

TEST REPORT

Application No.: SZEM1809008379CR
Applicant: Creative Labs Pte. Ltd.
Address of Applicant: 31 International Business Park, #03-01 Creative Resource, Singapore 609921
Manufacturer: Creative Labs Pte. Ltd.
Address of Manufacturer: 31 International Business Park, #03-01 Creative Resource, Singapore 609921

Equipment Under Test (EUT):
EUT Name: Creative SXFI Theater Headset
Model No.: GH0380B
Trade mark: CREATIVE
FCC ID: 2AJIV-GH0380B
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2018-09-19
Date of Test: 2018-09-30 to 2019-04-15
Date of Issue: 2019-04-19



Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2019-04-19		Original

Authorized for issue by:			
			
		<hr/> Vincent Chen /Project Engineer	
			
		<hr/> Eric Fu /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Headset powered by Li-ion battery: 3.7V 1300mAh, Charged by DC 5V, 1A from Type-C port
Cable:	Type-C cable 200cm shielded Line in cable 159cm unshielded Microphone cable 17.5cm shielded
Operation Frequency	2403.35-2479.35MHz
Modulation Type	GFSK
Number of Channels	39
Channel Spacing	2MHz
Antenna Type	Chip Antenna
Antenna Gain	-1.18dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Router	NETGEAR	DGN2200	REF. No.SEA2200

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24



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Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2018-04-13	2019-04-12
				2019-04-12	2020-04-11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24



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Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
				2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
				2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2018-04-13	2019-04-12
				2019-04-12	2020-04-11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
				2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
				2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01
				2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07
				2019-04-04	2020-04-03



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6 Radio Spectrum Matter Test Results

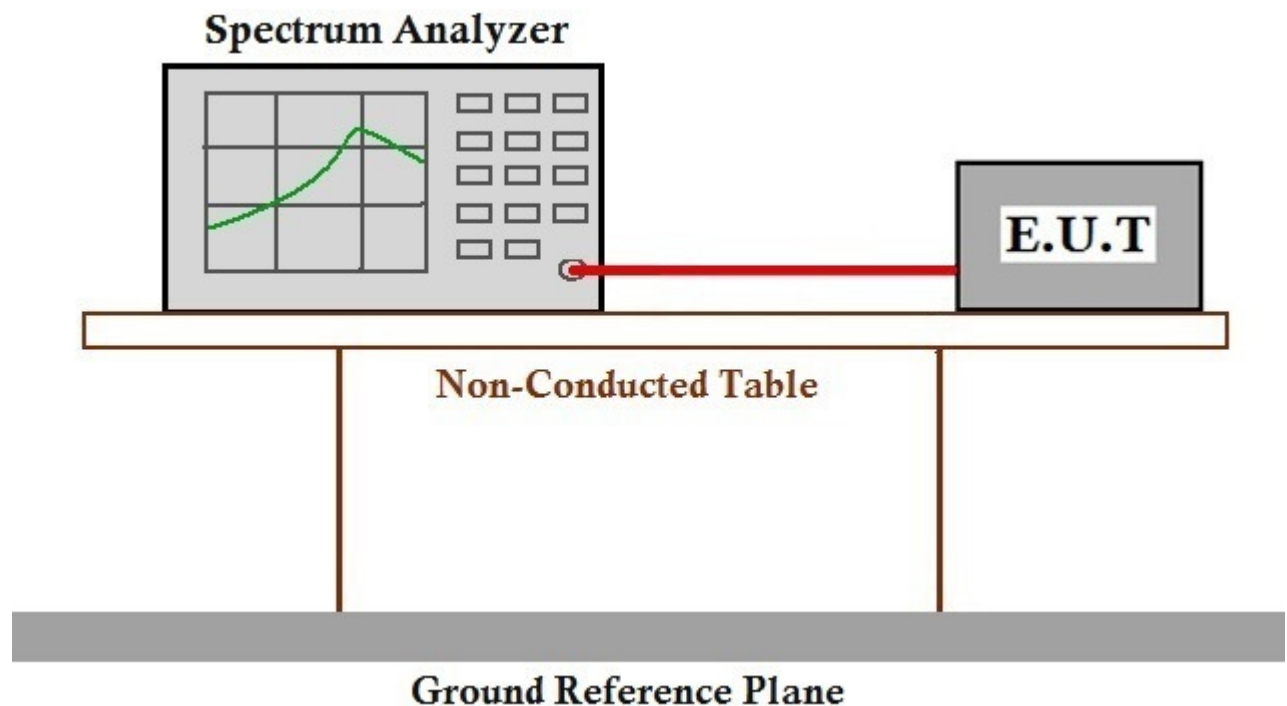
6.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10 (2013) Section 11.8.1
 Limit: ≥ 500 kHz

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.6 °C Humidity: 59.1 % RH Atmospheric Pressure: 1020 mbar
 Test mode c:TX mode_Keep the EUT in transmitting with GFSK modulation mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



6.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1) & 15.247(b)(3)
 Test Method: ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
 Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



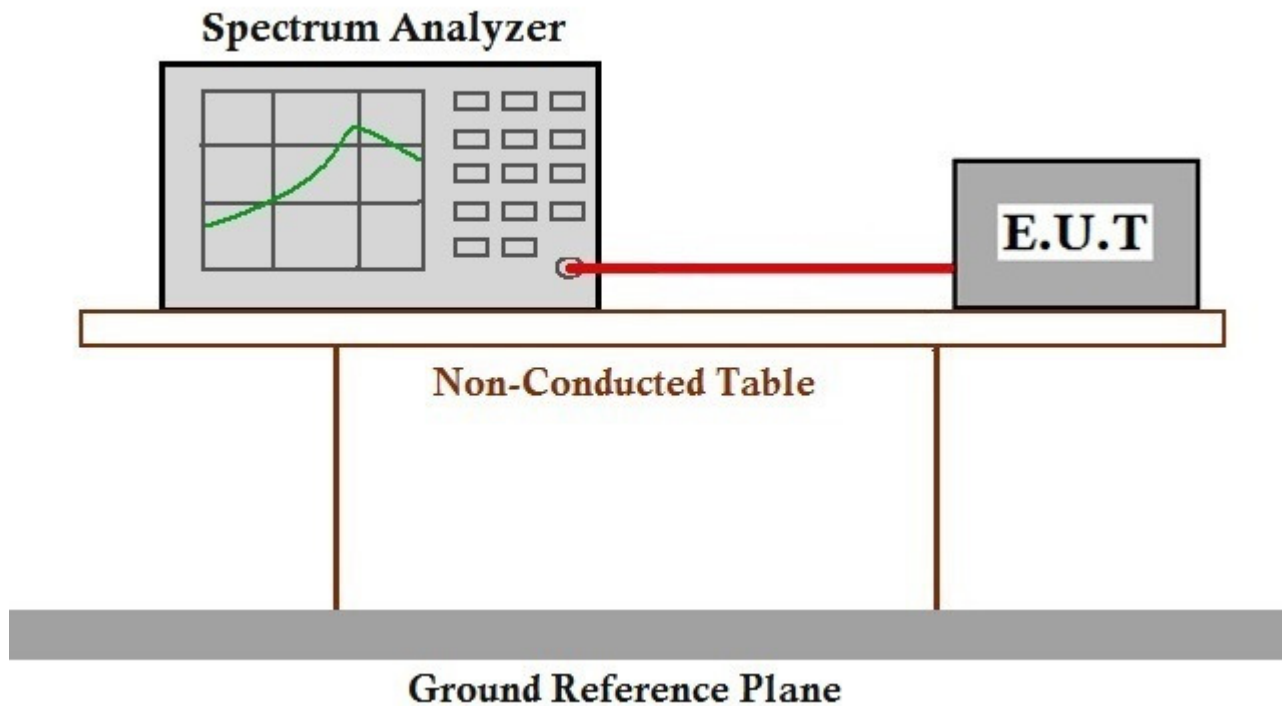
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6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 59.4 % RH Atmospheric Pressure: 1020 mbar
 Test mode c:TX mode_Keep the EUT in transmitting with GFSK modulation mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



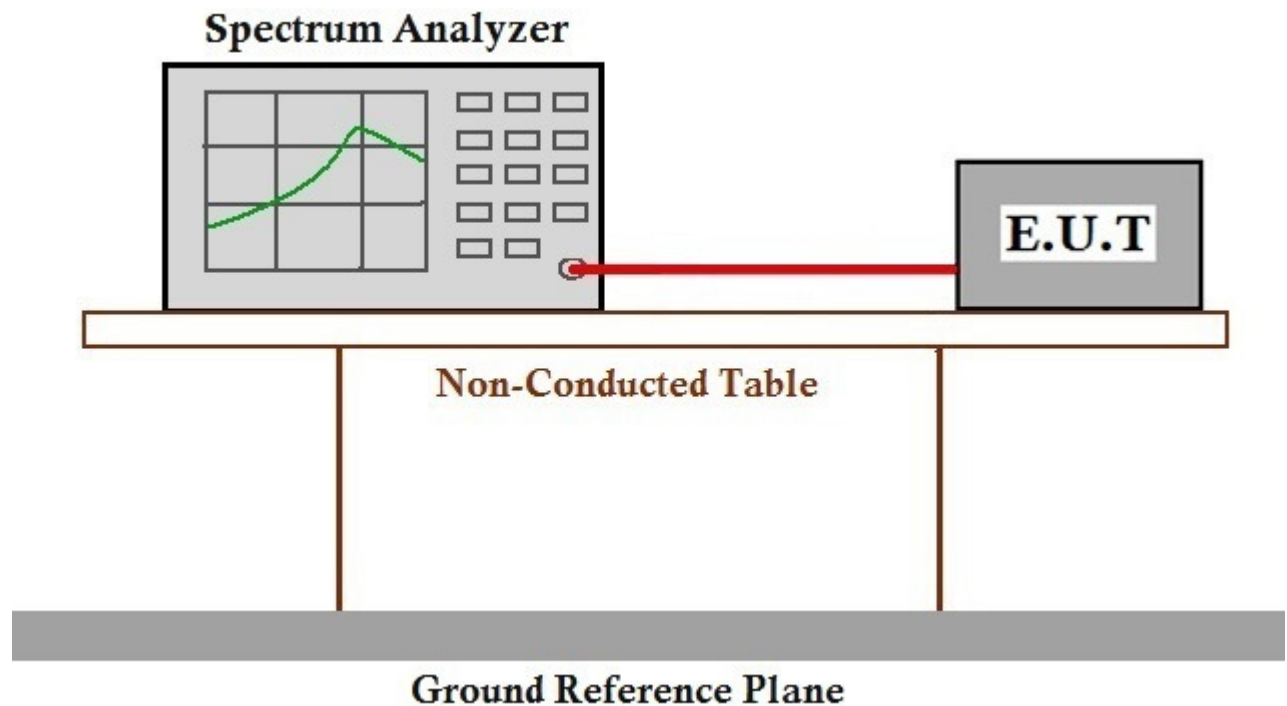
6.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2013) Section 11.10.2
 Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.6 °C Humidity: 58.9 % RH Atmospheric Pressure: 1020 mbar
 Test mode c:TX mode_Keep the EUT in transmitting with GFSK modulation mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



6.4 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



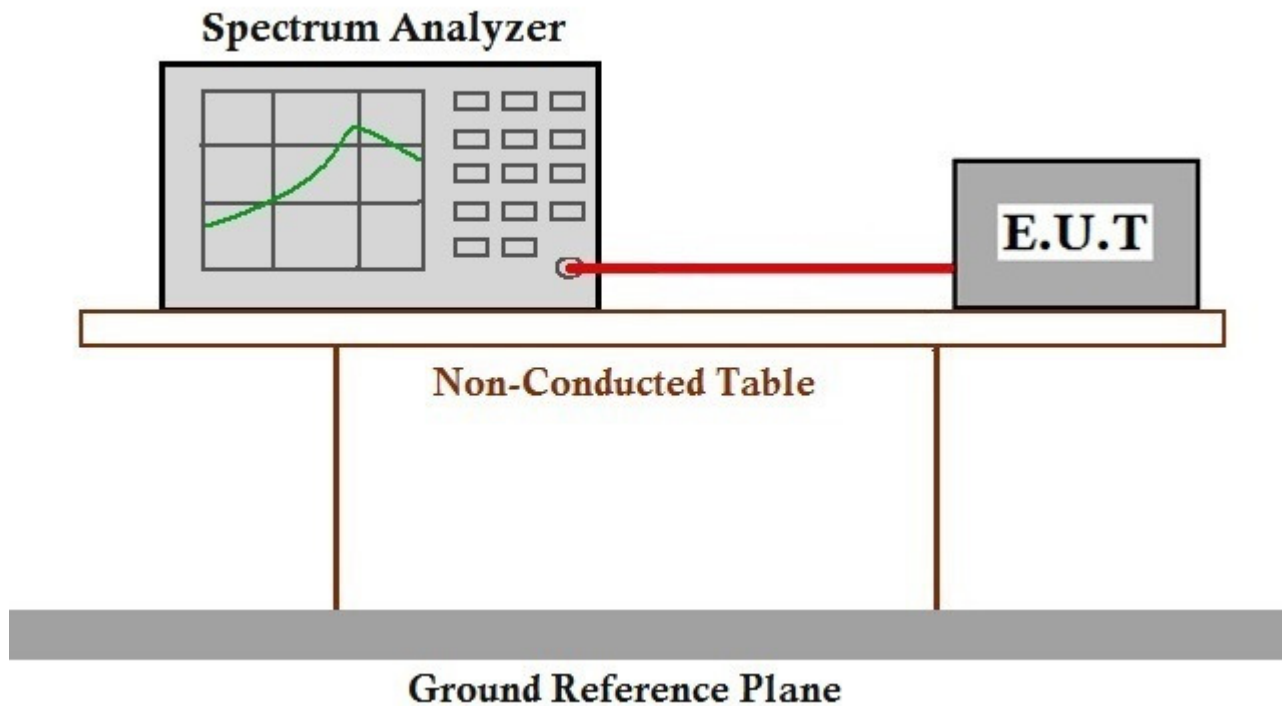
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6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 58.8 % RH Atmospheric Pressure: 1020 mbar
 Test mode c:TX mode_Keep the EUT in transmitting with GFSK modulation mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



6.5 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



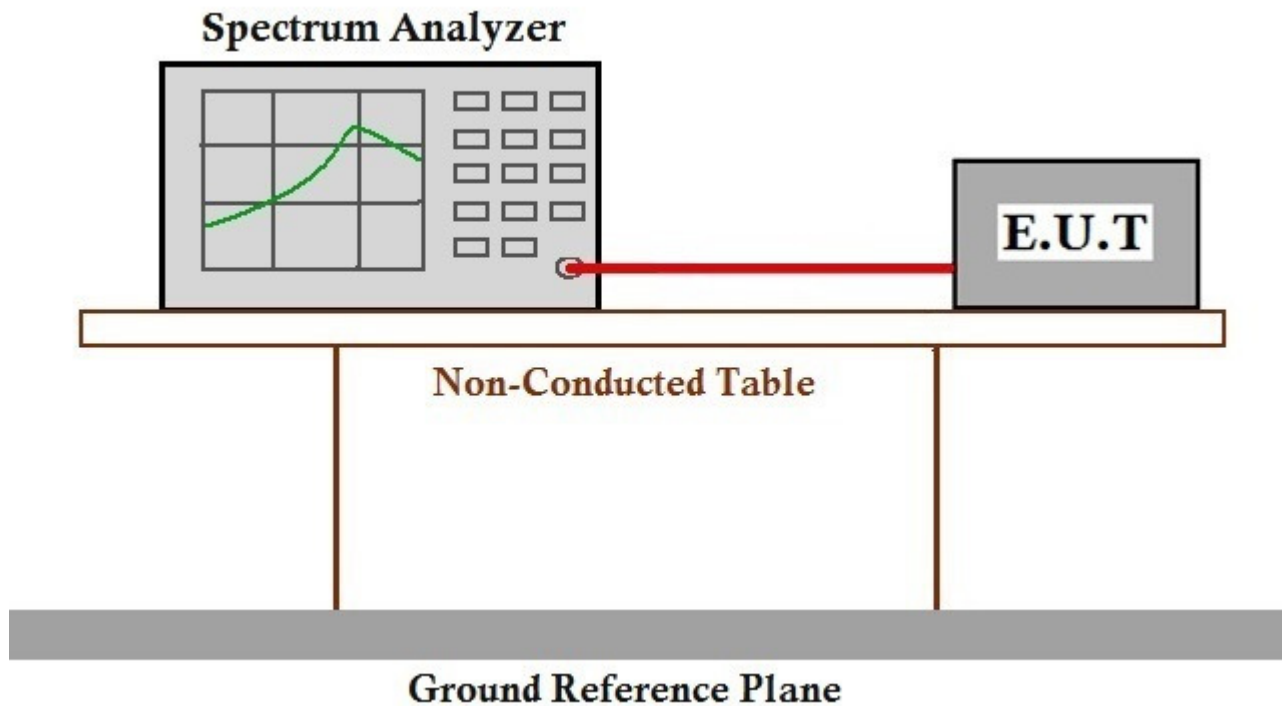
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6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 58.9 % RH Atmospheric Pressure: 1020 mbar
 Test mode c:TX mode_Keep the EUT in transmitting with GFSK modulation mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



6.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)
 Test Method: ANSI C63.10 (2013) Section 6.10.5
 Measurement Distance: 3m
 Limit:

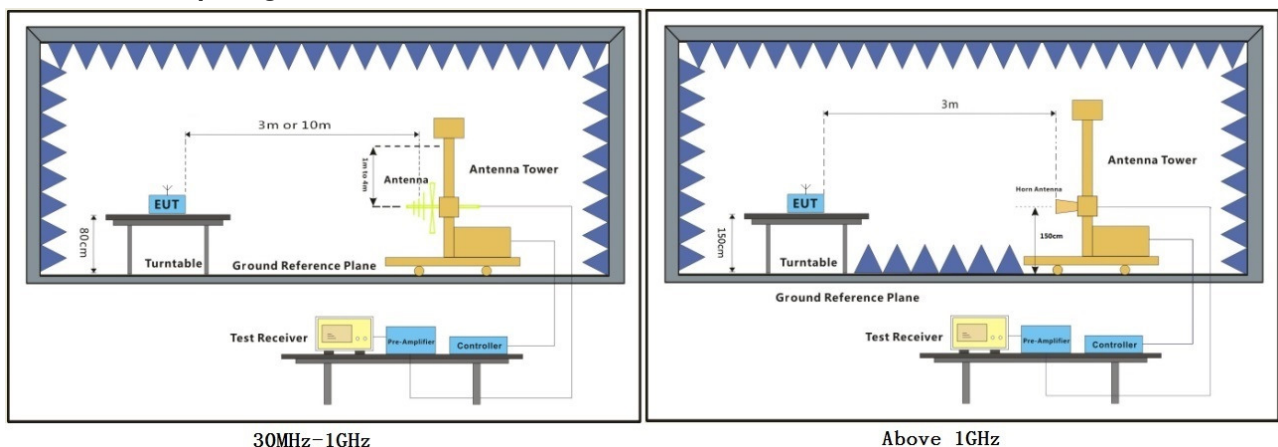
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.1 °C Humidity: 66.4 % RH Atmospheric Pressure: 1010 mbar
 Test mode c:TX mode_Keep the EUT in transmitting with GFSK modulation mode.

6.6.2 Test Setup Diagram



6.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

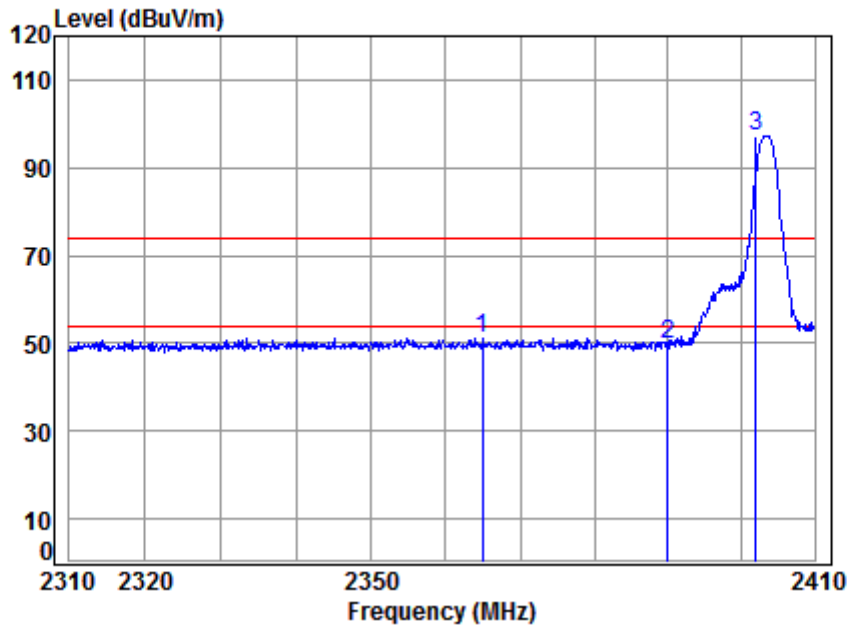
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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For Headset

Mode:c; Polarization:Horizontal; Channel:Low



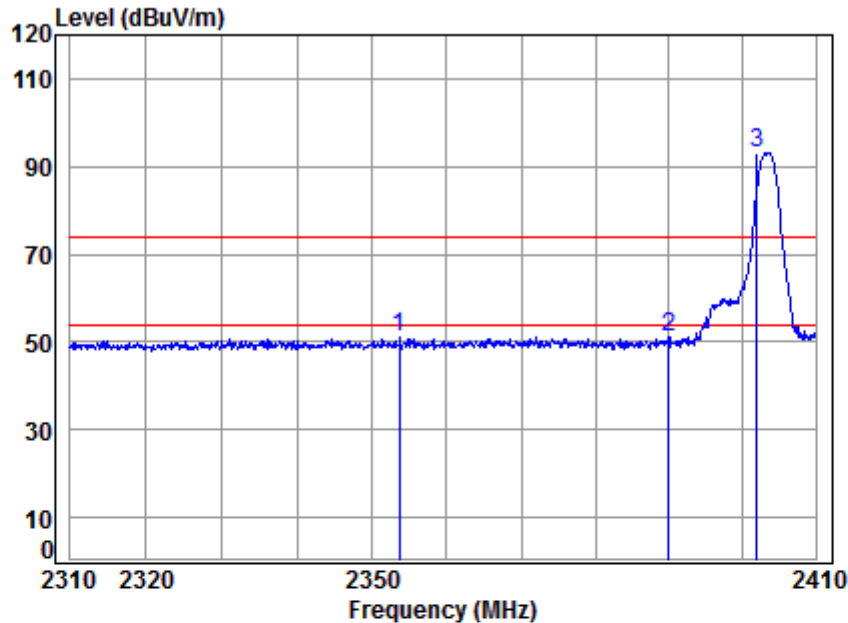
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 08379CR
 Mode : 2403.35 Band edge
 Note : Headset

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2364.976	5.44	28.48	41.16	58.54	51.30	74.00	-22.70 peak
2	2390.000	5.47	28.52	41.17	56.72	49.54	74.00	-24.46 peak
3 *	2402.000	5.49	28.54	41.18	104.56	97.41	74.00	23.41 peak



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Mode:c; Polarization:Vertical; Channel:Low



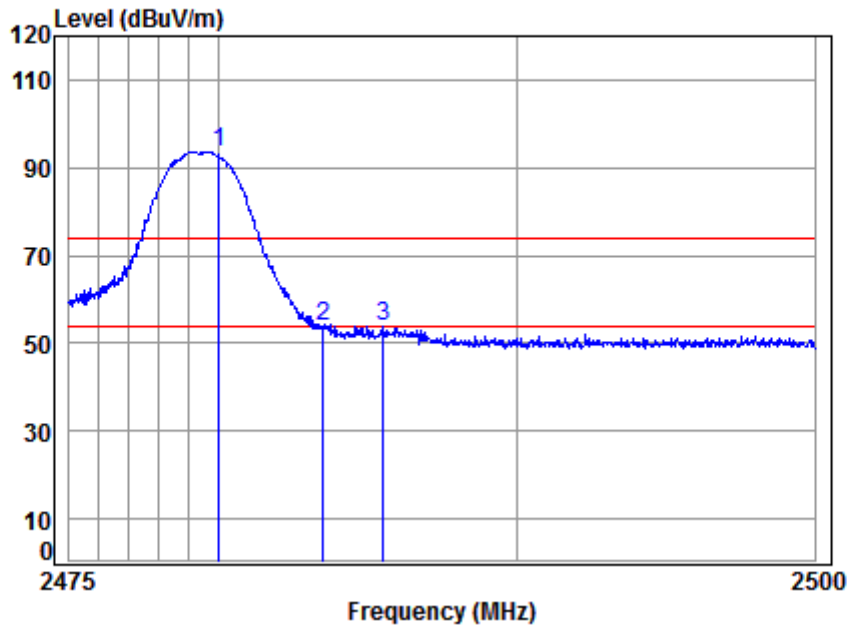
Site : chamber
 Condition: 3m VERTICAL
 Job No : 08379CR
 Mode : 2403.35 Band edge
 Note : Headset

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2353.678	5.43	28.46	41.16	58.44	51.17	74.00	-22.83 peak
2	2390.000	5.47	28.52	41.17	58.37	51.19	74.00	-22.81 peak
3 *	2402.000	5.49	28.54	41.18	100.26	93.11	74.00	19.11 peak



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Mode:c; Polarization:Horizontal; Channel:High



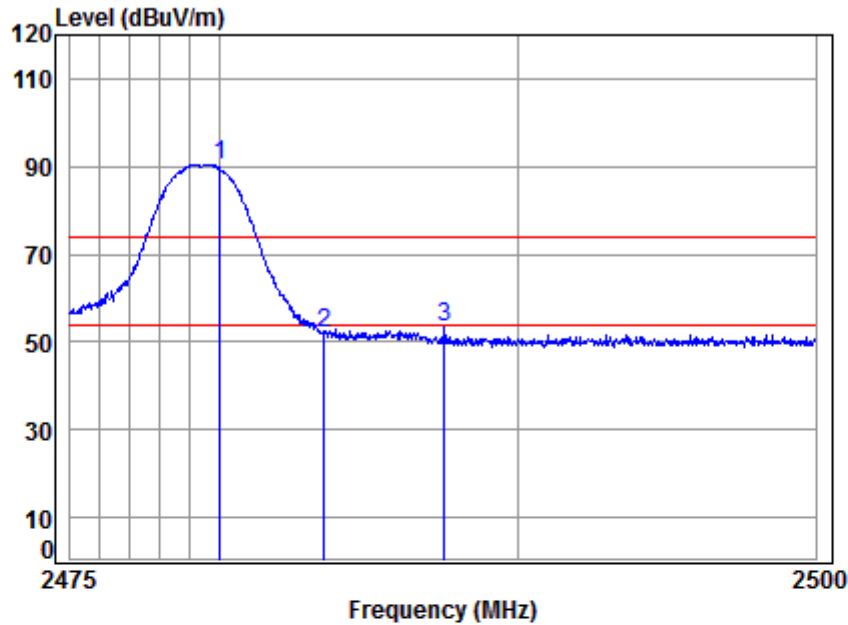
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 08379CR
 Mode : 2479.35 Band edge
 Note : Headset

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 2480.000	5.59	28.67	41.21	100.67	93.72	74.00	19.72	peak
2 2483.500	5.60	28.67	41.21	60.68	53.74	74.00	-20.26	peak
3 2485.519	5.60	28.68	41.21	60.61	53.68	74.00	-20.32	peak



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Mode:c; Polarization:Vertical; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 08379CR
 Mode : 2479.35 Band edge
 Note : Headset

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 2480.000	5.59	28.67	41.21	97.41	90.46	74.00	16.46	peak
2 2483.500	5.60	28.67	41.21	59.08	52.14	74.00	-21.86	peak
3 2487.519	5.60	28.68	41.21	60.11	53.18	74.00	-20.82	peak



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6.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)
 Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6
 Measurement Distance: 3m
 Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



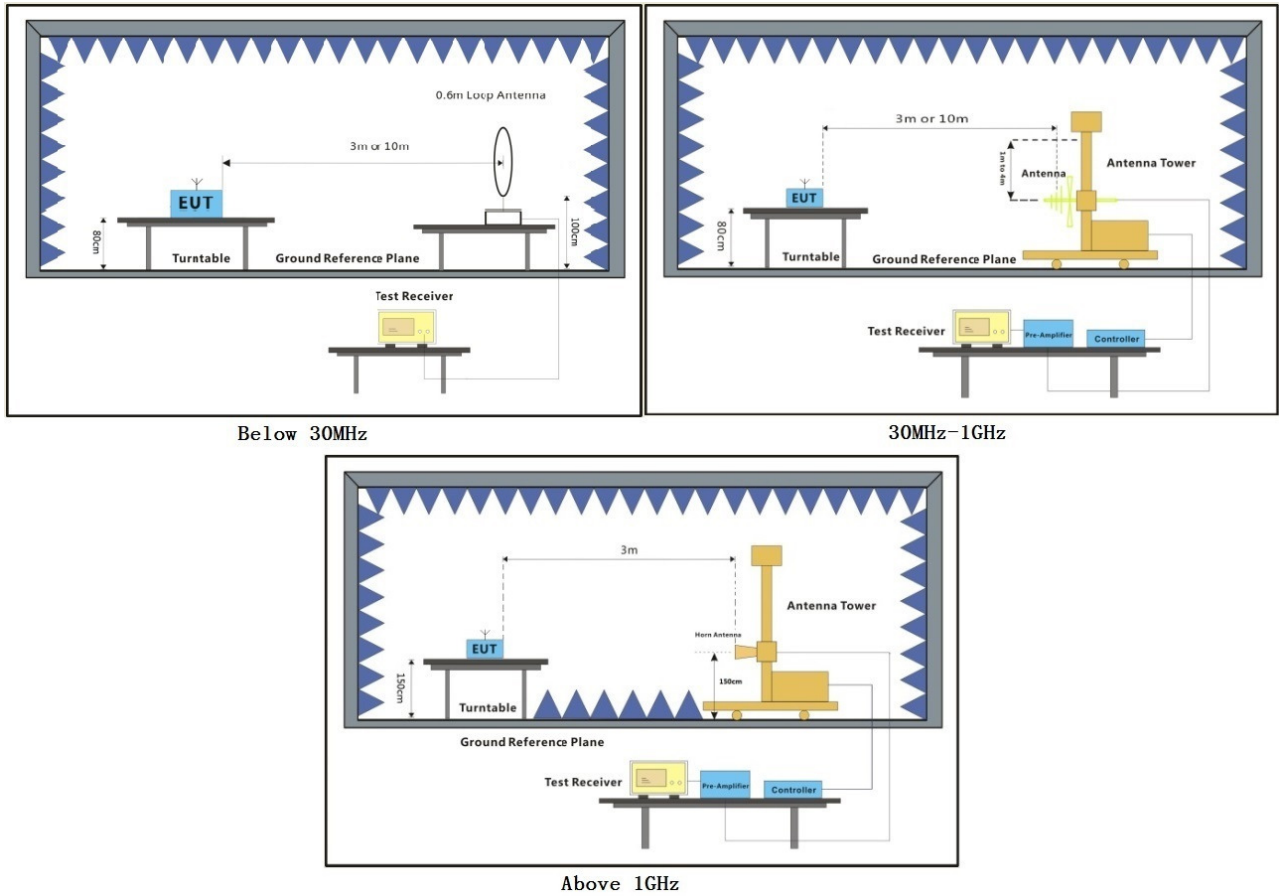
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6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 65.1 % RH Atmospheric Pressure: 1010 mbar
 Test mode c:TX mode_Keep the EUT in transmitting with GFSK modulation mode.

6.7.2 Test Setup Diagram



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6.7.3 Measurement Procedure and Data

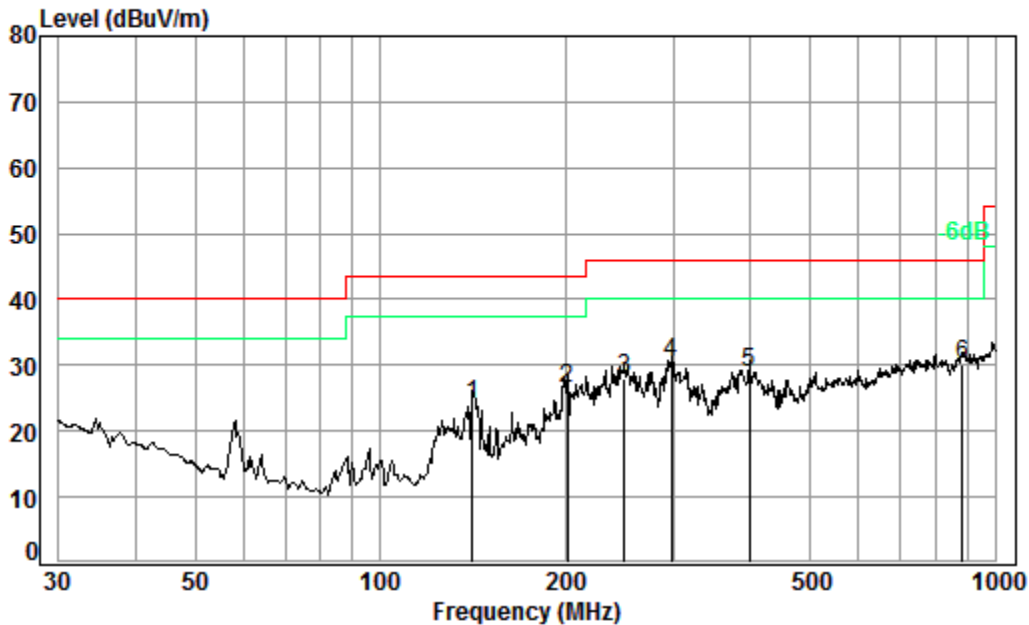
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



30MHz~1GHz
 Mode:c; Polarization:Horizontal;



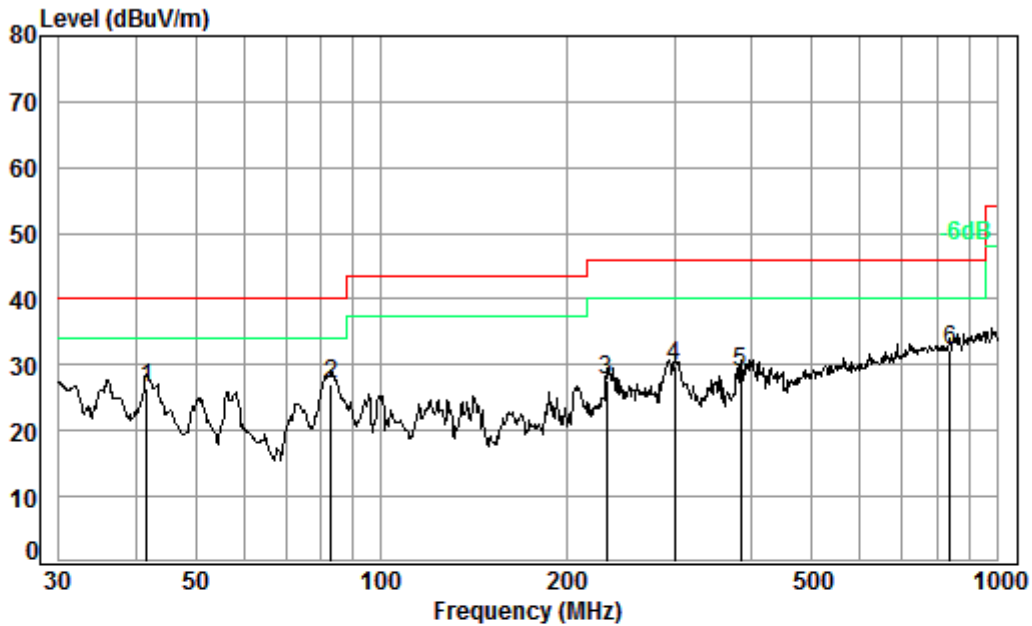
Condition: 3m HORIZONTAL
 Job No. : 8379CR
 Test mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	141.33	1.30	13.83	27.13	36.05	24.05	43.50	-19.45
2	201.39	1.41	16.55	26.90	35.40	26.46	43.50	-17.04
3	249.43	1.67	18.94	26.76	34.17	28.02	46.00	-17.98
4 pp	297.22	1.89	19.49	26.65	35.62	30.35	46.00	-15.65
5	399.03	2.20	22.38	27.18	31.36	28.76	46.00	-17.24
6	884.50	3.54	29.61	27.14	24.00	30.01	46.00	-15.99



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Mode:c; Polarization:Vertical;



Condition: 3m VERTICAL
 Job No. : 8379CR
 Test mode: c

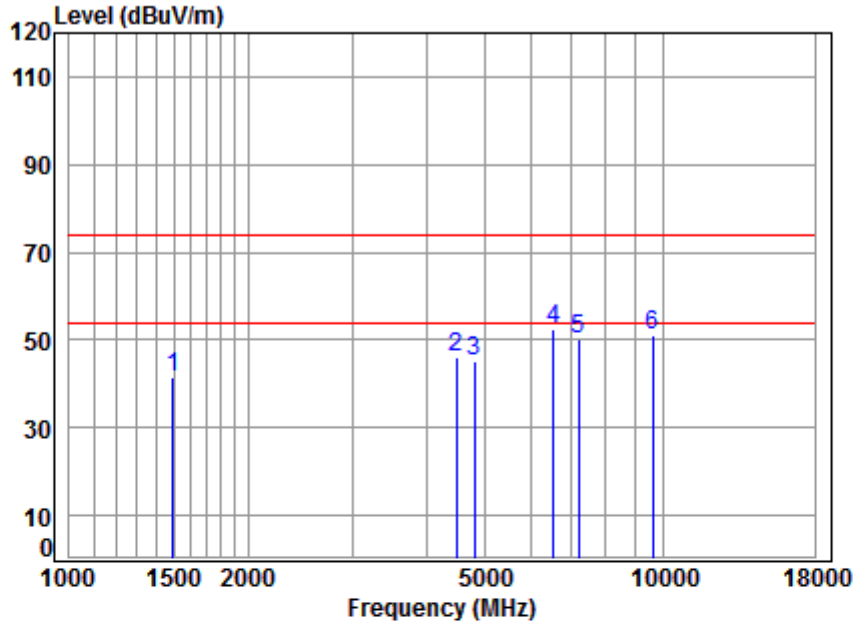
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.71	0.64	16.88	27.43	36.50	26.59	40.00	-13.41
2	82.94	1.10	12.34	27.37	41.10	27.17	40.00	-12.83
3	232.53	1.59	18.22	26.80	34.61	27.62	46.00	-18.38
4	299.32	1.90	19.57	26.64	34.95	29.78	46.00	-16.22
5	383.93	2.16	22.00	27.11	31.82	28.87	46.00	-17.13
6	839.18	3.36	29.03	27.40	27.15	32.14	46.00	-13.86



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Above 1GHz
For Headset

Mode:c; Polarization:Horizontal; Channel:Low



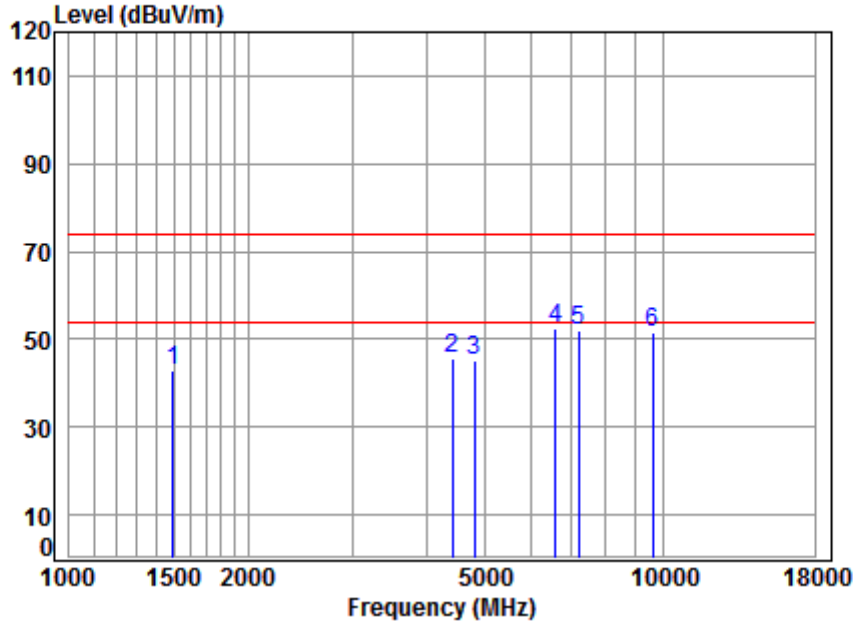
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 08379CR
 Mode : 2403.35 TX SE
 Note : Headset

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1494.455	5.46	25.78	40.70	50.76	41.30	74.00	-32.70 peak
2	4482.150	7.54	33.57	43.29	48.31	46.13	74.00	-27.87 peak
3	4806.700	7.89	33.98	43.61	47.12	45.38	74.00	-28.62 peak
4	6545.263	11.41	35.63	42.37	47.94	52.61	74.00	-21.39 peak
5	7210.050	10.07	36.07	41.85	46.12	50.41	74.00	-23.59 peak
6	9613.400	10.75	37.67	38.42	41.24	51.24	74.00	-22.76 peak



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Mode:c; Polarization:Vertical; Channel:Low



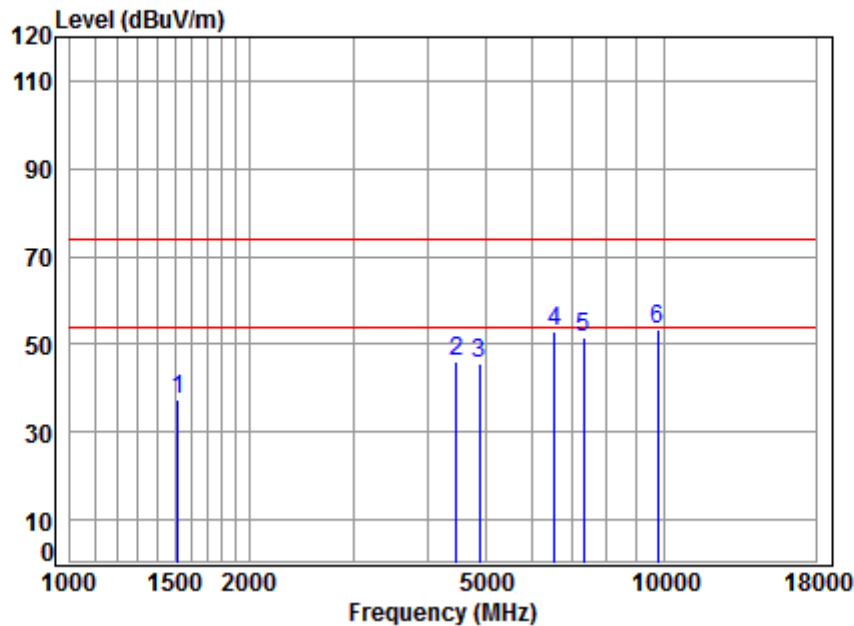
Site : chamber
 Condition: 3m VERTICAL
 Job No : 08379CR
 Mode : 2403.35 TX SE
 Note : Headset

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1494.455	5.46	25.78	40.70	52.47	43.01	74.00	-30.99 peak
2	4417.841	7.47	33.46	43.22	48.07	45.78	74.00	-28.22 peak
3	4806.700	7.89	33.98	43.61	47.06	45.32	74.00	-28.68 peak
4	6602.265	11.24	35.66	42.32	48.09	52.67	74.00	-21.33 peak
5	7210.050	10.07	36.07	41.85	47.62	51.91	74.00	-22.09 peak
6	9613.400	10.75	37.67	38.42	41.44	51.44	74.00	-22.56 peak



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Mode:c; Polarization:Horizontal; Channel:Middle



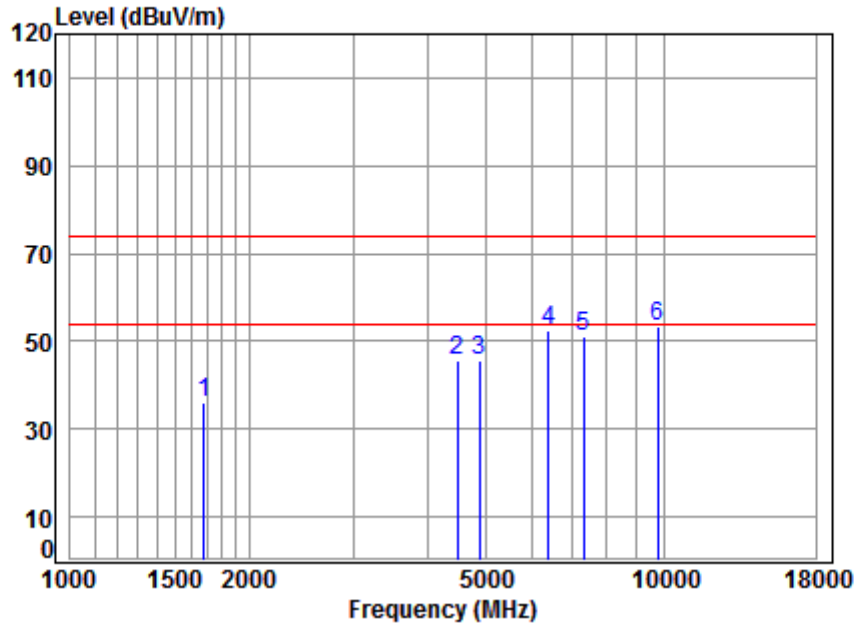
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 08379CR
 Mode : 2441.35 TX SE
 Note : Headset

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5.46	25.87	40.72	46.89	37.50	74.00	-36.50	peak
2	7.53	33.55	43.27	48.19	46.00	74.00	-28.00	peak
3	7.97	34.06	43.69	47.31	45.65	74.00	-28.35	peak
4	11.41	35.63	42.37	48.39	53.06	74.00	-20.94	peak
5	10.04	36.16	41.77	47.19	51.62	74.00	-22.38	peak
6	10.82	37.76	38.17	42.85	53.26	74.00	-20.74	peak



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Mode:c; Polarization:Vertical; Channel: Middle



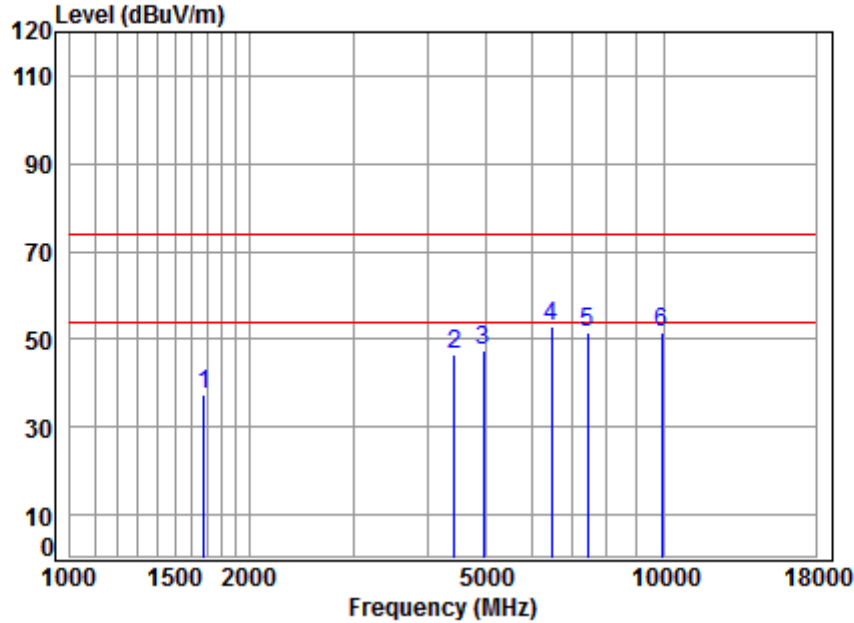
Site : chamber
 Condition: 3m VERTICAL
 Job No : 08379CR
 Mode : 2441.35 TX SE
 Note : Headset

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5.25	26.60	40.82	45.09	36.12	74.00	-37.88	peak
2	7.55	33.59	43.30	47.73	45.57	74.00	-28.43	peak
3	7.97	34.06	43.69	47.16	45.50	74.00	-28.50	peak
4	11.34	35.50	42.49	48.32	52.67	74.00	-21.33	peak
5	10.04	36.16	41.77	46.56	50.99	74.00	-23.01	peak
6	10.82	37.76	38.17	43.07	53.48	74.00	-20.52	peak



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Mode:c; Polarization:Horizontal; Channel:High



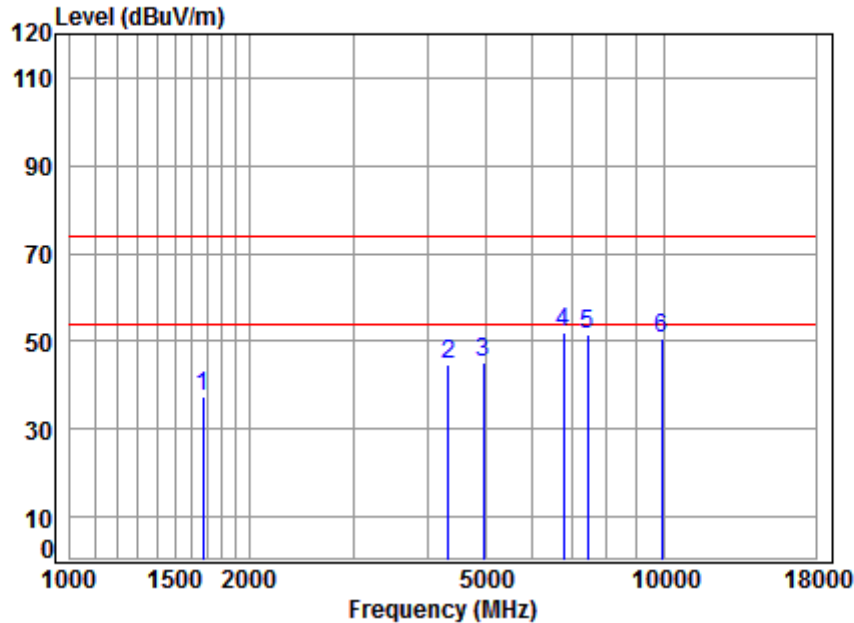
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 08379CR
 Mode : 2479.35 TX SE
 Note : Headset

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5.25	26.58	40.82	46.55	37.56	74.00	-36.44	peak
2	7.50	33.50	43.25	48.76	46.51	74.00	-27.49	peak
3	8.05	34.15	43.76	48.99	47.43	74.00	-26.57	peak
4	11.48	35.57	42.43	48.37	52.99	74.00	-21.01	peak
5	10.02	36.25	41.69	46.97	51.55	74.00	-22.45	peak
6	10.90	37.85	37.93	40.81	51.63	74.00	-22.37	peak



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Mode:c; Polarization:Vertical; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 08379CR
 Mode : 2479.35 TX SE
 Note : Headset

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	5.26	26.56	40.82	46.25	37.25	74.00	-36.75 peak
2	4329.354	7.37	33.30	43.12	47.34	44.89	74.00	-29.11 peak
3	4958.700	8.05	34.15	43.76	46.62	45.06	74.00	-28.94 peak
4	6776.265	10.75	35.77	42.18	47.65	51.99	74.00	-22.01 peak
5	7438.050	10.02	36.25	41.69	46.81	51.39	74.00	-22.61 peak
6	9917.400	10.90	37.85	37.93	39.87	50.69	74.00	-23.31 peak



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7 Photographs

7.1 Setup Photos

Refer to Setup Photos

7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



8 Appendix

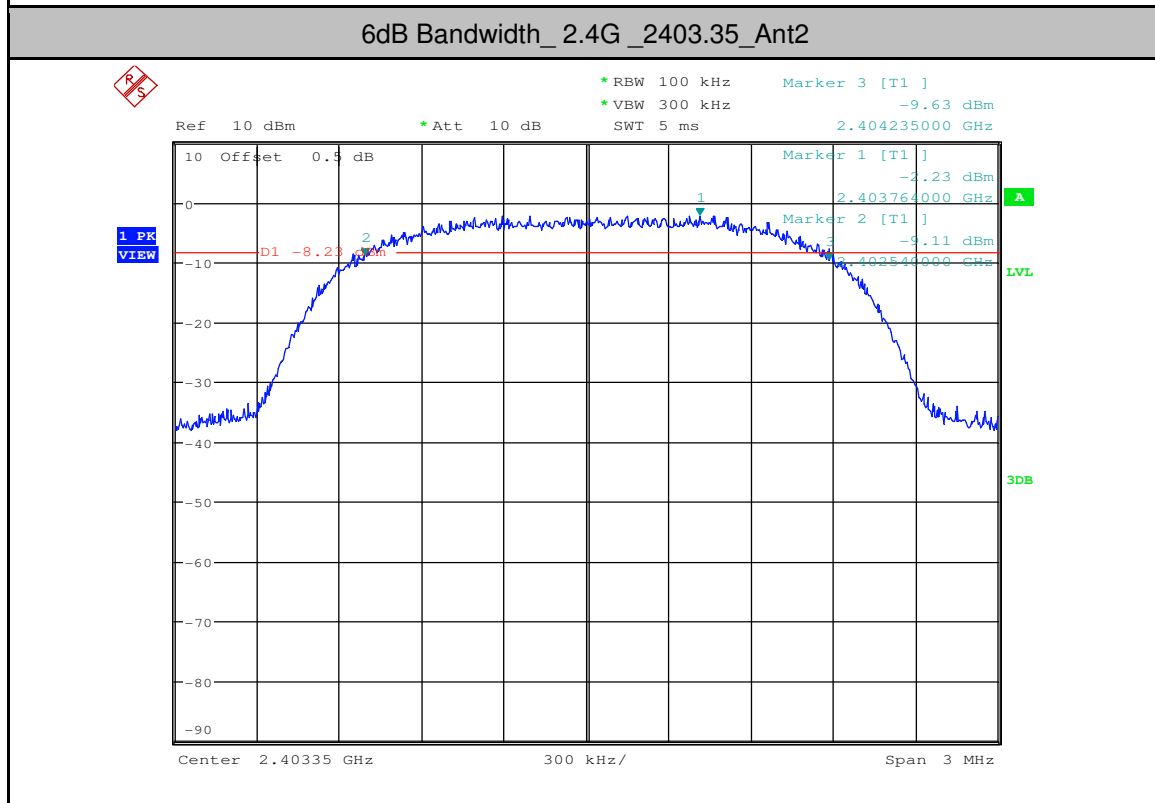
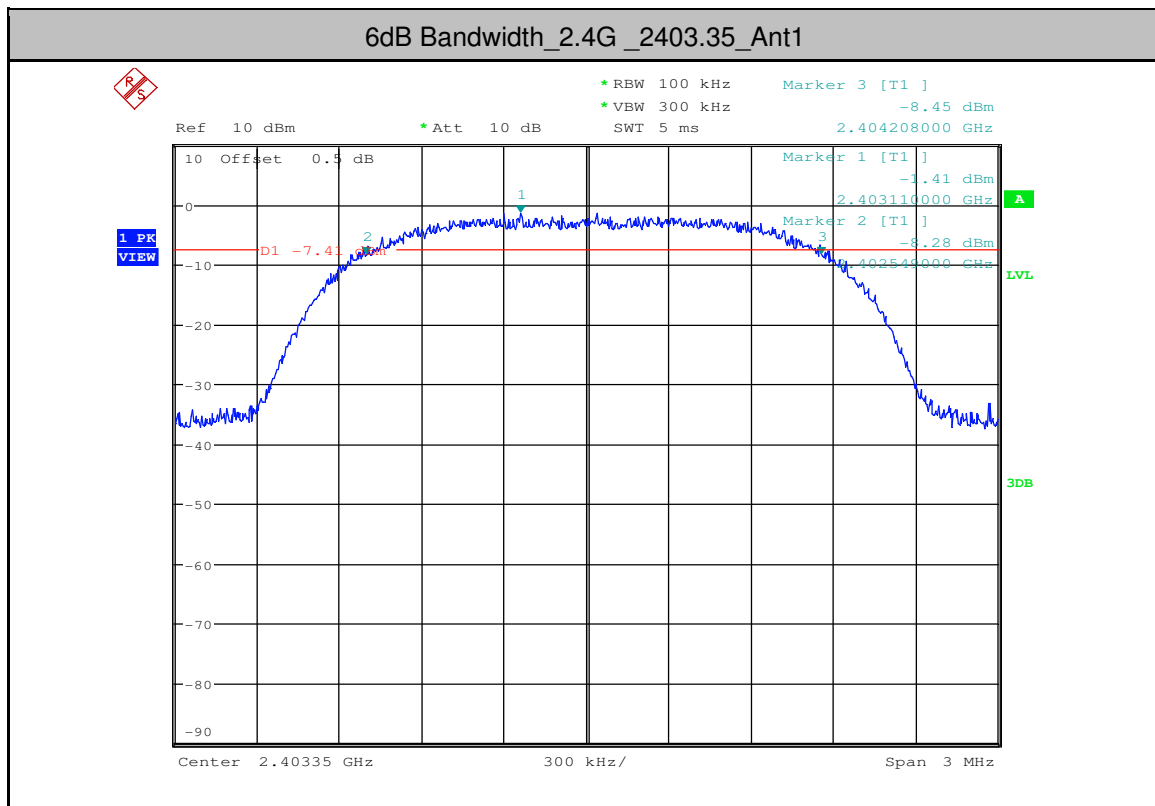
8.1 Appendix 15.247

For Headset

1.6dB Bandwidth

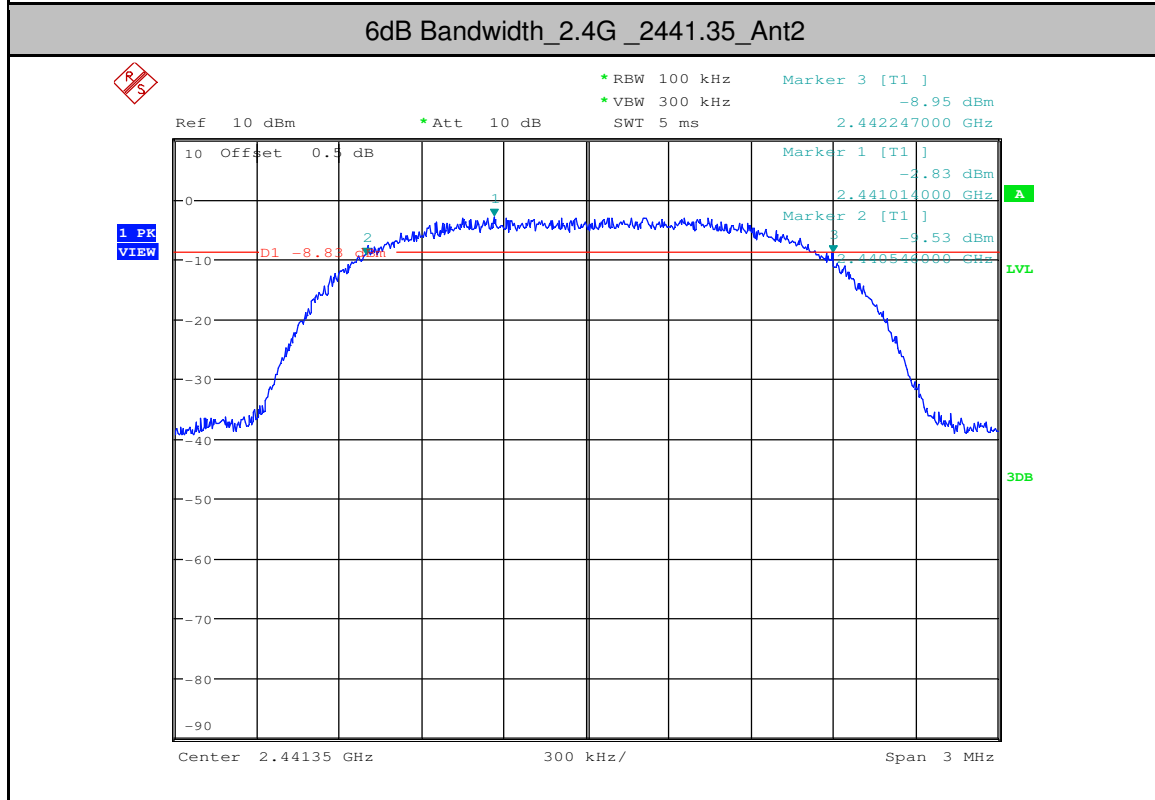
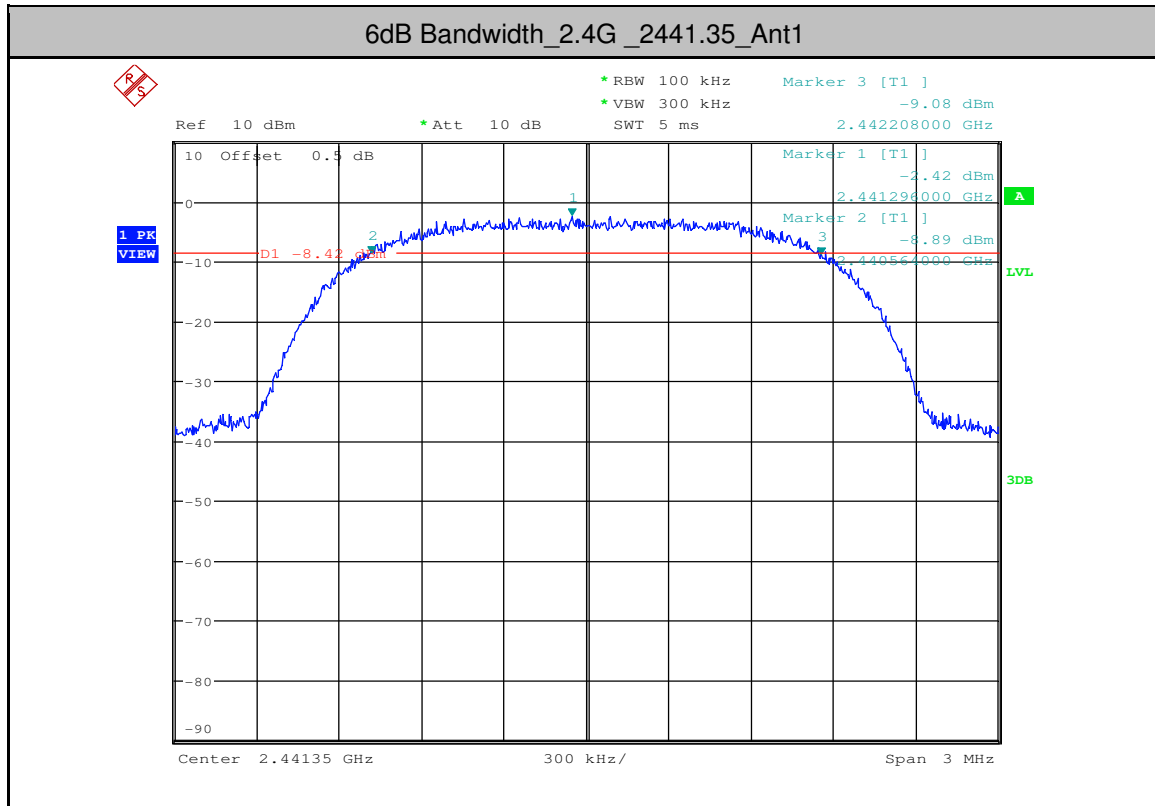
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
2.4G	2403.35	Ant1	1.659	>=0.5	PASS
2.4G	2403.35	Ant2	1.695	>=0.5	PASS
2.4G	2441.35	Ant1	1.644	>=0.5	PASS
2.4G	2441.35	Ant2	1.701	>=0.5	PASS
2.4G	2479.35	Ant1	1.668	>=0.5	PASS
2.4G	2479.35	Ant2	1.644	>=0.5	PASS





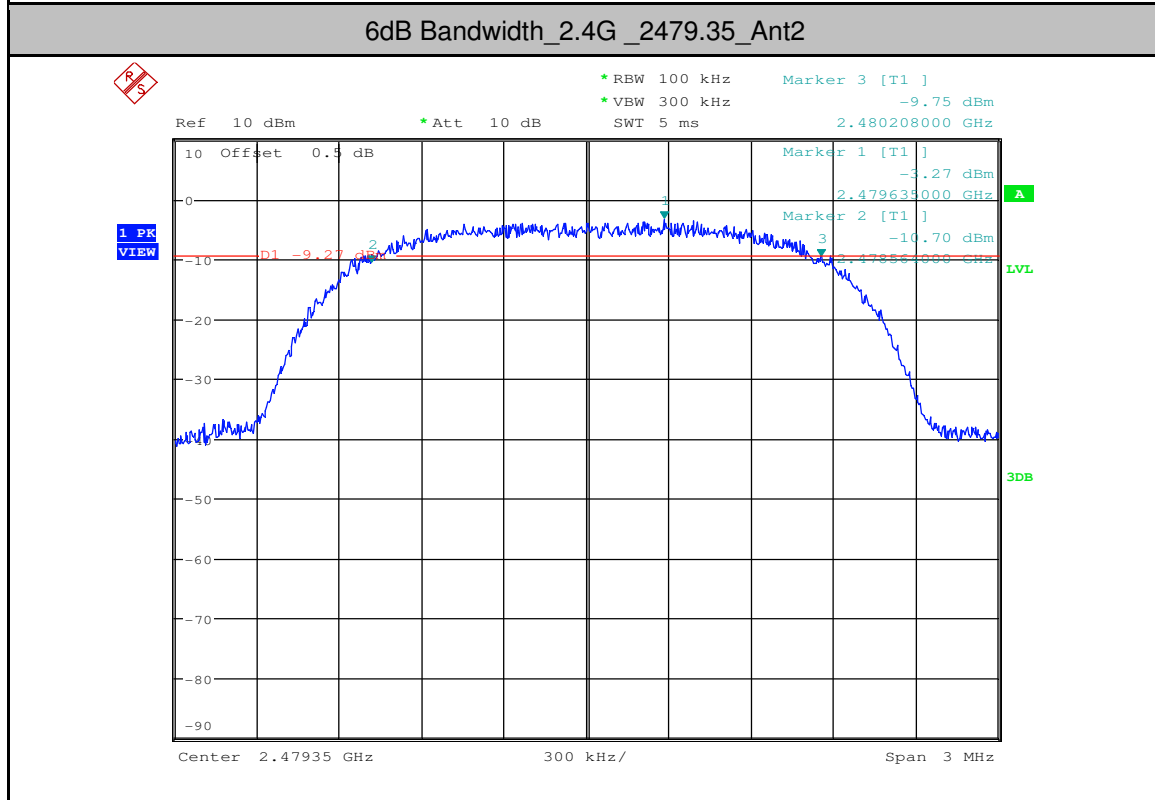
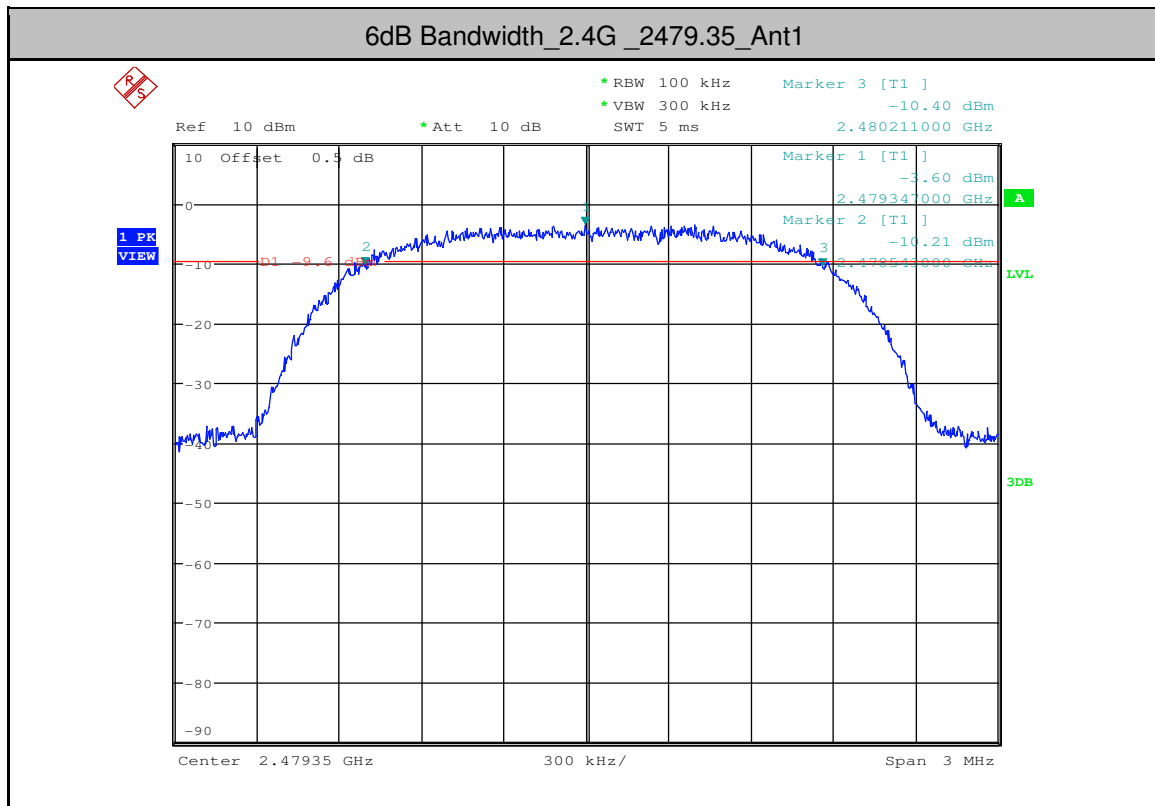
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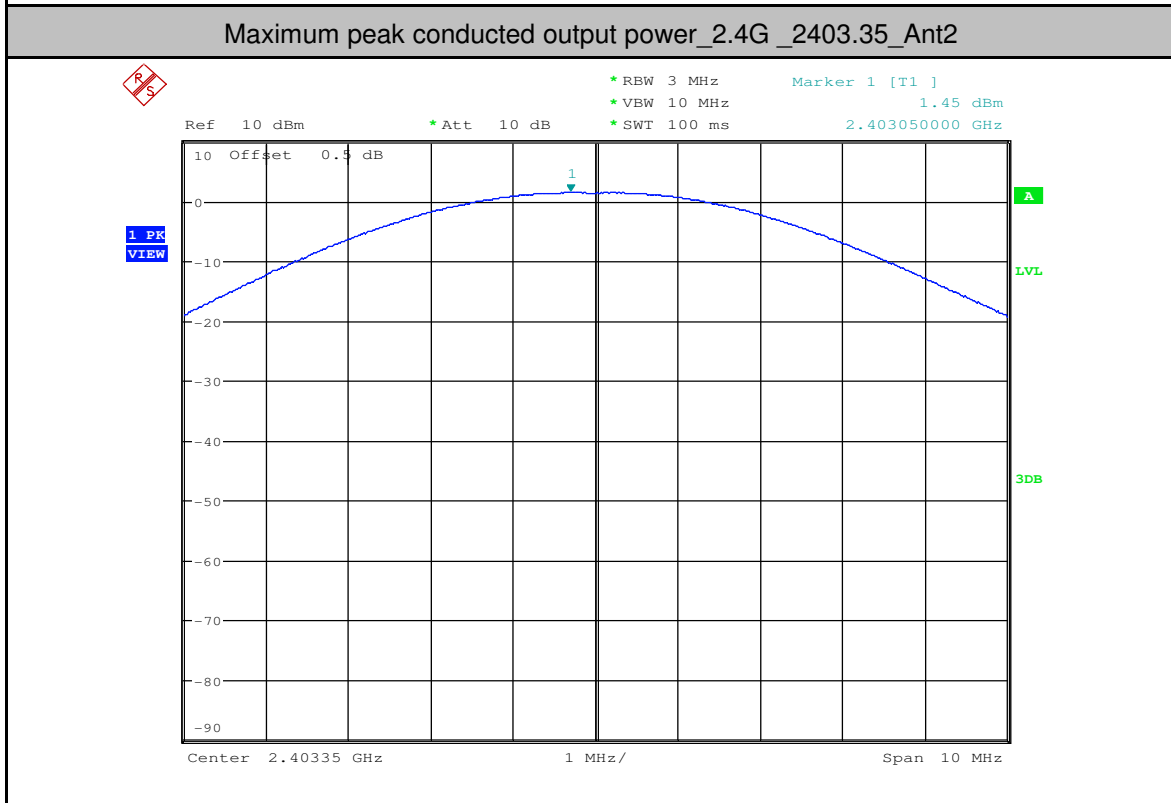
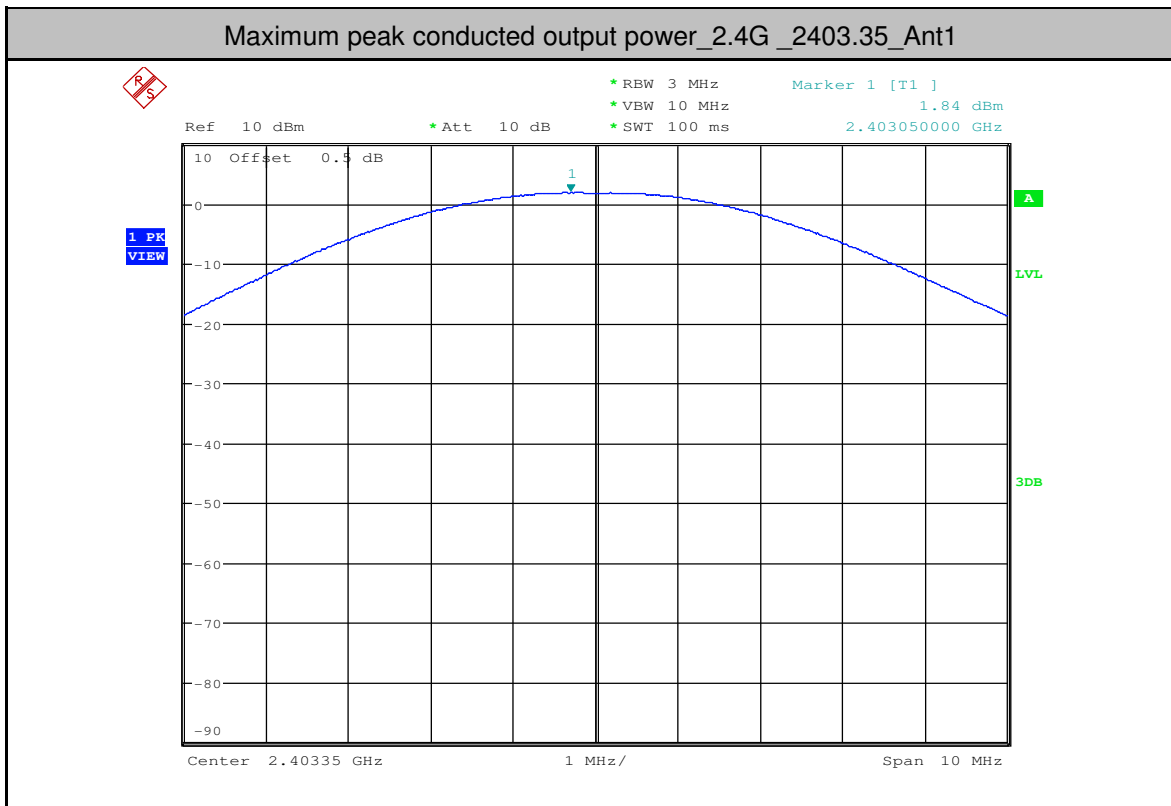
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2. Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
2.4G	2403.35	Ant1	1.84	<30	PASS
2.4G	2403.35	Ant2	1.45	<30	PASS
2.4G	2441.35	Ant1	0.99	<30	PASS
2.4G	2441.35	Ant2	0.71	<30	PASS
2.4G	2479.35	Ant1	0.24	<30	PASS
2.4G	2479.35	Ant2	0.06	<30	PASS



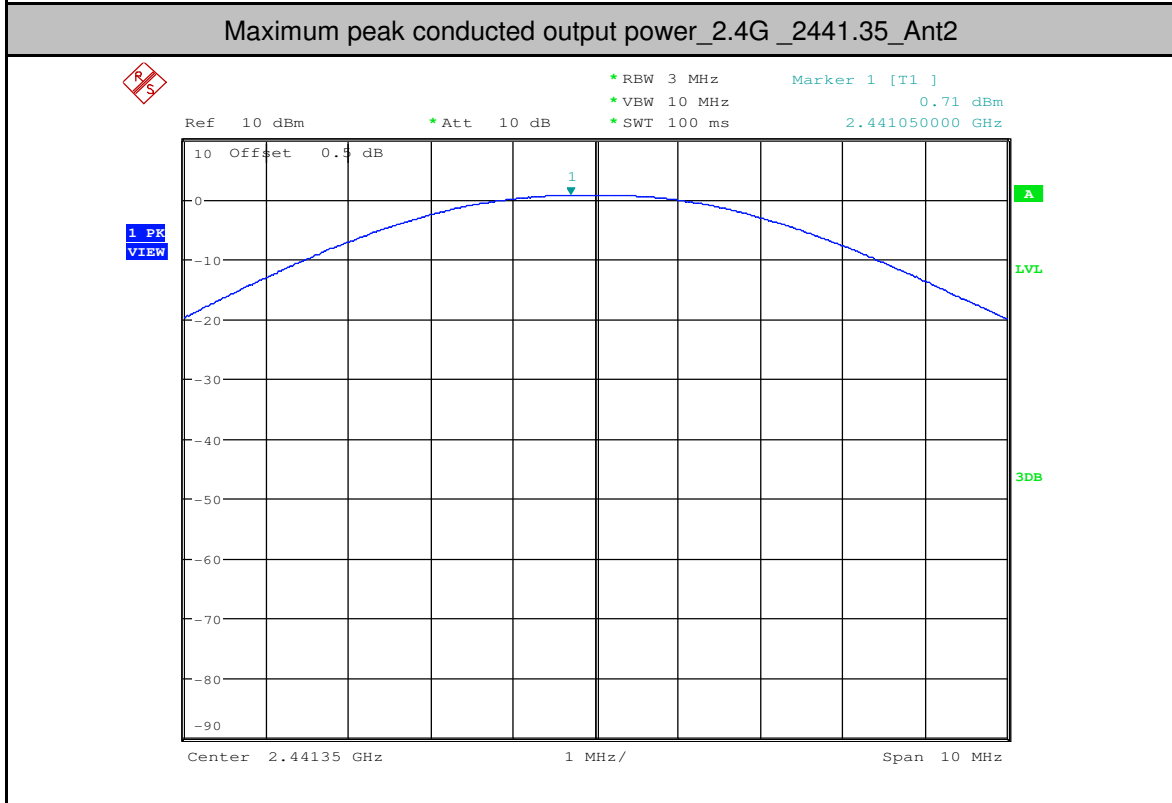
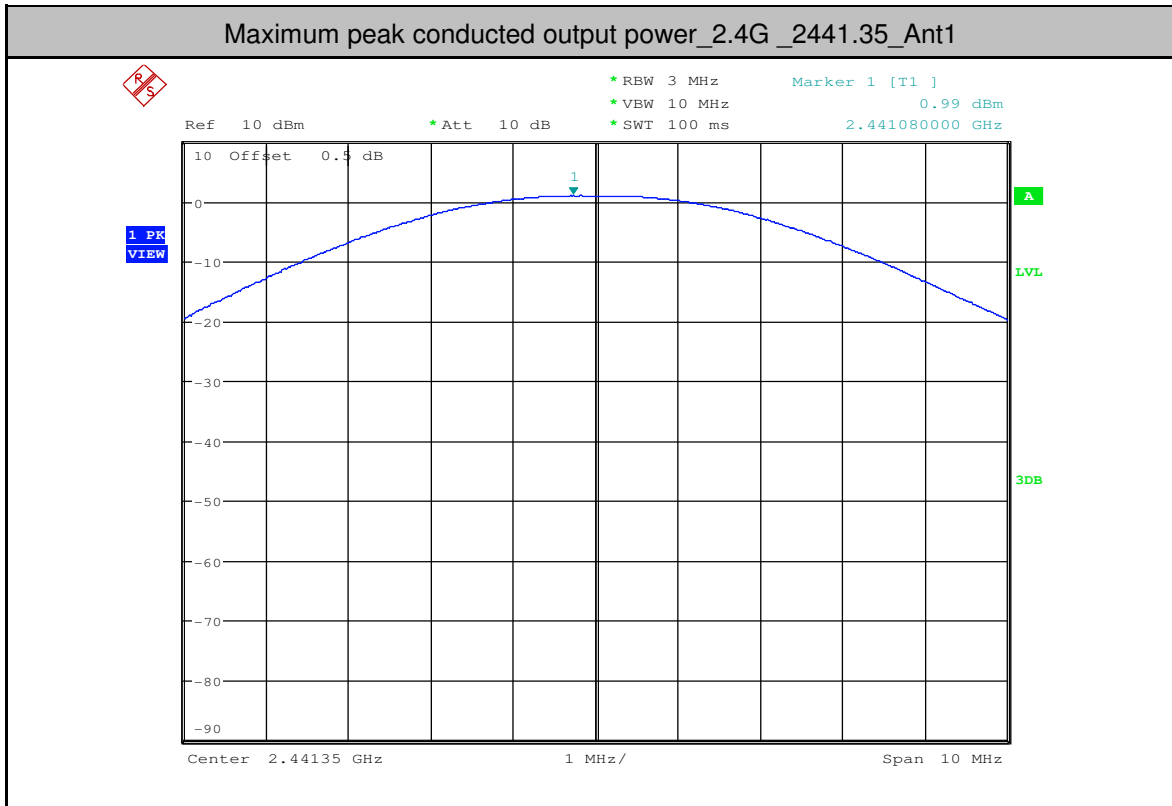
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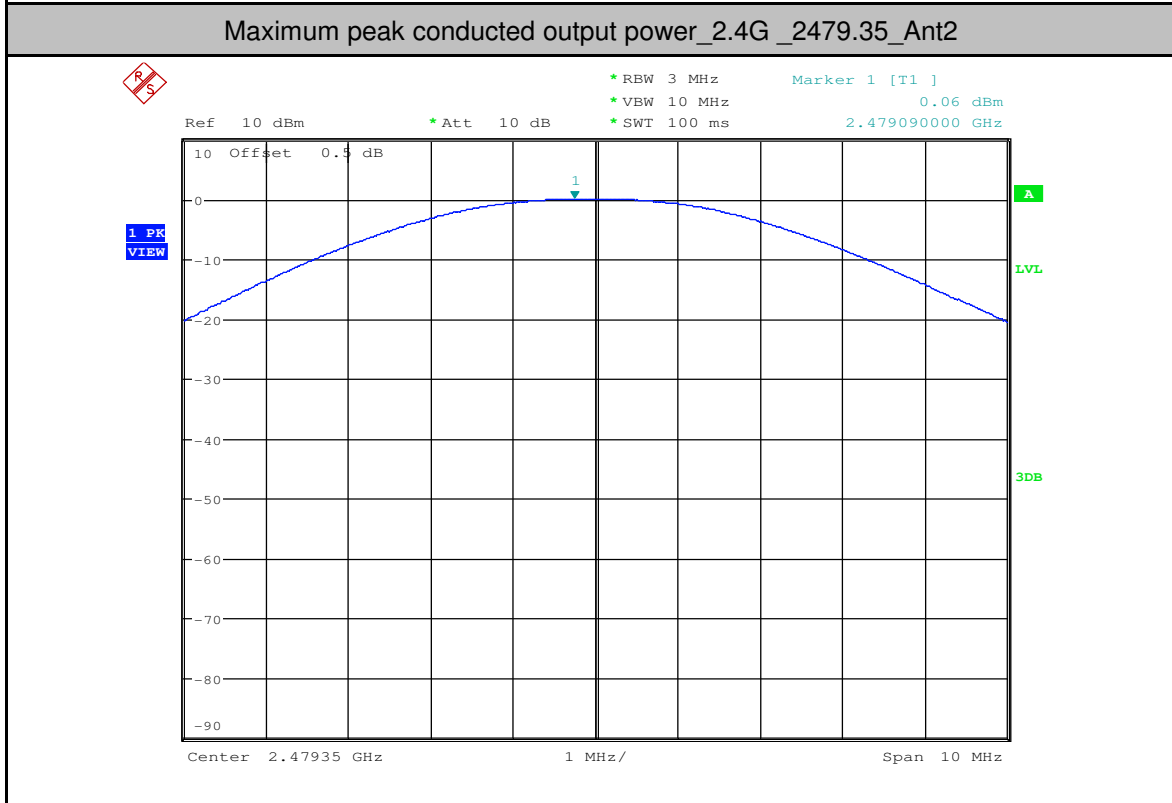
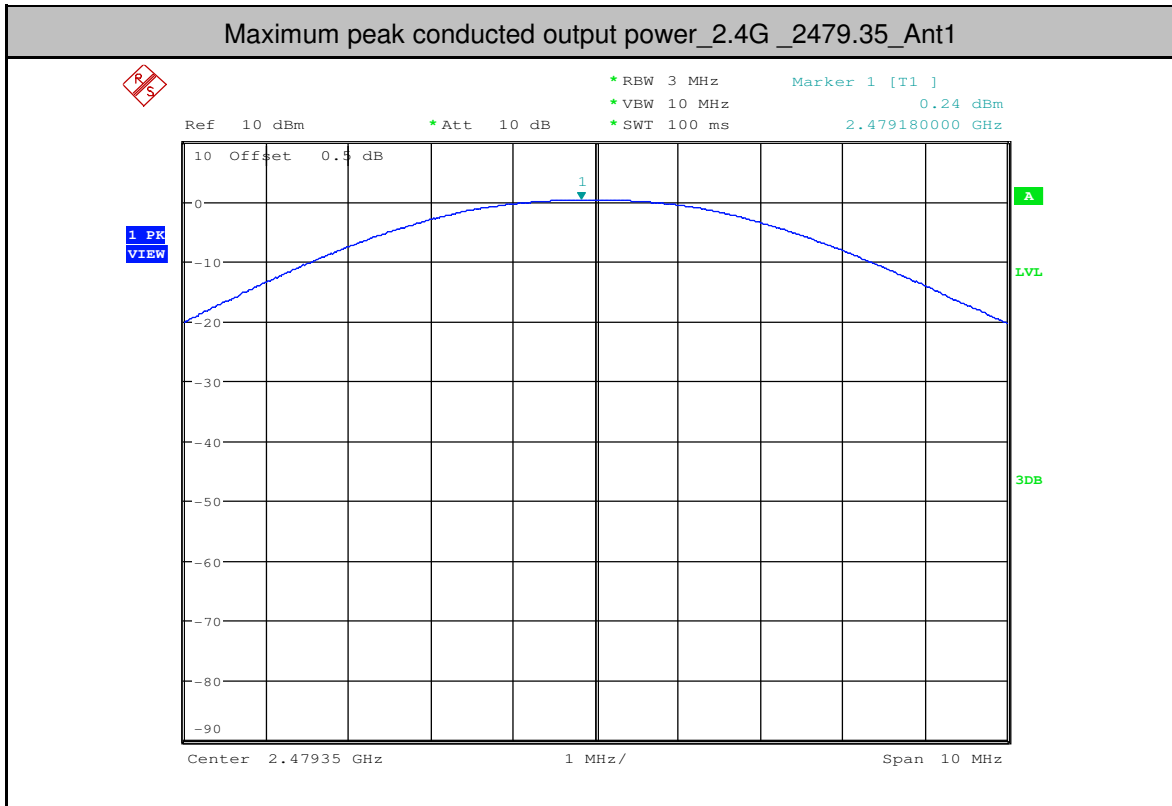
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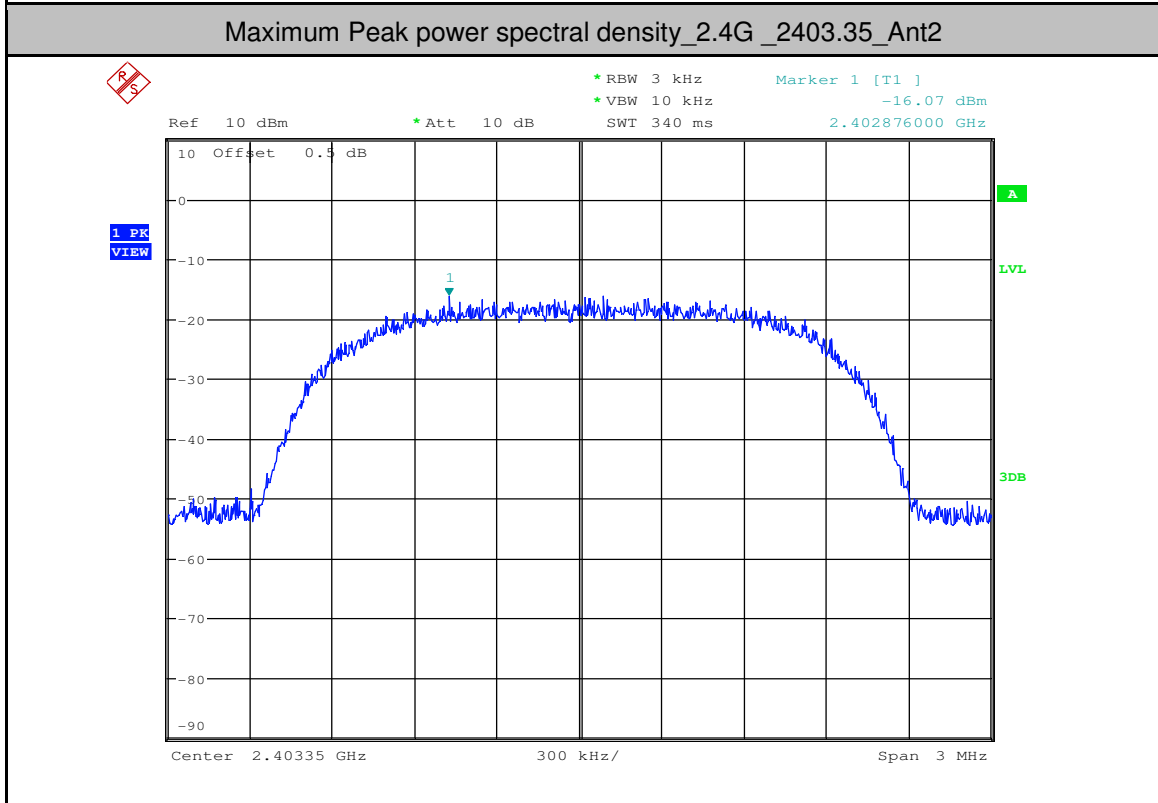
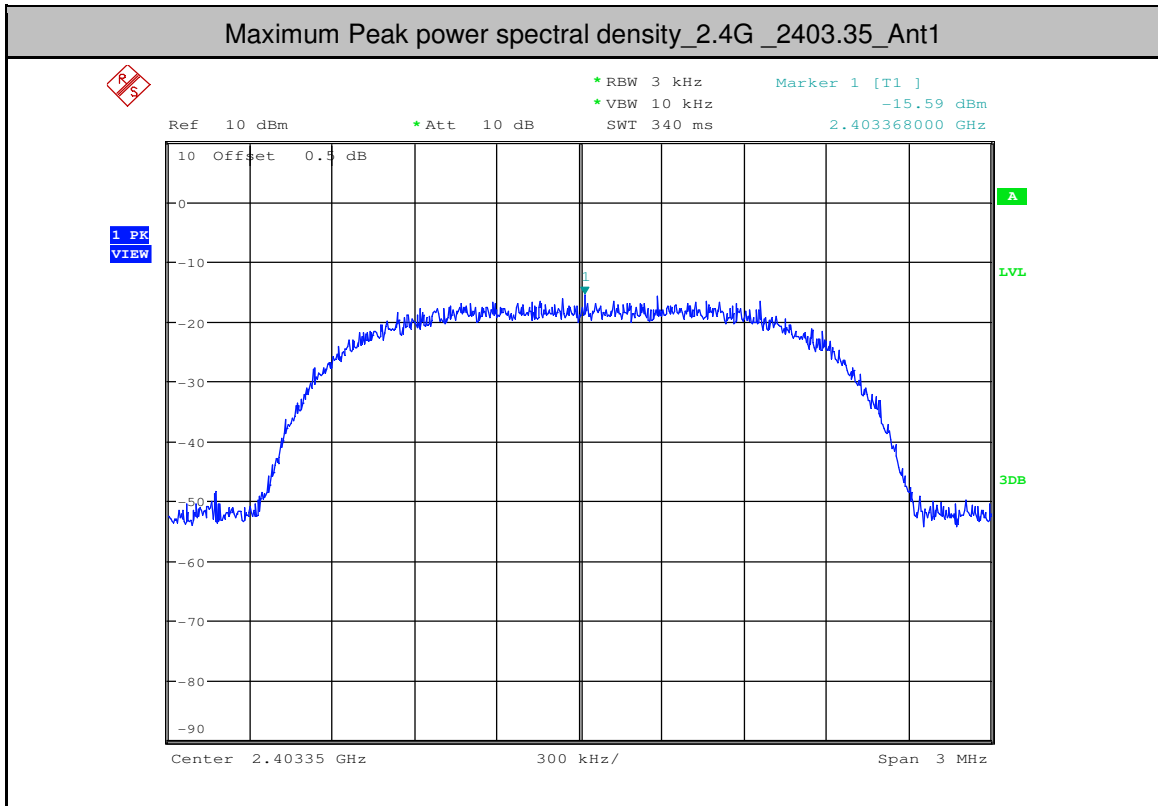
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3.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2.4G	2403.35	Ant1	-15.59	<8.00	PASS
2.4G	2403.35	Ant2	-16.07	<8.00	PASS
2.4G	2441.35	Ant1	-16.84	<8.00	PASS
2.4G	2441.35	Ant2	-17.3	<8.00	PASS
2.4G	2479.35	Ant1	-17.38	<8.00	PASS
2.4G	2479.35	Ant2	-17.24	<8.00	PASS

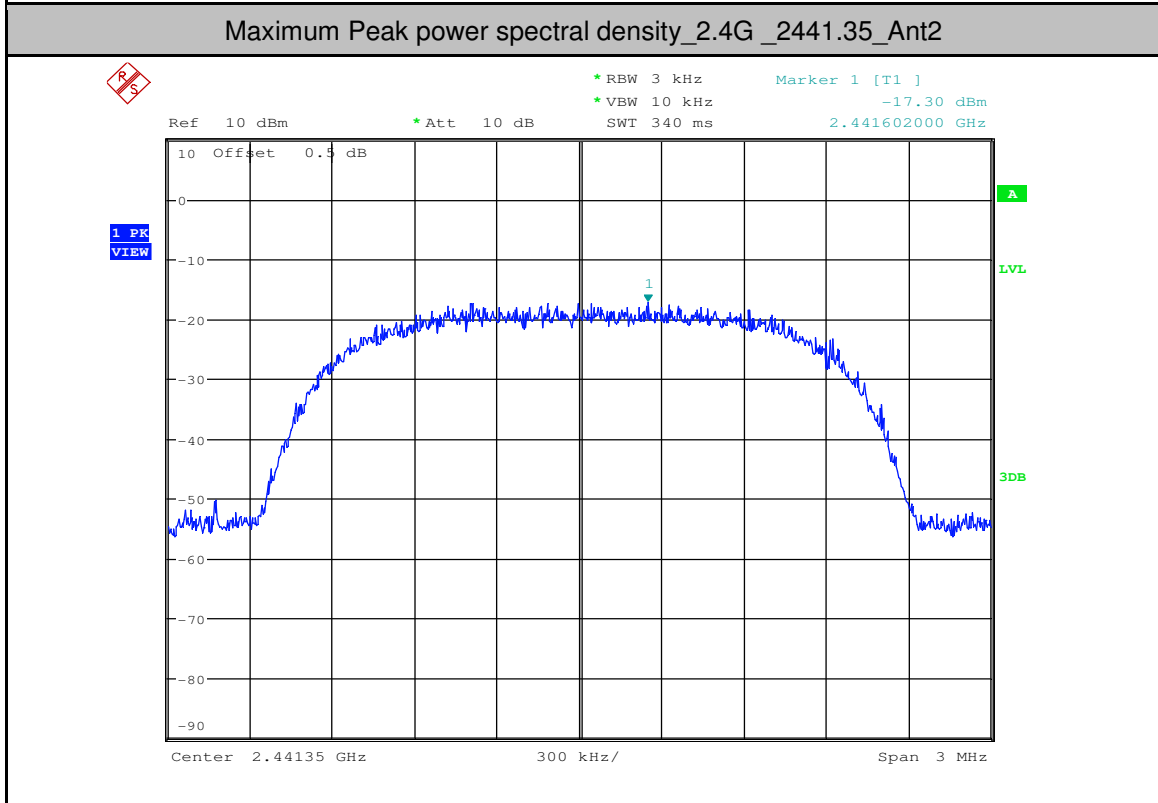
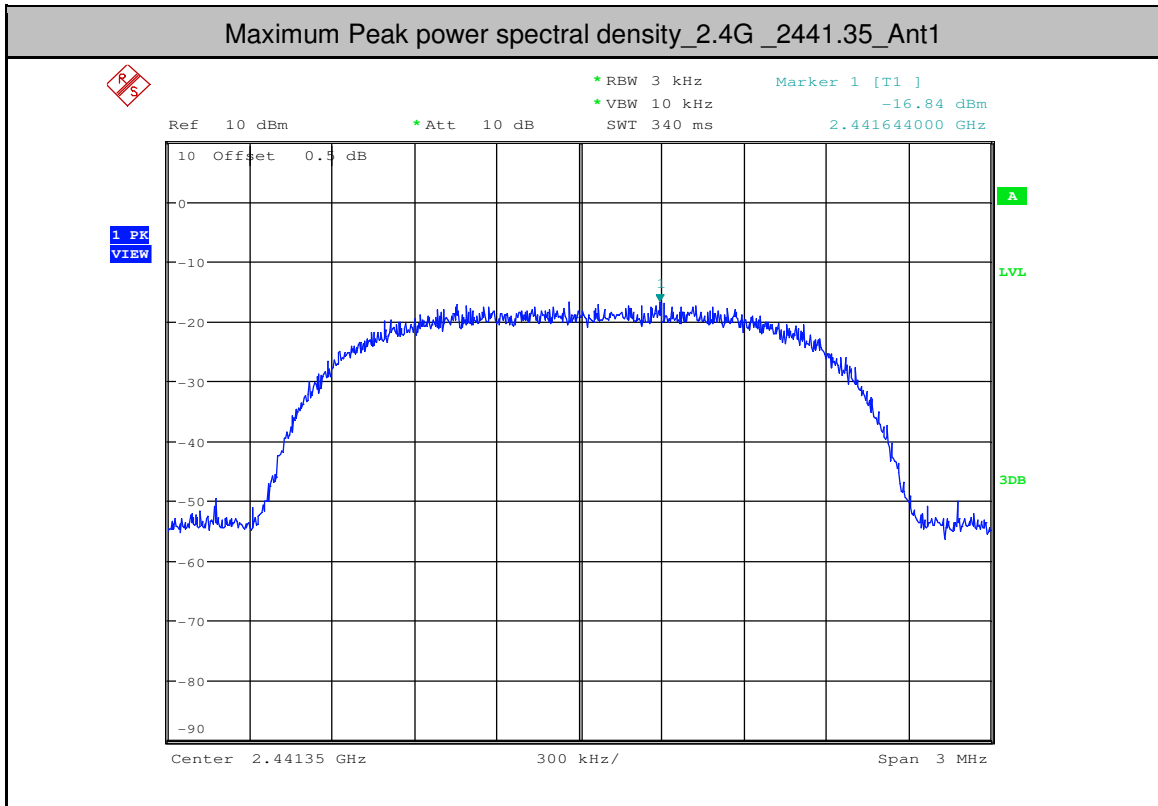


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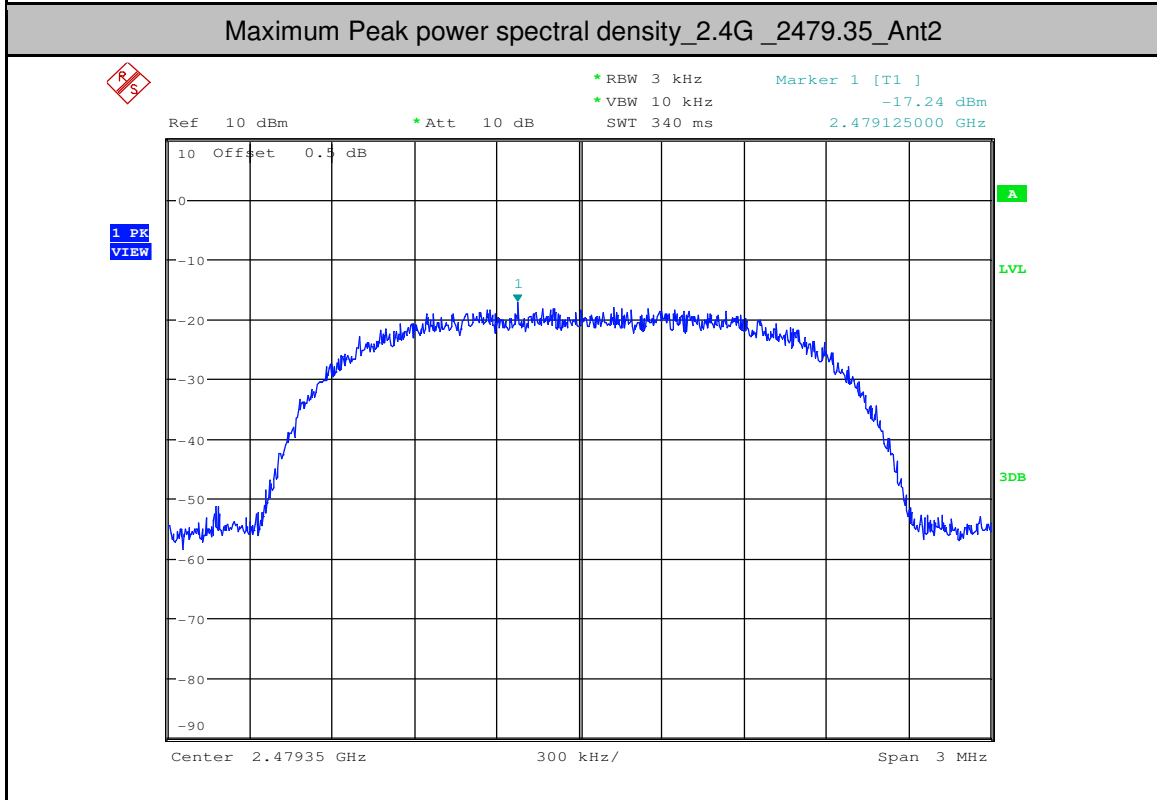
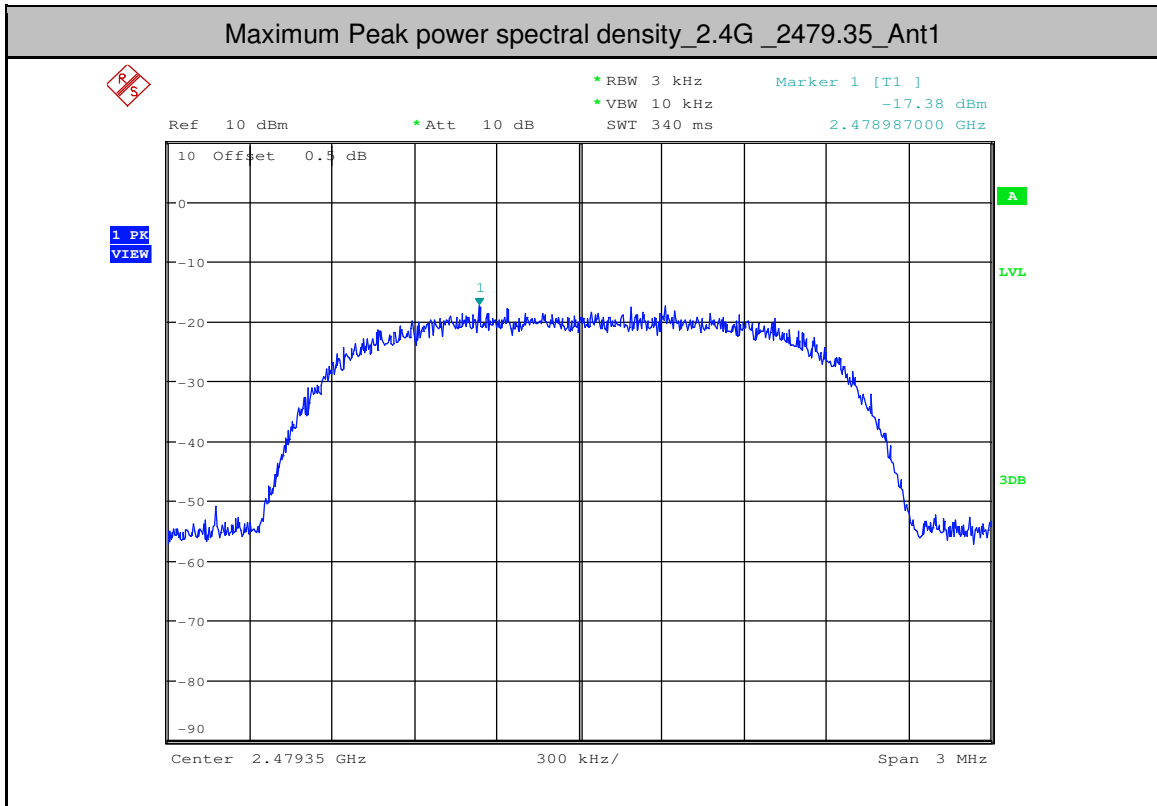
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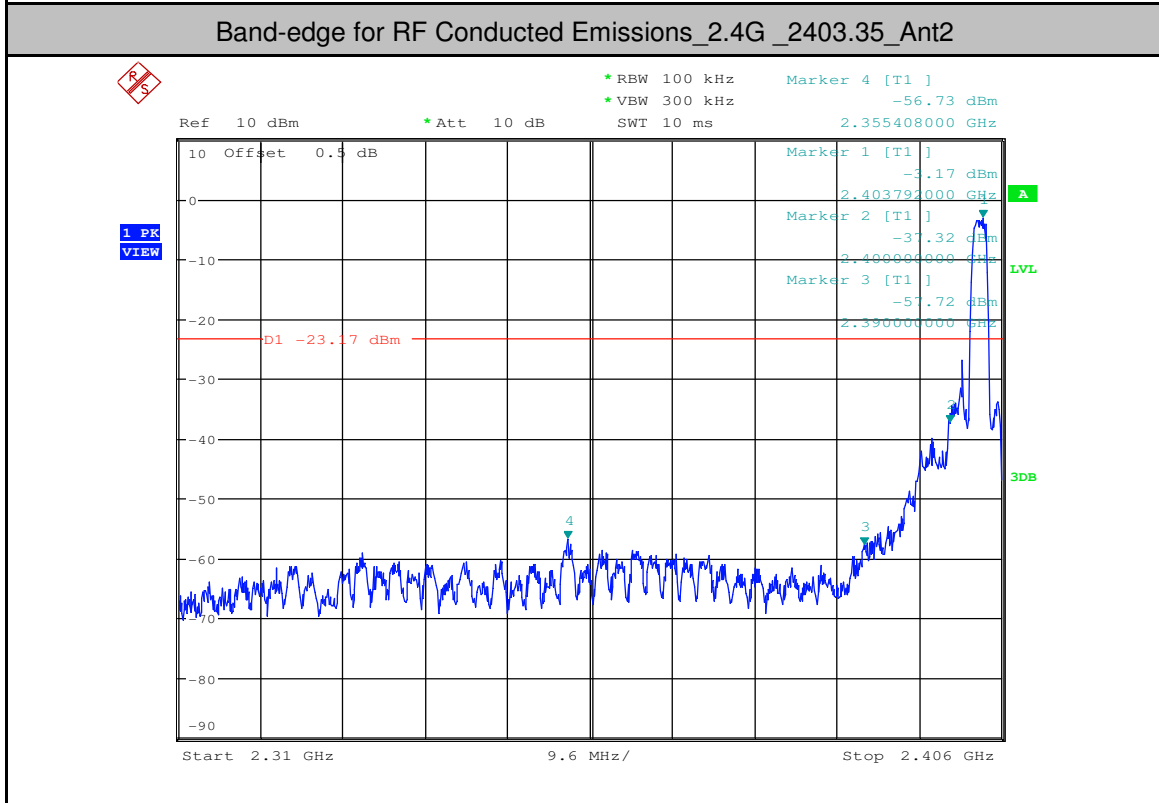
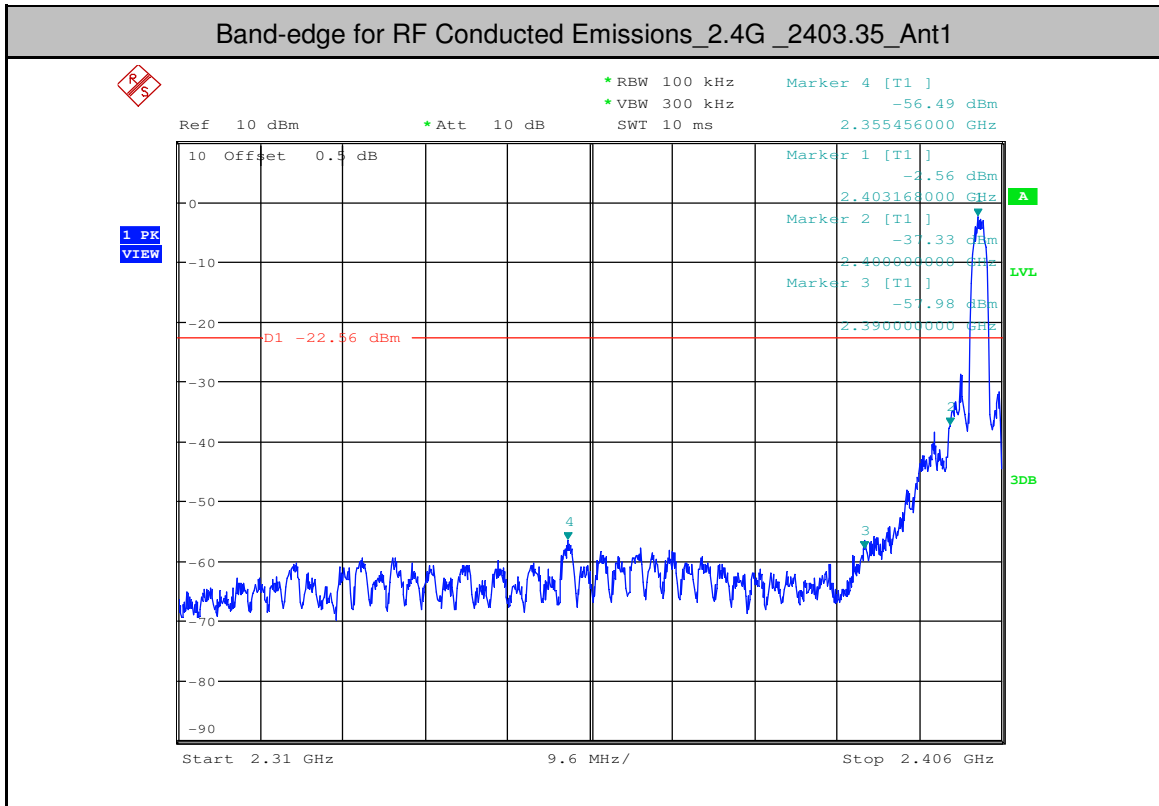
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4. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
2.4G	2403.35	Ant1	-2.560	-56.485	<-22.56	PASS
2.4G	2403.35	Ant2	-3.170	-56.730	<-23.17	PASS
2.4G	2479.35	Ant1	-3.850	-47.513	<-23.85	PASS
2.4G	2479.35	Ant2	-3.780	-47.062	<-23.78	PASS



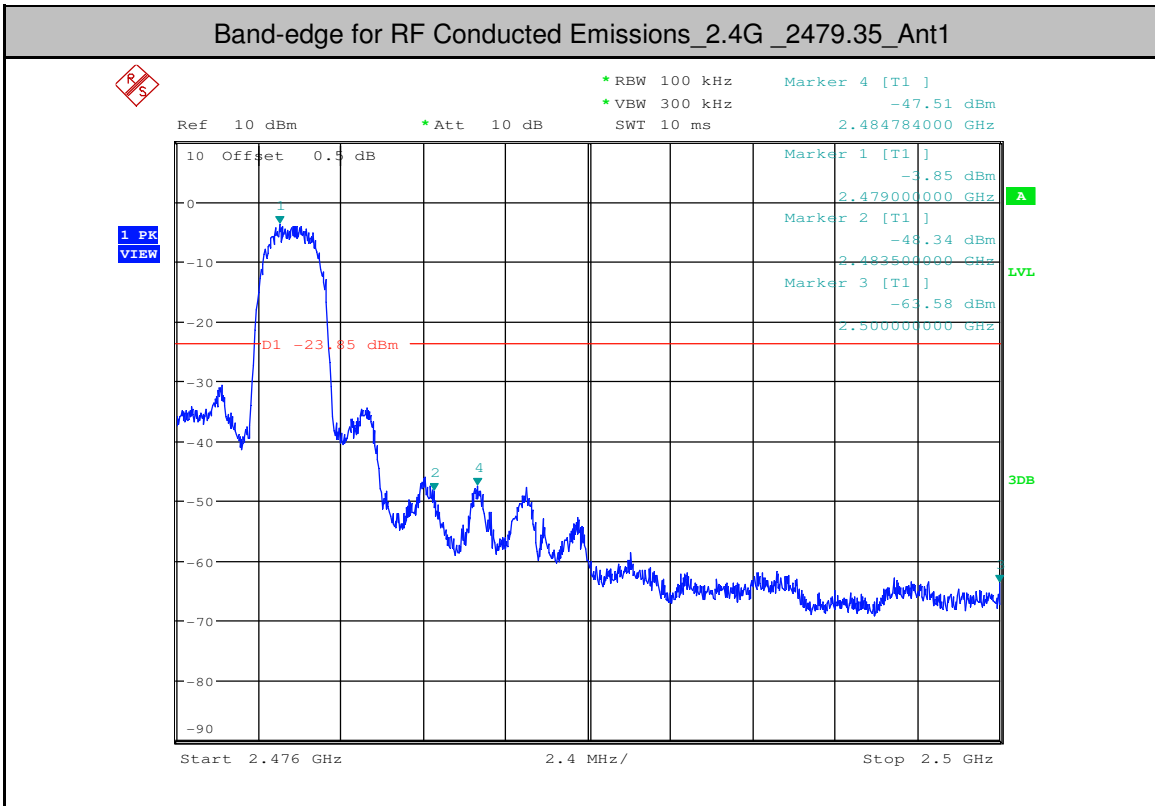
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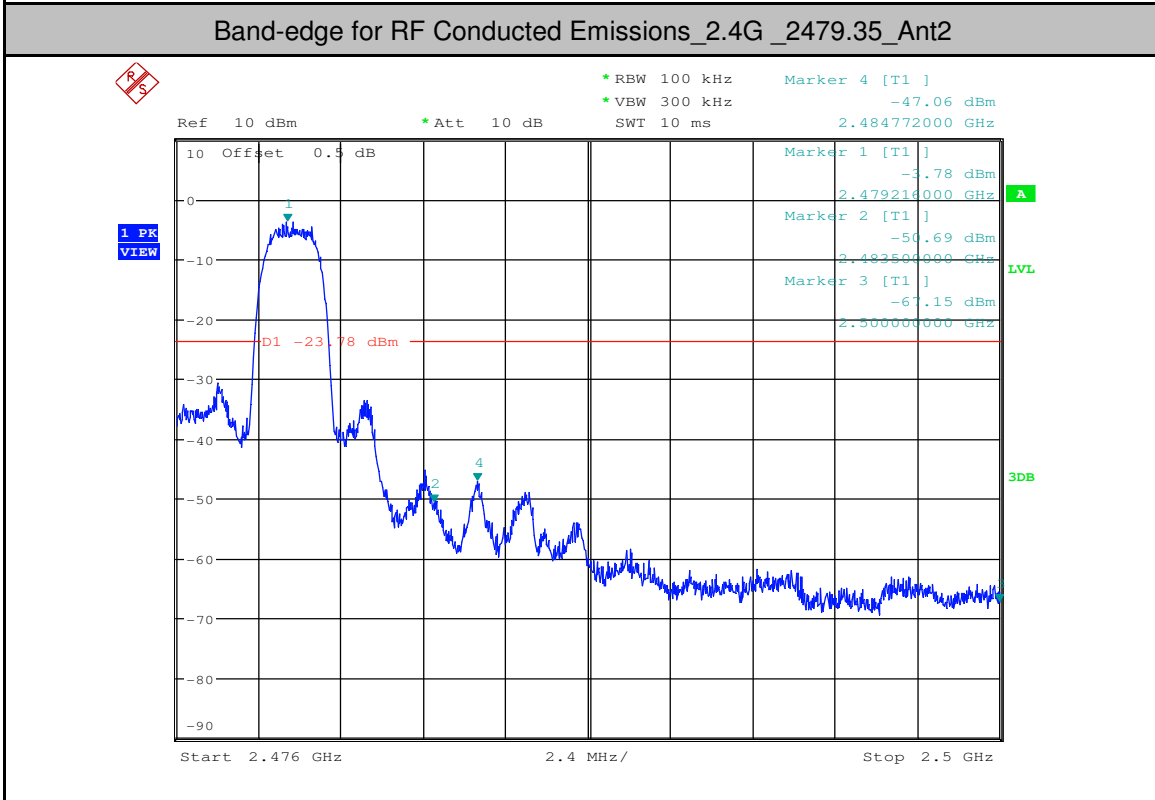
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Band-edge for RF Conducted Emissions_2.4G_2479.35_Ant1



Band-edge for RF Conducted Emissions_2.4G_2479.35_Ant2



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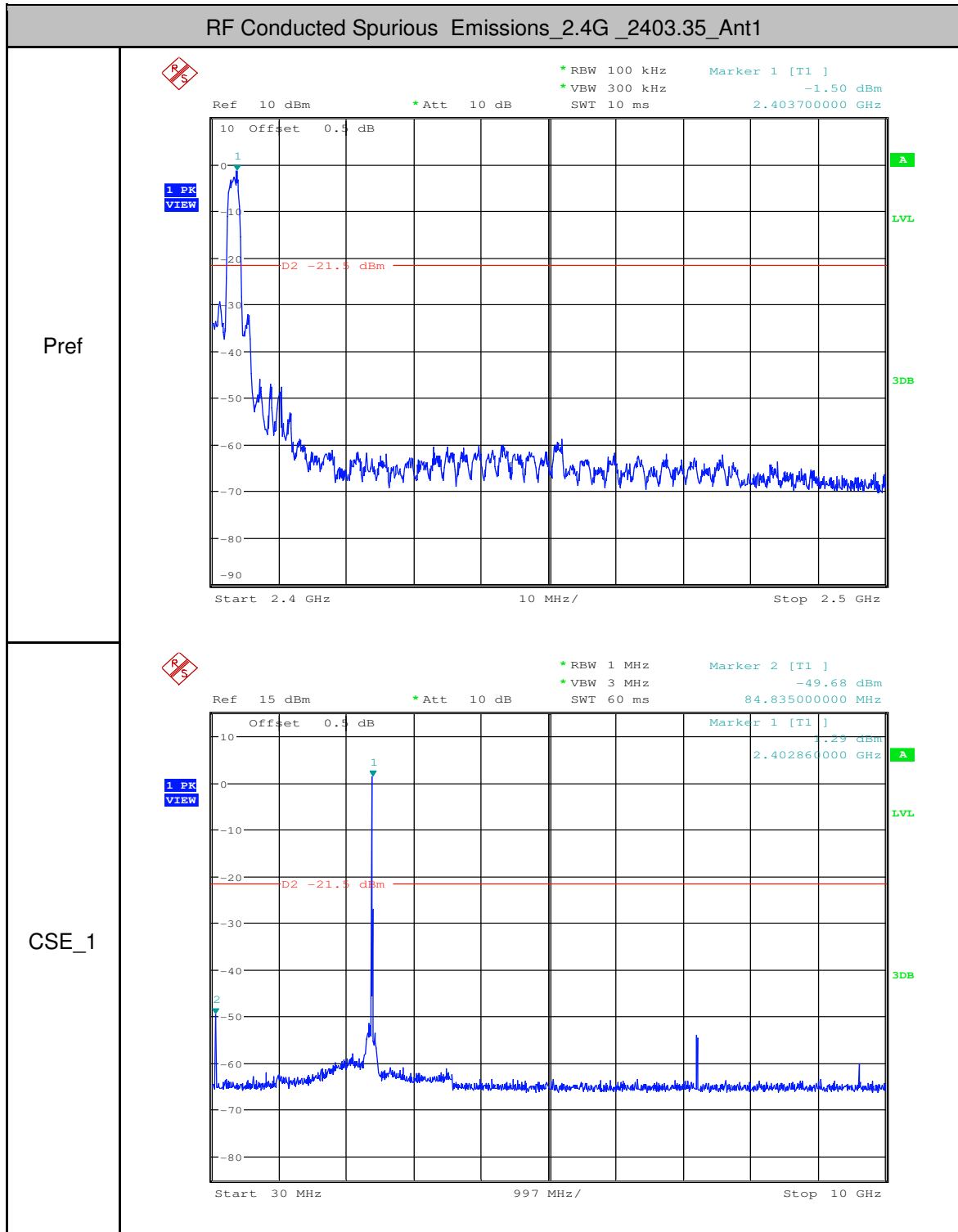
5.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
2.4G	2403.35	30	10000	1000	3000	-1.5	-49.680	<-21.5	PASS
2.4G	2403.35	10000	25000	1000	3000	-1.5	-62.060	<-21.5	PASS
2.4G	2403.35	30	10000	1000	3000	-2.54	-50.110	<-22.54	PASS
2.4G	2403.35	10000	25000	1000	3000	-2.54	-61.880	<-22.54	PASS
2.4G	2441.35	30	10000	1000	3000	-2.46	-51.470	<-22.46	PASS
2.4G	2441.35	10000	25000	1000	3000	-2.46	-62.300	<-22.46	PASS
2.4G	2441.35	30	10000	1000	3000	-3.63	-52.080	<-23.63	PASS
2.4G	2441.35	10000	25000	1000	3000	-3.63	-61.760	<-23.63	PASS
2.4G	2479.35	30	10000	1000	3000	-4.03	-52.610	<-24.03	PASS
2.4G	2479.35	10000	25000	1000	3000	-4.03	-61.700	<-24.03	PASS
2.4G	2479.35	30	10000	1000	3000	-4.01	-52.880	<-24.01	PASS
2.4G	2479.35	10000	25000	1000	3000	-4.01	-62.370	<-24.01	PASS



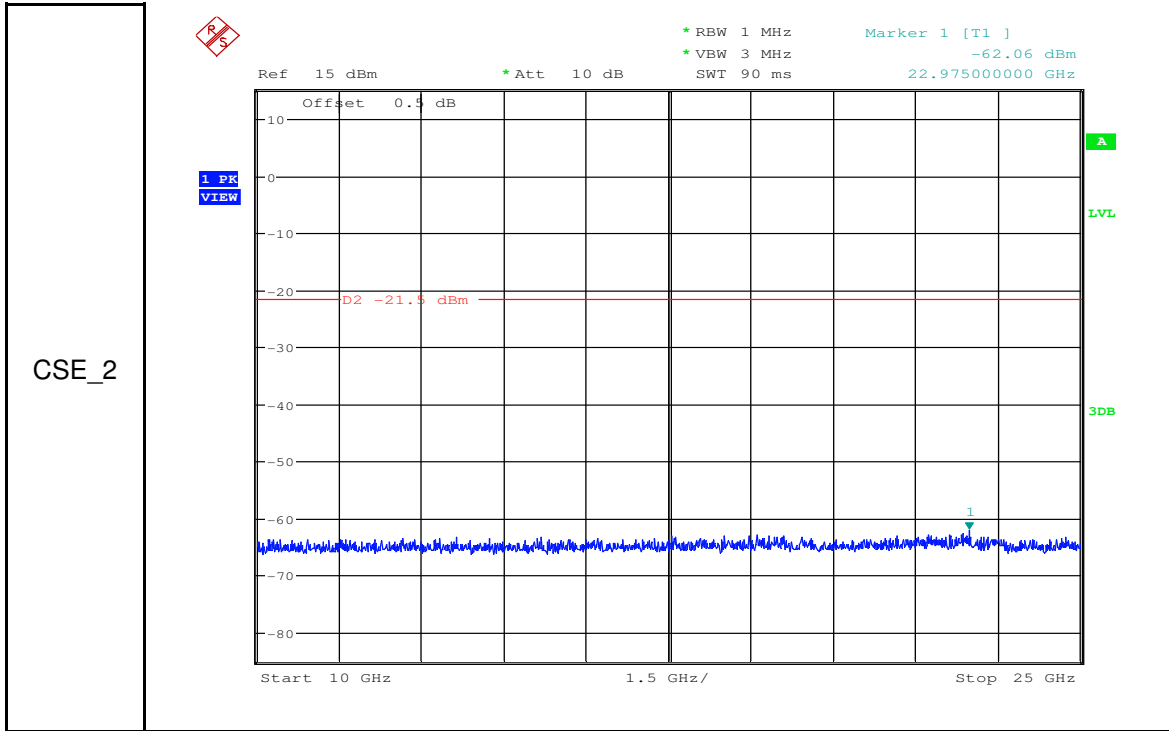
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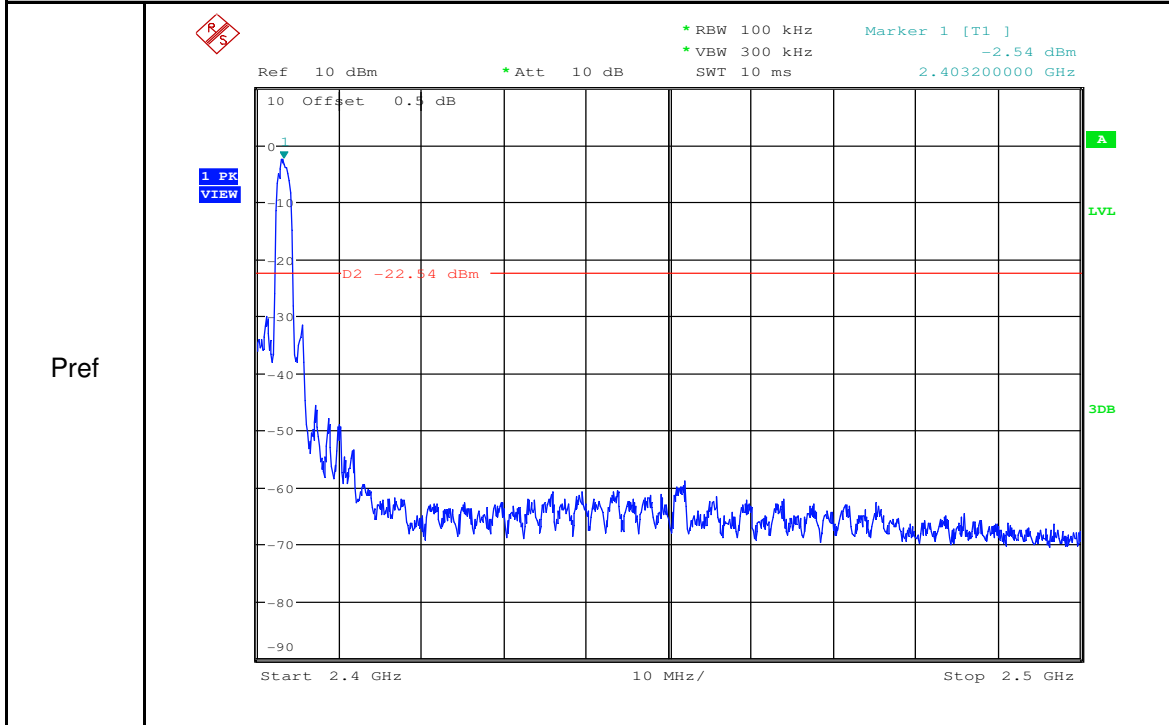


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RF Conducted Spurious Emissions_2.4G_2403.35_Ant2

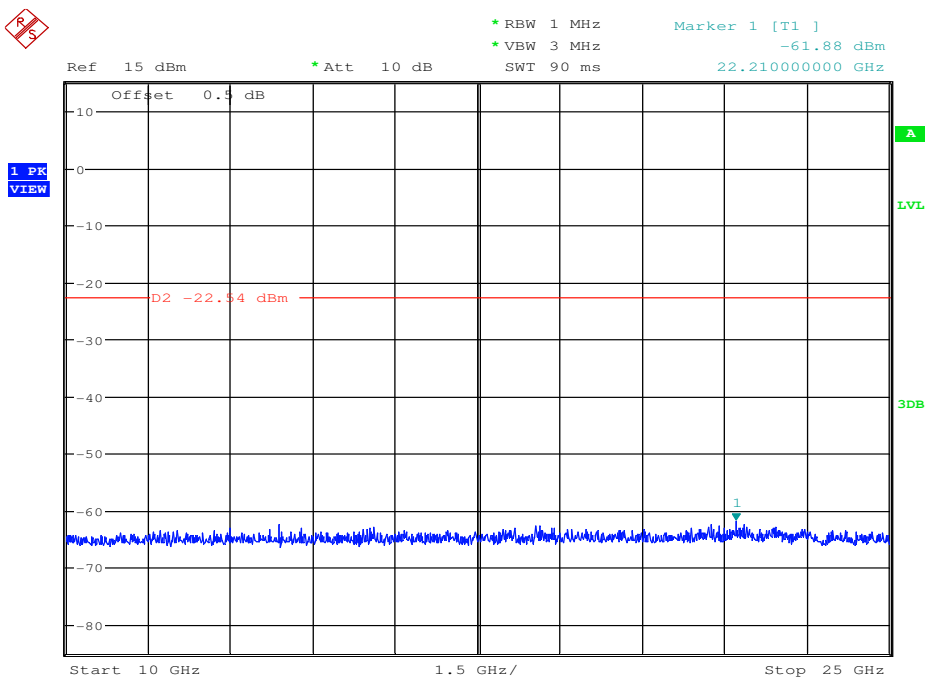
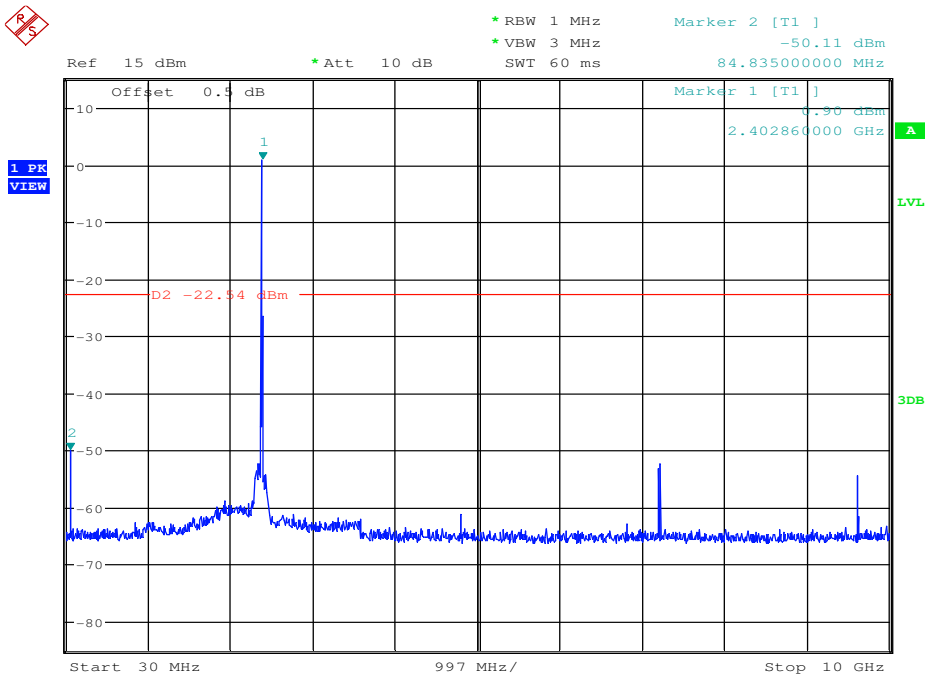


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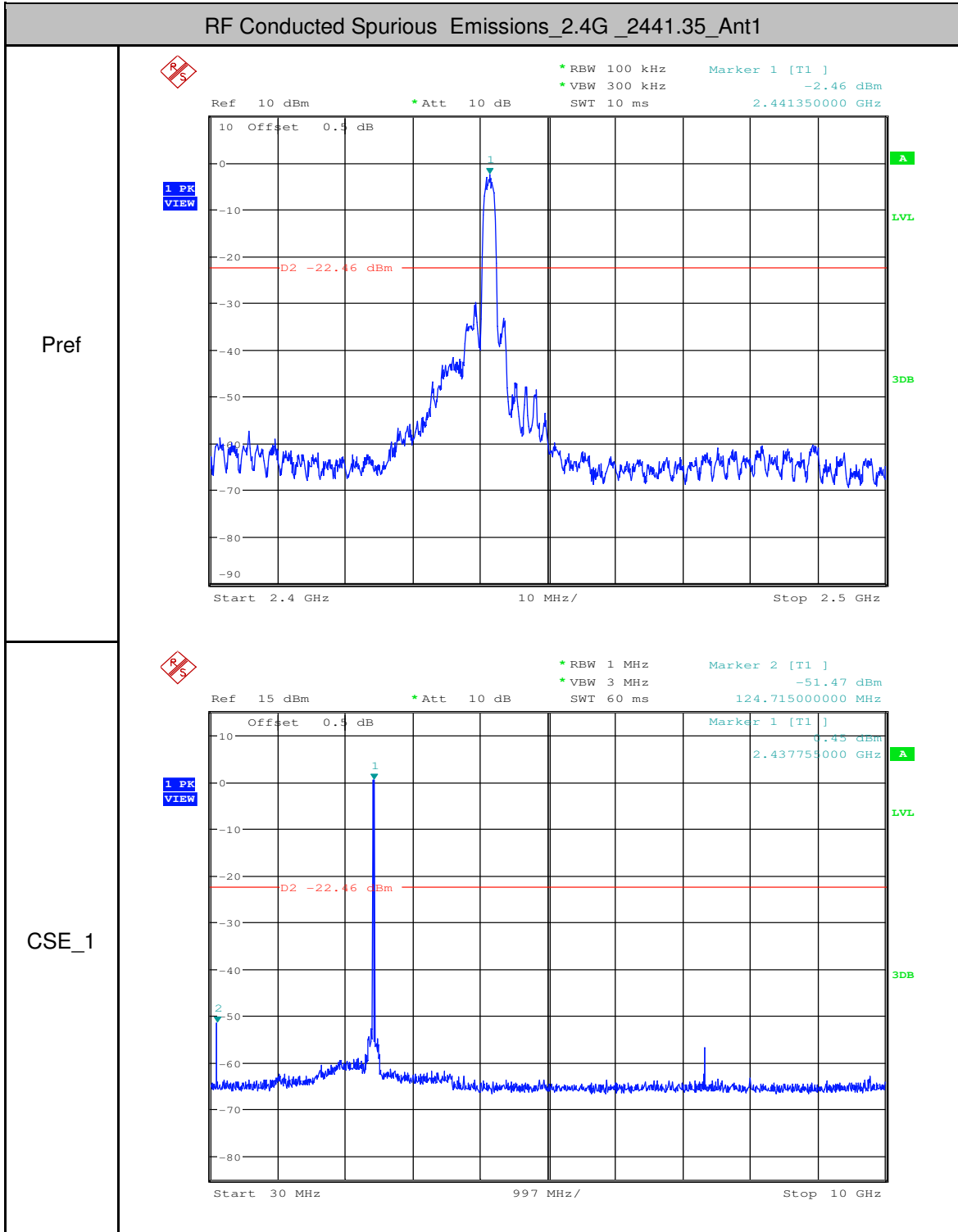
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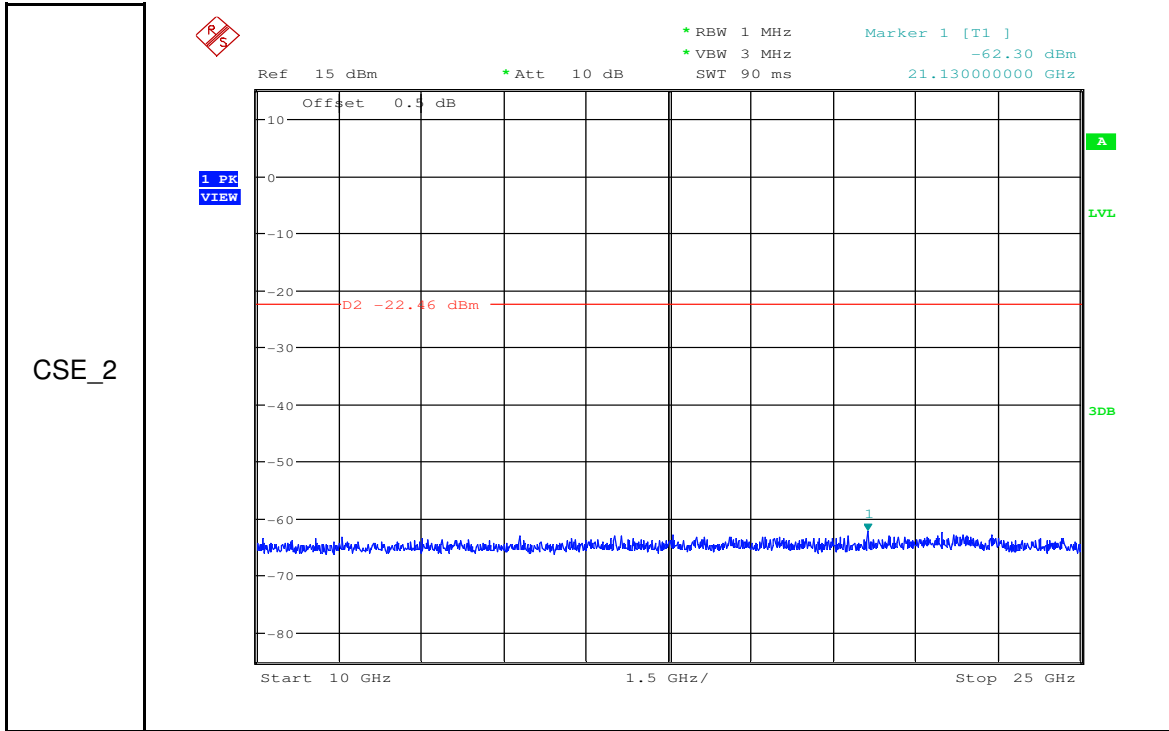
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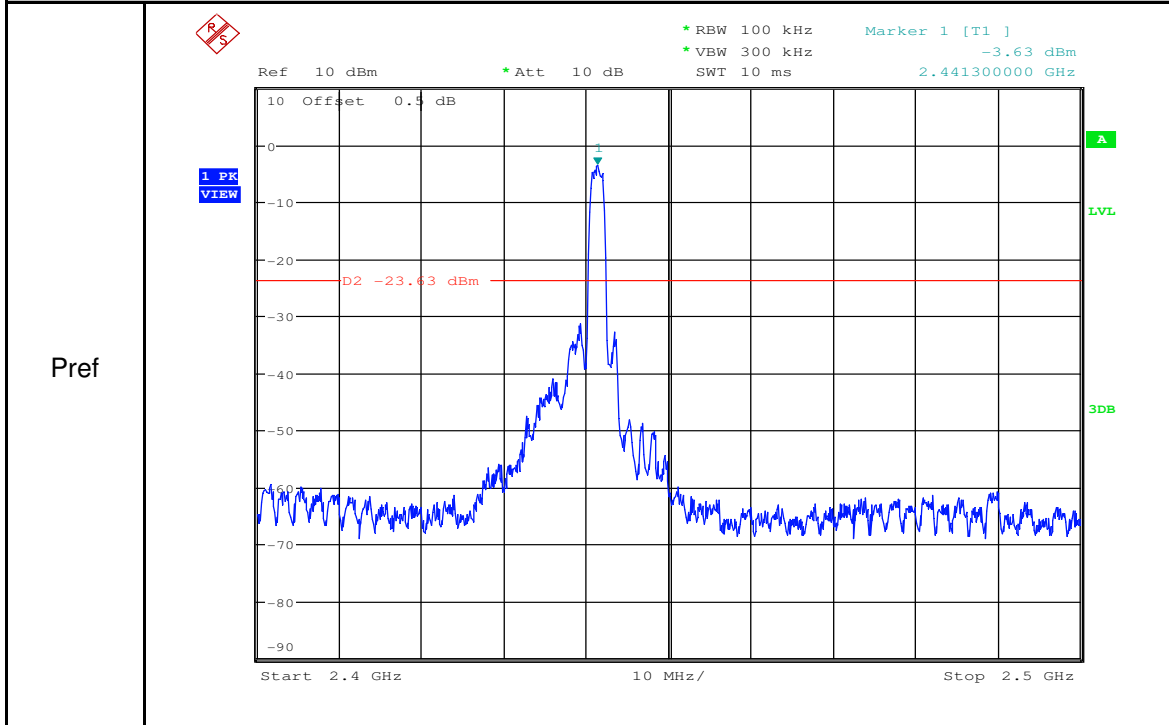


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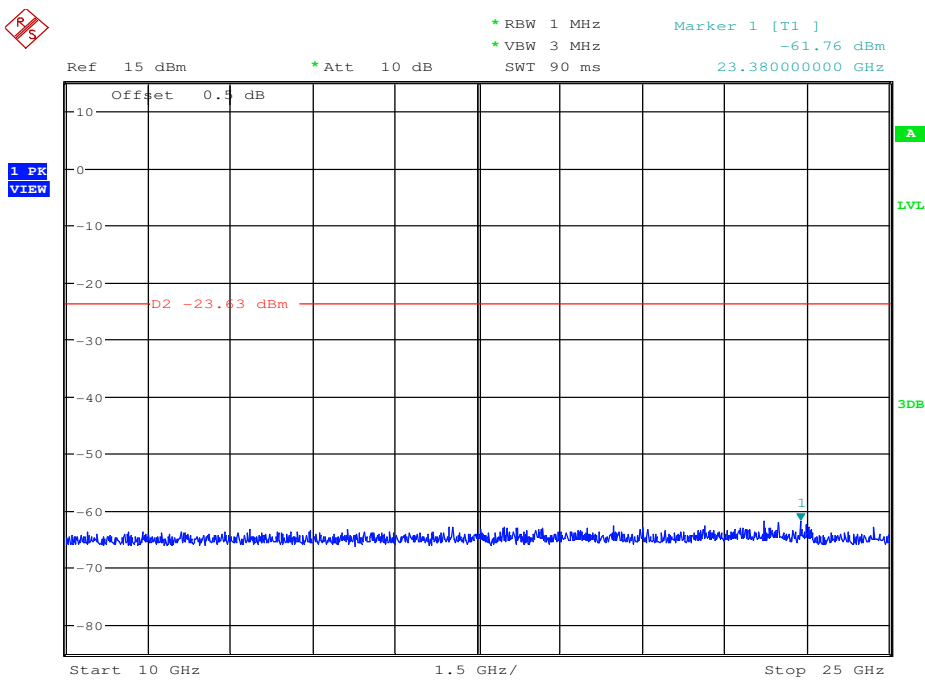
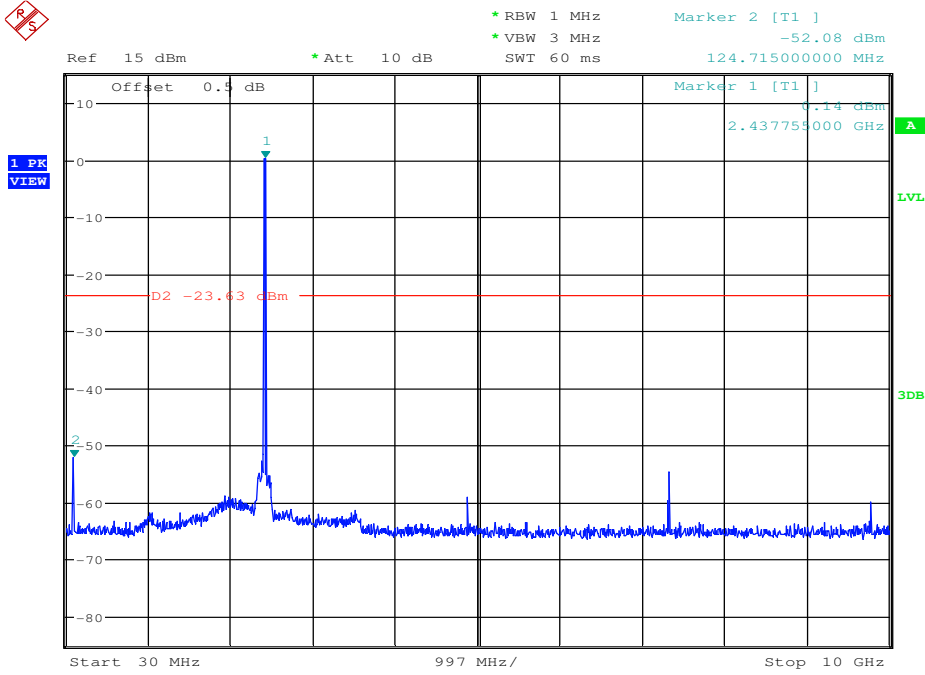


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CSE_2

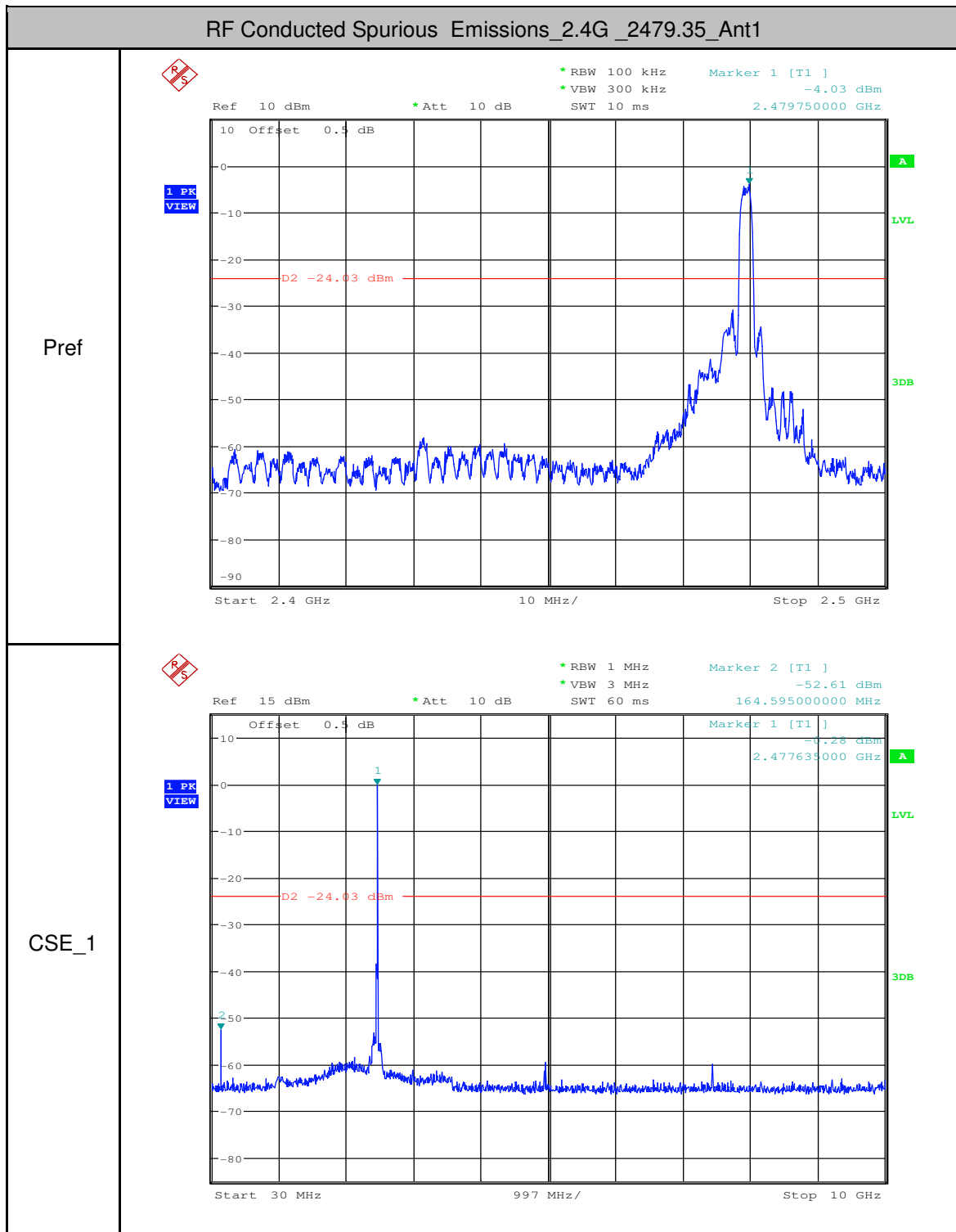


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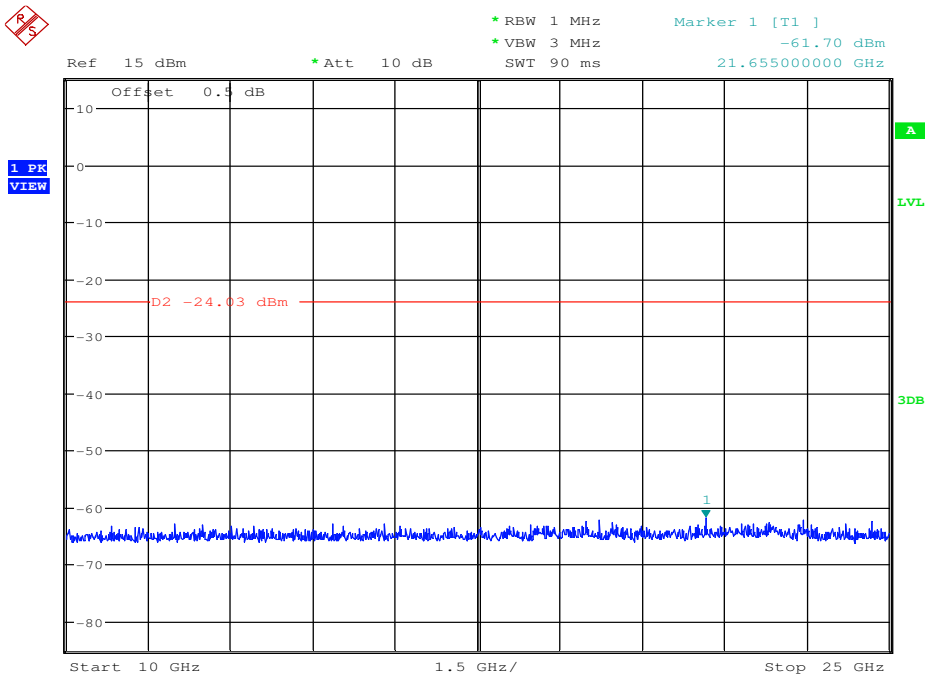
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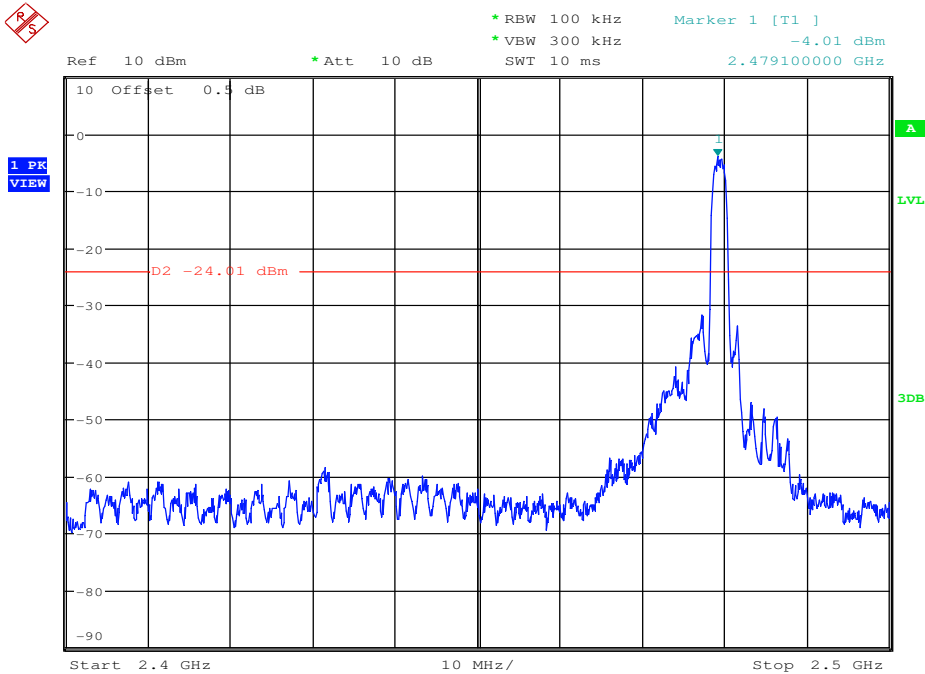
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CSE_2

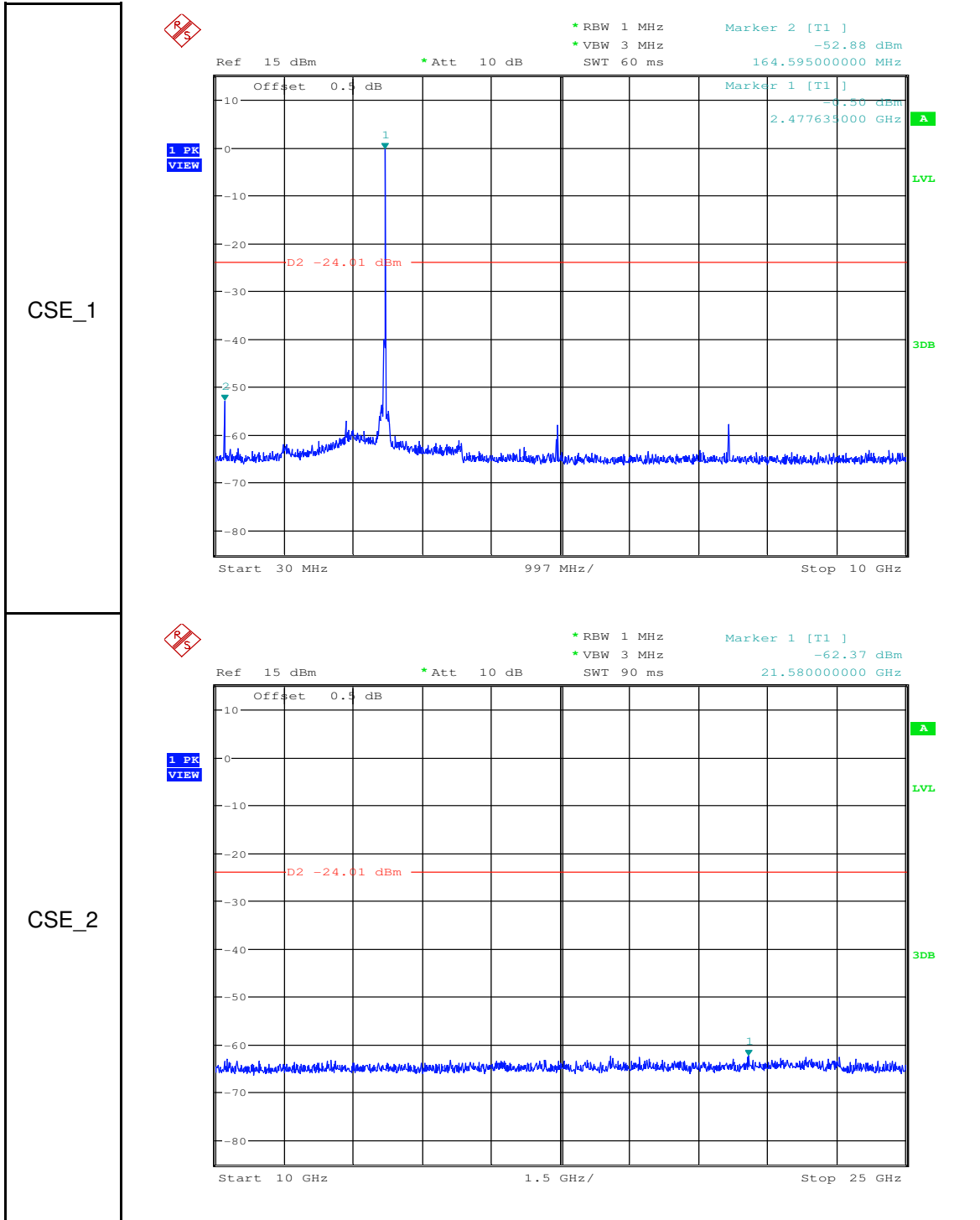


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