

**CFR 47 FCC PART 15 SUBPART E
ISED RSS-247 Issue 3
AS/NZS 4268:2017 A1**

TEST REPORT

For

C5

MODEL NUMBER: RC231

REPORT NUMBER: 4791144861.2-RF-2

ISSUE DATE: March 4, 2024

FCC ID: SS3-RC2311911

IC: 11805A-RC2311911

Prepared for

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Nanshan District, Shenzhen, China**

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 4, 2024	Initial Issue	

Note: This is a spot check report, the EUT RC231 had already apply for the FCC ID/IC, the new product has changes but RF parameters remain unchanged, about the detail changes please refer to the following changes description. We only performed the Conducted Output Power, Power Spectral Density, Radiated Band edge and Spurious Emission spot check in this report. For more information, please refer to the original report SZEM191202106603.

Changes Description:

Change Type	Before Change	After Change	Note
2.4GHz FEM chip replaced(U136)	QPF4206	KCT8247HE-1	pin-for-pin compatible changes
5.8GHz FEM chip replaced(U137)	QPF4550	KCT8576N	pin-for-pin compatible changes
Replaced C54910	NC201YAGEO (10 pF)	LQP03TG1N0B02 (1.0 nH)	/
Replaced C542	201YAGEO (0.5 pF)	10pF_NC201YAGEO (10 pF)	/
Added: C547; C54911; C54912.	/	GRM0335C1H1R0BA01D (1.0pF)	/

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Conducted Output Power	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	FCC 15.407 (a)	Pass
Power Spectral Density	KDB 789033 D02 v02r01 Section F	FCC 15.407 (a)	Pass
Radiated Emissions And Band Edge Measurement	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	FCC 15.407 (b) FCC 15.209 FCC 15.205	Pass

Note:

1. N/A: In this whole report not applicable.

*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 E, ISED RSS-247 Issue 3 and AS/NZS 4268:2017 A1> when <Simple Acceptance> decision rule is applied.

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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

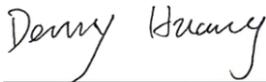
Company Name: SZ DJI TECHNOLOGY CO., LTD.
Address: Lobby of T2, DJI Sky City, No 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China

EUT Information

EUT Name: C5
Model: RC231
Brand: DJI
Sample Received Date: January 11, 2024
Sample ID: 6825254
Date of Tested: January 11, 2024 to February 28, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E ISED RSS-247 Issue 3 AS/NZS 4268:2017 A1	Pass

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART E, ANSI C63.10-2013, CFR 47 FCC Part 2, KDB 789033 D02 v02r01, KDB414788 D01 Radiated Test Site v01, KDB 662911 D01 Multiple Transmitter Output v02r01 and AS/NZS 4268:2017 A1.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>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.</p> <p>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</p> <p>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.</p> <p>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</p>
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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 40 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
	5.37 dB (26 GHz ~ 40 GHz)
Duty Cycle	±0.028%
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.766 dB
Maximum Power Spectral Density Level	±1.22 dB
Frequency Stability	±2.76%
Dynamic Frequency Selection	±1.01 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 Name	C5
Model	RC231
Ratings	Input: DC 5 V, 2 A Battery: DC 3.6 V

Radio Technology	SRD 5.8G
Operation Frequency	5.8GHz 1.4 MHz Bandwidth (5728.5 MHz ~ 5844.5 MHz) 5.8GHz 1.4 MHz Bandwidth (CA Mode) (5730.12 MHz ~ 5846.12 MHz) 5.8GHz 3 MHz Bandwidth (5730.5 MHz ~ 5844.5 MHz) 5.8GHz 10 MHz Bandwidth (5732.5 MHz ~ 5844.5 MHz) 5.8GHz 20 MHz Bandwidth (5735.5 MHz ~ 5839.5 MHz)
Modulation	OFDM (QPSK, 16QAM, 64QAM)

5.2. CHANNEL LIST

5.8G 1.4 MHz Bandwidth (5728.5 MHz ~ 5844.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5728.5	17	5760.5	33	5792.5	49	5824.5
2	5730.5	18	5762.5	34	5794.5	50	5826.5
3	5732.5	19	5764.5	35	5796.5	51	5828.5
4	5734.5	20	5766.5	36	5798.5	52	5830.5
5	5736.5	21	5768.5	37	5800.5	53	5832.5
6	5738.5	22	5770.5	38	5802.5	54	5834.5
7	5740.5	23	5772.5	39	5804.5	55	5836.5
8	5742.5	24	5774.5	40	5806.5	56	5838.5
9	5744.5	25	5776.5	41	5808.5	57	5840.5
10	5746.5	26	5778.5	42	5810.5	58	5842.5
11	5748.5	27	5780.5	43	5812.5	59	5844.5
12	5750.5	28	5782.5	44	5814.5	/	/
13	5752.5	29	5784.5	45	5816.5	/	/
14	5754.5	30	5786.5	46	5818.5	/	/
15	5756.5	31	5788.5	47	5820.5	/	/
16	5758.5	32	5790.5	48	5822.5	/	/

5.8G 1.4 MHz Bandwidth CA Mode (5730.12 MHz ~ 5846.12 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5730.12	17	5762.12	33	5794.12	49	5826.12
2	5732.12	18	5764.12	34	5796.12	50	5828.12
3	5734.12	19	5766.12	35	5798.12	51	5830.12
4	5736.12	20	5768.12	36	5800.12	52	5832.12
5	5738.12	21	5770.12	37	5802.12	53	5834.12
6	5740.12	22	5772.12	38	5804.12	54	5836.12
7	5742.12	23	5774.12	39	5806.12	55	5838.12
8	5744.12	24	5776.12	40	5808.12	56	5840.12
9	5746.12	25	5778.12	41	5810.12	57	5842.12
10	5748.12	26	5780.12	42	5812.12	58	5844.12
11	5750.12	27	5782.12	43	5814.12	59	5846.12
12	5752.12	28	5784.12	44	5816.12	/	/
13	5754.12	29	5786.12	45	5818.12	/	/
14	5756.12	30	5788.12	46	5820.12	/	/
15	5758.12	31	5790.12	47	5822.12	/	/
16	5760.12	32	5792.12	48	5824.12	/	/

5.8G 3 MHz Bandwidth Mode (5730.5 MHz ~ 5844.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5730.5	11	5760.5	21	5790.5	31	5820.5
2	5733.5	12	5763.5	22	5793.5	32	5823.5
3	5736.5	13	5766.5	23	5796.5	33	5826.5
4	5739.5	14	5769.5	24	5799.5	34	5829.5
5	5742.5	15	5772.5	25	5802.5	35	5832.5
6	5745.5	16	5775.5	26	5805.5	36	5835.5
7	5748.5	17	5778.5	27	5808.5	37	5838.5
8	5751.5	18	5781.5	28	5811.5	38	5841.5
9	5754.5	19	5784.5	29	5814.5	39	5844.5
10	5757.5	20	5787.5	30	5817.5	/	/

5.8G 10 MHz Bandwidth (5732.5 MHz ~ 5844.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5732.5	30	5761.5	59	5790.5	88	5819.5
2	5733.5	31	5762.5	60	5791.5	89	5820.5
3	5734.5	32	5763.5	61	5792.5	90	5821.5
4	5735.5	33	5764.5	62	5793.5	91	5822.5
5	5736.5	34	5765.5	63	5794.5	92	5823.5
6	5737.5	35	5766.5	64	5795.5	93	5824.5
7	5738.5	36	5767.5	65	5796.5	94	5825.5
8	5739.5	37	5768.5	66	5797.5	95	5826.5
9	5740.5	38	5769.5	67	5798.5	96	5827.5
10	5741.5	39	5770.5	68	5799.5	97	5828.5
11	5742.5	40	5771.5	69	5800.5	98	5829.5
12	5743.5	41	5772.5	70	5801.5	99	5830.5
13	5744.5	42	5773.5	71	5802.5	100	5831.5
14	5745.5	43	5774.5	72	5803.5	101	5832.5
15	5746.5	44	5775.5	73	5804.5	102	5833.5
16	5747.5	45	5776.5	74	5805.5	103	5834.5
17	5748.5	46	5777.5	75	5806.5	104	5835.5
18	5749.5	47	5778.5	76	5807.5	105	5836.5
19	5750.5	48	5779.5	77	5808.5	106	5837.5
20	5751.5	49	5780.5	78	5809.5	107	5838.5
21	5752.5	50	5781.5	79	5810.5	108	5839.5
22	5753.5	51	5782.5	80	5811.5	109	5840.5
23	5754.5	52	5783.5	81	5812.5	110	5841.5
24	5755.5	53	5784.5	82	5813.5	111	5842.5
25	5756.5	54	5785.5	83	5814.5	112	5843.5
26	5757.5	55	5786.5	84	5815.5	113	5844.5
27	5758.5	56	5787.5	85	5816.5	/	/
28	5759.5	57	5788.5	86	5817.5	/	/
29	5760.5	58	5789.5	87	5818.5	/	/

5.8G 20 MHz Bandwidth (5735.5 MHz ~ 5839.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5735.5	28	5762.5	55	5789.5	82	5816.5
2	5736.5	29	5763.5	56	5790.5	83	5817.5
3	5737.5	30	5764.5	57	5791.5	84	5818.5
4	5738.5	31	5765.5	58	5792.5	85	5819.5
5	5739.5	32	5766.5	59	5793.5	86	5820.5
6	5740.5	33	5767.5	60	5794.5	87	5821.5
7	5741.5	34	5768.5	61	5795.5	88	5822.5
8	5742.5	35	5769.5	62	5796.5	89	5823.5
9	5743.5	36	5770.5	63	5797.5	90	5824.5
10	5744.5	37	5771.5	64	5798.5	91	5825.5
11	5745.5	38	5772.5	65	5799.5	92	5826.5
12	5746.5	39	5773.5	66	5800.5	93	5827.5
13	5747.5	40	5774.5	67	5801.5	94	5828.5
14	5748.5	41	5775.5	68	5802.5	95	5829.5
15	5749.5	42	5776.5	69	5803.5	96	5830.5
16	5750.5	43	5777.5	70	5804.5	97	5831.5
17	5751.5	44	5778.5	71	5805.5	98	5832.5
18	5752.5	45	5779.5	72	5806.5	99	5833.5
19	5753.5	46	5780.5	73	5807.5	100	5834.5
20	5754.5	47	5781.5	74	5808.5	101	5835.5
21	5755.5	48	5782.5	75	5809.5	102	5836.5
22	5756.5	49	5783.5	76	5810.5	103	5837.5
23	5757.5	50	5784.5	77	5811.5	104	5838.5
24	5758.5	51	5785.5	78	5812.5	105	5839.5
25	5759.5	52	5786.5	79	5813.5	/	/
26	5760.5	53	5787.5	80	5814.5	/	/
27	5761.5	54	5788.5	81	5815.5	/	/

5.3. MAXIMUM OUTPUT POWER

SRD 5G	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)
1.4 MHz Mode	5728.5 MHz ~ 5844.5 MHz	21.32
1.4 MHz CA Mode	5730.12 MHz ~ 5846.12 MHz	21.86
3 MHz Mode	5730.5 MHz ~ 5844.5 MHz	21.61
10 MHz Mode	5732.5 MHz ~ 5844.5 MHz	11.75
20 MHz Mode	5735.5 MHz ~ 5839.5 MHz	11.81

5.4. TEST CHANNEL CONFIGURATION

SRD 5.8G	Test Channel Number	Frequency
1.4 MHz Mode	CH 1(Low Channel), CH 30(MID Channel), CH 60(High Channel)	5728.5 MHz, 5786.5 MHz, 5844.5 MHz
1.4 MHz CA Mode	CH 1(Low Channel), CH 30(MID Channel), CH 60(High Channel)	5730.12 MHz, 5788.12 MHz, 5846.12 MHz
3 MHz Mode	CH 1(Low Channel), CH 20(MID Channel), CH 40(High Channel)	5730.5 MHz, 5787.5 MHz, 5844.5 MHz
10 MHz Mode	CH 1(Low Channel), CH 58(MID Channel), CH 115(High Channel)	5732.5 MHz, 5787.5 MHz, 5844.5 MHz
20 MHz Mode	CH 1(Low Channel), CH 53(MID Channel), CH 105(High Channel)	5735.5 MHz, 5787.5 MHz, 5839.5 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 5728.5 ~ 5846.12 MHz Band				
Test Software		SdrConsole		
Mode	Transmit Antenna Number	Test Software setting value		
		NCB: 1.4 MHz/1.4 MHz CA/3 MHz/10 MHz/20 MHz		
		Low Channel	MID Channel	High Channel
1.4 MHz Mode	1	Default	Default	Default
1.4 MHz Mode CA	1	Default	Default	Default
3 MHz Mode	1	Default	Default	Default
10 MHz Mode	1	Default	Default	Default
20 MHz Mode	1	Default	Default	Default

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	5728.5 ~ 5846.12	Integral Antenna	4

Test Mode	Transmit and Receive Mode	Description
1.4 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
1.4 MHz CA Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
3 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
10 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
20 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.

Note: 1. The value of the antenna gain was declared by customer.
2. 2.4GHz and 5.8GHz radio doesn't support simultaneous transmission.

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 5.8G-1.4 MHz Mode/QPSK
- SRD 5.8G-1.4 MHz CA Mode/QPSK
- SRD 5.8G-3 MHz Mode/QPSK
- SRD 5.8G-10 MHz Mode/QPSK
- SRD 5.8G-20 MHz Mode/QPSK

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

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	/
2	Adapter Power	/	QC18-EU	Input: AC 100 ~ 240V, 50/60 Hz, 0.5 A Output: DC 5 V, 3 A, 9 V, 3 A, 12 V, 1.5 A

I/O CABLES

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

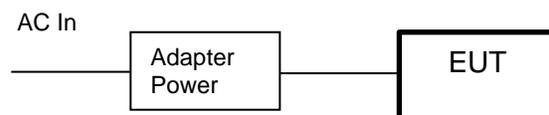
ACCESSORIES

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.31,2023	Mar.30,2024
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	April 18, 2023	April 17, 2024
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		V3.2.22	

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Oct.13, 2023	Oct.12, 2024
Two-Line V-Network	R&S	ENV216	101983	Oct.13, 2023	Oct.12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.13, 2023	Oct.12, 2024
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
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	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
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
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	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. ON TIME AND DUTY CYCLE

LIMITS

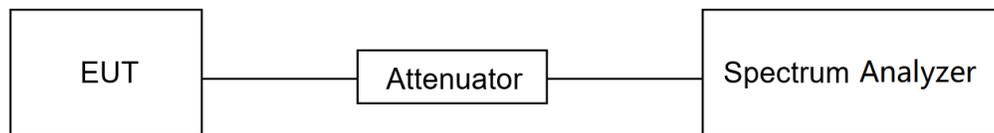
None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq EBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5 °C	Relative Humidity	56%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.6 V

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	<input type="checkbox"/> Outdoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Indoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Fixed Point-To-Point Access Points: 1 W (30 dBm) <input type="checkbox"/> Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

ISED RSS-247 ISSUE 2		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power or e.i.r.p.	The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.	5150 ~ 5250
	Shall not exceed 1 Watt (30 dBm). The e.i.r.p. shall not exceed 4 W	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-2 (trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.):

- (a) Measure the duty cycle D of the transmitter output signal.
- (b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- (c) Set RBW = 1 MHz.
- (d) Set VBW \geq 3 MHz.
- (e) Number of points in sweep \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- (f) Sweep time = auto.
- (g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (h) Do not use sweep triggering. Allow the sweep to "free run."
- (i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- (j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

k) Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1 / 0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.

Method PM (Measurement using an RF average power meter):

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

- a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

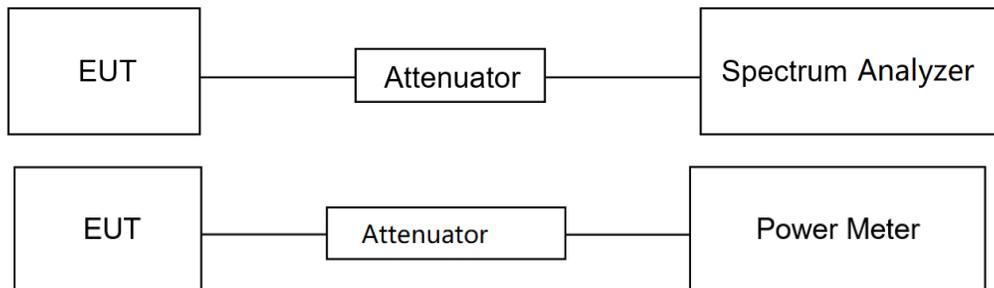
(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25 %).

Note: Method SA-2 was used for straddle channel output power test, and Method PM was used for testing rest channels

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5 °C	Relative Humidity	56%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.6 V

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	<input type="checkbox"/> Outdoor Access Point: 17 dBm/MHz <input type="checkbox"/> Indoor Access Point: 17 dBm/MHz <input type="checkbox"/> Fixed Point-To-Point Access Points: 17 dBm/MHz <input type="checkbox"/> Client Devices: 11 dBm/MHz	5150 ~ 5250
	30 dBm/500kHz	5725 ~ 5850

ISED RSS-247 ISSUE 2		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.	5150 ~ 5250
	30 dBm / 500 kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

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

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

For U-NII-3:

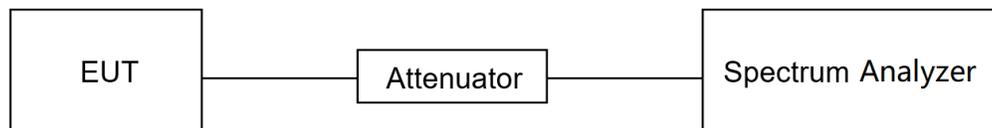
Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$

Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5 °C	Relative Humidity	56%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.6 V

TEST RESULTS

Please refer to section "Test Data" - Appendix B

8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 6.2.

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

ISED General field strength limits at frequencies below 30 MHz

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

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

ISED Restricted bands refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	369.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.80475 - 16.80525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5480	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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.

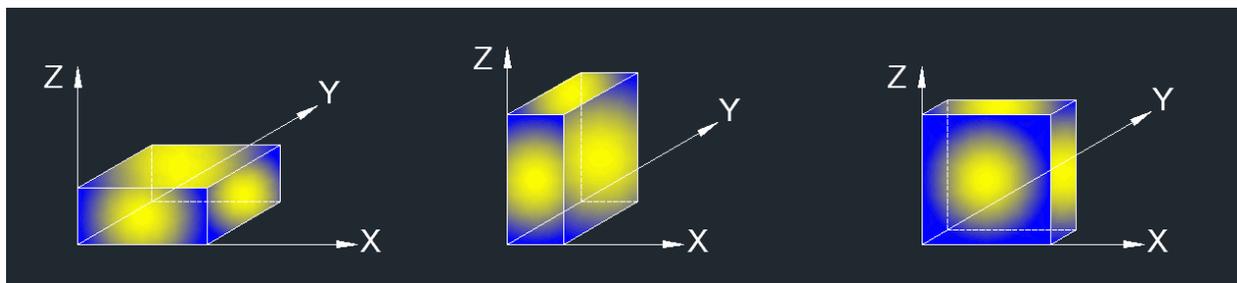
Above 1 GHz

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 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.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 7.1. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

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 7.1.
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. $\text{dBuA/m} = \text{dBuV/m} - 20\text{Log}_{10}[120\pi] = \text{dBuV/m} - 51.5$

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 ~ 7 GHz):

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 7.1.
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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (7 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: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

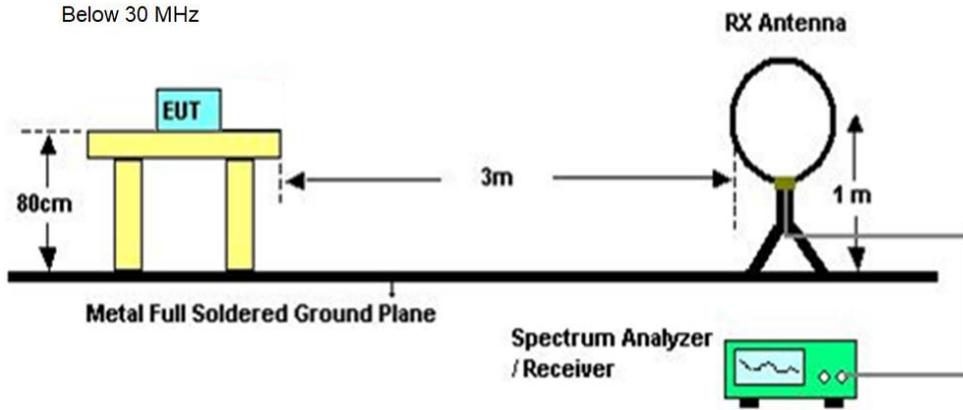
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (26 GHz ~ 40 GHz):

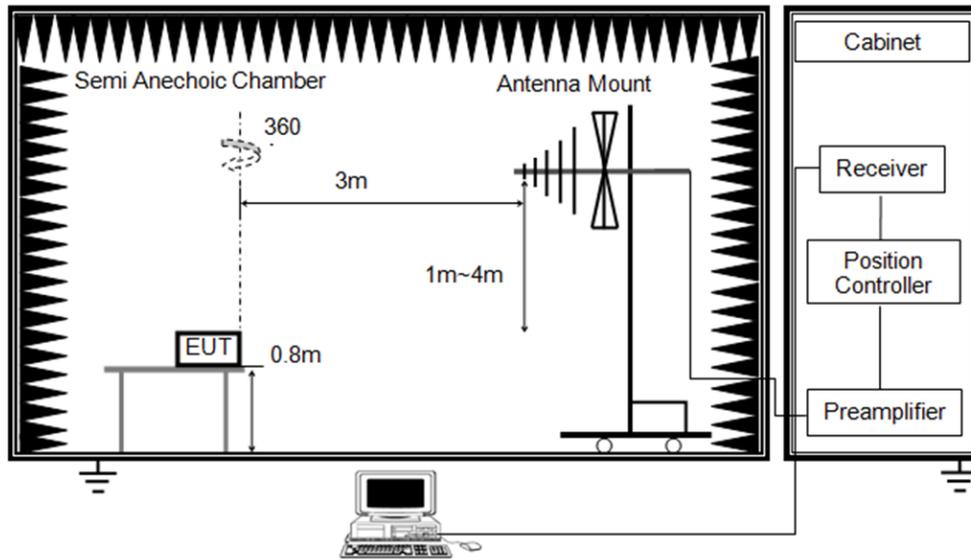
Note:

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.

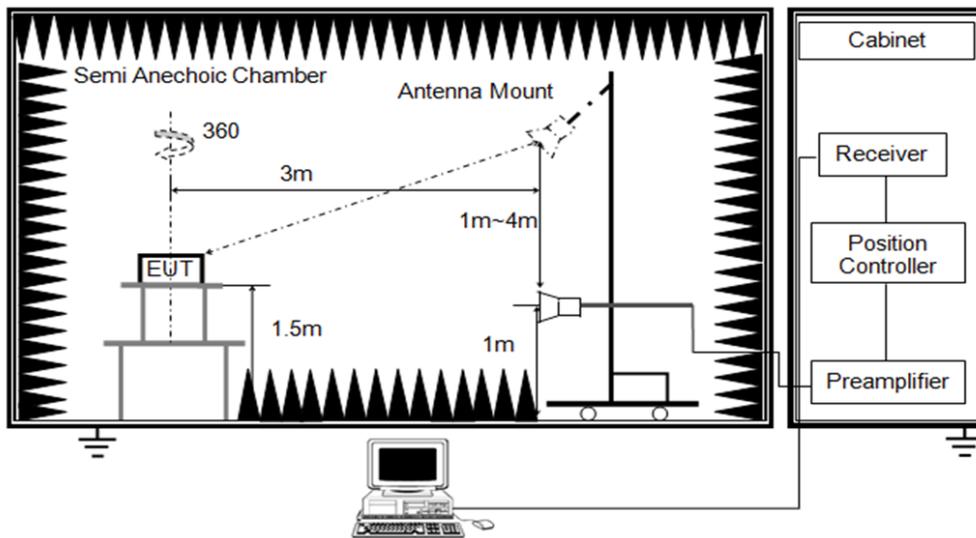
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



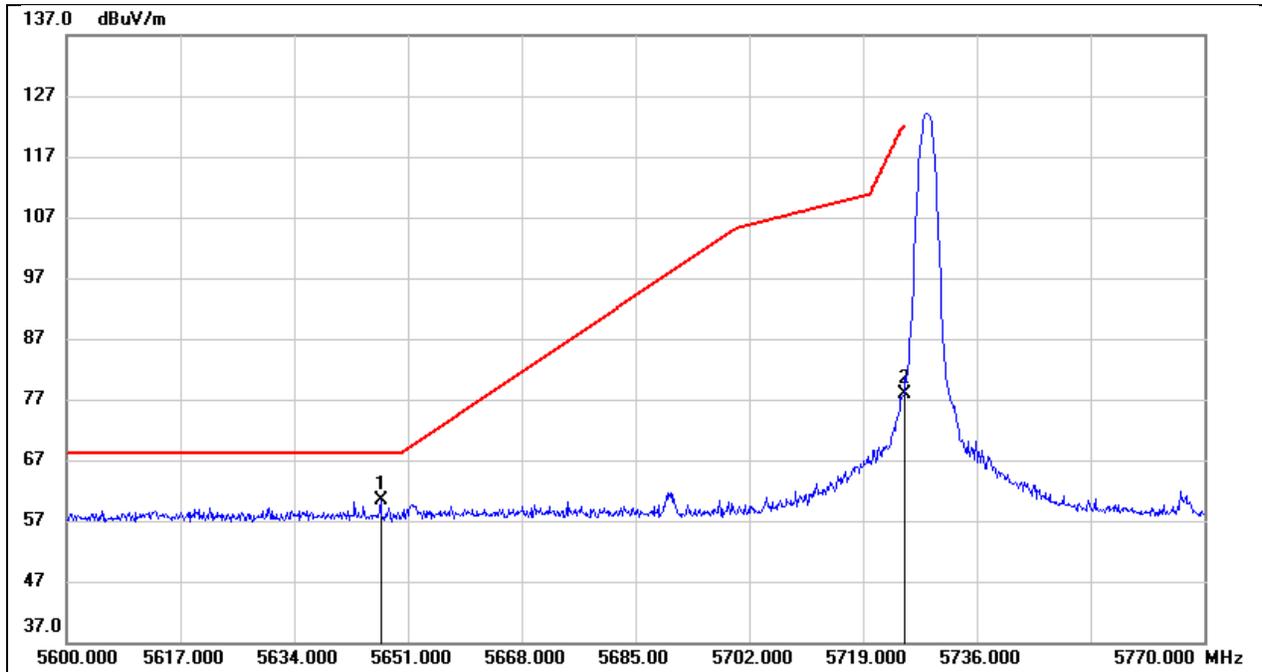
TEST ENVIRONMENT

Temperature	24.7 °C	Relative Humidity	59%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.6 V

TEST RESULTS

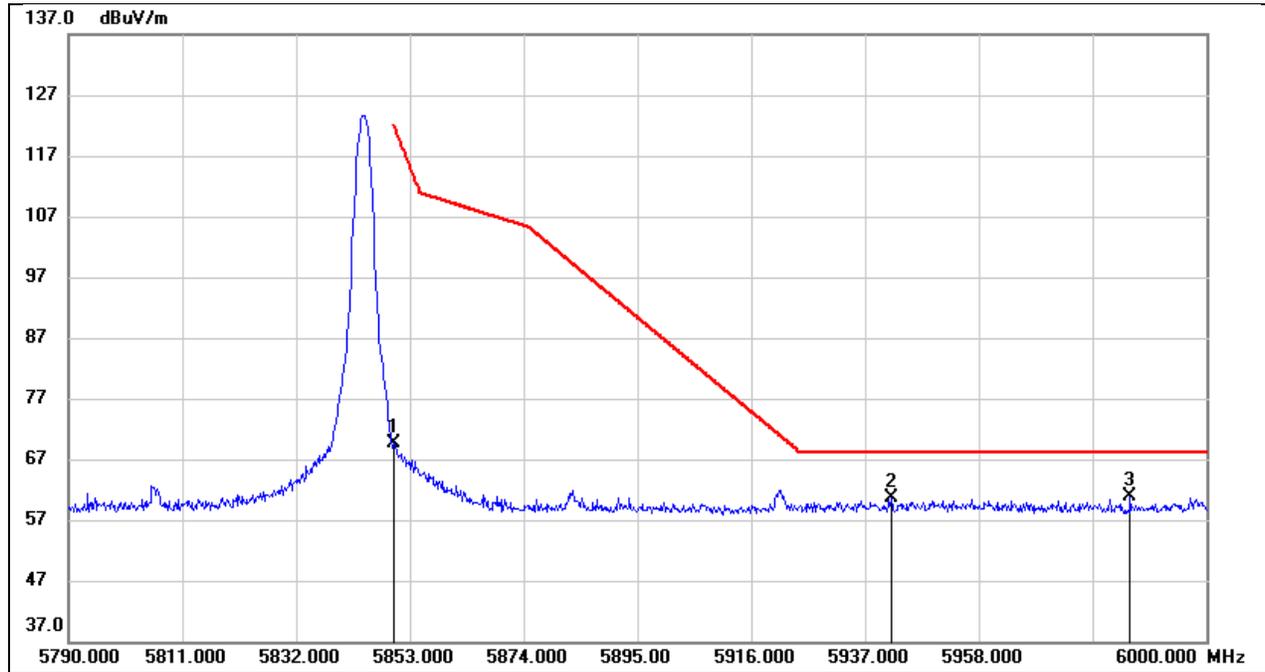
8.1. RESTRICTED BANDEDGE

Test Mode:	SRD 1.4MHz PK	Frequency(MHz):	5728.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



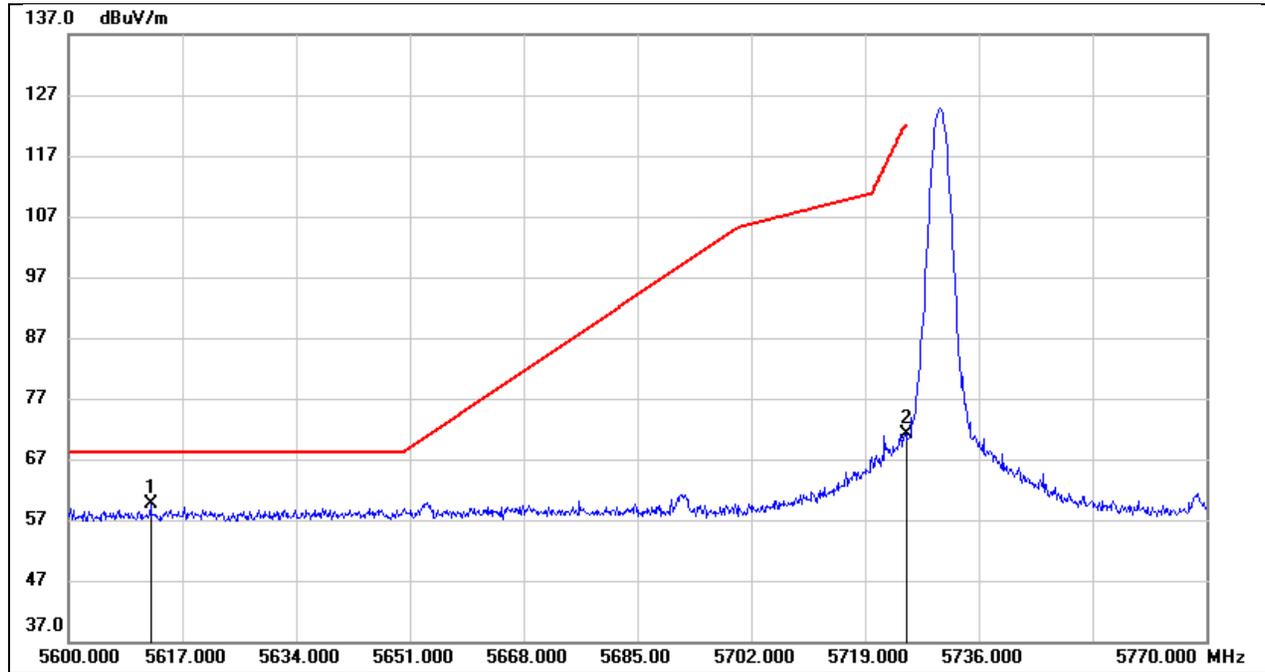
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5646.920	19.20	41.06	60.26	68.20	-7.94	peak
2	5725.000	36.65	41.27	77.92	122.20	-44.28	peak

Test Mode:	SRD 1.4MHz PK	Frequency(MHz):	5844.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



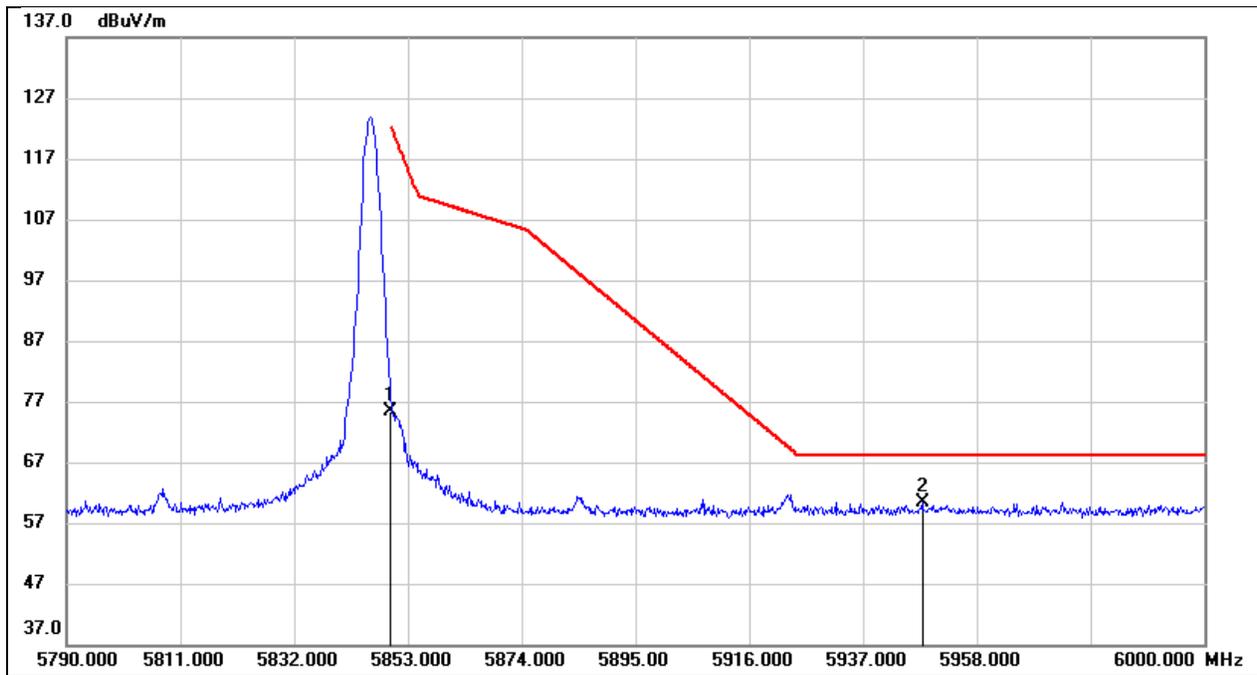
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	27.97	41.60	69.57	122.20	-52.63	peak
2	5941.830	18.75	41.84	60.59	68.20	-7.61	peak
3	5985.930	18.96	41.97	60.93	68.20	-7.27	peak

Test Mode:	SRD 1.4MHz CA PK	Frequency(MHz):	5730.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



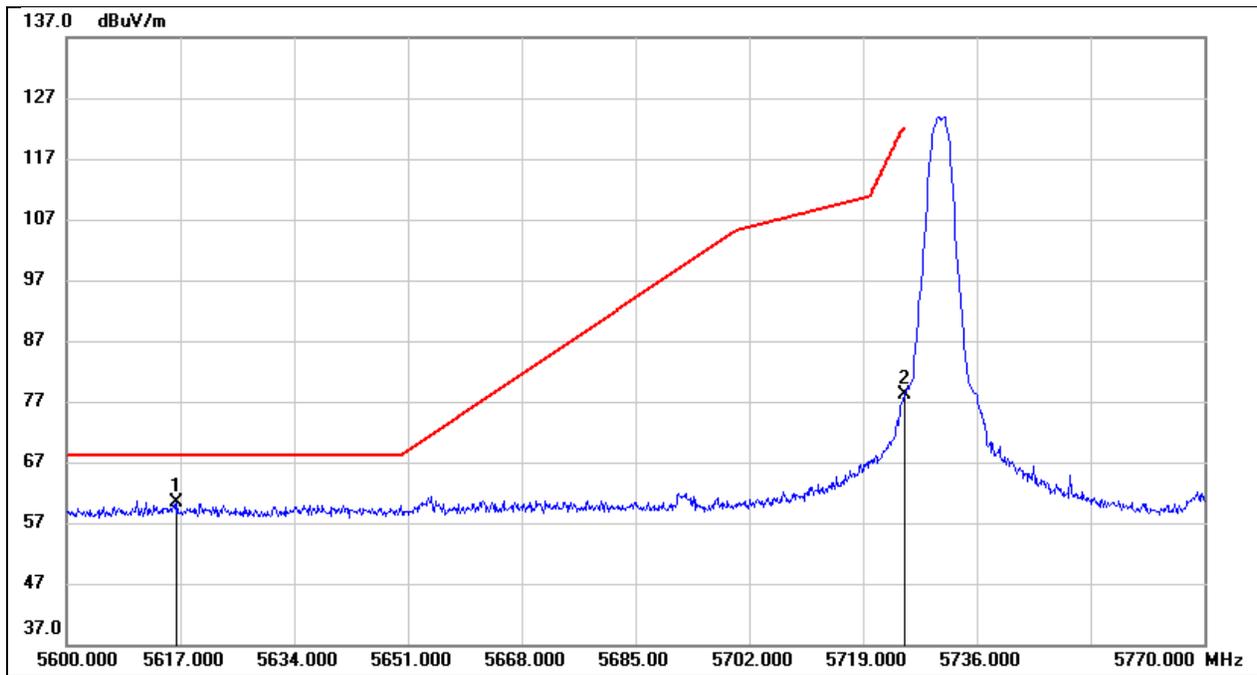
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5612.240	18.65	40.96	59.61	68.20	-8.59	peak
2	5725.000	29.97	41.27	71.24	122.20	-50.96	peak

Test Mode:	SRD 1.4MHz CA PK	Frequency(MHz):	5846.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



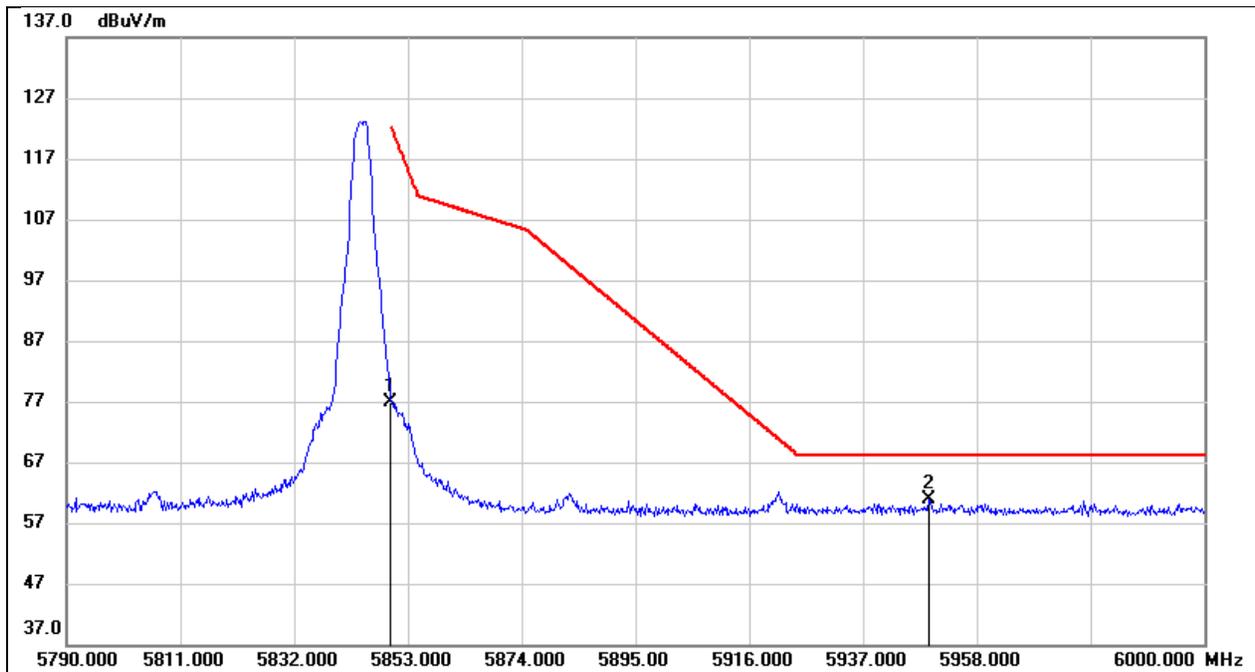
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	33.85	41.60	75.45	122.20	-46.75	peak
2	5947.920	18.59	41.86	60.45	68.20	-7.75	peak

Test Mode:	SRD 3MHz PK	Frequency(MHz):	5730.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



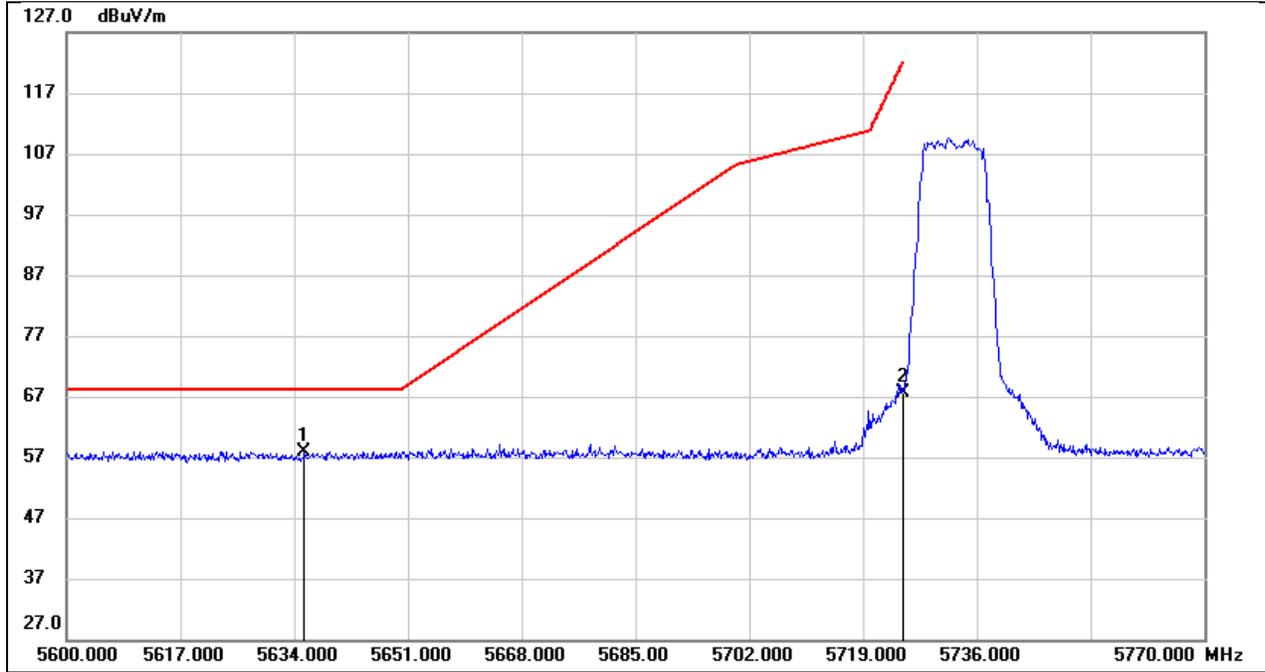
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.490	19.47	40.98	60.45	68.20	-7.75	peak
2	5725.000	36.85	41.27	78.12	122.20	-44.08	peak

Test Mode:	SRD 3MHz PK	Frequency(MHz):	5844.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



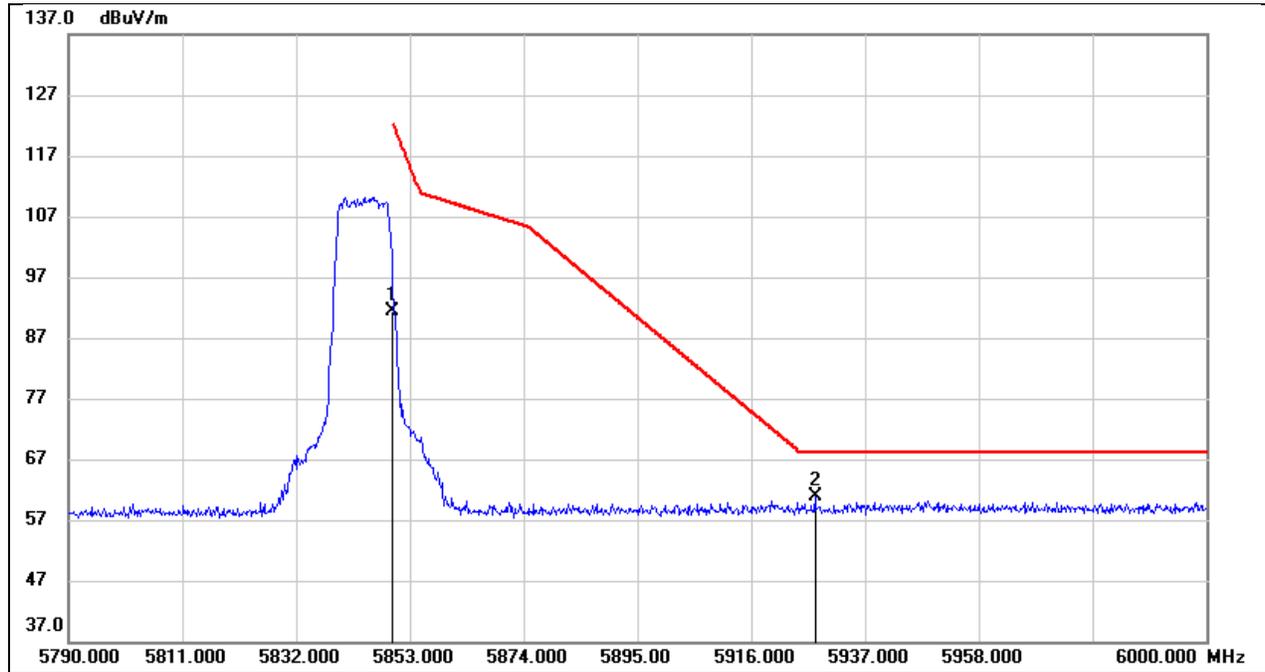
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	35.36	41.60	76.96	122.20	-45.24	peak
2	5949.180	19.07	41.86	60.93	68.20	-7.27	peak

Test Mode:	SRD 10MHz PK	Frequency(MHz):	5732.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



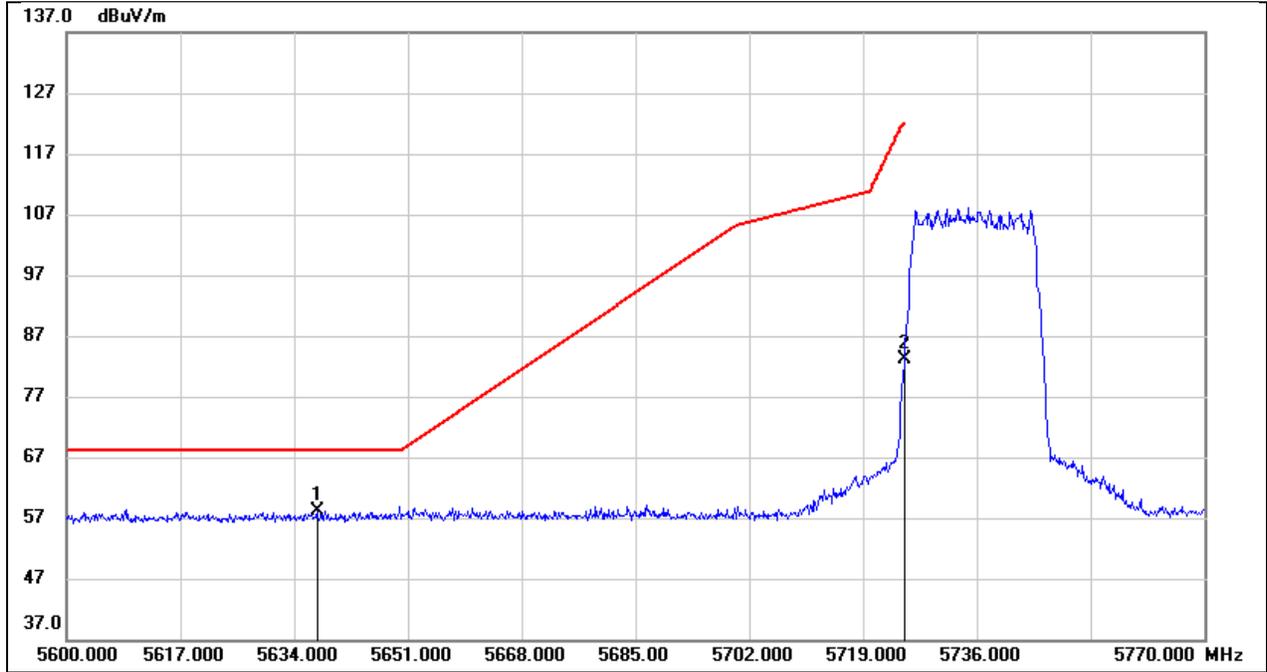
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5635.530	16.89	41.03	57.92	68.20	-10.28	peak
2	5725.000	26.48	41.27	67.75	122.20	-54.45	peak

Test Mode:	SRD 10MHz PK	Frequency(MHz):	5844.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



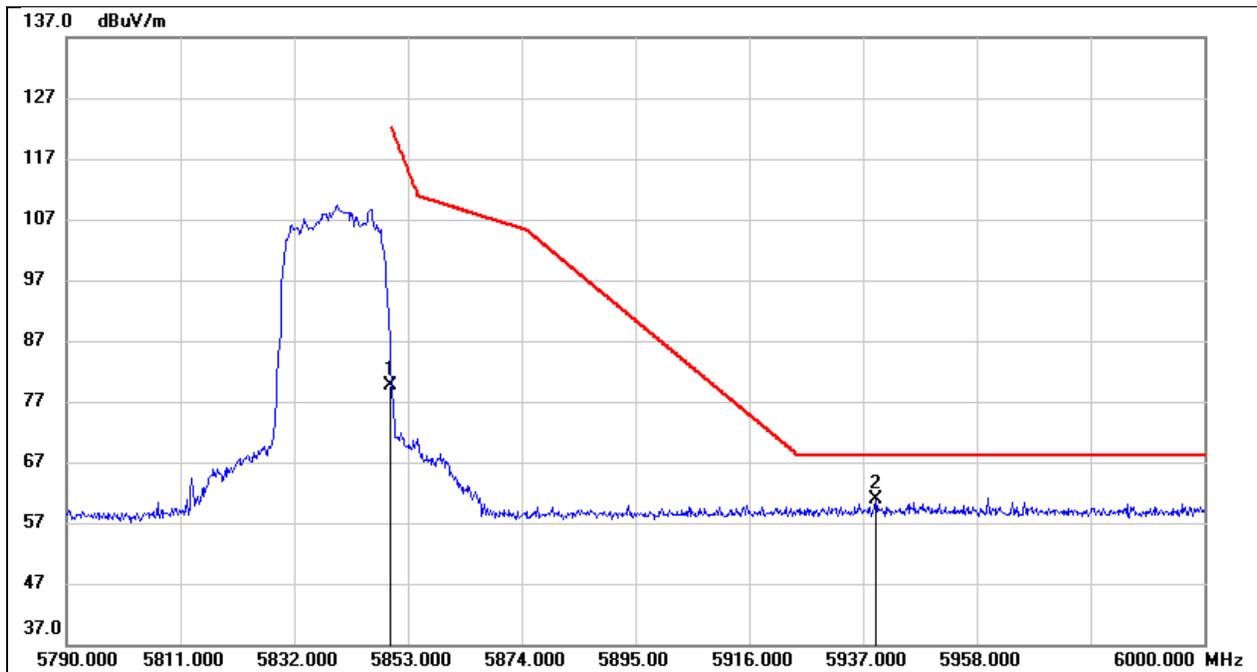
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	49.71	41.60	91.31	122.20	-30.89	peak
2	5927.760	19.12	41.81	60.93	68.20	-7.27	peak

Test Mode:	SRD 20MHz PK	Frequency(MHz):	5735.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5637.400	17.10	41.03	58.13	68.20	-10.07	peak
2	5725.000	41.81	41.27	83.08	122.20	-39.12	peak

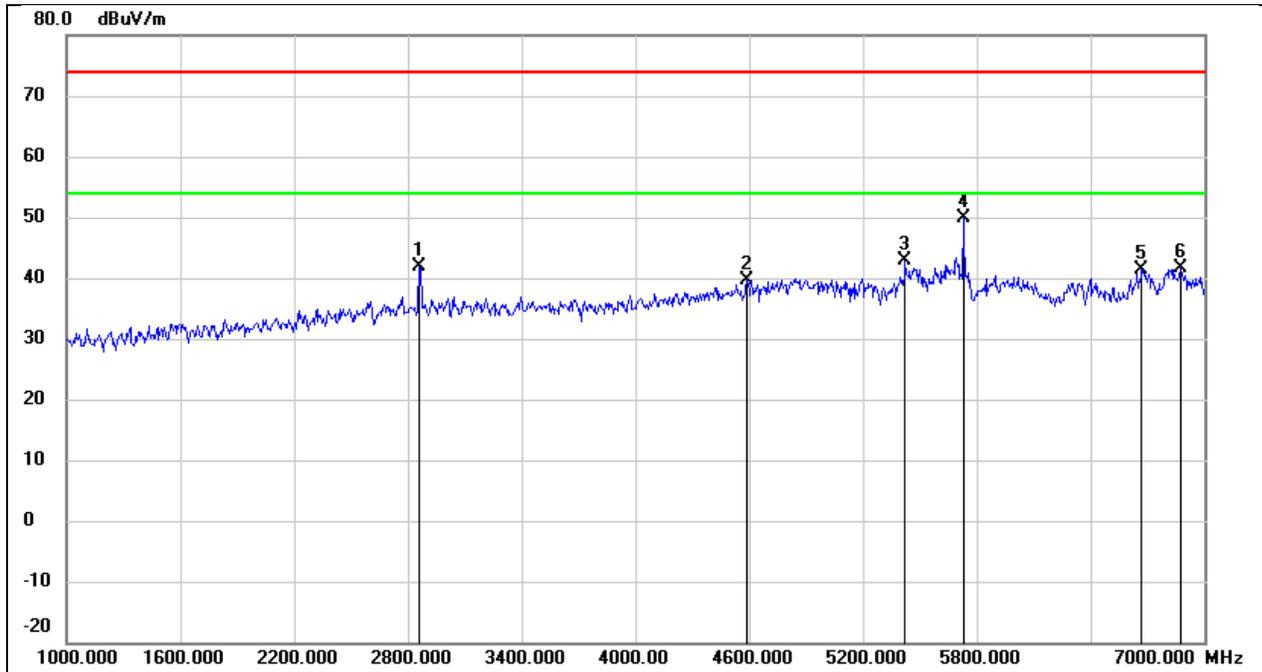
Test Mode:	SRD 20MHz PK	Frequency(MHz):	5839.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	37.93	41.60	79.53	122.20	-42.67	peak
2	5939.310	18.99	41.84	60.83	68.20	-7.37	peak

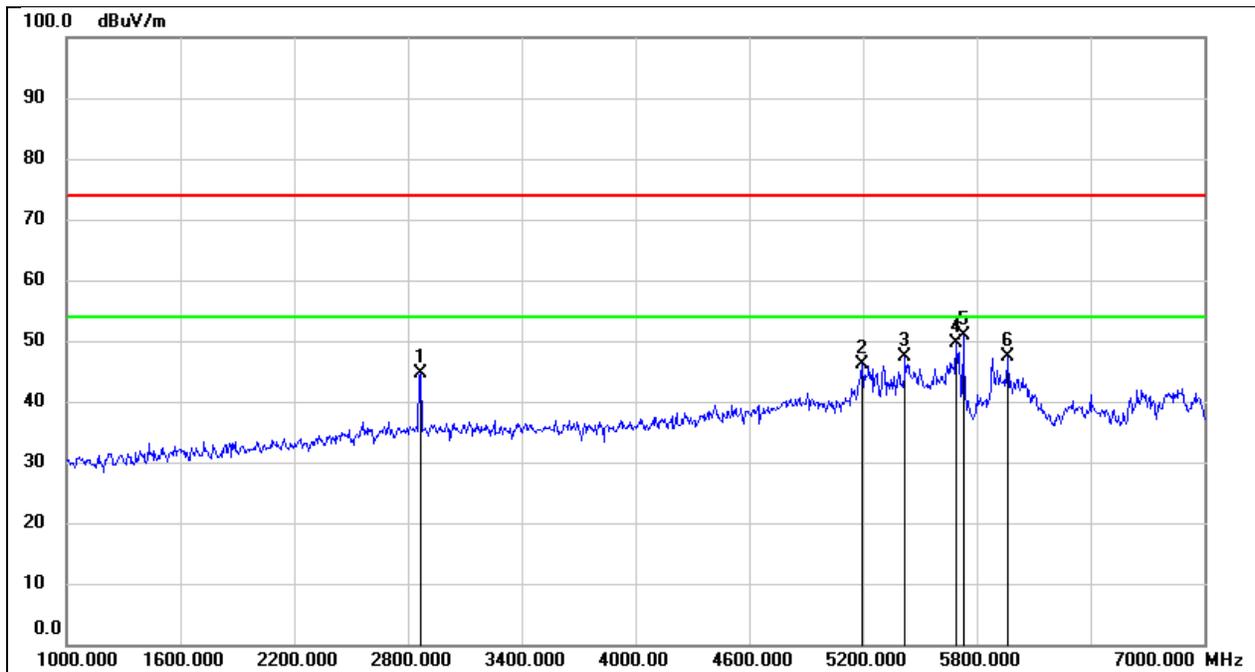
8.2. SPURIOUS EMISSIONS (1 GHZ ~ 7 GHZ)

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



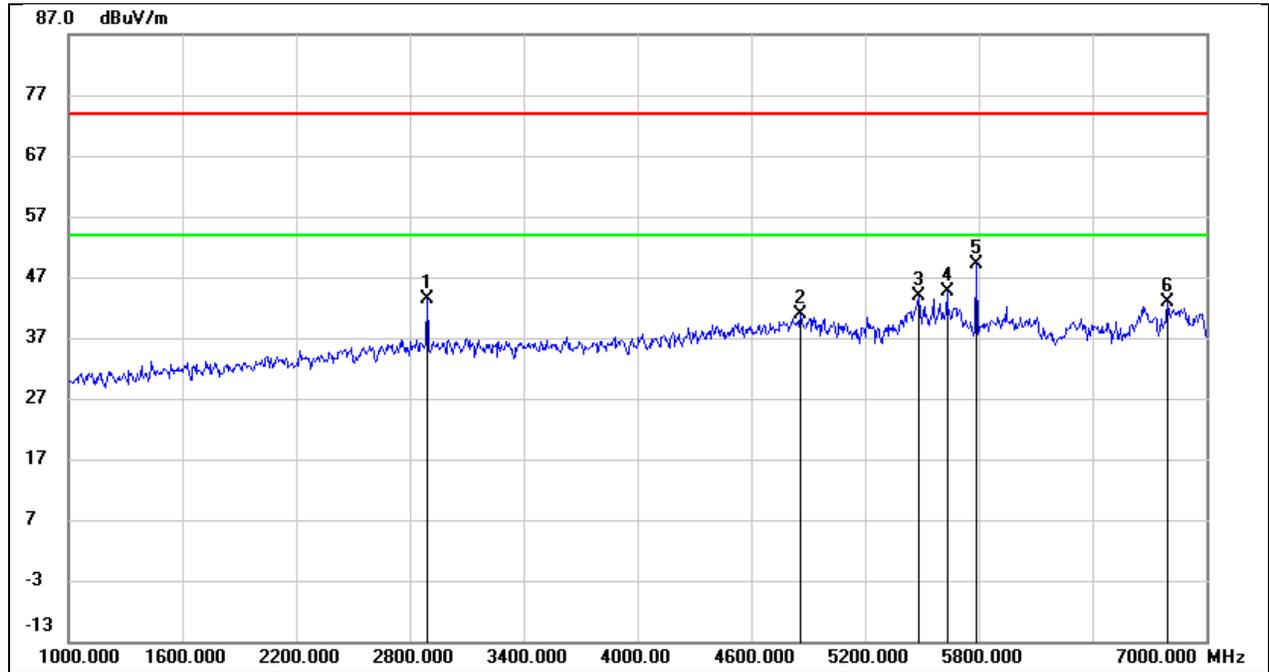
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2860.000	48.61	-6.68	41.93	74.00	-32.07	peak
2	4588.000	41.44	-1.79	39.65	74.00	-34.35	peak
3	5422.000	42.67	0.32	42.99	74.00	-31.01	peak
4	5730.120	48.91	1.07	49.98	/	/	Fundamental
5	6670.000	36.79	4.57	41.36	74.00	-32.64	peak
6	6874.000	35.95	5.57	41.52	74.00	-32.48	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



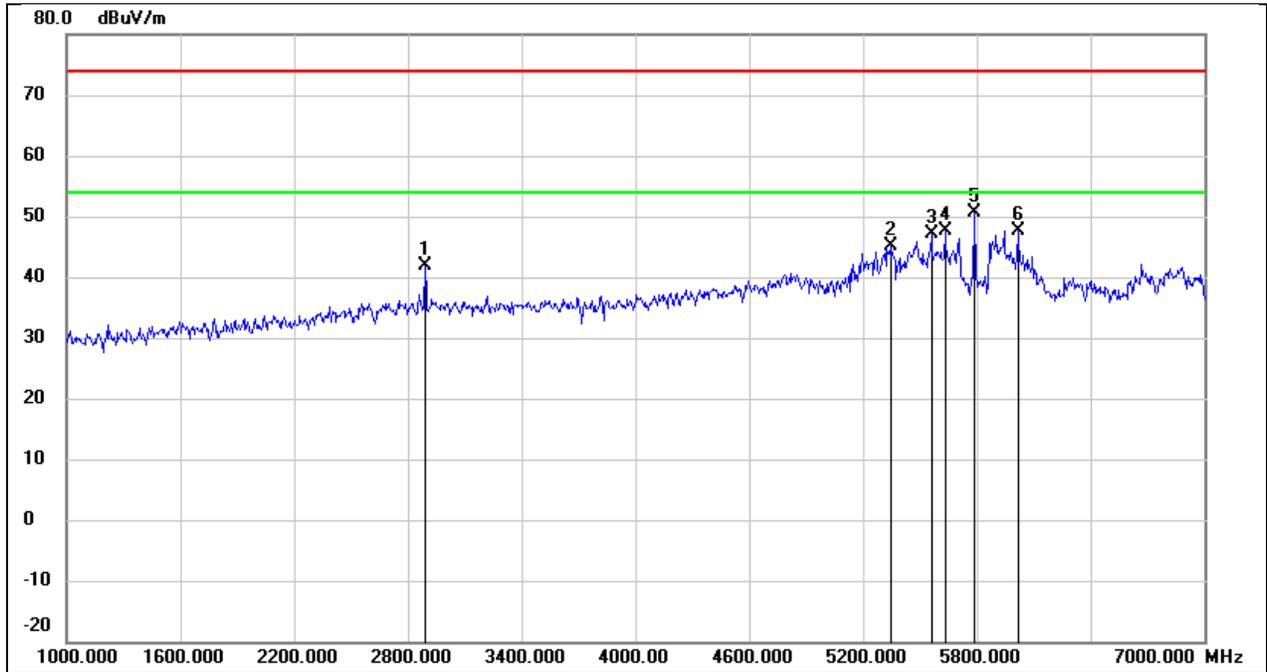
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2866.000	51.27	-6.65	44.62	74.00	-29.38	peak
2	5194.000	46.15	0.07	46.22	74.00	-27.78	peak
3	5422.000	47.00	0.32	47.32	74.00	-26.68	peak
4	5692.000	48.71	0.97	49.68	74.00	-24.32	peak
5	5730.120	49.77	1.07	50.84	/	/	Fundamental
6	5962.000	45.60	1.74	47.34	74.00	-26.66	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5788.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



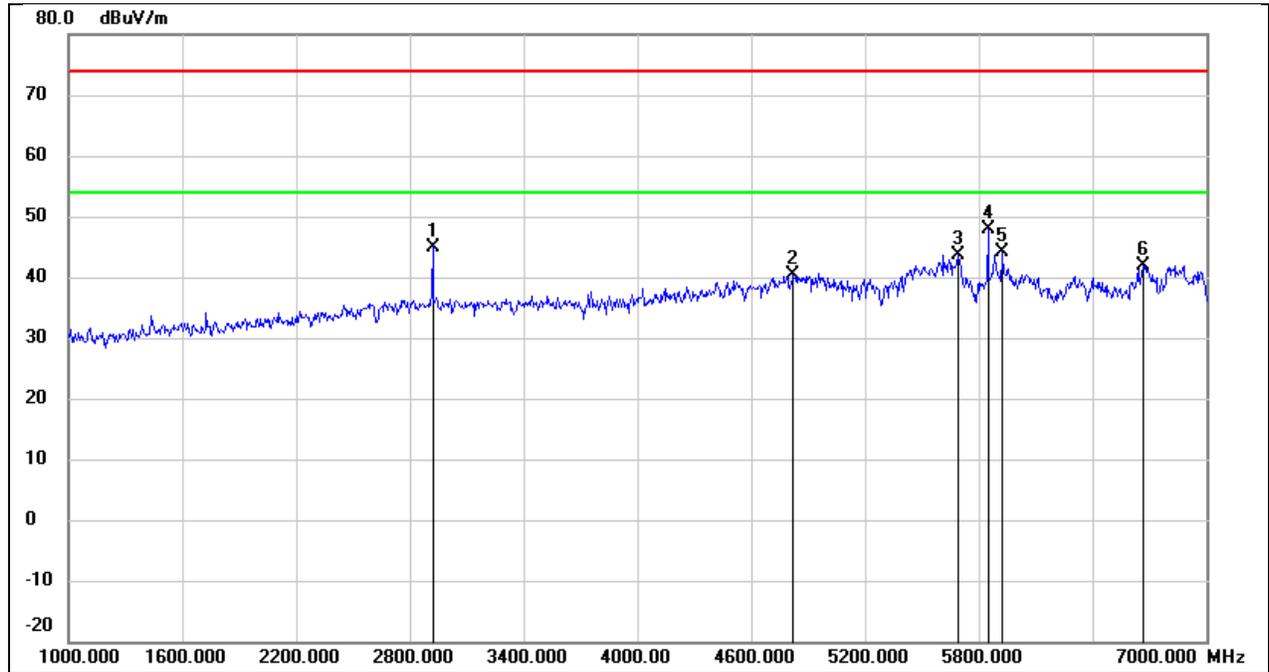
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2890.000	49.96	-6.54	43.42	74.00	-30.58	peak
2	4858.000	41.49	-0.72	40.77	74.00	-33.23	peak
3	5482.000	43.41	0.40	43.81	74.00	-30.19	peak
4	5632.000	43.74	0.79	44.53	74.00	-29.47	peak
5	5788.120	47.90	1.25	49.15	/	/	Fundamental
6	6796.000	37.57	5.19	42.76	74.00	-31.24	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5788.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



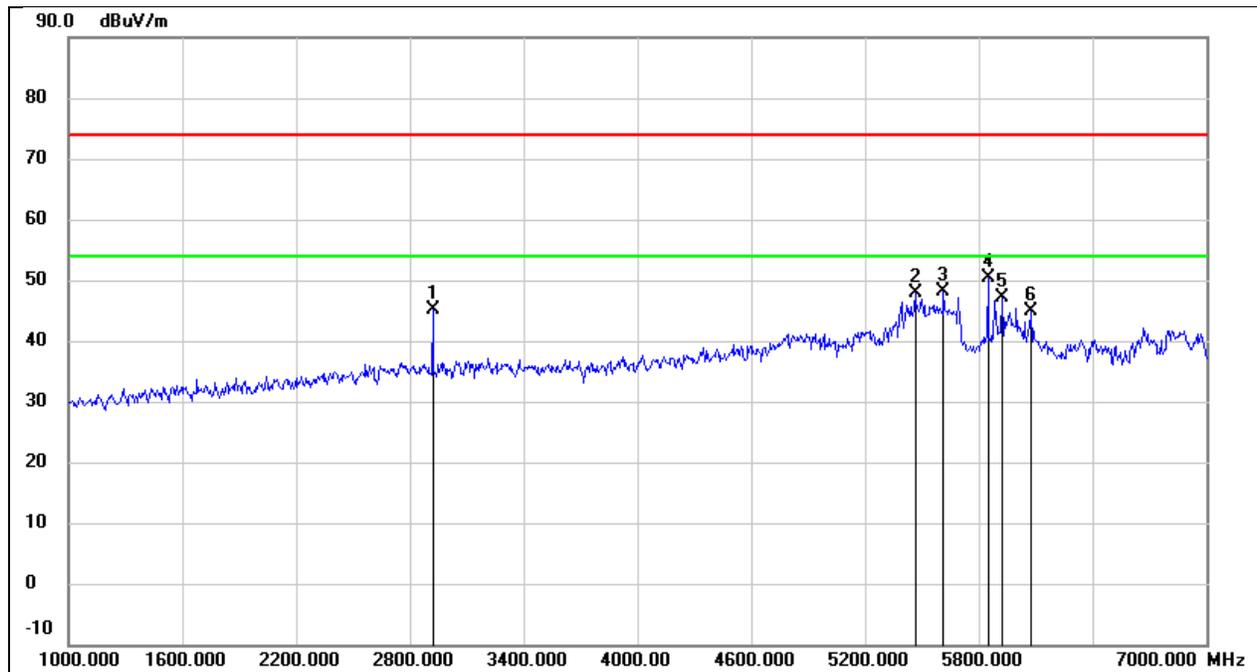
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2890.000	48.42	-6.54	41.88	74.00	-32.12	peak
2	5344.000	44.83	0.24	45.07	74.00	-28.93	peak
3	5560.000	46.59	0.60	47.19	74.00	-26.81	peak
4	5632.000	46.80	0.79	47.59	74.00	-26.41	peak
5	5788.120	49.32	1.25	50.57	/	/	Fundamental
6	6016.000	45.73	1.91	47.64	74.00	-26.36	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5846.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2920.000	51.38	-6.38	45.00	74.00	-29.00	peak
2	4822.000	41.20	-0.85	40.35	74.00	-33.65	peak
3	5692.000	42.63	0.97	43.60	74.00	-30.40	peak
4	5846.120	46.50	1.41	47.91	/	/	Fundamental
5	5926.000	42.38	1.64	44.02	74.00	-29.98	peak
6	6670.000	37.38	4.57	41.95	74.00	-32.05	peak

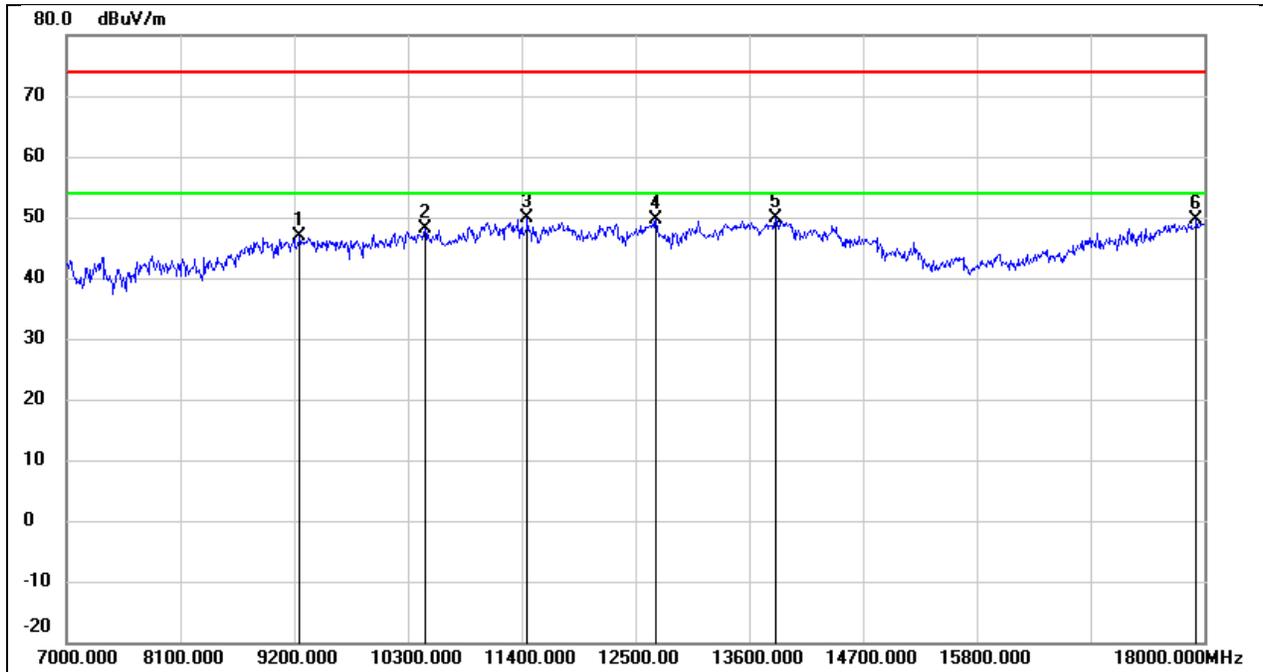
Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5846.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2920.000	51.51	-6.38	45.13	74.00	-28.87	peak
2	5464.000	47.56	0.38	47.94	74.00	-26.06	peak
3	5614.000	47.41	0.74	48.15	74.00	-25.85	peak
4	5846.120	49.09	1.41	50.50	/	/	Fundamental
5	5926.000	45.47	1.64	47.11	74.00	-26.89	peak
6	6076.000	42.74	2.14	44.88	74.00	-29.12	peak

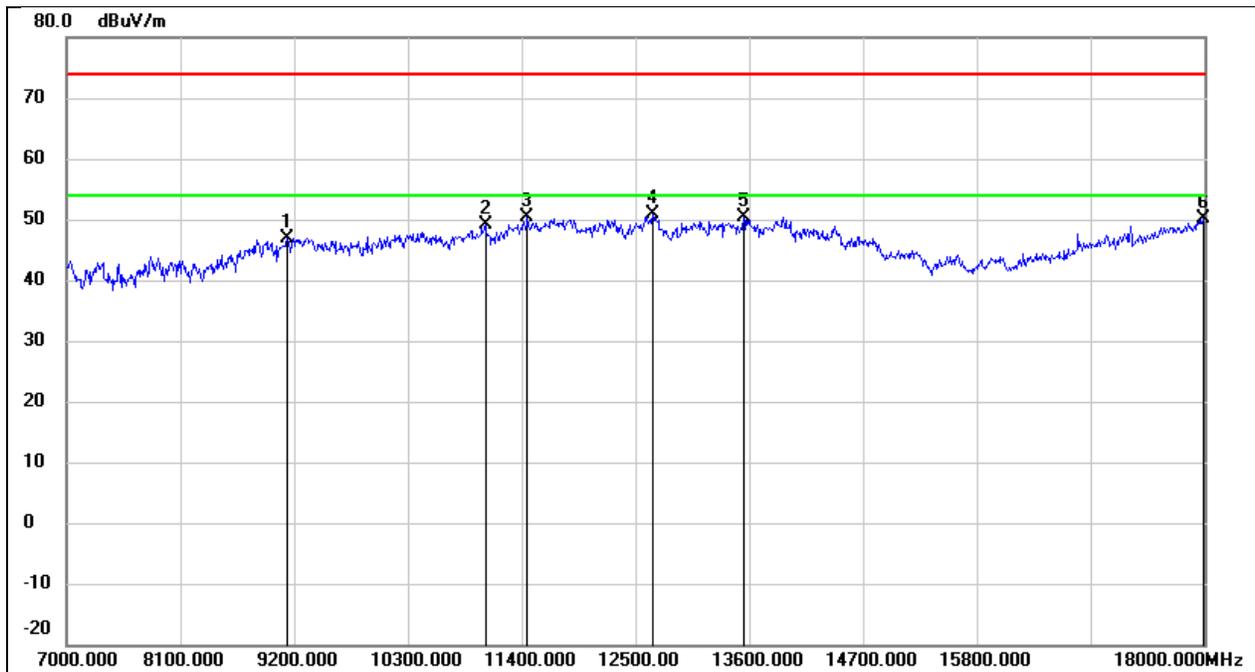
8.3. SPURIOUS EMISSIONS (7 GHZ ~ 18 GHZ)

Test Mode:	SRD 1.4MHz	Frequency(MHz):	5728.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



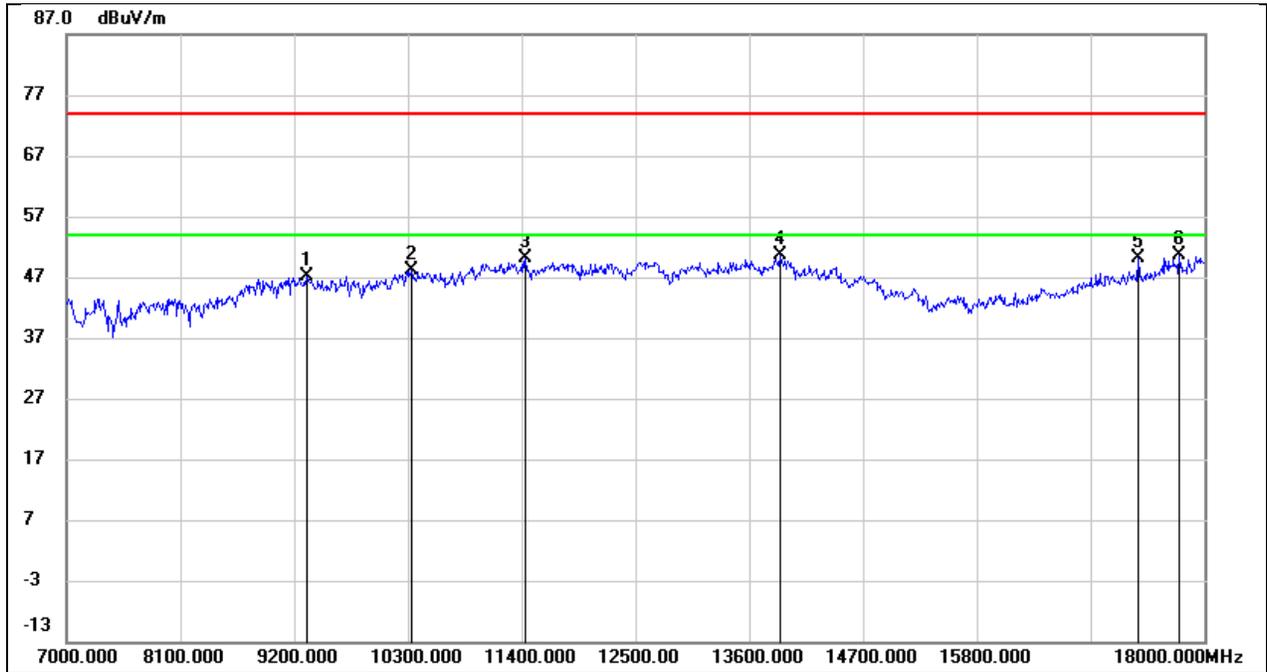
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	36.33	10.51	46.84	74.00	-27.16	peak
2	10465.000	35.38	12.75	48.13	74.00	-25.87	peak
3	11455.000	33.36	16.58	49.94	74.00	-24.06	peak
4	12698.000	31.54	18.08	49.62	74.00	-24.38	peak
5	13853.000	28.37	21.52	49.89	74.00	-24.11	peak
6	17923.000	24.14	25.60	49.74	74.00	-24.26	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	5728.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



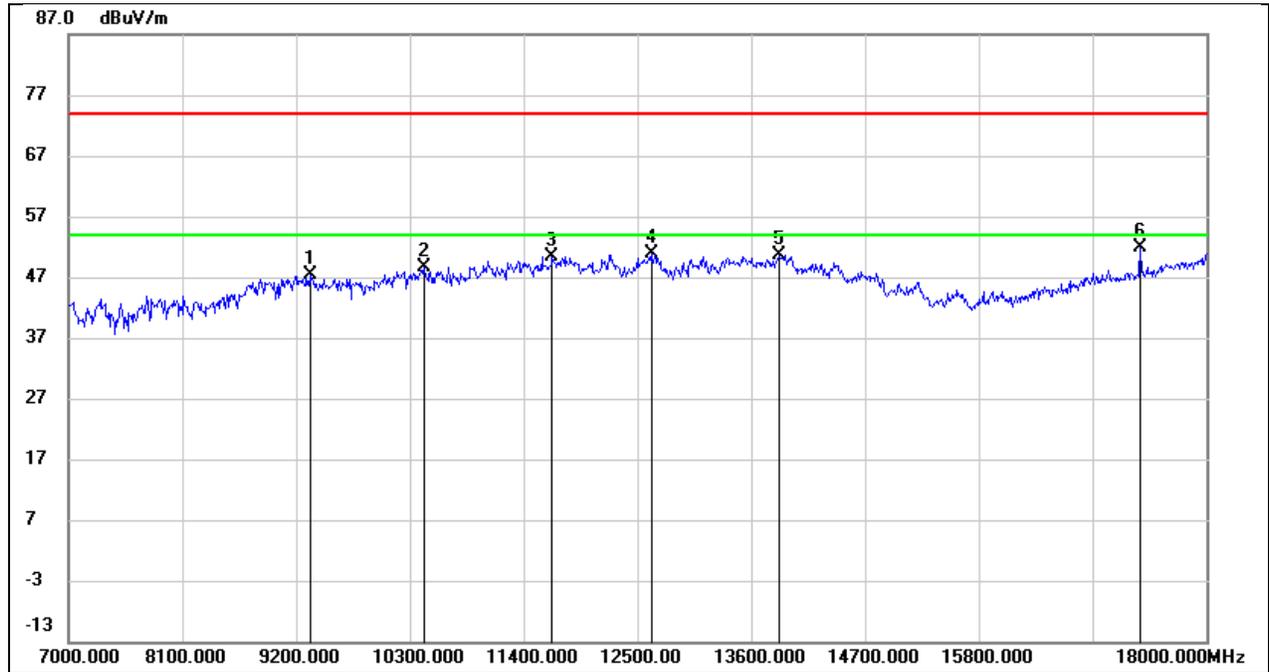
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	36.54	10.41	46.95	74.00	-27.05	peak
2	11048.000	34.10	14.91	49.01	74.00	-24.99	peak
3	11455.000	33.81	16.58	50.39	74.00	-23.61	peak
4	12665.000	32.75	18.04	50.79	74.00	-23.21	peak
5	13545.000	29.57	20.75	50.32	74.00	-23.68	peak
6	17989.000	24.05	26.04	50.09	74.00	-23.91	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	5786.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



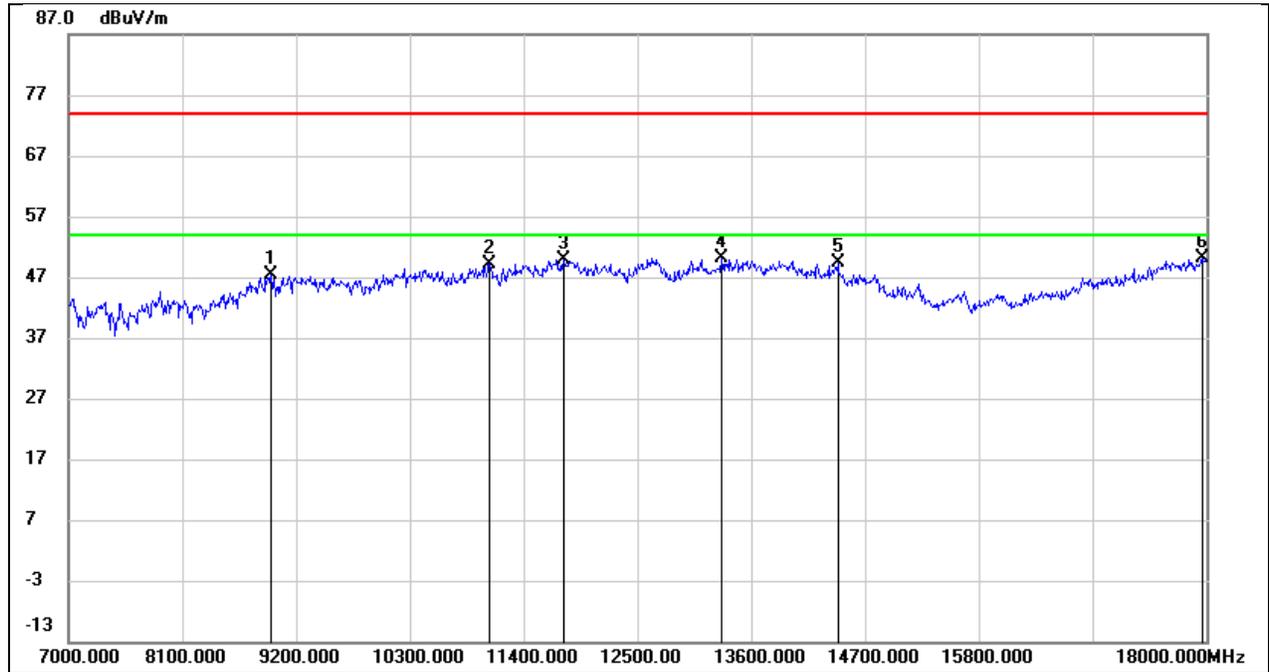
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9321.000	36.56	10.53	47.09	74.00	-26.91	peak
2	10333.000	35.66	12.47	48.13	74.00	-25.87	peak
3	11433.000	33.66	16.50	50.16	74.00	-23.84	peak
4	13897.000	29.13	21.62	50.75	74.00	-23.25	peak
5	17362.000	27.94	22.12	50.06	74.00	-23.94	peak
6	17758.000	26.10	24.46	50.56	74.00	-23.44	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	5786.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



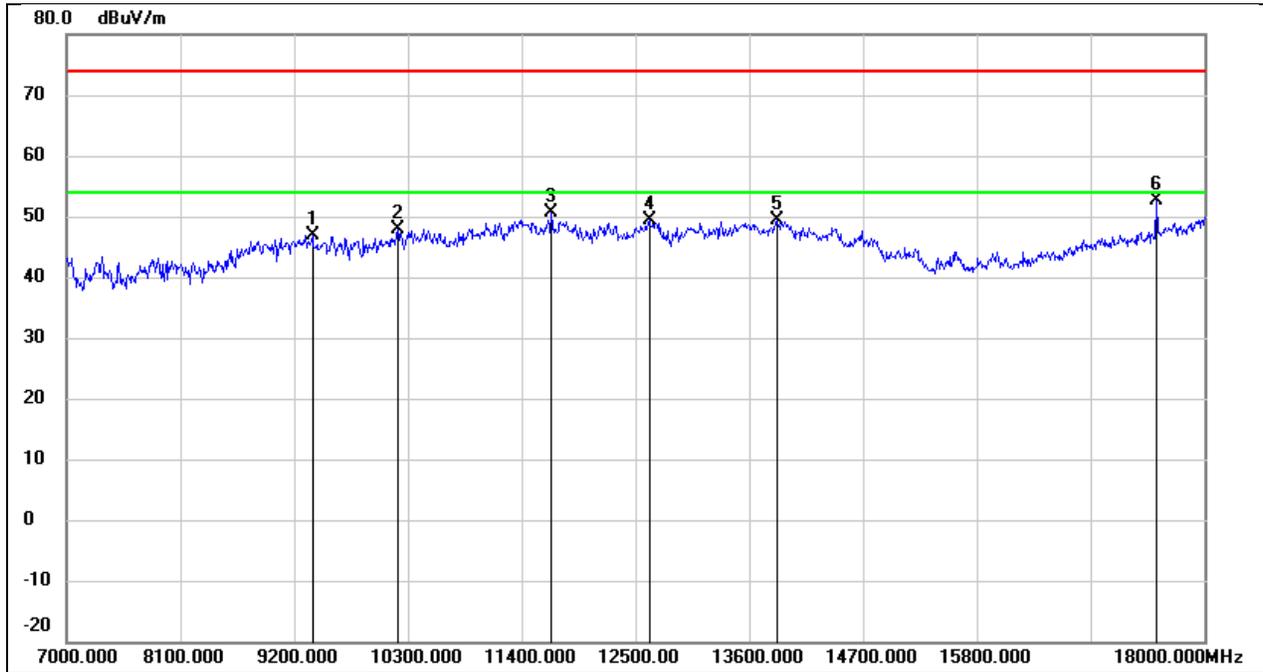
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	36.85	10.54	47.39	74.00	-26.61	peak
2	10432.000	35.89	12.67	48.56	74.00	-25.44	peak
3	11675.000	33.31	17.10	50.41	74.00	-23.59	peak
4	12632.000	32.96	17.99	50.95	74.00	-23.05	peak
5	13864.000	29.18	21.53	50.71	74.00	-23.29	peak
6	17362.000	29.86	22.12	51.98	74.00	-22.02	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	5844.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



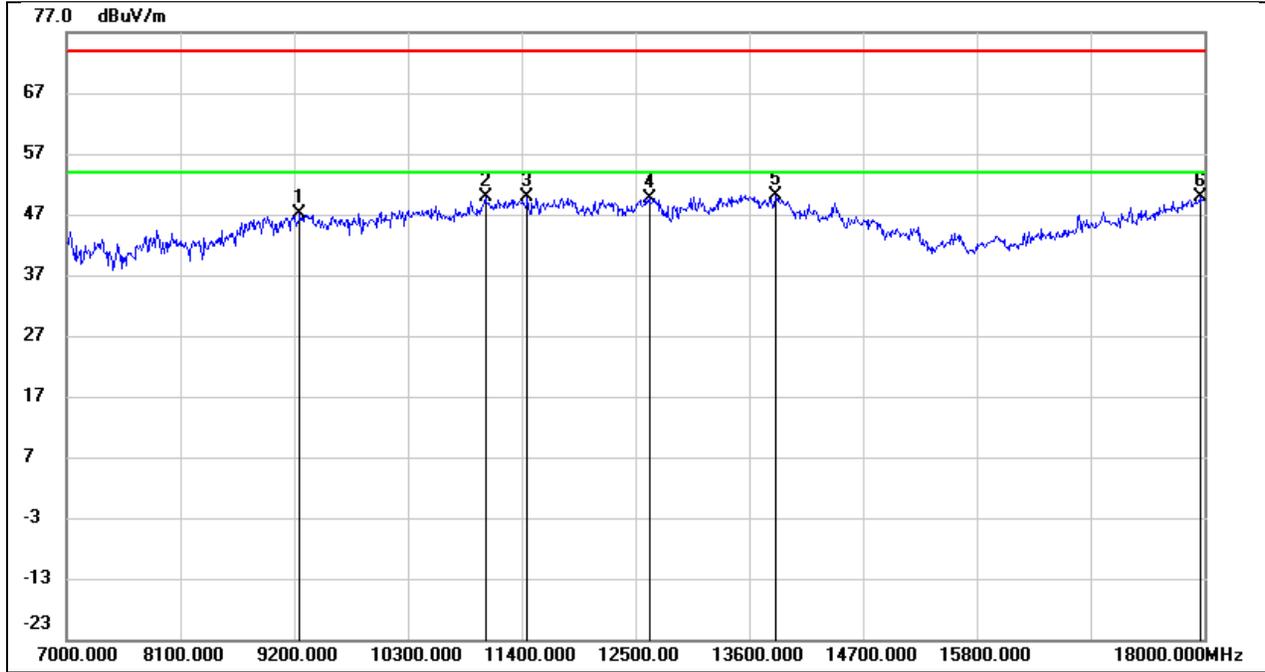
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8958.000	37.23	10.05	47.28	74.00	-26.72	peak
2	11070.000	34.09	15.01	49.10	74.00	-24.90	peak
3	11785.000	32.53	17.30	49.83	74.00	-24.17	peak
4	13314.000	30.35	19.83	50.18	74.00	-23.82	peak
5	14436.000	29.40	20.05	49.45	74.00	-24.55	peak
6	17956.000	24.36	25.82	50.18	74.00	-23.82	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	5844.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



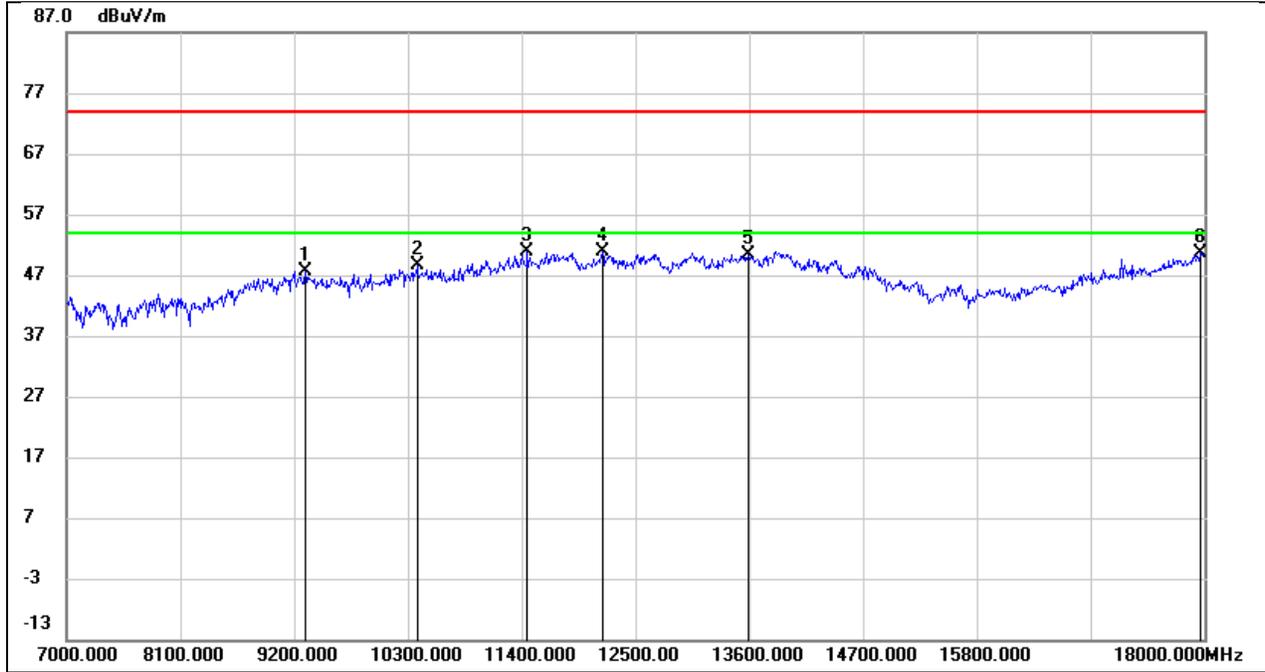
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9376.000	36.32	10.58	46.90	74.00	-27.10	peak
2	10201.000	35.67	12.19	47.86	74.00	-26.14	peak
3	11686.000	33.60	17.12	50.72	74.00	-23.28	peak
4	12632.000	31.28	17.99	49.27	74.00	-24.73	peak
5	13864.000	27.90	21.53	49.43	74.00	-24.57	peak
6	17538.000	29.76	22.97	52.73	74.00	-21.27	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



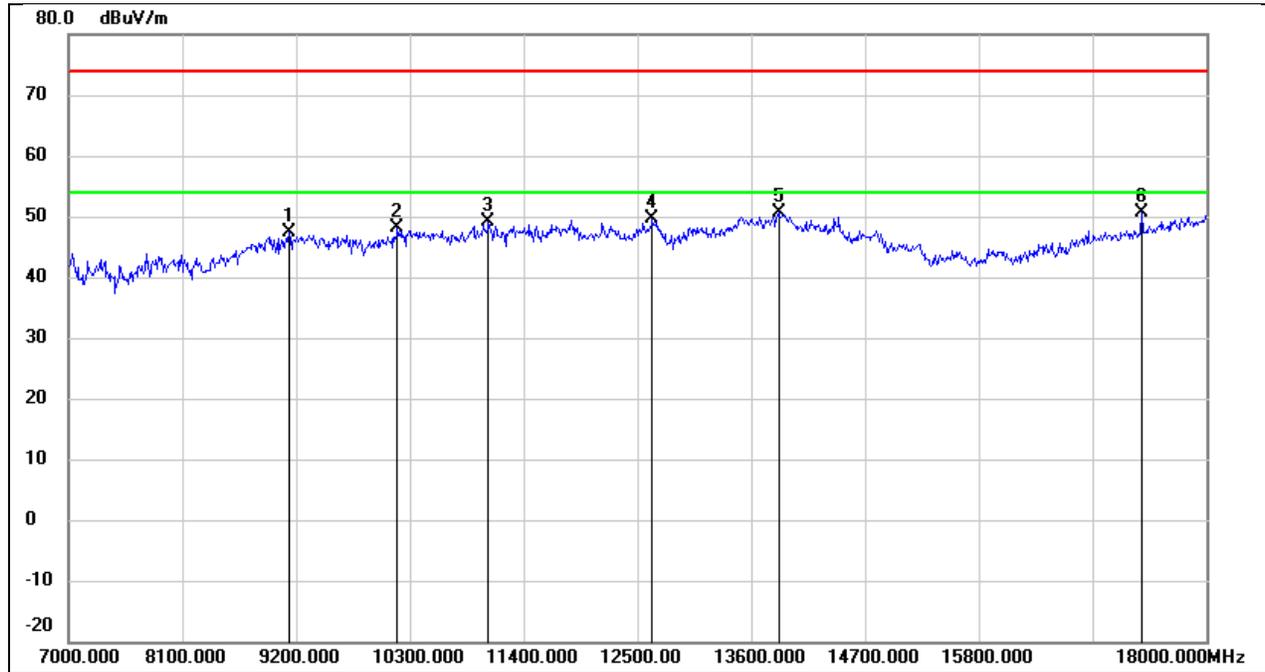
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	36.72	10.51	47.23	74.00	-26.77	peak
2	11048.000	34.87	14.91	49.78	74.00	-24.22	peak
3	11455.000	33.18	16.58	49.76	74.00	-24.24	peak
4	12632.000	31.76	17.99	49.75	74.00	-24.25	peak
5	13853.000	28.66	21.52	50.18	74.00	-23.82	peak
6	17956.000	23.97	25.82	49.79	74.00	-24.21	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



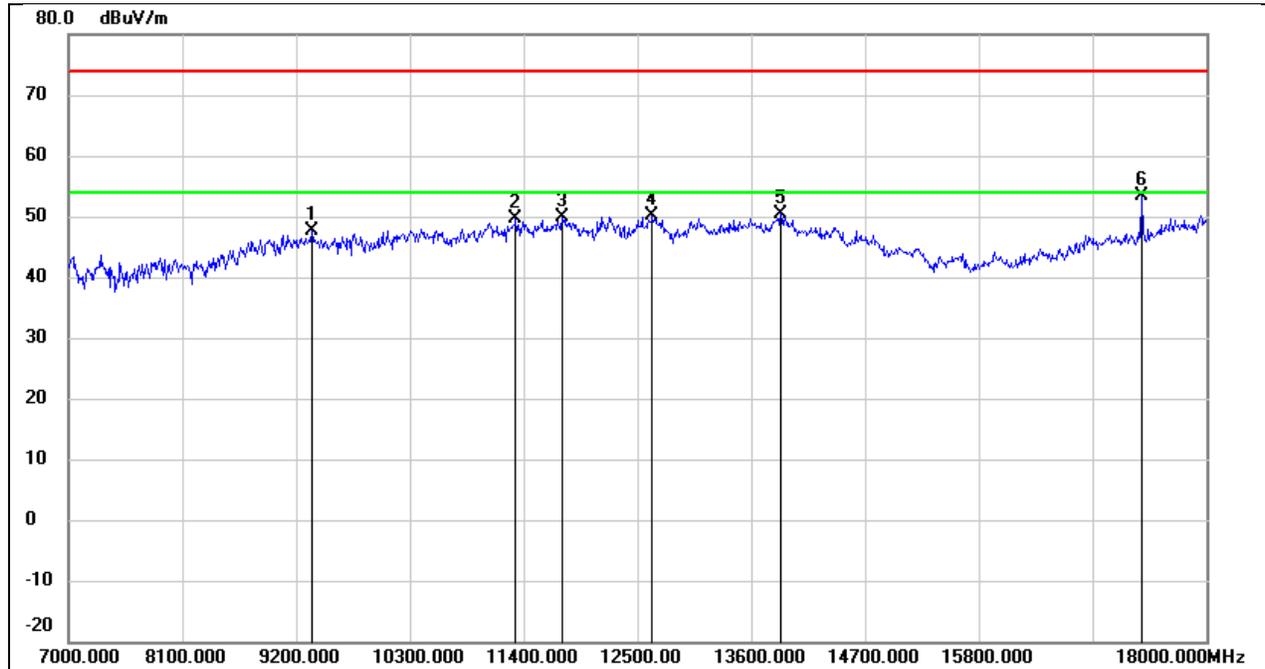
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9310.000	37.05	10.54	47.59	74.00	-26.41	peak
2	10388.000	35.93	12.59	48.52	74.00	-25.48	peak
3	11455.000	34.21	16.58	50.79	74.00	-23.21	peak
4	12181.000	33.15	17.75	50.90	74.00	-23.10	peak
5	13589.000	29.55	20.86	50.41	74.00	-23.59	peak
6	17967.000	24.73	25.89	50.62	74.00	-23.38	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5788.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



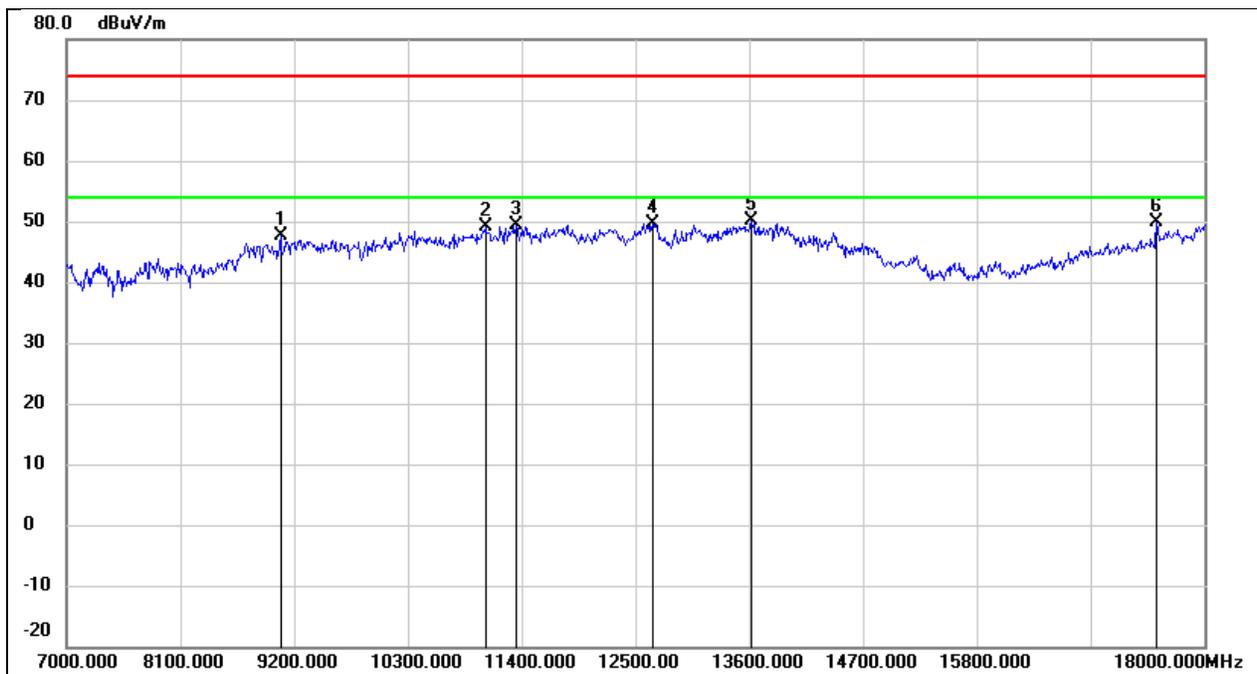
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	37.08	10.41	47.49	74.00	-26.51	peak
2	10179.000	35.97	12.14	48.11	74.00	-25.89	peak
3	11059.000	34.11	14.96	49.07	74.00	-24.93	peak
4	12643.000	31.64	18.01	49.65	74.00	-24.35	peak
5	13864.000	29.03	21.53	50.56	74.00	-23.44	peak
6	17373.000	28.52	22.16	50.68	74.00	-23.32	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5788.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



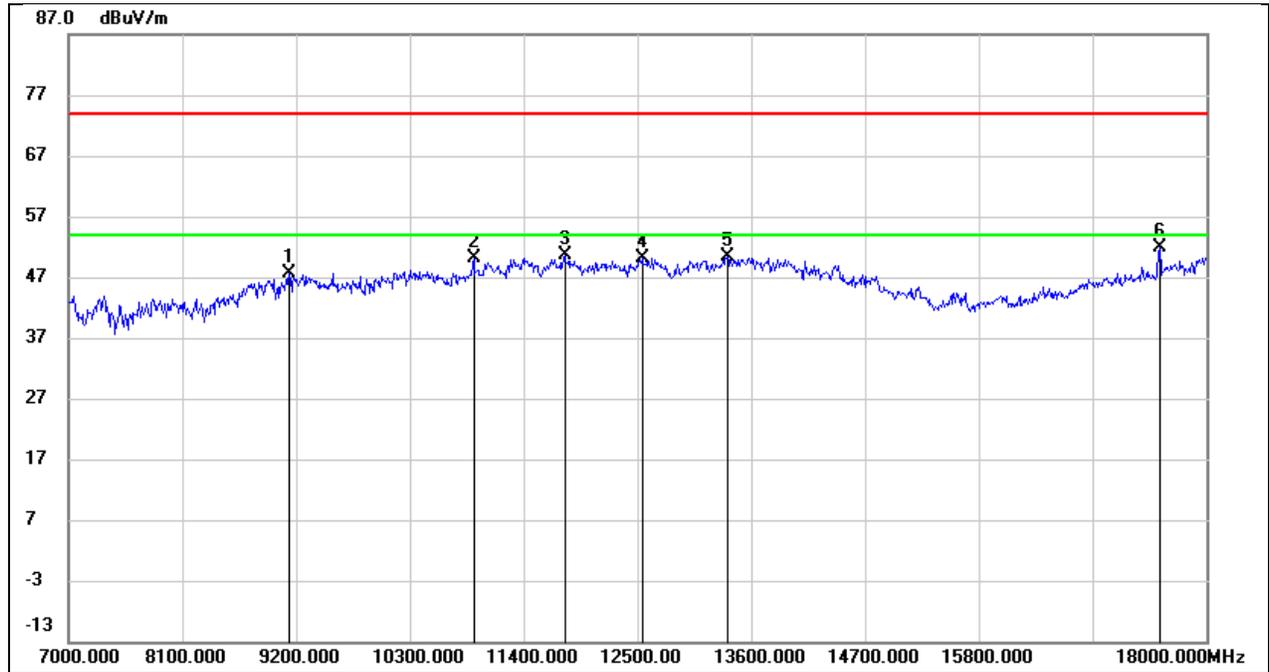
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9354.000	37.02	10.56	47.58	74.00	-26.42	peak
2	11323.000	33.48	16.05	49.53	74.00	-24.47	peak
3	11774.000	32.50	17.28	49.78	74.00	-24.22	peak
4	12643.000	32.16	18.01	50.17	74.00	-23.83	peak
5	13886.000	28.90	21.60	50.50	74.00	-23.50	peak
6	17373.000	31.22	22.16	53.38	74.00	-20.62	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5846.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



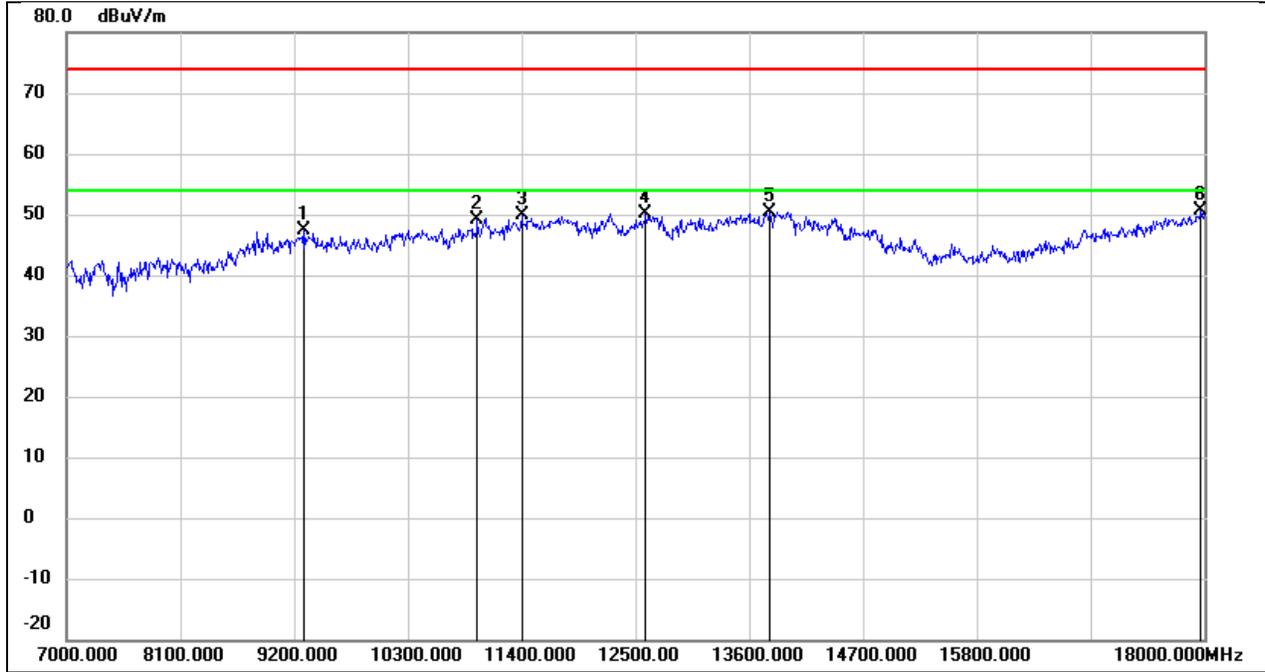
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9068.000	37.12	10.39	47.51	74.00	-26.49	peak
2	11048.000	34.21	14.91	49.12	74.00	-24.88	peak
3	11345.000	33.28	16.14	49.42	74.00	-24.58	peak
4	12665.000	31.48	18.04	49.52	74.00	-24.48	peak
5	13622.000	29.15	20.95	50.10	74.00	-23.90	peak
6	17538.000	26.98	22.97	49.95	74.00	-24.05	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5846.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



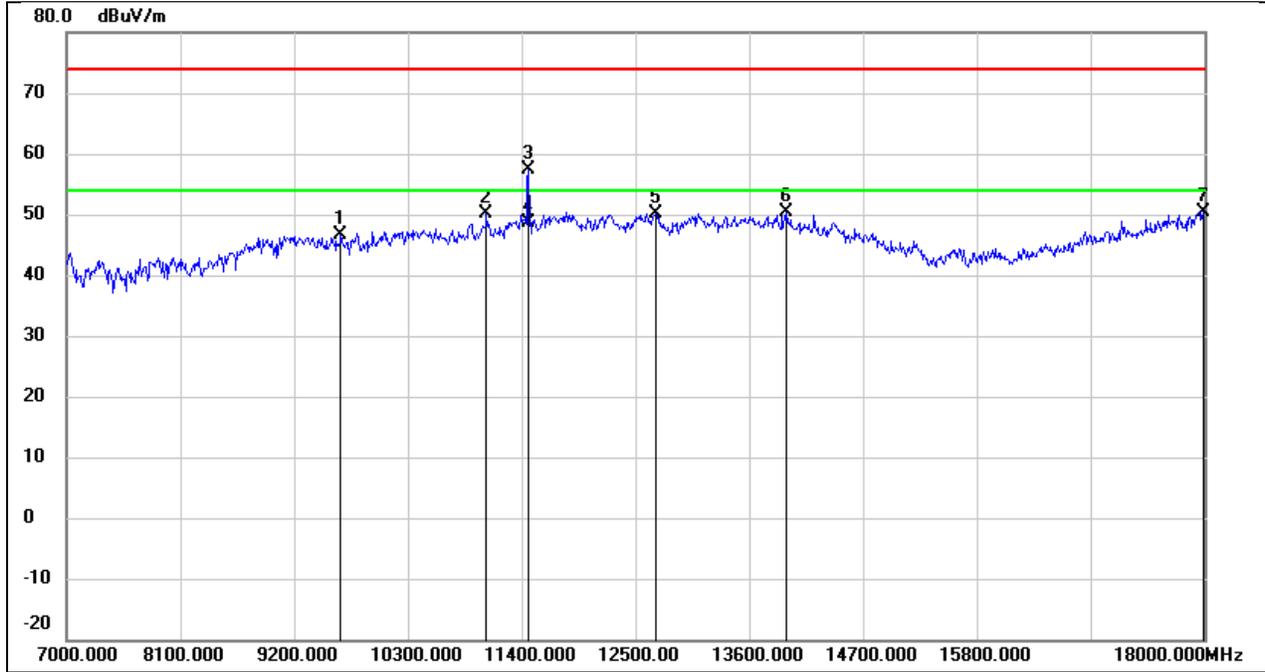
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9134.000	37.29	10.41	47.70	74.00	-26.30	peak
2	10916.000	35.83	14.39	50.22	74.00	-23.78	peak
3	11796.000	33.31	17.32	50.63	74.00	-23.37	peak
4	12544.000	32.30	17.88	50.18	74.00	-23.82	peak
5	13369.000	30.34	20.06	50.40	74.00	-23.60	peak
6	17549.000	28.81	23.04	51.85	74.00	-22.15	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	5730.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



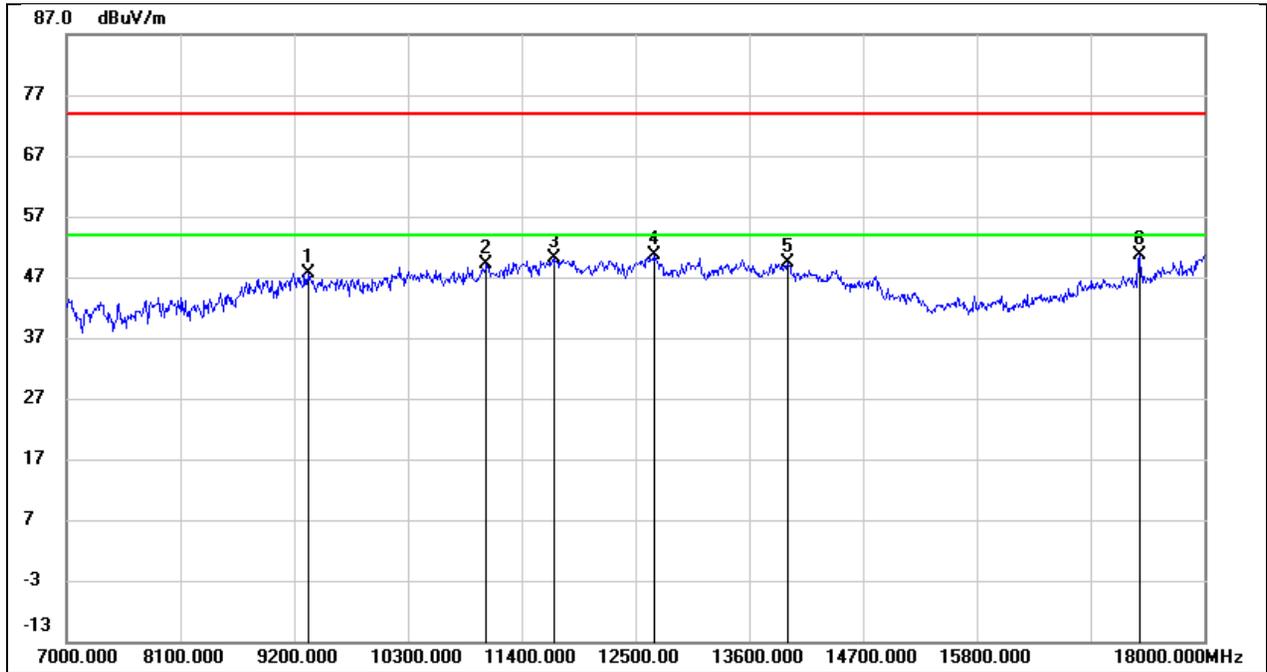
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9299.000	36.74	10.53	47.27	74.00	-26.73	peak
2	10971.000	34.51	14.61	49.12	74.00	-24.88	peak
3	11400.000	33.56	16.36	49.92	74.00	-24.08	peak
4	12599.000	32.13	17.95	50.08	74.00	-23.92	peak
5	13798.000	29.05	21.38	50.43	74.00	-23.57	peak
6	17967.000	24.62	25.89	50.51	74.00	-23.49	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	5730.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



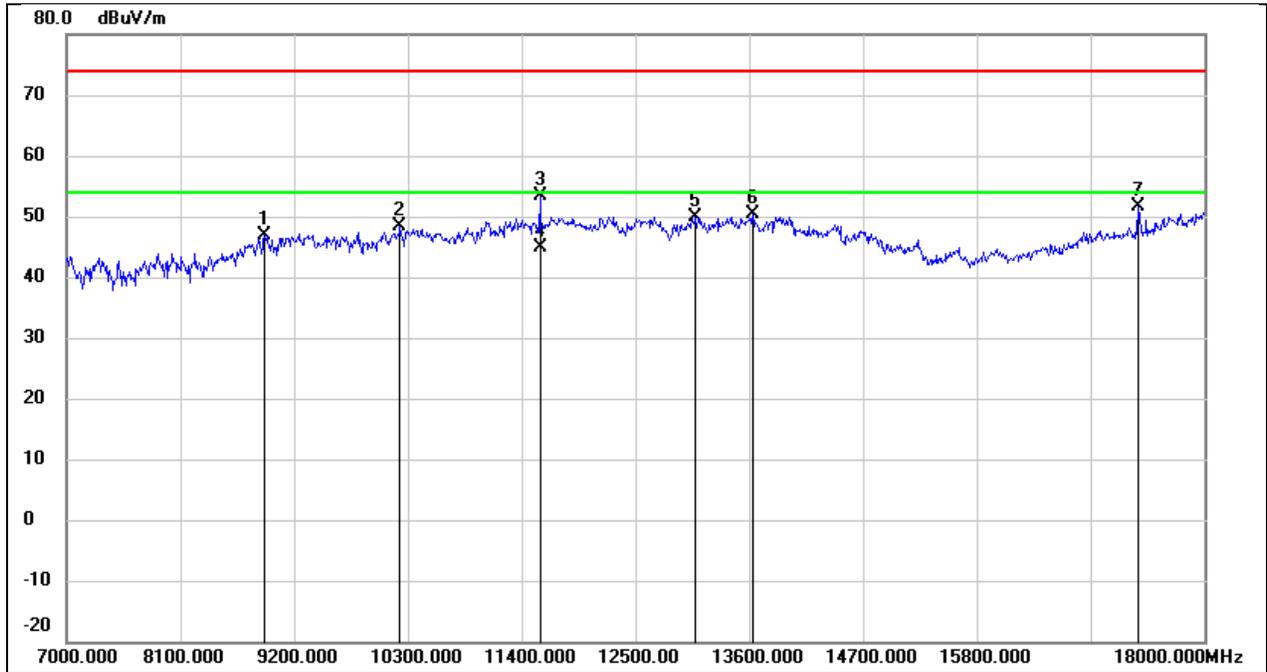
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9651.000	35.55	10.99	46.54	74.00	-27.46	peak
2	11059.000	35.28	14.96	50.24	74.00	-23.76	peak
3	11466.000	40.69	16.63	57.32	74.00	-16.68	peak
4	11466.000	31.94	16.63	48.57	54.00	-5.43	AVG
5	12698.000	32.12	18.08	50.20	74.00	-23.80	peak
6	13963.000	28.65	21.78	50.43	74.00	-23.57	peak
7	17989.000	24.28	26.04	50.32	74.00	-23.68	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	5787.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



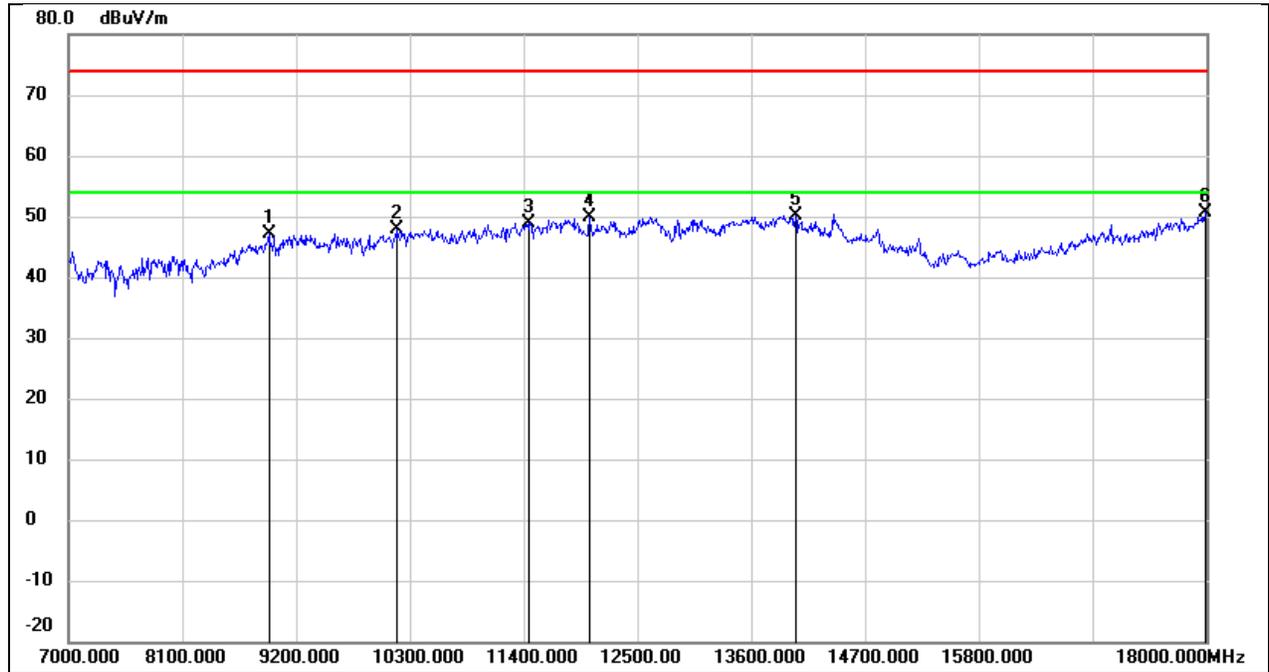
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	37.20	10.54	47.74	74.00	-26.26	peak
2	11059.000	34.14	14.96	49.10	74.00	-24.90	peak
3	11708.000	33.04	17.16	50.20	74.00	-23.80	peak
4	12687.000	32.55	18.05	50.60	74.00	-23.40	peak
5	13974.000	27.62	21.82	49.44	74.00	-24.56	peak
6	17373.000	28.47	22.16	50.63	74.00	-23.37	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	5787.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



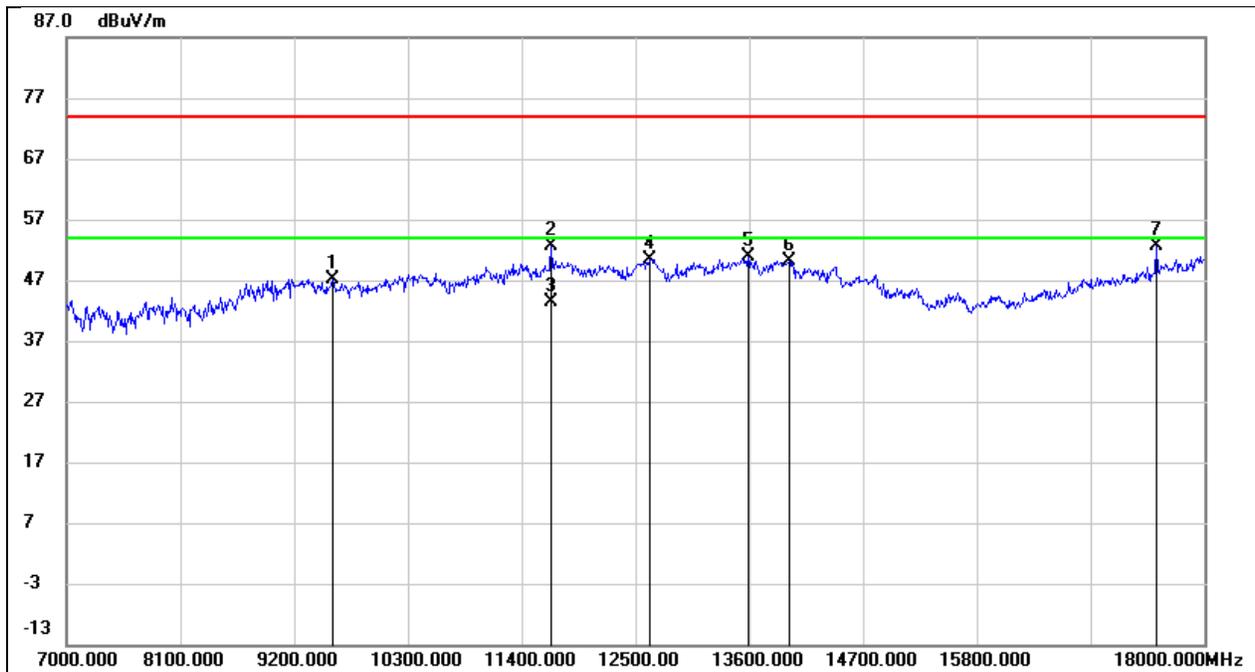
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8914.000	37.17	9.75	46.92	74.00	-27.08	peak
2	10223.000	36.22	12.24	48.46	74.00	-25.54	peak
3	11576.000	36.35	16.91	53.26	74.00	-20.74	peak
4	11576.000	28.07	16.91	44.98	54.00	-9.02	AVG
5	13083.000	31.19	18.81	50.00	74.00	-24.00	peak
6	13633.000	29.29	20.97	50.26	74.00	-23.74	peak
7	17362.000	29.45	22.12	51.57	74.00	-22.43	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	5844.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



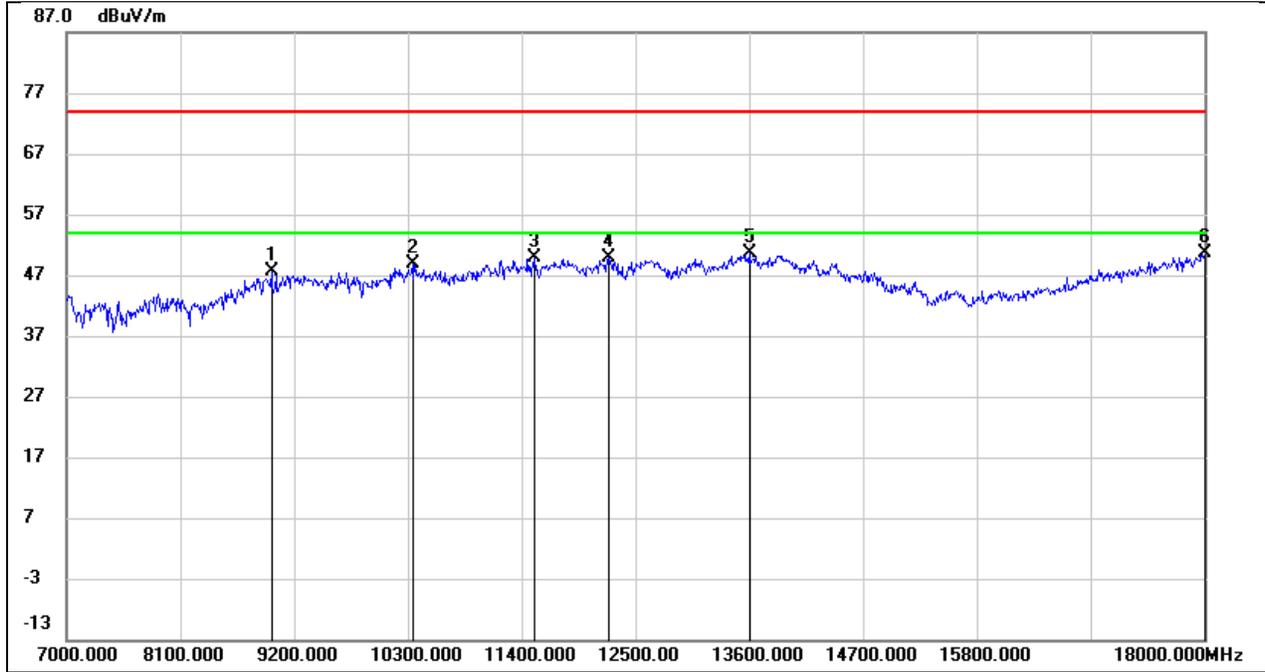
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8936.000	37.22	9.90	47.12	74.00	-26.88	peak
2	10168.000	35.80	12.13	47.93	74.00	-26.07	peak
3	11444.000	32.45	16.53	48.98	74.00	-25.02	peak
4	12038.000	32.20	17.71	49.91	74.00	-24.09	peak
5	14029.000	28.46	21.76	50.22	74.00	-23.78	peak
6	17989.000	24.59	26.04	50.63	74.00	-23.37	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	5844.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



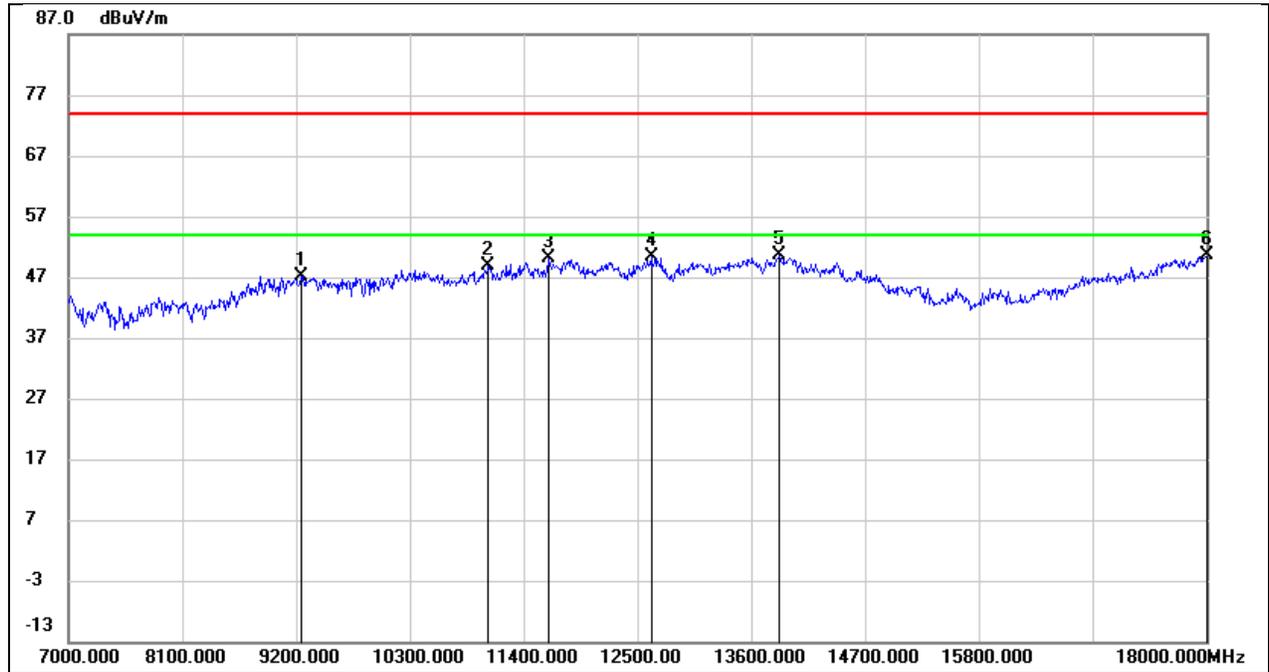
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9574.000	36.44	10.81	47.25	74.00	-26.75	peak
2	11686.000	35.42	17.12	52.54	74.00	-21.46	peak
3	11686.000	26.14	17.12	43.26	54.00	-10.74	AVG
4	12643.000	32.38	18.01	50.39	74.00	-23.61	peak
5	13589.000	30.13	20.86	50.99	74.00	-23.01	peak
6	13985.000	28.30	21.85	50.15	74.00	-23.85	peak
7	17538.000	29.62	22.97	52.59	74.00	-21.41	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	5732.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



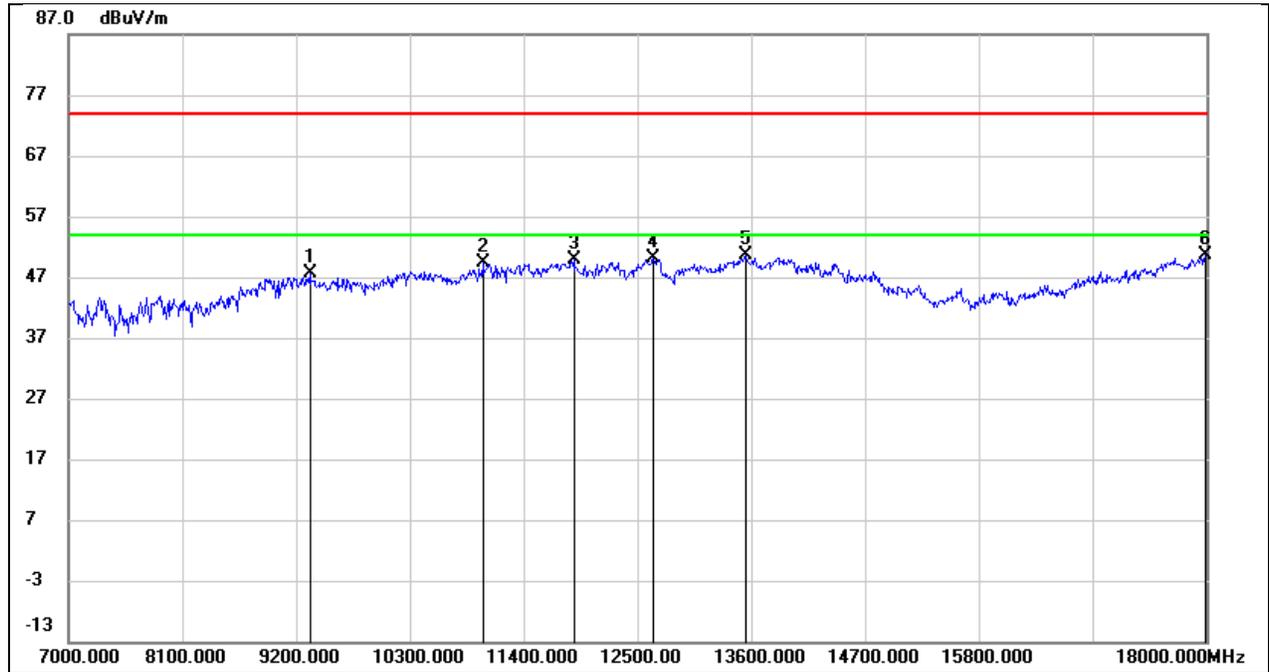
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8980.000	37.34	10.21	47.55	74.00	-26.45	peak
2	10344.000	36.42	12.49	48.91	74.00	-25.09	peak
3	11521.000	33.05	16.82	49.87	74.00	-24.13	peak
4	12236.000	32.03	17.76	49.79	74.00	-24.21	peak
5	13600.000	29.65	20.89	50.54	74.00	-23.46	peak
6	18000.000	24.58	26.12	50.70	74.00	-23.30	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	5732.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



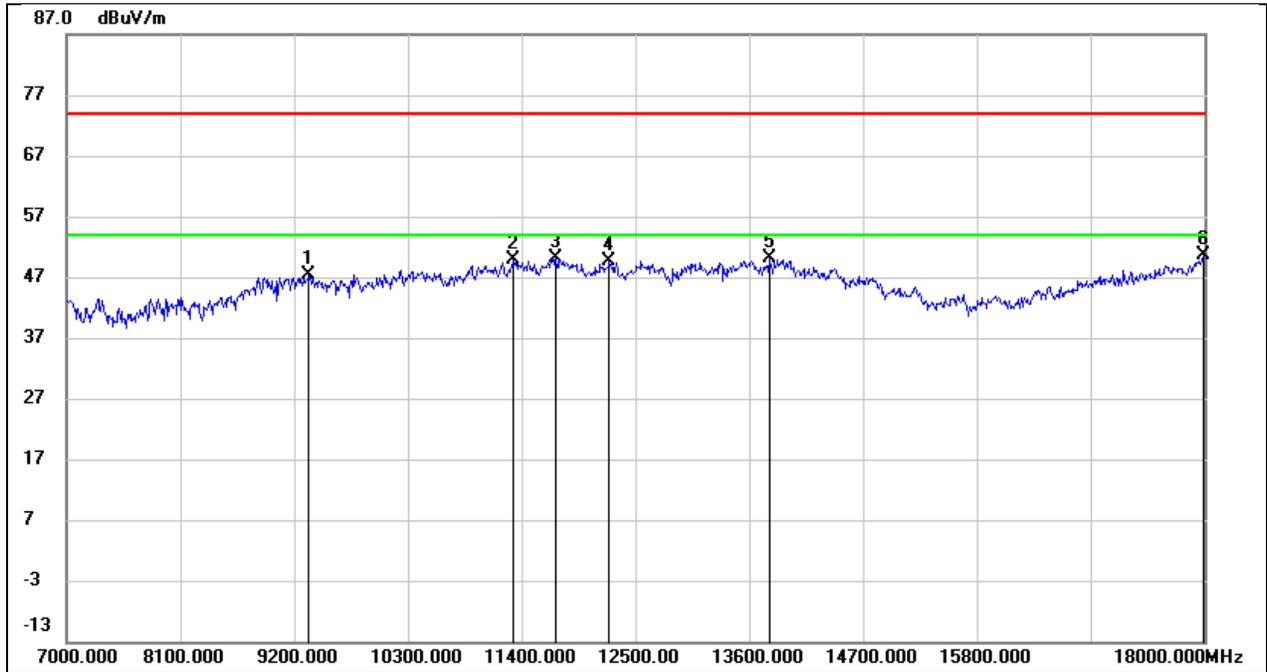
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9255.000	36.70	10.51	47.21	74.00	-26.79	peak
2	11059.000	33.87	14.96	48.83	74.00	-25.17	peak
3	11642.000	33.21	17.03	50.24	74.00	-23.76	peak
4	12632.000	32.27	17.99	50.26	74.00	-23.74	peak
5	13875.000	29.06	21.57	50.63	74.00	-23.37	peak
6	18000.000	24.53	26.12	50.65	74.00	-23.35	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	5787.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



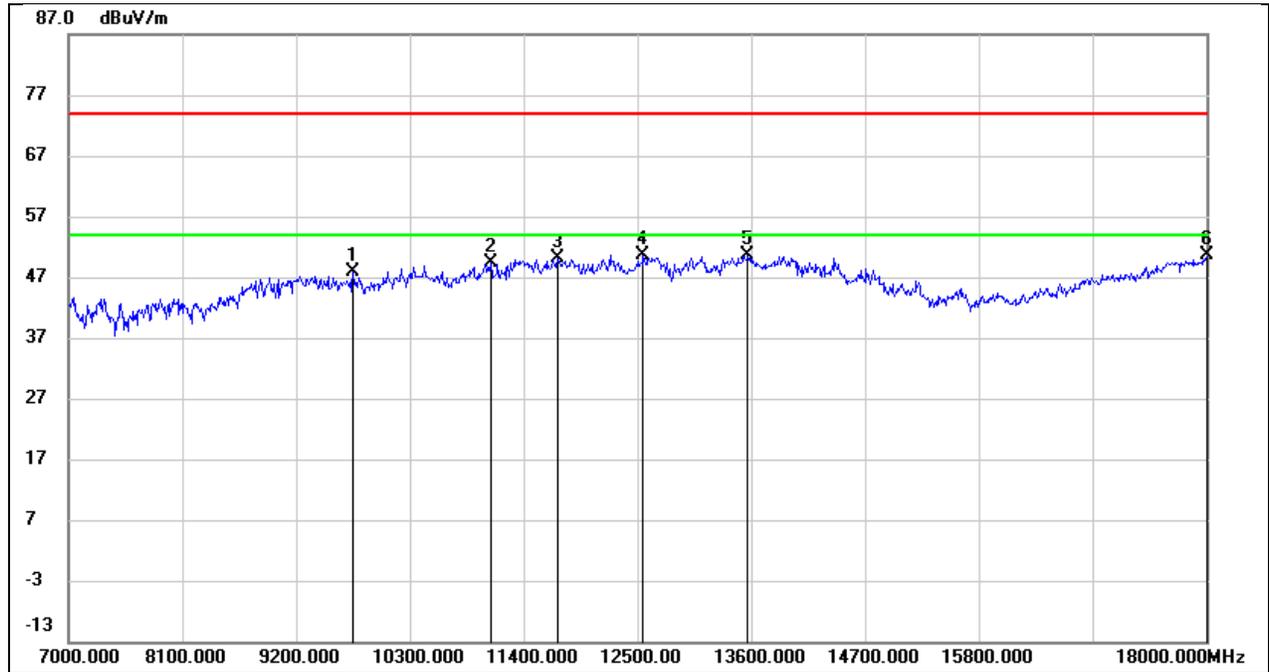
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	37.02	10.54	47.56	74.00	-26.44	peak
2	11004.000	34.59	14.74	49.33	74.00	-24.67	peak
3	11884.000	32.50	17.48	49.98	74.00	-24.02	peak
4	12654.000	32.06	18.01	50.07	74.00	-23.93	peak
5	13545.000	29.91	20.75	50.66	74.00	-23.34	peak
6	17989.000	24.67	26.04	50.71	74.00	-23.29	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	5787.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



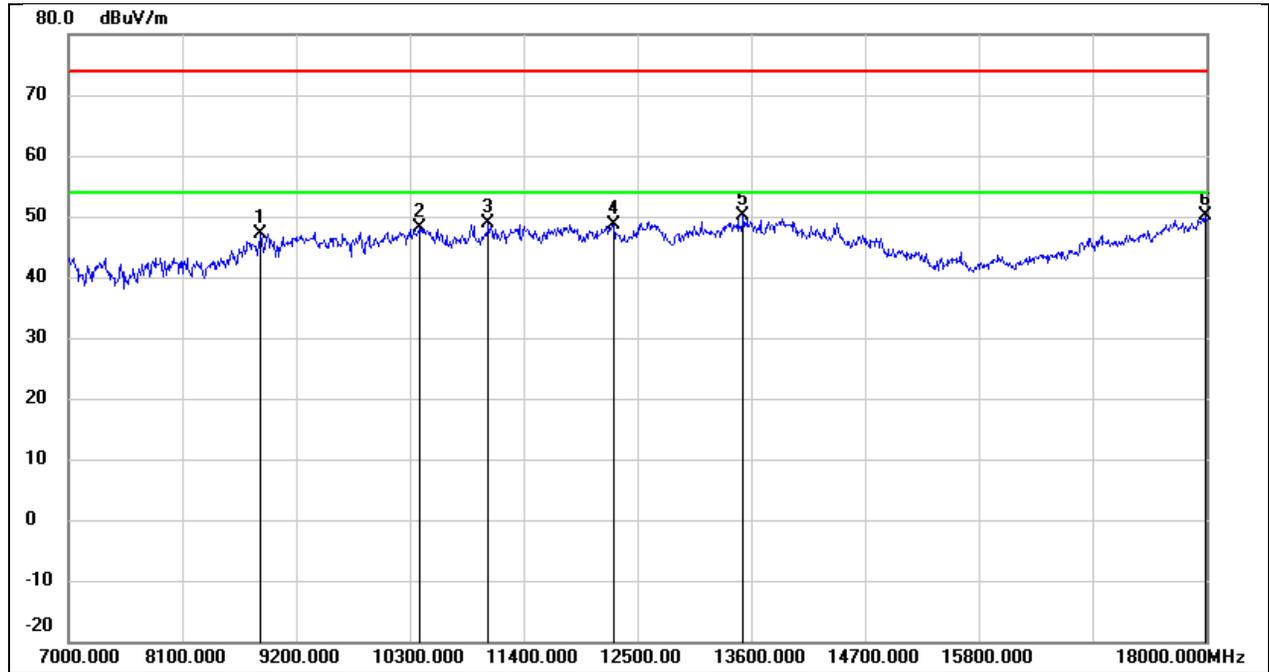
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9343.000	36.80	10.55	47.35	74.00	-26.65	peak
2	11323.000	33.86	16.05	49.91	74.00	-24.09	peak
3	11730.000	32.96	17.19	50.15	74.00	-23.85	peak
4	12247.000	31.87	17.77	49.64	74.00	-24.36	peak
5	13798.000	28.78	21.38	50.16	74.00	-23.84	peak
6	17989.000	24.57	26.04	50.61	74.00	-23.39	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	5844.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



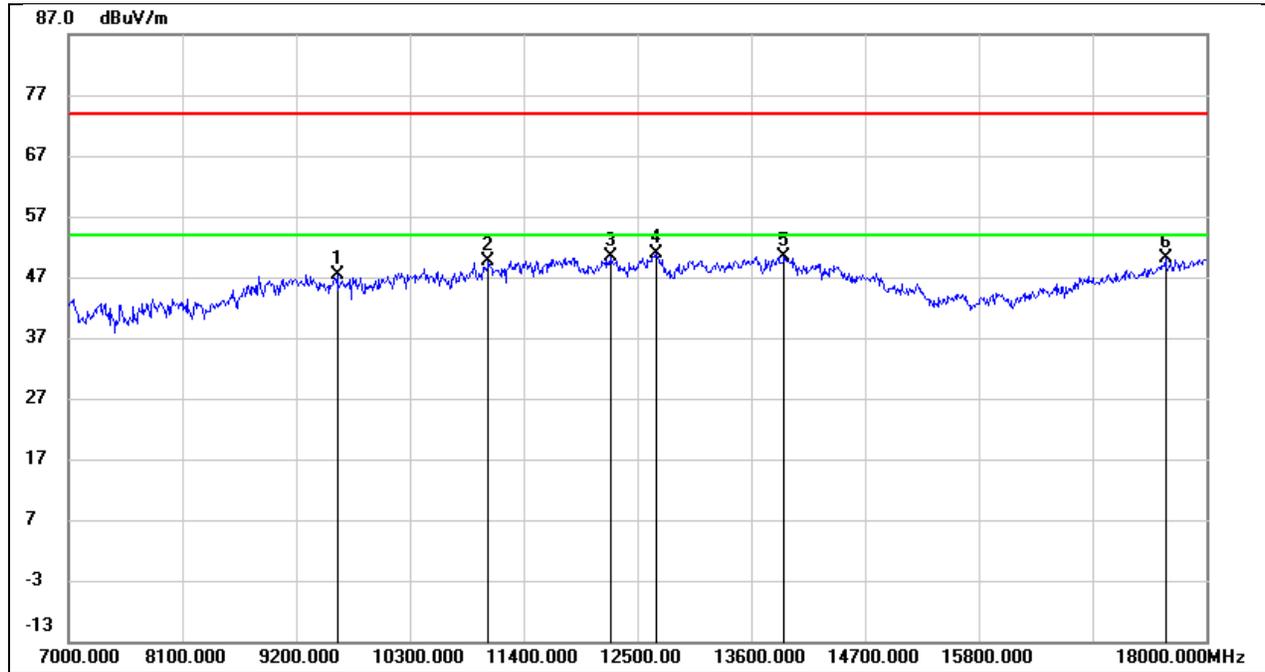
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9750.000	36.56	11.21	47.77	74.00	-26.23	peak
2	11081.000	34.25	15.05	49.30	74.00	-24.70	peak
3	11730.000	33.01	17.19	50.20	74.00	-23.80	peak
4	12555.000	32.85	17.90	50.75	74.00	-23.25	peak
5	13567.000	29.80	20.80	50.60	74.00	-23.40	peak
6	18000.000	24.44	26.12	50.56	74.00	-23.44	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	5844.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



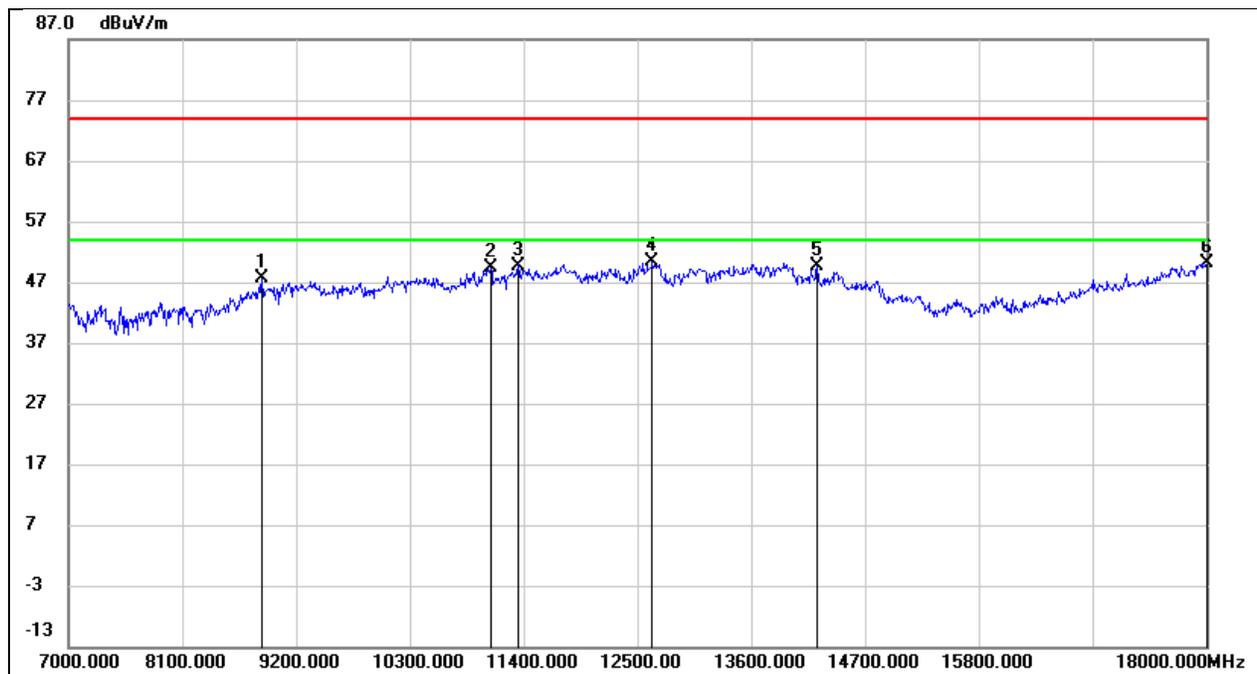
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8859.000	37.76	9.36	47.12	74.00	-26.88	peak
2	10399.000	35.52	12.61	48.13	74.00	-25.87	peak
3	11059.000	33.86	14.96	48.82	74.00	-25.18	peak
4	12269.000	30.76	17.77	48.53	74.00	-25.47	peak
5	13523.000	29.35	20.70	50.05	74.00	-23.95	peak
6	17989.000	24.05	26.04	50.09	74.00	-23.91	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	5735.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



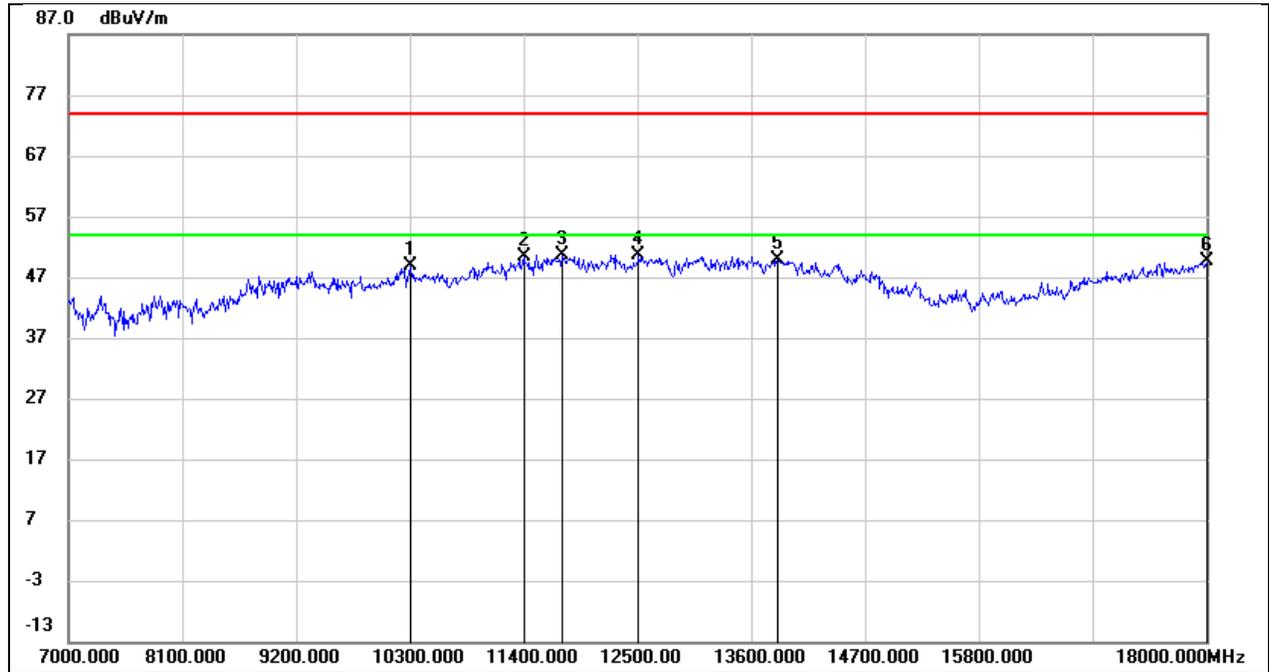
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9596.000	36.58	10.87	47.45	74.00	-26.55	peak
2	11059.000	34.63	14.96	49.59	74.00	-24.41	peak
3	12236.000	32.67	17.76	50.43	74.00	-23.57	peak
4	12676.000	32.91	18.05	50.96	74.00	-23.04	peak
5	13919.000	28.82	21.68	50.50	74.00	-23.50	peak
6	17604.000	26.64	23.41	50.05	74.00	-23.95	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	5735.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



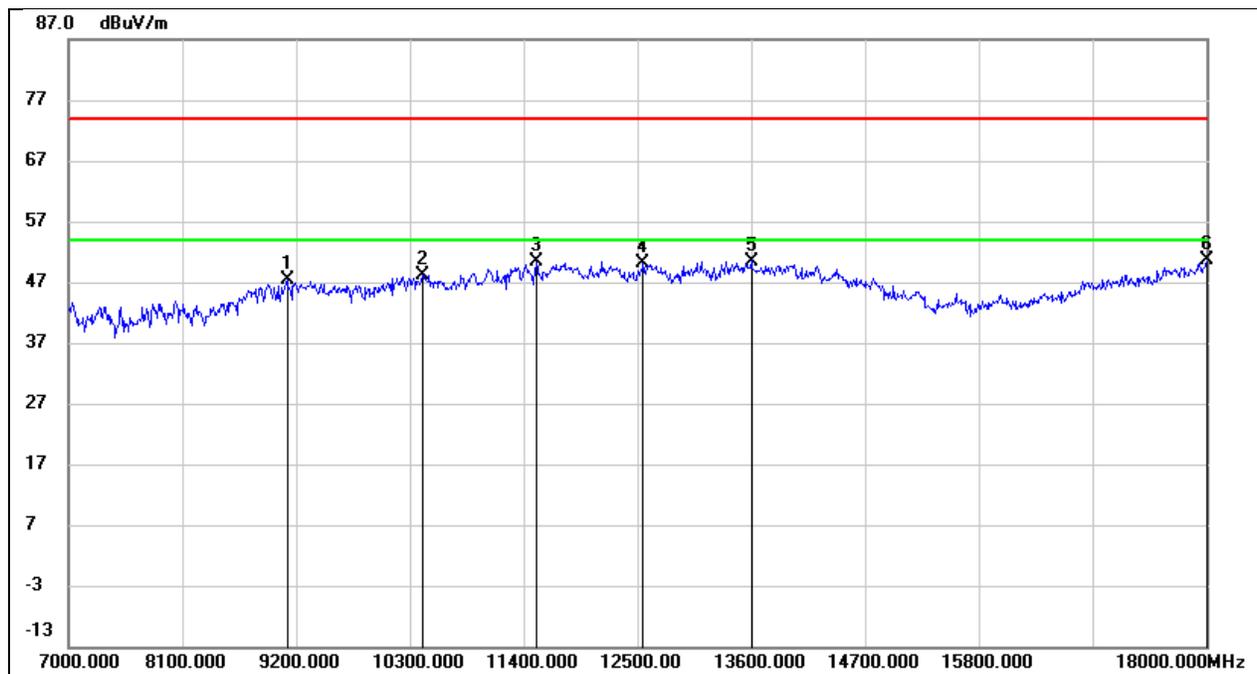
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8870.000	38.16	9.44	47.60	74.00	-26.40	peak
2	11081.000	34.21	15.05	49.26	74.00	-24.74	peak
3	11345.000	33.61	16.14	49.75	74.00	-24.25	peak
4	12643.000	32.31	18.01	50.32	74.00	-23.68	peak
5	14238.000	28.80	20.88	49.68	74.00	-24.32	peak
6	18000.000	23.95	26.12	50.07	74.00	-23.93	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	5787.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



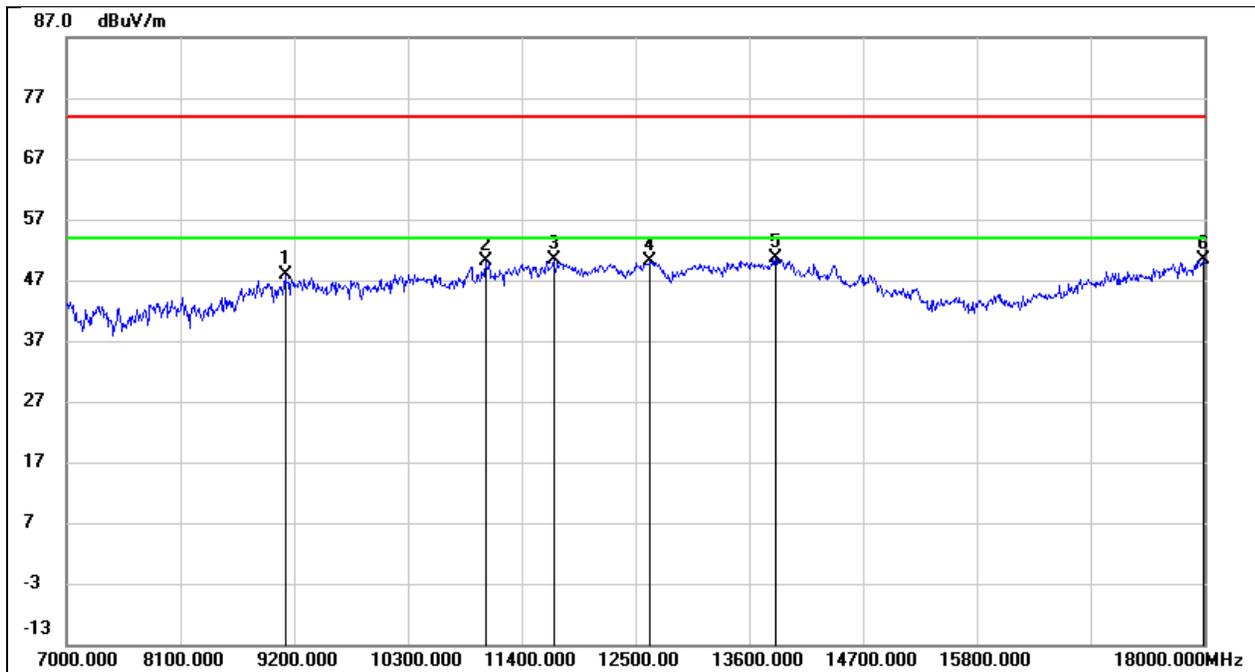
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10300.000	36.43	12.40	48.83	74.00	-25.17	peak
2	11400.000	34.10	16.36	50.46	74.00	-23.54	peak
3	11774.000	33.34	17.28	50.62	74.00	-23.38	peak
4	12511.000	32.71	17.84	50.55	74.00	-23.45	peak
5	13853.000	28.40	21.52	49.92	74.00	-24.08	peak
6	18000.000	23.43	26.12	49.55	74.00	-24.45	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	5787.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



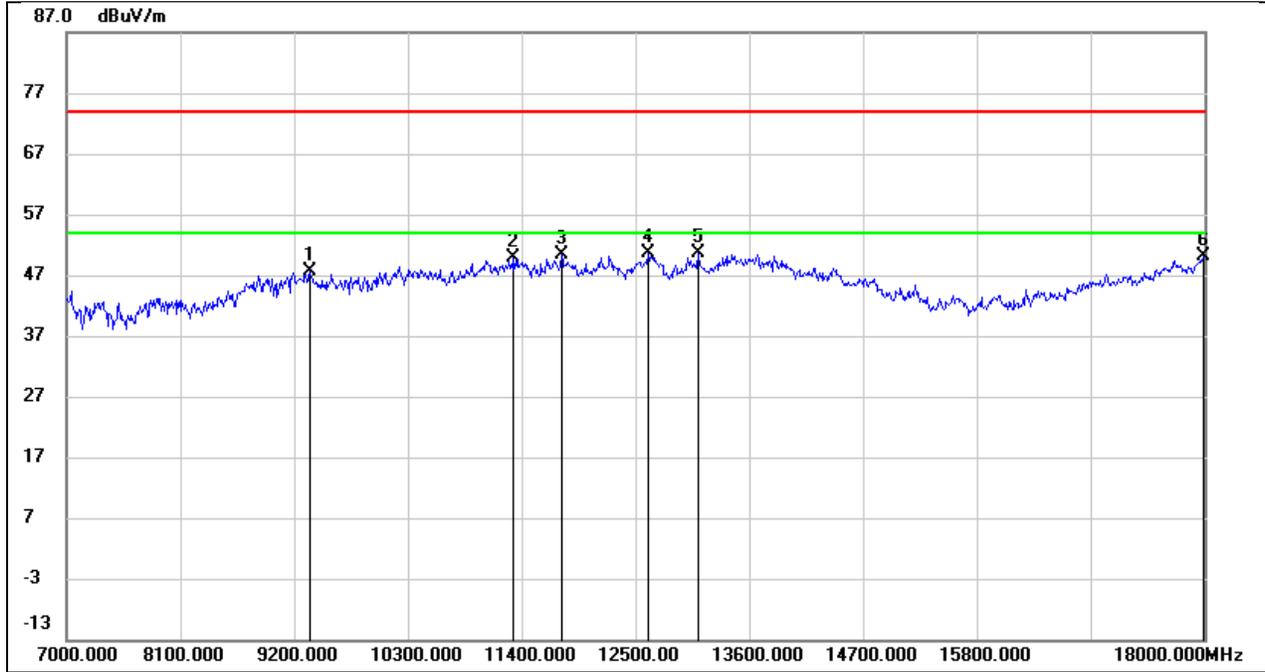
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9112.000	36.85	10.41	47.26	74.00	-26.74	peak
2	10421.000	35.52	12.66	48.18	74.00	-25.82	peak
3	11521.000	33.52	16.82	50.34	74.00	-23.66	peak
4	12555.000	32.21	17.90	50.11	74.00	-23.89	peak
5	13600.000	29.61	20.89	50.50	74.00	-23.50	peak
6	18000.000	24.62	26.12	50.74	74.00	-23.26	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	5839.5
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9112.000	37.51	10.41	47.92	74.00	-26.08	peak
2	11048.000	35.26	14.91	50.17	74.00	-23.83	peak
3	11708.000	33.33	17.16	50.49	74.00	-23.51	peak
4	12643.000	32.01	18.01	50.02	74.00	-23.98	peak
5	13853.000	29.02	21.52	50.54	74.00	-23.46	peak
6	17989.000	24.32	26.04	50.36	74.00	-23.64	peak

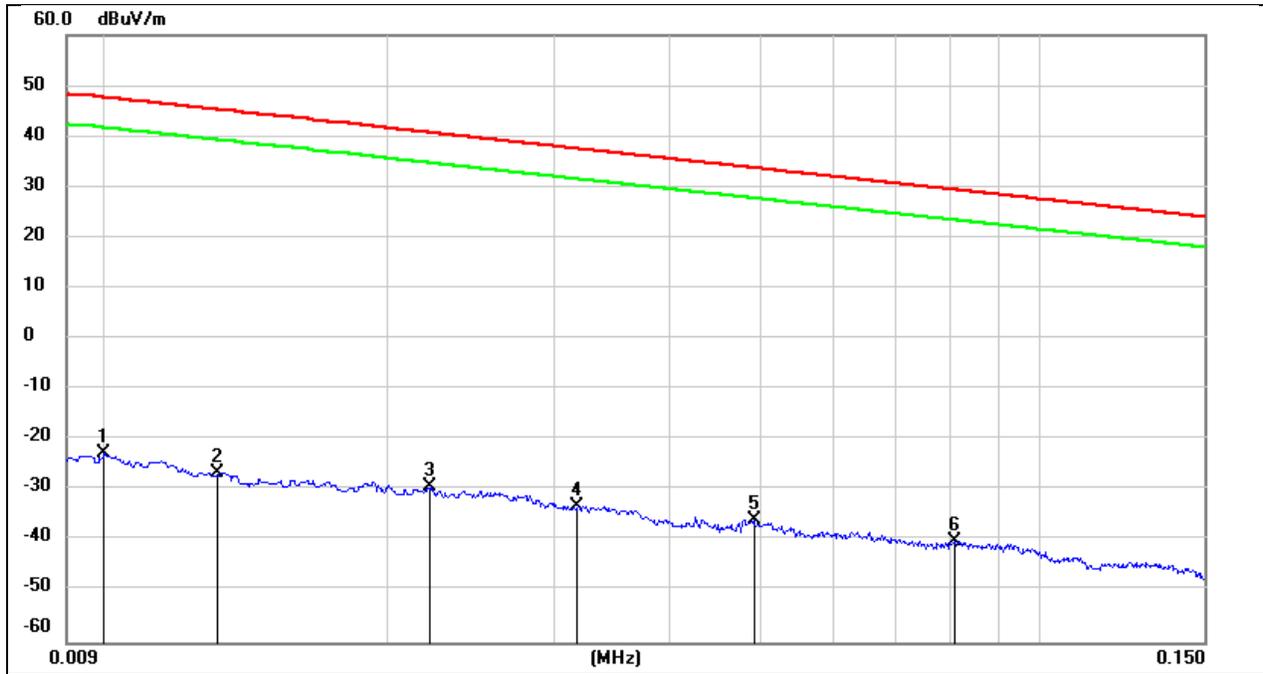
Test Mode:	SRD 20MHz	Frequency(MHz):	5839.5
Polarity:	Vertical	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9354.000	37.10	10.56	47.66	74.00	-26.34	peak
2	11323.000	33.90	16.05	49.95	74.00	-24.05	peak
3	11785.000	33.13	17.30	50.43	74.00	-23.57	peak
4	12621.000	32.62	17.98	50.60	74.00	-23.40	peak
5	13105.000	31.62	18.91	50.53	74.00	-23.47	peak
6	17989.000	24.15	26.04	50.19	74.00	-23.81	peak

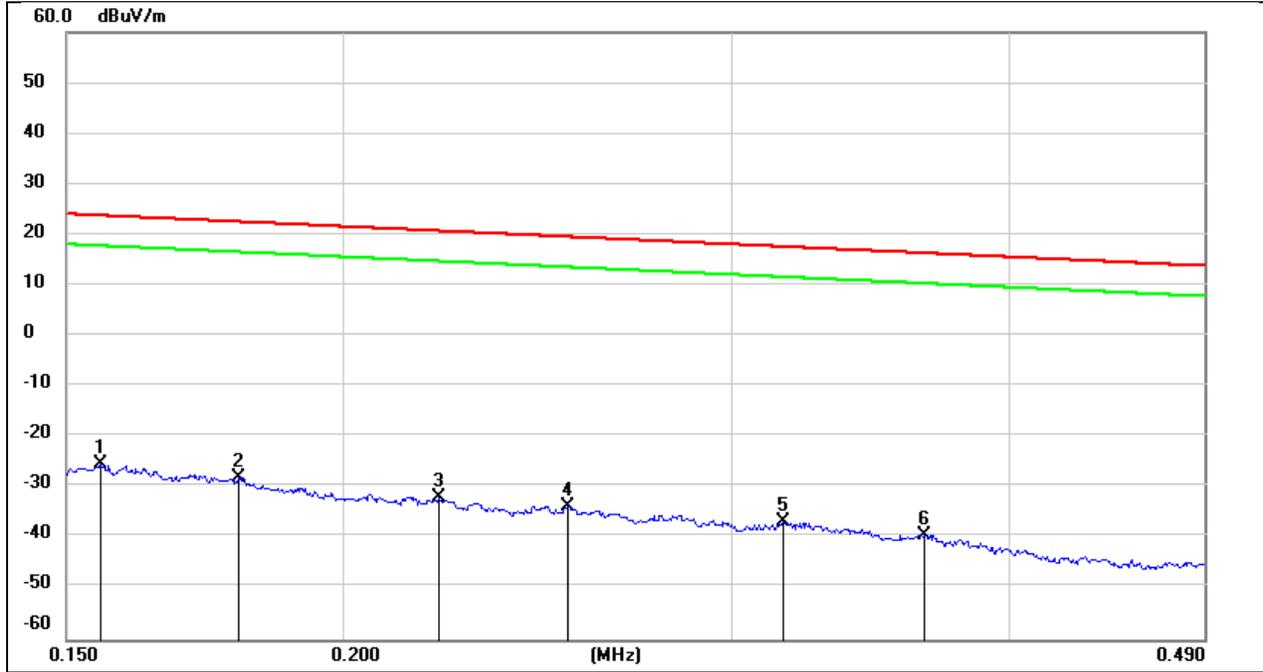
8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.6 V



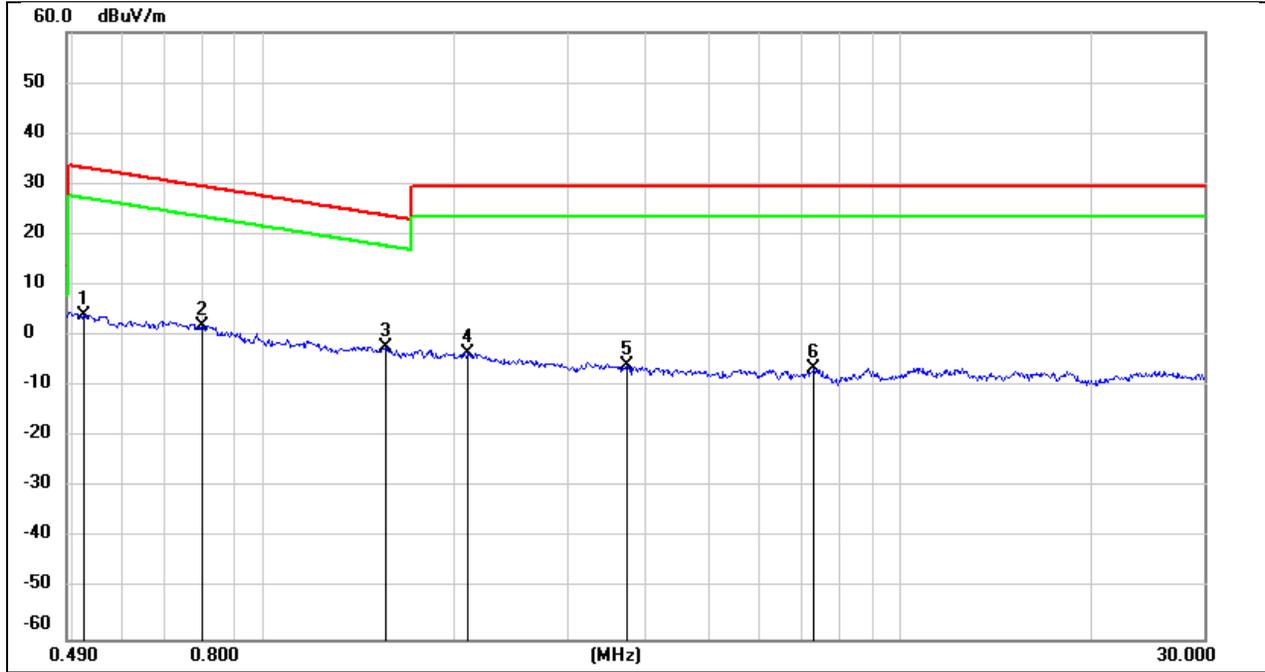
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Result (dBuA/m)	Limit (dBuV/m)	Limit (dBuA/m)	Margin (dB)	Remark
1	0.01	78.72	-101.4	-22.68	-74.18	47.6	-3.9	-70.28	peak
2	0.0131	74.95	-101.38	-26.43	-77.93	45.25	-6.25	-71.68	peak
3	0.0221	72.13	-101.35	-29.22	-80.72	40.71	-10.79	-69.93	peak
4	0.0318	68.34	-101.4	-33.06	-84.56	37.55	-13.95	-70.61	peak
5	0.0492	65.55	-101.47	-35.92	-87.42	33.76	-17.74	-69.68	peak
6	0.0806	61.68	-101.63	-39.95	-91.45	29.47	-22.03	-69.42	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Result (dBuA/m)	Limit (dBuV/m)	Limit (dBuA/m)	Margin (dB)	Remark
1	0.1554	76.27	-101.65	-25.38	-76.88	23.77	-27.73	-49.15	peak
2	0.1794	73.77	-101.68	-27.91	-79.41	22.53	-28.97	-50.44	peak
3	0.221	69.84	-101.75	-31.91	-83.41	20.71	-30.79	-52.62	peak
4	0.253	68.14	-101.8	-33.66	-85.16	19.54	-31.96	-53.20	peak
5	0.3163	65.2	-101.87	-36.67	-88.17	17.6	-33.9	-54.27	peak
6	0.3662	62.58	-101.93	-39.35	-90.85	16.33	-35.17	-55.68	peak

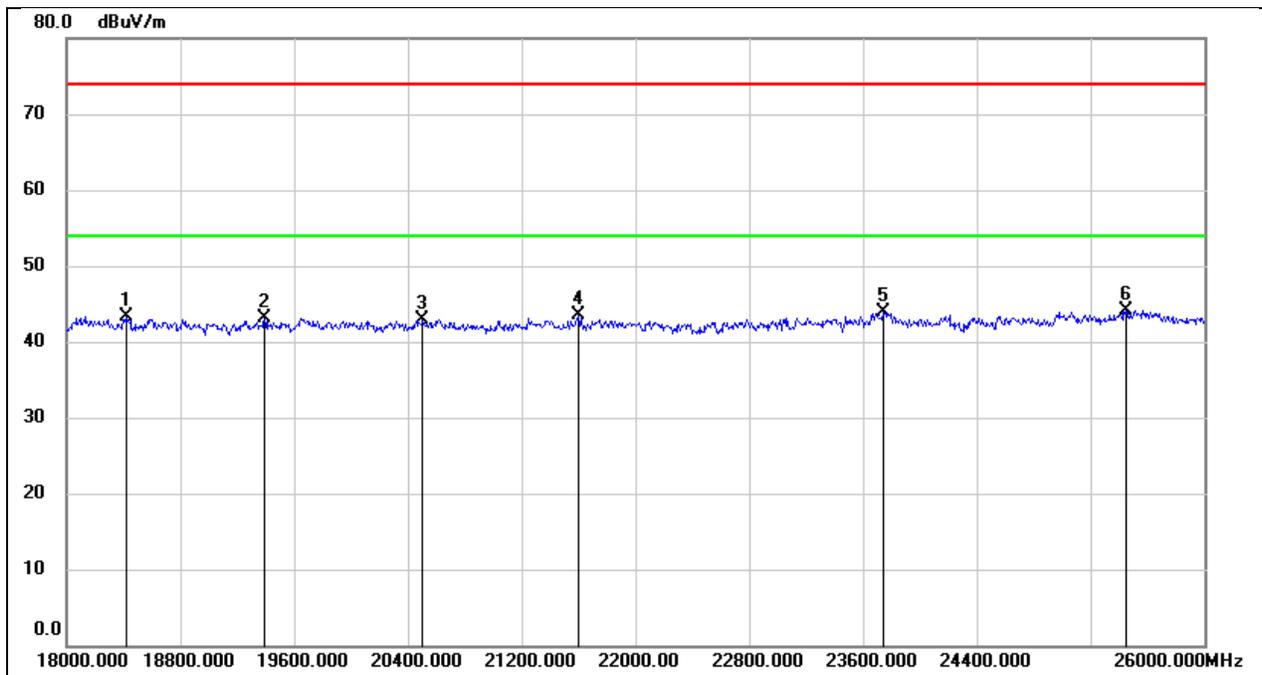
Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Result (dBuA/m)	Limit (dBuV/m)	Limit (dBuA/m)	Margin (dB)	Remark
1	0.5211	66.1	-62.07	4.03	-47.47	33.27	-18.23	-29.24	peak
2	0.7993	64.22	-62.15	2.07	-49.43	29.55	-21.95	-27.48	peak
3	1.5564	59.68	-62.02	-2.34	-53.84	23.76	-27.74	-26.10	peak
4	2.0939	58.39	-61.79	-3.4	-54.90	29.54	-21.96	-32.94	peak
5	3.71	55.7	-61.41	-5.71	-57.21	29.54	-21.96	-35.25	peak
6	7.3361	54.58	-61.17	-6.59	-58.09	29.54	-21.96	-36.13	peak

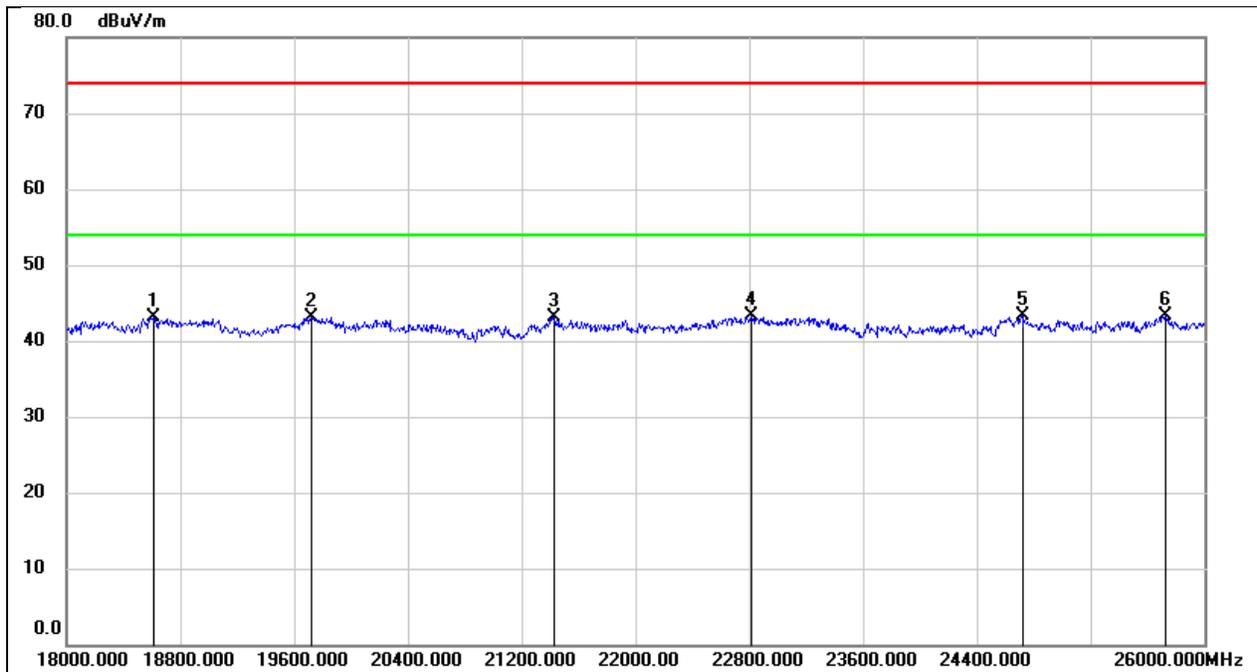
8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18416.000	48.73	-5.35	43.38	74.00	-30.62	peak
2	19392.000	48.62	-5.57	43.05	74.00	-30.95	peak
3	20504.000	48.21	-5.35	42.86	74.00	-31.14	peak
4	21600.000	48.02	-4.54	43.48	74.00	-30.52	peak
5	23744.000	47.15	-3.20	43.95	74.00	-30.05	peak
6	25448.000	45.83	-1.76	44.07	74.00	-29.93	peak

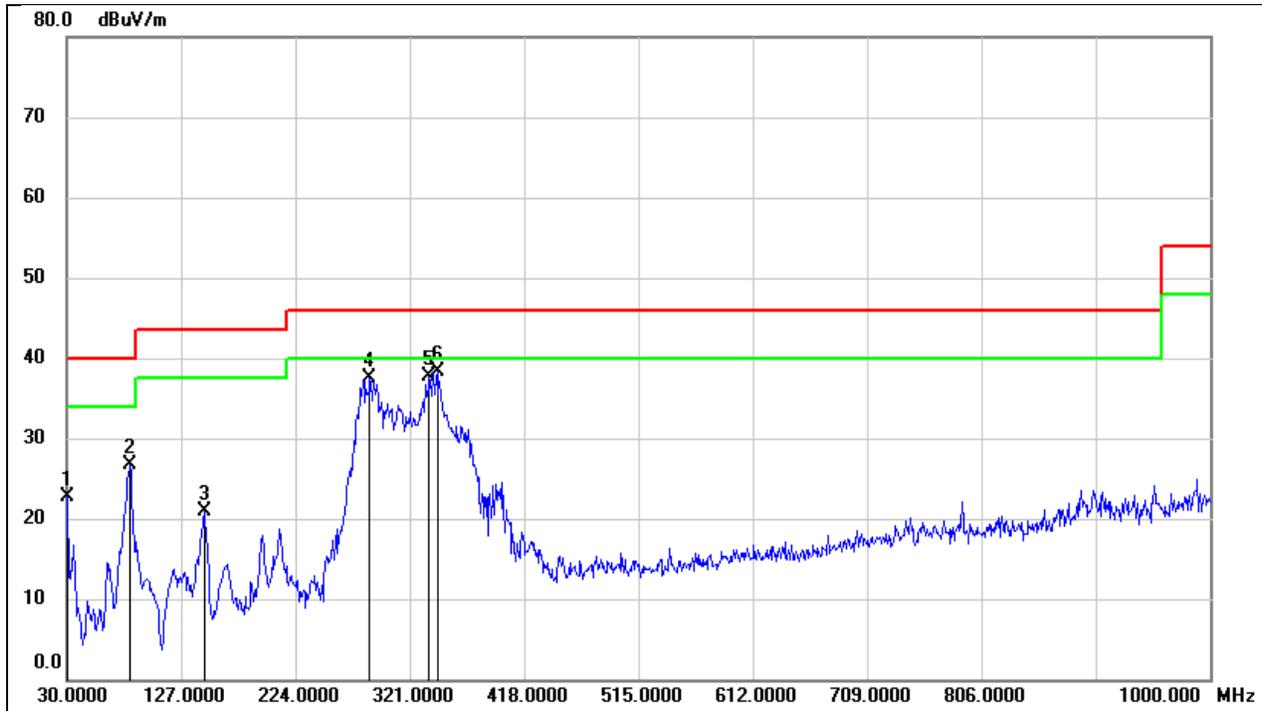
Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



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	19720.000	48.42	-5.28	43.14	74.00	-30.86	peak
3	21432.000	47.74	-4.71	43.03	74.00	-30.97	peak
4	22816.000	46.93	-3.63	43.30	74.00	-30.70	peak
5	24720.000	45.72	-2.33	43.39	74.00	-30.61	peak
6	25728.000	44.11	-0.72	43.39	74.00	-30.61	peak

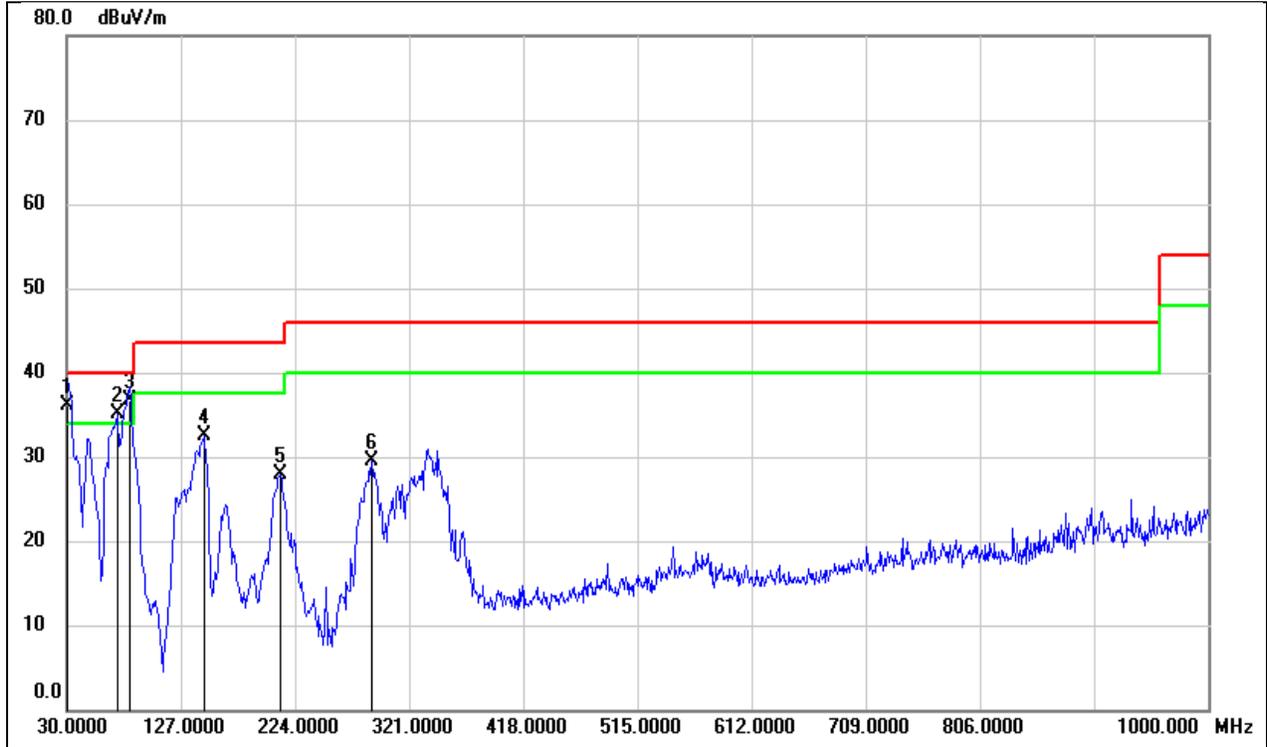
8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	40.50	-17.84	22.66	40.00	-17.34	QP
2	83.3500	48.09	-21.32	26.77	40.00	-13.23	QP
3	146.4000	38.96	-18.08	20.88	43.50	-22.62	QP
4	287.0500	53.29	-15.71	37.58	46.00	-8.42	QP
5	337.4900	50.75	-13.09	37.66	46.00	-8.34	QP
6	344.2800	51.03	-12.77	38.26	46.00	-7.74	QP

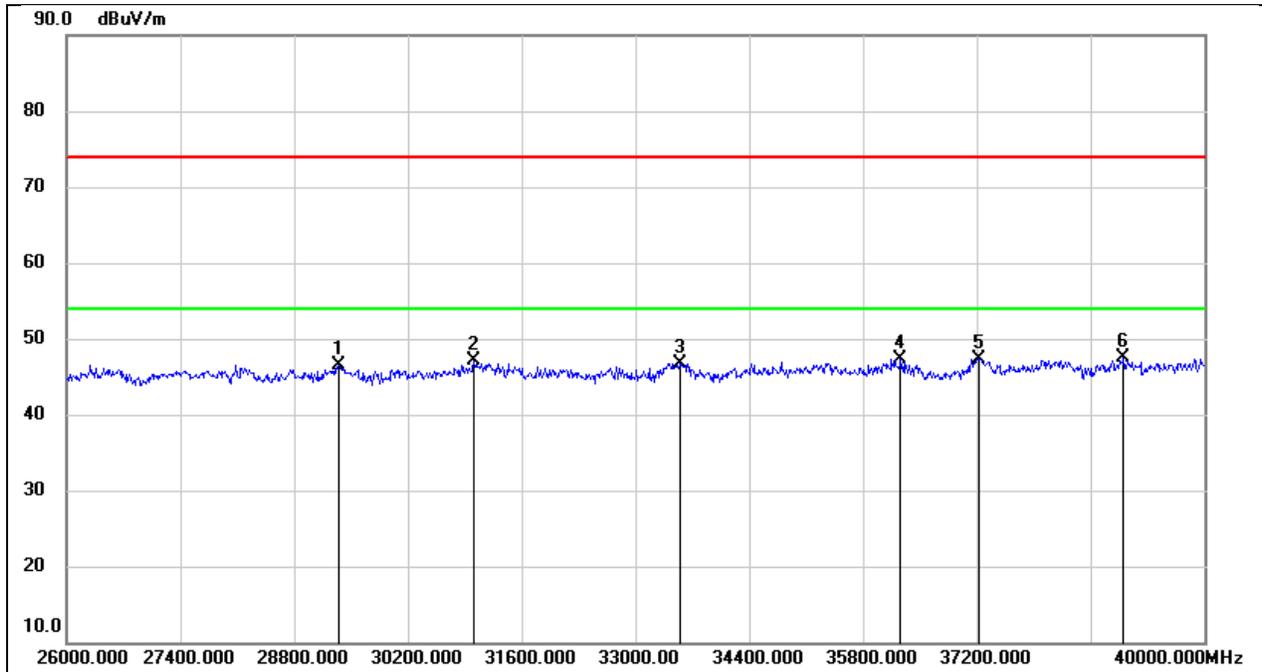
Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	54.04	-17.84	36.20	40.00	-3.80	QP
2	72.6800	55.60	-20.47	35.13	40.00	-4.87	QP
3	83.3500	58.02	-21.32	36.70	40.00	-3.30	QP
4	146.4000	50.50	-18.08	32.42	43.50	-11.08	QP
5	211.3900	44.20	-16.39	27.81	43.50	-15.69	QP
6	288.9900	45.00	-15.59	29.41	46.00	-16.59	QP

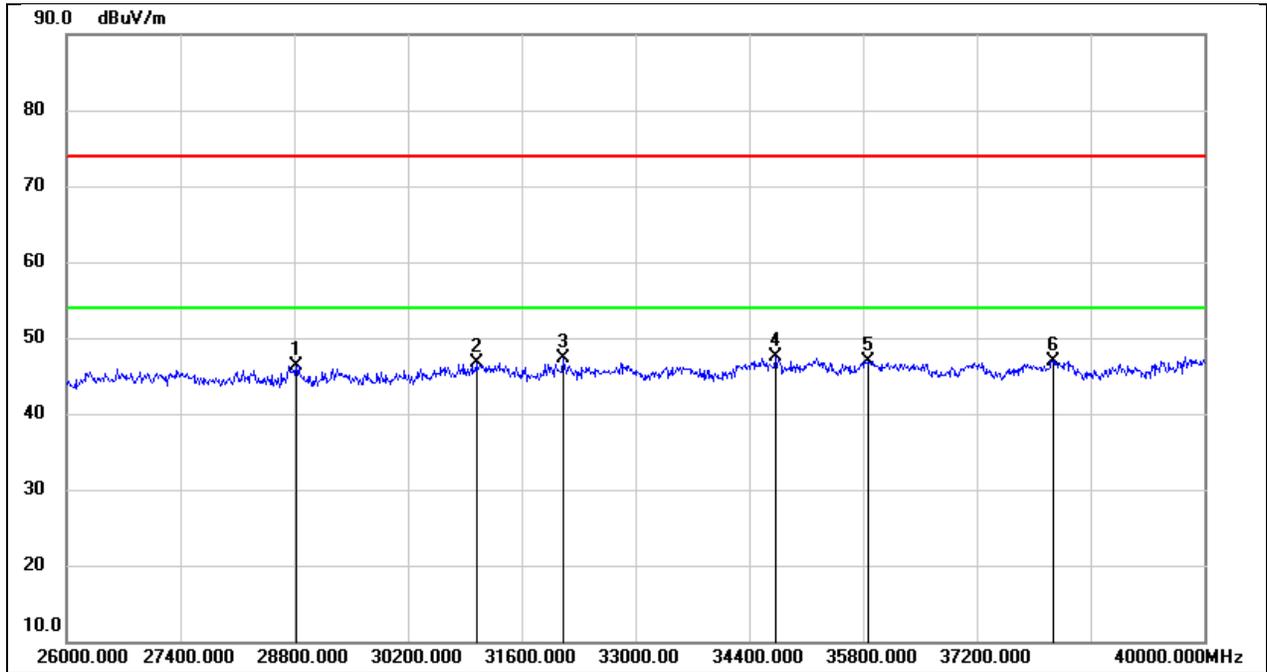
8.7. SPURIOUS EMISSIONS (26 GHZ ~ 40 GHZ)

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Horizontal	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	29346.000	47.38	-0.91	46.47	74.00	-27.53	peak
2	31012.000	47.83	-0.71	47.12	74.00	-26.88	peak
3	33546.000	46.25	0.53	46.78	74.00	-27.22	peak
4	36262.000	44.10	3.28	47.38	74.00	-26.62	peak
5	37228.000	44.23	3.14	47.37	74.00	-26.63	peak
6	39006.000	43.04	4.37	47.41	74.00	-26.59	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	5730.12
Polarity:	Vertical	Test Voltage:	DC 3.6 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	28828.000	47.13	-0.79	46.34	74.00	-27.66	peak
2	31040.000	47.45	-0.72	46.73	74.00	-27.27	peak
3	32104.000	48.99	-1.75	47.24	74.00	-26.76	peak
4	34722.000	45.94	1.48	47.42	74.00	-26.58	peak
5	35856.000	43.25	3.73	46.98	74.00	-27.02	peak
6	38138.000	43.39	3.59	46.98	74.00	-27.02	peak

9. TEST DATA

9.1. APPENDIX A: MAXIMUM CONDUCTED AVERAGE OUTPUT POWER

9.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
SRD 1.4MHZ	Ant1	5728.5	21.24	≤30	PASS
		5786.5	21.20	≤30	PASS
		5844.5	21.32	≤30	PASS
SRD 1.4MHZ CA	Ant1	5730.12	21.86	≤30	PASS
		5788.12	21.50	≤30	PASS
		5846.12	21.55	≤30	PASS
SRD 3MHZ	Ant1	5730.5	21.23	≤30	PASS
		5787.5	21.32	≤30	PASS
		5844.5	21.61	≤30	PASS

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	Limit[dBm]	Verdict
SRD 10MHz	Ant1	5732.5	11.74	≤30.00	PASS
		5787.5	11.75	≤30.00	PASS
		5844.5	11.14	≤30.00	PASS
SRD 20MHz	Ant1	5735.5	11.32	≤30.00	PASS
		5787.5	11.81	≤30.00	PASS
		5839.5	11.65	≤30.00	PASS

9.2. APPENDIX B: MAXIMUM POWER SPECTRAL DENSITY

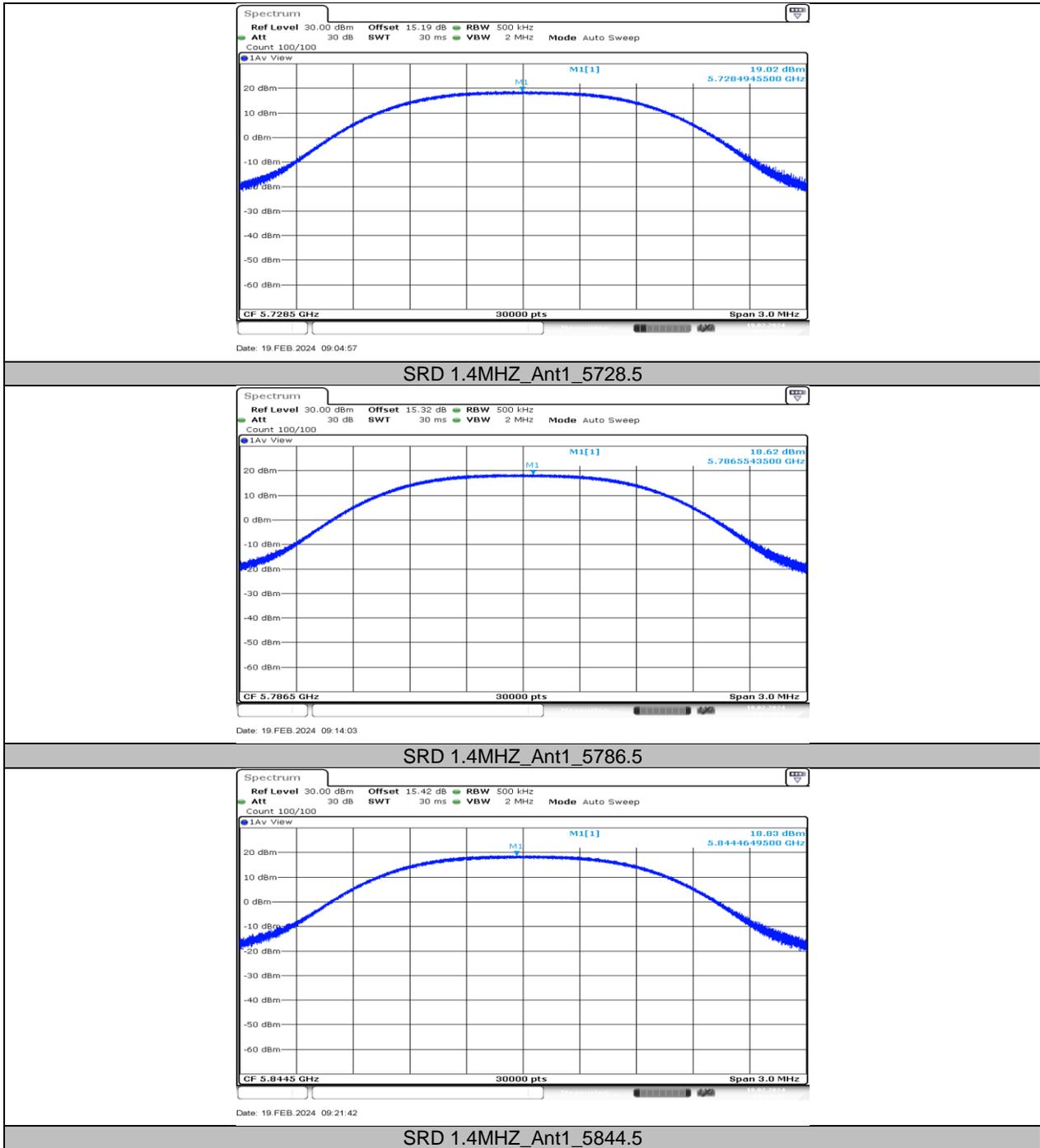
9.2.1. Test Result

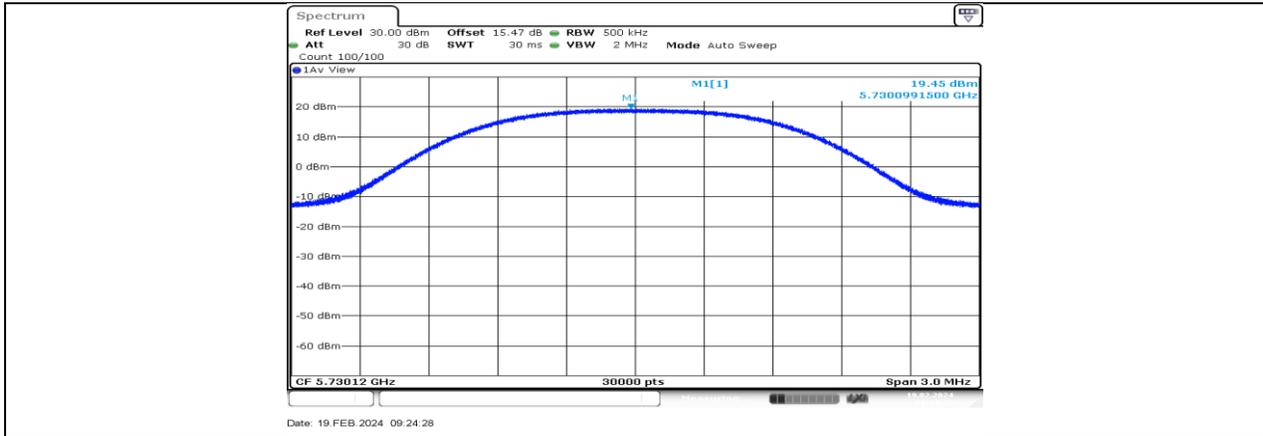
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
SRD 1.4MHZ	Ant1	5728.5	19.02	≤30.00	PASS
		5786.5	18.62	≤30.00	PASS
		5844.5	18.83	≤30.00	PASS
SRD 1.4MHZ CA	Ant1	5730.12	19.45	≤30.00	PASS
		5788.12	18.89	≤30.00	PASS
		5846.12	19.03	≤30.00	PASS
SRD 3MHZ	Ant1	5730.5	16.95	≤30.00	PASS
		5787.5	16.99	≤30.00	PASS
		5844.5	17.15	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	Verdict
SRD 10MHz	Ant1	5732.5	0.15	≤30.00	PASS
		5787.5	0.15	≤30.00	PASS
		5844.5	-0.22	≤30.00	PASS
SRD 20MHz	Ant1	5735.5	-3.09	≤30.00	PASS
		5787.5	-2.16	≤30.00	PASS
		5839.5	-2.57	≤30.00	PASS

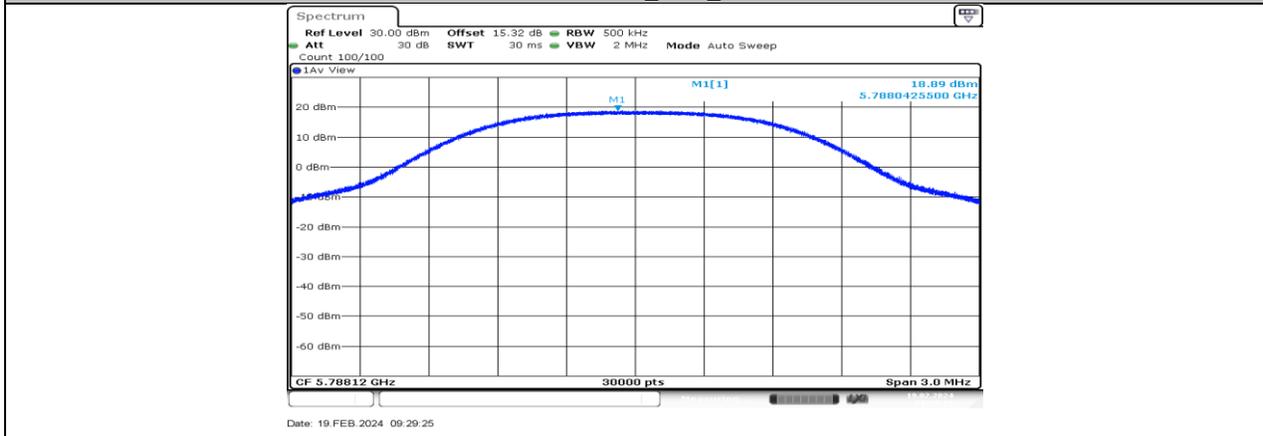
Note: The Result and Limit Unit is dBm/500 kHz in the band 5.725 ~ 5.85 GHz.

9.2.2. Test Graphs

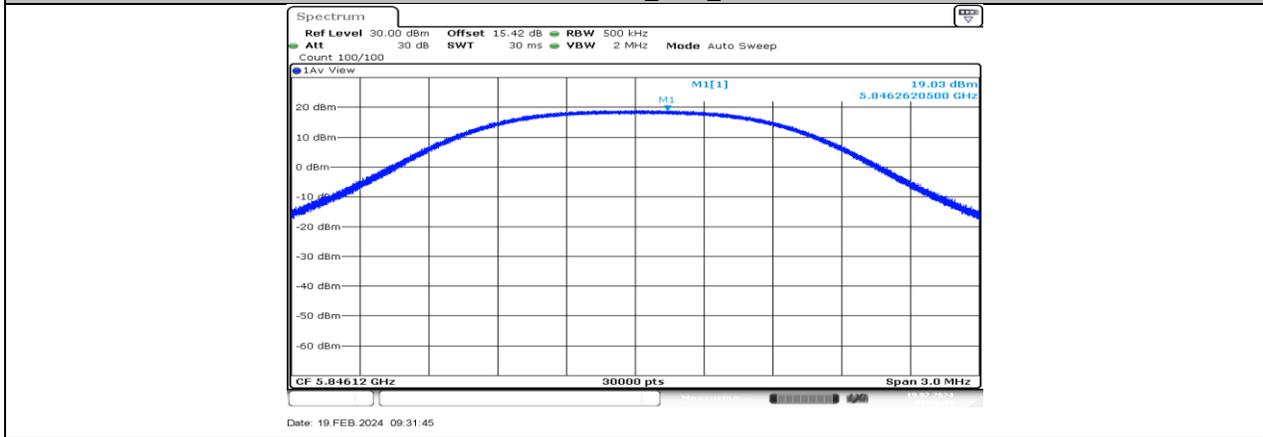




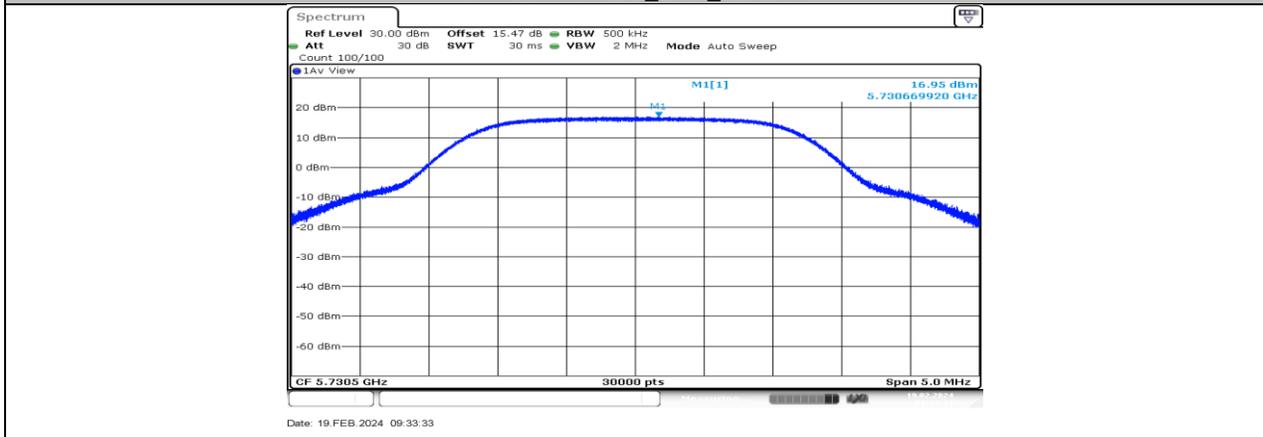
SRD 1.4MHz CA_Ant1_5730.12

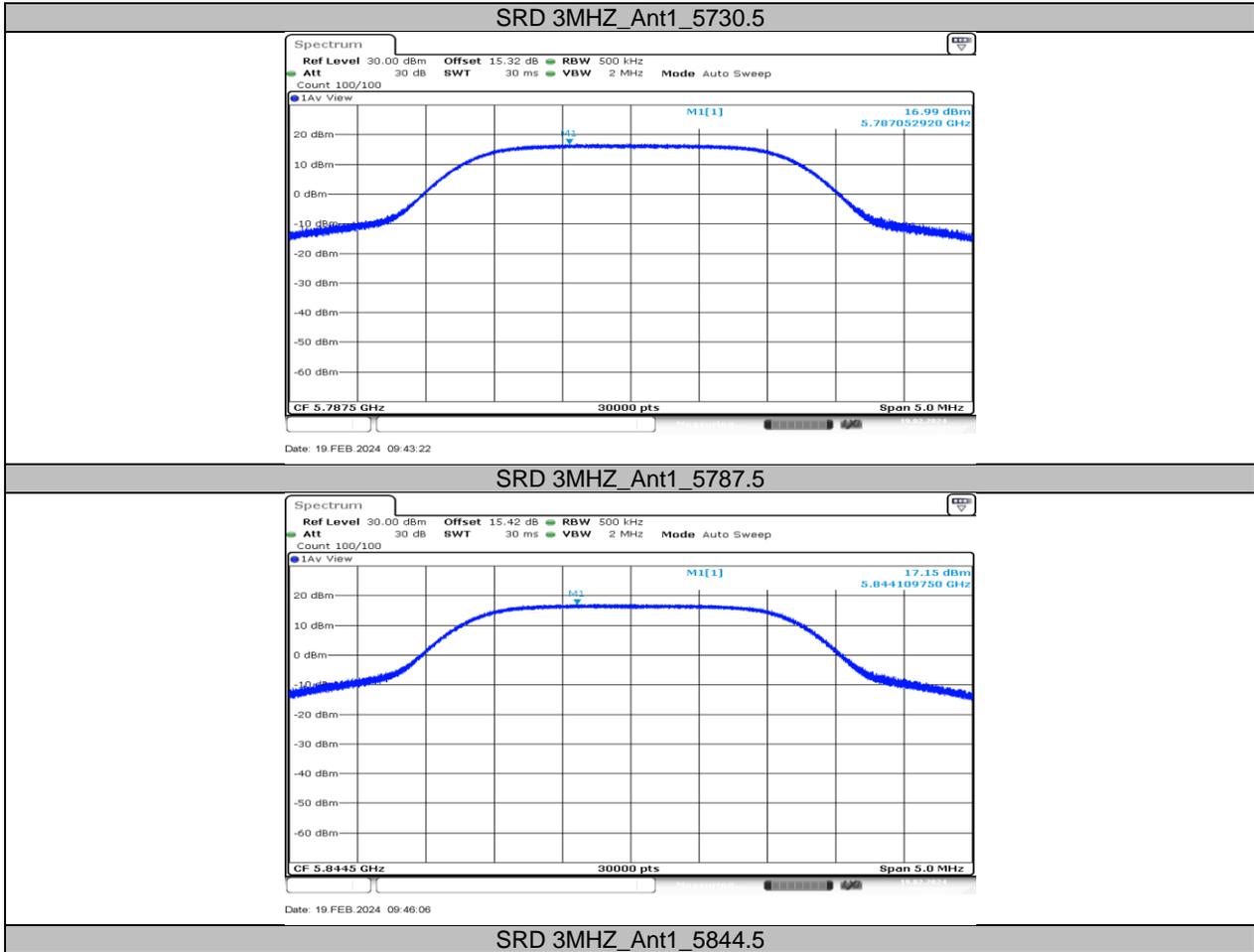


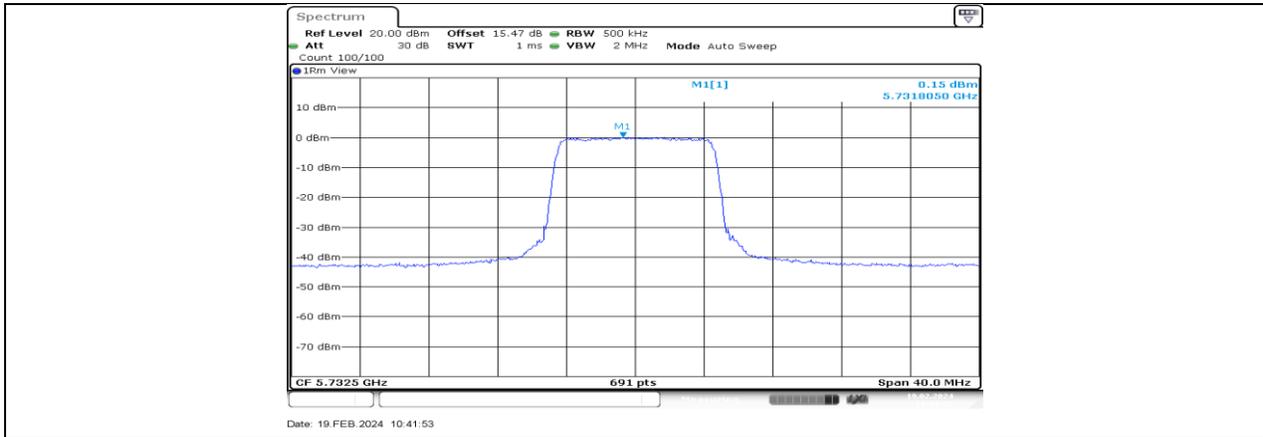
SRD 1.4MHz CA_Ant1_5788.12



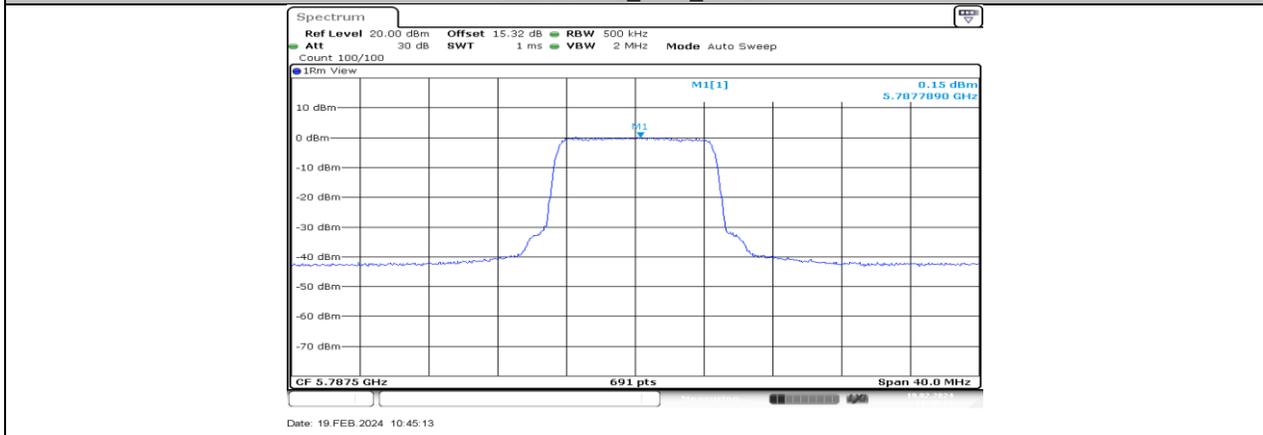
SRD 1.4MHz CA_Ant1_5846.12







SRD 10MHz_Ant1_5732.5



SRD 10MHz_Ant1_5787.5



SRD 10MHz_Ant1_5844.5



SRD 20MHz_Ant1_5735.5



SRD 20MHz_Ant1_5787.5



SRD 20MHz_Ant1_5839.5

9.3. APPENDIX C: DUTY CYCLE

9.3.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
SRD 1.4MHZ	50.00	50.00	1.0000	100.00	0.00	0.02	0.01
SRD 1.4MHZ CA	50.00	50.00	1.0000	100.00	0.00	0.02	0.01
SRD 3M	50.00	50.00	1.0000	100.00	0.00	0.02	0.01

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
SRD 10MHZ	30.00	30.00	1.0000	100.00	0.00	0.03	0.01
SRD 20MHZ	30.00	30.00	1.0000	100.00	0.00	0.03	0.01

Note:

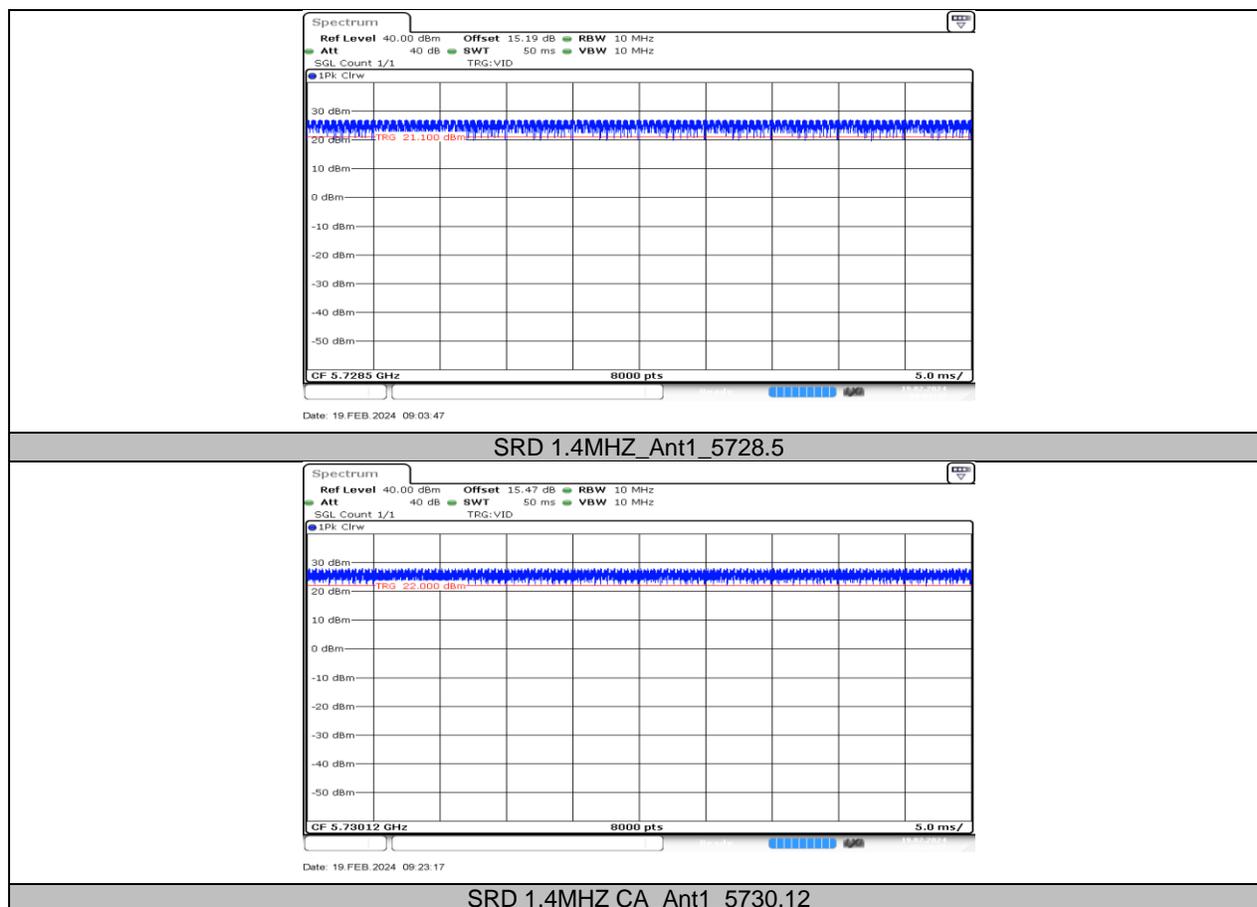
Duty Cycle Correction Factor=10log (1/x).

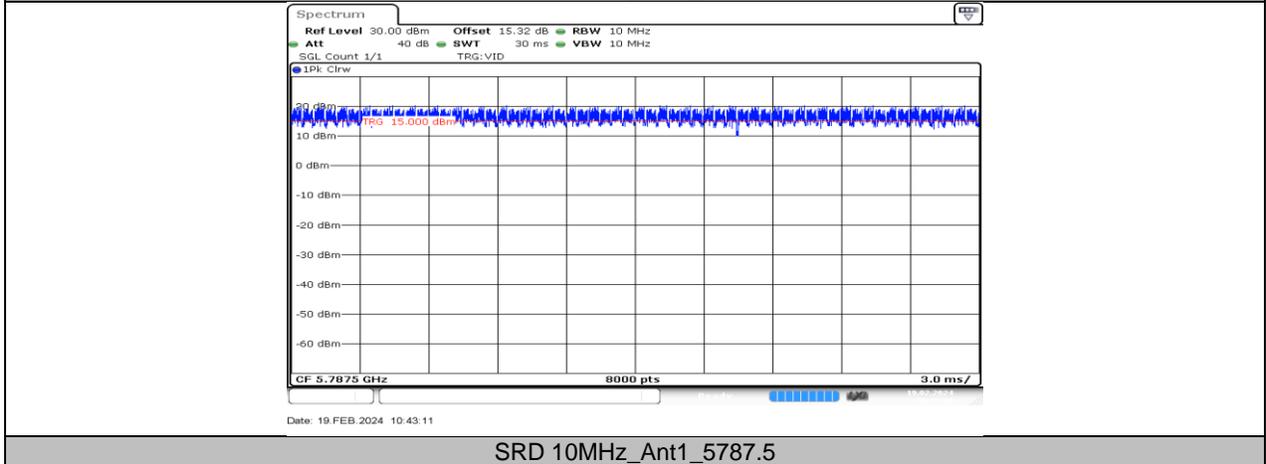
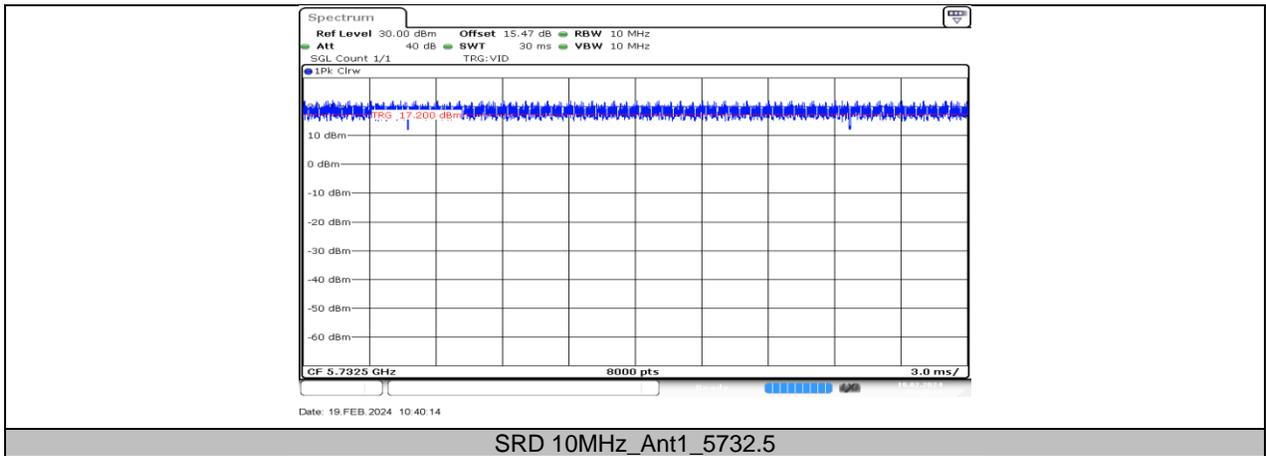
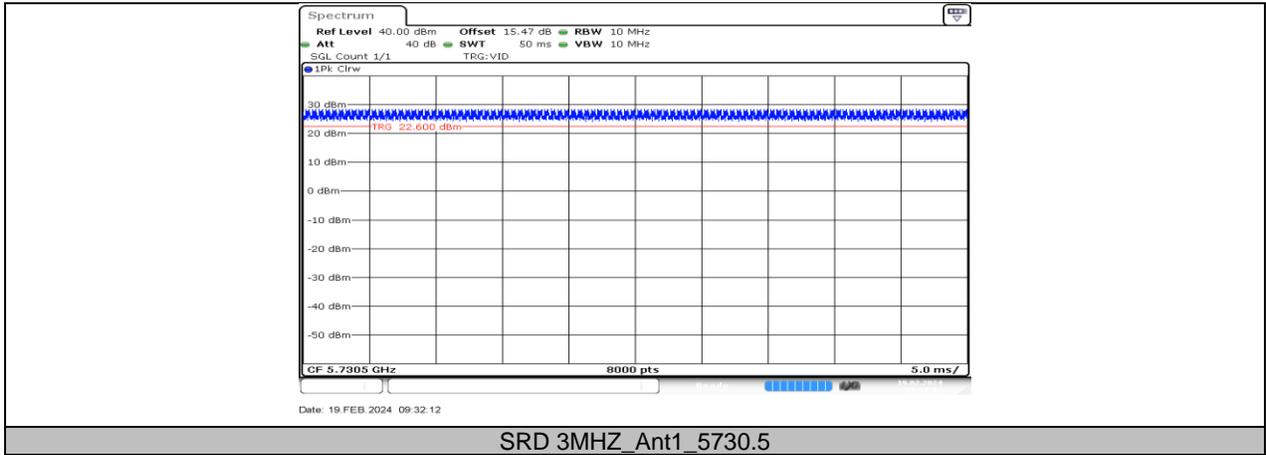
Where: x is Duty Cycle (Linear)

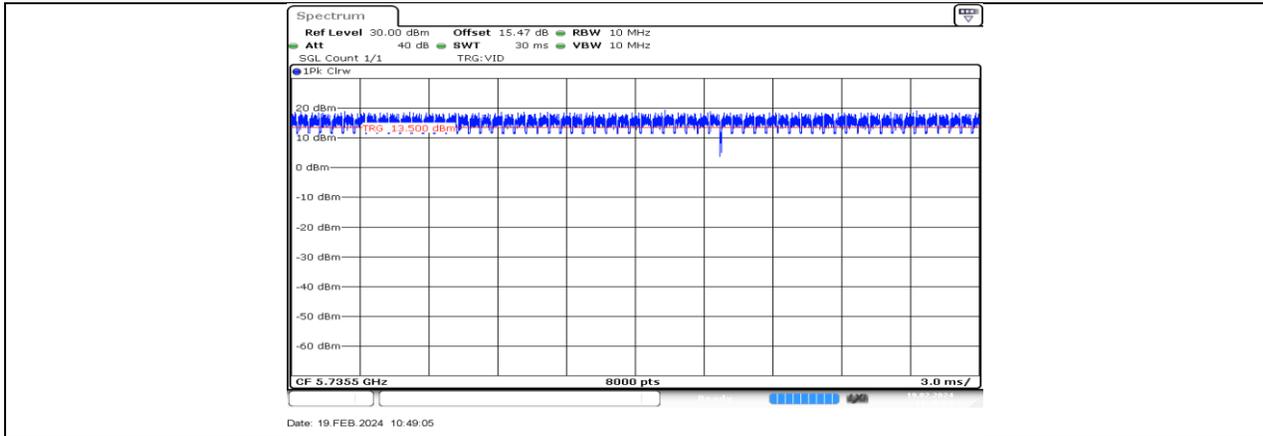
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

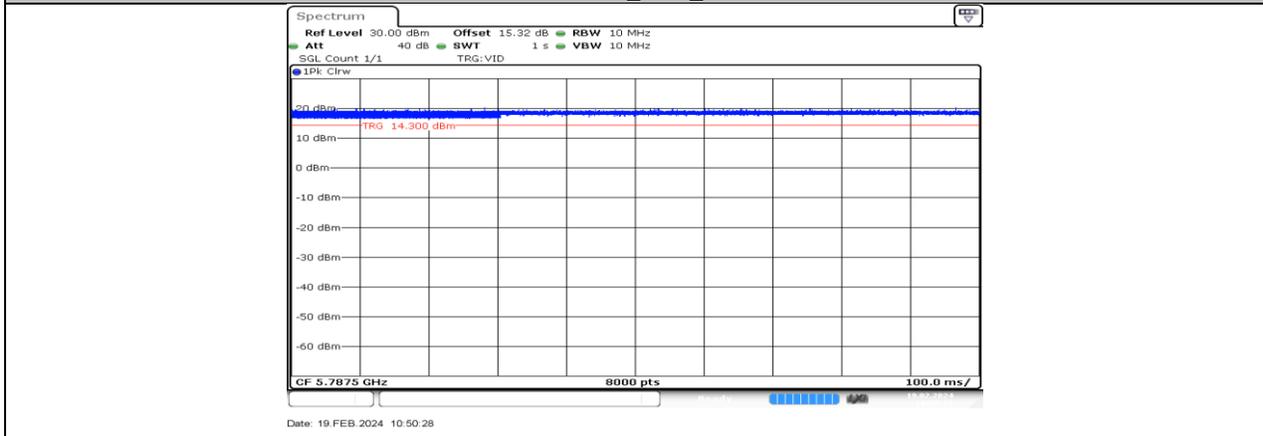
9.3.2. Test Graphs







SRD 20MHz_Ant1_5735.5



SRD 20MHz_Ant1_5787.5

END OF REPORT