



FCC TEST REPORT

FCC ID: 2BAF2-AJG

On Behalf of

Shenzhen Fusion Aurora Technology Co., Ltd

Carplay Android Box

Model No.: ZONE, R601, R602, R608, R603

Prepared for : Shenzhen Fusion Aurora Technology Co., Ltd
Address : L25, 4th Floor, Lianhui Building, Longhua Street, Longhua District,
Shenzhen

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

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TABLE OF CONTENTS

<u>Description</u>	<u>Page</u>
1. Summary of Standards And Results -----	5
1.1. Description of Standards and Results -----	5
2. General Information -----	6
2.1. Description of Device (EUT) -----	6
2.2. Accessories of Device (EUT) -----	7
2.3. Tested Supporting System Details -----	7
2.4. Block Diagram of connection between EUT and simulators -----	7
2.5. Test Mode Description -----	8
2.6. Test Conditions -----	9
2.7. Test Facility -----	9
2.8. Measurement Uncertainty -----	9
2.9. Test Equipment List -----	10
3. Spurious Emission -----	11
3.1. Test Limits -----	11
3.2. Test Procedure -----	12
3.3. Test Setup -----	12
3.4. Test Results -----	13
4. Power line Conducted Emission -----	32
4.1. Test Limits -----	32
4.2. Test Procedure -----	32
4.3. Test Setup -----	32
4.4. Test Results -----	32
5. Conducted Maximum Output Power -----	35
5.1. Test limits -----	35
5.2. Test Procedure -----	35
5.3. Test Setup -----	35
5.4. Test Results -----	35
6. Peak Power Spectral Density -----	36
6.1. Test limits -----	36
6.2. Test Procedure -----	36
6.3. Test Setup -----	36
6.4. Test Results -----	37
7. Bandwidth -----	44
7.1. Test limits -----	44
7.2. Test Procedure -----	44
7.3. Test Setup -----	44
7.4. Test Results -----	44
8. Band Edge Check -----	58
8.1. Test limits -----	58
8.2. Test Procedure -----	58
8.3. Test Setup -----	58
8.4. Test Results -----	58
9. Antenna Requirement -----	63
9.1. Standard Requirement -----	63
9.2. Antenna Connected Construction -----	63
9.3. Results -----	63
10. Test setup photo -----	64
10.1. Photos of Radiated emission -----	64
10.2. Photos of Conducted Emission test -----	65

TEST REPORT DECLARATION

Applicant : Shenzhen Fusion Aurora Technology Co., Ltd
 Address : L25, 4th Floor, Lianhui Building, Longhua Street, Longhua District, Shenzhen
 Manufacturer : Shenzhen Fusion Aurora Technology Co., Ltd
 Address : L25, 4th Floor, Lianhui Building, Longhua Street, Longhua District, Shenzhen
 EUT Description : Carplay Android Box
 (A) Model No. : ZONE, R601, R602, R608, R603
 (B) Trademark : N/A


Measurement Standard Used:

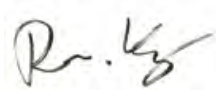
FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10-2013

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).....: Lucas Pang
 Project Engineer 

Approved by (name + signature).....: Reak Yang
 Project Manager 

Date of issue.....: March 18, 2023

Revision History

Revision	Issue Date	Revisions	Revised By
V0	March 18, 2023	Initial released Issue	Lucas Pang

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 ANSI C63.10	P
6dB Bandwidth	FCC PART 15:15.247(a)(2) ANSI C63.10	P
Output Power	FCC Part 15: 15.247(b)(3) ANSI C63.10	P
Radiated Spurious Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10	P
Conducted Spurious & Band Edge Emission	FCC Part 15: 15.247(d) ANSI C63.10	P
Power Spectral Density	FCC PART 15:15.247(e) ANSI C63.10	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d) ANSI C63.10	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)

EUT Name : Carplay Android Box
Model No. : ZONE, R601, R602, R608, R603
DIFF. : There is no difference except the name of the model. All tests are made with the ZONE model.
Power supply : DC 5V from USB

2.4G WIFI

Operation frequency : 2412MHz-2462MHz for IEEE 802.11 b, g, n/HT20,
2422MHz~2452MHz for IEEE802.11n/HT40
Channel No. : 802.11b/802.11g /802.11n(HT20): 11CH
802.11(HT40): 7CH
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)
Antenna Type : FPC antenna, max gain 1.05dBi
(Antenna information is provided by applicant.)

Software version : V1.0
Hardware version : V1.0

Intend use environment : Residential, commercial and light industrial environment

Note : /

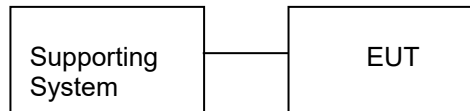
2.2. Accessories of Device (EUT)

Accessories : Adapter
Manufacturer : Shenzhen Keyu Power Supply Co., Ltd.
Model : KA1801A-0503000US
Ratings : Input: 100-240V~ 50/60Hz 0.55A
Output: 5V=3.0A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1.	TV	TCL	32 inches	N/A	N/A
2.	Adapter	Huoniu	HNFCQC3024 UU	N/A	N/A

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, n/HT20					
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		
For IEEE 802.11 n/HT40					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	2422	CH5	2442		
CH2	2427	CH6	2447		
CH3	2432	CH7	2452		
CH4	2437				

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
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°C
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	1316.3003K03-10 2082-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	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (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			

3.2. Test Procedure

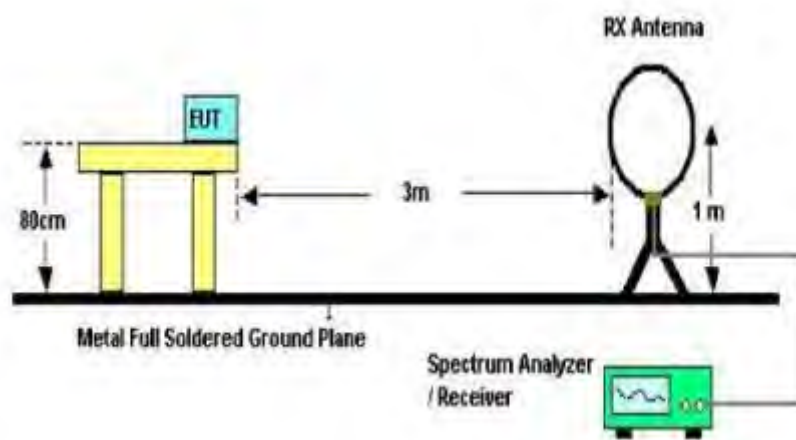
The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz. The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing, the table was rotated 360 degrees to determine the position of the highest radiation. The Test 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

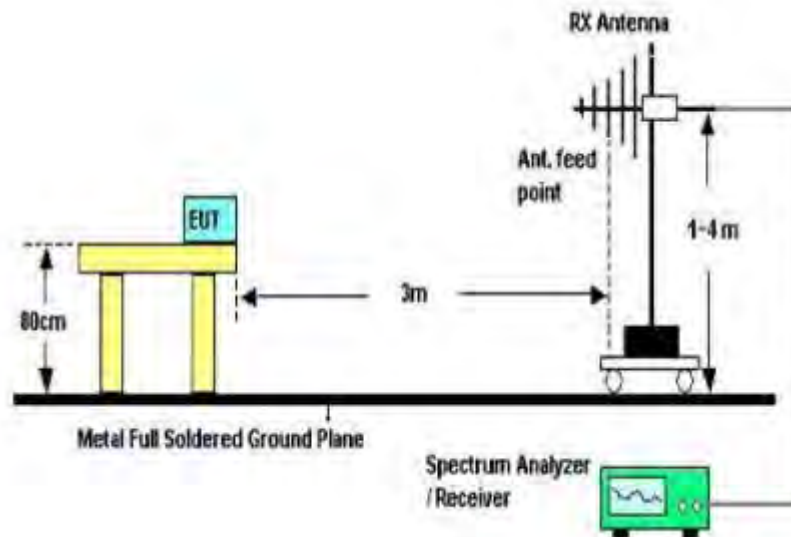
If Peak value comply with QP limit below 1GHz, the EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.

For the actual test configuration, please see the test setup photo.

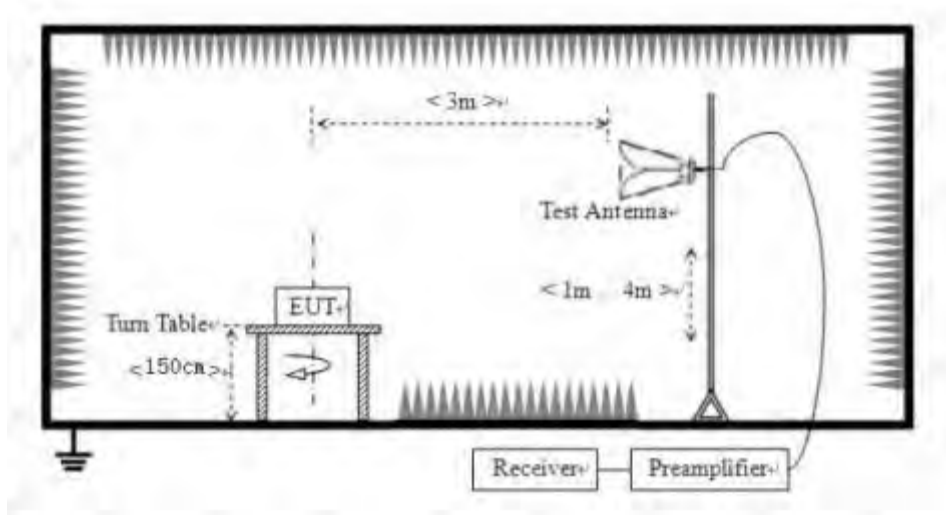
3.3. Test Setup



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

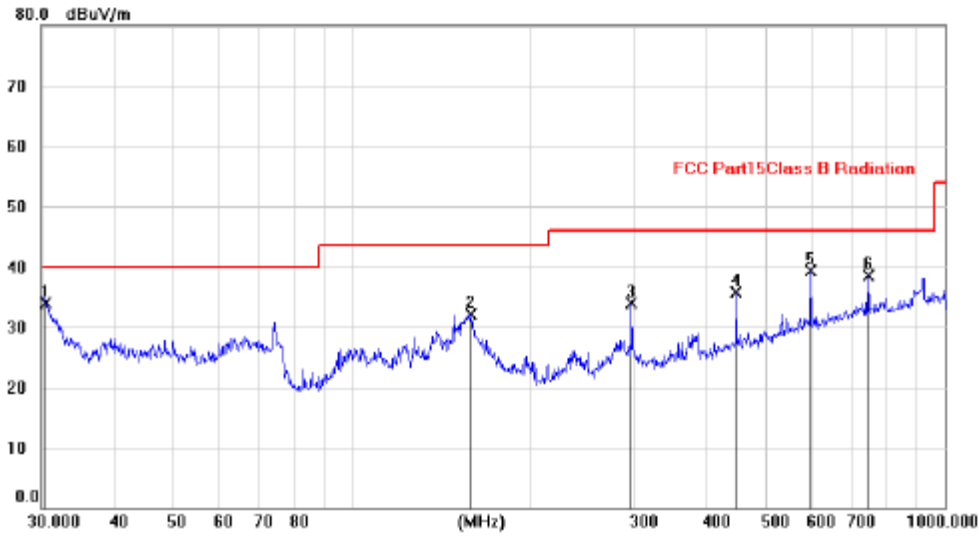
Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

3. Except for mode b/g, other modes test the MIMO status.

From 30MHz to 1000MHz: Conclusion: PASS

Vertical:

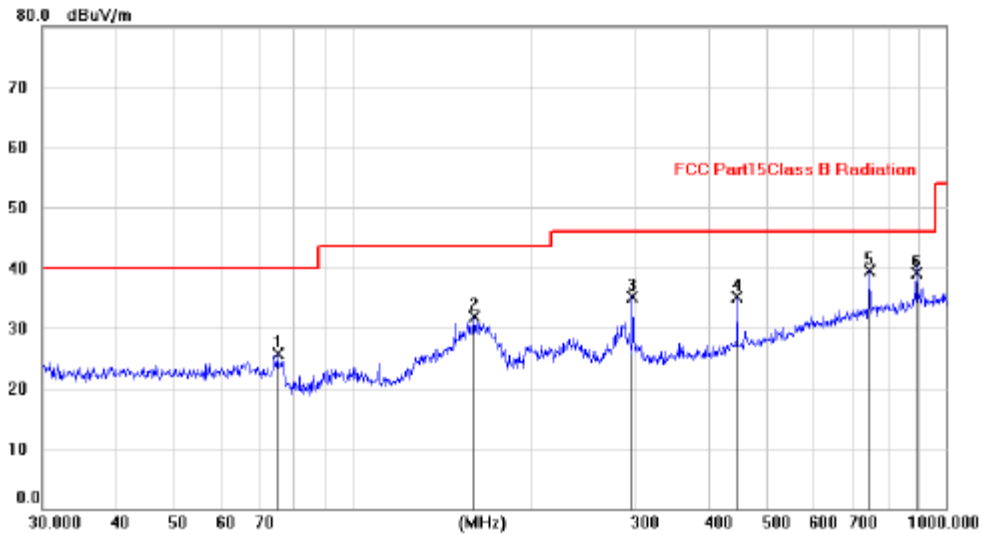


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.6092	20.27	13.57	33.84	40.00	-6.16			peak
2		158.8719	17.14	15.04	32.18	43.50	-11.32			peak
3		296.9810	19.87	14.03	33.90	46.00	-12.10			peak
4		445.5279	18.15	17.46	35.61	46.00	-10.39			peak
5		594.0208	19.27	20.10	39.37	46.00	-6.63			peak
6		742.5190	16.10	22.31	38.41	46.00	-7.59			peak

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	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		74.6918	15.03	10.60	25.63	40.00	-14.37			peak
2		160.6271	16.86	14.98	31.84	43.50	-11.66			peak
3		297.0157	21.17	14.03	35.20	46.00	-10.80			peak
4		445.4758	17.60	17.46	35.06	46.00	-10.94			peak
5	*	742.5190	17.19	22.31	39.50	46.00	-6.50			peak
6		891.0402	15.22	23.92	39.14	46.00	-6.86			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 b 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	48.10	V	33.93	10.18	34.26	57.95	74	-16.05	PK
4824	36.57	V	33.93	10.18	34.26	46.42	54	-7.58	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.66	H	33.93	10.18	34.26	57.51	74	-16.49	PK
4824	35.87	H	33.93	10.18	34.26	45.72	54	-8.28	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX Mid									
4874	49.08	V	33.95	10.20	34.26	58.97	74	-15.03	PK
4874	35.96	V	33.95	10.20	34.26	45.85	54	-8.15	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.40	H	33.95	10.20	34.26	58.29	74	-15.71	PK
4874	34.59	H	33.95	10.20	34.26	44.48	54	-9.52	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX High									
4924	47.06	V	33.98	10.22	34.25	57.01	74	-16.99	PK
4924	33.02	V	33.98	10.22	34.25	42.97	54	-11.03	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	46.61	H	33.98	10.22	34.25	56.56	74	-17.44	PK
4924	32.61	H	33.98	10.22	34.25	42.56	54	-11.44	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	48.78	V	33.93	10.18	34.26	58.63	74	-15.37	PK
4824	36.47	V	33.93	10.18	34.26	46.32	54	-7.68	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.08	H	33.93	10.18	34.26	56.93	74	-17.07	PK
4824	35.54	H	33.93	10.18	34.26	45.39	54	-8.61	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX Mid									
4874	49.11	V	33.95	10.20	34.26	59.00	74	-15.00	PK
4874	35.35	V	33.95	10.20	34.26	45.24	54	-8.76	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.89	H	33.95	10.20	34.26	58.78	74	-15.22	PK
4874	34.10	H	33.95	10.20	34.26	43.99	54	-10.01	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX High									
4924	47.43	V	33.98	10.22	34.25	57.38	74	-16.62	PK
4924	33.89	V	33.98	10.22	34.25	43.84	54	-10.16	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	46.30	H	33.98	10.22	34.25	56.25	74	-17.75	PK
4924	32.39	H	33.98	10.22	34.25	42.34	54	-11.66	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 802.11n 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	48.09	V	33.93	10.18	34.26	57.94	74	-16.06	PK
4824	36.12	V	33.93	10.18	34.26	45.97	54	-8.03	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.01	H	33.93	10.18	34.26	56.86	74	-17.14	PK
4824	35.31	H	33.93	10.18	34.26	45.16	54	-8.84	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX Mid									
4874	49.88	V	33.95	10.20	34.26	59.77	74	-14.23	PK
4874	35.15	V	33.95	10.20	34.26	45.04	54	-8.96	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.21	H	33.95	10.20	34.26	58.10	74	-15.90	PK
4874	34.94	H	33.95	10.20	34.26	44.83	54	-9.17	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX High									
4924	47.79	V	33.98	10.22	34.25	57.74	74	-16.26	PK
4924	33.86	V	33.98	10.22	34.25	43.81	54	-10.19	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	46.30	H	33.98	10.22	34.25	56.25	74	-17.75	PK
4924	32.58	H	33.98	10.22	34.25	42.53	54	-11.47	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 802.11n 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
4844	48.90	V	33.93	10.18	34.26	58.75	74	-15.25	PK
4844	36.11	V	33.93	10.18	34.26	45.96	54	-8.04	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
4844	47.46	H	33.93	10.18	34.26	57.31	74	-16.69	PK
4844	35.21	H	33.93	10.18	34.26	45.06	54	-8.94	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX Mid									
4874	49.16	V	33.95	10.20	34.26	59.05	74	-14.95	PK
4874	35.29	V	33.95	10.20	34.26	45.18	54	-8.82	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.01	H	33.95	10.20	34.26	57.90	74	-16.10	PK
4874	34.40	H	33.95	10.20	34.26	44.29	54	-9.71	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX High									
4904	47.29	V	33.98	10.22	34.25	57.24	74	-16.76	PK
4904	33.87	V	33.98	10.22	34.25	43.82	54	-10.18	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/
4904	46.80	H	33.98	10.22	34.25	56.75	74	-17.25	PK
4904	32.94	H	33.98	10.22	34.25	42.89	54	-11.11	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/
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.									

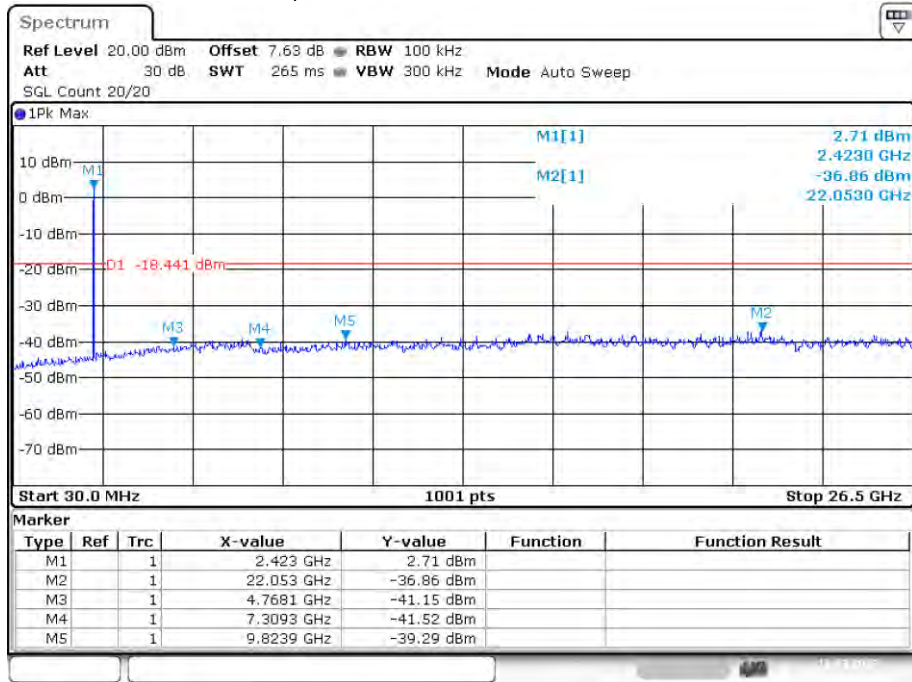
Conducted RF Spurious Emission

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Date: 11.MAR.2023 06:41:01

Tx. Spurious NVNT b 2412MHz Ant1 Emission



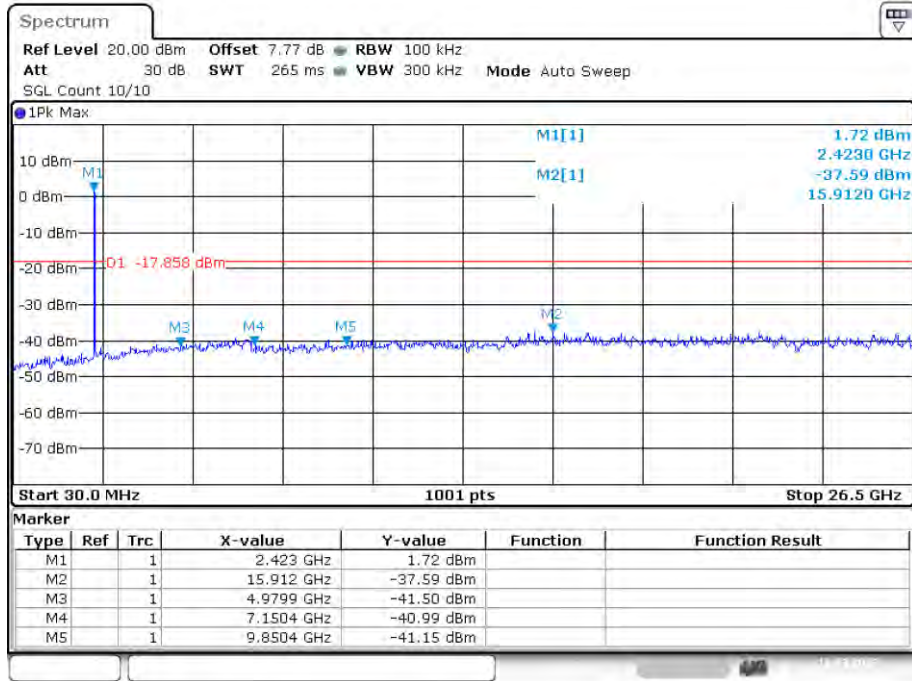
Date: 11.MAR.2023 06:41:33

Tx. Spurious NVNT b 2437MHz Ant1 Ref



Date: 11.MAR.2023 06:44:06

Tx. Spurious NVNT b 2437MHz Ant1 Emission



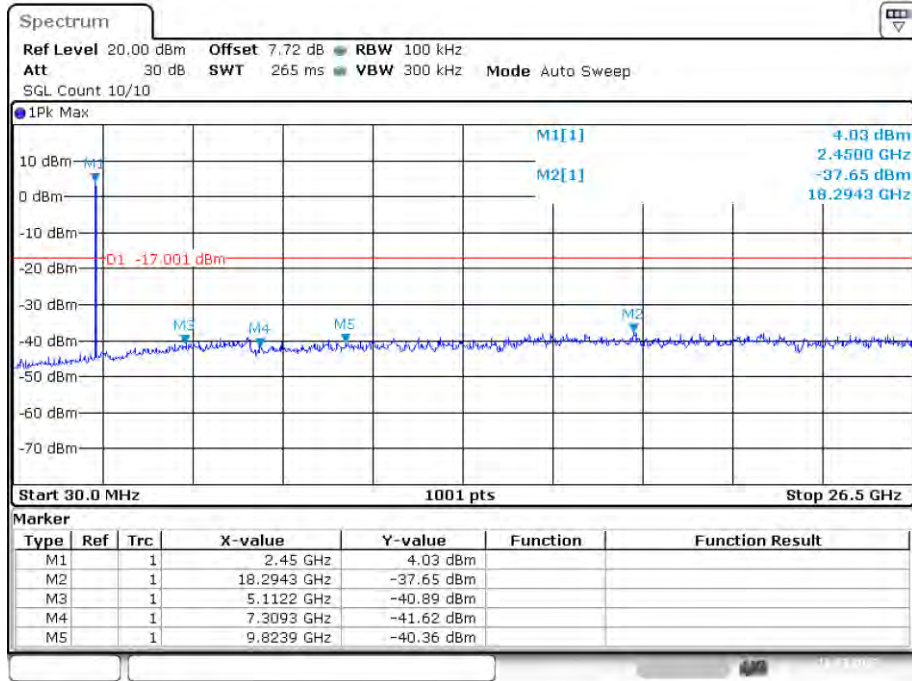
Date: 11.MAR.2023 06:44:24

Tx. Spurious NVNT b 2462MHz Ant1 Ref



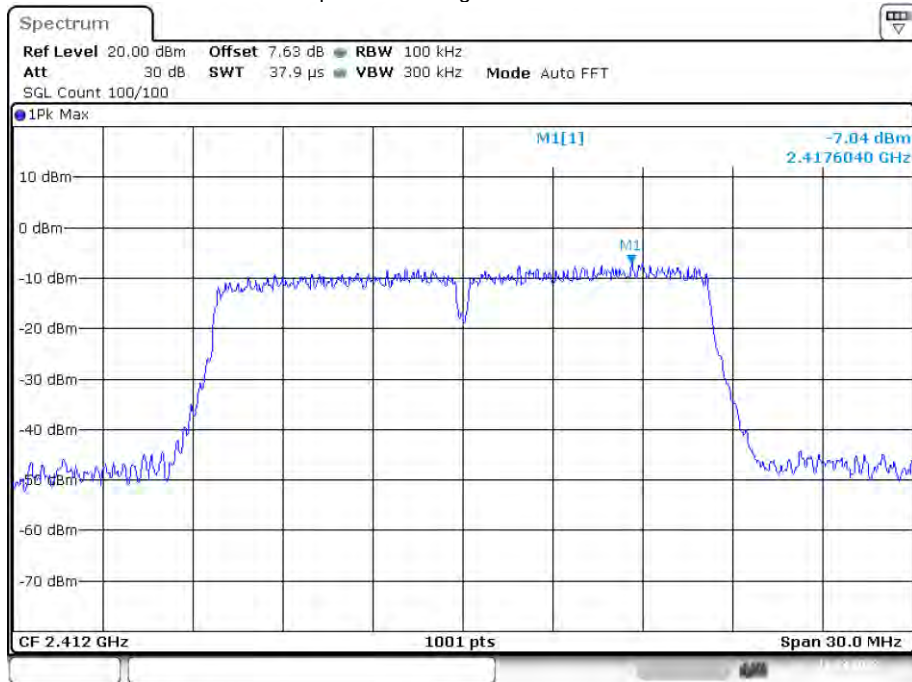
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Tx. Spurious NVNT b 2462MHz Ant1 Emission



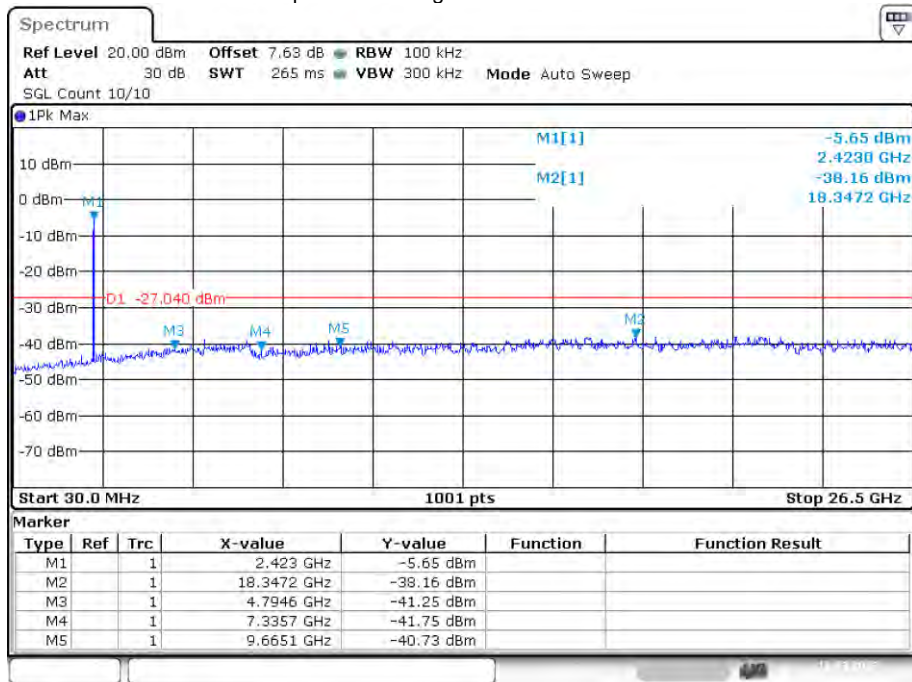
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Tx. Spurious NVNT g 2412MHz Ant1 Ref



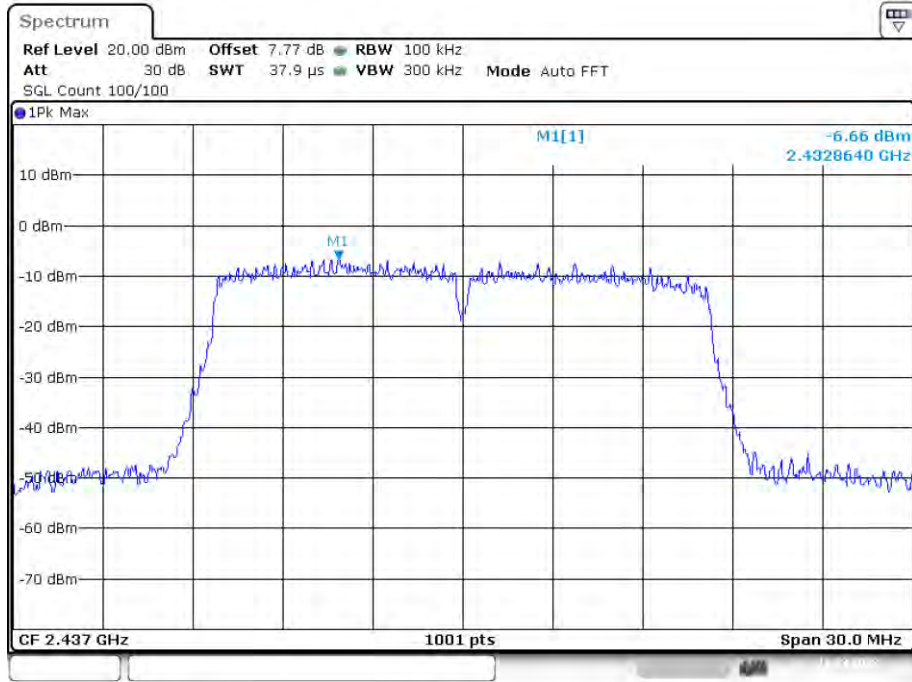
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Tx. Spurious NVNT g 2412MHz Ant1 Emission



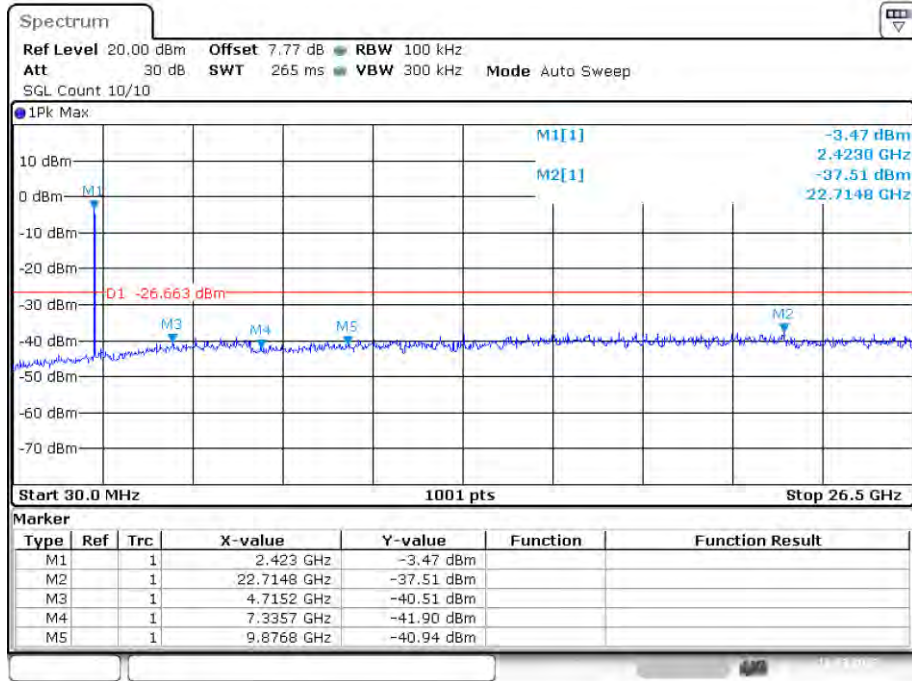
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



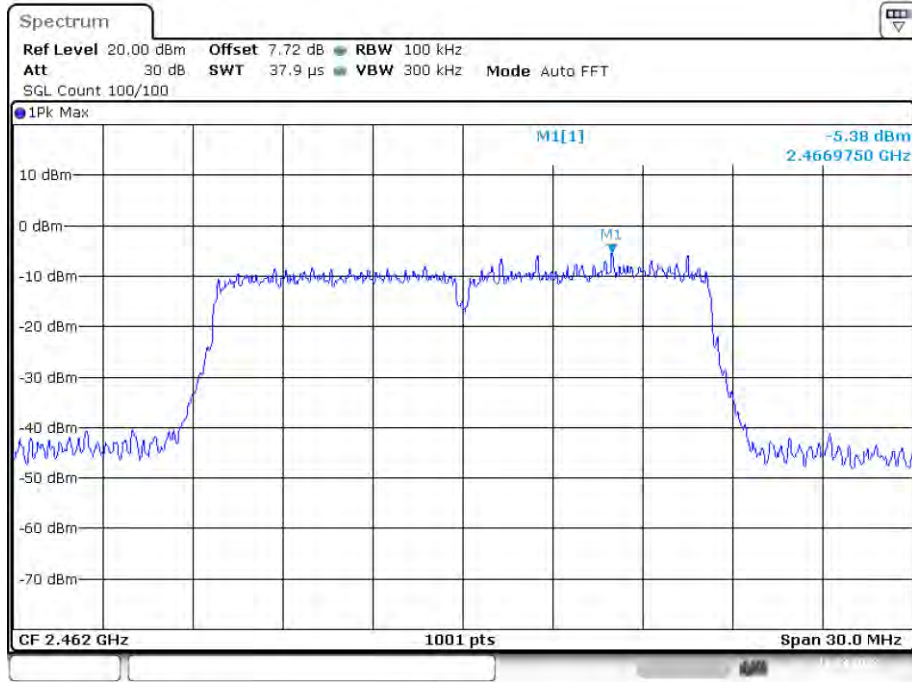
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Tx. Spurious NVNT g 2437MHz Ant1 Emission



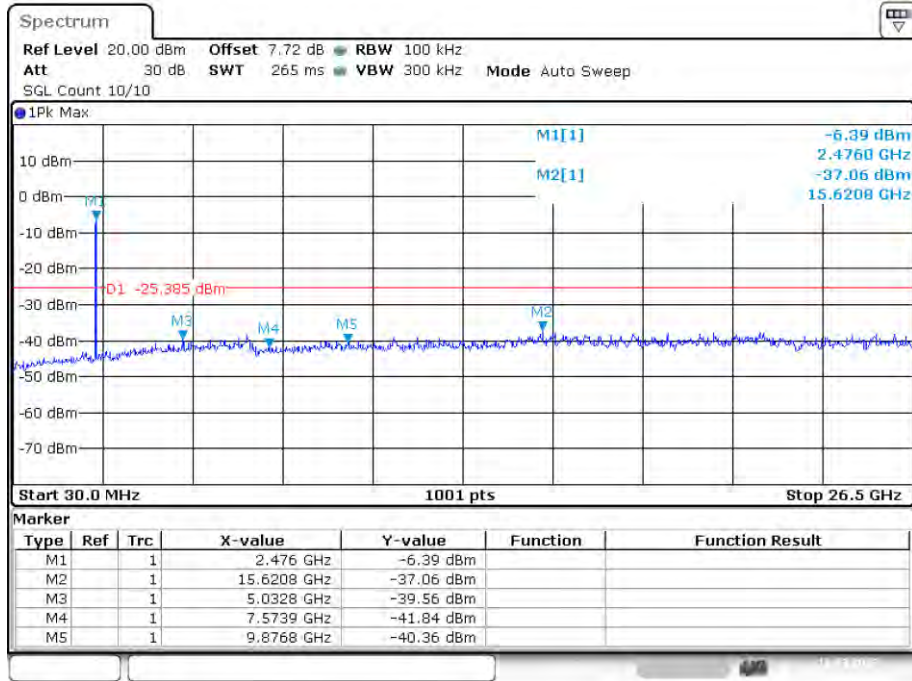
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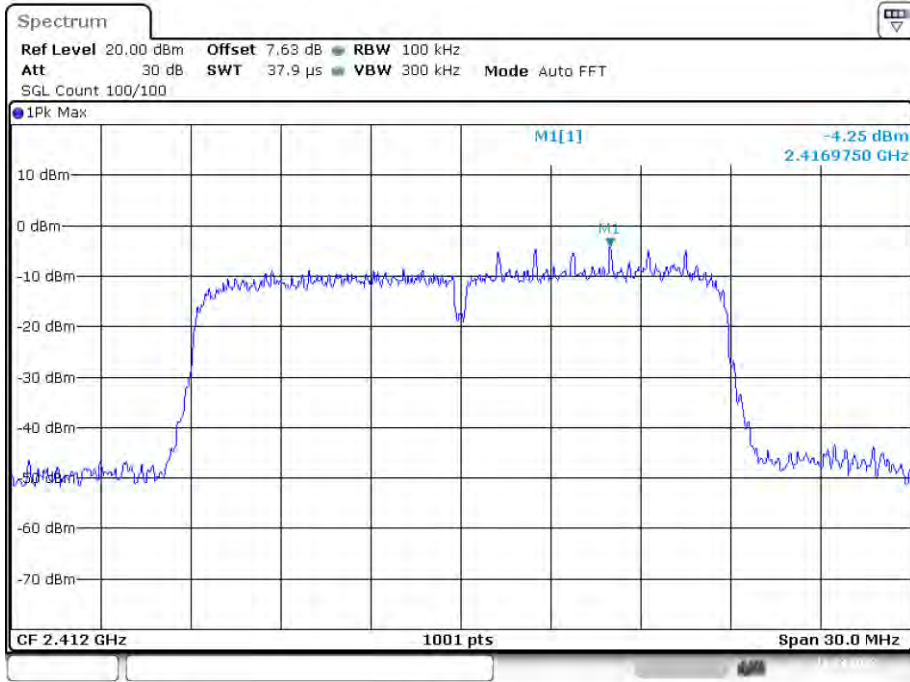
Date: 11.MAR.2023 06:55:33

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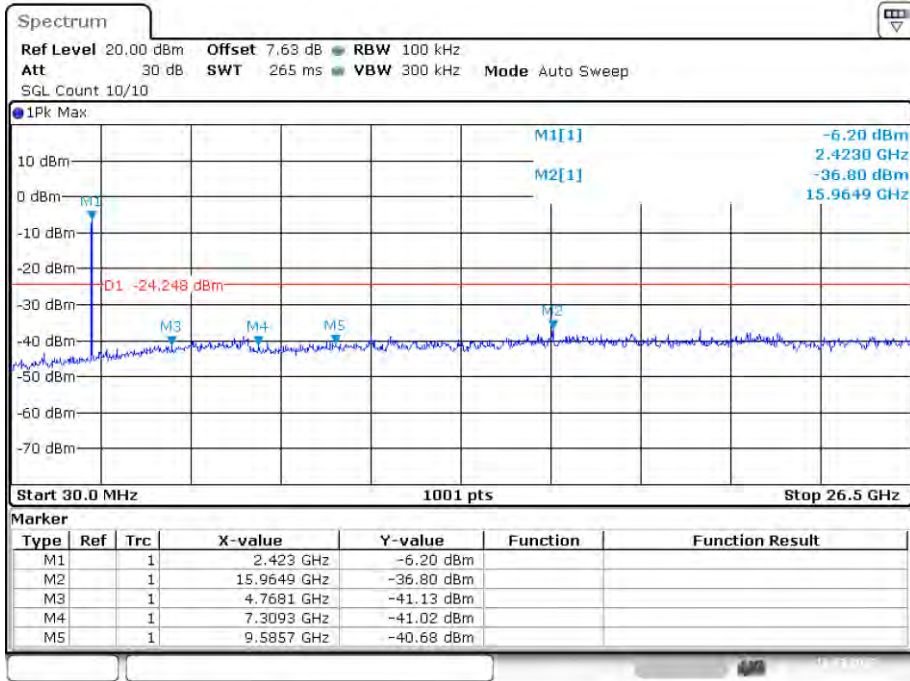
Date: 11.MAR.2023 06:55:51

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



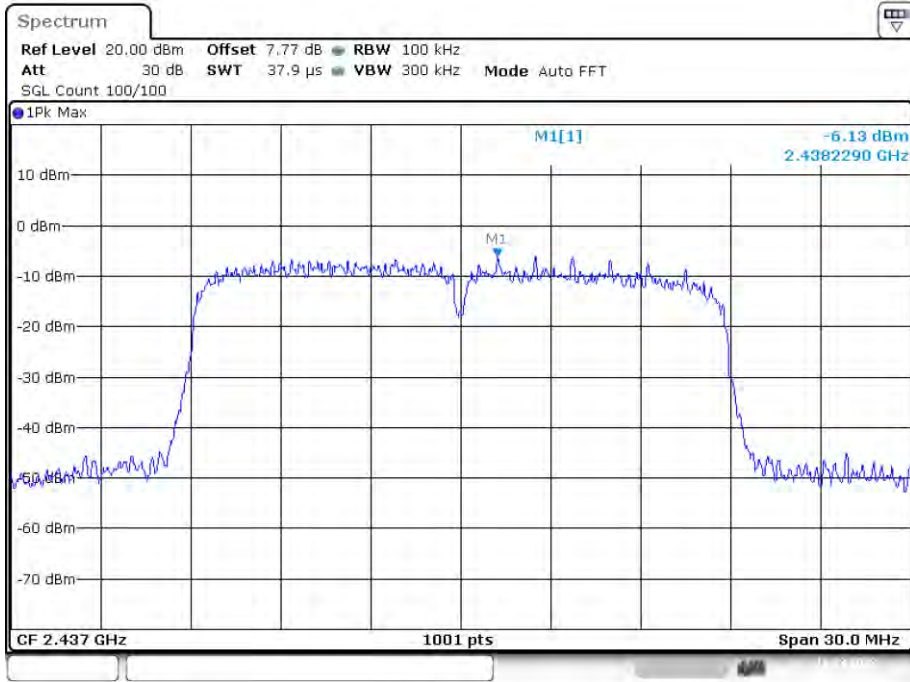
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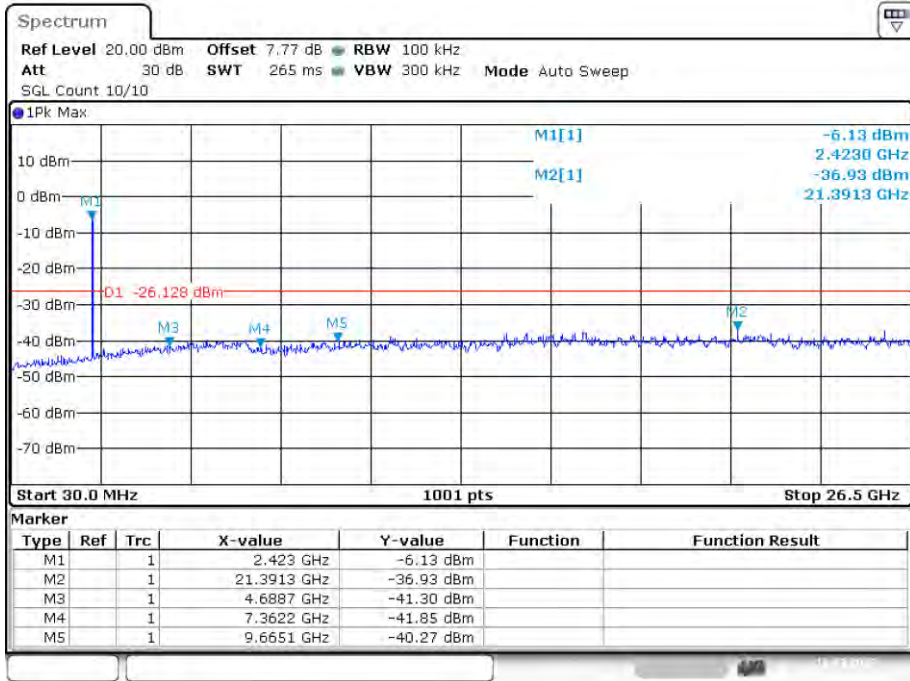
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Tx. Spurious NVNT n20 2437MHz Ant1 Ref



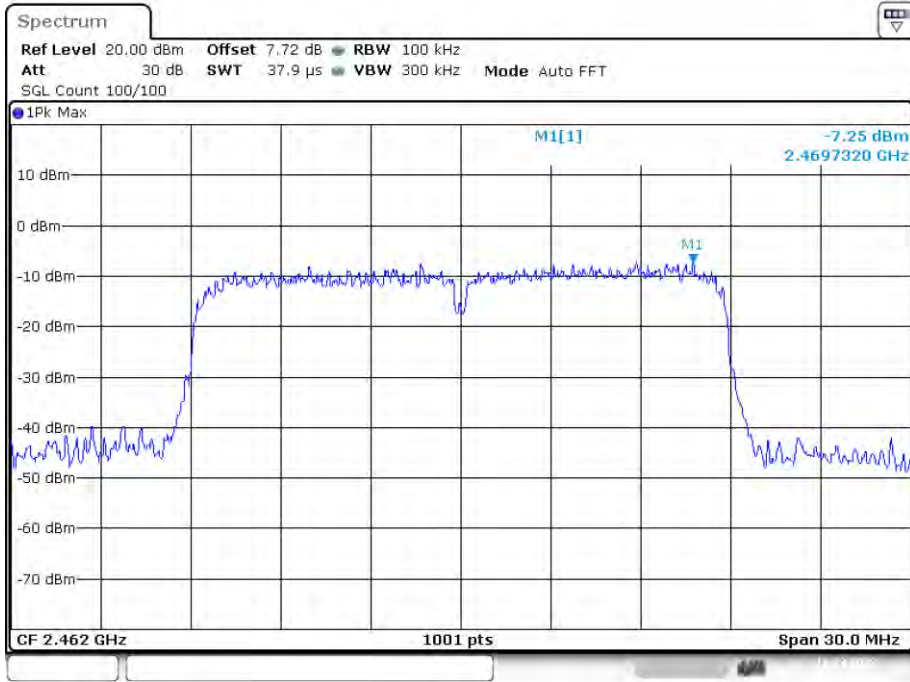
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Tx. Spurious NVNT n20 2437MHz Ant1 Emission



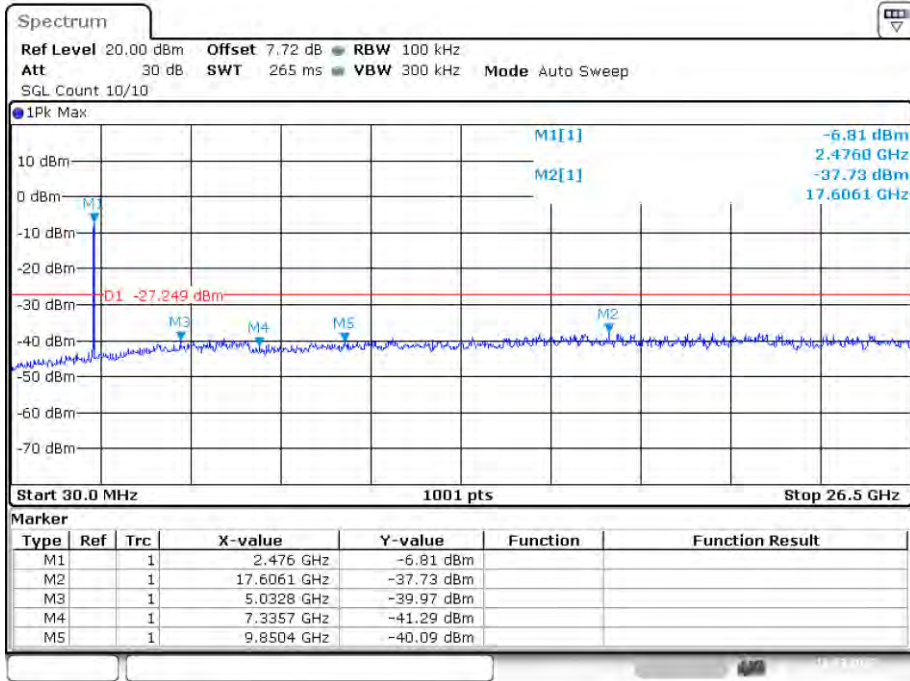
Date: 11.MAR.2023 09:03:16

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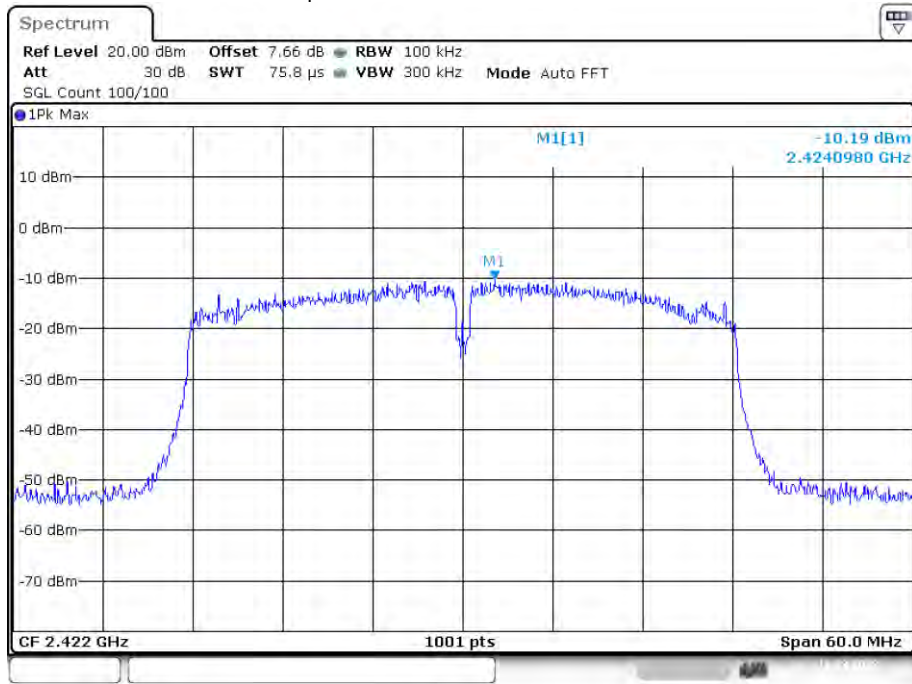
Date: 11.MAR.2023 09:06:08

Tx. Spurious NVNT n20 2462MHz Ant1 Emission



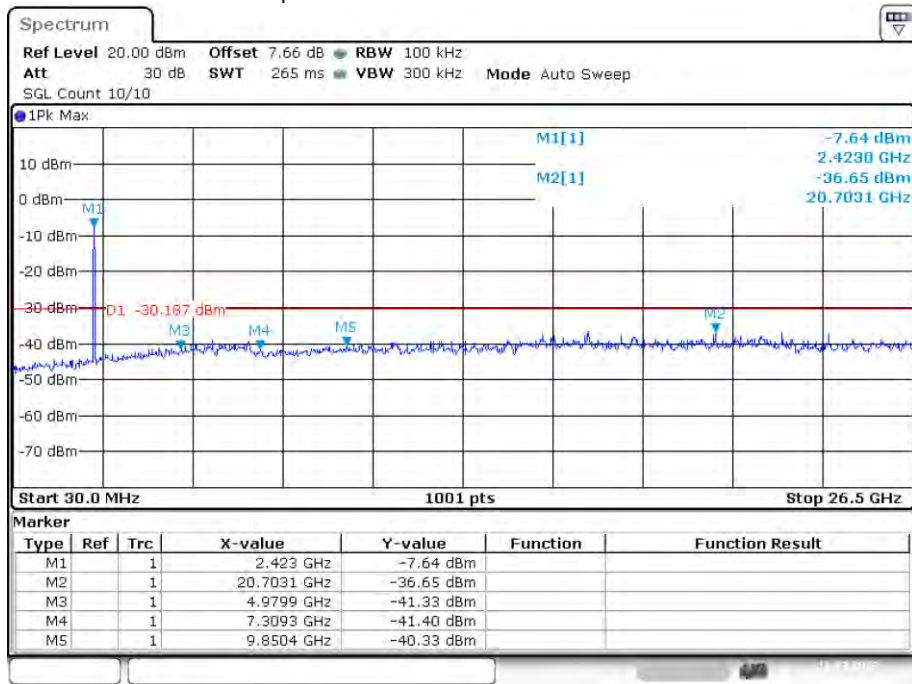
Date: 11.MAR.2023 09:06:26

Tx. Spurious NVNT n40 2422MHz Ant1 Ref



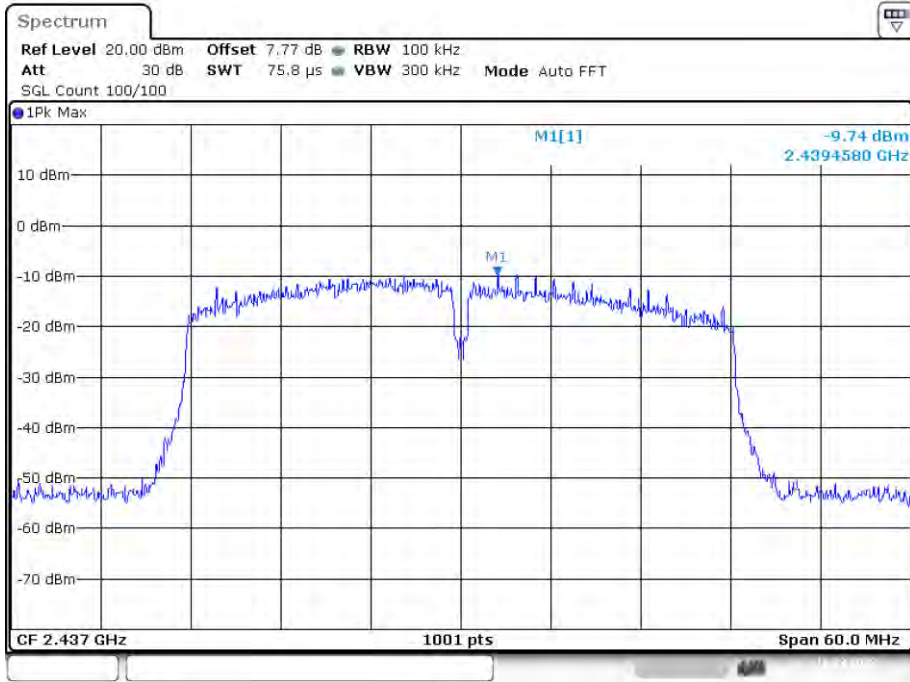
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Tx. Spurious NVNT n40 2422MHz Ant1 Emission



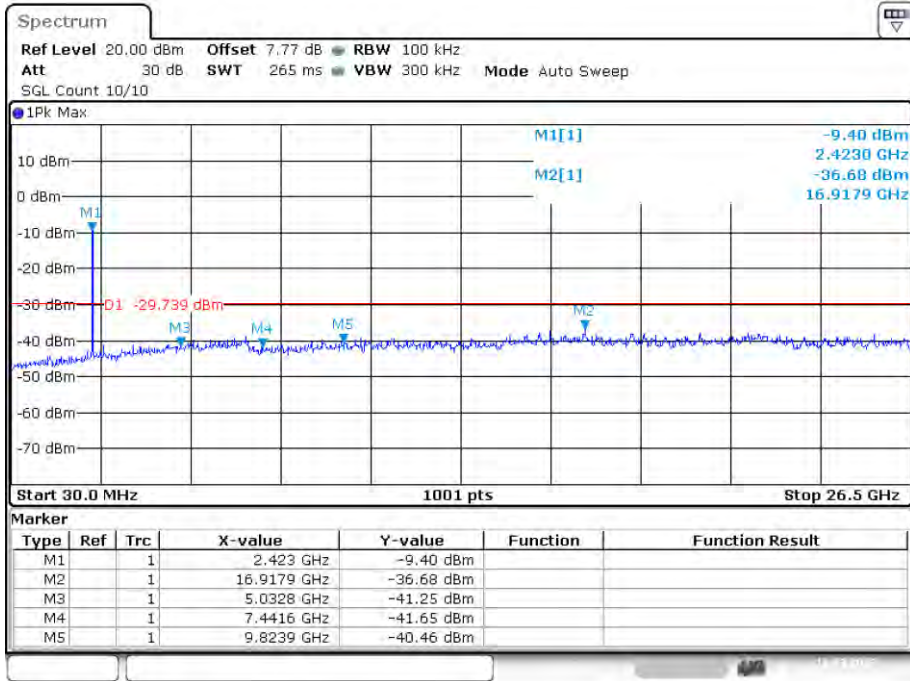
Date: 11.MAR.2023 09:11:03

Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Date: 11.MAR.2023 09:14:04

Tx. Spurious NVNT n40 2437MHz Ant1 Emission



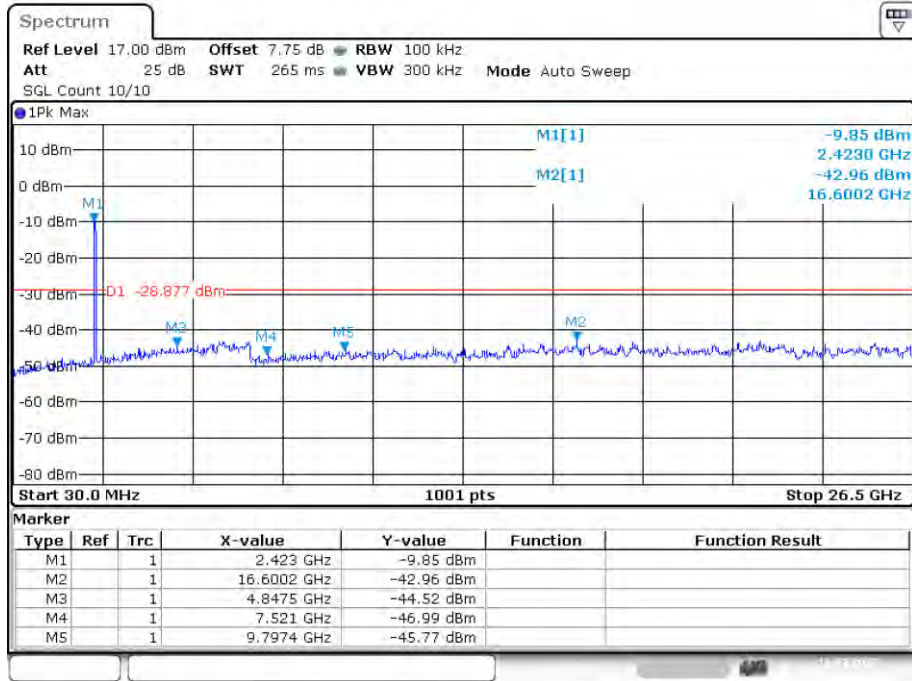
Date: 11.MAR.2023 09:14:22

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Date: 11.MAR.2023 09:18:04

Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Date: 11.MAR.2023 09:18:22

4. POWER LINE CONDUCTED EMISSION

4.1. Test Limits

Frequency MHz	Limits dB(μ V)	
	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.

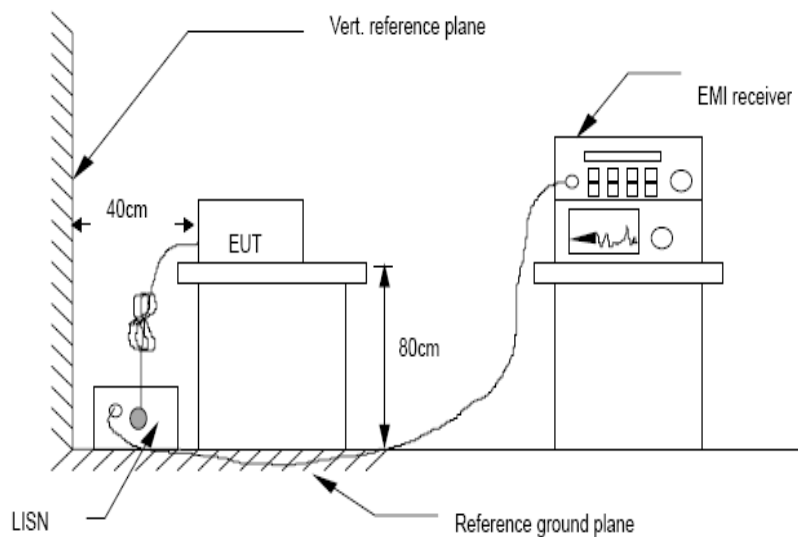
3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

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

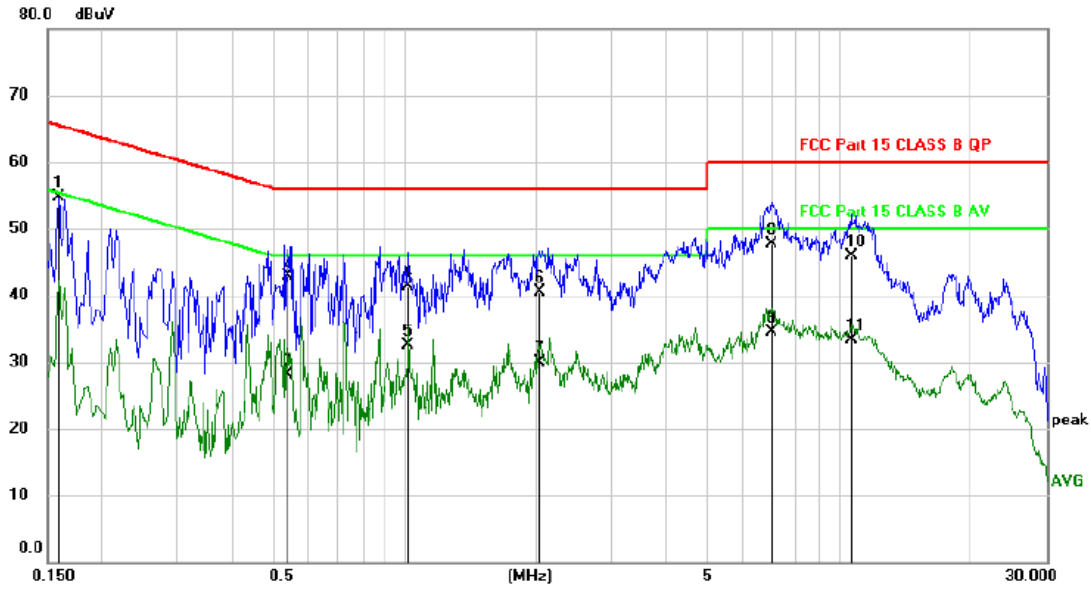


4.4. Test Results

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

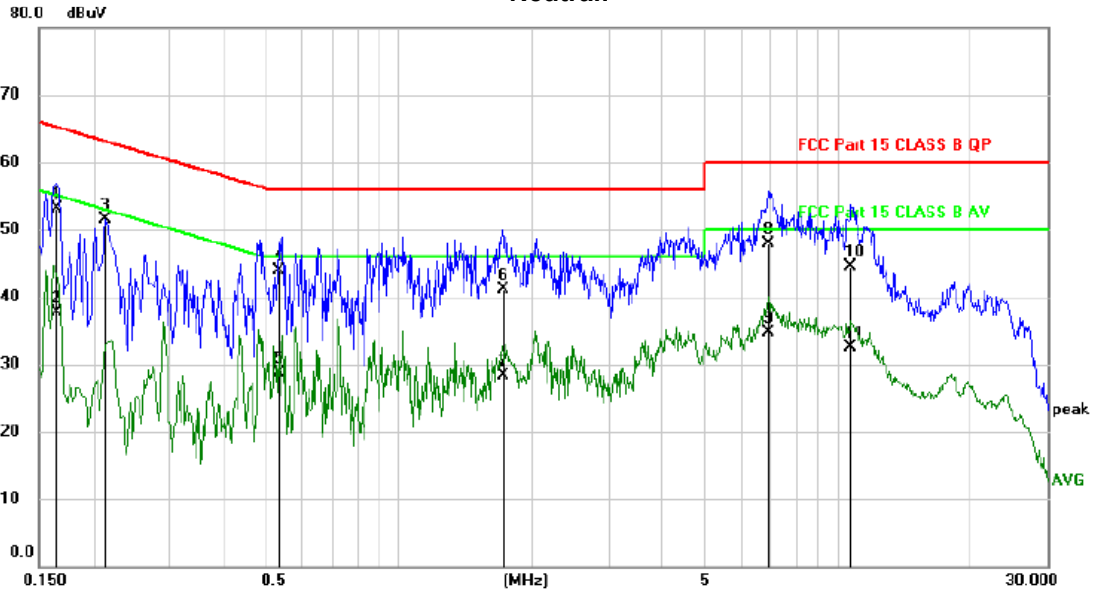
Line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1590	44.80	9.94	54.74	65.52	-10.78	peak	
2		0.5359	32.91	9.95	42.86	56.00	-13.14	QP	
3		0.5359	18.10	9.95	28.05	46.00	-17.95	AVG	
4		1.0193	31.30	9.92	41.22	56.00	-14.78	QP	
5		1.0193	22.56	9.92	32.48	46.00	-13.52	AVG	
6		2.0338	30.62	9.88	40.50	56.00	-15.50	QP	
7		2.0338	19.97	9.88	29.85	46.00	-16.15	AVG	
8		6.9779	37.58	10.12	47.70	60.00	-12.30	QP	
9		6.9779	24.31	10.12	34.43	50.00	-15.57	AVG	
10		10.7125	35.58	10.23	45.81	60.00	-14.19	QP	
11		10.7125	22.98	10.23	33.21	50.00	-16.79	AVG	

*: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

Neutral:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1650	43.23	9.93	53.16	65.21	-12.05	QP	
2		0.1650	27.72	9.93	37.65	55.21	-17.56	AVG	
3	*	0.2130	41.49	9.93	51.42	63.09	-11.67	peak	
4		0.5318	33.88	9.95	43.83	56.00	-12.17	QP	
5		0.5318	18.83	9.95	28.78	46.00	-17.22	AVG	
6		1.7253	31.19	9.89	41.08	56.00	-14.92	QP	
7		1.7253	18.35	9.89	28.24	46.00	-17.76	AVG	
8		6.9679	37.82	10.12	47.94	60.00	-12.06	QP	
9		6.9679	24.50	10.12	34.62	50.00	-15.38	AVG	
10		10.7044	34.19	10.23	44.42	60.00	-15.58	QP	
11		10.7044	22.36	10.23	32.59	50.00	-17.41	AVG	

*: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 B mode 2412MHz 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 peak output power of EUT.

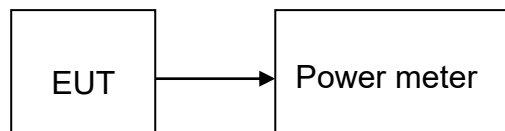
Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.2.4 The measure-and-sum technique shall be used for measuring in-band transmit power of a device.

Total power is the sum of the conducted power levels measured at the various output ports.

(First measure the power (mW) of each antenna separately, and the total power is equal to $Ant1^{mW} + Ant2^{mW} + \dots$)

5.3. Test Setup



5.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.764	0	14.764	30	Pass
NVNT	b	2437	Ant1	15.482	0	15.482	30	Pass
NVNT	b	2462	Ant1	15.721	0	15.721	30	Pass
NVNT	g	2412	Ant1	15.125	0.01	15.135	30	Pass
NVNT	g	2437	Ant1	15.329	0	15.329	30	Pass
NVNT	g	2462	Ant1	15.136	0	15.136	30	Pass
NVNT	n20	2412	Ant1	15.017	0	15.017	30	Pass
NVNT	n20	2437	Ant1	15.586	0	15.586	30	Pass
NVNT	n20	2462	Ant1	15.132	0	15.132	30	Pass
NVNT	n40	2422	Ant1	15.388	0	15.388	30	Pass
NVNT	n40	2437	Ant1	15.54	0	15.540	30	Pass
NVNT	n40	2452	Ant1	15.523	0	15.523	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.

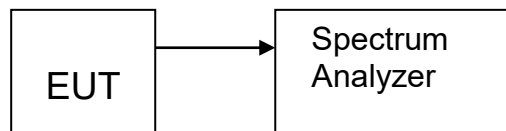
6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.2.3 Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.), VBW = 10kHz(Set the VBW $\geq 3 \times \text{RBW}$), span $\geq 1.5 \times \text{DTS bandwidth}$., 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	-11.747	8	Pass
NVNT	b	2437	Ant1	-9.144	8	Pass
NVNT	b	2462	Ant1	-9.388	8	Pass
NVNT	g	2412	Ant1	-17.071	8	Pass
NVNT	g	2437	Ant1	-17.103	8	Pass
NVNT	g	2462	Ant1	-17.627	8	Pass
NVNT	n20	2412	Ant1	-17.999	8	Pass
NVNT	n20	2437	Ant1	-15.953	8	Pass
NVNT	n20	2462	Ant1	-16.931	8	Pass
NVNT	n40	2422	Ant1	-19.408	8	Pass
NVNT	n40	2437	Ant1	-19.146	8	Pass
NVNT	n40	2452	Ant1	-19.425	8	Pass

PSD NVNT b 2412MHz Ant1



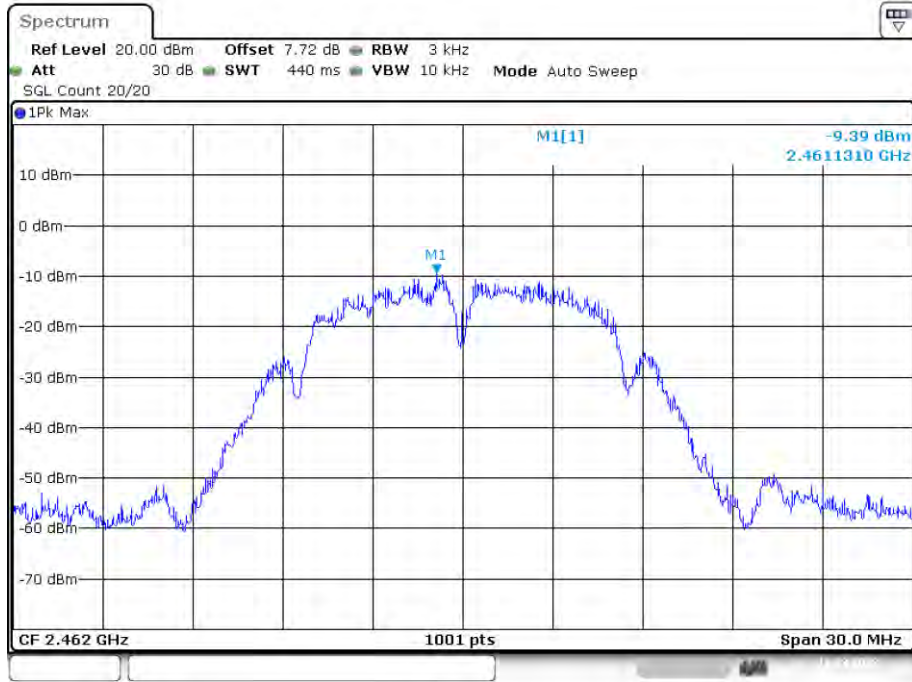
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PSD NVNT b 2437MHz Ant1



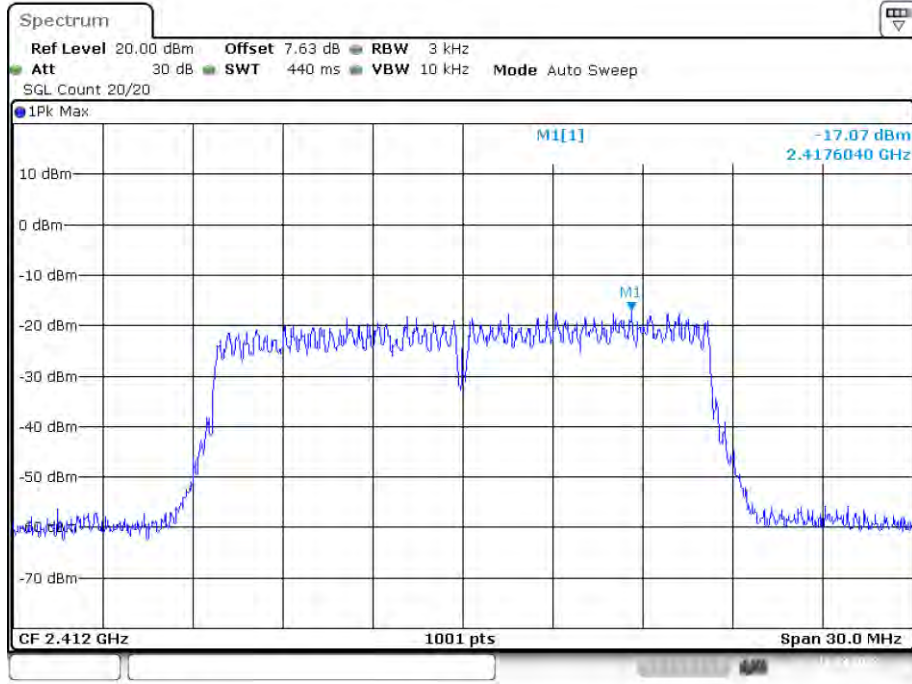
Date: 11.MAR.2023 06:43:56

PSD NVNT b 2462MHz Ant1



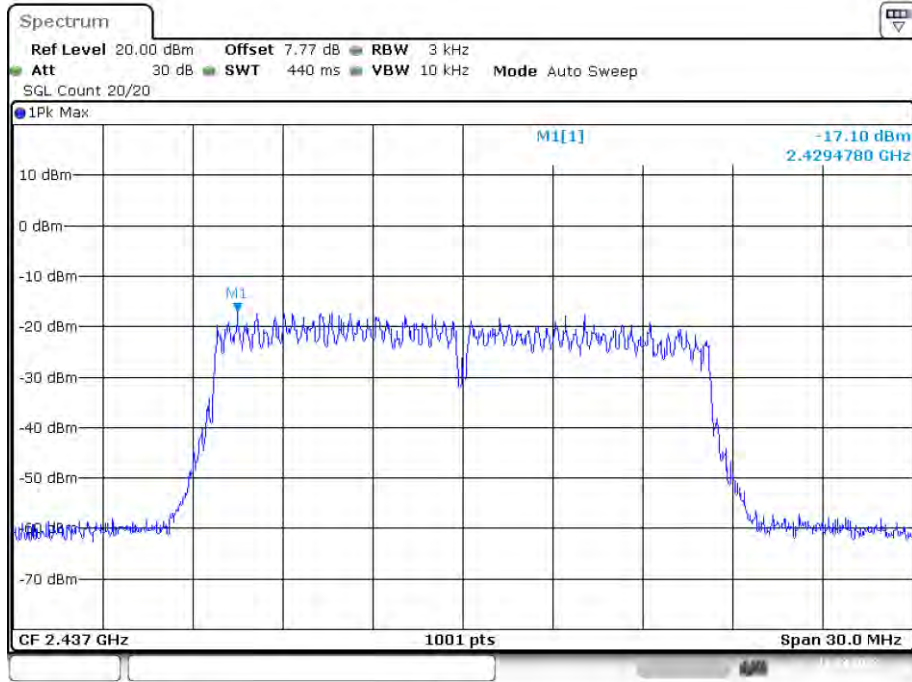
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PSD NVNT g 2412MHz Ant1



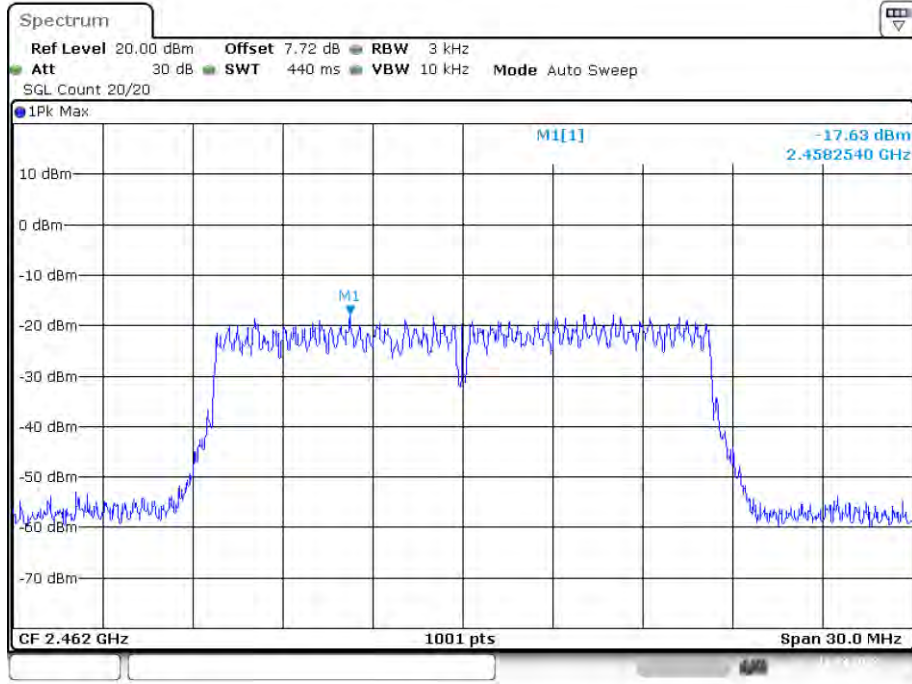
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PSD NVNT g 2437MHz Ant1



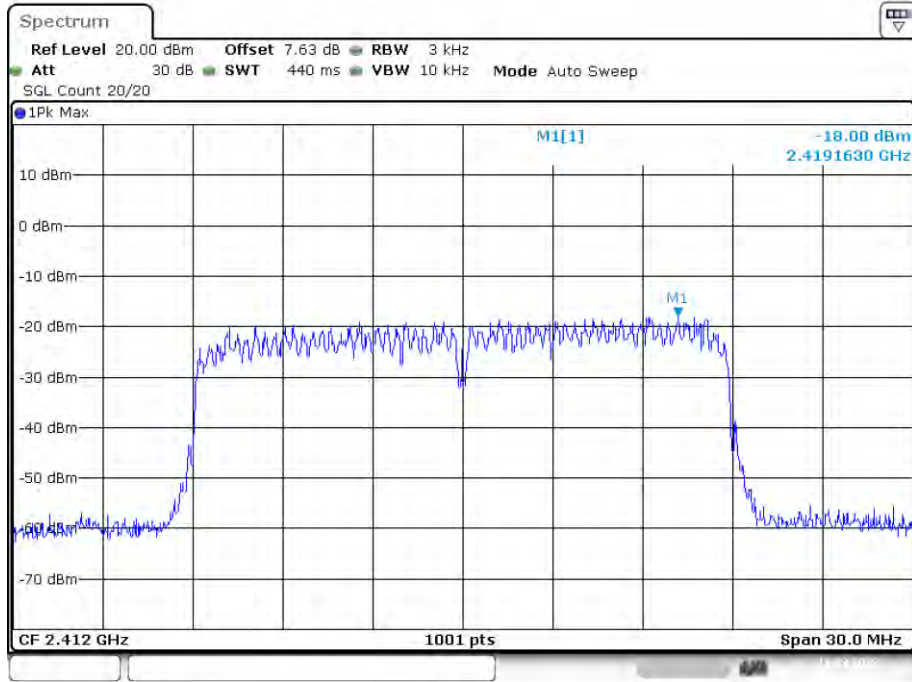
Date: 11.MAR.2023 06:51:27

PSD NVNT g 2462MHz Ant1



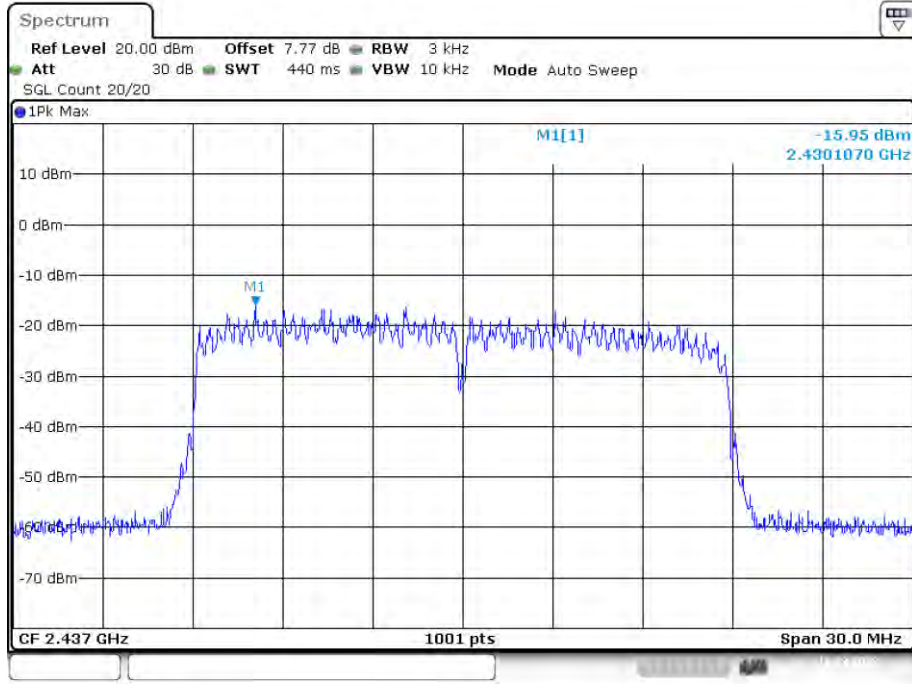
Date: 11.MAR.2023 06:55:05

PSD NVNT n20 2412MHz Ant1



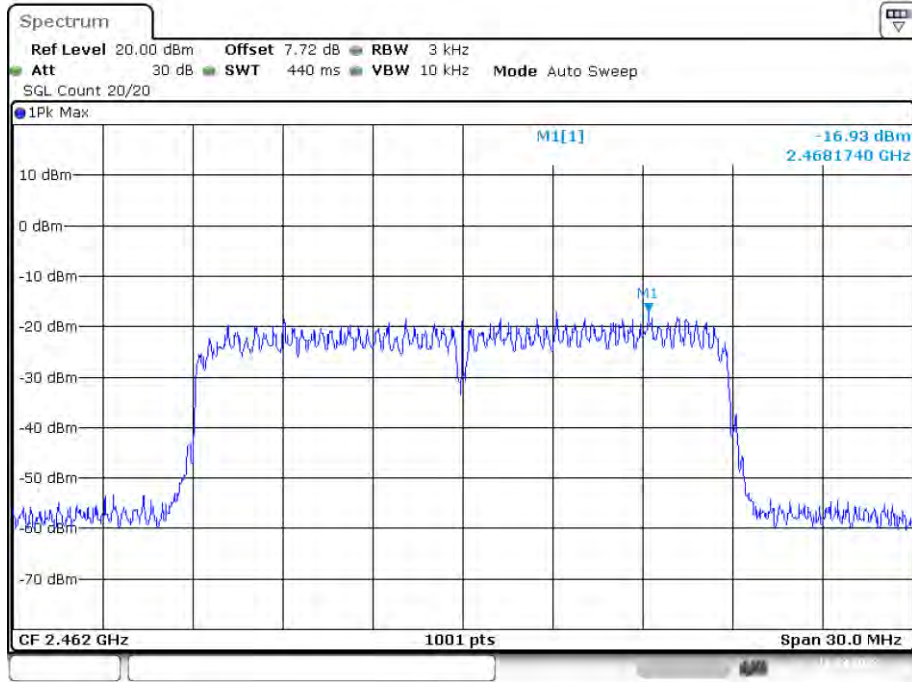
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PSD NVNT n20 2437MHz Ant1



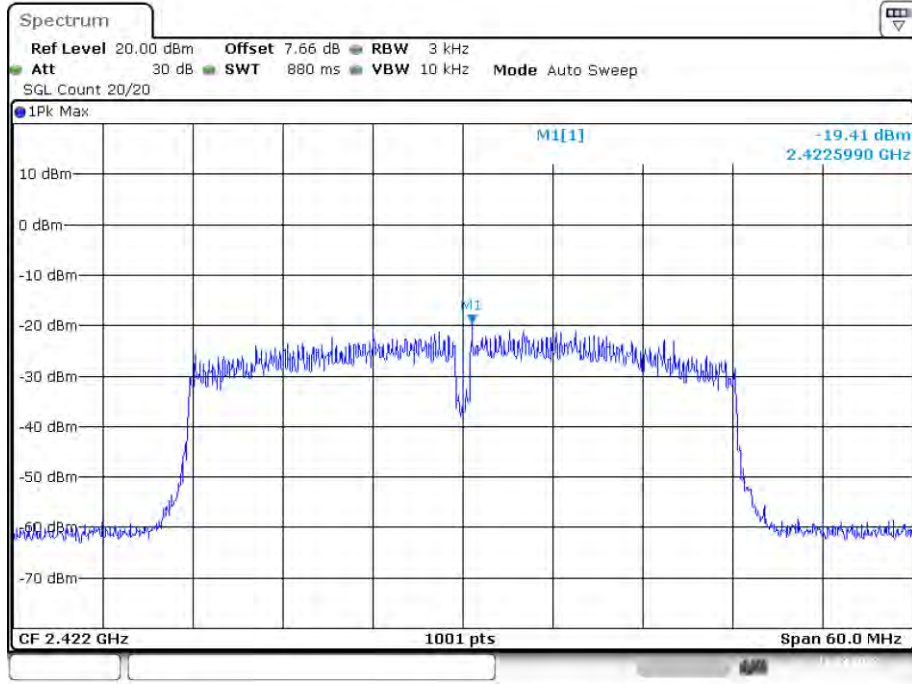
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PSD NVNT n20 2462MHz Ant1



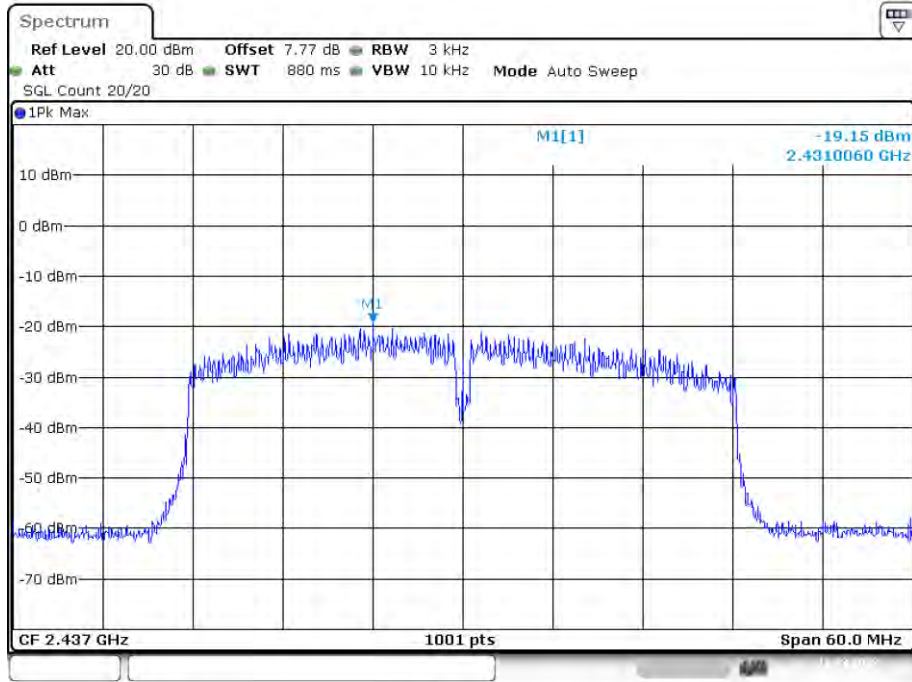
Date: 11.MAR.2023 09:05:37

PSD NVNT n40 2422MHz Ant1



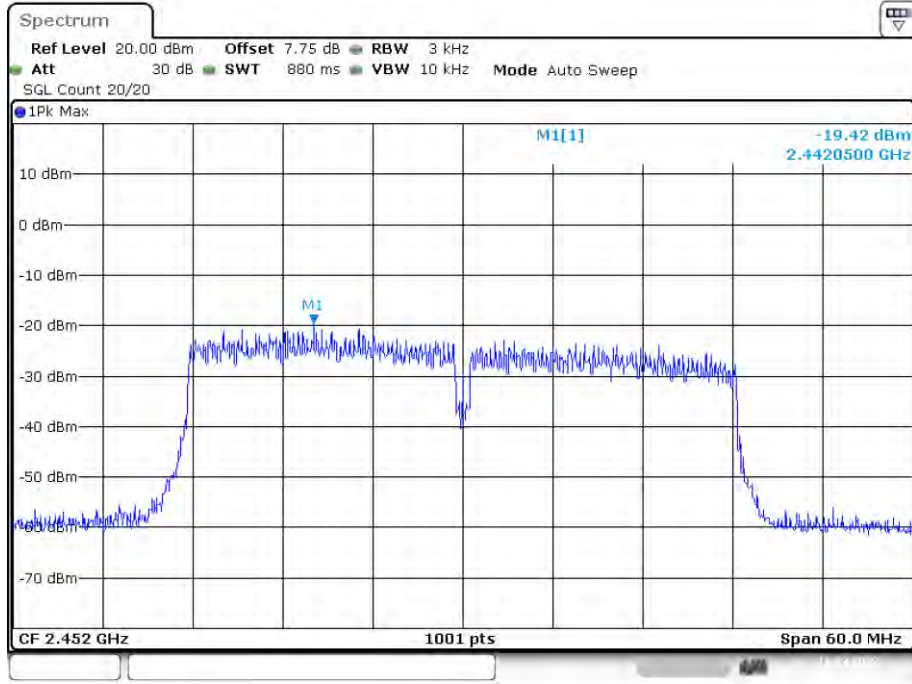
Date: 11.MAR.2023 09:10:10

PSD NVNT n40 2437MHz Ant1



Date: 11.MAR.2023 09:13:50

PSD NVNT n40 2452MHz Ant1



Date: 11.MAR.2023 09:17:26

7. BANDWIDTH

7.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247

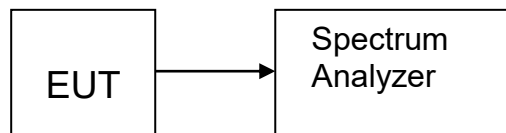
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

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 \geq 3*RBW =300kHz,, Peak Detector, Sweep time set auto, detail see the test plot.

7.3. Test Setup

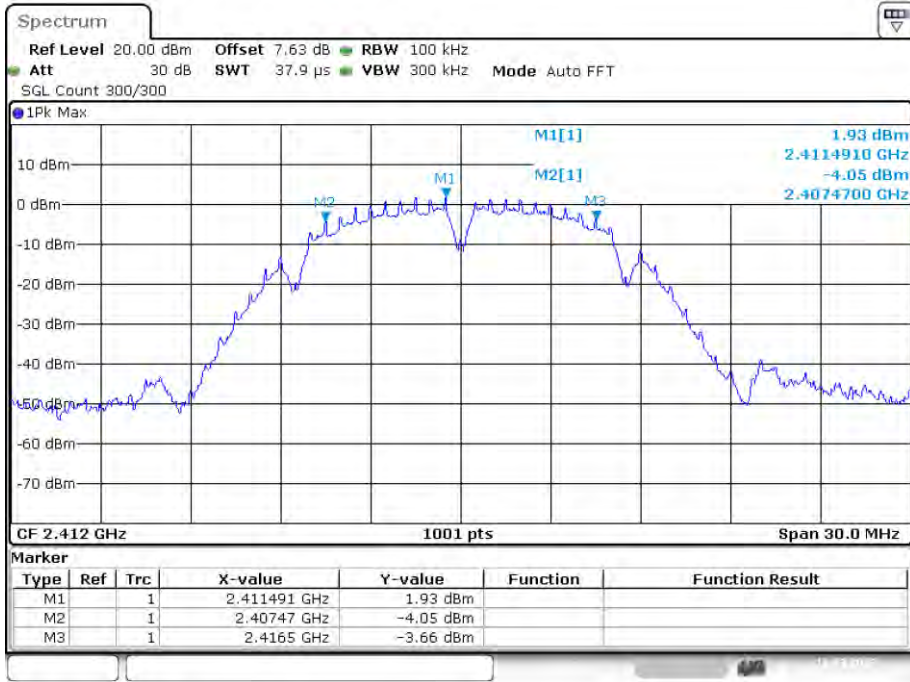


7.4. Test Results

-6dB Bandwidth

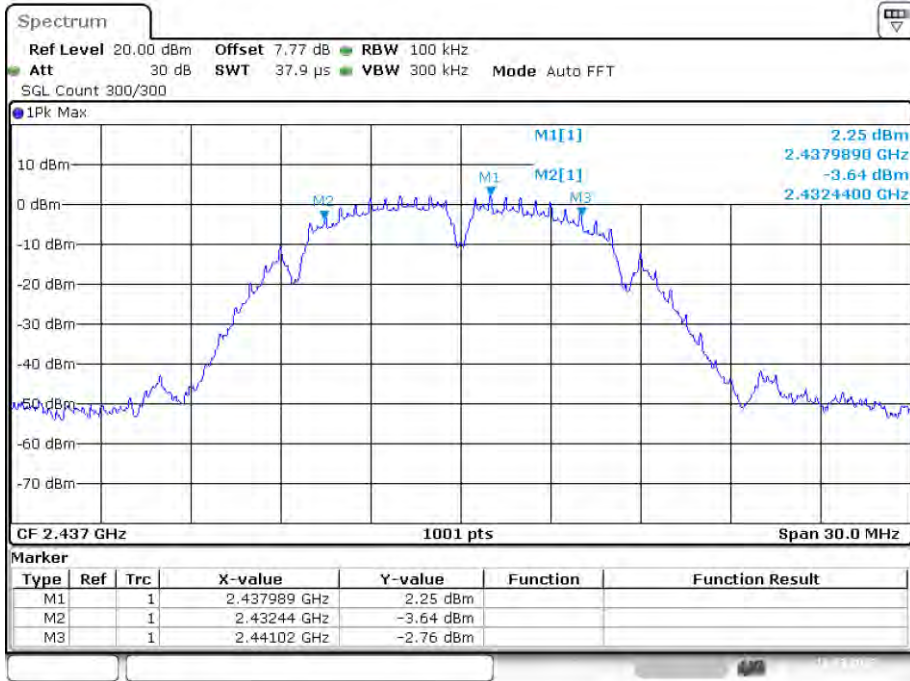
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.03	0.5	Pass
NVNT	b	2437	Ant1	8.58	0.5	Pass
NVNT	b	2462	Ant1	9.03	0.5	Pass
NVNT	g	2412	Ant1	15.69	0.5	Pass
NVNT	g	2437	Ant1	16.32	0.5	Pass
NVNT	g	2462	Ant1	16.35	0.5	Pass
NVNT	n20	2412	Ant1	17.19	0.5	Pass
NVNT	n20	2437	Ant1	16.41	0.5	Pass
NVNT	n20	2462	Ant1	16.95	0.5	Pass
NVNT	n40	2422	Ant1	26.22	0.5	Pass
NVNT	n40	2437	Ant1	26.4	0.5	Pass
NVNT	n40	2452	Ant1	31.98	0.5	Pass

-6dB Bandwidth NVNT b 2412MHz Ant1



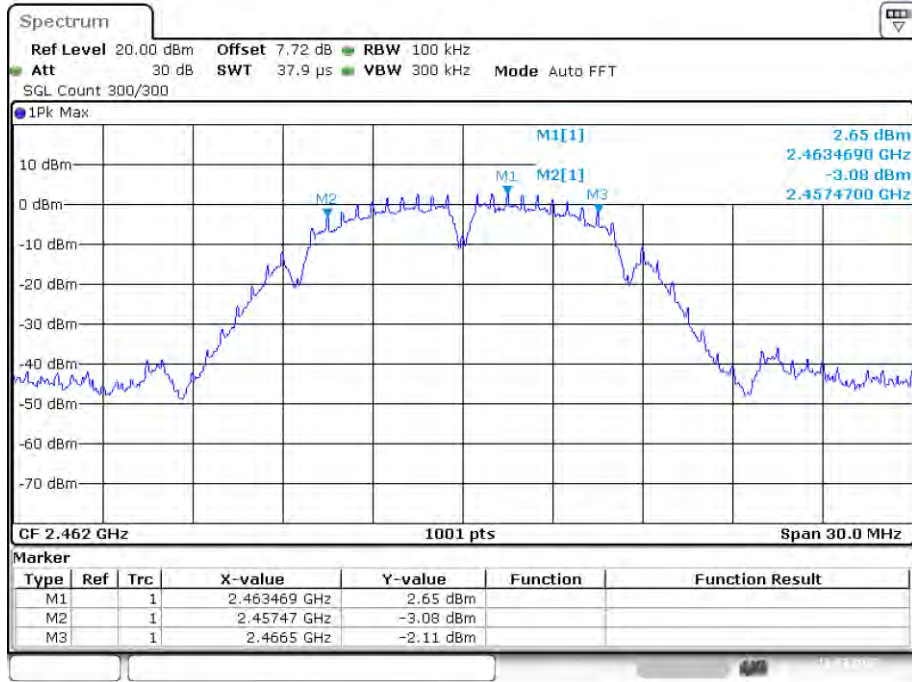
Date: 11.MAR.2023 06:35:39

-6dB Bandwidth NVNT b 2437MHz Ant1



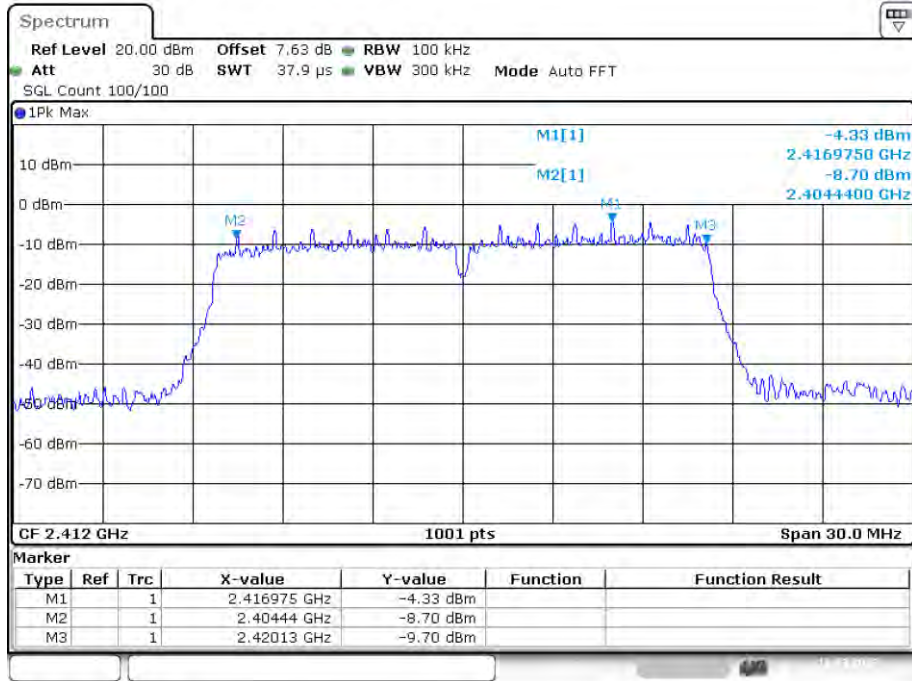
Date: 11.MAR.2023 06:43:35

-6dB Bandwidth NVNT b 2462MHz Ant1



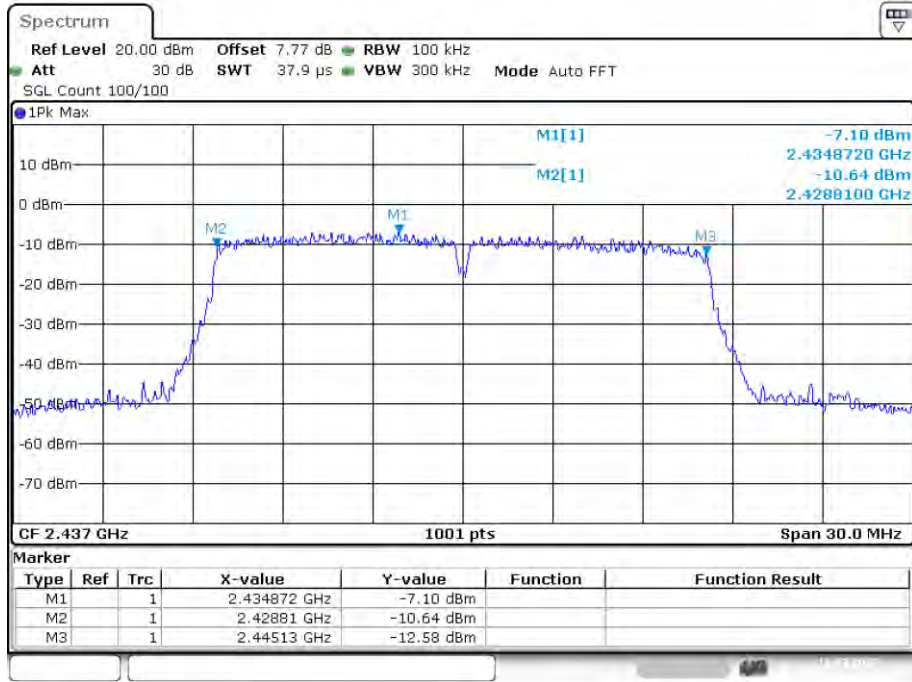
Date: 11.MAR.2023 06:45:34

-6dB Bandwidth NVNT g 2412MHz Ant1



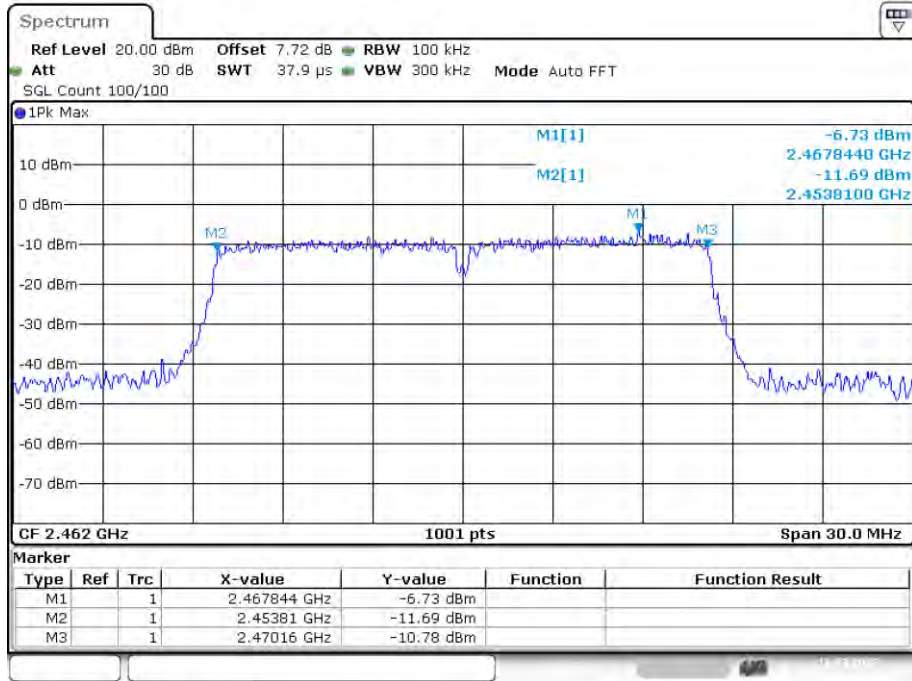
Date: 11.MAR.2023 06:48:18

-6dB Bandwidth NVNT g 2437MHz Ant1



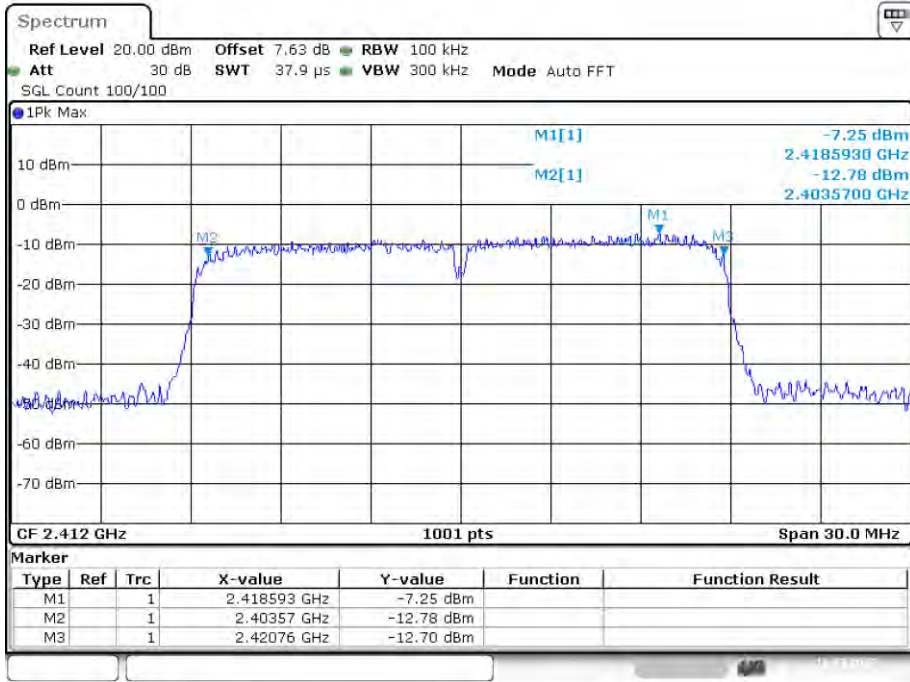
Date: 11.MAR.2023 06:51:04

-6dB Bandwidth NVNT g 2462MHz Ant1



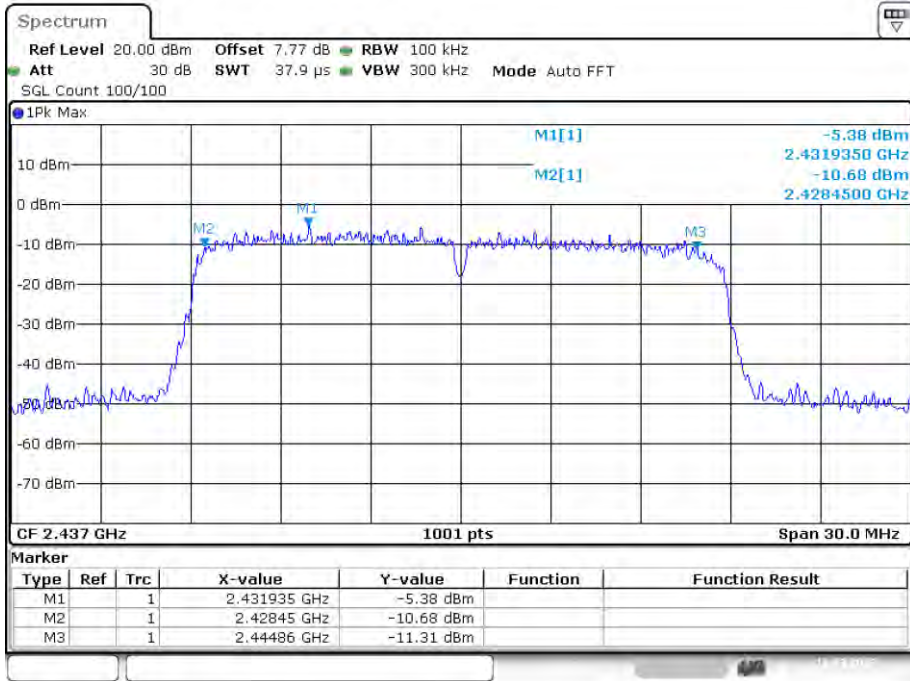
Date: 11.MAR.2023 06:54:42

-6dB Bandwidth NVNT n20 2412MHz Ant1



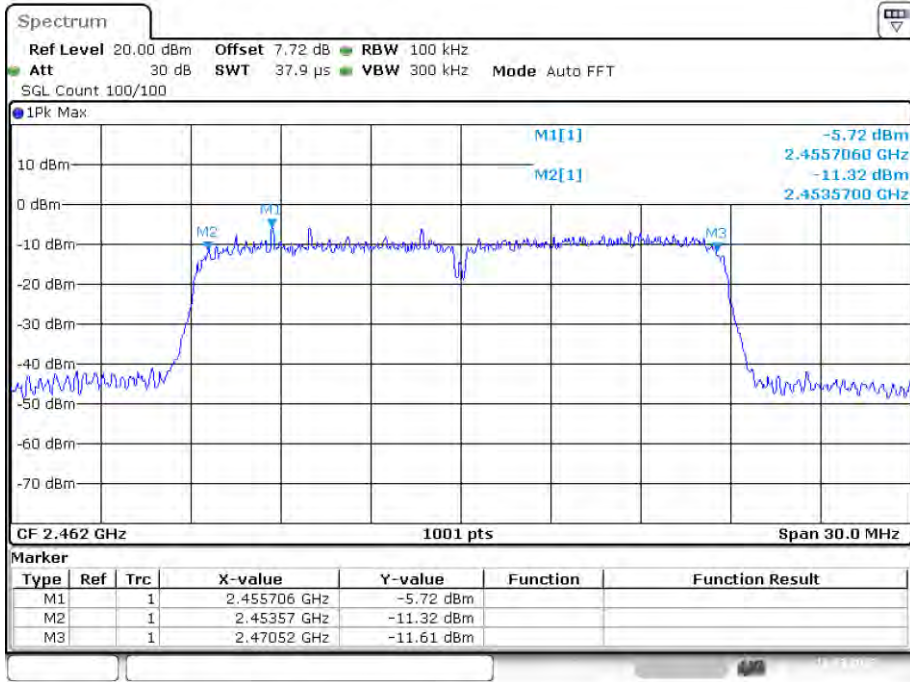
Date: 11.MAR.2023 06:57:27

-6dB Bandwidth NVNT n20 2437MHz Ant1



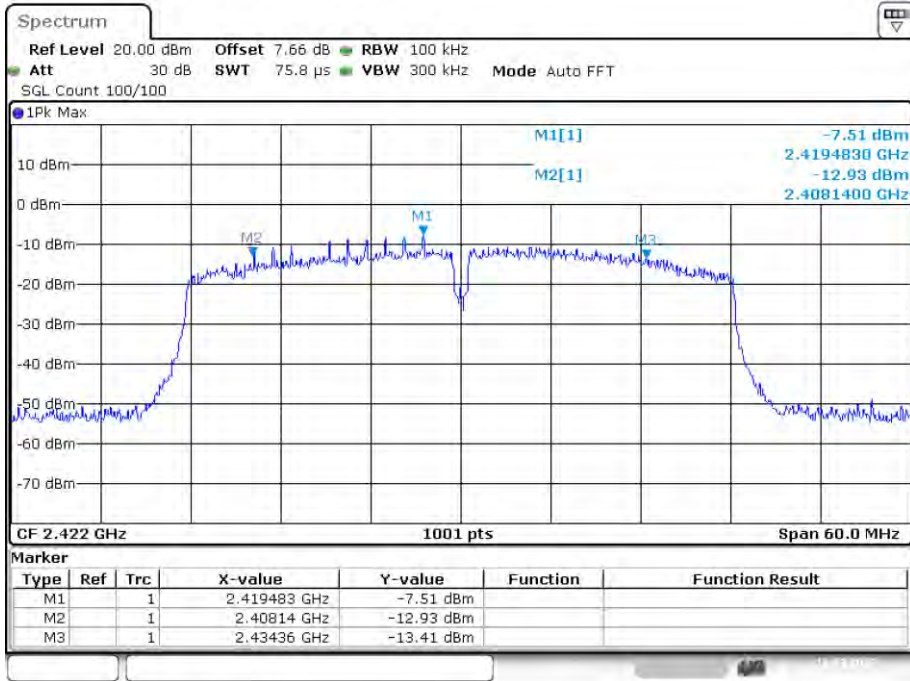
Date: 11.MAR.2023 09:02:22

-6dB Bandwidth NVNT n20 2462MHz Ant1



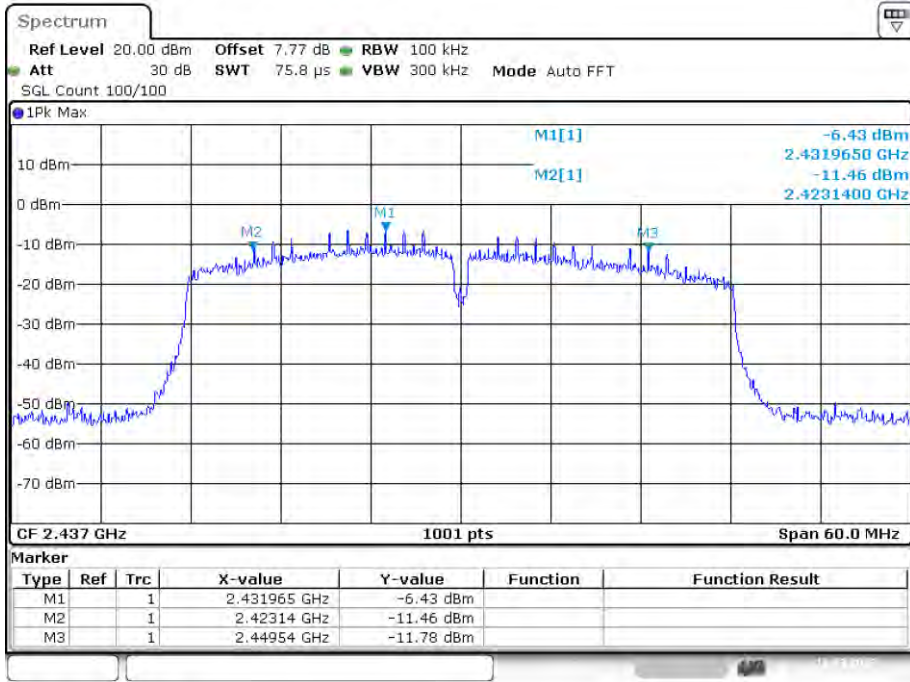
Date: 11.MAR.2023 09:05:12

-6dB Bandwidth NVNT n40 2422MHz Ant1



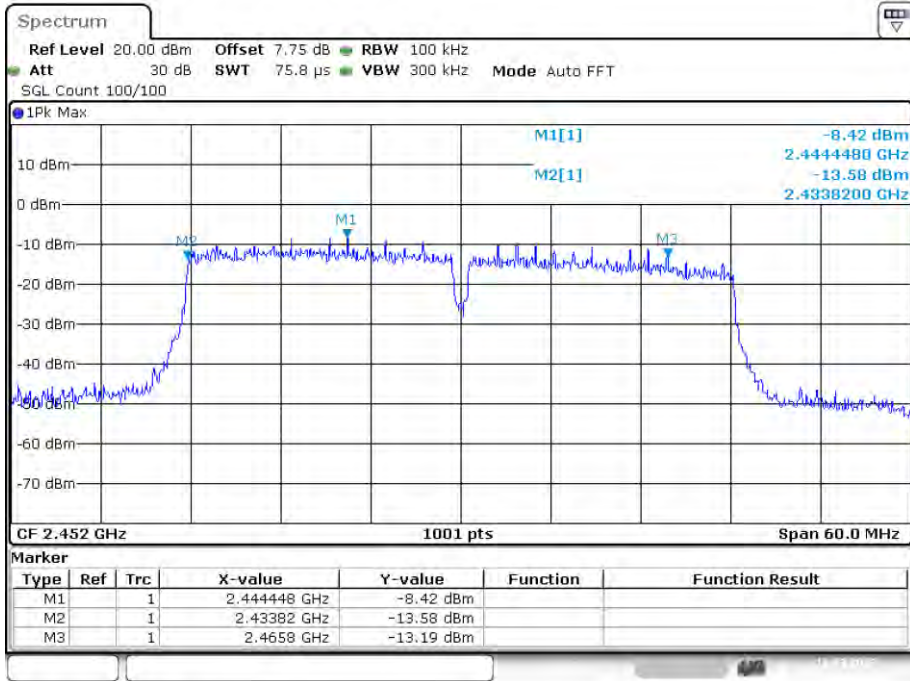
Date: 11.MAR.2023 09:09:32

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 11.MAR.2023 09:13:10

-6dB Bandwidth NVNT n40 2452MHz Ant1

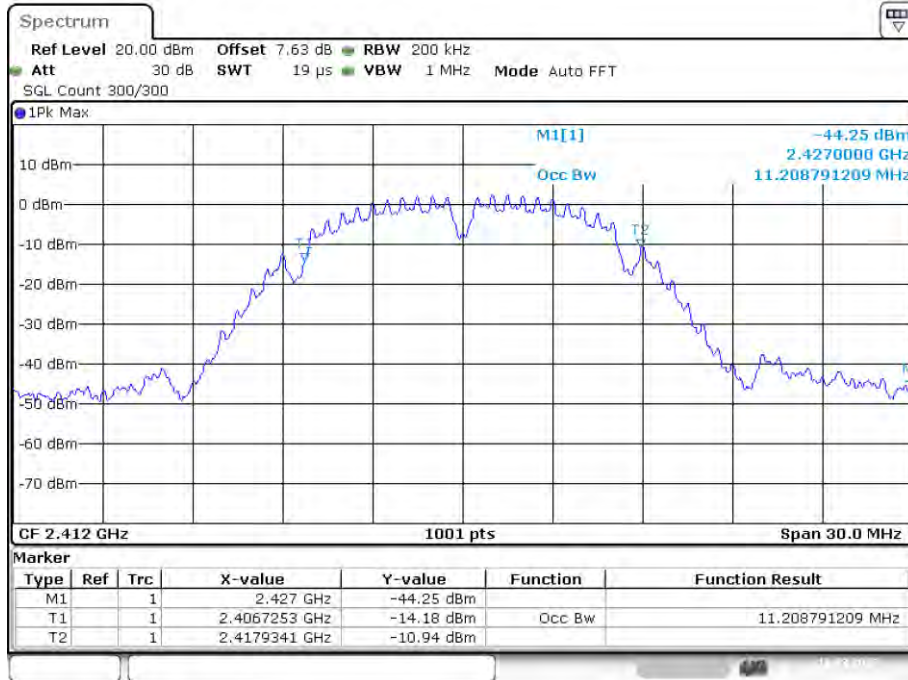


Date: 11.MAR.2023 09:16:47

Occupied Channel Bandwidth

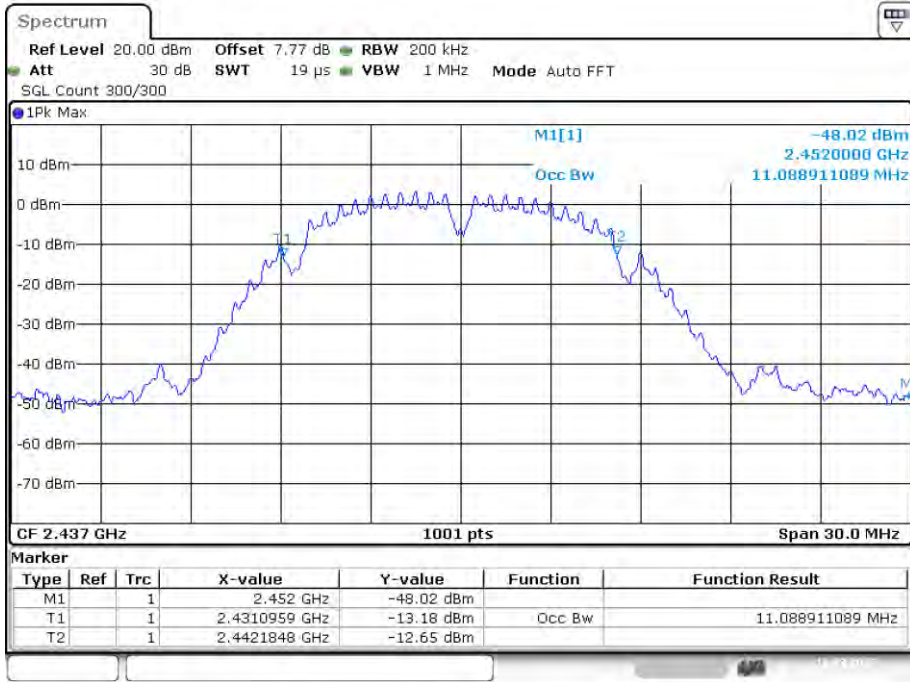
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	11.209
NVNT	b	2437	Ant1	11.089
NVNT	b	2462	Ant1	11.299
NVNT	g	2412	Ant1	16.244
NVNT	g	2437	Ant1	16.244
NVNT	g	2462	Ant1	16.304
NVNT	n20	2412	Ant1	17.203
NVNT	n20	2437	Ant1	17.083
NVNT	n20	2462	Ant1	17.263
NVNT	n40	2422	Ant1	35.365
NVNT	n40	2437	Ant1	35.305
NVNT	n40	2452	Ant1	35.964

OBW NVNT b 2412MHz Ant1



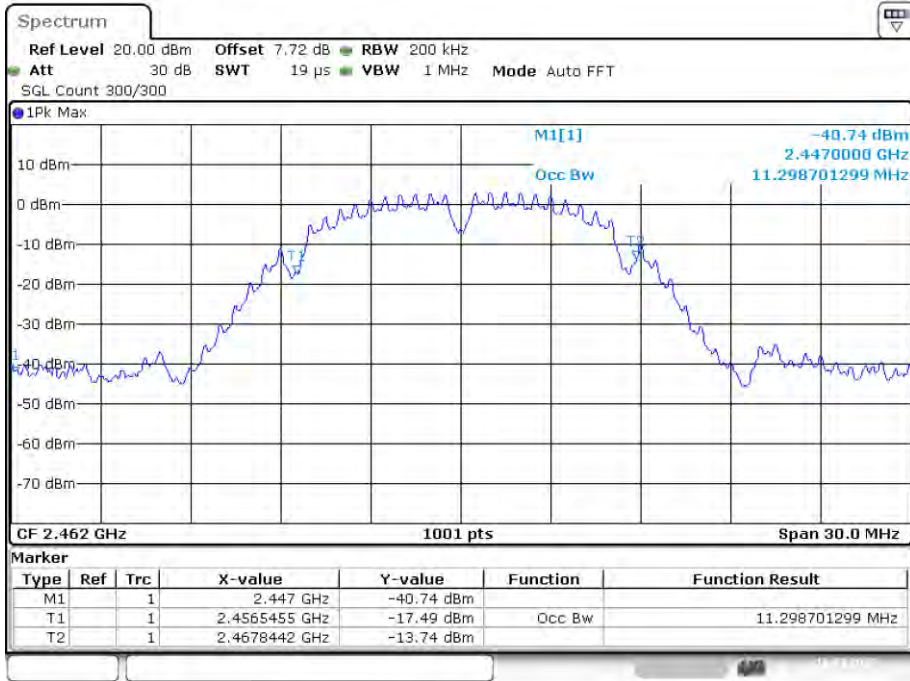
Date: 11.MAR.2023 06:39:26

OBW NVNT b 2437MHz Ant1



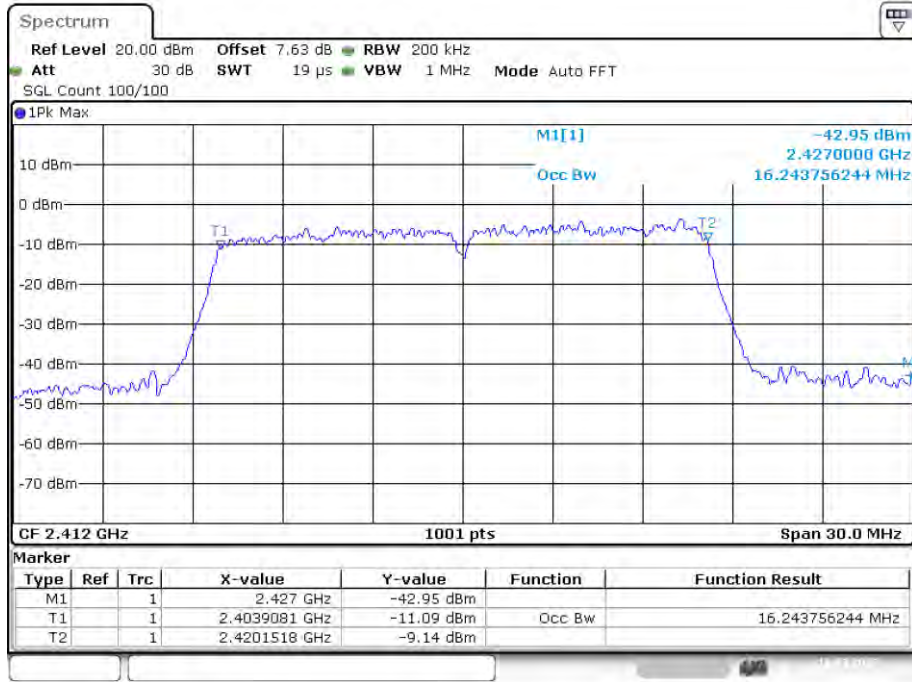
Date: 11.MAR.2023 06:43:21

OBW NVNT b 2462MHz Ant1



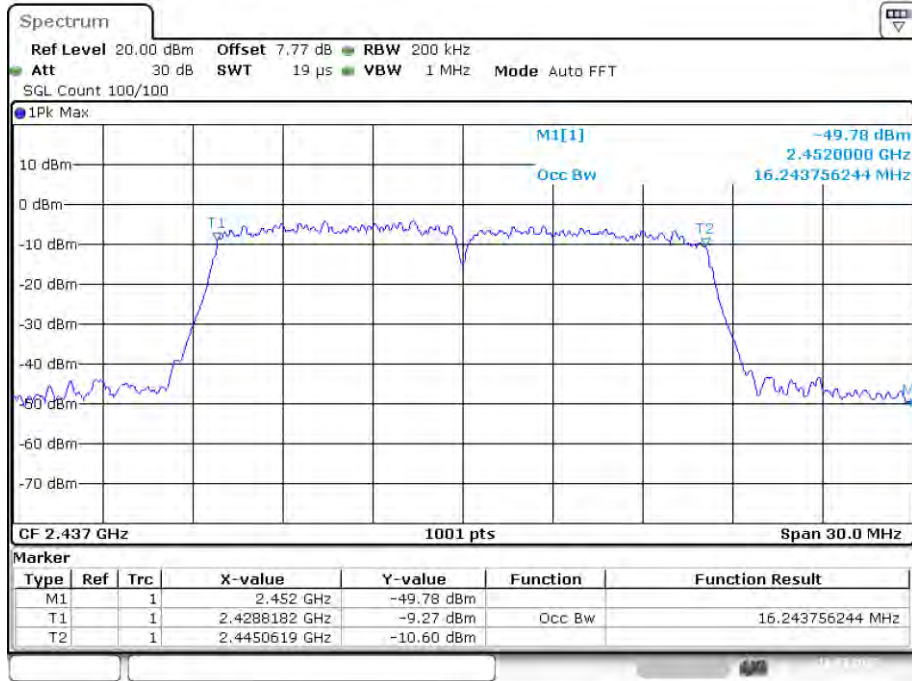
Date: 11.MAR.2023 06:45:20

OBW NVNT g 2412MHz Ant1



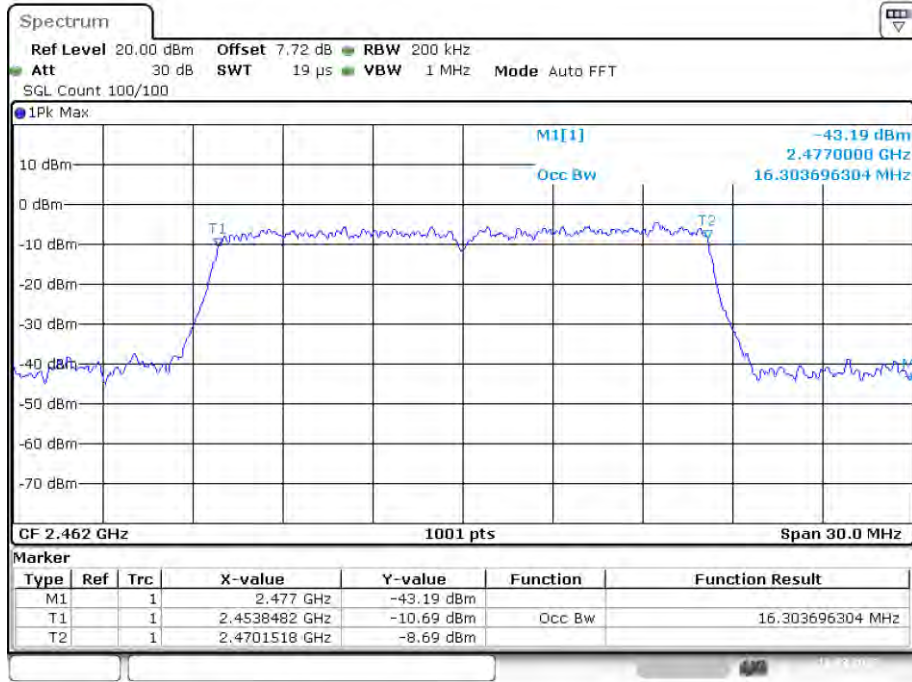
Date: 11.MAR.2023 06:48:06

OBW NVNT g 2437MHz Ant1



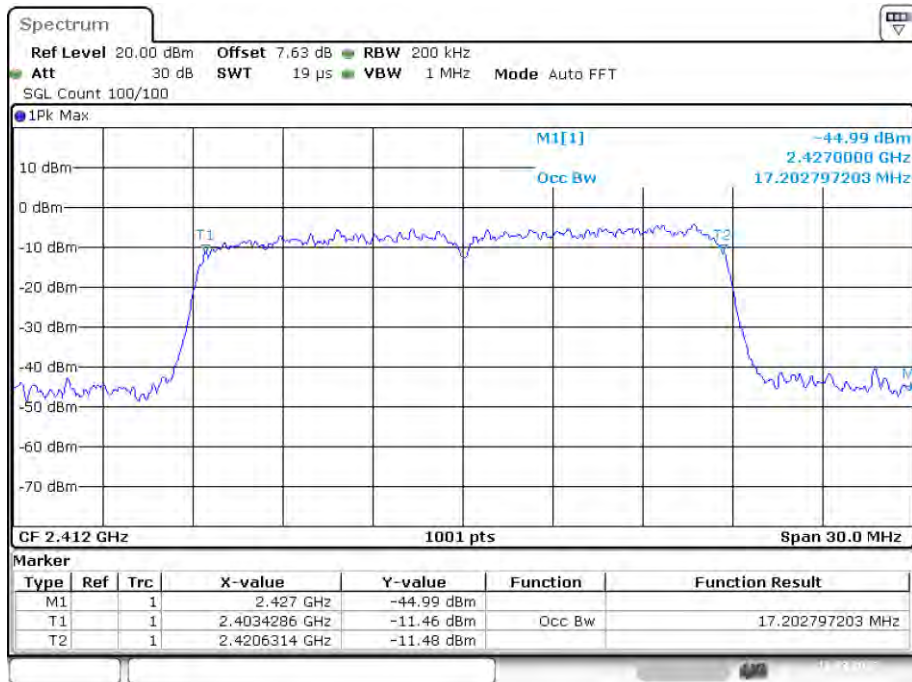
Date: 11.MAR.2023 06:50:53

OBW NVNT g 2462MHz Ant1



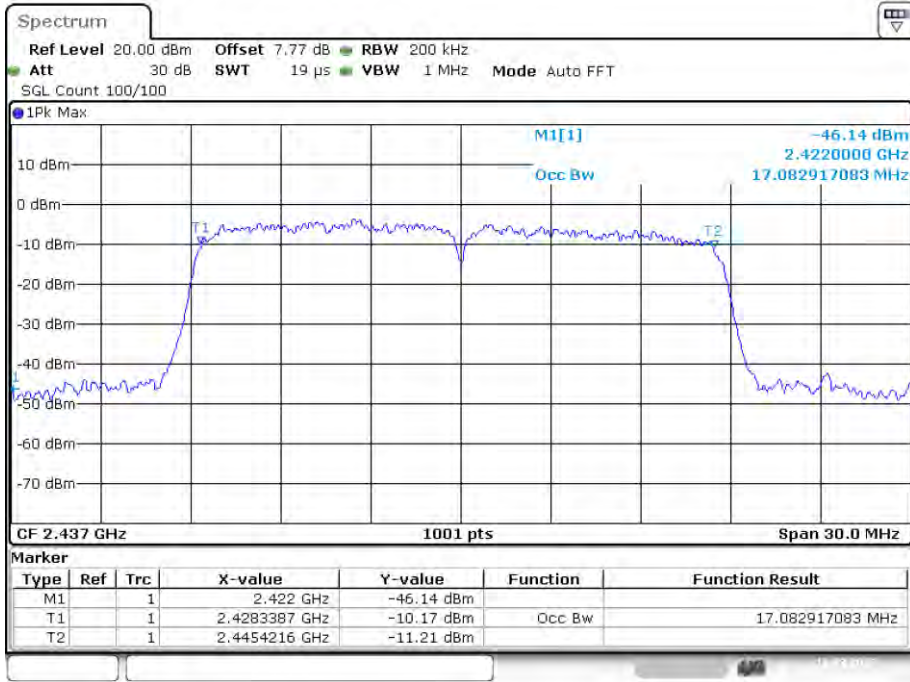
Date: 11.MAR.2023 06:54:30

OBW NVNT n20 2412MHz Ant1



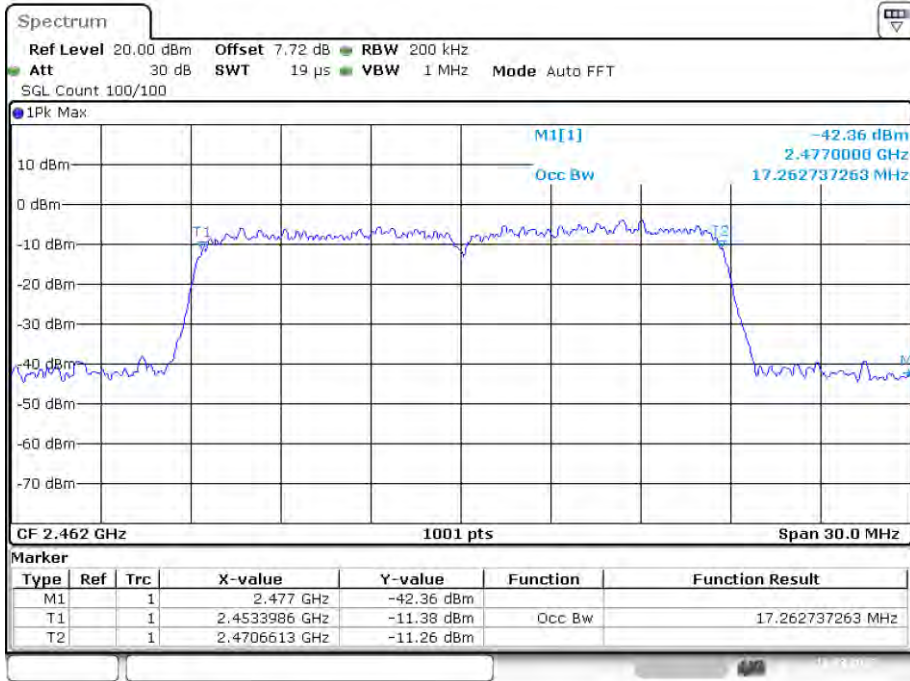
Date: 11.MAR.2023 06:57:15

OBW NVNT n20 2437MHz Ant1



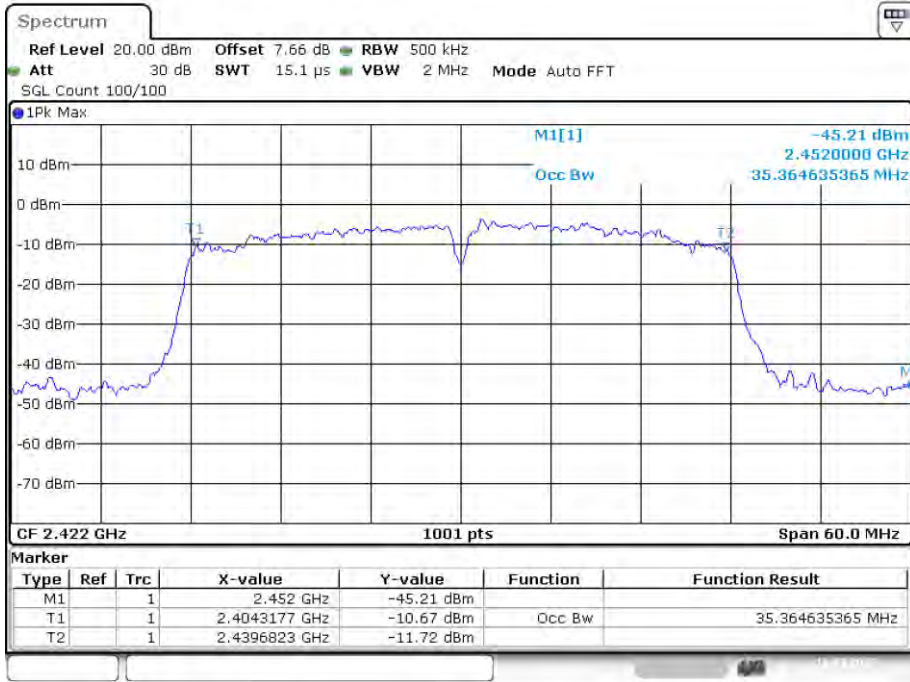
Date: 11.MAR.2023 09:02:08

OBW NVNT n20 2462MHz Ant1



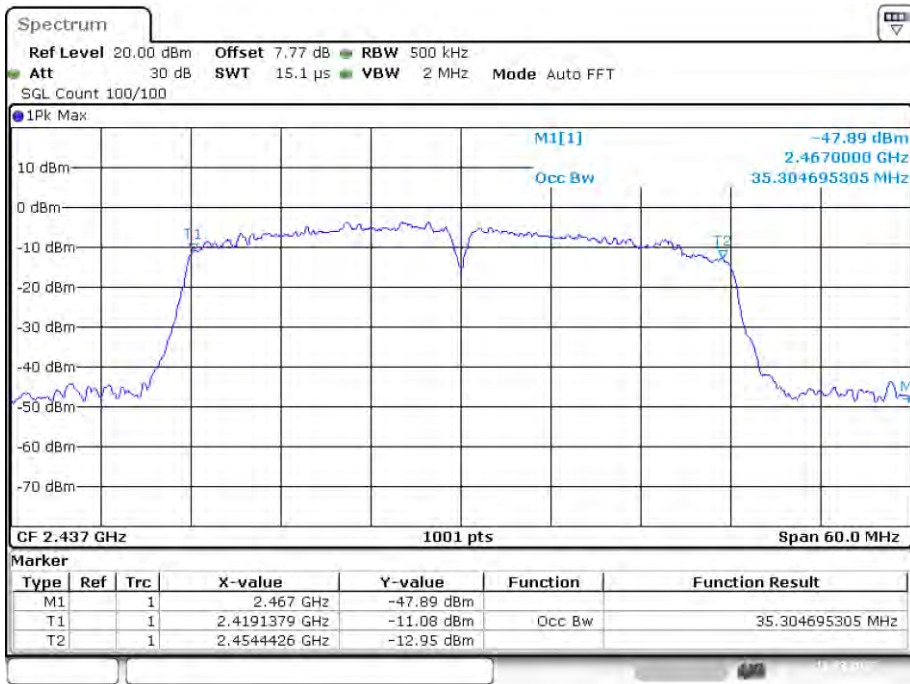
Date: 11.MAR.2023 09:04:58

OBW NVNT n40 2422MHz Ant1



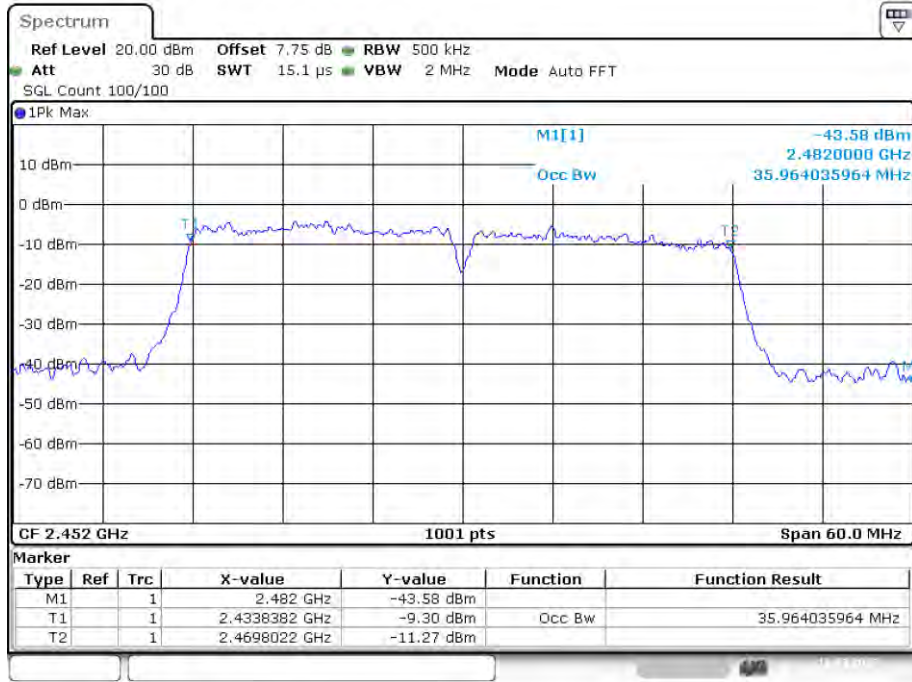
Date: 11.MAR.2023 09:09:16

OBW NVNT n40 2437MHz Ant1



Date: 11.MAR.2023 09:12:53

OBW NVNT n40 2452MHz Ant1



Date: 11.MAR.2023 09:16:29

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

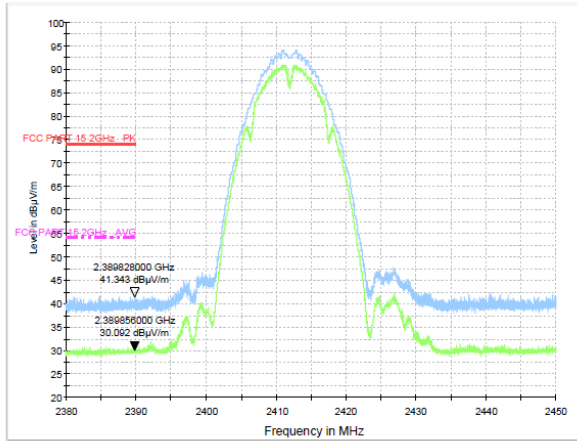
Same as 5.2.2.

8.4. Test Results

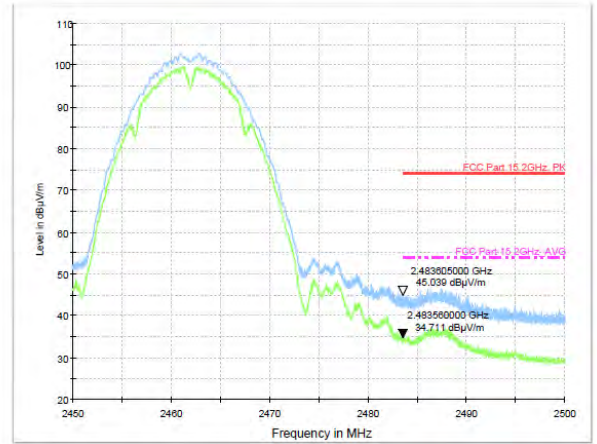
PASS.

Detailed information please see the following page.

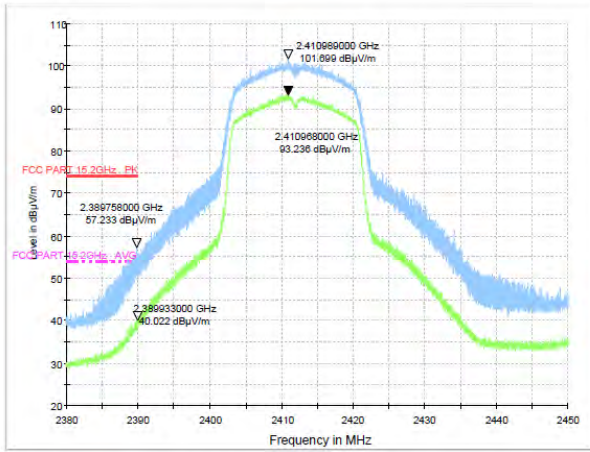
Test Mode: IEEE 802.11b-Low



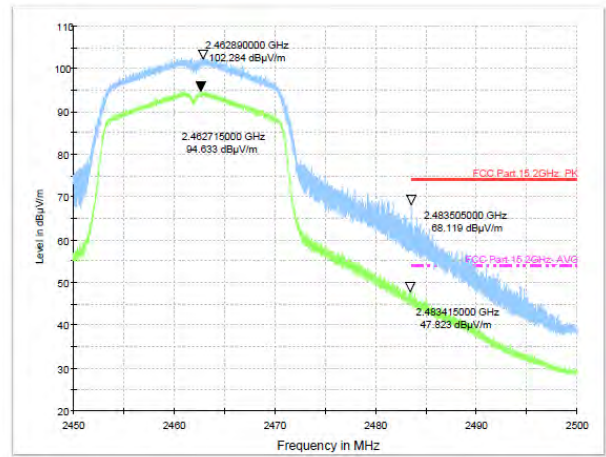
Test Mode: IEEE 802.11b-High



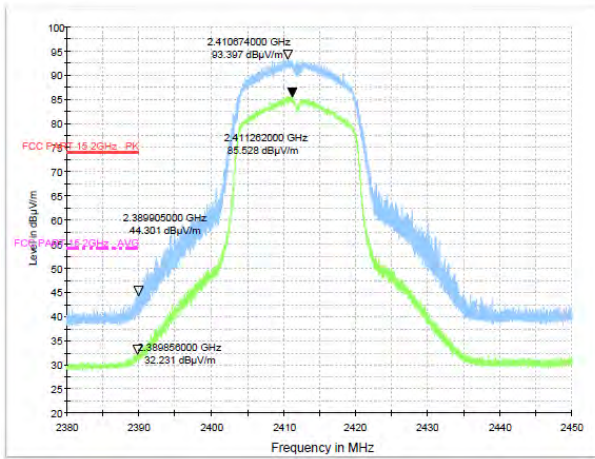
Test Mode: IEEE 802.11g-Low



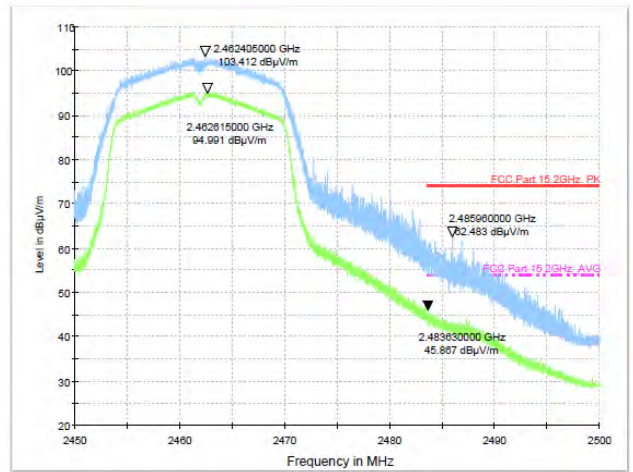
Test Mode: IEEE 802.11g-High



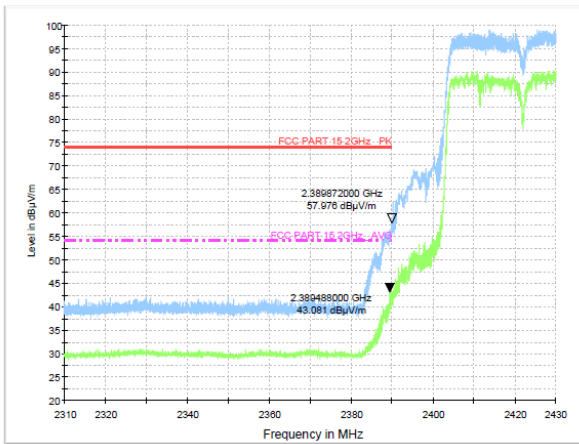
Test Mode: IEEE 802.11n20-Low



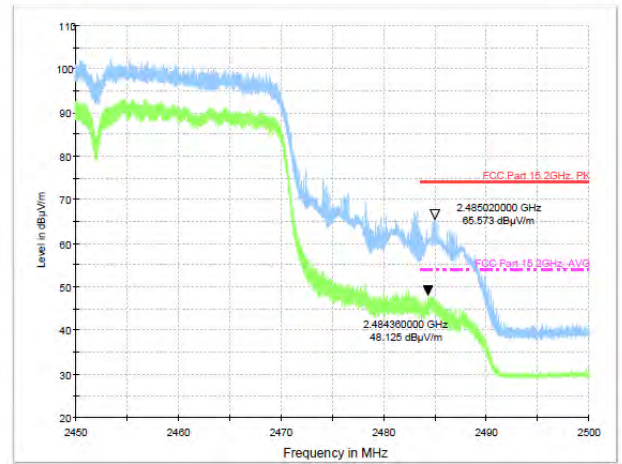
Test Mode: IEEE 802.11n20-High



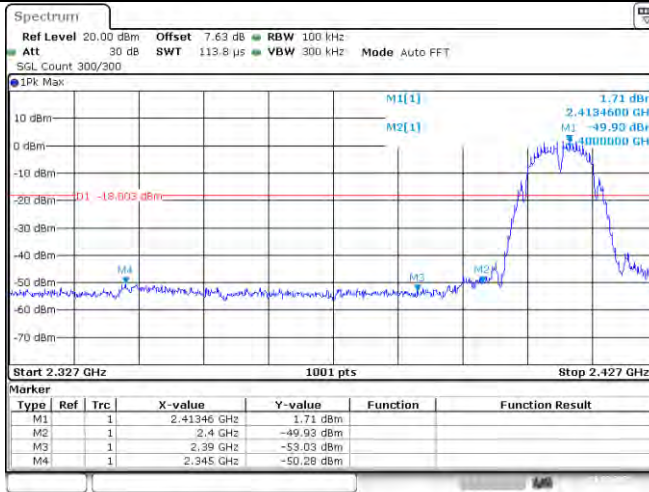
Test Mode: IEEE 802.11n40-Low



Test Mode: IEEE 802.11n40-High

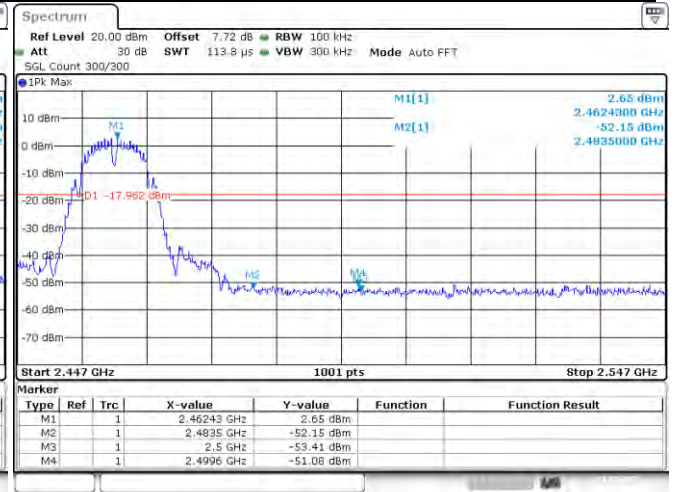


Test mode: 802.11b



Date: 11.MAR.2023 06:10:01

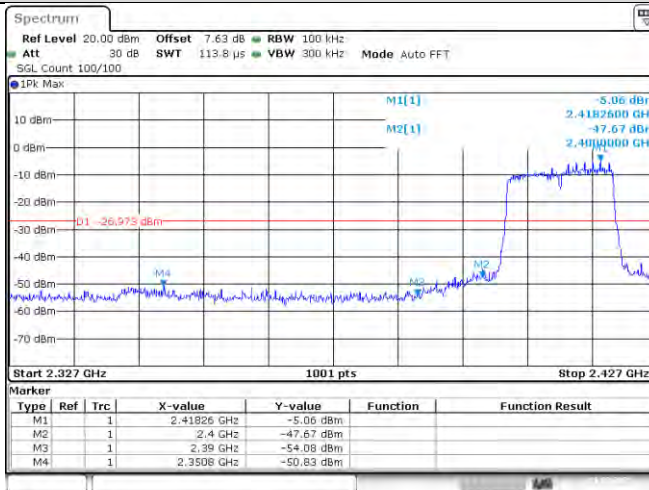
Lowest channel



Date: 11.MAR.2023 06:10:17

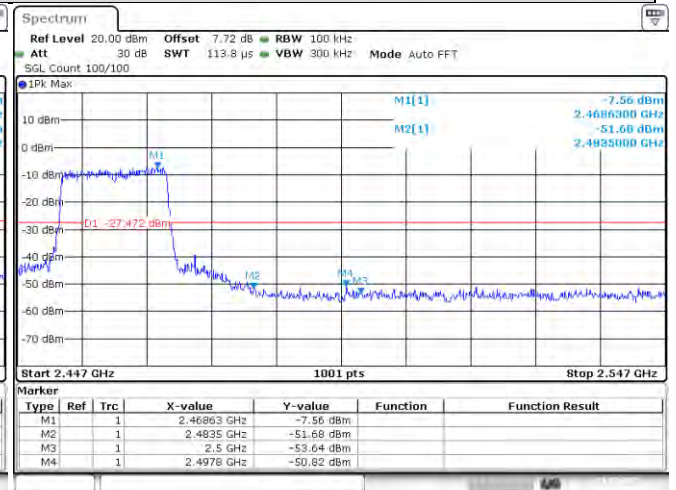
Highest channel

Test mode: 802.11g



Date: 11.MAR.2023 06:10:05

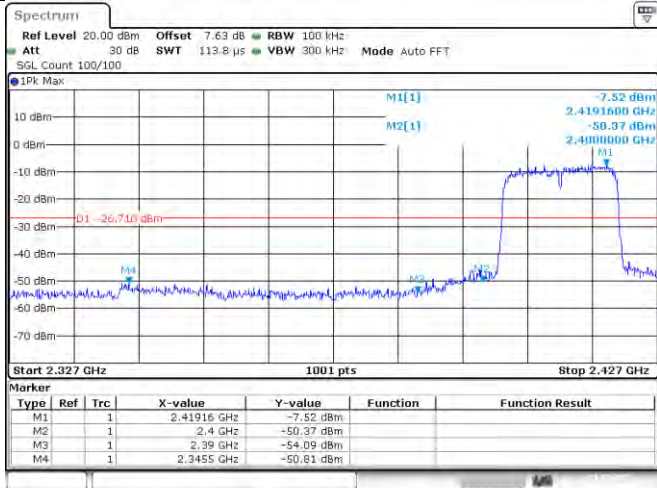
Lowest channel



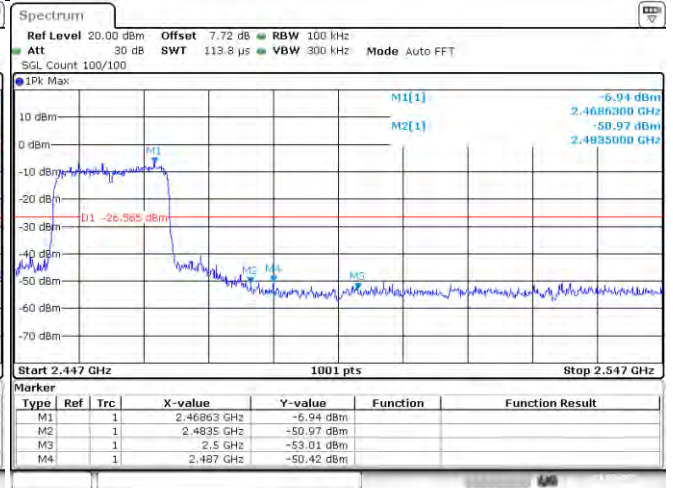
Date: 11.MAR.2023 06:10:02

Highest channel

Test mode: 802.11n(HT20)

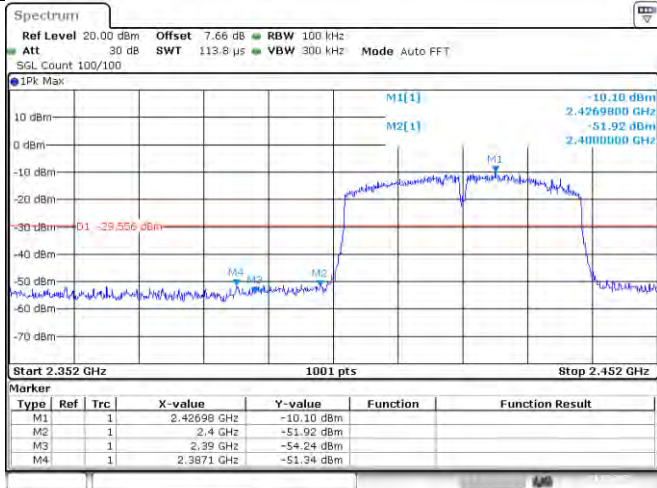


Lowest channel

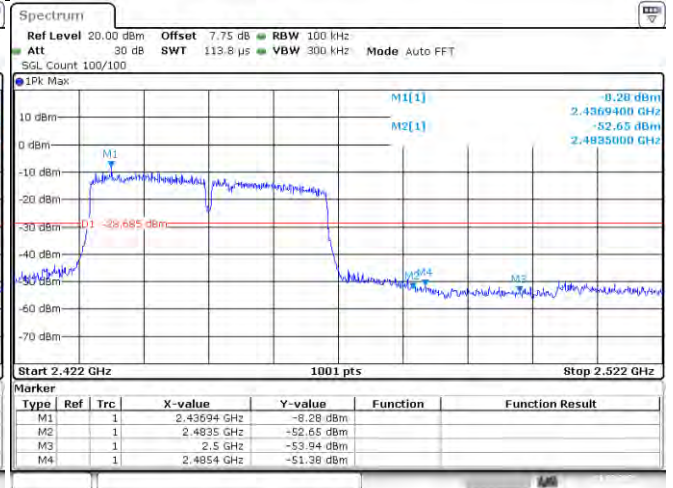


Highest channel

Test mode: 802.11n(HT40)



Lowest channel



Highest channel

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

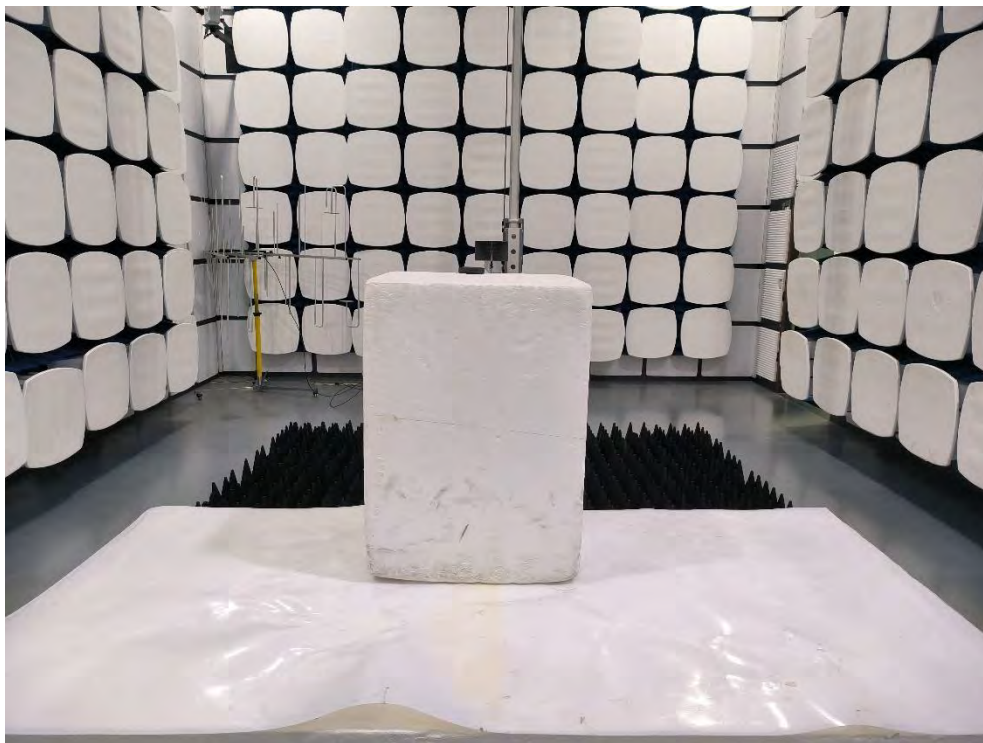
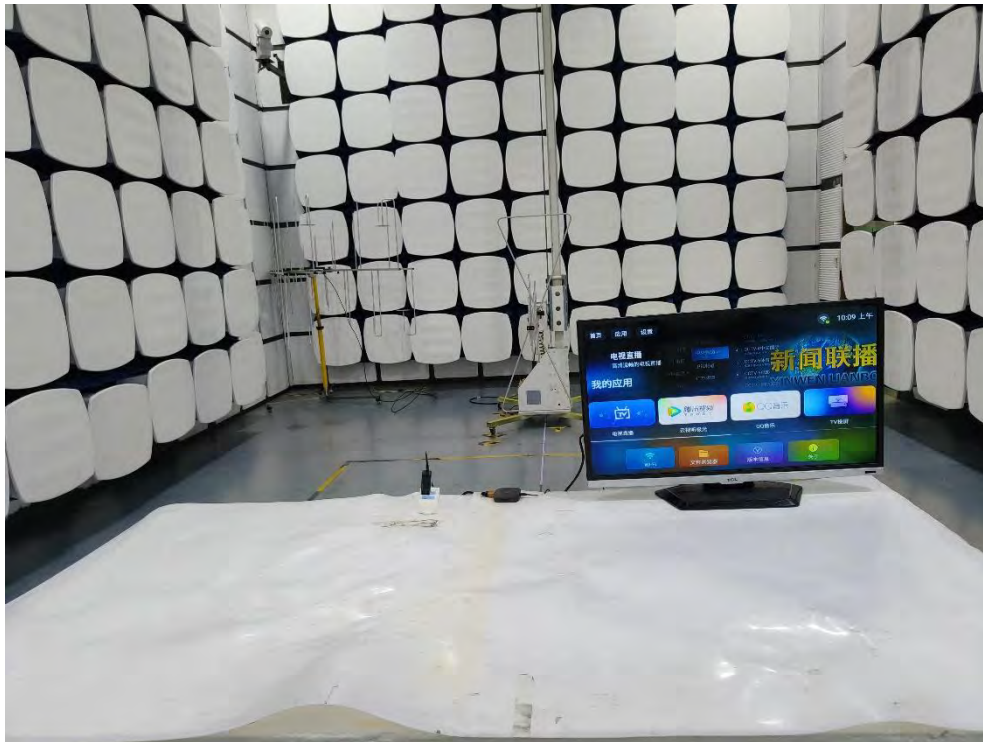
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

9.3. Results

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

10. TEST SETUP PHOTO

10.1. Photos of Radiated emission



10.2.Photos of Conducted Emission test



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