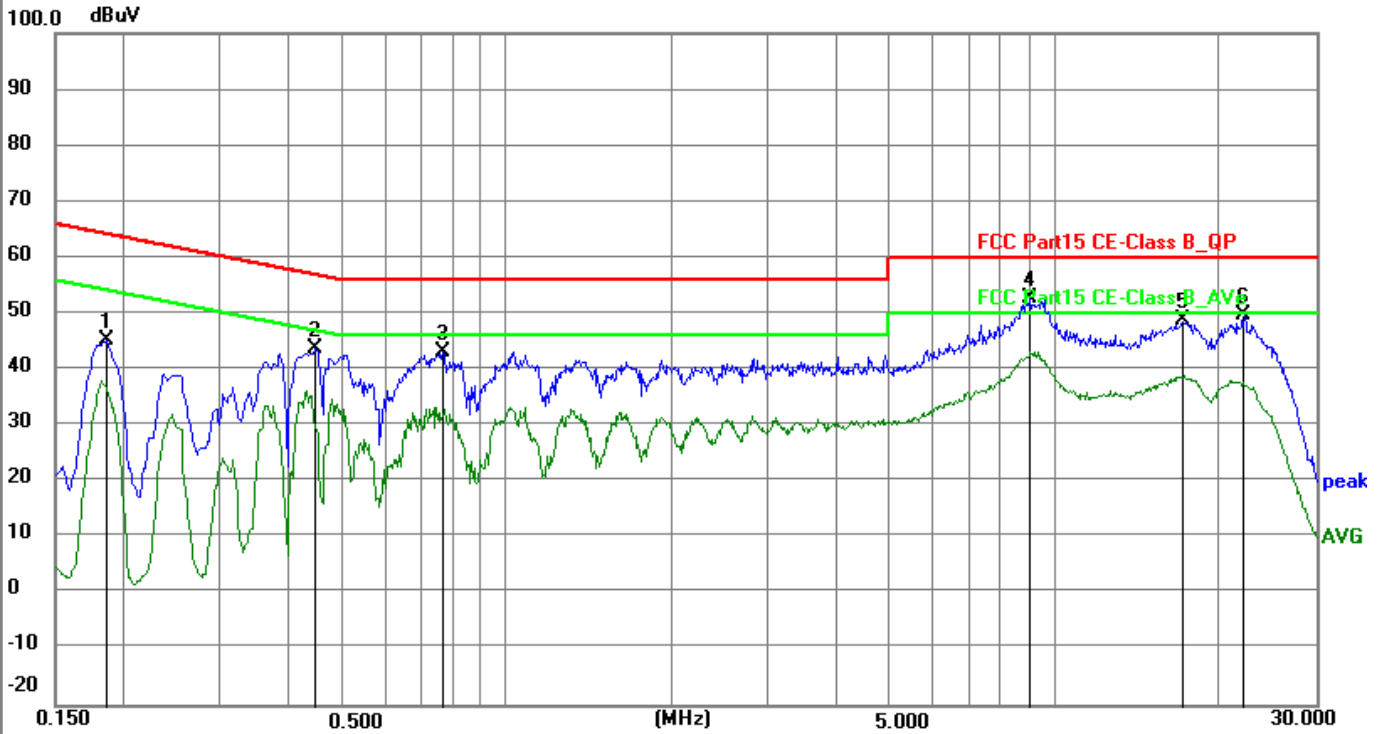
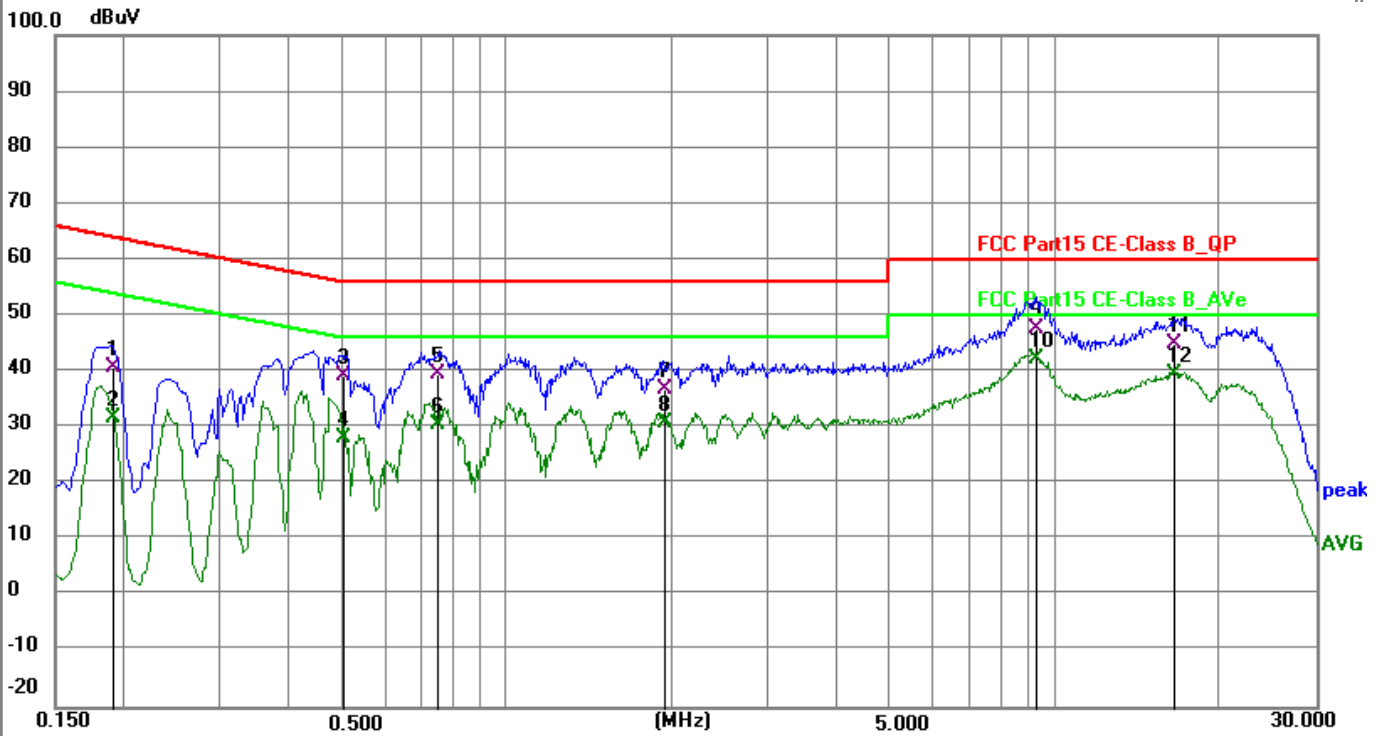


### APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1860	35.73	9.63	45.36	64.21	-18.85	QP	P	
2	0.1860	22.93	9.63	32.56	54.21	-21.65	AVG	P	
3	0.4470	34.05	9.63	43.68	56.93	-13.25	QP	P	
4	0.4470	22.93	9.63	32.56	46.93	-14.37	AVG	P	
5	0.7663	33.44	9.63	43.07	56.00	-12.93	QP	P	
6	0.7665	20.62	9.63	30.25	46.00	-15.75	AVG	P	
7 *	9.0420	42.94	9.72	52.66	60.00	-7.34	QP	P	
8	9.0420	30.63	9.72	40.35	50.00	-9.65	AVG	P	
9	17.1463	38.94	9.76	48.70	60.00	-11.30	QP	P	
10	17.1465	29.22	9.76	38.98	50.00	-11.02	AVG	P	
11	22.2314	39.94	9.77	49.71	60.00	-10.29	QP	P	
12	22.2314	25.87	9.77	35.64	50.00	-14.36	AVG	P	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1906	31.12	9.63	40.75	64.01	-23.26	QP	P	
2	0.1906	22.11	9.63	31.74	54.01	-22.27	AVG	P	
3	0.5048	29.62	9.62	39.24	56.00	-16.76	QP	P	
4	0.5048	18.62	9.62	28.24	46.00	-17.76	AVG	P	
5	0.7497	29.91	9.62	39.53	56.00	-16.47	QP	P	
6	0.7497	21.05	9.62	30.67	46.00	-15.33	AVG	P	
7	1.9492	27.16	9.65	36.81	56.00	-19.19	QP	P	
8	1.9492	21.35	9.65	31.00	46.00	-15.00	AVG	P	
9	9.2791	37.97	9.73	47.70	60.00	-12.30	QP	P	
10 *	9.2791	32.42	9.73	42.15	50.00	-7.85	AVG	P	
11	16.5730	35.10	9.77	44.87	60.00	-15.13	QP	P	
12	16.5730	29.64	9.77	39.41	50.00	-10.59	AVG	P	



## APPENDIX B - RADIATED EMISSION -9 KHZ TO 30 MHZ

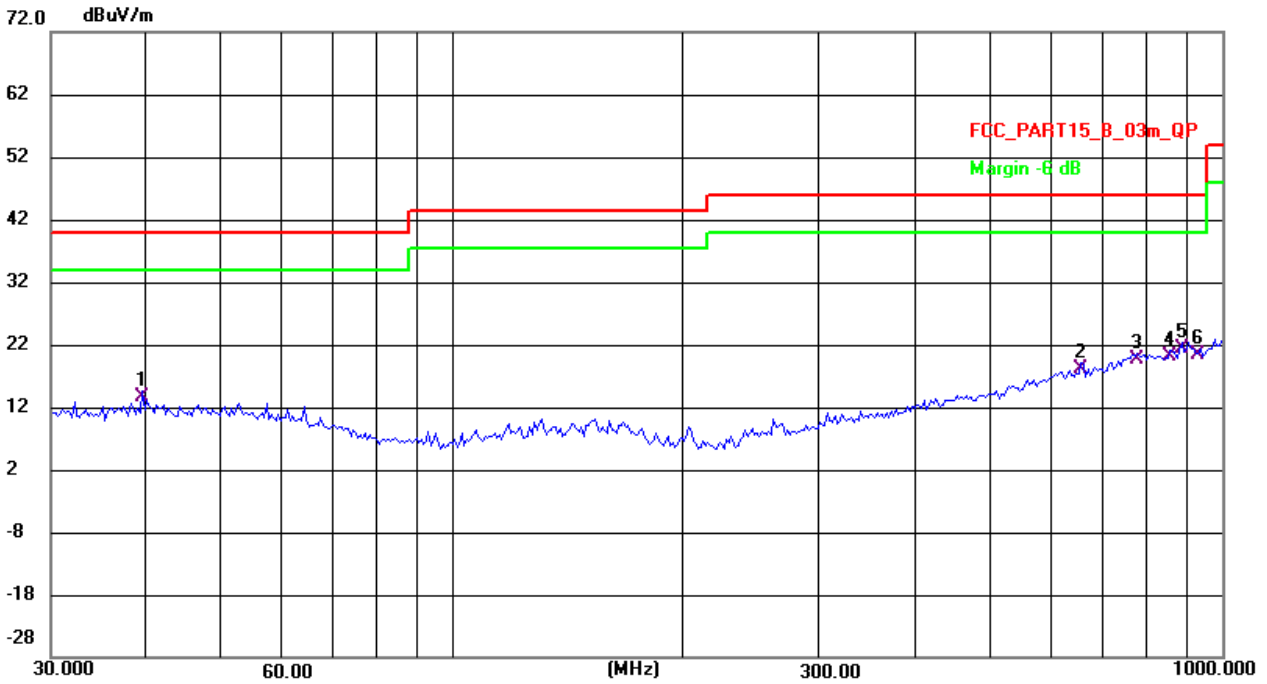
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

## APPENDIX C - RADIATED EMISSION-30 MHZ TO 1000 MHZ

Only show the worst mode:

Test Mode	TX Mode_1Mbps Channel 00	Polarization	Vertical
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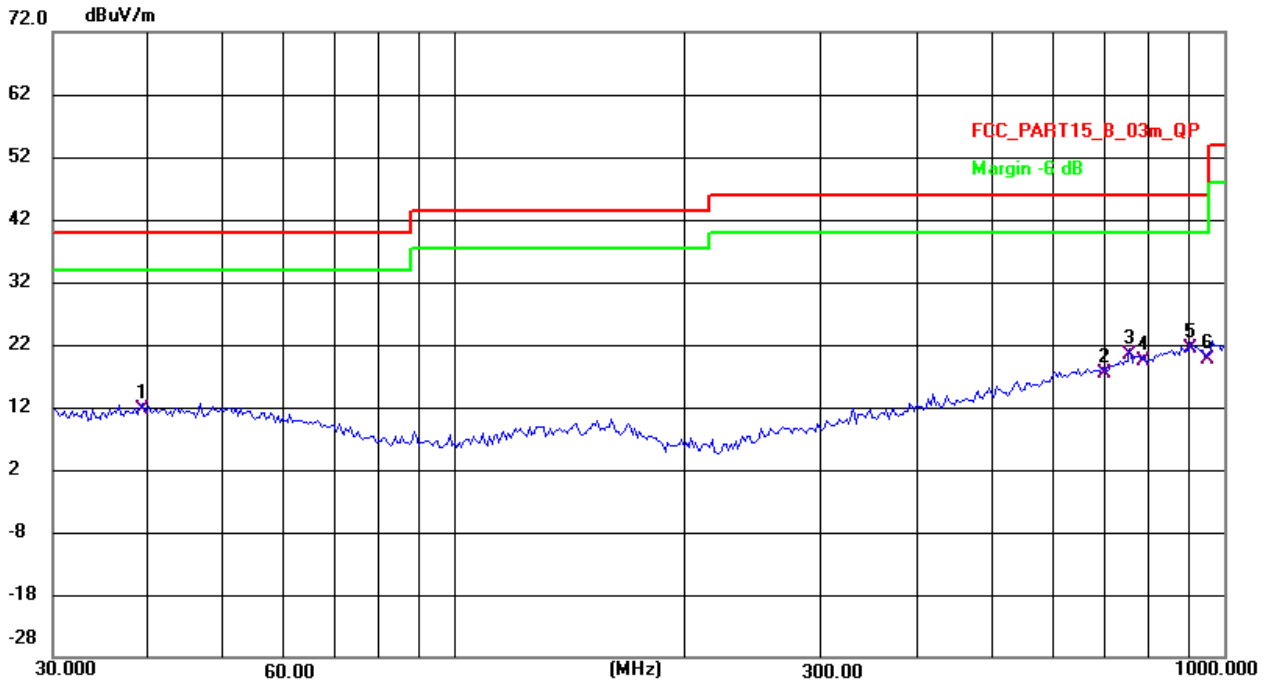


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.4588	33.01	-19.26	13.75	40.00	-26.25	QP	100	147	P	
2	655.9766	31.06	-13.04	18.02	46.00	-27.98	QP	100	226	P	
3	776.4849	30.09	-10.54	19.55	46.00	-26.45	QP	200	254	P	
4	856.7597	29.82	-9.57	20.25	46.00	-25.75	QP	100	284	P	
5 *	887.3978	30.45	-9.09	21.36	46.00	-24.64	QP	200	241	P	
6	938.7139	29.34	-8.97	20.37	46.00	-25.63	QP	200	268	P	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_1Mbps Channel 00	Polarization	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.1825	30.89	-19.29	11.60	40.00	-28.40	QP	200	10	P	
2	698.8035	29.95	-12.61	17.34	46.00	-28.66	QP	100	114	P	
3	754.9628	31.30	-10.80	20.50	46.00	-25.50	QP	100	207	P	
4	787.4749	29.97	-10.49	19.48	46.00	-26.52	QP	200	54	P	
5 *	906.3041	30.18	-8.79	21.39	46.00	-24.61	QP	100	199	P	
6	952.0001	28.60	-8.86	19.74	46.00	-26.26	QP	200	10	P	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Result of RADIATED EMISSION-1000MHz TO 25GHz

Test Mode : GFSK TX Low

No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4804	V	90.89	-27.15	63.74	74.00	-10.26	Peak
2	4804	V	70.58	-27.15	43.43	54.00	-10.57	Avg
3	7206	--	--	--	--	--	--	--
4	9608	--	--	--	--	--	--	--
5	4804	H	91.58	-27.15	64.23	74.00	-9.77	Peak
6	4804	H	69.01	-27.15	41.86	54.00	-12.14	Avg
7	7206	--	--	--	--	--	--	--
8	9608	--	--	--	--	--	--	--

Test Mode : GFSK TX Mid

1	4880	V	92.38	-27.83	64.55	74.00	-9.45	Peak
2	4880	V	74.05	-27.83	46.22	54.00	-7.78	Avg
3	7320	--	--	--	--	--	--	--
4	9760	--	--	--	--	--	--	--
5	4880	H	90.63	-27.83	62.80	74.00	-11.20	Peak
6	4880	H	67.28	-27.83	39.45	54.00	-14.55	Avg
7	7320	--	--	--	--	--	--	--
8	9760	--	--	--	--	--	--	--

Test Mode : GFSK TX High

1	4960	V	96.36	-28.45	67.91	74.00	-6.09	Peak
2	4960	V	75.14	-28.45	46.69	54.00	-7.31	Avg
3	7440	--	--	--	--	--	--	--
4	9920	--	--	--	--	--	--	--
5	4960	H	90.59	-28.45	62.14	74.00	-11.86	Peak
6	4960	H	69.01	-28.45	40.56	54.00	-13.44	Avg
7	7440	--	--	--	--	--	--	--
8	9920	--	--	--	--	--	--	--

Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.  
 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.  
 Result=Reading + Correct Factor. Margin= Result-Limit.

## Test Result of Radiated Spurious at Band edges

Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				1Mbps: GFSK TX 2402MHz				
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	72.25	-21.47	50.78	74.00	-23.22	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	76.31	-26.12	50.19	74.00	-23.81	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	68.64	-21.47	47.17	74.00	-26.83	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	75.02	-26.12	48.90	74.00	-25.10	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg

Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				1Mbps: GFSK TX 2480MHz				
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2483.5	H	75.28	-25.29	49.99	74.00	-24.01	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	74.06	-25.29	48.77	74.00	-25.23	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg

Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.

2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.

Result=Reading + Correct Factor.

Margin= Result-Limit.

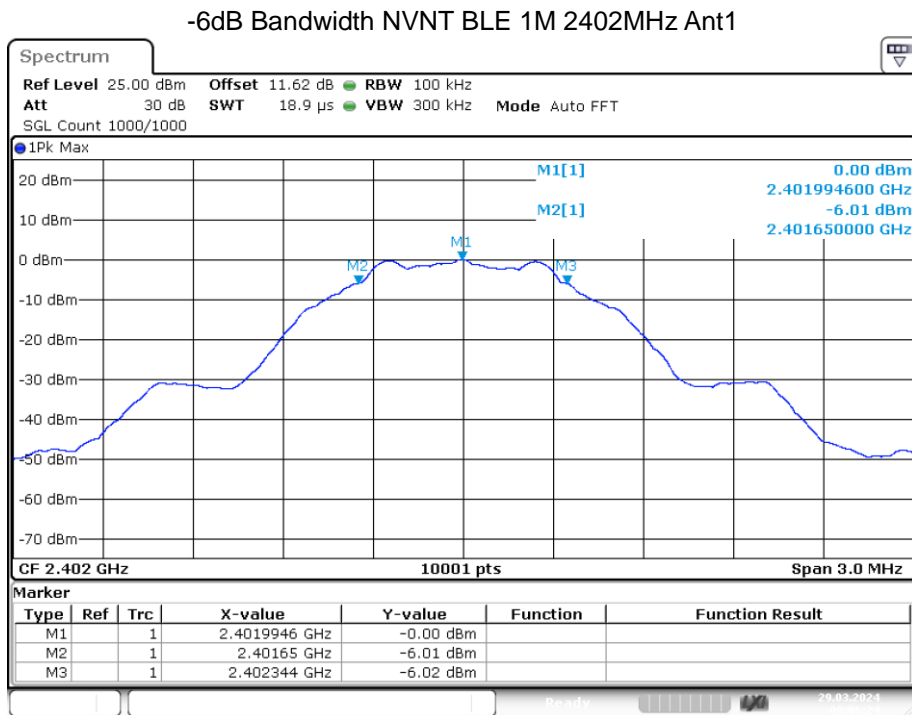
3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

## APPENDIX E - BANDWIDTH

Test Mode	TX Mode _1Mbps
-----------	----------------

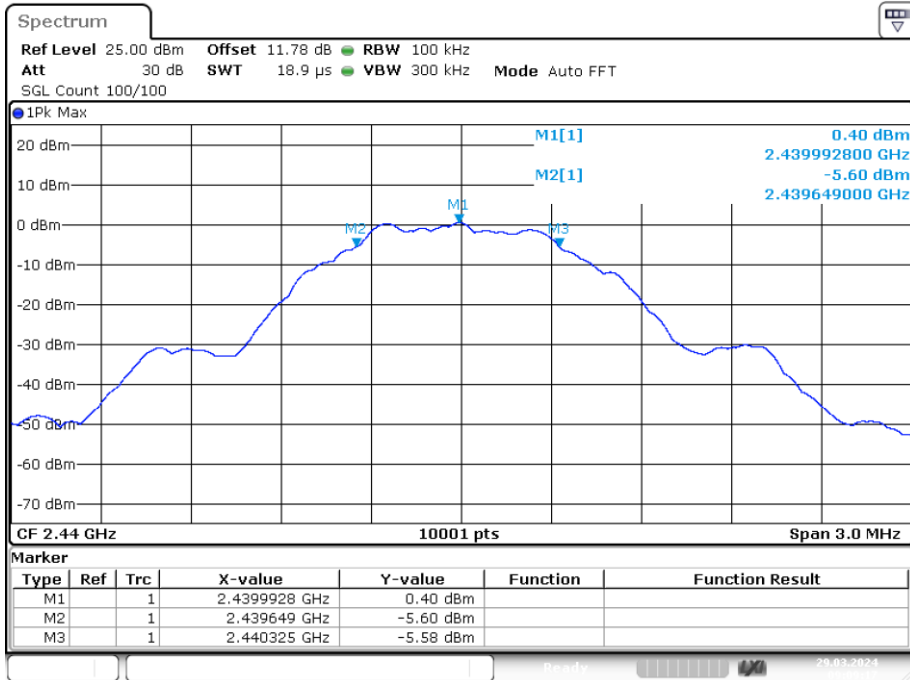
### -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.694	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.677	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.695	0.5	Pass



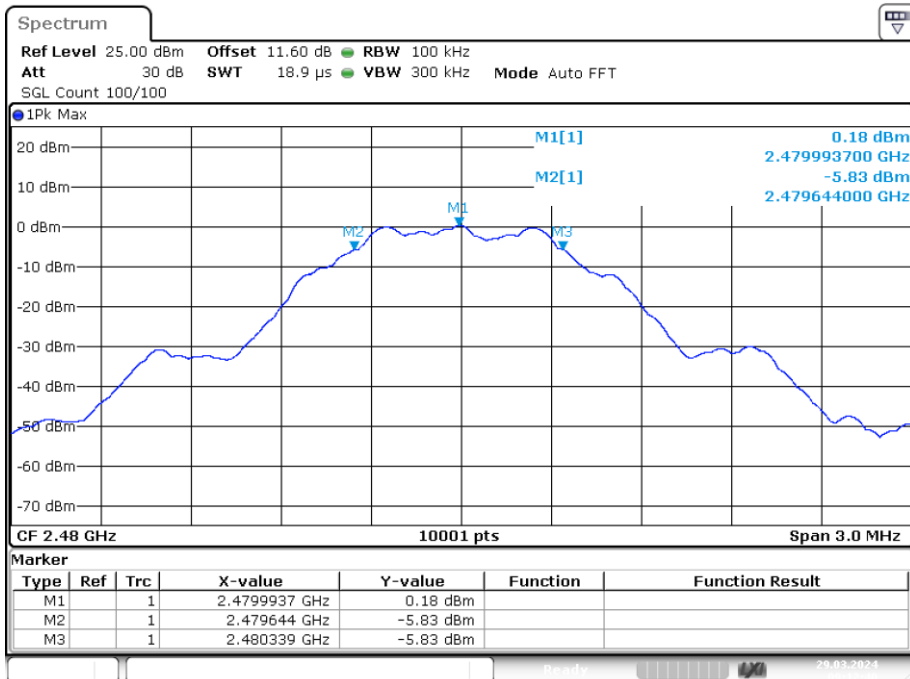
Date: 29.MAR.2024 09:06:24

### -6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



Date: 29.MAR.2024 09:09:16

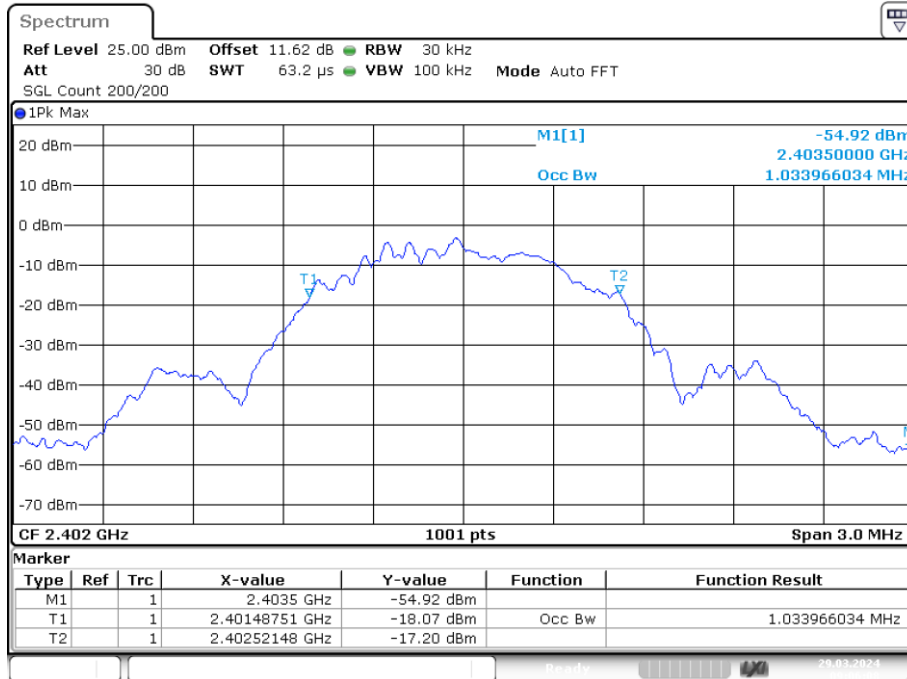
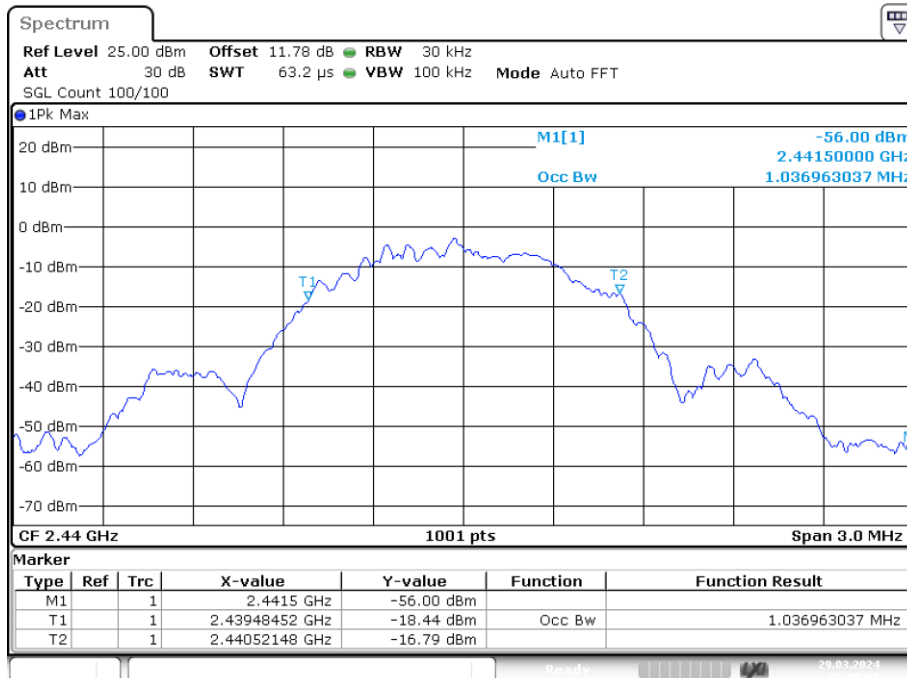
### -6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



Date: 29.MAR.2024 09:12:40

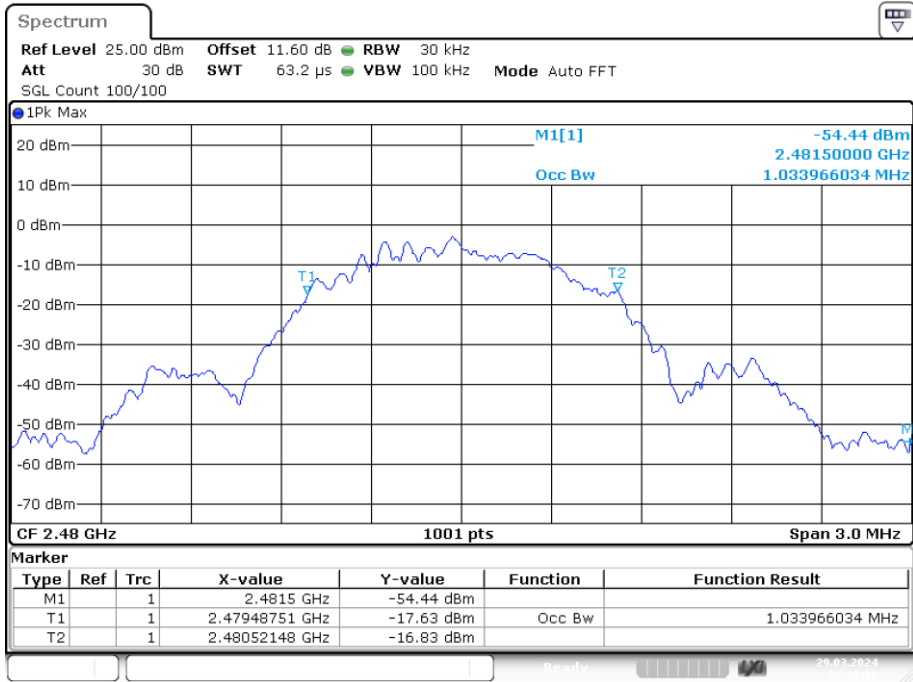
**99% Occupied Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.034
NVNT	BLE 1M	2440	Ant1	1.037
NVNT	BLE 1M	2480	Ant1	1.034

**OBW NVNT BLE 1M 2402MHz Ant1**

**OBW NVNT BLE 1M 2440MHz Ant1**




OBW NVNT BLE 1M 2480MHz Ant1



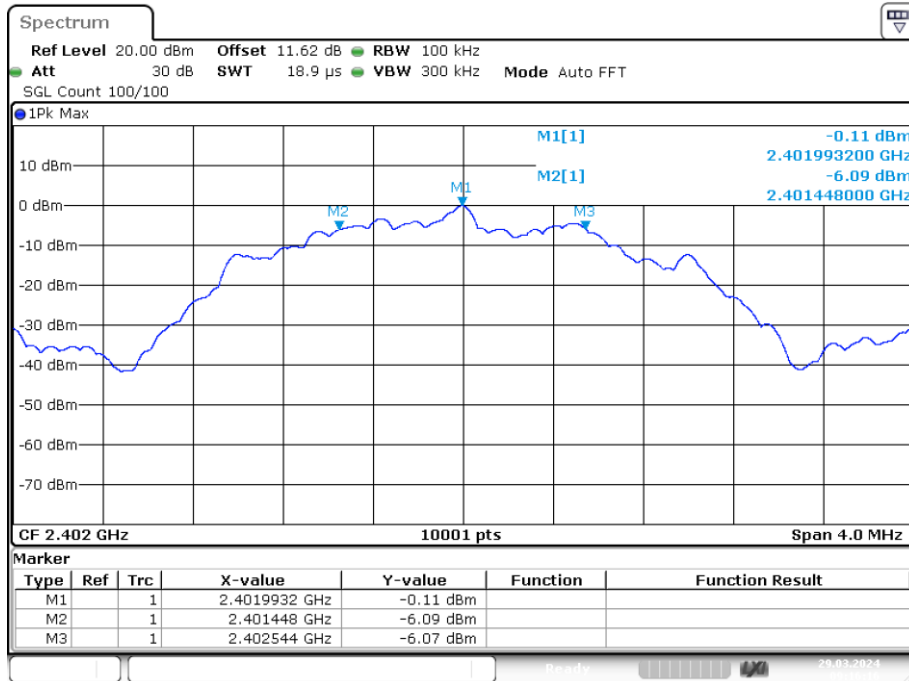
Date: 29.MAR.2024 09:12:30

Test Mode	TX Mode _2Mbps
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### -6dB Bandwidth

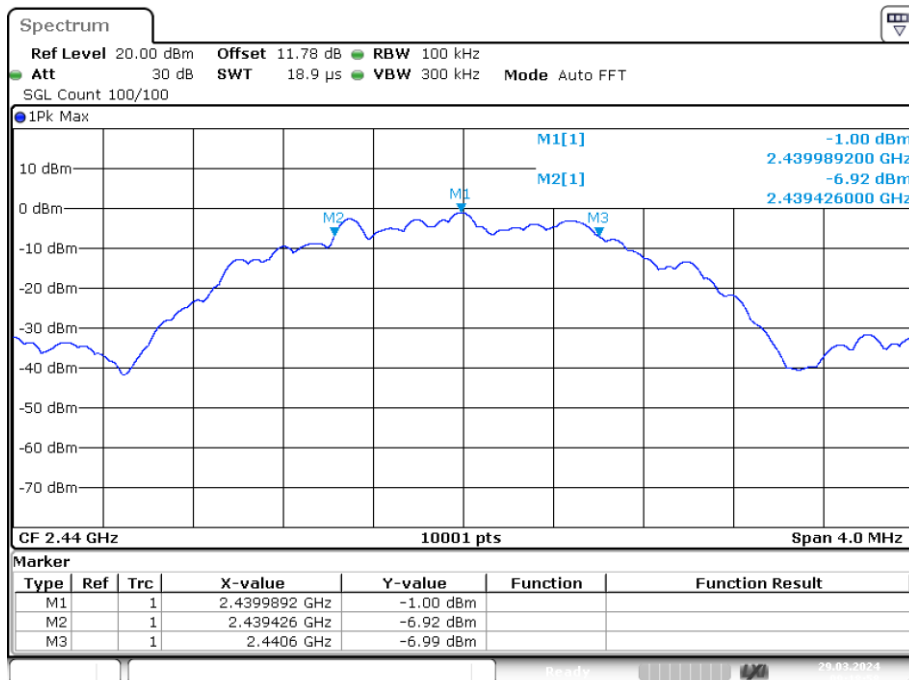
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.097	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.174	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.258	0.5	Pass

-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



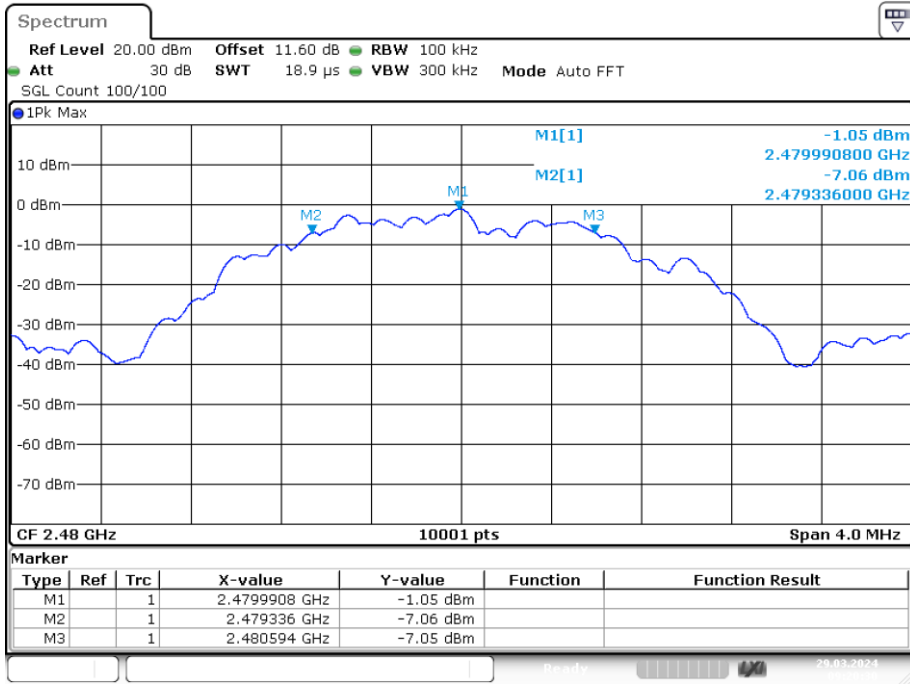
Date: 29.MAR.2024 09:16:16

-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



Date: 29.MAR.2024 09:18:58

## -6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

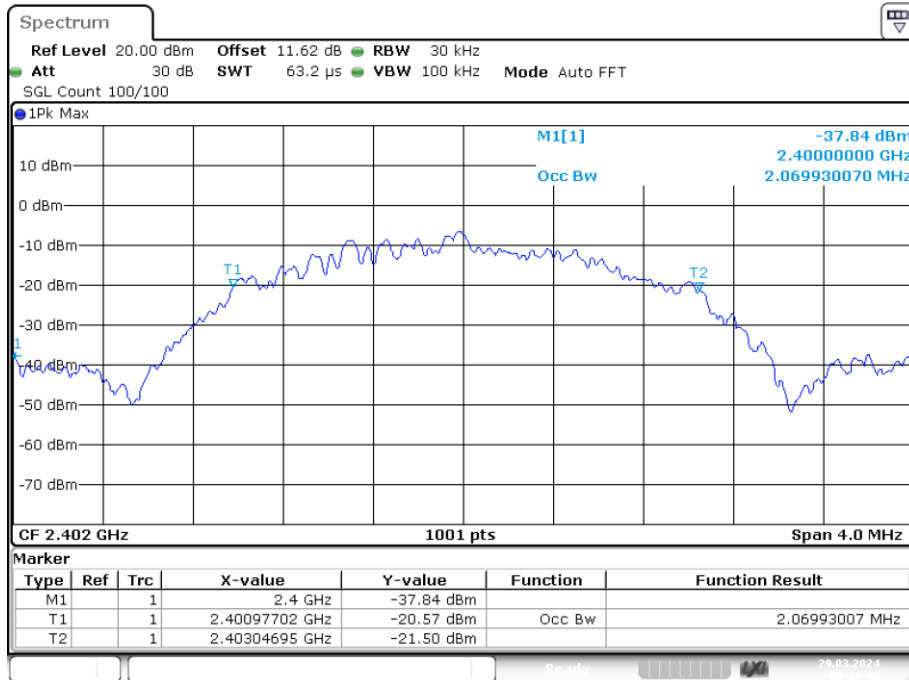


Date: 29.MAR.2024 09:20:29

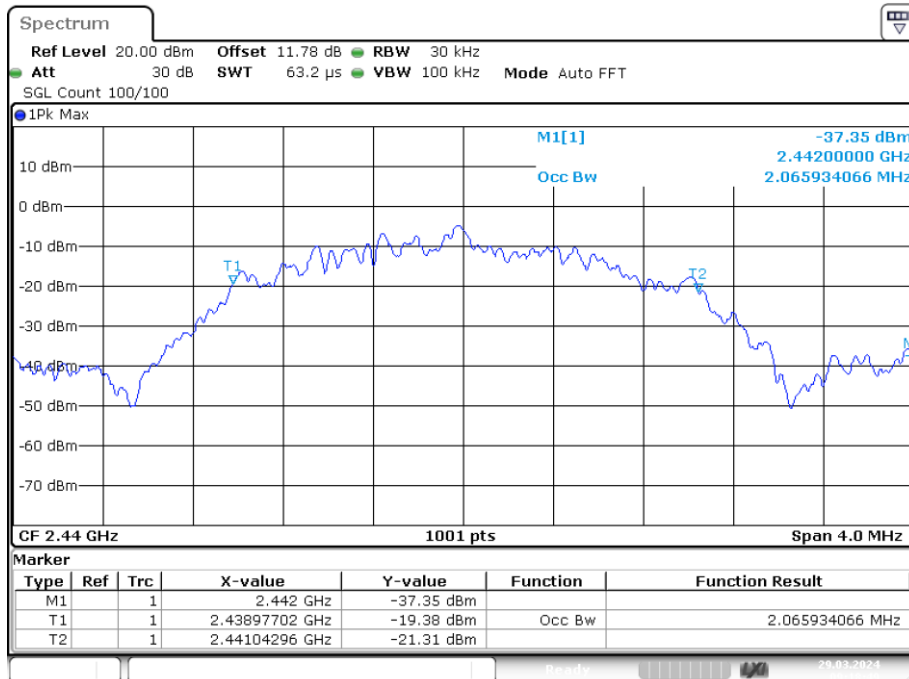
**99% Occupied Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.07
NVNT	BLE 2M	2440	Ant1	2.066
NVNT	BLE 2M	2480	Ant1	2.062

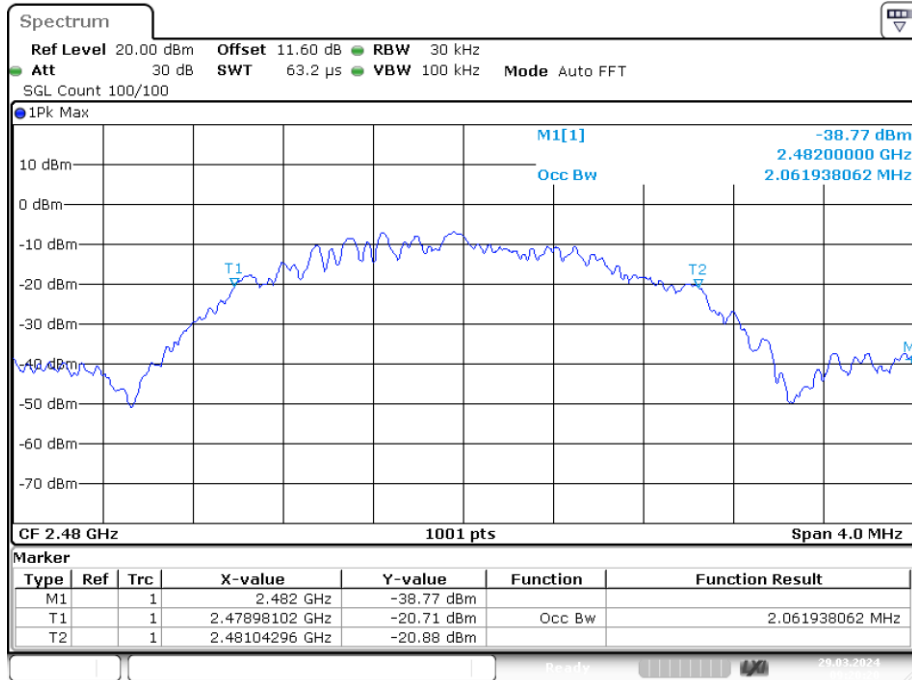
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



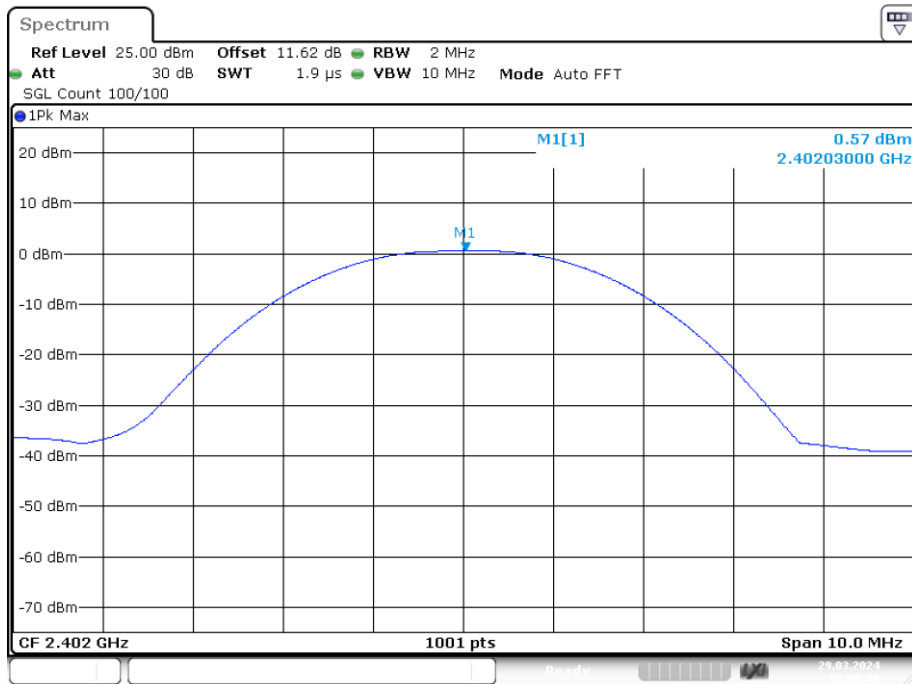
## OBW NVNT BLE 2M 2480MHz Ant1



**APPENDIX F - MAXIMUM OUTPUT POWER**

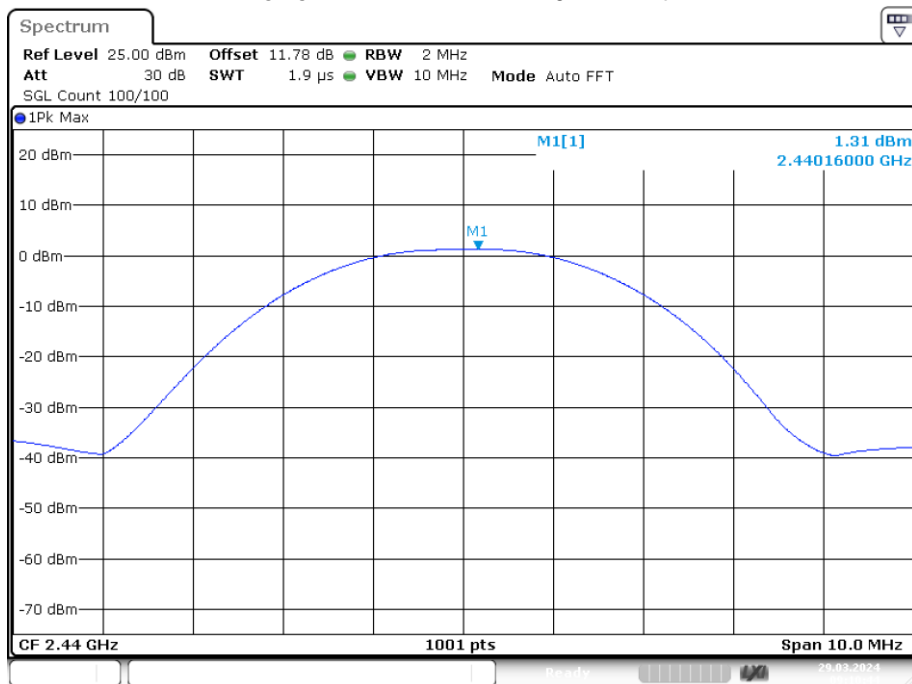
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.57	0	0.57	30	Pass
NVNT	BLE 1M	2440	Ant1	1.305	0	1.305	30	Pass
NVNT	BLE 1M	2480	Ant1	0.725	0	0.725	30	Pass

Power NVNT BLE 1M 2402MHz Ant1



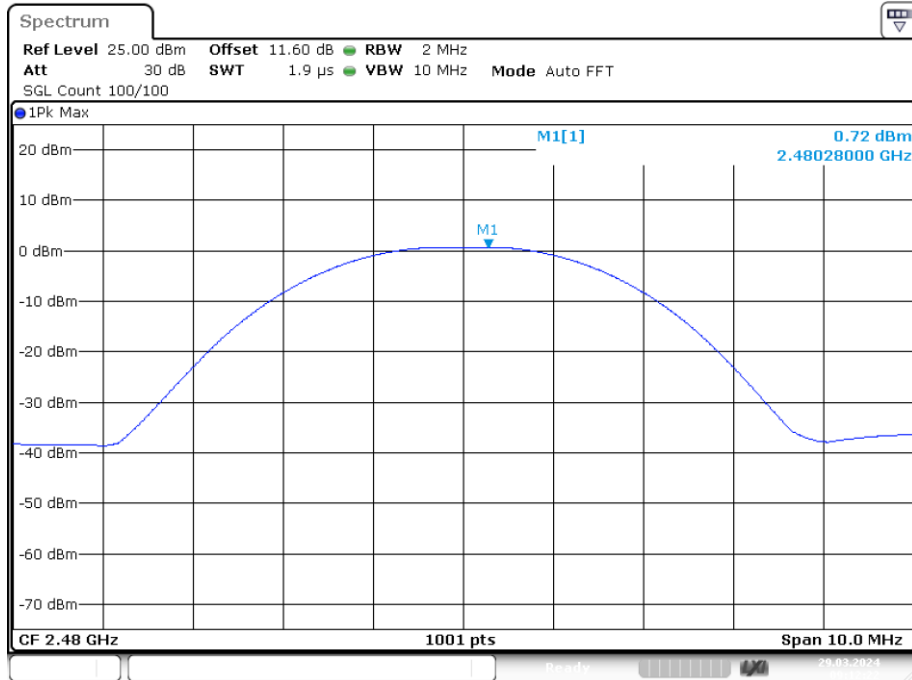
Date: 29.MAR.2024 09:06:00

Power NVNT BLE 1M 2440MHz Ant1



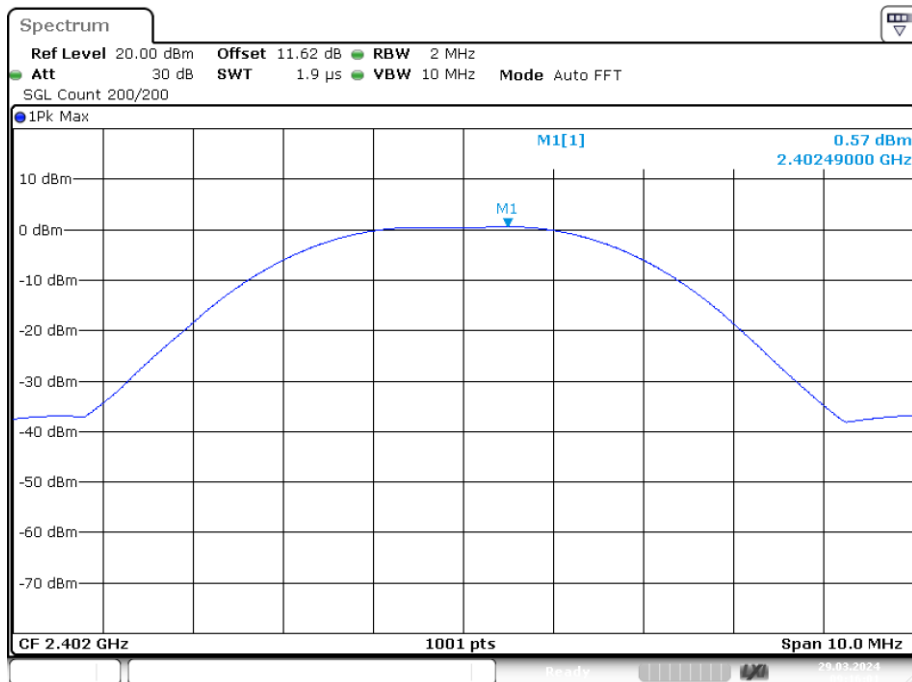
Date: 29.MAR.2024 09:10:44

## Power NVNT BLE 1M 2480MHz Ant1

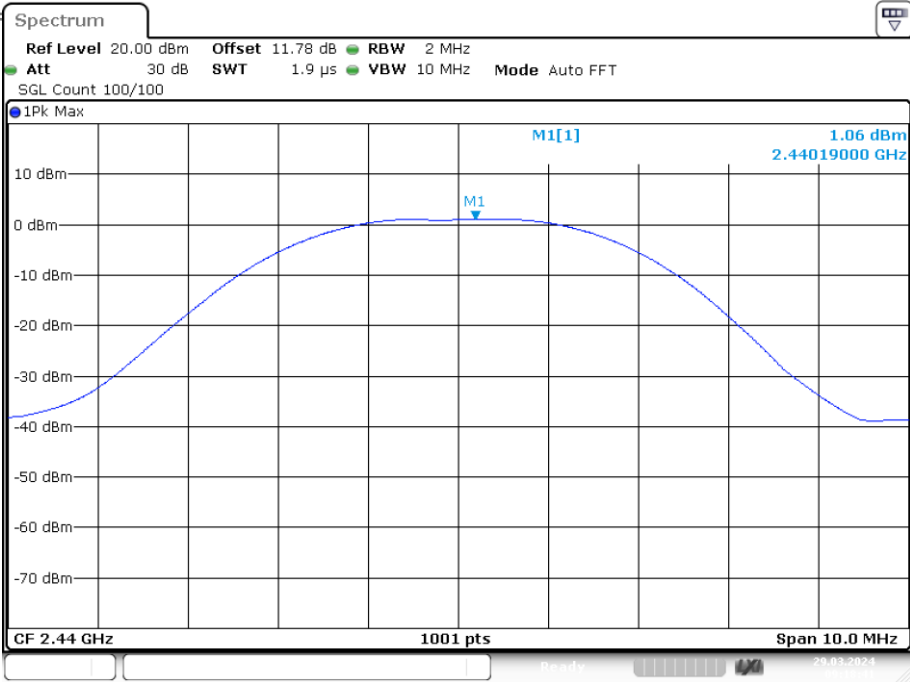


Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	0.568	0	0.568	30	Pass
NVNT	BLE 2M	2440	Ant1	1.065	0	1.065	30	Pass
NVNT	BLE 2M	2480	Ant1	0.829	0	0.829	30	Pass

## Power NVNT BLE 2M 2402MHz Ant1

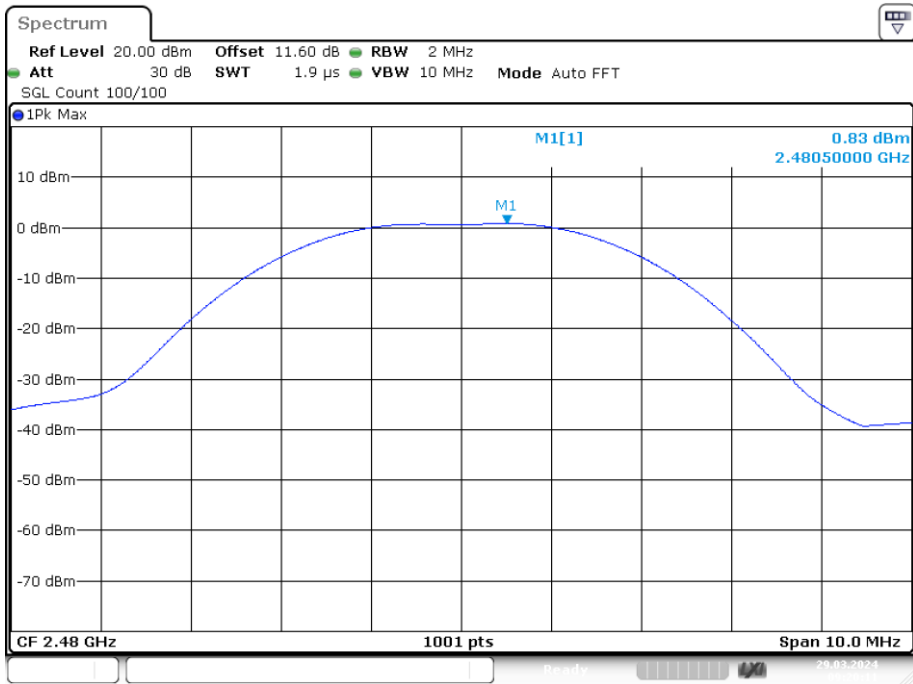


## Power NVNT BLE 2M 2440MHz Ant1



Date: 29.MAR.2024 09:18:41

### Power NVNT BLE 2M 2480MHz Ant1



Date: 29.MAR.2024 09:20:11

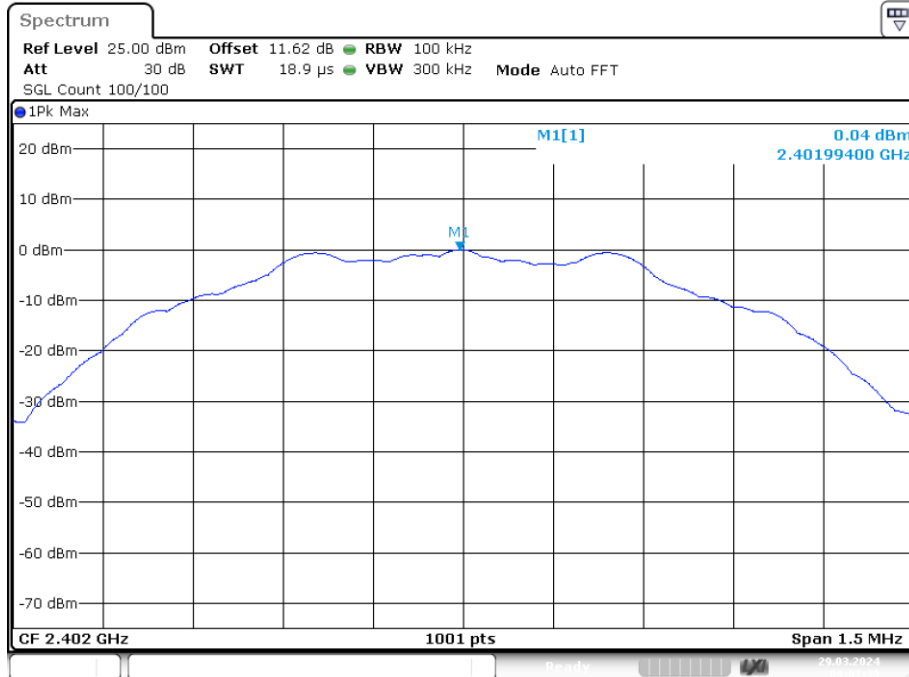


### APPENDIX G - CONDUCTED SPURIOUS EMISSION

#### Spurious Emission

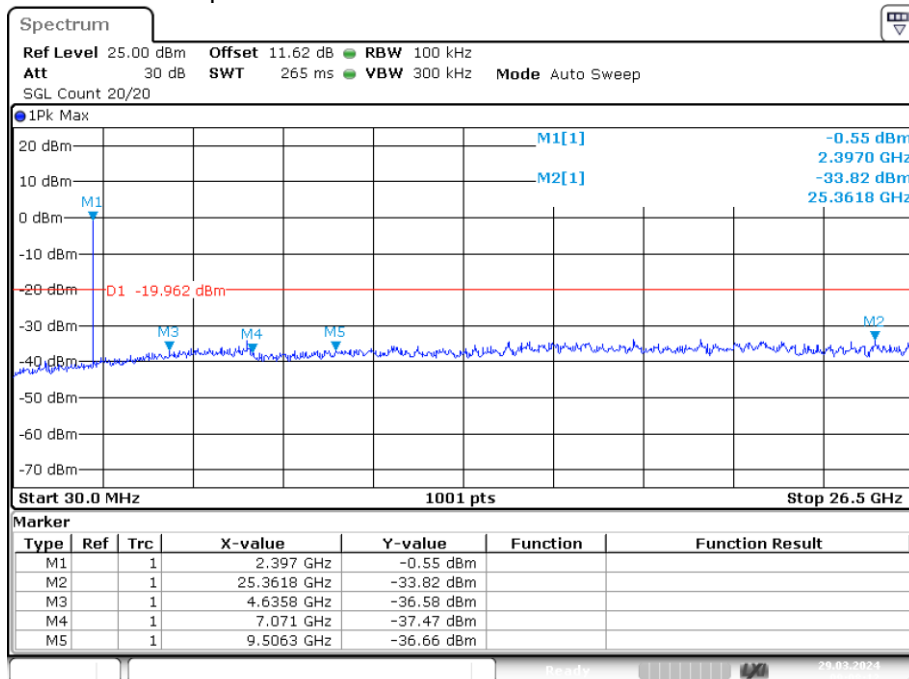
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-33.86	-20	Pass
NVNT	BLE 1M	2440	Ant1	-33.33	-20	Pass
NVNT	BLE 1M	2480	Ant1	-33.58	-20	Pass

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



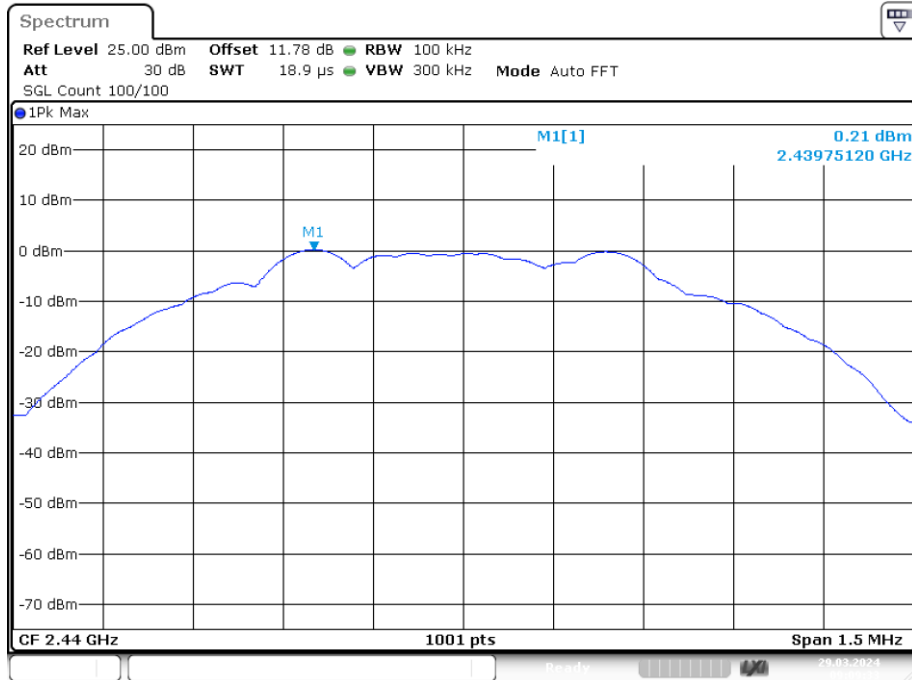
Date: 29.MAR.2024 09:07:39

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

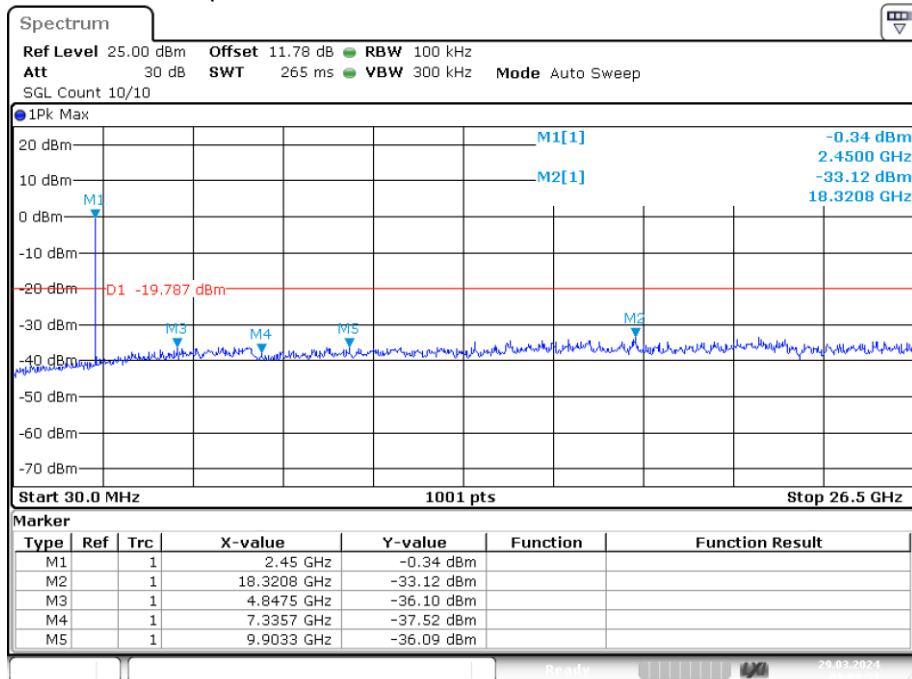


Date: 29.MAR.2024 09:08:12

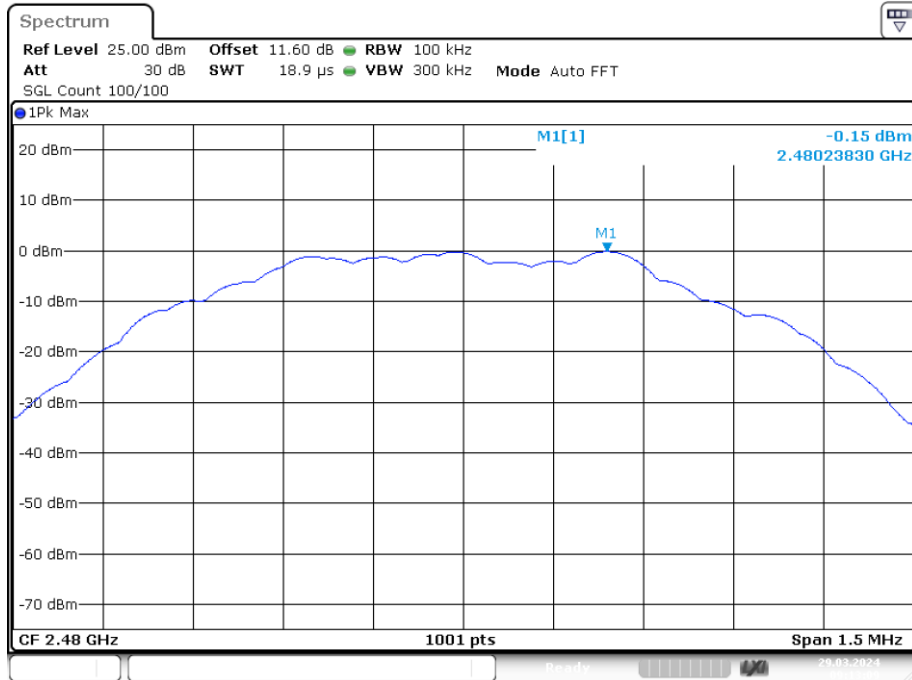
## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



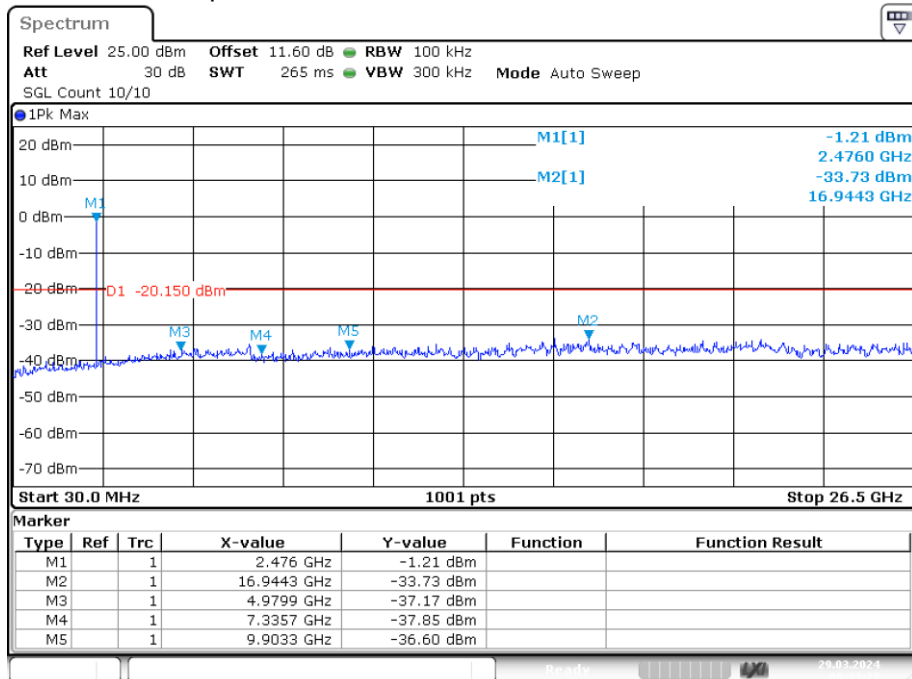
## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref

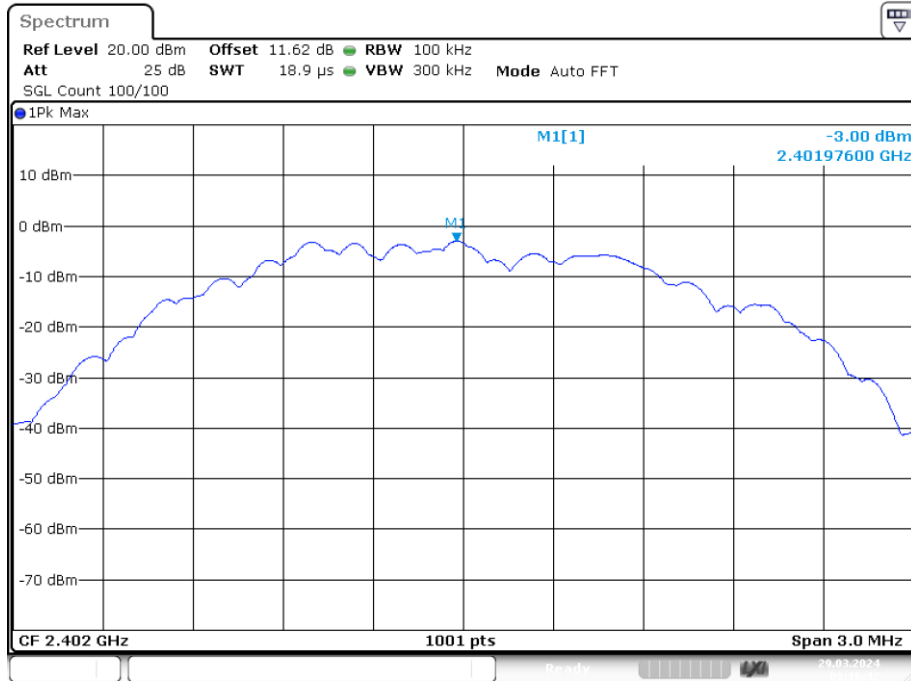


## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



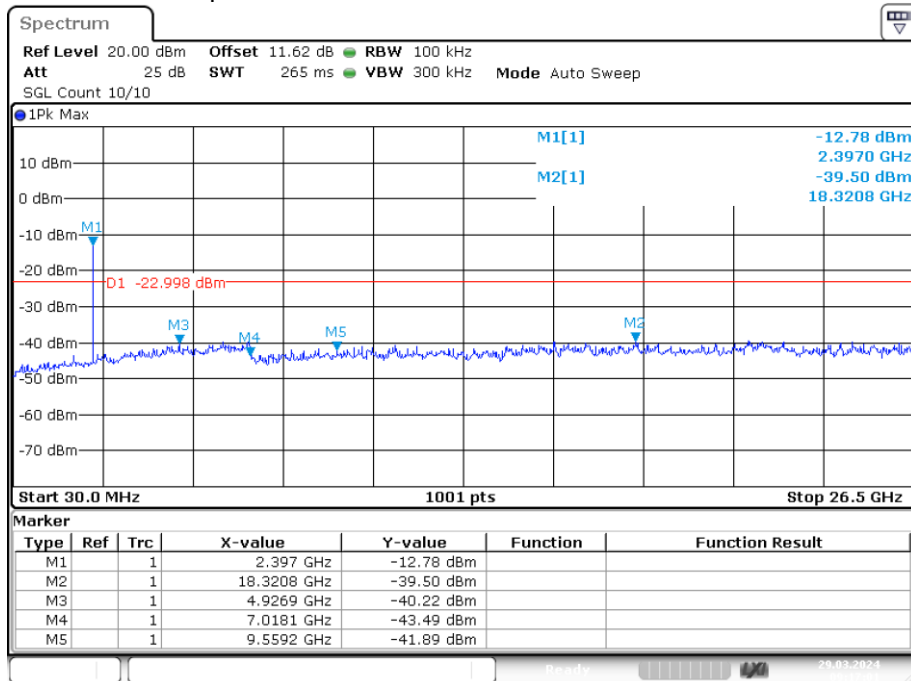
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-36.5	-20	Pass
NVNT	BLE 2M	2440	Ant1	-39.18	-20	Pass
NVNT	BLE 2M	2480	Ant1	-37.4	-20	Pass

## Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



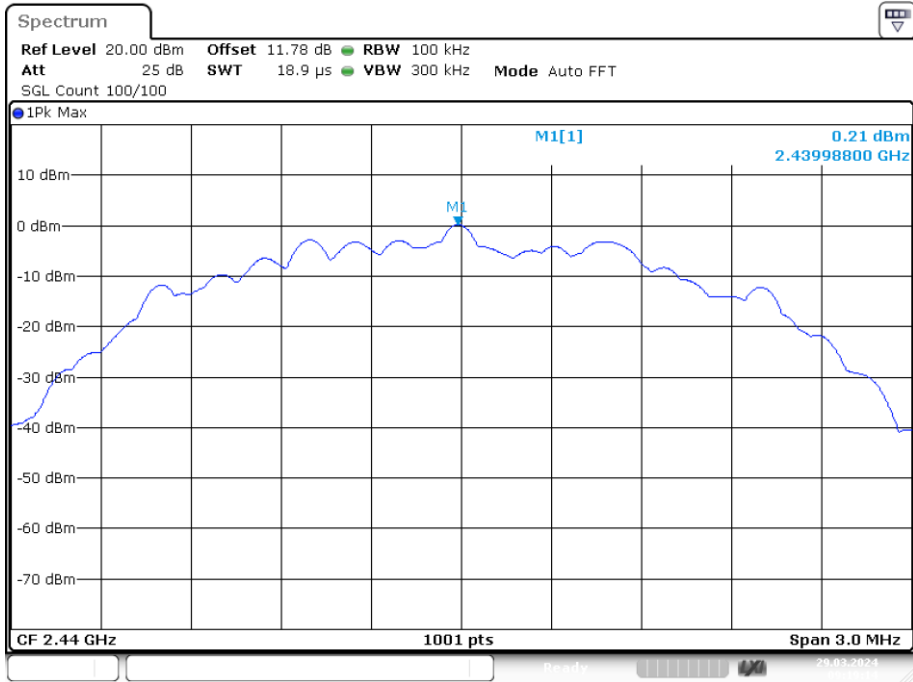
Date: 29.MAR.2024 09:16:42

## Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



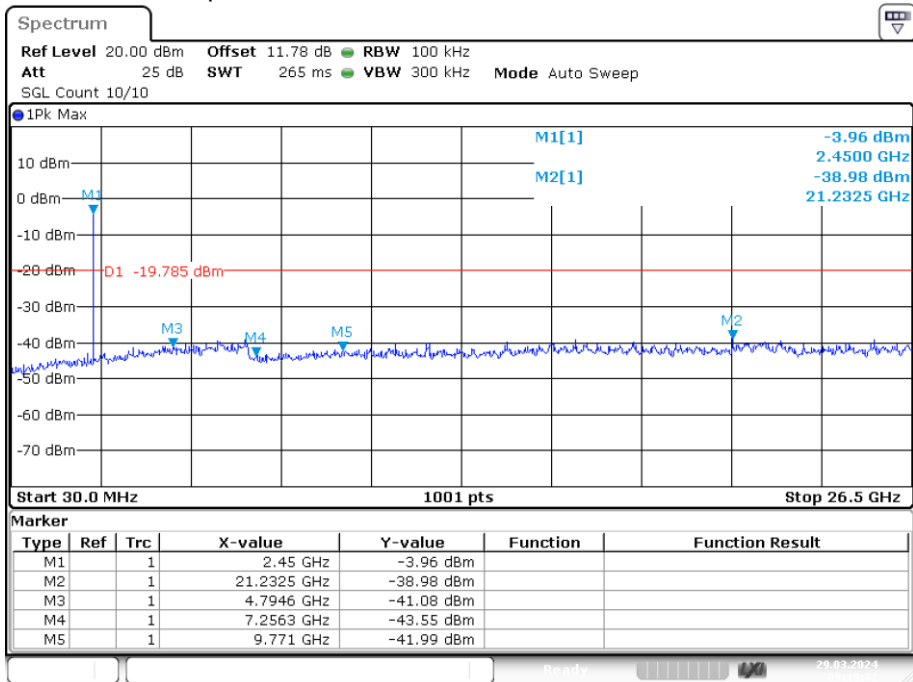
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### Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



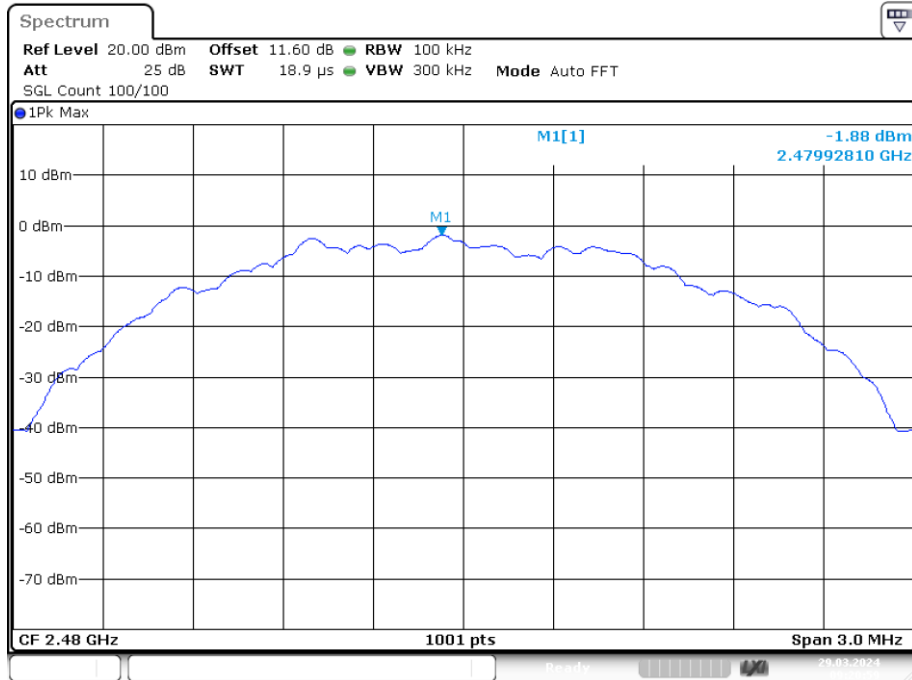
Date: 29.MAR.2024 09:19:13

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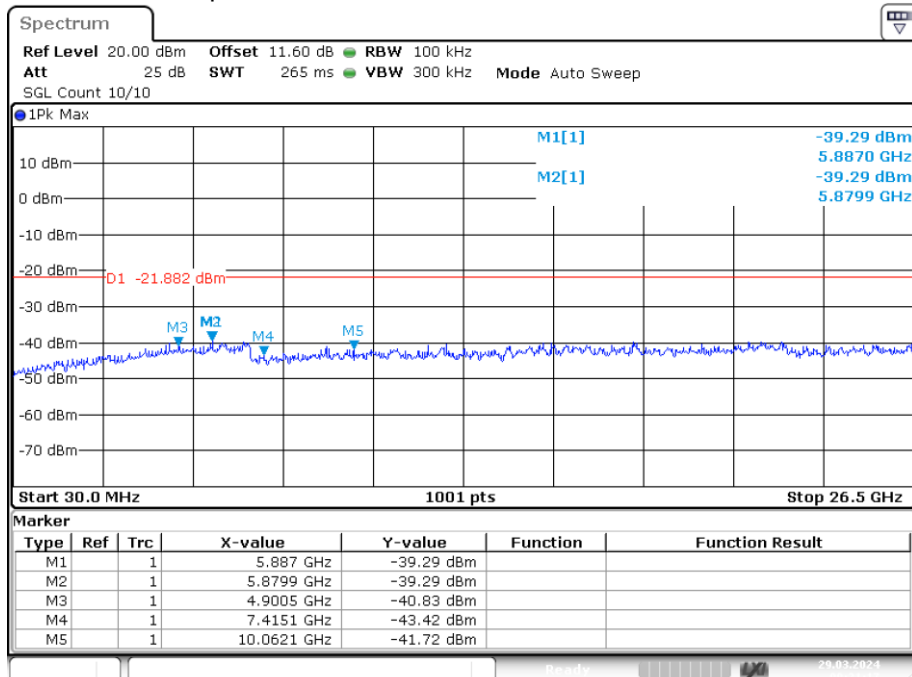
Date: 29.MAR.2024 09:19:31

### Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Date: 29.MAR.2024 09:20:59

### Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



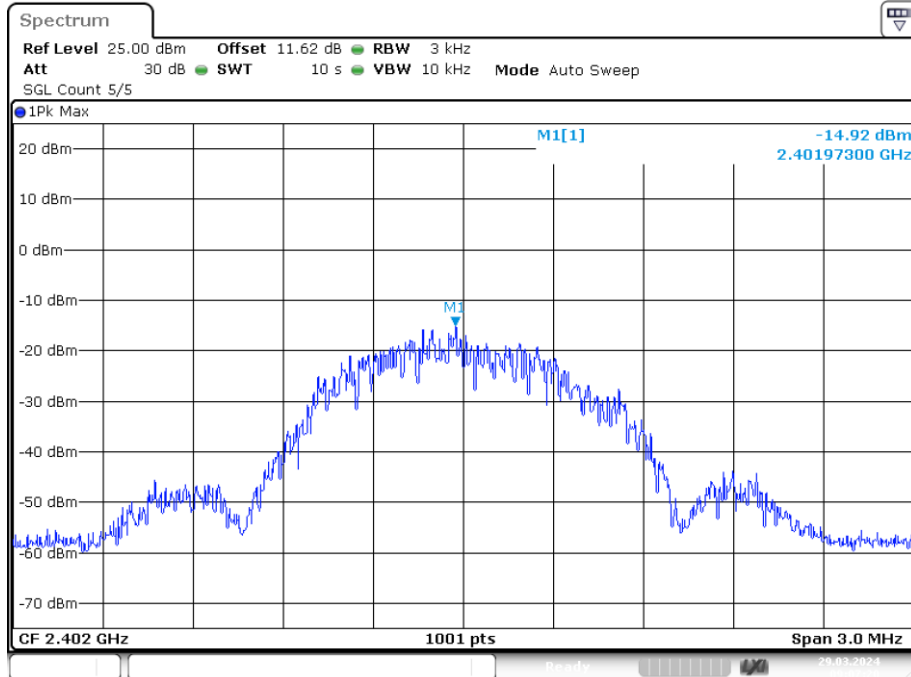
Date: 29.MAR.2024 09:21:17

## APPENDIX H- POWER SPECTRAL DENSITY

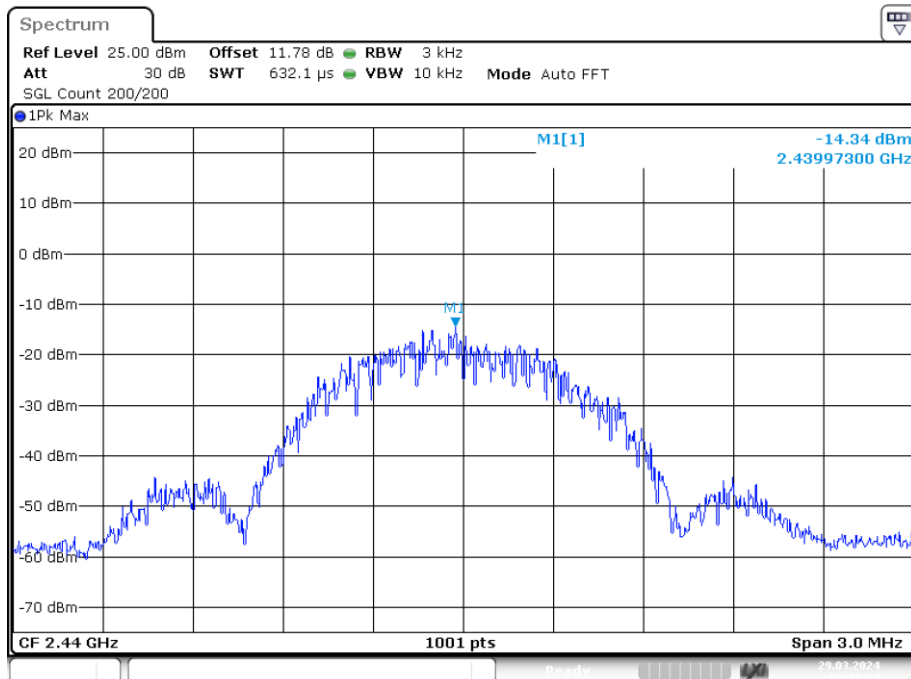
### Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.921	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.338	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.923	8	Pass

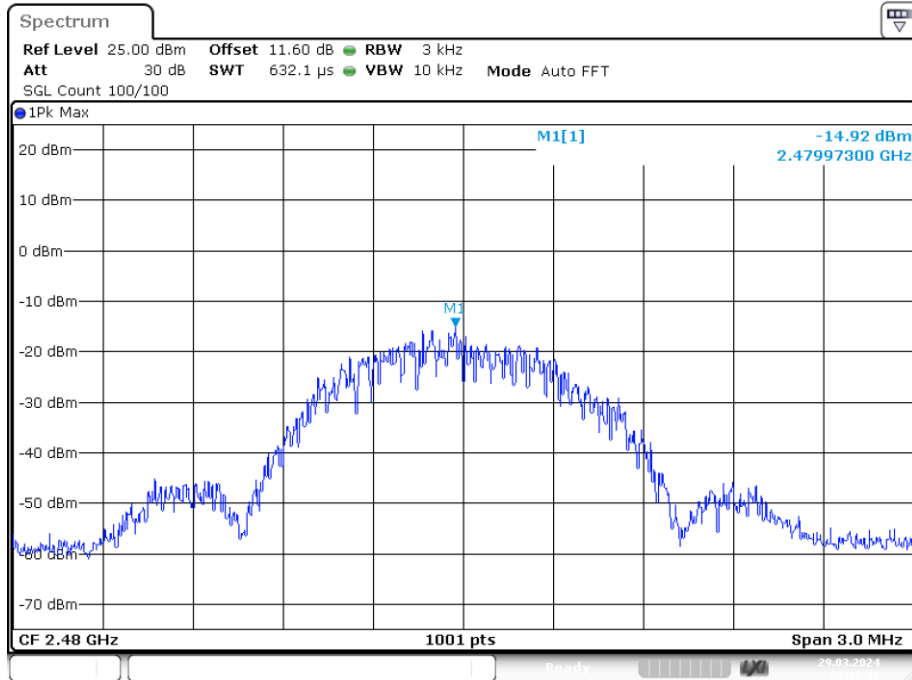
PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

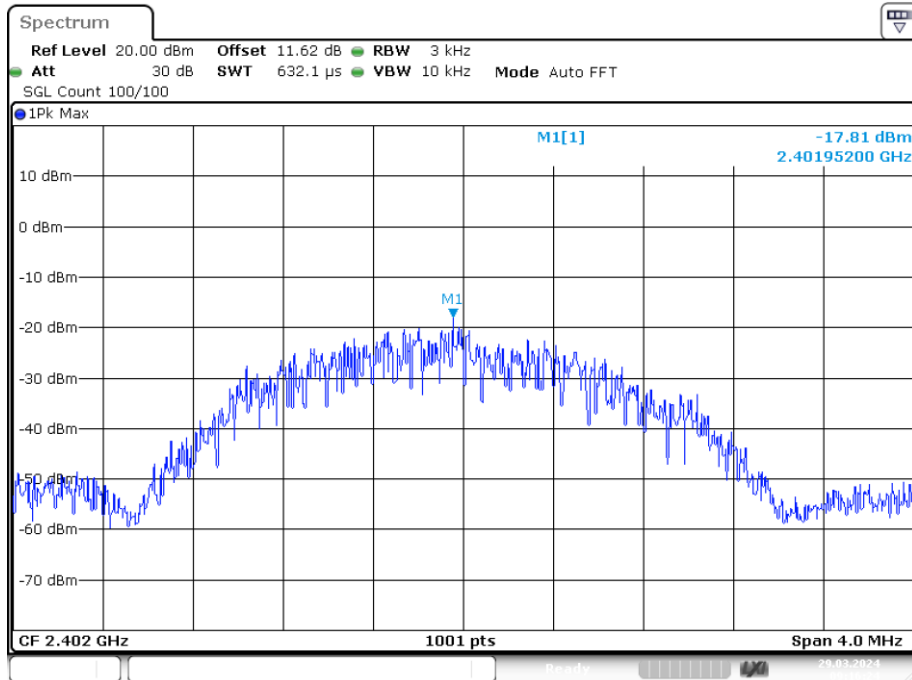


## PSD NVNT BLE 1M 2480MHz Ant1



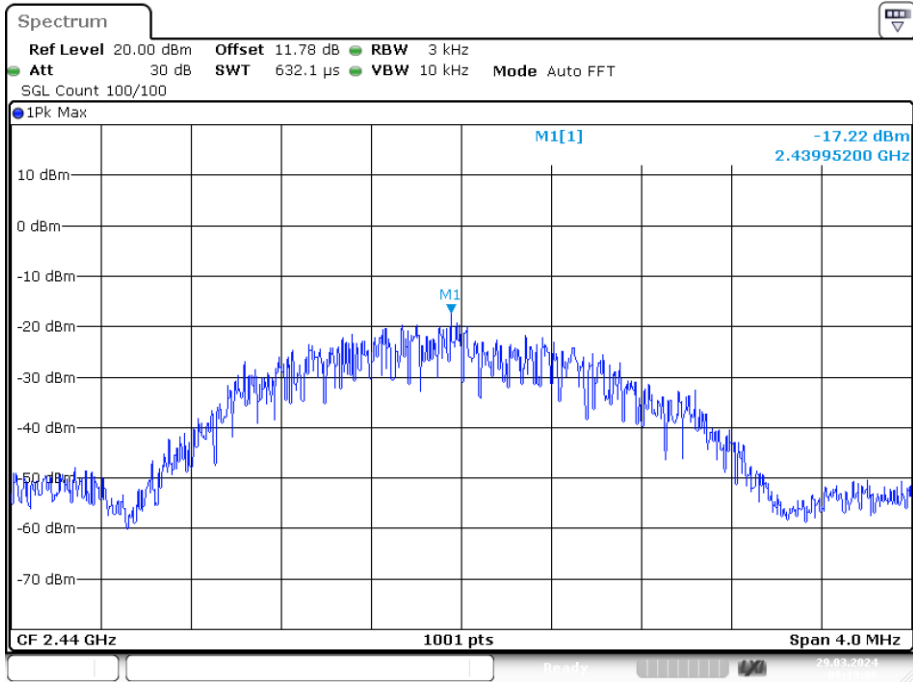
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-17.814	8	Pass
NVNT	BLE 2M	2440	Ant1	-17.22	8	Pass
NVNT	BLE 2M	2480	Ant1	-17.529	8	Pass

## PSD NVNT BLE 2M 2402MHz Ant1

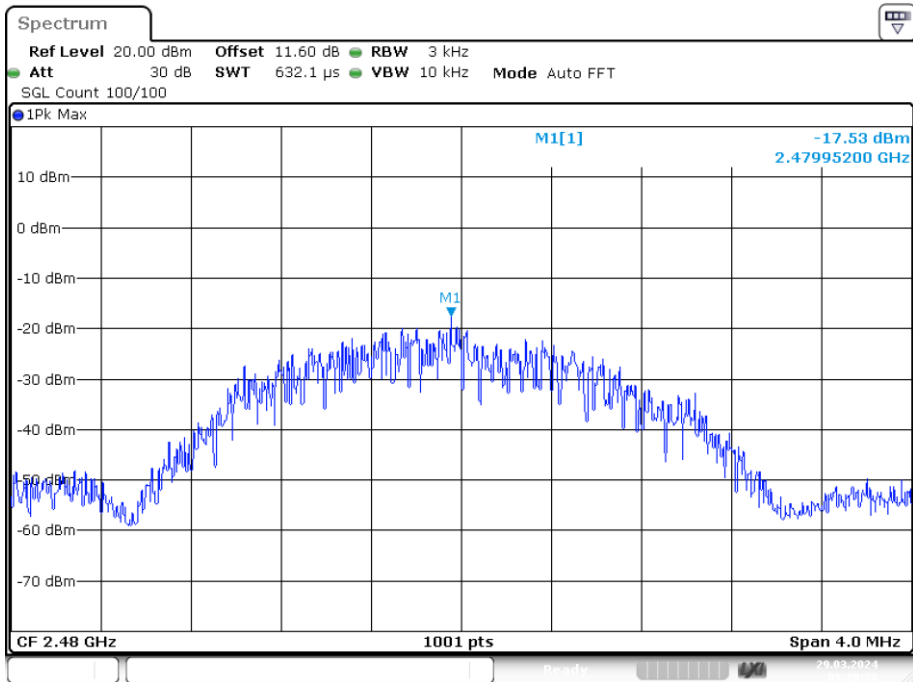




### PSD NVNT BLE 2M 2440MHz Ant1



### PSD NVNT BLE 2M 2480MHz Ant1



**End of Test Report**