FCC TEST REPORT

FCC ID: 2AVBN-T20WF

On Behalf of

SHENZHEN REDLEAF TECHNOLOGY CO., LTD.

Trail Camera

Model No.: T20WF, T21WF, T22WF, TC21, TC25, T20, T21, T22, 20160, 4K WiFi Slim, WK-10

Prepared for	:	SHENZHEN REDLEAF TECHNOLOGY CO., LTD.
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Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
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Date of Receipt	:	May 30, 2023
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TEST REPORT DECLARATION

Applicant	:	SHENZHEN REDLEAF TECHNOLOGY CO., LTD.
Address	:	3F, Building E, Huichao Industrial Park, Gushu Road 2, Xixiang Town, Bao'an District, Shenzhen, China
Manufacturer	:	SHENZHEN REDLEAF TECHNOLOGY CO., LTD.
Address	:	3F, Building E, Huichao Industrial Park, Gushu Road 2, Xixiang Town, Bao'an District, Shenzhen, China
EUT Description	:	Trail Camera
	(A) Model No.	: T20WF, T21WF, T22WF, TC21, TC25, T20, T21, T22, 20160, 4K WiFi Slim, WK-10
	(B) Trademark	: Trail Camera

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....…..:	Yannis Wen Project Engineer	Yannis Wen
Approved by (name + signature)…....:	Reak Yang Project Manager	
Date of issue…… ……..:	July 12, 2023	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	July 12, 2023	Initial released Issue	Yannis Wen

1. Summary Of Standards And Results

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Conducted Emission	FCC Part 15: 15.207	P
6dB Bandwidth	FCC PART 15:15.247(a)(2)	P
Output Power	FCC Part 15: 15.247(b)(3)	P
Radiated Spurious Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d)	P
Conducted Spurious & Band Edge Emission	FCC Part 15: 15.247(d)	P
Power Spectral Density	FCC PART 15:15.247(e)	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d)	P
Antenna Requirement	FCC Part 15: 15.203	P
Note:	1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.	

2. General Information

2.1. Description of Device (EUT)

Description/PMN	:	Trail Camera
Model Number	:	T20WF, T21WF, T22WF, TC21, TC25, T20, T21, T22, 20160, 4K WiFi Slim, WK-10
Diff.	:	There is no difference between the models except the appearance color. So all the test were performed on the model T20WF.
Test Voltage	:	DC 5V from sun with DC 3.7V from battery.
Operation frequency	:	2412MHz-2462MHz for IEEE 802.11 b, g, n20 2422MHz-2452MHz for IEEE 802.11 n40
Modulation type	:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n :OFDM(64QAM, 16QAM, QPSK, BPSK)
Channel No.	:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40): 7
Antenna Type	:	Internal antenna, max gain 3.99dBi, (Antenna information is provided by applicant.)
Software version	:	V1.0
Hardware version	:	V1.0

Remark:
1. The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 2.4G WIFI function, and there is no other transmitter involved.
2. In this report, the main test model is B30, and the main test model serial number is 221213B0007.

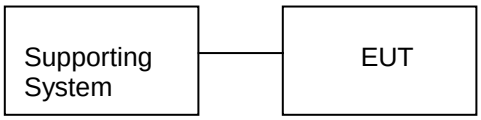
2.2. Accessories of Device (EUT)

Accessories	:	/
Manufacturer	:	/
Model	:	/
Ratings	:	/

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1.	Notebook PC	Lenovo	ThinkPad E14	N/A	**SDOC**

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Duty cycle :100%Keeping TX			
Mode	**data rate (Mbps)(see Note)**	**Channel**	**Frequency (MHz)**
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11 n/HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11 n/HT40	13.5	Low :CH3	2422
	13.5	Middle: CH6	2437
	13.5	High: CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test.			

Channel list:					
For IEEE 802.11b, g, n20, n40 with 2.4G					
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
CH1	2412	CH5	2432	CH9	2452
CH2	2417	CH6	2437	CH10	2457
CH3	2422	CH7	2442	CH11	2462
CH4	2427	CH8	2447		

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961
Designation Number: CN1236

July 15, 2019 Certificated by IC
Registration Number: 12135A

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.74dB(Polarize: V)
	3.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for radio frequency	5.06×10^{-8}GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9. Test Equipment List

Equipment	Manufacture	Model No.	Firmware version	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2022.05.17	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2022.08.22	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2022.08.22	1Year
Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2022.08.22	1Year
Receiver	R&S	ESCI	4.42 SP1	101165	2022.08.22	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	/	VULB 9168#627	2021.08.30	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2021.08.30	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00059	2021.08.30	2Year
RF Cable	Resenberger	Cable 1	/	RE1	2022.08.22	1Year
RF Cable	Resenberger	Cable 2	/	RE2	2022.08.22	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2022.08.22	1Year
Pre-amplifier	HP	HP8347A	/	2834A00455	2022.08.22	1Year
Pre-amplifier	Agilent	8449B	/	3008A02664	2022.08.22	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	/	8126-466	2022.08.22	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2022.08.23	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	/	00946	2021.08.30	2 Year
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2022.08.22	1 Year
Power Meter	Agilent	E9300A	/	MY41496628	2022.08.22	1 Year
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2022.08.22	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000-40-880	/	100631	2022.08.22	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2022.08.22	1 Year
Adjustable attenuator	MWRFtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	EZ	Alpha-3A1
CE	EZ-EMC	EZ	Alpha-3A1
RF-CE	MTS 8310	MW	V2.0.0.0

3. Spurious Emission

3.1. Test Limits

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Note 1: The peak limit is 20 dB higher than the average limit			
Note 2: Peak limit applies (AVG limit + 20 dB) as well as RSS-247 Section 5.5			

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Table 5 – General field strength limits at frequencies above 30 MHz	
Frequency (MHz)	**Field strength (μV/m at 3 m)**
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

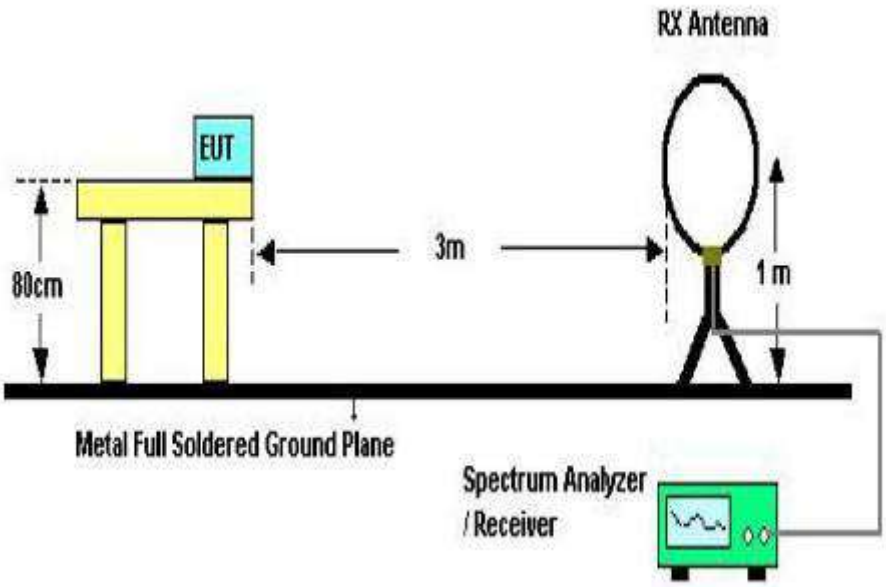
Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	**Magnetic field strength (H-Field) (μA/m)**	**Measurement distance (m)**
9 - 490 kHz[Note 1]	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

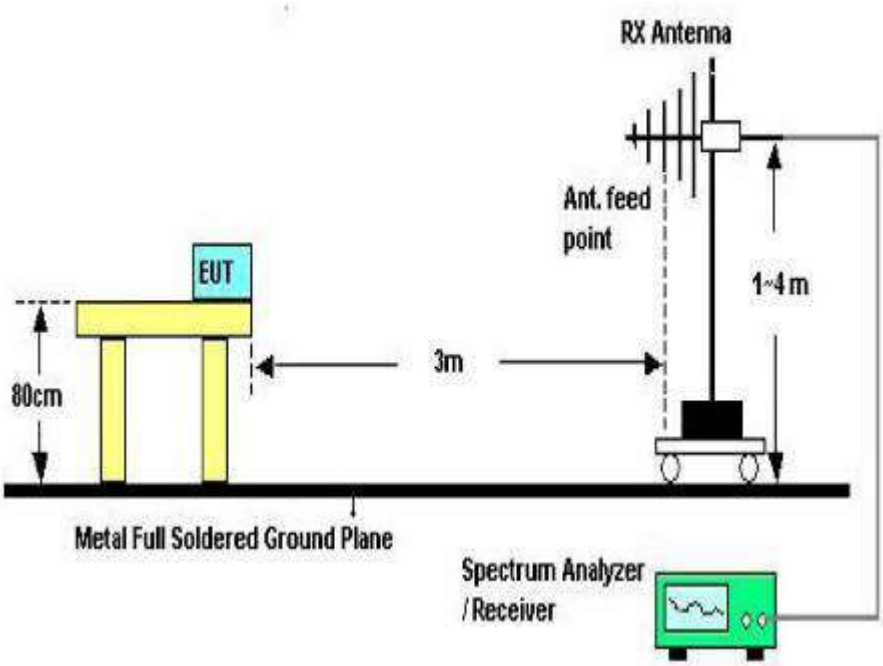
3.2. Test Procedure

The measuring distance of 3m shall be used for measurements at frequency up to 1GH and above 1GHz.
The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above1GHz testing, the table was rotated 360 degrees to determine the position of the highest radiation
The Test antenna shall vary between 1m and 4m, both Horizontal and Vertical antenna are set of make measurement.
The initial step in collecting radiated emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Quasi Peak Detector mode premeasured
If Peak value comply with QP limit below 1GHz, the EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
For the actual test configuration, please see the test setup photo.

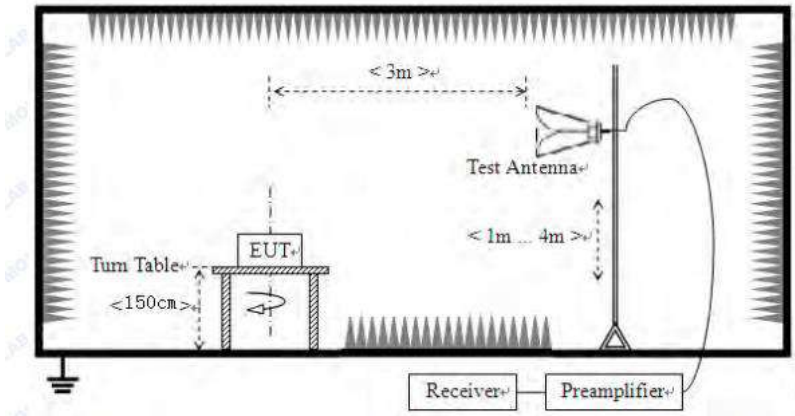
3.3. Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

3.4. Test Results

Test Condition
Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHZ~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the EUT from 9kHz up to the 10th harmonic of the fundamental.

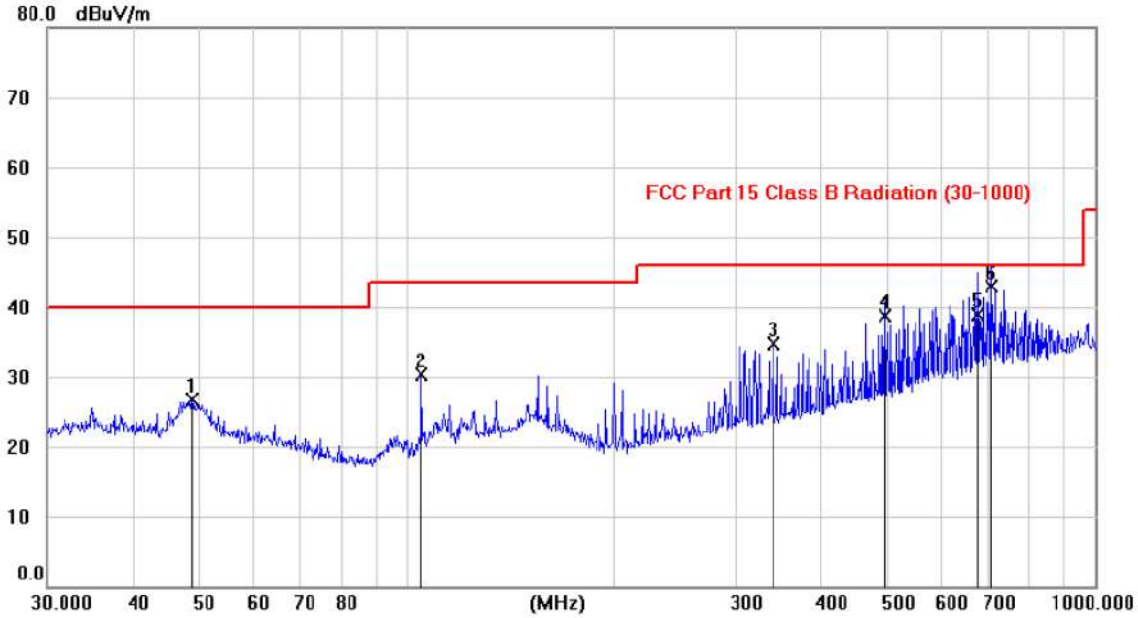
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note:1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2.Only show the test data of the worst Channel in this report.

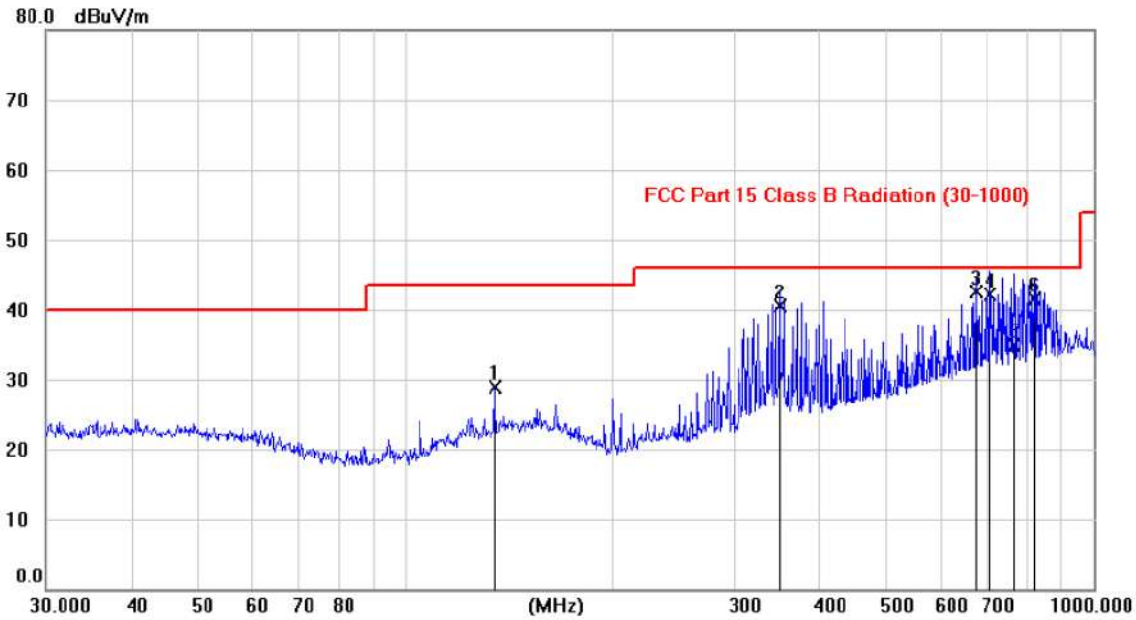
Test result for 802.11b (High Channel), AC 120V/ 60Hz
Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		48.7175	12.60	14.05	26.65	40.00	-13.35	peak			
2		105.0014	18.92	11.34	30.26	43.50	-13.24	peak			
3		339.9859	19.72	15.08	34.80	46.00	-11.20	peak			
4		495.0078	20.48	18.14	38.62	46.00	-7.38	QP			
5		675.0502	17.57	21.39	38.96	46.00	-7.04	QP			
6	*	704.9979	21.06	21.80	42.86	46.00	-3.14	QP			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		134.9845	15.01	13.95	28.96	43.50	-14.54	peak			
2		350.0265	25.33	15.23	40.56	46.00	-5.44	QP			
3	*	675.0502	21.09	21.39	42.48	46.00	-3.52	QP			
4		705.0011	20.27	21.80	42.07	46.00	-3.93	QP			
5		765.0729	12.24	22.64	34.88	46.00	-11.12	QP			
6		820.0793	18.41	23.13	41.54	46.00	-4.46	QP			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Remark: All modes have been tested, and only worst data of n20 mode, Channel 2437MHz was listed in this report.

From 1G-25GHz

Test Mode: IEEE 802.11b TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.03	V	33.95	10.18	34.26	55.90	74	-18.10	PK
4824	35.78	V	33.95	10.18	34.26	45.65	54	-8.35	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.21	H	33.95	10.18	34.26	57.08	74	-16.92	PK
4824	34.11	H	33.95	10.18	34.26	43.98	54	-10.02	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX Mid									
4874	49.43	V	33.95	10.20	34.26	59.32	74	-14.68	PK
4874	34.15	V	33.95	10.20	34.26	44.04	54	-9.96	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.35	H	33.95	10.20	34.26	58.24	74	-15.76	PK
4874	32.43	H	33.95	10.20	34.26	42.32	54	-11.68	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX High									
4924	46.32	V	33.98	10.22	34.25	56.27	74	-17.73	PK
4924	33.41	V	33.98	10.22	34.25	43.36	54	-10.64	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.14	H	33.98	10.22	34.25	57.09	74	-16.91	PK
4924	32.03	H	33.98	10.22	34.25	41.98	54	-12.02	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test Mode: IEEE 802.11g TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.90	V	33.95	10.18	34.26	56.77	74	-17.23	PK
4824	35.50	V	33.95	10.18	34.26	45.37	54	-8.63	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.15	H	33.95	10.18	34.26	57.02	74	-16.98	PK
4824	34.51	H	33.95	10.18	34.26	44.38	54	-9.62	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX Mid									
4874	49.42	V	33.95	10.20	34.26	59.31	74	-14.69	PK
4874	34.43	V	33.95	10.20	34.26	44.32	54	-9.68	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.58	H	33.95	10.20	34.26	58.47	74	-15.53	PK
4874	32.58	H	33.95	10.20	34.26	42.47	54	-11.53	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX High									
4924	46.64	V	33.98	10.22	34.25	56.59	74	-17.41	PK
4924	33.14	V	33.98	10.22	34.25	43.09	54	-10.91	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.54	H	33.98	10.22	34.25	57.49	74	-16.51	PK
4924	32.98	H	33.98	10.22	34.25	42.93	54	-11.07	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test ModeIEEE 802.11n HT20 TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.46	V	33.95	10.18	34.26	56.33	74	-17.67	PK
4824	35.55	V	33.95	10.18	34.26	45.42	54	-8.58	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.08	H	33.95	10.18	34.26	56.95	74	-17.05	PK
4824	34.72	H	33.95	10.18	34.26	44.59	54	-9.41	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode:IEEE 802.11n HT20 TX Mid									
4874	49.44	V	33.95	10.20	34.26	59.33	74	-14.67	PK
4874	34.38	V	33.95	10.20	34.26	44.27	54	-9.73	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.73	H	33.95	10.20	34.26	58.62	74	-15.38	PK
4874	32.49	H	33.95	10.20	34.26	42.38	54	-11.62	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode:IEEE 802.11n HT20 TX High									
4924	46.37	V	33.98	10.22	34.25	56.32	74	-17.68	PK
4924	33.15	V	33.98	10.22	34.25	43.10	54	-10.90	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.99	H	33.98	10.22	34.25	57.94	74	-16.06	PK
4924	32.14	H	33.98	10.22	34.25	42.09	54	-11.91	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test ModeIEEE 802.11n40 HT40 TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.11	V	33.95	10.18	34.26	55.98	74	-18.02	PK
4824	35.30	V	33.95	10.18	34.26	45.17	54	-8.83	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.53	H	33.95	10.18	34.26	57.40	74	-16.60	PK
4824	34.83	H	33.95	10.18	34.26	44.70	54	-9.30	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode:IEEE 802.11n40 HT40 TX Mid									
4874	49.88	V	33.95	10.20	34.26	59.77	74	-14.23	PK
4874	34.23	V	33.95	10.20	34.26	44.12	54	-9.88	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.94	H	33.95	10.20	34.26	58.83	74	-15.17	PK
4874	32.58	H	33.95	10.20	34.26	42.47	54	-11.53	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode:IEEE 802.11n40 HT40 TX High									
4924	46.28	V	33.98	10.22	34.25	56.23	74	-17.77	PK
4924	33.20	V	33.98	10.22	34.25	43.15	54	-10.85	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.84	H	33.98	10.22	34.25	57.79	74	-16.21	PK
4924	32.74	H	33.98	10.22	34.25	42.69	54	-11.31	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

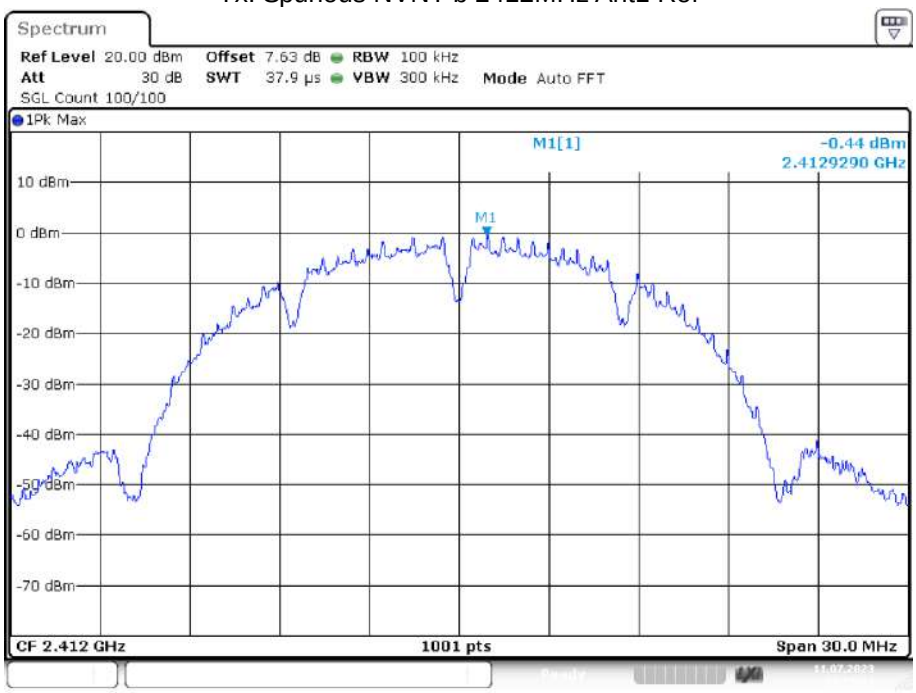
Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

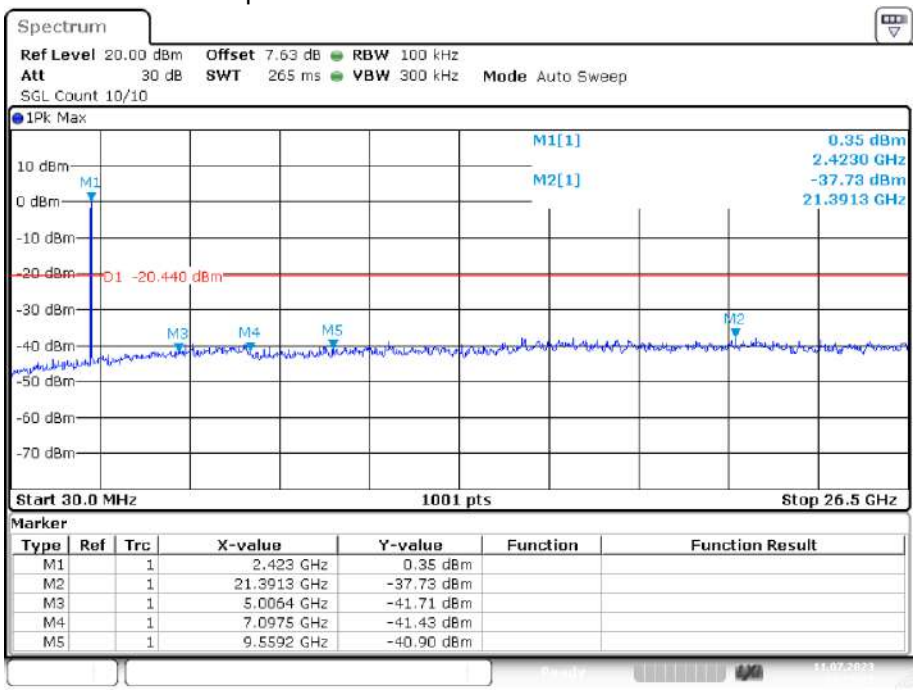
Conducted RF Spurious Emission

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Date: 11.JUL.2023 14:39:34

Tx. Spurious NVNT b 2412MHz Ant1 Emission

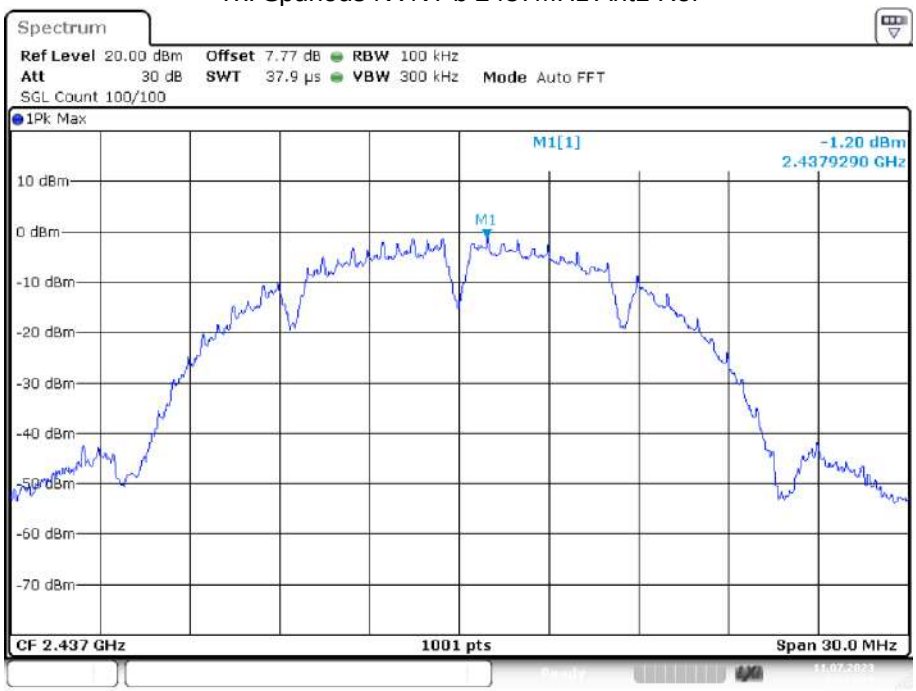


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	0.35 dBm		
M2		1	21.3913 GHz	-37.73 dBm		
M3		1	5.0064 GHz	-41.71 dBm		
M4		1	7.0975 GHz	-41.43 dBm		
M5		1	9.5592 GHz	-40.90 dBm		

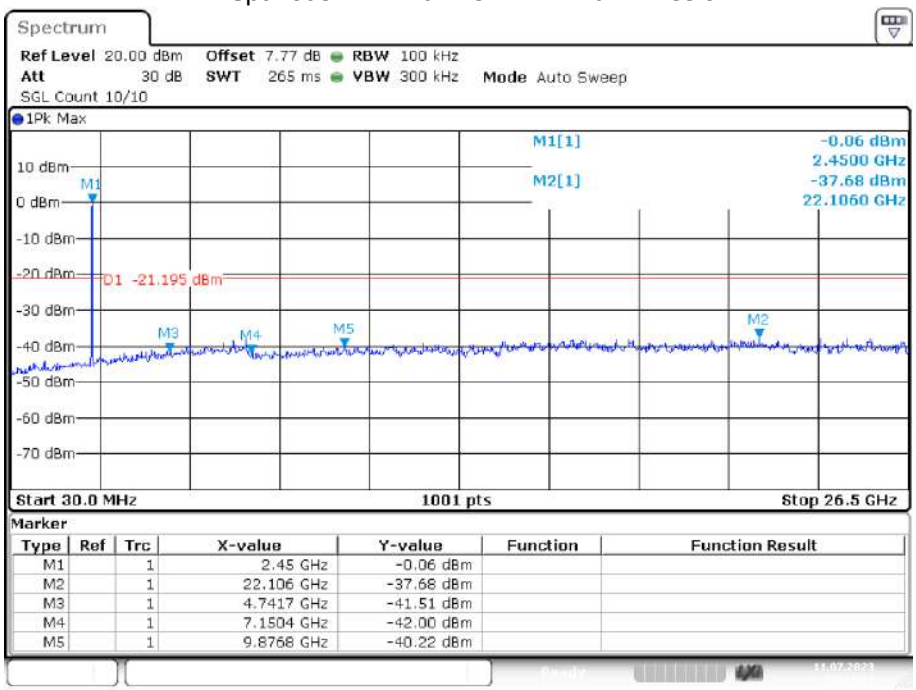
Date: 11.JUL.2023 14:39:52

Tx. Spurious NVNT b 2437MHz Ant1 Ref



Date: 11.JUL.2023 14:43:22

Tx. Spurious NVNT b 2437MHz Ant1 Emission

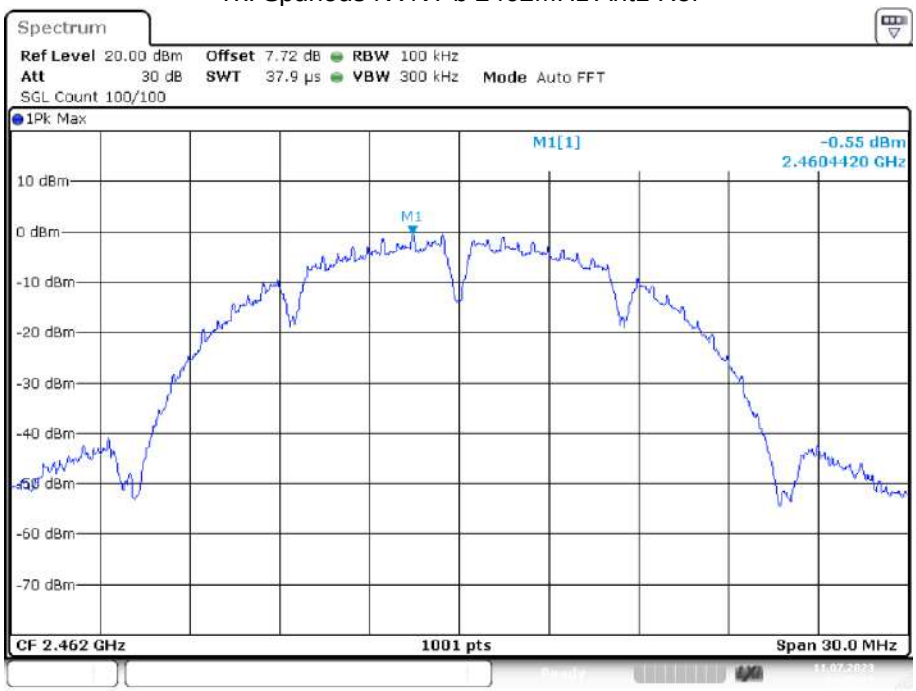


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-0.06 dBm		
M2		1	22.106 GHz	-37.68 dBm		
M3		1	4.7417 GHz	-41.51 dBm		
M4		1	7.1504 GHz	-42.00 dBm		
M5		1	9.8768 GHz	-40.22 dBm		

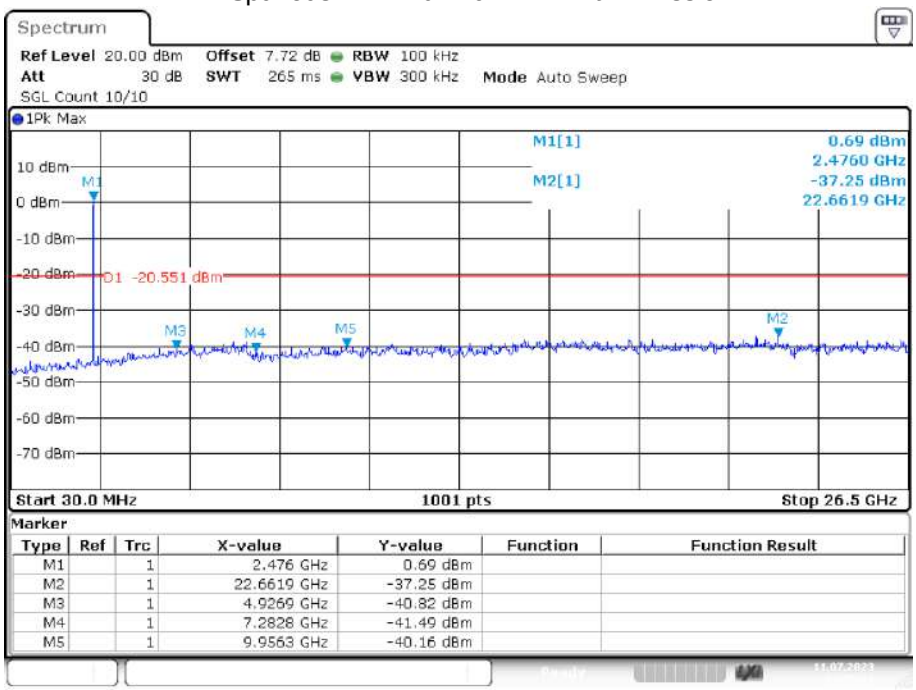
Date: 11.JUL.2023 14:43:40

Tx. Spurious NVNT b 2462MHz Ant1 Ref



Date: 11.JUL.2023 14:47:33

Tx. Spurious NVNT b 2462MHz Ant1 Emission

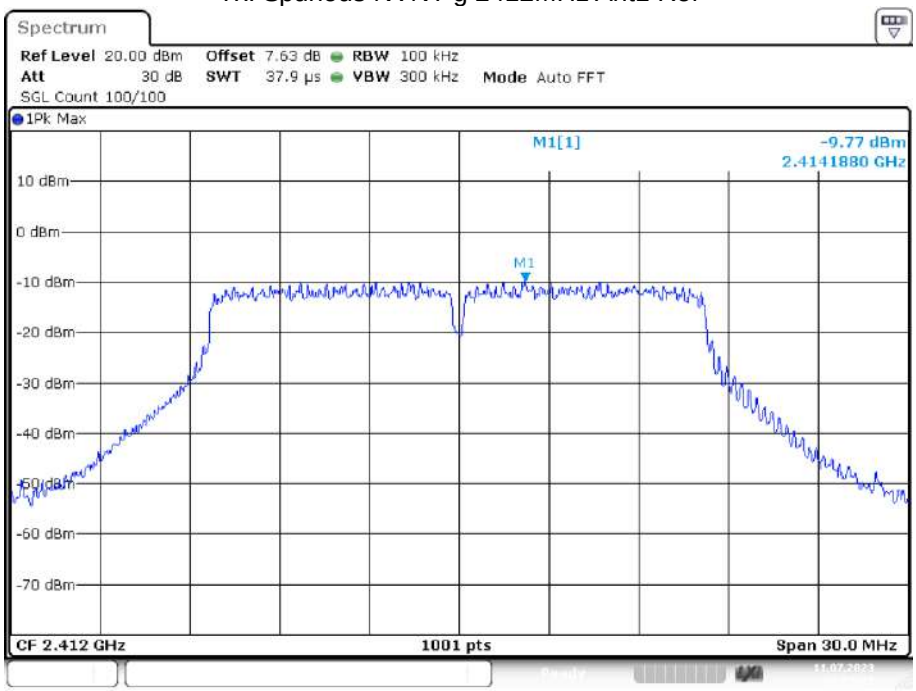


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	0.69 dBm		
M2		1	22.6619 GHz	-37.25 dBm		
M3		1	4.9269 GHz	-40.82 dBm		
M4		1	7.2828 GHz	-41.49 dBm		
M5		1	9.9563 GHz	-40.16 dBm		

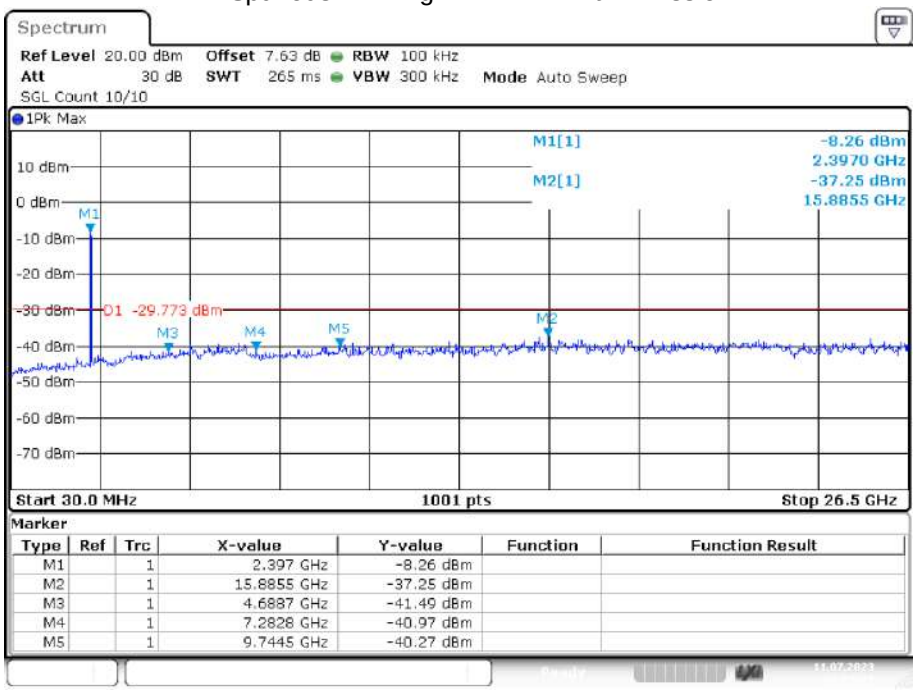
Date: 11.JUL.2023 14:47:51

Tx. Spurious NVNT g 2412MHz Ant1 Ref



Date: 11.JUL.2023 15:03:02

Tx. Spurious NVNT g 2412MHz Ant1 Emission

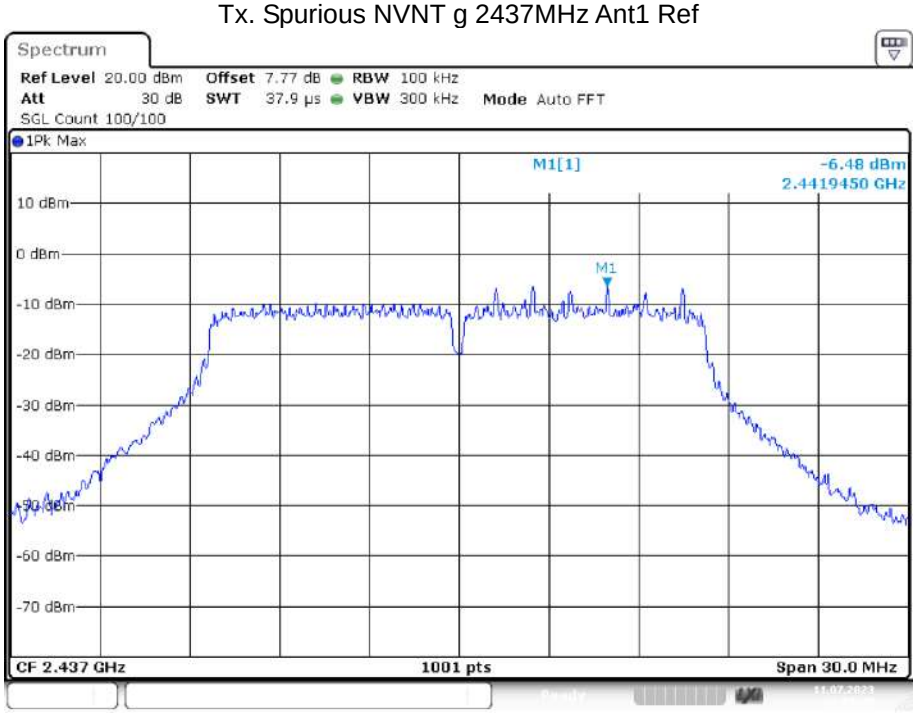


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.397 GHz	-8.26 dBm		
M2		1	15.8855 GHz	-37.25 dBm		
M3		1	4.6887 GHz	-41.49 dBm		
M4		1	7.2828 GHz	-40.97 dBm		
M5		1	9.7445 GHz	-40.27 dBm		

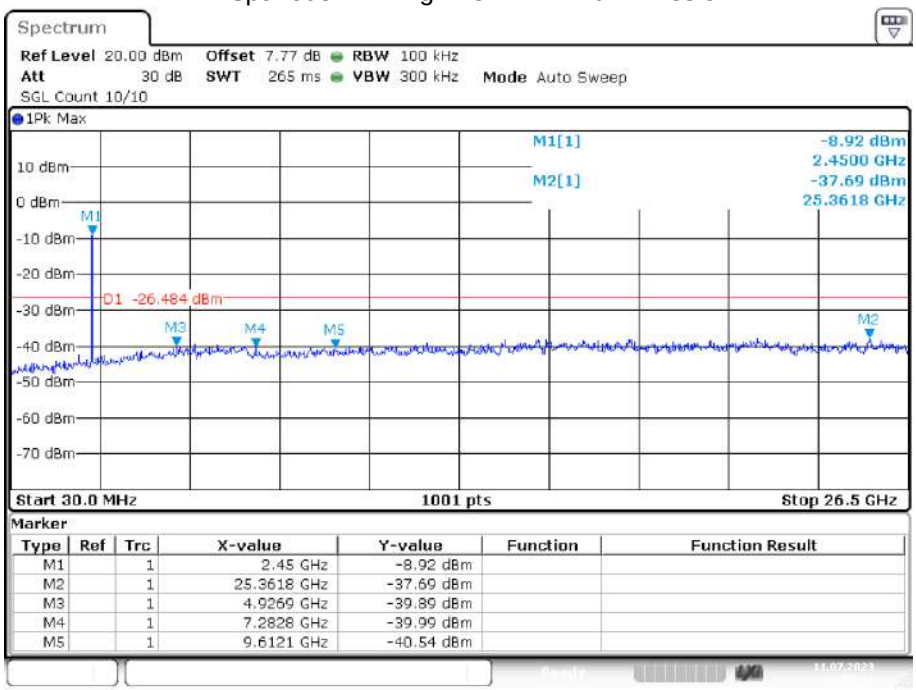
Date: 11.JUL.2023 15:03:20

Tx. Spurious NVNT g 2437MHz Ant1 Ref



Date: 11.JUL.2023 15:05:55

Tx. Spurious NVNT g 2437MHz Ant1 Emission

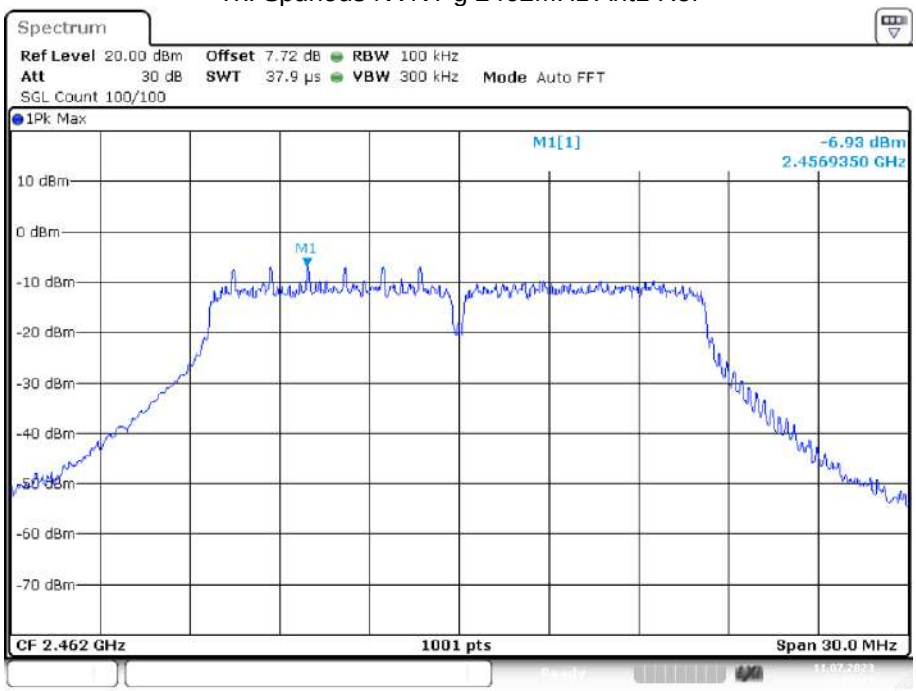


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-8.92 dBm		
M2		1	25.3618 GHz	-37.69 dBm		
M3		1	4.9269 GHz	-39.89 dBm		
M4		1	7.2828 GHz	-39.99 dBm		
M5		1	9.6121 GHz	-40.54 dBm		

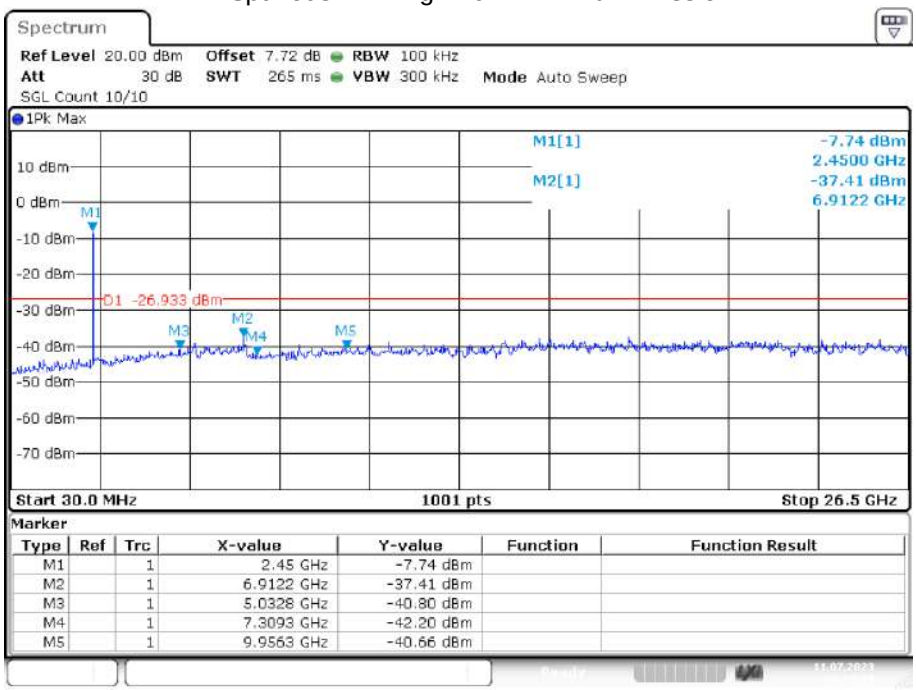
Date: 11.JUL.2023 15:06:13

Tx. Spurious NVNT g 2462MHz Ant1 Ref



Date: 11.JUL.2023 15:09:52

Tx. Spurious NVNT g 2462MHz Ant1 Emission

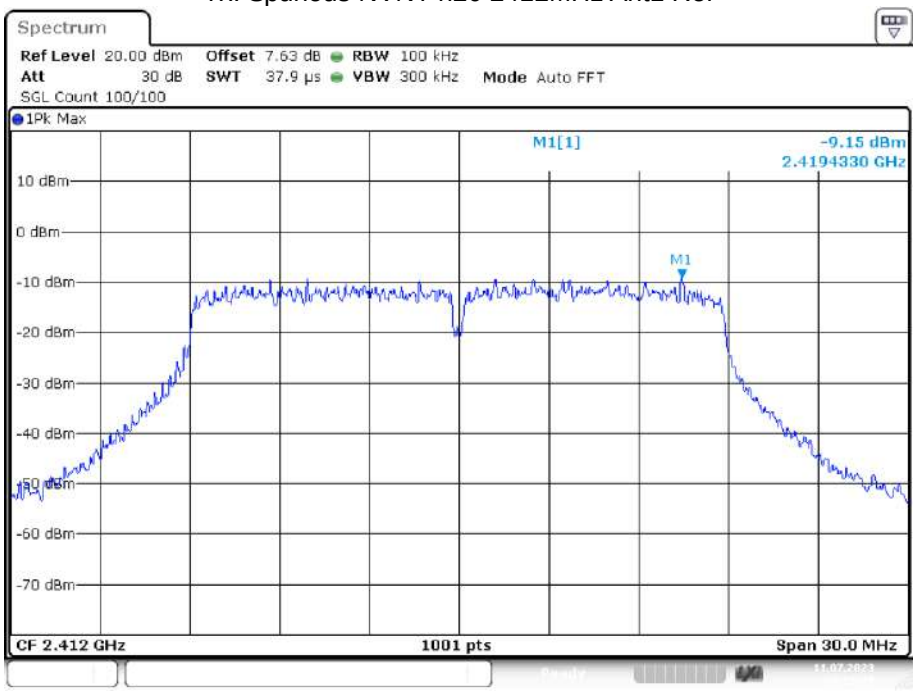


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-7.74 dBm		
M2		1	6.9122 GHz	-37.41 dBm		
M3		1	5.0328 GHz	-40.80 dBm		
M4		1	7.3093 GHz	-42.20 dBm		
M5		1	9.9563 GHz	-40.66 dBm		

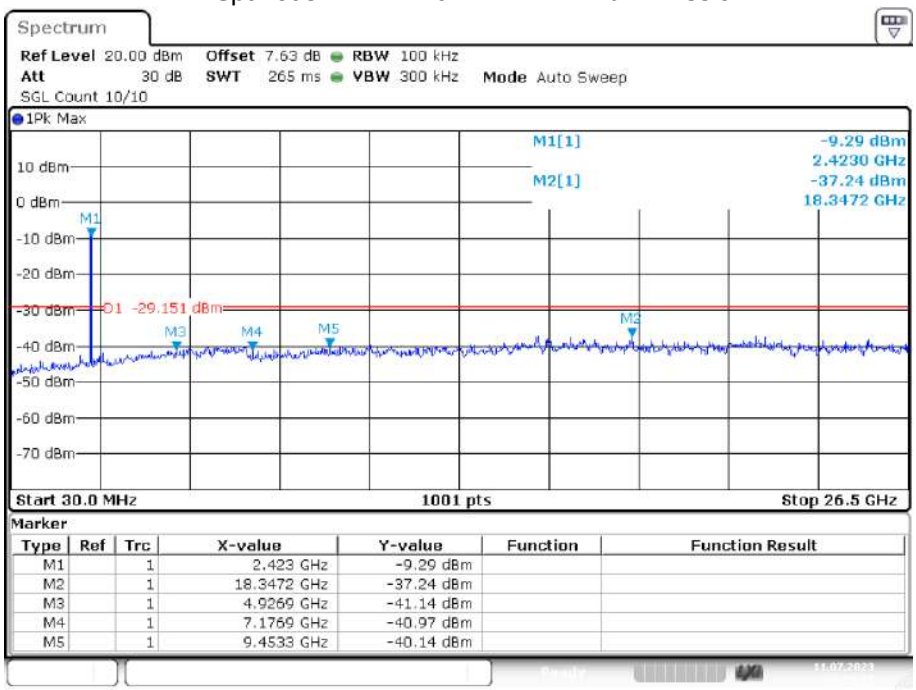
Date: 11.JUL.2023 15:10:10

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Date: 11.JUL.2023 15:12:59

Tx. Spurious NVNT n20 2412MHz Ant1 Emission

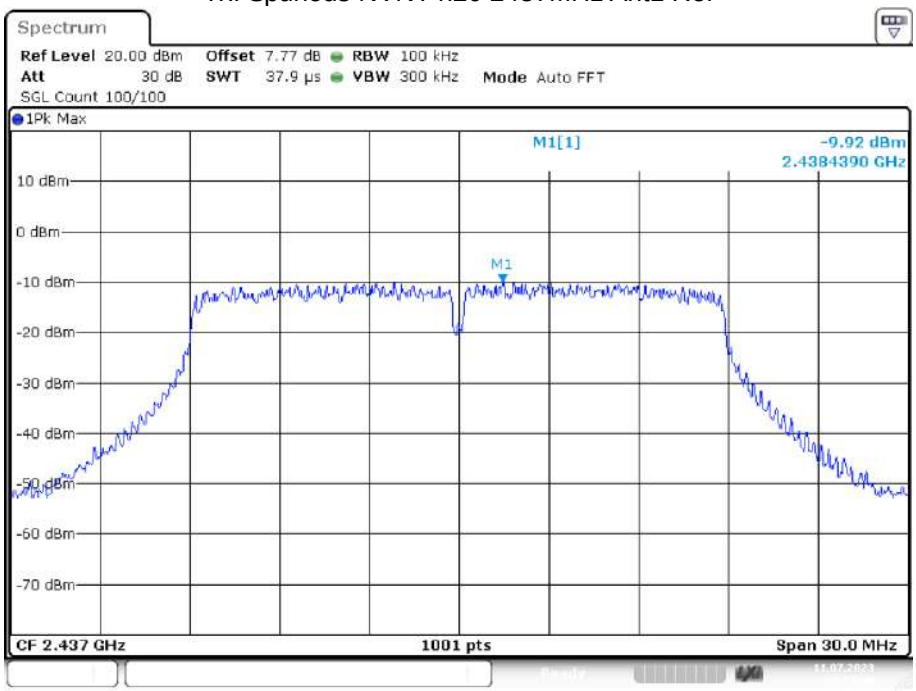


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-9.29 dBm		
M2		1	18.3472 GHz	-37.24 dBm		
M3		1	4.9269 GHz	-41.14 dBm		
M4		1	7.1769 GHz	-40.97 dBm		
M5		1	9.4533 GHz	-40.14 dBm		

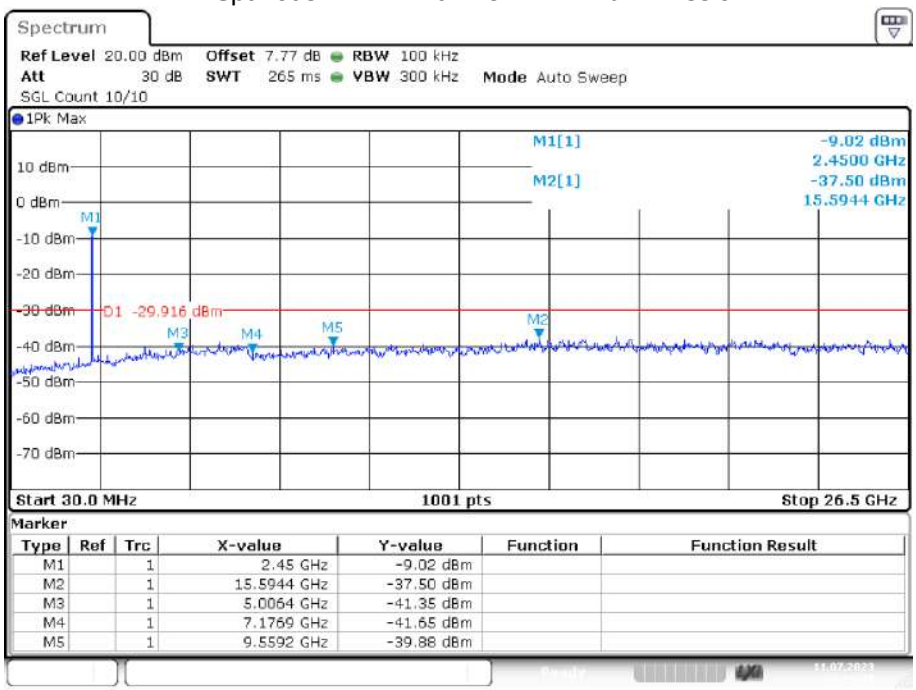
Date: 11.JUL.2023 15:13:17

Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Date: 11.JUL.2023 15:15:46

Tx. Spurious NVNT n20 2437MHz Ant1 Emission

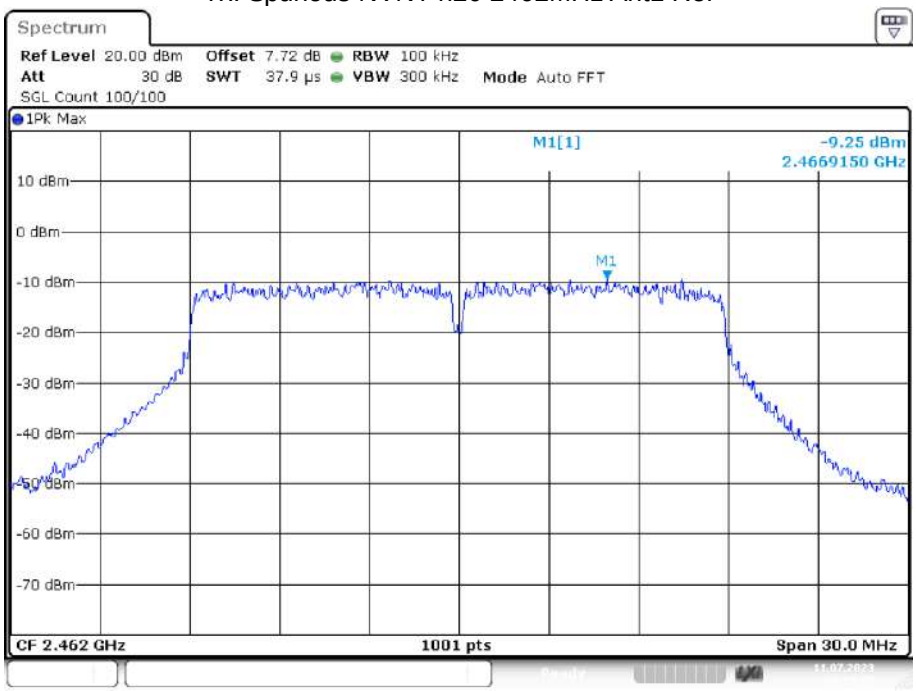


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-9.02 dBm		
M2		1	15.5944 GHz	-37.50 dBm		
M3		1	5.0064 GHz	-41.35 dBm		
M4		1	7.1769 GHz	-41.65 dBm		
M5		1	9.5592 GHz	-39.88 dBm		

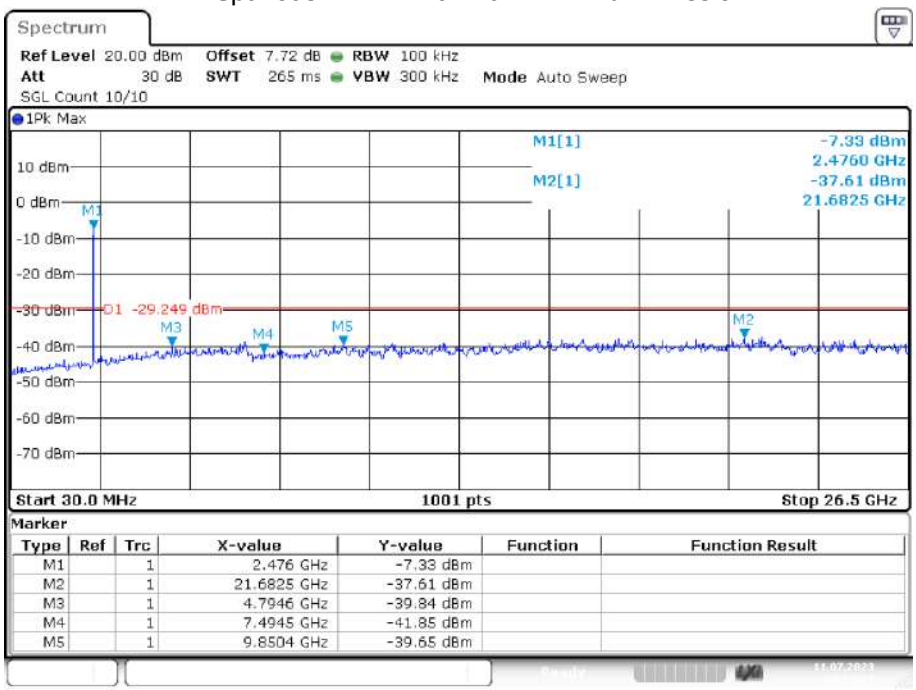
Date: 11.JUL.2023 15:16:04

Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Date: 11.JUL.2023 15:19:26

Tx. Spurious NVNT n20 2462MHz Ant1 Emission

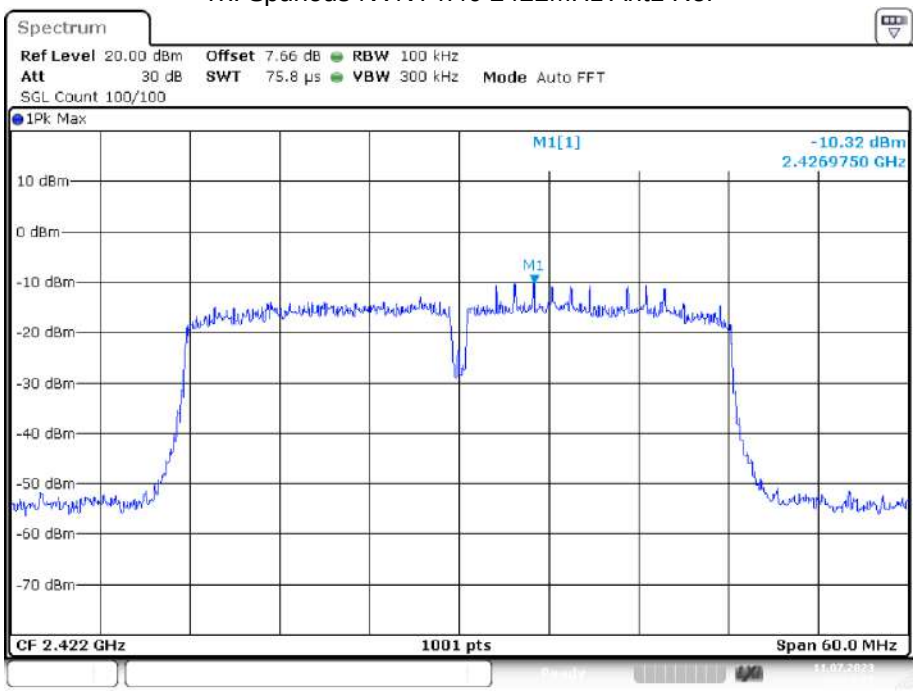


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	-7.33 dBm		
M2		1	21.6825 GHz	-37.61 dBm		
M3		1	4.7946 GHz	-39.84 dBm		
M4		1	7.4945 GHz	-41.85 dBm		
M5		1	9.8504 GHz	-39.65 dBm		

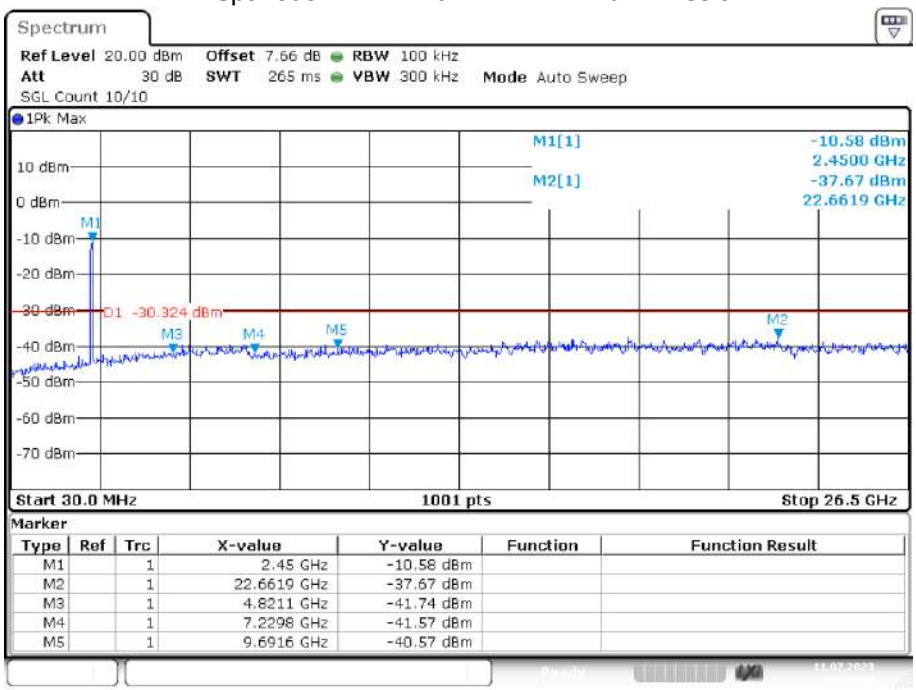
Date: 11.JUL.2023 15:19:44

Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Date: 11.JUL.2023 15:24:27

Tx. Spurious NVNT n40 2422MHz Ant1 Emission

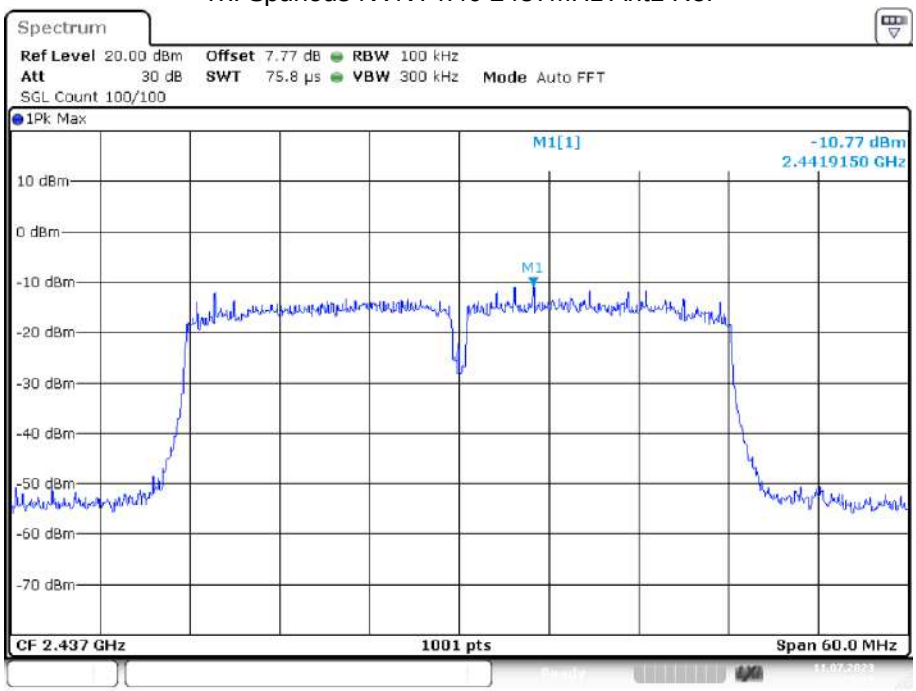


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-10.58 dBm		
M2		1	22.6619 GHz	-37.67 dBm		
M3		1	4.8211 GHz	-41.74 dBm		
M4		1	7.2298 GHz	-41.57 dBm		
M5		1	9.6916 GHz	-40.57 dBm		

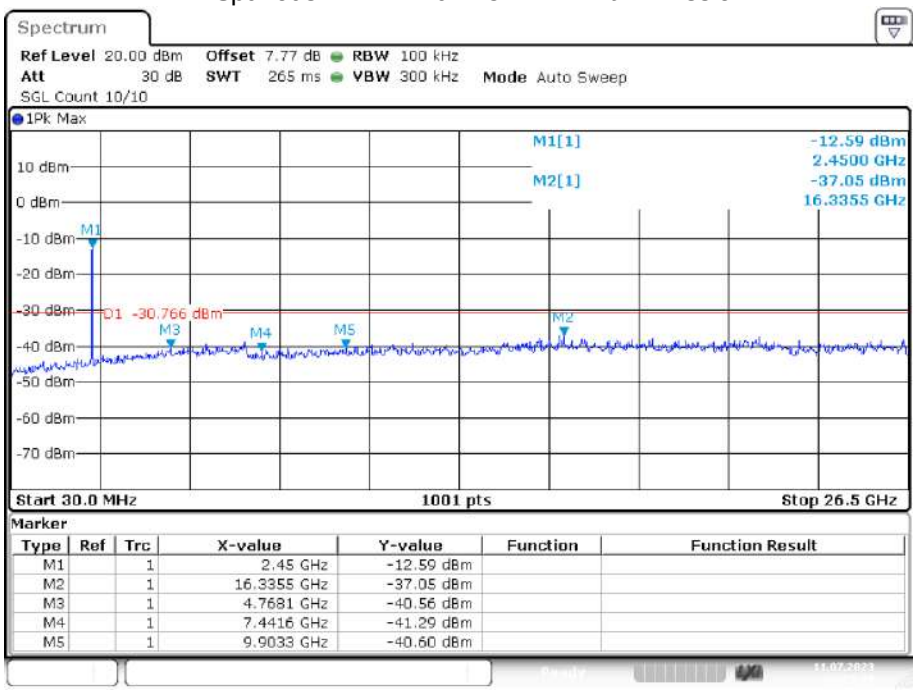
Date: 11.JUL.2023 15:24:45

Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Date: 11.JUL.2023 15:27:52

Tx. Spurious NVNT n40 2437MHz Ant1 Emission

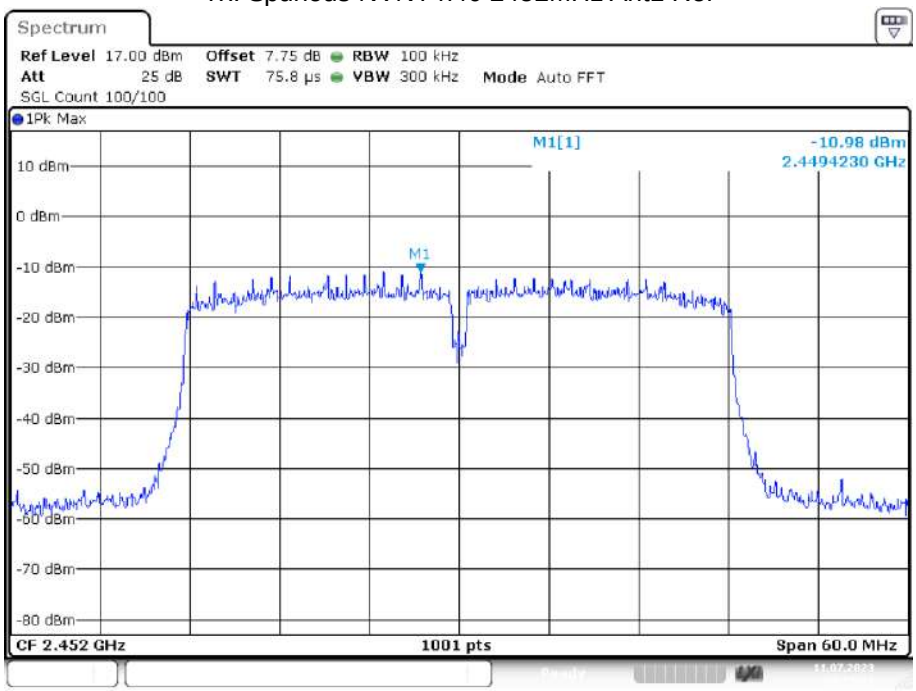


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-12.59 dBm		
M2		1	16.3355 GHz	-37.05 dBm		
M3		1	4.7681 GHz	-40.56 dBm		
M4		1	7.4416 GHz	-41.29 dBm		
M5		1	9.9033 GHz	-40.60 dBm		

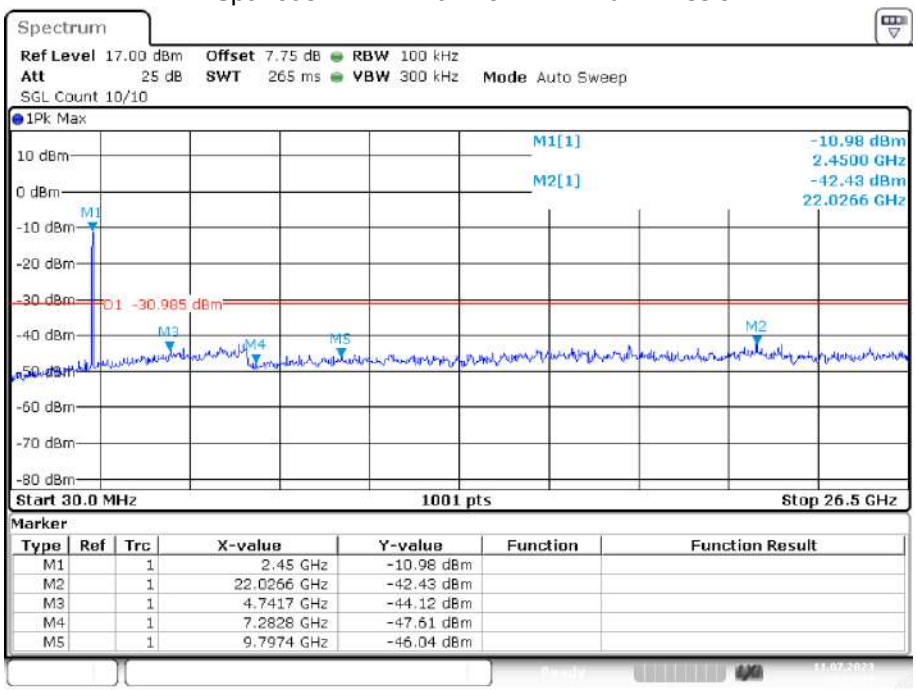
Date: 11.JUL.2023 15:28:10

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Date: 11.JUL.2023 15:31:31

Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-10.98 dBm		
M2		1	22.0266 GHz	-42.43 dBm		
M3		1	4.7417 GHz	-44.12 dBm		
M4		1	7.2828 GHz	-47.61 dBm		
M5		1	9.7974 GHz	-46.04 dBm		

Date: 11.JUL.2023 15:31:49

4. Power Line Conducted Emission

4.1. Test Limits

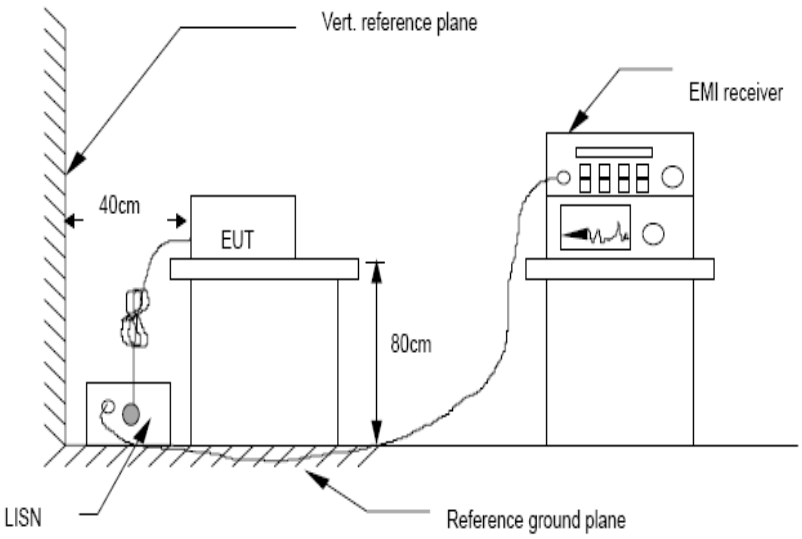
Frequency	Limits dB(μV)	
MHz	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.
3.The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs.
Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10:2013 on Conducted Emission Measurement.
The bandwidth of test receiver is set at 9 kHz.

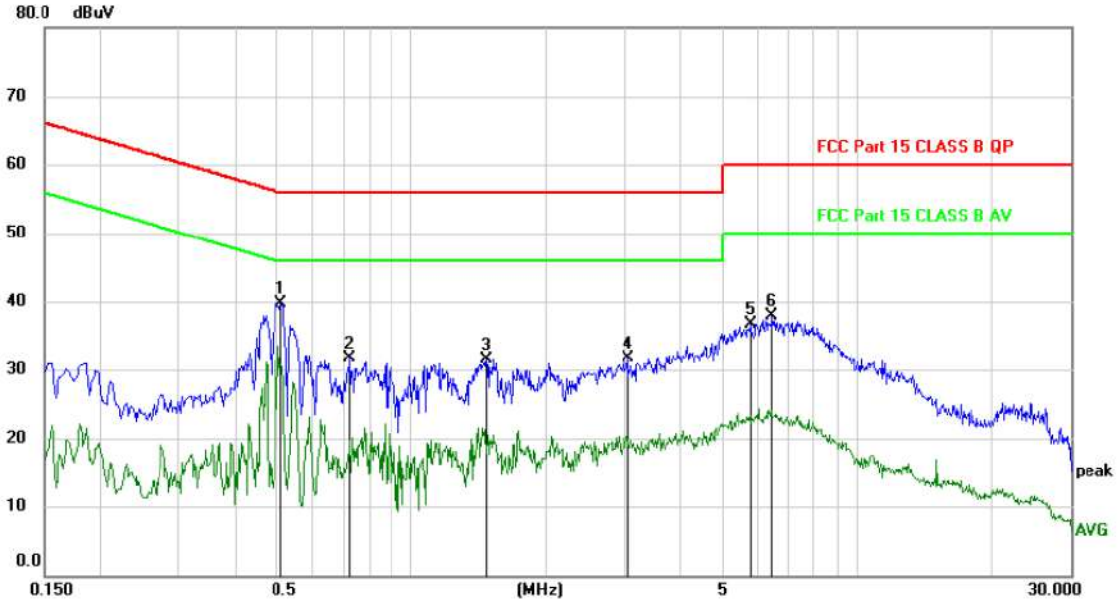
4.3. Test Setup



4.4. Test Results

Pass

Polarity: L

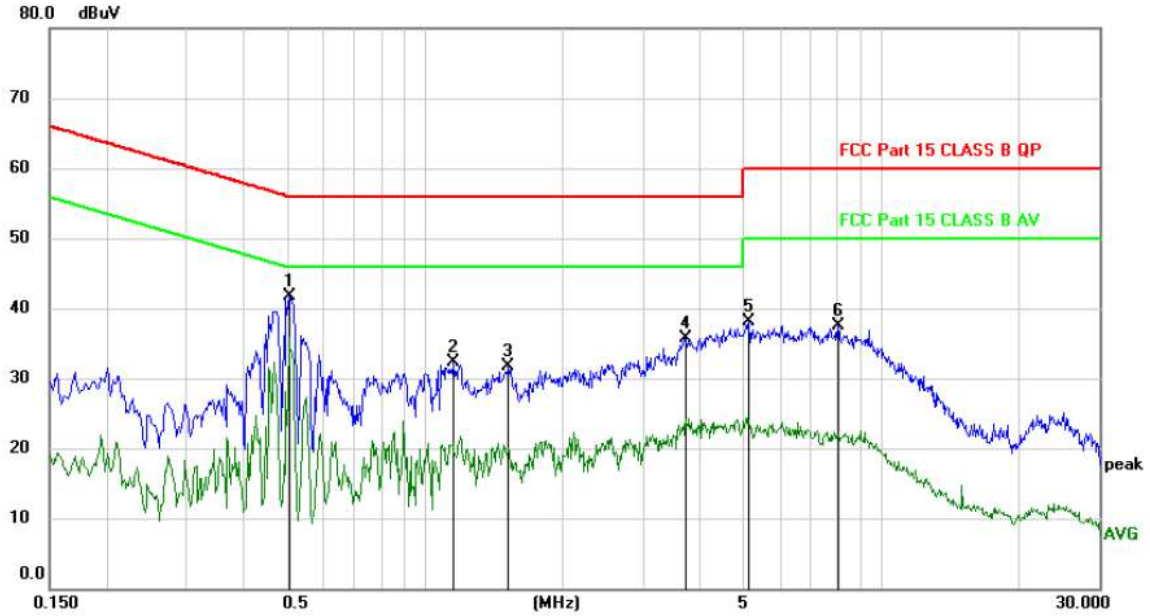


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.5100	29.86	9.83	39.69	56.00	-16.31	peak	
2		0.7259	21.84	9.84	31.68	56.00	-24.32	peak	
3		1.4669	21.70	9.80	31.50	56.00	-24.50	peak	
4		3.0510	21.86	9.80	31.66	56.00	-24.34	peak	
5		5.7660	26.86	9.91	36.77	60.00	-23.23	peak	
6		6.4470	28.04	9.91	37.95	60.00	-22.05	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Polarity: N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.5070	31.95	9.83	41.78	56.00	-14.22	peak	
2		1.1549	22.48	9.82	32.30	56.00	-23.70	peak	
3		1.5208	21.83	9.80	31.63	56.00	-24.37	peak	
4		3.7290	25.96	9.84	35.80	56.00	-20.20	peak	
5		5.1239	28.17	9.90	38.07	60.00	-21.93	peak	
6		8.0579	27.64	9.94	37.58	60.00	-22.42	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the BLE 2402MHz(1Mbps) mode with the worst data is listed.

5. Conducted Maximum Output Power

5.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247.

Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1 W(30dBm)

5.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

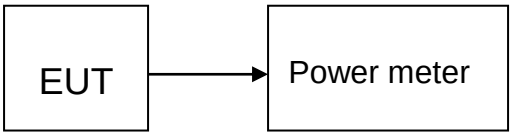
5.2.1 Place the EUT on the table and set it in transmitting mode.

5.2.2 Connected the EUT's antenna port to peak power meter by 20dB attenuator.

5.2.3 Measure out each mode and each bands AVG output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.3. Test Setup



5.4. Test Results

PASS

Detailed information please sees the following page.

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.694	0.01	13.704	30	Pass
NVNT	b	2437	Ant1	13.248	0.01	13.258	30	Pass
NVNT	b	2462	Ant1	13.918	0	13.918	30	Pass
NVNT	g	2412	Ant1	13.237	0.06	13.297	30	Pass
NVNT	g	2437	Ant1	13.501	0.05	13.551	30	Pass
NVNT	g	2462	Ant1	13.372	0.05	13.422	30	Pass
NVNT	n20	2412	Ant1	13.488	0.07	13.558	30	Pass
NVNT	n20	2437	Ant1	13.622	0.05	13.672	30	Pass
NVNT	n20	2462	Ant1	13.849	0.06	13.909	30	Pass
NVNT	n40	2422	Ant1	13.613	0.13	13.743	30	Pass
NVNT	n40	2437	Ant1	13.668	0.1	13.768	30	Pass
NVNT	n40	2452	Ant1	13.603	0.1	13.703	30	Pass

6. Peak Power Spectral Density

6.1. Test limits

6.1.1 Please refer RSS-247 & FCC PART 15: 15.247.

6.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

6.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

6.2.1 Place the EUT on the table and set it in transmitting mode.

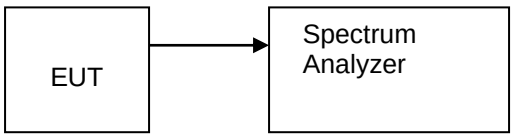
6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.2.3 Set the spectrum analyzer as RBW = 100kHz(Set the RBW to: 3 kHz≤RBW≤100 kHz.), VBW = 300kHz(Set the VBW≥3×RBW), span≥1.5×DTS bandwidth., detail see the test plot.

6.2.4 Record the max reading.

6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

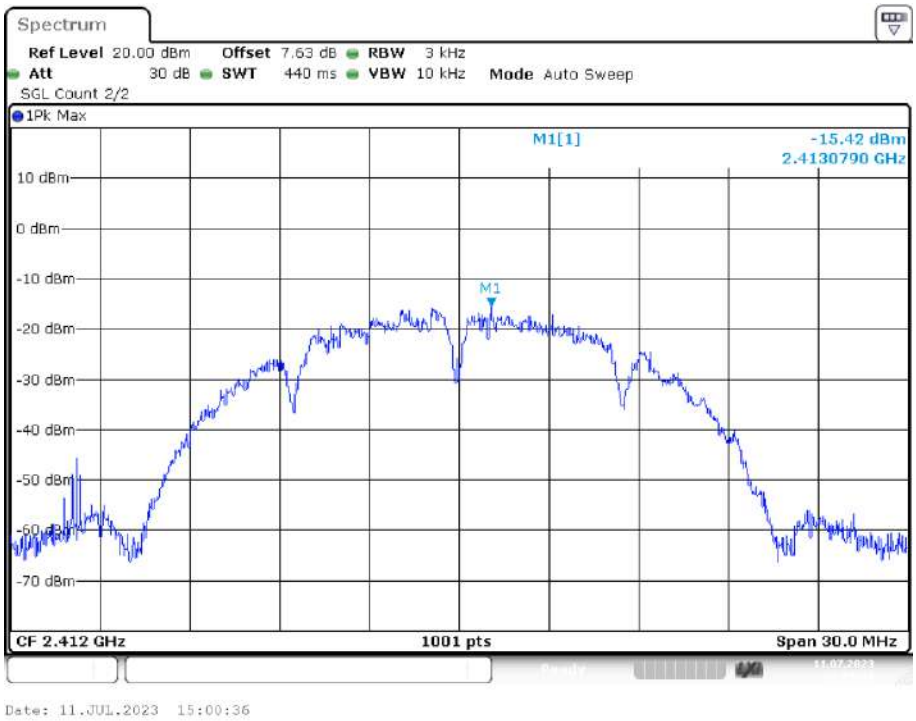
6.3. Test Setup



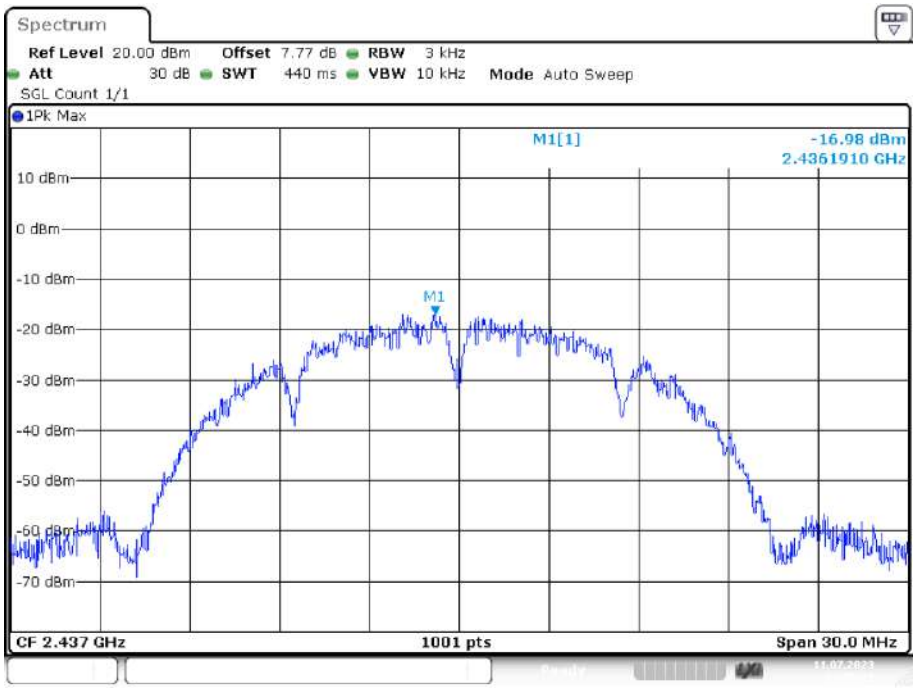
6.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-15.422	8	Pass
NVNT	b	2437	Ant1	-16.976	8	Pass
NVNT	b	2462	Ant1	-15.379	8	Pass
NVNT	g	2412	Ant1	-23.304	8	Pass
NVNT	g	2437	Ant1	-22.563	8	Pass
NVNT	g	2462	Ant1	-22.063	8	Pass
NVNT	n20	2412	Ant1	-21.787	8	Pass
NVNT	n20	2437	Ant1	-21.89	8	Pass
NVNT	n20	2462	Ant1	-21.576	8	Pass
NVNT	n40	2422	Ant1	-25.249	8	Pass
NVNT	n40	2437	Ant1	-24.678	8	Pass
NVNT	n40	2452	Ant1	-25.364	8	Pass

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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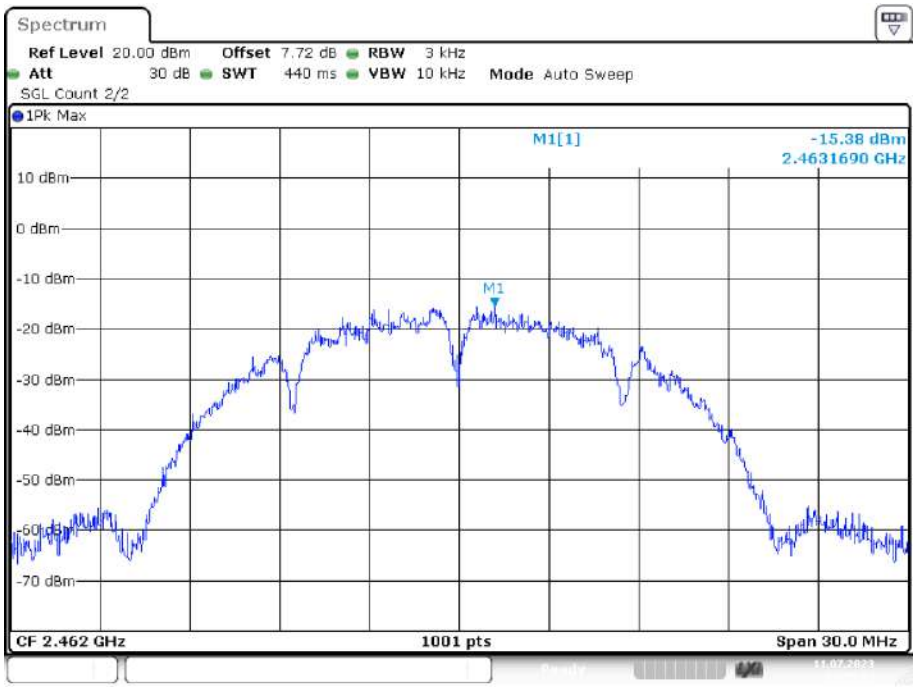
PSD NVNT b 2462MHz Ant1



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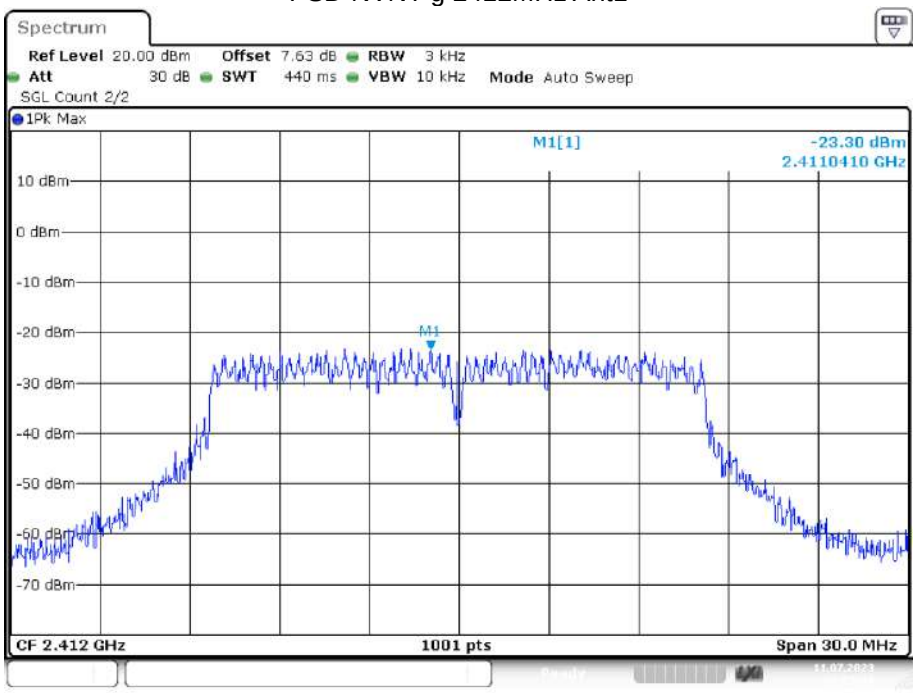
PSD NVNT g 2412MHz Ant1



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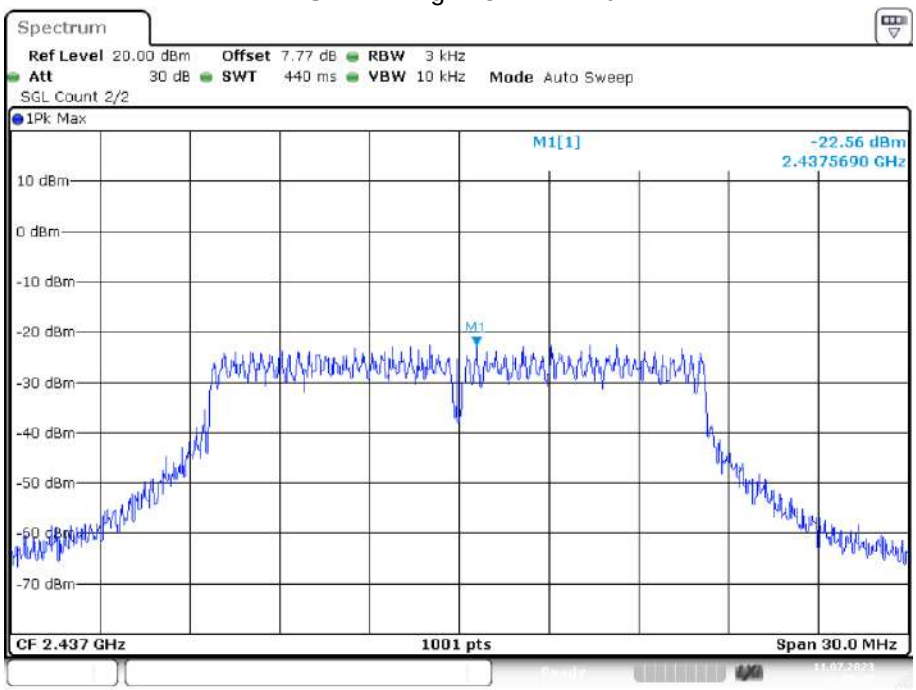

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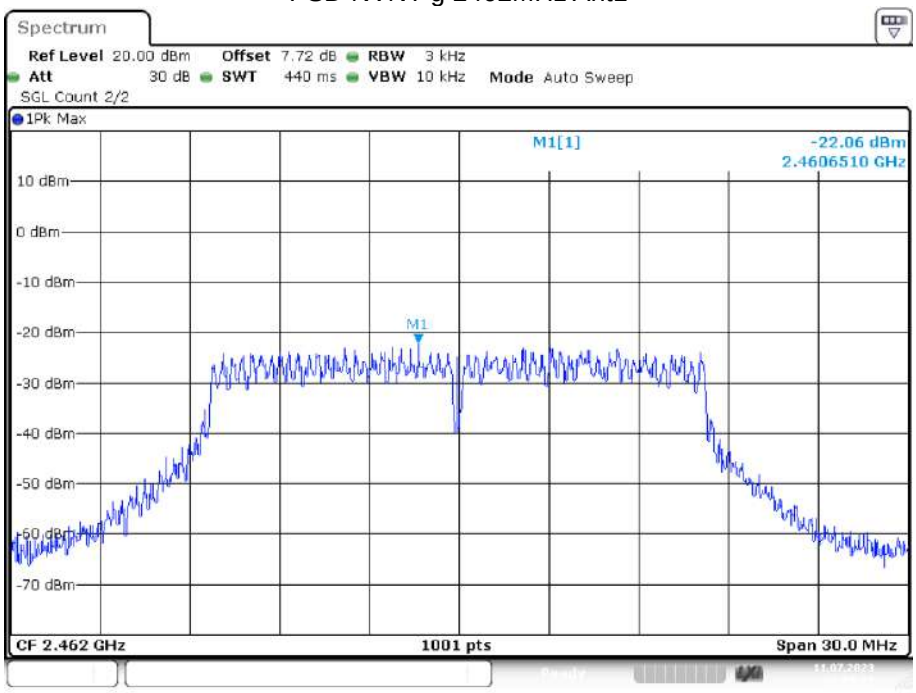
PSD NVNT g 2462MHz Ant1



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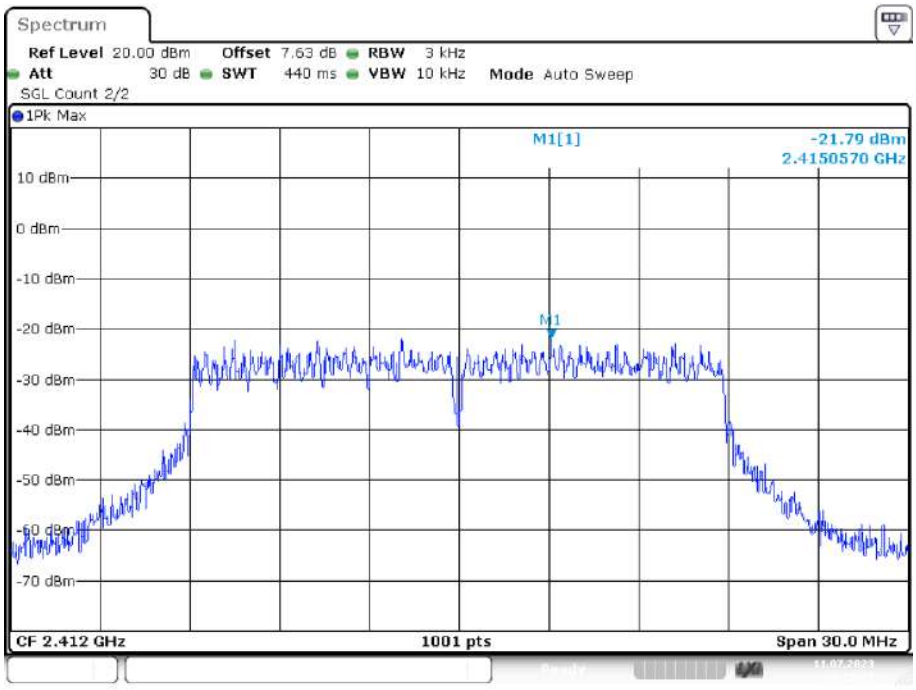
PSD NVNT n20 2412MHz Ant1



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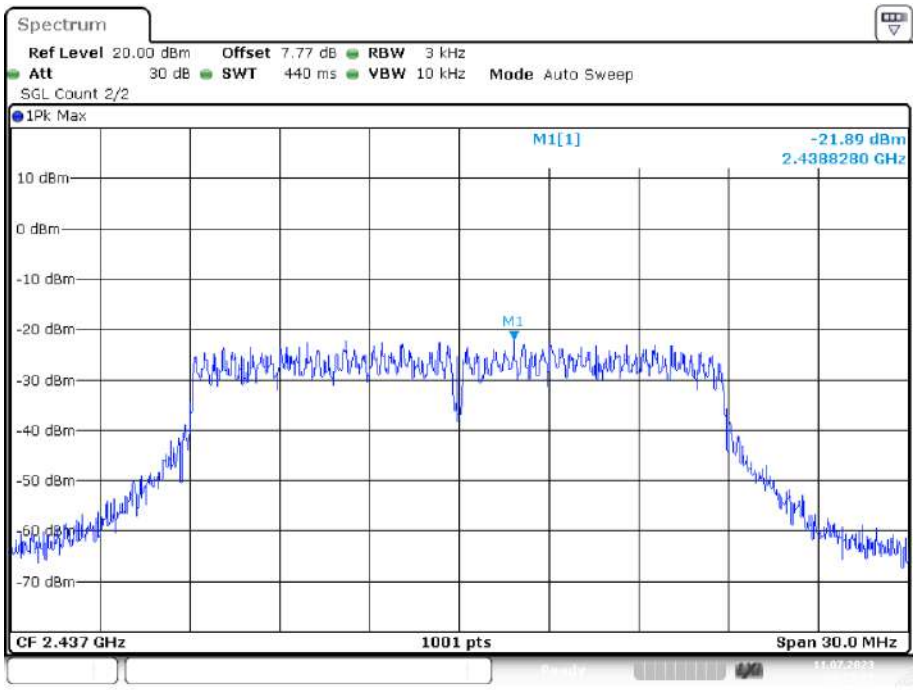

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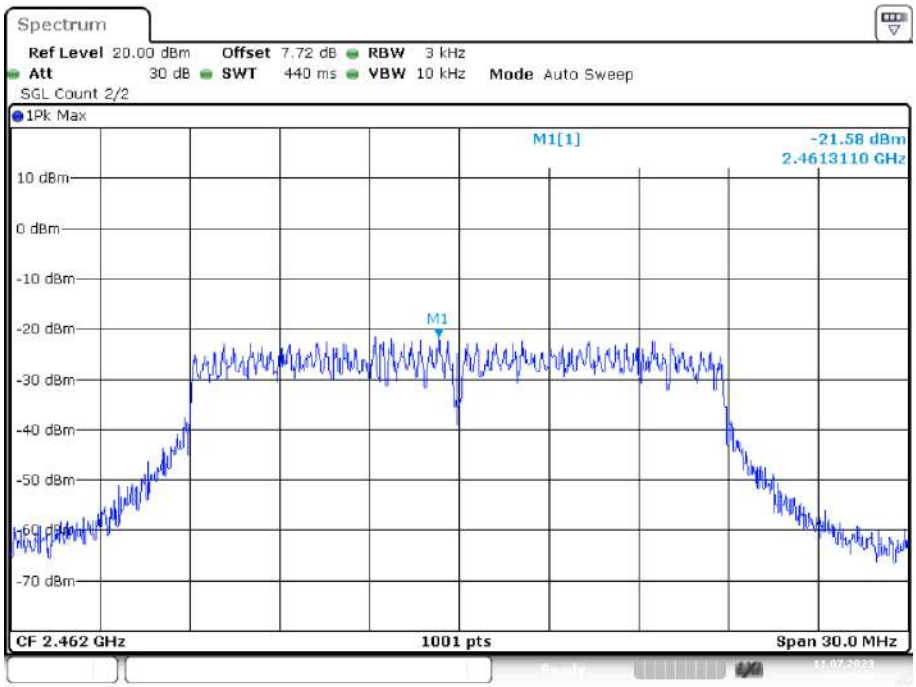

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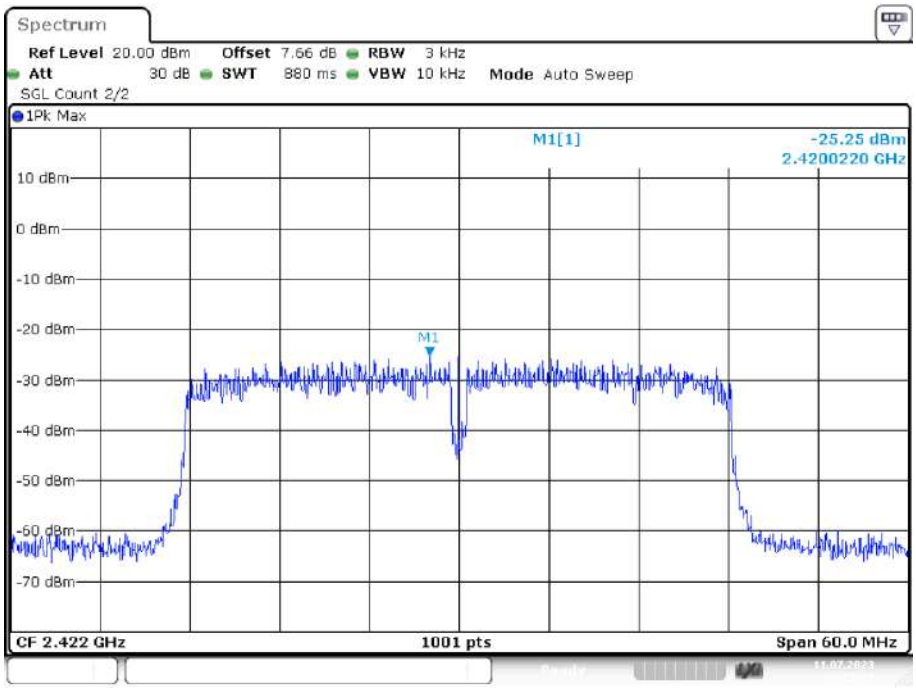
PSD NVNT n40 2422MHz Ant1



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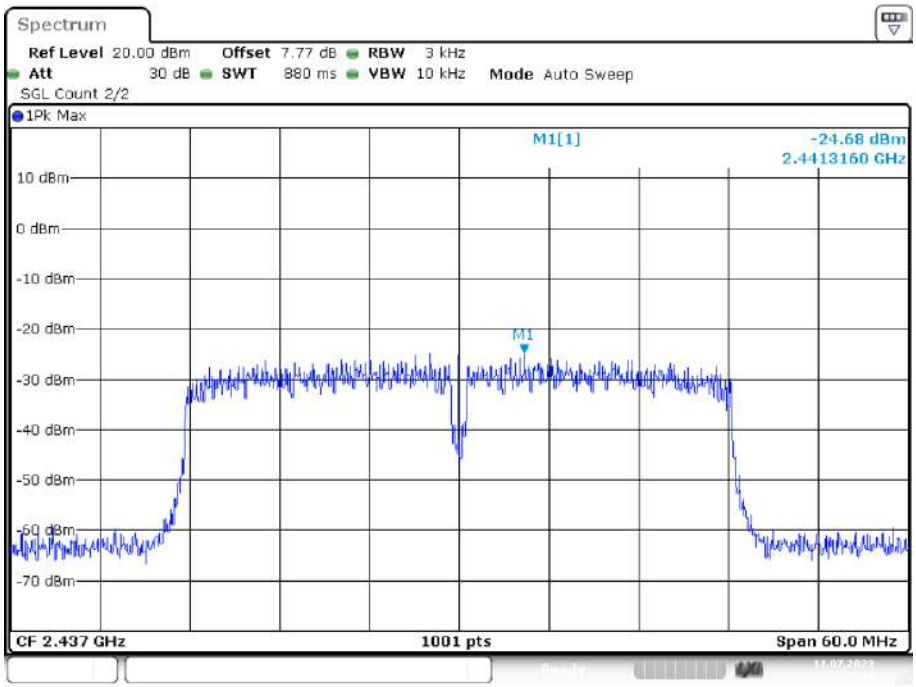
PSD NVNT n40 2437MHz Ant1



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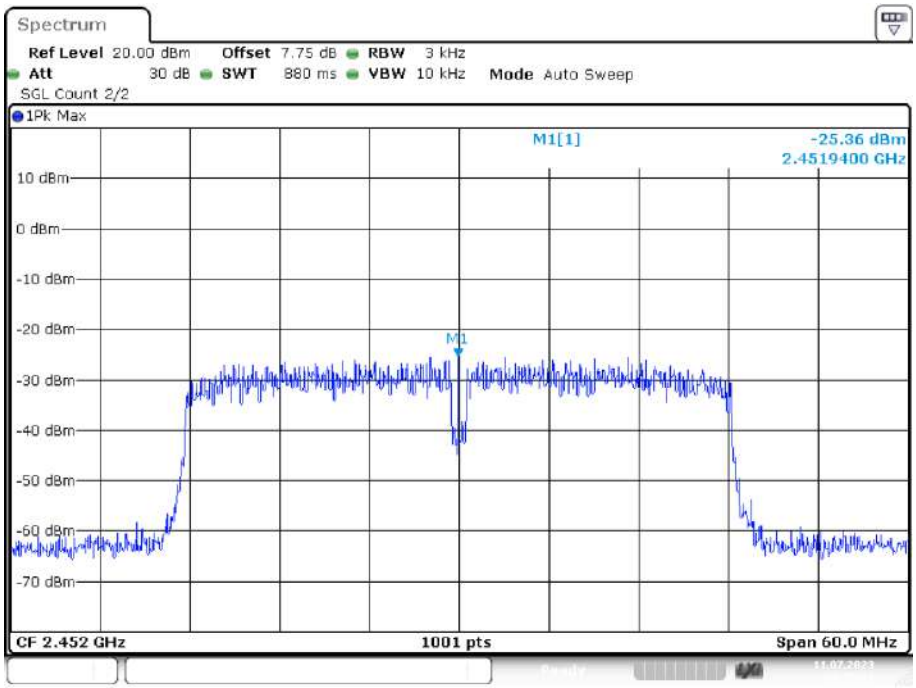
PSD NVNT n40 2452MHz Ant1



Date: 11.JUL.2023 15:30:53

7. Bandwidth

7.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

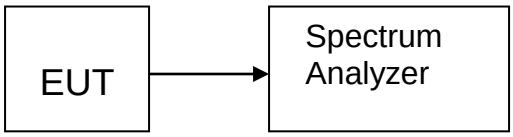
7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

a) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b) The test receiver set RBW = 100kHz, VBW≥3*RBW =300kHz,, Peak Detector, Sweep time set auto, detail see the test plot.

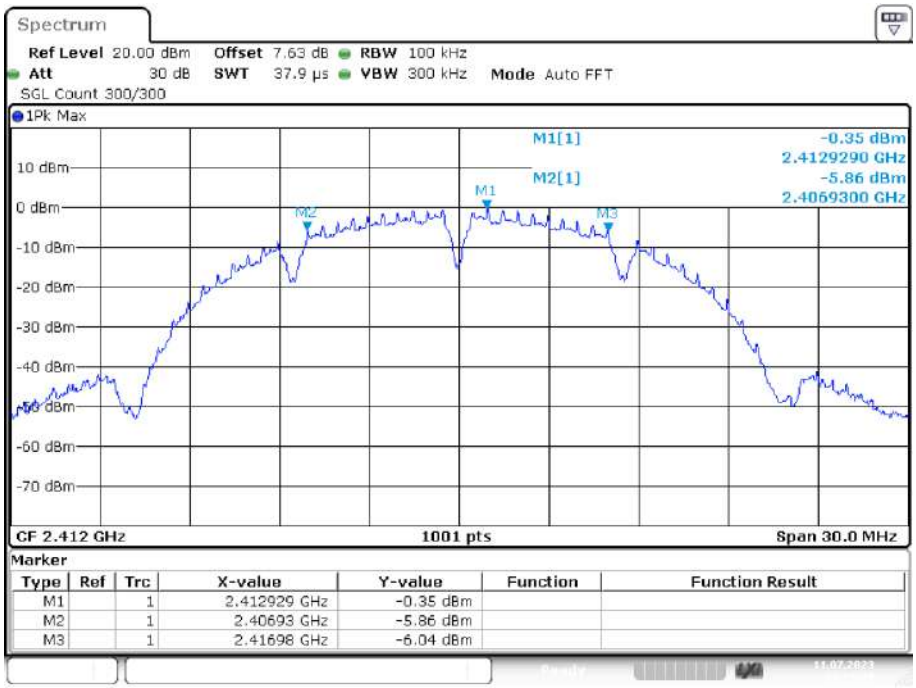
7.3. Test Setup



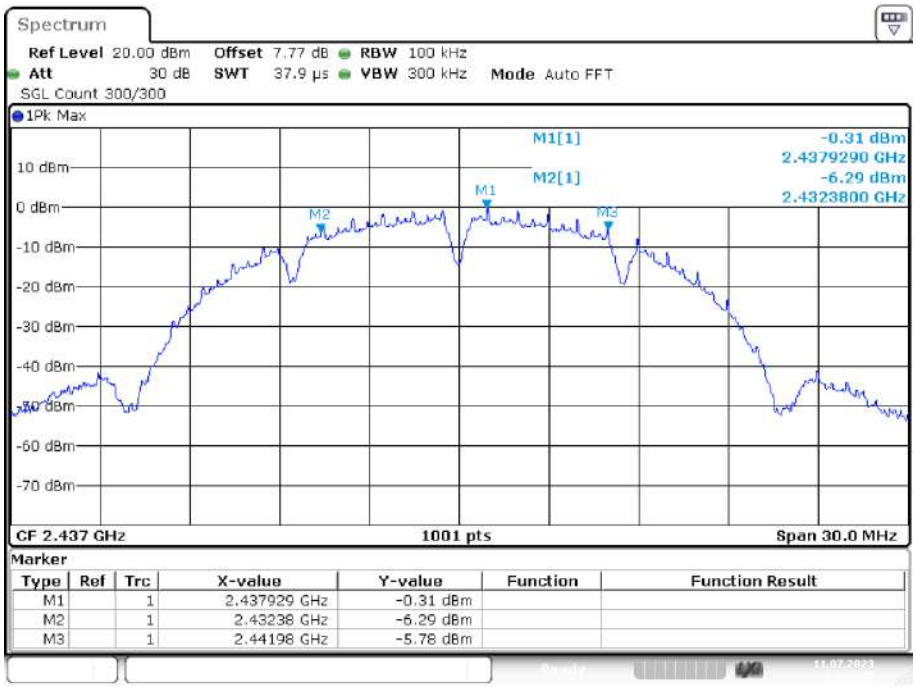
7.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant 1	14.805	10.05	0.5	Pass
NVNT	b	2437	Ant 1	14.805	9.6	0.5	Pass
NVNT	b	2462	Ant 1	14.835	10.08	0.5	Pass
NVNT	g	2412	Ant 1	16.723	16.44	0.5	Pass
NVNT	g	2437	Ant 1	16.843	16.56	0.5	Pass
NVNT	g	2462	Ant 1	16.783	16.32	0.5	Pass
NVNT	n20	2412	Ant 1	17.622	17.73	0.5	Pass
NVNT	n20	2437	Ant 1	17.652	17.31	0.5	Pass
NVNT	n20	2462	Ant 1	17.742	17.61	0.5	Pass
NVNT	n40	2422	Ant 1	35.724	35.58	0.5	Pass
NVNT	n40	2437	Ant 1	35.724	33.9	0.5	Pass
NVNT	n40	2452	Ant 1	35.724	35.1	0.5	Pass

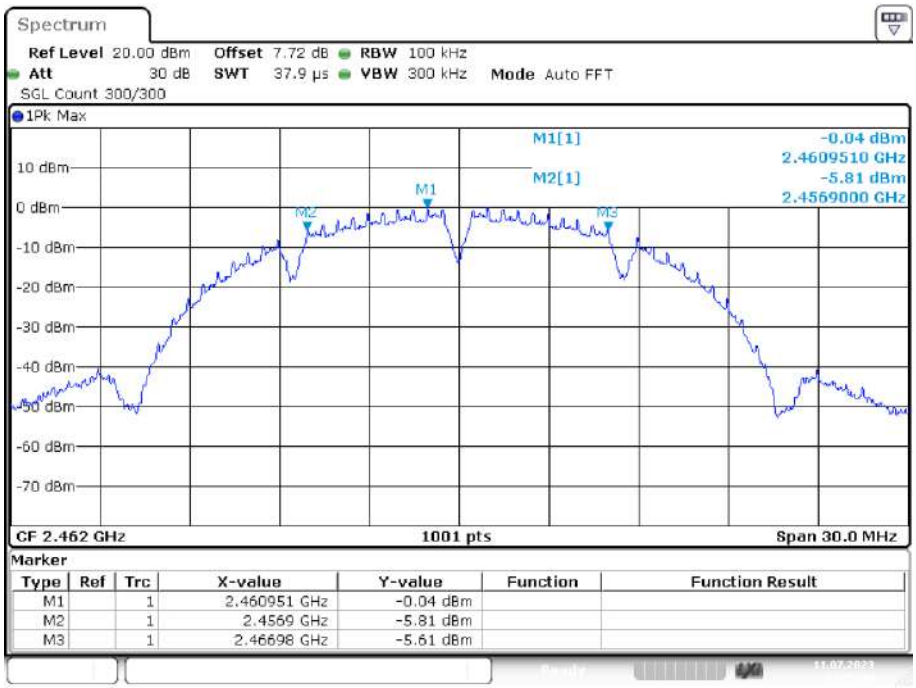
-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant1



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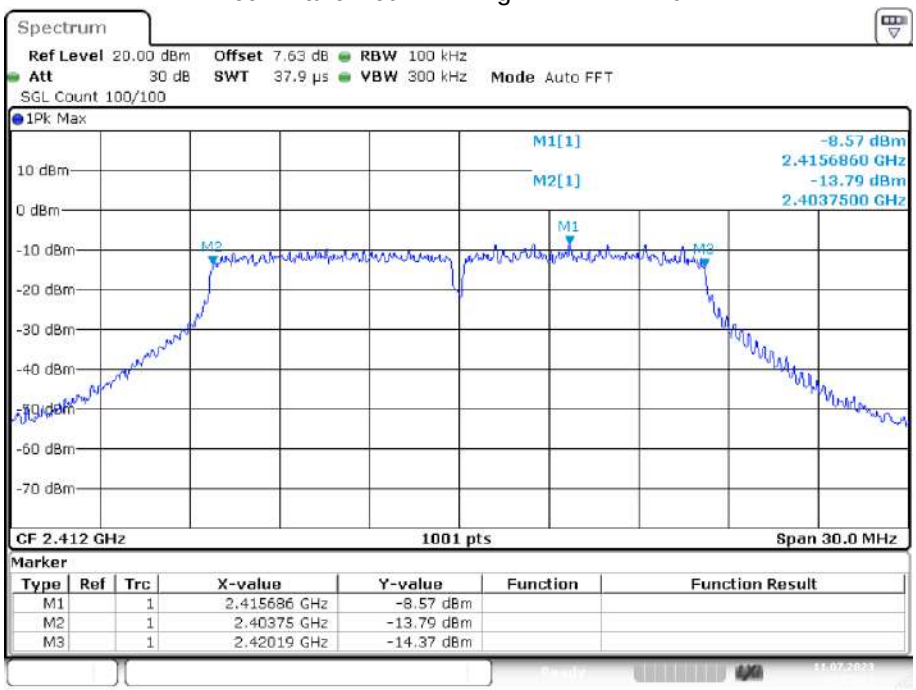
-6dB Bandwidth NVNT g 2412MHz Ant1



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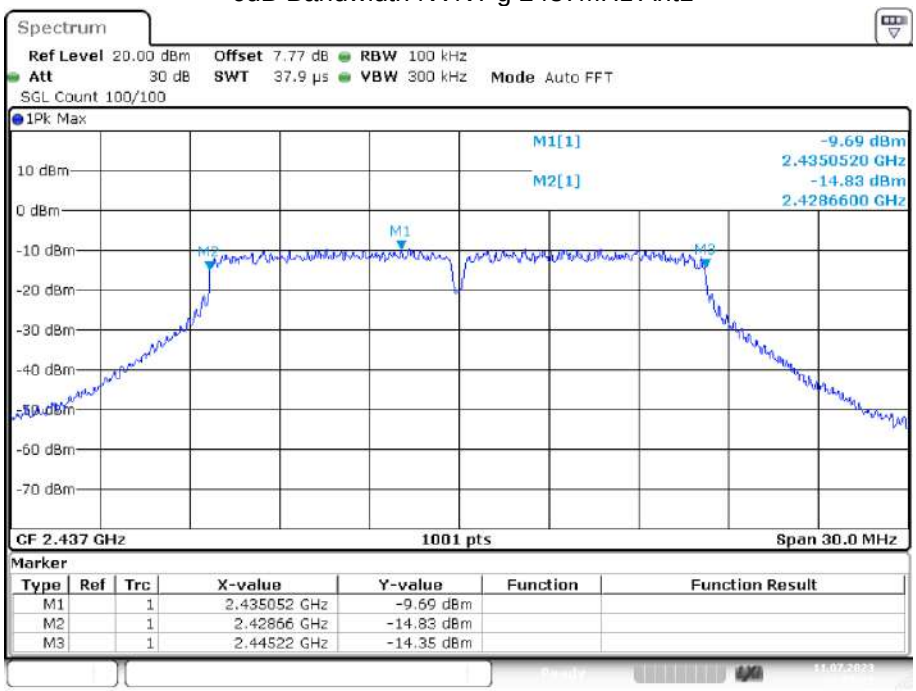
-6dB Bandwidth NVNT g 2437MHz Ant1



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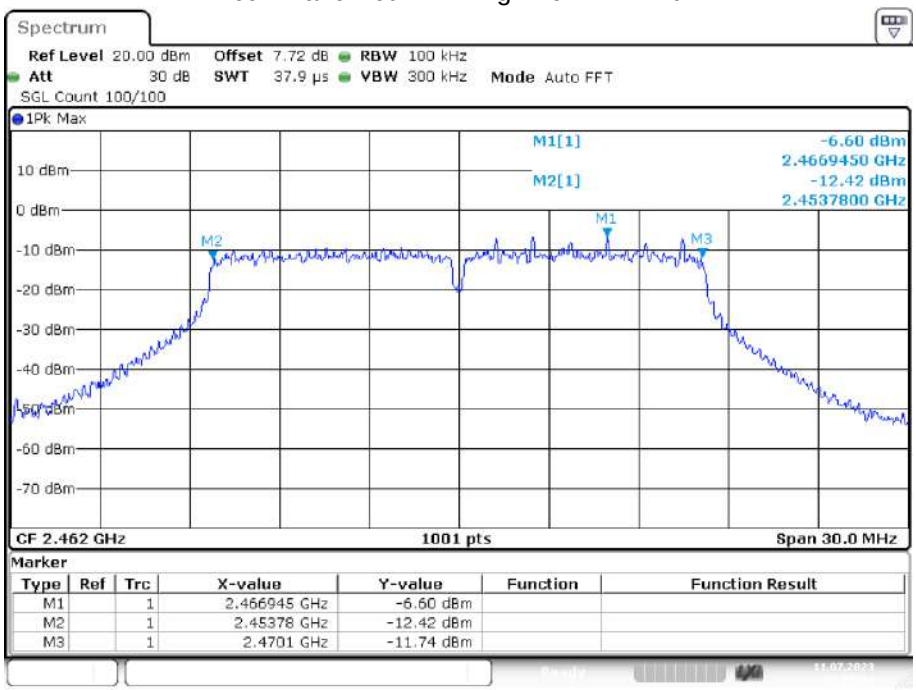
-6dB Bandwidth NVNT g 2462MHz Ant1



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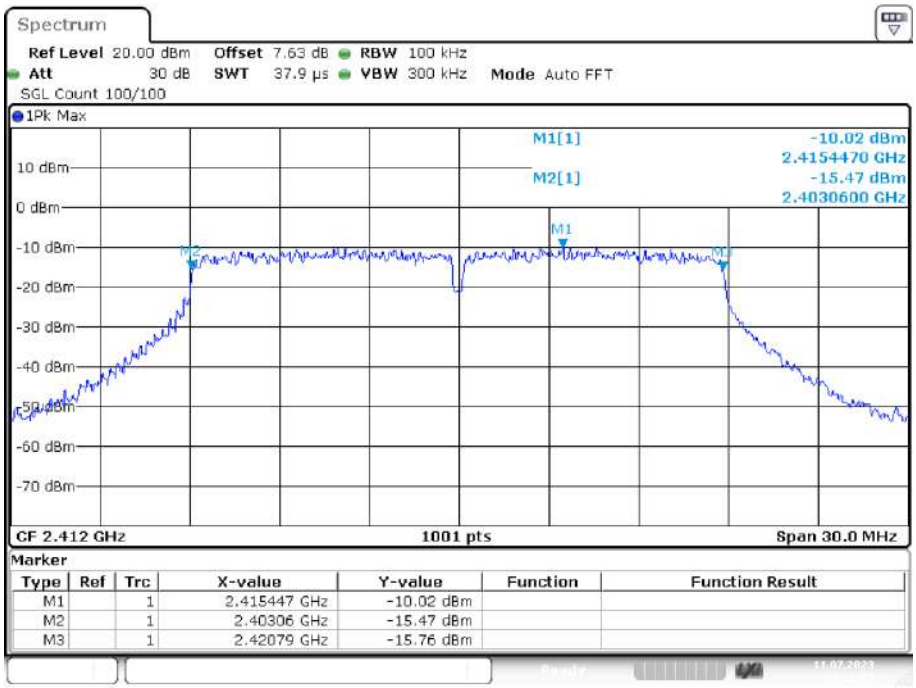
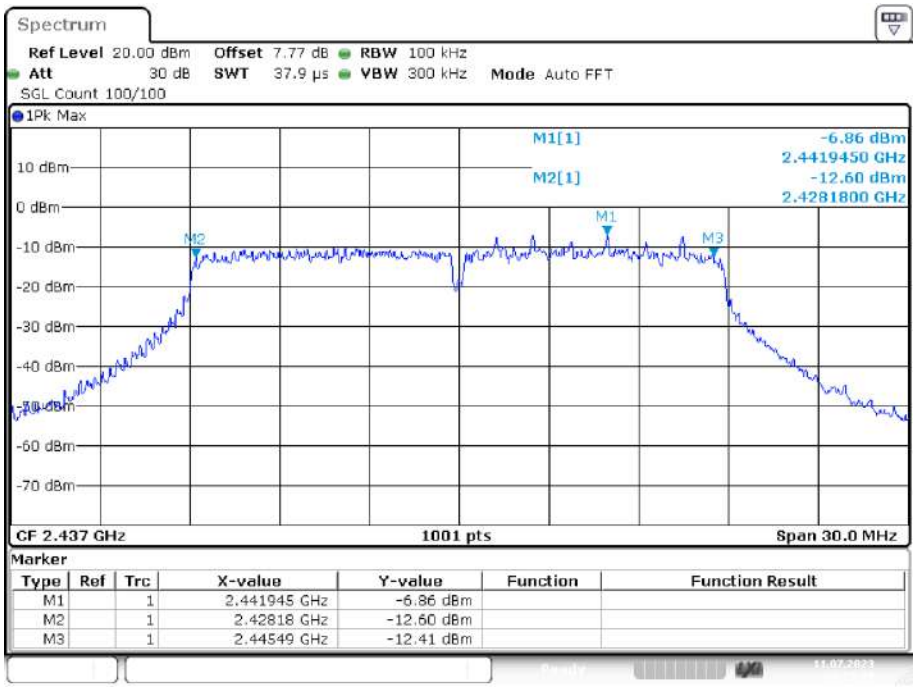
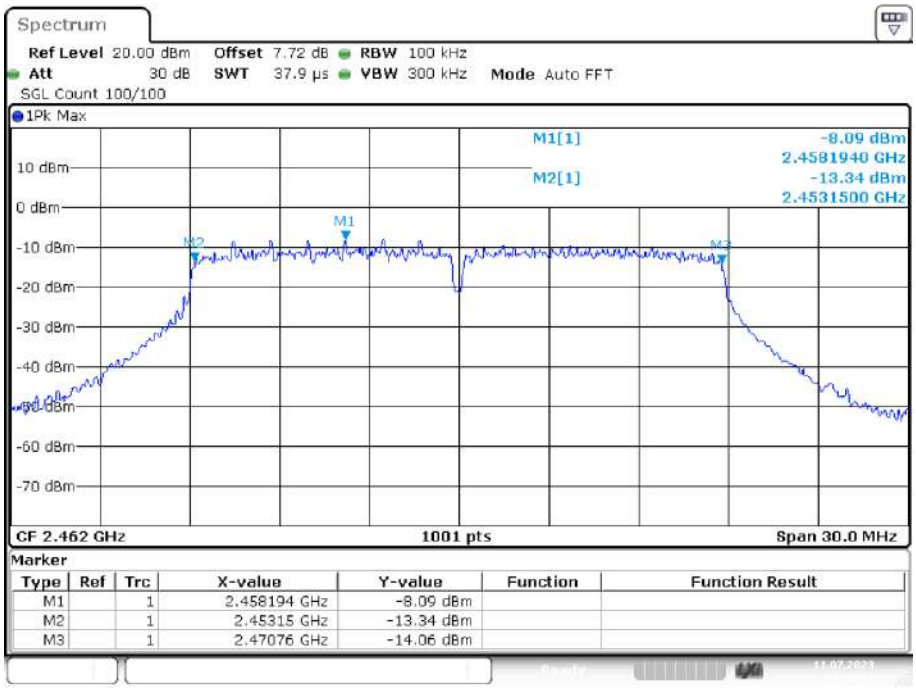
-6dB Bandwidth NVNT n20 2412MHz Ant1



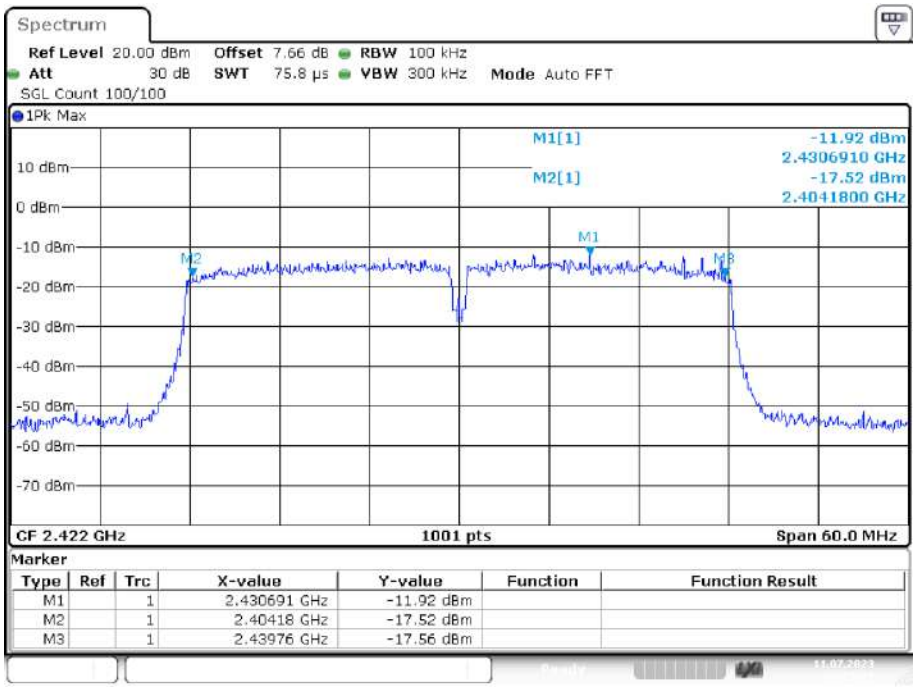
-6dB Bandwidth NVNT n20 2437MHz Ant1



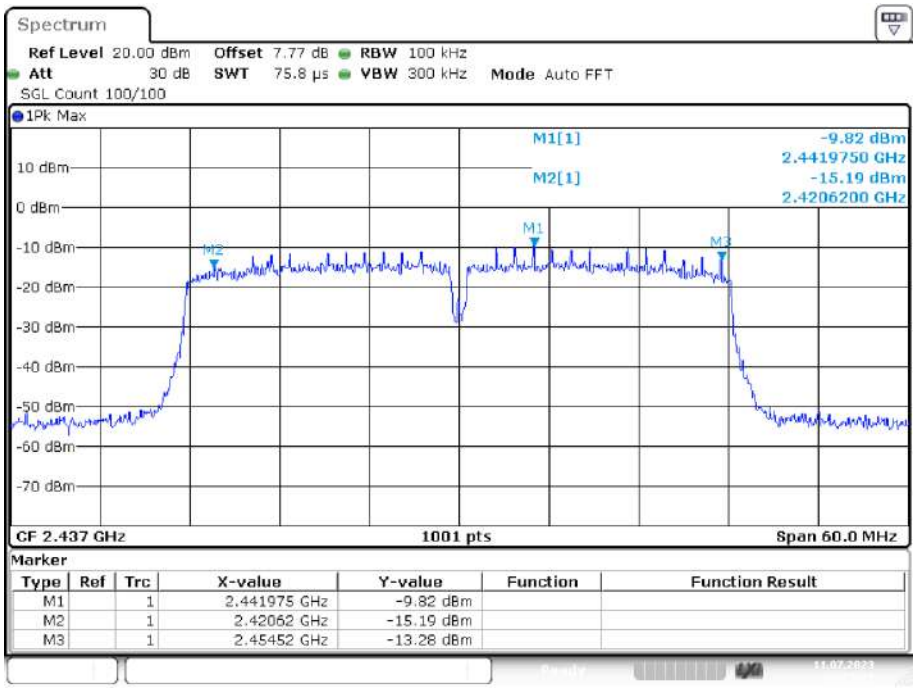
-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1

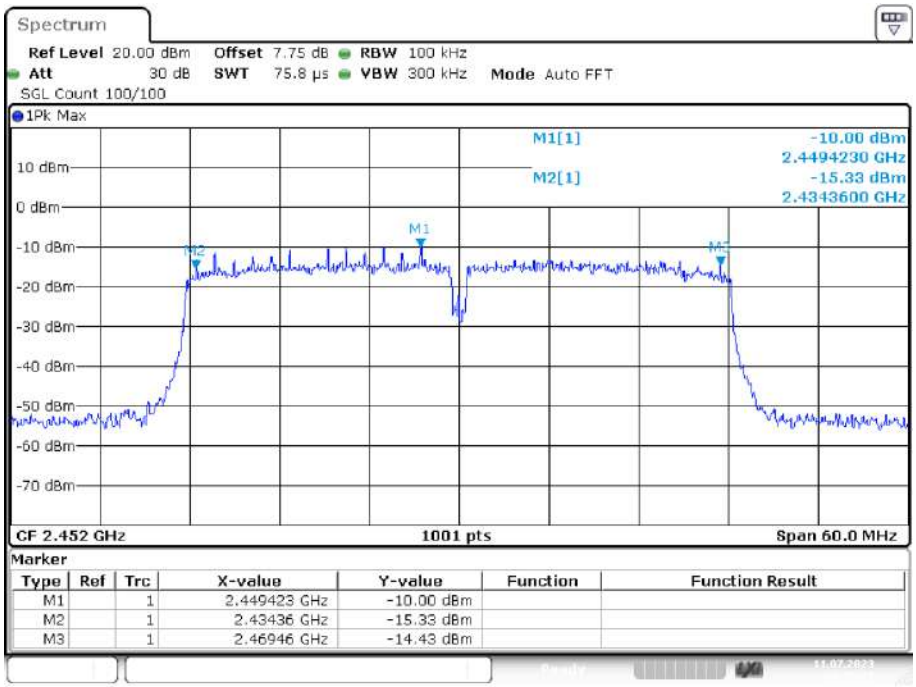


-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 11.JUL.2023 15:27:20

-6dB Bandwidth NVNT n40 2452MHz Ant1



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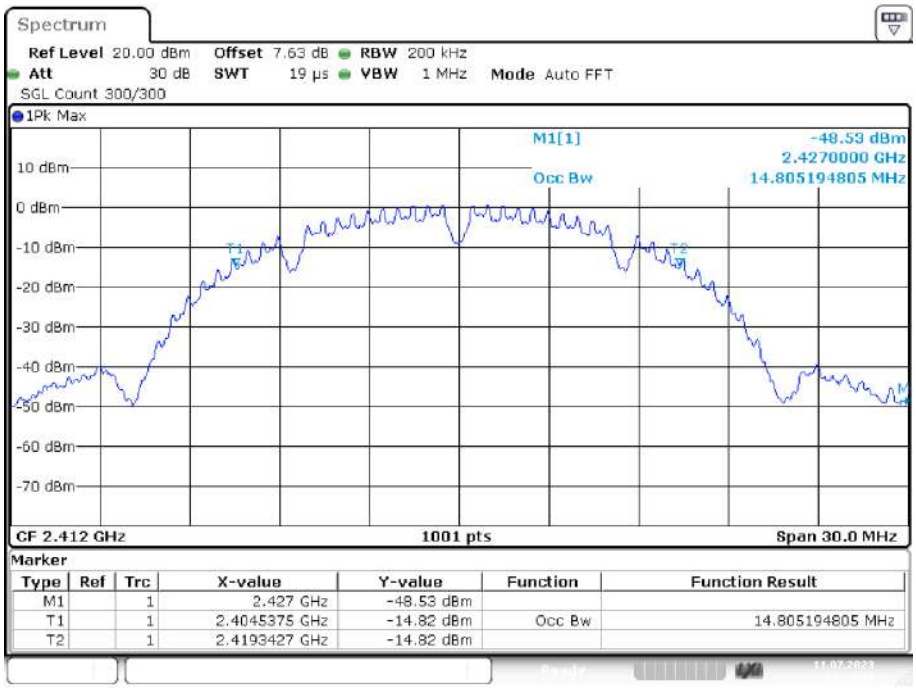
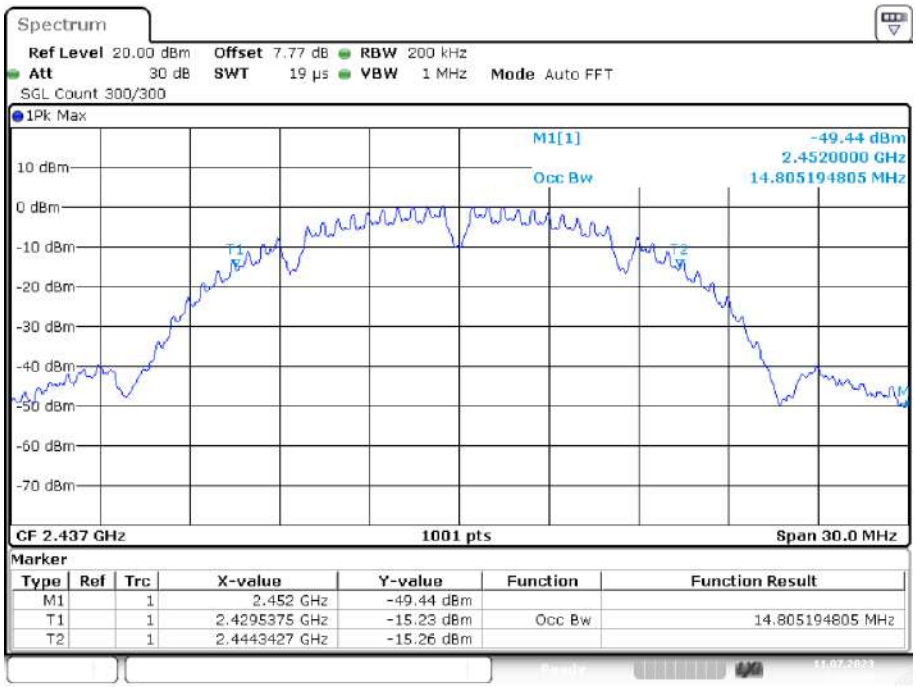
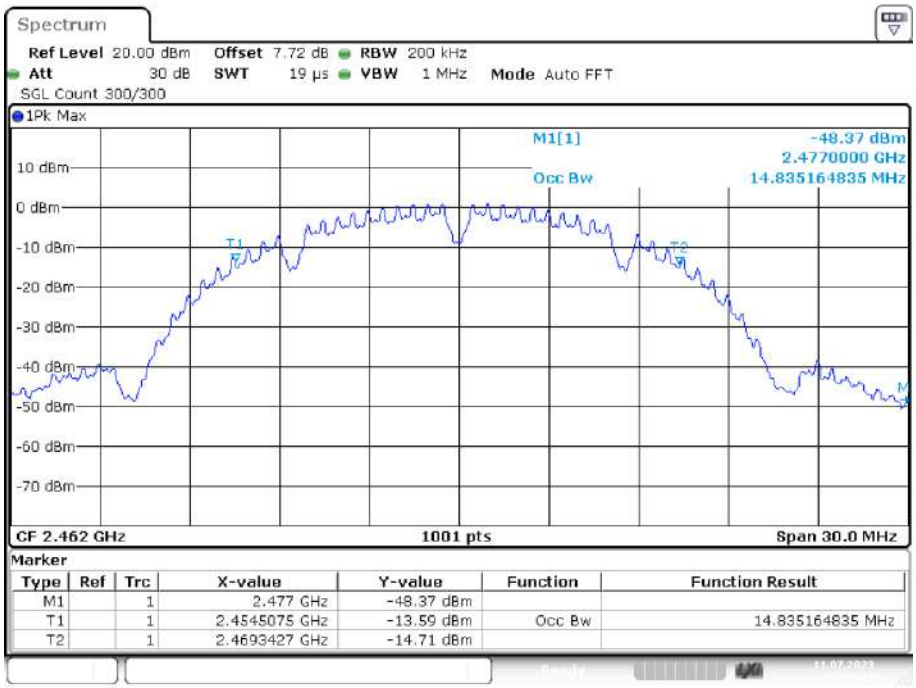
OBW NVNT b 2412MHz Ant1



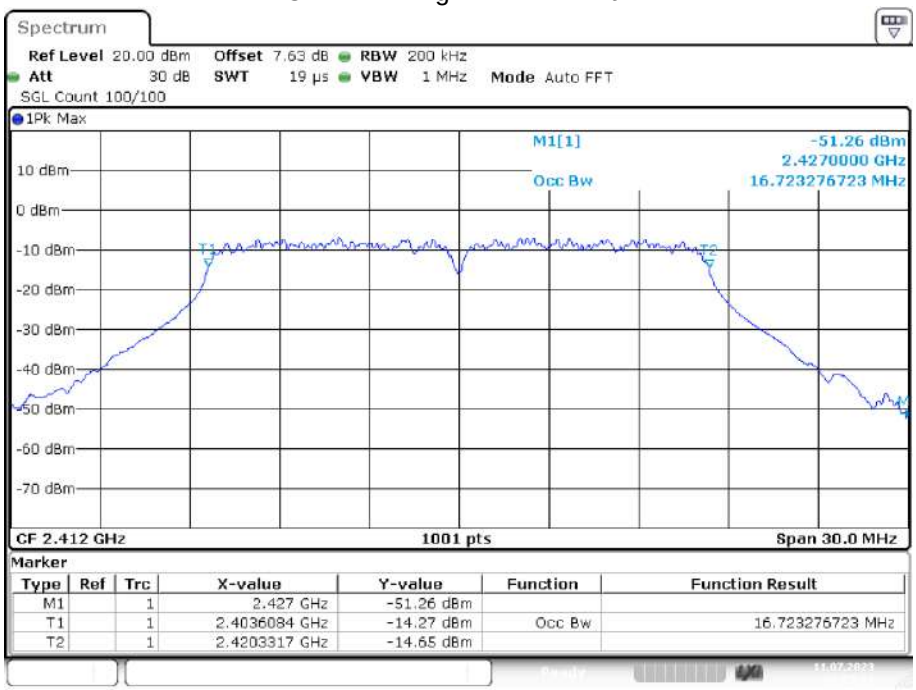
OBW NVNT b 2437MHz Ant1



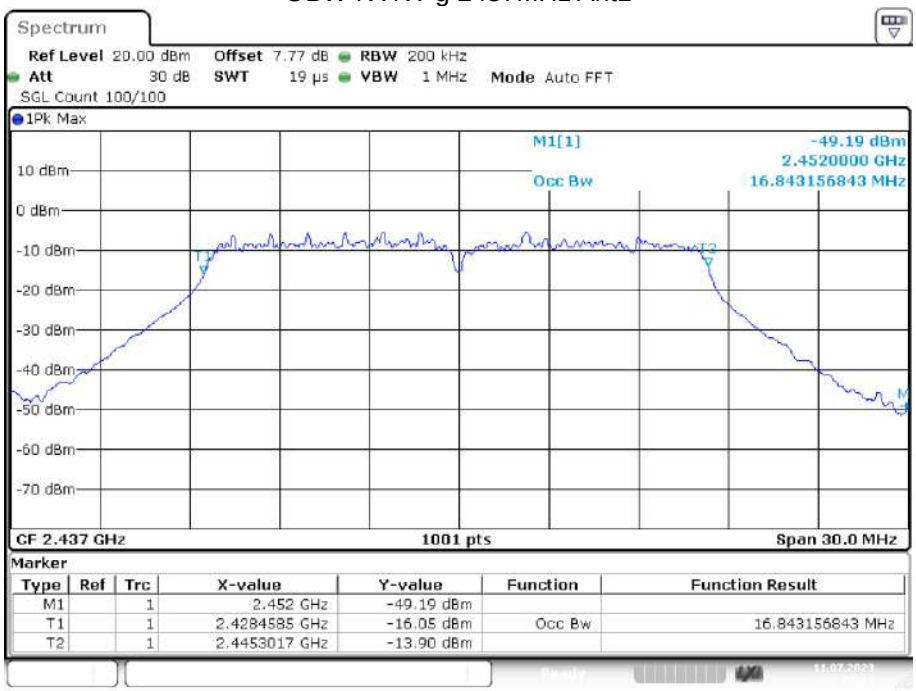
OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1

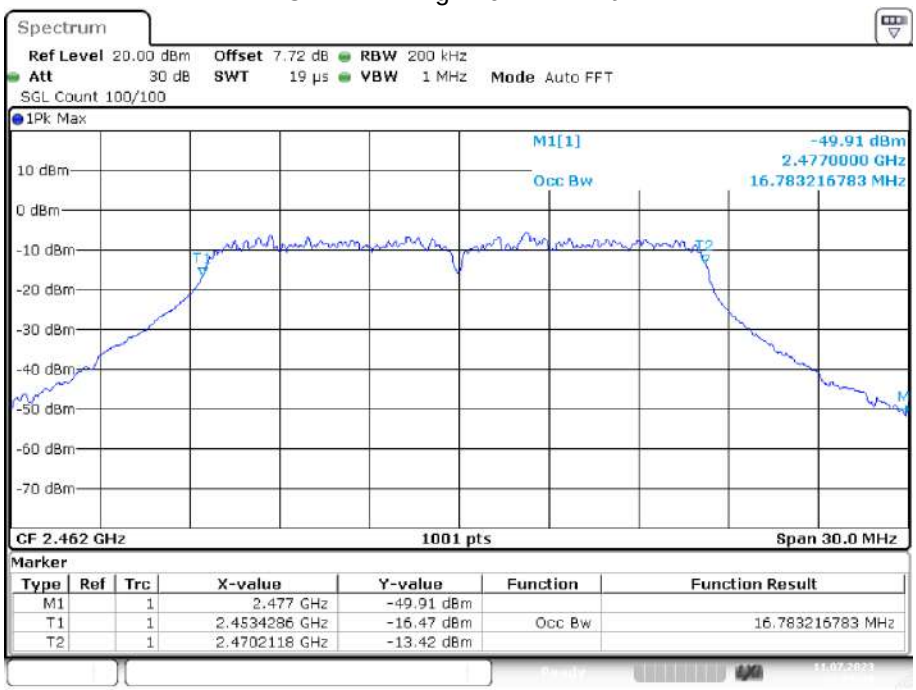


OBW NVNT g 2437MHz Ant1



Date: 11.JUL.2023 15:05:18

OBW NVNT g 2462MHz Ant1



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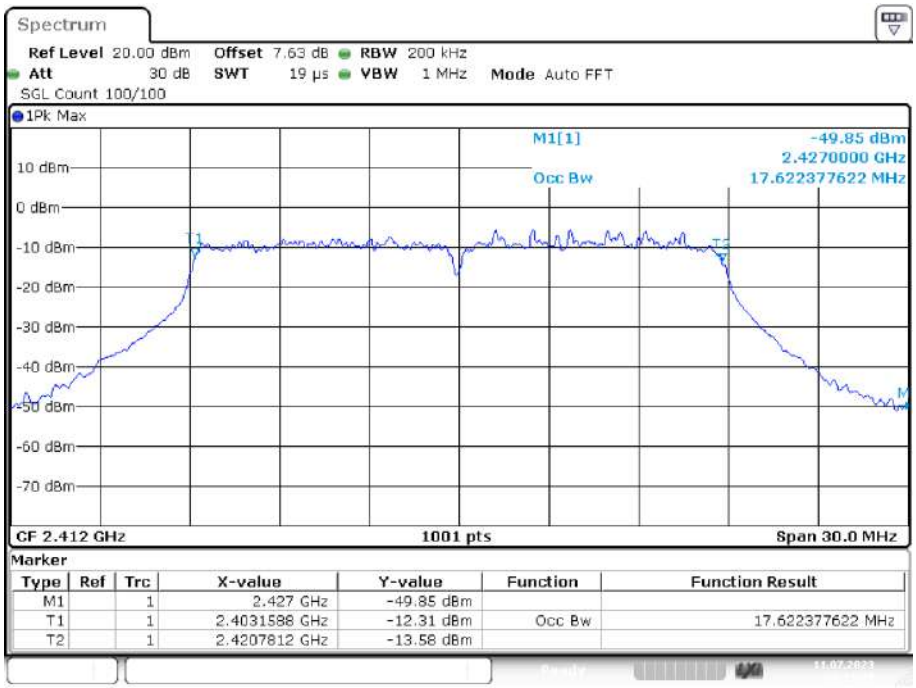
OBW NVNT n20 2412MHz Ant1



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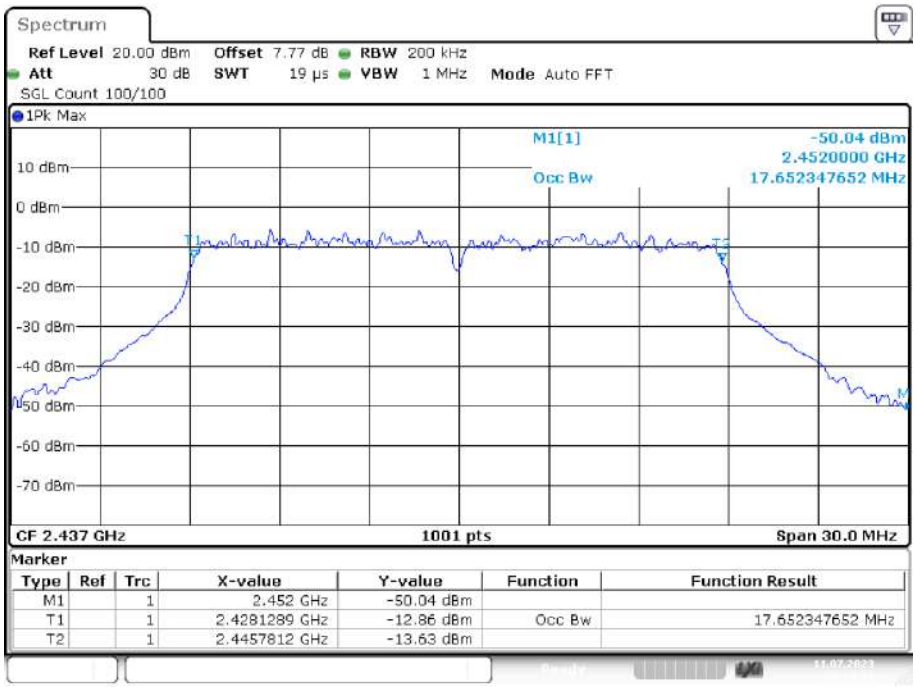
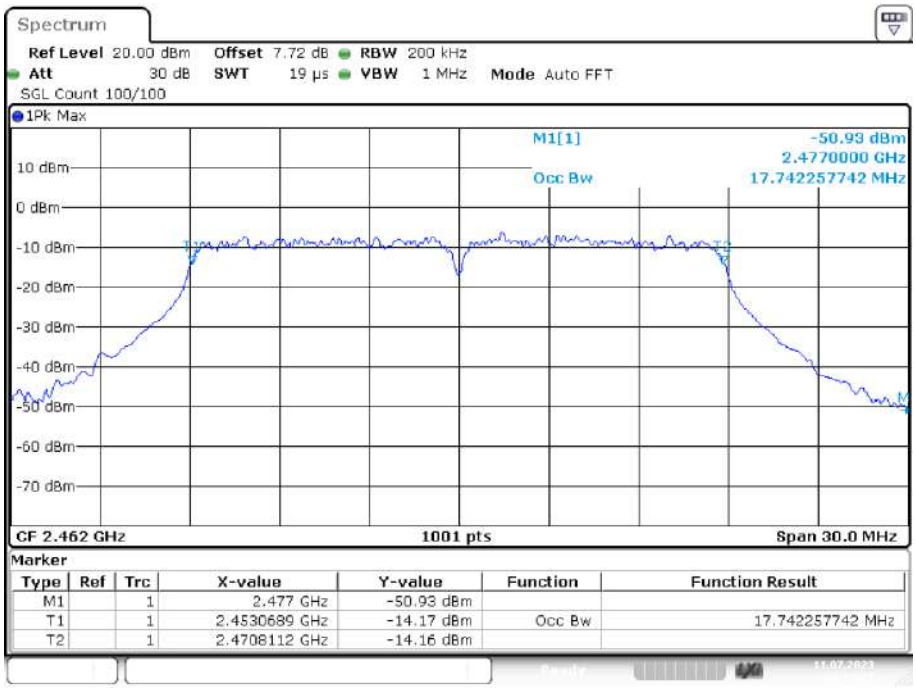
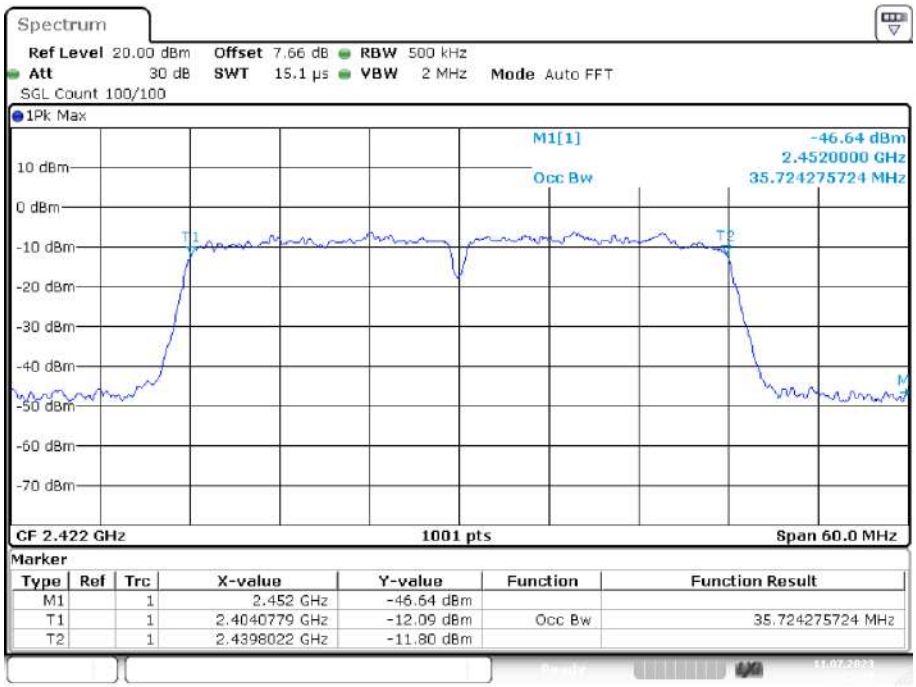


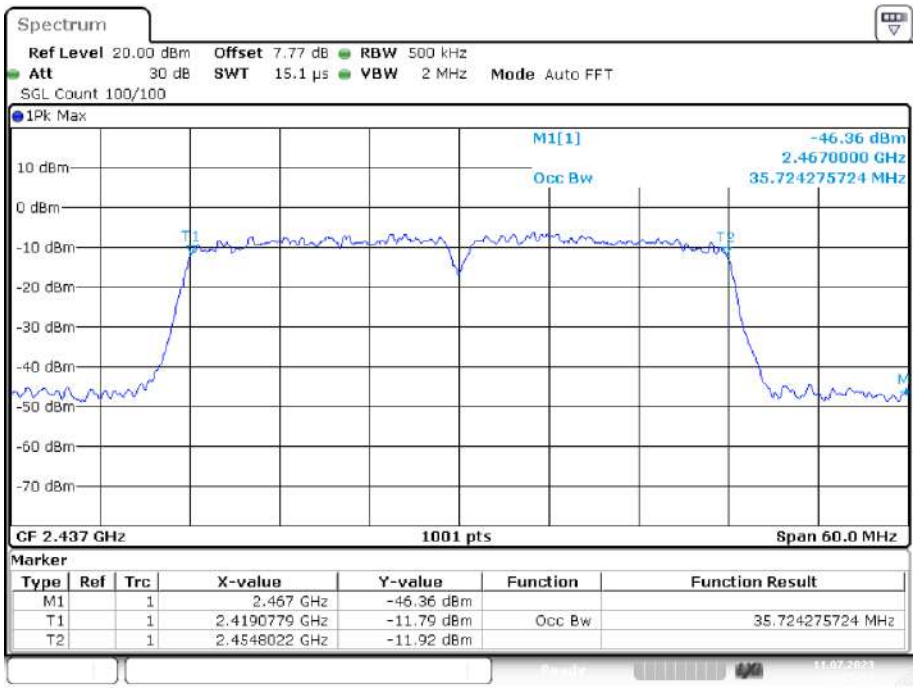
OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1

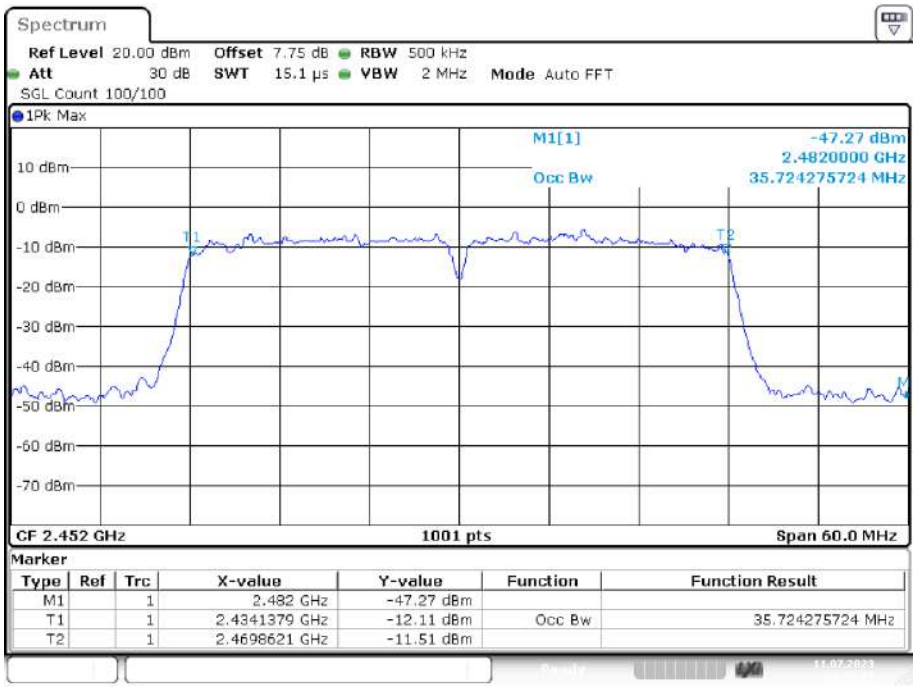


OBW NVNT n40 2437MHz Ant1



Date: 11.JUL.2023 15:26:51

OBW NVNT n40 2452MHz Ant1



Date: 11.JUL.2023 15:30:17

8. Band Edge Check

8.1. Test limits

Please refer RSS-GEN & FCC PART 15: 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits and RSS-GEN limits.

8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz, VBW 3MHz, peak detector for peak value , RBW 1MHz ,VBW 10Hz , RMS detector for AV value.

8.3. Test Setup

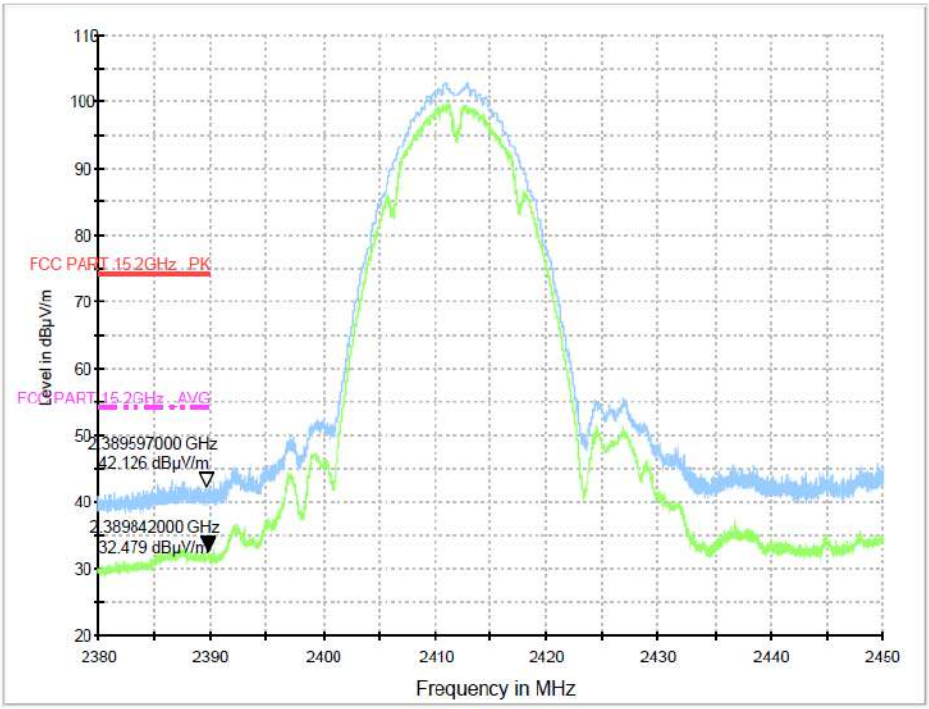
Same as 5.2.2.

8.4. Test Results

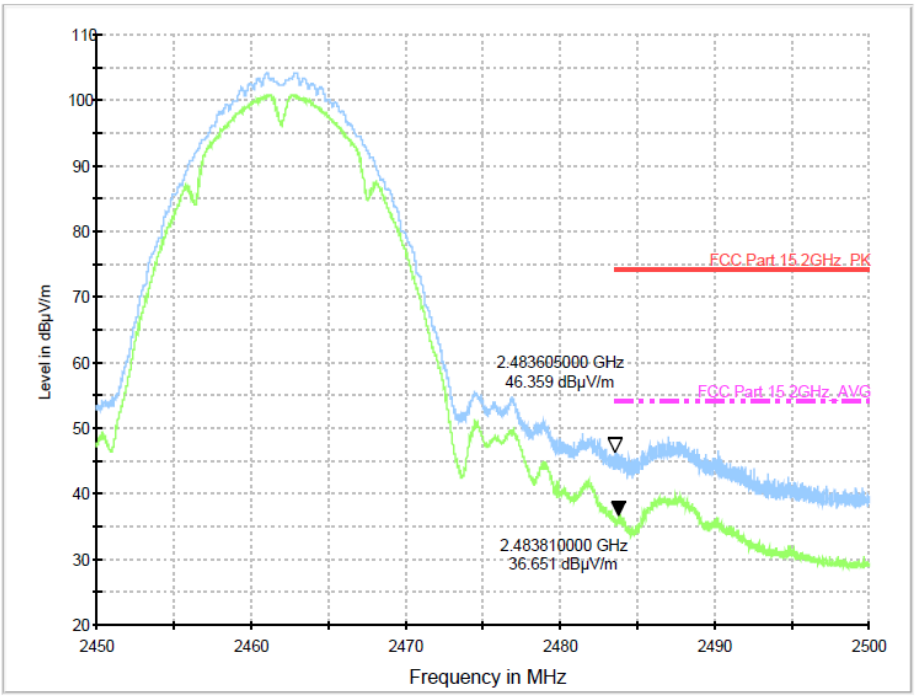
PASS.

Detailed information please see the following page.

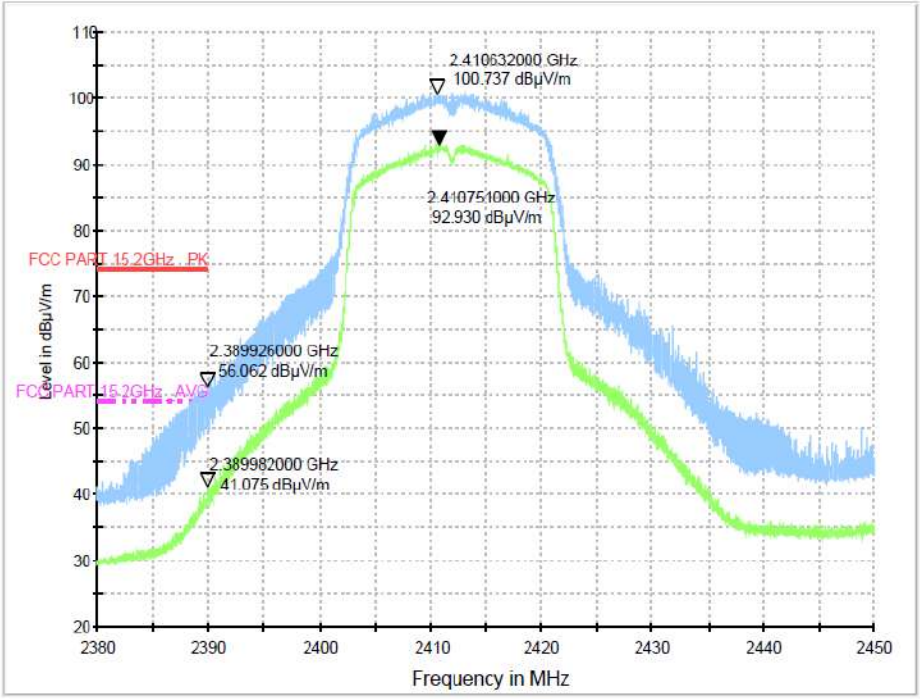
Test Mode: IEEE 802.11b-Low



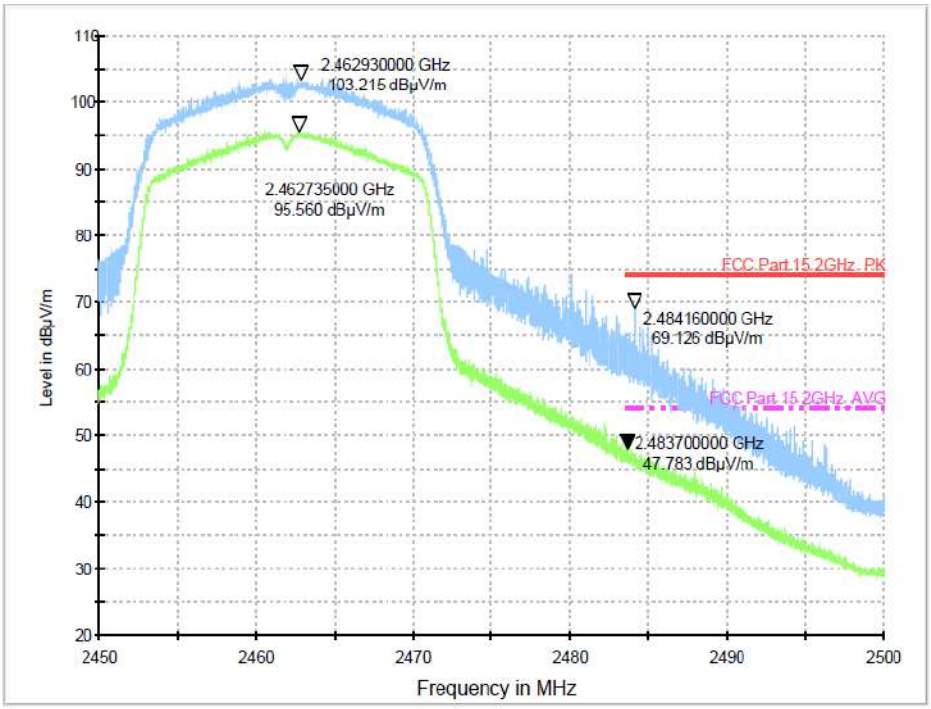
Test Mode: IEEE 802.11b-High



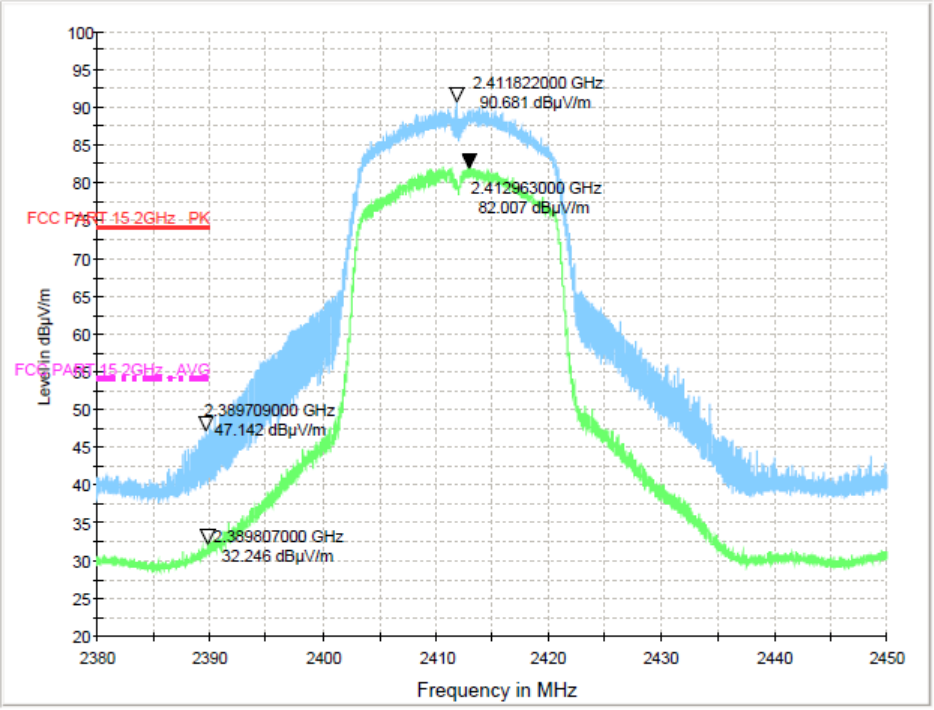
Test Mode: IEEE 802.11g-Low



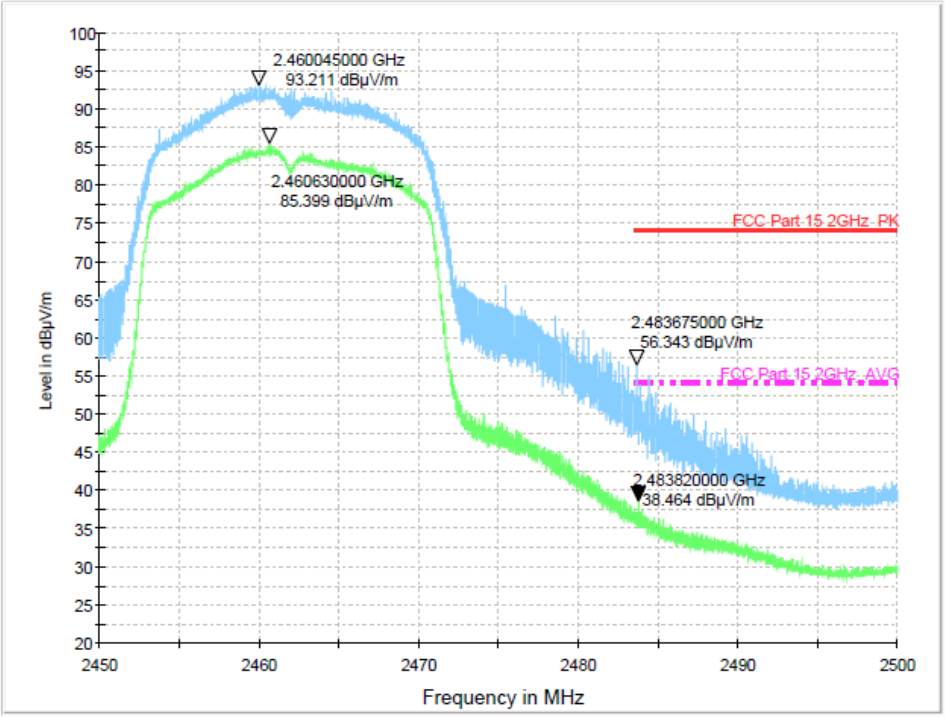
Test Mode: IEEE 802.11g-High



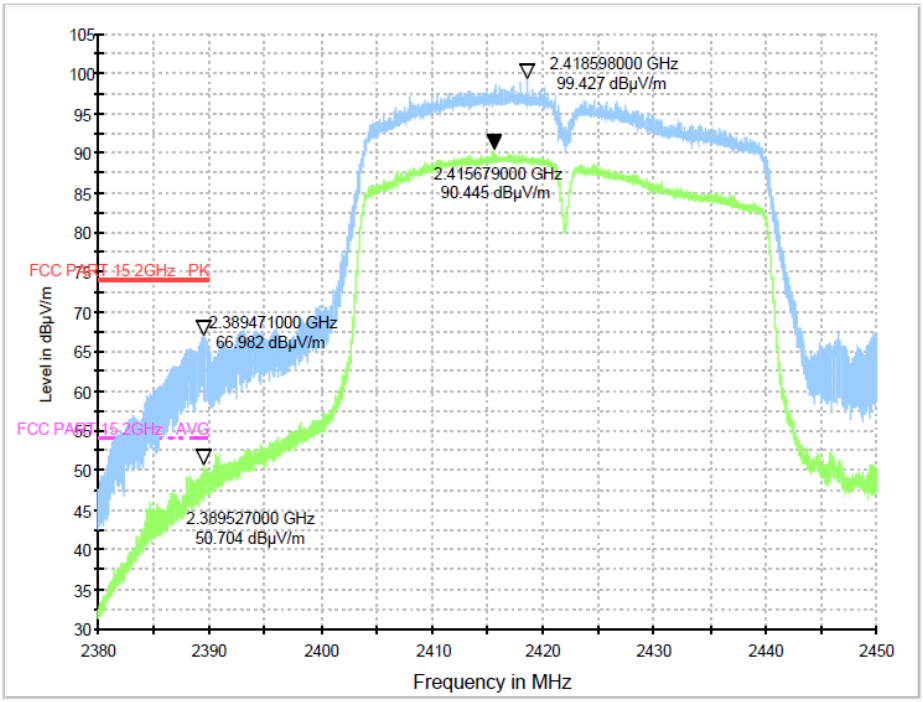
Test Mode: IEEE 802.11n20-Low



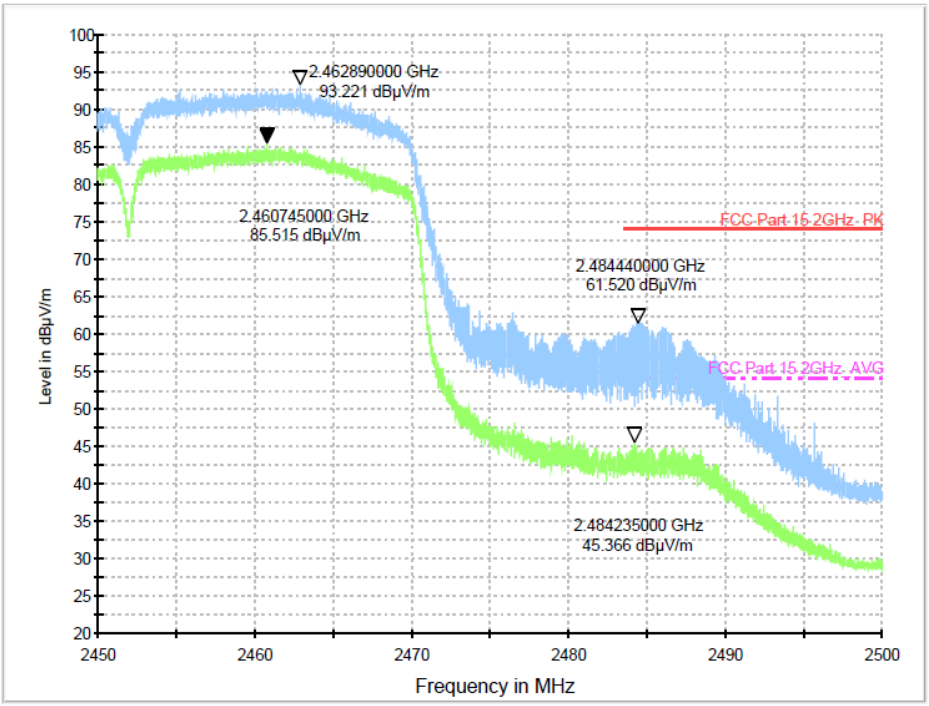
Test Mode: IEEE 802.11n20-High



Test Mode: IEEE 802.11n40-Low

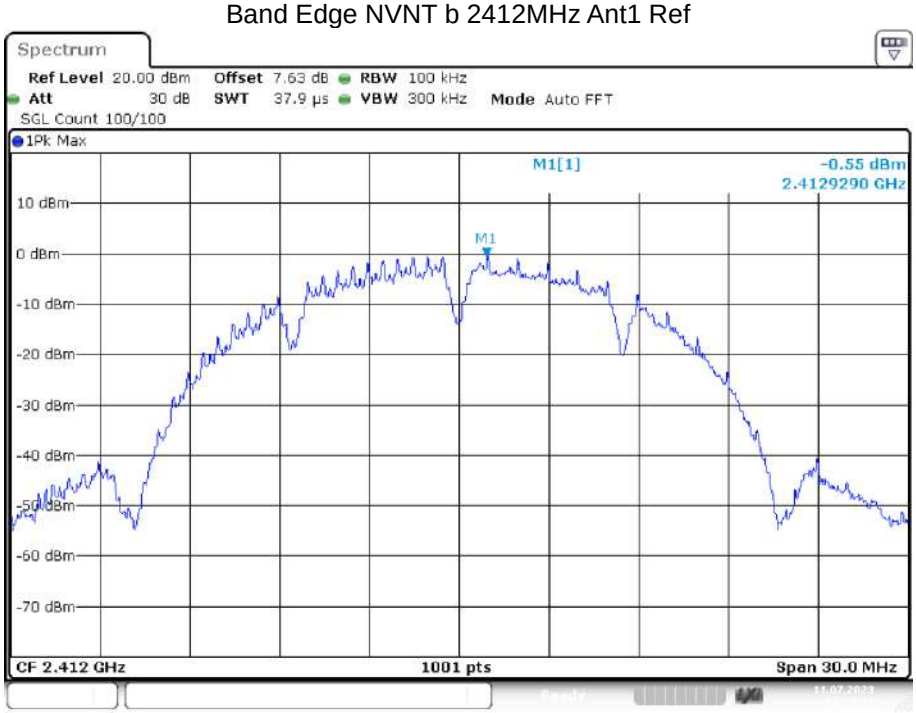


Test Mode: IEEE 802.11n40-High



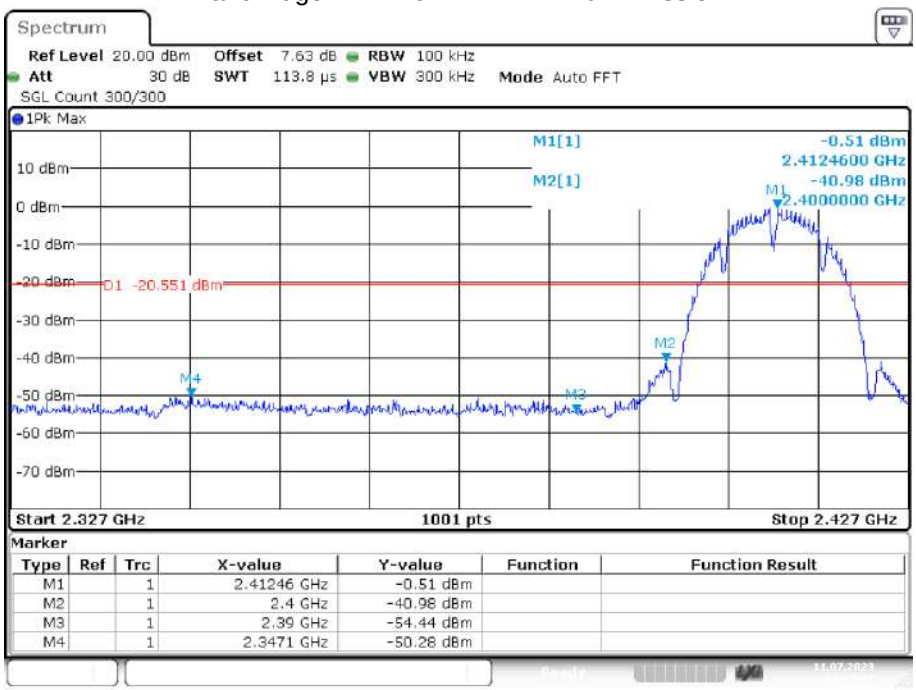
Note: 1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level + Correct Factor; Correct Factor=Antenna Factor + Cable Loss.

Band Edge NVNT b 2412MHz Ant1 Ref



Date: 11.JUL.2023 14:39:15

Band Edge NVNT b 2412MHz Ant1 Emission

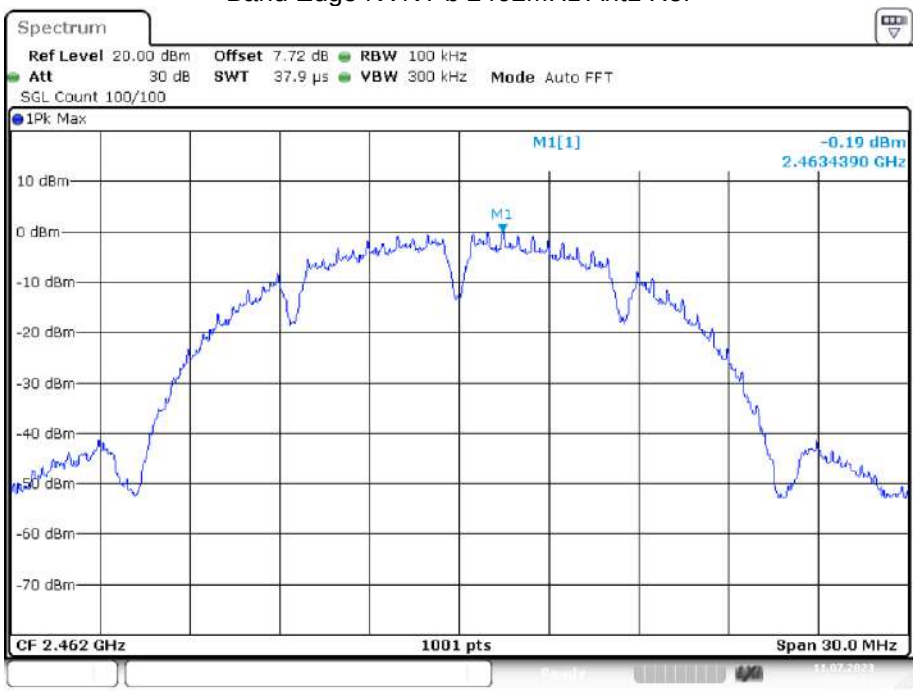


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41246 GHz	-0.51 dBm		
M2		1	2.4 GHz	-40.98 dBm		
M3		1	2.39 GHz	-54.44 dBm		
M4		1	2.3471 GHz	-50.28 dBm		

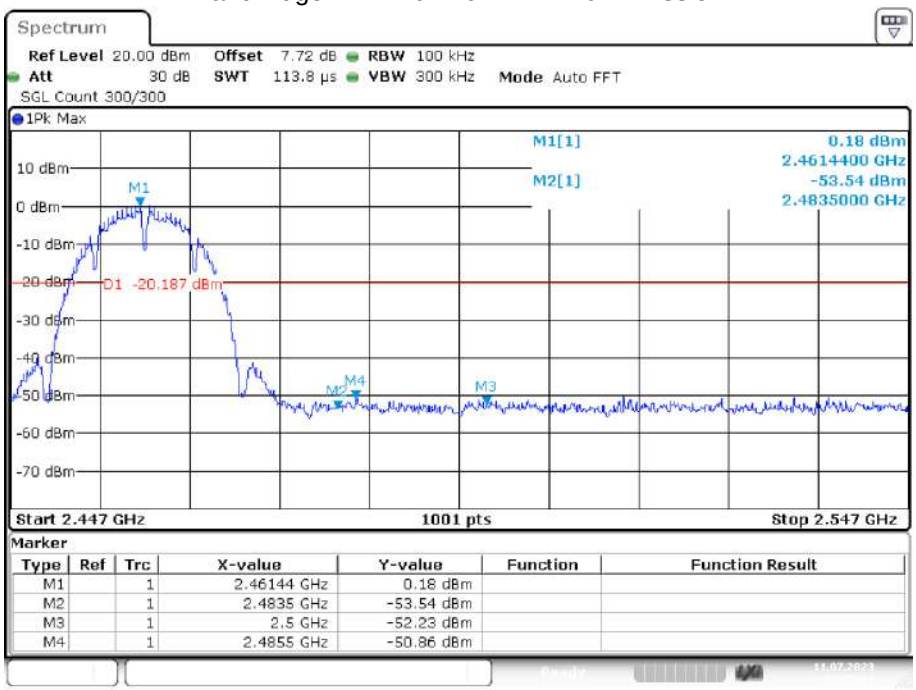
Date: 11.JUL.2023 14:39:27

Band Edge NVNT b 2462MHz Ant1 Ref



Date: 11.JUL.2023 14:47:13

Band Edge NVNT b 2462MHz Ant1 Emission

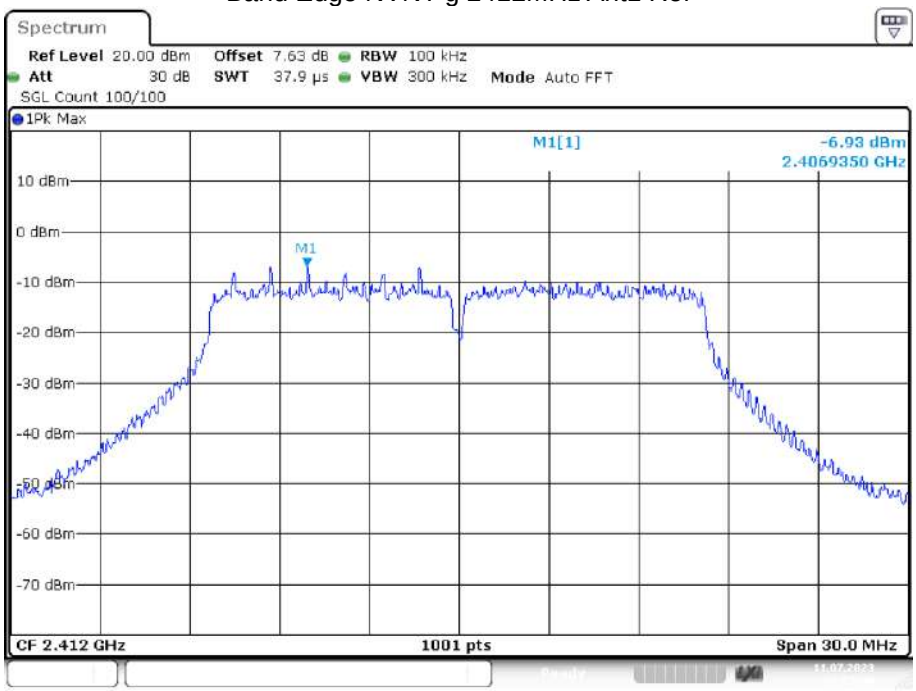


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46144 GHz	0.18 dBm		
M2		1	2.4835 GHz	-53.54 dBm		
M3		1	2.5 GHz	-52.23 dBm		
M4		1	2.4855 GHz	-50.86 dBm		

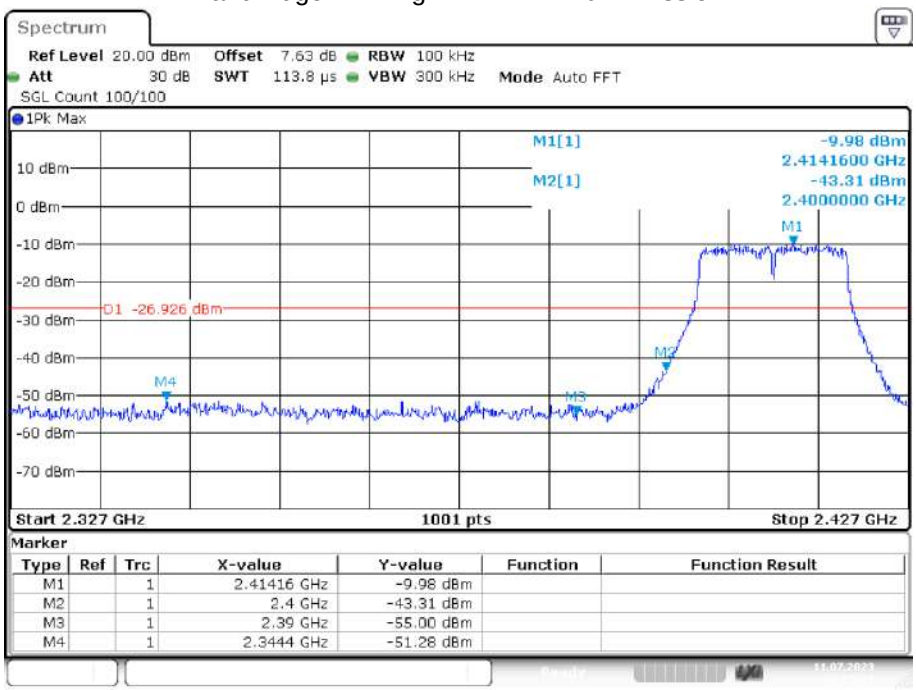
Date: 11.JUL.2023 14:47:24

Band Edge NVNT g 2412MHz Ant1 Ref



Date: 11.JUL.2023 15:02:46

Band Edge NVNT g 2412MHz Ant1 Emission

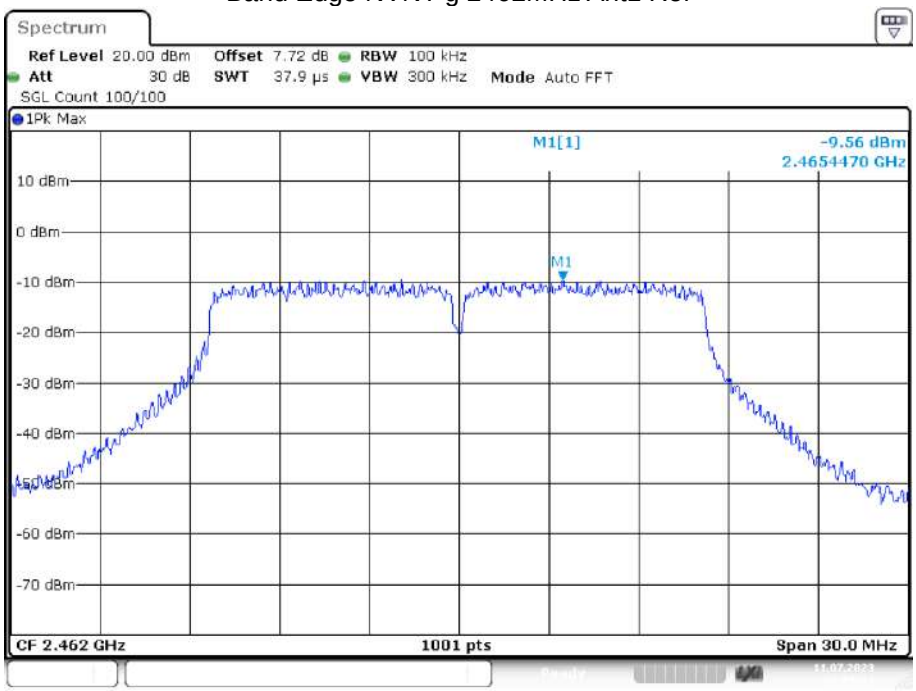


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41416 GHz	-9.98 dBm		
M2		1	2.4 GHz	-43.31 dBm		
M3		1	2.39 GHz	-55.00 dBm		
M4		1	2.3444 GHz	-51.28 dBm		

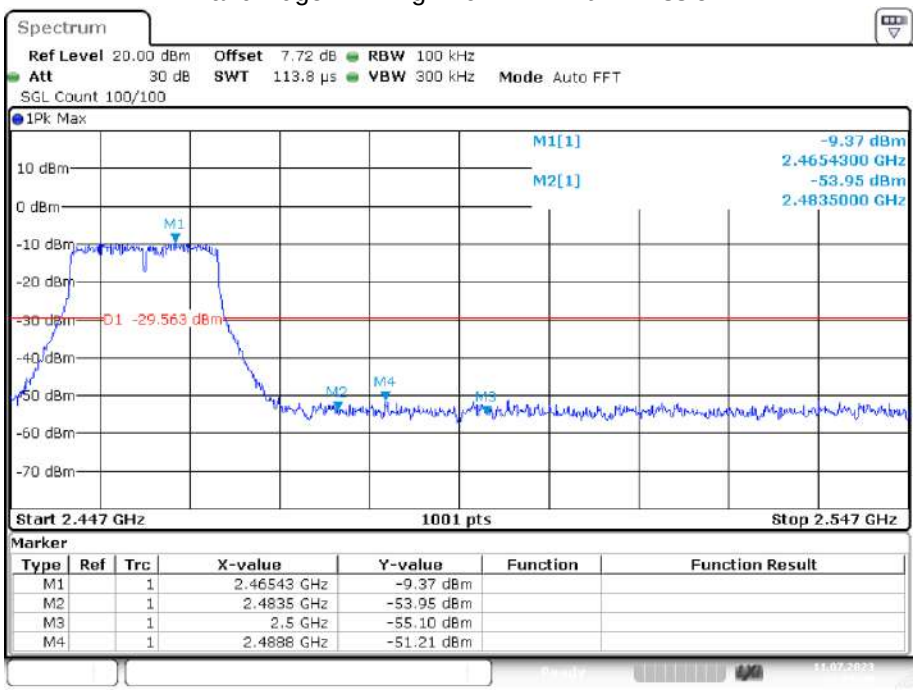
Date: 11.JUL.2023 15:02:52

Band Edge NVNT g 2462MHz Ant1 Ref



Date: 11.JUL.2023 15:09:34

Band Edge NVNT g 2462MHz Ant1 Emission

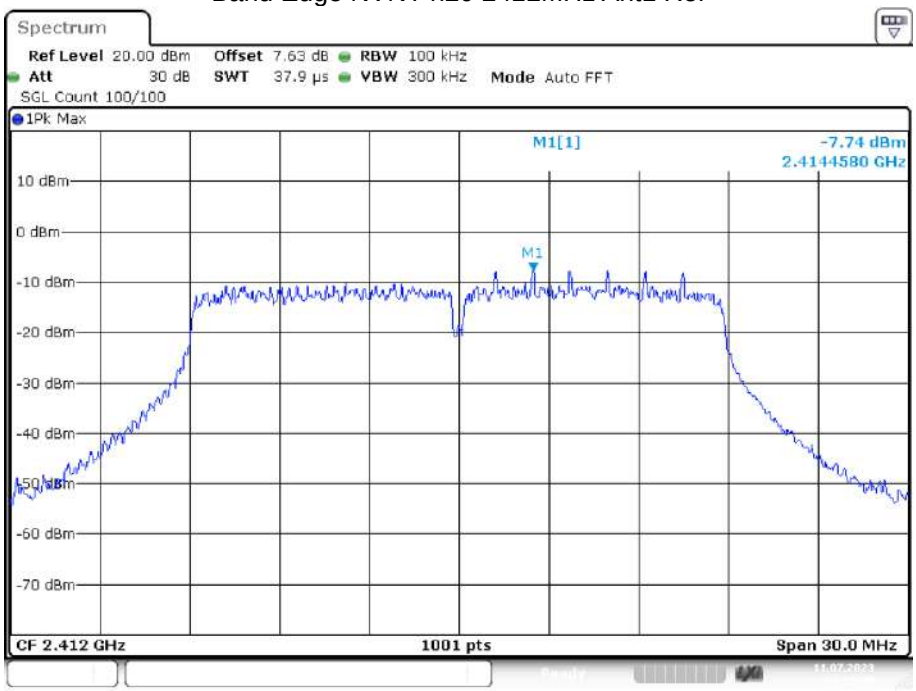


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46543 GHz	-9.37 dBm		
M2		1	2.4835 GHz	-53.95 dBm		
M3		1	2.5 GHz	-55.10 dBm		
M4		1	2.4888 GHz	-51.21 dBm		

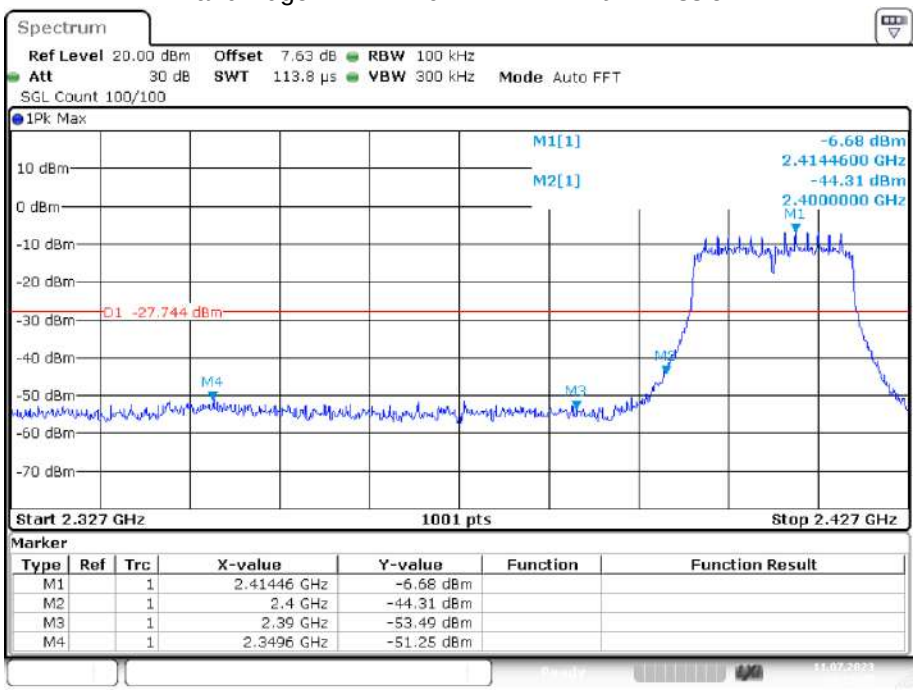
Date: 11.JUL.2023 15:09:40

Band Edge NVNT n20 2412MHz Ant1 Ref



Date: 11.JUL.2023 15:12:39

Band Edge NVNT n20 2412MHz Ant1 Emission

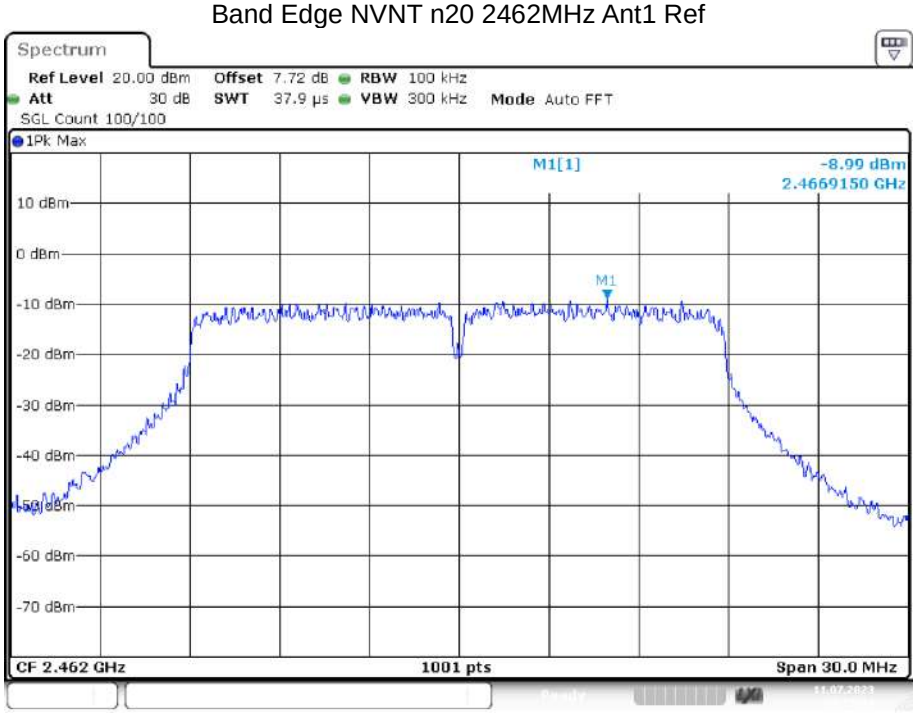


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41446 GHz	-6.68 dBm		
M2		1	2.4 GHz	-44.31 dBm		
M3		1	2.39 GHz	-53.49 dBm		
M4		1	2.3496 GHz	-51.25 dBm		

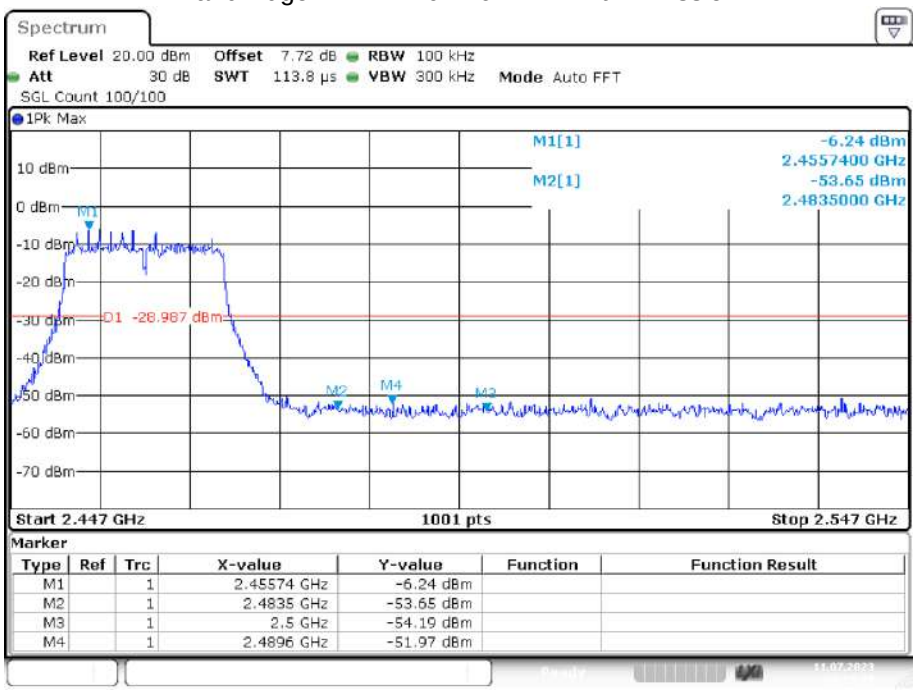
Date: 11.JUL.2023 15:12:45

Band Edge NVNT n20 2462MHz Ant1 Ref



Date: 11.JUL.2023 15:19:04

Band Edge NVNT n20 2462MHz Ant1 Emission

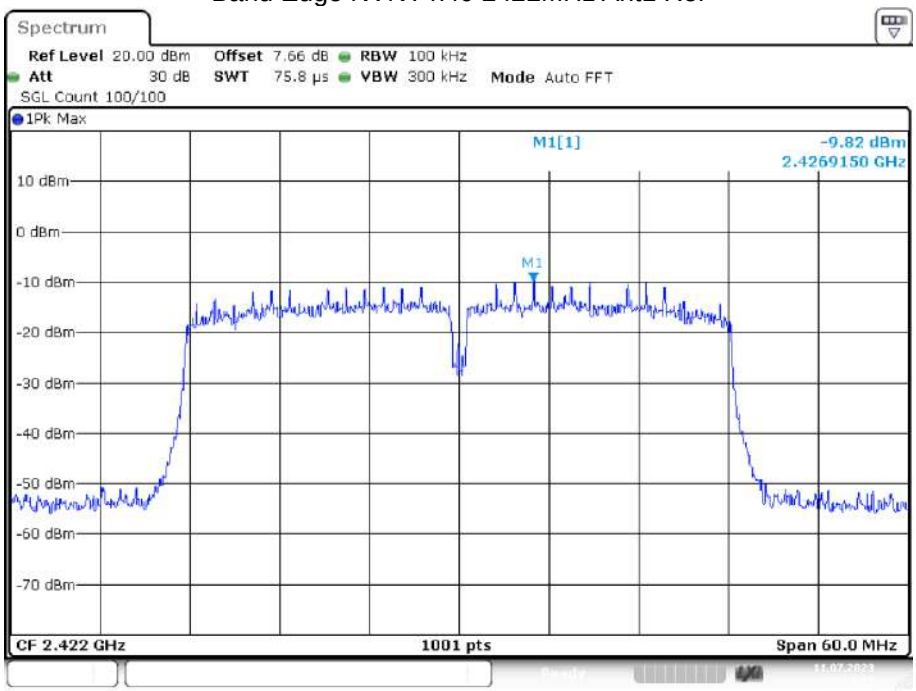


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45574 GHz	-6.24 dBm		
M2		1	2.4835 GHz	-53.65 dBm		
M3		1	2.5 GHz	-54.19 dBm		
M4		1	2.4896 GHz	-51.97 dBm		

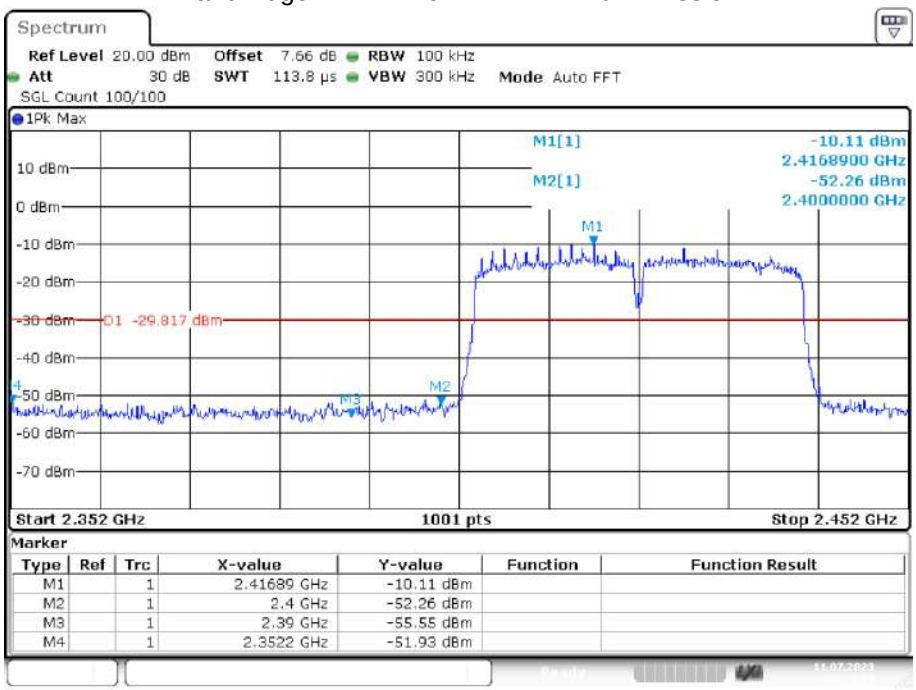
Date: 11.JUL.2023 15:19:10

Band Edge NVNT n40 2422MHz Ant1 Ref



Date: 11.JUL.2023 15:24:03

Band Edge NVNT n40 2422MHz Ant1 Emission

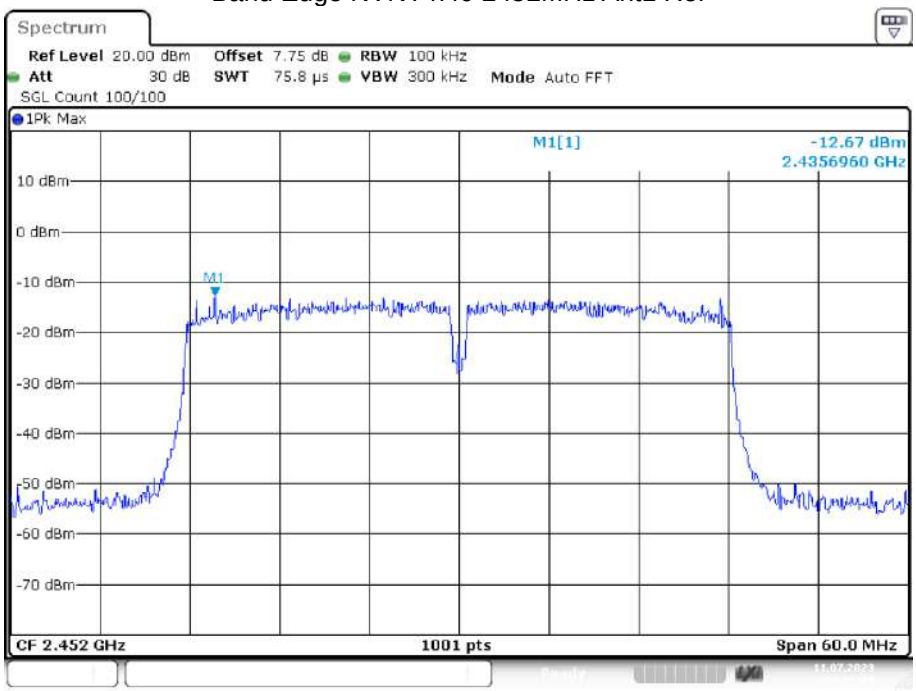


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41689 GHz	-10.11 dBm		
M2		1	2.4 GHz	-52.26 dBm		
M3		1	2.39 GHz	-55.55 dBm		
M4		1	2.3522 GHz	-51.93 dBm		

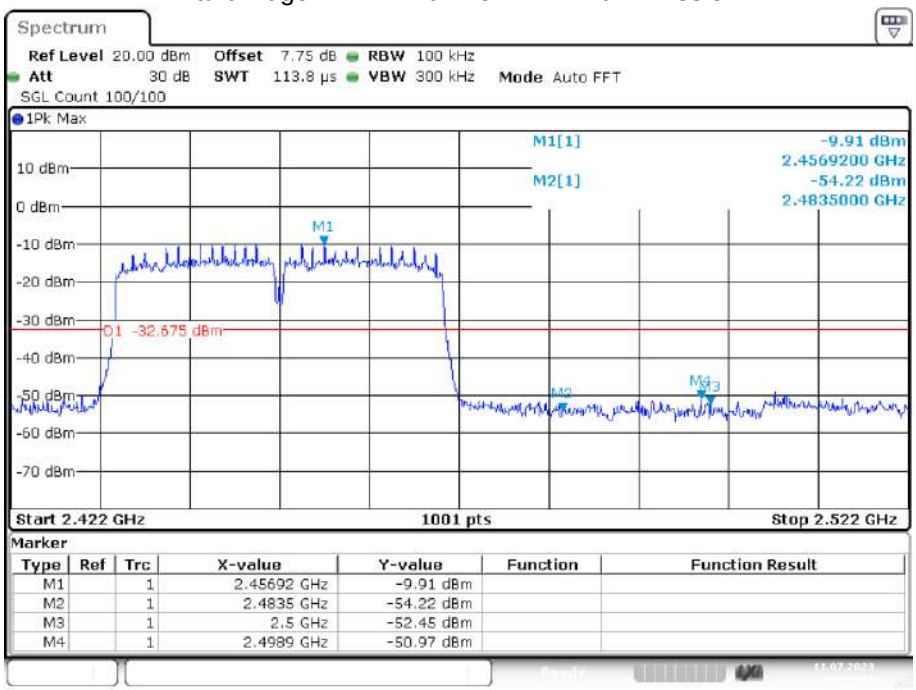
Date: 11.JUL.2023 15:24:09

Band Edge NVNT n40 2452MHz Ant1 Ref



Date: 11.JUL.2023 15:31:09

Band Edge NVNT n40 2452MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45692 GHz	-9.91 dBm		
M2		1	2.4835 GHz	-54.22 dBm		
M3		1	2.5 GHz	-52.45 dBm		
M4		1	2.4989 GHz	-50.97 dBm		

Date: 11.JUL.2023 15:31:14

9. Antenna Requirement

9.1. Standard Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.2. Antenna Connected Construction

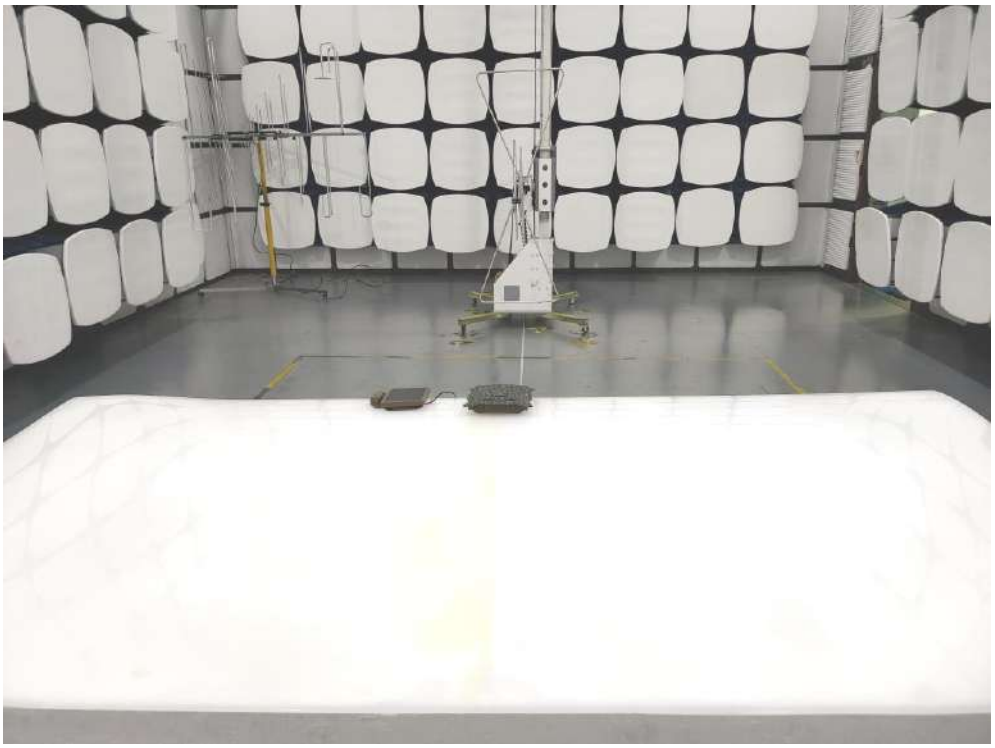
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

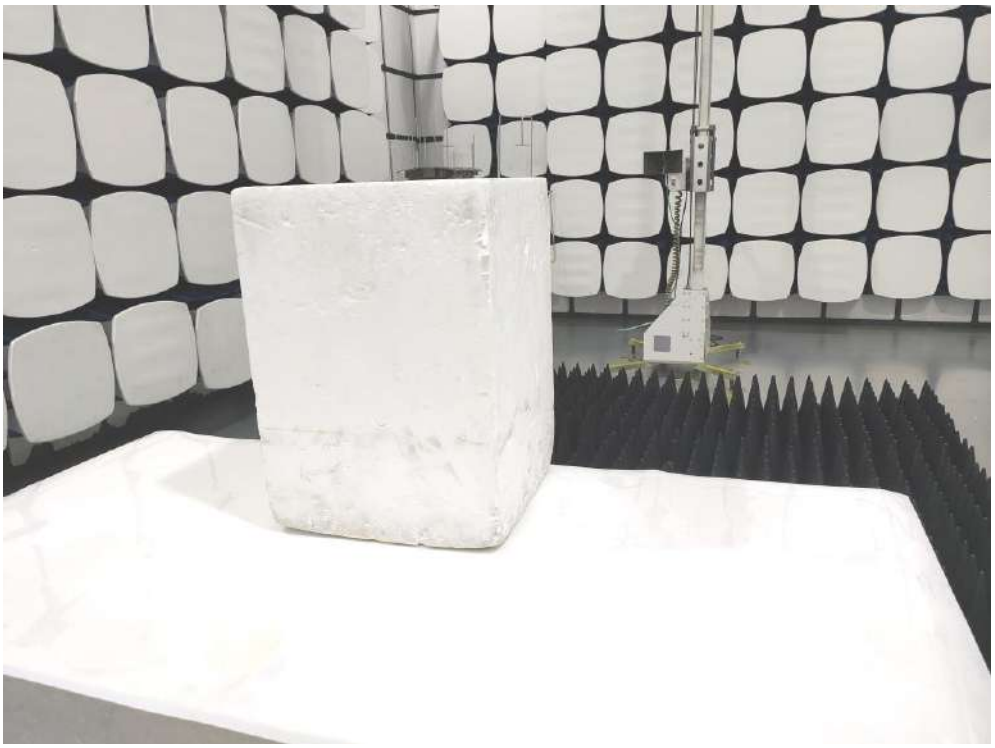
9.3. Results

The EUT antenna is internal Antenna. It complies with the standard requirement.

10. Photos Of Test Setup

10.1. Photos of Radiated emission





10.2.Photo of Conducted Emission test

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