CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

EUT 1 NAME: JV31

EUT 1 MODEL NUMBER: JV31

EUT 2 NAME: JV32

EUT 2 MODEL NUMBER: JV32

REPORT NUMBER: 4791262574-RF-1

ISSUE DATE: September 19, 2024

FCC ID: SS3-JV312406

Prepared for

SZ DJI Technology Co Ltd
Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	September 19, 2024	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	/	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	N/A
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

Note:
1. N/A: In this whole report not applicable, the EUT can't operate during charging.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C > when <Simple Acceptance> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	SZ DJI TECHNOLOGY CO., LTD
Address:	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.

Manufacturer Information

Company Name:	SZ DJI TECHNOLOGY CO., LTD
Address:	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China.

EUT Information

EUT 1 Name:	JV31
EUT 1 Model Number:	JV31
EUT 2 Name:	JV32
EUT 2 Model Number:	JV32
Model Difference:	Please refer to Model difference statement
Brand Name:	DJI
Sample Received Date:	May 9, 2024
Sample ID:	7197784
Date of Tested:	May 30, 2024 to September 19, 2024

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 15 SUBPART C	**Pass**

Prepared By:

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Checked By:

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Senior Project Engineer

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Stephen Guo

Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155

Note 1:
All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:
The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd.
Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:
For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT 1 Name	JV31
EUT 1 Model Number	JV31
EUT 2 Name	JV32
EUT 2 Model Number	JV32
Model Difference	Please refer to Model difference statement

Radio Technology	SRD 2.4 GHz
Operation Frequency	2.4 GHz 10 MHz Bandwidth (2407.5 MHz ~ 2467.5 MHz) 2.4 GHz 20 MHz Bandwidth (2412.5 MHz ~ 2462.5 MHz) 2.4 GHz 40 MHz Bandwidth (2422.5 MHz ~ 2452.5 MHz) 2.4 GHz 60 MHz Bandwidth (2432.5 MHz ~ 2442.5 MHz)
Modulation	OFDM (QPSK, 16QAM, 64QAM)
Battery	DC 14.76 V
Power Supply	DC 5 V

5.2. MAXIMUM OUTPUT POWER

SRD 2.4 GHz	Frequency (MHz)	Channel Number	Maximum Conducted Average Output Power (dBm)	EIRP (dBm)
10 MHz Mode	2407.5 MHz ~ 2467.5 MHz	1-61[61]	28.64	29.74
20 MHz Mode	2412.5 MHz ~ 2462.5 MHz	1-51[51]	28.85	29.95
40 MHz Mode	2422.5 MHz ~ 2452.5 MHz	1-31[31]	26.80	27.90
60 MHz Mode	2432.5 MHz ~ 2442.5 MHz	1-11[11]	25.54	26.64

5.3. CHANNEL LIST

2.4 GHz 10 MHz Bandwidth (2407.5 MHz ~ 2467.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2407.5	17	2423.5	33	2439.5	49	2455.5
2	2408.5	18	2424.5	34	2440.5	50	2456.5
3	2409.5	19	2425.5	35	2441.5	51	2457.5
4	2410.5	20	2426.5	36	2442.5	52	2458.5
5	2411.5	21	2427.5	37	2443.5	53	2459.5
6	2412.5	22	2428.5	38	2444.5	54	2460.5
7	2413.5	23	2429.5	39	2445.5	55	2461.5
8	2414.5	24	2430.5	40	2446.5	56	2462.5
9	2415.5	25	2431.5	41	2447.5	57	2463.5
10	2416.5	26	2432.5	42	2448.5	58	2464.5
11	2417.5	27	2433.5	43	2449.5	59	2465.5
12	2418.5	28	2434.5	44	2450.5	60	2466.5
13	2419.5	29	2435.5	45	2451.5	61	2467.5
14	2420.5	30	2436.5	46	2452.5	/	/
15	2421.5	31	2437.5	47	2453.5	/	/
16	2422.5	32	2438.5	48	2454.5	/	/

2.4 GHz 20 MHz Bandwidth (2412.5 MHz ~ 2462.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412.5	14	2425.5	27	2438.5	40	2451.5
2	2413.5	15	2426.5	28	2439.5	41	2452.5
3	2414.5	16	2427.5	29	2440.5	42	2453.5
4	2415.5	17	2428.5	30	2441.5	43	2454.5
5	2416.5	18	2429.5	31	2442.5	44	2455.5
6	2417.5	19	2430.5	32	2443.5	45	2456.5
7	2418.5	20	2431.5	33	2444.5	46	2457.5
8	2419.5	21	2432.5	34	2445.5	47	2458.5
9	2420.5	22	2433.5	35	2446.5	48	2459.5
10	2421.5	23	2434.5	36	2447.5	49	2460.5
11	2422.5	24	2435.5	37	2448.5	50	2461.5
12	2423.5	25	2436.5	38	2449.5	51	2462.5
13	2424.5	26	2437.5	39	2450.5	/	/

2.4 GHz 40 MHz Bandwidth (2422.5 MHz ~ 2452.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422.5	9	2430.5	17	2438.5	25	2446.5
2	2423.5	10	2431.5	18	2439.5	26	2447.5
3	2424.5	11	2432.5	19	2440.5	27	2448.5
4	2425.5	12	2433.5	20	2441.5	28	2449.5
5	2426.5	13	2434.5	21	2442.5	29	2450.5
6	2427.5	14	2435.5	22	2443.5	30	2451.5
7	2428.5	15	2436.5	23	2444.5	31	2452.5
8	2429.5	16	2437.5	24	2445.5	/	/

2.4 GHz 60 MHz Bandwidth (2432.5 MHz ~ 2442.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2432.5	4	2435.5	7	2438.5	10	2441.5
2	2433.5	5	2436.5	8	2439.5	11	2442.5
3	2434.5	6	2437.5	9	2440.5	/	/

5.4. TEST CHANNEL CONFIGURATION

SRD 2.4 GHz	Test Channel Number	Frequency
10 MHz Mode	CH 1(Low Channel), CH 2, CH 3, CH 4, CH 31(MID Channel), CH 61(High Channel)	2407.5 MHz, 2408.5 MHz, 2409.5 MHz, 2410.5 MHz, 2437.5 MHz, 2467.5 MHz
20 MHz Mode	CH 1(Low Channel), CH 2, CH 3, CH 26(MID Channel), CH 51(High Channel)	2412.5 MHz, 2413.5 MHz, 2414.5 MHz, 2437.5 MHz, 2462.5 MHz
40 MHz Mode	CH 1(Low Channel), CH3, CH 16(MID Channel), CH 31(High Channel)	2422.5 MHz, 2424.5 MHz, 2437.5 MHz, 2452.5 MHz
60 MHz Mode	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2432.5 MHz, 2437.5 MHz, 2442.5 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5 MHz Band				
Test Software		DjiSRDConsole		
Modulation Mode	Transmit Antenna Number	Test Software setting value		
		NCB: 10 MHz/20 MHz/40 MHz/60 MHz		
		Low Channel	MID Channel	High Channel
All	0	Default	Default	Default
	1	Default	Default	Default
	2	Default	Default	Default
	3	Default	Default	Default
	4	Default	Default	Default
	5	Default	Default	Default
	6	Default	Default	Default
	7	Default	Default	Default

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
0	2400 ~ 2483.5	Dipole	1.10
1	2400 ~ 2483.5	Dipole	1.10
2	2400 ~ 2483.5	Dipole	1.10
3	2400 ~ 2483.5	Dipole	1.10
4	2400 ~ 2483.5	Dipole	1.10
5	2400 ~ 2483.5	Dipole	1.10
6	2400 ~ 2483.5	Dipole	1.50
7	2400 ~ 2483.5	Dipole	1.50

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the STBC mode results the Directional Gain was calculated in accordance with the following mothed.

For output power measurements:
Directional gain= G_{ANT} + Array Gain = G_{ANT}
G_{ANT}: equal to the gain of the antenna having the highest gain
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:
Directional gain= G_{ANT} + Array Gain = G_{ANT}
G_{ANT}: equal to the gain of the antenna having the highest gain
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

Test Mode	Transmit and Receive Mode	Description
10 MHz Mode	☒ 2TX, 4RX	ANT 0 ~ 7 can be used as transmitting and receiving antenna.
20 MHz Mode	☒ 2TX, 4RX	ANT 0 ~ 7 can be used as transmitting and receiving antenna.
40 MHz Mode	☒ 2TX, 4RX	ANT 0 ~ 7 can be used as transmitting and receiving antenna.
60 MHz Mode	☒ 2TX, 4RX	ANT 0 ~ 7 can be used as transmitting and receiving antenna.

Note: 1. The value of the antenna gain was declared by customer.
2. The EUT can't transmit simultaneously.
3. Only the following antenna groups support MIMO mode: 【0,1】【0,3】【0,5】【0,7】【2,1】【2,3】【2,5】【2,7】【4,1】【4,3】【4,5】【4,7】【6,1】【6,3】【6,5】【6,7】.

5.7. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst case Data Rates declared by the customer:

SRD 2.4 GHz-10 MHz Mode/QPSK
SRD 2.4 GHz-20 MHz Mode/QPSK
SRD 2.4 GHz-40 MHz Mode/QPSK
SRD 2.4 GHz-60 MHz Mode/QPSK

The EUT has 8 separate antennas which correspond to 8 separate antenna ports. Core 0, Core 1, Core 2, Core 3, Core 4, Core 5, Core 6, Core 7 correspond to antenna 0, antenna 1, antenna 2, antenna 3, antenna 4, antenna 5, antenna 6 and antenna 7 respectively, Only the following antenna groups support MIMO mode: 【0,1】【0,3】【0,5】【0,7】【2,1】【2,3】【2,5】【2,7】【4,1】【4,3】【4,5】【4,7】【6,1】【6,3】【6,5】【6,7】.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

For radiated test, all the MIMO mode for different supported antenna groups were tested, but only the worst data was recorded in the report.

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	/
2	Adapter Power	DJI	PD-65CN	Input: AC 100 ~ 240 V, 50/60 Hz, 2.0 A Output: DC 5 V, 5 A

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	Type C	Unshielded	1.0	/

ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a laptop.

SETUP DIAGRAM FOR TESTS

6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Mar.25,2024	Mar.24,2025
Vector Signal Generator	R&S	SMBV100A	261637	Oct.12, 2023	Oct.11, 2024
Signal Generator	R&S	SMB100A	178553	Oct.12, 2023	Oct.11, 2024
Signal Analyzer	R&S	FSV40	101118	Oct.12, 2023	Oct.11, 2024
Software					
Description	Manufacturer	Name	Version		
For R&S TS 8997 Test System	Rohde & Schwarz	EMC 32	10.60.10		

Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.25, 2023	Sep.24, 2024
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.12, 2023	Oct.11, 2024
DC power supply	Keysight	E3642A	MY55159130	Oct.12, 2023	Oct.11, 2024
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.12, 2023	Oct.11, 2024
Attenuator	Aglient	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024
RF Control Unit	Tonscend	JS0806-2	23B80620666	Mar.25,2024	Mar.24,2025
Software					
Description	Manufacturer	Name	Version		
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System	V3.2.22		

Radiated Emissions						
Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	/	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug.02, 2021	June 28, 2024	June 27, 2027
Preamplifier	HP	8447D	2944A09099	/	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	/	Oct.12, 2023	Oct.11, 2024
Horn Antenna	TDK	HRN-0118	130939	/	Apr.29, 2022	Apr.28, 2025
Preamplifier	TDK	PA-02-0118	TRS-305-00067	/	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	June 30, 2024	June 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	/	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308-00002	/	Oct.12, 2023	Oct.11, 2024
Loop antenna	Schwarzbeck	1519B	00008	/	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	/	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	/	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	/	Oct.12, 2023	Oct.11, 2024

Software			
Description	Manufacturer	Name	Version
Test Software for Radiated Emissions	Farad	EZ-EMC	Ver. UL-3A1

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

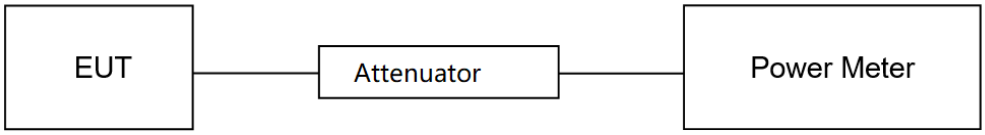
CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).
Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.
The test result in dBm by adding [10 log (1 / D)], where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.9℃	Relative Humidity	64.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 14.76 V

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

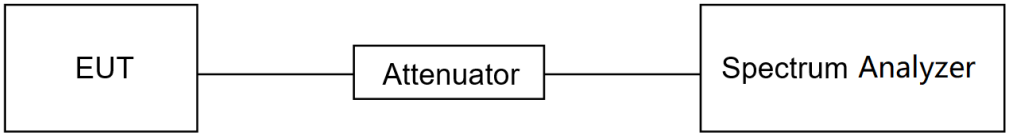
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.9℃	Relative Humidity	64.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 14.76 V

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

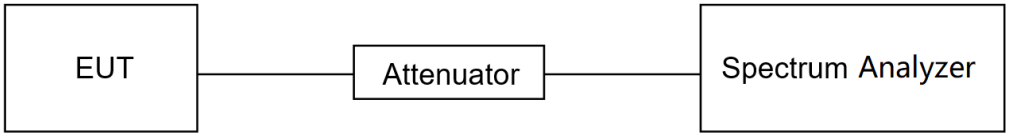
Refer to ANSI C63.10-2013 clause 11.10.5.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x OBW bandwidth
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.9℃	Relative Humidity	64.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 14.76 V

TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

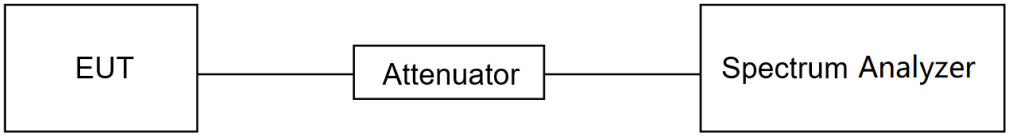
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.
Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.9℃	Relative Humidity	64.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 14.76 V

TEST RESULTS

Please refer to section "Test Data" - Appendix E&F

7.5. DUTY CYCLE

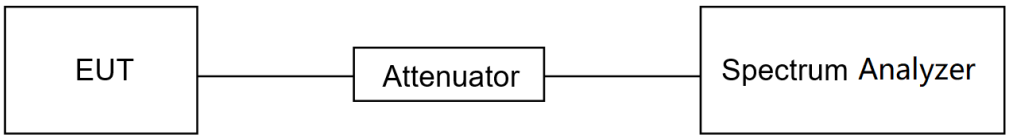
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.9℃	Relative Humidity	64.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 14.76 V

TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
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

FCC Restricted bands of operation refer to FCC §15.205 (a):

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])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, the initial step in collecting conducted 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 re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

For Restricted Bandedge:
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5

For Radiate Spurious Emission (30 MHz ~ 1 GHz):
Note:
1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

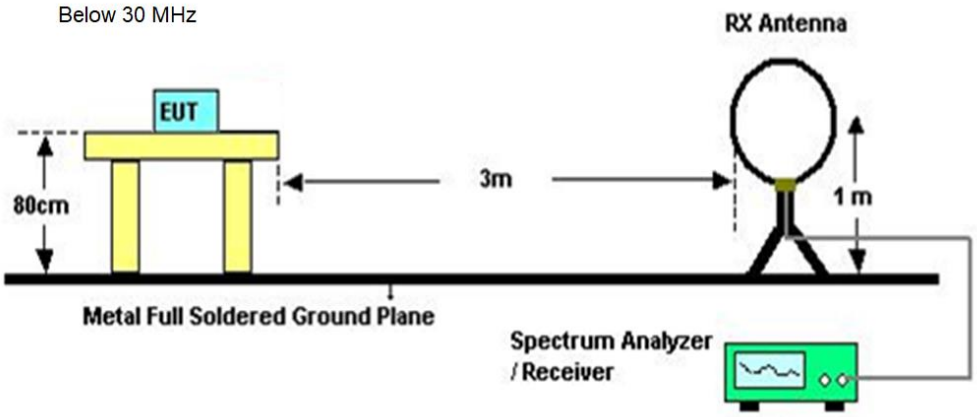
For Radiate Spurious Emission (1 GHz ~ 3 GHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):
Note:
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.
9.*-indicates frequency is out of the restricted bands and the limit is referring to 15.247 (d) and RSS-247 clause 5.5. We had already performed the conducted non-restricted bands test, please refer to clause 7.4.

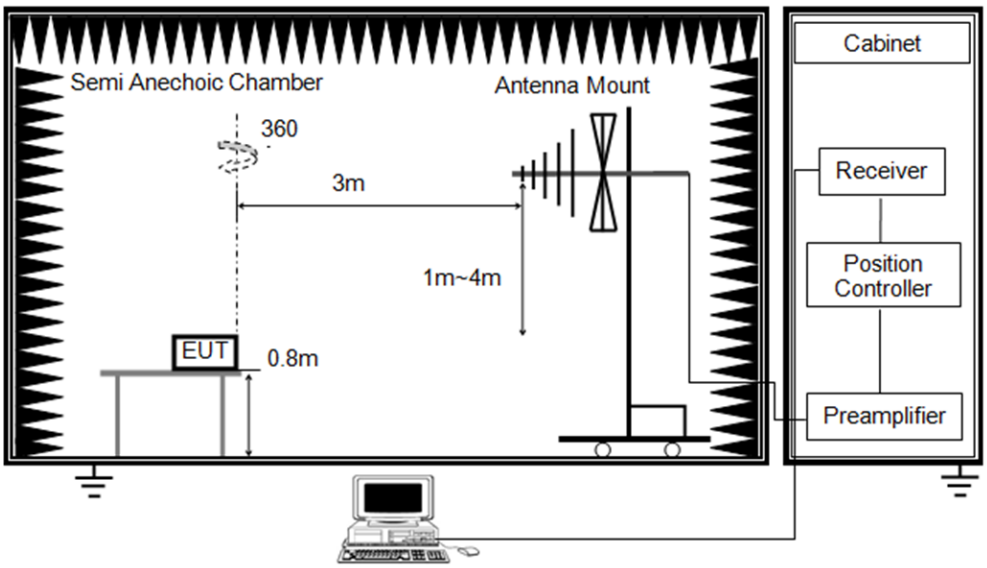
For Radiate Spurious emission (18 GHz ~ 26 GHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

TEST SETUP

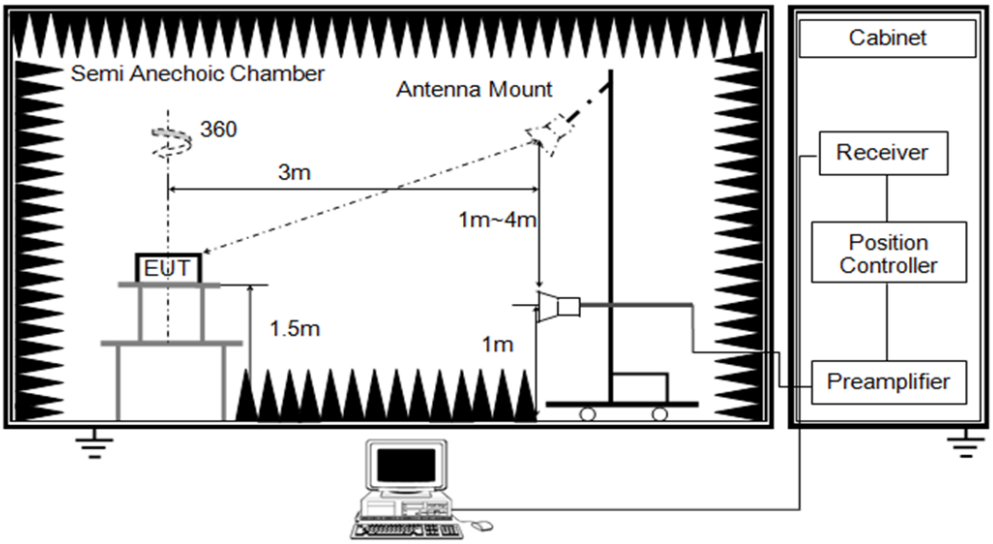
Below 30 MHz



Below 1 GHz and above 30 MHz



Above 1 GHz



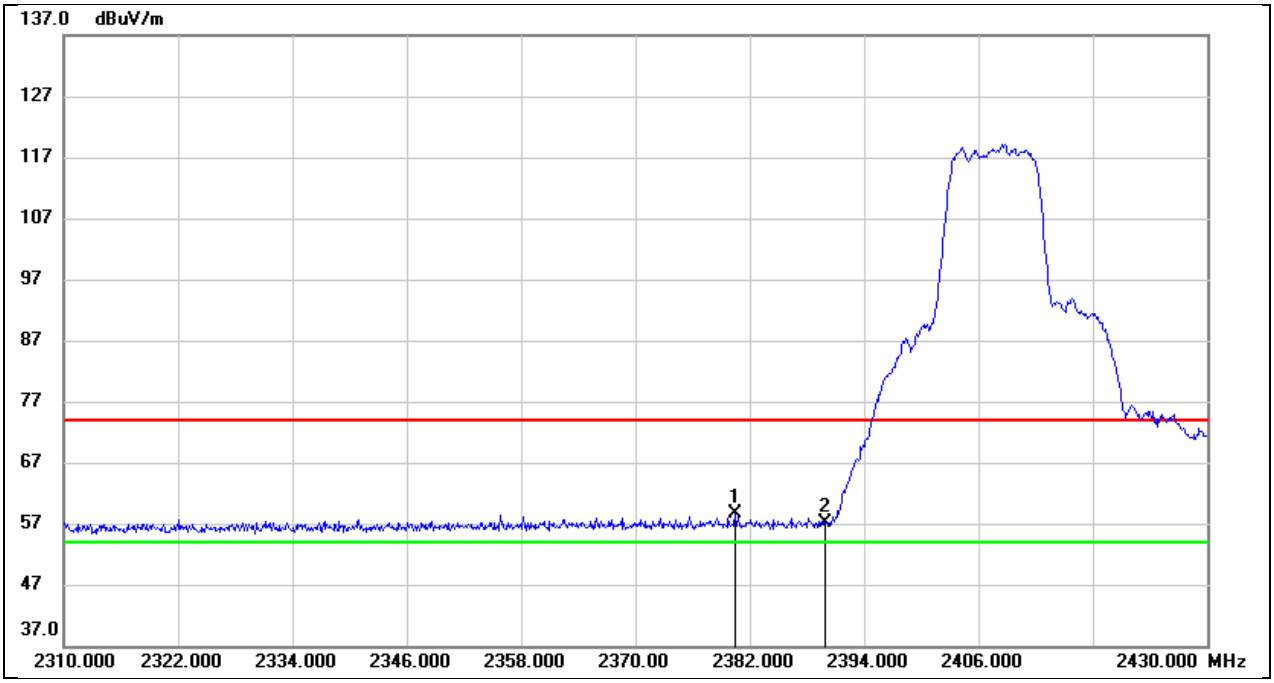
TEST ENVIRONMENT

Temperature	22.7℃	Relative Humidity	60.8%
Atmosphere Pressure	101kPa	Test Voltage	

TEST RESULTS

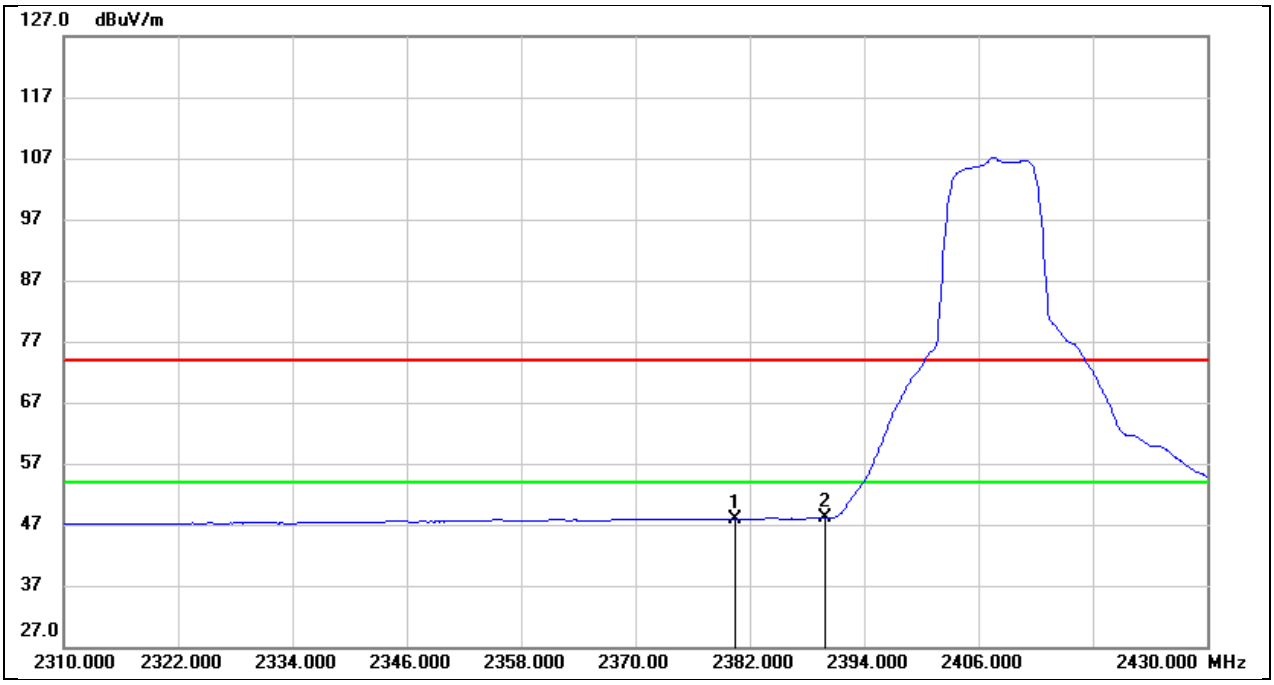
8.1. RESTRICTED BANDEDGE

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2407.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



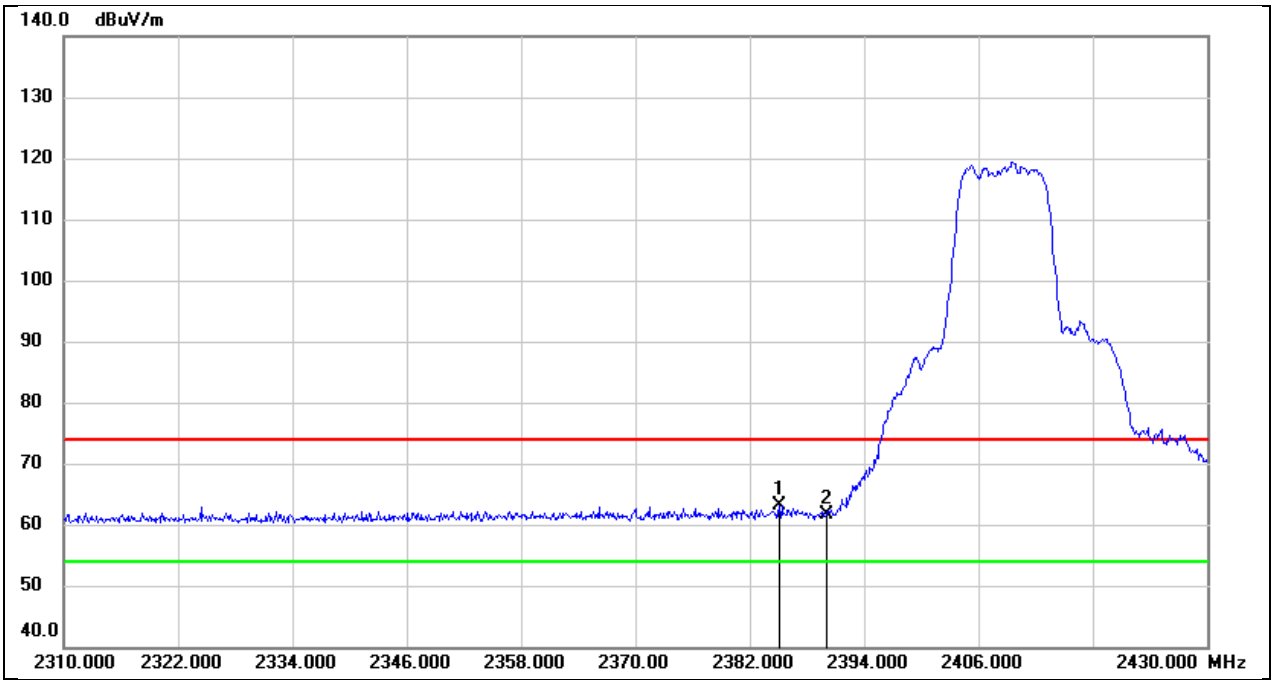
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.440	25.76	32.87	58.63	74.00	-15.37	peak
2	2390.000	24.22	32.92	57.14	74.00	-16.86	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2407.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



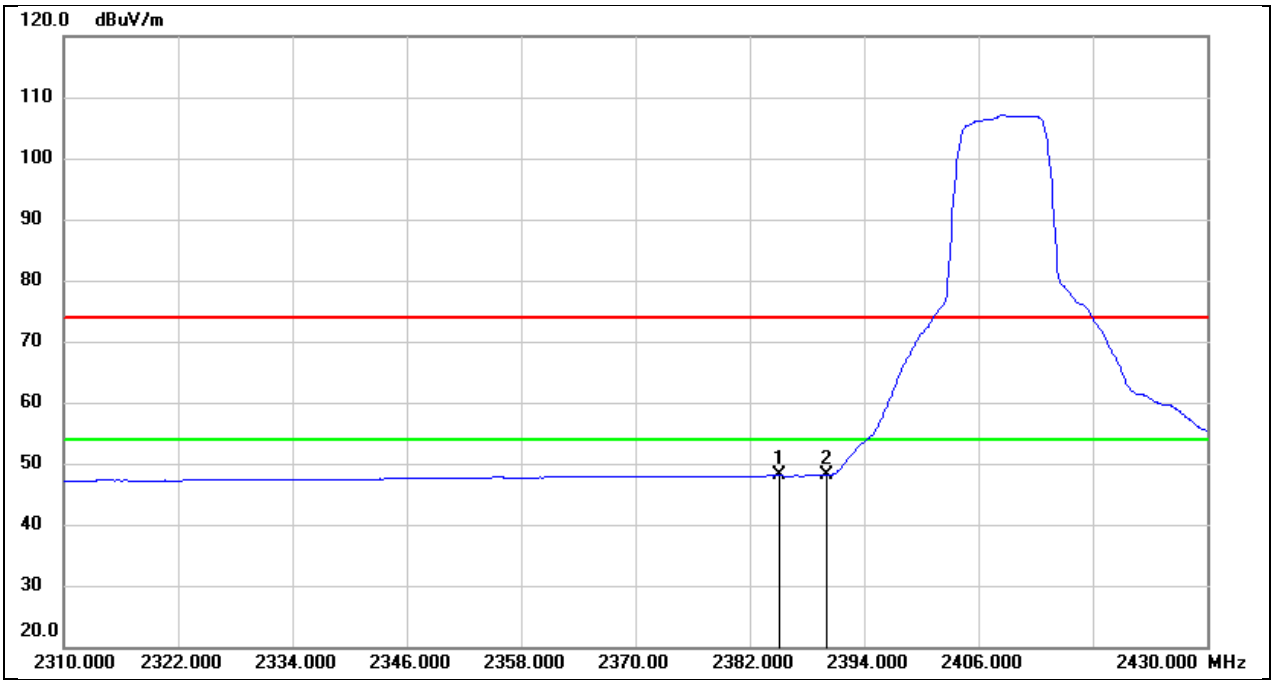
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.440	15.04	32.87	47.91	54.00	-6.09	AVG
2	2390.000	15.14	32.92	48.06	54.00	-5.94	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2408.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



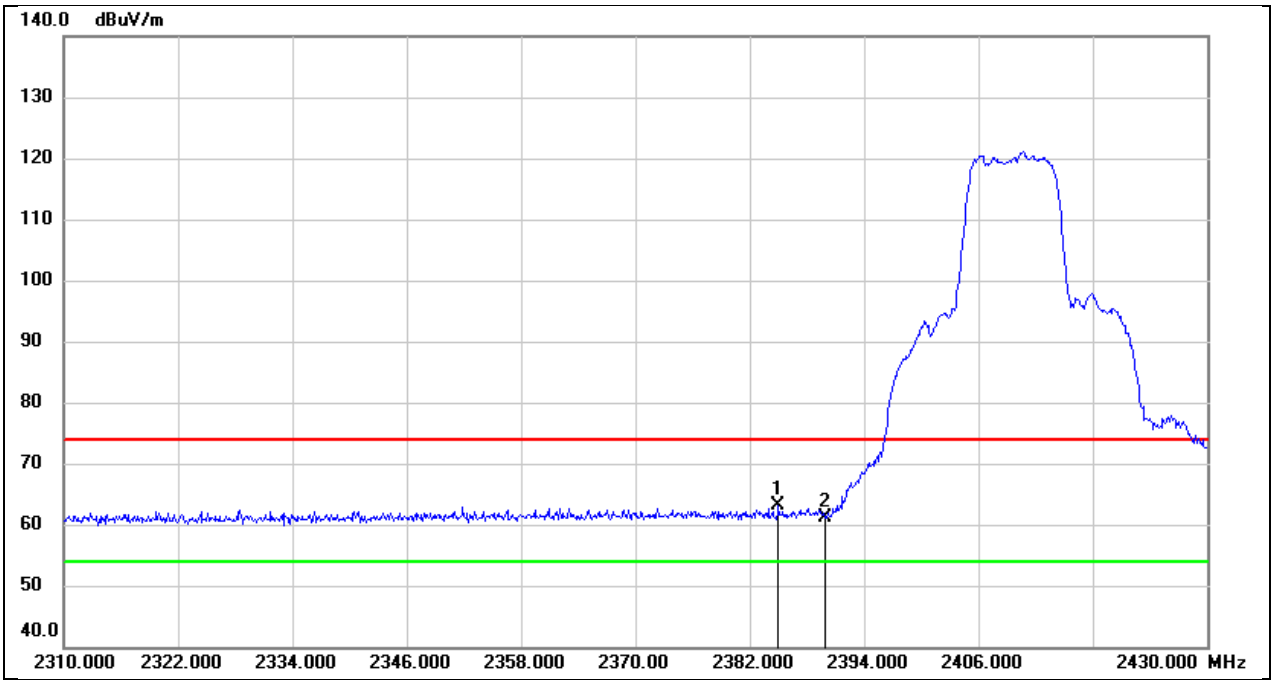
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.120	30.31	32.90	63.21	74.00	-10.79	peak
2	2390.000	28.76	32.92	61.68	74.00	-12.32	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2408.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



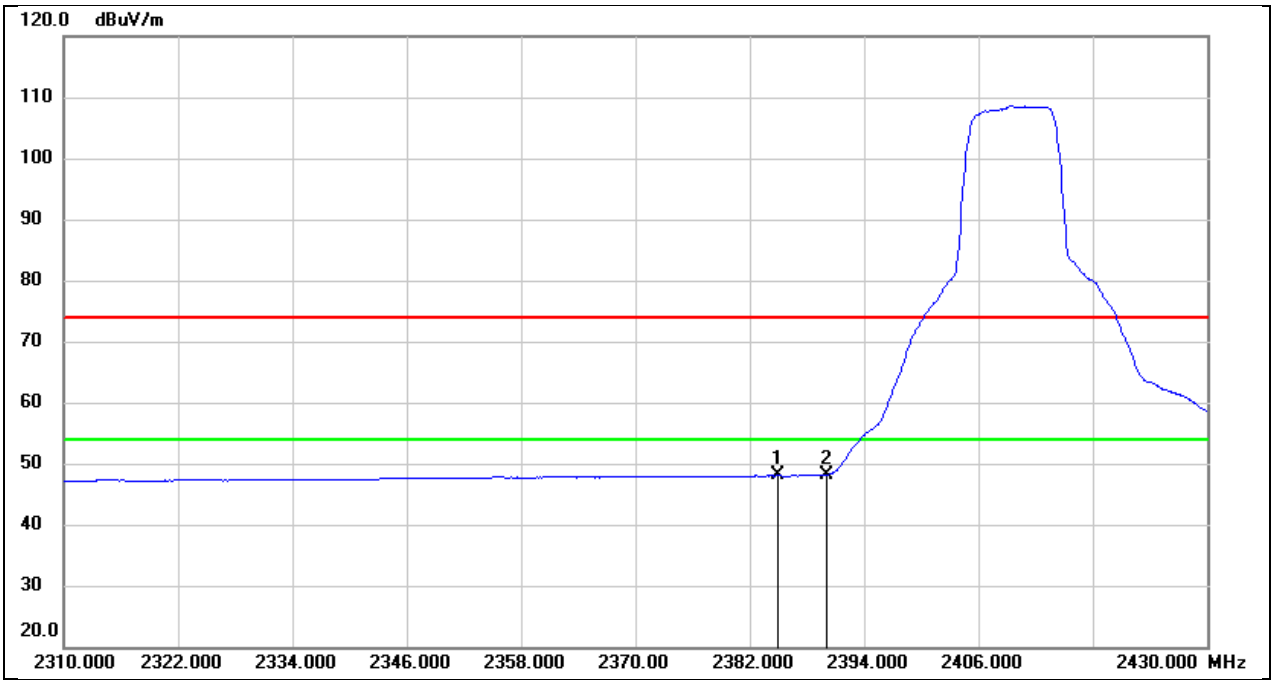
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.120	15.14	32.90	48.04	54.00	-5.96	AVG
2	2390.000	15.16	32.92	48.08	54.00	-5.92	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2409.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



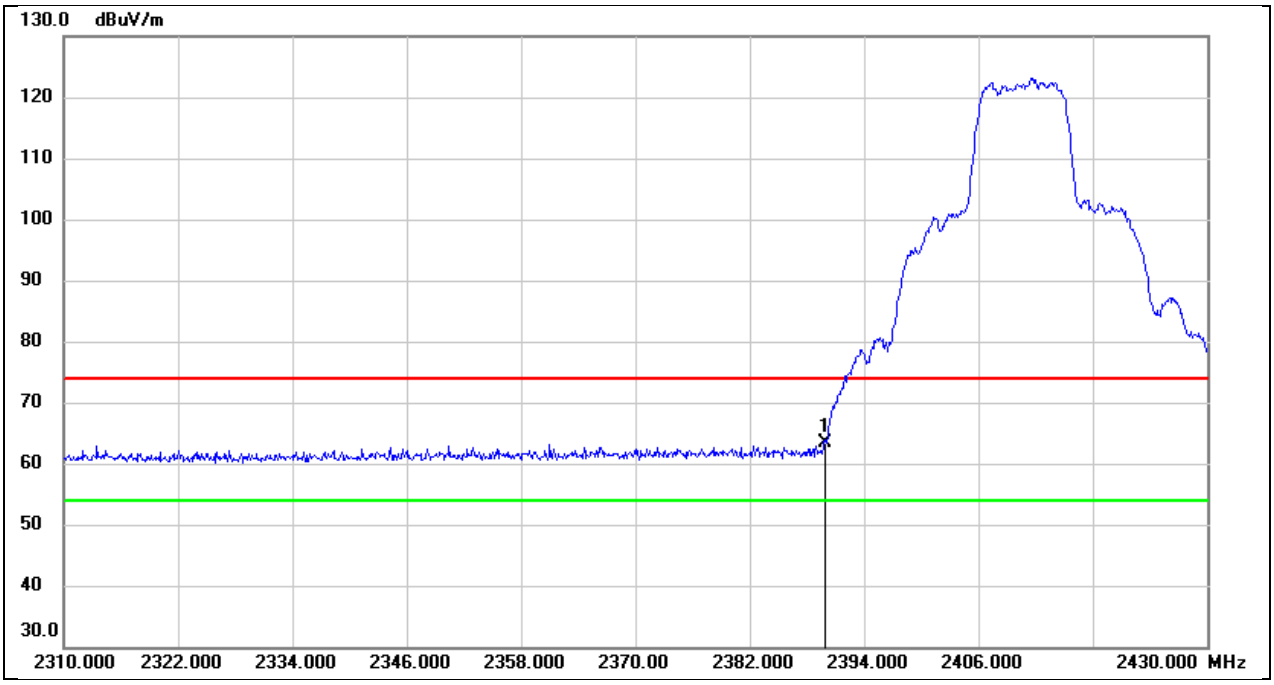
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.000	30.22	32.90	63.12	74.00	-10.88	peak
2	2390.000	28.17	32.92	61.09	74.00	-12.91	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2409.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



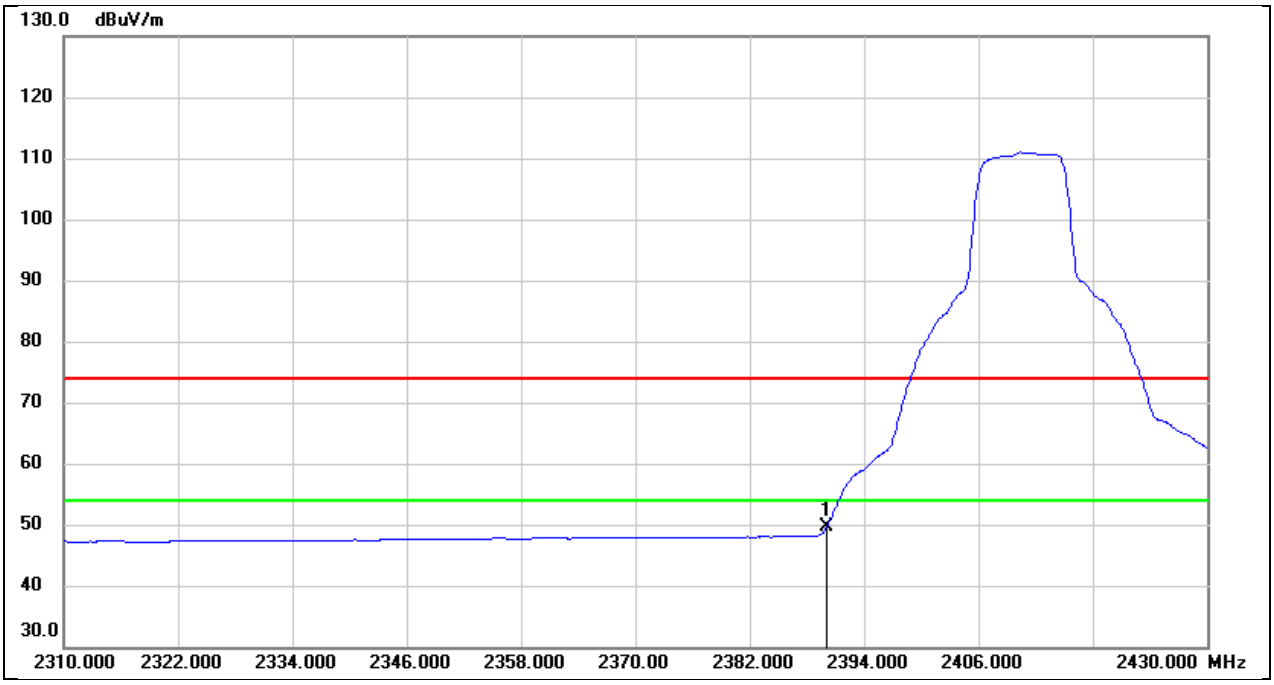
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.000	15.15	32.90	48.05	54.00	-5.95	AVG
2	2390.000	15.19	32.92	48.11	54.00	-5.89	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2410.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



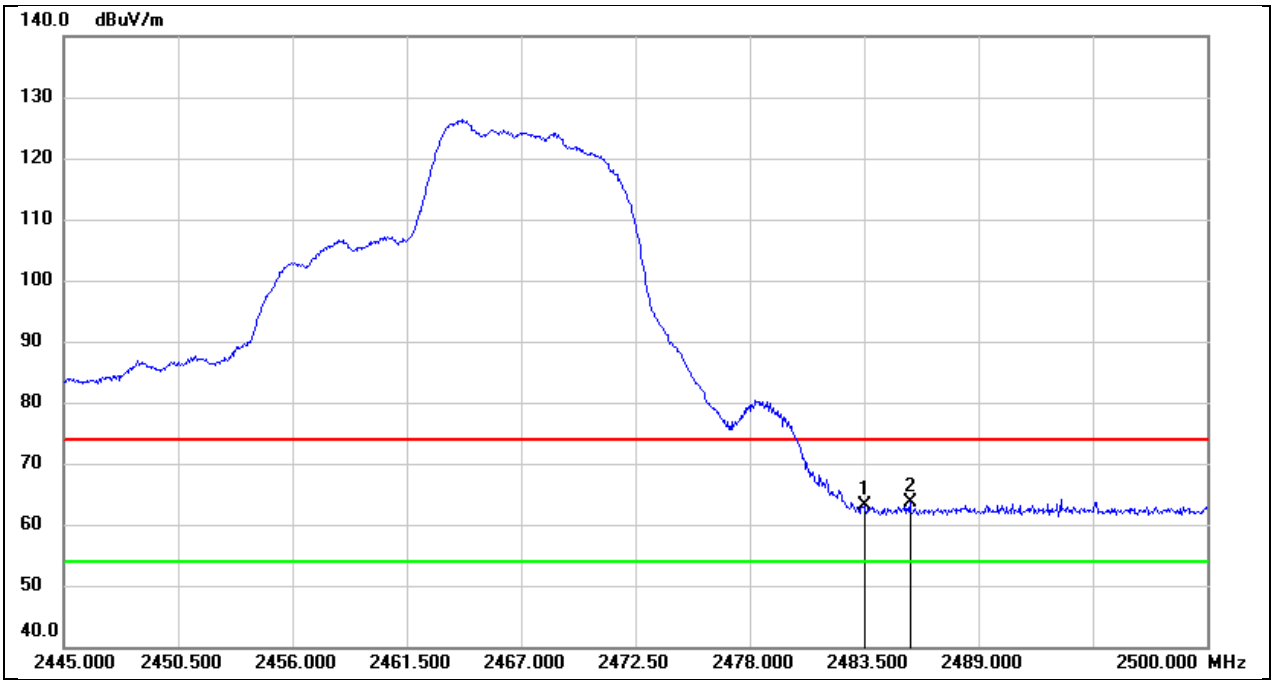
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	30.42	32.92	63.34	74.00	-10.66	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2410.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



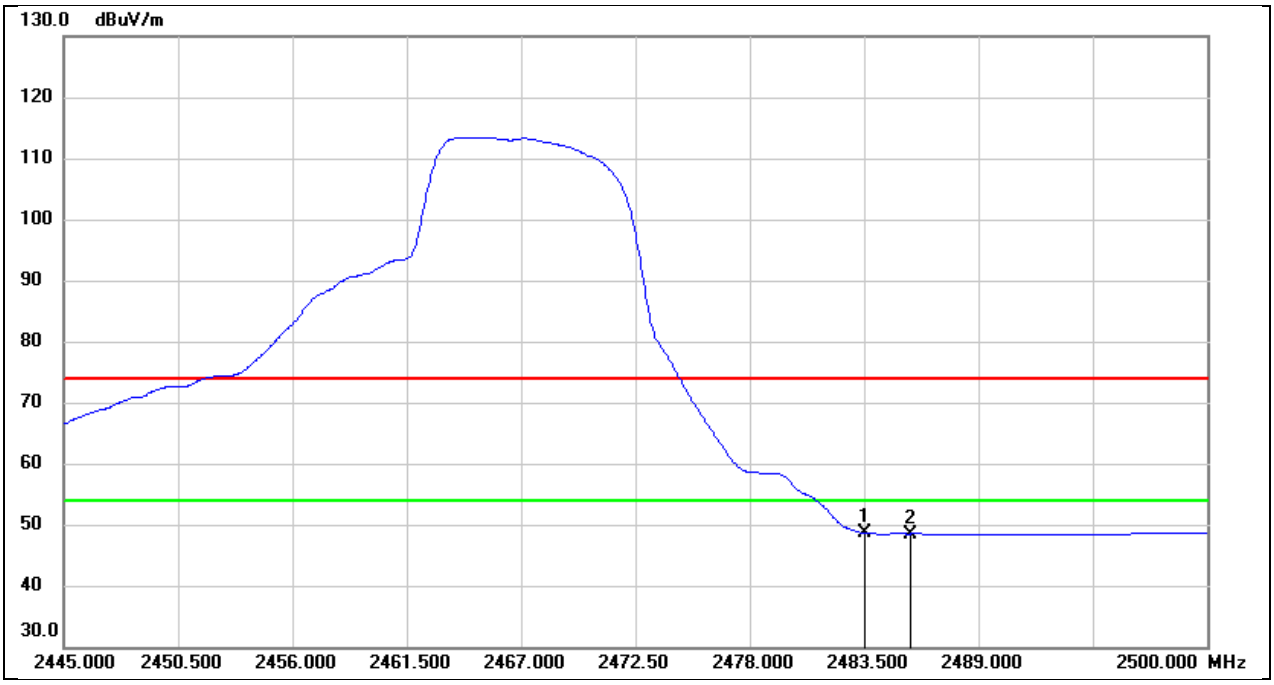
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	16.60	32.92	49.52	54.00	-4.48	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2467.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



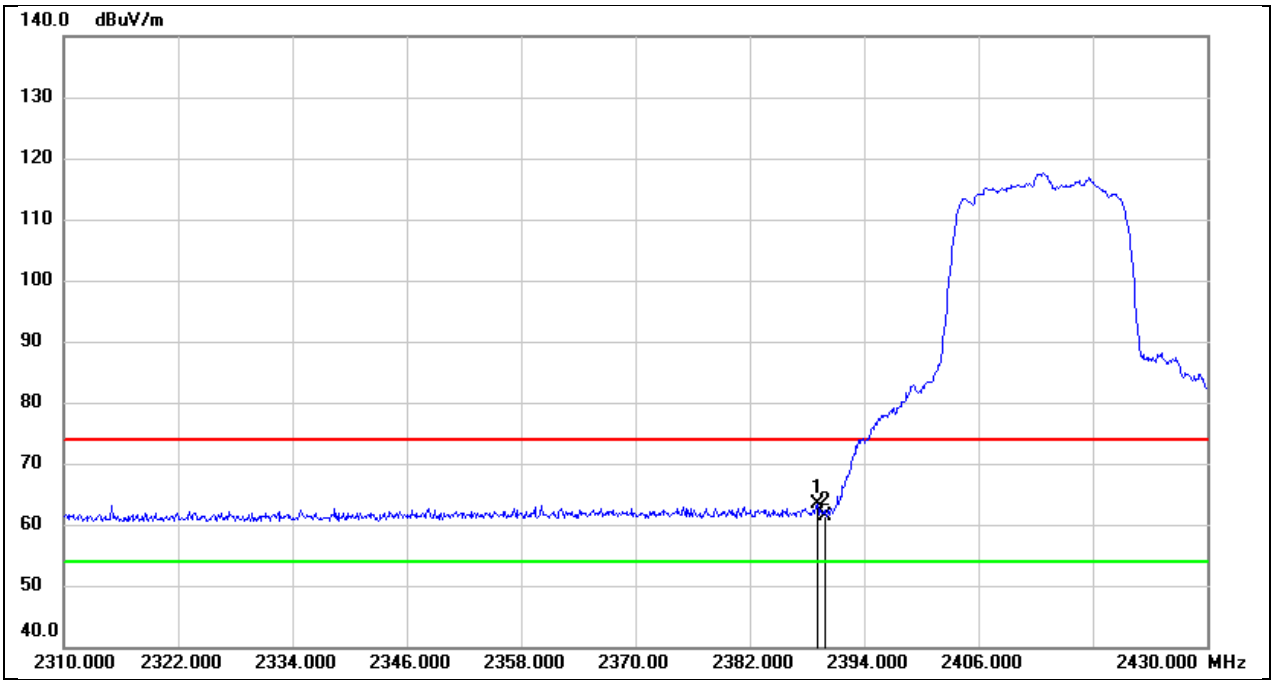
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	30.10	32.94	63.04	74.00	-10.96	peak
2	2485.700	30.63	32.93	63.56	74.00	-10.44	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2467.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



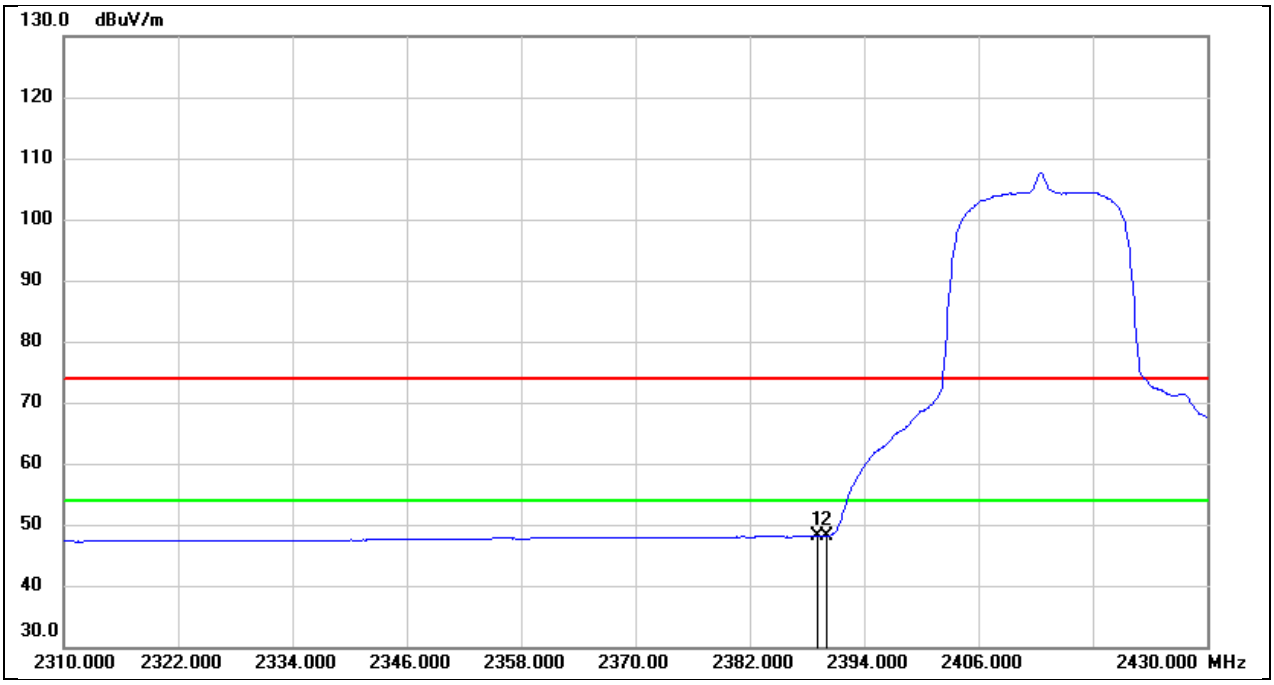
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.80	32.94	48.74	54.00	-5.26	AVG
2	2485.700	15.57	32.93	48.50	54.00	-5.50	AVG

Test Mode:	SRD 20MHz PK	Frequency(MHz):	2412.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



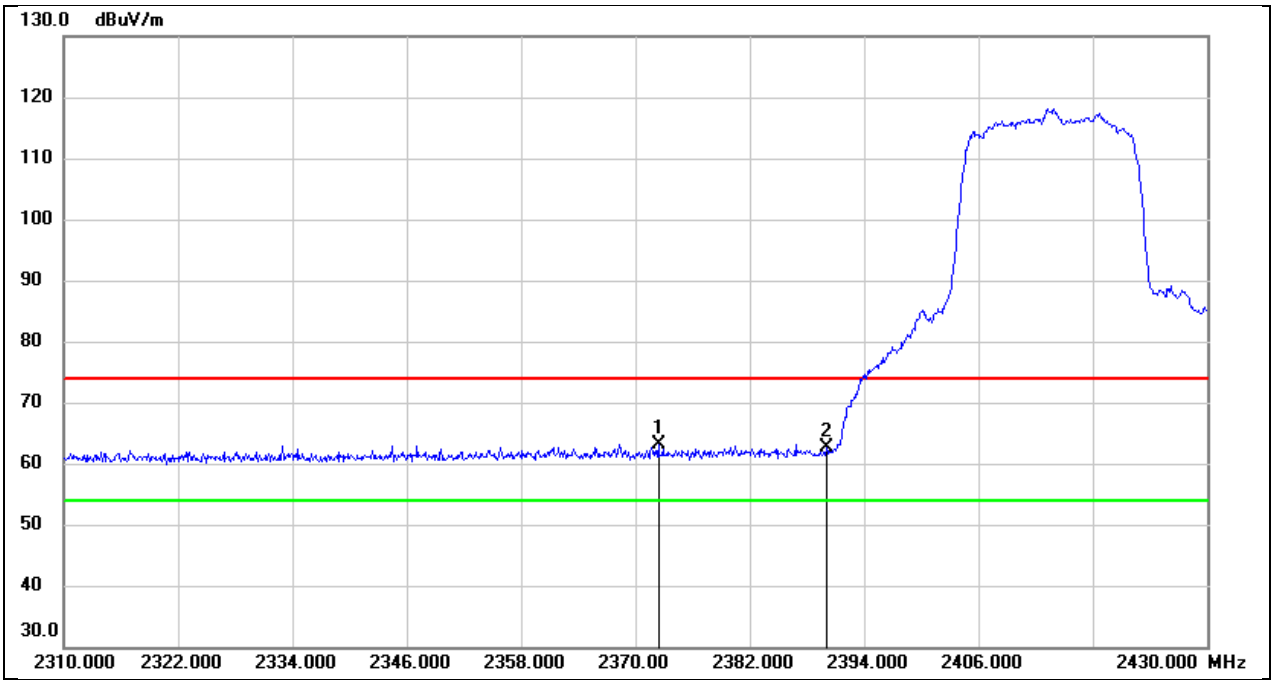
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.080	30.46	32.92	63.38	74.00	-10.62	peak
2	2390.000	28.42	32.92	61.34	74.00	-12.66	peak

Test Mode:	SRD 20MHz AV	Frequency(MHz):	2412.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



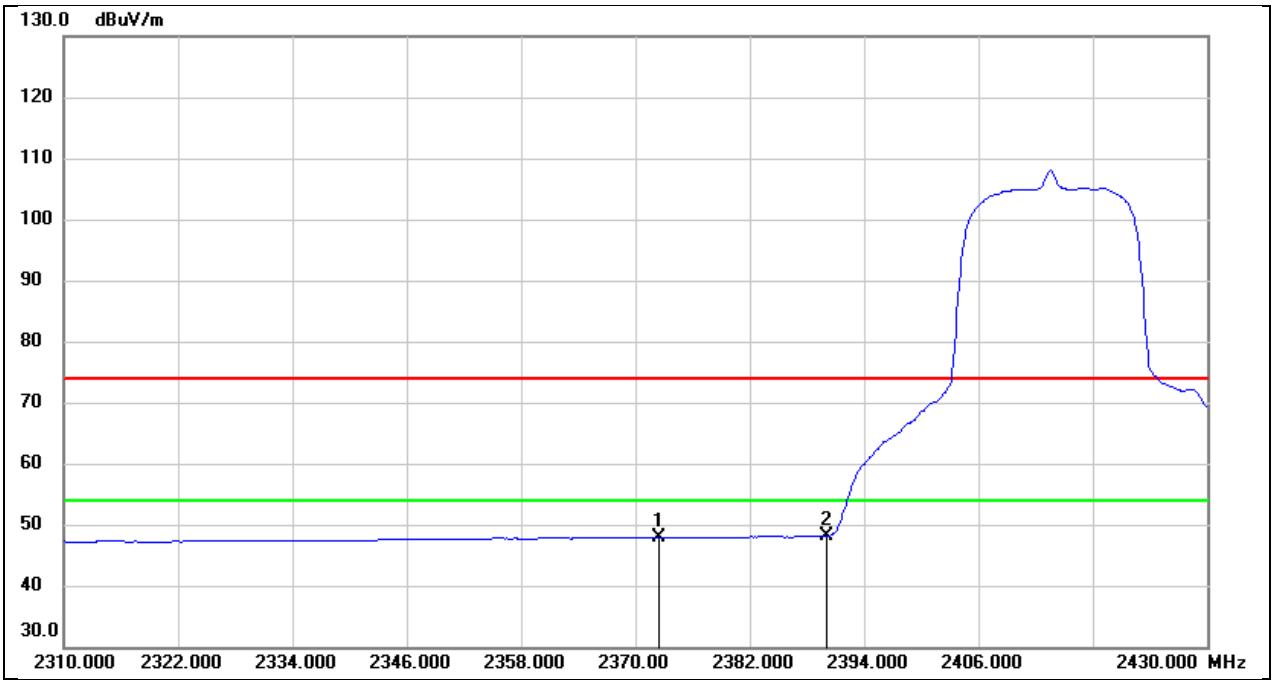
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.080	15.23	32.92	48.15	54.00	-5.85	AVG
2	2390.000	15.22	32.92	48.14	54.00	-5.86	AVG

Test Mode:	SRD 20MHz PK	Frequency(MHz):	2413.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



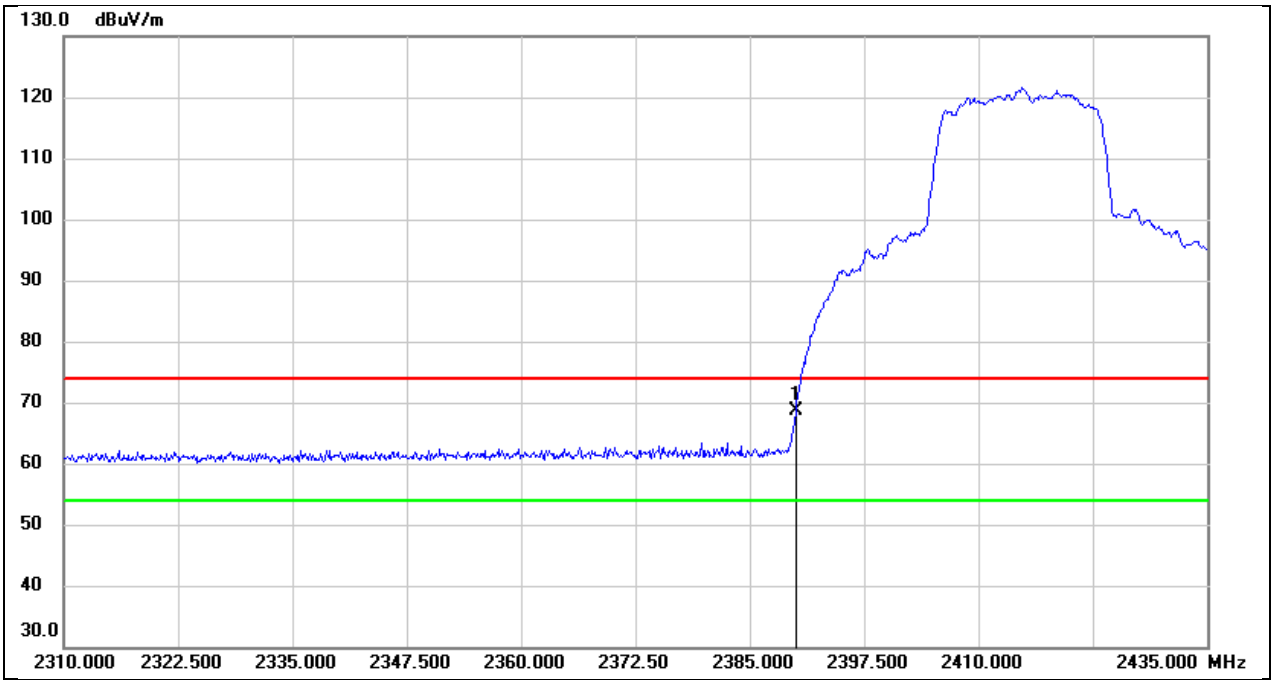
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2372.400	30.38	32.83	63.21	74.00	-10.79	peak
2	2390.000	29.60	32.92	62.52	74.00	-11.48	peak

Test Mode:	SRD 20MHz AV	Frequency(MHz):	2413.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



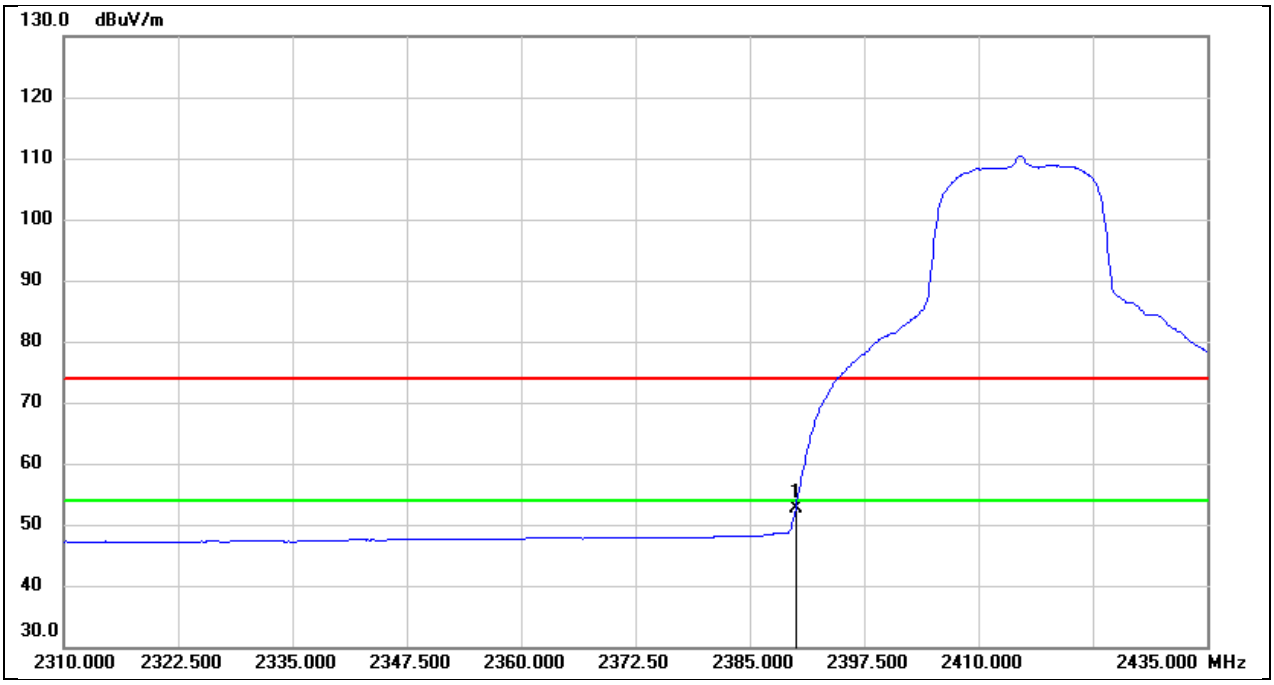
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2372.400	15.07	32.83	47.90	54.00	-6.10	AVG
2	2390.000	15.25	32.92	48.17	54.00	-5.83	AVG

Test Mode:	SRD 20MHz PK	Frequency(MHz):	2414.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



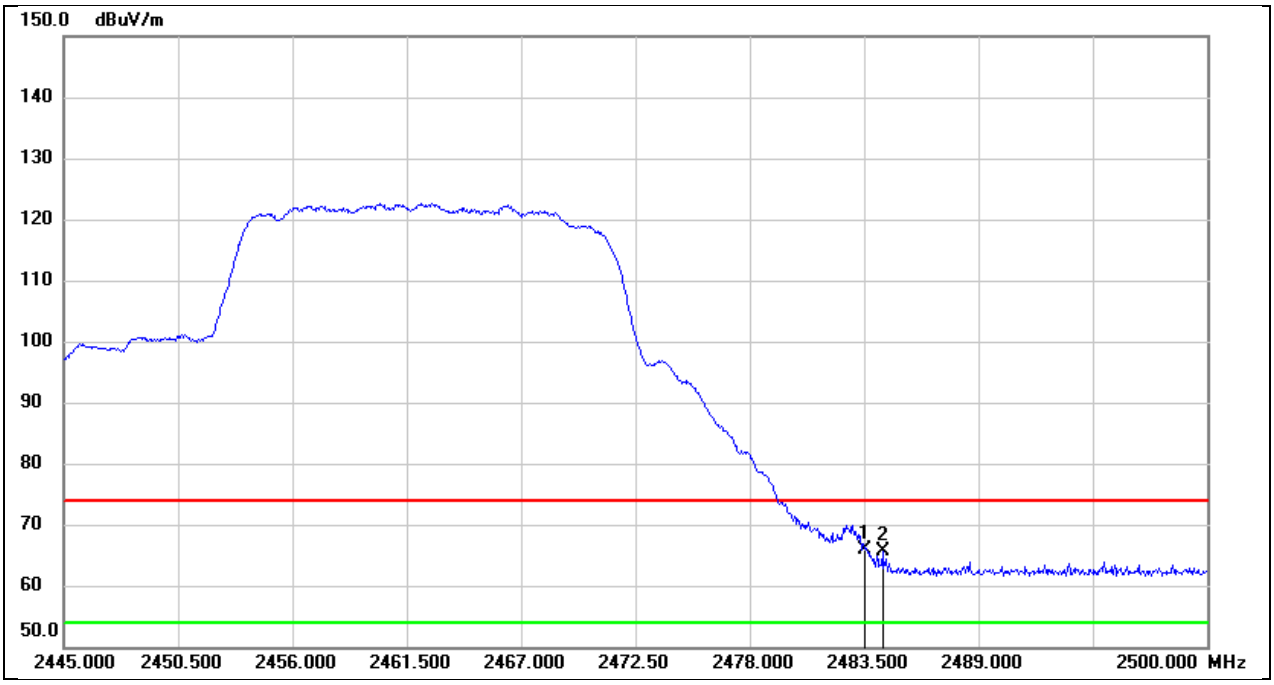
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	35.66	32.92	68.58	74.00	-5.42	peak

Test Mode:	SRD 20MHz AV	Frequency(MHz):	2414.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



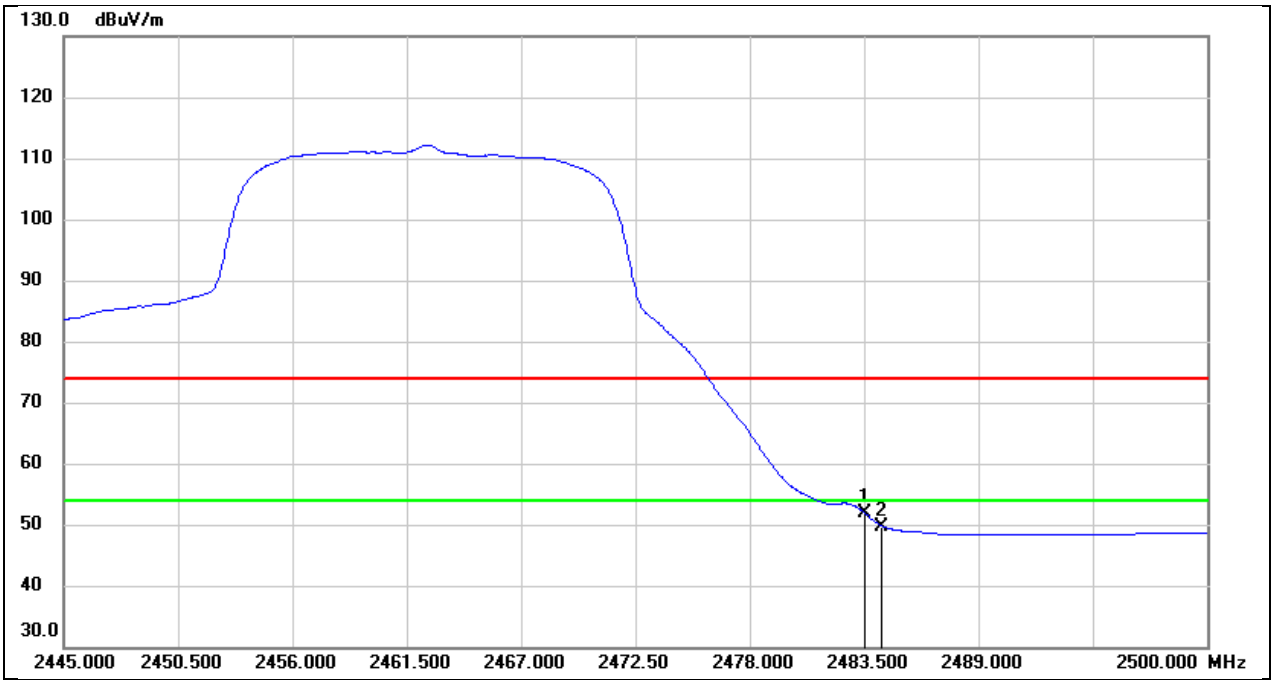
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	19.65	32.92	52.57	54.00	-1.43	AVG

Test Mode:	SRD 20MHz PK	Frequency(MHz):	2462.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



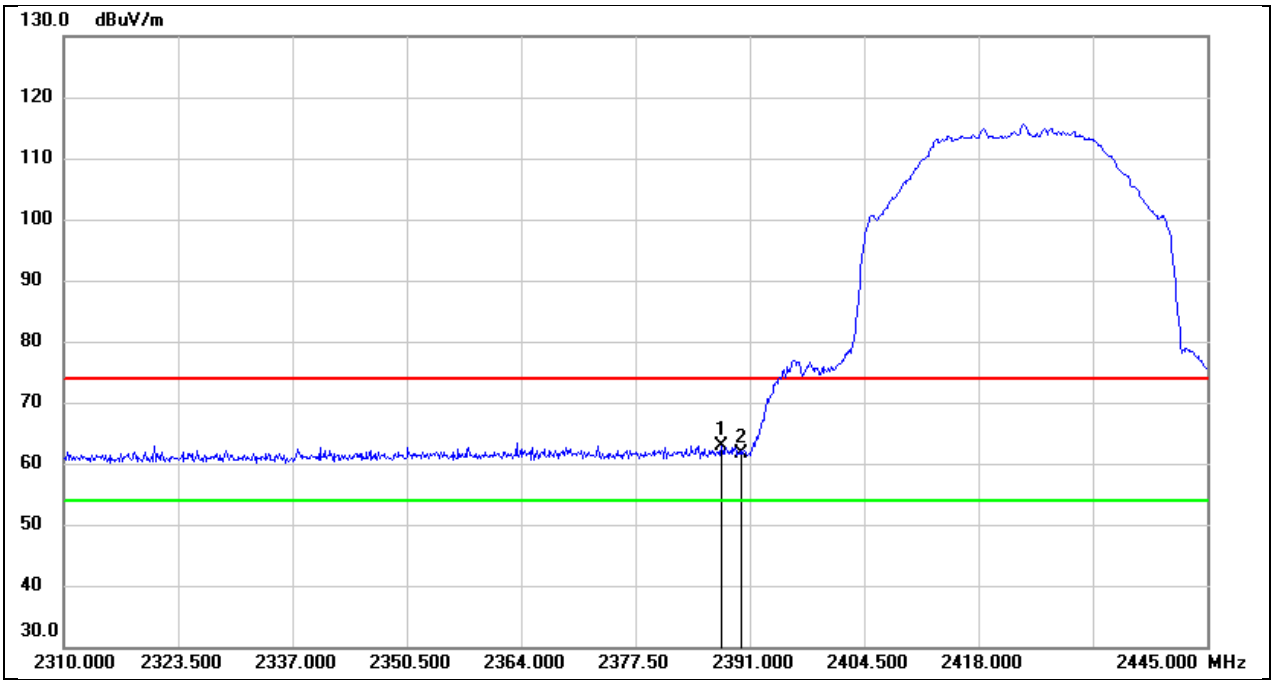
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	33.06	32.94	66.00	74.00	-8.00	peak
2	2484.380	32.58	32.94	65.52	74.00	-8.48	peak

Test Mode:	SRD 20MHz AV	Frequency(MHz):	2462.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



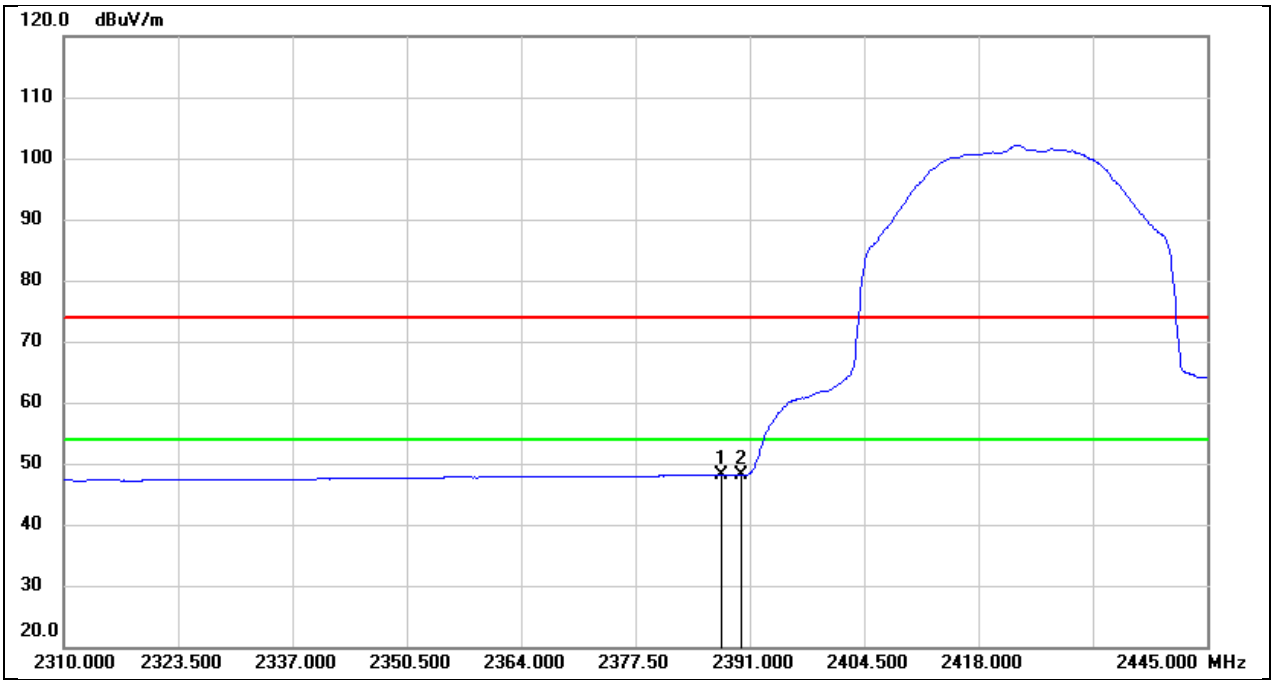
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.98	32.94	51.92	54.00	-2.08	AVG
2	2484.380	16.80	32.94	49.74	54.00	-4.26	AVG

Test Mode:	SRD 40MHz PK	Frequency(MHz):	2422.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



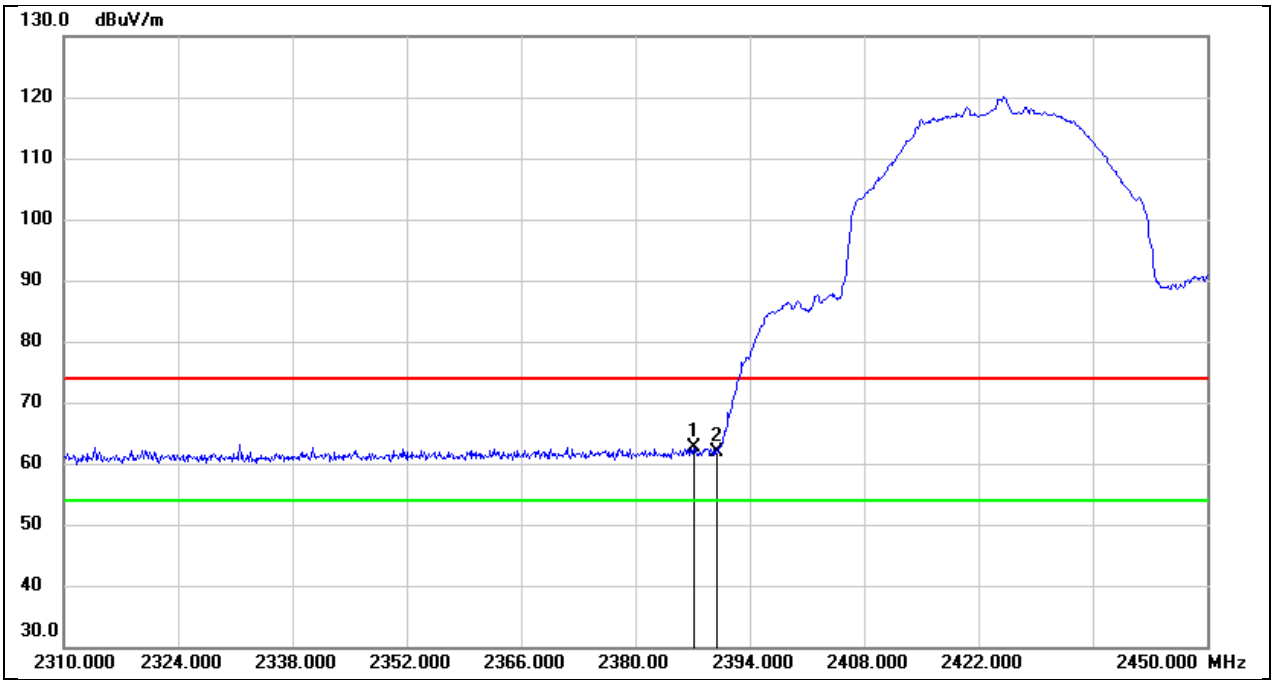
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.625	30.07	32.91	62.98	74.00	-11.02	peak
2	2390.000	28.71	32.92	61.63	74.00	-12.37	peak

Test Mode:	SRD 40MHz AV	Frequency(MHz):	2422.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



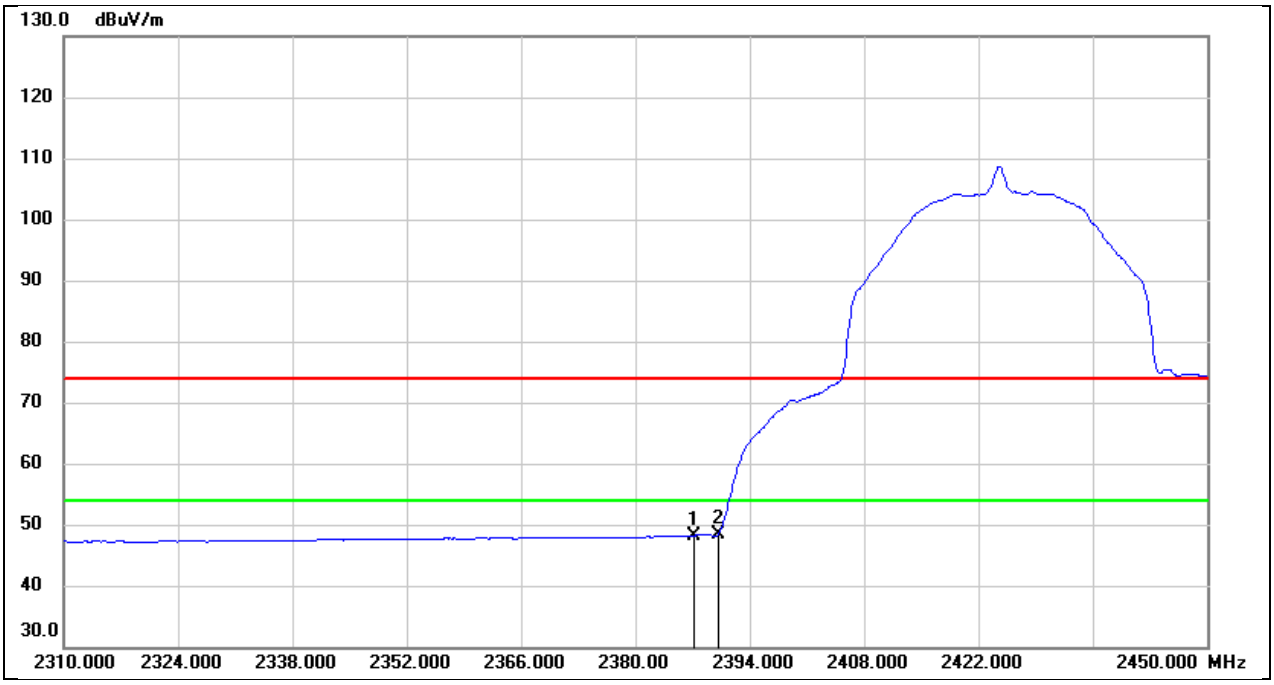
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.625	15.23	32.91	48.14	54.00	-5.86	AVG
2	2390.000	15.28	32.92	48.20	54.00	-5.80	AVG

Test Mode:	SRD 40MHz PK	Frequency(MHz):	2424.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



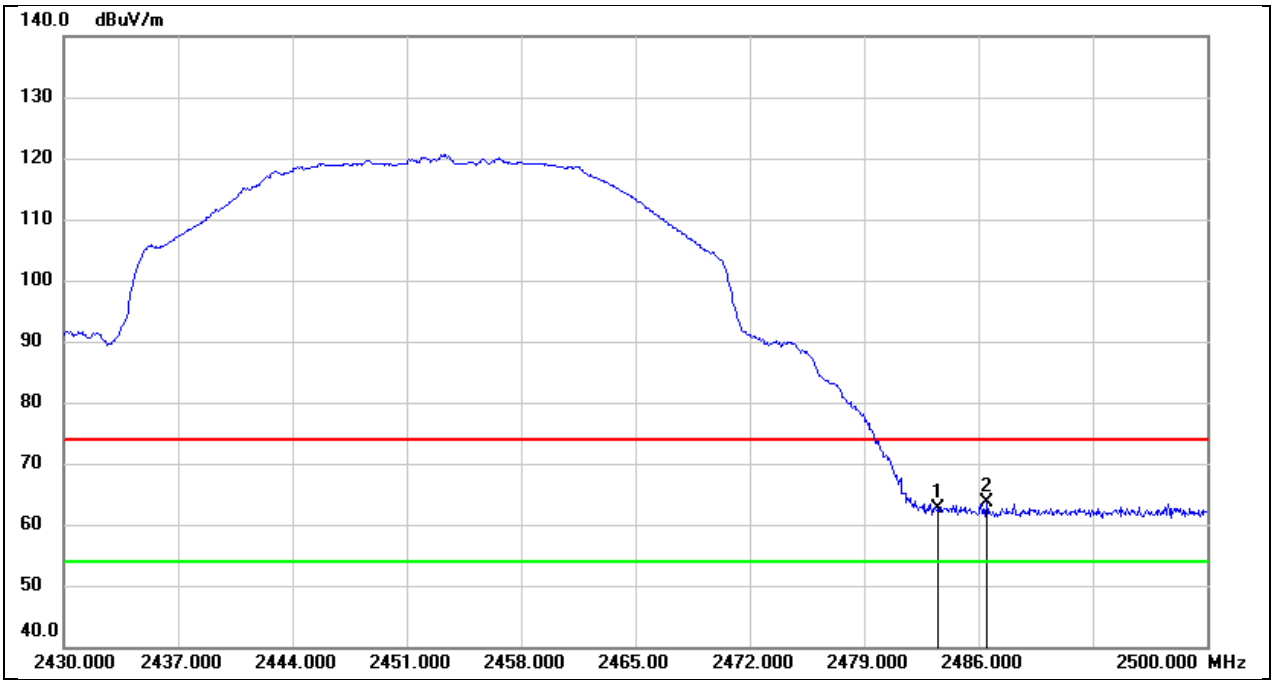
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.140	29.68	32.91	62.59	74.00	-11.41	peak
2	2390.000	28.89	32.92	61.81	74.00	-12.19	peak

Test Mode:	SRD 40MHz AV	Frequency(MHz):	2424.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



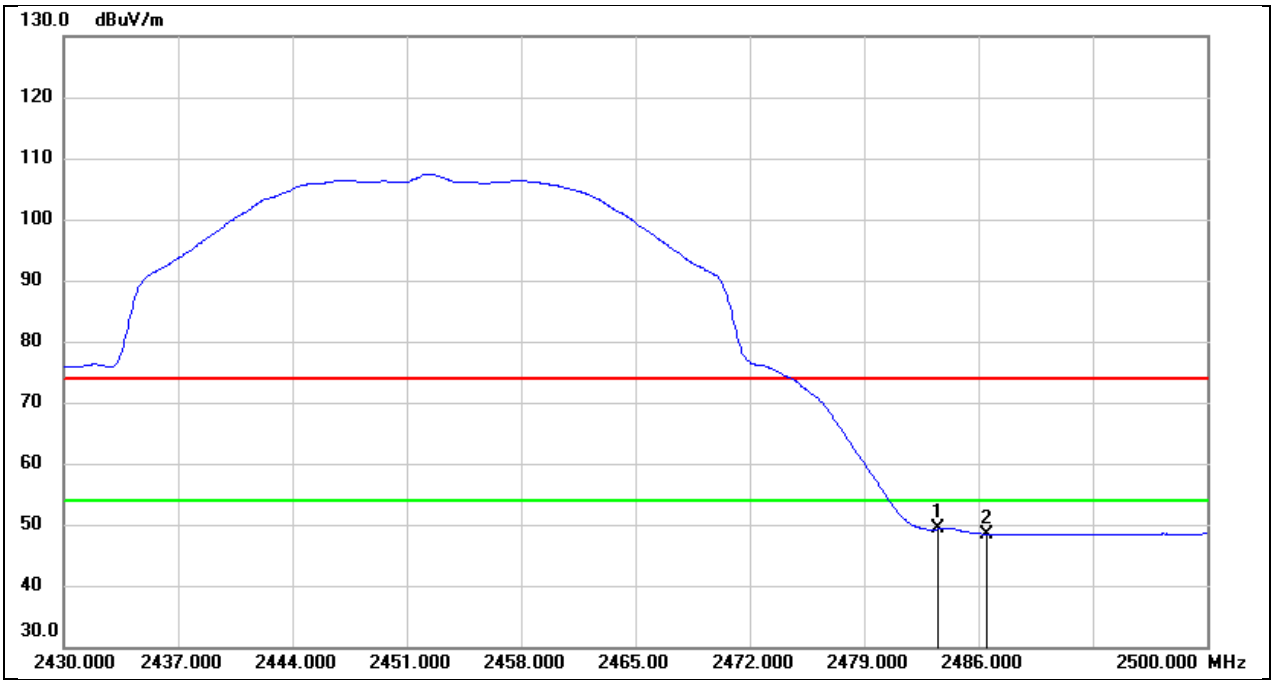
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.140	15.34	32.91	48.25	54.00	-5.75	AVG
2	2390.000	15.41	32.92	48.33	54.00	-5.67	AVG

Test Mode:	SRD 40MHz PK	Frequency(MHz):	2452.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



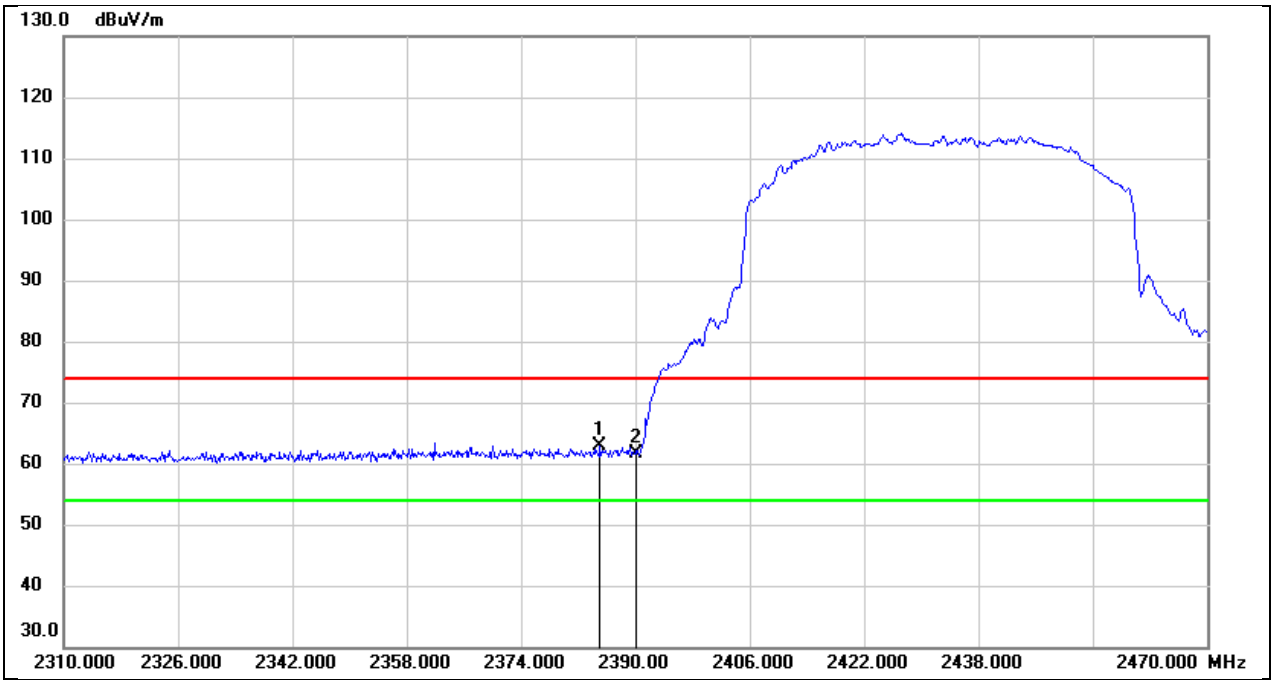
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	29.59	32.94	62.53	74.00	-11.47	peak
2	2486.490	30.59	32.93	63.52	74.00	-10.48	peak

Test Mode:	SRD 40MHz AV	Frequency(MHz):	2452.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



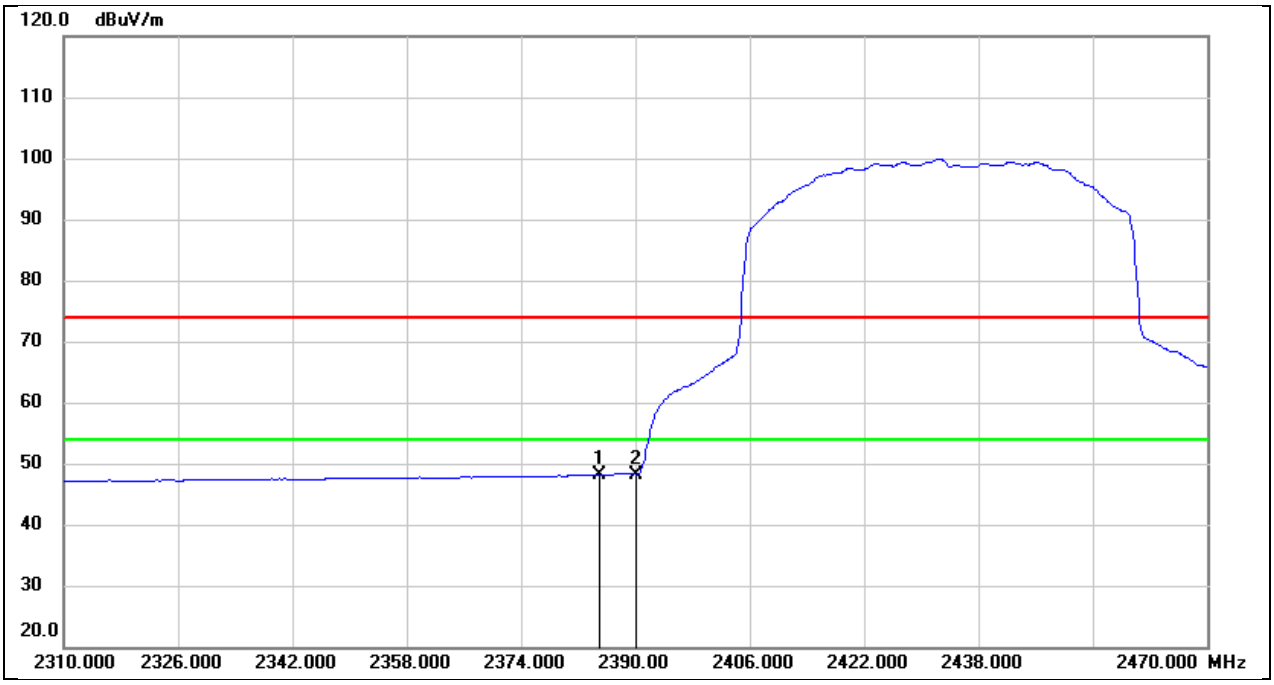
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.35	32.94	49.29	54.00	-4.71	AVG
2	2486.490	15.50	32.93	48.43	54.00	-5.57	AVG

Test Mode:	SRD 60MHz PK	Frequency(MHz):	2432.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



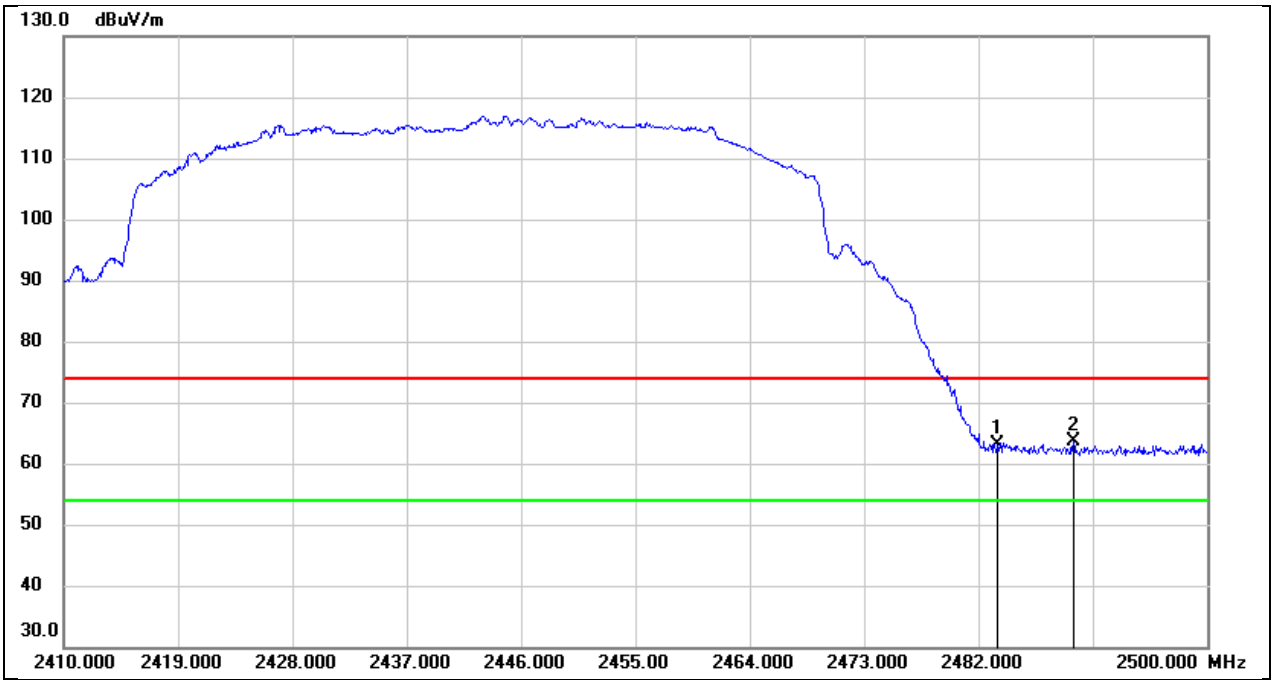
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.040	30.02	32.90	62.92	74.00	-11.08	peak
2	2390.000	28.64	32.92	61.56	74.00	-12.44	peak

Test Mode:	SRD 60MHz AV	Frequency(MHz):	2432.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



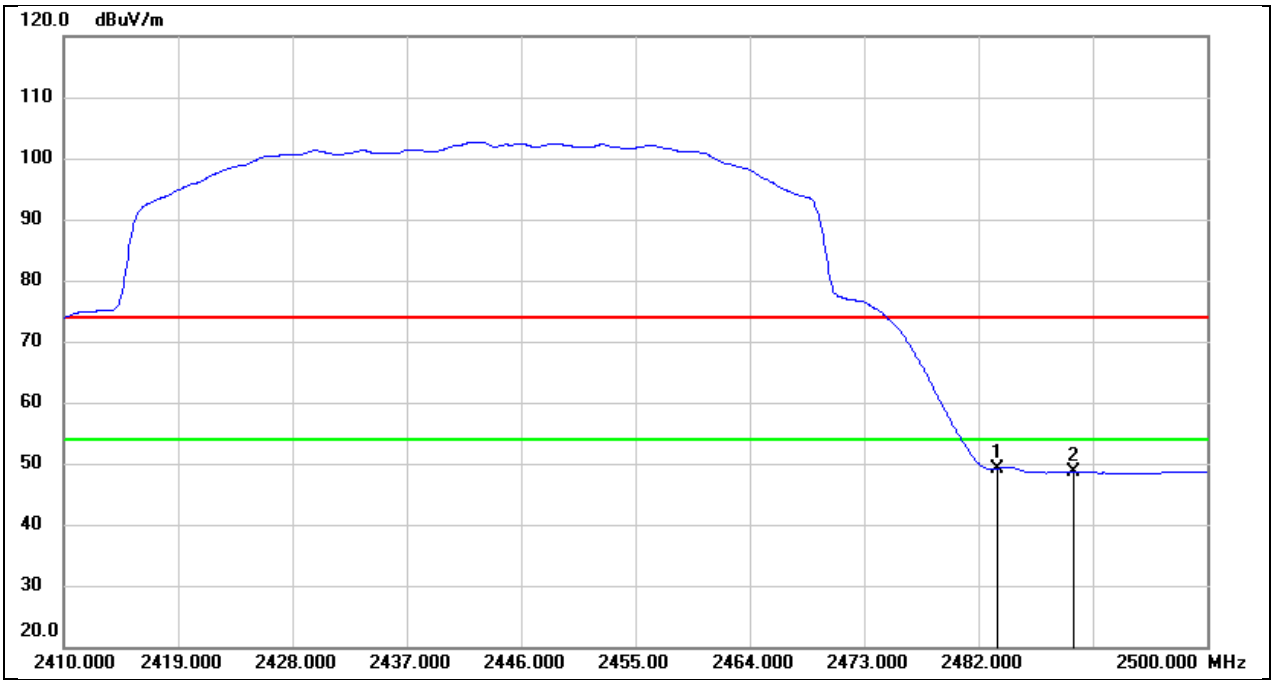
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.040	15.22	32.90	48.12	54.00	-5.88	AVG
2	2390.000	15.33	32.92	48.25	54.00	-5.75	AVG

Test Mode:	SRD 60MHz PK	Frequency(MHz):	2442.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	30.15	32.94	63.09	74.00	-10.91	peak
2	2489.470	30.82	32.93	63.75	74.00	-10.25	peak

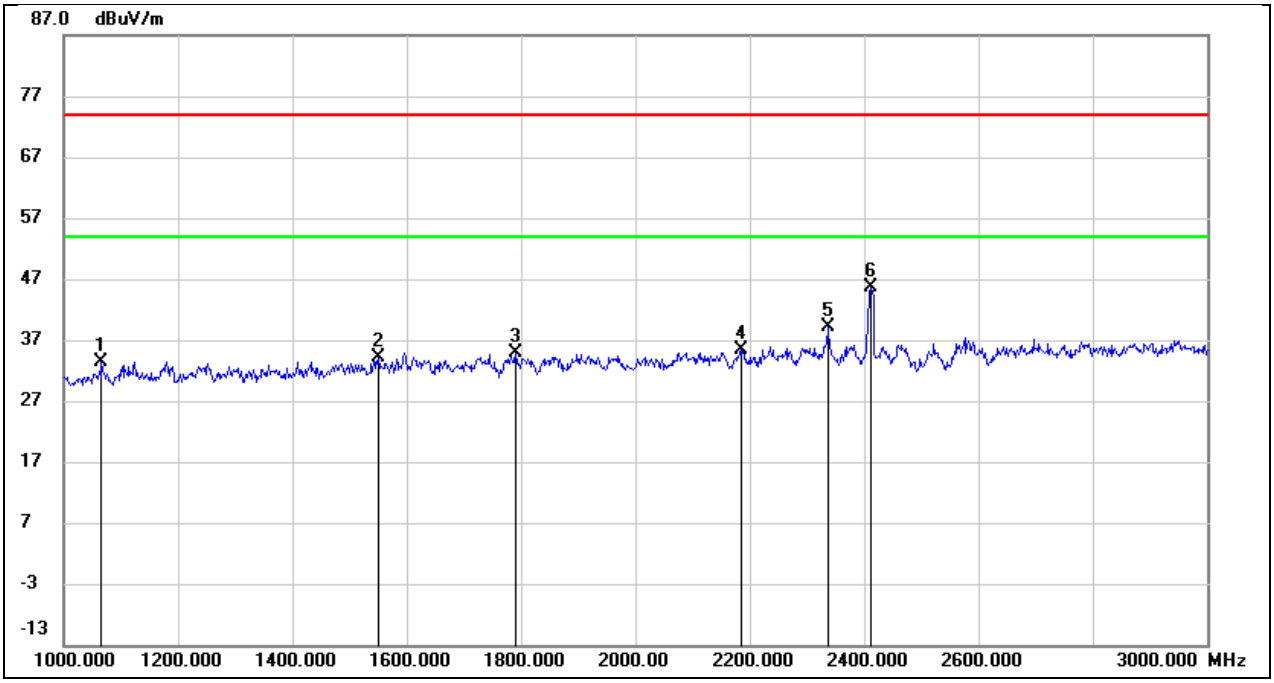
Test Mode:	SRD 60MHz AV	Frequency(MHz):	2442.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.24	32.94	49.18	54.00	-4.82	AVG
2	2489.470	15.61	32.93	48.54	54.00	-5.46	AVG

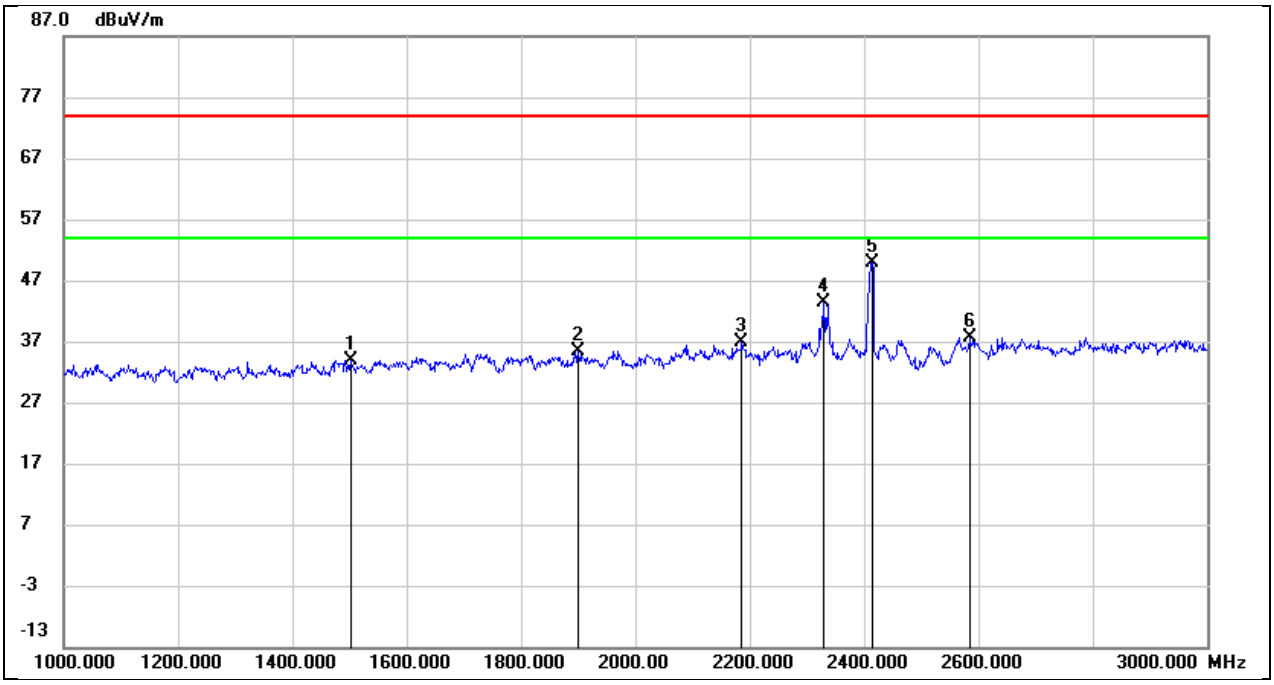
8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

Test Mode:	SRD 20MHz	Frequency(MHz):	2412.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



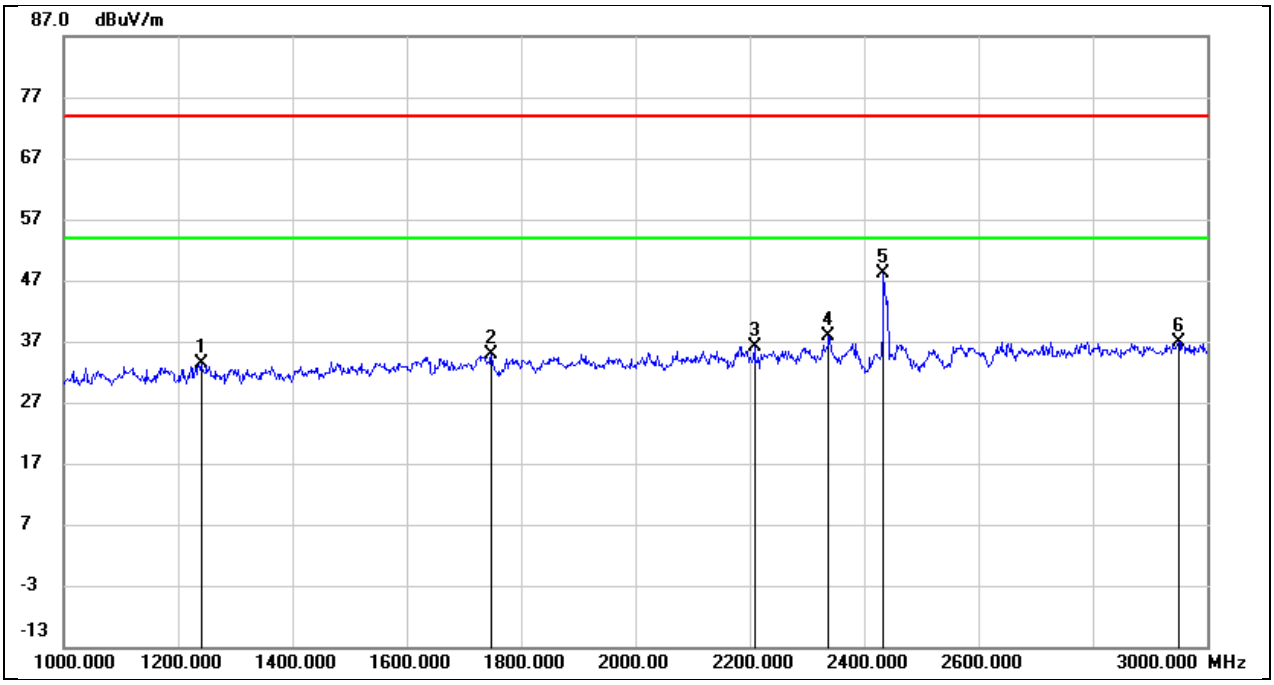
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1066.000	47.17	-13.83	33.34	74.00	-40.66	peak
2	1550.000	45.62	-11.45	34.17	74.00	-39.83	peak
3	1790.000	45.24	-10.28	34.96	74.00	-39.04	peak
4	2184.000	44.31	-8.98	35.33	74.00	-38.67	peak
5	2336.000	46.92	-7.87	39.05	74.00	-34.95	peak
6	2412.500	52.99	-7.41	45.58	/	/	Fundamental

Test Mode:	SRD 20MHz	Frequency(MHz):	2412.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



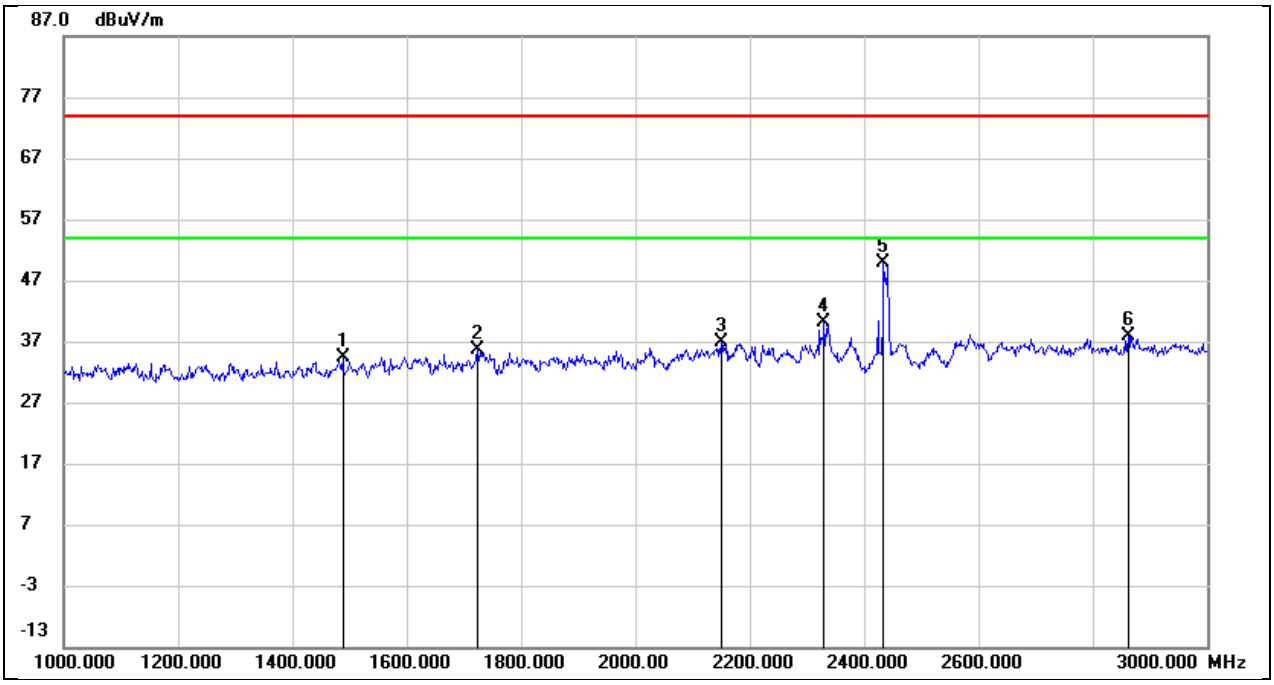
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1502.000	45.67	-11.73	33.94	74.00	-40.06	peak
2	1900.000	45.55	-10.18	35.37	74.00	-38.63	peak
3	2186.000	45.92	-8.97	36.95	74.00	-37.05	peak
4	2330.000	51.32	-7.92	43.40	74.00	-30.60	peak
5	2412.500	57.34	-7.41	49.93	/	/	Fundamental
6	2584.000	45.31	-7.65	37.66	74.00	-36.34	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



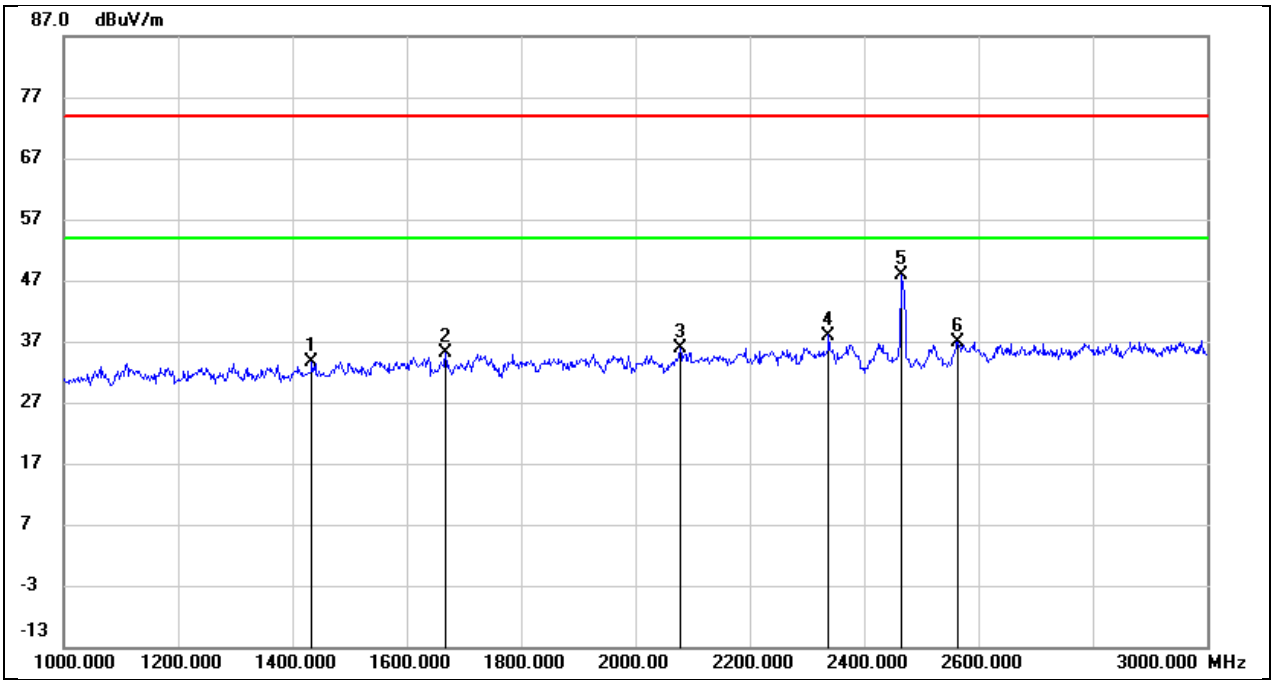
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1240.000	45.96	-12.59	33.37	74.00	-40.63	peak
2	1748.000	45.42	-10.48	34.94	74.00	-39.06	peak
3	2208.000	45.02	-8.82	36.20	74.00	-37.80	peak
4	2338.000	45.63	-7.85	37.78	74.00	-36.22	peak
5	2437.500	55.60	-7.44	48.16	/	/	Fundamental
6	2950.000	42.98	-6.11	36.87	74.00	-37.13	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



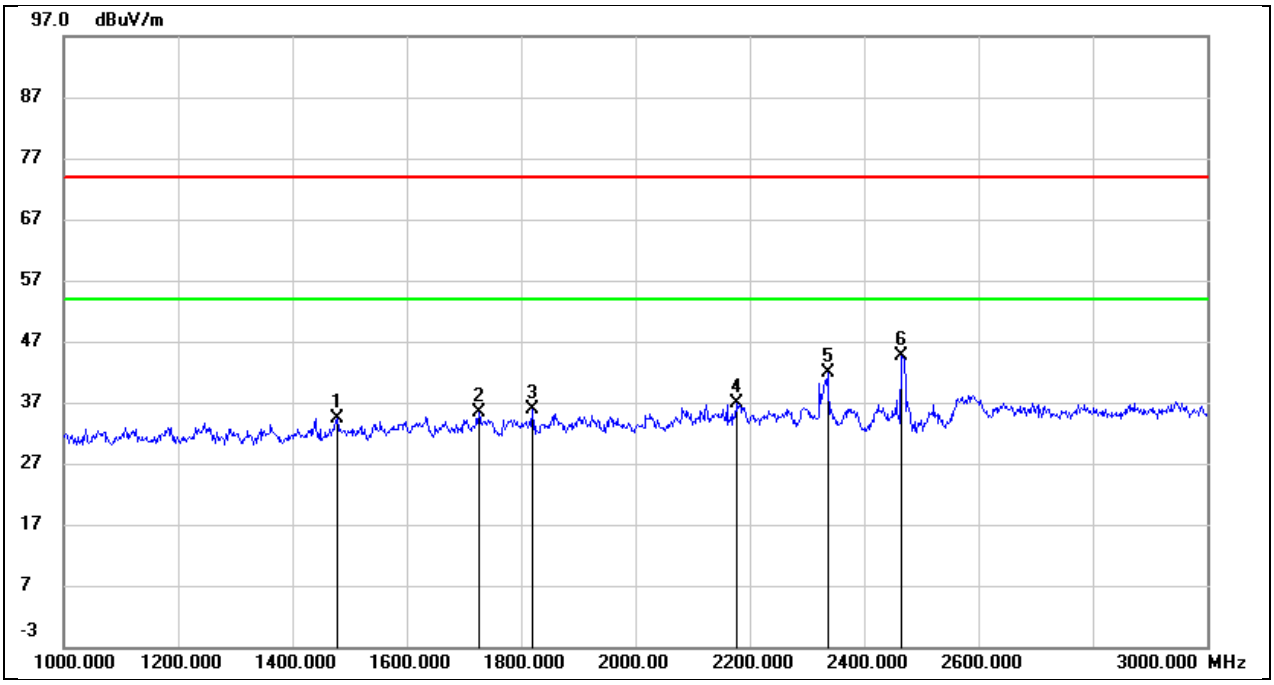
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1488.000	46.10	-11.82	34.28	74.00	-39.72	peak
2	1724.000	46.32	-10.59	35.73	74.00	-38.27	peak
3	2150.000	46.13	-9.18	36.95	74.00	-37.05	peak
4	2330.000	48.13	-7.92	40.21	74.00	-33.79	peak
5	2437.500	57.30	-7.44	49.86	/	/	Fundamental
6	2862.000	44.46	-6.52	37.94	74.00	-36.06	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2462.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1434.000	45.91	-12.18	33.73	74.00	-40.27	peak
2	1668.000	45.88	-10.86	35.02	74.00	-38.98	peak
3	2078.000	45.41	-9.64	35.77	74.00	-38.23	peak
4	2338.000	45.85	-7.85	38.00	74.00	-36.00	peak
5	2462.500	55.45	-7.47	47.98	/	/	Fundamental
6	2564.000	44.58	-7.62	36.96	74.00	-37.04	peak

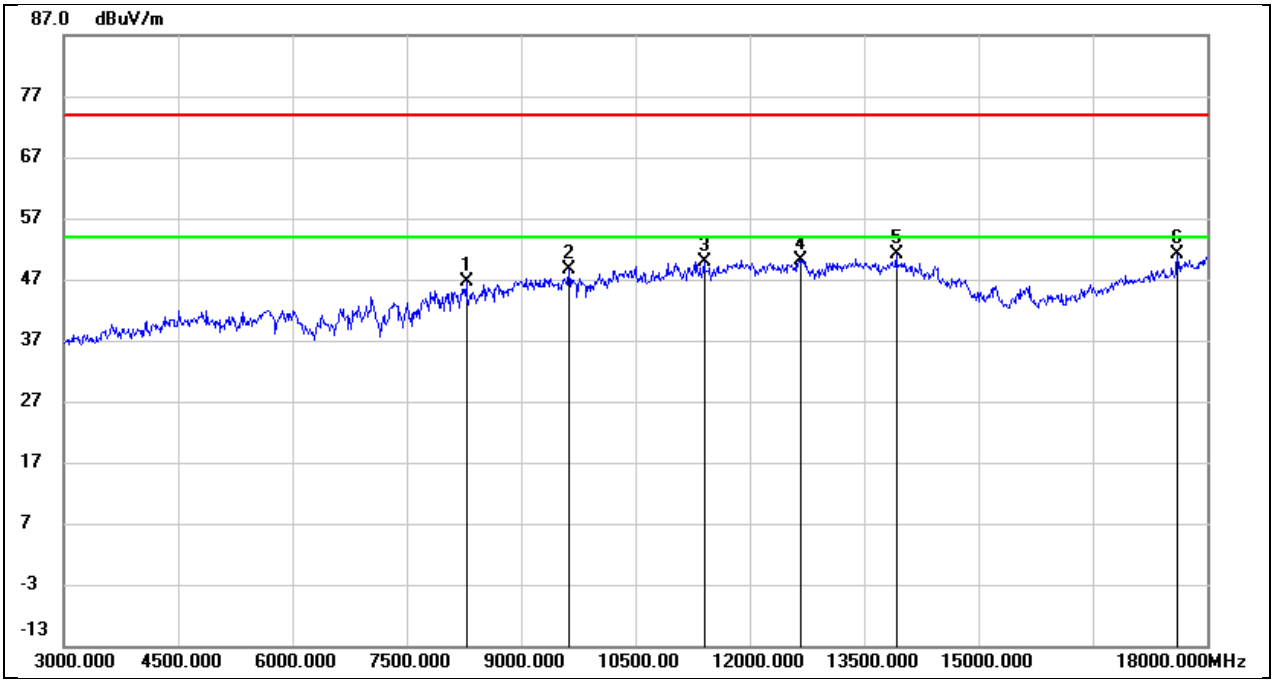
Test Mode:	SRD 20MHz	Frequency(MHz):	2462.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1478.000	46.16	-11.88	34.28	74.00	-39.72	peak
2	1726.000	45.90	-10.59	35.31	74.00	-38.69	peak
3	1820.000	46.21	-10.23	35.98	74.00	-38.02	peak
4	2176.000	45.80	-9.03	36.77	74.00	-37.23	peak
5	2336.000	49.71	-7.87	41.84	74.00	-32.16	peak
6	2467.500	52.13	-7.47	44.66	/	/	Fundamental

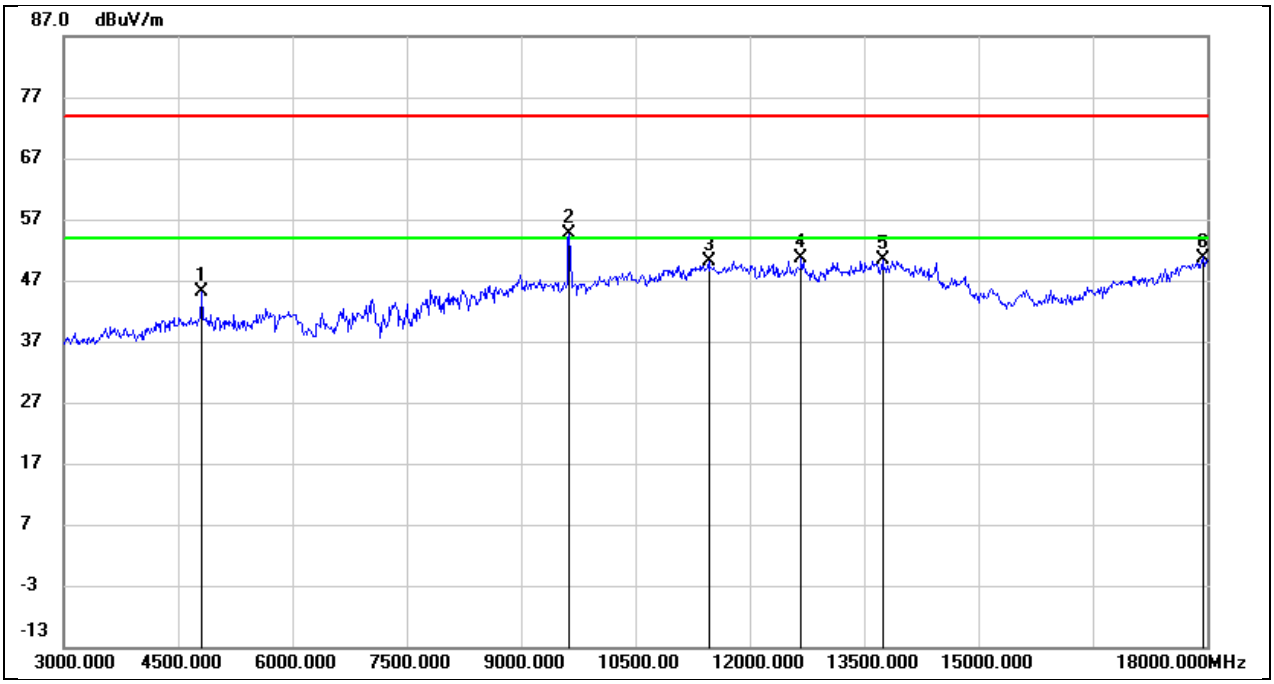
8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

Test Mode:	SRD 10MHz	Frequency(MHz):	2407.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



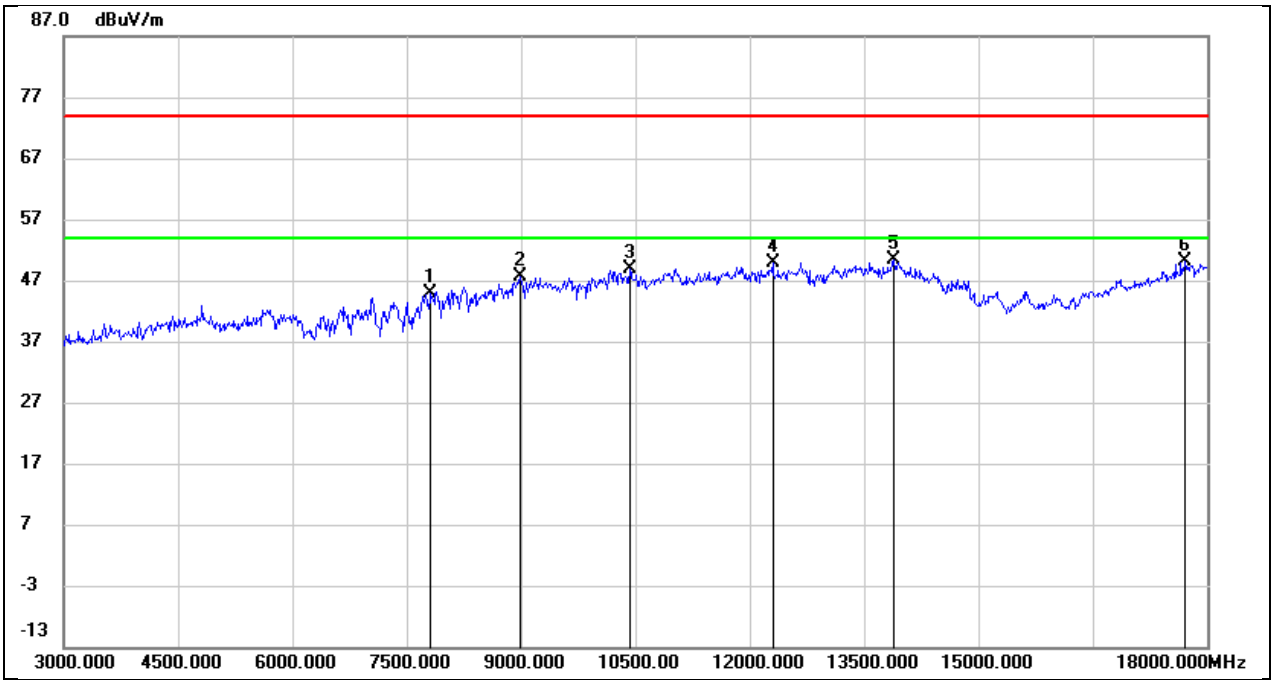
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8280.000	38.13	8.46	46.59	74.00	-27.41	peak
2	9630.000	37.54	11.13	48.67	74.00	-25.33	peak
3	11400.000	33.32	16.54	49.86	74.00	-24.14	peak
4	12660.000	31.74	18.49	50.23	74.00	-23.77	peak
5	13920.000	28.38	22.71	51.09	74.00	-22.91	peak
6	17610.000	26.75	24.34	51.09	74.00	-22.91	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2407.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



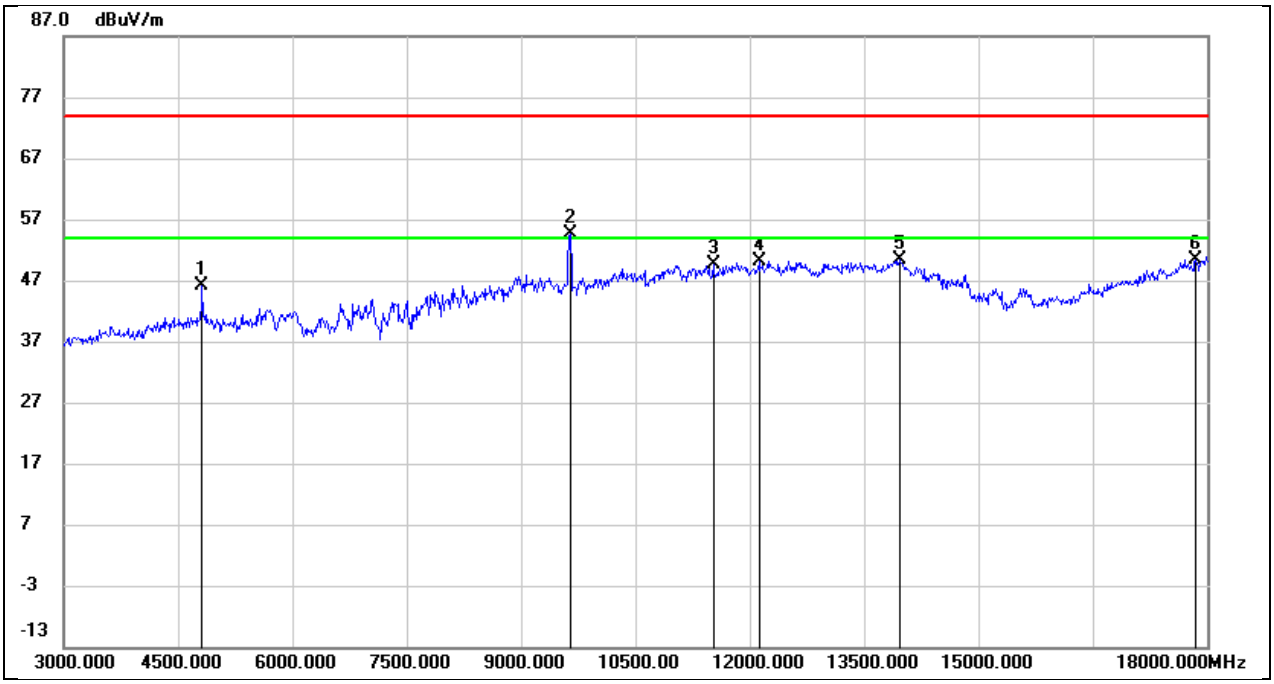
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	44.64	0.49	45.13	74.00	-28.87	peak
2*	9630.000	43.44	11.13	54.57	/	/	peak
3	11460.000	33.35	16.74	50.09	74.00	-23.91	peak
4	12675.000	31.97	18.54	50.51	74.00	-23.49	peak
5	13740.000	28.04	22.35	50.39	74.00	-23.61	peak
6	17955.000	24.09	26.66	50.75	74.00	-23.25	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2409.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



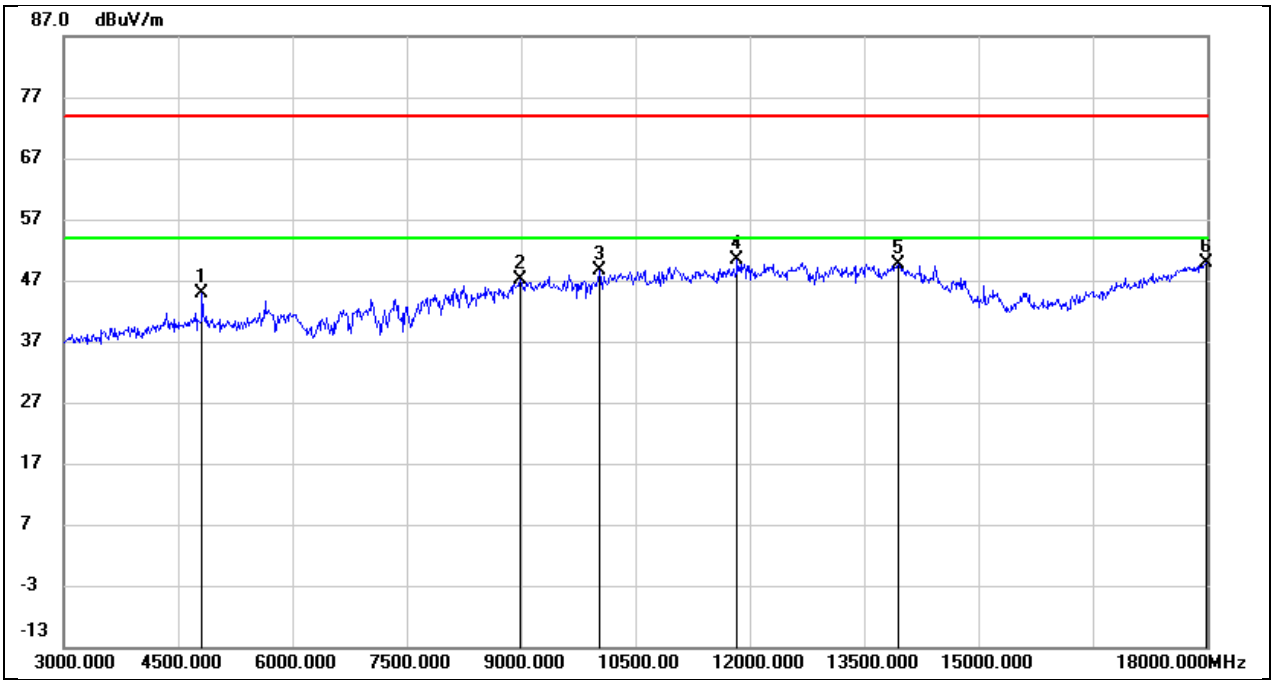
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7815.000	37.40	7.50	44.90	74.00	-29.10	peak
2	8985.000	36.71	10.97	47.68	74.00	-26.32	peak
3	10425.000	35.39	13.51	48.90	74.00	-25.10	peak
4	12300.000	31.12	18.65	49.77	74.00	-24.23	peak
5	13890.000	27.80	22.69	50.49	74.00	-23.51	peak
6	17715.000	24.71	25.31	50.02	74.00	-23.98	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2409.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



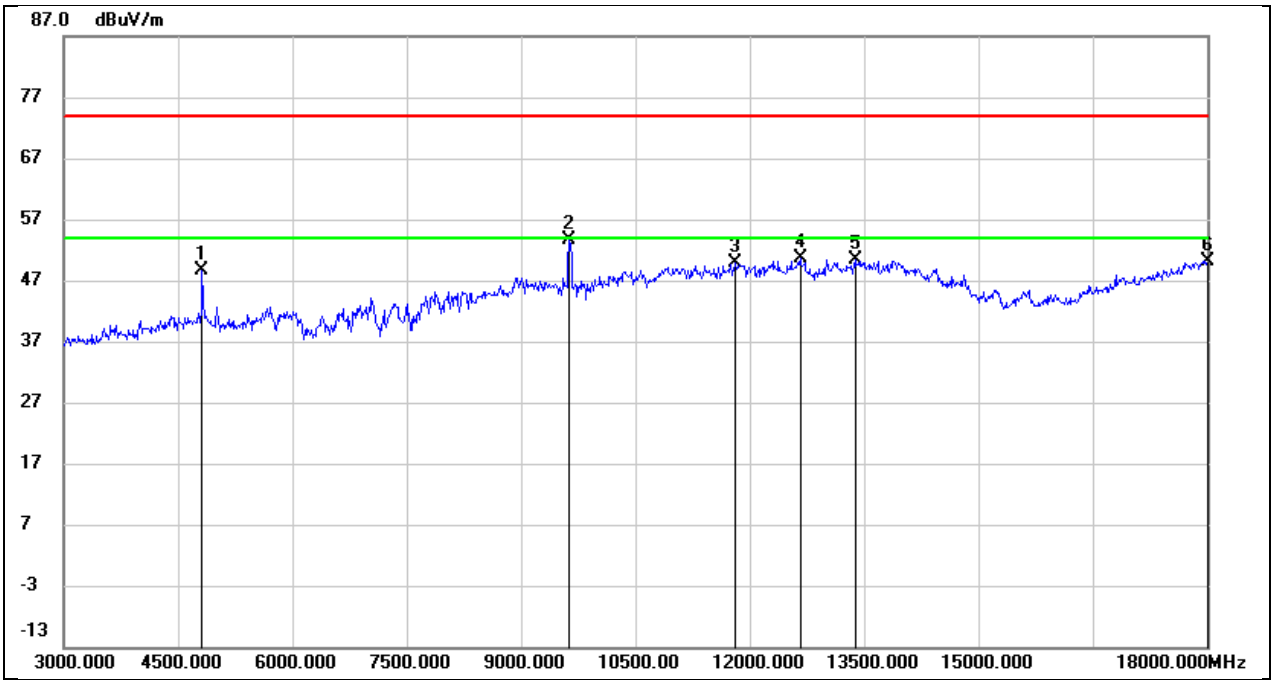
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	45.52	0.49	46.01	74.00	-27.99	peak
2*	9645.000	43.38	11.17	54.55	/	/	peak
3	11520.000	32.70	16.91	49.61	74.00	-24.39	peak
4	12120.000	31.68	18.40	50.08	74.00	-23.92	peak
5	13965.000	27.74	22.74	50.48	74.00	-23.52	peak
6	17850.000	24.18	26.28	50.46	74.00	-23.54	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2410.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



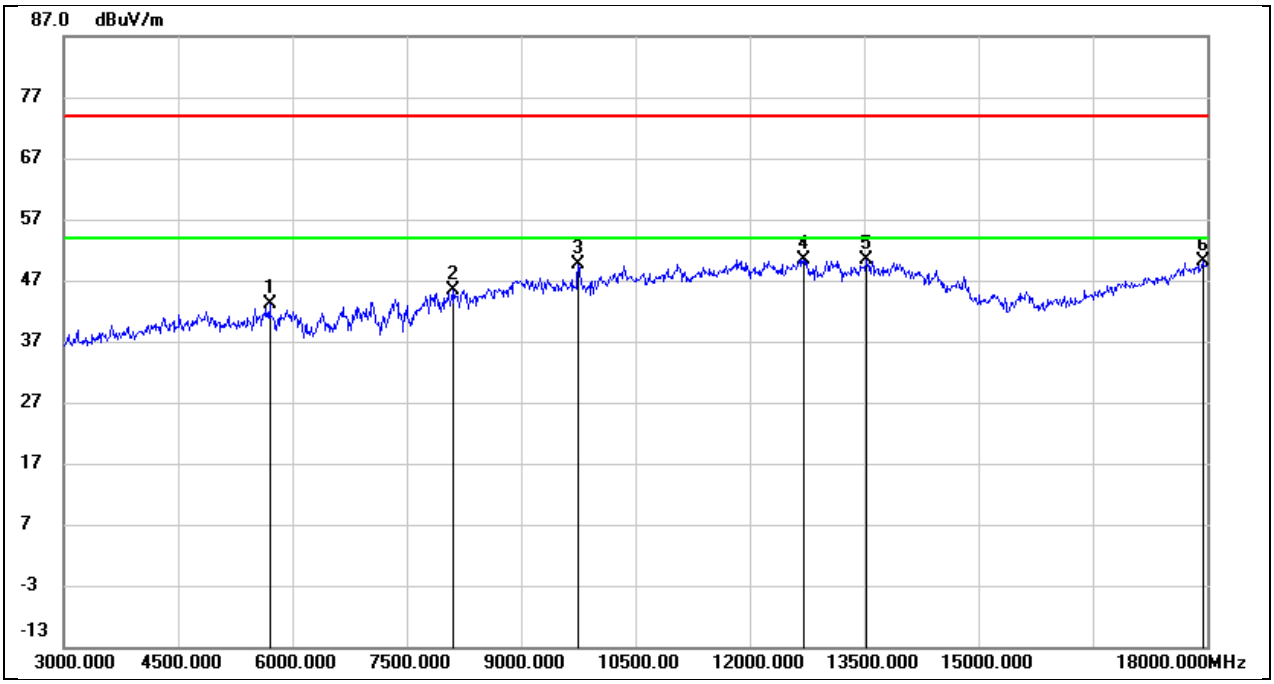
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	44.38	0.49	44.87	74.00	-29.13	peak
2	8985.000	36.08	10.97	47.05	74.00	-26.95	peak
3	10035.000	36.11	12.48	48.59	74.00	-25.41	peak
4	11835.000	32.68	17.79	50.47	74.00	-23.53	peak
5	13950.000	26.79	22.73	49.52	74.00	-24.48	peak
6	17985.000	22.99	26.77	49.76	74.00	-24.24	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2410.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



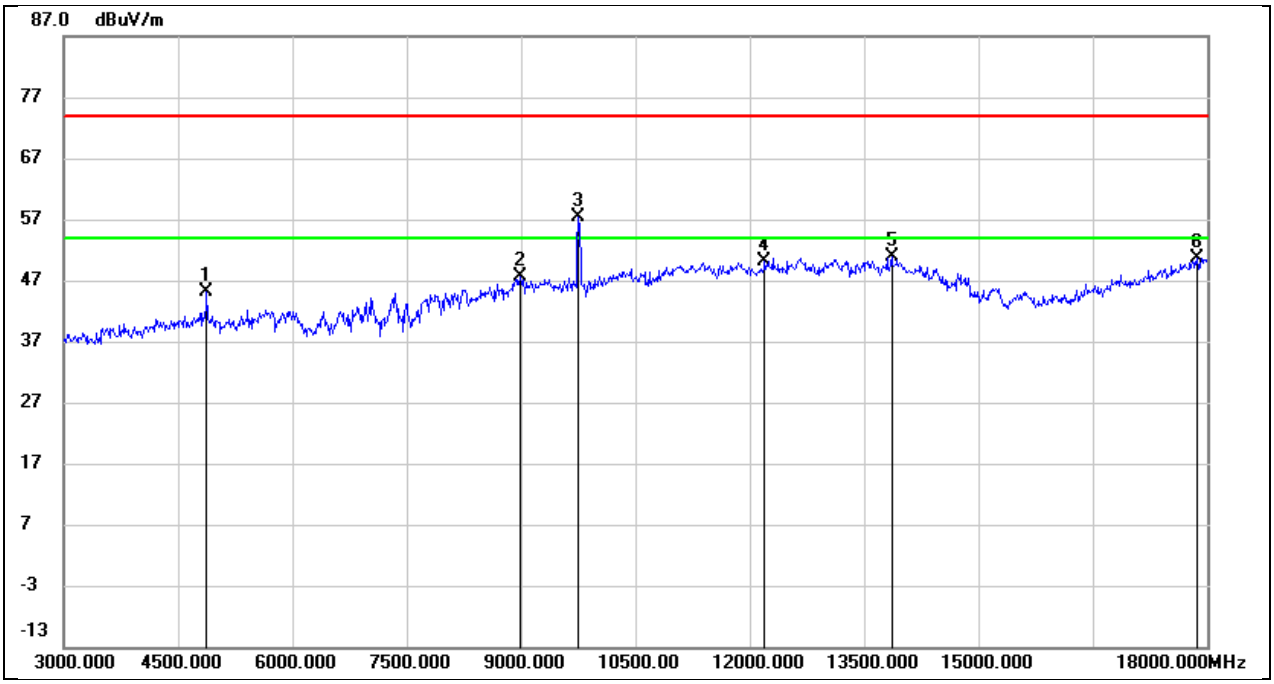
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.17	0.49	48.66	74.00	-25.34	peak
2*	9630.000	42.39	11.13	53.52	/	/	peak
3	11805.000	32.11	17.65	49.76	74.00	-24.24	peak
4	12660.000	32.04	18.49	50.53	74.00	-23.47	peak
5	13380.000	29.15	21.33	50.48	74.00	-23.52	peak
6	18000.000	23.23	26.83	50.06	74.00	-23.94	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



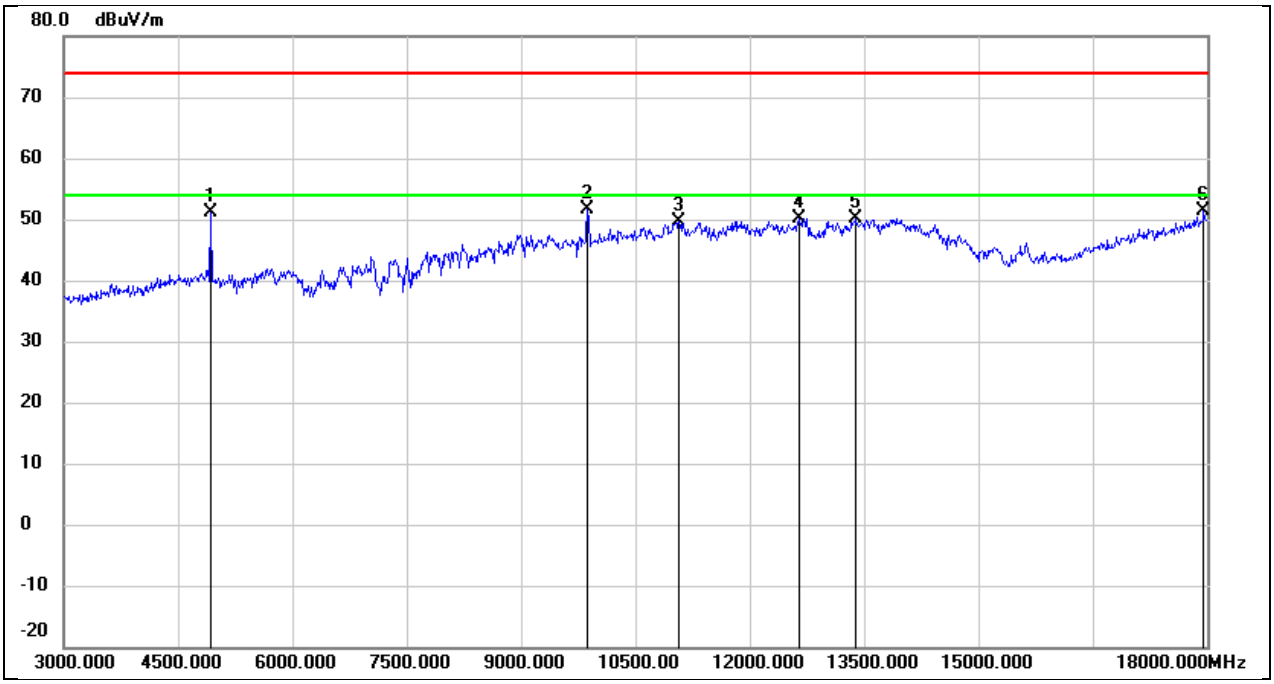
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5700.000	40.62	2.54	43.16	74.00	-30.84	peak
2	8115.000	37.42	8.07	45.49	74.00	-28.51	peak
3	9750.000	38.33	11.40	49.73	74.00	-24.27	peak
4	12705.000	31.74	18.66	50.40	74.00	-23.60	peak
5	13530.000	28.61	21.68	50.29	74.00	-23.71	peak
6	17940.000	23.62	26.61	50.23	74.00	-23.77	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



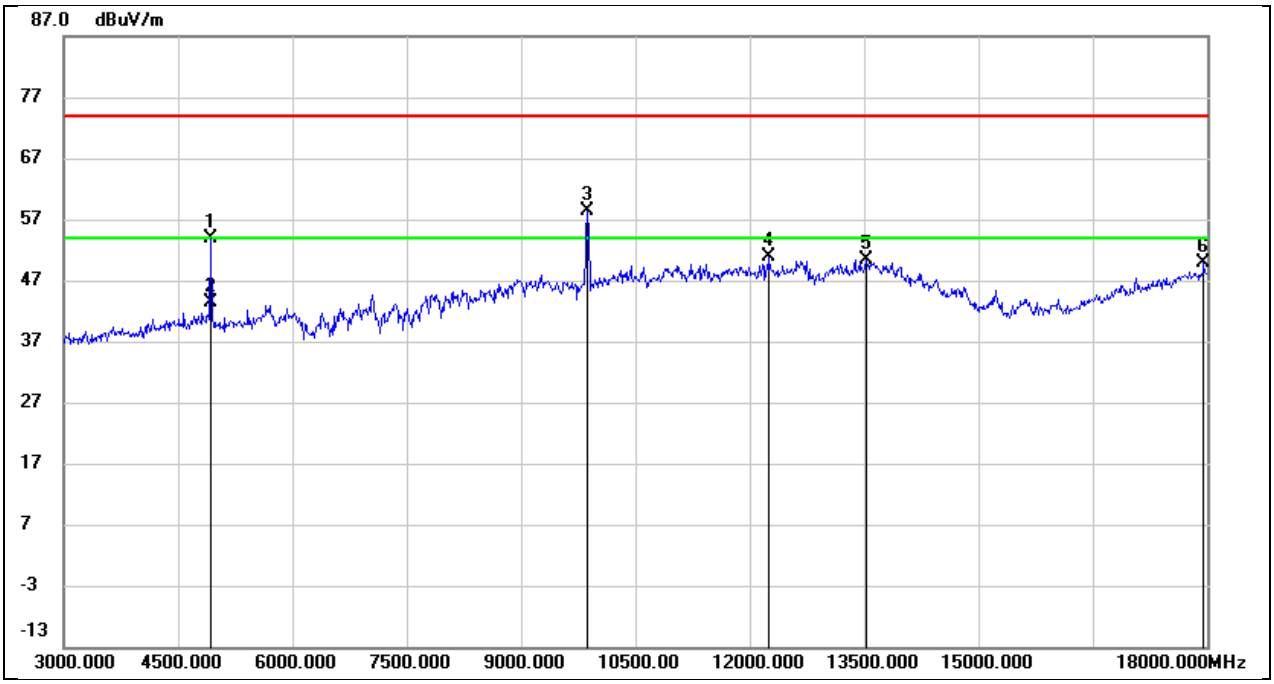
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	44.55	0.61	45.16	74.00	-28.84	peak
2	8985.000	36.62	10.97	47.59	74.00	-26.41	peak
3*	9750.000	45.86	11.40	57.26	/	/	peak
4	12195.000	31.92	18.32	50.24	74.00	-23.76	peak
5	13860.000	28.15	22.68	50.83	74.00	-23.17	peak
6	17865.000	24.30	26.33	50.63	74.00	-23.37	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2467.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



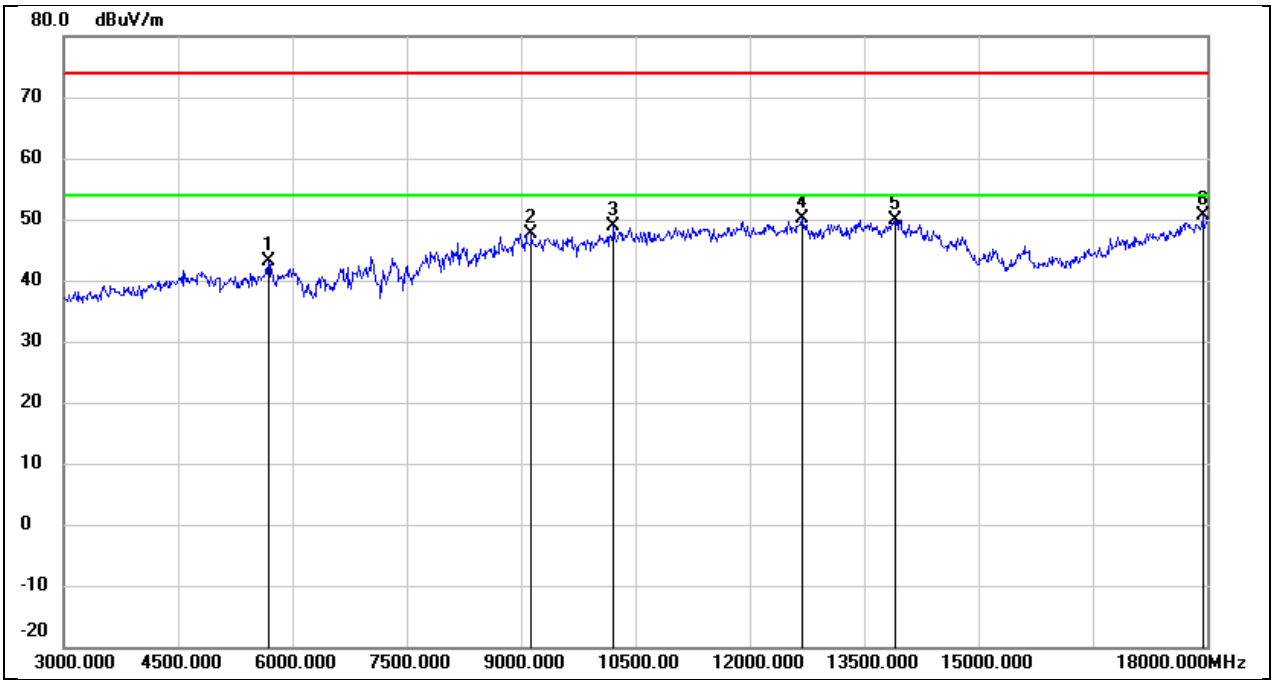
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	50.48	0.69	51.17	74.00	-22.83	peak
2	9870.000	39.77	11.86	51.63	74.00	-22.37	peak
3	11070.000	34.62	15.08	49.70	74.00	-24.30	peak
4	12645.000	31.78	18.44	50.22	74.00	-23.78	peak
5	13395.000	28.77	21.43	50.20	74.00	-23.80	peak
6	17955.000	24.70	26.66	51.36	74.00	-22.64	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2467.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



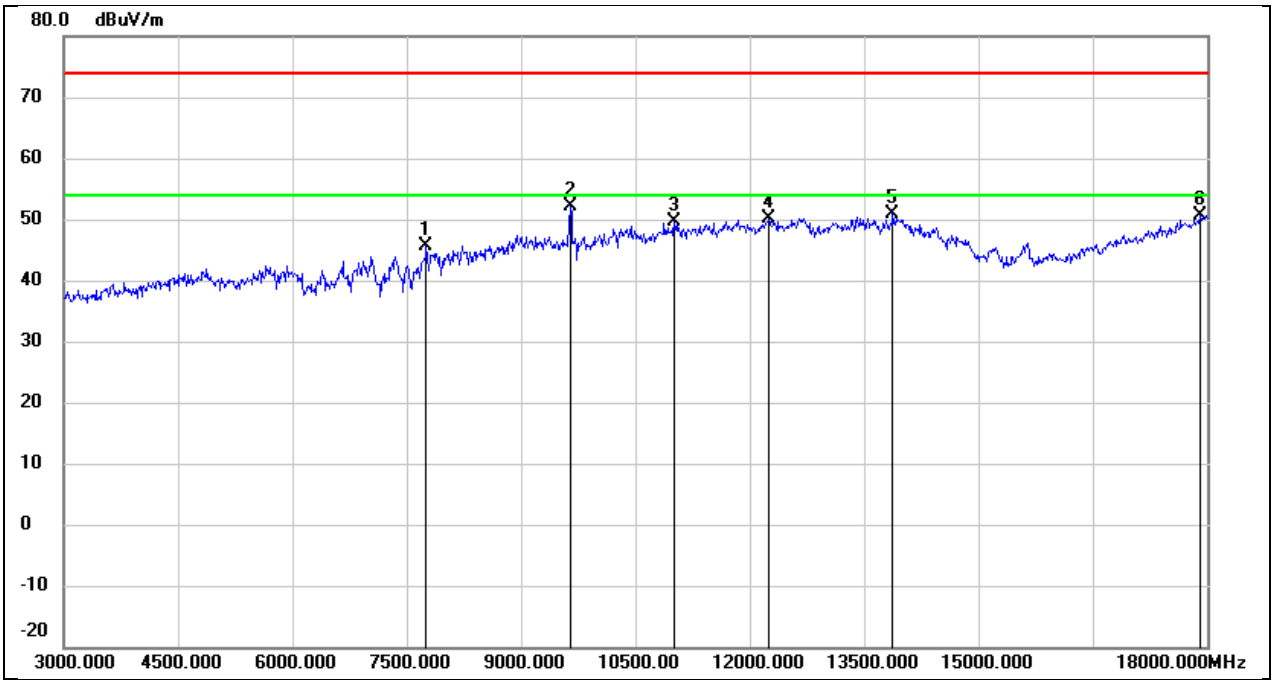
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	53.19	0.69	53.88	74.00	-20.12	peak
2	4920.000	42.77	0.69	43.46	54.00	-10.54	AVG
3*	9870.000	46.53	11.86	58.39	/	/	peak
4	12255.000	32.31	18.50	50.81	74.00	-23.19	peak
5	13530.000	28.67	21.68	50.35	74.00	-23.65	peak
6	17955.000	23.11	26.66	49.77	74.00	-24.23	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2412.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



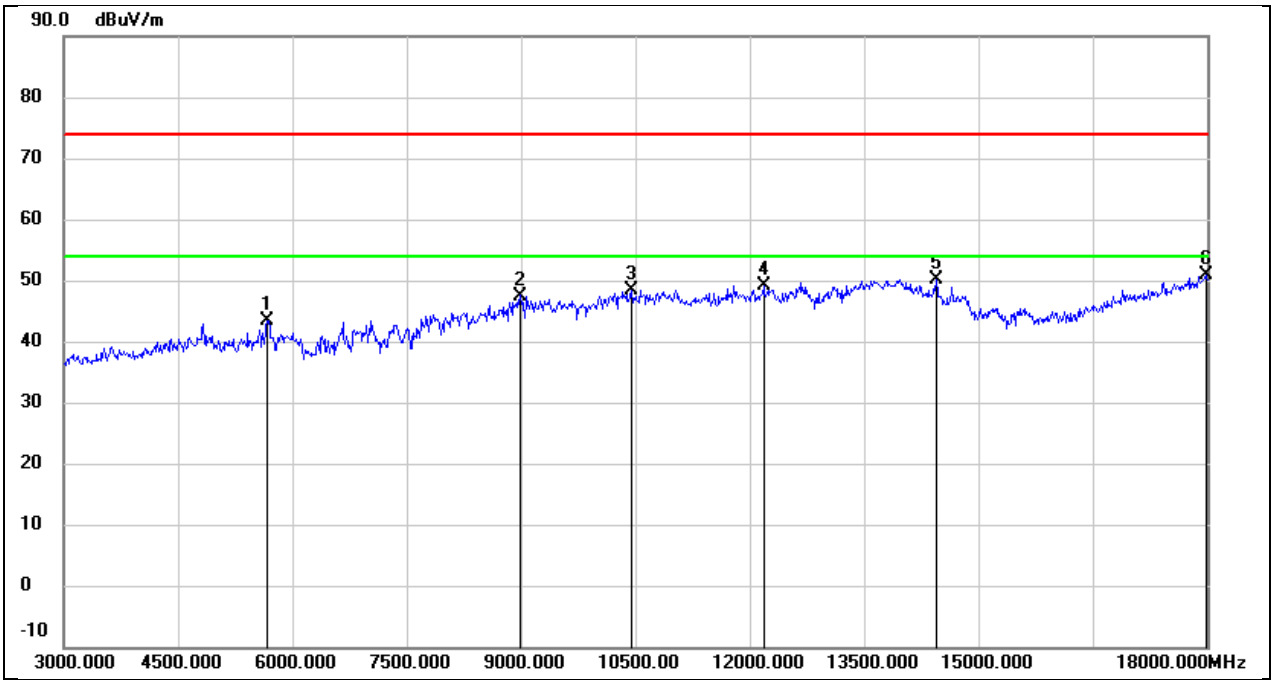
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5685.000	40.50	2.59	43.09	74.00	-30.91	peak
2	9135.000	37.35	10.39	47.74	74.00	-26.26	peak
3	10215.000	36.38	12.56	48.94	74.00	-25.06	peak
4	12690.000	31.45	18.60	50.05	74.00	-23.95	peak
5	13905.000	27.24	22.70	49.94	74.00	-24.06	peak
6	17940.000	23.91	26.61	50.52	74.00	-23.48	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2412.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



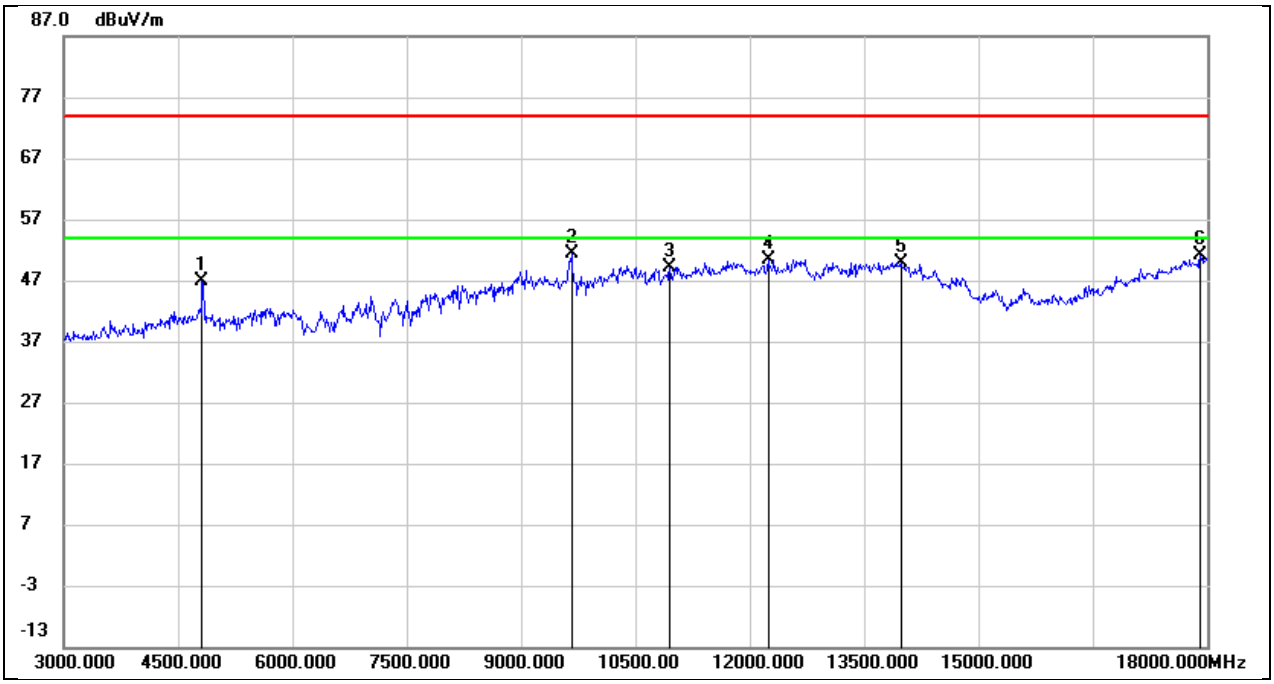
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7755.000	38.14	7.38	45.52	74.00	-28.48	peak
2	9645.000	40.94	11.17	52.11	74.00	-21.89	peak
3	11010.000	34.58	14.94	49.52	74.00	-24.48	peak
4	12255.000	31.54	18.50	50.04	74.00	-23.96	peak
5	13875.000	28.32	22.68	51.00	74.00	-23.00	peak
6	17910.000	24.17	26.50	50.67	74.00	-23.33	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2414.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



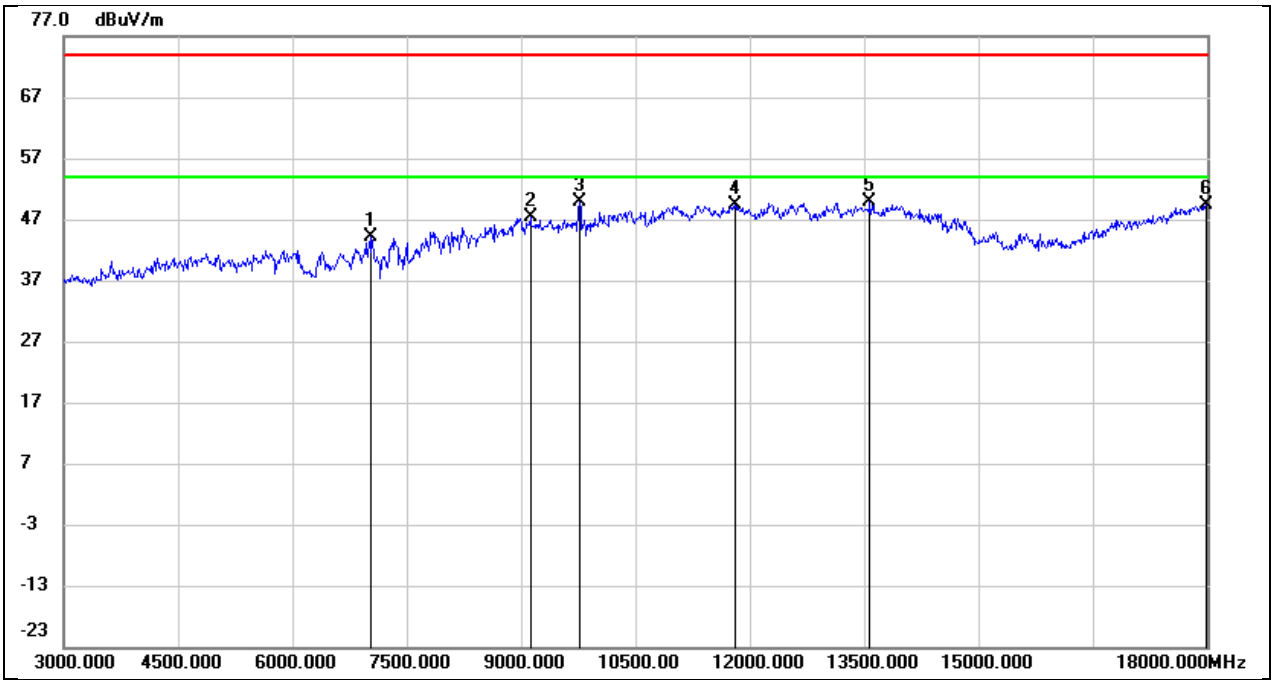
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5670.000	40.69	2.62	43.31	74.00	-30.69	peak
2	8985.000	36.53	10.97	47.50	74.00	-26.50	peak
3	10440.000	34.89	13.56	48.45	74.00	-25.55	peak
4	12180.000	30.91	18.33	49.24	74.00	-24.76	peak
5	14445.000	29.35	20.80	50.15	74.00	-23.85	peak
6	17985.000	24.08	26.77	50.85	74.00	-23.15	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2414.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



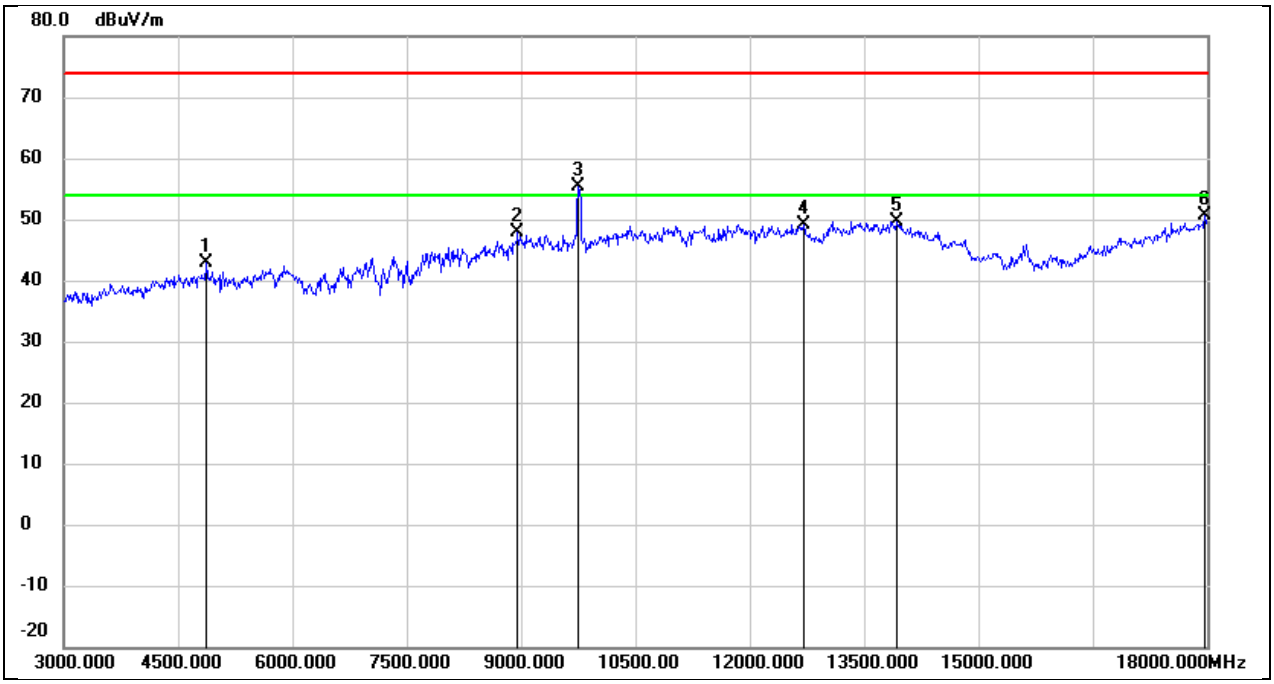
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	46.46	0.49	46.95	74.00	-27.05	peak
2	9660.000	40.22	11.19	51.41	74.00	-22.59	peak
3	10950.000	34.48	14.68	49.16	74.00	-24.84	peak
4	12240.000	31.99	18.46	50.45	74.00	-23.55	peak
5	13980.000	27.17	22.75	49.92	74.00	-24.08	peak
6	17910.000	24.51	26.50	51.01	74.00	-22.99	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



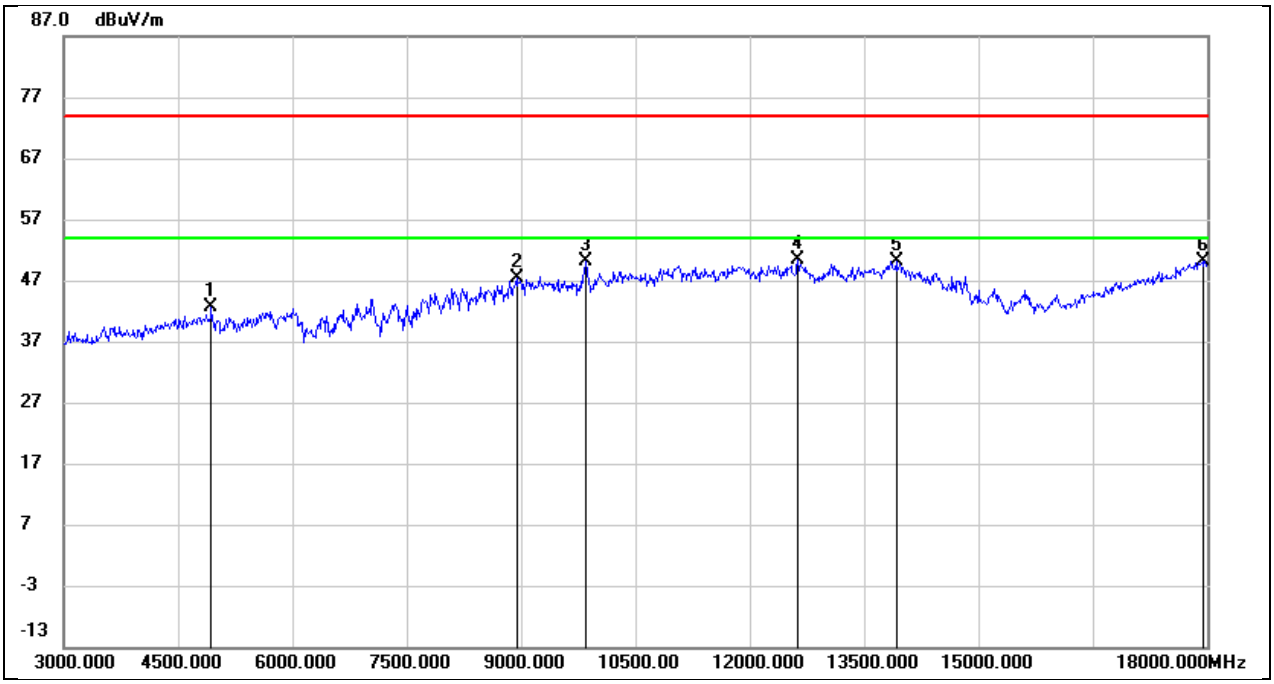
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	36.79	7.28	44.07	74.00	-29.93	peak
2	9120.000	36.96	10.47	47.43	74.00	-26.57	peak
3	9765.000	38.48	11.44	49.92	74.00	-24.08	peak
4	11805.000	31.66	17.65	49.31	74.00	-24.69	peak
5	13575.000	28.31	21.67	49.98	74.00	-24.02	peak
6	17985.000	22.73	26.77	49.50	74.00	-24.50	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



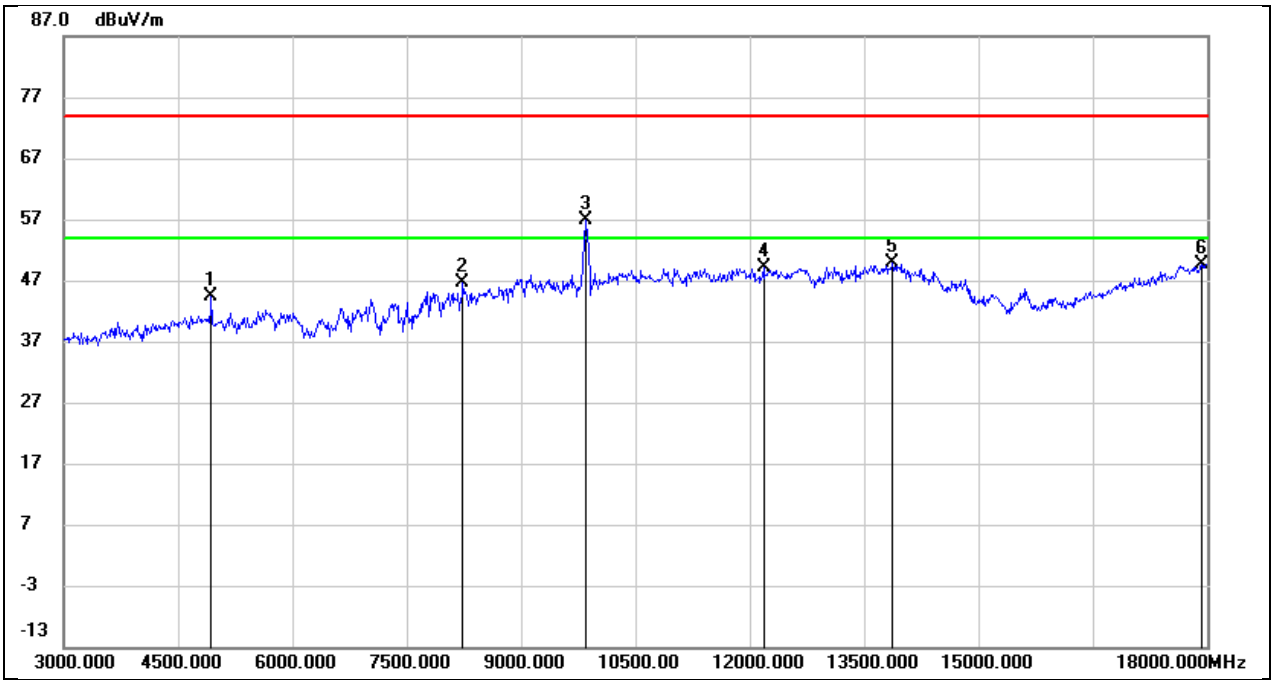
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	42.31	0.61	42.92	74.00	-31.08	peak
2	8955.000	37.35	10.56	47.91	74.00	-26.09	peak
3*	9750.000	44.06	11.40	55.46	/	/	peak
4	12705.000	30.55	18.66	49.21	74.00	-24.79	peak
5	13935.000	26.98	22.72	49.70	74.00	-24.30	peak
6	17970.000	23.80	26.72	50.52	74.00	-23.48	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2462.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



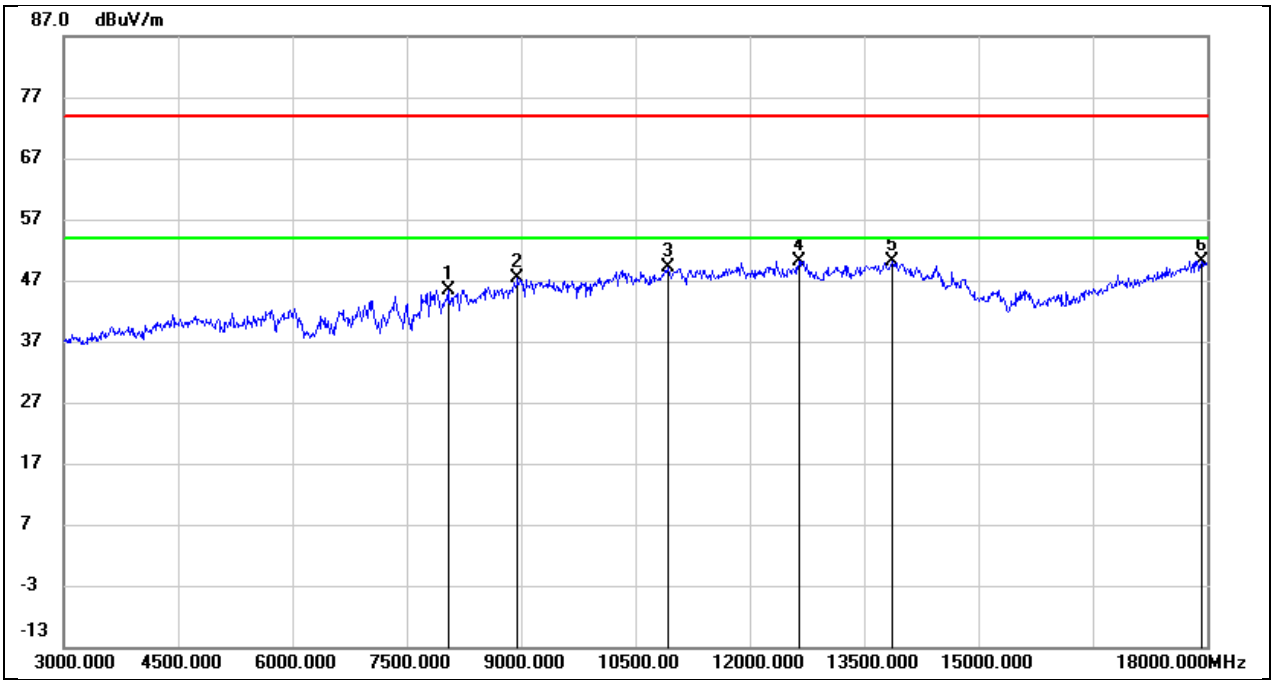
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	41.97	0.71	42.68	74.00	-31.32	peak
2	8940.000	37.01	10.35	47.36	74.00	-26.64	peak
3	9855.000	38.28	11.78	50.06	74.00	-23.94	peak
4	12630.000	31.87	18.39	50.26	74.00	-23.74	peak
5	13920.000	27.37	22.71	50.08	74.00	-23.92	peak
6	17940.000	23.51	26.61	50.12	74.00	-23.88	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2462.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



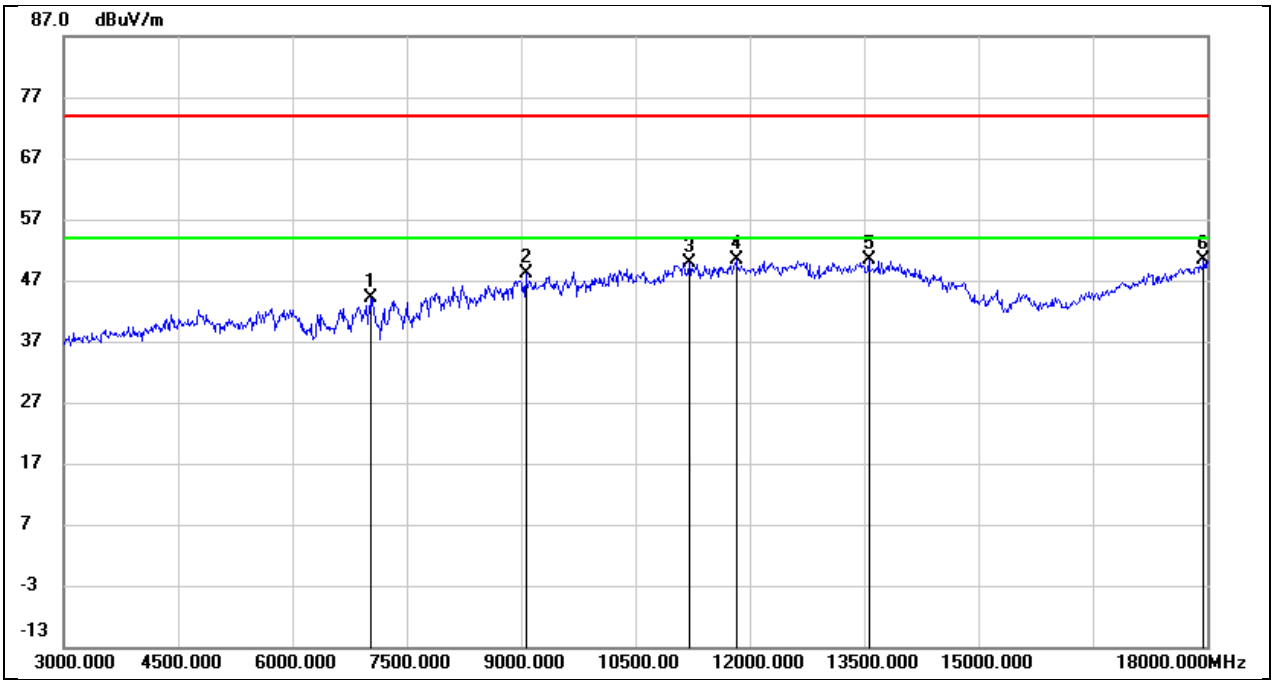
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	43.68	0.71	44.39	74.00	-29.61	peak
2	8235.000	37.93	8.70	46.63	74.00	-27.37	peak
3*	9840.000	45.08	11.72	56.80	/	/	peak
4	12180.000	30.80	18.33	49.13	74.00	-24.87	peak
5	13875.000	27.16	22.68	49.84	74.00	-24.16	peak
6	17925.000	23.04	26.55	49.59	74.00	-24.41	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2422.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



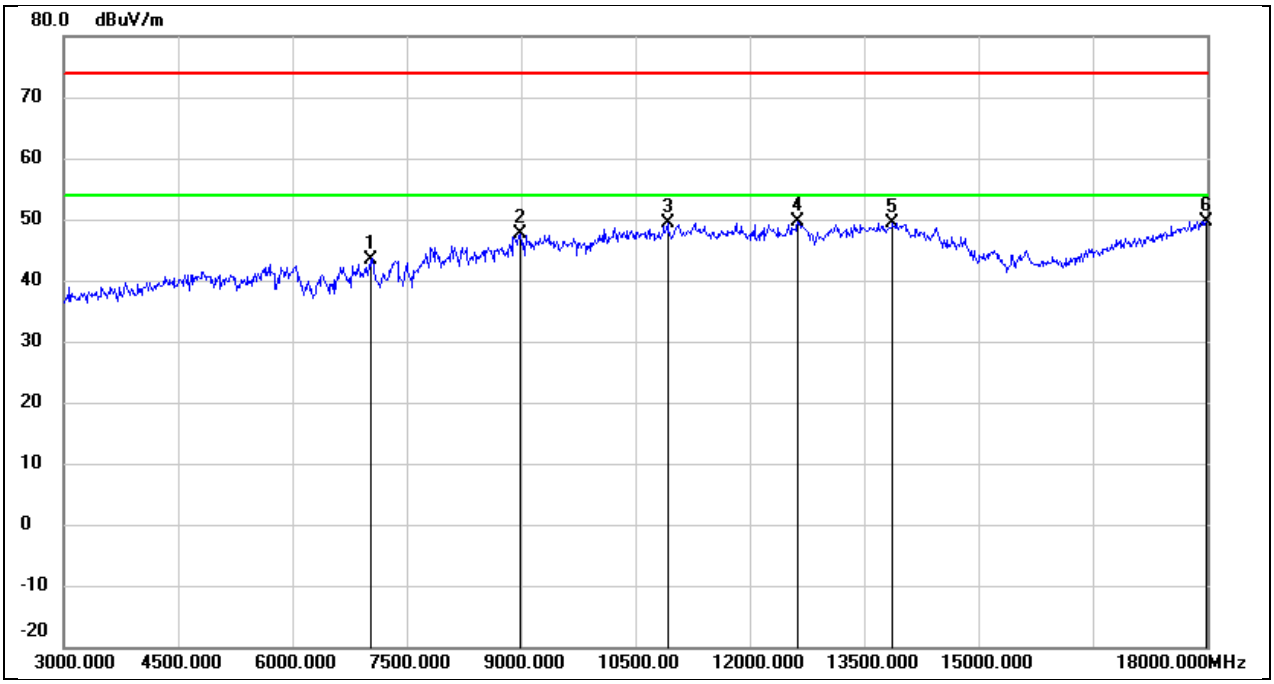
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8040.000	38.08	7.36	45.44	74.00	-28.56	peak
2	8955.000	36.73	10.56	47.29	74.00	-26.71	peak
3	10920.000	34.53	14.54	49.07	74.00	-24.93	peak
4	12645.000	31.81	18.44	50.25	74.00	-23.75	peak
5	13875.000	27.51	22.68	50.19	74.00	-23.81	peak
6	17925.000	23.62	26.55	50.17	74.00	-23.83	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2422.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



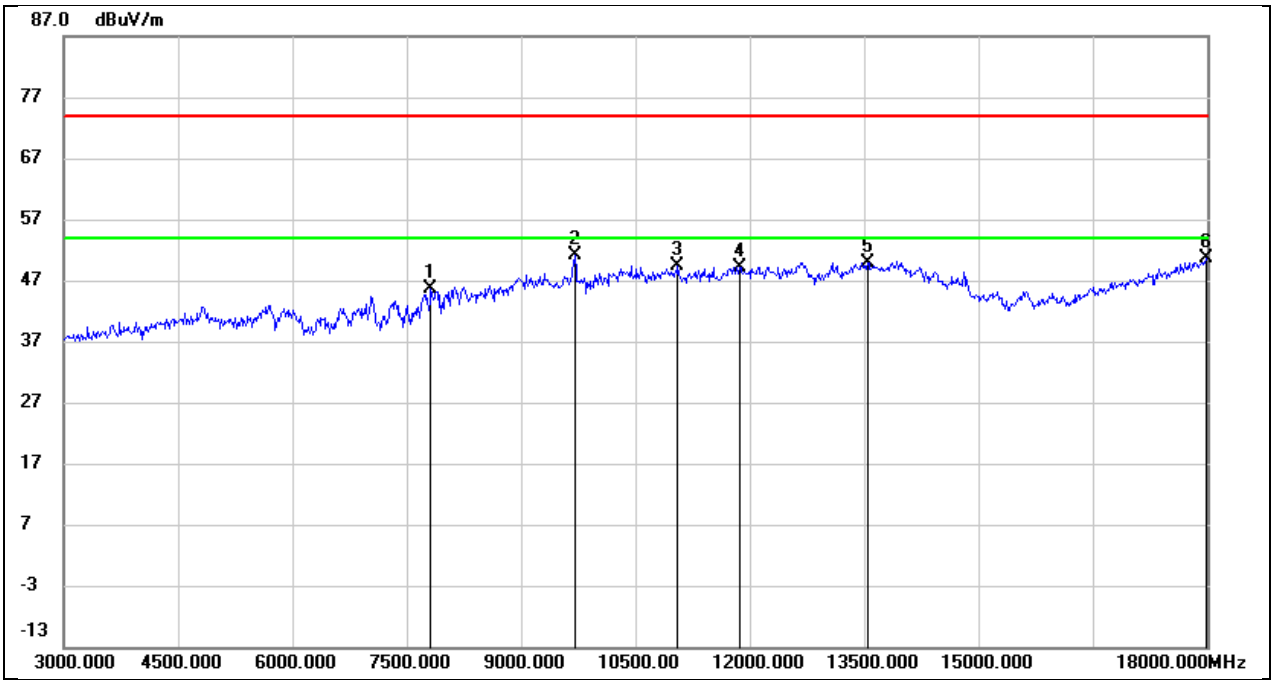
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	36.83	7.28	44.11	74.00	-29.89	peak
2	9060.000	37.25	10.82	48.07	74.00	-25.93	peak
3	11205.000	34.47	15.41	49.88	74.00	-24.12	peak
4	11820.000	32.57	17.73	50.30	74.00	-23.70	peak
5	13560.000	28.60	21.67	50.27	74.00	-23.73	peak
6	17955.000	23.82	26.66	50.48	74.00	-23.52	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2424.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



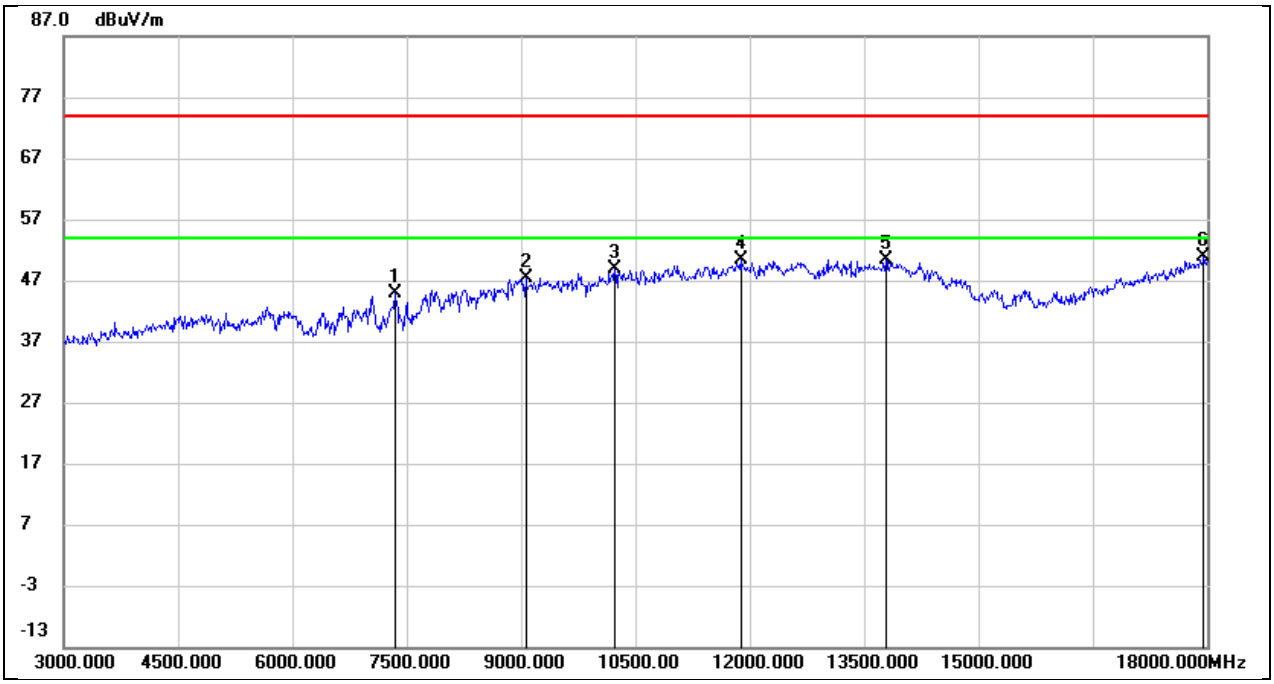
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	36.18	7.28	43.46	74.00	-30.54	peak
2	8985.000	36.77	10.97	47.74	74.00	-26.26	peak
3	10920.000	34.77	14.54	49.31	74.00	-24.69	peak
4	12630.000	31.14	18.39	49.53	74.00	-24.47	peak
5	13875.000	26.74	22.68	49.42	74.00	-24.58	peak
6	17985.000	22.92	26.77	49.69	74.00	-24.31	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2424.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



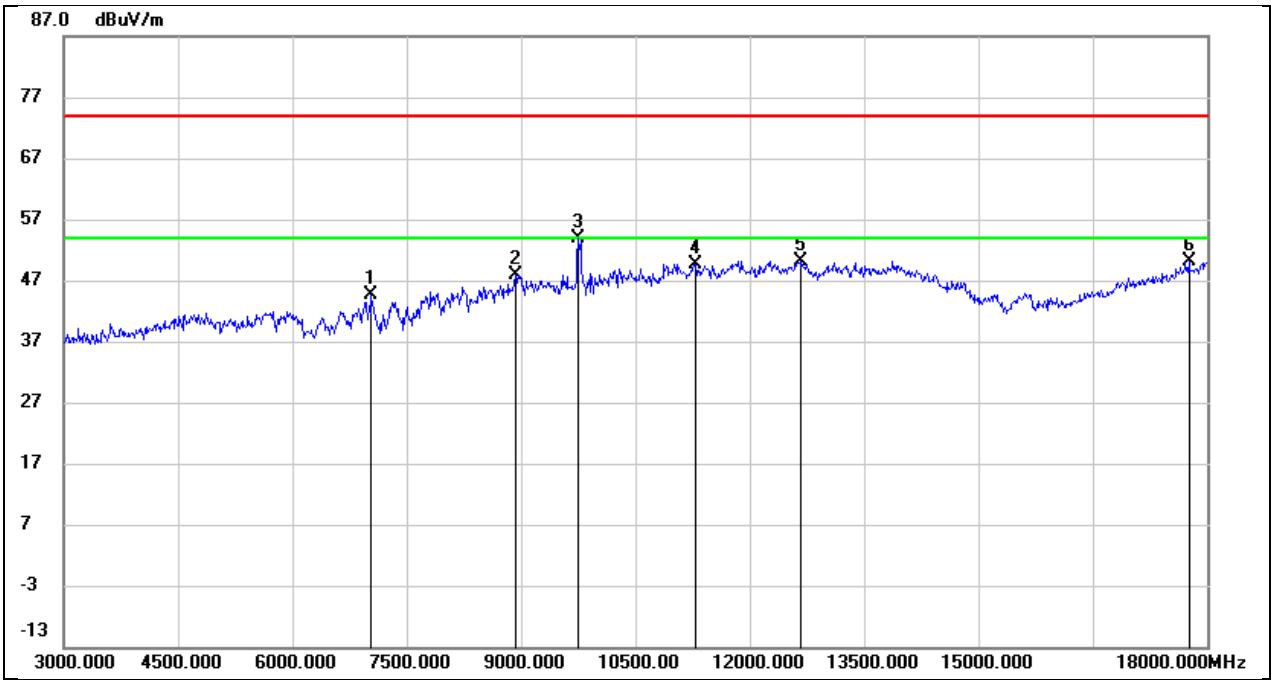
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7815.000	38.17	7.50	45.67	74.00	-28.33	peak
2	9705.000	39.74	11.30	51.04	74.00	-22.96	peak
3	11055.000	34.37	15.04	49.41	74.00	-24.59	peak
4	11865.000	31.33	17.91	49.24	74.00	-24.76	peak
5	13545.000	28.23	21.68	49.91	74.00	-24.09	peak
6	17985.000	23.85	26.77	50.62	74.00	-23.38	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



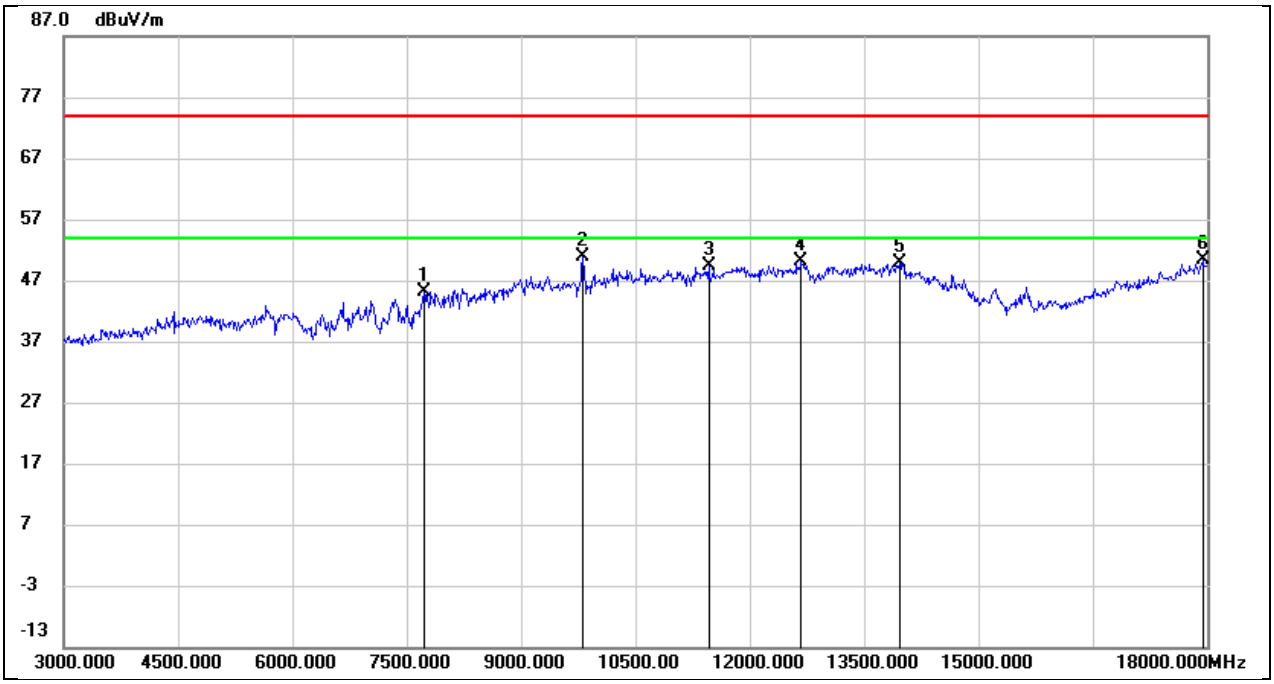
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7350.000	37.61	7.17	44.78	74.00	-29.22	peak
2	9060.000	36.63	10.82	47.45	74.00	-26.55	peak
3	10230.000	36.21	12.62	48.83	74.00	-25.17	peak
4	11880.000	32.51	17.97	50.48	74.00	-23.52	peak
5	13785.000	27.87	22.57	50.44	74.00	-23.56	peak
6	17955.000	24.14	26.66	50.80	74.00	-23.20	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



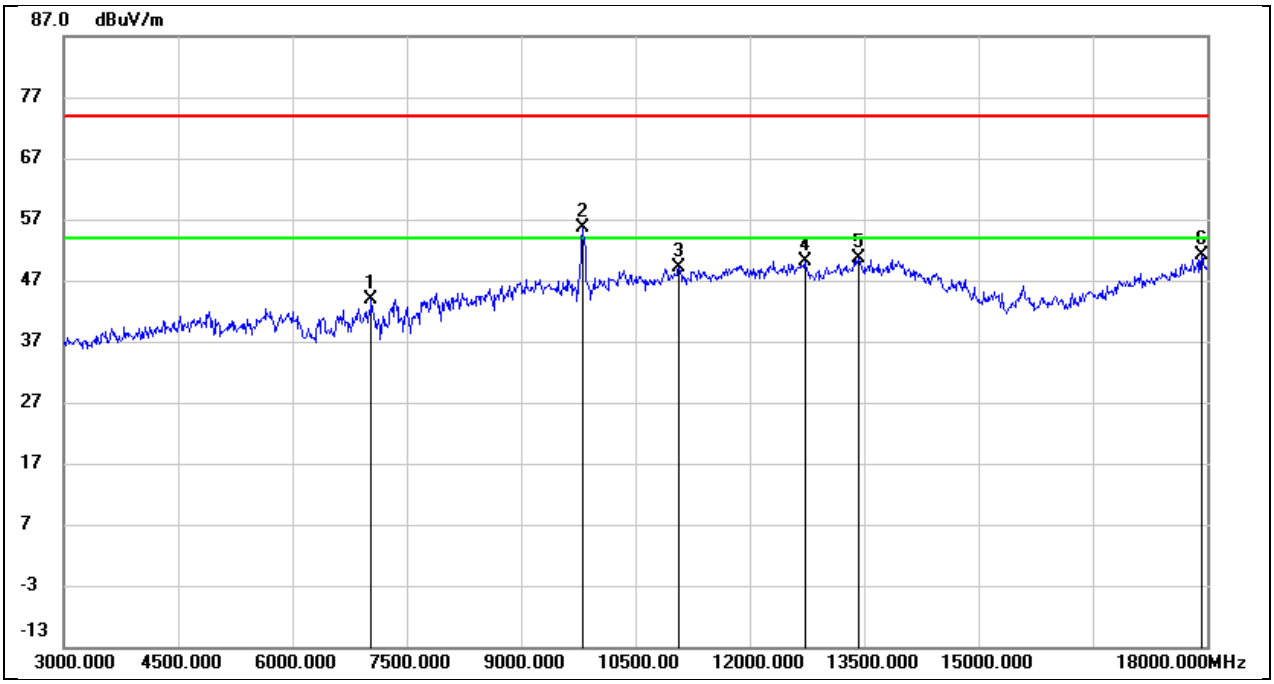
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	37.34	7.28	44.62	74.00	-29.38	peak
2	8925.000	37.73	10.14	47.87	74.00	-26.13	peak
3*	9750.000	42.48	11.40	53.88	/	/	peak
4	11295.000	33.77	15.93	49.70	74.00	-24.30	peak
5	12660.000	31.66	18.49	50.15	74.00	-23.85	peak
6	17760.000	24.33	25.72	50.05	74.00	-23.95	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2452.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



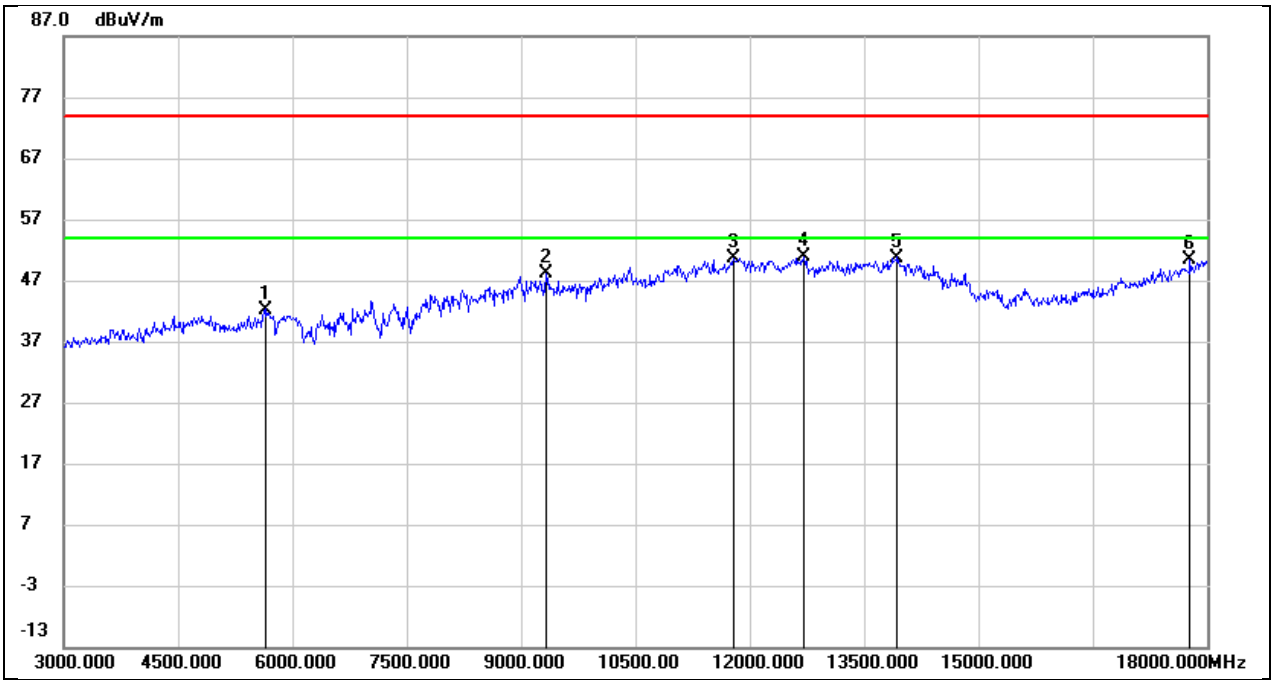
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7725.000	37.91	7.28	45.19	74.00	-28.81	peak
2	9810.000	39.38	11.56	50.94	74.00	-23.06	peak
3	11460.000	32.52	16.74	49.26	74.00	-24.74	peak
4	12675.000	31.62	18.54	50.16	74.00	-23.84	peak
5	13965.000	27.16	22.74	49.90	74.00	-24.10	peak
6	17940.000	23.73	26.61	50.34	74.00	-23.66	peak

Test Mode:	SRD 40MHz	Frequency(MHz):	2452.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



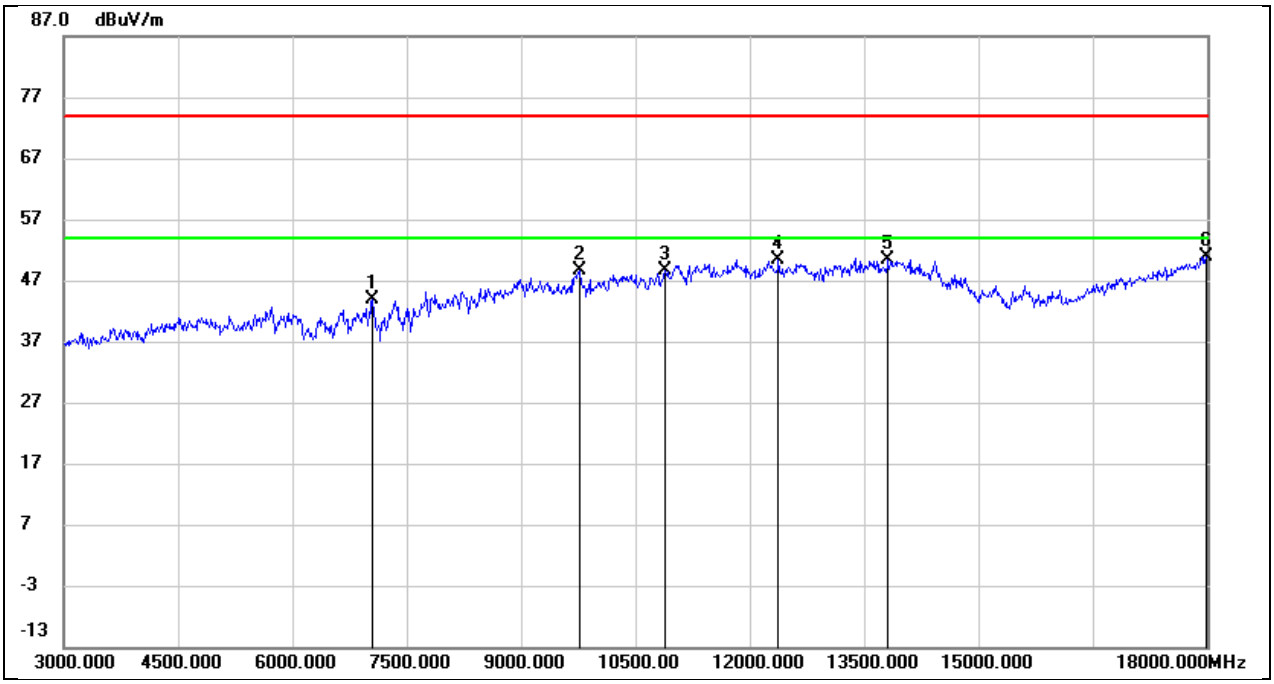
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	36.53	7.28	43.81	74.00	-30.19	peak
2*	9810.000	44.18	11.56	55.74	/	/	peak
3	11070.000	34.02	15.08	49.10	74.00	-24.90	peak
4	12720.000	31.41	18.71	50.12	74.00	-23.88	peak
5	13425.000	29.09	21.52	50.61	74.00	-23.39	peak
6	17925.000	24.50	26.55	51.05	74.00	-22.95	peak

Test Mode:	SRD 60MHz	Frequency(MHz):	2432.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



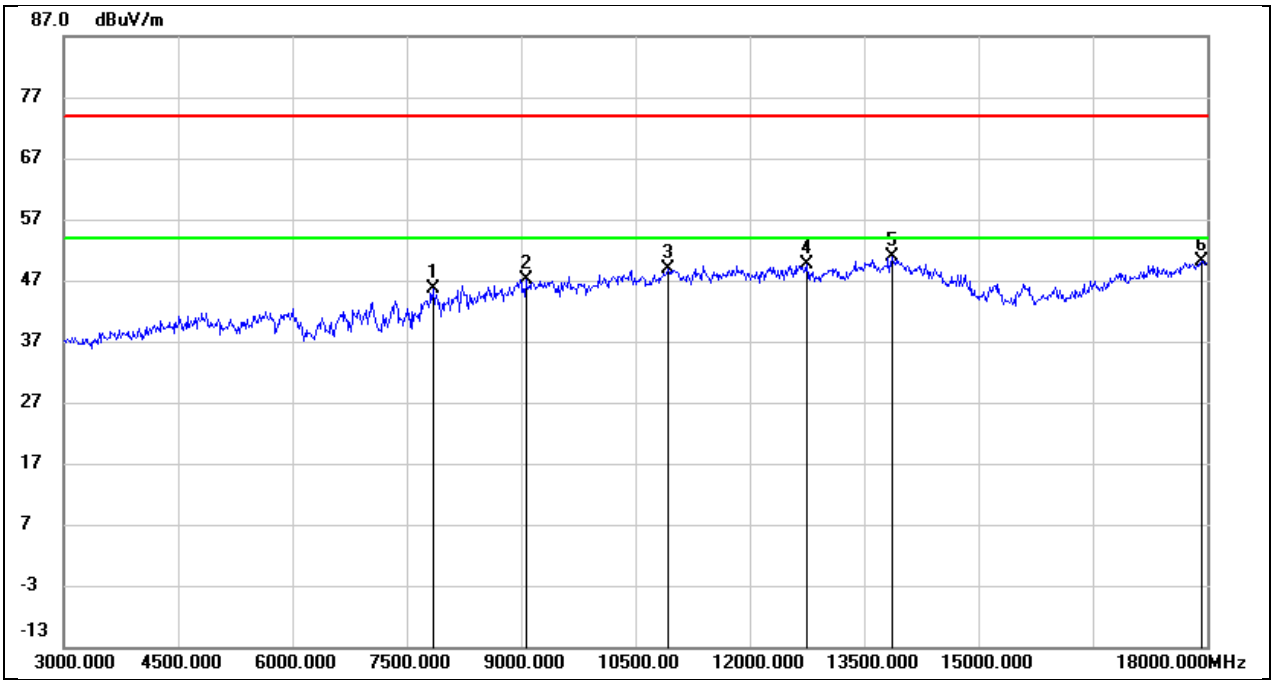
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5655.000	39.58	2.67	42.25	74.00	-31.75	peak
2	9330.000	37.91	10.30	48.21	74.00	-25.79	peak
3	11790.000	33.10	17.60	50.70	74.00	-23.30	peak
4	12705.000	32.14	18.66	50.80	74.00	-23.20	peak
5	13935.000	28.03	22.72	50.75	74.00	-23.25	peak
6	17775.000	24.52	25.86	50.38	74.00	-23.62	peak

Test Mode:	SRD 60MHz	Frequency(MHz):	2432.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



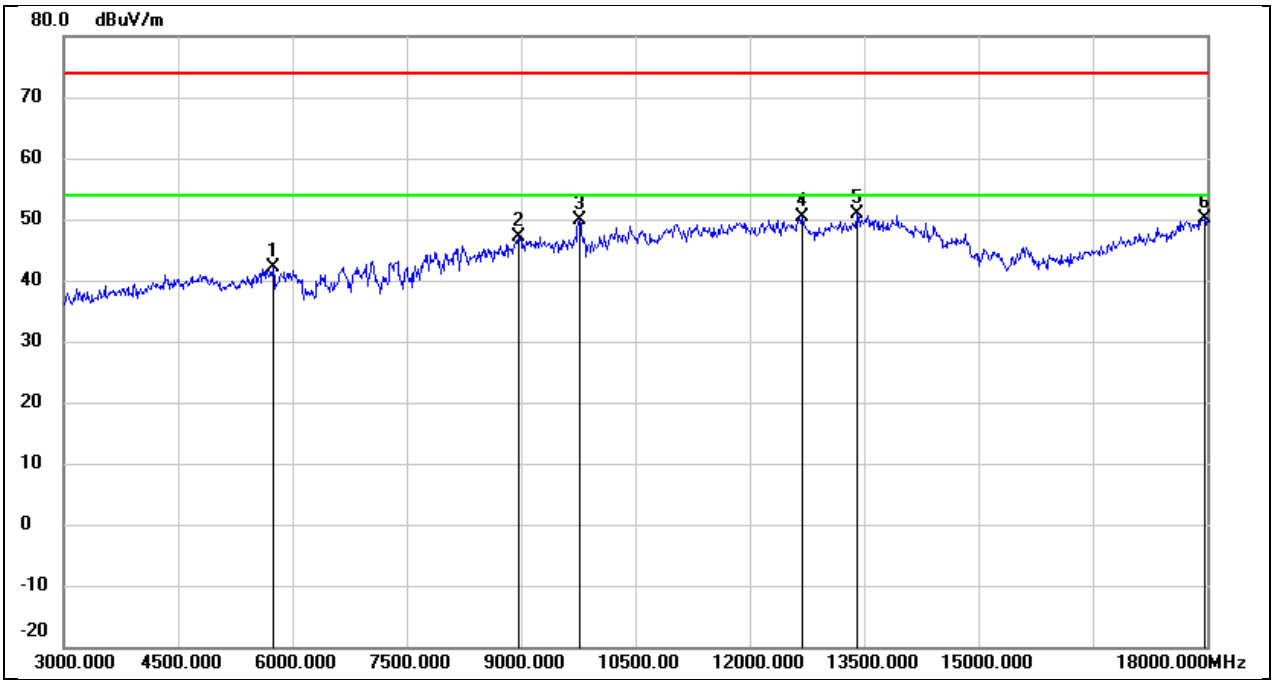
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7050.000	36.62	7.19	43.81	74.00	-30.19	peak
2	9765.000	37.08	11.44	48.52	74.00	-25.48	peak
3	10890.000	34.35	14.39	48.74	74.00	-25.26	peak
4	12375.000	31.47	18.90	50.37	74.00	-23.63	peak
5	13815.000	27.74	22.65	50.39	74.00	-23.61	peak
6	17985.000	24.11	26.77	50.88	74.00	-23.12	peak

Test Mode:	SRD 60MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



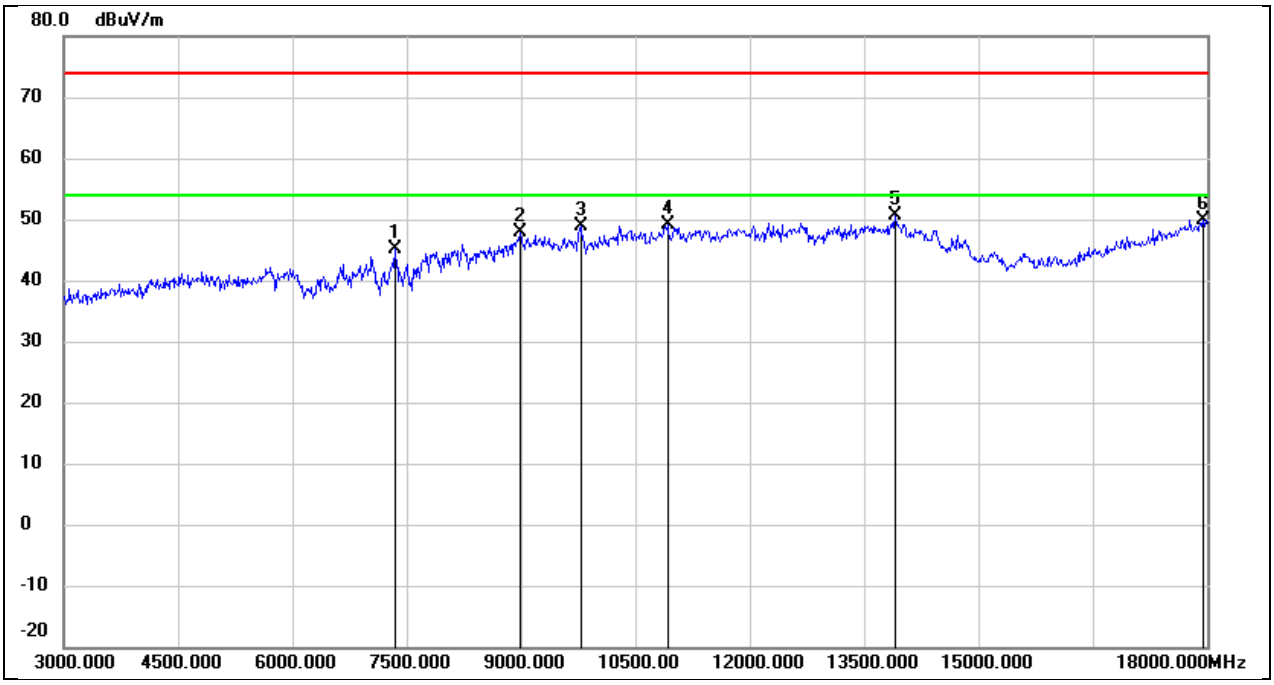
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7845.000	38.14	7.42	45.56	74.00	-28.44	peak
2	9060.000	36.32	10.82	47.14	74.00	-26.86	peak
3	10920.000	34.40	14.54	48.94	74.00	-25.06	peak
4	12750.000	30.80	18.83	49.63	74.00	-24.37	peak
5	13875.000	28.22	22.68	50.90	74.00	-23.10	peak
6	17925.000	23.65	26.55	50.20	74.00	-23.80	peak

Test Mode:	SRD 60MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



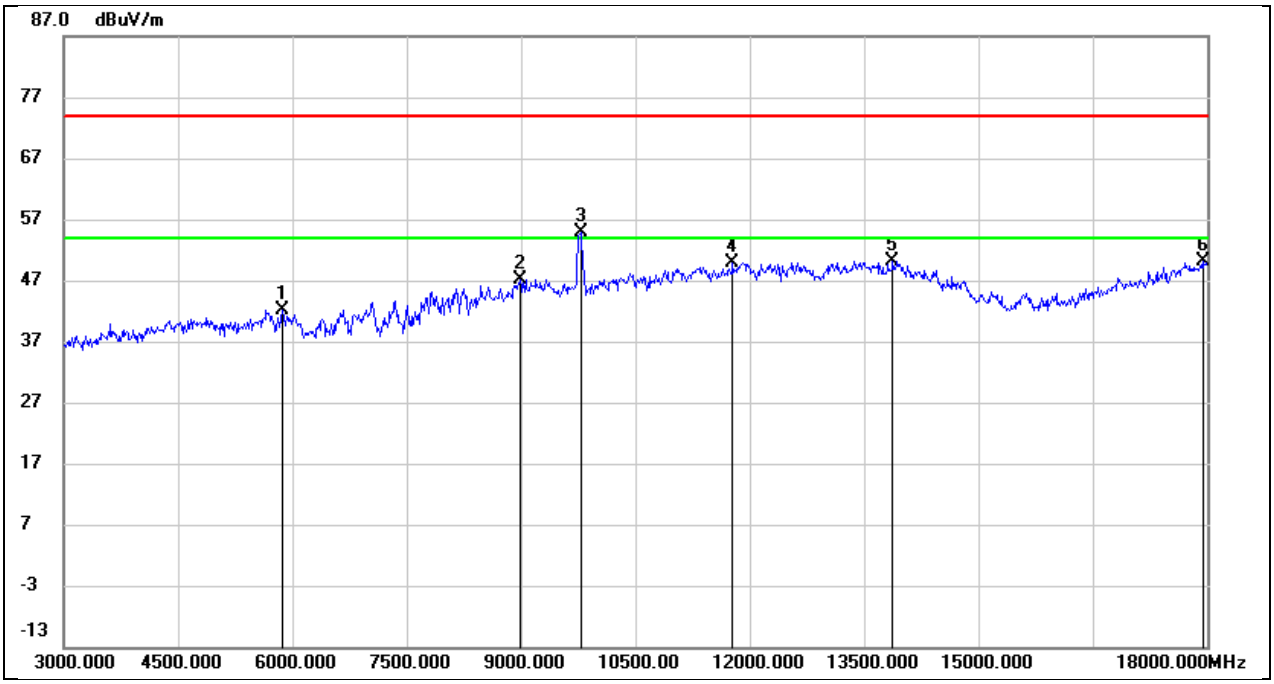
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5745.000	39.71	2.42	42.13	74.00	-31.87	peak
2	8970.000	36.28	10.75	47.03	74.00	-26.97	peak
3	9765.000	38.32	11.44	49.76	74.00	-24.24	peak
4	12690.000	31.76	18.60	50.36	74.00	-23.64	peak
5	13410.000	29.39	21.48	50.87	74.00	-23.13	peak
6	17970.000	23.53	26.72	50.25	74.00	-23.75	peak

Test Mode:	SRD 60MHz	Frequency(MHz):	2442.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7350.000	38.03	7.17	45.20	74.00	-28.80	peak
2	8985.000	36.93	10.97	47.90	74.00	-26.10	peak
3	9780.000	37.30	11.47	48.77	74.00	-25.23	peak
4	10920.000	34.57	14.54	49.11	74.00	-24.89	peak
5	13905.000	27.86	22.70	50.56	74.00	-23.44	peak
6	17940.000	23.37	26.61	49.98	74.00	-24.02	peak

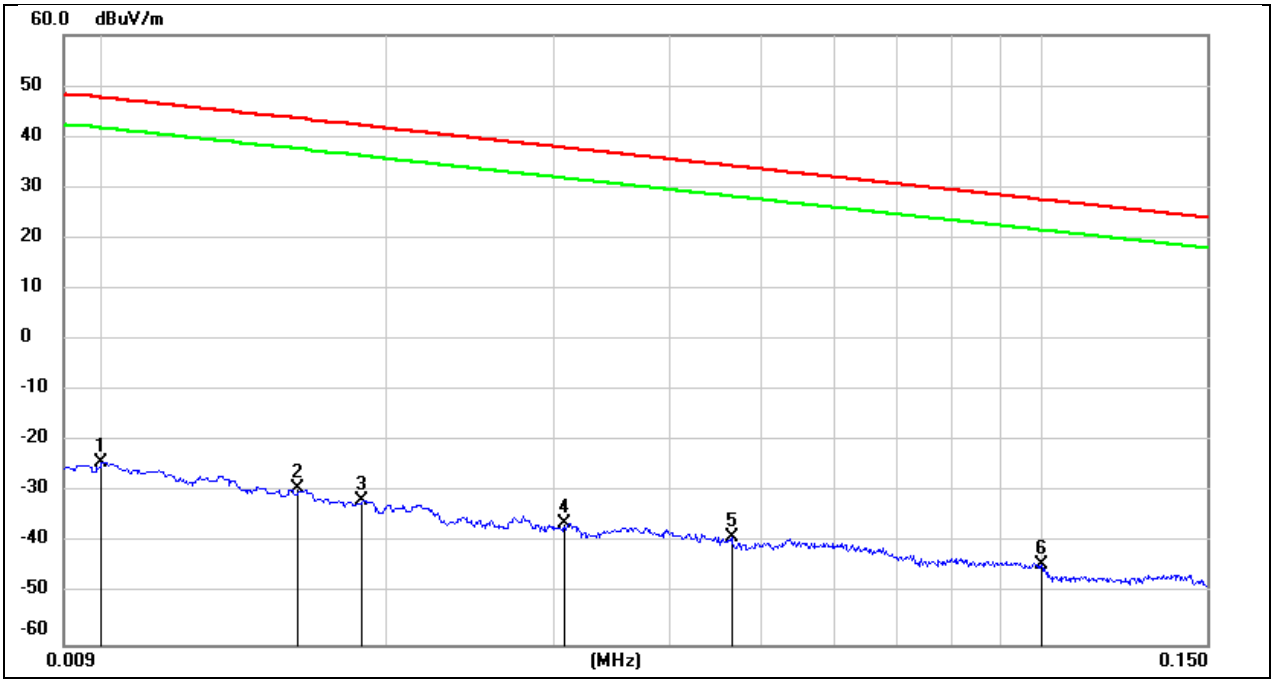
Test Mode:	SRD 60MHz	Frequency(MHz):	2442.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	39.61	2.55	42.16	74.00	-31.84	peak
2	8985.000	36.18	10.97	47.15	74.00	-26.85	peak
3*	9780.000	43.29	11.47	54.76	/	/	peak
4	11775.000	32.43	17.56	49.99	74.00	-24.01	peak
5	13875.000	27.53	22.68	50.21	74.00	-23.79	peak
6	17940.000	23.57	26.61	50.18	74.00	-23.82	peak

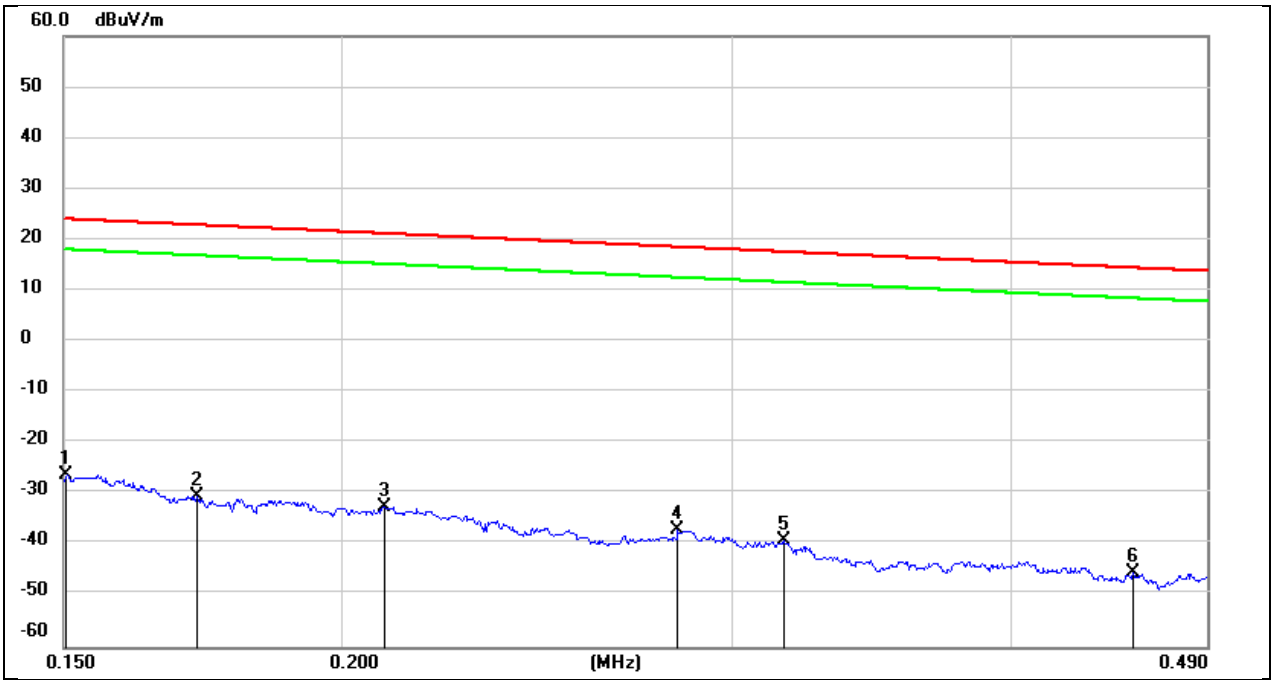
8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



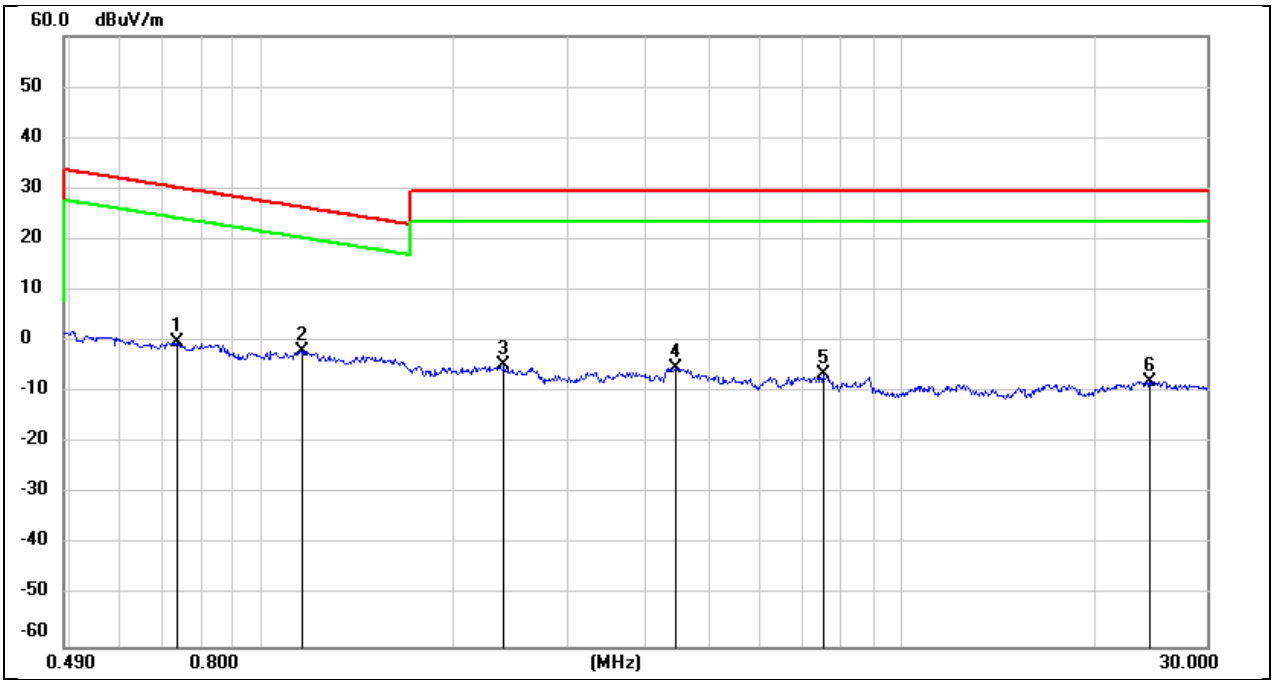
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	77.22	-101.40	-24.18	47.60	-71.78	peak
2	0.0160	71.97	-101.37	-29.40	43.52	-72.92	peak
3	0.0188	69.64	-101.35	-31.71	42.12	-73.83	peak
4	0.0309	65.16	-101.39	-36.23	37.80	-74.03	peak
5	0.0466	62.67	-101.46	-38.79	34.23	-73.02	peak
6	0.1000	57.67	-101.80	-44.13	27.60	-71.73	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1504	75.25	-101.63	-26.38	24.06	-50.44	peak
2	0.1720	71.19	-101.67	-30.48	22.90	-53.38	peak
3	0.2091	69.32	-101.73	-32.41	21.19	-53.60	peak
4	0.2832	64.67	-101.83	-37.16	18.56	-55.72	peak
5	0.3163	62.70	-101.87	-39.17	17.60	-56.77	peak
6	0.4540	56.46	-102.02	-45.56	14.46	-60.02	peak

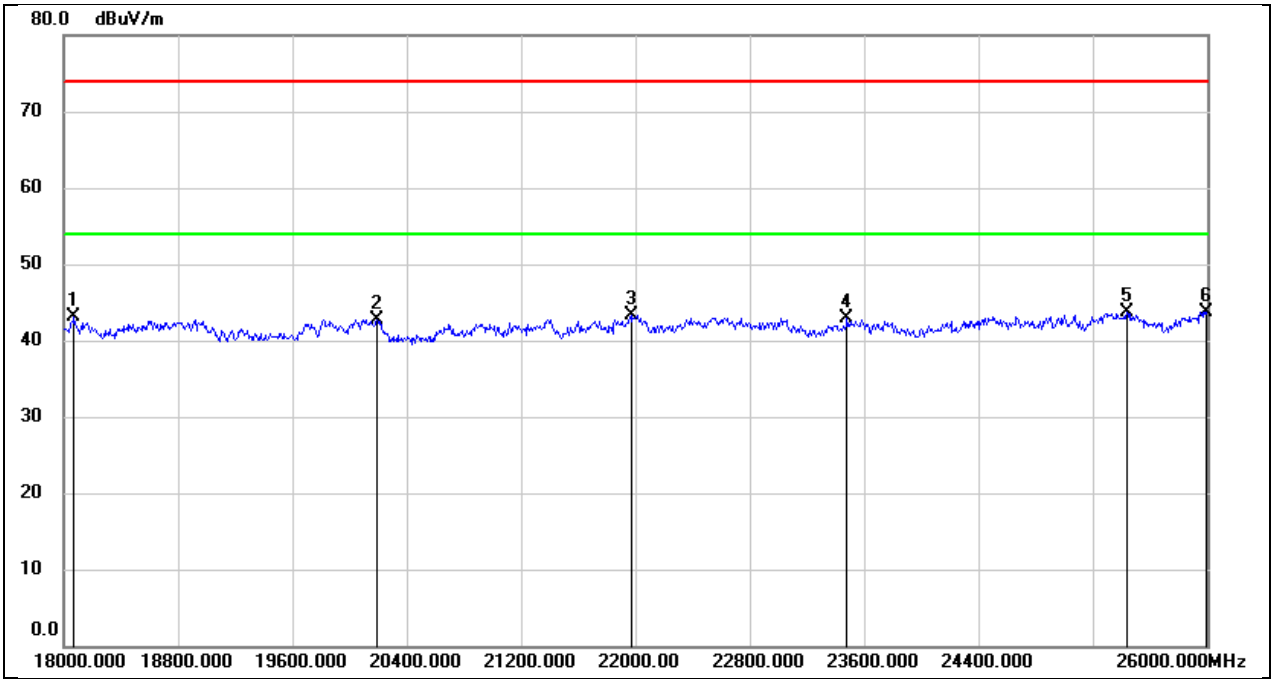
Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.7364	61.87	-62.11	-0.24	30.26	-30.50	peak
2	1.1531	60.25	-62.20	-1.95	26.37	-28.32	peak
3	2.3887	57.15	-61.72	-4.57	29.54	-34.11	peak
4	4.4443	56.29	-61.40	-5.11	29.54	-34.65	peak
5	7.5429	54.58	-61.14	-6.56	29.54	-36.10	peak
6	24.5106	52.58	-60.49	-7.91	29.54	-37.45	peak

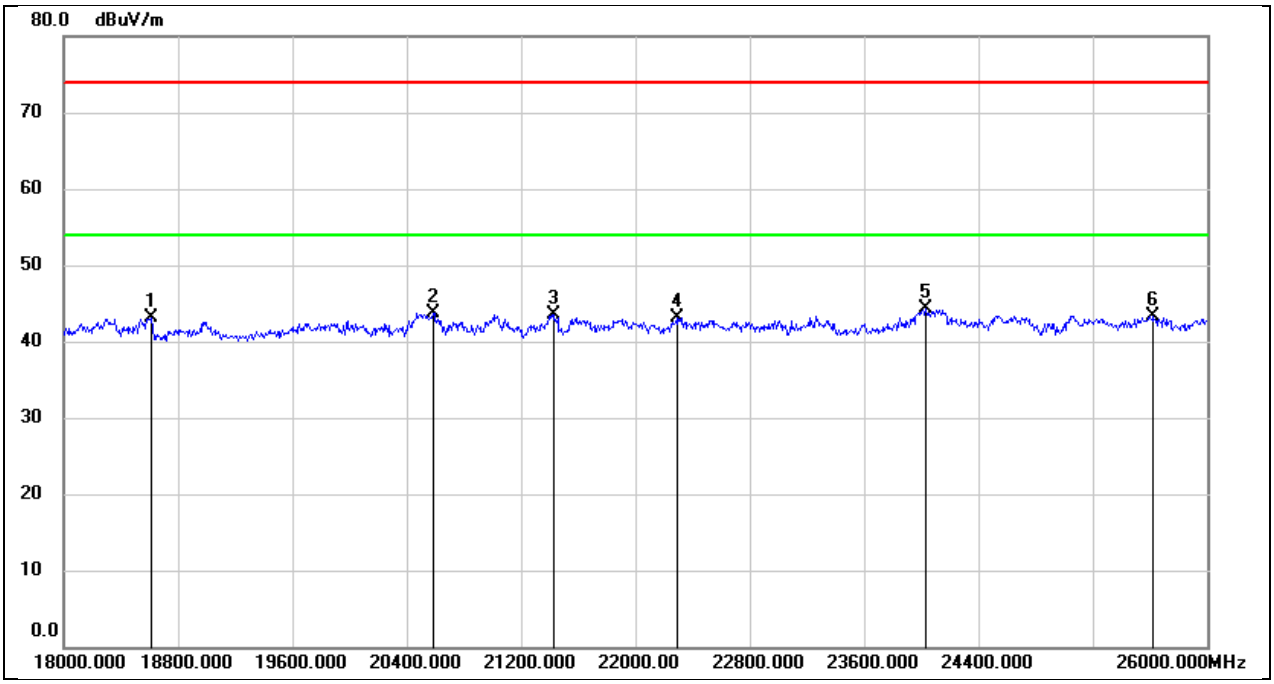
8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18072.000	48.45	-5.43	43.02	74.00	-30.98	peak
2	20192.000	48.23	-5.57	42.66	74.00	-31.34	peak
3	21968.000	47.75	-4.46	43.29	74.00	-30.71	peak
4	23480.000	46.04	-3.16	42.88	74.00	-31.12	peak
5	25440.000	45.41	-1.75	43.66	74.00	-30.34	peak
6	25992.000	44.83	-1.05	43.78	74.00	-30.22	peak

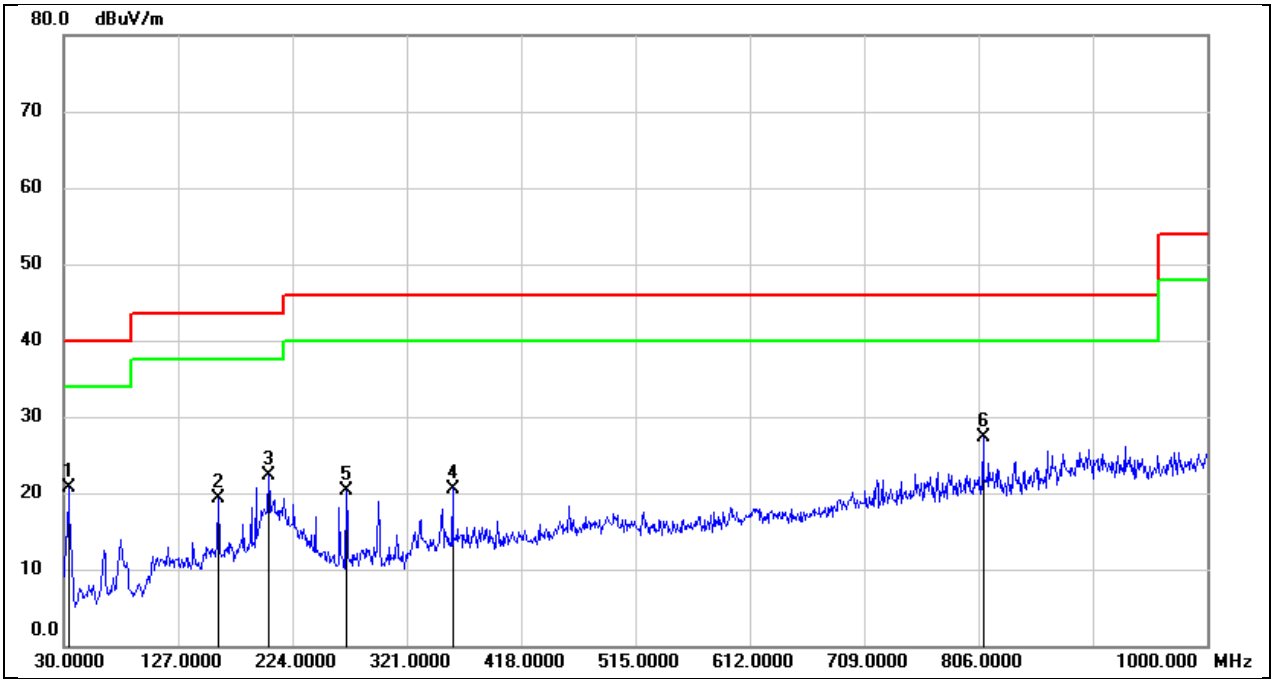
Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18616.000	48.39	-5.34	43.05	74.00	-30.95	peak
2	20584.000	49.00	-5.27	43.73	74.00	-30.27	peak
3	21432.000	48.24	-4.71	43.53	74.00	-30.47	peak
4	22288.000	47.29	-4.17	43.12	74.00	-30.88	peak
5	24032.000	46.97	-2.75	44.22	74.00	-29.78	peak
6	25624.000	44.59	-1.20	43.39	74.00	-30.61	peak

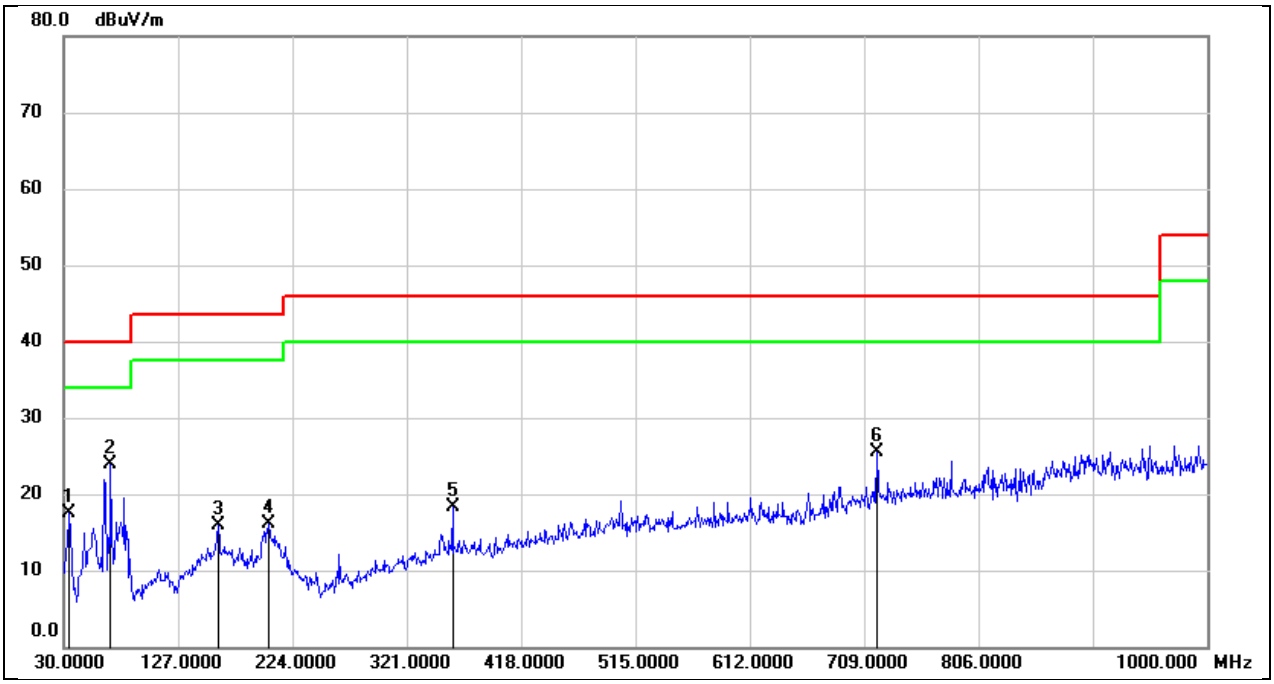
8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	34.76	-13.99	20.77	40.00	-19.23	QP
2	160.9500	32.03	-12.73	19.30	43.50	-24.20	QP
3	203.6300	34.49	-12.27	22.22	43.50	-21.28	QP
4	359.8000	30.16	-9.56	20.60	46.00	-25.40	QP
5	269.5900	33.79	-13.56	20.23	46.00	-25.77	QP
6	809.8800	30.19	-2.85	27.34	46.00	-18.66	QP

Test Mode:	SRD 20MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 14.76 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	31.56	-13.99	17.57	40.00	-22.43	QP
2	69.7699	39.55	-15.61	23.94	40.00	-16.06	QP
3	160.9500	28.59	-12.73	15.86	43.50	-27.64	QP
4	203.6300	28.34	-12.27	16.07	43.50	-27.43	QP
5	359.8000	27.81	-9.56	18.25	46.00	-27.75	QP
6	719.6700	29.61	-4.15	25.46	46.00	-20.54	QP

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203
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.

Please refer to FCC part 15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. TEST DATA

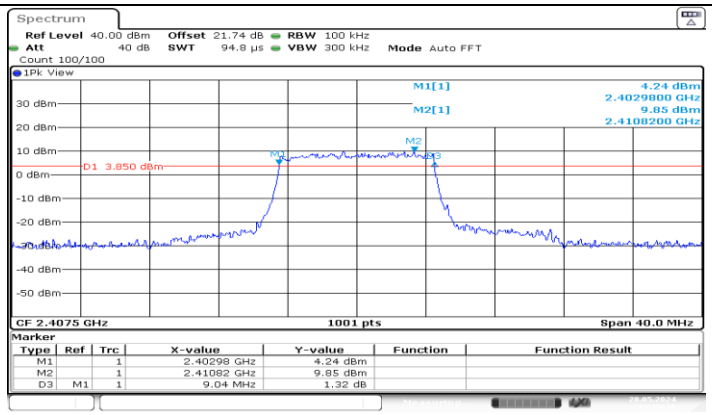
10.1. APPENDIX A: DTS BANDWIDTH

10.1.1. Test Result

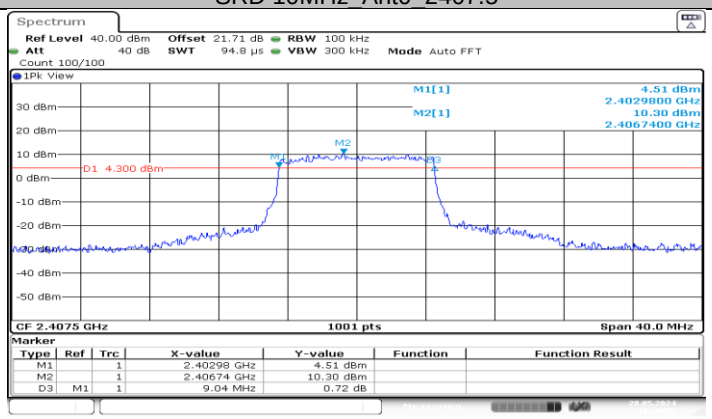
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD 10MHz	Ant0	2407.5	9.04	2402.98	2412.02	≥0.5	PASS
	Ant1	2407.5	9.04	2402.98	2412.02	≥0.5	PASS
	Ant0	2408.5	9.04	2403.98	2413.02	≥0.5	PASS
	Ant1	2408.5	9.04	2403.98	2413.02	≥0.5	PASS
	Ant0	2409.5	9.04	2404.98	2414.02	≥0.5	PASS
	Ant1	2409.5	9.04	2404.98	2414.02	≥0.5	PASS
	Ant0	2410.5	9.04	2405.98	2415.02	≥0.5	PASS
	Ant1	2410.5	9.04	2405.98	2415.02	≥0.5	PASS
	Ant0	2437.5	9.04	2432.98	2442.02	≥0.5	PASS
	Ant1	2437.5	9.04	2432.98	2442.02	≥0.5	PASS
	Ant0	2467.5	9.04	2462.98	2472.02	≥0.5	PASS
	Ant1	2467.5	9.00	2462.98	2471.98	≥0.5	PASS
SRD 20MHz	Ant0	2412.5	17.08	2404.14	2421.22	≥0.5	PASS
	Ant1	2412.5	17.48	2403.94	2421.42	≥0.5	PASS
	Ant0	2413.5	17.60	2404.70	2422.30	≥0.5	PASS
	Ant1	2413.5	17.24	2404.94	2422.18	≥0.5	PASS
	Ant0	2414.5	17.16	2406.06	2423.22	≥0.5	PASS
	Ant1	2414.5	16.52	2406.66	2423.18	≥0.5	PASS
	Ant0	2437.5	17.28	2428.94	2446.22	≥0.5	PASS
	Ant1	2437.5	17.76	2428.66	2446.42	≥0.5	PASS
	Ant0	2462.5	17.68	2453.62	2471.30	≥0.5	PASS
	Ant1	2462.5	17.48	2453.62	2471.10	≥0.5	PASS
SRD 40MHz	Ant0	2422.5	21.68	2411.62	2433.30	≥0.5	PASS
	Ant1	2422.5	19.52	2412.82	2432.34	≥0.5	PASS
	Ant0	2424.5	20.40	2414.34	2434.74	≥0.5	PASS
	Ant1	2424.5	19.52	2414.82	2434.34	≥0.5	PASS
	Ant0	2437.5	20.16	2427.34	2447.50	≥0.5	PASS
	Ant1	2437.5	19.52	2427.82	2447.34	≥0.5	PASS
	Ant0	2452.5	20.16	2442.10	2462.26	≥0.5	PASS
	Ant1	2452.5	18.72	2442.82	2461.54	≥0.5	PASS
SRD 60MHz	Ant0	2432.5	39.24	2412.58	2451.82	≥0.5	PASS
	Ant1	2432.5	42.24	2411.74	2453.98	≥0.5	PASS
	Ant0	2437.5	40.32	2416.74	2457.06	≥0.5	PASS
	Ant1	2437.5	43.08	2415.90	2458.98	≥0.5	PASS
	Ant0	2442.5	38.76	2422.34	2461.10	≥0.5	PASS
	Ant1	2442.5	40.32	2421.14	2461.46	≥0.5	PASS

Note: All antennas had been tested, but only the worst data was recorded in the report.

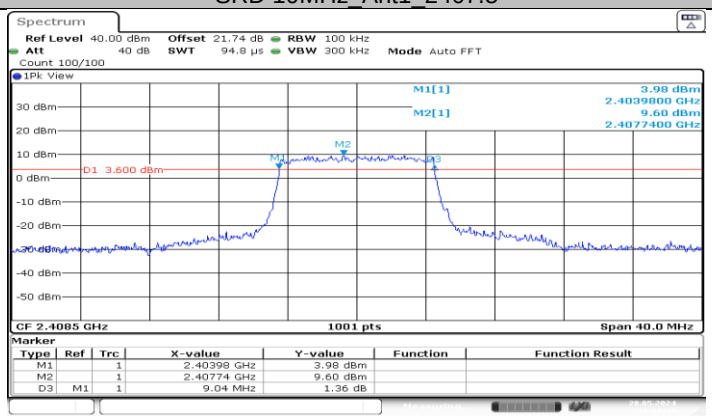
10.1.2. Test Graphs



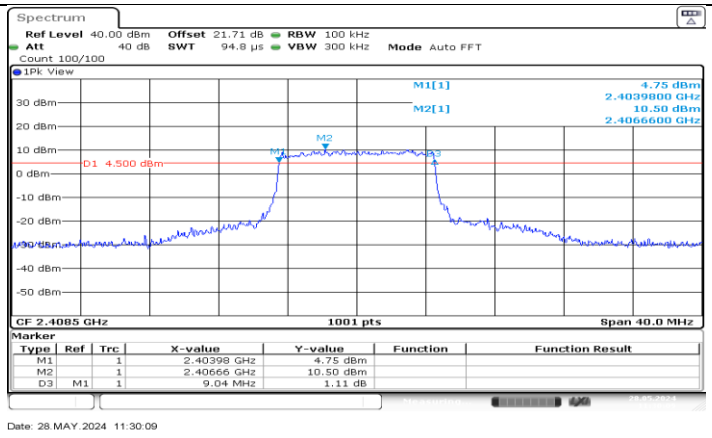
SRD 10MHz_Ant0_2407.5



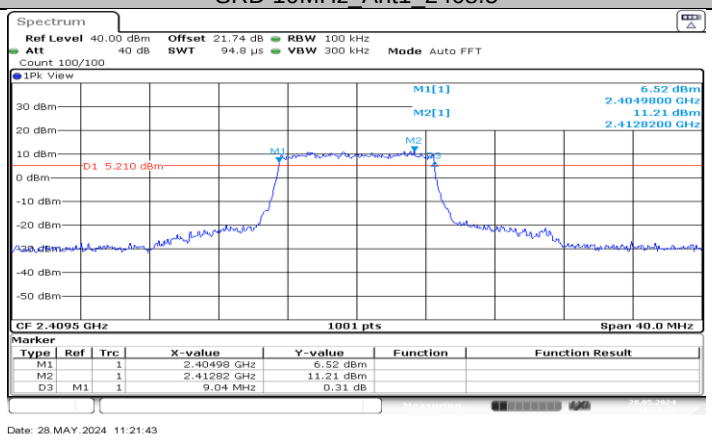
SRD 10MHz_Ant1_2407.5



SRD 10MHz_Ant0_2408.5



SRD 10MHz_Ant1_2408.5



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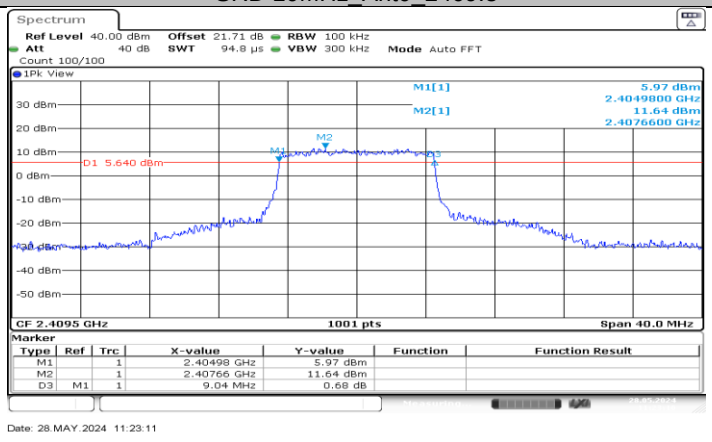
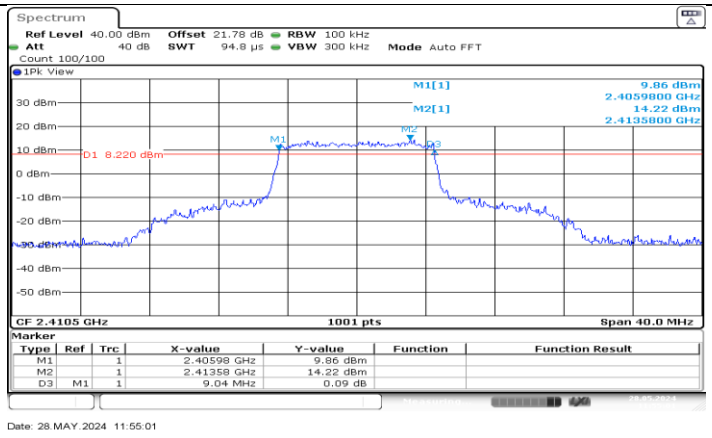
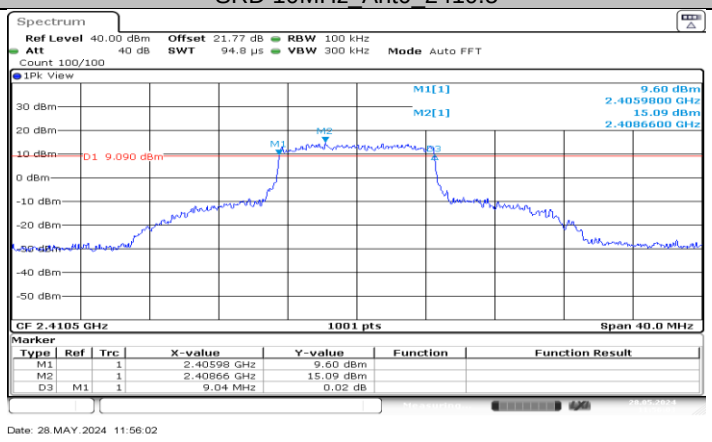


SRD 10MHz_Ant1_2409.5



SRD 10MHz_Ant0_2410.5



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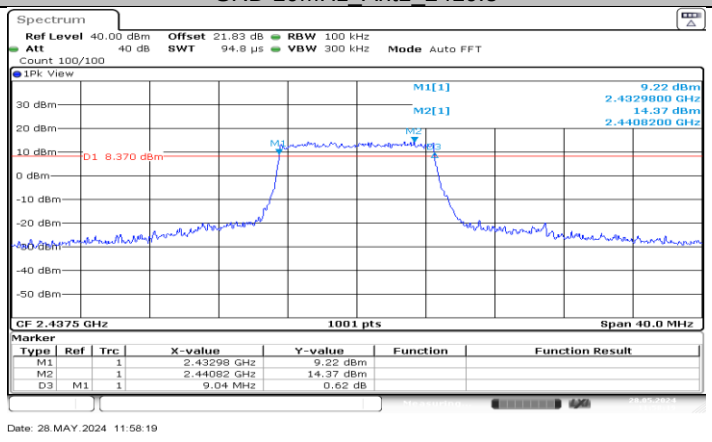
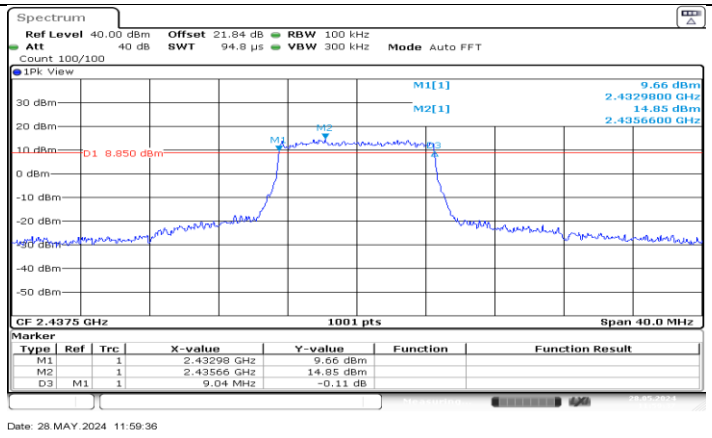
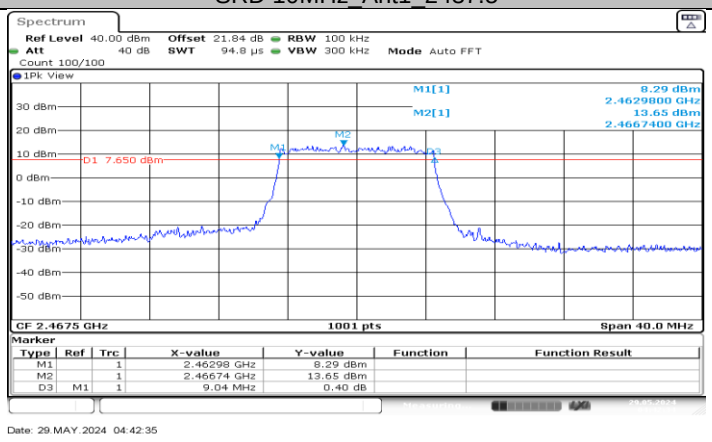


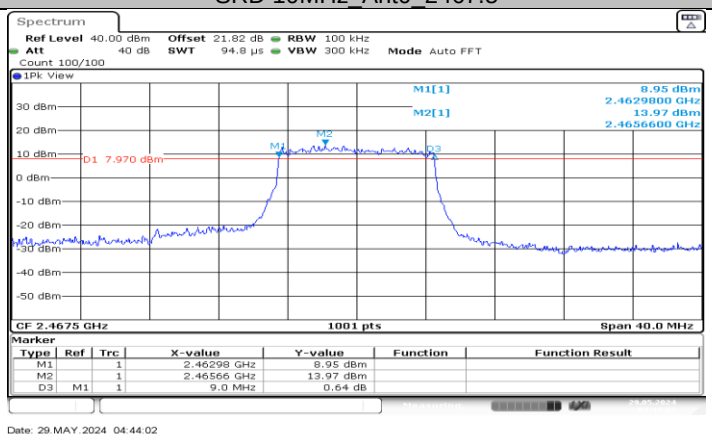
SRD 10MHz_Ant0_2437.5



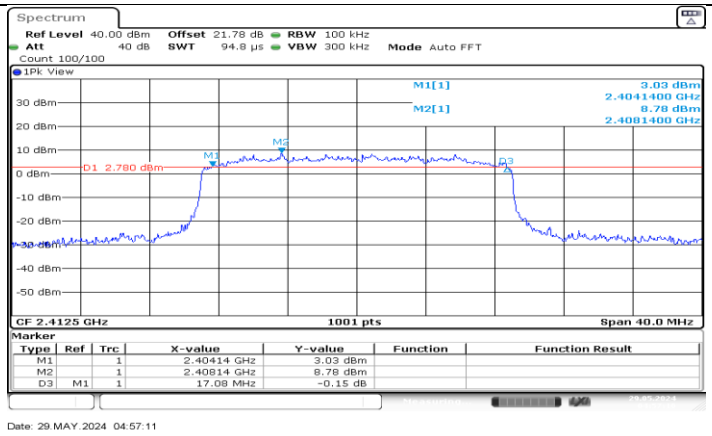
SRD 10MHz_Ant1_2437.5



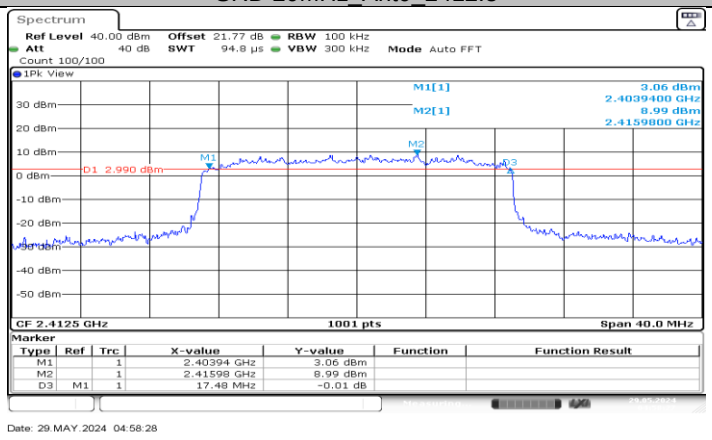
SRD 10MHz_Ant0_2467.5



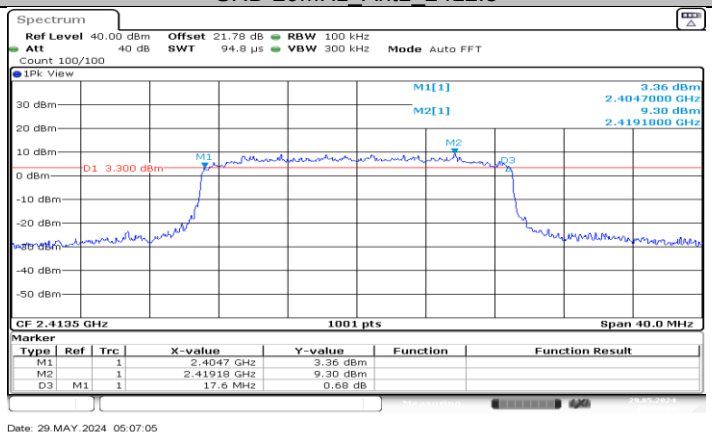
SRD 10MHz_Ant1_2467.5



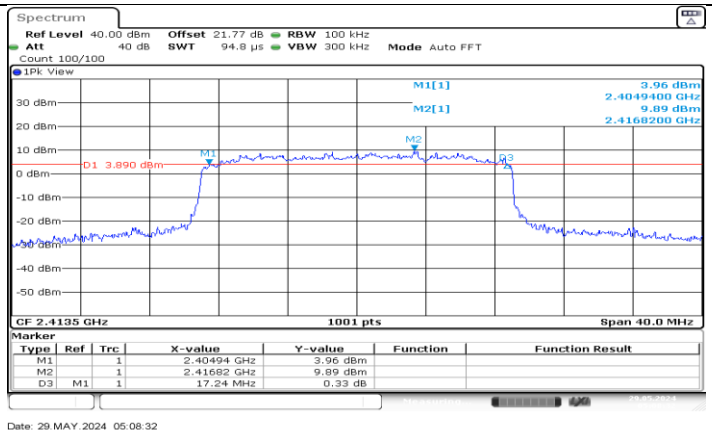
SRD 20MHz_Ant0_2412.5



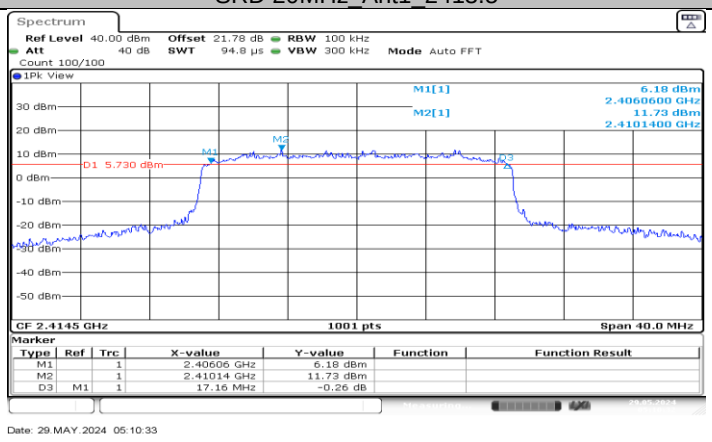
SRD 20MHz_Ant1_2412.5



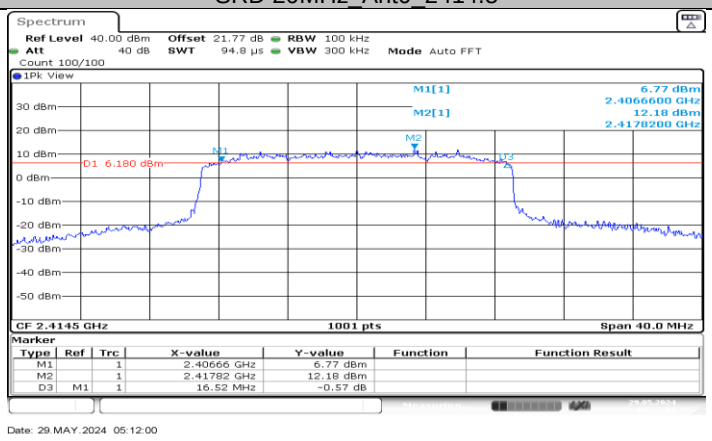
SRD 20MHz_Ant0_2413.5



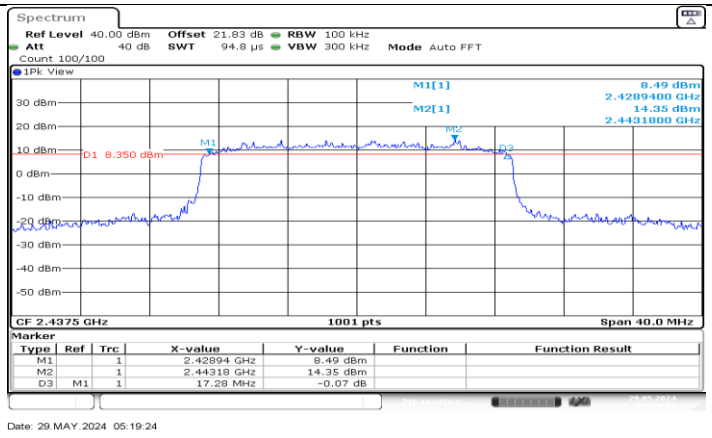
SRD 20MHz_Ant1_2413.5



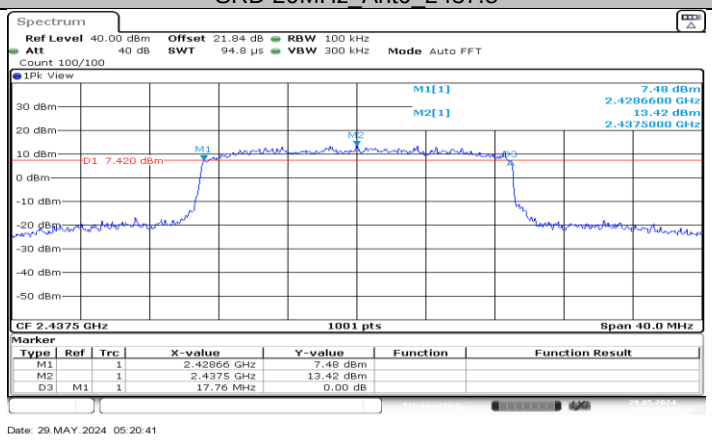
SRD 20MHz_Ant0_2414.5



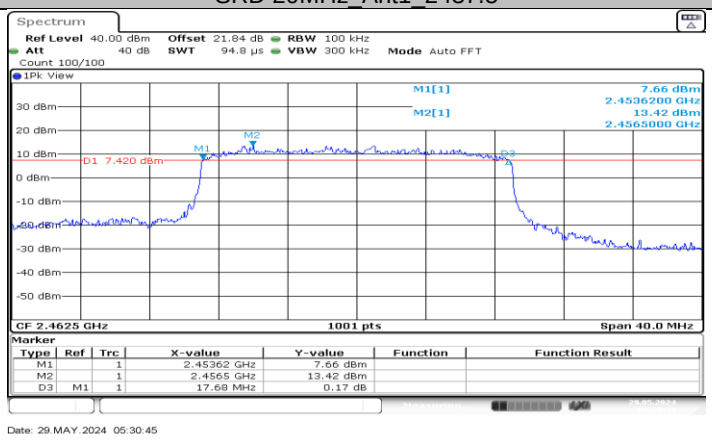
SRD 20MHz_Ant1_2414.5



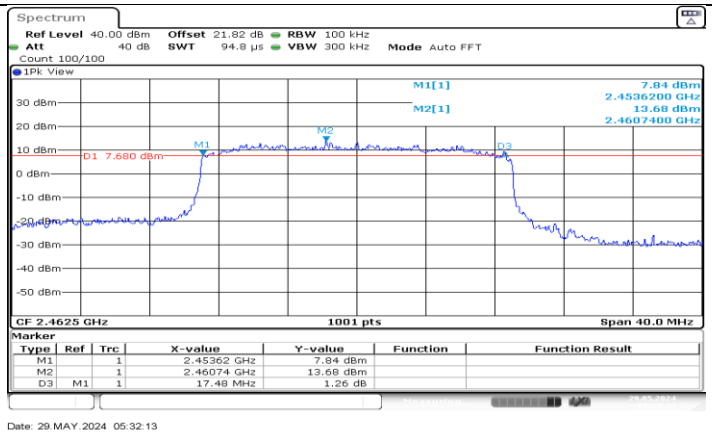
SRD 20MHz_Ant0_2437.5



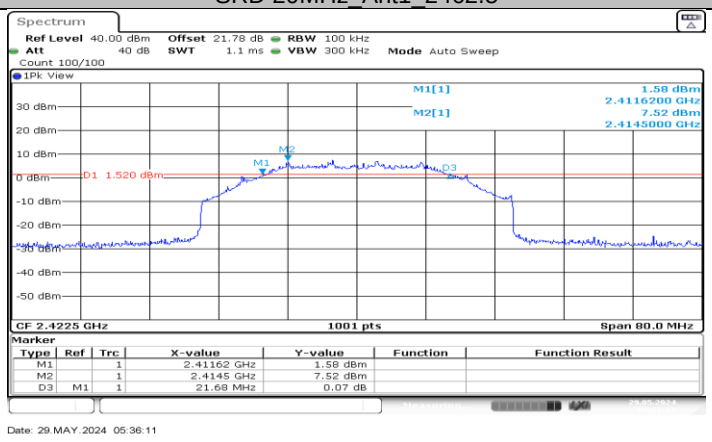
SRD 20MHz_Ant1_2437.5



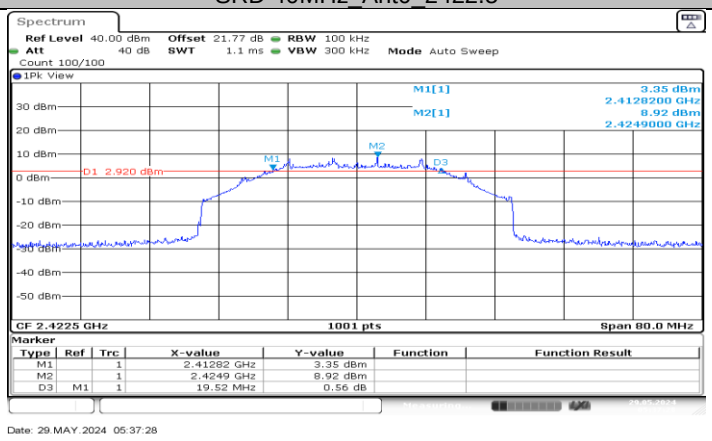
SRD 20MHz_Ant0_2462.5



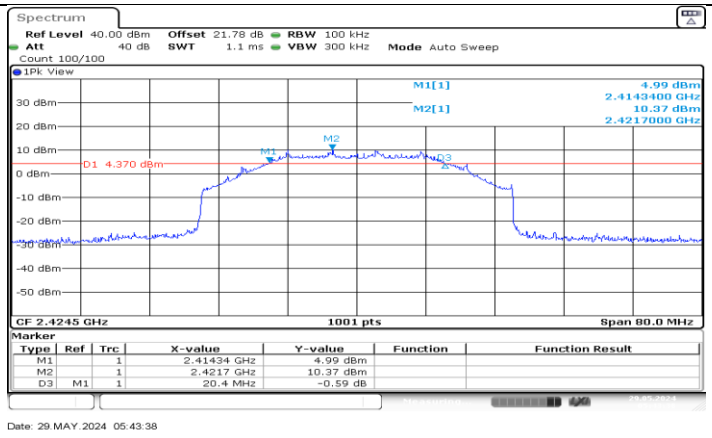
SRD 20MHz_Ant1_2462.5



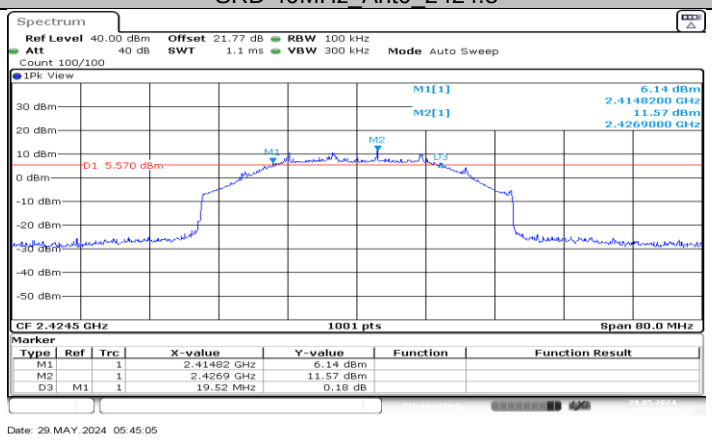
SRD 40MHz_Ant0_2422.5



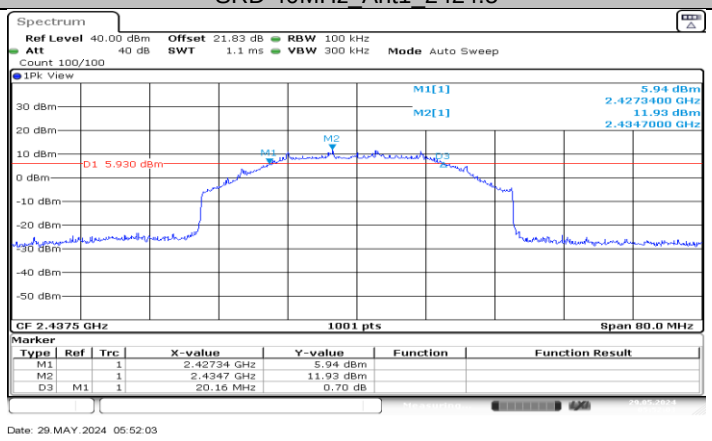
SRD 40MHz_Ant1_2422.5



SRD 40MHz_Ant0_2424.5



SRD 40MHz_Ant1_2424.5



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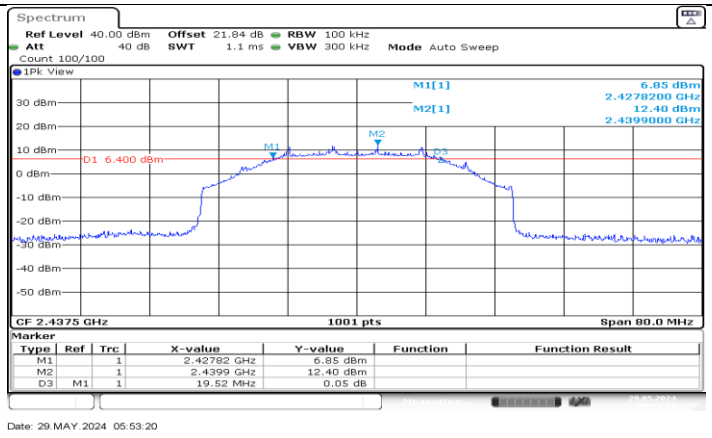
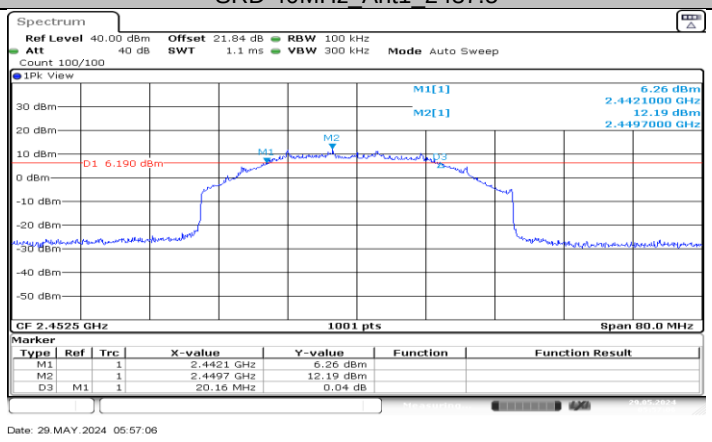
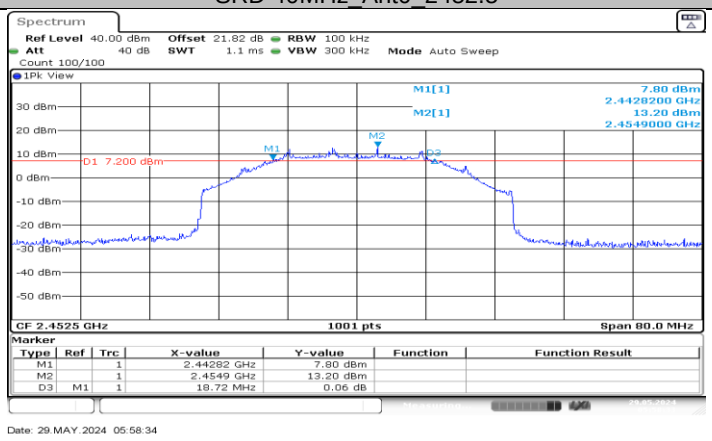


SRD 40MHz_Ant1_2437.5



SRD 40MHz_Ant0_2452.5



SRD 40MHz_Ant1_2452.5