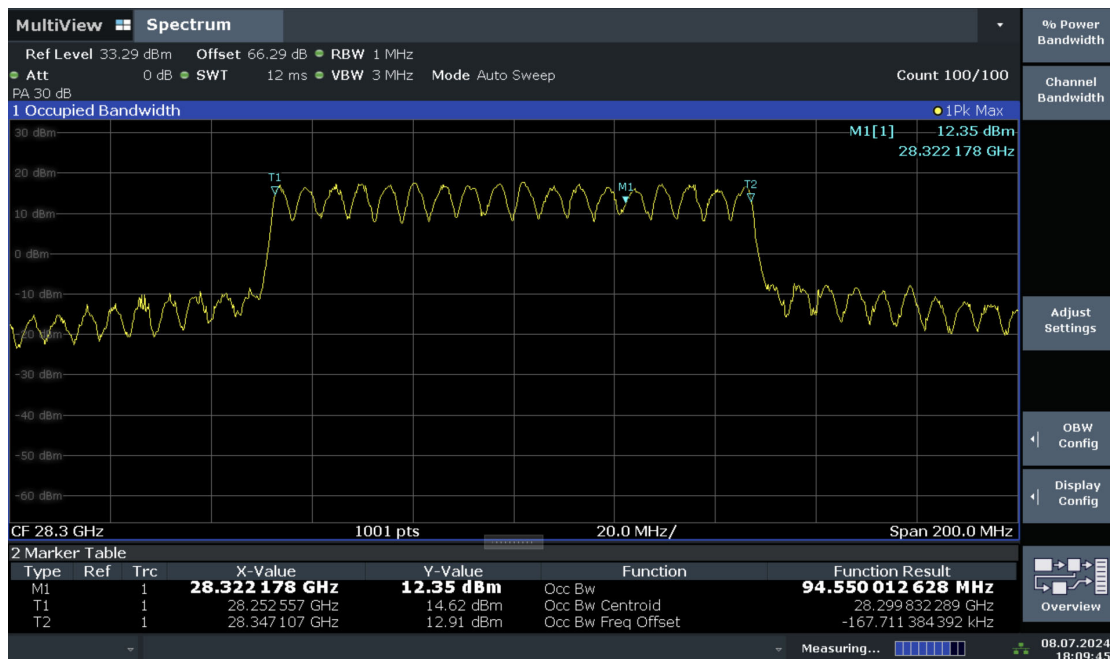
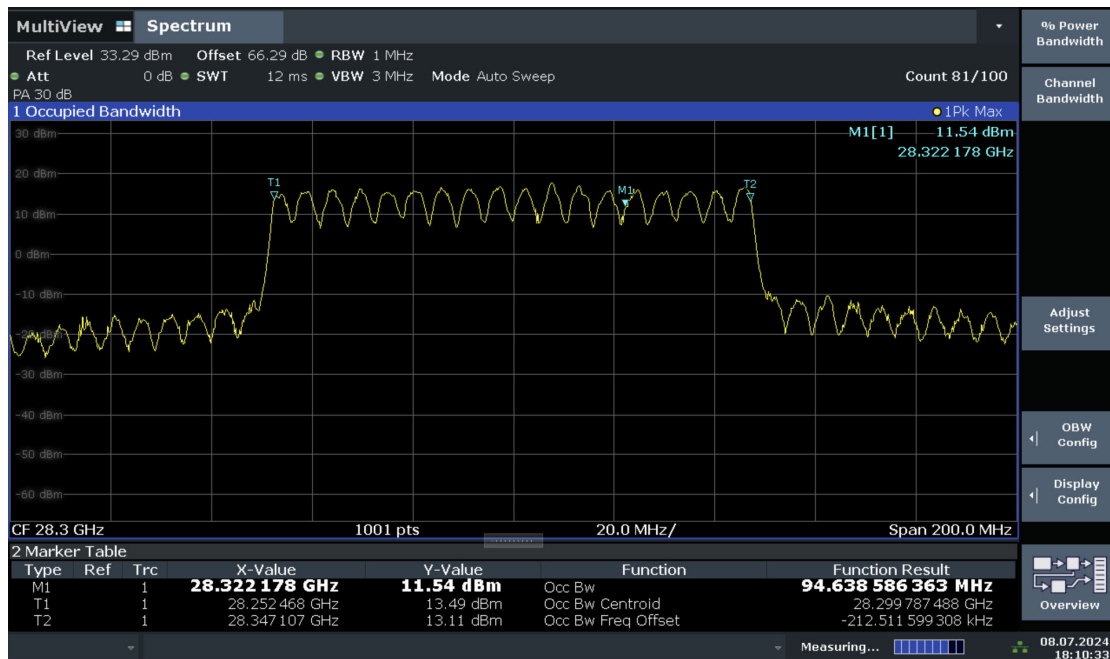
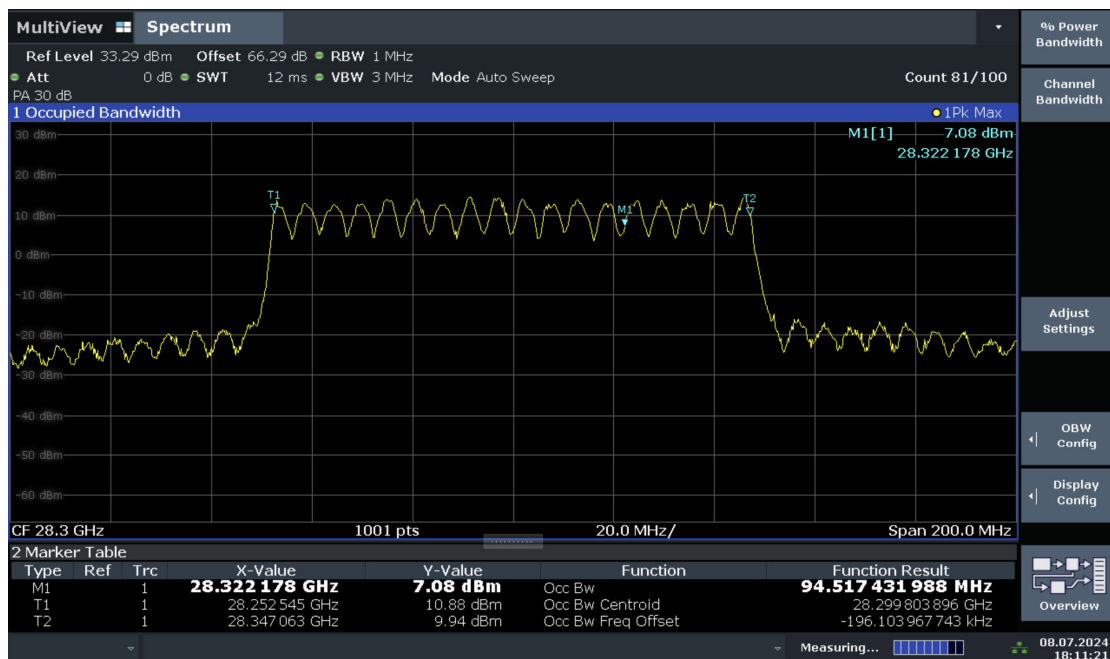


**n261, Module 0, 100MHz, MID CH, CP-OFDM 64QAM (99% BW)****n261, Module 0, 100MHz, HIGH CH, PUSCH DFT BPSK (99% BW)**

**n261, Module 0, 100MHz, HIGH CH, PUSCH DFT QPSK (99% BW)****n261, Module 0, 100MHz, HIGH CH, PUSCH DFT 16QAM (99% BW)**

**n261, Module 0, 100MHz, HIGH CH, PUSCH DFT 64QAM (99% BW)****n261, Module 0, 100MHz, HIGH CH, CP-OFDM QPSK (99% BW)**

**n261, Module 0, 100MHz, HIGH CH, CP-OFDM 16QAM (99% BW)****n261, Module 0, 100MHz, HIGH CH, CP-OFDM 64QAM (99% BW)**

2.3 Frequency Stability

2.3.1 Requirement

According to FCC section 2.1055, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from 0°C to 40°C , which are specified by the applicant.

2.3.2 Test setup

EUT uses a horn antenna connected to a spectrum analyzer for measurement. The EUT was placed in an environmental chamber using foam plugs to maintain temperature conditions inside. The horn antenna measures the frequency of the fundamental signal.

2.3.3 Test procedure

ANSI C63.26-2015 - Section 5.6

KDB 842590 D01 v01r02 Section 4.5



2.3.4 Test Result

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.4VDC, which are specified by the applicant; the normal temperature here used is 20°C.

n260, SCS 120kHz, Frequency 38499.96MHz					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.8	+20	0	Reference	PASS
Normal		-20	-75	-0.002	
Normal		-10	-72	-0.002	
Normal		0	-91	-0.002	
Normal		+10	94	0.002	
Normal		+30	-79	-0.002	
Normal		+40	-98	-0.003	
Normal		+55	-85	-0.002	
High	4.2	+20	23	0.001	
BATT.ENDPOINT	3.4	+20	-93	-0.002	

NR n261, SCS 120kHz, Frequency 27924.96MHz					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.8	+20	0	Reference	PASS
Normal		-20	32	0.001	
Normal		-10	-30	-0.001	
Normal		0	-58	-0.002	
Normal		+10	87	0.003	
Normal		+30	70	0.003	
Normal		+40	-76	-0.003	
Normal		+55	23	0.001	
High	4.2	+20	-39	-0.001	
BATT.ENDPOINT	3.4	+20	-91	-0.003	

2.4 Radiated Spurious Emissions

2.4.1 Requirement

According to FCC section 30.203, The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be -13 dBm/MHz or lower.

2.4.2 Test procedure

ANSI C63.26-2015 - Section 5.5.4

KDB 842590 D01 v01 Section 4.4.3

2.4.3 Test settings

1. Set the EUT power to the maximum
2. Start frequency was set to 30MHz and stop frequency was set 200GHz for n261
3. Detector = RMS
4. Trace mode = Trace average
5. Sweep time = Auto
6. RBW = 1MHz, VBW = 3MHz
7. Number of sweep point $\geq 2 \times \text{span} / \text{RBW}$

Note 1:

1) Perform maximum EIRP measurement as described in 5.5.4 of ANSI C63.26 (field strength method). Note: EIRP measurements are performed using linearly polarized antenna. Both horizontal and vertical polarizations are measured separately and not summed. The highest amplitude signal measured from horizontal or vertical polarization is used for determining compliance to the unwanted emission limit.

2) Compare the measured maximum EIRP at each frequency with the applicable TRP limit.

3) If the maximum EIRP is less than TRP limit then early exit condition is met, and no further measurements are required for that frequency.

4) Otherwise follow TRP measurement procedures using the Spherical Grid TRP Method. If the device does not meet the emission limit at one or some frequencies, then TRP measurements need be performed only those frequencies.

Note 2: The power of the EUT transmitting frequency should be ignored.

Note 3: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note 4: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases were recorded in this test report.

Note 5: Only the worst test results were recorded below 18 GHz.

Note 6: According to KDB 842590 D01 Upper Microwave Flexible Use Service.

Analyzer Offset (dB)= Corrected Loss (dB) + Path Loss (dB).

where:

Corrected Loss (dB)= Space Loss (dB) – Antenna Gain (dBi).

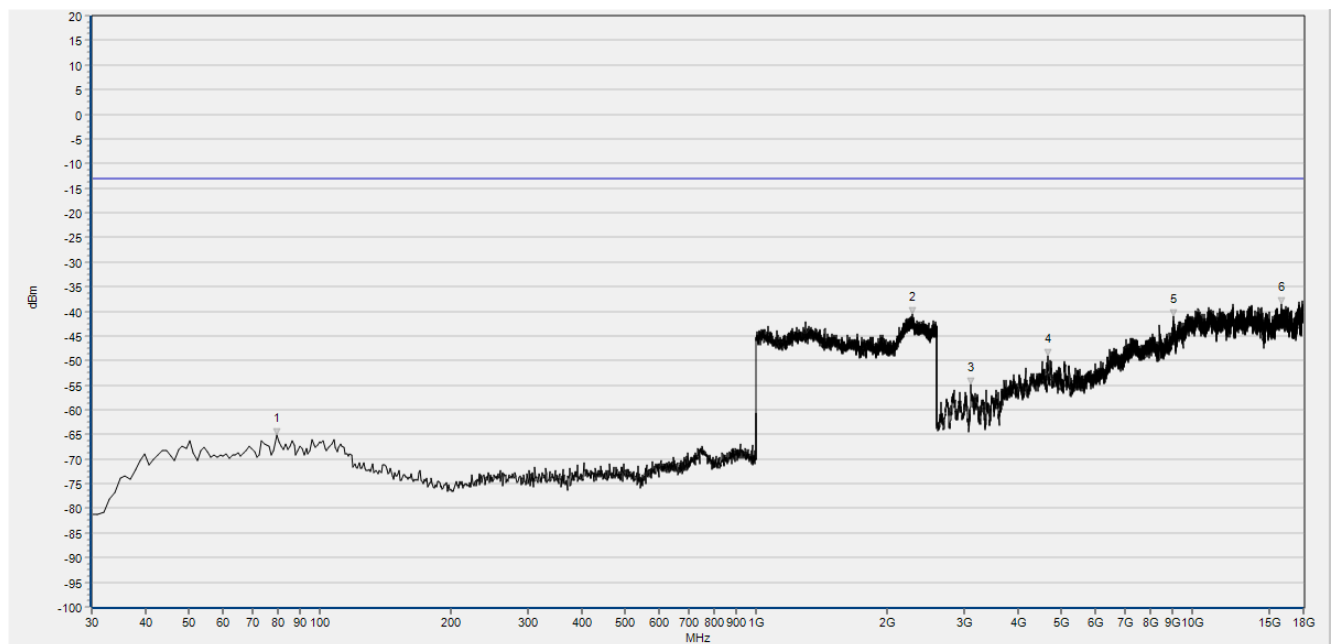
Path Loss (dB)= Converter Loss(dB) + Cable Loss (dB).

Note: For below 40GHz, since the test does not require the use of a mixer, so the test results do not require the calculation of Converter Loss.

The analyzer offset will be specified in the test results table.

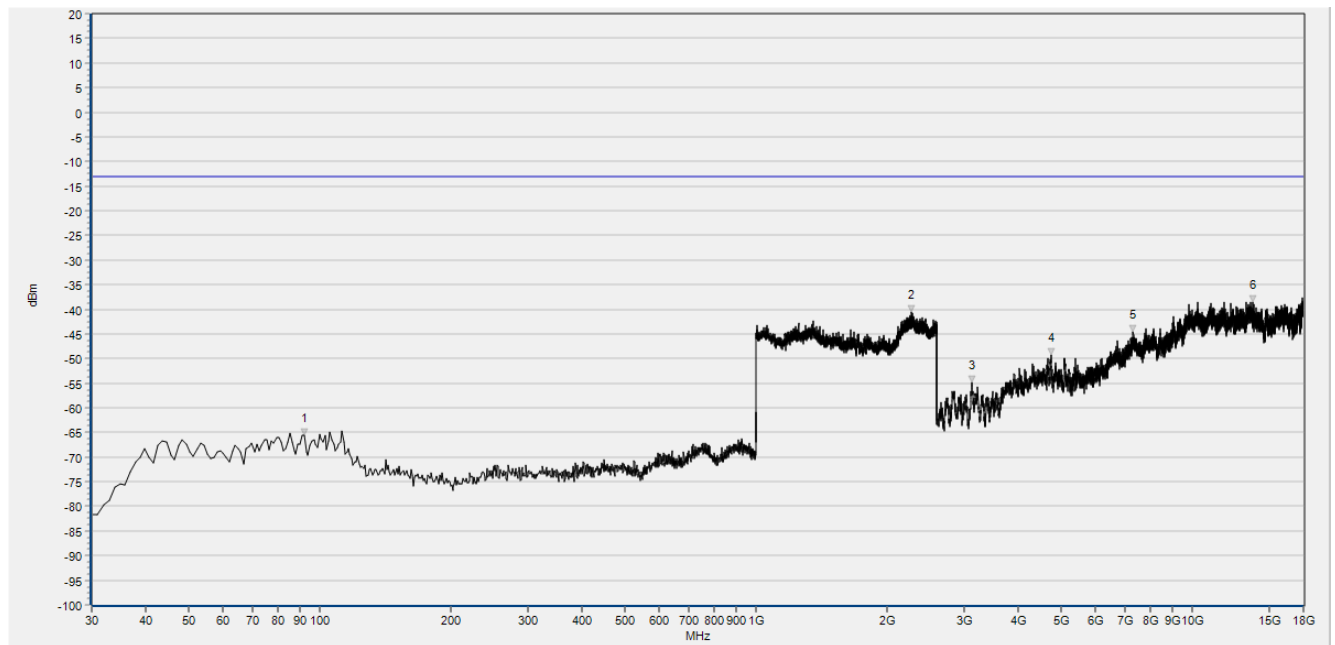
2.4.4Test result

30 MHz – 18 GHz



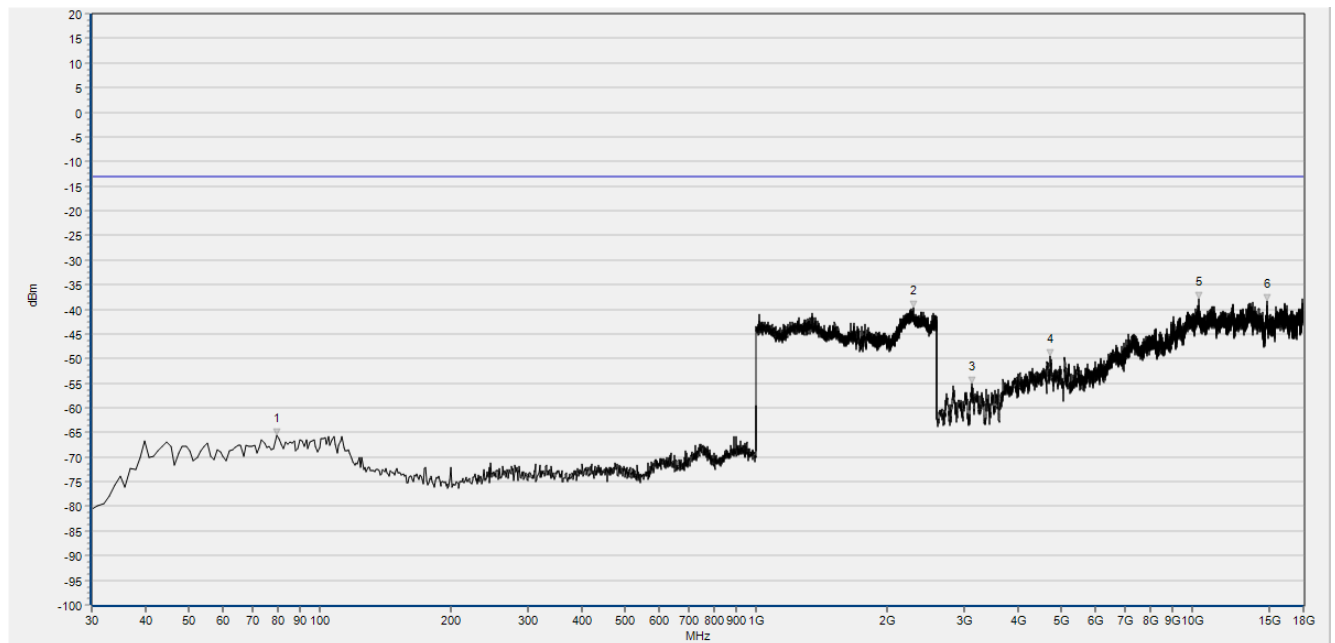
(n260 30M-18G 2278749 Beam ID14 SCS120K DFT QPSK RB10@11 EUT-X ANT-H)

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	79.470	-65.14	H	-13.00	PASS
2	2278.591	-40.62	H	-13.00	PASS
3	3112.493	-54.85	H	-13.00	PASS
4	4666.776	-49.01	H	-13.00	PASS
5	9080.378	-41.03	H	-13.00	PASS
6	16031.242	-38.63	H	-13.00	PASS



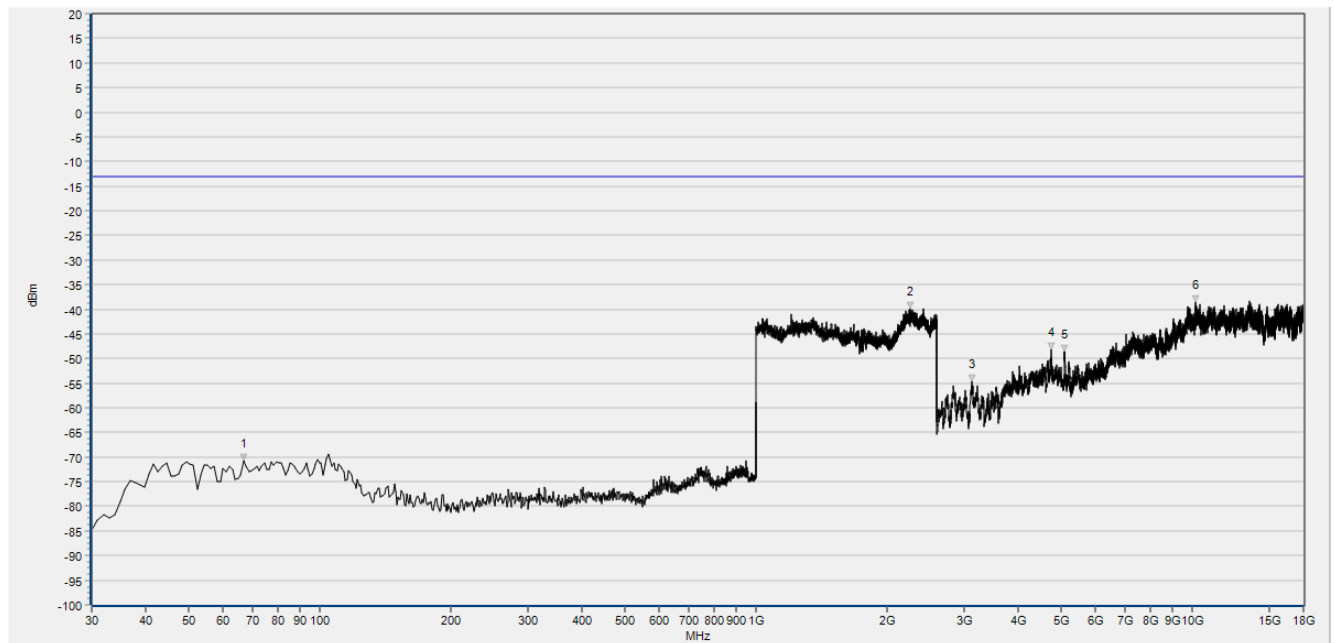
(n260 30M-18G 2278749 Beam ID14 SCS120K DFT QPSK RB10@11 EUT-X ANT-V)

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	92.080	-65.65	V	-13.00	PASS
2	2277.311	-40.63	V	-13.00	PASS
3	3132.097	-54.81	V	-13.00	PASS
4	4742.390	-49.32	V	-13.00	PASS
5	7327.260	-44.49	V	-13.00	PASS
6	13740.426	-38.57	V	-13.00	PASS



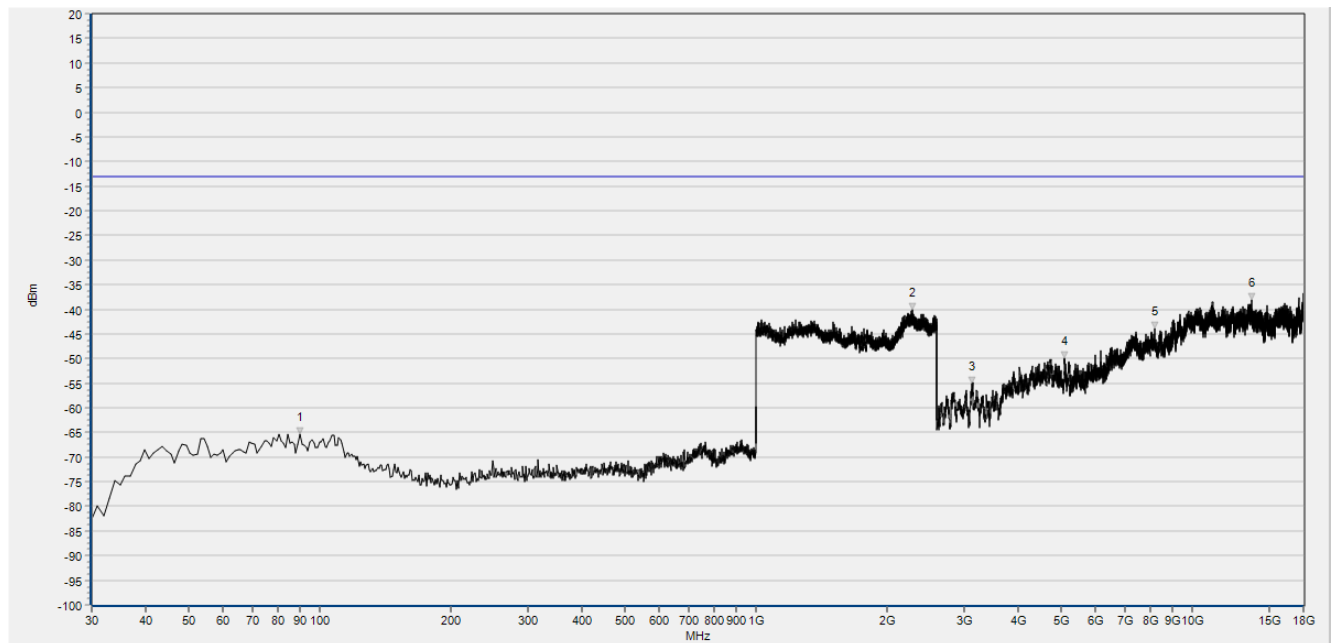
(n261 30M-18G 2071667 Beam ID 146 SCS 120K DFT QPSK RB1@22 EUT-X ANT-H)

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	79.470	-65.68	H	-13.00	PASS
2	2292.677	-39.62	H	-13.00	PASS
3	3132.097	-55.12	H	-13.00	PASS
4	4733.988	-49.39	H	-13.00	PASS
5	10360.211	-37.85	H	-13.00	PASS
6	14815.821	-38.39	H	-13.00	PASS



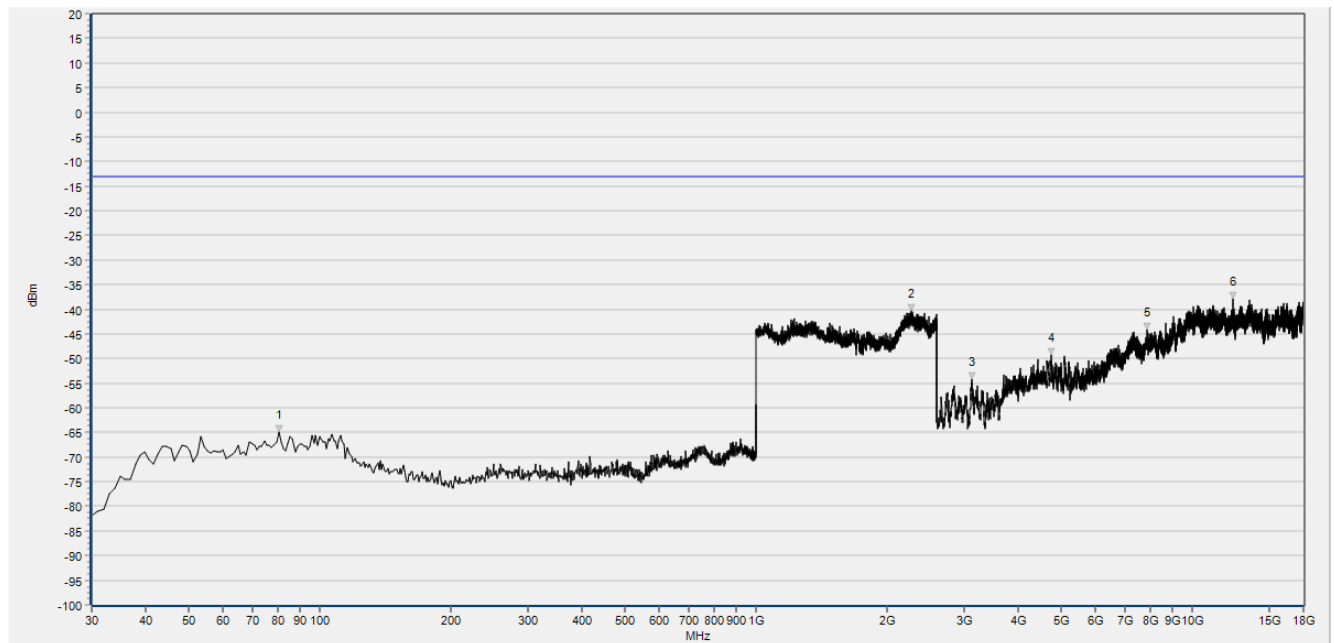
(n261 30M-18G 2071667 Beam ID 146 SCS 120K DFT QPSK RB1@22 EUT-X ANT-V)

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	66.860	-70.73	V	-13.00	PASS
2	2260.664	-39.84	V	-13.00	PASS
3	3123.695	-54.74	V	-13.00	PASS
4	4750.791	-48.21	V	-13.00	PASS
5	5098.054	-48.52	V	-13.00	PASS
6	10180.978	-38.64	V	-13.00	PASS



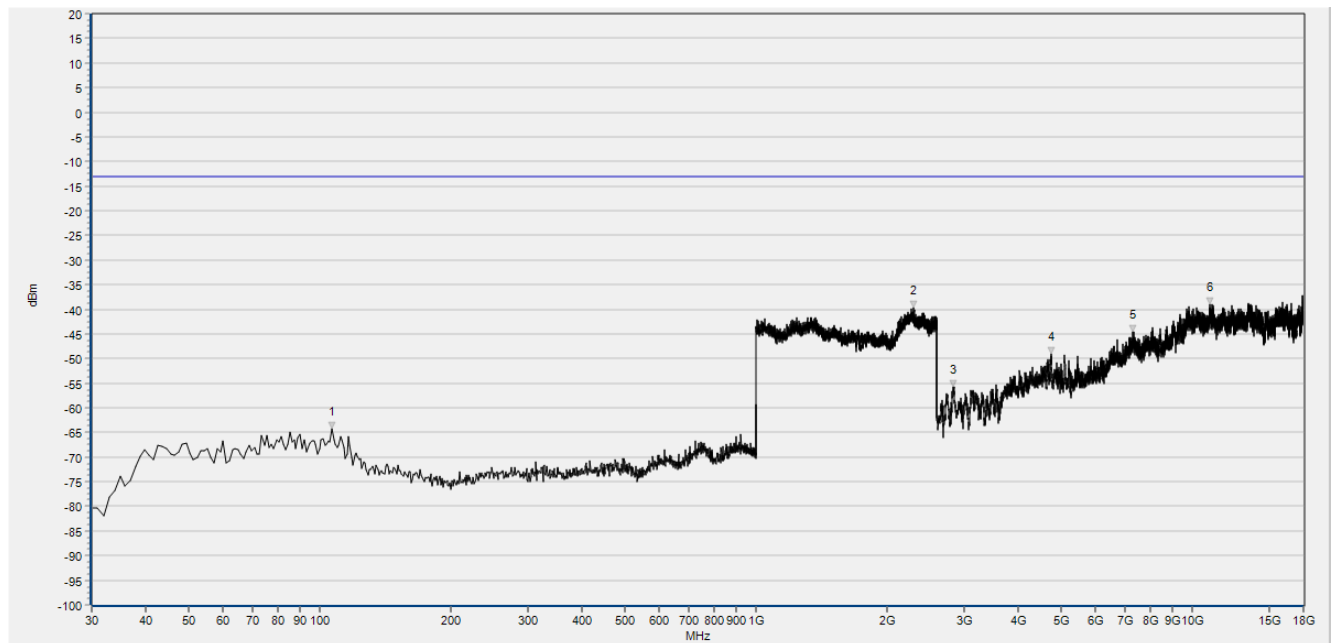
(n260 30M-18G 2278749 Beam ID14+142 SCS 120K DFT QPSK RB1@11 EUT-X ANT-H)

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	90.140	-65.43	H	-13.00	PASS
2	2280.512	-40.15	H	-13.00	PASS
3	3126.496	-55.00	H	-13.00	PASS
4	5098.054	-50.02	H	-13.00	PASS
5	8206.619	-43.99	H	-13.00	PASS
6	13687.216	-38.18	H	-13.00	PASS



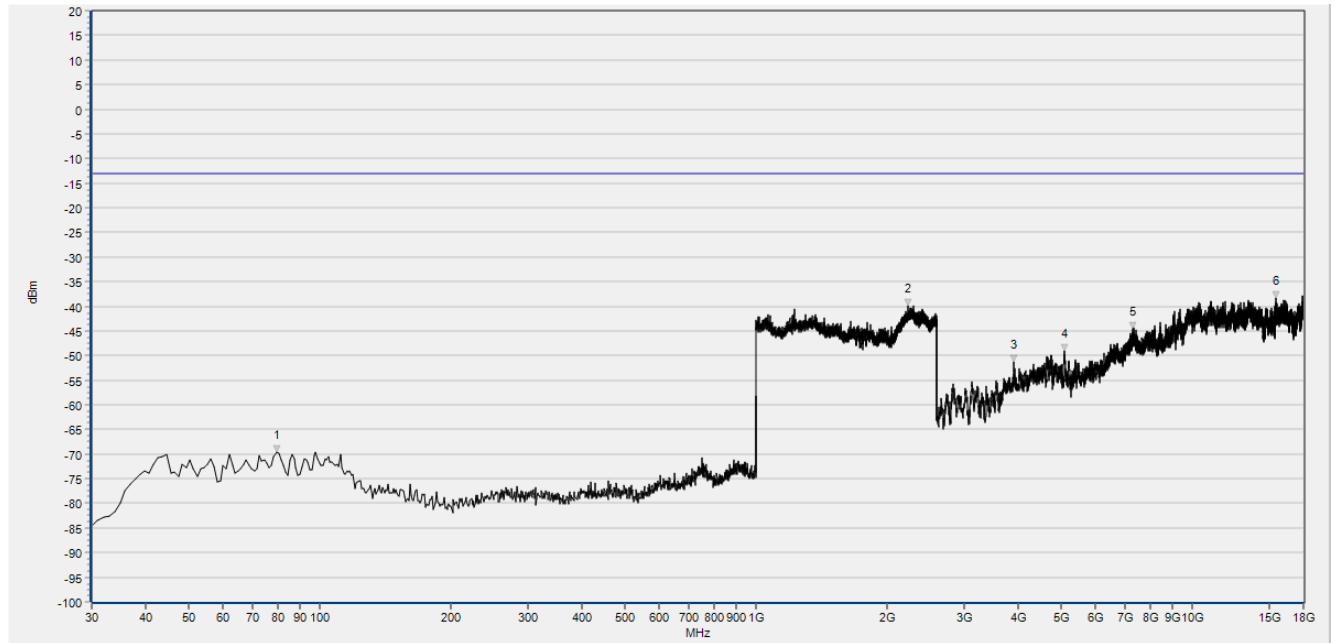
(n260 30M-18G 2278749 Beam ID14+142 SCS 120K DFT QPSK RB1@11 EUT-X ANT-V)

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	80.440	-64.90	V	-13.00	PASS
2	2275.390	-40.25	V	-13.00	PASS
3	3118.094	-54.21	V	-13.00	PASS
4	4747.991	-49.28	V	-13.00	PASS
5	7881.760	-44.11	V	-13.00	PASS
6	12398.982	-37.94	V	-13.00	PASS



(n261 30M-18G 2077915 Beam ID 146+18 SCS 120K DFT QPSK RB1@22 EUT-X ANT-H)

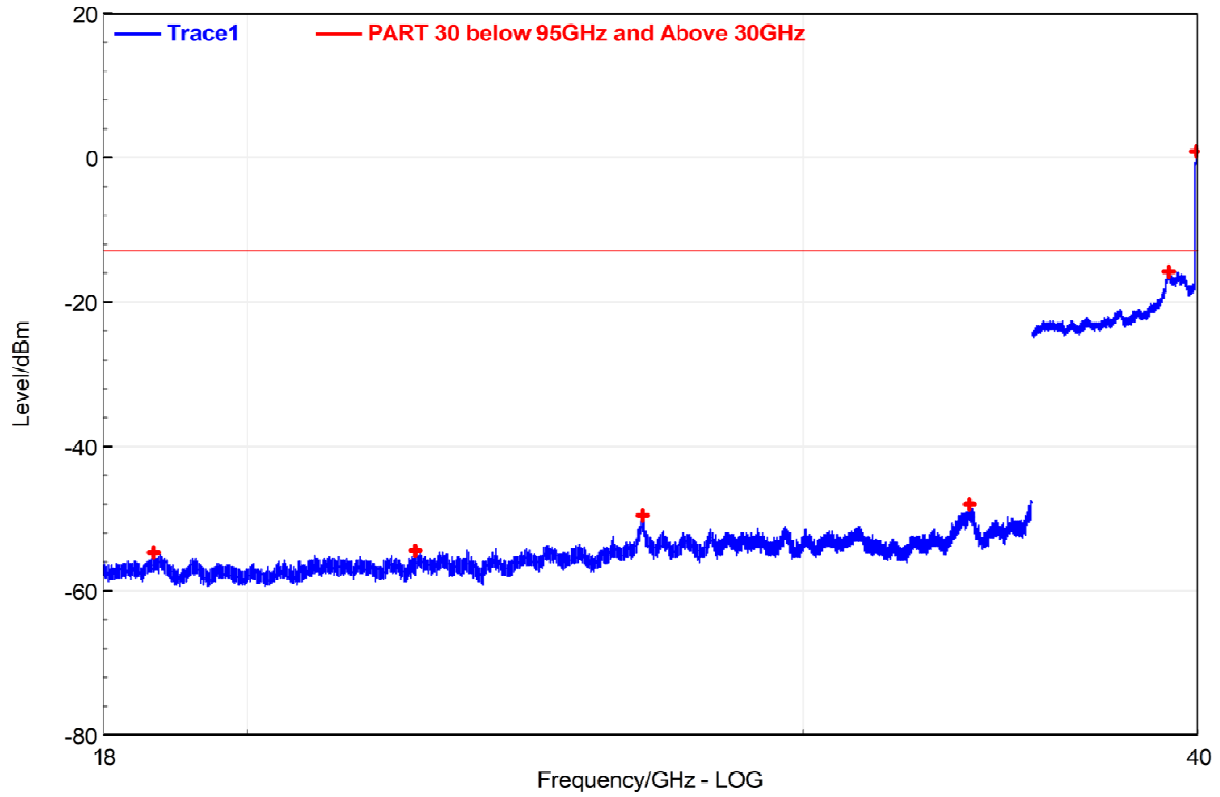
Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	106.630	-64.28	V	-13.00	PASS
2	2292.677	-39.65	V	-13.00	PASS
3	2832.442	-55.73	V	-13.00	PASS
4	4745.190	-49.03	V	-13.00	PASS
5	7316.057	-44.65	V	-13.00	PASS
6	10987.525	-38.99	V	-13.00	PASS



(n261 30M-18G 2077915 Beam ID 146+18 SCS 120K DFT QPSK RB1@22 EUT-X ANT-V)

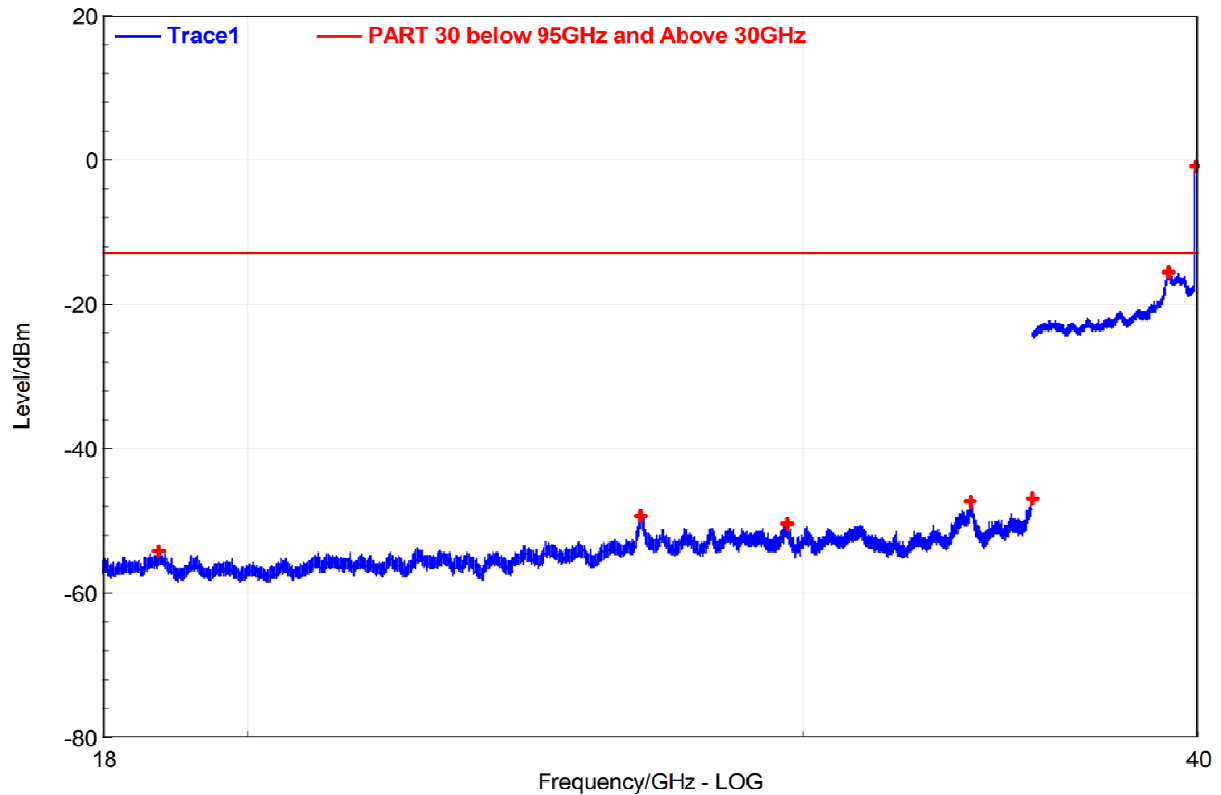
Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Limit (dBm)	Verdict
1	79.470	-69.53	V	-13.00	PASS
2	2236.975	-39.82	V	-13.00	PASS
3	3907.838	-51.20	V	-13.00	PASS
4	5098.054	-49.05	V	-13.00	PASS
5	7293.653	-44.55	V	-13.00	PASS
6	15591.562	-38.36	V	-13.00	PASS

18 GHz – 40 GHz



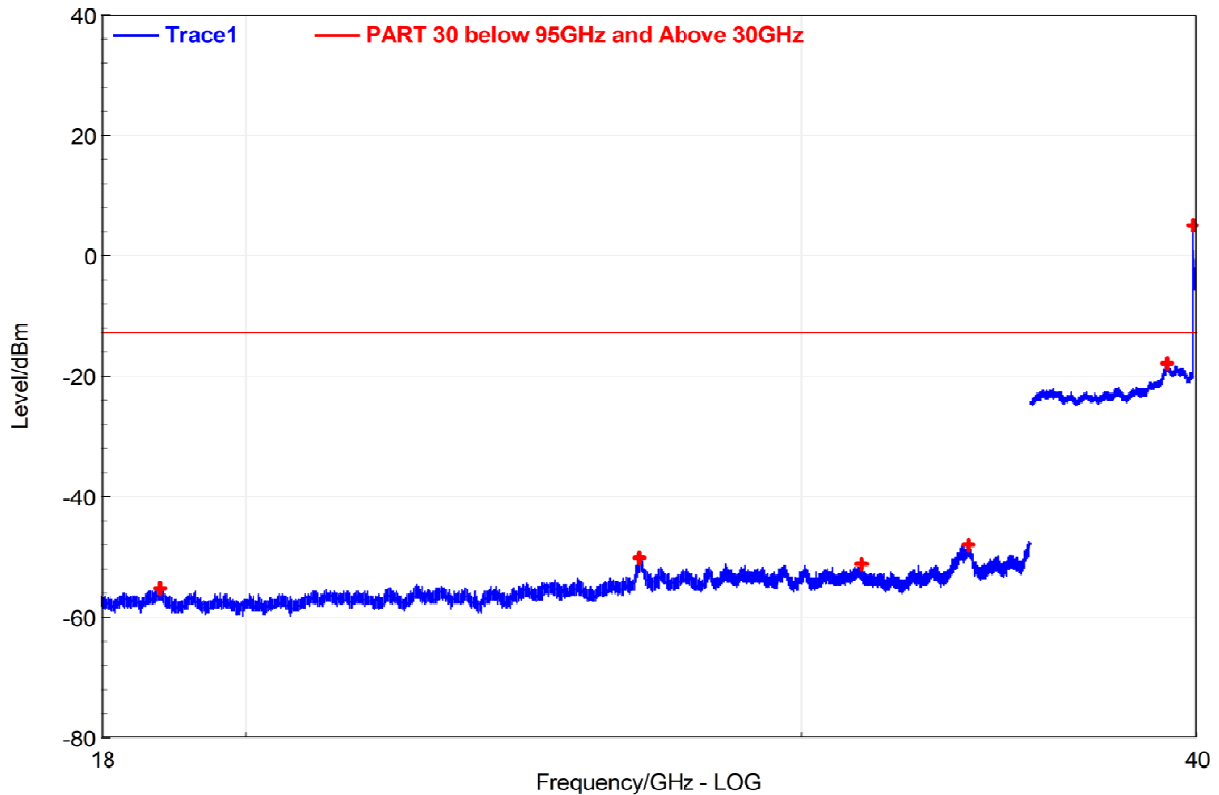
n260 2278749 Beam ID14 SCS120K DFT QPSK RB10@11 EUT-Z ANT-H

Order	Frequency (GHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.7085	-54.76	H	-45.32	50.42	-13	41.76
2	22.641	-54.52	H	-41.35	49.95	-13	41.52
3	26.693	-49.75	H	-39.84	54.48	-13	36.75
4	33.9155	-48.15	H	-38.05	55.42	-13	35.15
5	39.196	-15.83	H	16.73	58.08	-13	2.83
6	39.977	0.77	H	15.8	57.83	N/A	N/A



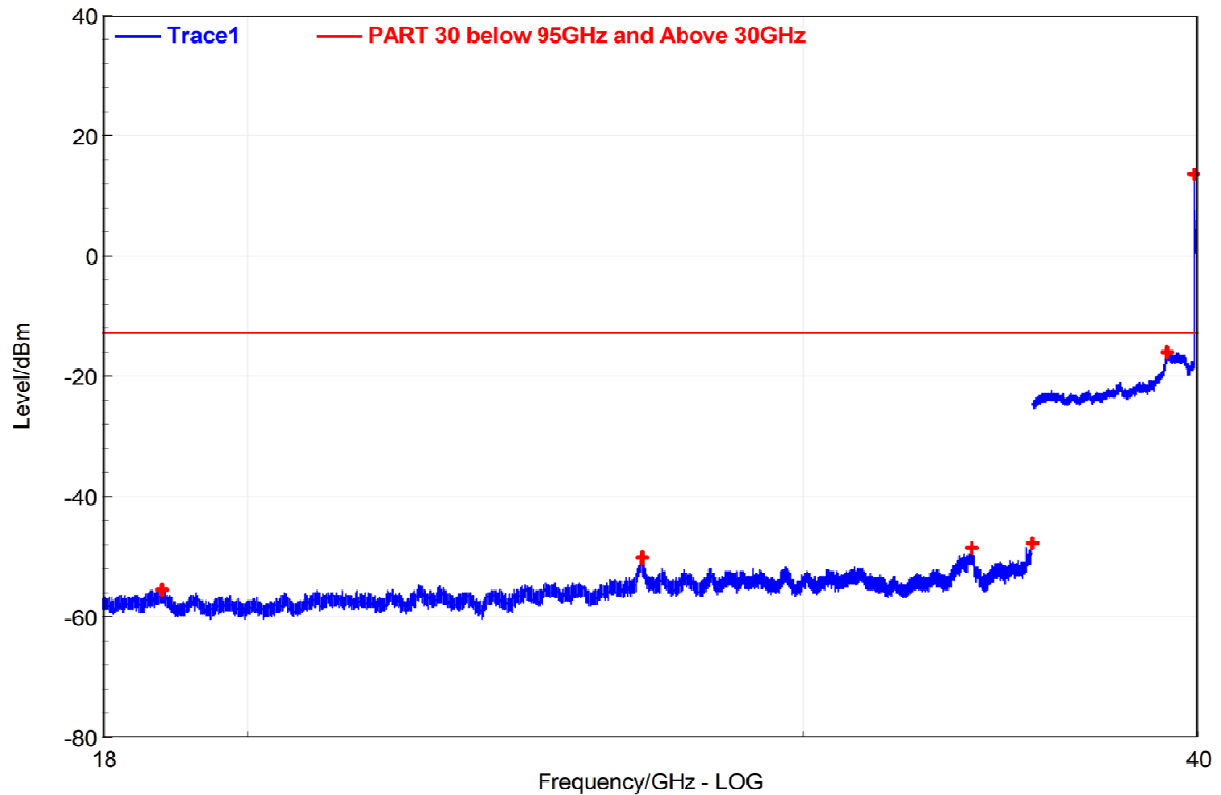
n260 2278749 Beam ID14 SCS120K DFT QPSK RB10@11 EUT-Z ANT-V

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.7825	-54.36	V	-44.9	50.44	-13	41.36
2	26.6825	-49.47	V	-39.91	54.29	-13	36.47
3	29.6695	-50.66	V	-38.57	51.92	-13	37.66
4	33.9215	-47.54	V	-38.07	55.32	-13	34.54
5	35.491	-46.99	V	-35.17	53.68	-13	33.99
6	39.1945	-15.75	V	16.73	58.08	N/A	N/A



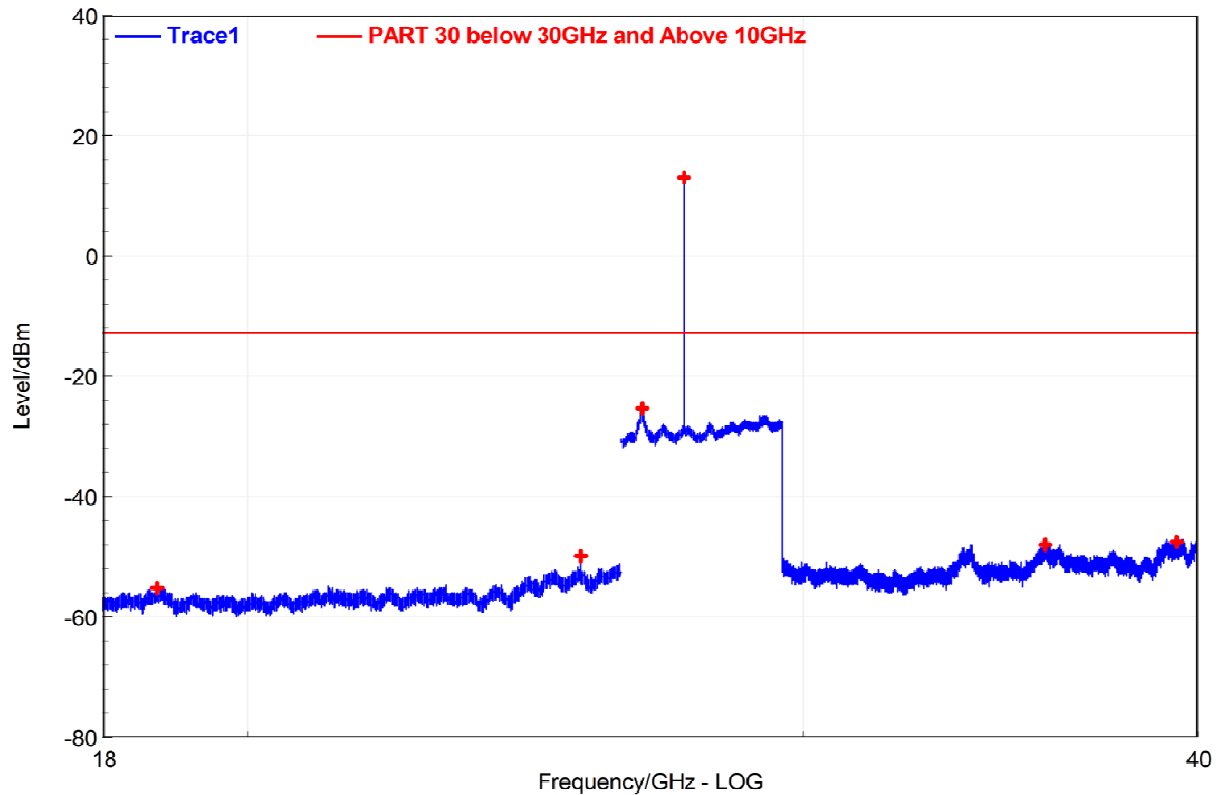
n260 2278749 Beam ID14+142 SCS 120K DFT QPSK RB1@11 EUT-Z ANT-H

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.8175	-55.42	H	-44.66	50.34	-13	42.42
2	26.6845	-50.39	H	-39.9	54.14	-13	37.39
3	31.3765	-51.4	H	-39.92	52.42	-13	38.4
4	33.915	-48.22	H	-38.05	55.83	-13	35.22
5	39.185	-18.06	H	16.72	55.74	-13	5.06
6	39.969	4.93	H	15.78	55.97	N/A	N/A



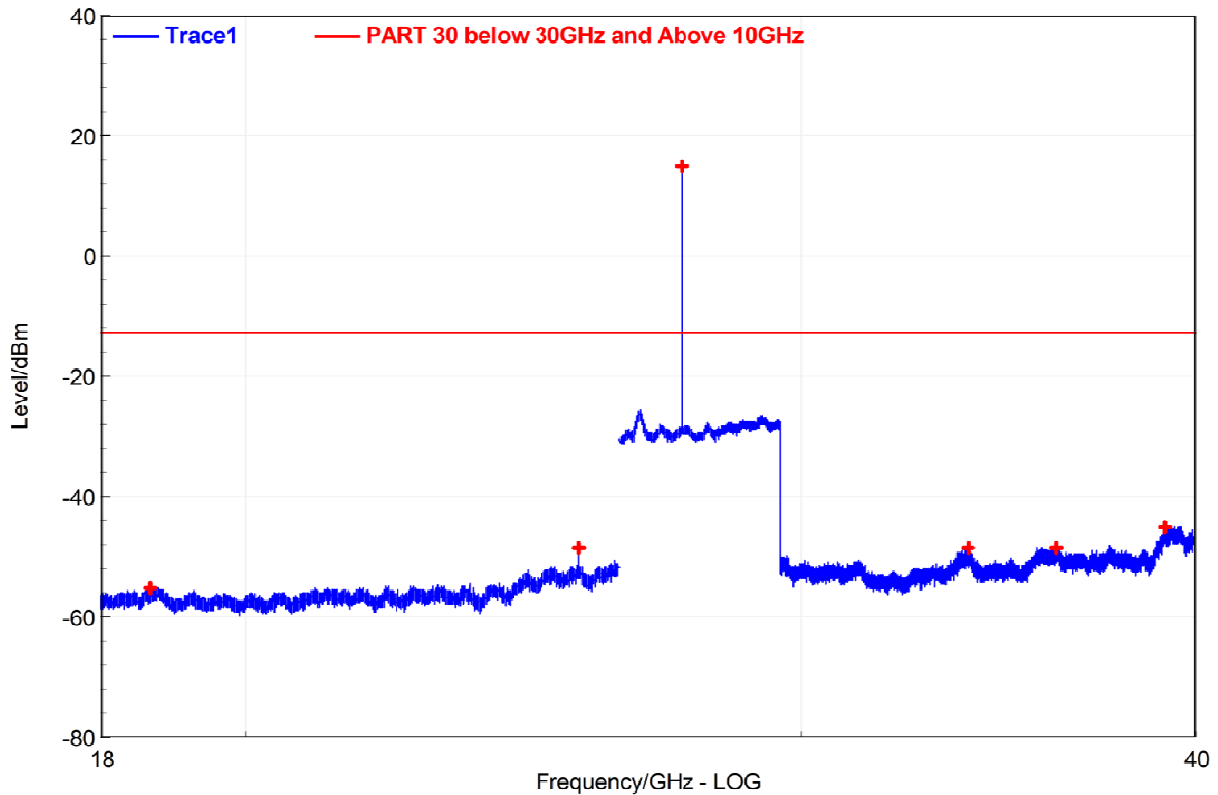
n260 2278749 Beam ID14+142 SCS 120K DFT QPSK RB1@11 EUT-Z ANT-V

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.8175	-55.51	V	-44.66	50.52	-13	42.51
2	26.6915	-50.34	V	-39.84	54.47	-13	37.34
3	33.928	-48.57	V	-38.09	55.21	-13	35.57
4	35.49	-47.94	V	-35.19	53.68	-13	34.94
5	39.1585	-16.17	V	16.51	57.79	-13	3.17
6	39.9685	13.46	V	15.78	57.82	N/A	N/A



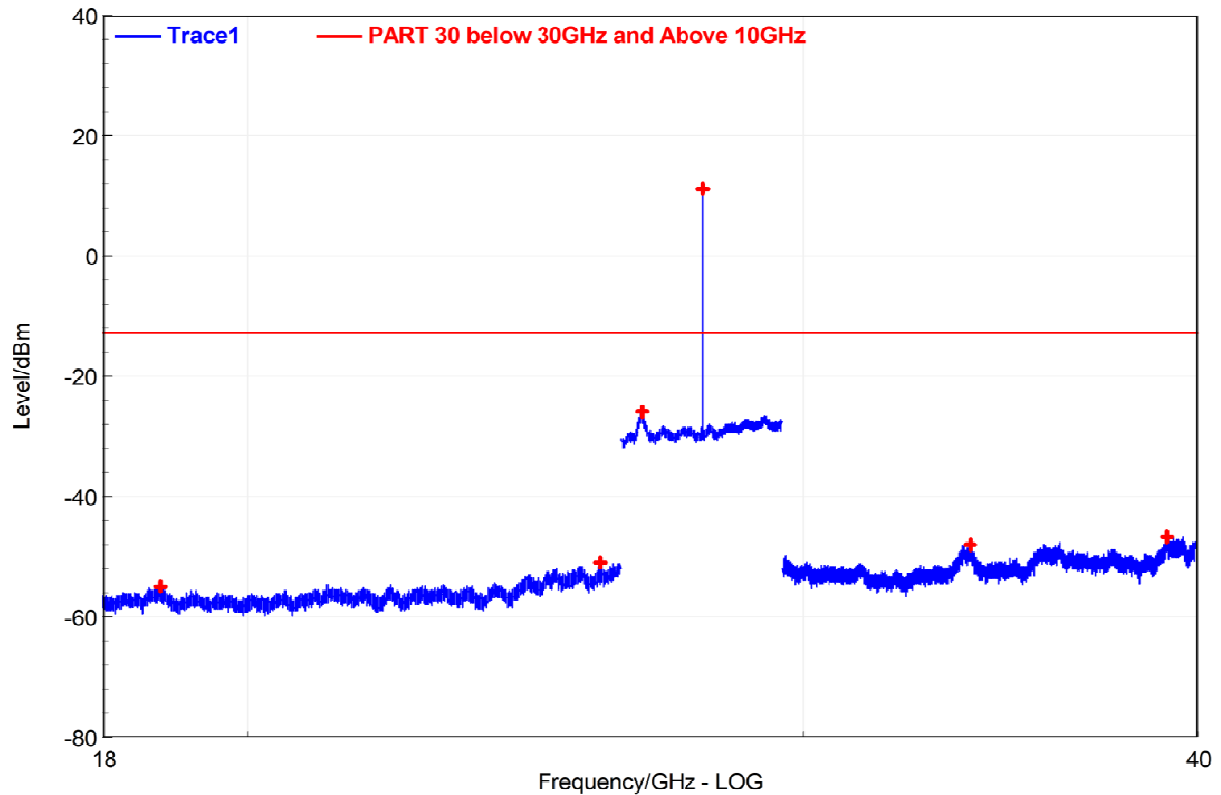
n261 2071667 Beam ID 146 SCS 120K DFT QPSK RB1@22 EUT-Z ANT-H

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.748	-55.39	H	-44.99	50.14	-13	42.39
2	25.5295	-50.08	H	-38.6	50.48	-13	37.08
3	26.706	-25.51	H	12.44	54.06	-13	12.51
4	27.5345	12.85	H	12.69	51.42	N/A	N/A
5	35.805	-48.11	H	-39.19	55.58	-13	35.11
6	39.419	-47.53	H	-38.58	56.15	-13	34.53



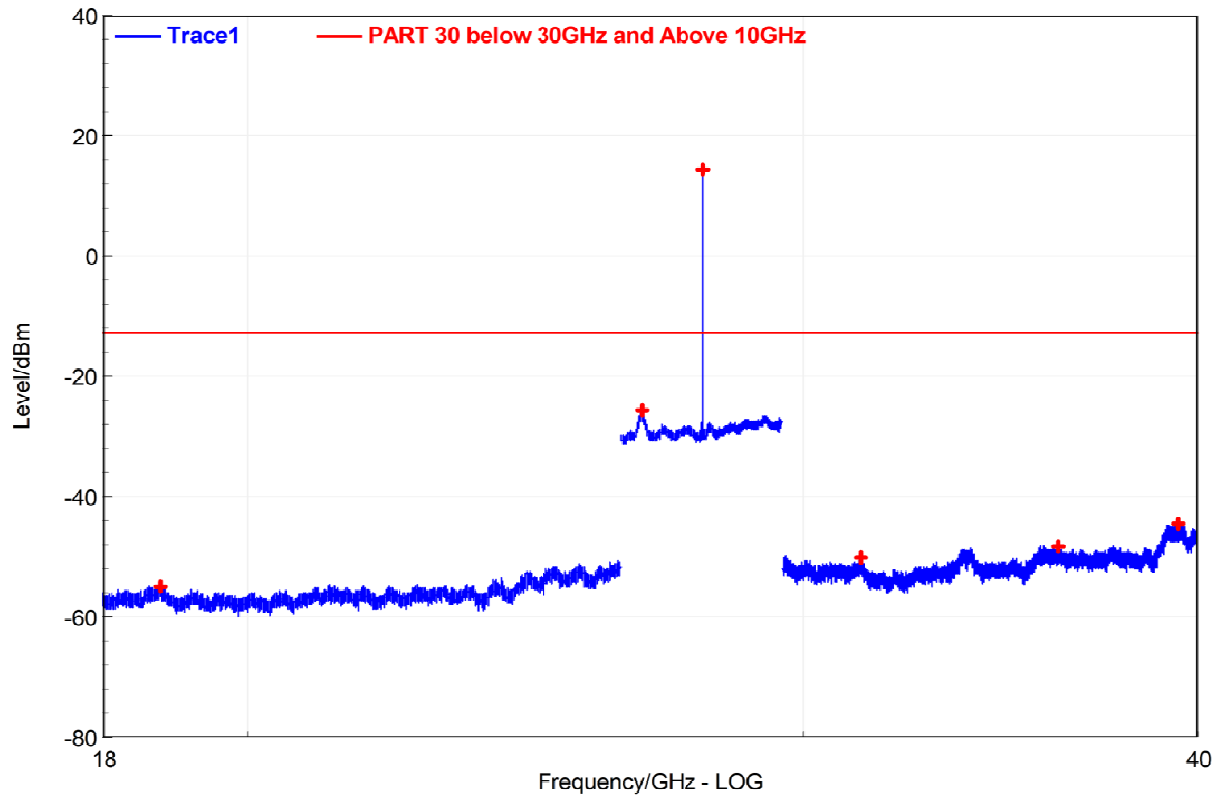
n261 2071667 Beam ID 146 SCS 120K DFT QPSK RB1@22 EUT-Z ANT-V

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.6875	-55.29	V	-45.15	50.51	-13	42.29
2	25.53	-48.73	V	-38.61	50.79	-13	35.73
3	27.5345	14.76	V	12.69	51.47	N/A	N/A
4	33.9085	-48.73	V	-38.77	55.46	-13	35.73
5	36.143	-48.63	V	-38.49	54.47	-13	35.63
6	39.159	-45.15	V	-38.16	57.79	-13	32.15



n261 2077915 Beam ID 146+18 SCS 120K DFT QPSK RB1@22 EUT-Z ANT-H

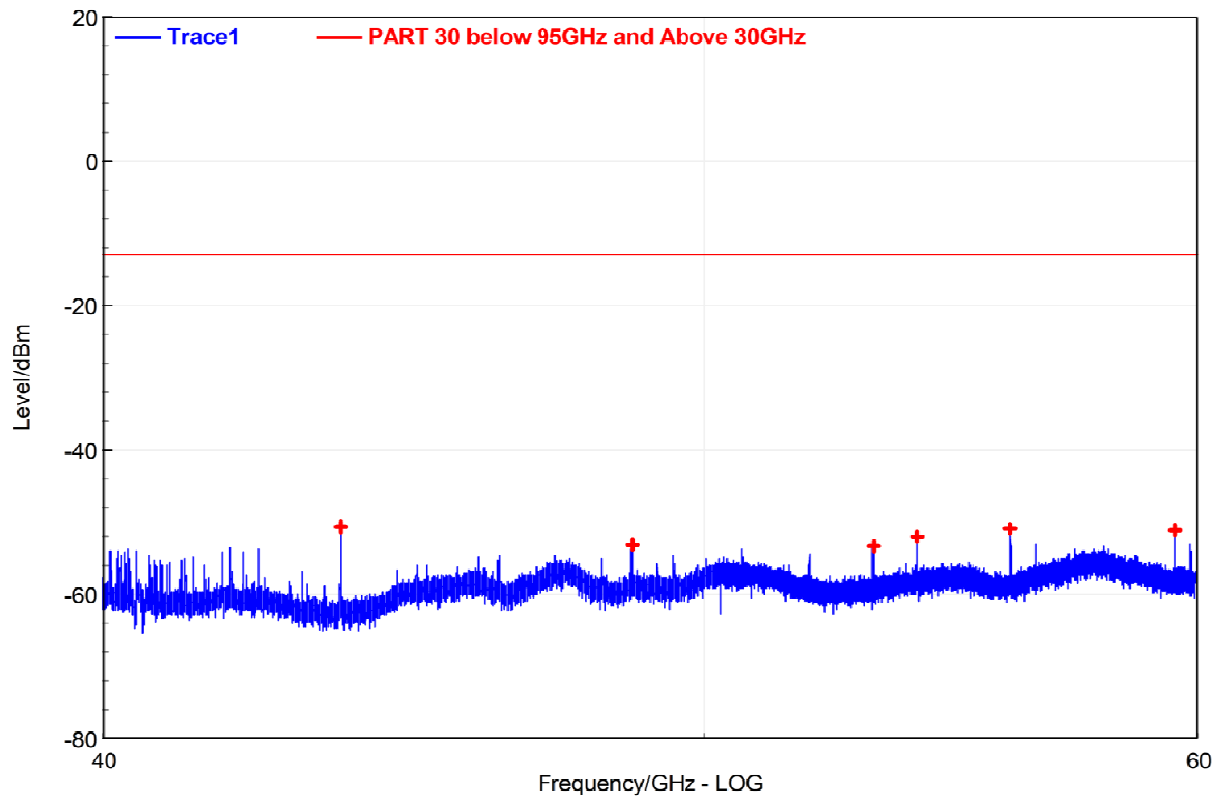
Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.799	-55.01	H	-44.87	50.29	-13	42.01
2	25.907	-50.96	H	-37.61	50.15	-13	37.96
3	26.692	-26.01	H	12.55	54.29	-13	13.01
4	27.9095	10.95	H	12.25	51.15	N/A	N/A
5	33.9165	-48.06	H	-38.76	55.8	-13	35.06
6	39.164	-46.77	H	-38.13	55.65	-13	33.77



n261 2077915 Beam ID 146+18 SCS 120K DFT QPSK RB1@22 EUT-Z ANT-V

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	18.79	-54.95	V	-44.89	50.46	-13	41.95
2	26.689	-25.73	V	12.52	54.42	-13	12.73
3	27.91	14.34	V	12.25	51.35	N/A	N/A
4	31.3055	-50.4	V	-39.92	53.35	-13	37.4
5	36.152	-48.4	V	-38.43	54.44	-13	35.4
6	39.4945	-44.75	V	-38.41	58.48	-13	31.75

40 GHz – 60 GHz



n260 2278749 40G-60G Beam ID14 SCS120K DFT QPSK RB10@11 EUT-Z ANT-H

Order	Frequency (MHz)	Level (dBm)	Antenna Polar	Path Loss (dB)	Corrected Loss (dB)	Limit (dBm)	Margin (dB)
1	43.6935	-50.83	H	-40	50.91	-13	37.83
2	48.6795	-53.19	H	-40.1	51.51	-13	40.19
3	53.22	-53.55	H	-40	51.09	-13	40.55
4	54.09	-52	H	-40	50.82	-13	39
5	56.0065	-50.99	H	-39.91	51.07	-13	37.99
6	59.524	-51.22	H	-40.82	52.47	-13	38.22
7	43.6935	-50.83	H	-40	50.91	-13	37.83
8	48.6795	-53.19	H	-40.1	51.51	-13	40.19