

TEST REPORT

Application No.: SZEM1912021066CR
Applicant: SZ DJI TECHNOLOGY CO., LTD
Address of Applicant: 14th floor, West Wing, Skyworth Semiconductor Design Building NO. 18
 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China
Manufacturer: SZ DJI TECHNOLOGY CO., LTD
Address of Manufacturer: 14th floor, West Wing, Skyworth Semiconductor Design Building NO. 18
 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: C5
Model No.: RC231
Trade mark: DJI
FCC ID: SS3-RC2311911
IC: 11805A-RC2311911
Standard(s) : 47 CFR Part 15, Subpart E 15.407
 RSS-247 Issue 2, February 2017
 RSS-Gen Issue 5, March 2019
Date of Receipt: 2019-12-10
Date of Test: 2019-12-15 to 2020-01-04
Date of Issue: 2020-01-06

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Version	Chapter	Date	Modifier	Remark
01		2020-01-06		Original

Authorized for issue by:			
			
		Calvin Weng /Project Engineer	
			
		Eric Fu /Reviewer	

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	N/A	47 CFR Part 15, Subpart C 15.203; RSS-Gen Section 6.8	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	N/A	47 CFR Part 15, Subpart E 15.407 (c); RSS-247 Section 6.4(a)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, 15.207 15.407b(6); RSS-Gen Section 8.8	Pass
Duty Cycle	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	ANSI C63.10 Section 12.2	ANSI C63.10 Section 12.2	Pass
99% Bandwidth	RSS-247 Issue 2	ANSI C63.10 Section 6.9.3	RSS-Gen Section 6.7	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	ANSI C63.10 Section 11.8	47 CFR Part 15, Subpart E 15.407 (e); RSS-247 Section 6.2.4	Pass
Maximum Conducted Output Power	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	ANSI C63.10 Section 11.9.2	47 CFR Part 15, Subpart E 15.407 (a); RSS-247 Section 6.2	Pass
Power Spectral Density	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	ANSI C63.10 Section 11.10	47 CFR Part 15, Subpart E 15.407 (a); RSS-247 Section 6.2	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	ANSI C63.10 Section 12.7.3	47 CFR Part 15, Subpart E 15.209 & 15.407(b); RSS-247 Section 3.3 & RSS-Gen Section 8.10	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart E 15.407 RSS-247 Issue 2	ANSI C63.10 Section 12.7.3	47 CFR Part 15, 15.209 & 15.407(b); RSS-247 Section 6.2 & RSS-Gen Section 8.9	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g) & RSS-Gen Section 6.11	Pass

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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC3.6V by Li-polymer battery(2500mAh*2)
Cable:	USB type C to C cable: 13cm unshielded cable without ferrite core USB type C to lightning cable: 13cm unshielded cable without ferrite core USB type C to Micro USB cable: 13cm unshielded cable without ferrite core USB type A to C cable: 0.5m shielded cable without ferrite core Power Adapter cable: 1m unshielded cable without ferrite core
Operation Frequency:	1.4MHz BW: 5728.5MHz ~ 5844.5MHz; 1.4MHz BW CA: 5730.12MHz ~ 5846.12MHz; 3MHz BW: 5730.5MHz ~ 5844.5MHz; 10MHz BW: 5732.5MHz ~ 5844.5MHz; 20MHz BW: 5735.5MHz ~ 5839.5MHz
Number of Channels:	1.4MHz BW: 59; 1.4MHz BW CA: 59; 3MHz BW: 39; 10MHz BW: 113; 20MHz BW: 105
Modulation Type:	OFDM
Channel Spacing:	1.4MHz BW: 2MHz; 1.4MHz BW CA: 2MHz; 3MHz BW: 3MHz; 10MHz BW: 1MHz; 20MHz BW: 1MHz
Antenna Gain:	4dBi
Antenna Type:	PCB antenna

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

Note: The highlight frequencies are chosen to do all of the test.

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

Note: The highlight frequencies are chosen to do all of the test.

Channel List for 3MHz BW							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5730.5	11	5760.5	31	5790.5	41	5820.5
2	5733.5	12	5763.5	32	5793.5	42	5823.5
3	5736.5	13	5766.5	33	5796.5	43	5826.5
4	5739.5	14	5769.5	34	5799.5	44	5829.5
5	5742.5	15	5772.5	35	5802.5	45	5832.5
6	5745.5	16	5775.5	36	5805.5	46	5835.5
7	5748.5	17	5778.5	37	5808.5	47	5838.5
8	5751.5	18	5781.5	38	5811.5	48	5841.5
9	5754.5	19	5784.5	39	5814.5	49	5844.5
10	5757.5	20	5787.5	40	5817.5		

Note: The highlight frequencies are chosen to do all of the test.

Channel List for 10MHz BW							
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	
Note: The highlight frequencies are chosen to do all of the test.						

Channel List for 20MHz BW							
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		
Note: The highlight frequencies are chosen to do all of the test.							





4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
10	Temperature test	$\pm 1^\circ\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$



4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

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

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

- **VCCI**

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

- **FCC –Designation Number: CN1178**

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

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

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

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CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

Duty cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	NBM-550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	NBM-550/EHP-50F	EMC2143	2018-02-07	2020-02-06



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Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Maximum Conducted Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2019-04-12	2020-04-11
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Power Spectral Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12



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DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	NBM-550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

RE in Chamber

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26



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(26-3000MHz)					
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203; RSS-Gen Section 6.8

6.1.2 Conclusion

Standard Requirement:

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4dBi.

Antenna location: Refer to Internal photos.





6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c);RSS-247 Section 6.4(a)

6.2.2 Conclusion

standard Requirement:

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

EUT Details:

RF chip (iE1000) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, 15.207 15.407b(6);RSS-Gen Section 8.8
Test Method: ANSI C63.10 (2013) Section 6.2
Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

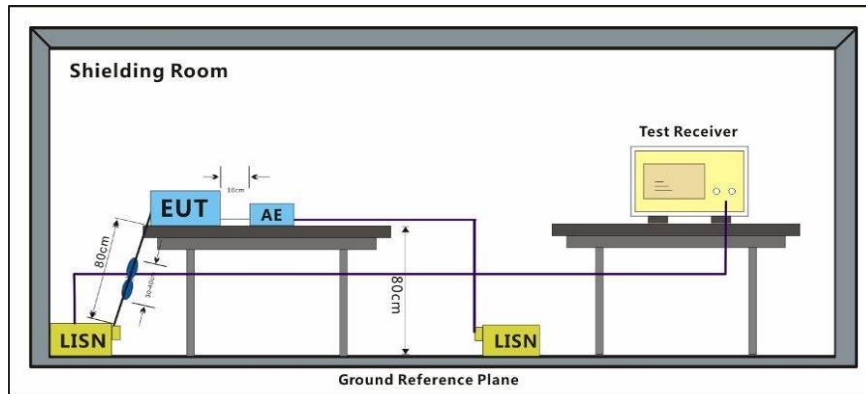
*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 53.9 % RH Atmospheric Pressure: 1015 mbar
Test mode d: Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with modulation.

7.1.2 Test Setup Diagram

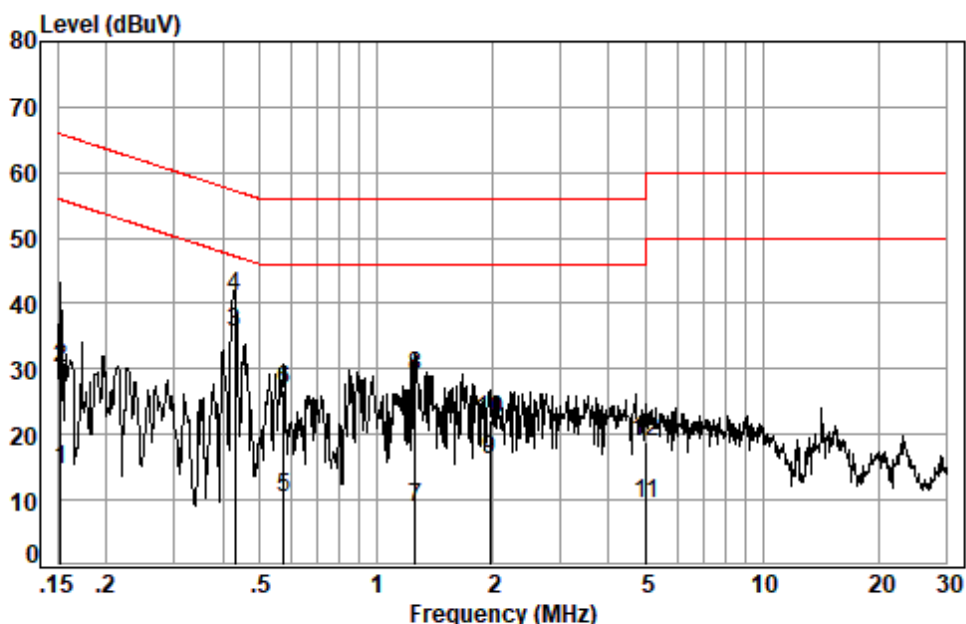


7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

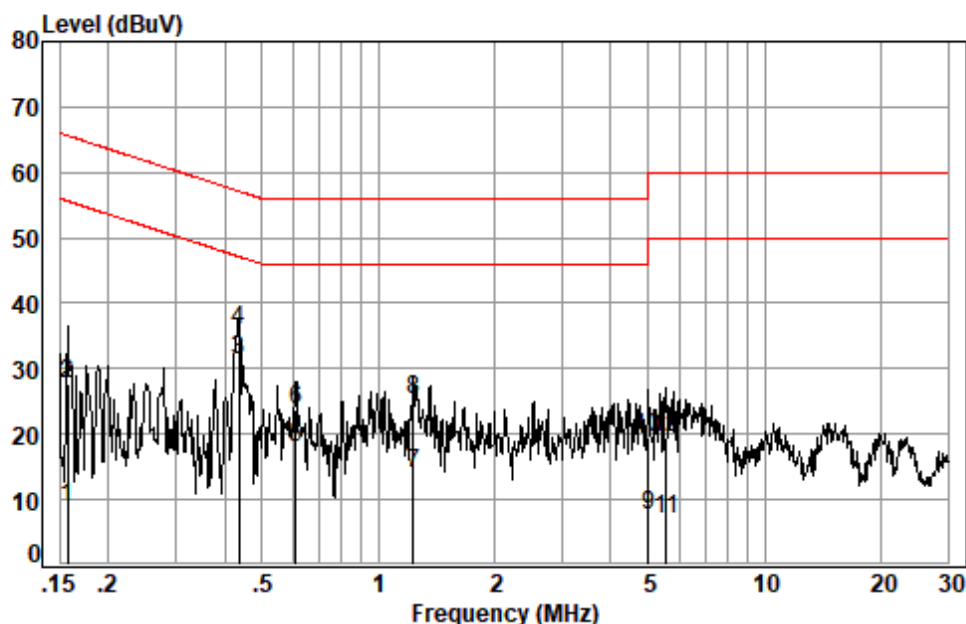
Mode:d; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 21066CR
Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.01	9.59	5.10	14.70	55.87	-41.17	Average
2	0.1524	0.01	9.59	20.57	30.17	65.87	-35.70	QP
3	0.4305	0.05	9.59	25.94	35.58	47.24	-11.66	Average
4	0.4305	0.05	9.59	31.55	41.19	57.24	-16.05	QP
5	0.5762	0.07	9.60	0.79	10.46	46.00	-35.54	Average
6	0.5762	0.07	9.60	17.00	26.67	56.00	-29.33	QP
7	1.2621	0.11	9.60	-1.03	8.68	46.00	-37.32	Average
8	1.2621	0.11	9.60	19.20	28.91	56.00	-27.09	QP
9	1.9697	0.16	9.62	6.39	16.17	46.00	-29.83	Average
10	1.9697	0.16	9.62	12.31	22.09	56.00	-33.91	QP
11	5.0046	0.17	9.67	-0.41	9.43	50.00	-40.57	Average
12	5.0046	0.17	9.67	9.07	18.91	60.00	-41.09	QP

Mode:d; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 21066CR
Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.01	9.55	-0.67	8.89	55.60	-46.71	Average
2	0.1573	0.01	9.55	18.09	27.65	65.60	-37.95	QP
3	0.4351	0.05	9.55	21.71	31.31	47.15	-15.84	Average
4	0.4351	0.05	9.55	26.38	35.98	57.15	-21.17	QP
5	0.6108	0.07	9.55	8.39	18.01	46.00	-27.99	Average
6	0.6108	0.07	9.55	14.24	23.86	56.00	-32.14	QP
7	1.2357	0.11	9.55	4.37	14.03	46.00	-31.97	Average
8	1.2357	0.11	9.55	15.52	25.18	56.00	-30.82	QP
9	5.0046	0.17	9.63	-2.07	7.73	50.00	-42.27	Average
10	5.0046	0.17	9.63	9.75	19.55	60.00	-40.45	QP
11	5.5641	0.17	9.65	-2.68	7.14	50.00	-42.86	Average
12	5.5641	0.17	9.65	9.60	19.42	60.00	-40.58	QP

7.2 Duty Cycle

Test Requirement ANSI C63.10 Section 12.2

Test Method: ANSI C63.10 Section 12.2

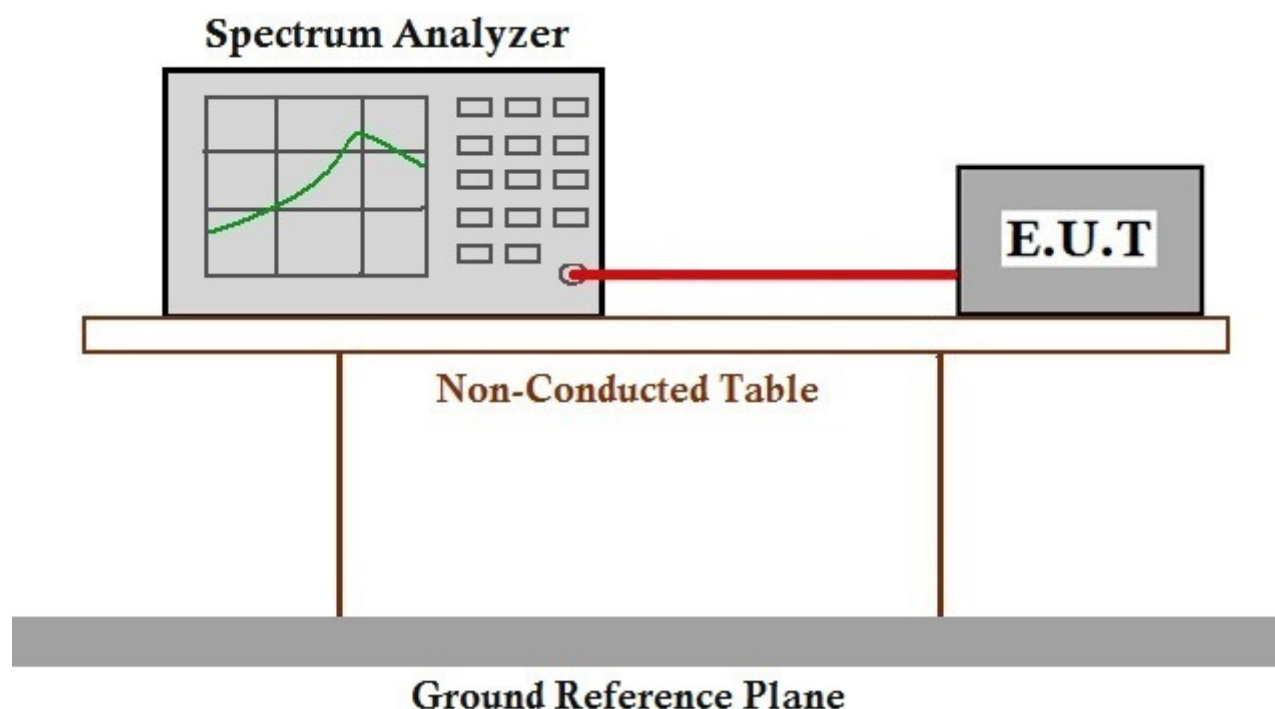
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % RH Atmospheric Pressure: 1015 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix RSS247

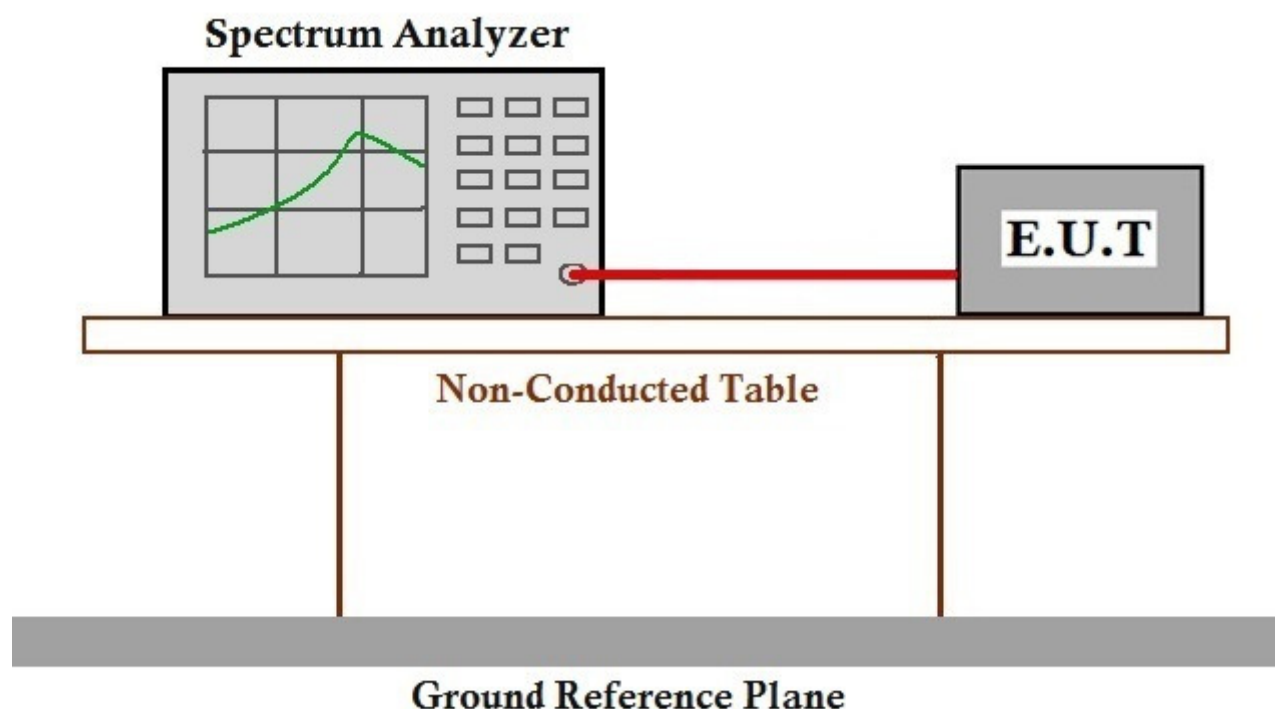
7.3 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1015 mbar
Test mode c:TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix RSS247

7.4 Minimum 6dB Bandwidth

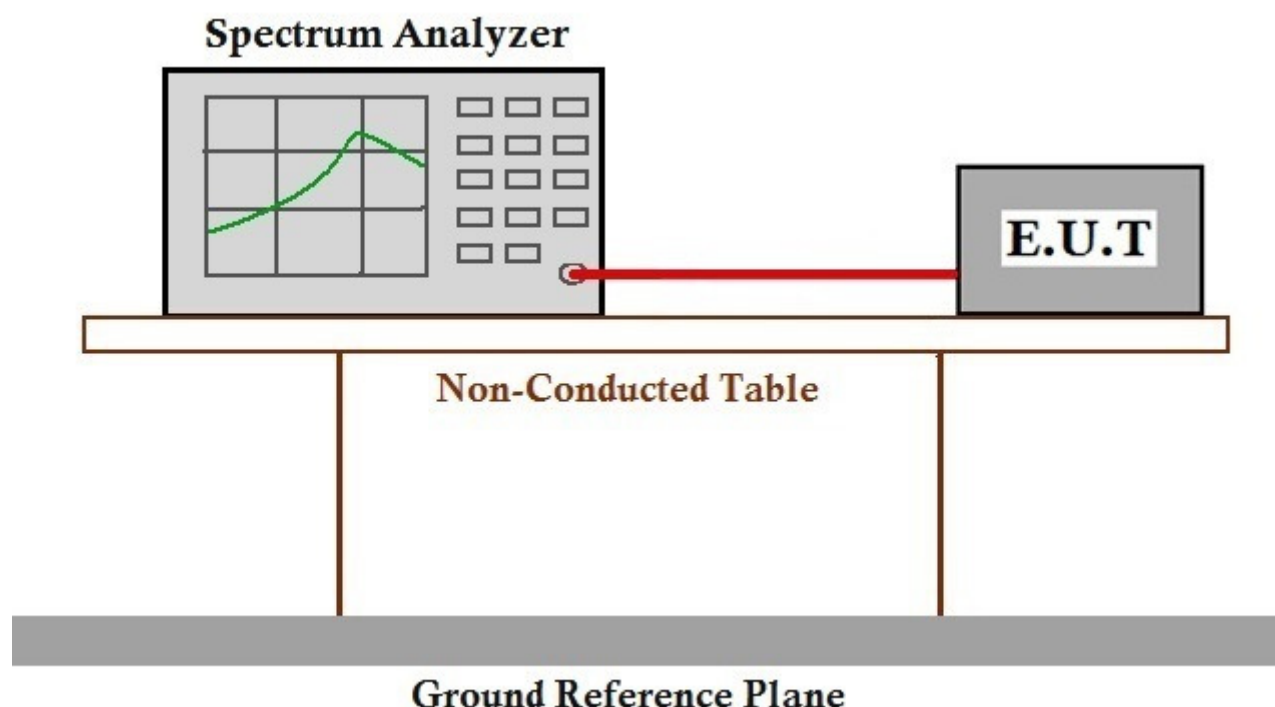
Test Requirement 47 CFR Part 15, Subpart E 15.407 (e);RSS-247 Section 6.2.4
Test Method: KDB 789033 D02 II C 2
Limit: ≥ 500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % RH Atmospheric Pressure: 1015 mbar
Test mode c:TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix RSS247

7.5 Maximum Conducted Output Power

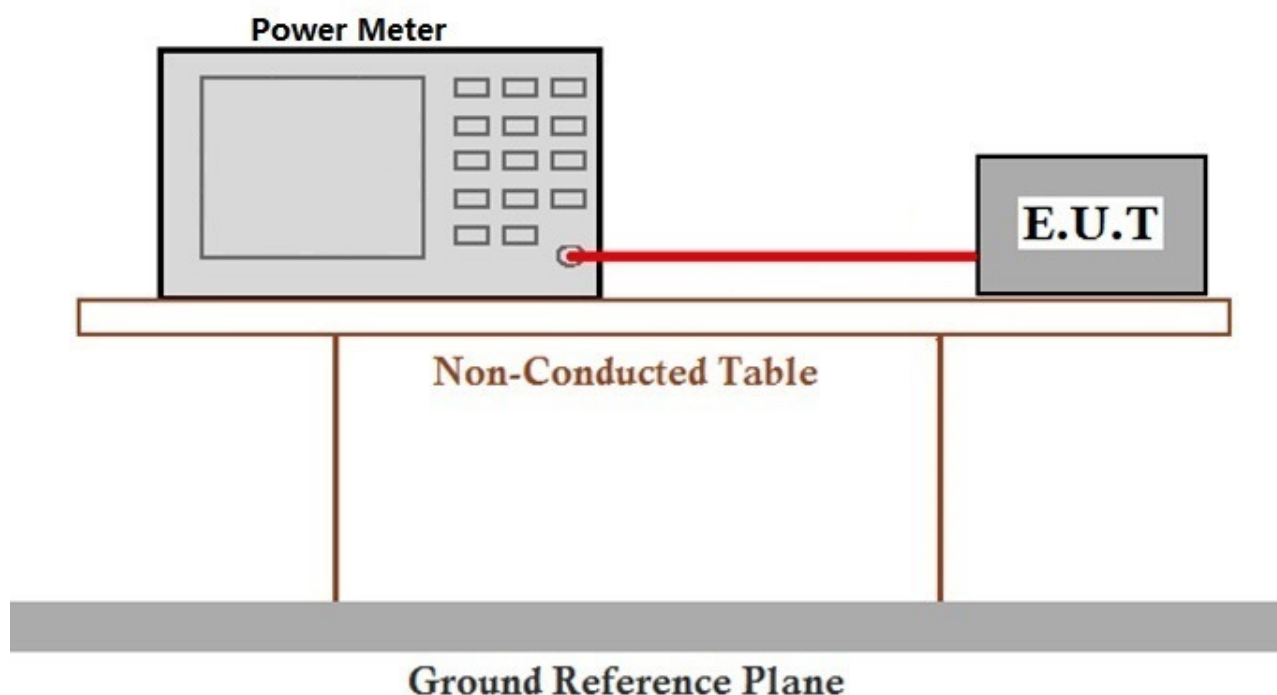
Test Requirement: 47 CFR Part 15, Subpart E 15.407 (a); RSS-247 Section 6.2
Test Method: KDB 789033 D02 II E
Limit:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. $\leq$ 200mW(23dBm) or $10 + 10\log B^*$
5250-5350	Conducted power $\leq$ 250mW(24dBm) or $11\text{dBm} + 10\log B^*$ e.i.r.p. $\leq$ 1W(30dBm) or $17 + 10\log B^*$
5470-5725	Conducted power $\leq$ 250mW(24dBm) or $11\text{dBm} + 10\log B^*$ e.i.r.p. $\leq$ 1W(30dBm) or $17 + 10\log B^*$
5725-5850	Conducted power $\leq$ 1W(30dBm)
Remark:	* Where B is the 99% emission bandwidth in MHz.

7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 23.4 °C Humidity: 43.9 % RH Atmospheric Pressure: 1015 mbar
Test mode: c:TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix RSS247

7.6 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a); RSS-247 Section 6.2

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. spectral density $\leq 10\text{dBm/MHz}$
5250-5350	$\leq 11\text{dBm/MHz}$
5470-5725	$\leq 11\text{dBm/MHz}$
5725-5850	$\leq 30\text{dBm/500kHz}$

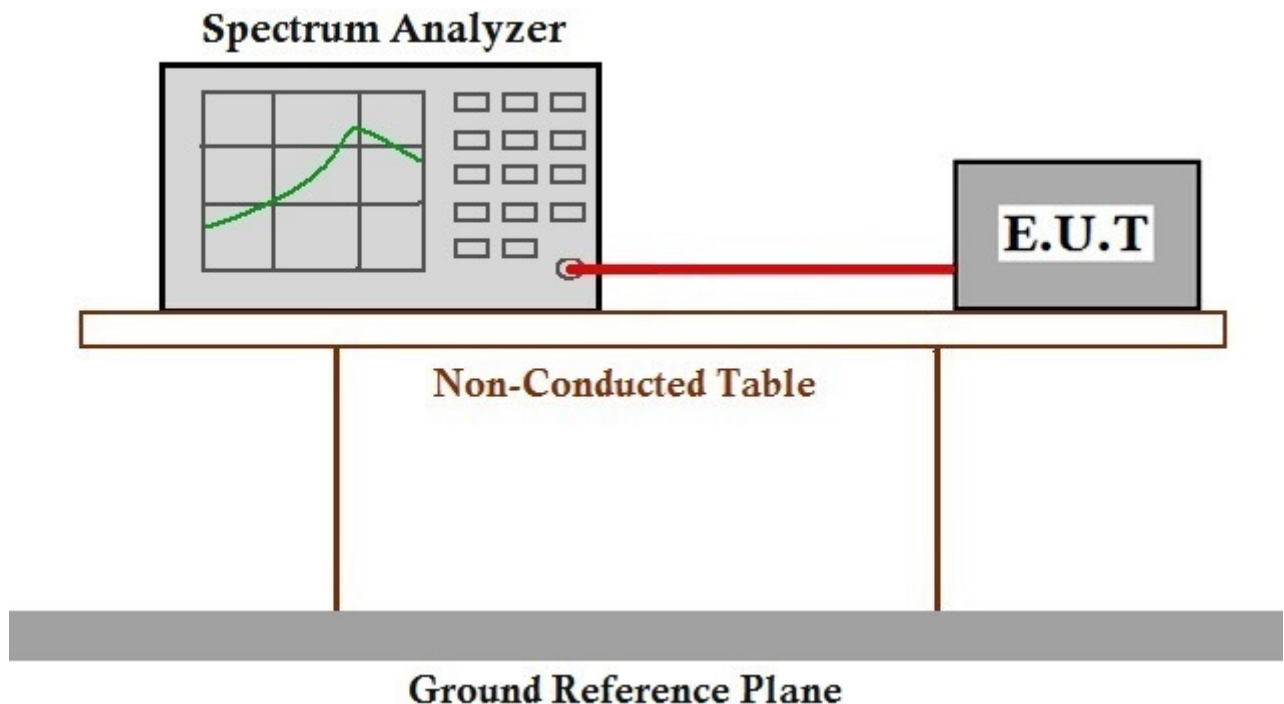
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 43.8 % RH Atmospheric Pressure: 1015 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with modulation.

7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix RSS247



7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b); RSS 247 Section 3.3 & RSS-Gen Section 8.10
Test Method: ANSI C63.10 Section 12.7.3
Measurement Distance: 3m
Limit:

For FCC:

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

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

For IC:

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- 27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

7.7.1 E.U.T. Operation

Operating Environment:

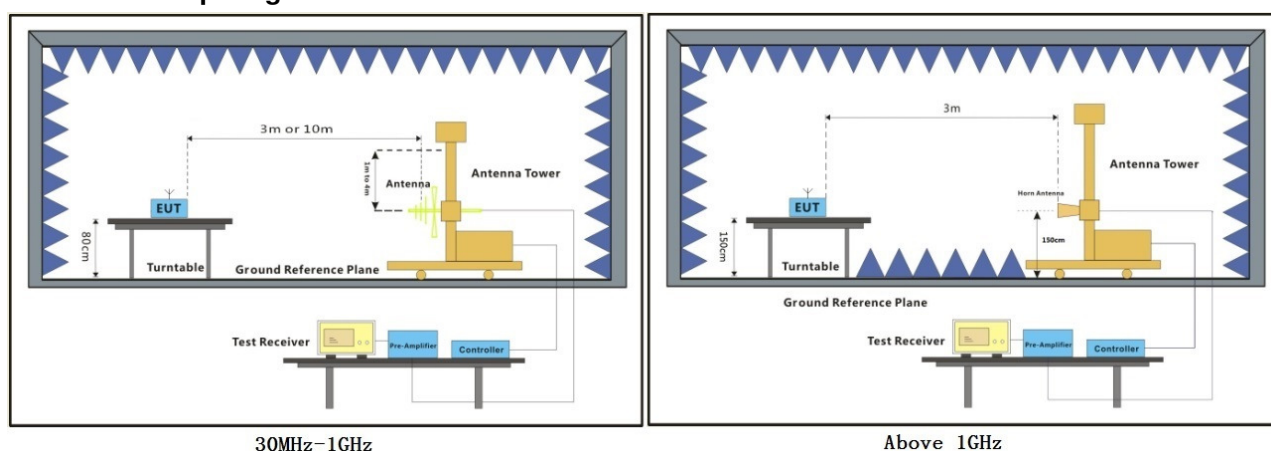
Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

Pretest these c:TX mode_Keep the EUT in continuously transmitting mode with modulation.

modes to find d: Charge + TX mode_Keep the EUT in charging and continuously transmitting the worst case: mode with modulation.

The worst case d: Charge + TX mode_Keep the EUT in charging and continuously transmitting for final test: mode with modulation.

7.7.2 Test Setup Diagram



7.7.3 Measurement Procedure and Data

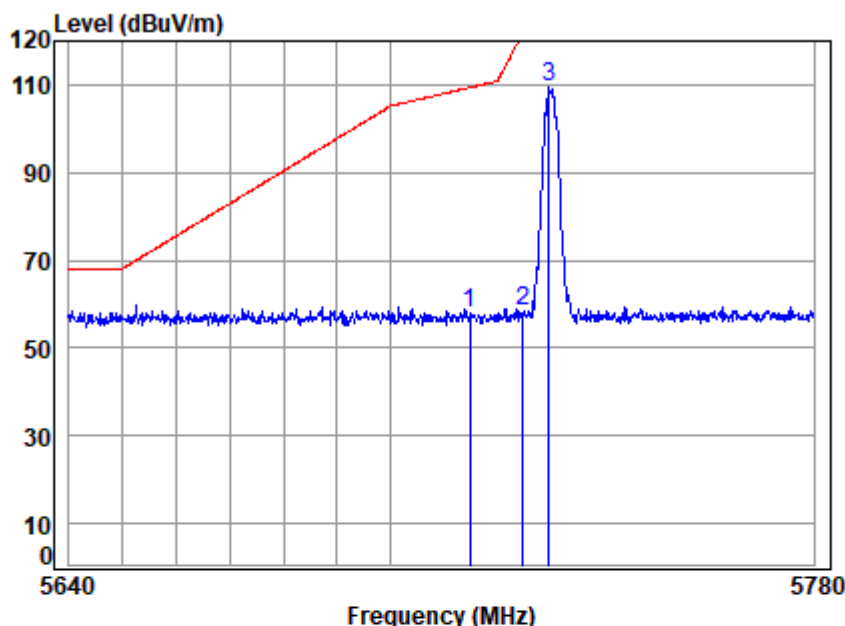
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5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

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

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

1.4MHz BW CA

Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5730.12MHz

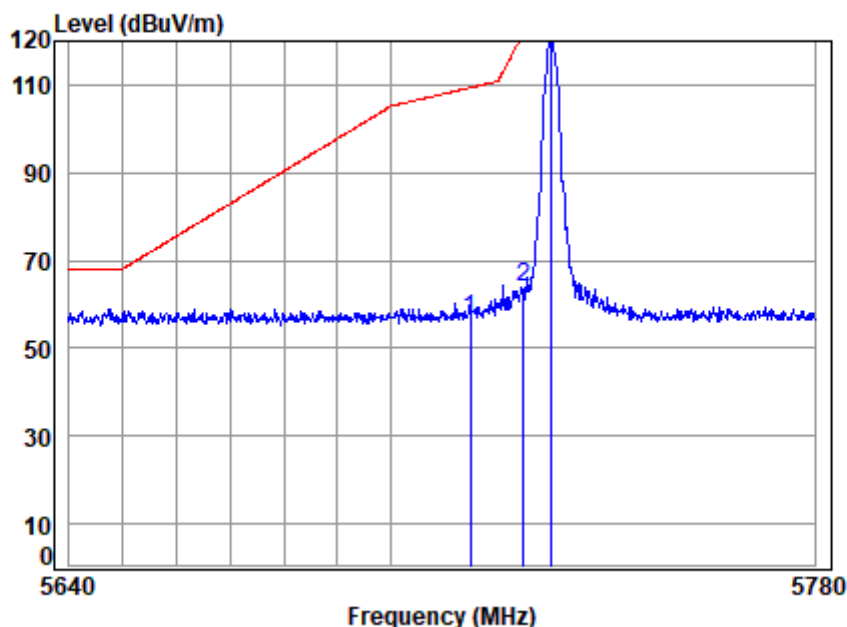


Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5730.12 Band edge
: 1.4M CA

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	56.52	57.86	109.40	-51.54 peak
2	5725.000	9.64	34.83	43.08	57.22	58.61	122.20	-63.59 peak
3	5729.766	9.66	34.84	43.08	108.11	109.53	-----	----- Peak



Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5730.12MHz

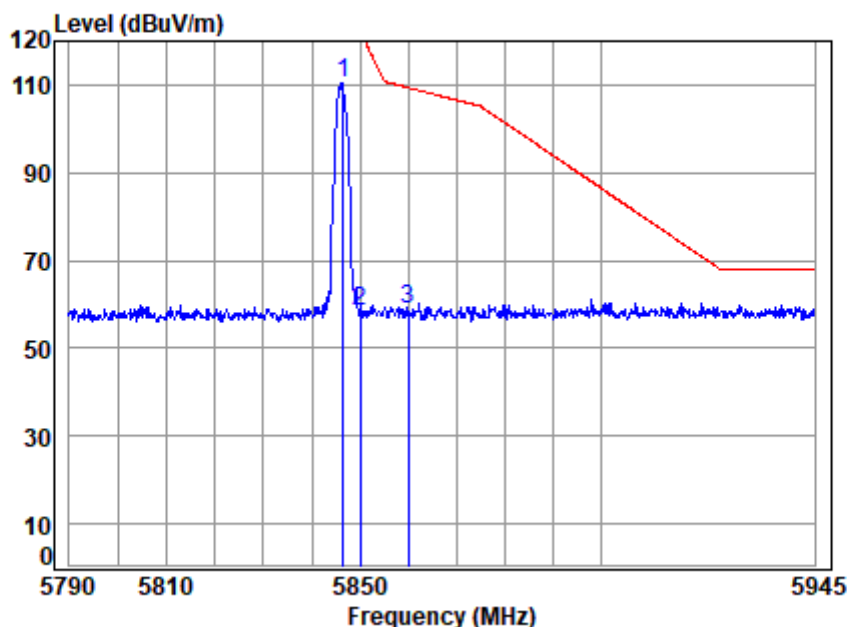


Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5730.12 Band edge
: 1.4M CA

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	55.36	56.70	109.40	-52.70 peak
2	5725.000	9.64	34.83	43.08	62.68	64.07	122.20	-58.13 peak
3	5730.047	9.66	34.84	43.08	120.30	121.72	-----	----- Peak



Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5846.12MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5846.12 Band edge
: 1.4M CA

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5846.410	10.06	34.95	42.97	108.60	110.64	-----	-----	Peak
2	5850.000	10.07	34.95	42.96	56.29	58.35	122.20	-63.85	peak
3	5860.000	10.10	34.96	42.96	56.74	58.84	109.40	-50.56	peak

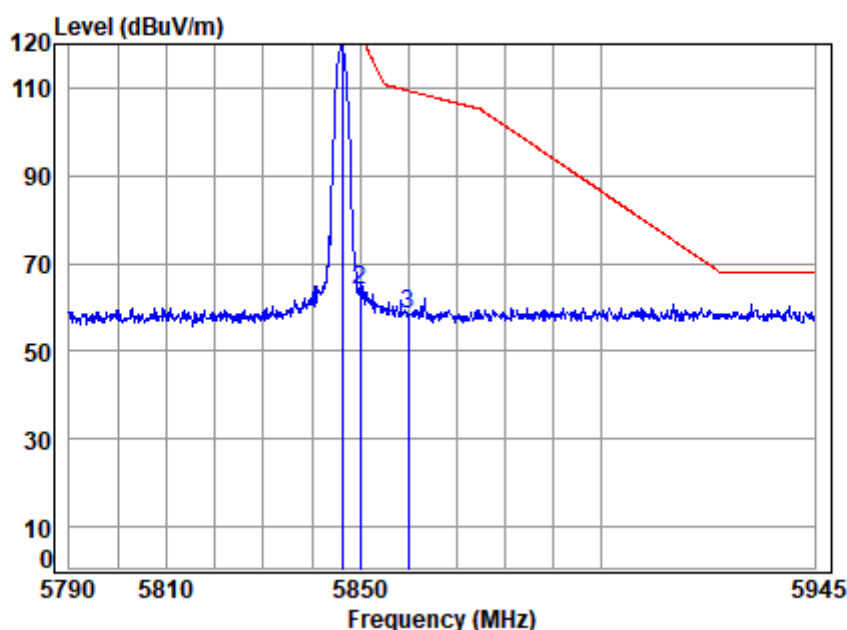


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Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5846.12MHz

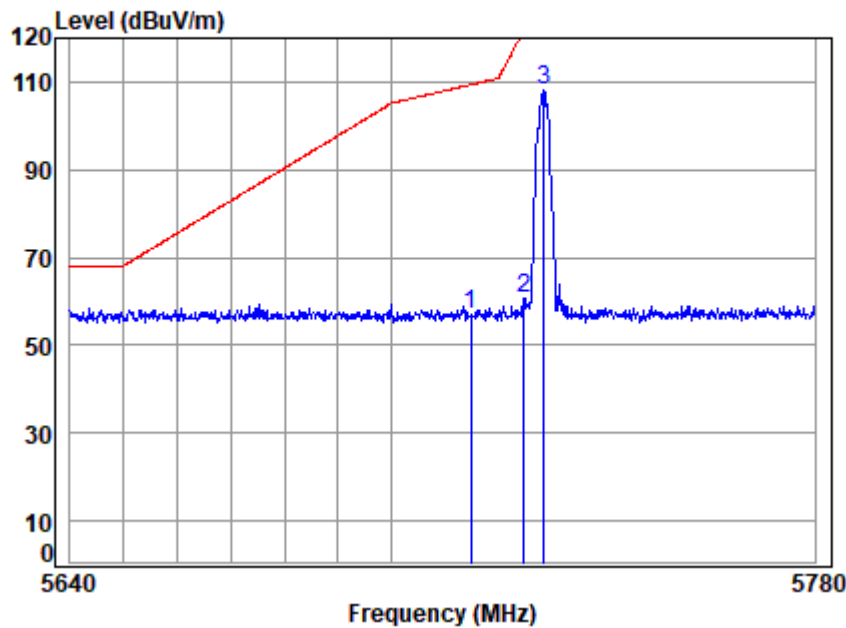


Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5846.12 Band edge
: 1.4M CA

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5846.564	10.06	34.95	42.97	117.96	120.00	-----	Peak
2	5850.000	10.07	34.95	42.96	61.82	63.88	122.20	-58.32 peak
3	5860.000	10.10	34.96	42.96	56.41	58.51	109.40	-50.89 peak

1.4 MHz BW

Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5728.5MHz

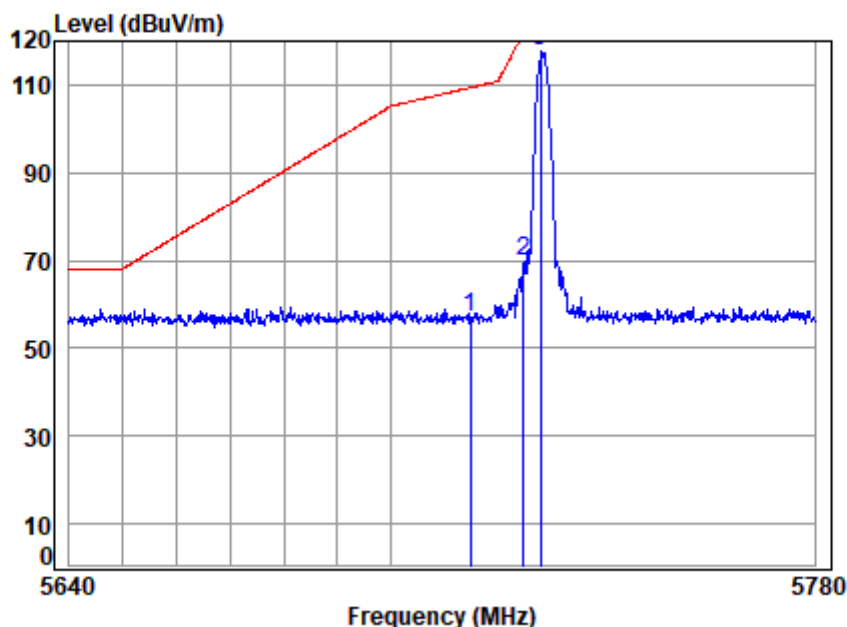


Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5728.5 Band edge
: 1.4M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	55.76	57.10	109.40	-52.30	peak
2	5725.000	9.64	34.83	43.08	59.25	60.64	122.20	-61.56	peak
3	5728.642	9.66	34.83	43.08	106.84	108.25	-----	-----	Peak



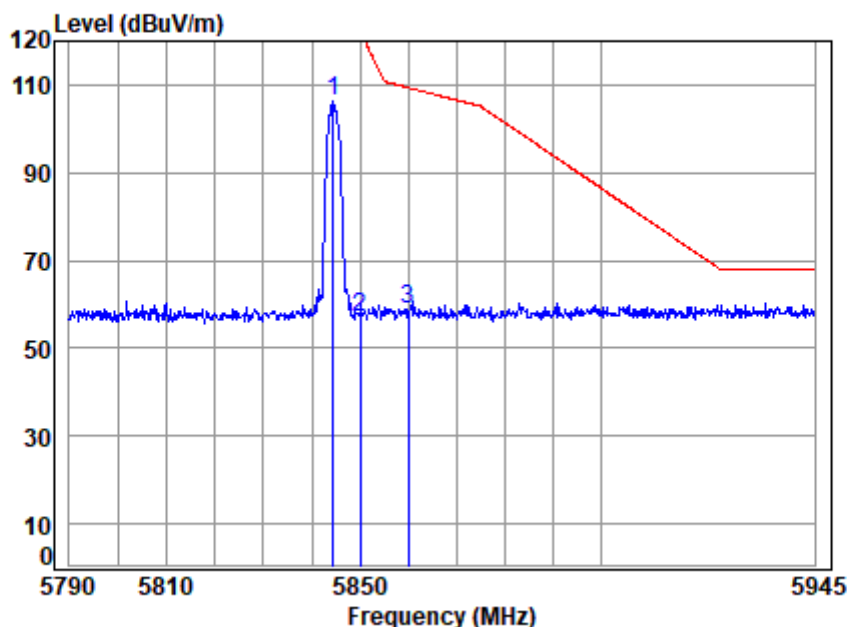
Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5728.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5728.5 Band edge
: 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	55.77	57.11	109.40	-52.29 peak
2	5725.000	9.64	34.83	43.08	68.56	69.95	122.20	-52.25 peak
3	5728.221	9.65	34.83	43.08	116.10	117.50	-----	----- Peak

Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5844.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5844.5 Band edge
: 1.4M

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5844.402	10.05	34.95	42.97	104.21	106.24	-----	-----	Peak
5850.000	10.07	34.95	42.96	54.83	56.89	122.20	-65.31	peak
5860.000	10.10	34.96	42.96	56.91	59.01	109.40	-50.39	peak

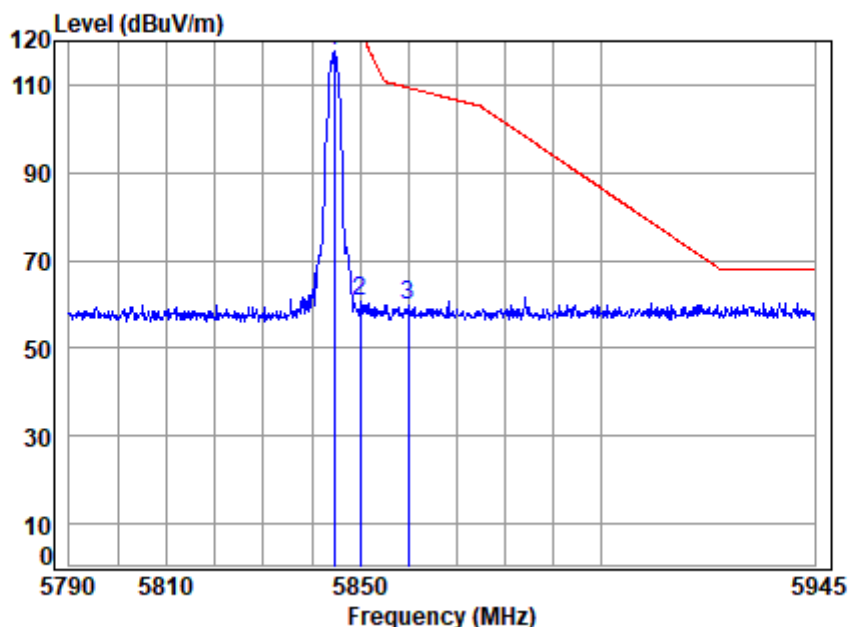


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Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5844.5MHz



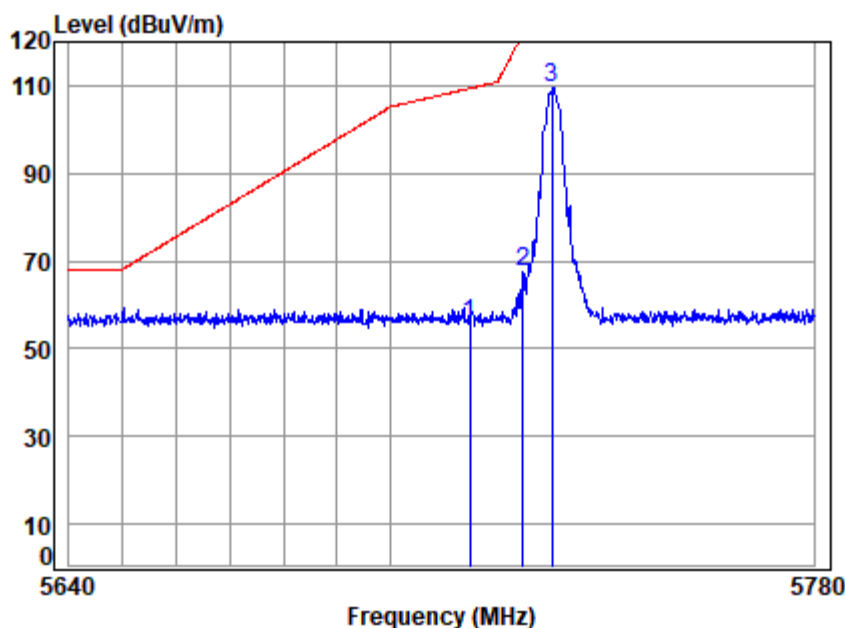
Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5844.5 Band edge
: 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5844.711	10.05	34.95	42.97	115.63	117.66	-----	Peak
2	5850.000	10.07	34.95	42.96	58.58	60.64	122.20	peak
3	5860.000	10.10	34.96	42.96	57.88	59.98	109.40	peak



3MHz BW

Mode:d; Polarization:Horizontal; Bandwidth:3MHz; Channel:5730.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5730.5 Band edge
: 3M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	54.46	55.80	109.40	-53.60	peak
2	5725.000	9.64	34.83	43.08	66.21	67.60	122.20	-54.60	peak
3	5730.328	9.66	34.84	43.07	108.13	109.56	-----	-----	Peak

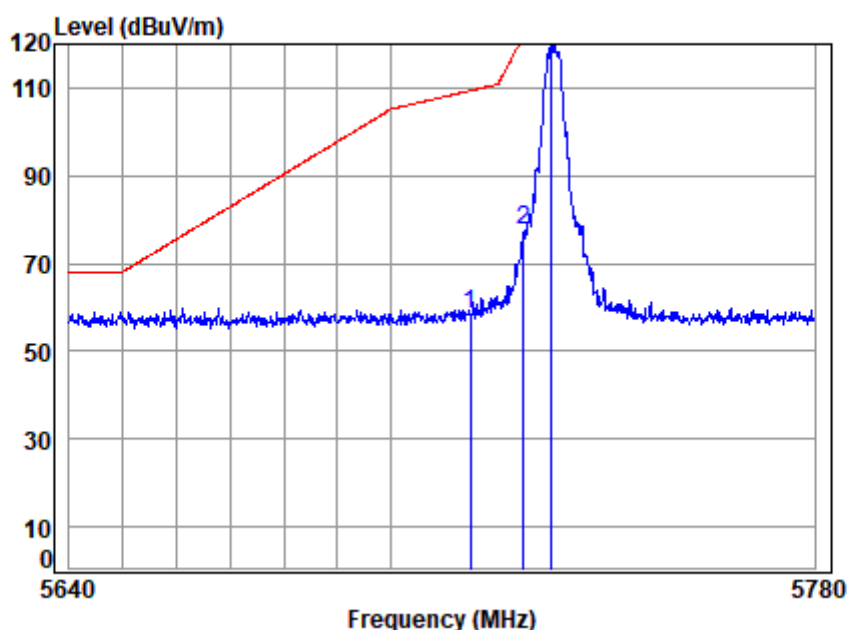


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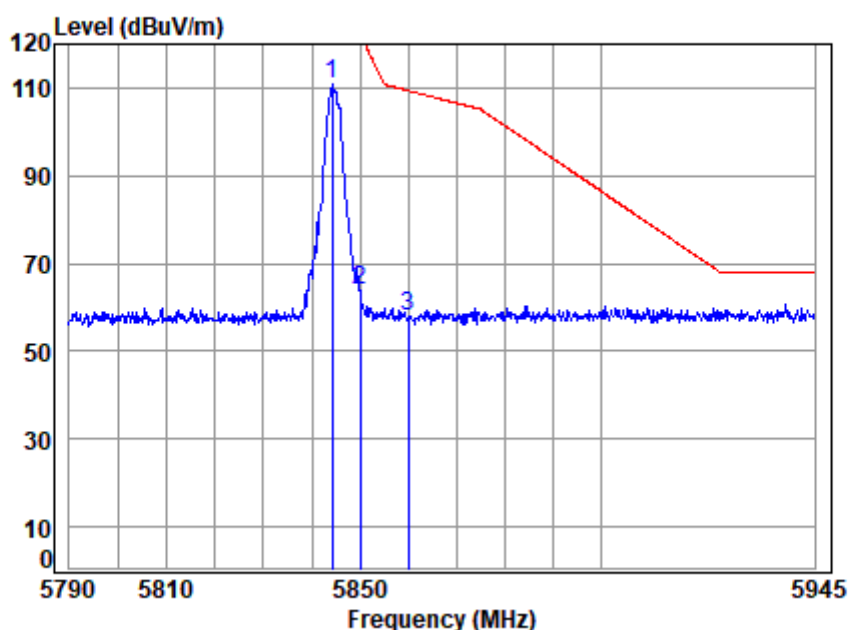
Mode:d; Polarization:Vertical; Bandwidth:3MHz; Channel:5730.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5730.5 Band edge
: 3M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	57.05	58.39	109.40	-51.01 peak
2	5725.000	9.64	34.83	43.08	76.19	77.58	122.20	-44.62 peak
3	5730.188	9.66	34.84	43.07	119.39	120.82	-----	----- Peak

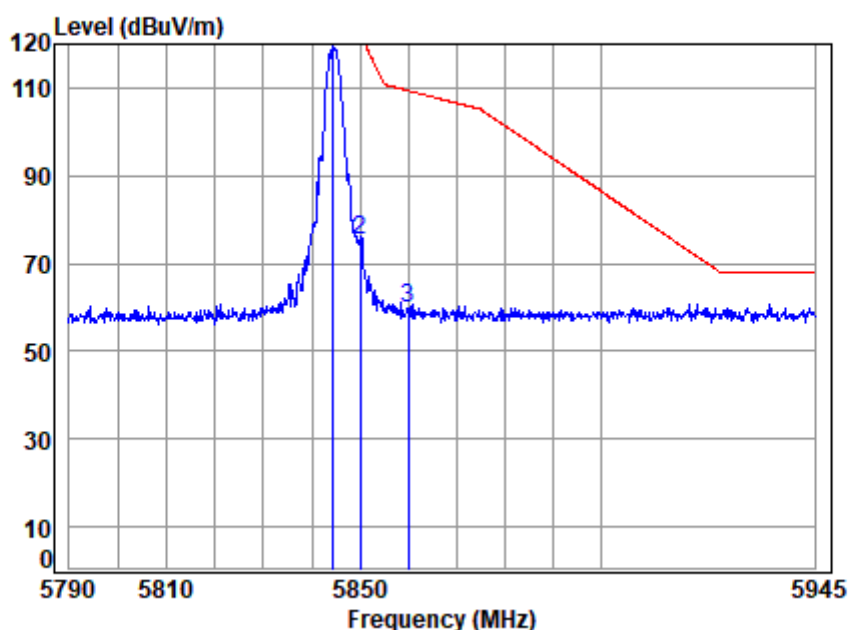
Mode:d; Polarization:Horizontal; Bandwidth:3MHz; Channel:5844.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5844.5 Band edge
: 3M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5844.248	10.05	34.95	42.97	108.97	111.00	-----	Peak
2	5850.000	10.07	34.95	42.96	61.67	63.73	122.20	-58.47 peak
3	5860.000	10.10	34.96	42.96	55.93	58.03	109.40	-51.37 peak

Mode:d; Polarization:Vertical; Bandwidth:3MHz; Channel:5844.5MHz

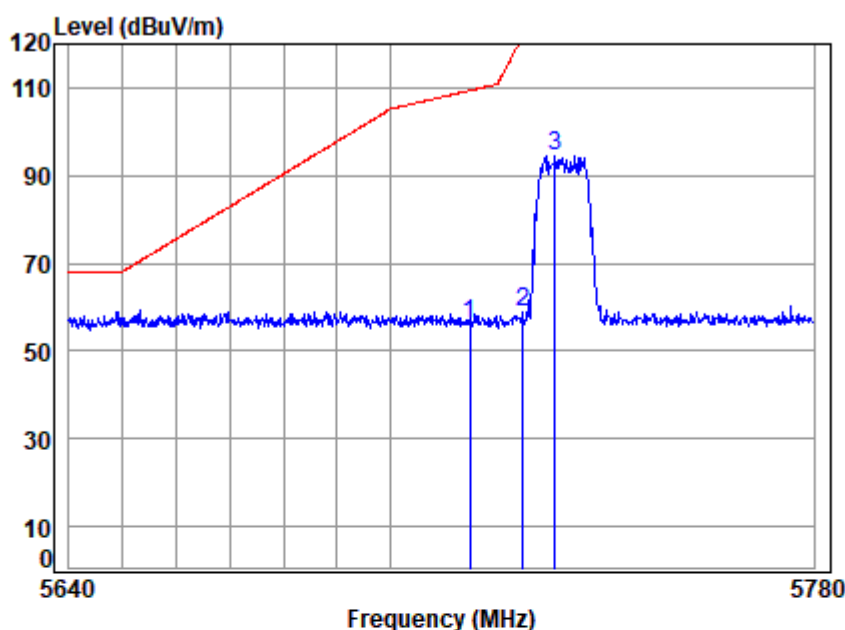


Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5844.5 Band edge
: 3M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5844.402	10.05	34.95	42.97	117.38	119.41	-----	----- Peak
2	5850.000	10.07	34.95	42.96	73.30	75.36	122.20	-46.84 peak
3	5860.000	10.10	34.96	42.96	57.84	59.94	109.40	-49.46 peak

10MHz BW

Mode:d; Polarization:Horizontal; Bandwidth:10MHz; Channel:5732.5MHz

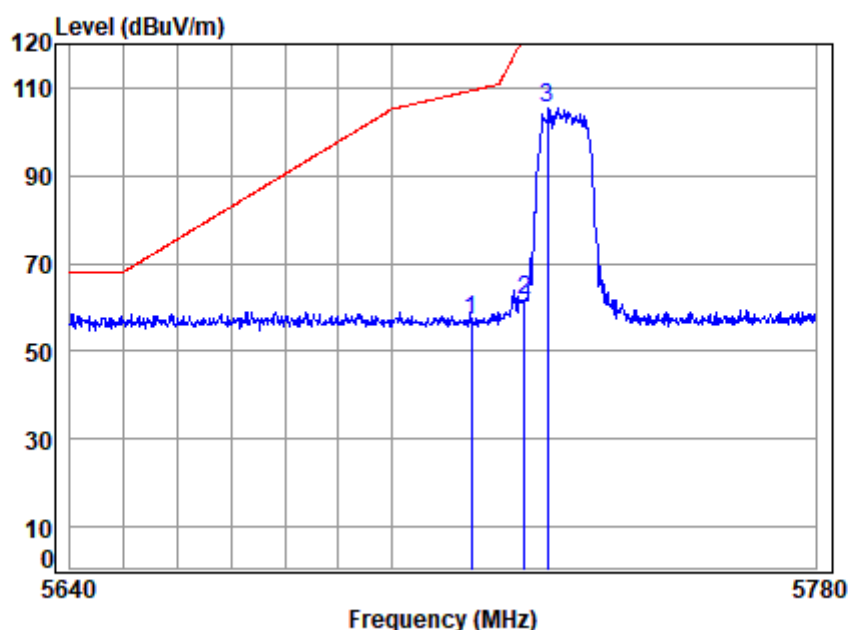


Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5732.5 Band edge
: 10M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	54.69	56.03	109.40	-53.37	peak
2	5725.000	9.64	34.83	43.08	57.60	58.99	122.20	-63.21	peak
3	5731.031	9.66	34.84	43.07	93.09	94.52	-----	-----	Peak



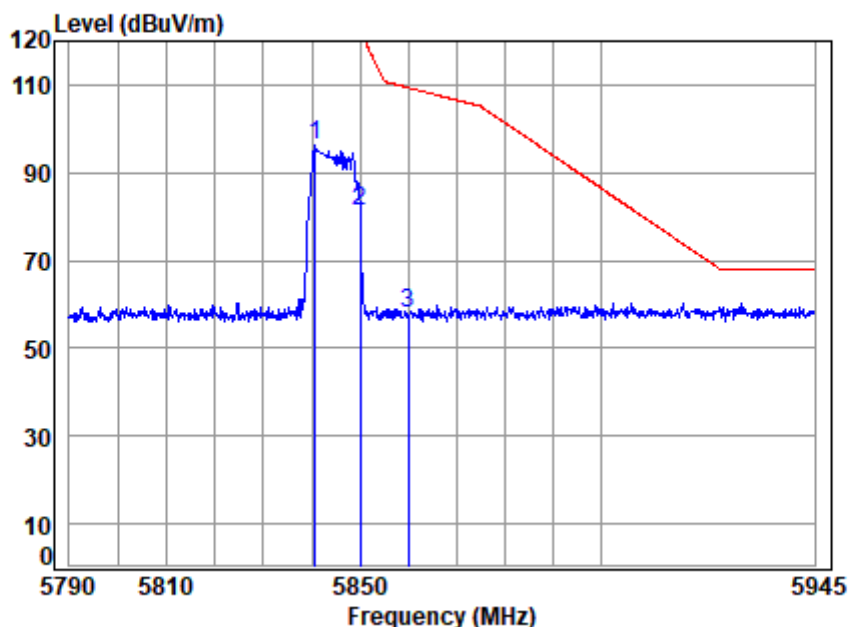
Mode:d; Polarization:Vertical; Bandwidth:10MHz; Channel:5732.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5732.5 Band edge
: 10M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	55.79	57.13	109.40	-52.27 peak
2	5725.000	9.64	34.83	43.08	60.42	61.81	122.20	-60.39 peak
3	5729.345	9.66	34.83	43.08	103.89	105.30	-----	----- Peak

Mode:d; Polarization:Horizontal; Bandwidth:10MHz; Channel:5844.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5844.5 Band edge
: 10M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5840.698	10.04	34.95	42.97	94.20	96.22	-----	Peak
2	5850.000	10.07	34.95	42.96	79.31	81.37	122.20	-40.83 peak
3	5860.000	10.10	34.96	42.96	55.86	57.96	109.40	-51.44 peak

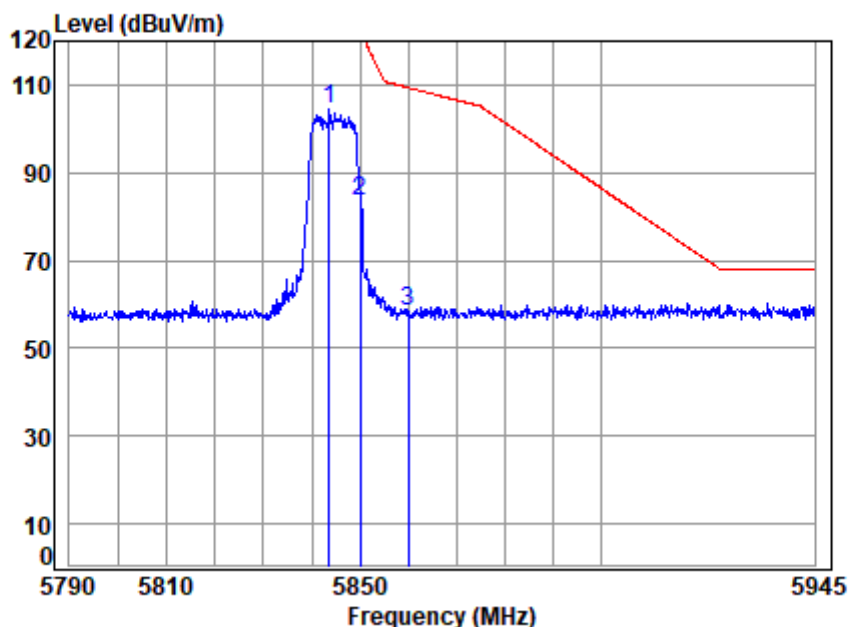


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Mode:d; Polarization:Vertical; Bandwidth:10MHz; Channel:5844.5MHz



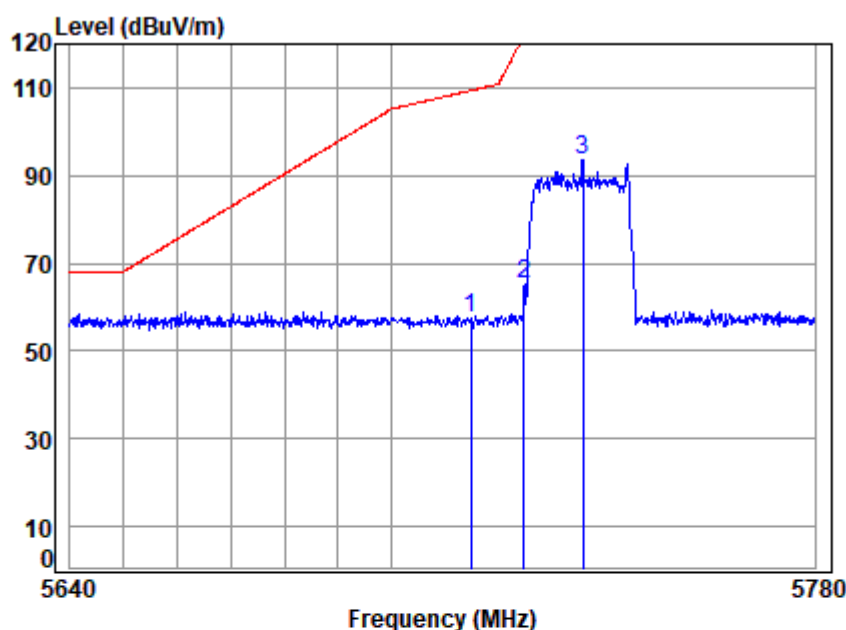
Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5844.5 Band edge
: 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5843.630	10.05	34.95	42.97	102.31	104.34	-----	----- Peak
2	5850.000	10.07	34.95	42.96	81.21	83.27	122.20	-38.93 peak
3	5860.000	10.10	34.96	42.96	56.44	58.54	109.40	-50.86 peak



20MHz BW

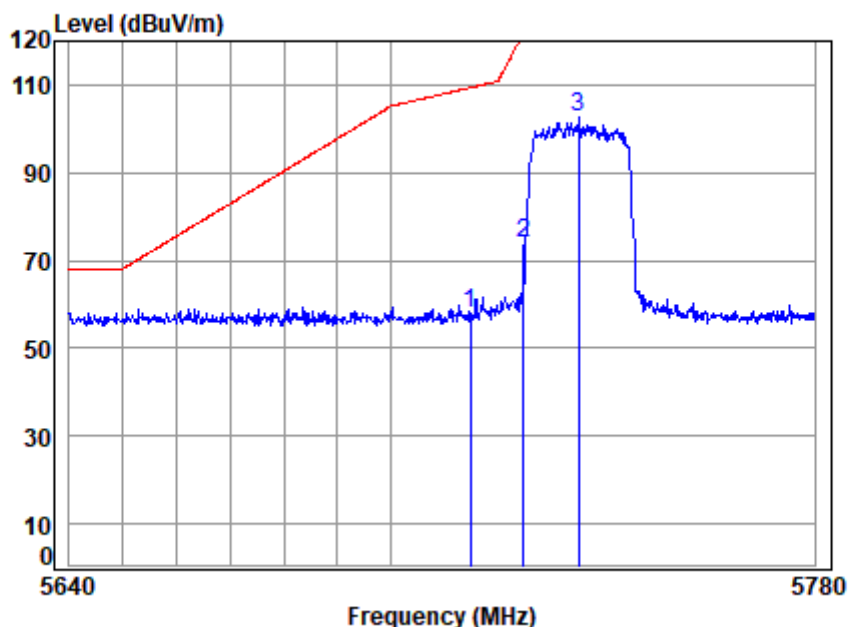
Mode:d; Polarization:Horizontal; Bandwidth:20MHz; Channel:5735.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5735.5 Band edge
: 20M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	9.61	34.82	43.09	56.03	57.37	109.40	-52.03	peak
2	5725.000	9.64	34.83	43.08	64.03	65.42	122.20	-56.78	peak
3	5736.092	9.68	34.84	43.07	92.07	93.52	-----	-----	Peak

Mode:d; Polarization:Vertical; Bandwidth:20MHz; Channel:5735.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5735.5 Band edge
: 20M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.000	9.61	34.82	43.09	56.44	57.78	109.40	-51.62 peak
2	5725.000	9.64	34.83	43.08	72.75	74.14	122.20	-48.06 peak
3	5735.248	9.68	34.84	43.07	101.19	102.64	-----	----- Peak

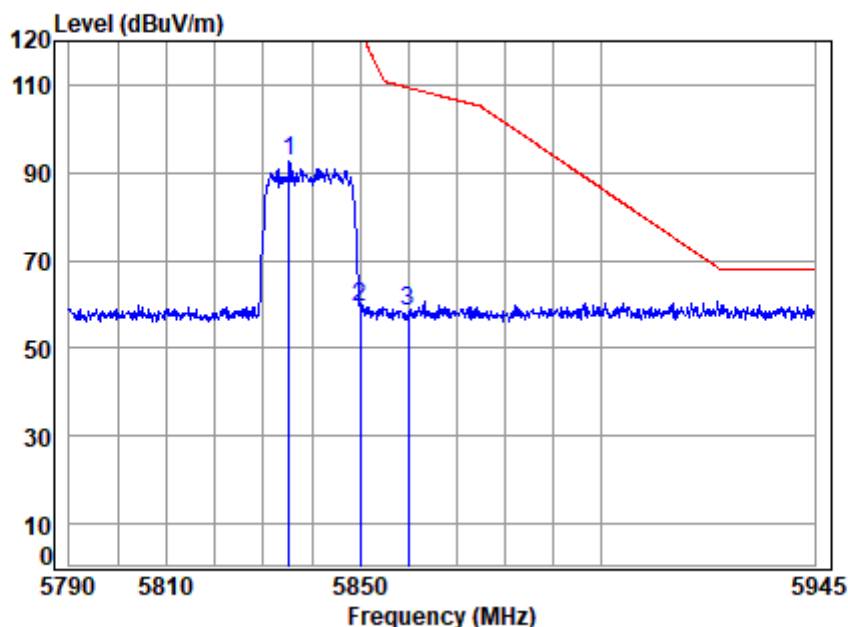


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Mode:d; Polarization:Horizontal; Bandwidth:20MHz; Channel:5839.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR\21066CR
Mode : 5839.5 Band edge
: 20M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5835.300	10.02	34.94	42.98	90.52	92.50	-----	Peak
2	5850.000	10.07	34.95	42.96	57.07	59.13	122.20	-63.07 peak
3	5860.000	10.10	34.96	42.96	56.09	58.19	109.40	-51.21 peak

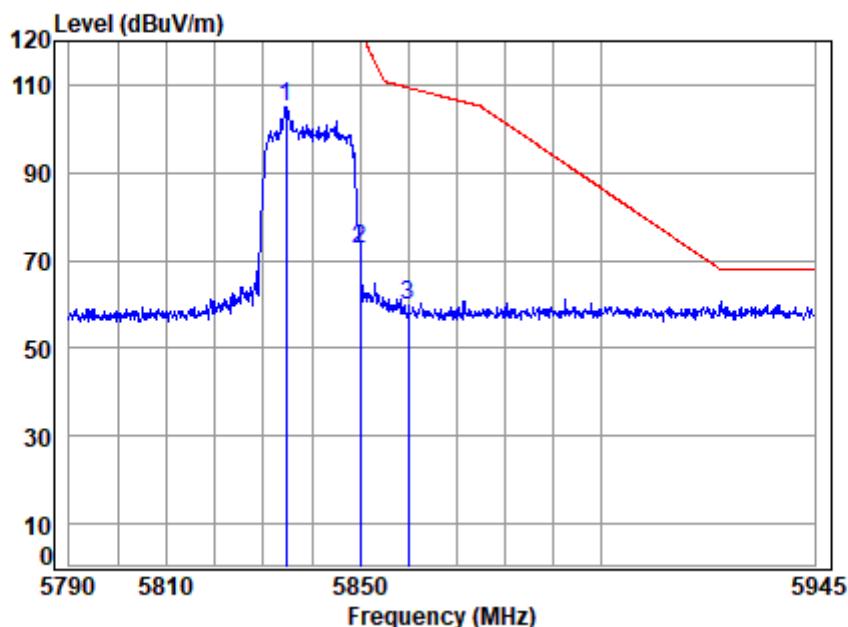


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Mode:d; Polarization:Vertical; Bandwidth:20MHz; Channel:5839.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR\21066CR
Mode : 5839.5 Band edge
: 20M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5834.684	10.02	34.94	42.98	103.04	105.02	-----	-----	Peak
2	5850.000	10.07	34.95	42.96	70.62	72.68	122.20	-49.52	peak
3	5860.000	10.10	34.96	42.96	57.63	59.73	109.40	-49.67	peak



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7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart E 15.209 & 15.407(b) ; RSS 247 Section 6.2 & RSS-Gen Section 8.9
Test Method: ANSI C63.10 Section 12.7.3
Measurement Distance: 3m
Limit:

For FCC:

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

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

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

For IC:

Table 5 - General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength (μ V/m at 3 m)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Table 6 - General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) (μ A/m)	Measurement distance (m)
9 - 490 kHz 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.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- 27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

7.8.1 E.U.T. Operation

Operating Environment:

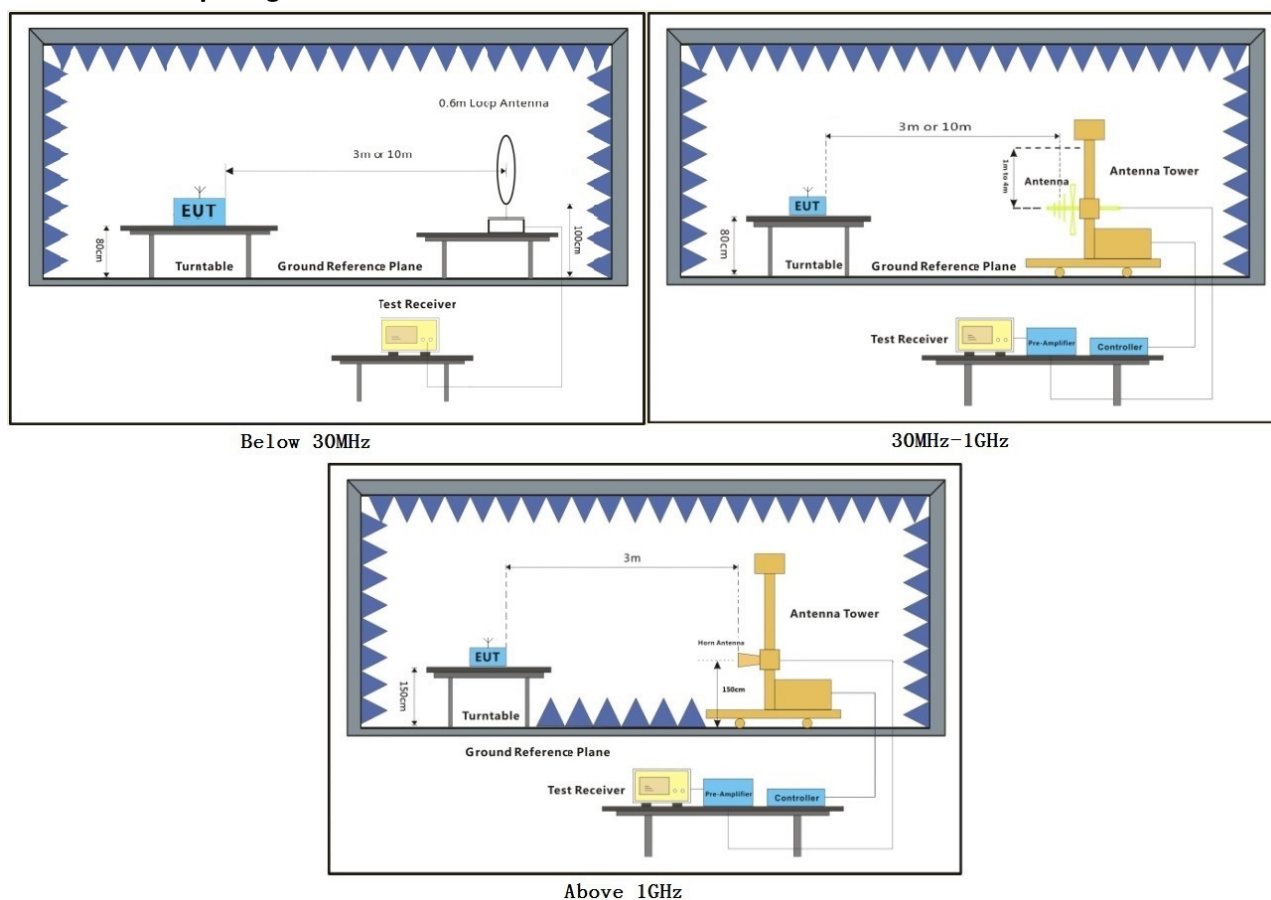
Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case: c:TX mode_Keep the EUT in continuously transmitting mode with modulation.

d: Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with modulation.

The worst case for final test: d: Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with modulation.

7.8.2 Test Setup Diagram



7.8.3 Measurement Procedure and Data

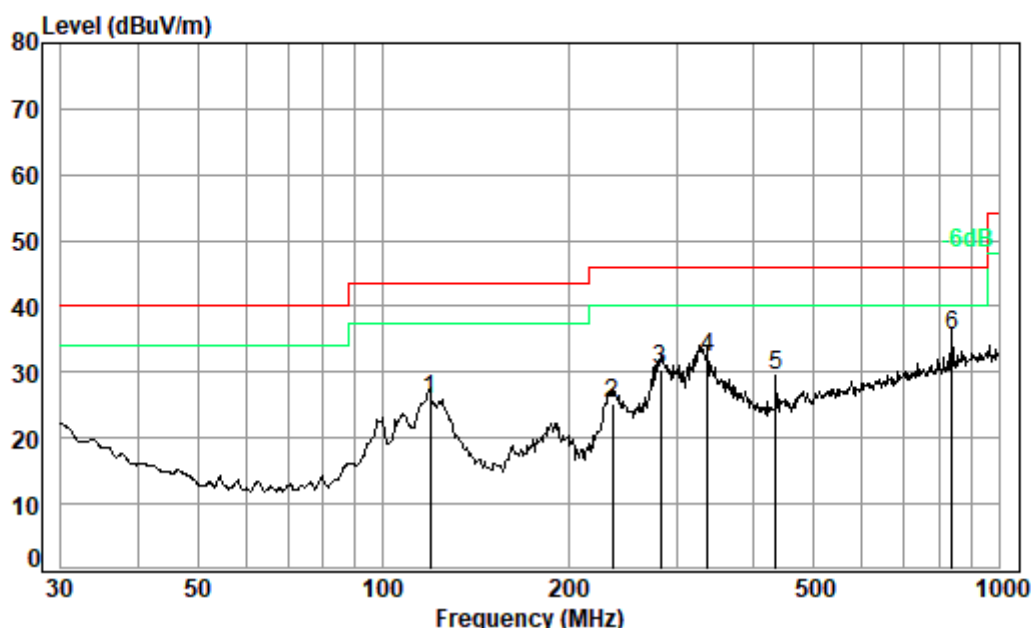
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5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

Remark:

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

Radiated emission below 1GHz

Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5730.12MHz



Condition: 3m HORIZONTAL

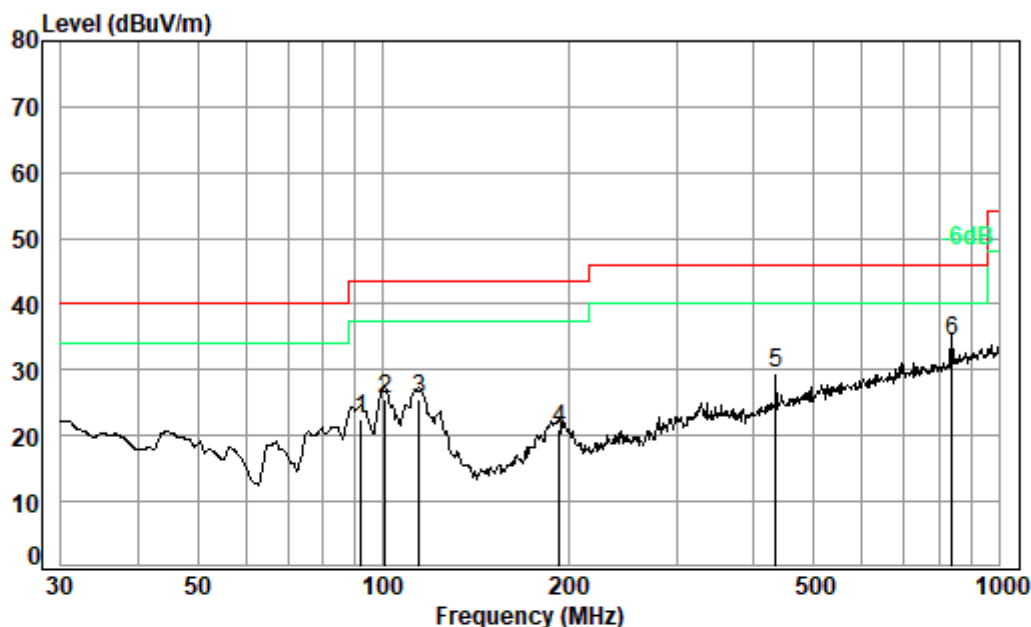
Job No. : 21066CR

Test mode: d

	Ant	Cable	Read		Limit	Over	
	Freq	Factor	Loss	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	119.44	13.12	1.25	38.93	25.78	43.50	-17.72 QP
2	235.82	18.48	1.60	32.25	25.28	46.00	-20.72 QP
3	281.99	18.88	1.82	36.64	30.41	46.00	-15.59 QP
4	337.22	20.74	2.02	36.53	32.18	46.00	-13.82 QP
5	434.07	23.21	2.35	31.52	29.51	46.00	-16.49 QP
6 pp	839.18	29.03	3.36	30.66	35.50	46.00	-10.50 QP



Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5730.12MHz



Condition: 3m VERTICAL

Job No. : 21066CR

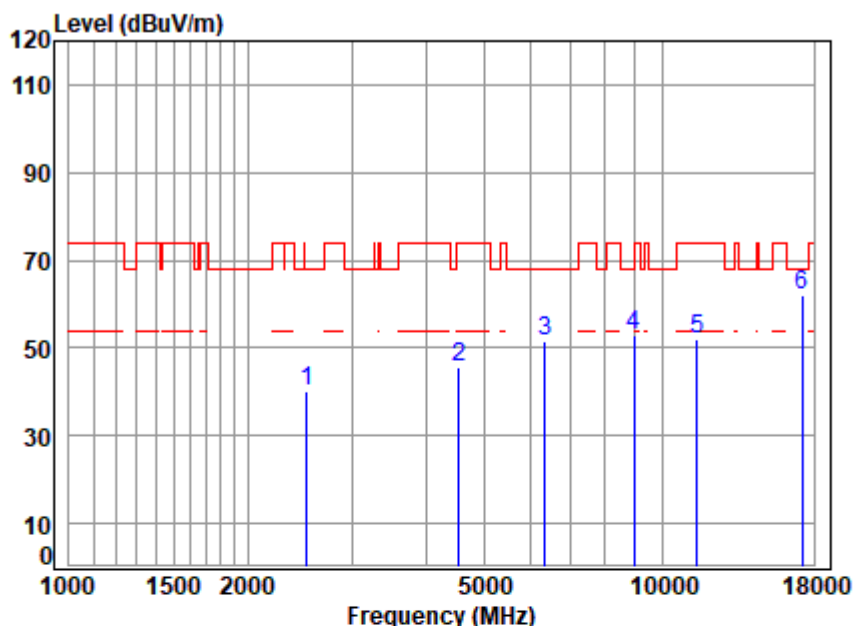
Test mode: d

		Ant	Cable	Read	Limit	Over	
	Freq	Factor	Loss	Level	Line	Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dB	
1	92.14	13.30	1.12	35.82	22.59	43.50	QP
2	100.93	13.95	1.20	38.04	25.56	43.50	QP
3	114.51	13.33	1.24	38.46	25.48	43.50	QP
4	193.09	16.30	1.39	30.38	20.88	43.50	QP
5	434.07	23.21	2.35	31.51	29.50	46.00	QP
6 pp	839.18	29.03	3.36	29.62	34.46	46.00	QP

Above 1GHz

1.4MHz BW CA

Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5730.12MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5730.12 TX RSE
Note : 1.4M CA

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2514.386	5.63	28.77	41.22	47.05	40.23	68.20	-27.97	Peak
2	4534.271	7.60	33.64	43.34	47.81	45.71	74.00	-28.29	Peak
3	6340.436	11.24	35.44	42.54	47.47	51.61	68.20	-16.59	Peak
4	8969.161	10.39	37.19	39.51	44.66	52.73	68.20	-15.47	Peak
5	11460.240	12.10	37.89	38.47	40.58	52.10	74.00	-21.90	Peak
6	17190.360	16.28	42.72	40.33	43.46	62.13	68.20	-6.07	Peak

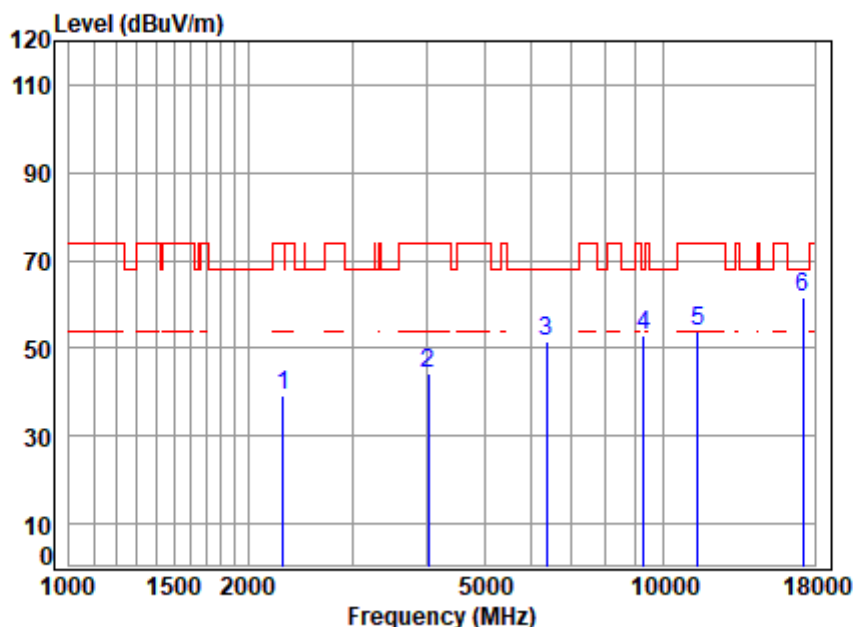


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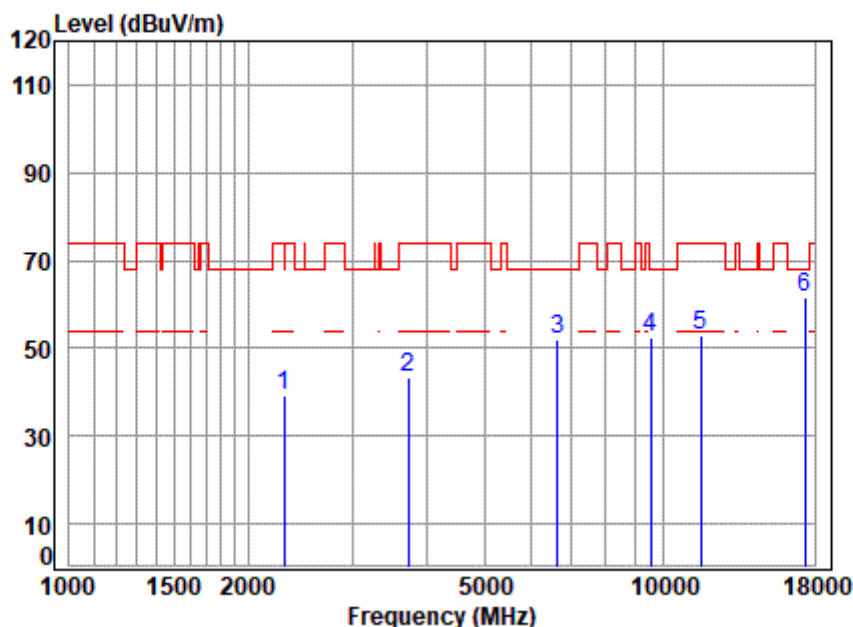
Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5730.12MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5730.12 TX RSE
Note : 1.4M CA

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2292.257	5.34	28.35	41.13	46.69	39.25	74.00	-34.75 Peak
2	4027.554	7.01	32.75	42.78	47.38	44.36	74.00	-29.64 Peak
3	6377.195	11.31	35.48	42.51	47.28	51.56	68.20	-16.64 Peak
4	9285.710	10.57	37.43	38.96	44.02	53.06	68.20	-15.14 Peak
5	11460.240	12.10	37.89	38.47	42.34	53.86	74.00	-20.14 Peak
6	17190.360	16.28	42.72	40.33	42.91	61.58	68.20	-6.62 Peak

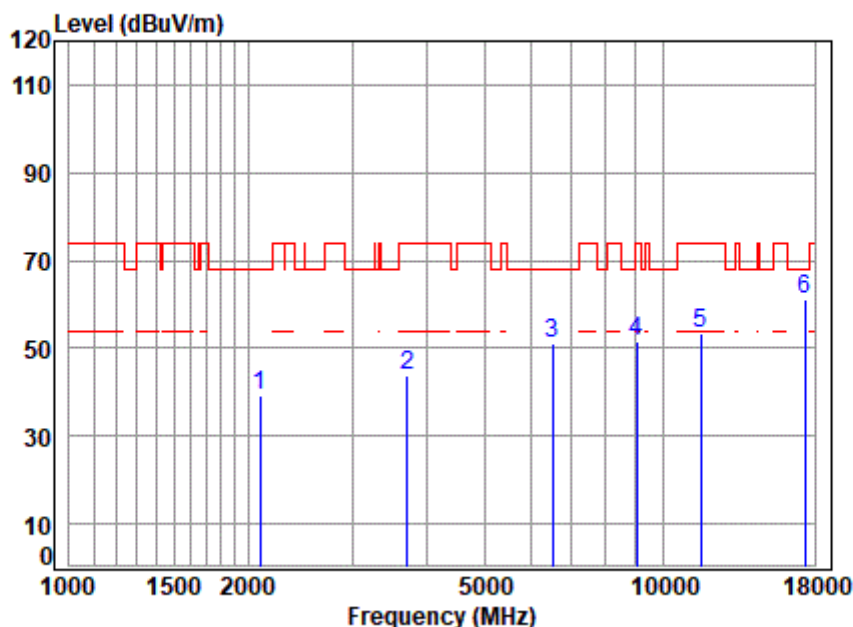
Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5788.12MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5788.12 TX RSE
Note : 1.4M CA

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2298.892	5.35	28.36	41.13	46.60	39.18	74.00	-34.82	Peak
2	3725.195	6.70	32.17	42.42	47.12	43.57	74.00	-30.43	Peak
3	6640.542	11.13	35.69	42.29	47.41	51.94	68.20	-16.26	Peak
4	9530.432	10.71	37.62	38.55	42.52	52.30	68.20	-15.90	Peak
5	11578.240	12.17	37.87	38.52	41.51	53.03	74.00	-20.97	Peak
6	17367.360	15.89	42.82	40.30	43.09	61.50	68.20	-6.70	Peak

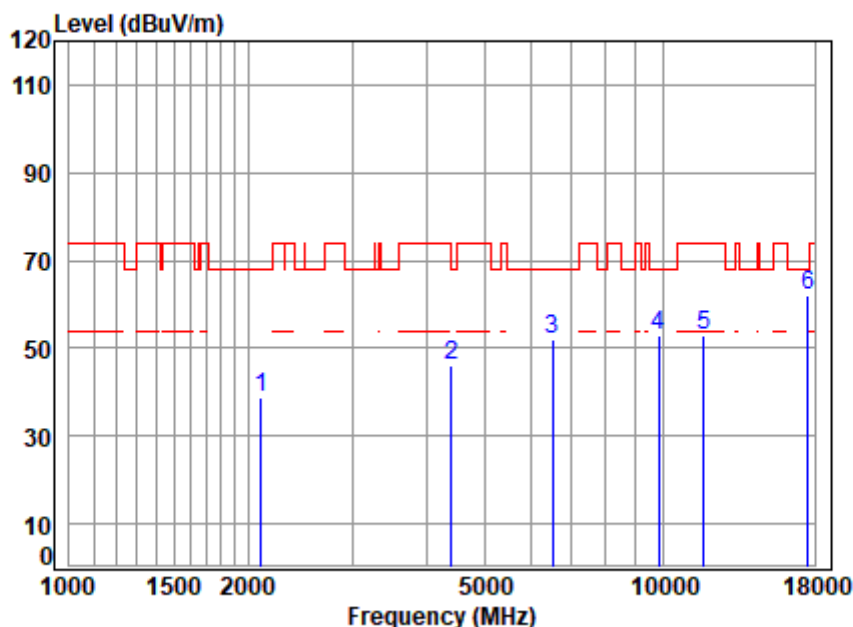
Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5788.12MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5788.12 TX RSE
Note : 1.4M CA

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2095.800	5.05	27.99	41.04	47.32	39.32	68.20	-28.88 Peak
2	3714.443	6.69	32.15	42.40	47.45	43.89	74.00	-30.11 Peak
3	6507.536	11.52	35.60	42.40	46.60	51.32	68.20	-16.88 Peak
4	9021.160	10.41	37.22	39.42	43.36	51.57	74.00	-22.43 Peak
5	11578.240	12.17	37.87	38.52	41.68	53.20	74.00	-20.80 Peak
6	17367.360	15.89	42.82	40.30	42.58	60.99	68.20	-7.21 Peak

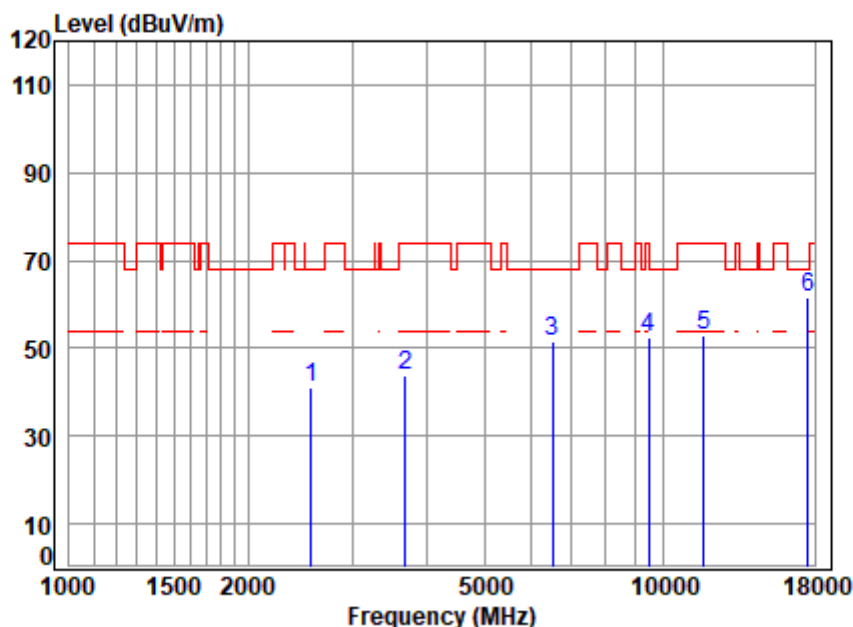
Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5846.12MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5846.12 TX RSE
Note : 1.4M CA

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2101.866	5.06	28.00	41.04	46.70	38.72	68.20	-29.48 Peak
2	4405.090	7.46	33.44	43.20	48.60	46.30	68.20	-21.90 Peak
3	6507.536	11.52	35.60	42.40	47.28	52.00	68.20	-16.20 Peak
4	9838.312	10.86	37.80	38.06	42.14	52.74	68.20	-15.46 Peak
5	11692.240	12.21	37.82	38.57	41.25	52.71	74.00	-21.29 Peak
6	17538.360	15.64	42.95	40.27	43.58	61.90	68.20	-6.30 Peak

Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5846.12MHz

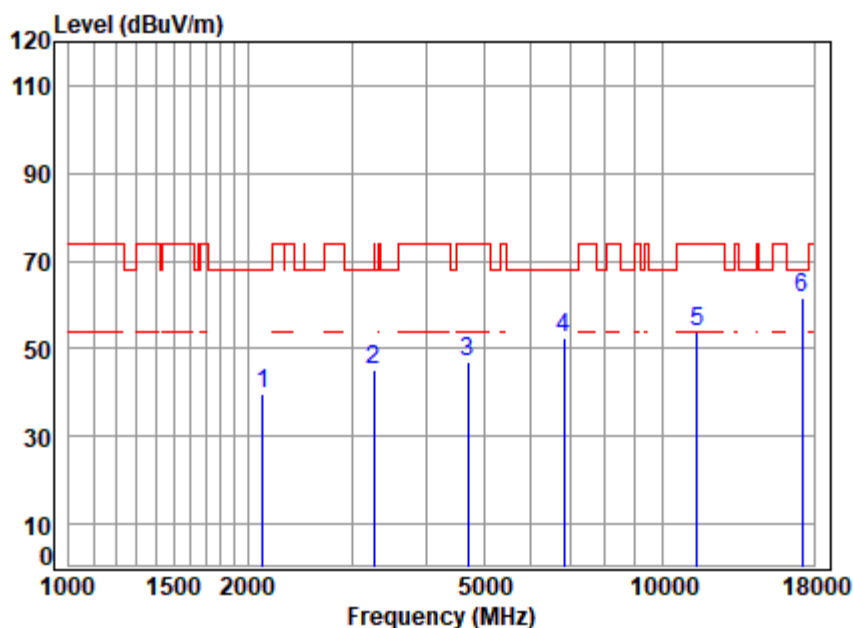


Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5846.12 TX RSE
Note : 1.4M CA

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2550.987	5.66	28.94	41.24	47.66	41.02	68.20	-27.18 Peak
2	3682.374	6.66	32.08	42.36	47.22	43.60	74.00	-30.40 Peak
3	6526.373	11.46	35.62	42.38	46.86	51.56	68.20	-16.64 Peak
4	9448.149	10.66	37.56	38.69	42.96	52.49	74.00	-21.51 Peak
5	11692.240	12.21	37.82	38.57	41.64	53.10	74.00	-20.90 Peak
6	17538.360	15.64	42.95	40.27	43.34	61.66	68.20	-6.54 Peak

1.4 MHz BW

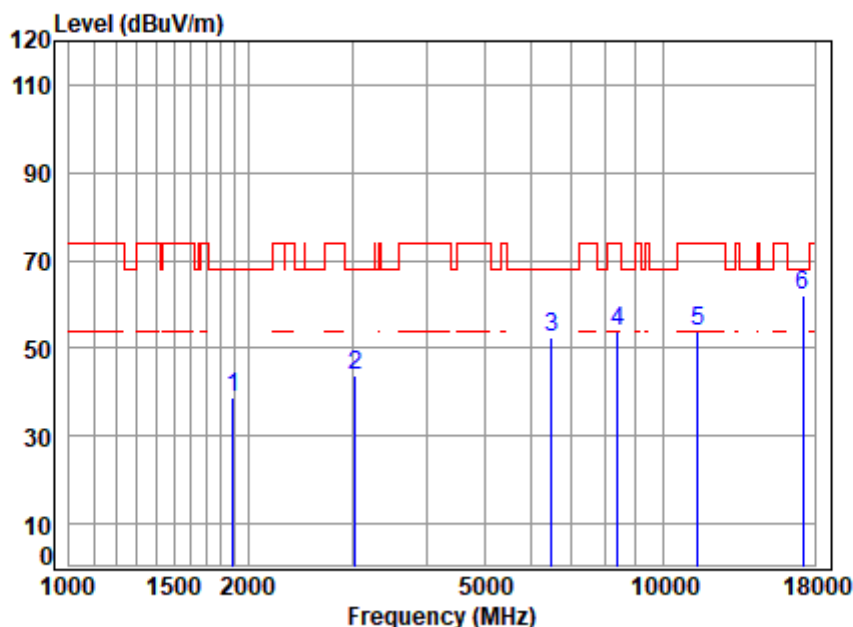
Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5728.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5728.5 TX RSE
Note : 1.4M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2120.171	5.09	28.04	41.05	47.53	39.61	68.20	-28.59	Peak
2	3261.418	6.24	31.33	41.79	49.61	45.39	74.00	-28.61	Peak
3	4694.299	7.77	33.84	43.50	48.97	47.08	74.00	-26.92	Peak
4	6815.551	10.64	35.79	42.15	48.32	52.60	68.20	-15.60	Peak
5	11457.000	12.10	37.89	38.47	42.43	53.95	74.00	-20.05	Peak
6	17185.500	16.29	42.71	40.33	43.08	61.75	68.20	-6.45	Peak

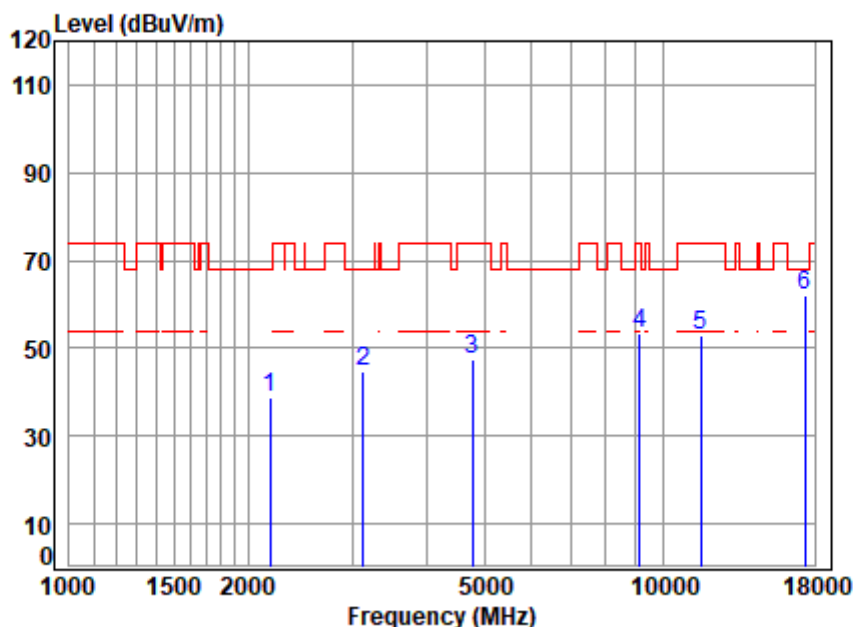
Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5728.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5728.5 TX RSE
Note : 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1888.687	5.02	27.40	40.94	47.09	38.57	68.20	-29.63 Peak
2	3034.063	6.02	30.96	41.45	48.37	43.90	68.20	-24.30 Peak
3	6488.754	11.52	35.59	42.41	47.89	52.59	68.20	-15.61 Peak
4	8392.292	10.20	36.94	40.55	47.13	53.72	74.00	-20.28 Peak
5	11457.000	12.10	37.89	38.47	42.38	53.90	74.00	-20.10 Peak
6	17185.500	16.29	42.71	40.33	43.42	62.09	68.20	-6.11 Peak

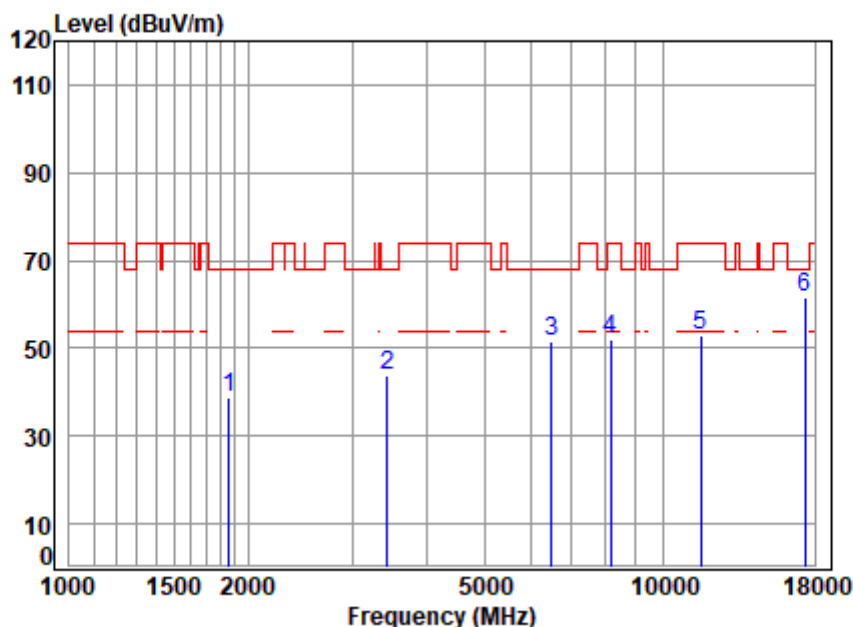
Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5784.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5784.5 TX RSE
Note : 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2176.047	5.17	28.14	41.08	46.42	38.65	68.20	-29.55 Peak
2	3132.079	6.11	31.12	41.60	49.11	44.74	68.20	-23.46 Peak
3	4776.419	7.86	33.94	43.59	49.24	47.45	74.00	-26.55 Peak
4	9126.063	10.47	37.30	39.23	44.65	53.19	74.00	-20.81 Peak
5	11569.000	12.17	37.87	38.52	41.23	52.75	74.00	-21.25 Peak
6	17353.500	15.92	42.81	40.30	43.72	62.15	68.20	-6.05 Peak

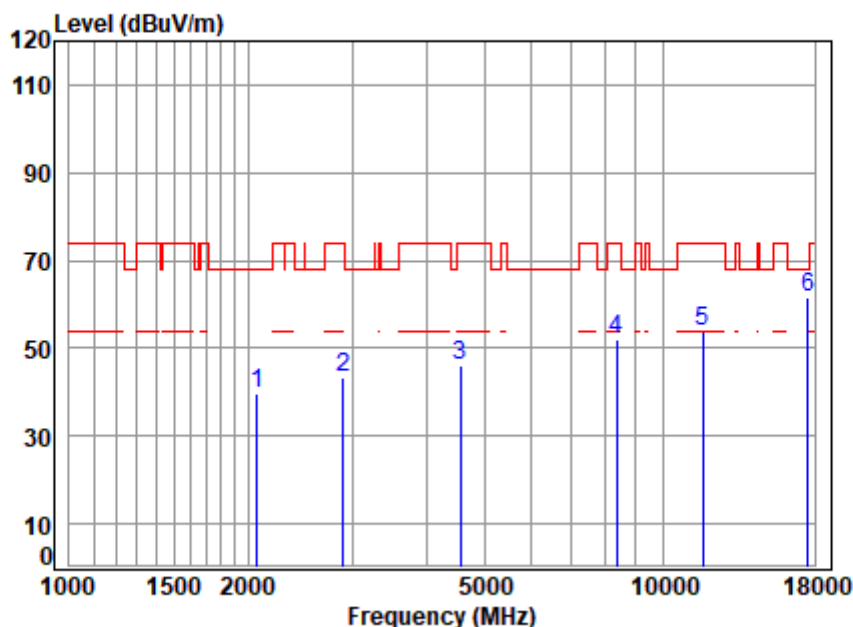
Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5784.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5784.5 TX RSE
Note : 1.4M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1856.215	5.05	27.28	40.92	47.39	38.80	68.20	-29.40	Peak
2	3435.590	6.40	31.60	42.04	47.82	43.78	68.20	-24.42	Peak
3	6488.754	11.52	35.59	42.41	47.05	51.75	68.20	-16.45	Peak
4	8153.195	10.05	36.79	41.00	46.03	51.87	74.00	-22.13	Peak
5	11569.000	12.17	37.87	38.52	41.58	53.10	74.00	-20.90	Peak
6	17353.500	15.92	42.81	40.30	43.30	61.73	68.20	-6.47	Peak

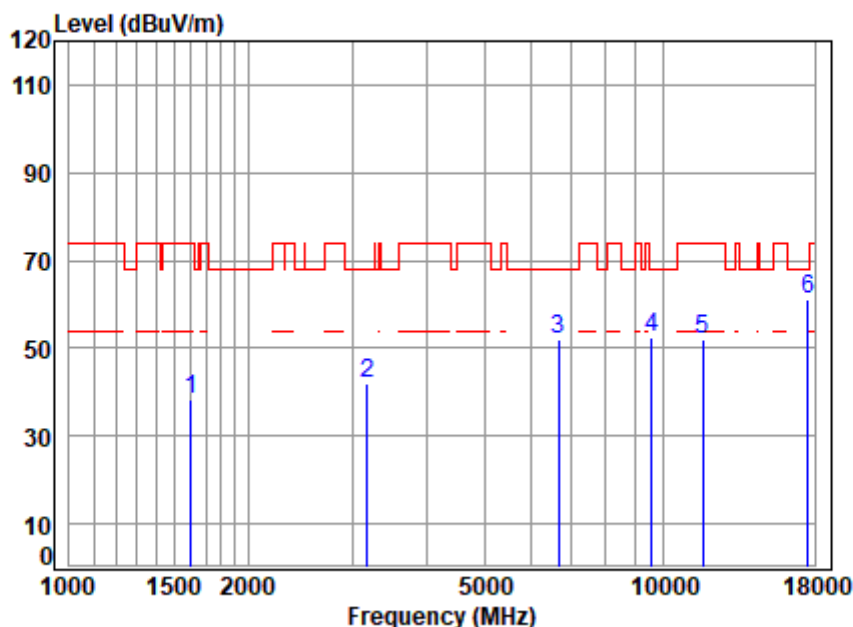
Mode:d; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:5844.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5844.5 TX RSE
Note : 1.4M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2071.708	5.01	27.94	41.03	47.66	39.58	68.20	-28.62	Peak
2	2896.945	5.91	30.48	41.37	48.50	43.52	74.00	-30.48	Peak
3	4560.559	7.63	33.68	43.37	48.05	45.99	74.00	-28.01	Peak
4	8343.918	10.17	36.91	40.64	45.73	52.17	74.00	-21.83	Peak
5	11689.000	12.21	37.82	38.57	42.44	53.90	74.00	-20.10	Peak
6	17533.500	15.64	42.94	40.27	43.45	61.76	68.20	-6.44	Peak

Mode:d; Polarization:Vertical; Bandwidth:1.4MHz; Channel:5844.5MHz

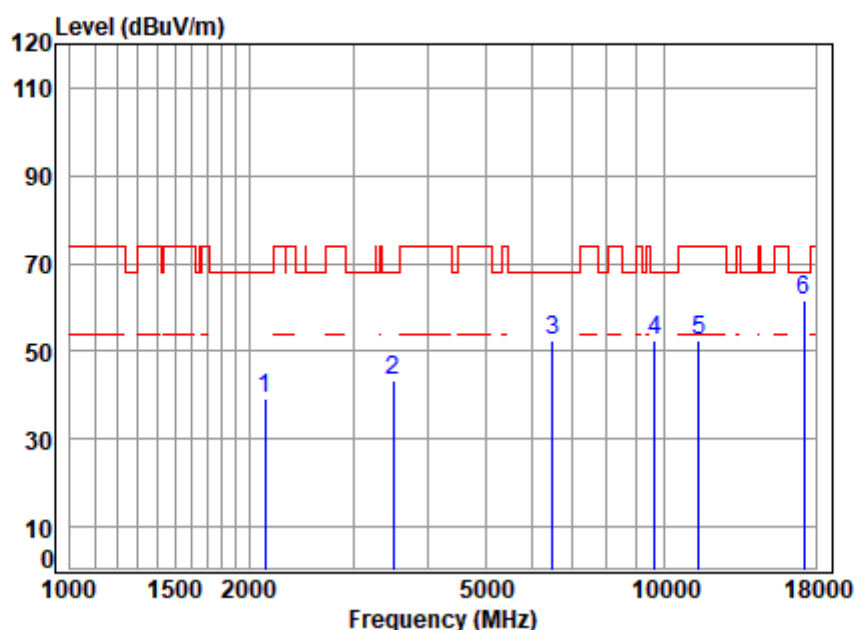


Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5844.5 TX RSE
Note : 1.4M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	5.35	26.26	40.77	47.48	38.32	74.00	-35.68	Peak
2	3177.672	6.16	31.20	41.67	46.41	42.10	68.20	-26.10	Peak
3	6659.763	11.08	35.70	42.28	47.56	52.06	68.20	-16.14	Peak
4	9558.018	10.72	37.64	38.51	42.51	52.36	68.20	-15.84	Peak
5	11689.000	12.21	37.82	38.57	40.37	51.83	74.00	-22.17	Peak
6	17533.500	15.64	42.94	40.27	42.78	61.09	68.20	-7.11	Peak

3MHz BW

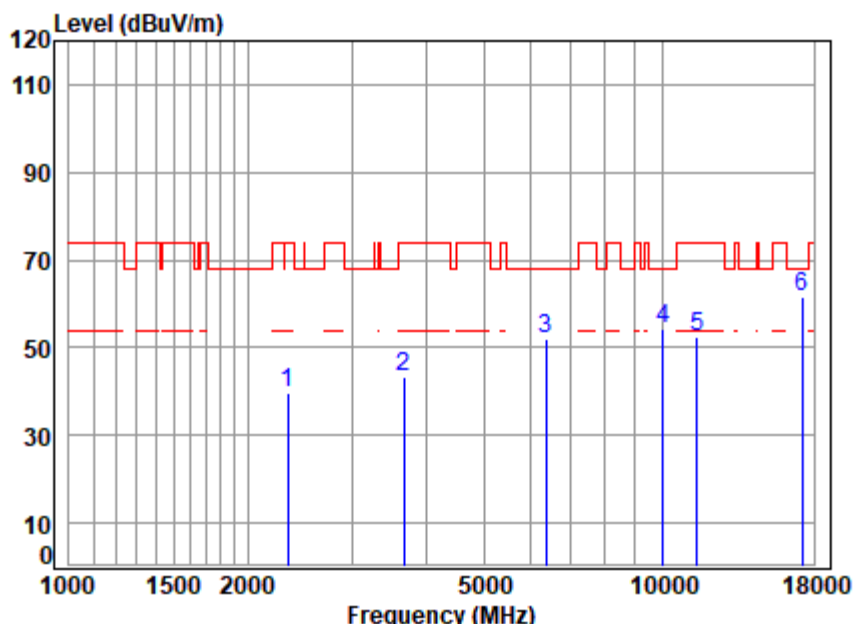
Mode:d; Polarization:Horizontal; Bandwidth:3MHz; Channel:5730.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5730.5 TX RSE
Note : 3M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2132.462	5.11	28.06	41.06	46.96	39.07	68.20	-29.13	Peak
2	3495.691	6.46	31.69	42.12	47.52	43.55	68.20	-24.65	Peak
3	6488.754	11.52	35.59	42.41	47.63	52.33	68.20	-15.87	Peak
4	9641.257	10.76	37.69	38.37	42.25	52.33	68.20	-15.87	Peak
5	11461.000	12.10	37.89	38.47	41.03	52.55	74.00	-21.45	Peak
6	17191.500	16.28	42.72	40.33	43.10	61.77	68.20	-6.43	Peak

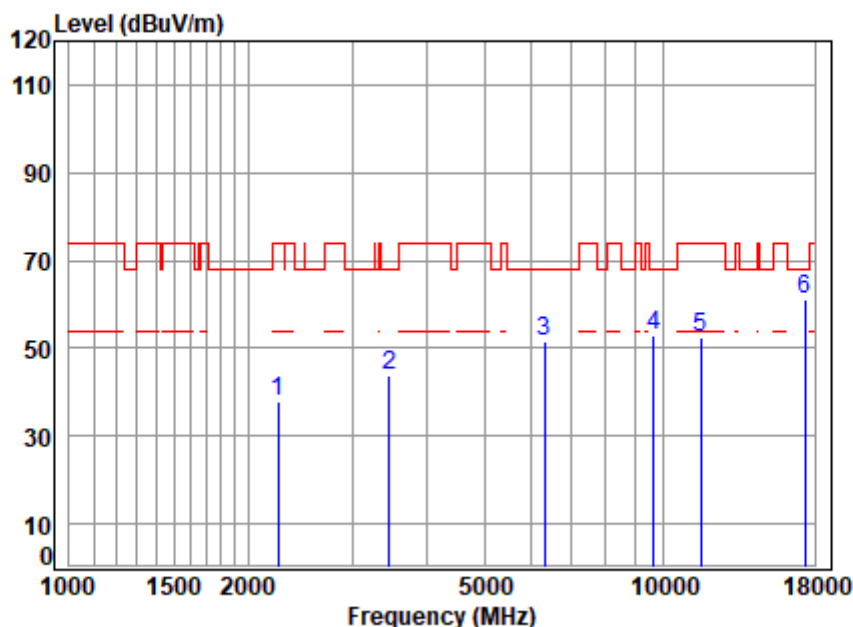
Mode:d; Polarization:Vertical; Bandwidth:3MHz; Channel:5730.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5730.5 TX RSE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2339.107	5.41	28.43	41.15	47.08	39.77	74.00	-34.23	Peak
2	3661.149	6.64	32.04	42.34	47.18	43.52	74.00	-30.48	Peak
3	6358.789	11.27	35.46	42.52	47.96	52.17	68.20	-16.03	Peak
4	10039.390	10.97	37.88	37.82	43.13	54.16	68.20	-14.04	Peak
5	11461.000	12.10	37.89	38.47	40.87	52.39	74.00	-21.61	Peak
6	17191.500	16.28	42.72	40.33	43.04	61.71	68.20	-6.49	Peak

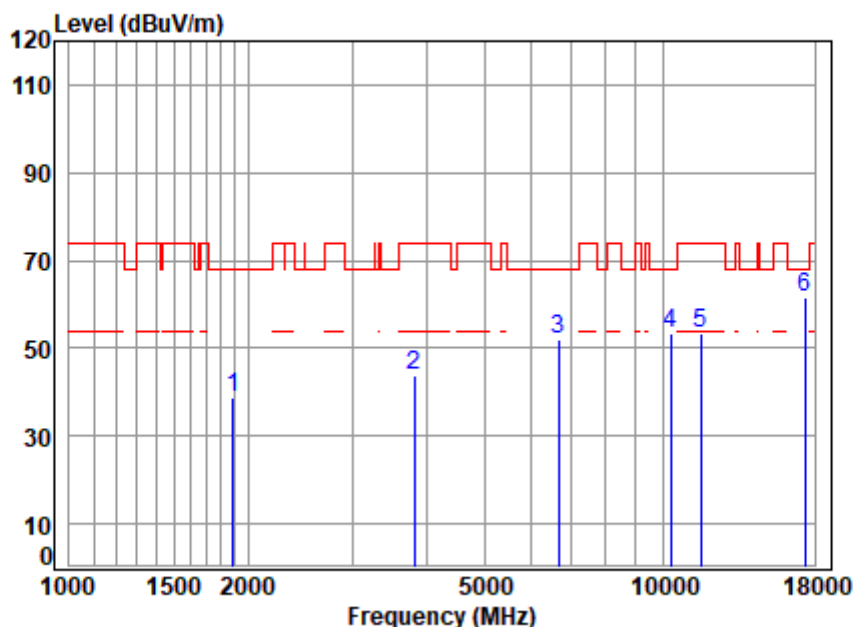
Mode:d; Polarization:Horizontal; Bandwidth:3MHz; Channel:5787.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5787.5 TX RSE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2246.344	5.27	28.27	41.11	45.45	37.88	74.00	-36.12	Peak
2	3455.508	6.42	31.63	42.06	47.98	43.97	68.20	-24.23	Peak
3	6322.136	11.20	35.43	42.55	47.31	51.39	68.20	-16.81	Peak
4	9641.257	10.76	37.69	38.37	42.95	53.03	68.20	-15.17	Peak
5	11575.000	12.17	37.87	38.52	41.03	52.55	74.00	-21.45	Peak
6	17362.500	15.90	42.82	40.30	42.61	61.03	68.20	-7.17	Peak

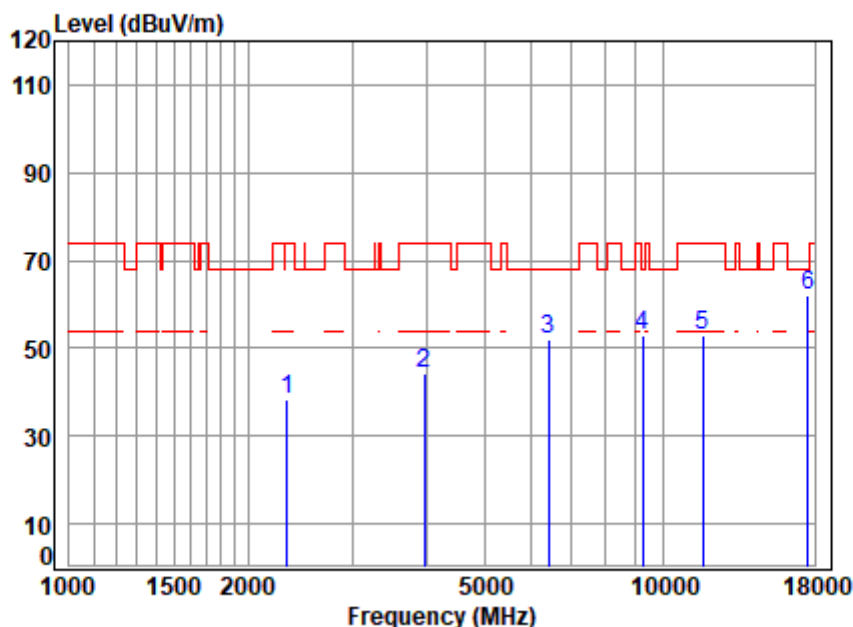
Mode:d; Polarization:Vertical; Bandwidth:3MHz; Channel:5787.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5787.5 TX RSE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1888.687	5.02	27.40	40.94	47.26	38.74	68.20	-29.46	Peak
2	3812.336	6.79	32.34	42.53	47.43	44.03	74.00	-29.97	Peak
3	6679.040	11.02	35.71	42.26	47.44	51.91	68.20	-16.29	Peak
4	10303.980	11.15	37.78	37.95	42.27	53.25	68.20	-14.95	Peak
5	11575.000	12.17	37.87	38.52	41.91	53.43	74.00	-20.57	Peak
6	17362.500	15.90	42.82	40.30	43.21	61.63	68.20	-6.57	Peak

Mode:d; Polarization:Horizontal; Bandwidth:3MHz; Channel:5844.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5844.5 TX RSE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2325.624	5.39	28.41	41.15	45.86	38.51	74.00	-35.49	Peak
2	3958.309	6.94	32.62	42.70	47.46	44.32	74.00	-29.68	Peak
3	6414.167	11.38	35.52	42.48	47.42	51.84	68.20	-16.36	Peak
4	9258.909	10.55	37.41	39.01	43.86	52.81	68.20	-15.39	Peak
5	11689.000	12.21	37.82	38.57	41.36	52.82	74.00	-21.18	Peak
6	17533.500	15.64	42.94	40.27	43.63	61.94	68.20	-6.26	Peak

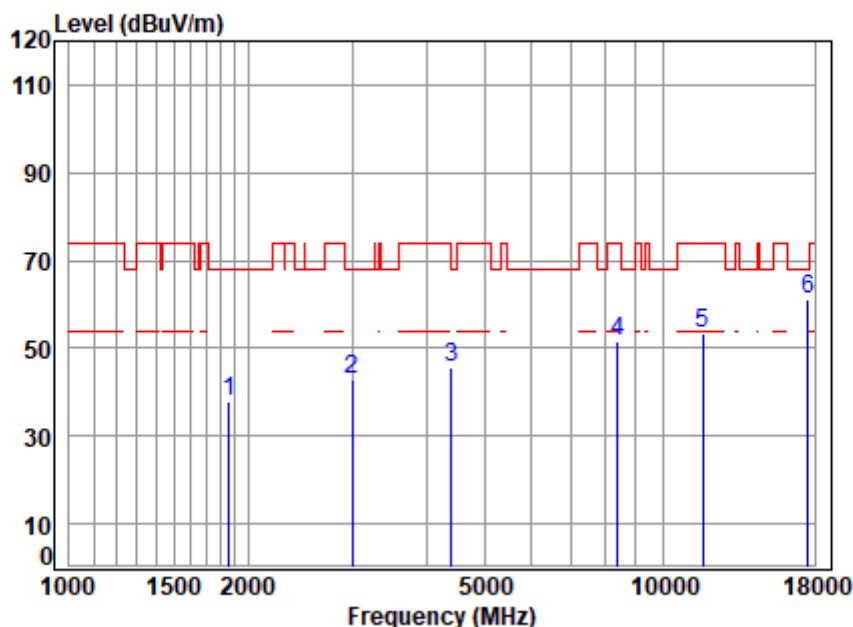


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Mode:d; Polarization:Vertical; Bandwidth:3MHz; Channel:5844.5MHz

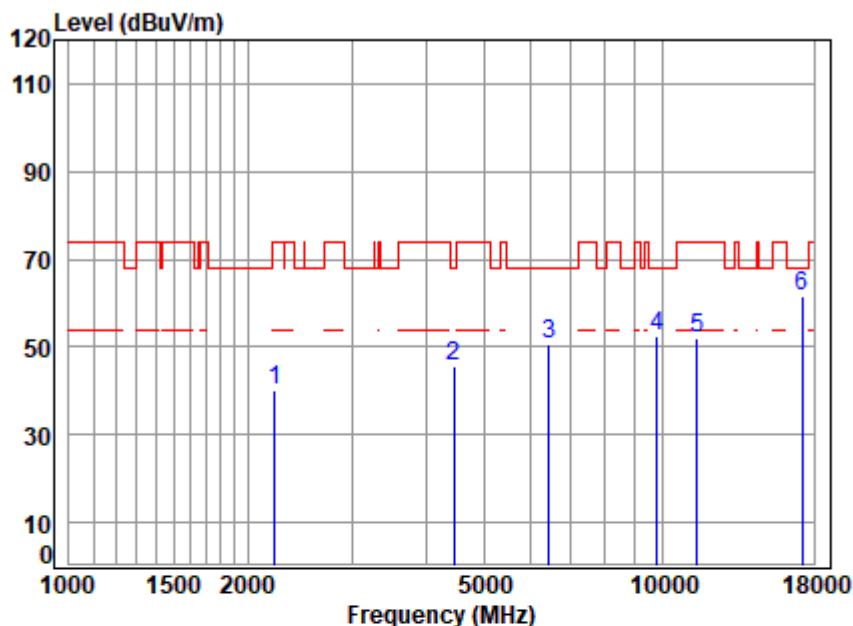


Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5844.5 TX RSE
Note : 3M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1861.588	5.04	27.30	40.92	46.47	37.89	68.20	-30.31	Peak
2	2999.187	5.98	30.90	41.40	47.27	42.75	68.20	-25.45	Peak
3	4405.090	7.46	33.44	43.20	48.14	45.84	68.20	-22.36	Peak
4	8392.292	10.20	36.94	40.55	45.01	51.60	74.00	-22.40	Peak
5	11689.000	12.21	37.82	38.57	41.75	53.21	74.00	-20.79	Peak
6	17533.500	15.64	42.94	40.27	43.03	61.34	68.20	-6.86	Peak

10MHz BW

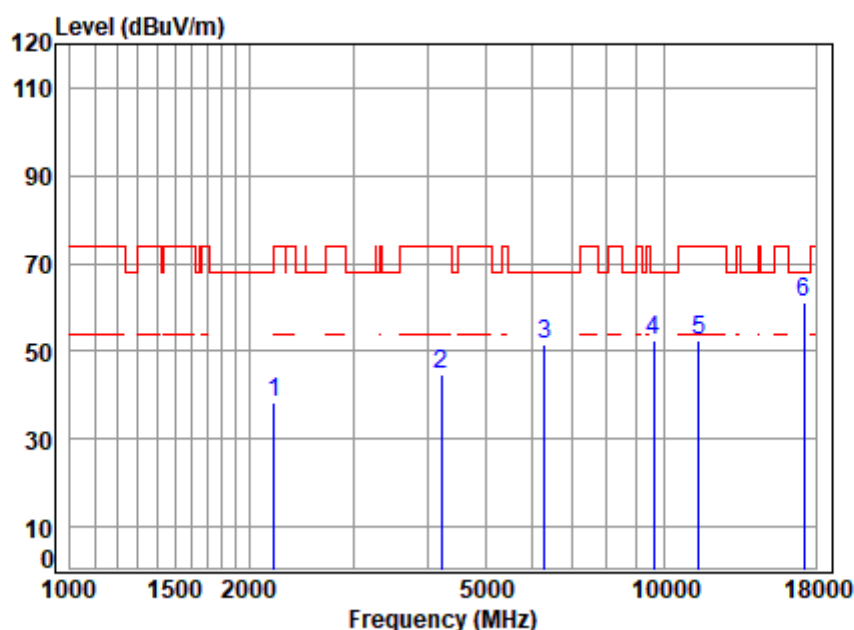
Mode:d; Polarization:Horizontal; Bandwidth:10 MHz; Channel:5732.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5732.5 TX RSE
Note : 10M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2220.523	5.24	28.22	41.10	47.63	39.99	74.00	-34.01	Peak
2	4456.315	7.51	33.53	43.26	47.73	45.51	68.20	-22.69	Peak
3	6451.353	11.45	35.55	42.44	46.29	50.85	68.20	-17.35	Peak
4	9781.603	10.83	37.77	38.15	42.08	52.53	68.20	-15.67	Peak
5	11465.000	12.11	37.89	38.47	40.62	52.15	74.00	-21.85	Peak
6	17197.500	16.27	42.72	40.33	43.11	61.77	68.20	-6.43	Peak

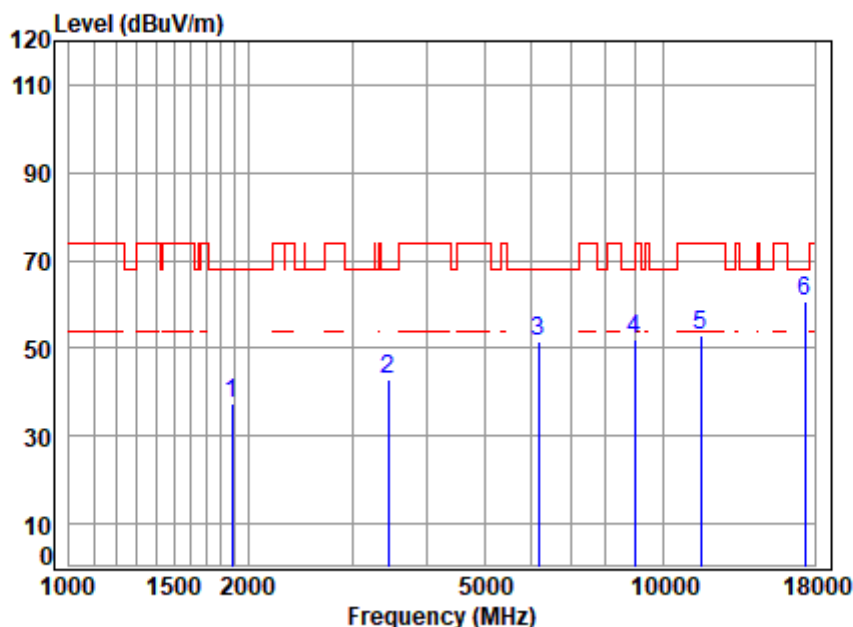
Mode:d; Polarization:Vertical; Bandwidth:10 MHz; Channel:5732.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5732.5 TX RSE
Note : 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2201.352	5.21	28.19	41.09	46.08	38.39	74.00	-35.61	Peak
2	4218.186	7.24	33.11	43.00	47.30	44.65	74.00	-29.35	Peak
3	6303.890	11.17	35.41	42.57	47.64	51.65	68.20	-16.55	Peak
4	9613.430	10.75	37.67	38.42	42.28	52.28	68.20	-15.92	Peak
5	11465.000	12.11	37.89	38.47	41.05	52.58	74.00	-21.42	Peak
6	17197.500	16.27	42.72	40.33	42.69	61.35	68.20	-6.85	Peak

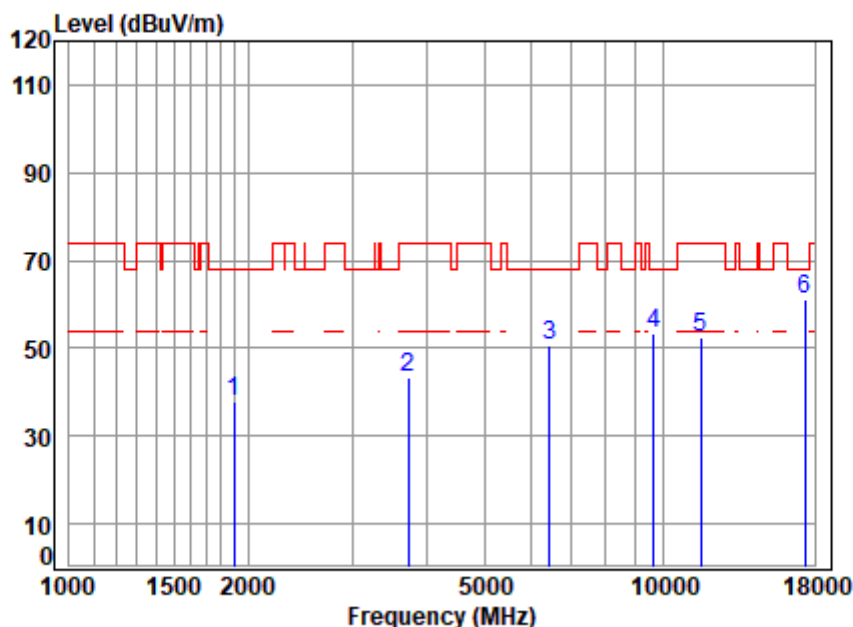
Mode:d; Polarization:Horizontal; Bandwidth:10 MHz; Channel:5787.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5787.5 TX RSE
Note : 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1883.236	5.02	27.38	40.93	46.00	37.47	68.20	-30.73	Peak
2	3445.535	6.41	31.62	42.05	46.88	42.86	68.20	-25.34	Peak
3	6159.797	10.89	35.26	42.69	48.13	51.59	68.20	-16.61	Peak
4	8969.161	10.39	37.19	39.51	44.13	52.20	68.20	-16.00	Peak
5	11575.000	12.17	37.87	38.52	41.19	52.71	74.00	-21.29	Peak
6	17362.500	15.90	42.82	40.30	42.32	60.74	68.20	-7.46	Peak

Mode:d; Polarization:Vertical; Bandwidth:10 MHz; Channel:5787.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5787.5 TX RSE
Note : 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1894.154	5.01	27.42	40.94	46.20	37.69	68.20	-30.51	Peak
2	3725.195	6.70	32.17	42.42	46.81	43.26	74.00	-30.74	Peak
3	6432.732	11.41	35.54	42.46	46.30	50.79	68.20	-17.41	Peak
4	9641.257	10.76	37.69	38.37	43.19	53.27	68.20	-14.93	Peak
5	11575.000	12.17	37.87	38.52	40.88	52.40	74.00	-21.60	Peak
6	17362.500	15.90	42.82	40.30	42.57	60.99	68.20	-7.21	Peak

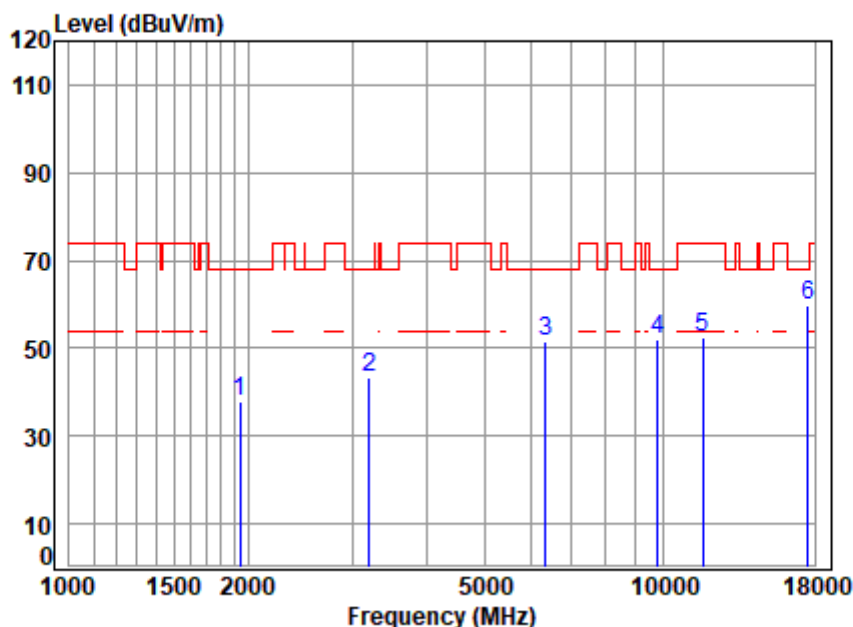


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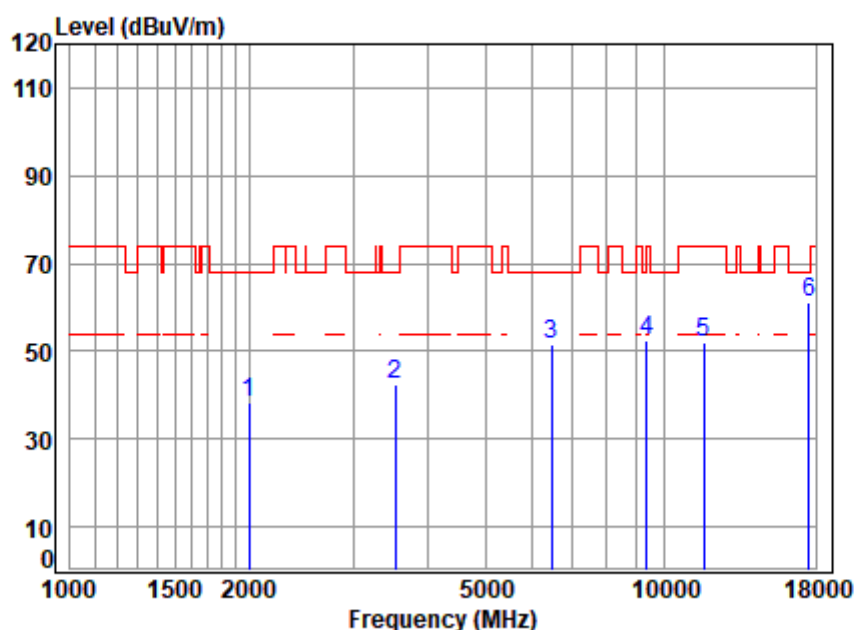
Mode:d; Polarization:Horizontal; Bandwidth:10 MHz; Channel:5844.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5844.5 TX RSE
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1938.463	4.96	27.58	40.96	46.48	38.06	68.20	-30.14 Peak
2	3205.345	6.19	31.24	41.71	47.50	43.22	68.20	-24.98 Peak
3	6340.436	11.24	35.44	42.54	47.48	51.62	68.20	-16.58 Peak
4	9809.916	10.85	37.79	38.10	41.61	52.15	68.20	-16.05 Peak
5	11689.000	12.21	37.82	38.57	40.80	52.26	74.00	-21.74 Peak
6	17533.500	15.64	42.94	40.27	41.59	59.90	68.20	-8.30 Peak

Mode:d; Polarization:Vertical; Bandwidth:10 MHz; Channel:5844.5MHz

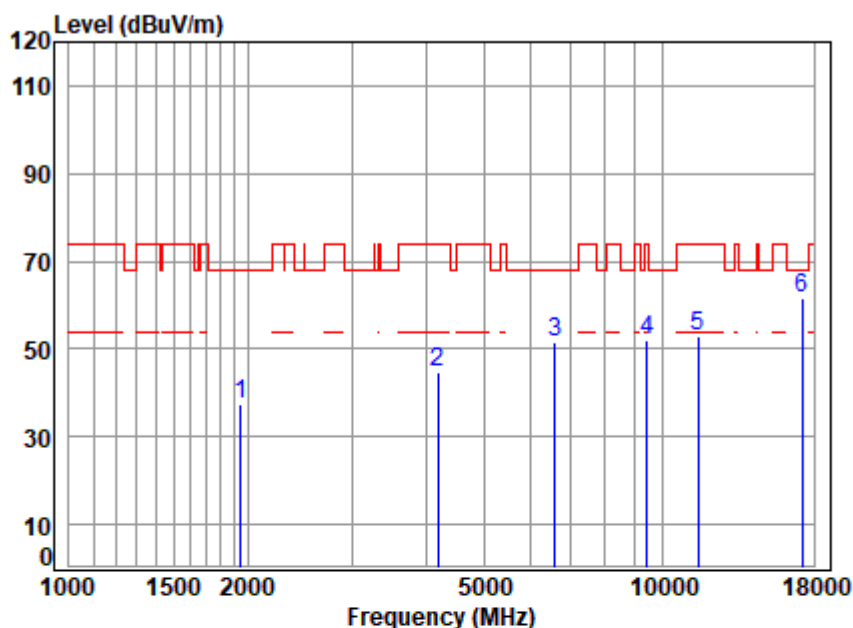


Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5844.5 TX RSE
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2001.084	4.90	27.80	40.99	46.66	38.37	68.20	-29.83 Peak
2	3526.134	6.49	31.76	42.16	46.33	42.42	68.20	-25.78 Peak
3	6470.026	11.48	35.57	42.43	47.04	51.66	68.20	-16.54 Peak
4	9366.577	10.61	37.50	38.83	43.42	52.70	74.00	-21.30 Peak
5	11689.000	12.21	37.82	38.57	40.63	52.09	74.00	-21.91 Peak
6	17533.500	15.64	42.94	40.27	42.72	61.03	68.20	-7.17 Peak

20MHz BW

Mode:d; Polarization:Horizontal; Bandwidth:20 MHz; Channel:5735.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5735.5 TX RSE
Note : 20M

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1944.073	4.96	27.60	40.97	45.78	37.37	68.20	-30.83	Peak
2	4181.768	7.20	33.04	42.96	47.46	44.74	74.00	-29.26	Peak
3	6583.209	11.30	35.65	42.34	47.13	51.74	68.20	-16.46	Peak
4	9420.880	10.65	37.54	38.74	42.58	52.03	74.00	-21.97	Peak
5	11471.000	12.11	37.89	38.48	41.41	52.93	74.00	-21.07	Peak
6	17206.500	16.25	42.72	40.32	42.73	61.38	68.20	-6.82	Peak

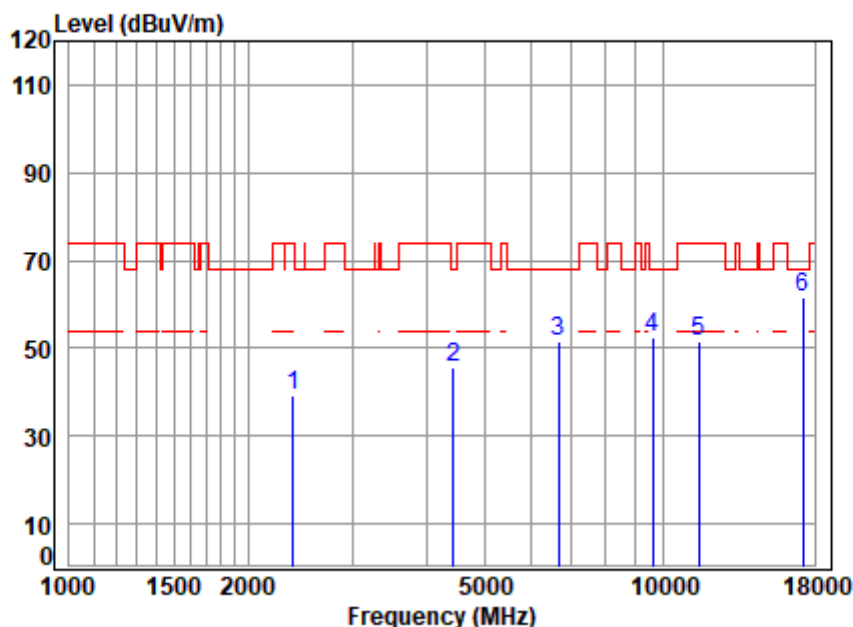


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Mode:d; Polarization:Vertical; Bandwidth:20 MHz; Channel:5735.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5735.5 TX RSE
Note : 20M

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2386.915	5.47	28.51	41.17	46.49	39.30	74.00	-34.70	Peak
4443.453	7.50	33.50	43.25	47.73	45.48	68.20	-22.72	Peak
6659.763	11.08	35.70	42.28	47.10	51.60	68.20	-16.60	Peak
9613.430	10.75	37.67	38.42	42.63	52.63	68.20	-15.57	Peak
11471.000	12.11	37.89	38.48	40.06	51.58	74.00	-22.42	Peak
17206.500	16.25	42.72	40.32	42.82	61.47	68.20	-6.73	Peak

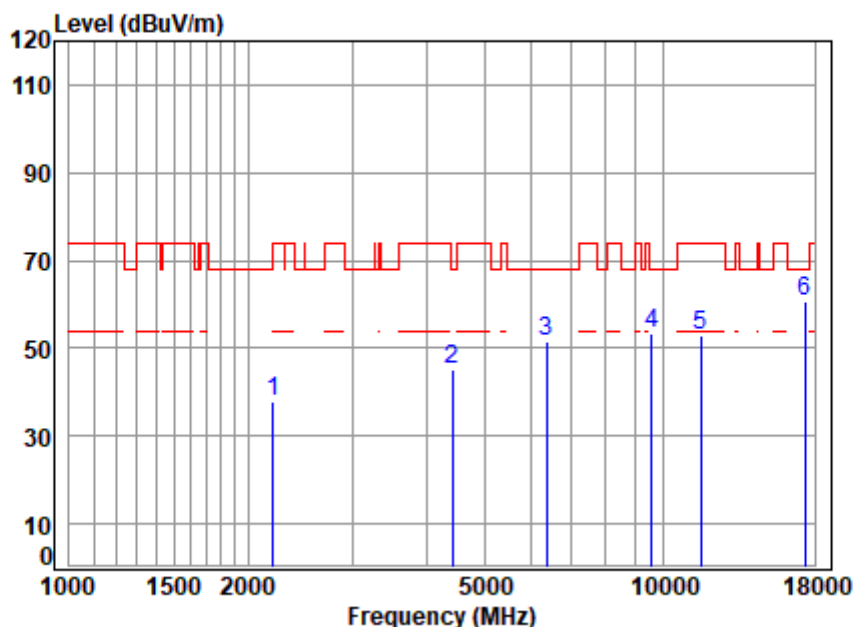


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Mode:d; Polarization:Horizontal; Bandwidth:20 MHz; Channel:5787.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5787.5 TX RSE
Note : 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2207.723	5.22	28.20	41.09	45.54	37.87	74.00	-36.13	Peak
2	4417.841	7.47	33.46	43.22	47.39	45.10	68.20	-23.10	Peak
3	6377.195	11.31	35.48	42.51	47.40	51.68	68.20	-16.52	Peak
4	9558.018	10.72	37.64	38.51	43.44	53.29	68.20	-14.91	Peak
5	11575.000	12.17	37.87	38.52	41.59	53.11	74.00	-20.89	Peak
6	17362.500	15.90	42.82	40.30	42.38	60.80	68.20	-7.40	Peak

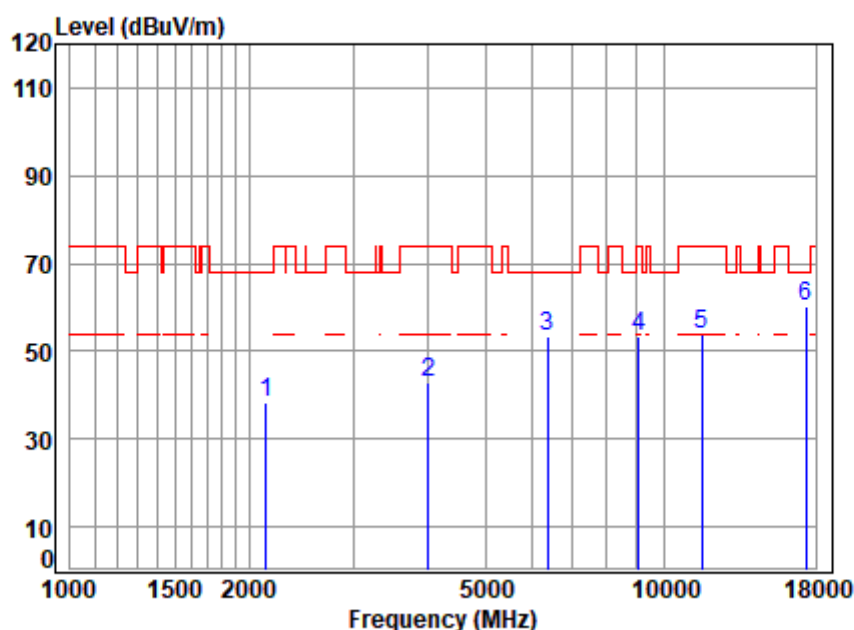


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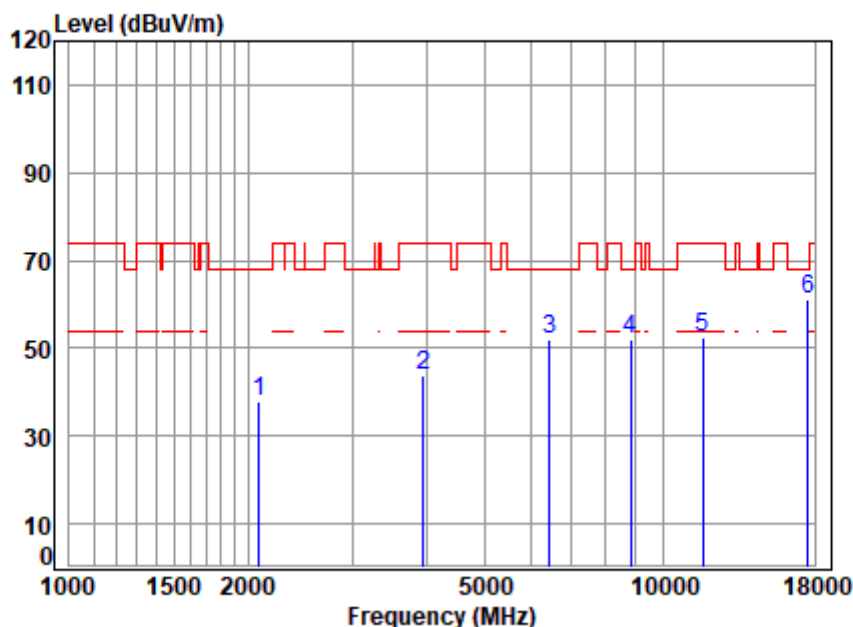
Mode:d; Polarization:Vertical; Bandwidth:20 MHz; Channel:5787.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5787.5 TX RSE
Note : 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2138.635	5.12	28.07	41.06	46.08	38.21	68.20	-29.99	Peak
2	4015.929	7.00	32.73	42.77	46.12	43.08	74.00	-30.92	Peak
3	6358.789	11.27	35.46	42.52	49.05	53.26	68.20	-14.94	Peak
4	9073.460	10.44	37.26	39.33	44.93	53.30	74.00	-20.70	Peak
5	11575.000	12.17	37.87	38.52	42.23	53.75	74.00	-20.25	Peak
6	17362.500	15.90	42.82	40.30	42.01	60.43	68.20	-7.77	Peak

Mode:d; Polarization:Horizontal; Bandwidth:20 MHz; Channel:5839.5MHz



Site : chamber
Condition: 3m HORIZONTAL
Job No : 21064CR/21066CR
Mode : 5839.5 TX RSE
Note : 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2089.751	5.04	27.98	41.04	45.91	37.89	68.20	-30.31	Peak
2	3946.885	6.93	32.60	42.69	46.74	43.58	74.00	-30.42	Peak
3	6451.353	11.45	35.55	42.44	47.31	51.87	68.20	-16.33	Peak
4	8814.957	10.35	37.13	39.78	44.49	52.19	68.20	-16.01	Peak
5	11679.000	12.21	37.83	38.57	41.02	52.49	74.00	-21.51	Peak
6	17518.500	15.62	42.92	40.27	42.67	60.94	68.20	-7.26	Peak

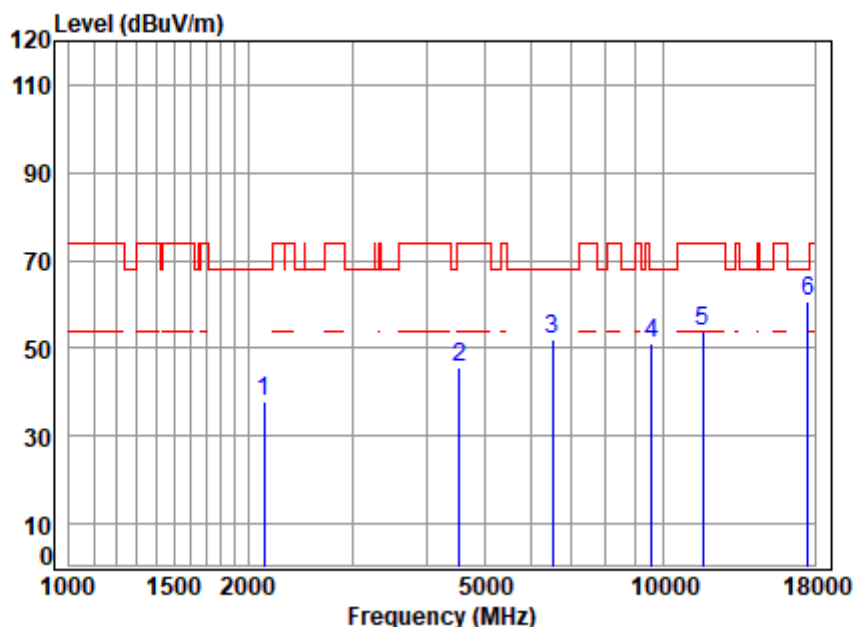


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Mode:d; Polarization:Vertical; Bandwidth:20 MHz; Channel:5839.5MHz



Site : chamber
Condition: 3m VERTICAL
Job No : 21064CR/21066CR
Mode : 5839.5 TX RSE
Note : 20M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2132.462	5.11	28.06	41.06	45.66	37.77	68.20	-30.43	Peak
2	4534.271	7.60	33.64	43.34	47.95	45.85	74.00	-28.15	Peak
3	6526.373	11.46	35.62	42.38	47.25	51.95	68.20	-16.25	Peak
4	9558.018	10.72	37.64	38.51	41.42	51.27	68.20	-16.93	Peak
5	11679.000	12.21	37.83	38.57	42.51	53.98	74.00	-20.02	Peak
6	17518.500	15.62	42.92	40.27	42.46	60.73	68.20	-7.47	Peak



7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g) & RSS-Gen Section 6.11
Test Method: ANSI C63.10 (2013) Section 6.8
Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 40 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

7.9.1 E.U.T. Operation

N/A

7.9.2 Test Setup Diagram

N/A

7.9.3 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) & RSS-Gen Section 6.11 requirements.



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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



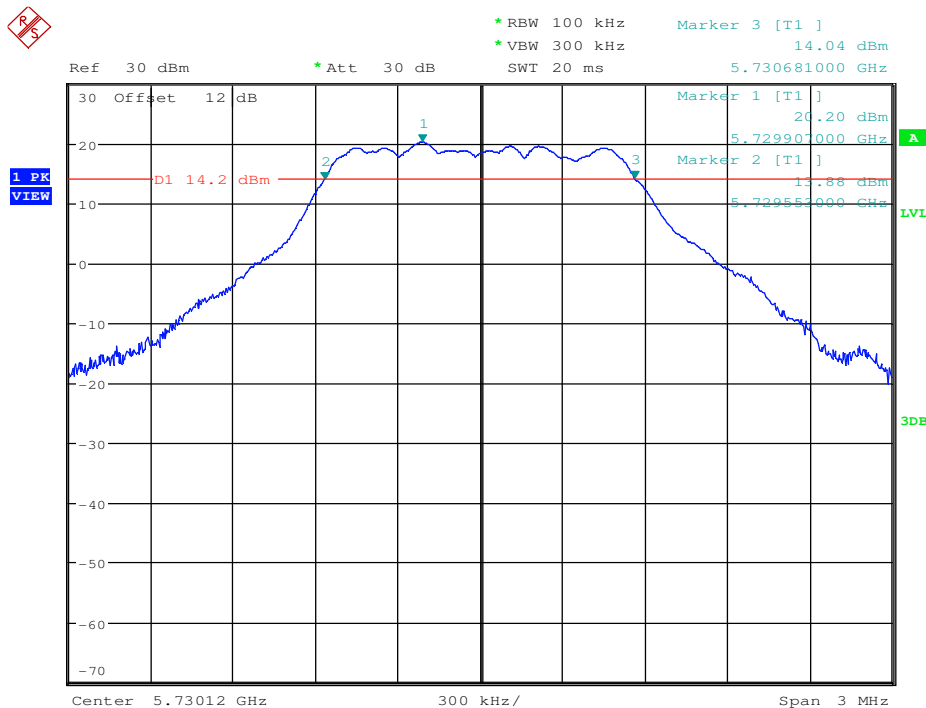
9 Appendix

9.1 Appendix RSS247

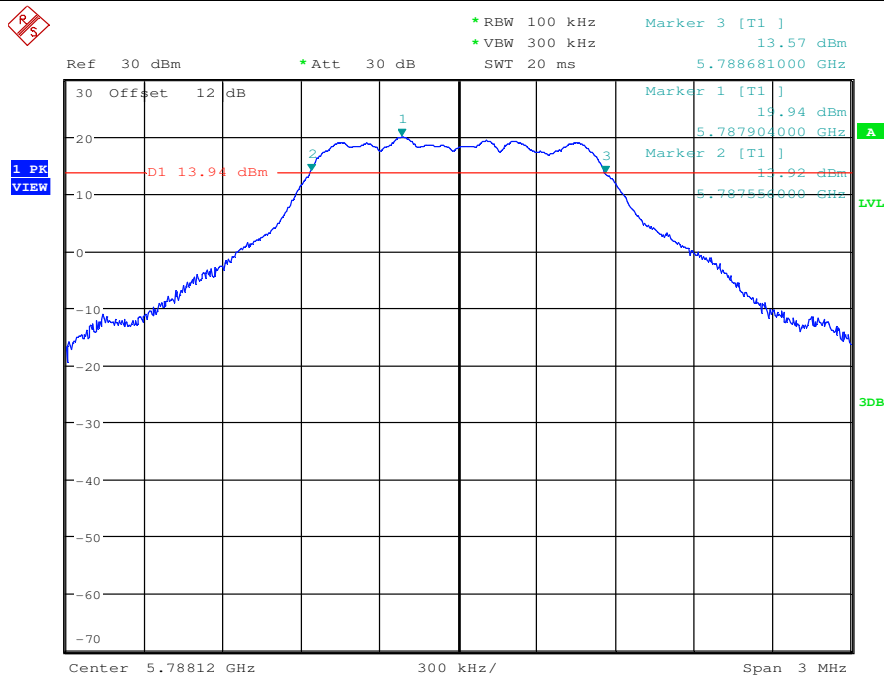
1.Emission Bandwidth Measurement

Test Mode	Test Channel(MHz)	Ant	EBW[MHz]	Limit[MHz]	Verdict
1.4MHz BW CA	5730.12	Ant1	1.128	≥ 0.5	PASS
1.4MHz BW CA	5788.12	Ant1	1.125	≥ 0.5	PASS
1.4MHz BW CA	5846.12	Ant1	1.128	≥ 0.5	PASS
1.4MHz BW	5728.5	Ant1	1.107	≥ 0.5	PASS
1.4MHz BW	5784.5	Ant1	1.104	≥ 0.5	PASS
1.4MHz BW	5844.5	Ant1	1.104	≥ 0.5	PASS
3MHz BW	5730.5	Ant1	2.180	≥ 0.5	PASS
3MHz BW	5787.5	Ant1	2.185	≥ 0.5	PASS
3MHz BW	5844.5	Ant1	2.195	≥ 0.5	PASS
10MHz BW	5732.5	Ant1	9.040	≥ 0.5	PASS
10MHz BW	5787.5	Ant1	9.040	≥ 0.5	PASS
10MHz BW	5844.5	Ant1	9.040	≥ 0.5	PASS
20MHz BW	5735.5	Ant1	17.960	≥ 0.5	PASS
20MHz BW	5787.5	Ant1	18.080	≥ 0.5	PASS
20MHz BW	5839.5	Ant1	18.040	≥ 0.5	PASS

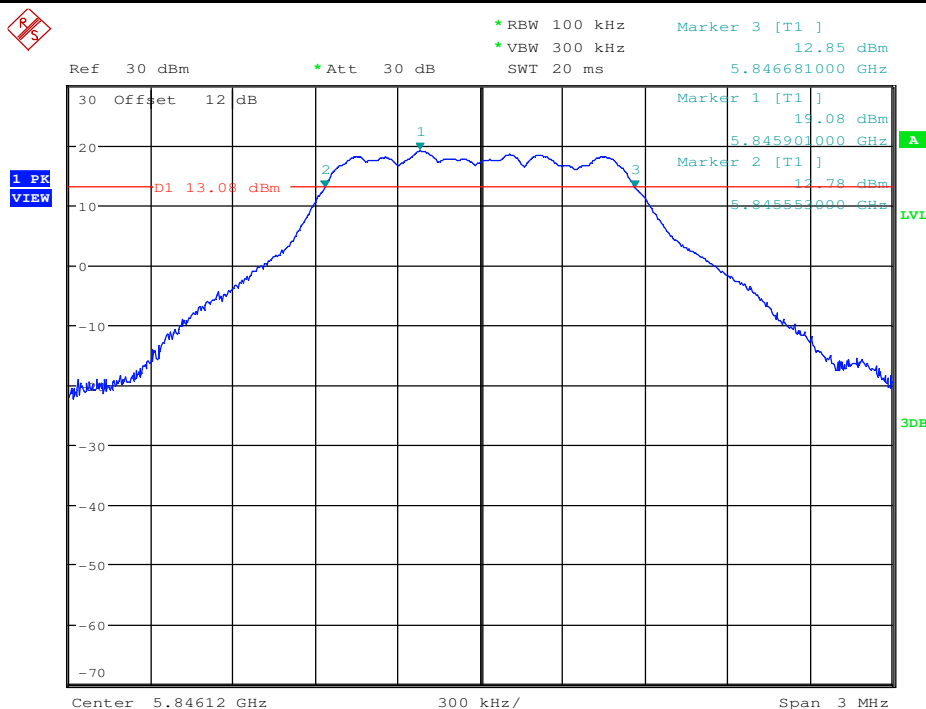
Emission Bandwidth Measurement_1.4MHz BW_5730.12_Ant1



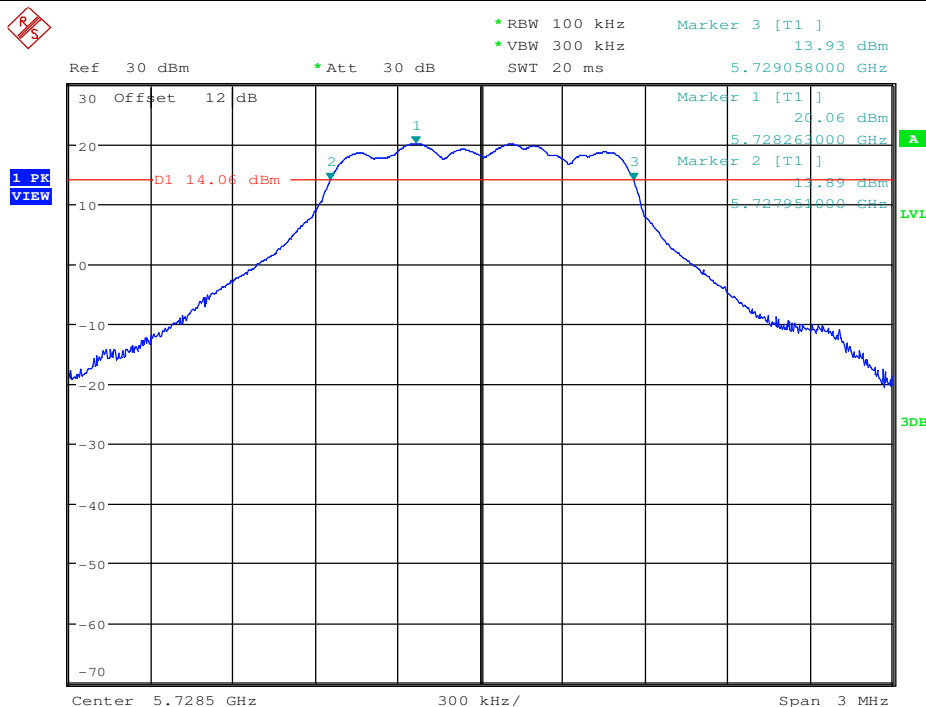
Emission Bandwidth Measurement_1.4MHz BW_5788.12_Ant1



Emission Bandwidth Measurement_1.4MHz BW_5846.12_Ant1



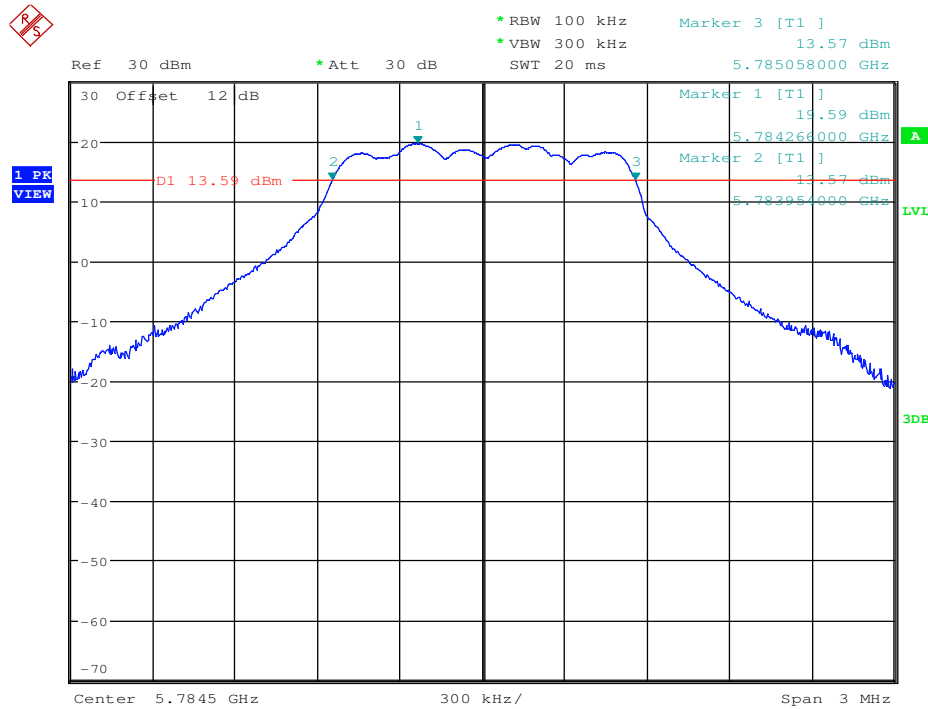
Emission Bandwidth Measurement_1.4MHz BW_5728.5_Ant1



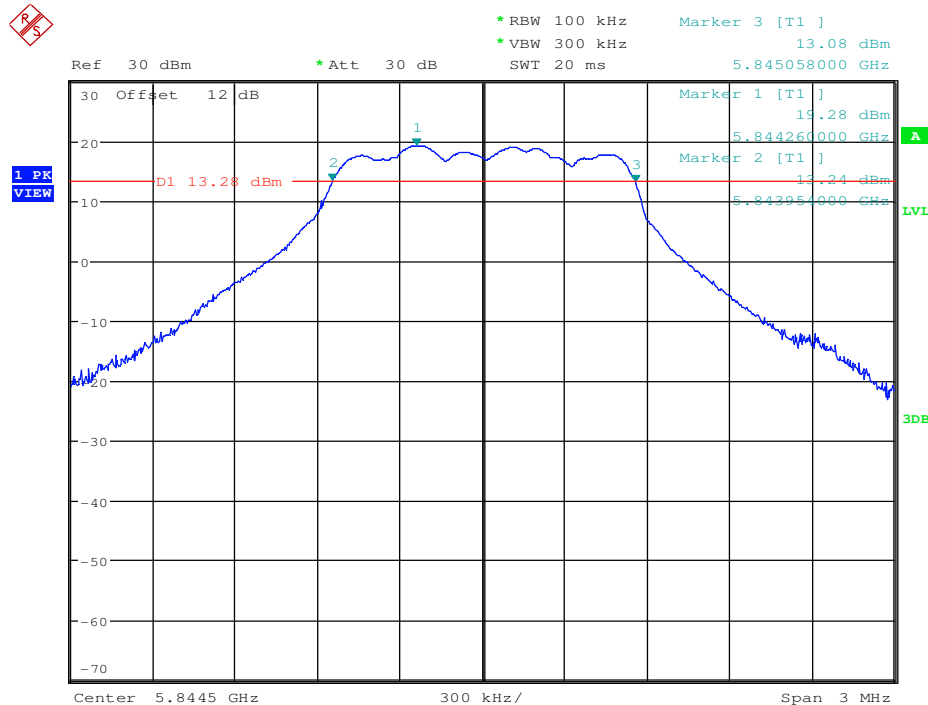
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Emission Bandwidth Measurement_1.4MHz BW_5784.5_Ant1

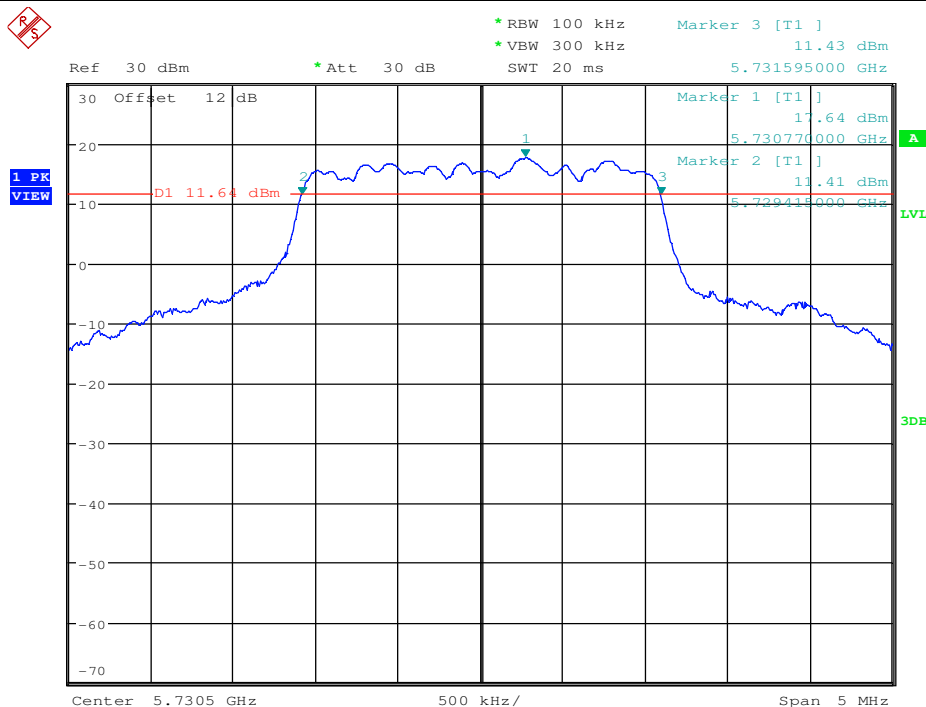


Emission Bandwidth Measurement_1.4MHz BW_5844.5_Ant1

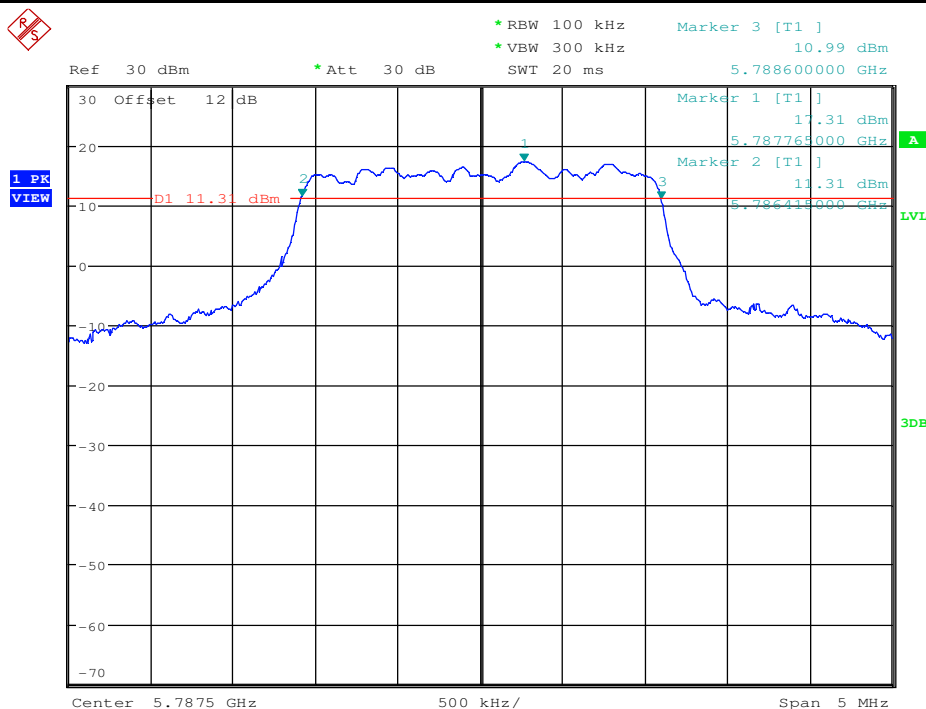


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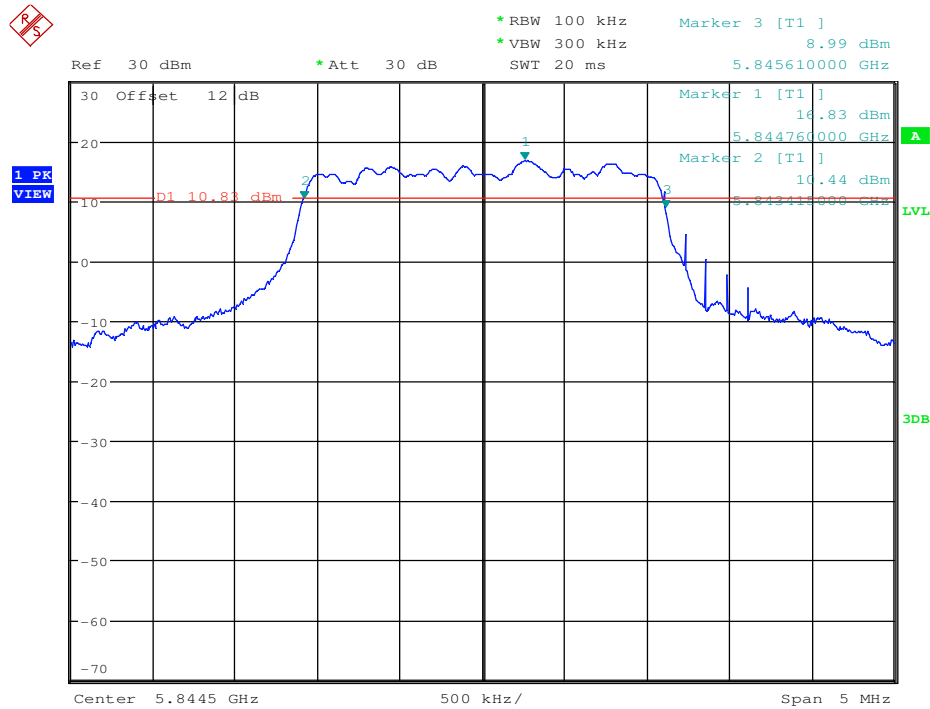
Emission Bandwidth Measurement_3MHz BW_5730.5_Ant1



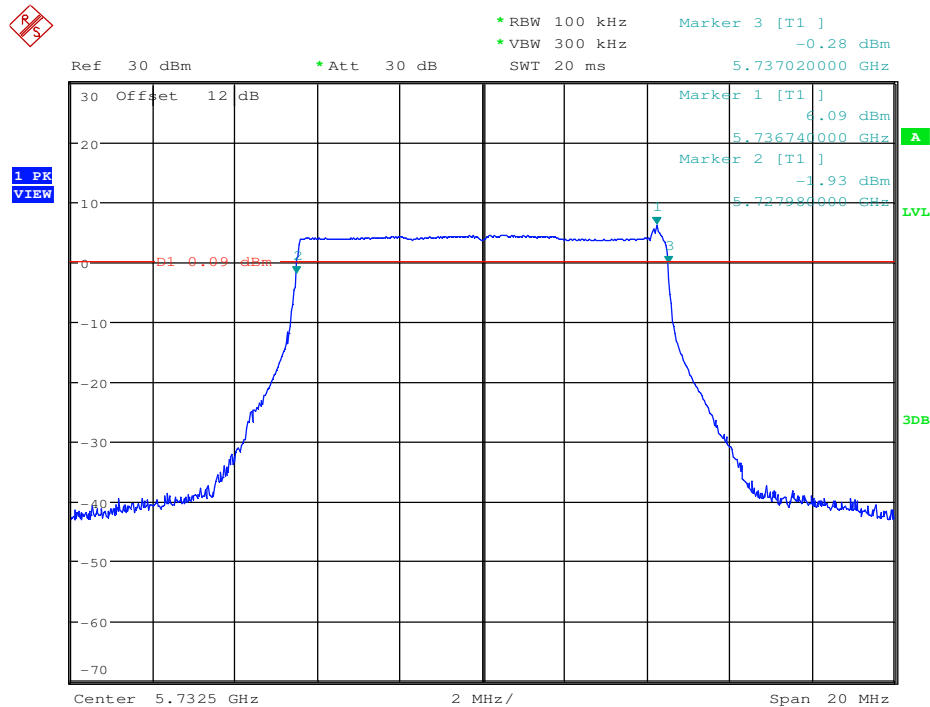
Emission Bandwidth Measurement_3MHz BW_5787.5_Ant1



Emission Bandwidth Measurement_3MHz BW_5844.5_Ant1



Emission Bandwidth Measurement_10MHz BW_5732.5_Ant1

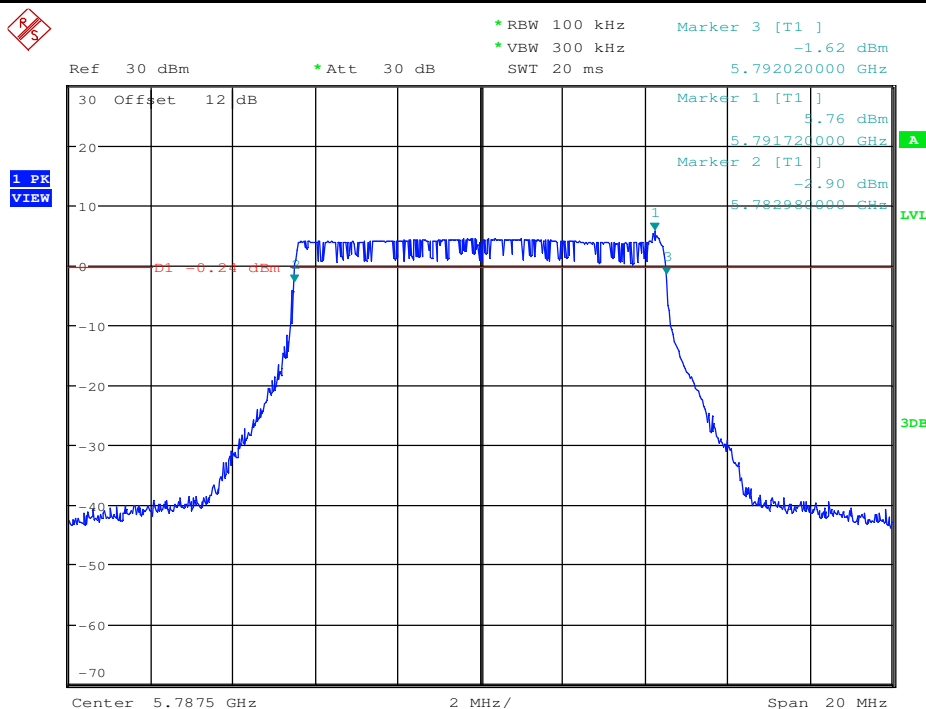


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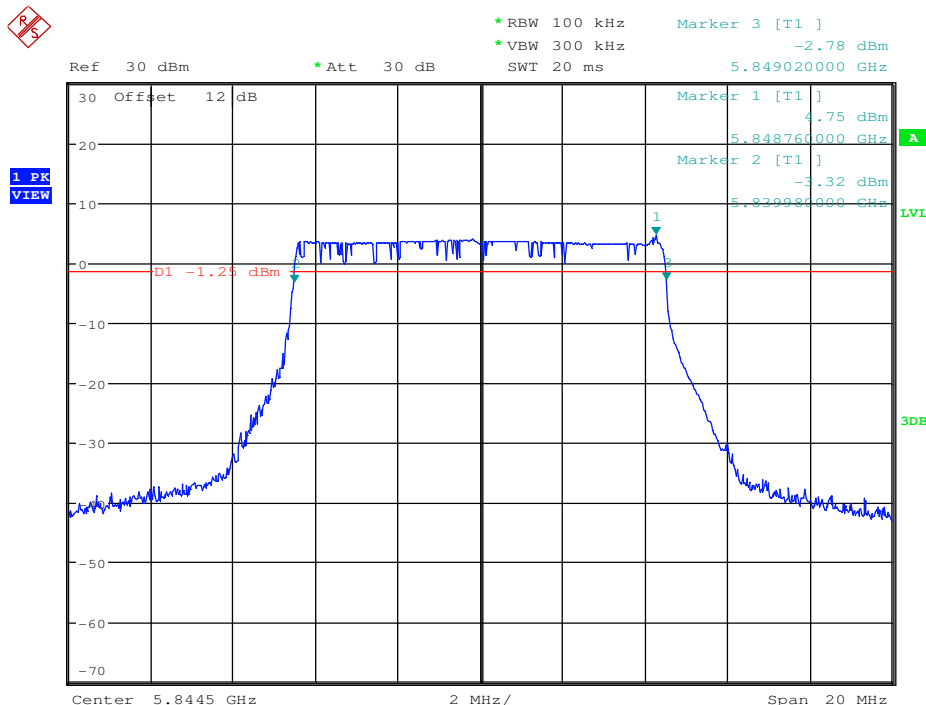
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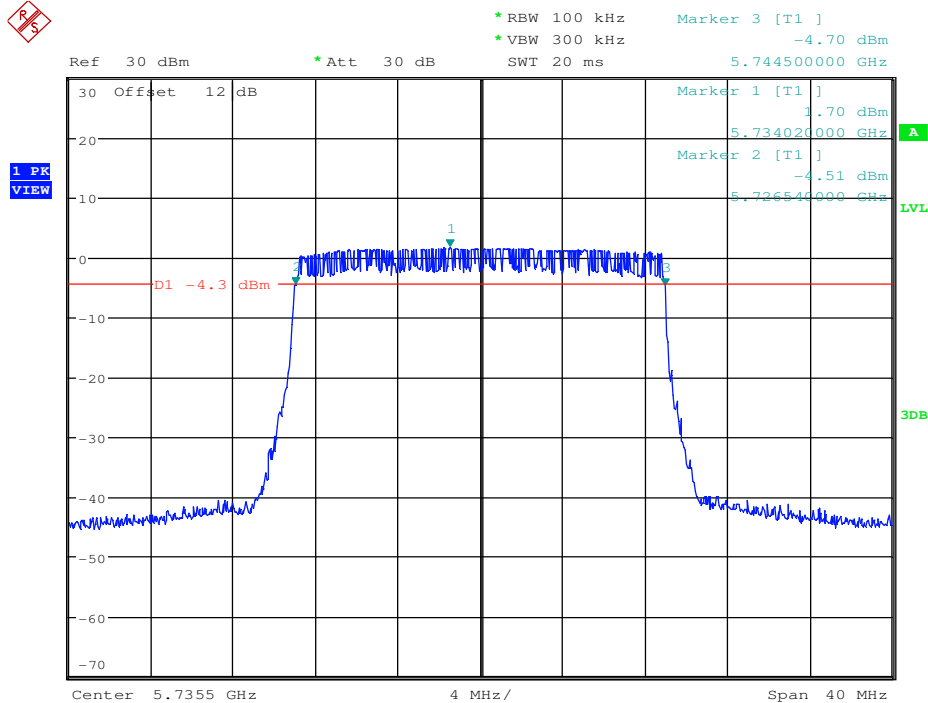
Emission Bandwidth Measurement_10MHz BW_5787.5_Ant1



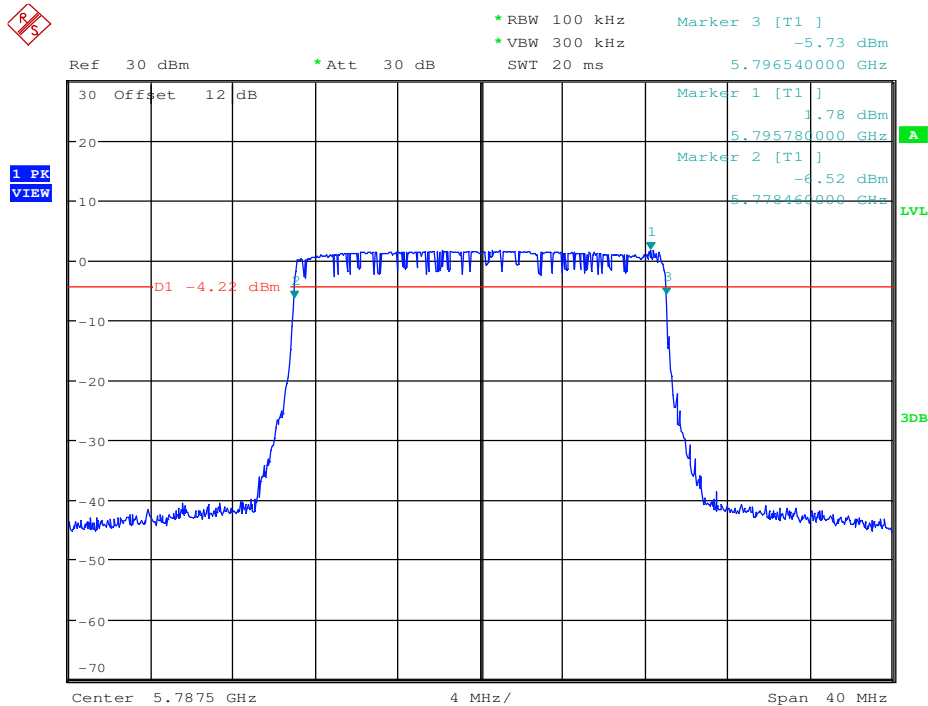
Emission Bandwidth Measurement_10MHz BW_5844.5_Ant1



Emission Bandwidth Measurement_20MHz BW_5735.5_Ant1



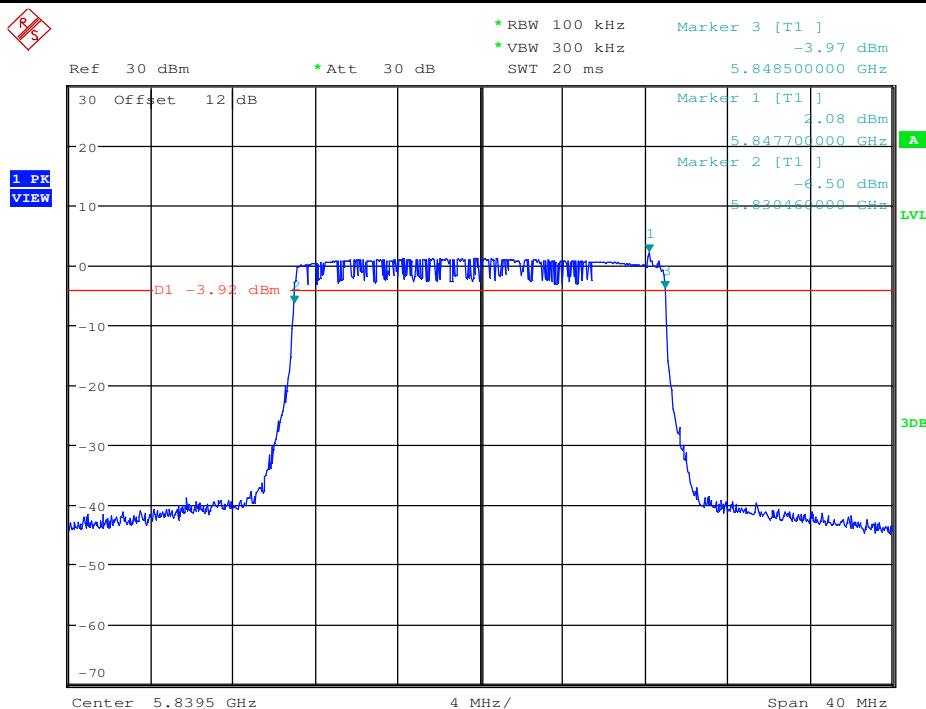
Emission Bandwidth Measurement_20MHz BW_5787.5_Ant1



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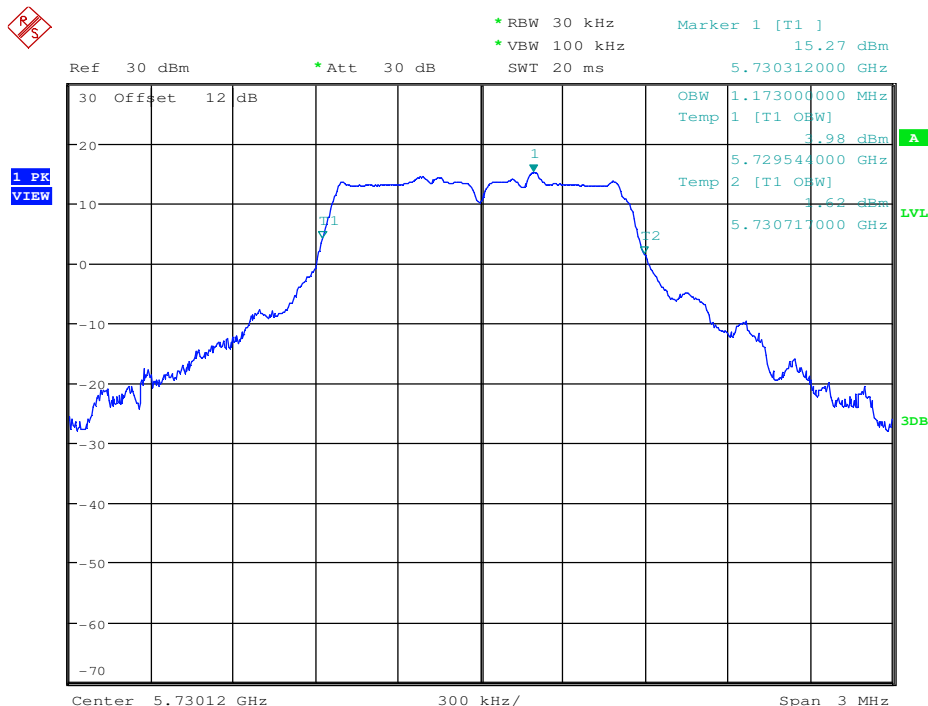
Emission Bandwidth Measurement_20MHz BW_5839.5_Ant1



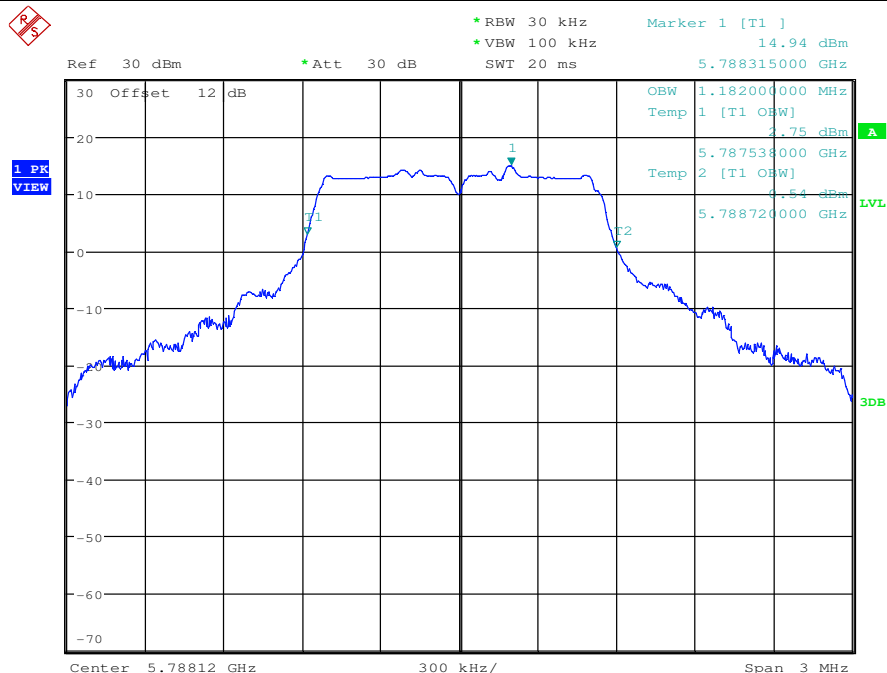
2.Occupied Bandwidth Measurement

Test Mode	Test Channel(MHz)	Ant	OBW[MHz]	Limit[MHz]	Verdict
1.4MHz BW CA	5730.12	Ant1	1.173	---	PASS
1.4MHz BW CA	5788.12	Ant1	1.182	---	PASS
1.4MHz BW CA	5846.12	Ant1	1.191	---	PASS
1.4MHz BW	5728.5	Ant1	1.167	---	PASS
1.4MHz BW	5784.5	Ant1	1.164	---	PASS
1.4MHz BW	5844.5	Ant1	1.161	---	PASS
3MHz BW	5730.5	Ant1	2.180	---	PASS
3MHz BW	5787.5	Ant1	2.185	---	PASS
3MHz BW	5844.5	Ant1	2.195	---	PASS
10MHz BW	5732.5	Ant1	9.040	---	PASS
10MHz BW	5787.5	Ant1	9.040	---	PASS
10MHz BW	5844.5	Ant1	9.040	---	PASS
20MHz BW	5735.5	Ant1	17.960	---	PASS
20MHz BW	5787.5	Ant1	18.080	---	PASS
20MHz BW	5839.5	Ant1	18.040	---	PASS

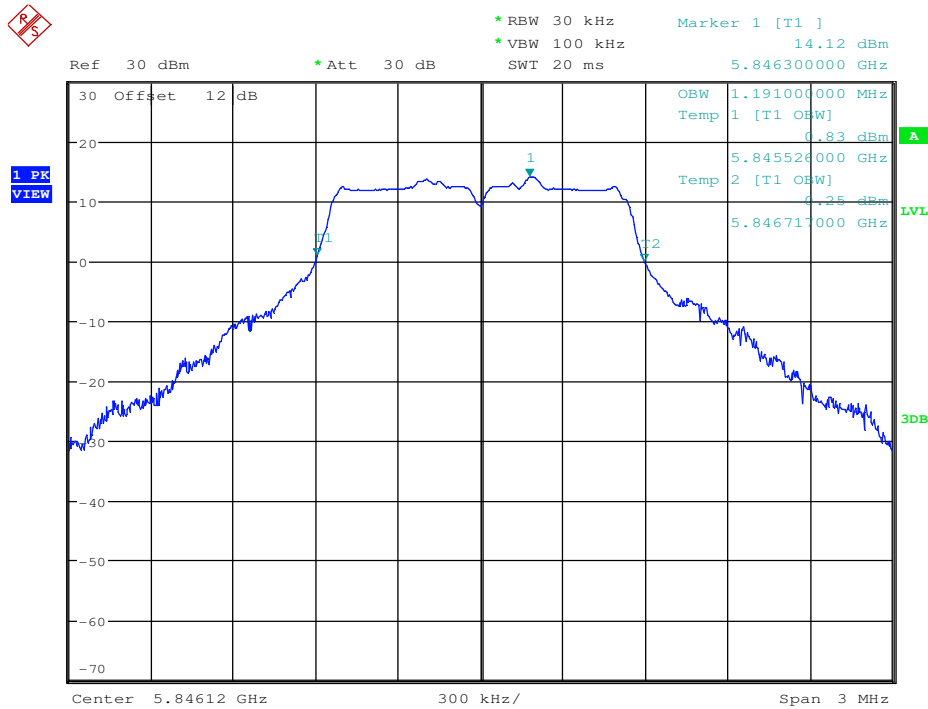
Occupied Bandwidth Measurement_1.4MHz BW_5730.12_Ant1



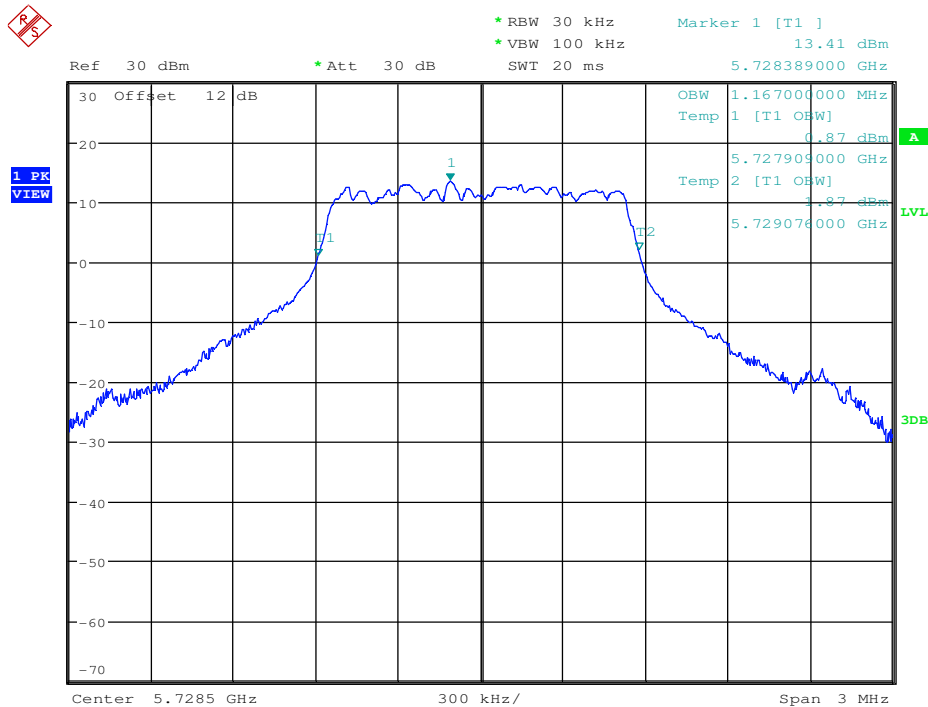
Occupied Bandwidth Measurement_1.4MHz BW_5788.12_Ant1



Occupied Bandwidth Measurement_1.4MHz BW_5846.12_Ant1



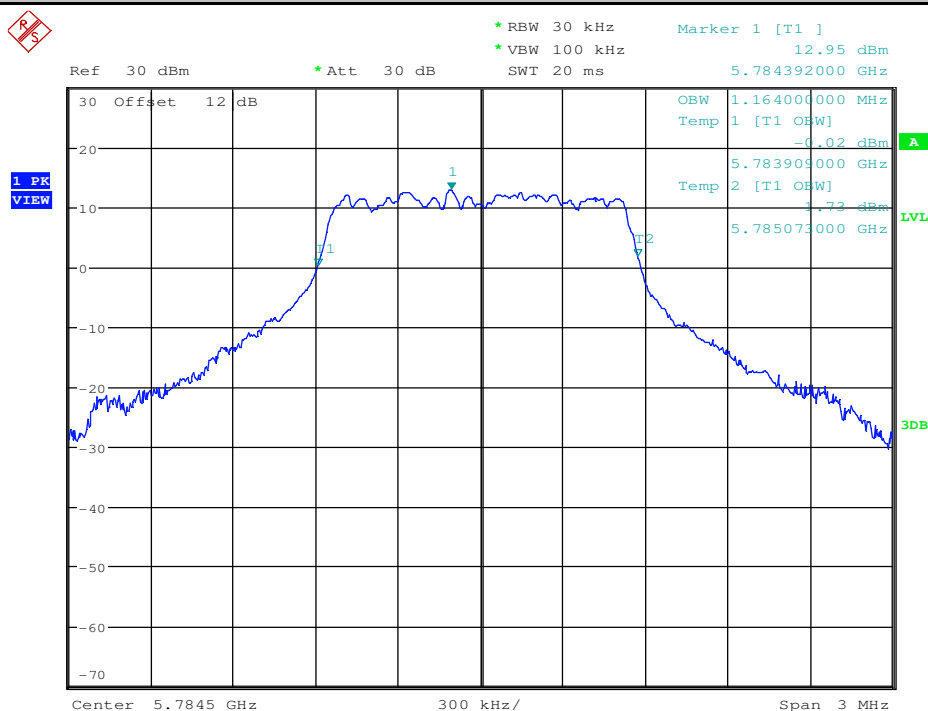
Occupied Bandwidth Measurement_1.4MHz BW_5728.5_Ant1



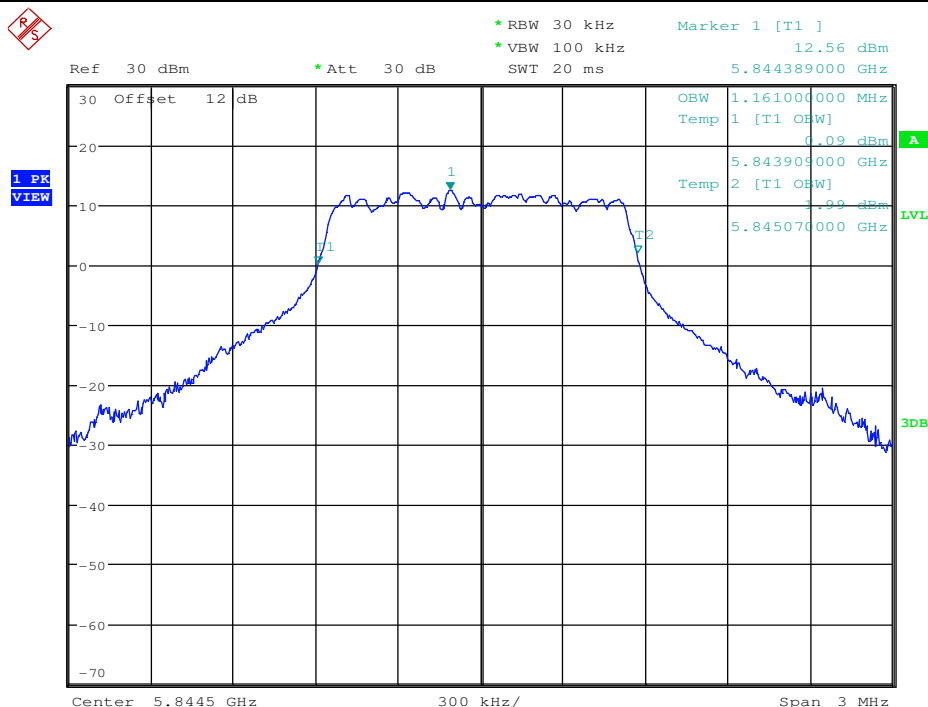
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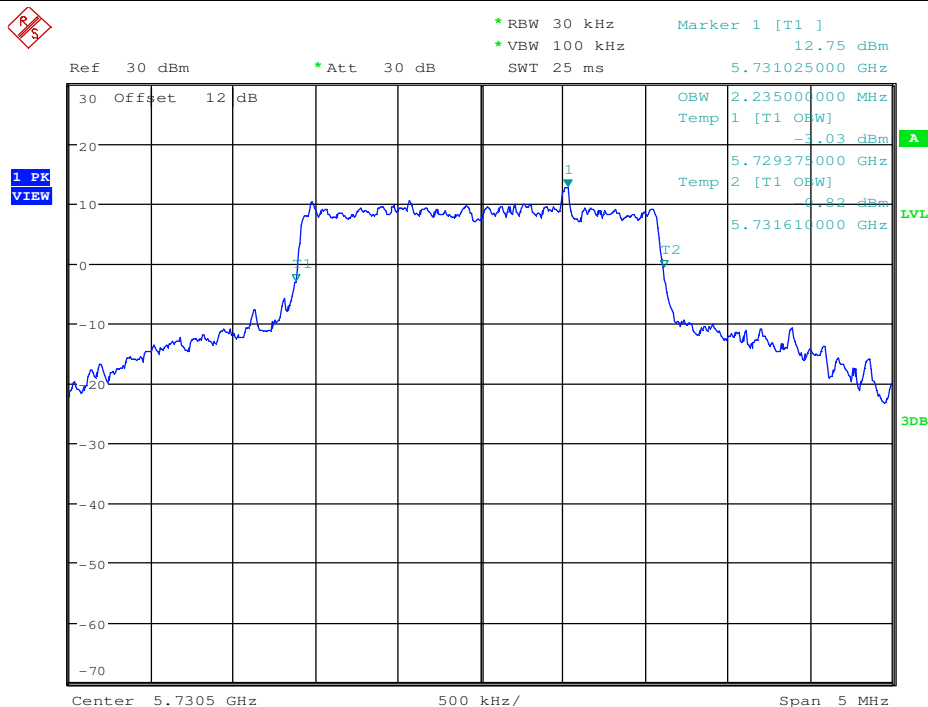
Occupied Bandwidth Measurement_1.4MHz BW_5784.5_Ant1



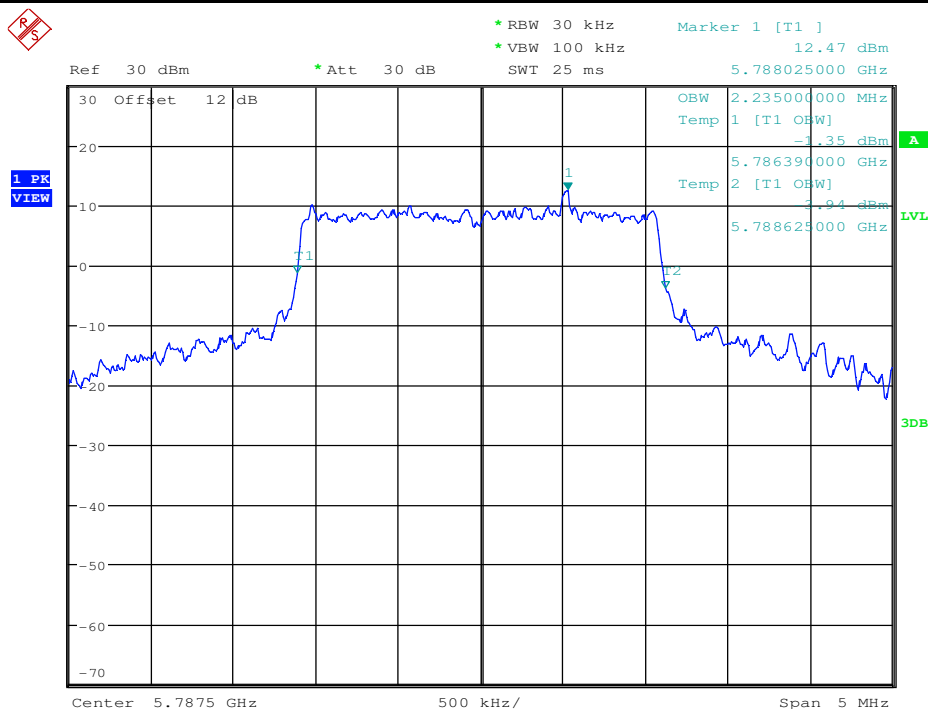
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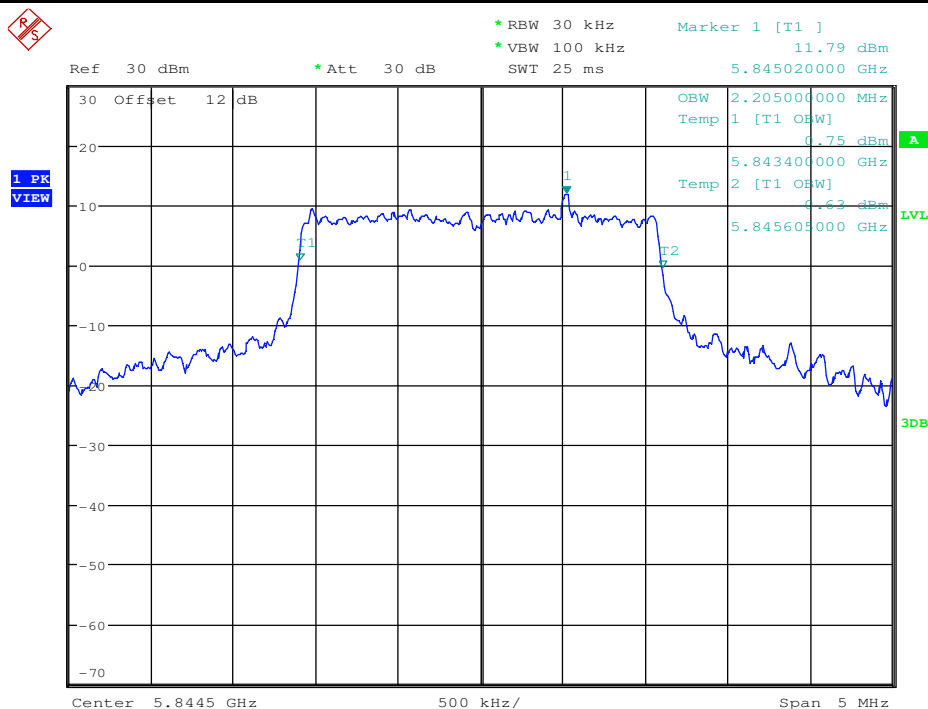
Occupied Bandwidth Measurement_3MHz BW_5730.5_Ant1



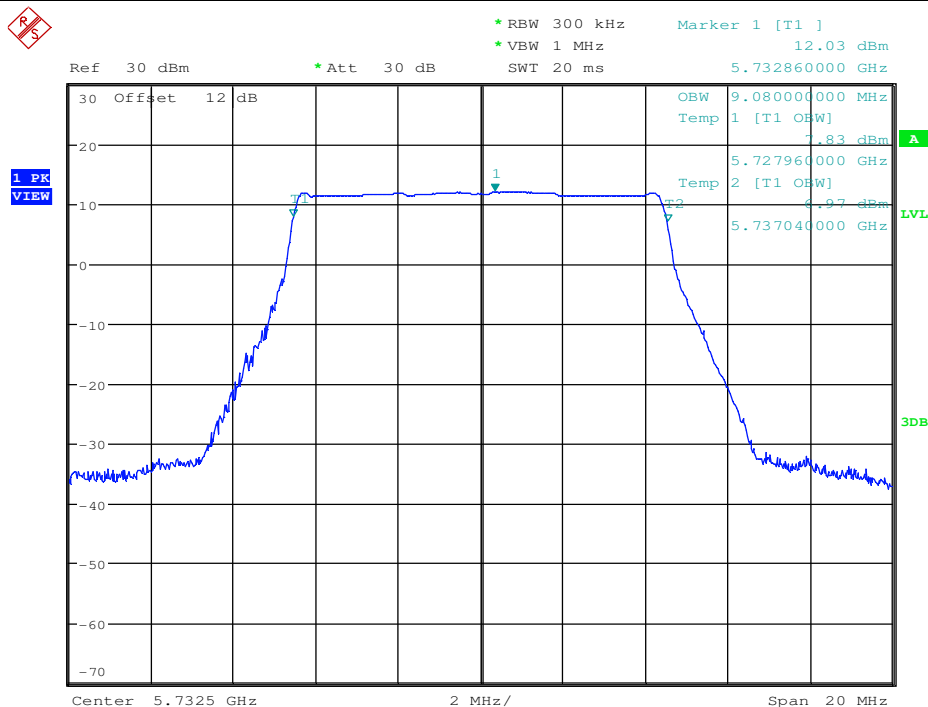
Occupied Bandwidth Measurement_3MHz BW_5787.5_Ant1



Occupied Bandwidth Measurement_3MHz BW_5844.5_Ant1



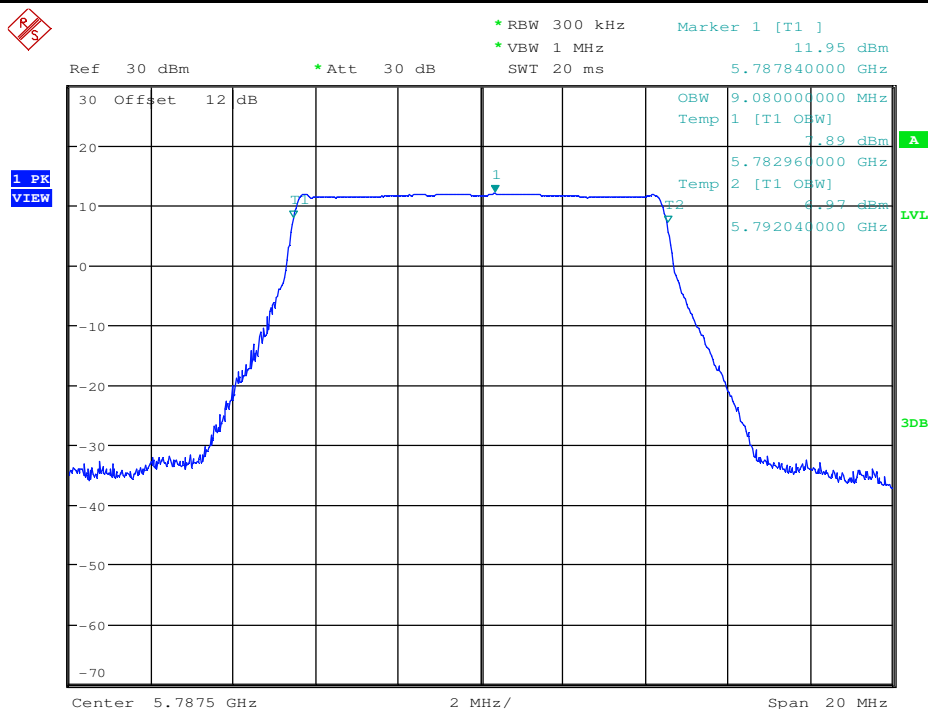
Occupied Bandwidth Measurement_10MHz BW_5732.5_Ant1



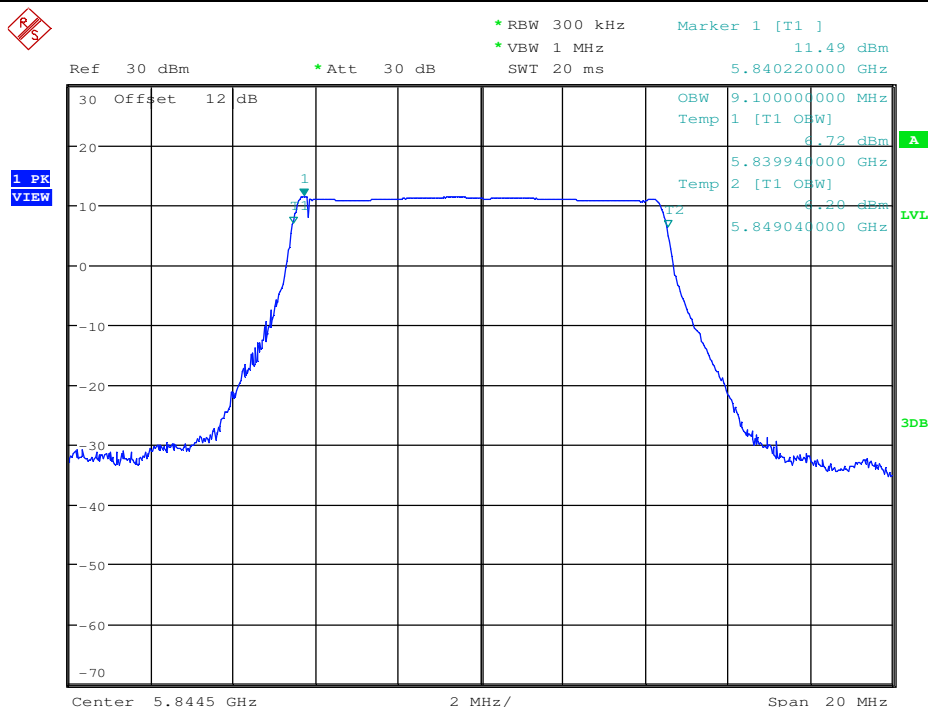
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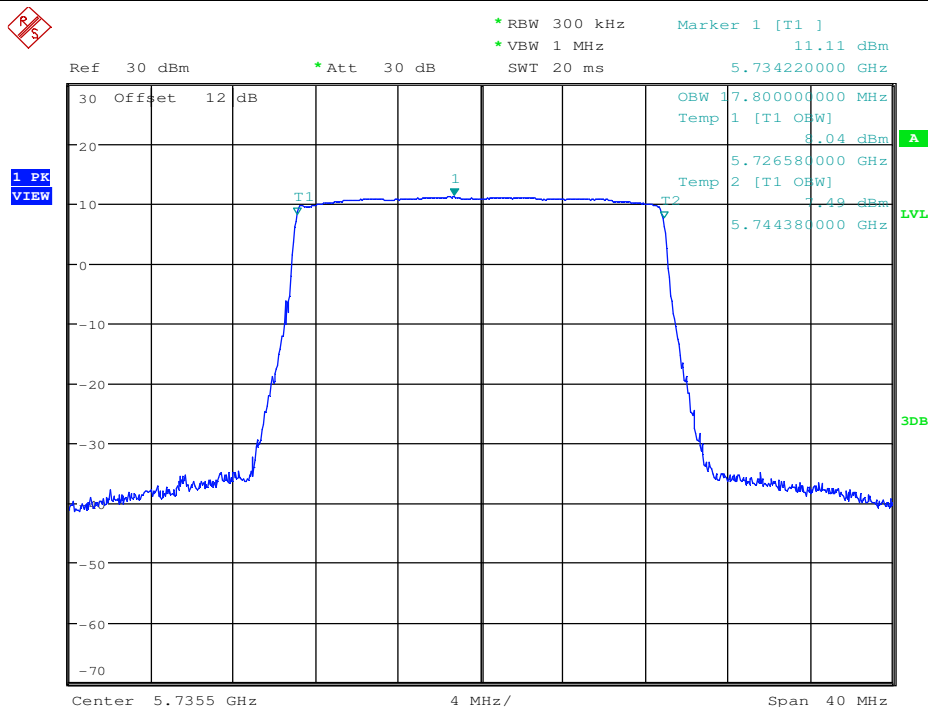
Occupied Bandwidth Measurement_10MHz BW_5787.5_Ant1



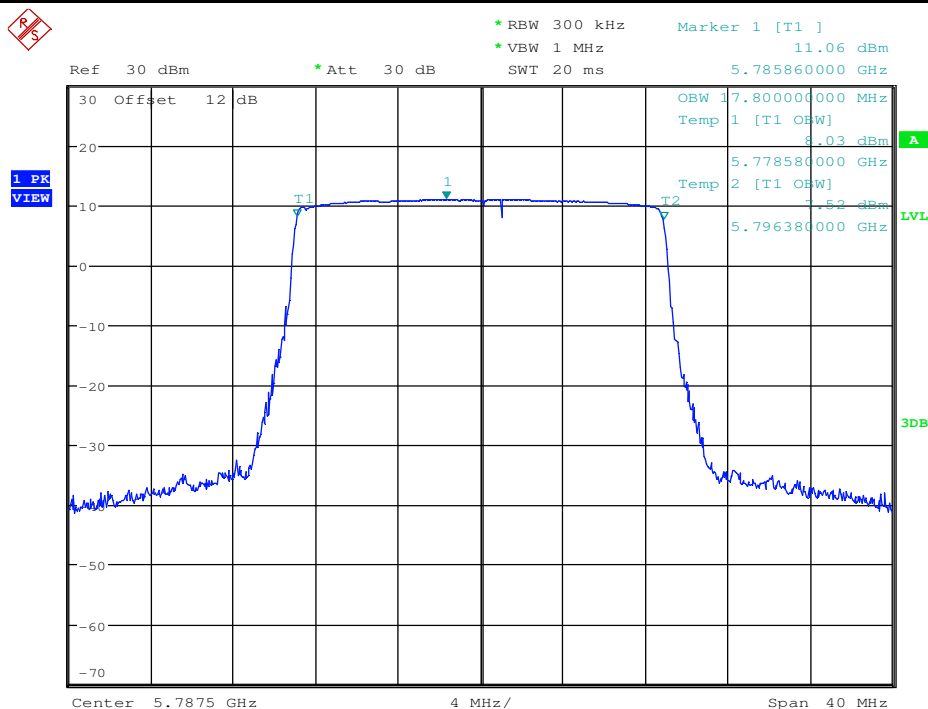
Occupied Bandwidth Measurement_10MHz BW_5844.5_Ant1



Occupied Bandwidth Measurement 20MHz BW 5735.5 Ant1



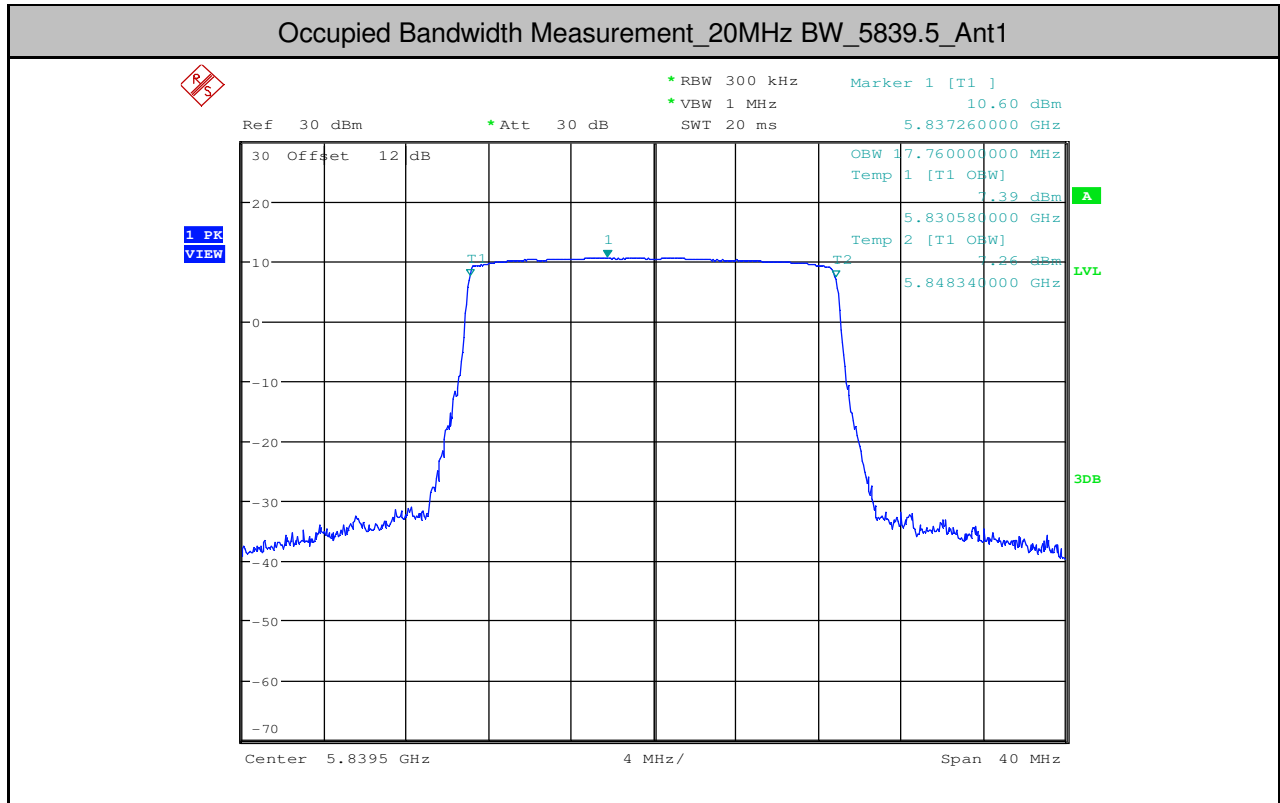
Occupied Bandwidth Measurement 20MHz BW 5787.5 Ant1



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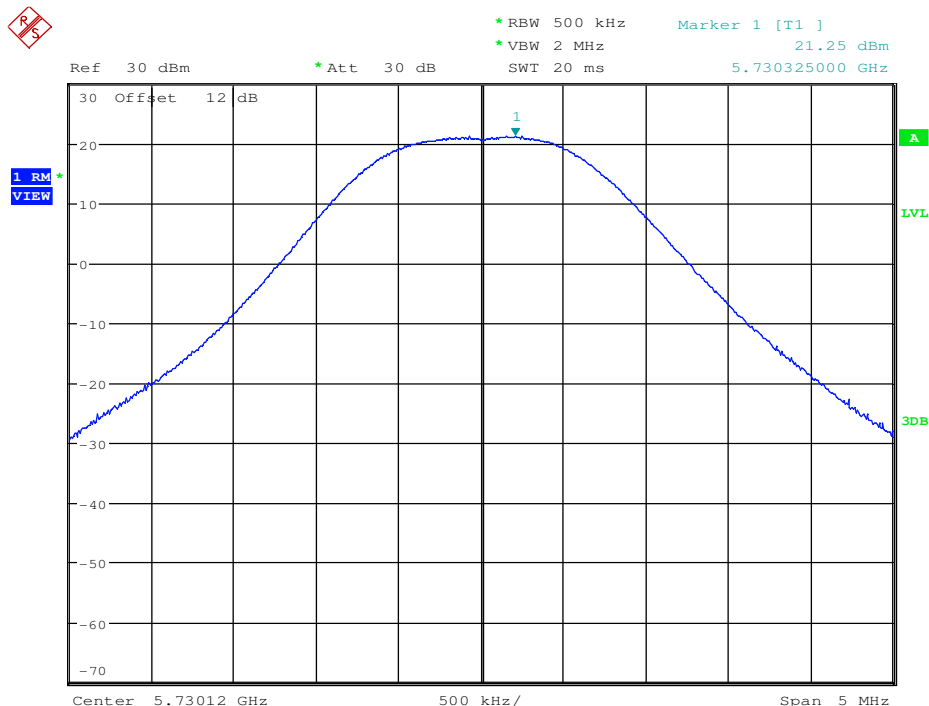
3.Maximum Conduct Output Power(Average)

Test Mode	Test Channel(MHz)	Ant	Power [dBm]	Limit [dBm]	Verdict
1.4MHz BW CA	5730.12	Ant1	22.59	<30.00	PASS
1.4MHz BW CA	5788.12	Ant1	22.10	<30.00	PASS
1.4MHz BW CA	5846.12	Ant1	22.29	<30.00	PASS
1.4MHz BW	5728.5	Ant1	22.85	<30.00	PASS
1.4MHz BW	5784.5	Ant1	22.87	<30.00	PASS
1.4MHz BW	5844.5	Ant1	22.09	<30.00	PASS
3MHz BW	5730.5	Ant1	22.18	<30.00	PASS
3MHz BW	5787.5	Ant1	22.05	<30.00	PASS
3MHz BW	5844.5	Ant1	21.79	<30.00	PASS
10MHz BW	5732.5	Ant1	11.86	<30.00	PASS
10MHz BW	5787.5	Ant1	11.90	<30.00	PASS
10MHz BW	5844.5	Ant1	11.26	<30.00	PASS
20MHz BW	5735.5	Ant1	11.79	<30.00	PASS
20MHz BW	5787.5	Ant1	11.82	<30.00	PASS
20MHz BW	5839.5	Ant1	11.38	<30.00	PASS

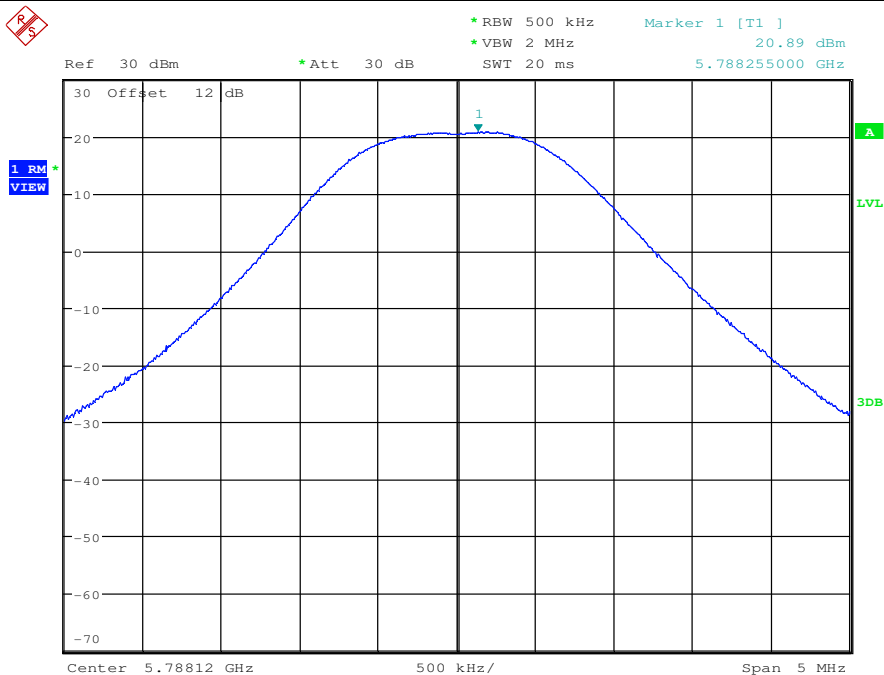
4. Maximum Power Spectral Density

Test Mode	Test Channel(MHz)	Ant	Level [dBm/500 kHz]	10log(1/x) Factor[dB]	10log(500kHz/RBW) Factor [dB]	PSD [dBm/500 kHz]	Limit [dBm/500 kHz]	Verdict
1.4MHz BW CA	5730.12	Ant1	21.25	0	0	21.25	<30.00	PASS
1.4MHz BW CA	5788.12	Ant1	20.89	0	0	20.89	<30.00	PASS
1.4MHz BW CA	5846.12	Ant1	20.01	0	0	20.01	<30.00	PASS
1.4MHz BW	5728.5	Ant1	21.35	0	0	21.35	<30.00	PASS
1.4MHz BW	5784.5	Ant1	20.97	0	0	20.97	<30.00	PASS
1.4MHz BW	5844.5	Ant1	20.42	0	0	20.42	<30.00	PASS
3MHz BW	5730.5	Ant1	18.74	0	0	18.74	<30.00	PASS
3MHz BW	5787.5	Ant1	18.51	0	0	18.51	<30.00	PASS
3MHz BW	5844.5	Ant1	20.05	0	0	20.05	<30.00	PASS
10MHz BW	5732.5	Ant1	6.26	0	0	6.26	<30.00	PASS
10MHz BW	5787.5	Ant1	6.46	0	0	6.46	<30.00	PASS
10MHz BW	5844.5	Ant1	5.47	0	0	5.47	<30.00	PASS
20MHz BW	5735.5	Ant1	3.77	0	0	3.77	<30.00	PASS
20MHz BW	5787.5	Ant1	3.31	0	0	3.31	<30.00	PASS
20MHz BW	5839.5	Ant1	2.93	0	0	2.93	<30.00	PASS

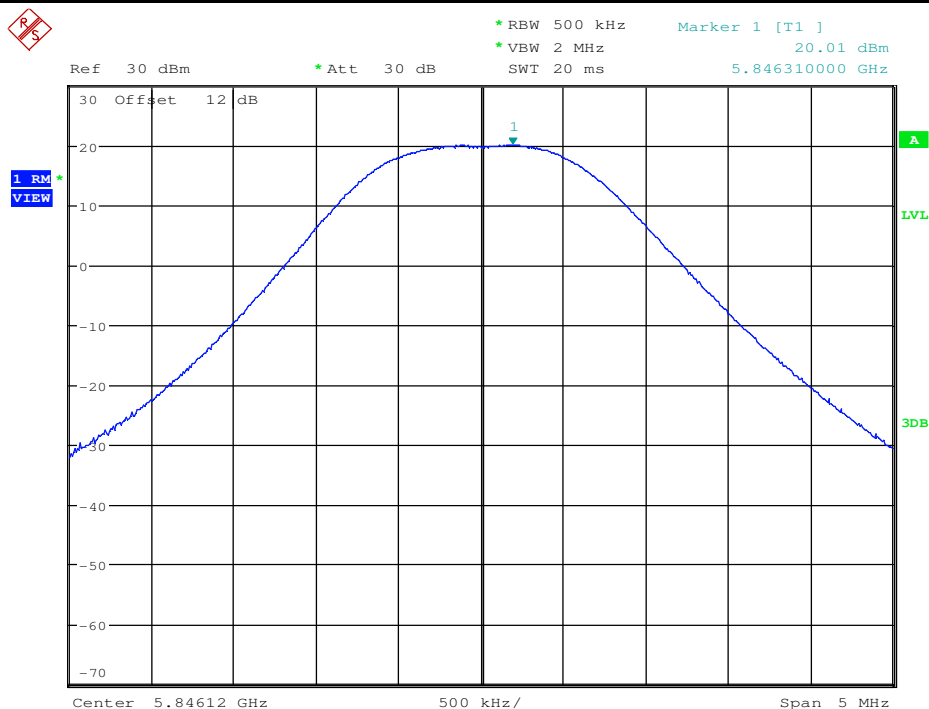
Maximum Power Spectral Density_TNVN_1.4MHz BW_5730.12_Ant1



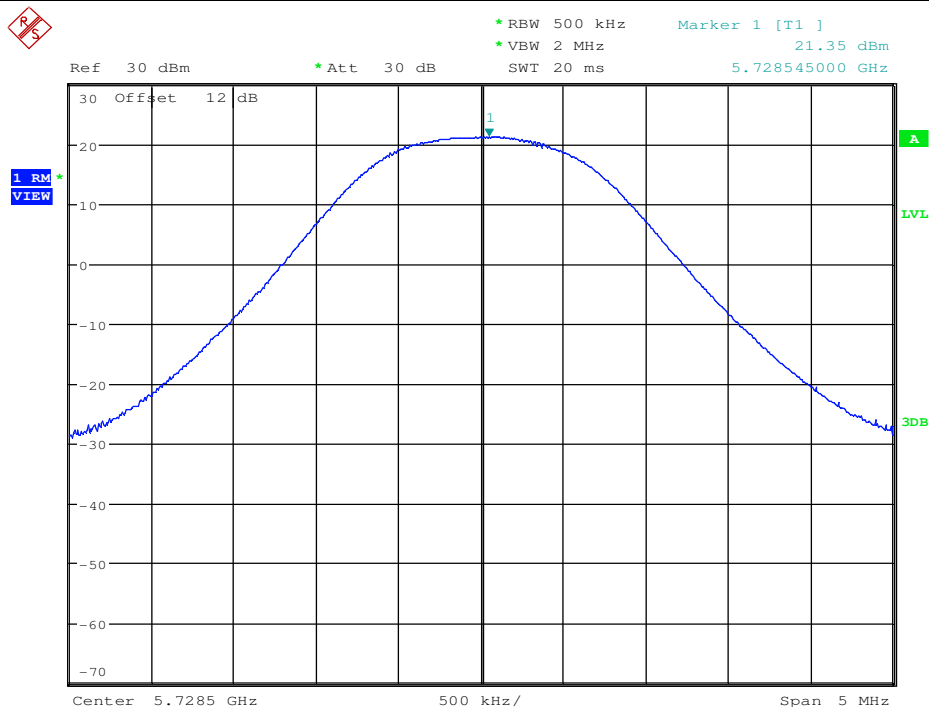
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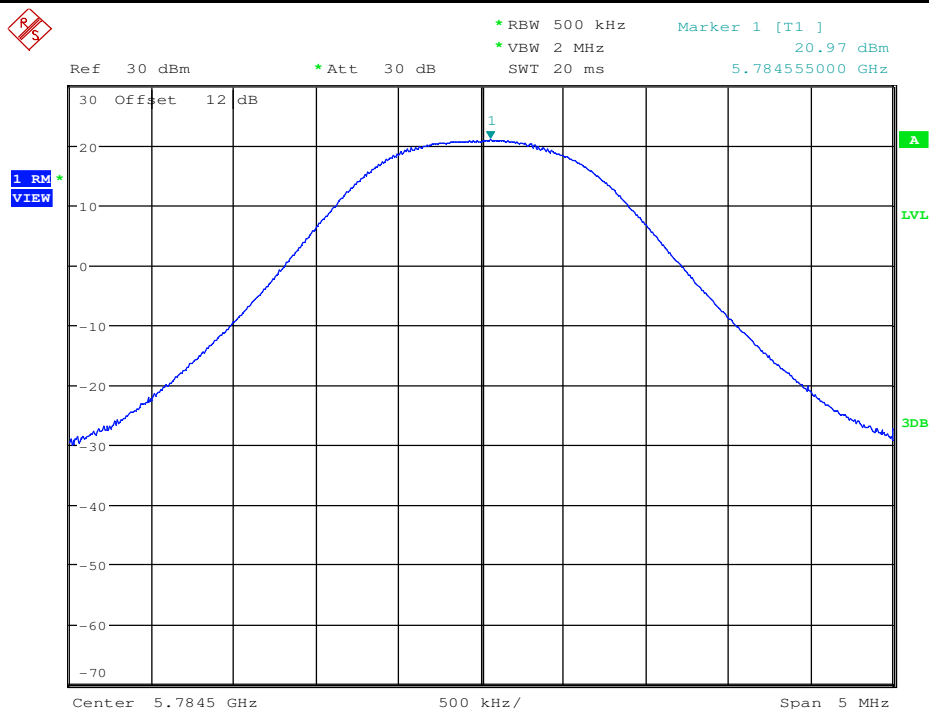
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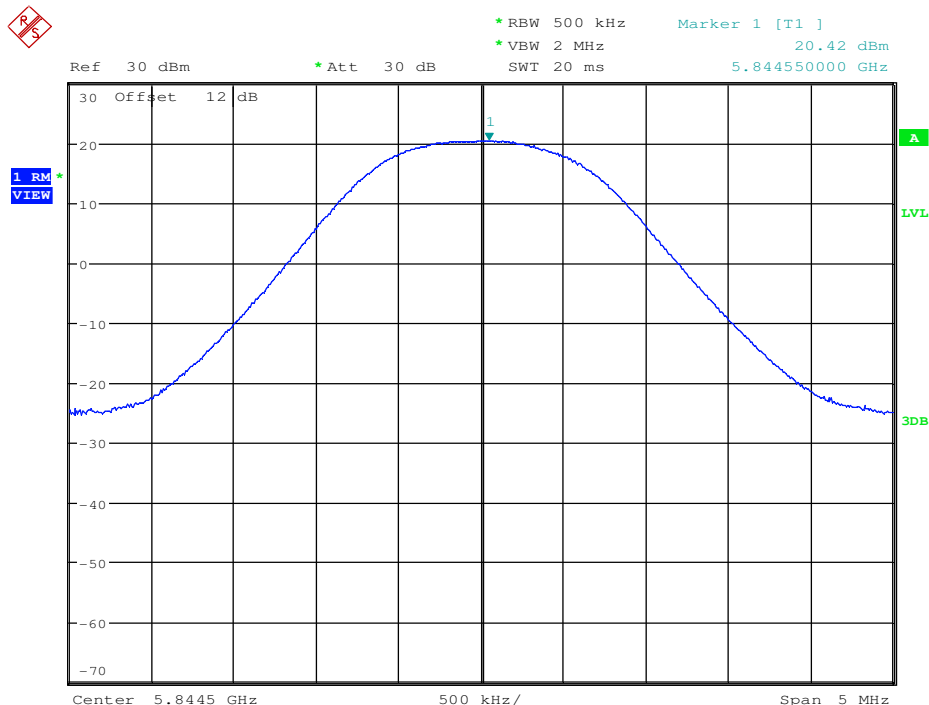
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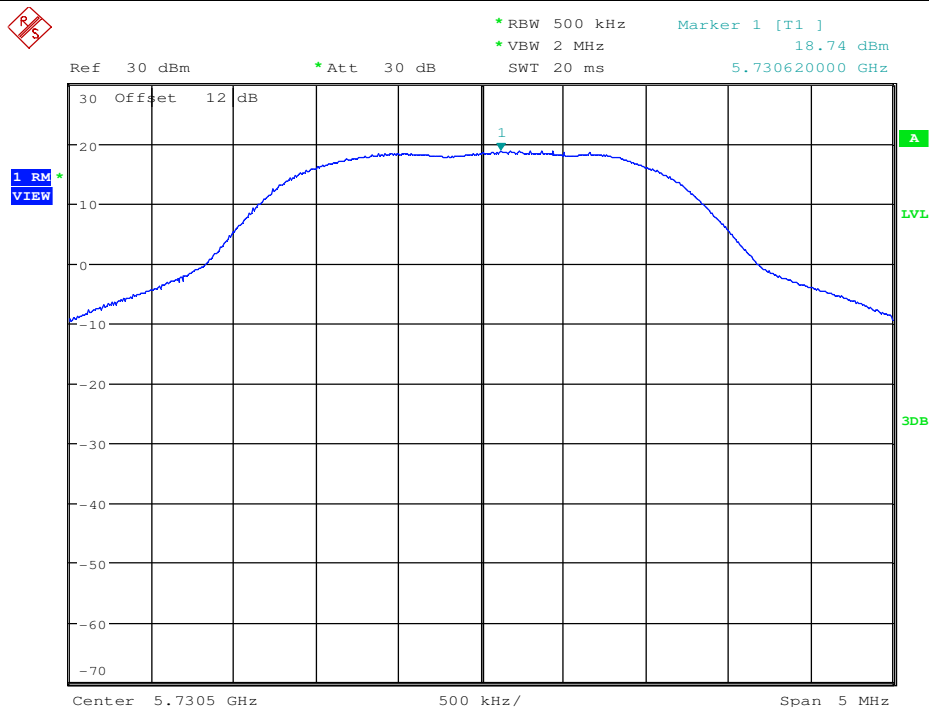
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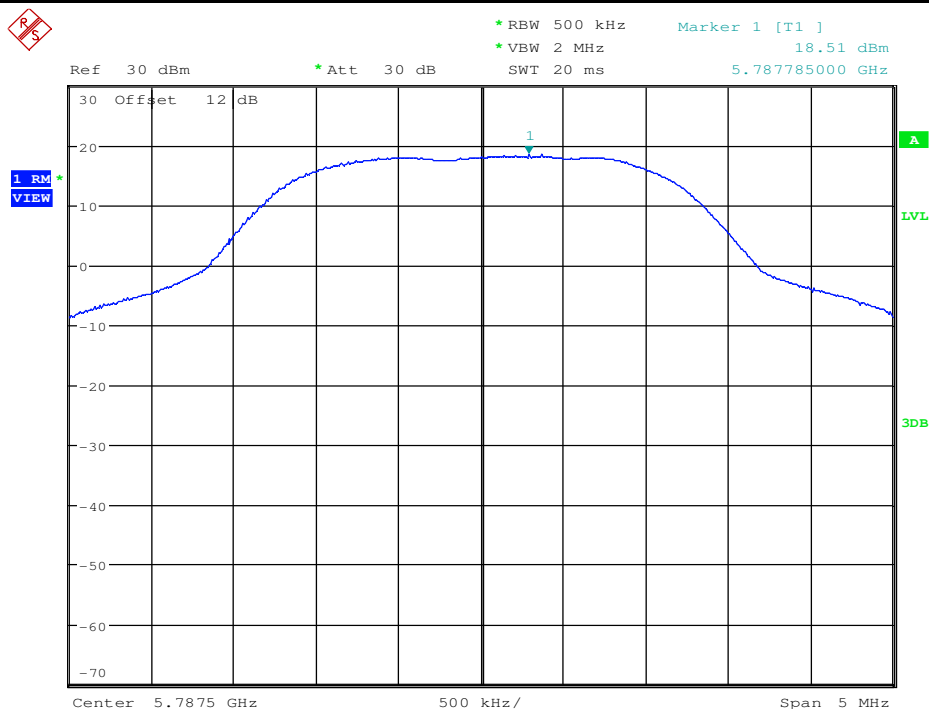
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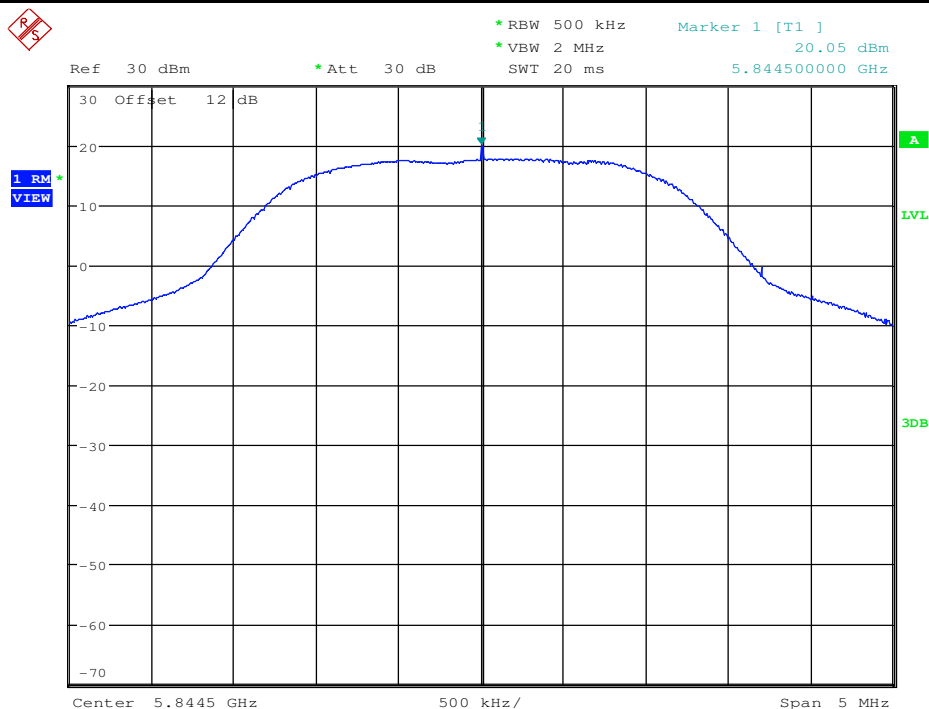
Maximum Power Spectral Density_TNVN_3MHz BW_5730.5_Ant1



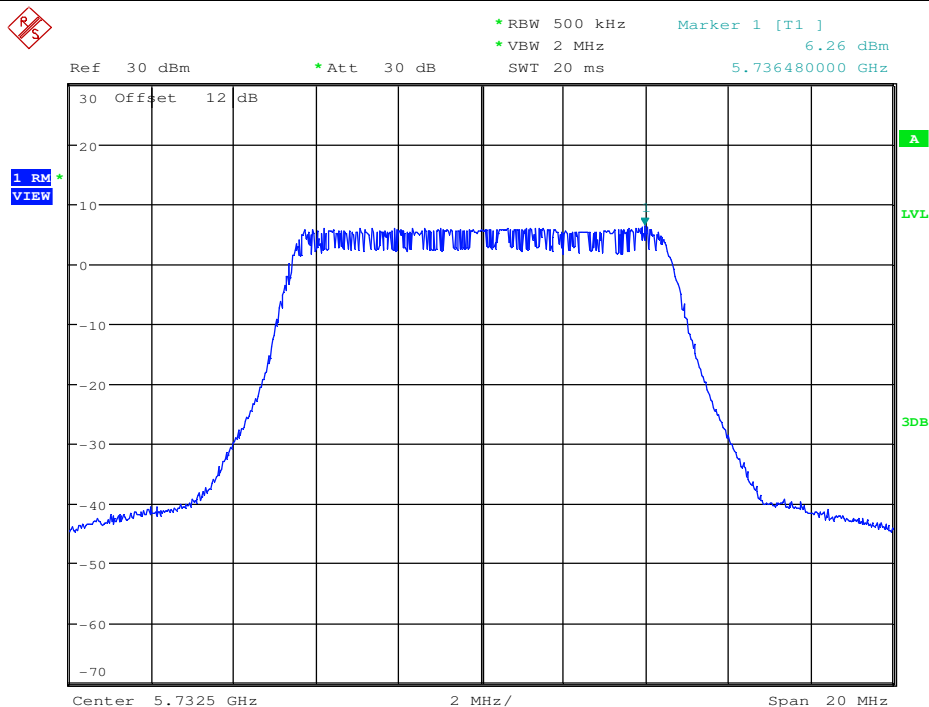
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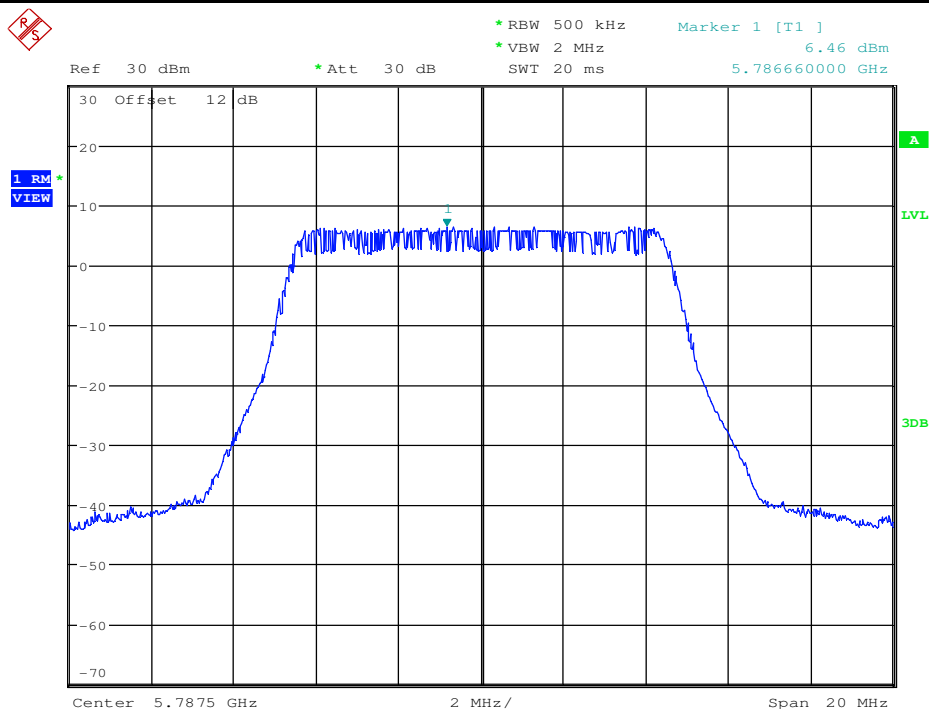
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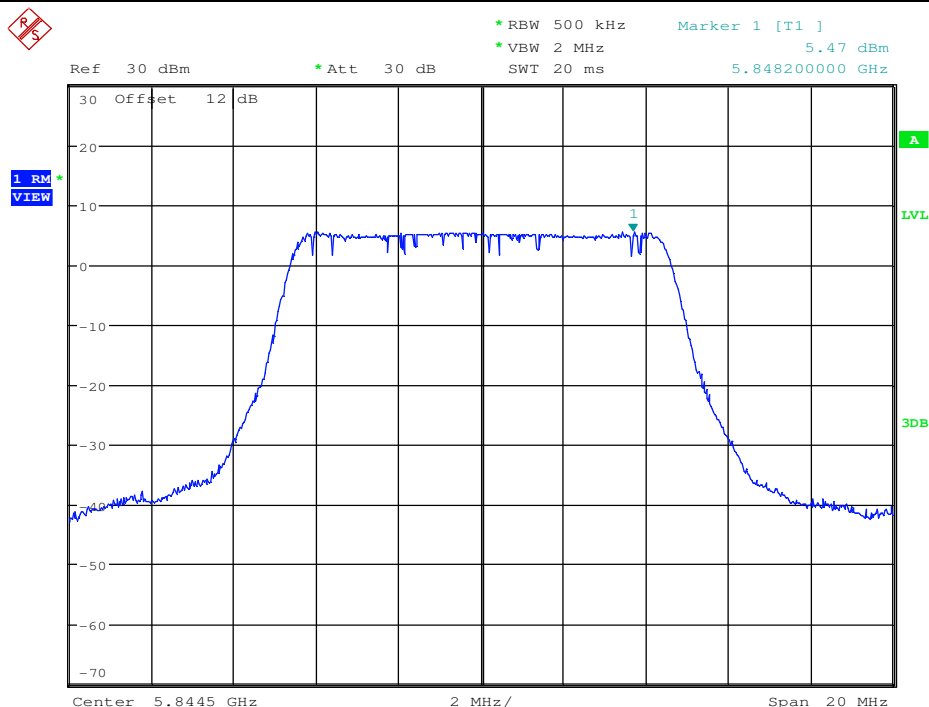
Maximum Power Spectral Density_TNVN_10MHz BW_5732.5_Ant1



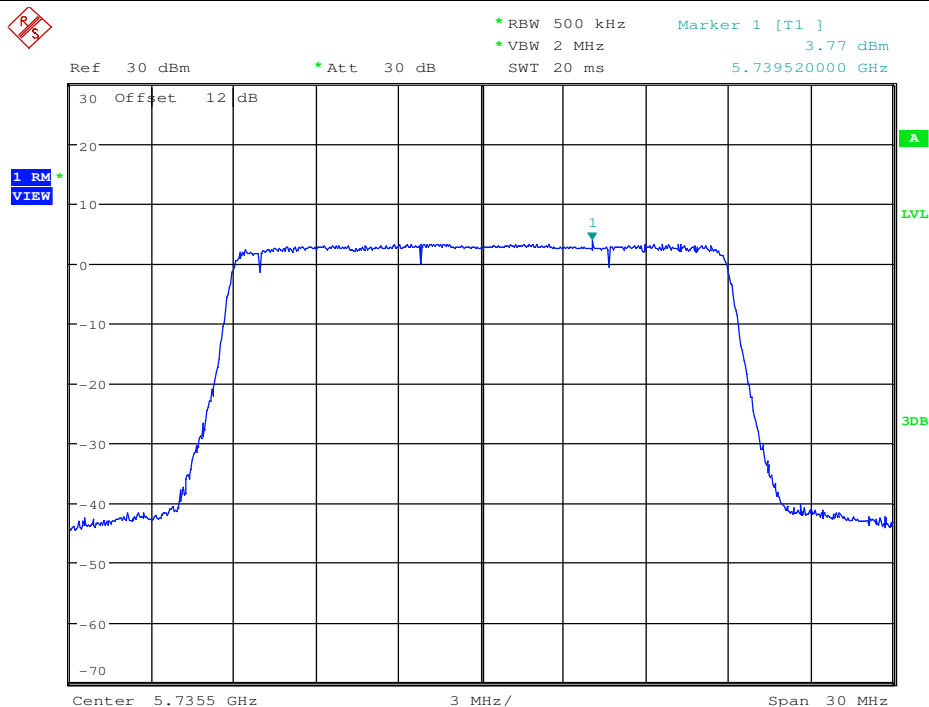
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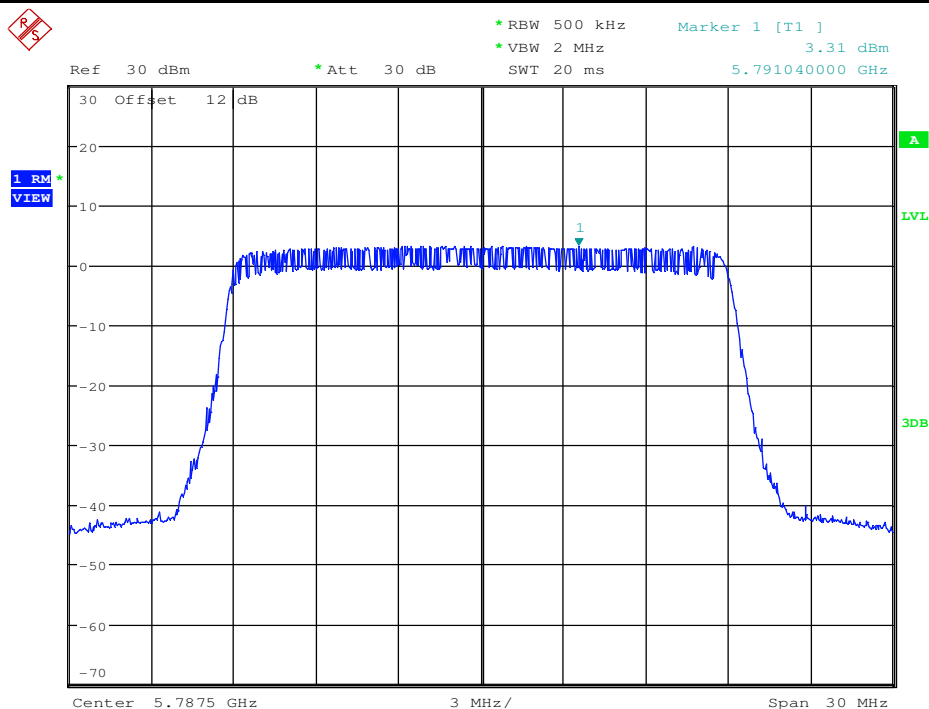
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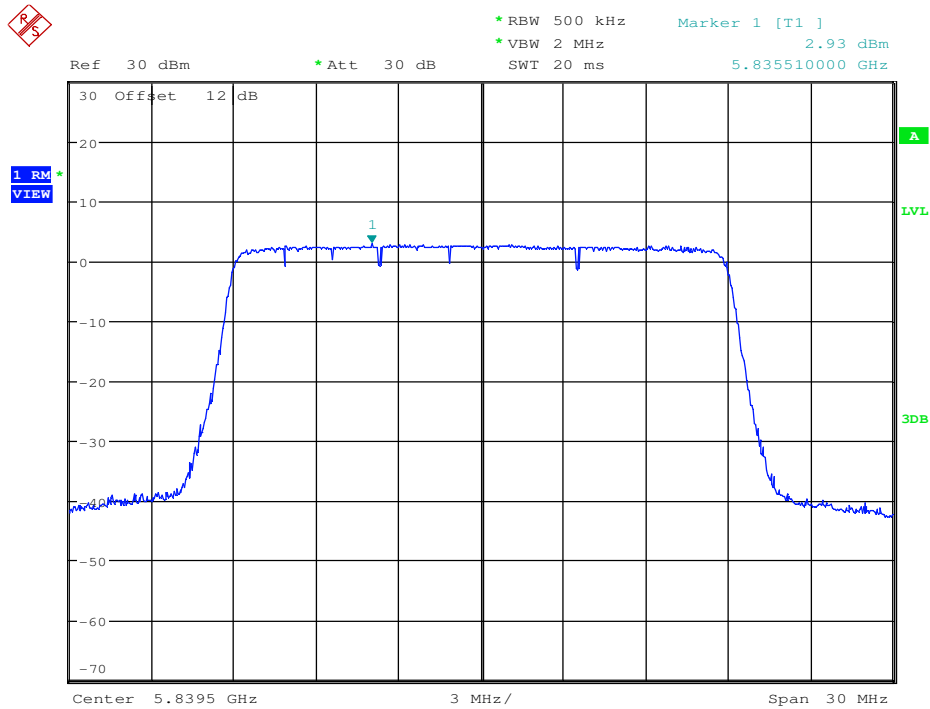
Maximum Power Spectral Density_TNVN_20MHz BW_5735.5_Ant1



Maximum Power Spectral Density_TNVN_20MHz BW_5787.5_Ant1



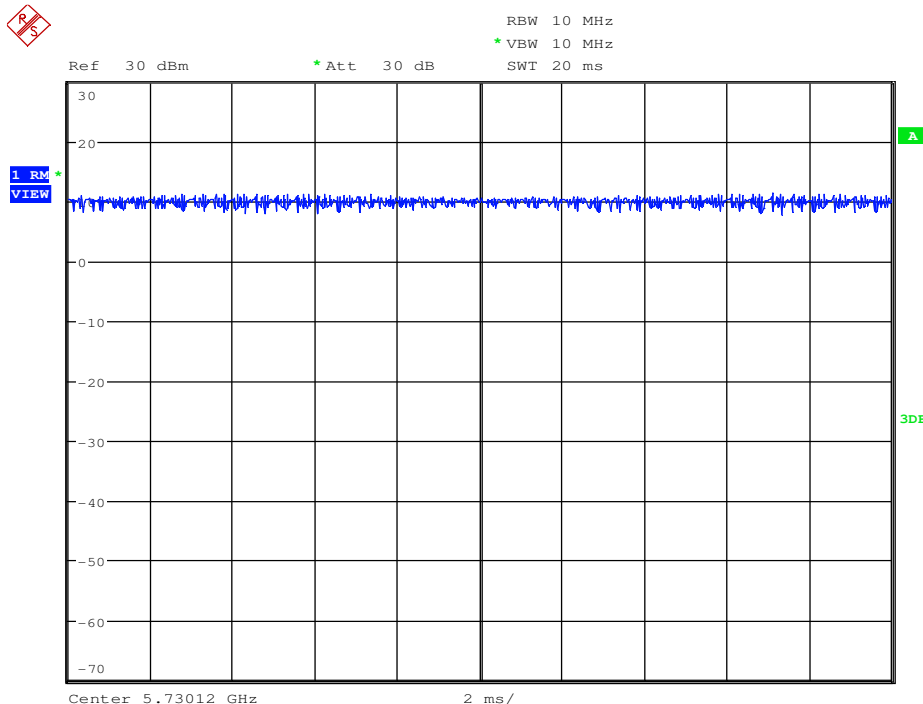
Maximum Power Spectral Density_TNVN_20MHz BW_5839.5_Ant1



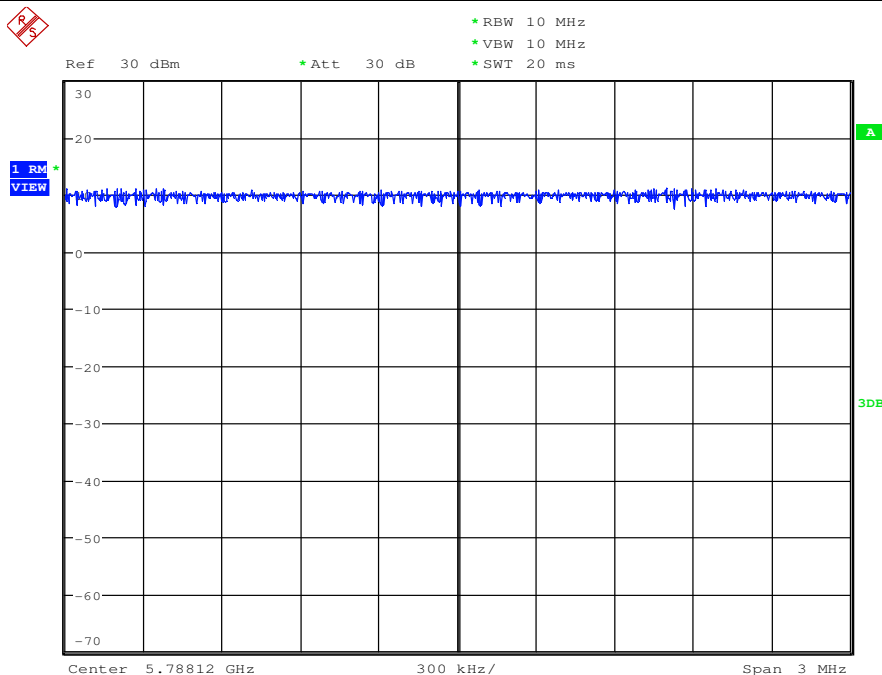
5. Duty Cycle (x)

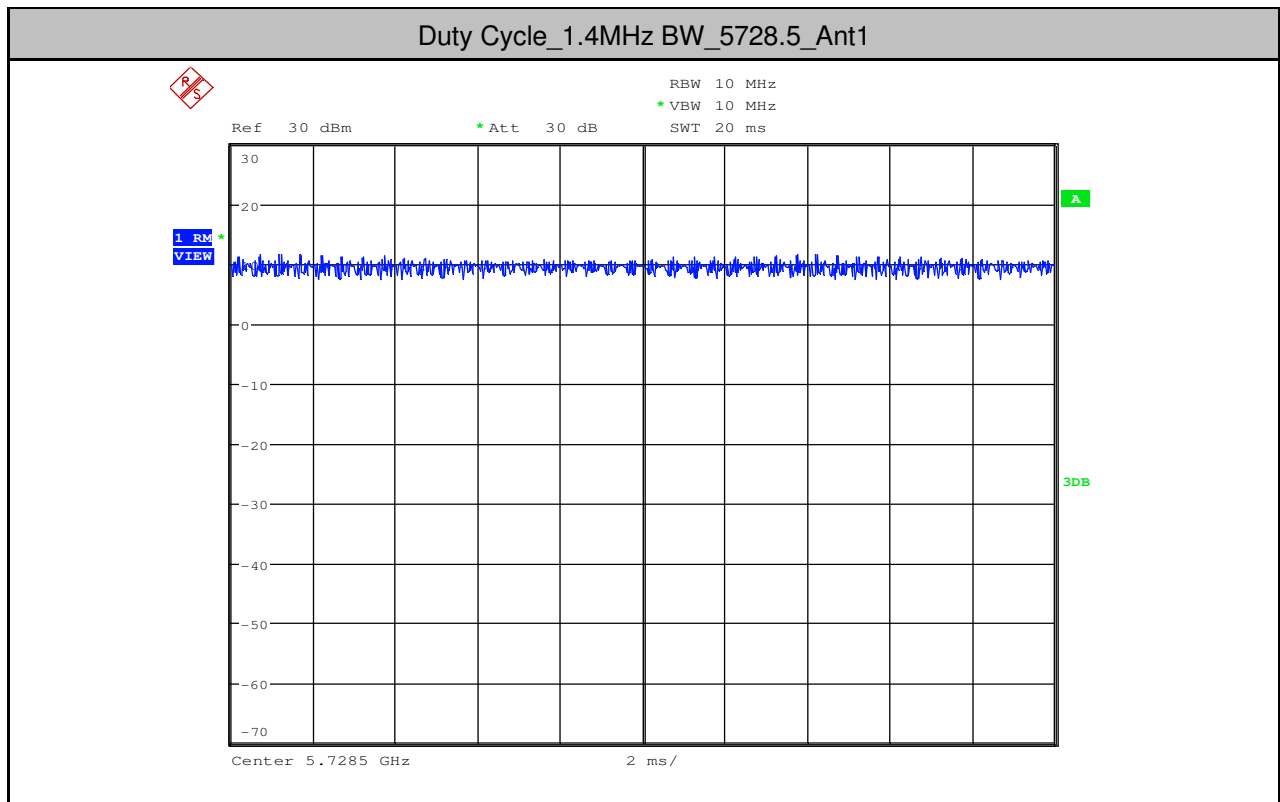
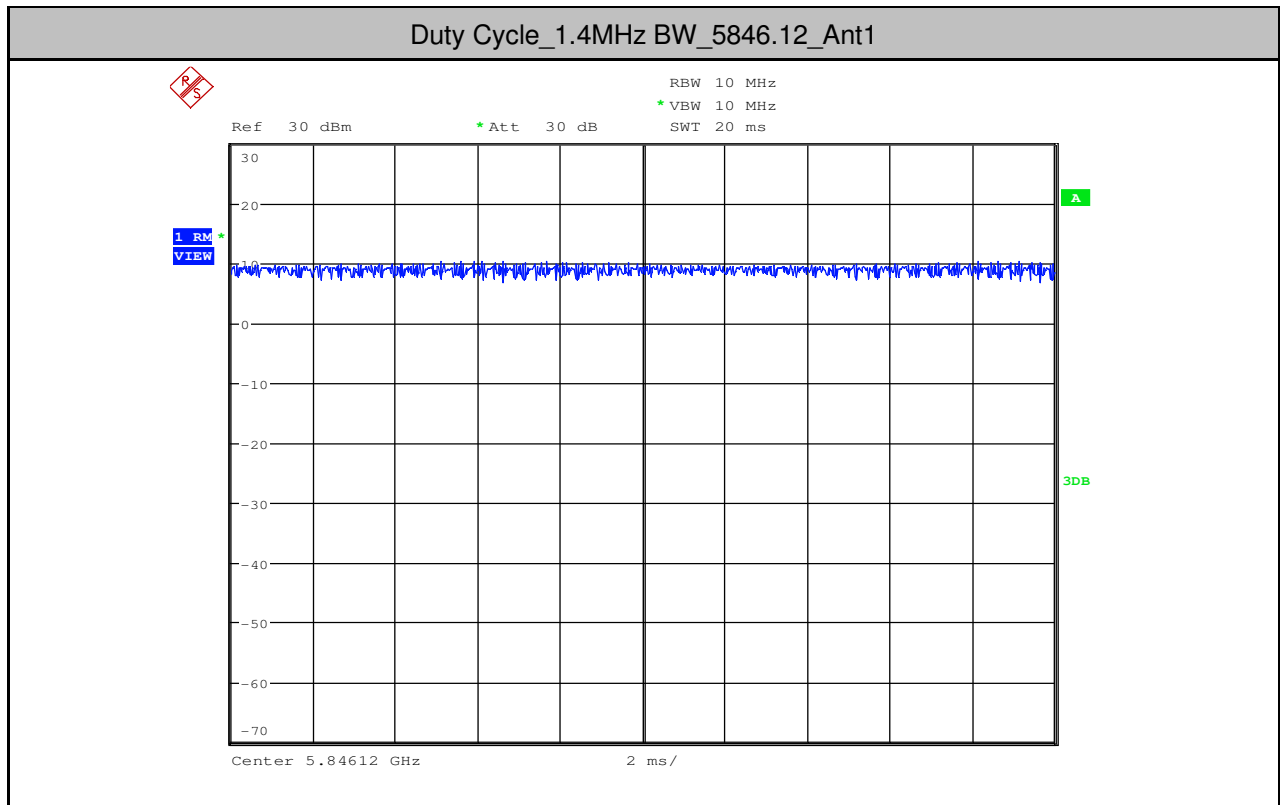
Test Mode	Test Channel(MHz)	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
1.4MHz BW CA	5730.12	Ant1	100	0
1.4MHz BW CA	5788.12	Ant1	100	0
1.4MHz BW CA	5846.12	Ant1	100	0
1.4MHz BW	5728.5	Ant1	100	0
1.4MHz BW	5784.5	Ant1	100	0
1.4MHz BW	5844.5	Ant1	100	0
3MHz BW	5730.5	Ant1	100	0
3MHz BW	5787.5	Ant1	100	0
3MHz BW	5844.5	Ant1	100	0
10MHz BW	5732.5	Ant1	100	0
10MHz BW	5787.5	Ant1	100	0
10MHz BW	5844.5	Ant1	100	0
20MHz BW	5735.5	Ant1	100	0
20MHz BW	5787.5	Ant1	100	0
20MHz BW	5839.5	Ant1	100	0

Duty Cycle_1.4MHz BW_5730.12_Ant1



Duty Cycle_1.4MHz BW_5788.12_Ant1

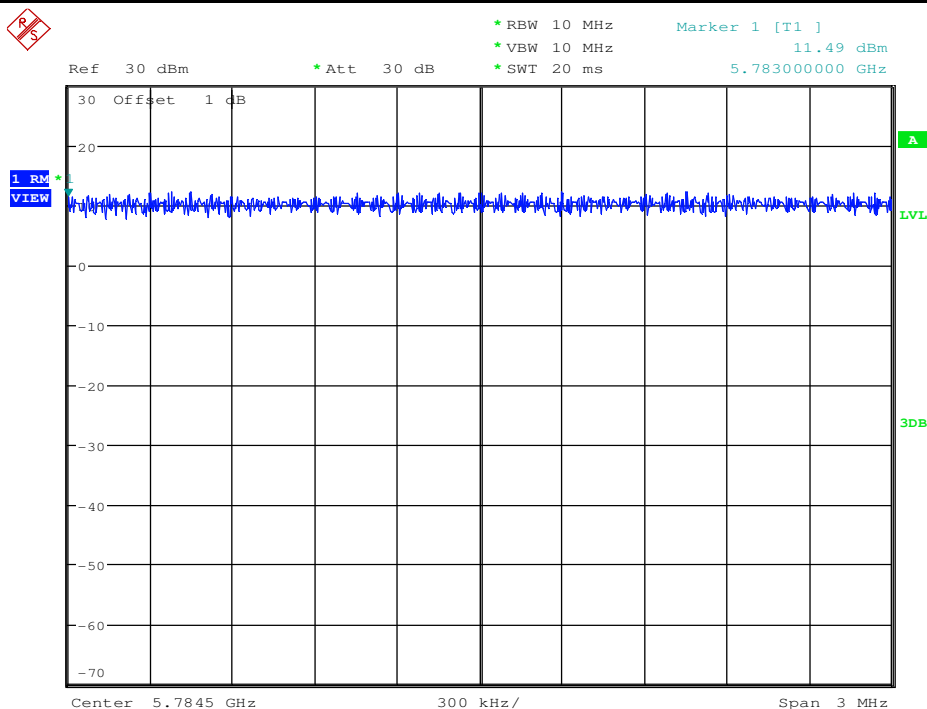




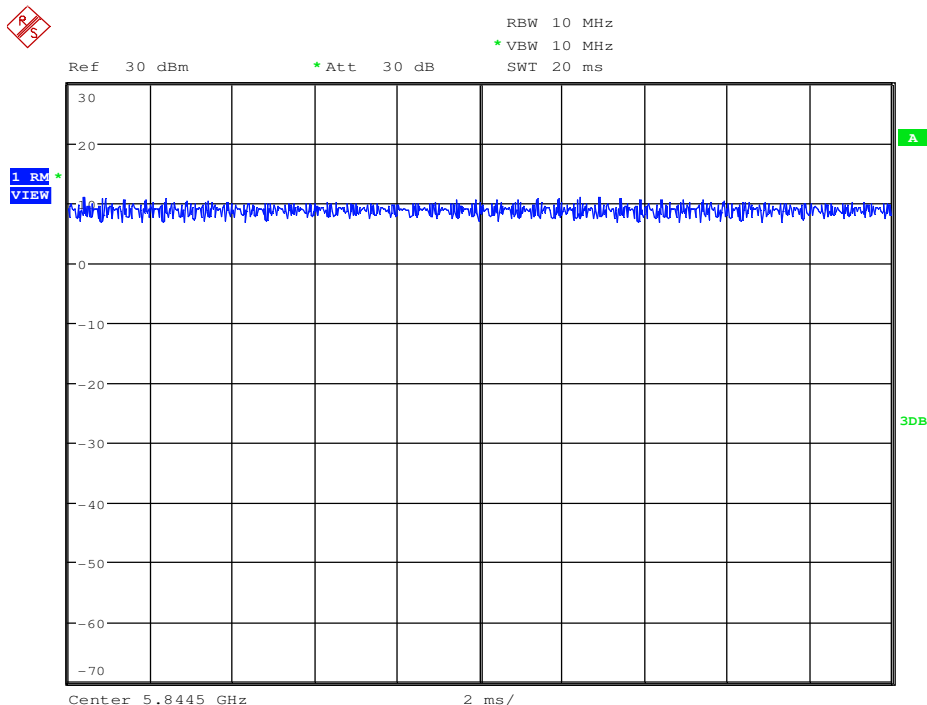
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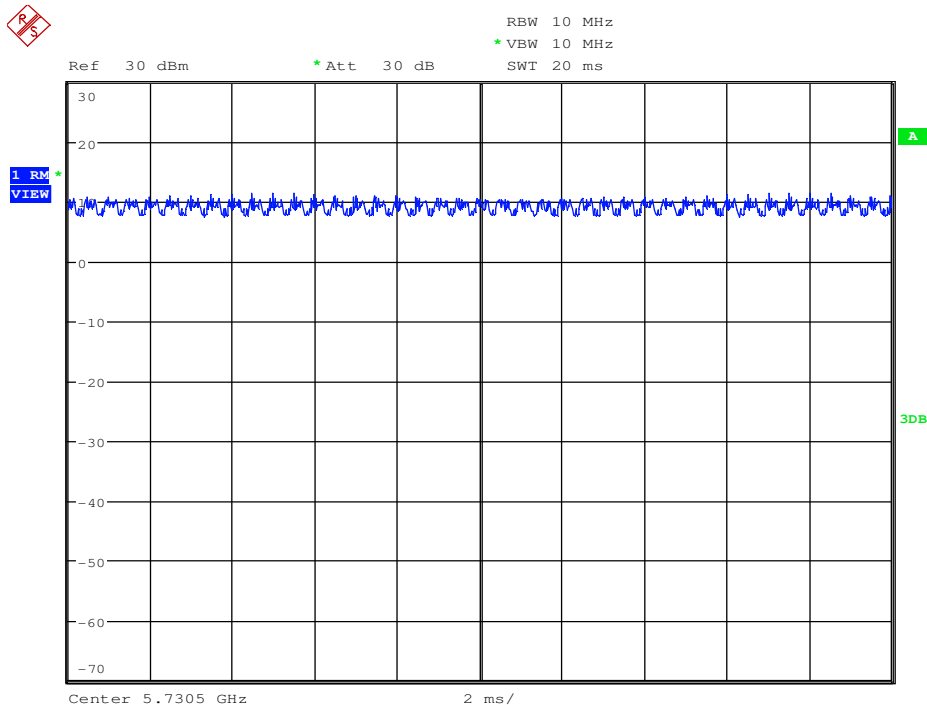
Duty Cycle_1.4MHz BW_5784.5_Ant1



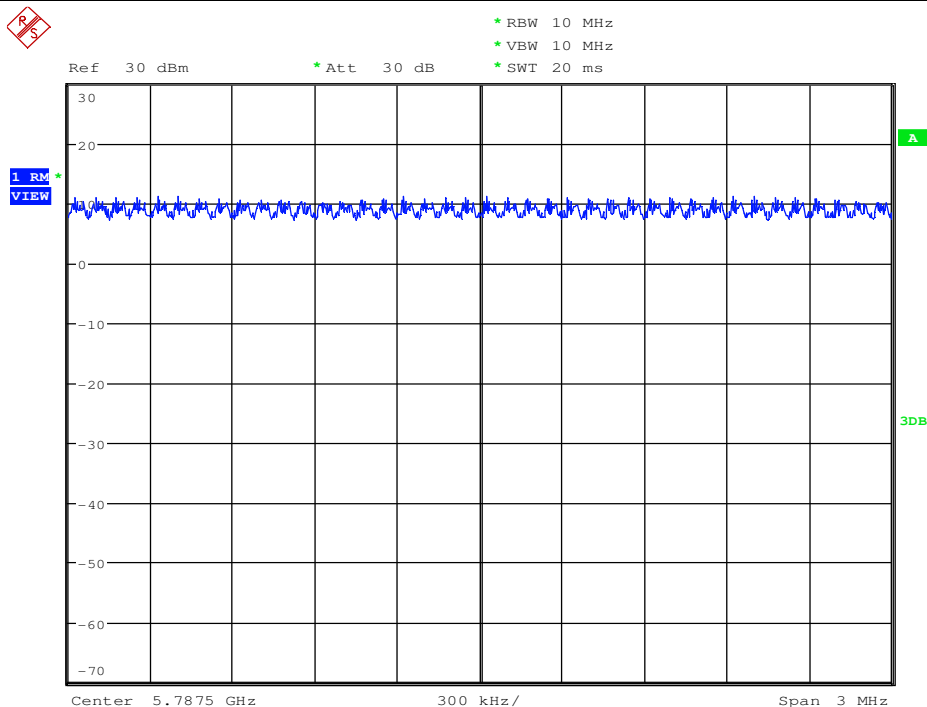
Duty Cycle_1.4MHz BW_5844.5_Ant1



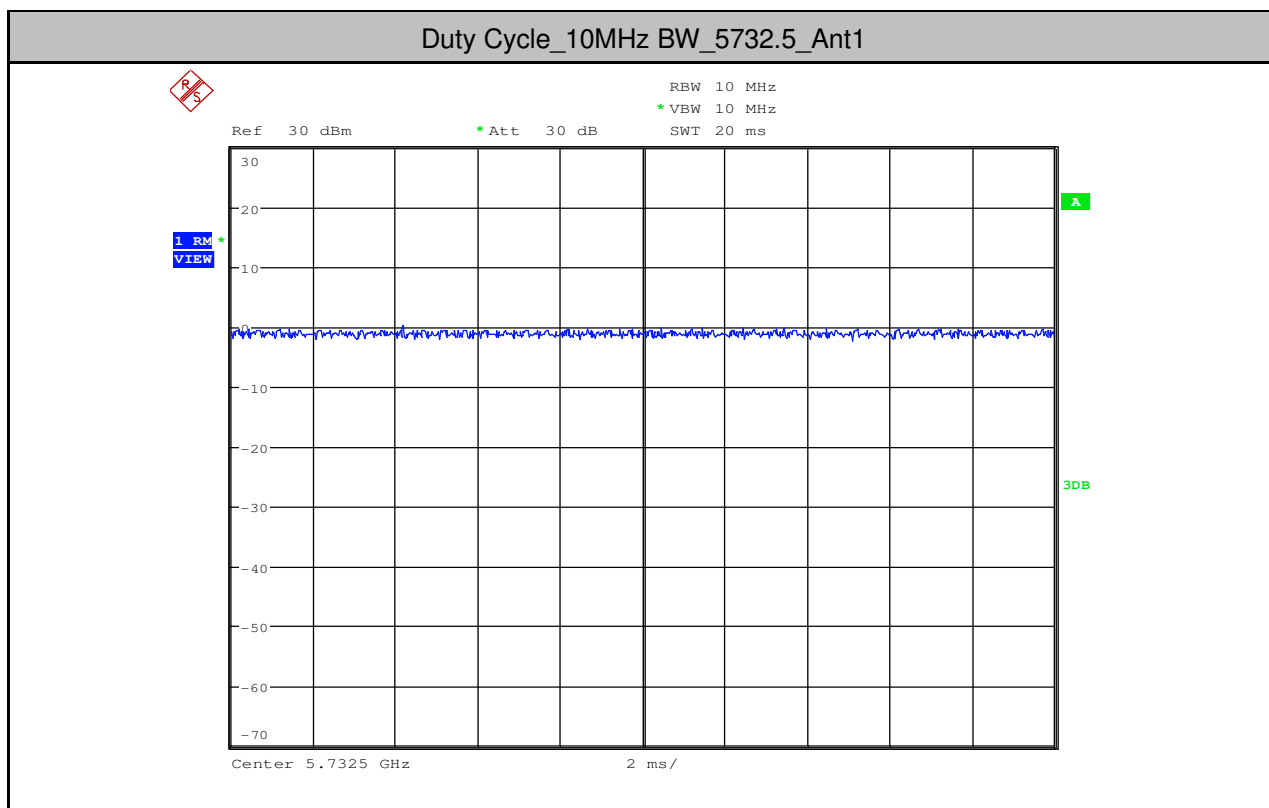
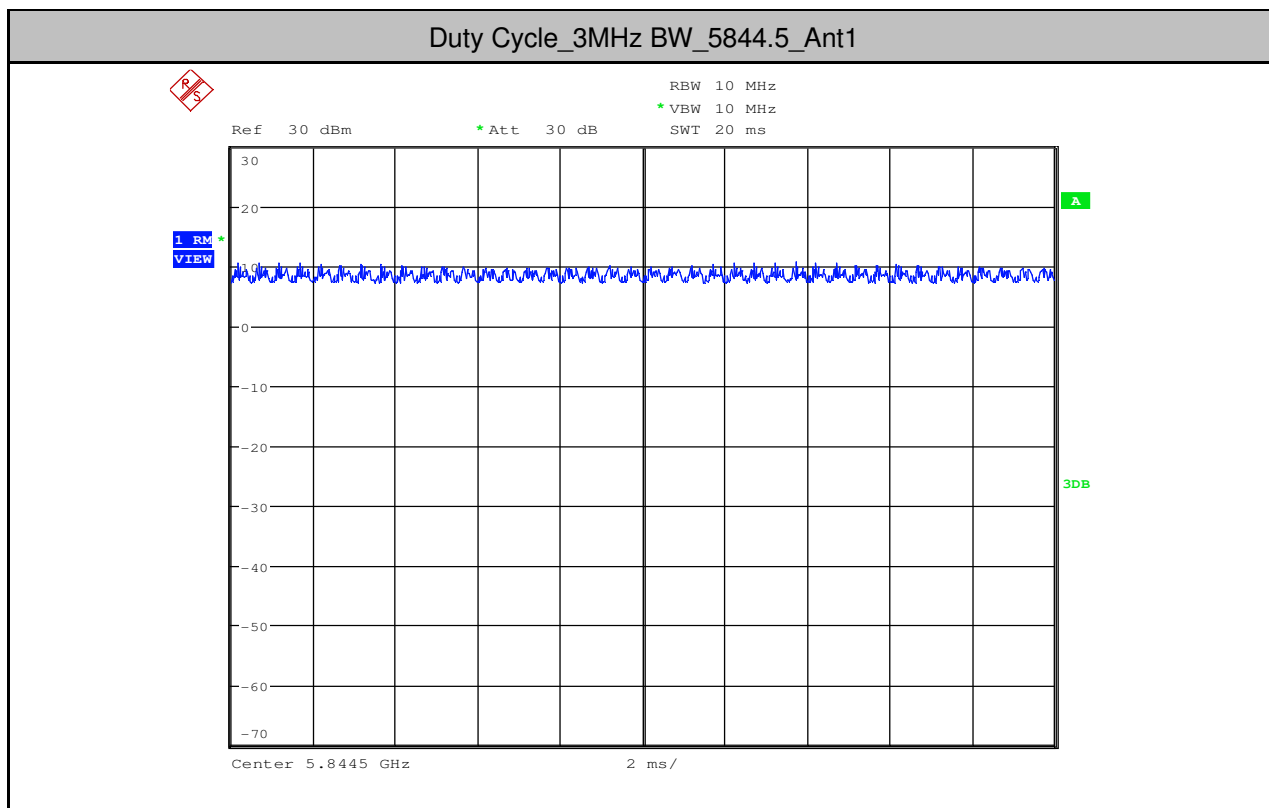
Duty Cycle_3MHz BW_5730.5_Ant1

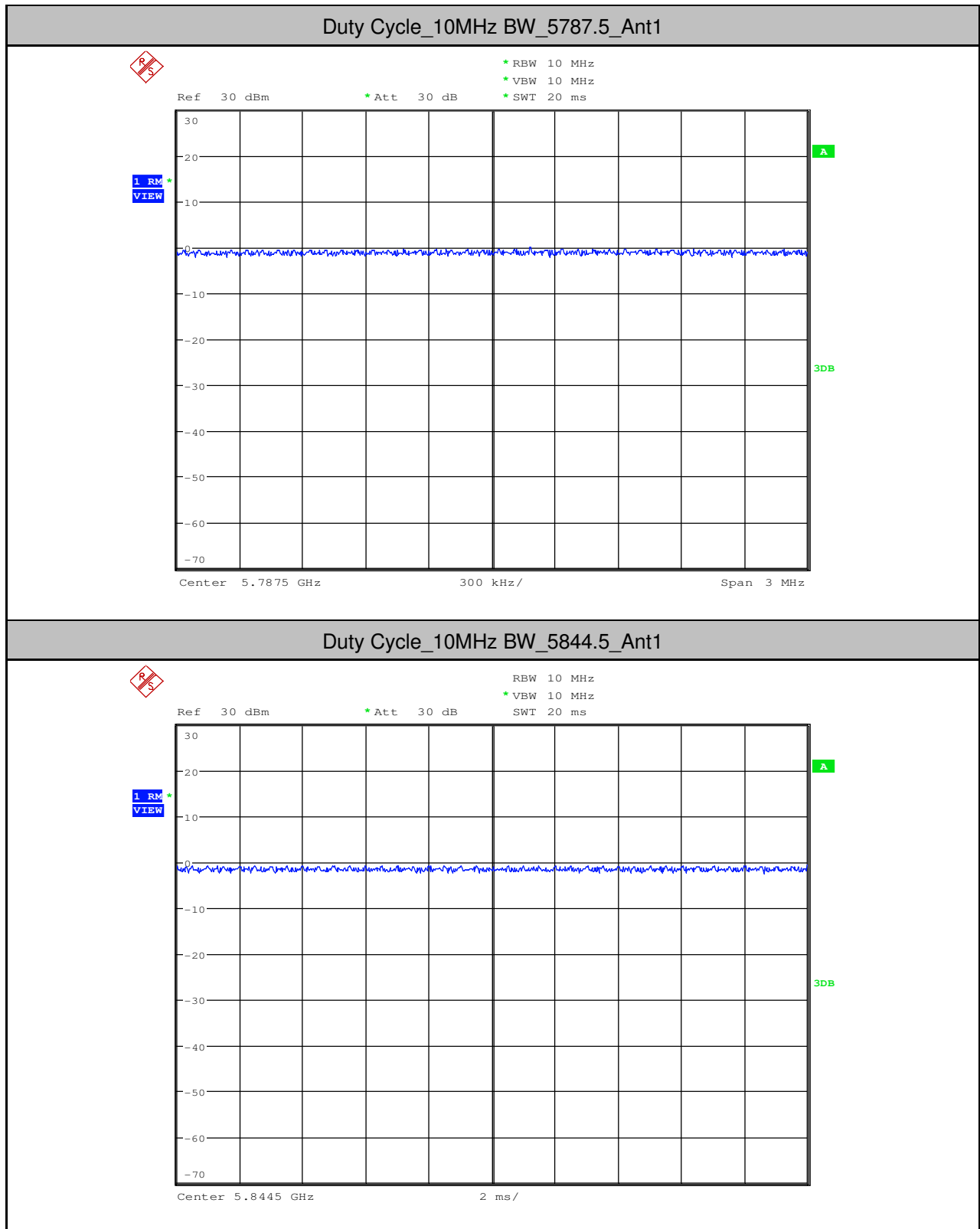


Duty Cycle_3MHz BW_5787.5_Ant1



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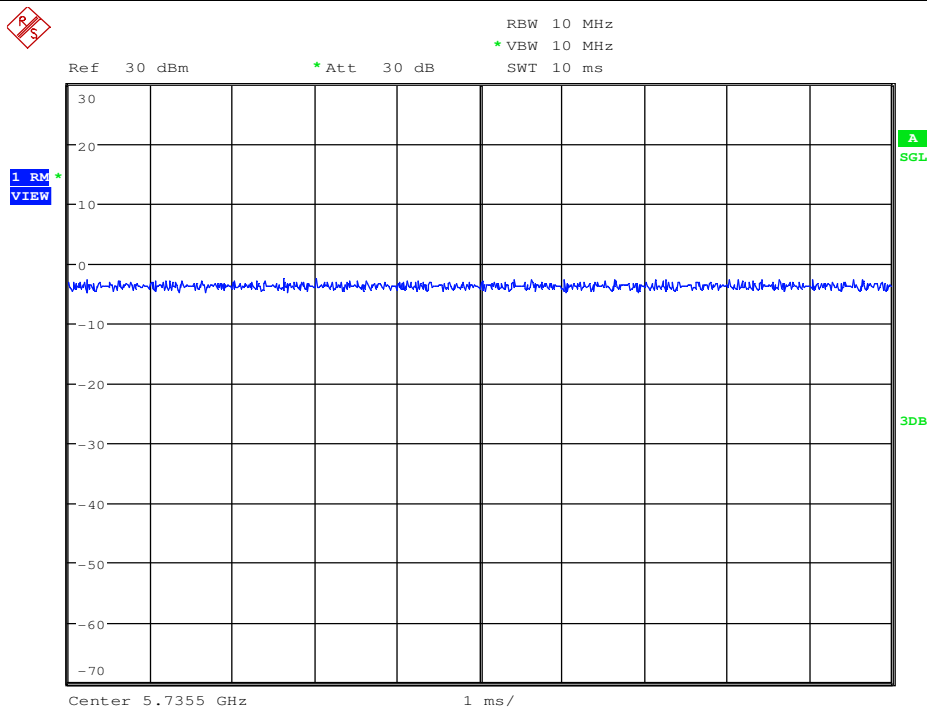
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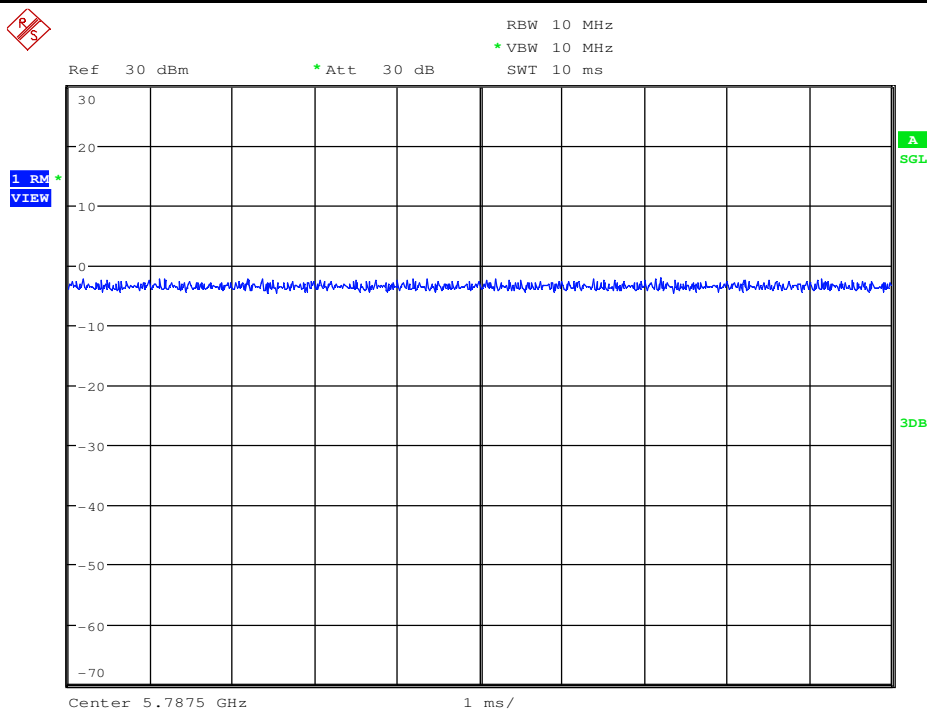
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Duty Cycle_20MHz BW_5735.5_Ant1

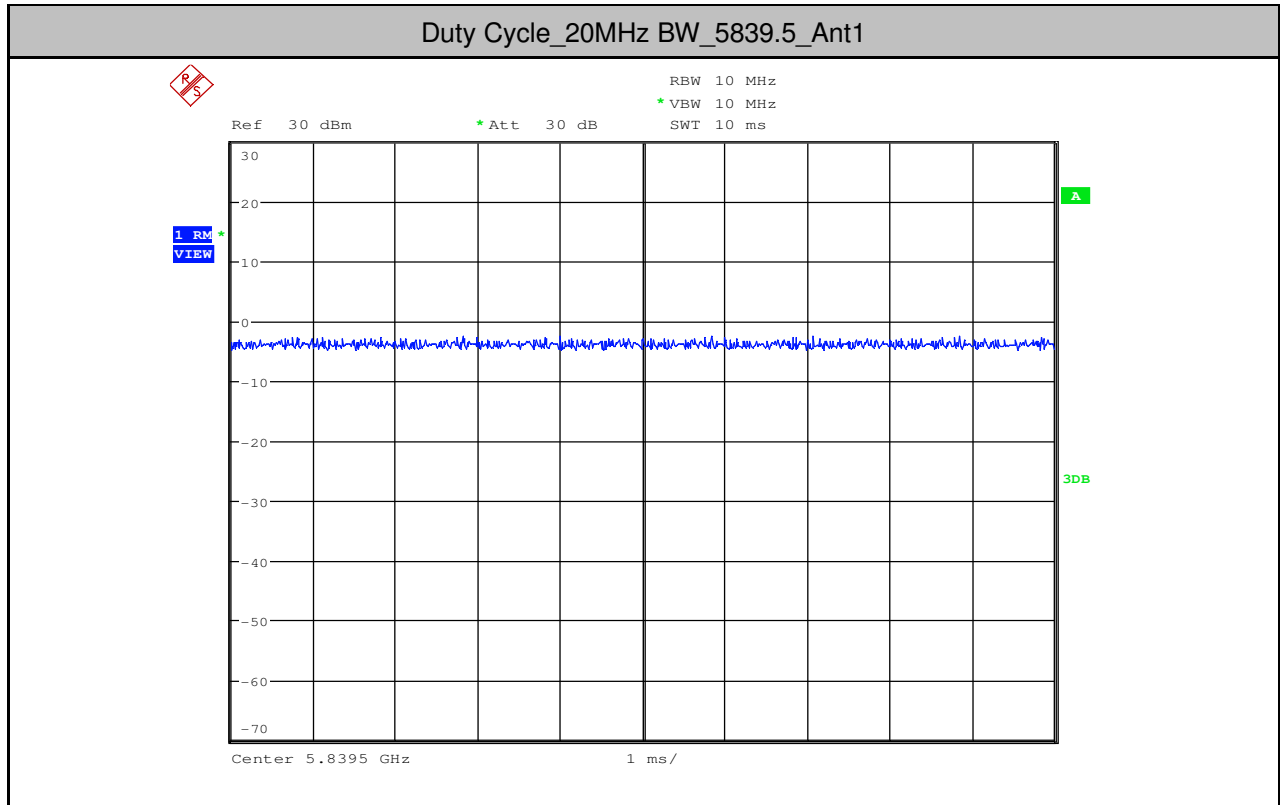


Duty Cycle_20MHz BW_5787.5_Ant1



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