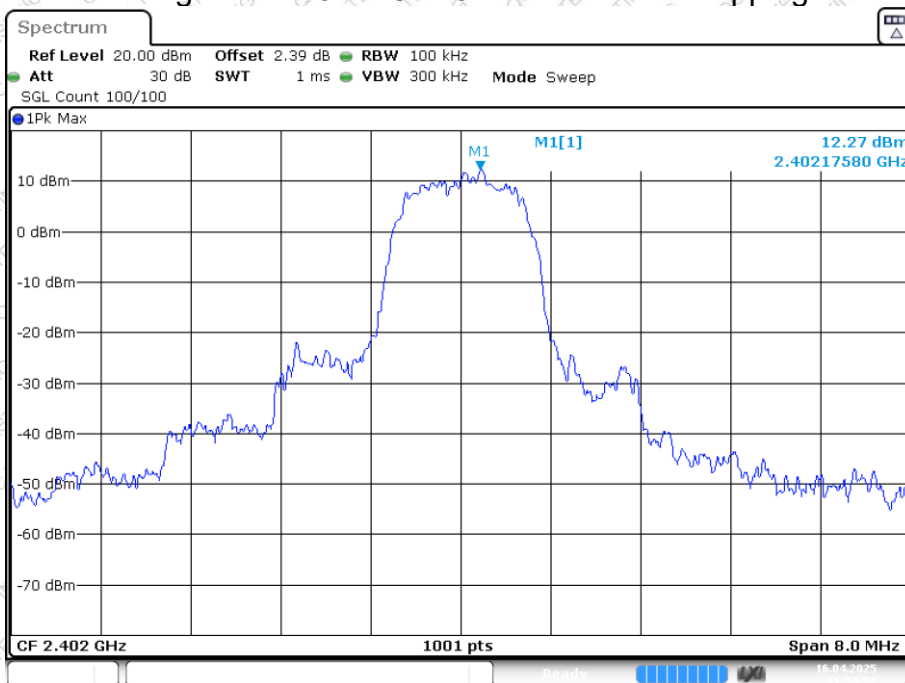


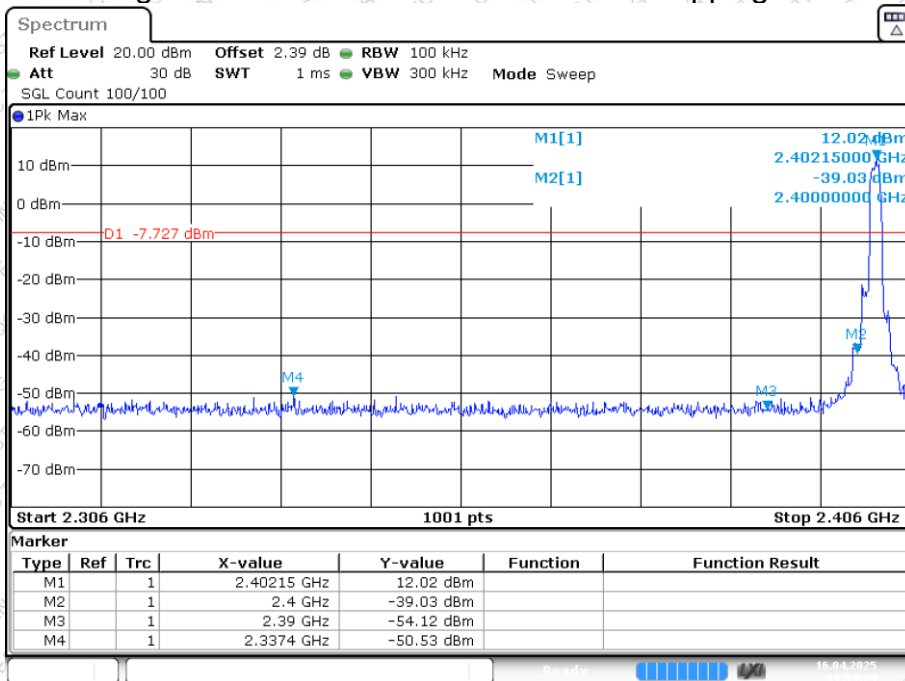


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Date: 16.APR.2025 11:54:22

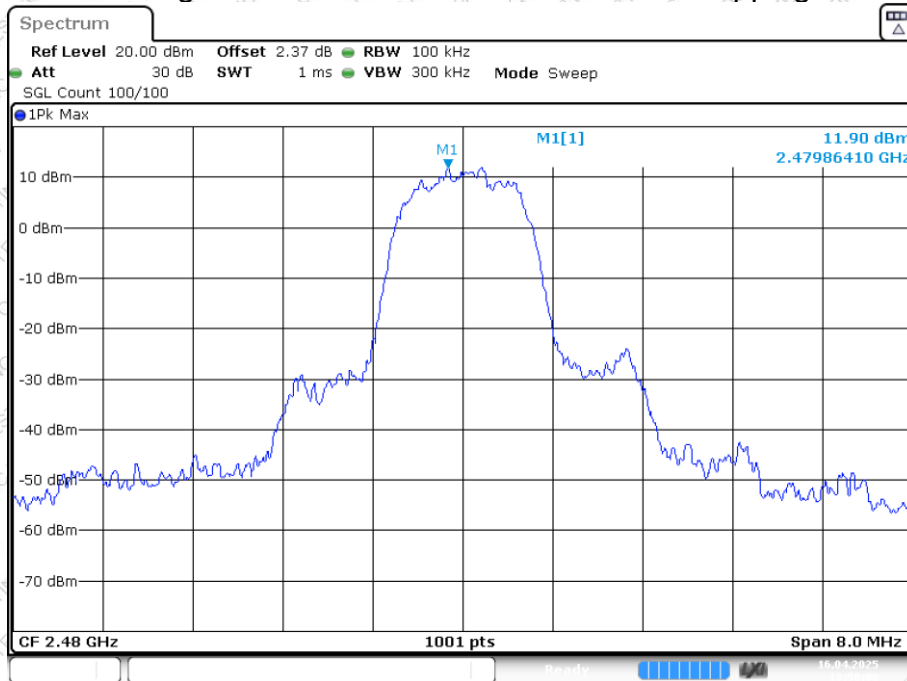
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Date: 16.APR.2025 11:54:24

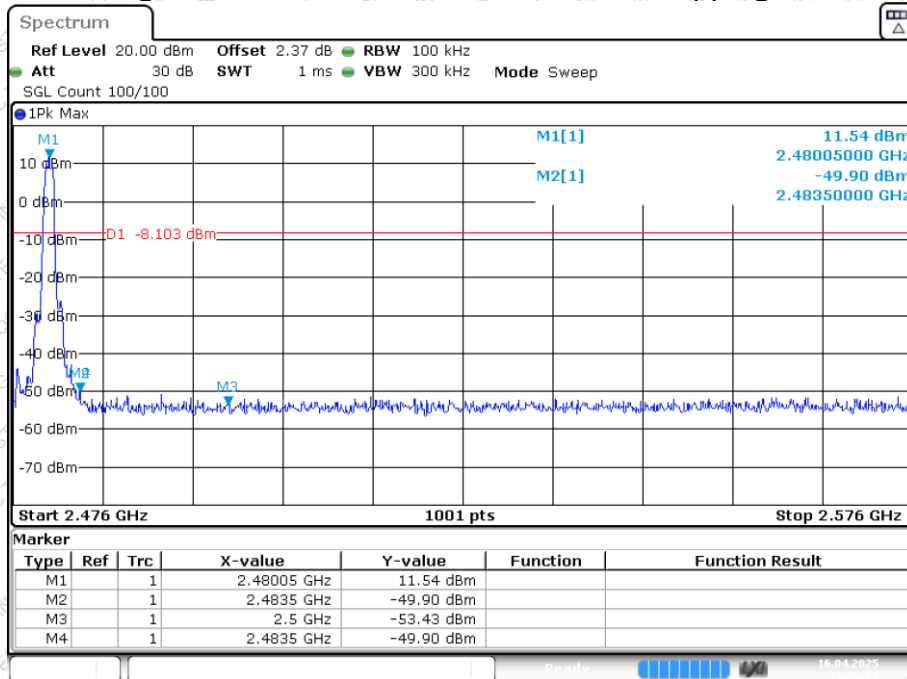


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Date: 16.APR.2025 13:50:01

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



Date: 16.APR.2025 13:50:02



Band Edge(Hopping):

Modulation	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-58.64	-20	Pass
1-DH5	2480	Hopping	-65.25	-20	Pass
2-DH5	2402	Hopping	-61.08	-20	Pass
2-DH5	2480	Hopping	-61.79	-20	Pass
3-DH5	2402	Hopping	-61.13	-20	Pass
3-DH5	2480	Hopping	-61.07	-20	Pass

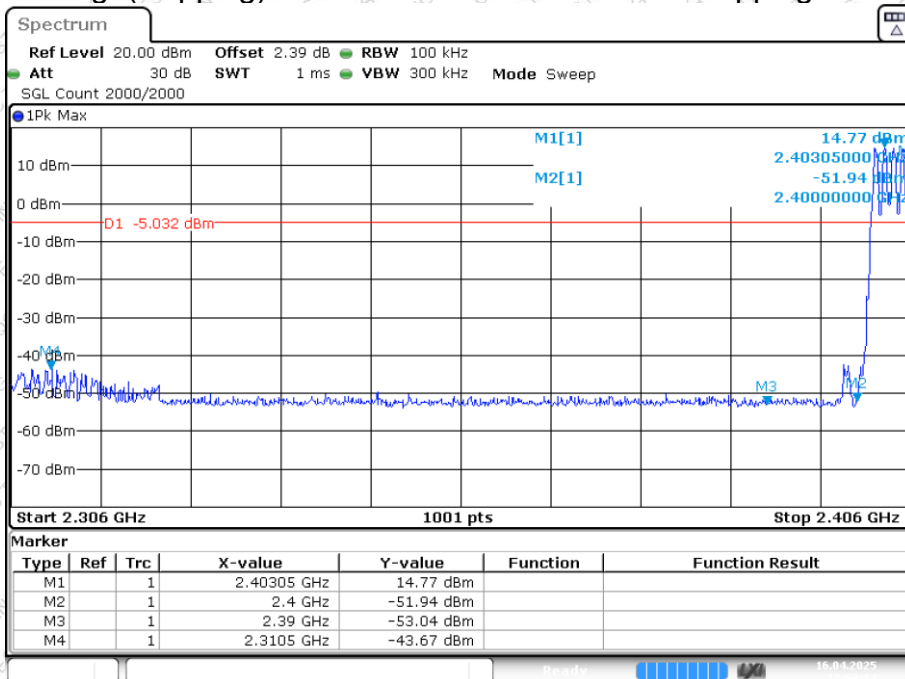


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Date: 16.APR.2025 13:53:03

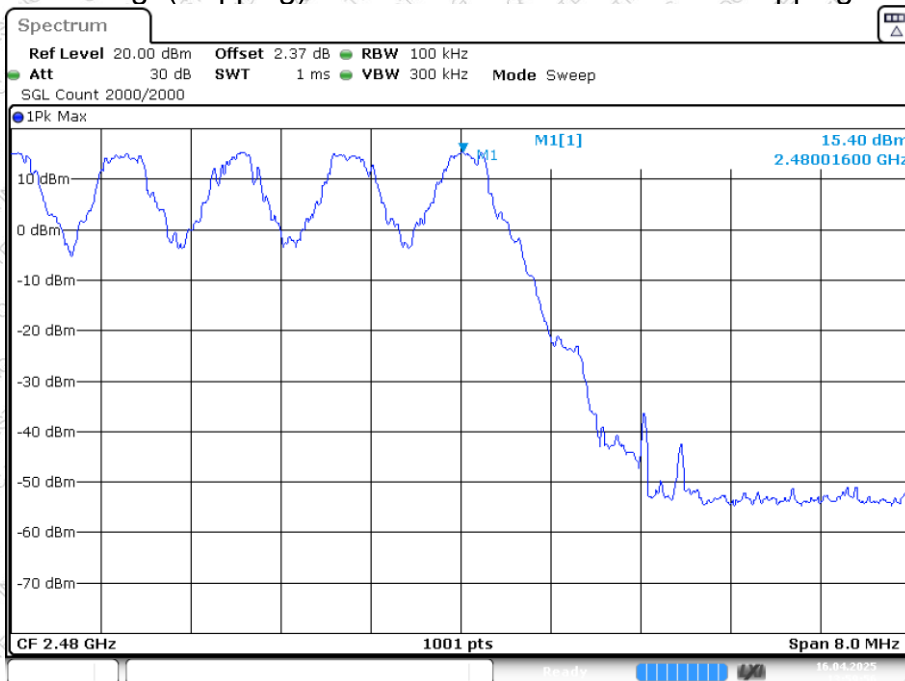
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Date: 16.APR.2025 13:53:14

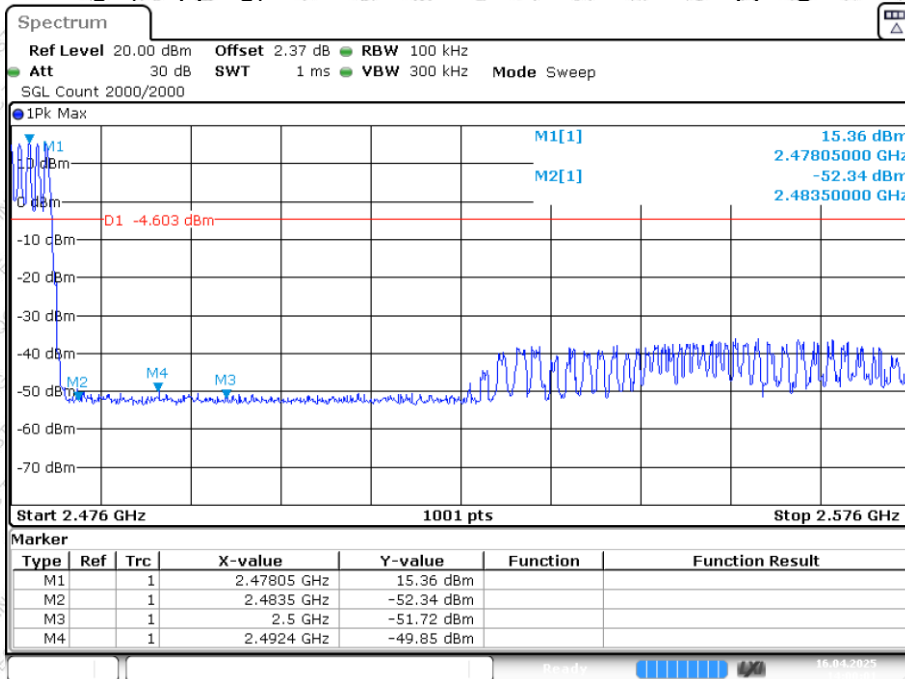


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Date: 16.APR.2025 13:59:56

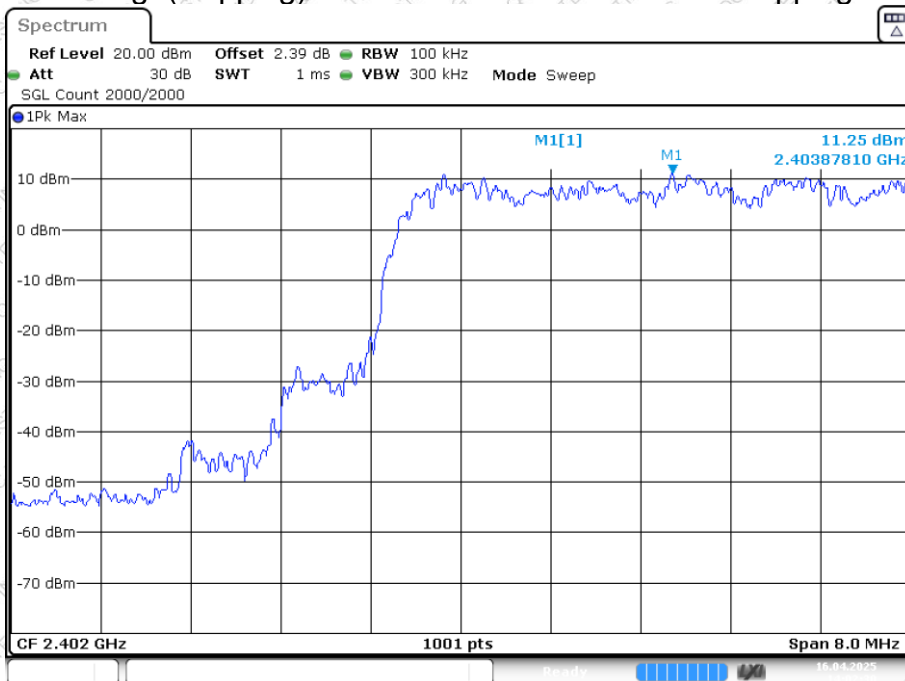
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Date: 16.APR.2025 14:00:02

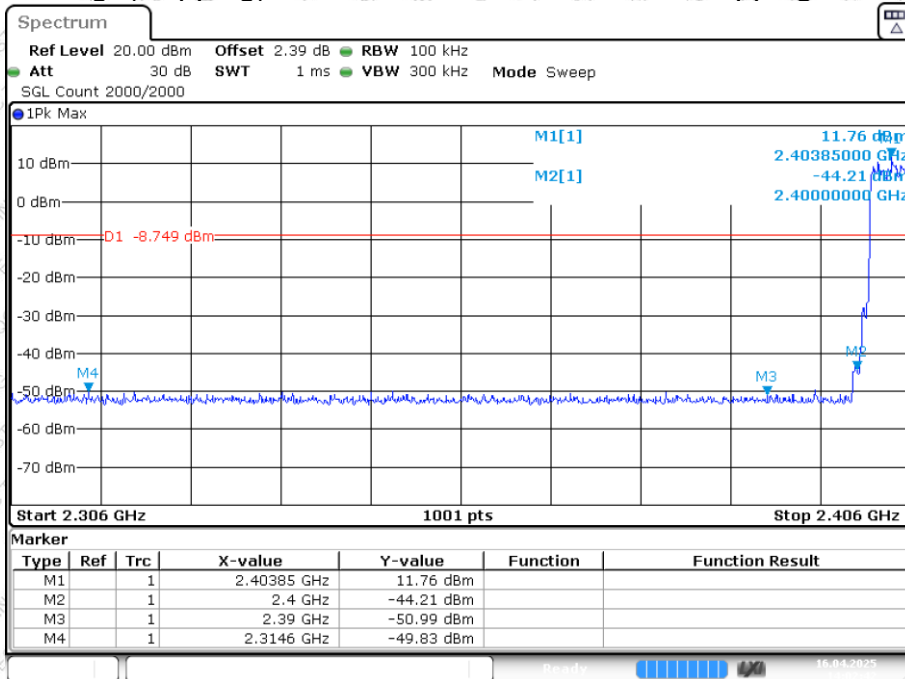


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Date: 16.APR.2025 14:02:31

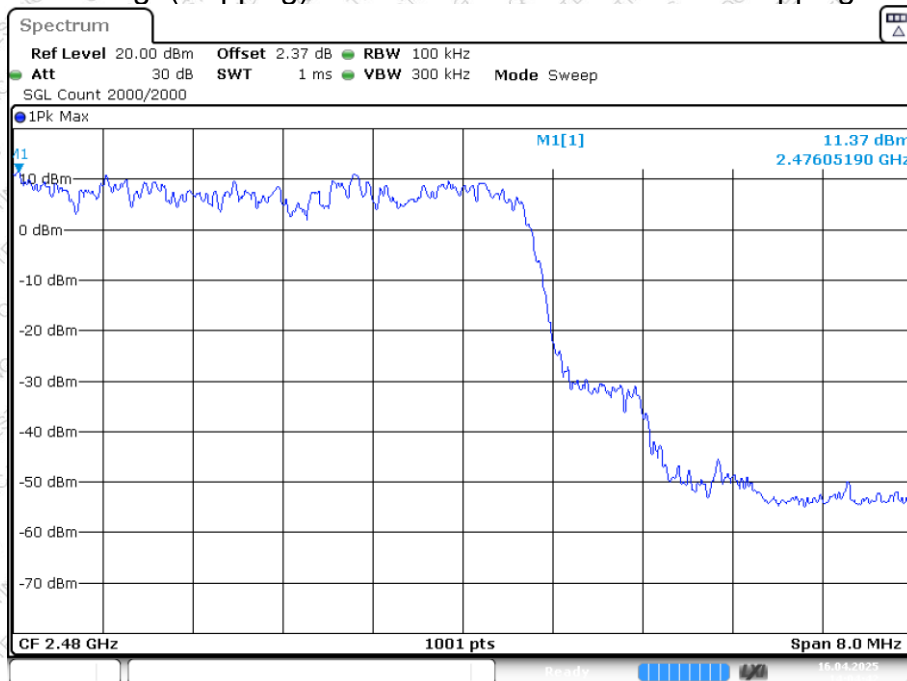
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



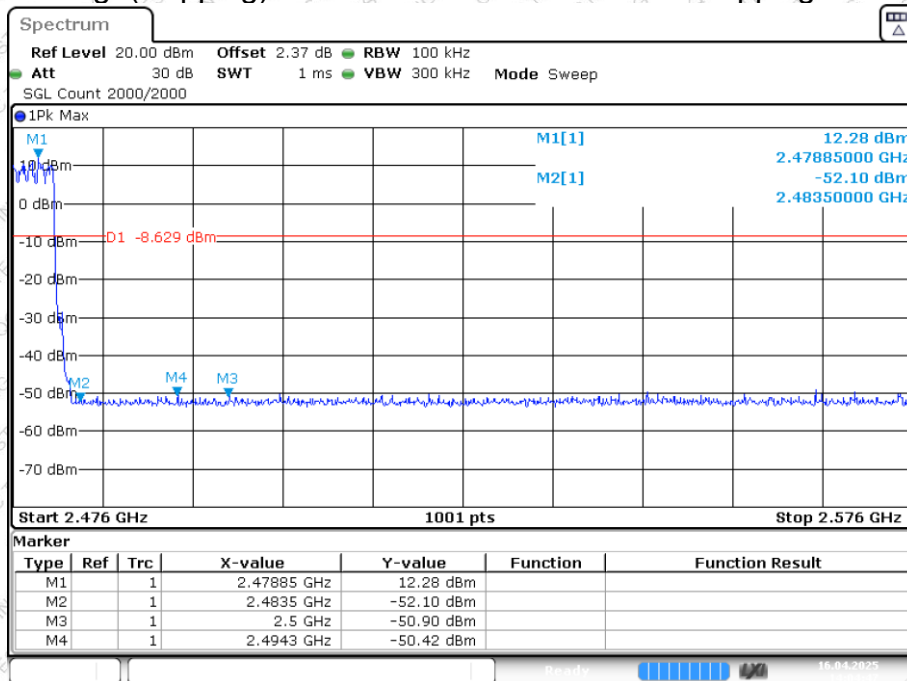
Date: 16.APR.2025 14:02:42



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

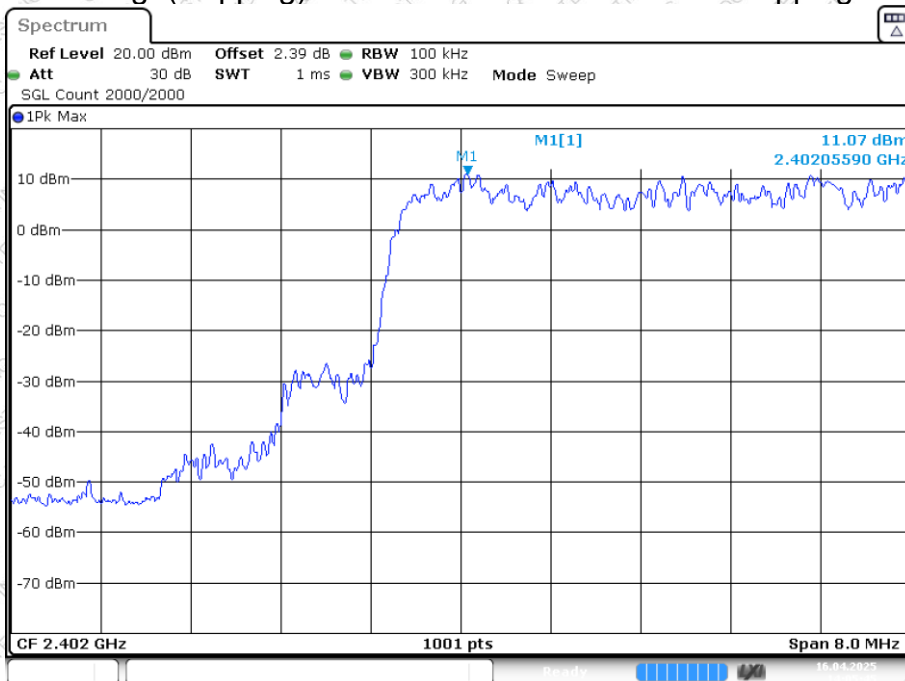


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

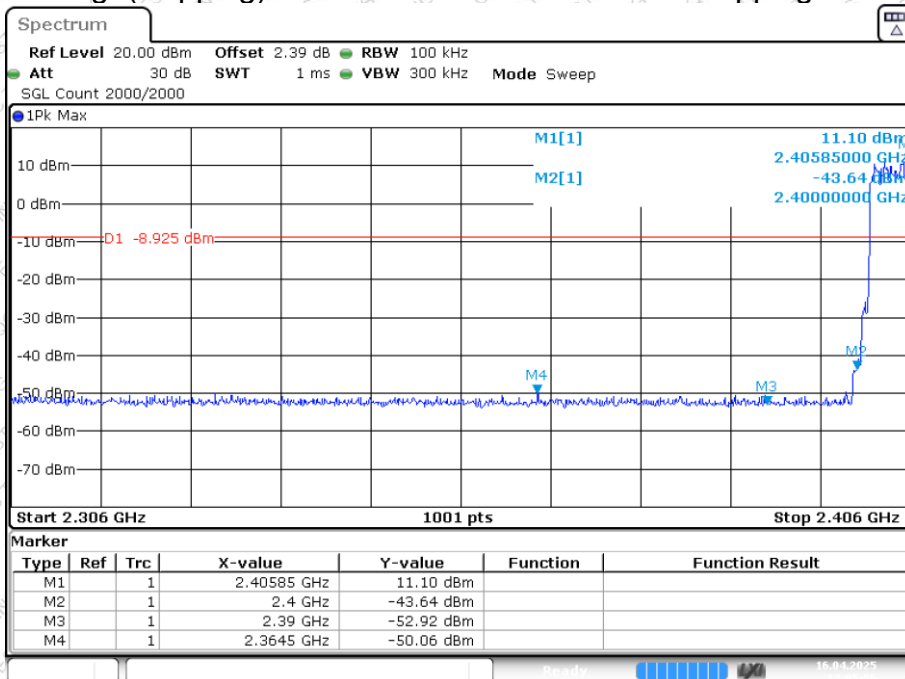




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

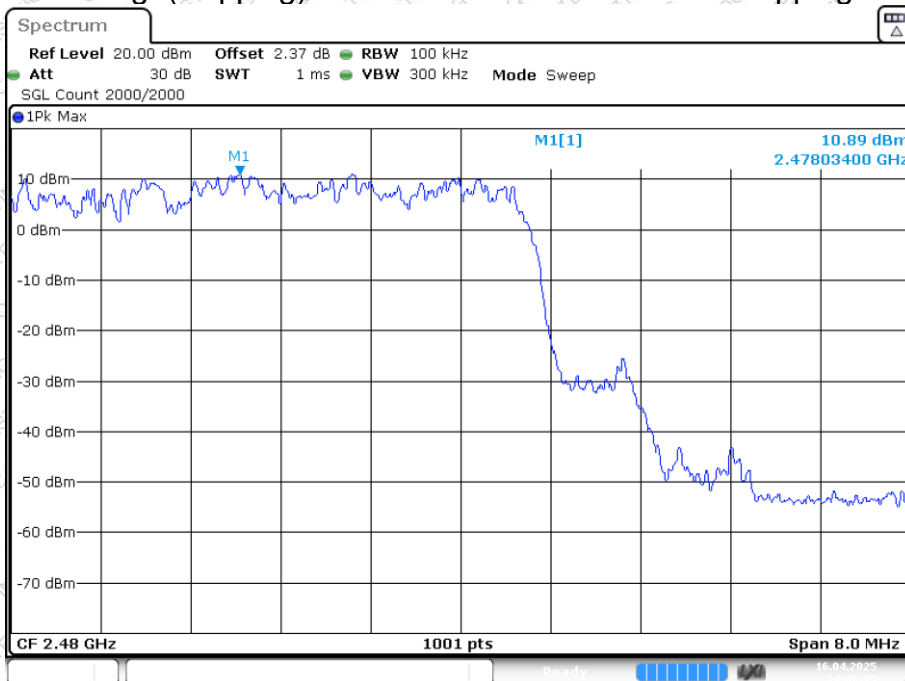


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



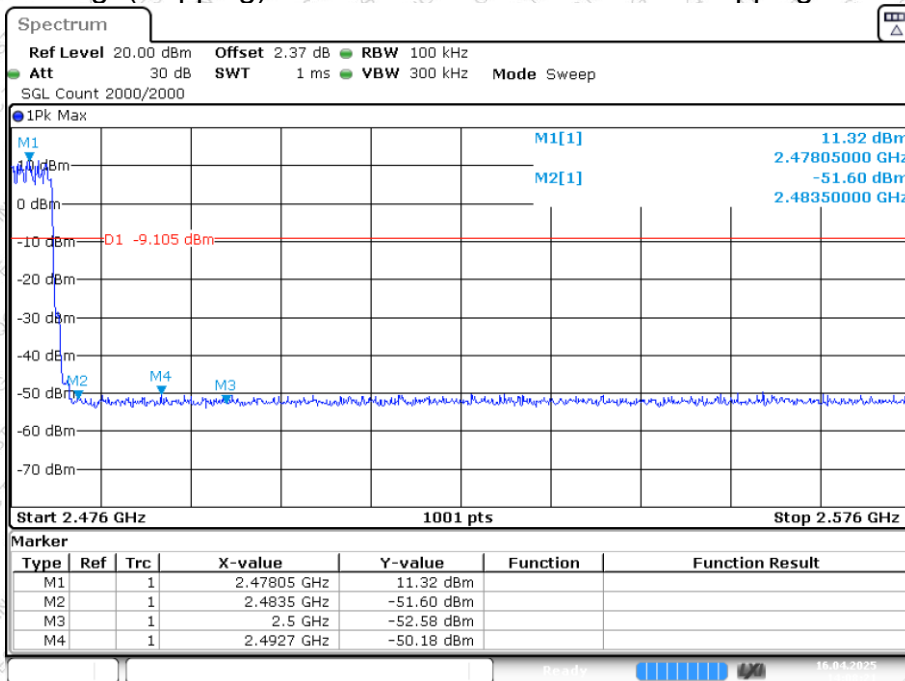


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Date: 16.APR.2025 14:08:16

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



Date: 16.APR.2025 14:08:21

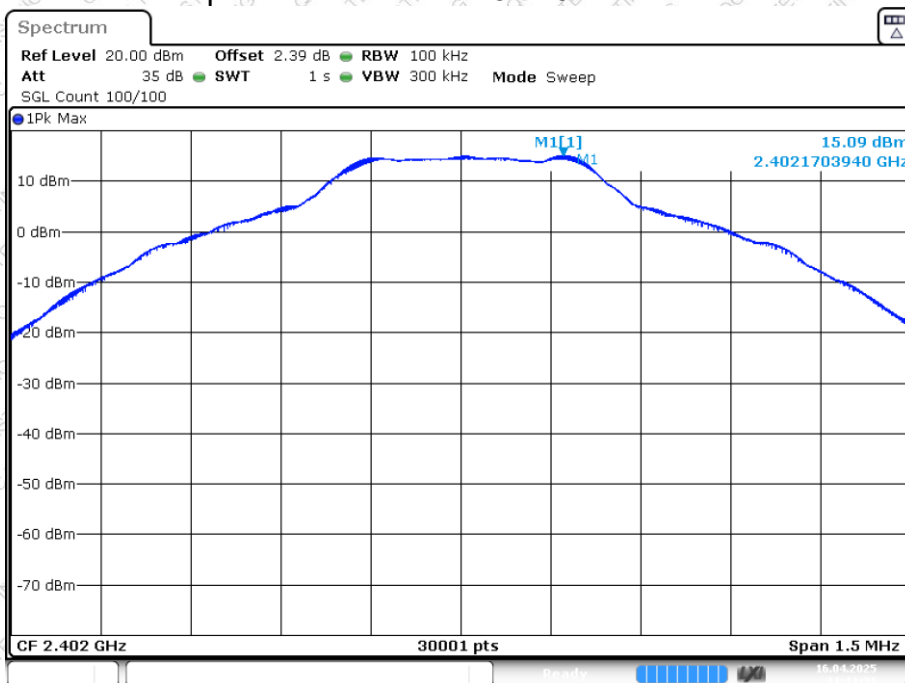


Conducted RF Spurious Emission:

Modulation	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-49.98	-20	Pass
1-DH5	2441	-54.07	-20	Pass
1-DH5	2480	-54.82	-20	Pass
2-DH5	2402	-50.04	-20	Pass
2-DH5	2441	-51.56	-20	Pass
2-DH5	2480	-50.57	-20	Pass
3-DH5	2402	-50.39	-20	Pass
3-DH5	2441	-51.69	-20	Pass
3-DH5	2480	-51.55	-20	Pass

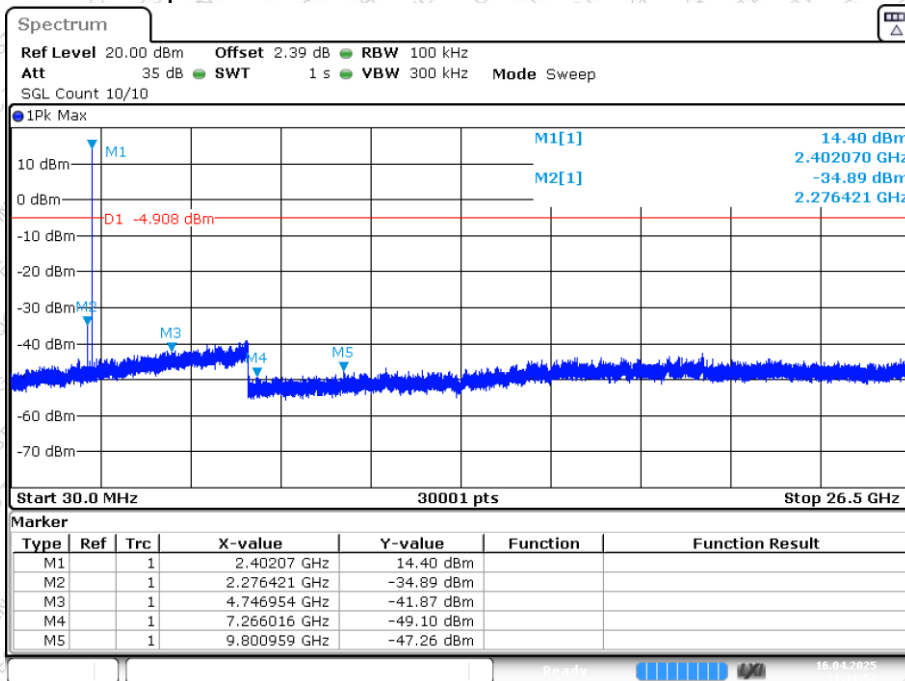


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Date: 16.APR.2025 11:11:31

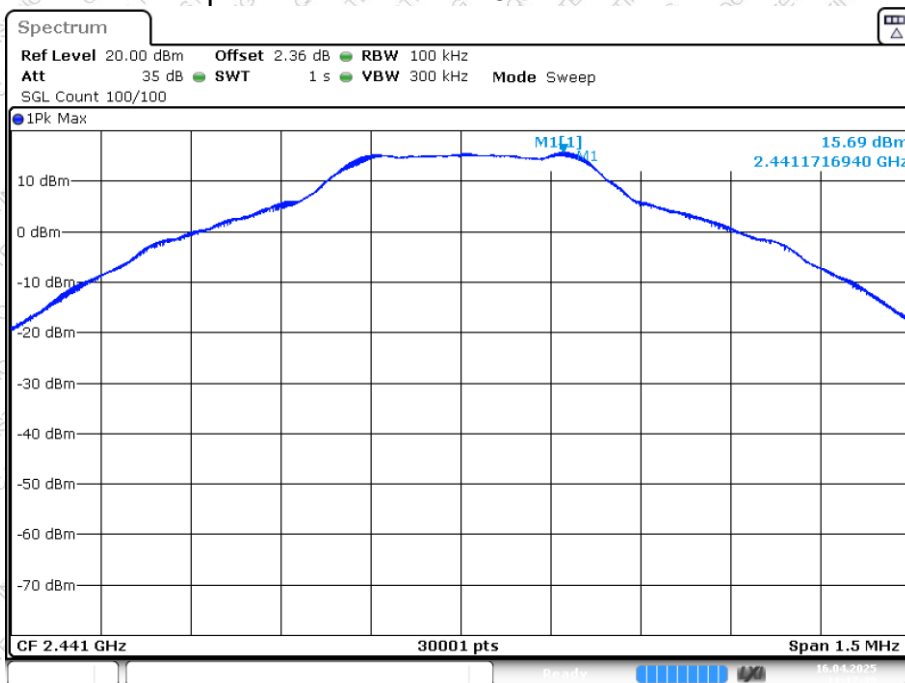
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



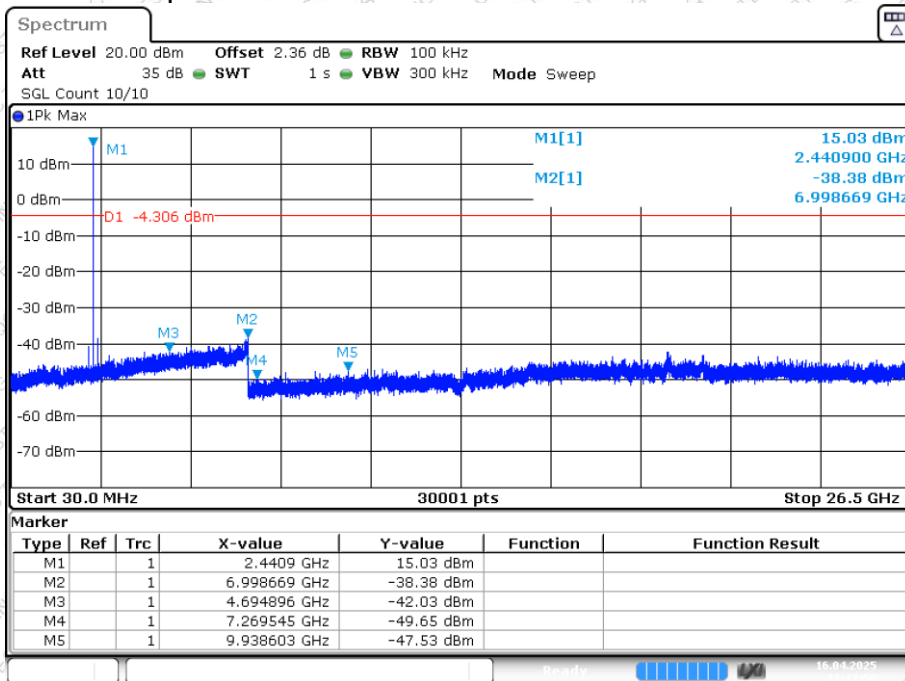
Date: 16.APR.2025 11:11:51



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



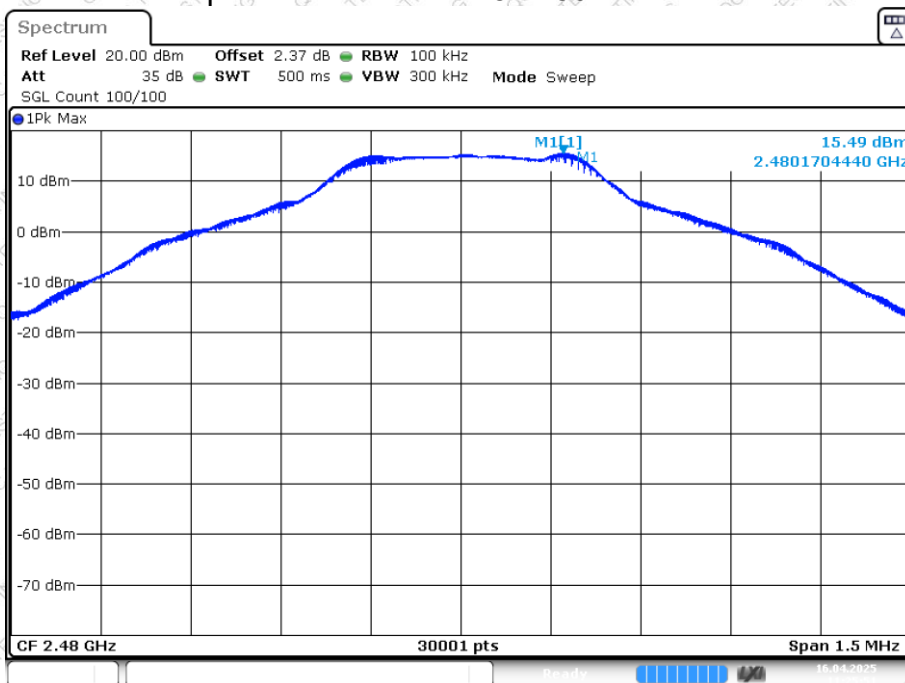
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4409 GHz	15.03 dBm		
M2		1	6.998669 GHz	-38.38 dBm		
M3		1	4.694896 GHz	-42.03 dBm		
M4		1	7.269545 GHz	-49.65 dBm		
M5		1	9.938603 GHz	-47.53 dBm		

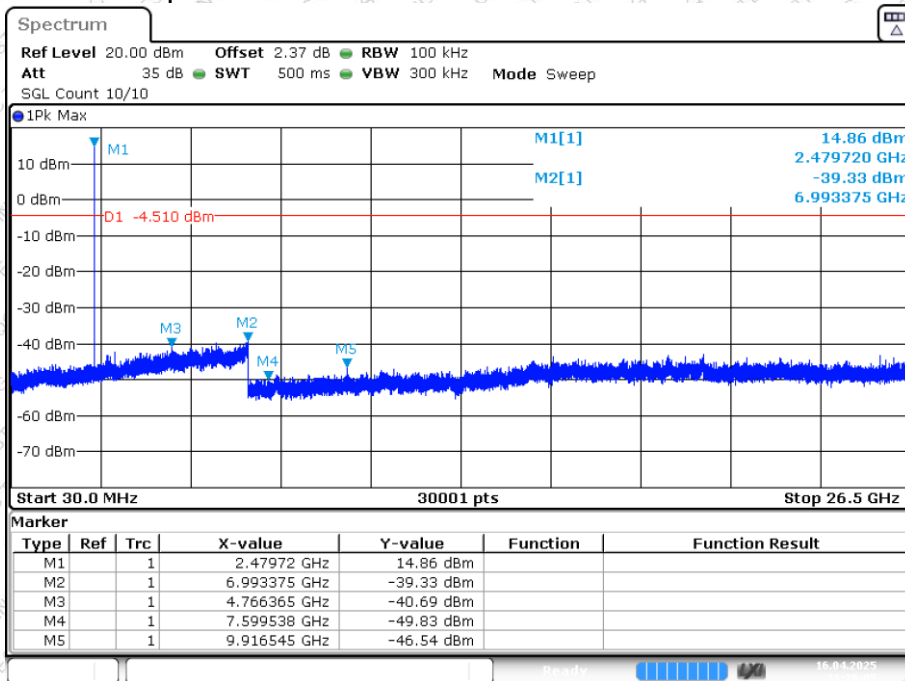


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Date: 16.APR.2025 11:25:51

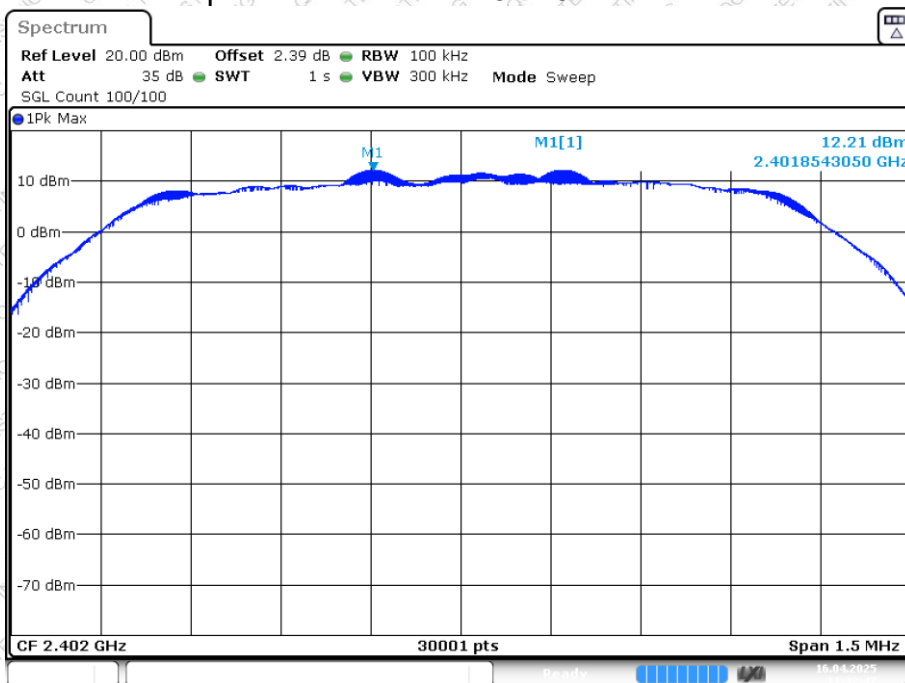
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



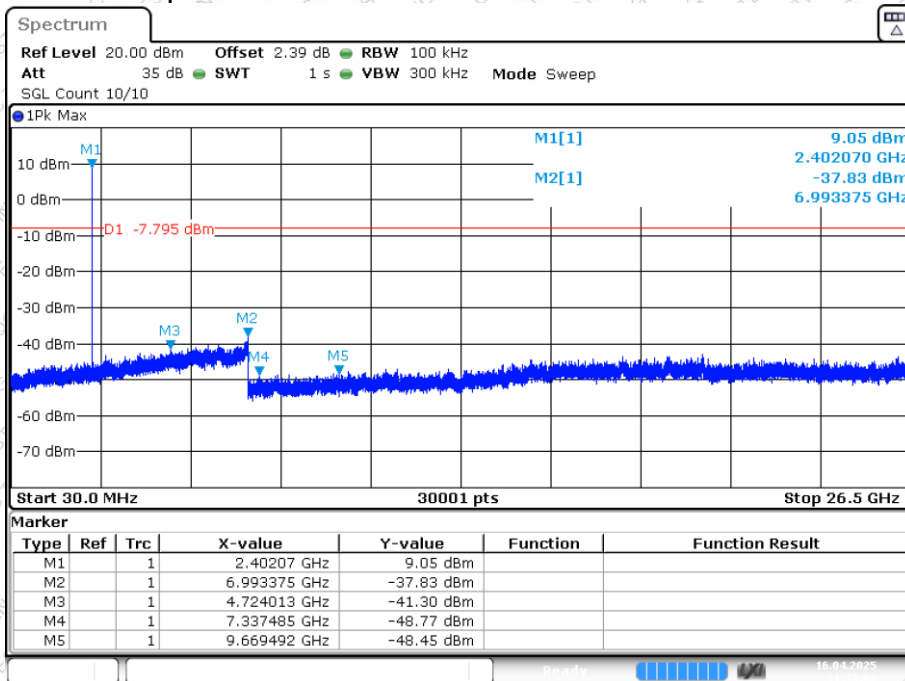
Date: 16.APR.2025 11:26:05



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

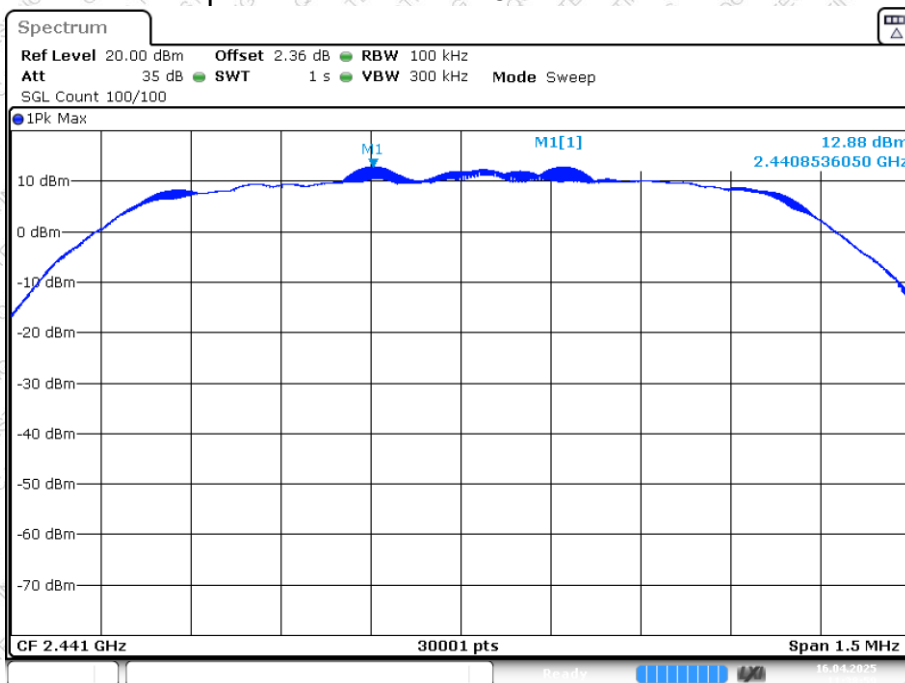


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



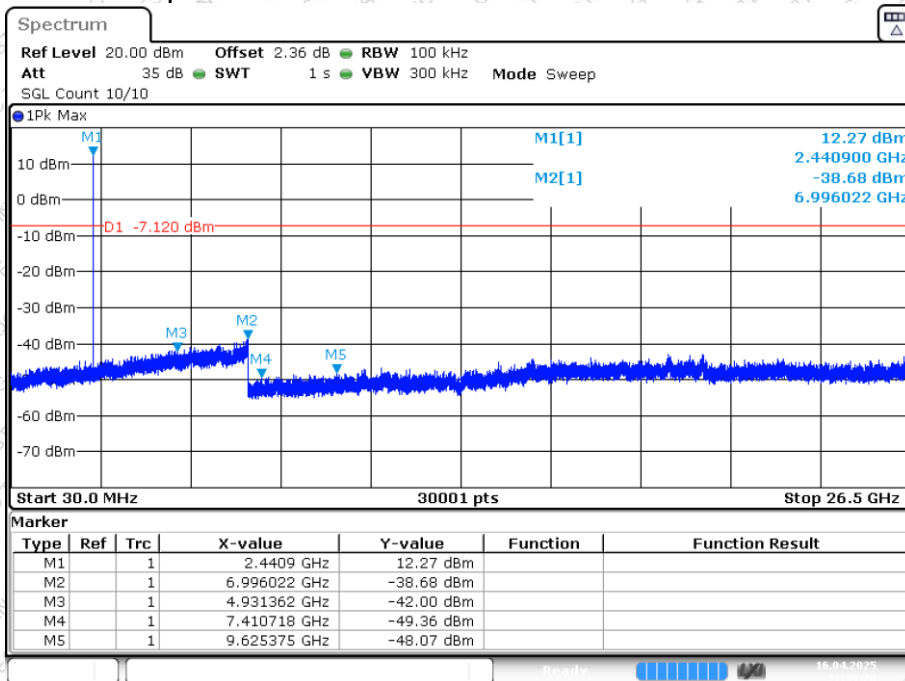


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Date: 16.APR.2025 11:39:00

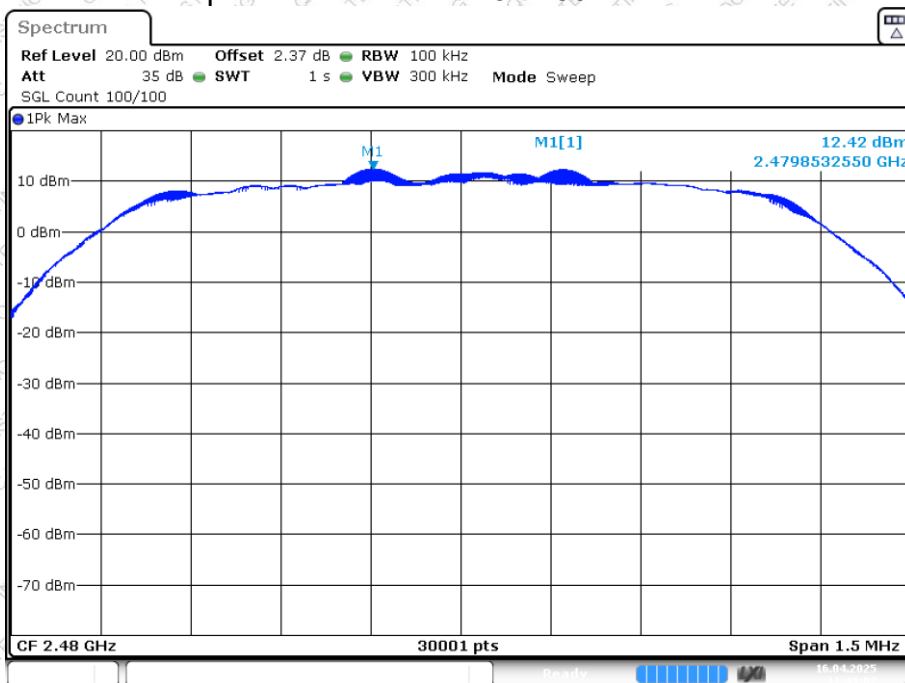
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Date: 16.APR.2025 11:39:20

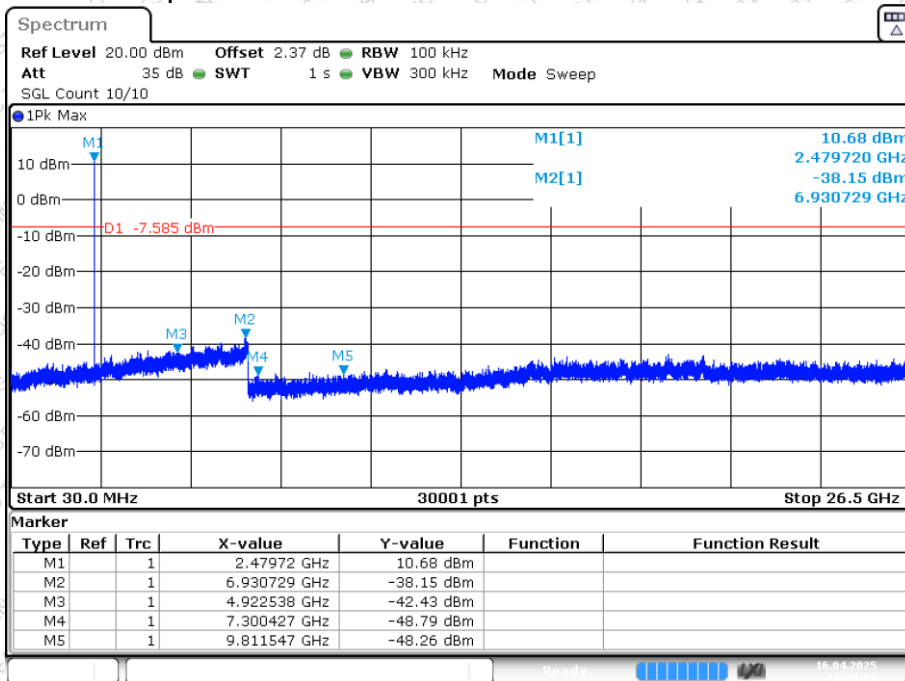


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Date: 16.APR.2025 11:49:02

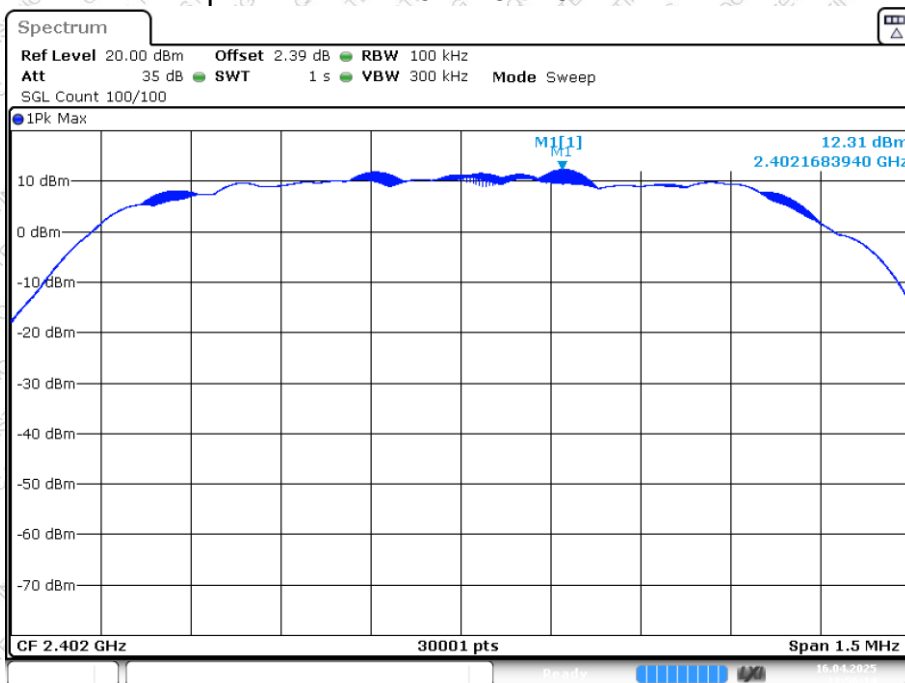
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



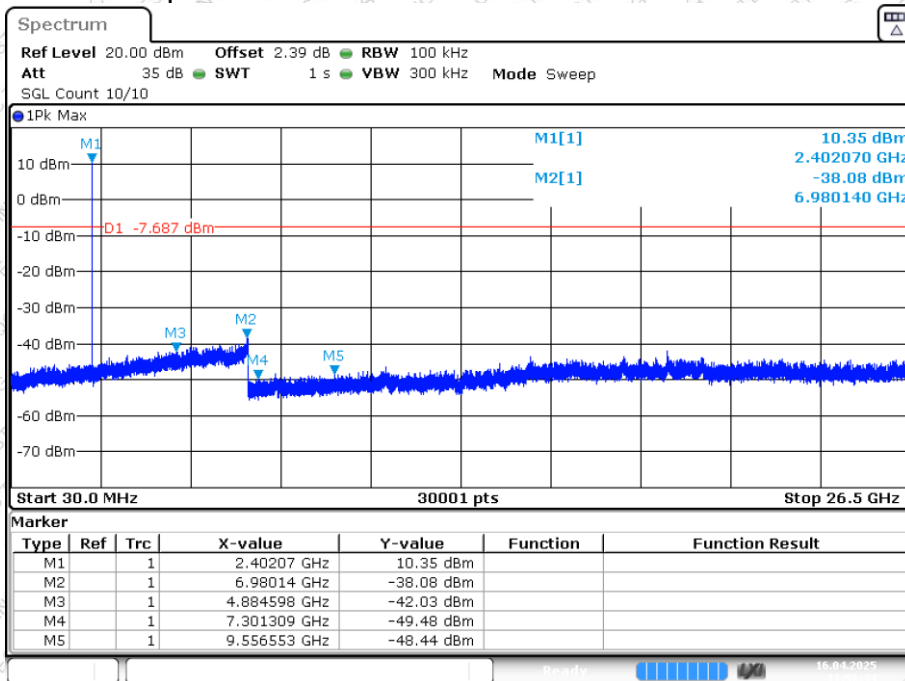
Date: 16.APR.2025 11:49:22



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

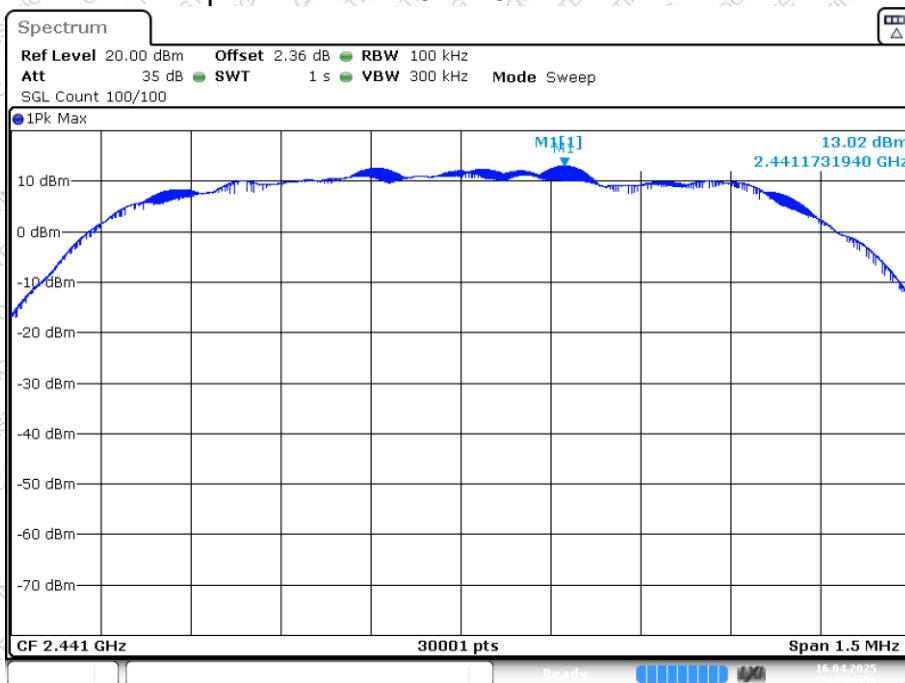


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



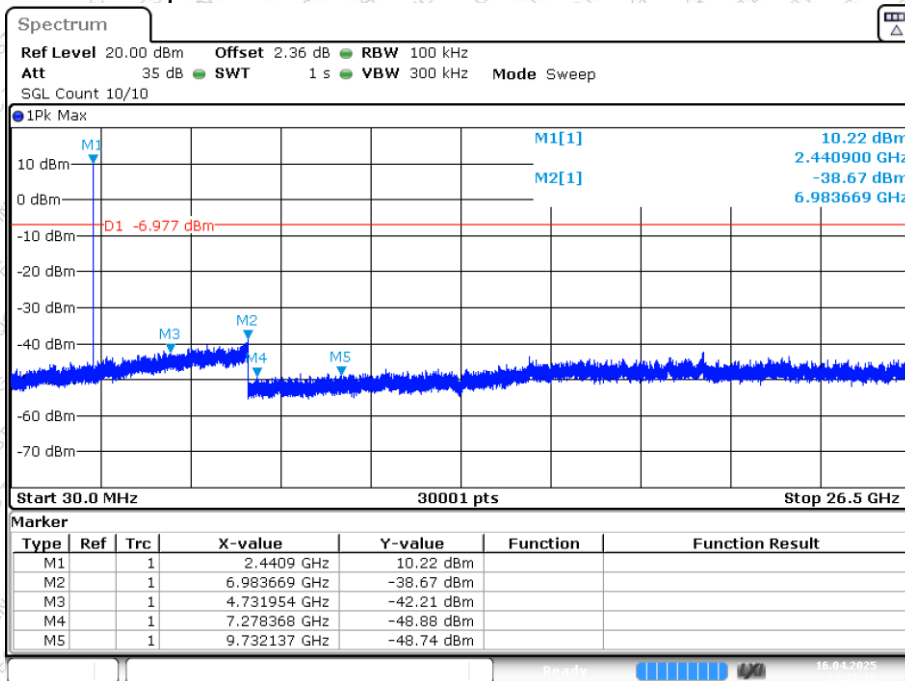


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Date: 16.APR.2025 12:26:56

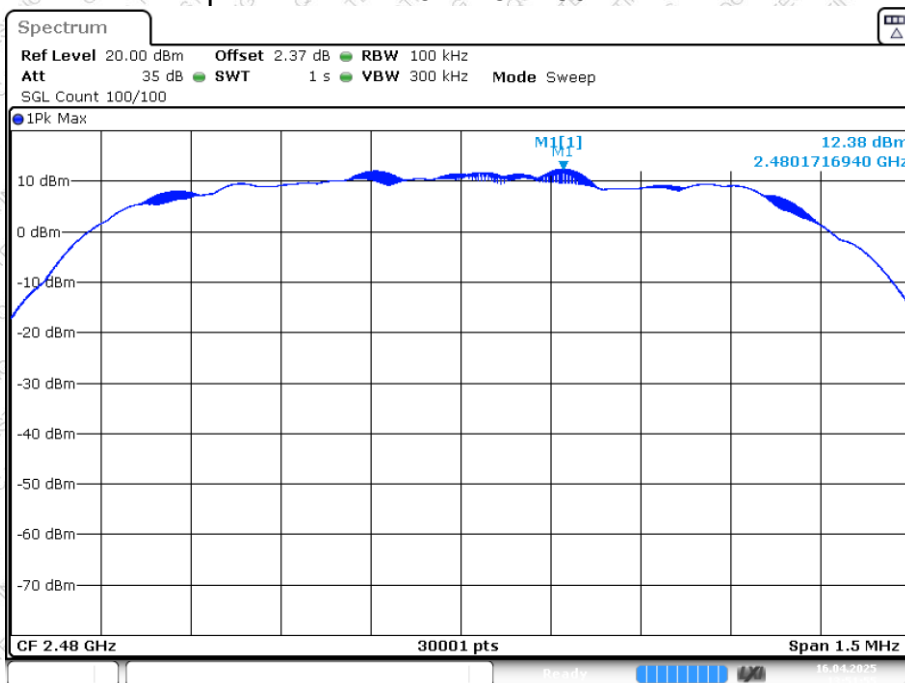
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Date: 16.APR.2025 12:27:16

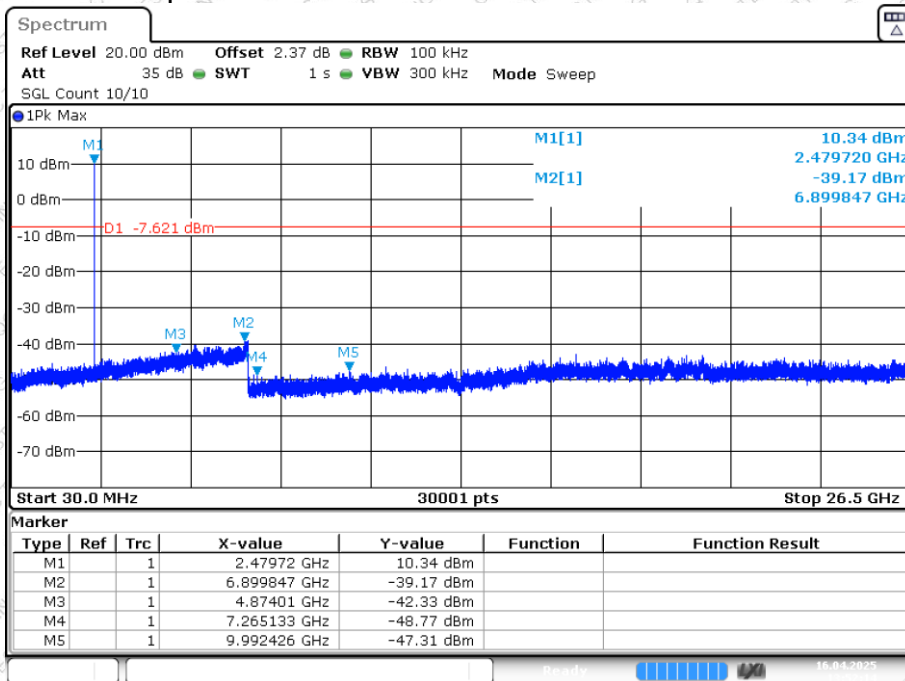


Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Date: 16.APR.2025 13:51:55

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



Date: 16.APR.2025 13:52:14

10.2 Radiated Emission Method

10.2.1 Applicable Standard

FCC Part15 C Section 15.209 and 15.205

10.2.2 Limit

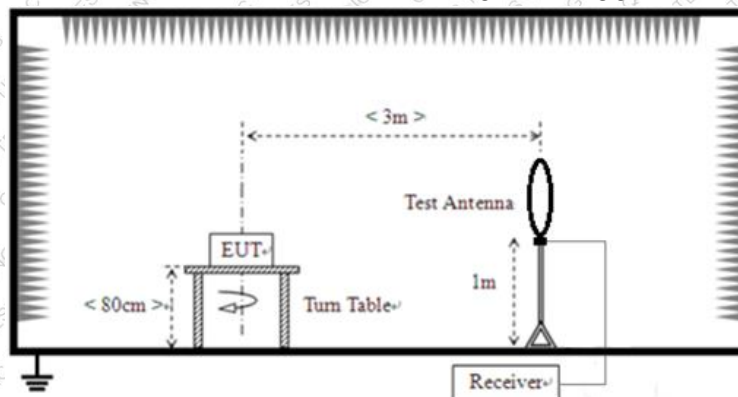
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	30m
1.705MHz-30MHz	30	QP	30m

Frequency	Field Strengths Limits (uV/m at 3 m)	Field Strengths Limits (dBuV/m at 3 m)	Remark
30 – 88	100	40.0	Quasi-peak
88 – 216	150	43.5	Quasi-peak
216 – 960	200	46.0	Quasi-peak
Above 960	500	54.0	Quasi-peak
Above 1GHz	/	54.0	Peak
		74.0	Average

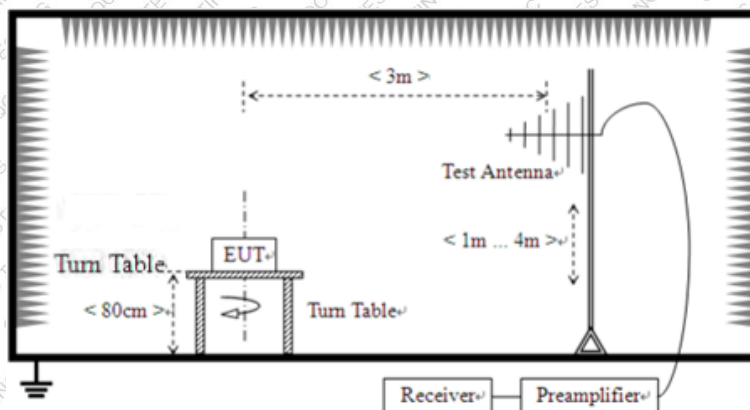
Note: $\text{dBuV/m} = 20 \log(\mu\text{V/m})$

10.2.3 Test setup

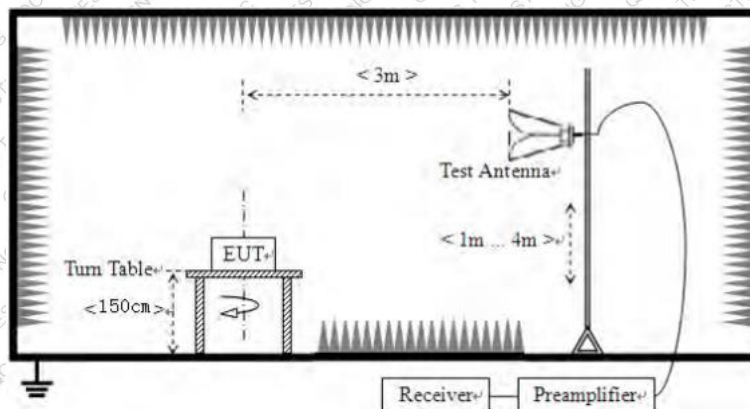
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions from above 1GHz



10.2.4 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	/	QP
150KHz-30MHz	9KHz	30KHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	Average

Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.

10.2.5 Test procedure

- The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

10.2.6 Test Data

Temperature	25 °C	Humidity	49%
ATM Pressure	101.1kPa	Antenna Gain	-1.4dBi
Test by	LBi Li	Test result	PASS

Test voltage: DC 3.7V.

Remarks:

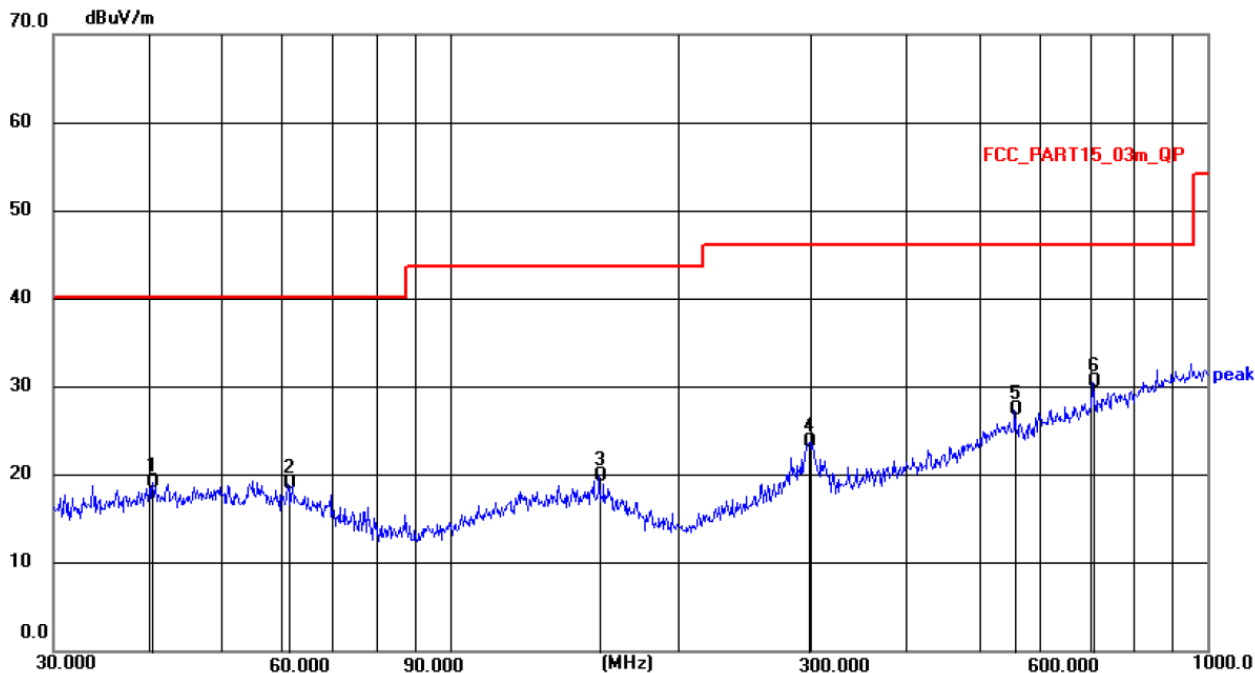
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



Below 1GHz

Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of GFSK 2402MHz.

Horizontal:

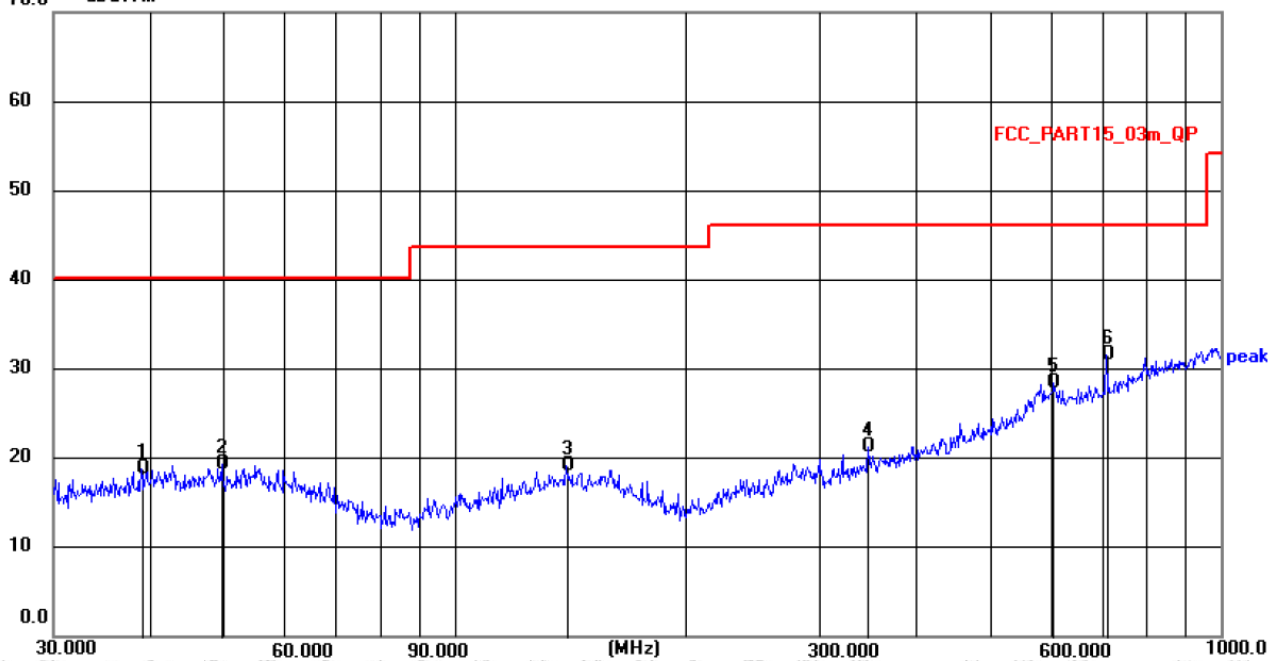


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.5591	4.31	14.78	19.09	40.00	20.91	QP
2	61.1316	5.21	13.72	18.93	40.00	21.07	QP
3	157.5588	5.16	14.68	19.84	43.50	23.66	QP
4	298.2681	9.14	14.55	23.69	46.00	22.31	QP
5	556.7744	6.63	20.71	27.34	46.00	18.66	QP
6 *	706.6999	7.38	23.08	30.46	46.00	15.54	QP



Vertical:

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.0243	4.52	14.36	18.88	40.00	21.12	QP
2	49.7066	4.87	14.45	19.32	40.00	20.68	QP
3	139.8507	4.81	14.30	19.11	43.50	24.39	QP
4	346.8091	5.45	15.82	21.27	46.00	24.73	QP
5	605.6592	6.98	21.40	28.38	46.00	17.62	QP
6 *	709.1821	8.62	22.97	31.59	46.00	14.41	QP



Above 1GHz

Pre-scan all test modes, found worst case at GFSK Mode, and so only show the test result of GFSK Mode.

Test channel: Lowest channel

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
2310	56.71	H	-22.55	34.16	74	39.84	peak
2310	56.39	V	-22.55	33.84	74	40.16	peak
2360.2	64.69	H	-22.46	42.23	74	31.77	peak
2328	63.89	V	-22.51	41.38	74	32.62	peak
2390	65.2	H	-22.39	42.81	74	31.19	peak
2390	56.26	V	-22.39	33.87	74	40.13	peak

Test channel: Middle channel

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
4882	56.29	H	-18.62	37.67	74	36.33	peak
4882	55.97	V	-18.62	37.35	74	36.65	peak

Test channel: Highest channel

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
2483.5	55.47	H	-22.2	33.27	74	40.73	peak
2483.5	54.92	V	-22.2	32.72	74	41.28	peak
2500	56.27	H	-22.17	34.1	74	39.9	peak
2500	56.04	V	-22.17	33.87	74	40.13	peak
4960	55.96	H	-18.38	37.58	74	36.42	peak
4960	56.05	V	-18.38	37.67	74	36.33	peak

Remarks:

1. Level = Receiver Read level + Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

----- THE END OF TEST REPORT -----