



588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 6191 5666
Fax: +86 (0) 21 6191 5678
ee.shanghai@sgs.com

Report No.: SHEM130300045301
Page: 1 of 81

FCC Part 15C TEST REPORT

Application No.:	SHEM1303000453RF
Applicant:	Lenbrook Industries Limited
FCC ID:	SVC-USBDAC2TX
IC:	152A-USBDAC2TX
Equipment Under Test (EUT):	
NOTE: The following sample(s) submitted was/were identified on behalf of the client as	
EUT Name:	Wireless USB DAC2
Brand Name:	NAD
Model No.:	Wireless USB DAC 2 Transmitter
Fundamental Frequency :	2.4GHz Band: 2412MHz to 2464MHz 5.2GHz Band: 5180MHz to 5240MHz 5.8GHz Band: 5736MHz to 5814MHz
Test Frequency:	2.4GHz Band: 2412MHz to 2464MHz 5.8GHz Band: 5736MHz to 5814MHz
Standards:	FCC PART 15 SUBPART C, Section 15.247:2012 RSS-210 Issue 8 (December 2010) RSS-Gen Issue 3 (December 2010)
Date of Receipt:	March 26, 2013
Date of Test:	April 07, 2013 to April 10, 2013
Date of Issue:	May 21, 2013
Test Result :	PASS *

* In the configuration tested, the EUT (Equipment under test) complied with the standards specified above.



Tony Wu

E&E Section Manager

SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	May 21, 2013	/	Original

Authorized for issue by:			
Engineer	Zenger Zhang		Zenger Zhang
Clerk	Susie Liu		Susie Liu
Reviewer	Keny Xu		Keny Xu

3 Test Summary

TEST ITEM	FCC REFERANCE	IC REFERANCE	Test Procedure	RESULT
Power line conducted emission	15.207	RSS-Gen Issue 8 Clause 7.2.4	ANSI C63.4,2009 Clause 7.3	Pass
Radiated emission	15.205 & 15.209	RSS-Gen Issue 8 Clause 7.2.5	ANSI C63.4,2009 Clause 8.3	Pass
Minimum 6dB Bandwidth	15.247(a)(2)	RSS-210 Issue 8 Annex 8	KDB 558074 D01 Clause 8	Pass
Maximum peak output power	15.247(b)	RSS-210 Issue 8 Annex 8	KDB 558074 D01 Clause 9.1	Pass
Power spectrum density	15.247(e)	RSS-210 Issue 8 Annex 8	KDB 558074 D01 Clause 10.2	Pass
RF Conducted Spurious Emissions	15.247(d)	RSS-210 Issue 8 Annex 8	KDB 558074 D01 Clause 11 & Caluse 12	Pass
Radiated Emission BandEdge	15.247(d)	RSS-210 Issue 8 Annex 8	KDB 558074 D01 Caluse 12	Pass
Emission outside the Frequency band	15.247(d)	RSS-210 Issue 8 Annex 8	KDB 558074 D01 Clause 11 & Caluse 12	Pass
Occupied bandwidth	---	RSS-Gen Issue 3 Clause 4.6.1	RSS-Gen Issue 3 Clause 4.6.1	Tested

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5 General Information

5.1 Client Information

Applicant :	Lenbrook Industries Limited
Applicant Address:	633 Granite Court, Pickering Ontario, Toronto L1W 3K1, Canada
Manufacturer:	Lenbrook Industries Limited
Manufacturer Address:	633 Granite Court, Pickering Ontario, Toronto L1W 3K1, Canada
Factory:	Hansong (Nanjing) Technology Ltd.

5.2 Details of E.U.T.

EUT Name:	Wireless USB DAC2	
Brand Name:	NAD	
Model No:	Wireless USB DAC 2 Transmitter	
Power Supply:	DC 5V (USB Cable)	
Frequency Band Channels :	2.4GHz Band Channel Description:	
	Channel of Transmitter	Frequency(MHz)
	Low	2412
	Mid	2438
	High	2464
	5.8GHz Band Channel Description:	
	Channel of Transmitter	Frequency(MHz)
	Low	5736
	Mid	5762
	High	5814
Modulation Type:	QPSK	
Antenna Type:	Integral antenna(Antenna Gain 2.0dBi)	
USB Cable:	18cm	

5.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	Supplied By
Leptop	Lenovo	L420	N/A	Supplied by SGS

5.4 Details of Test Mode

Test Mode	Description of Test Mode
Transmitting mode	Keep the EUT on continue transmitting mode.

Remark:N/A

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

5.6 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

6 Test Instruments

Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2014-02-22
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2014-02-22
3	Line impedance stabilization network	ETS	3816/2	00034161	2014-02-22

 RF Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2014-02-22
2	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2014-03-06
3	Horn Antenna	Rohde & Schwarz	HF906	100284	2014-06-01
4	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2014-03-06
5	Horn Antenna	SCHWARZBECK	BBHA 9170 373	BBHA9170 373	2014-03-06
6	Ultra broadband antenna	Rohde & Schwarz	HL562	100227	2013-10-08
7	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co.;Ltd	BY-2009P	--	2013-10-08
8	CLAMP METER	FLUKE	316	86080010	2014-06-01

9	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2013-10-08
11	High-low temperature cabinet	Shanghai YuanZhen	GW2050	--	2014-06-01
12	Tunable Notch Filter	Wainwright instruments GmbH	WRCT180 0.0/ 2000.0- 0.2/40- 5SSK	11	2014-06-01
13	Tunable Notch Filter	Wainwright instruments GmbH	WRCT800. 0/880.0- 0.2/40- 5SSK	9	2014-06-01
14	High pass Filter	FSCW	HP 12/2800- 5AA2	19A45-02	2014-06-01
15	Low nosie amplifier	TESEQ	LNA6900	70133	2014-02-22
16	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2014-02-22
17	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2014-02-22

7 Test Procedure & Measurement Data

7.1 E.U.T. Operation

Input voltage:	5V DC(Supply by USB cable)
Operating Environment:	
Temperature:	25.0 °C
Humidity:	45 % RH
Atmospheric Pressure:	1013 mbar
EUT Operation:	The EUT has been tested under operating condition. Test program was used to control the EUT for staying in continuous transmitting mode is programmed.

7.2 Conducted Emission Test

Test Requirement: FCC Part15 15.207

RSS-Gen Issue 8 Clause 7.2.4

Standard Applicable According to section 15.207,frequency 150KHz to 30MHz shall not not exceed the limit table as blew.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

EUT Setup

- 1.The conducted emission tests were performed in the test site,using the setup in accordance with the ANSI C63.4-2009.
- 2.EUT is applied by PC USB port.The AC Power adaptor of PC was plug-in LISN.The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3.The LISN was connected with 120V AC/60Hz power source.

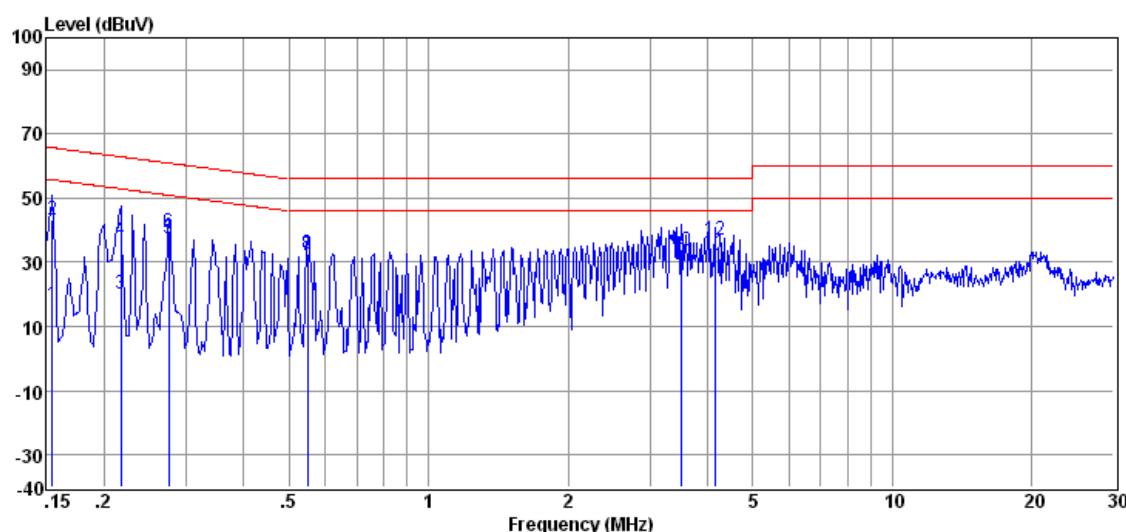
Measurement Result

Operation mode: Transmitter conducted to Receiver by wireless.

Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected.

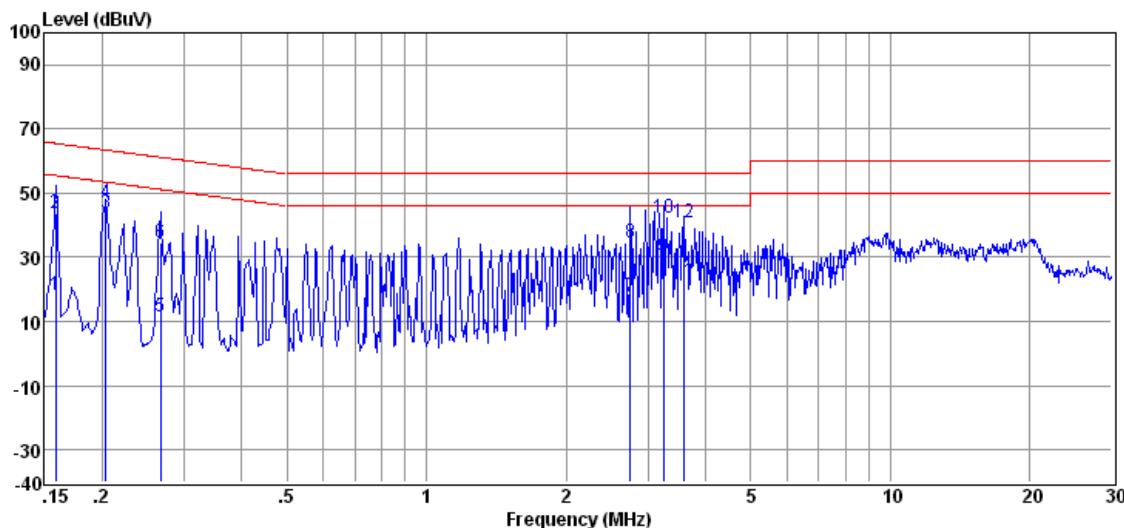
Please see the attached Quasi-peak and Average test results.

Level = Read Level + LISN/ISN Factor + Cable Loss.

Test Mode: Transmitting mode**Test Port:** AC Live Line

Freq (MHz)	Read Level (dB μ V)	LISN Factor (dB)	Cable Loss (dB)	Level (dB μ V)	Limit Line (dB μ V)	Over Limit (dB)	Detector	Phase
0.155	16.29	0.19	0.10	16.58	55.74	-39.16	Average	Live
0.155	42.98	0.19	0.10	43.27	65.74	-22.47	QP	Live
0.217	19.93	0.11	0.10	20.14	52.92	-32.78	Average	Live
0.217	37.00	0.11	0.10	37.21	62.92	-25.71	QP	Live
0.276	37.35	0.13	0.10	37.58	50.94	-13.36	Average	Live
0.276	39.38	0.13	0.10	39.61	60.94	-21.33	QP	Live
0.549	31.65	0.20	0.10	31.95	46.00	-14.05	Average	Live
0.549	32.41	0.20	0.10	32.71	56.00	-23.29	QP	Live
3.509	29.68	0.30	0.15	30.13	46.00	-15.87	Average	Live
3.509	33.38	0.30	0.15	33.83	56.00	-22.17	QP	Live
4.136	32.56	0.30	0.17	33.03	46.00	-12.97	Average	Live
4.136	36.43	0.30	0.17	36.90	56.00	-19.10	QP	Live

Test Mode: Transmitting mode

Test Port: AC Neutral Line


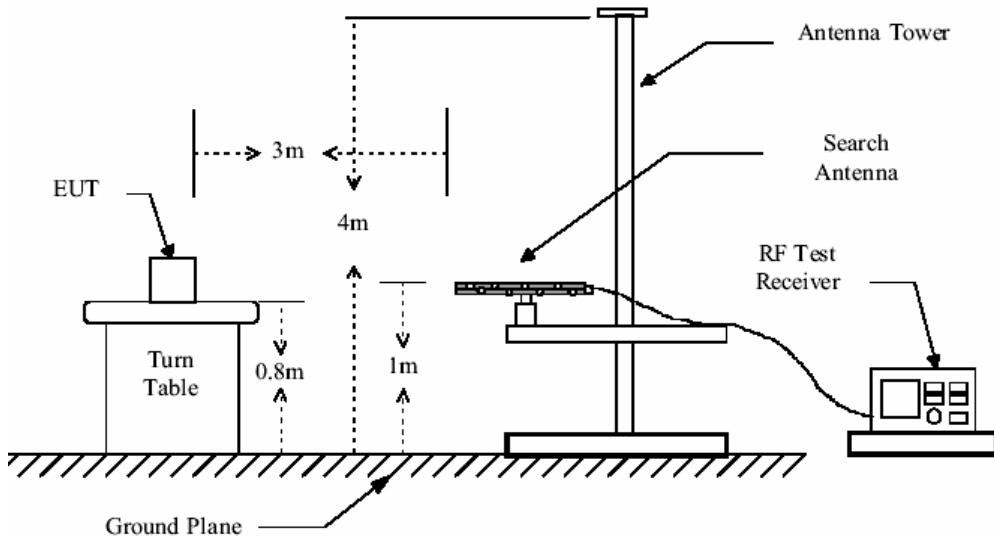
Freq (MHz)	Read Level (dB μ V)	LISN Factor (dB)	Cable Loss (dB)	Level (dB μ V)	Limit Line (dB μ V)	Over Limit (dB)	Detector	Phase
0.159	18.01	0.18	0.10	18.29	55.52	-37.23	Average	Neutral
0.159	43.40	0.18	0.10	43.68	65.52	-21.84	QP	Neutral
0.204	43.63	0.10	0.10	43.83	53.45	-9.62	Average	Neutral
0.204	46.67	0.10	0.10	46.87	63.45	-16.58	QP	Neutral
0.267	11.19	0.10	0.10	11.39	51.20	-39.81	Average	Neutral
0.267	34.20	0.10	0.10	34.40	61.20	-26.80	QP	Neutral
2.750	17.51	0.27	0.13	17.91	46.00	-28.09	Average	Neutral
2.750	34.01	0.27	0.13	34.41	56.00	-21.59	QP	Neutral
3.241	30.03	0.25	0.14	30.42	46.00	-15.58	Average	Neutral
3.241	41.72	0.25	0.14	42.11	56.00	-13.89	QP	Neutral
3.584	22.34	0.24	0.15	22.73	46.00	-23.27	Average	Neutral
3.584	40.23	0.24	0.15	40.62	56.00	-15.38	QP	Neutral

7.3 Radiated Spurious Emission Test

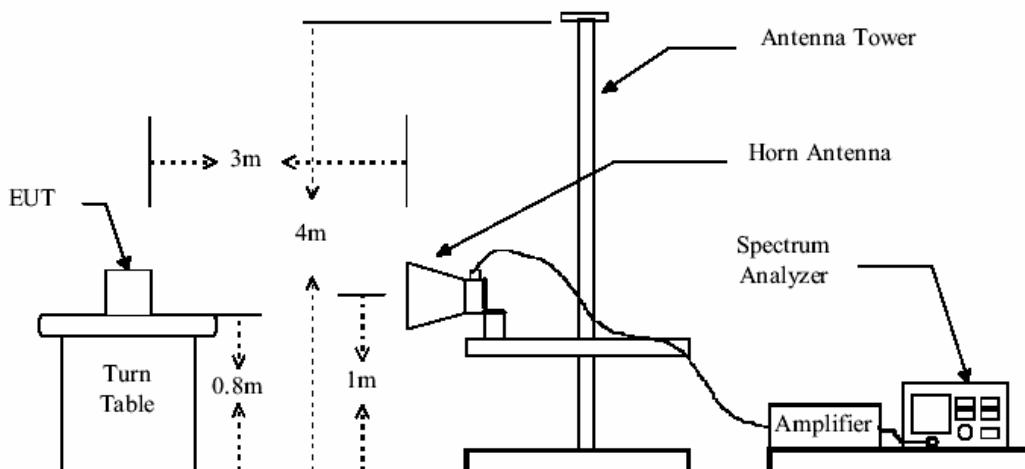
Test Requirement:	FCC Part15 247(d) and FCC Part 15.209
Standard Applicable:	RSS-Gen Issue 8 Clause 7.2.5 According to section 15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in section 15.209(a). And according to section 15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, which is lower.
Measurement Procedure:	<ol style="list-style-type: none">1. The EUT was placed on a turn table which is 0.8m above ground plane.2. Pre-test with the Horizontal, Vertical and other status towards to the test antenna. To find the worst status.3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions. Test instrumentation resolution bandwidth 120 kHz and Quasi-Peak detector applies (30 MHz - 1000 MHz). 1MHz resolution bandwidth and Peak detector apply (1000 MHz – 40GHz) Above 1GHz (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO.5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.7. Repeat above procedures until all frequency measured were complete.

Radiated Test Set-up:

Radiated Emission Test Set-up, Frequency Below 1000MHz



Radiated Emission Test Set-up Frequency Over 1GHz



Low noise amplifier was used below 1GHz, High pass Filter was used above 1GHz.

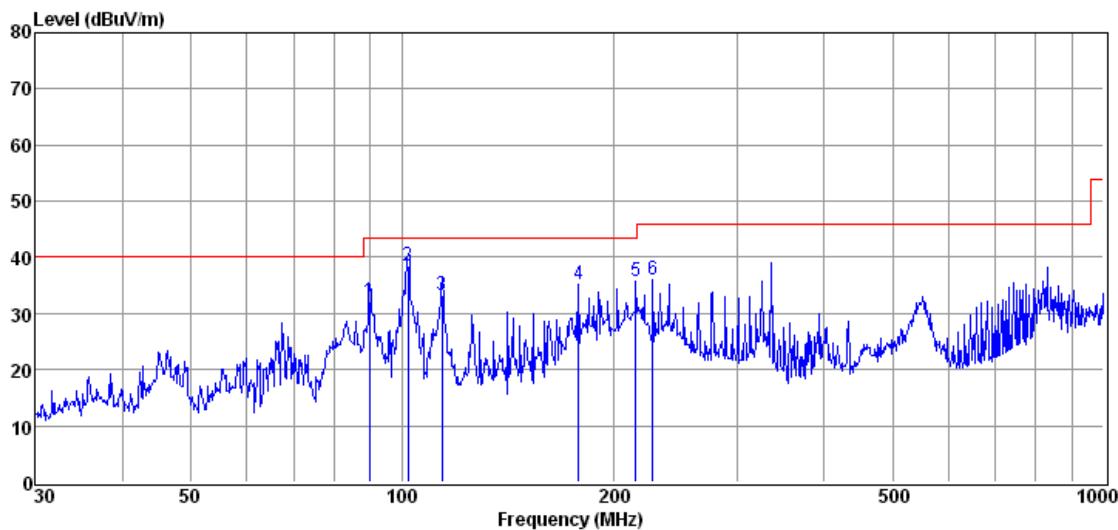
Tests results:

From the pre-test the worst status is the EUT Horizontal towards to the antenna. Below is the worst test results.

30MHz~1GHz Spurious Emissions

Quasi-Peak Measurement

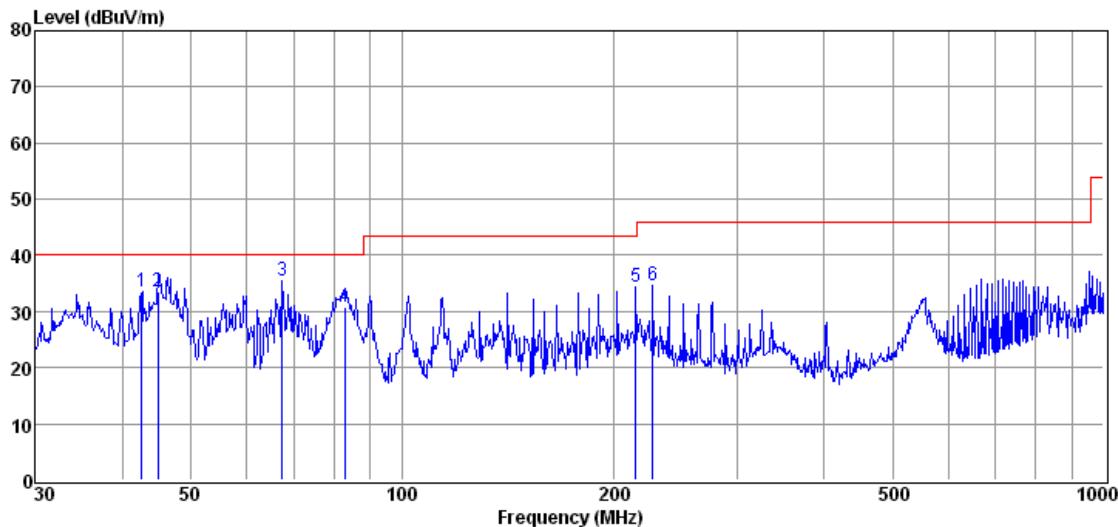
Antenna:Horizontal



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit
(Mark)	(MHz)	(dB μ V)	(dB/m)	(dB)	(dB)	(dB μ V/m)	(dBuV/m)	(dB)
1	89.92	47.49	8.50	24.70	0.95	32.24	43.50	-11.26
2	101.99	52.81	9.38	24.70	1.05	38.54	43.50	-4.96
3	114.06	46.42	10.55	24.70	1.11	33.38	43.50	-10.12
4	178.43	47.13	11.29	24.60	1.40	35.22	43.50	-8.28
5	215.50	49.65	9.14	24.60	1.58	35.77	43.50	-7.73
6	227.90	49.72	9.26	24.60	1.63	36.01	46.00	-9.99

Quasi-Peak Measurement

Antenna:Vertical



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit
(Mark)	(MHz)	(dB μ V)	(dB/m)	(dB)	(dB)	(dB μ V/m)	(dBuV/m)	(dB)
1	42.58	44.38	13.20	24.70	0.58	33.46	40.00	-6.54
2	44.85	44.66	13.11	24.70	0.60	33.67	40.00	-6.33
3	67.50	48.32	11.15	24.70	0.78	35.55	40.00	-4.45
4	82.81	45.91	8.72	24.70	0.89	30.82	40.00	-9.18
5	215.45	48.36	9.15	24.60	1.58	34.49	43.50	-9.01
6	227.73	48.45	9.25	24.60	1.63	34.73	46.00	-11.27

Above 1GHz Spurious Emissions

EUT mode: 2.4GHz Band Antenna A

Test Antenna: Horizontal				Test Channel: Low			
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4816	37.43	8.25	45.68	54	8.32	peak
2	7264	37.09	9.77	46.86	54	7.14	peak
3	9688	36.79	11.68	48.47	54	5.53	peak

Test Antenna: Vertical				Test Channel: Low			
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4816	37.63	8.25	45.88	54	8.12	peak
2	7264	37.49	9.77	47.26	54	6.74	peak
3	9664	37.11	11.7	48.81	54	5.19	peak

Test Antenna: Horizontal				Test Channel: Middle			
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4864	35.27	8.32	43.59	54	10.41	peak
2	7312	38.78	9.81	48.59	54	5.41	peak
3	9760	37.04	11.63	48.67	54	5.33	peak

Test Antenna: Vertical				Test Channel: Middle			
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4768	40.93	8.19	49.12	54	4.88	peak
2	7312	38.99	9.81	48.80	54	5.20	peak
3	9784	37.65	11.62	49.27	54	4.73	peak

Test Antenna: Horizontal				Test Channel: High			
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector

1	4960	36.91	8.45	45.36	54	8.64	peak
2	7408	37.09	9.87	46.96	54	7.04	peak
3	9856	37.56	11.57	49.13	54	4.87	peak

Test Antenna: Vertical
Test Channel: High

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4912	37.99	8.39	46.38	54	7.62	peak
2	7384	38.06	9.85	47.91	54	6.09	peak
3	9856	36.87	11.57	48.44	54	5.56	peak

EUT mode: 2.4GHz Band Antenna B
Test Antenna: Horizontal
Test Channel: Low

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4830	37.8	8.27	46.07	54	7.93	peak
2	7288	37.82	9.79	47.61	54	6.39	peak
3	9688	37.38	11.68	49.06	54	4.94	peak

Test Antenna: Vertical
Test Channel: Low

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4888	36.87	8.35	45.22	54	8.78	peak
2	7384	37.35	9.85	47.20	54	6.80	peak
3	9520	37.20	11.8	49.00	54	5.00	peak

Test Antenna: Horizontal
Test Channel: Middle

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4816	37.55	8.25	45.80	54	8.20	peak
2	7312	38.72	9.81	48.53	54	5.47	peak
3	9760	37.88	11.63	49.51	54	4.49	peak

Test Antenna: Vertical
Test Channel: Middle

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector

	(MHz)						
1	4792	38.74	8.22	46.96	54	7.04	peak
2	7408	36.79	9.87	46.66	54	7.34	peak
3	9592	36.86	11.75	48.61	54	5.39	peak

Test Antenna: Horizontal
Test Channel: High

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4864	36.58	8.32	44.90	54	9.10	peak
2	7312	38.13	9.81	47.94	54	6.06	peak
3	9760	38.82	11.63	50.45	54	3.55	peak

Test Antenna: Vertical
Test Channel: High

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4960	36.85	8.45	45.30	54	8.70	peak
2	7360	37.92	9.84	47.76	54	6.24	peak
3	9688	37.45	11.68	49.13	54	4.87	peak

EUT mode: 5.8GHz Band Antenna A
Test Antenna: Horizontal
Test Channel: Low

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11416	36.60	11.10	47.70	54	6.30	peak
2	17200	42.19	11.3	53.49	54	0.51	peak
3	22768	41.47	11.69	53.16	54	0.84	peak

Test Antenna: Vertical
Test Channel: Low

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11512	36.97	11.18	48.15	54	5.85	peak

2	17200	41.73	11.30	53.03	54	0.97	peak
3	23248	41.19	11.73	52.92	54	1.08	peak

Test Antenna: Horizontal
Test Channel: Middle

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11512	36.98	11.18	48.16	54	5.84	peak
2	17176	42.58	11.30	53.88	54	0.12	peak
3	22720	40.71	11.69	52.40	54	1.60	peak

Test Antenna: Vertical
Test Channel: Middle

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11512	37.90	11.18	49.08	54	4.92	peak
2	17296	42.24	11.30	53.54	54	0.46	peak
3	23224	41.29	11.73	53.02	54	0.98	peak

Test Antenna: Horizontal
Test Channel: High

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11632	36.08	11.27	47.35	54	6.65	peak
2	17488	41.67	11.31	52.98	54	1.02	peak
3	23440	42.25	11.74	53.99	54	0.01	peak

Test Antenna: Vertical
Test Channel: High

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11632	35.70	11.27	46.97	54	7.03	peak
2	17368	42.59	11.30	53.89	54	0.11	peak
3	23320	41.98	11.73	53.71	54	0.29	peak

EUT mode: Antenna B
Test Antenna: Horizontal
Test Channel: Low

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11680	35.16	11.31	46.47	54	7.53	peak
2	17200	41.63	11.3	52.93	54	1.07	peak
3	23128	41.77	11.72	53.49	54	0.51	peak

Test Antenna: Vertical
Test Channel: Low

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11488	38.16	11.16	49.32	54	4.68	peak
2	17104	40.92	11.29	52.21	54	1.79	peak
3	22720	40.31	11.69	52.00	54	2.00	peak

Test Antenna: Horizontal
Test Channel: Middle

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11536	36.29	11.20	47.49	54	6.51	peak
2	17368	41.81	11.30	53.11	54	0.89	peak
3	22840	40.75	11.70	52.45	54	1.55	peak

Test Antenna: Vertical
Test Channel: Middle

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11608	36.45	11.25	47.70	54	6.30	peak
2	17488	41.58	11.31	52.89	54	1.11	peak
3	22768	41.82	11.69	53.51	54	0.49	peak

Test Antenna: Horizontal**Test Channel: High**

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11680	35.74	11.31	47.05	54	6.95	peak
2	17464	41.37	11.31	52.68	54	1.32	peak
3	22552	39.31	11.68	50.99	54	3.01	peak

Test Antenna: Vertical**Test Channel: High**

Mark	Frequenc y (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11680	37.38	11.31	48.69	54	5.31	peak
2	17176	42.29	11.30	53.59	54	0.41	peak
3	22168	40.51	11.65	52.16	54	1.84	peak

Remark: No other radiation has been found

Test Level =Receiver Reading + Antenna Factor + Cable Loss –Preamplifier Factor.

Remark: No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

7.4 6dB Bandwidth

Test Requirement: FCC Part15 247(a)(2)

Standard Applicable: According to section 15.247(a)(2),Systems using digital modulationg techniques may operate in the 902-928MHz,2400-2483.5MHz, and 5725-5850MHz bands.The minimum 6dB bandwidth shall be at least 500KHz.

Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100KHz, VBW =3* RBW, Span=30/ 50MHz, Sweep=auto
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

Measurement Result:

For 2412-2464MHz Band Antenna A:

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
LOW	2412	9.96	500	PASS
MID	2438	9.96	500	PASS
HIGH	2464	9.96	500	PASS

For 2412-2464MHz Band Antenna B:

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
LOW	2412	9.96	500	PASS
MID	2438	9.96	500	PASS
HIGH	2464	9.96	500	PASS

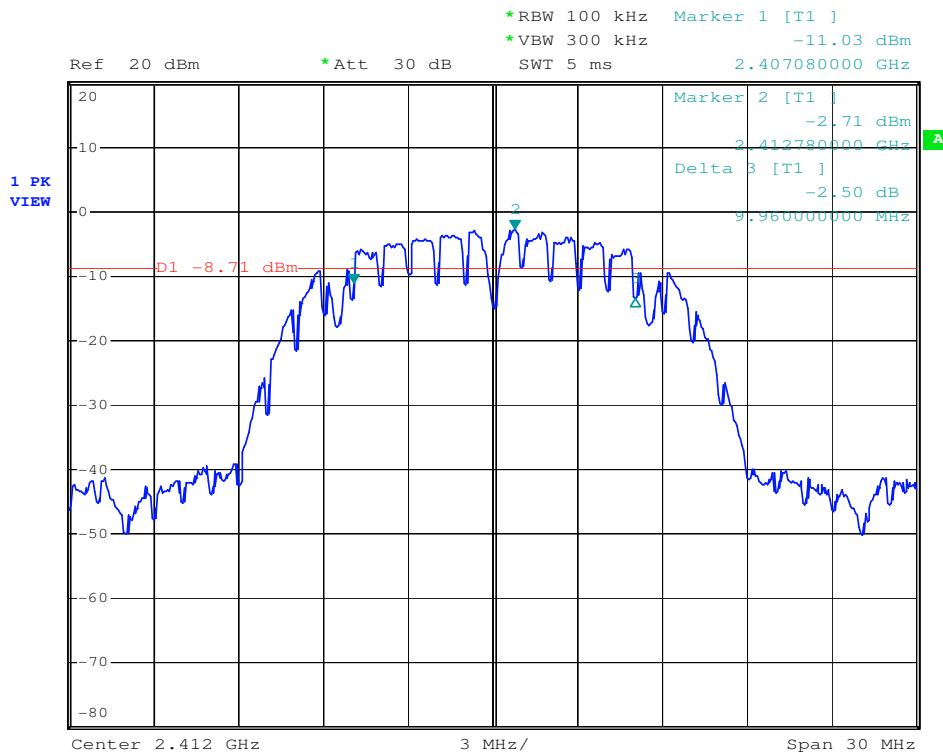
For 5736-5814MHz Band Antenna A:

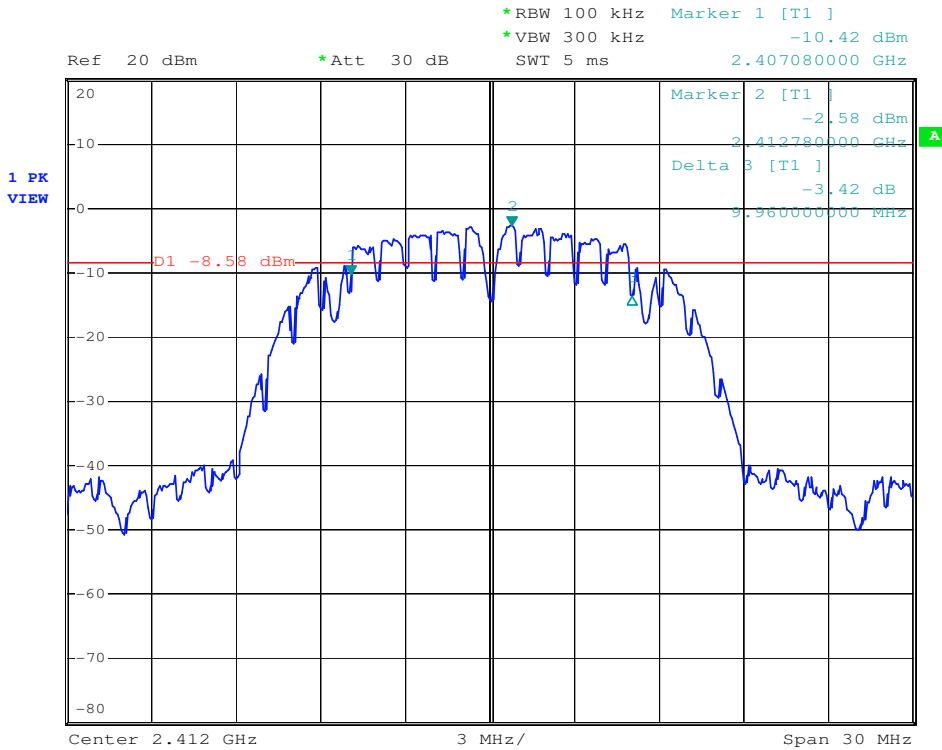
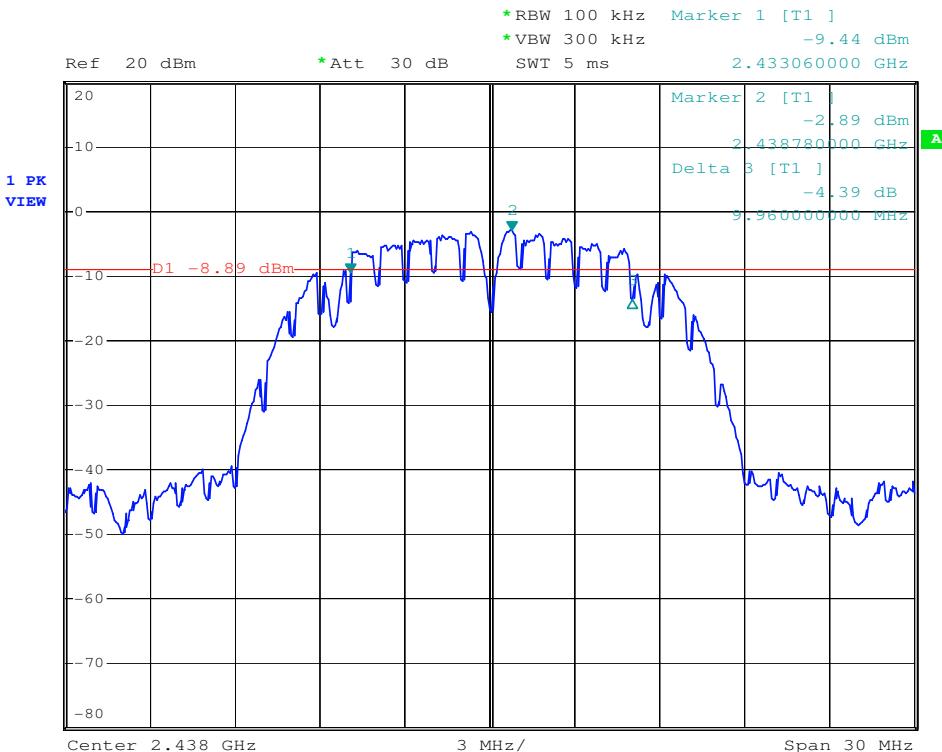
CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
LOW	5736	10.02	500	PASS
MID	5762	10.02	500	PASS
HIGH	5814	9.96	500	PASS

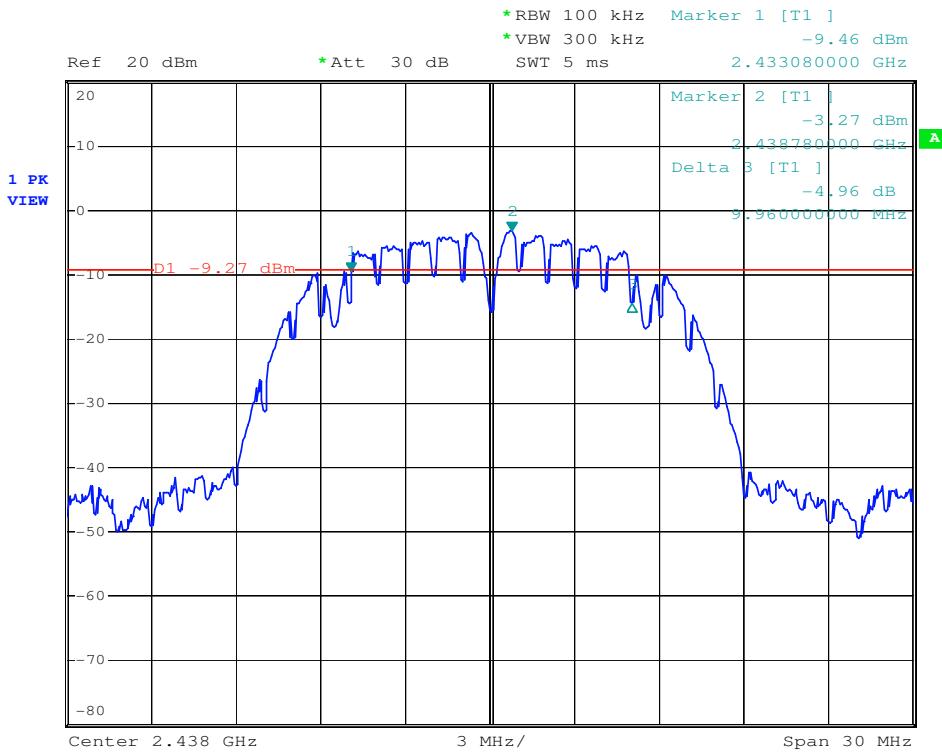
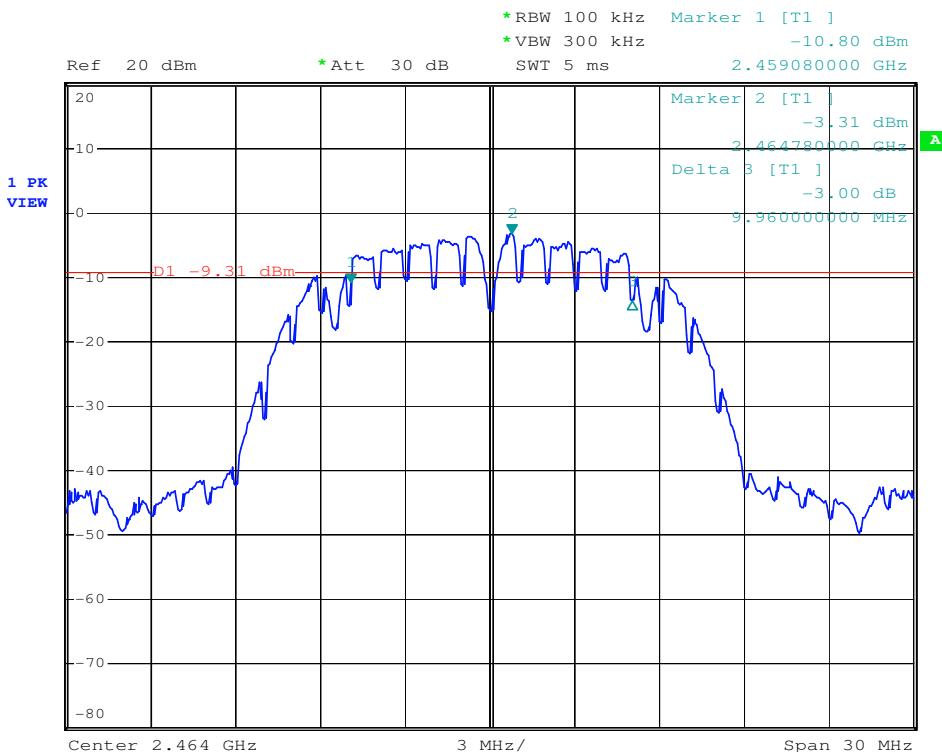
For 5736-5814MHz Band Antenna B:

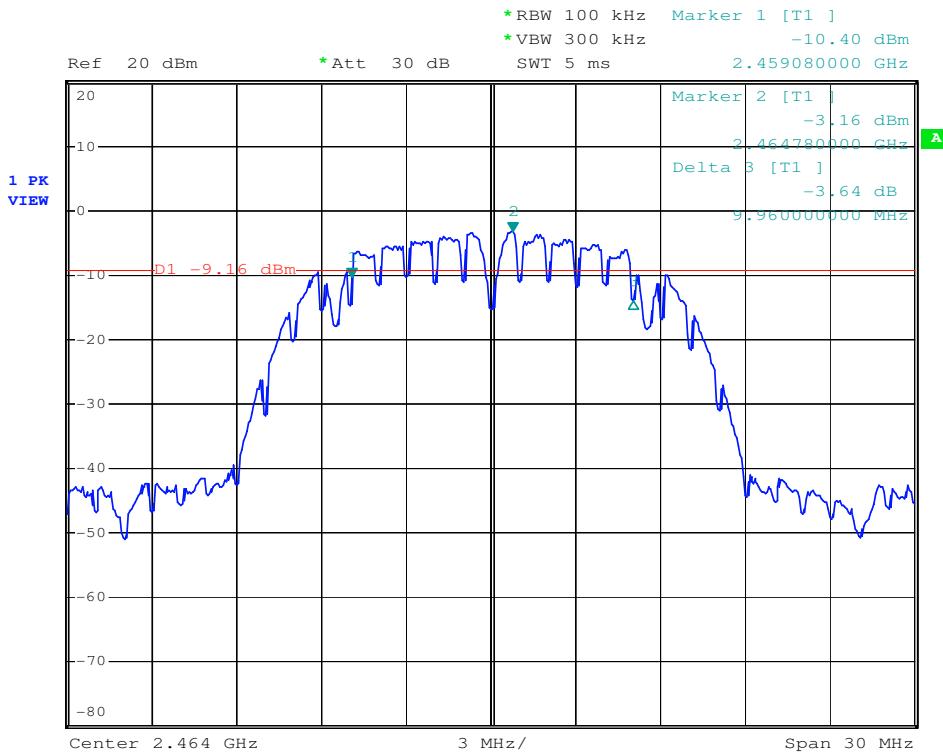
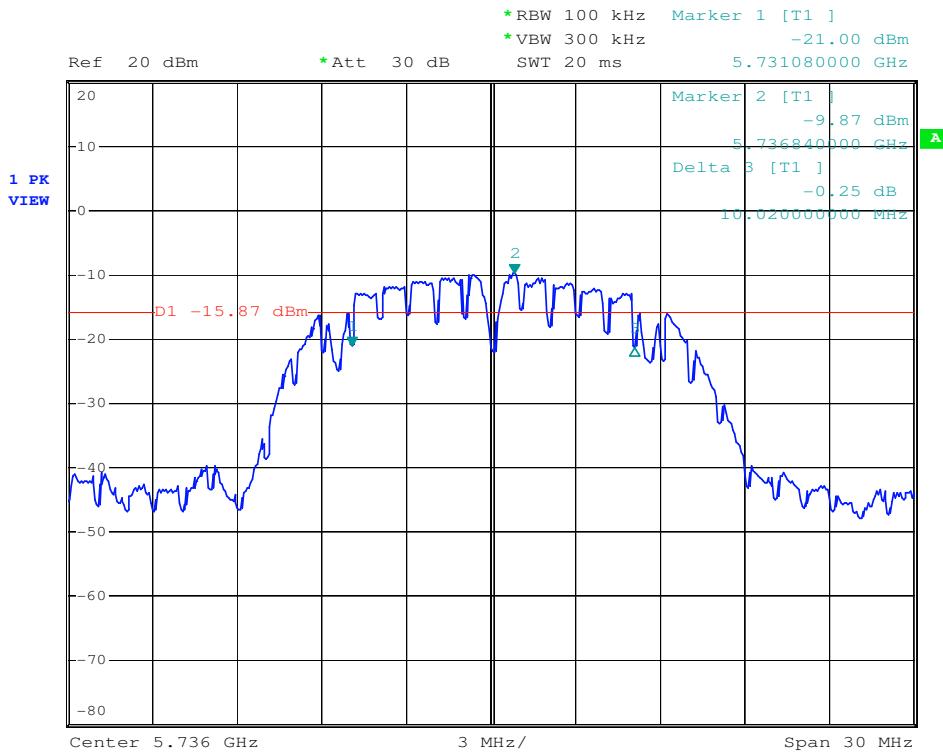
CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
LOW	5736	10.02	500	PASS
MID	5762	10.02	500	PASS
HIGH	5814	9.96	500	PASS

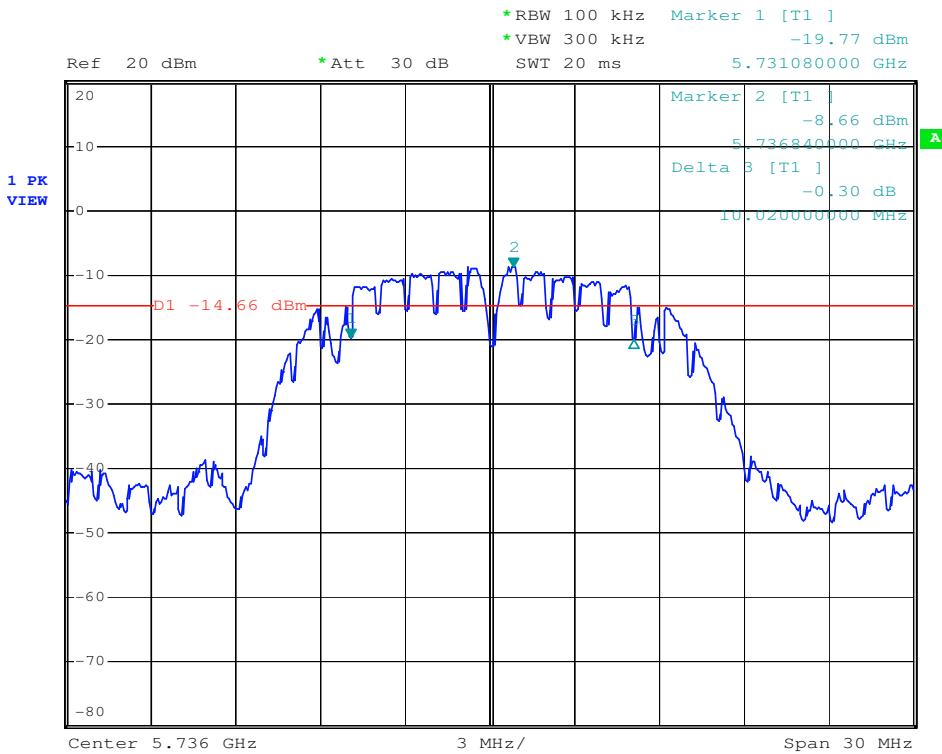
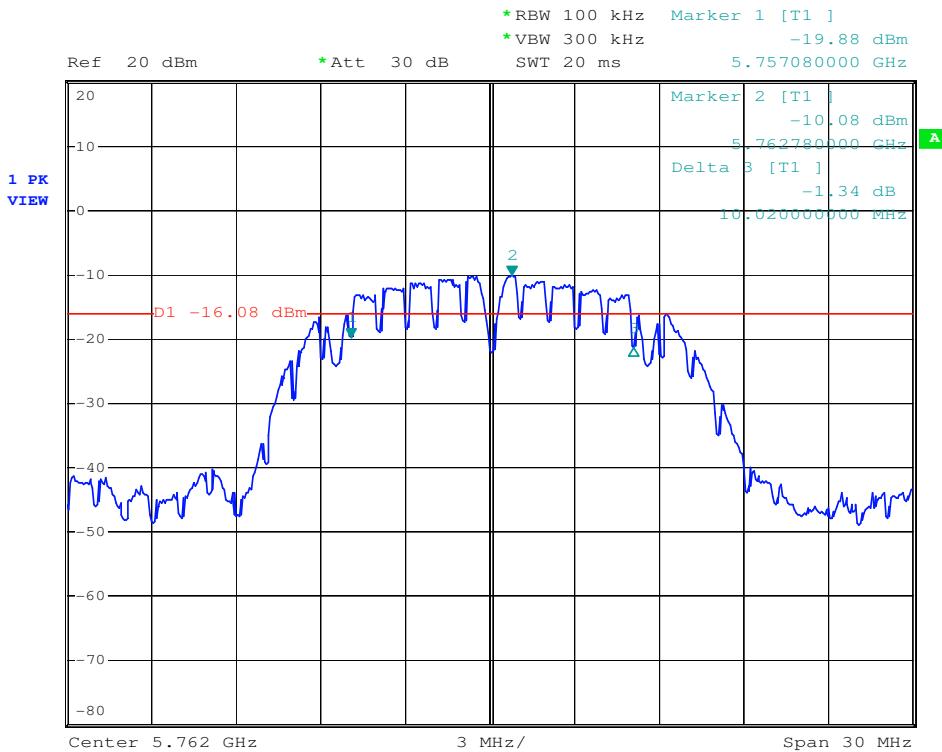
6dB Band Width: Antenna A CH 2412MHz

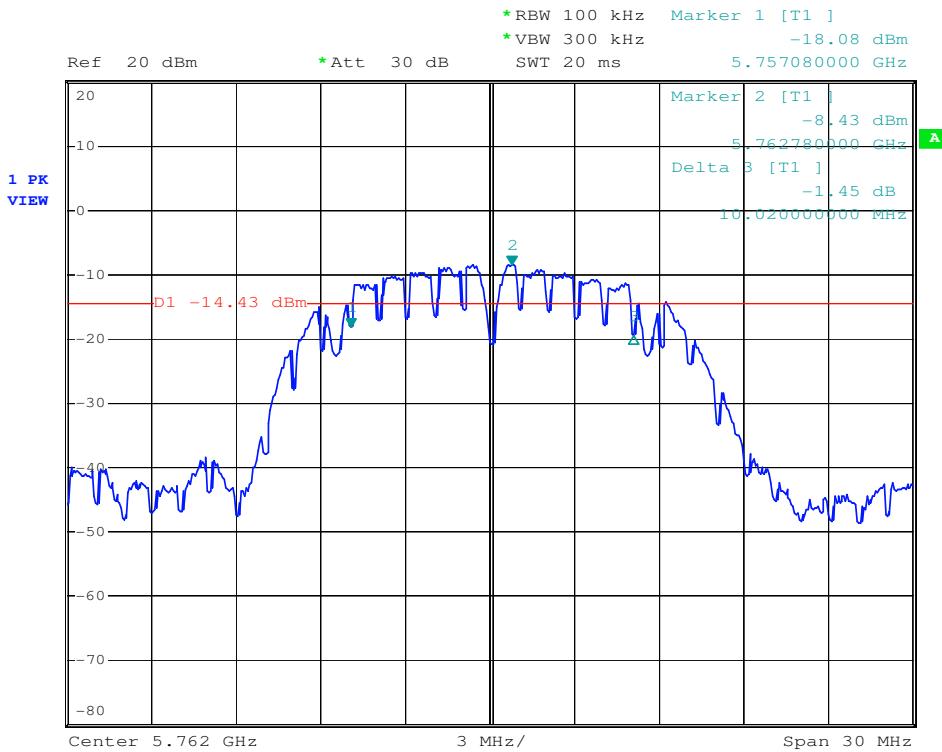
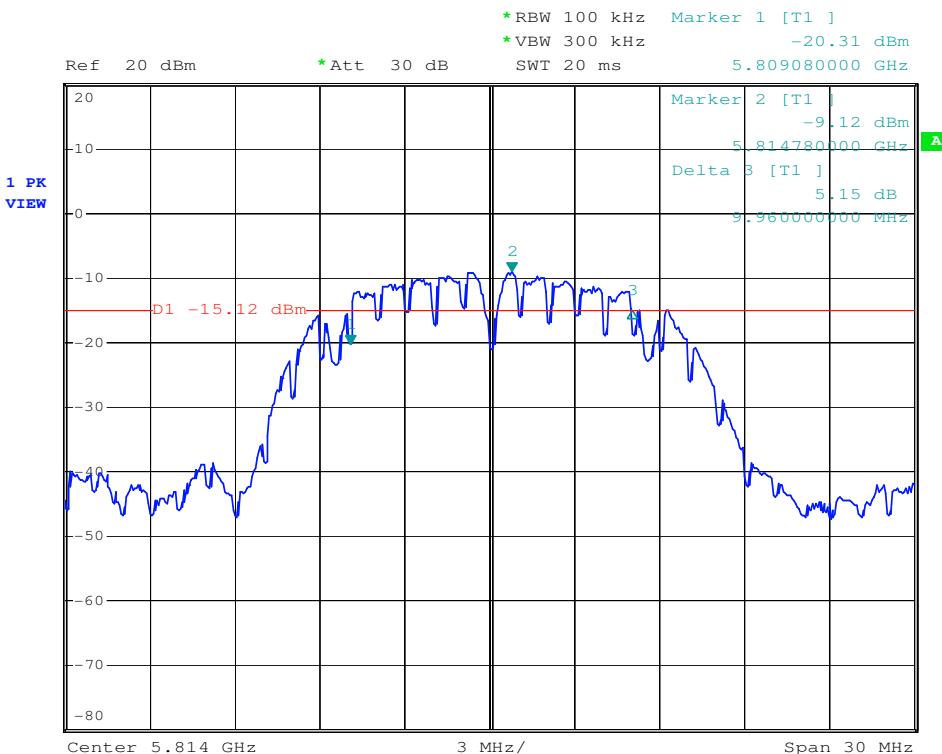


6dB Band Width: Antenna B CH 2412MHz

6dB Band Width Antenna A CH 2438MHz:


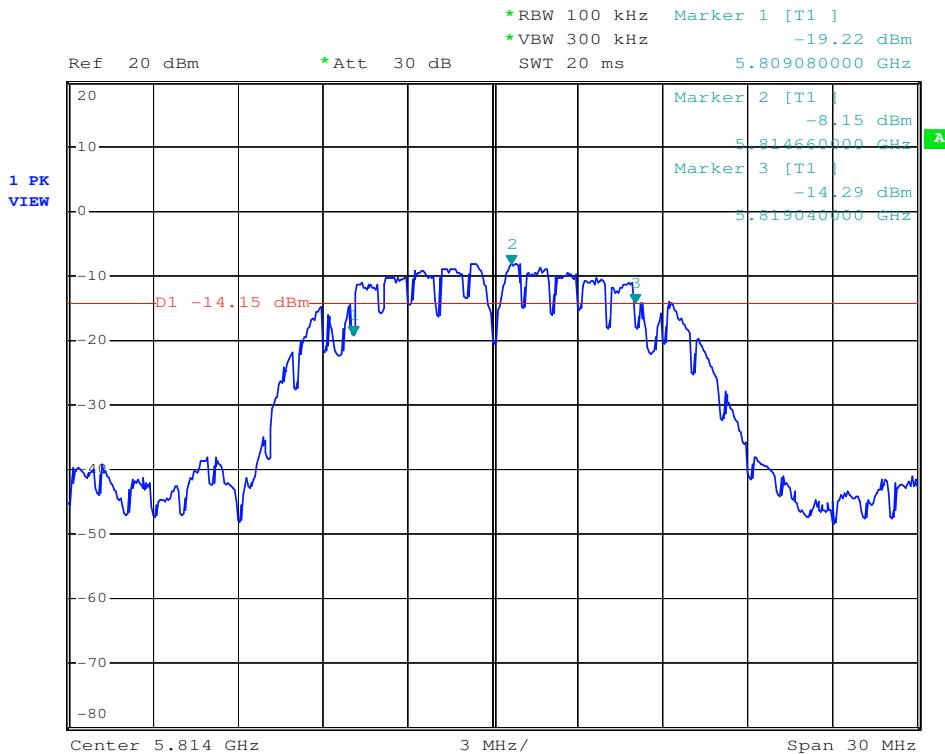
6dB Band Width Antenna B CH 2438MHz:

6dB Band Width Antenna A CH 2464MHz:


6dB Band Width Antenna B CH 2464MHz:

6dB Band Width Antenna A CH 5736MHz:


6dB Band Width Antenna B CH 5736MHz:

6dB Band Width Antenna A CH 5762MHz:


6dB Band Width Antenna B CH 5762MHz:

6dB Band Width Antenna A CH 5814MHz:


6dB Band Width Antenna B CH 5814MHz:



7.5 Peak Output Power Measurement

Test Requirement: FCC Part 15 15.247(a)(2),(b)
RSS-210 Issue 8 Annex 8

Standard Applicable: According to section 15.247(a)(2),(b)
(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Measuremet Produc

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF calbe from the antenna port to the spectrum.
3. Set the occur band to the entire emission bandwidth of the signal.
4. Record the max.channel power reading

Repeat above procedures until all the frequency measured were complete.

Measurement Result:

For Antenna A 2.4GHz Band:

CH	Frequency (MHz)	Reading Peak Power (dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Peak Power Limit (dBm)	Result
Low	2412	16.08	1.5	17.58	30	PASS
Middle	2438	16.32	1.5	17.82	30	PASS
High	2464	15.76	1.5	17.26	30	PASS

For Antenna B 2.4GHz Band:

CH	Frequency (MHz)	Reading Peak Power (dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Peak Power Limit (dBm)	Result
Low	2412	16.36	1.5	17.86	30	PASS
Middle	2438	16.50	1.5	18.00	30	PASS
High	2464	16.21	1.5	17.71	30	PASS

For Antenna A 5.8GHz Band:

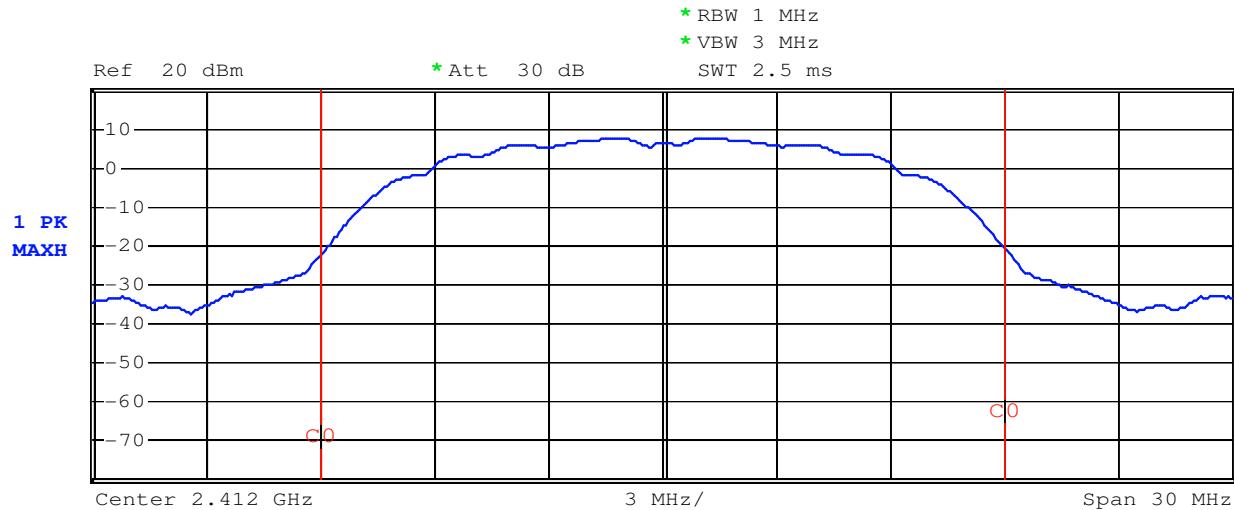
CH	Frequency (MHz)	Reading Peak Power (dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Peak Power Limit (dBm)	Result
Low	5736	10.40	1.9	12.30	30	PASS
Middle	5762	10.69	1.9	12.59	30	PASS
High	5814	10.68	1.9	12.58	30	PASS

For Antenna B 5.8GHz Band:

CH	Frequency (MHz)	Reading Peak Power (dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Peak Power Limit (dBm)	Result
Low	5736	10.93	1.9	12.83	30	PASS
Middle	5762	10.70	1.9	12.60	30	PASS
High	5814	10.75	1.9	12.65	30	PASS

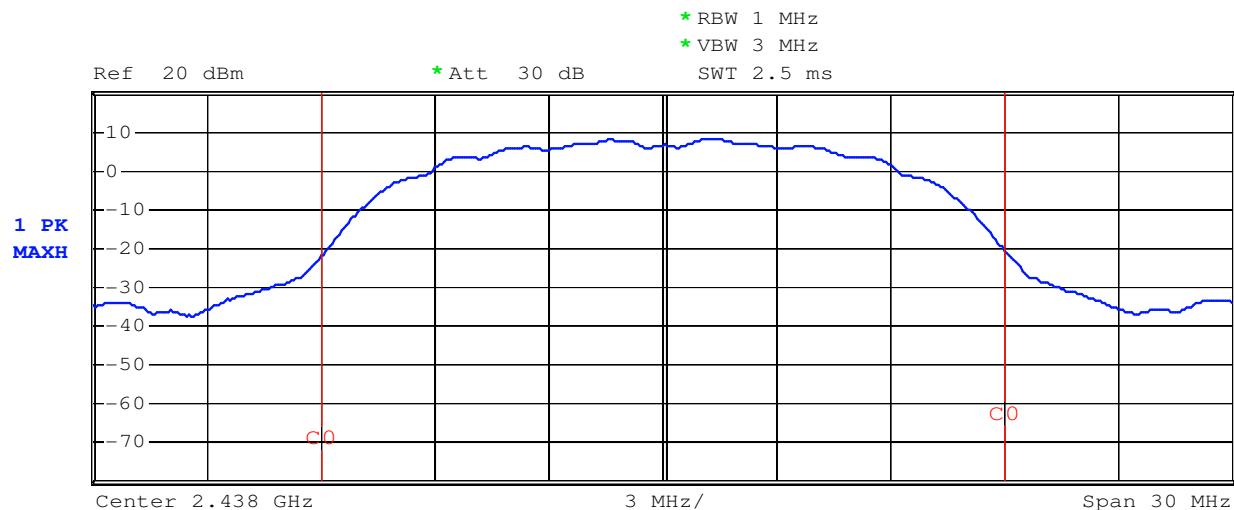
Test result plot as follows:

Test mode:	2.4GHz Band Antenna A	Test channel:	Low
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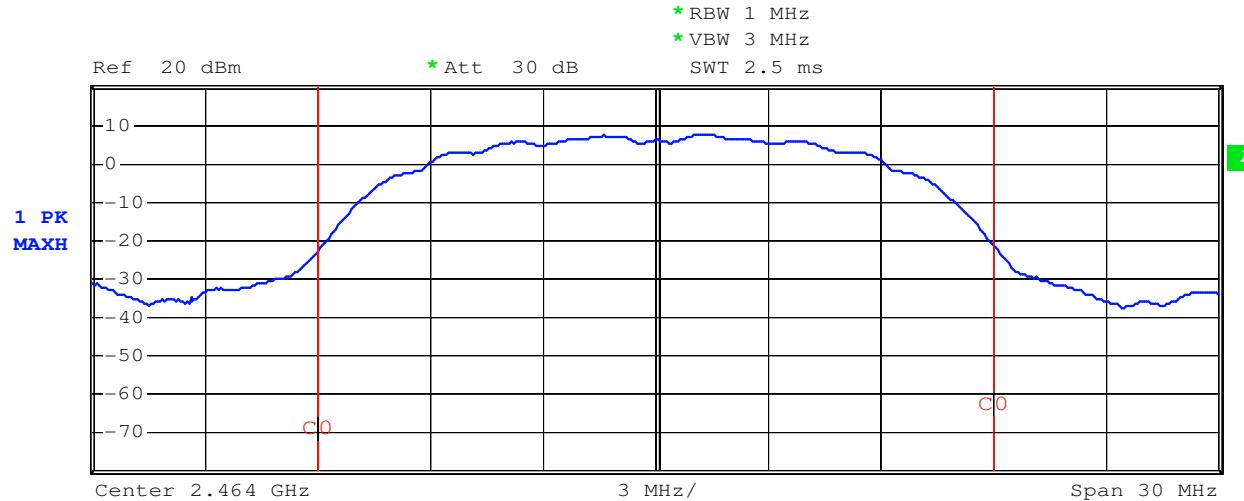
Tx Channel
 Bandwidth 18 MHz Power 16.08 dBm

Test mode:	2.4GHz Band Antenna A	Test channel:	Middle
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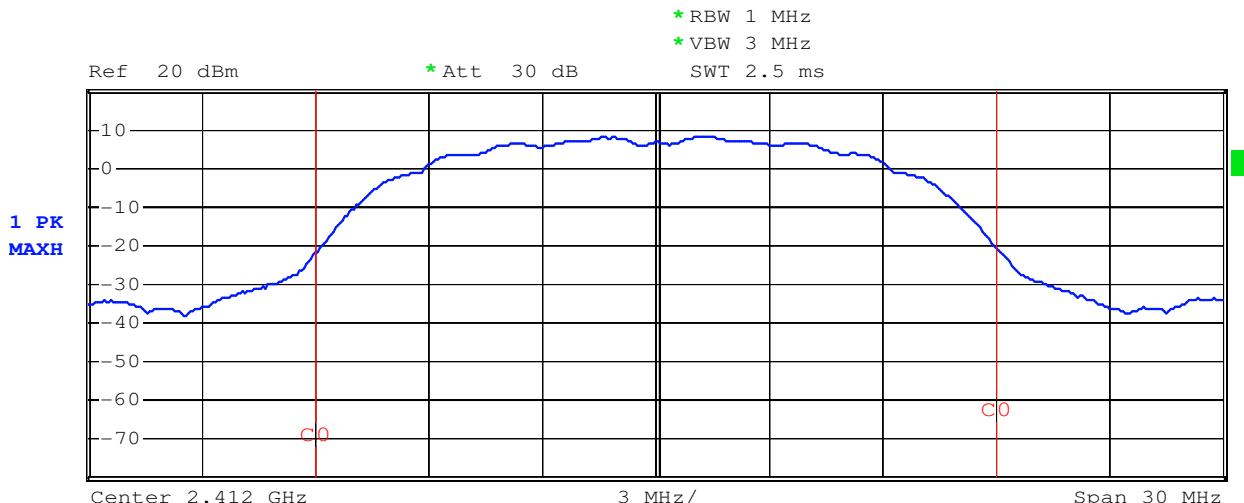
Tx Channel
 Bandwidth 18 MHz Power 16.32 dBm

Test mode:	2.4GHz Band Antenna A	Test channel:	High
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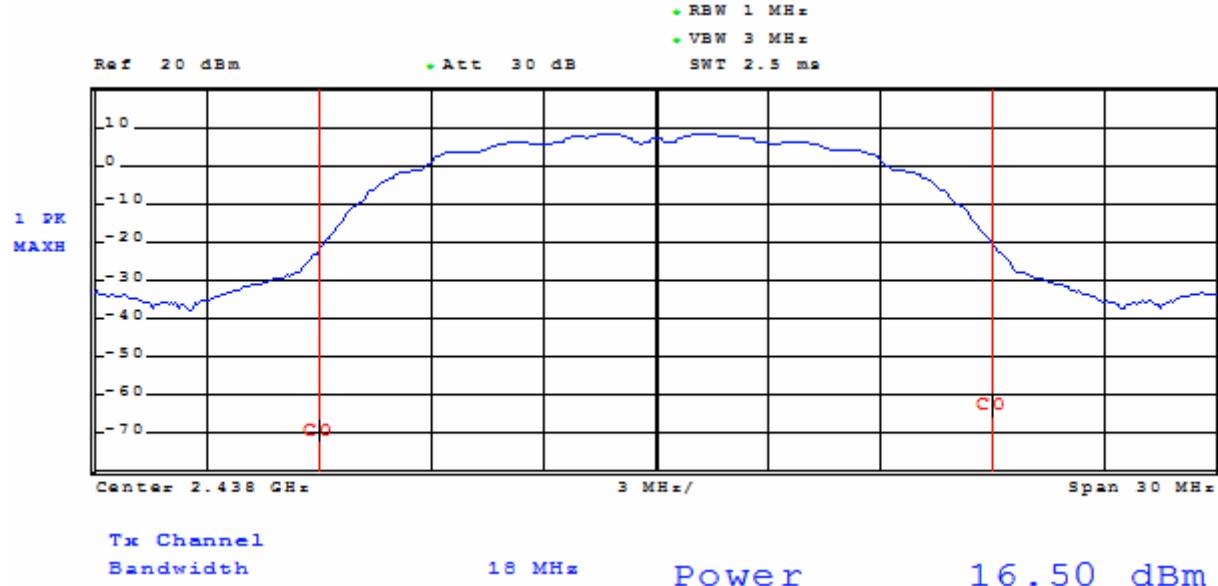
Tx Channel
Bandwidth 18 MHz Power 15.76 dBm

Test mode:	2.4GHz Band Antenna B	Test channel:	Low
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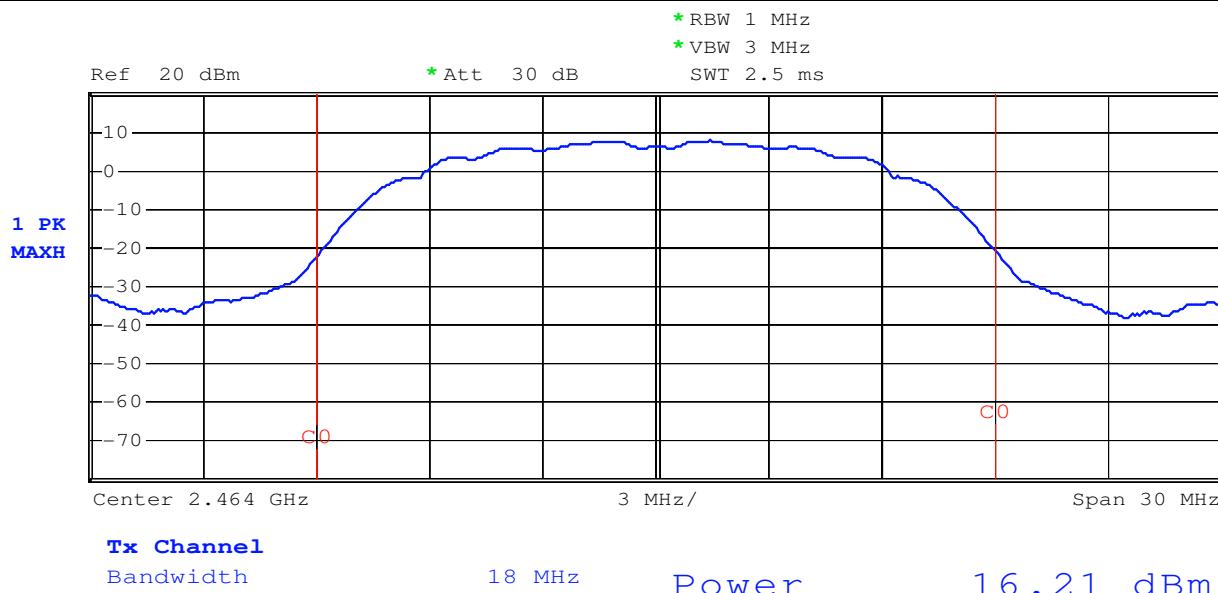


Tx Channel
Bandwidth 18 MHz Power 16.36 dBm

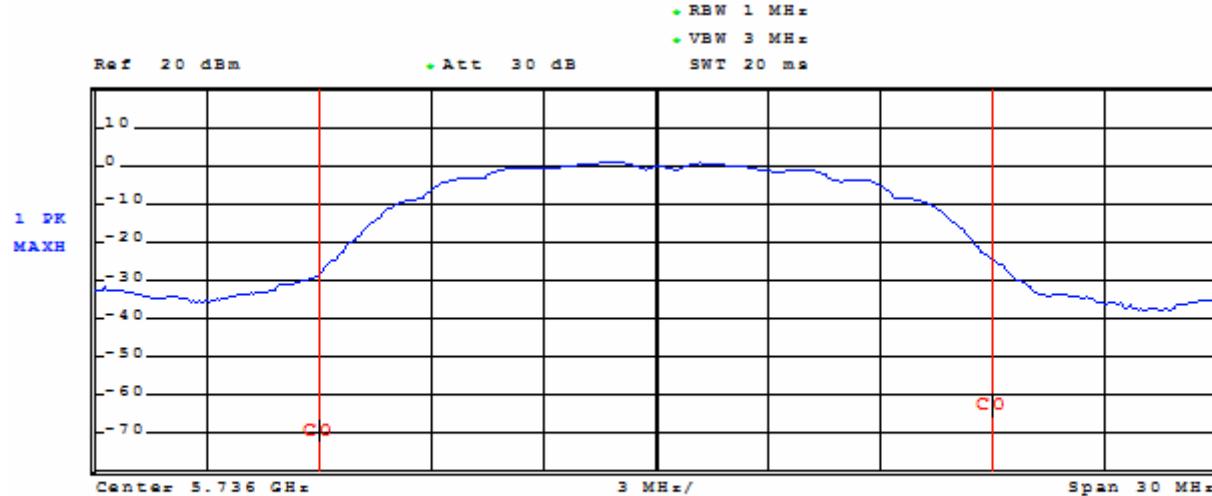
Test mode:	2.4GHz Band Antenna B	Test channel:	Middle
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Test mode:	2.4GHz Band Antenna B	Test channel:	High
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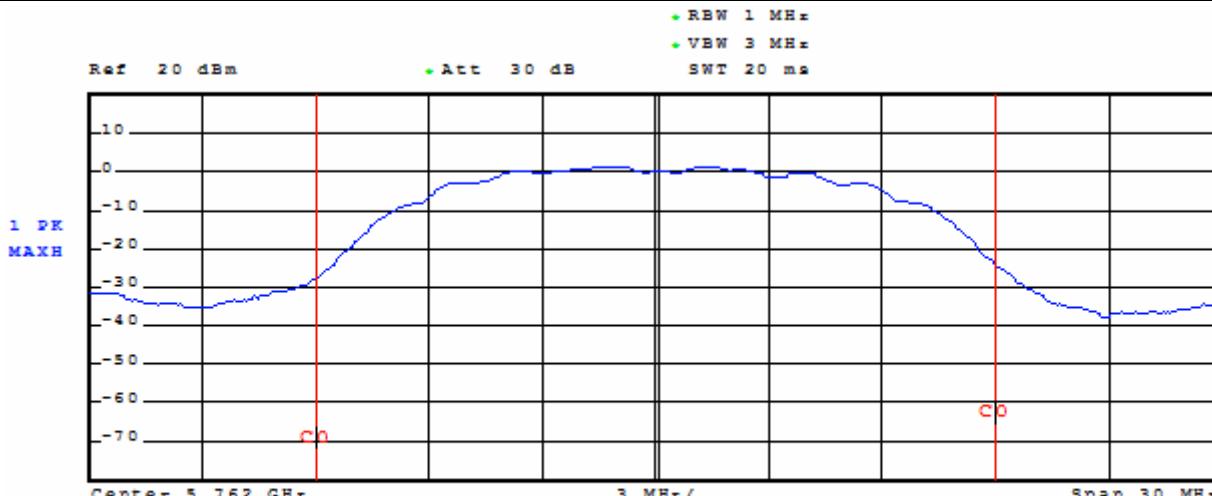


Test mode:	5.8GHz Band Antenna A	Test channel:	Low
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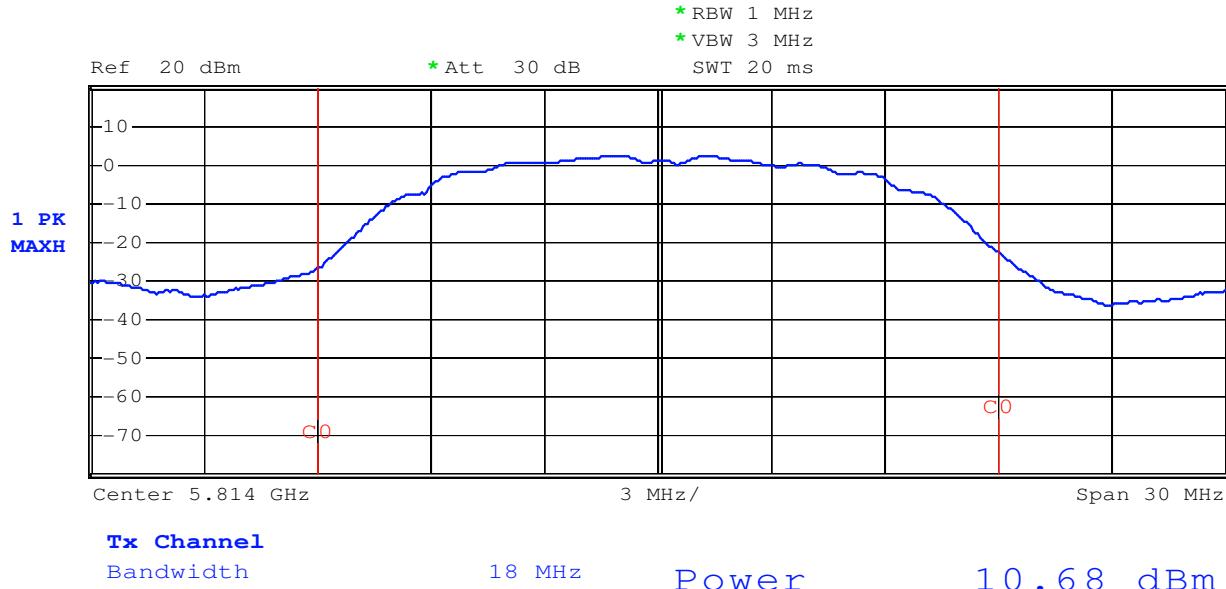
Tx Channel Bandwidth 18 MHz Power 10.40 dBm

Test mode:	5.8GHz Band Antenna A	Test channel:	Middle
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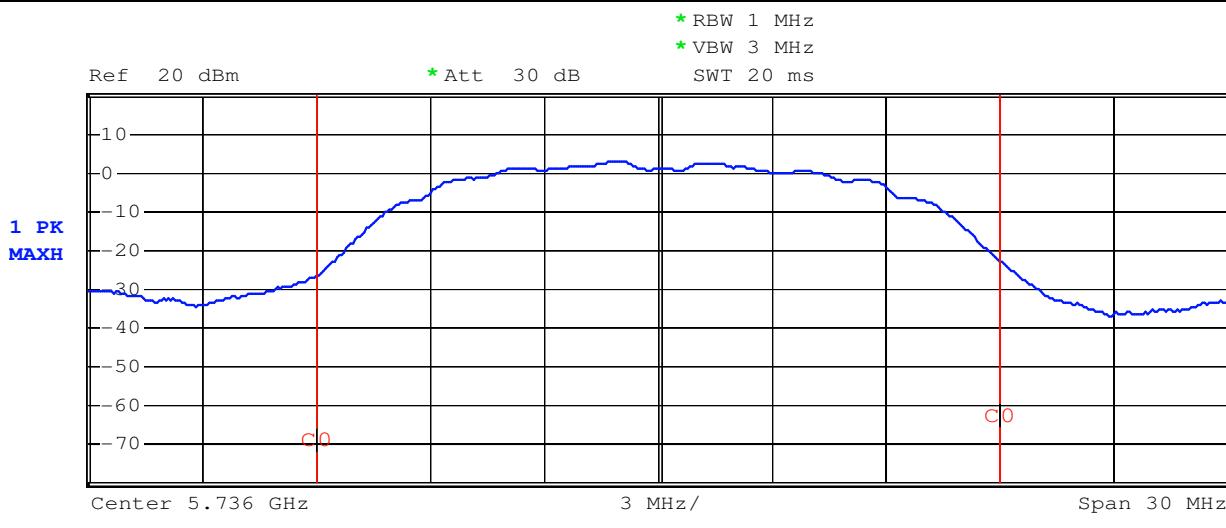


Tx Channel Bandwidth 18 MHz Power 10.69 dBm

Test mode:	5.8GHz Band Antenna A	Test channel:	High
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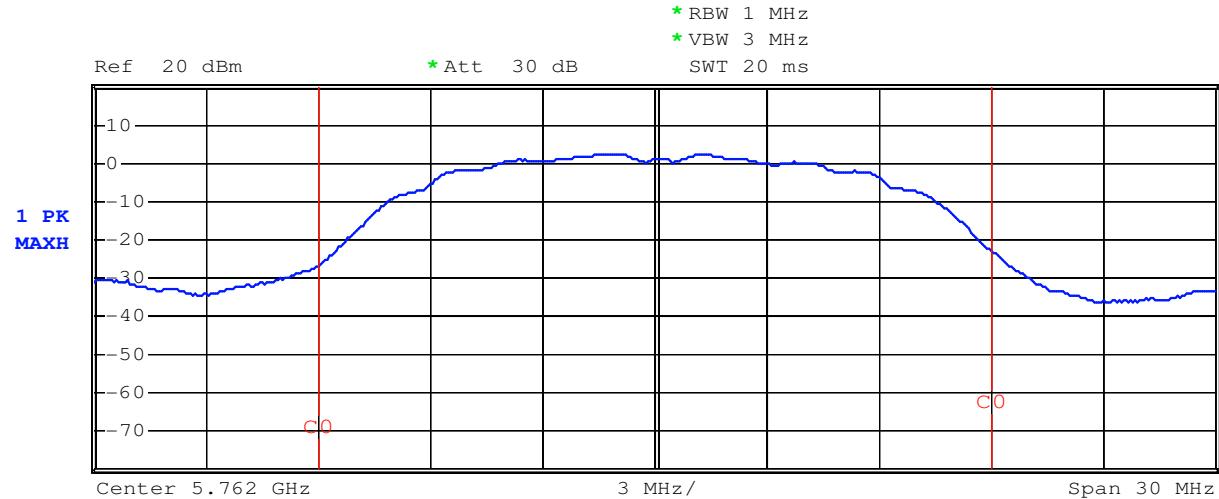


Test mode:	5.8GHz Band Antenna B	Test channel:	Low
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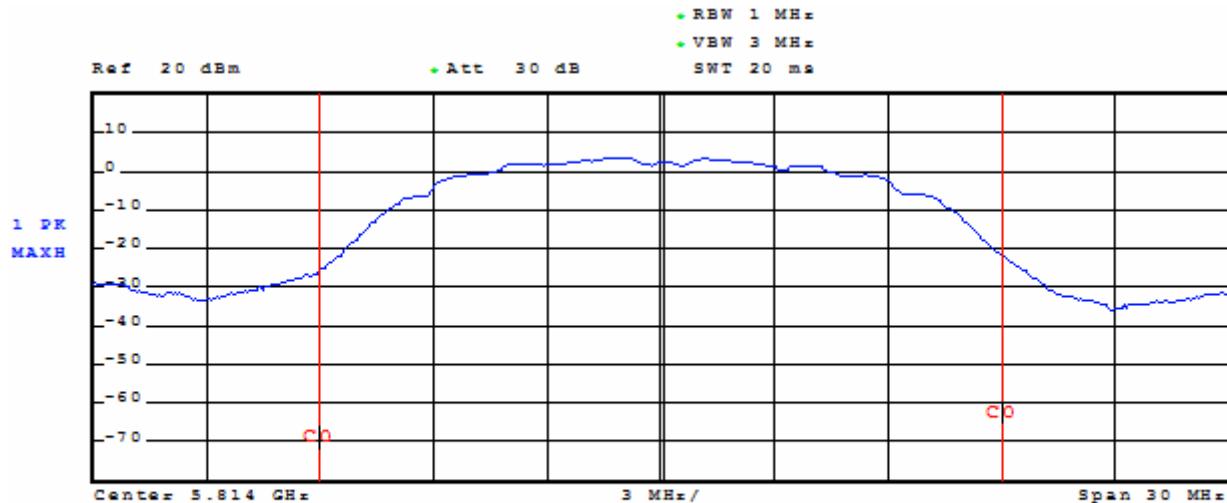
Tx Channel
 Bandwidth 18 MHz Power 10.93 dBm

Test mode:	5.8GHz Band Antenna B	Test channel:	Middle
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Tx Channel
Bandwidth 18 MHz Power 10.70 dBm

Test mode:	5.8GHz Band Antenna B	Test channel:	High
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Tx Channel
Bandwidth 18 MHz Power 10.75 dBm

7.6 Peak Power Spectral Density

Test Requirement: FCC Part15 247(e)

RSS-210 Issue 8 Annex 8

Standard Applicable: According to section 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dB in any 3KHz band during any time in terval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph(b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Measurement Procedure: The EUT was tested according to DTS test procedure of KDB 558074 D01 for compliance to FCC 47CFR 15.247 requirements.

Set RBW=100KHz, Set VBW=300KHz, Span=15MHz, Sweep time=Auto, Set detector=Peak detector.

Pass

Test Result:

Measurement Result:

For Antenna A 2.4GHz Band

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	2412	-2.96	1.5	-1.46	8	PASS
MID	2438	-2.98	1.5	-1.48	8	PASS
HIGH	2464	-3.24	1.5	-1.74	8	PASS

For Antenna B 2.4GHz Band

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	2412	-2.55	1.5	-1.05	8	PASS
MID	2438	-2.57	1.5	-1.07	8	PASS
HIGH	2464	-3.07	1.5	-1.57	8	PASS

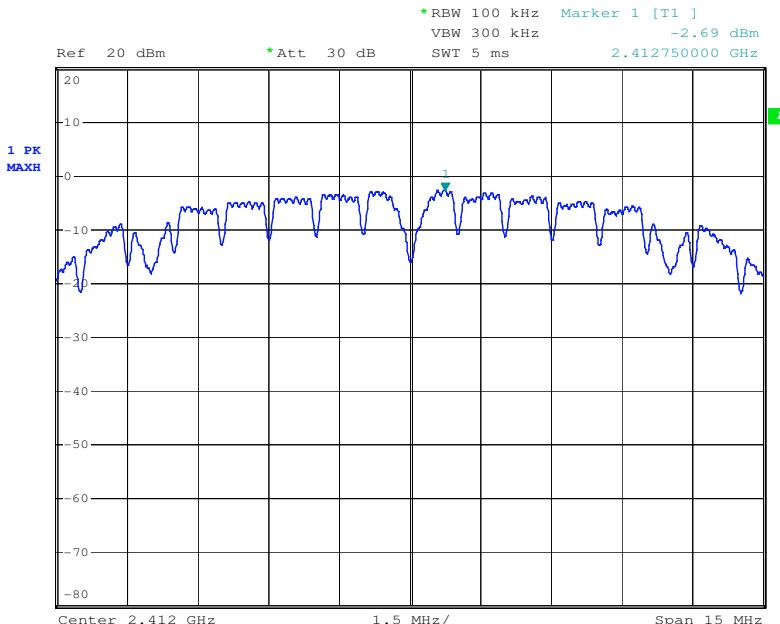
For Antenna A 5.8GHz Band

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	5736	-9.66	1.9	-7.76	8	PASS
MID	5762	-9.48	1.9	-7.58	8	PASS
HIGH	5814	-8.55	1.9	-6.65	8	PASS

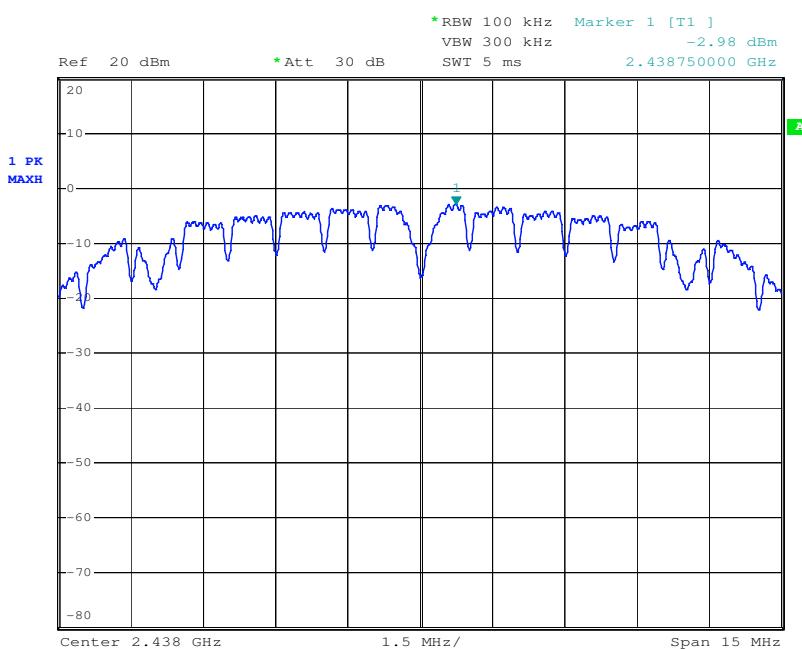
For Antenna B 5.8GHz Band

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	5736	-8.15	1.9	-6.25	8	PASS
MID	5762	-8.14	1.9	-6.24	8	PASS
HIGH	5814	-8.82	1.9	-6.92	8	PASS

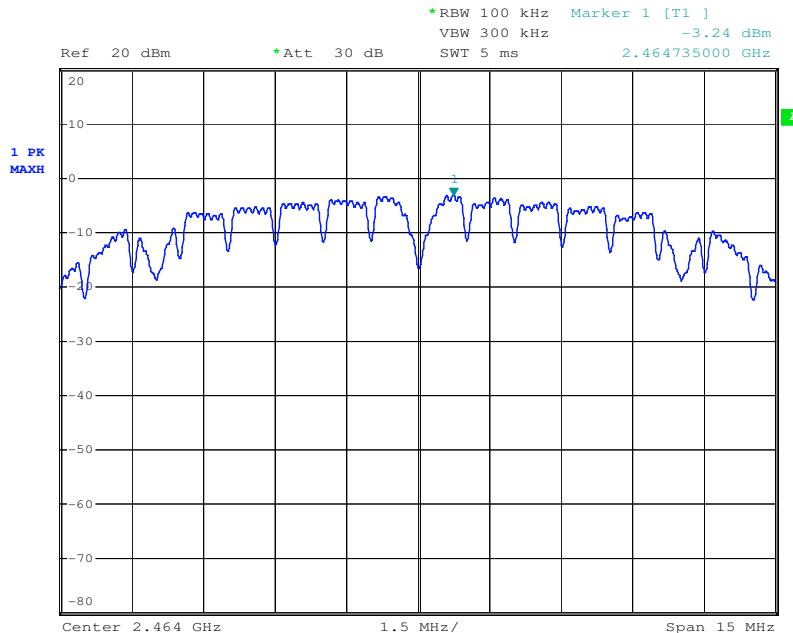
Test mode:	2.4GHz Band Antenna A	Test channel:	Low
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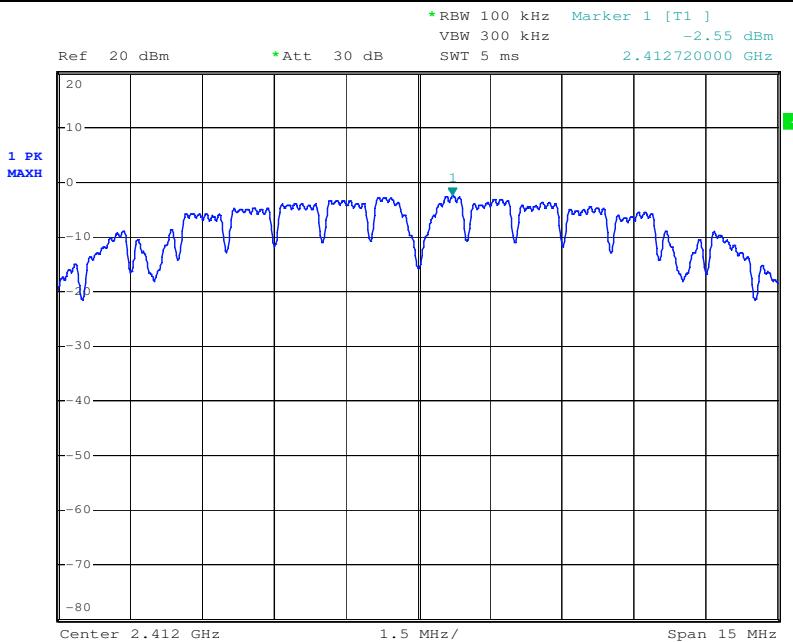
Test mode:	2.4GHz Band Antenna A	Test channel:	Middle
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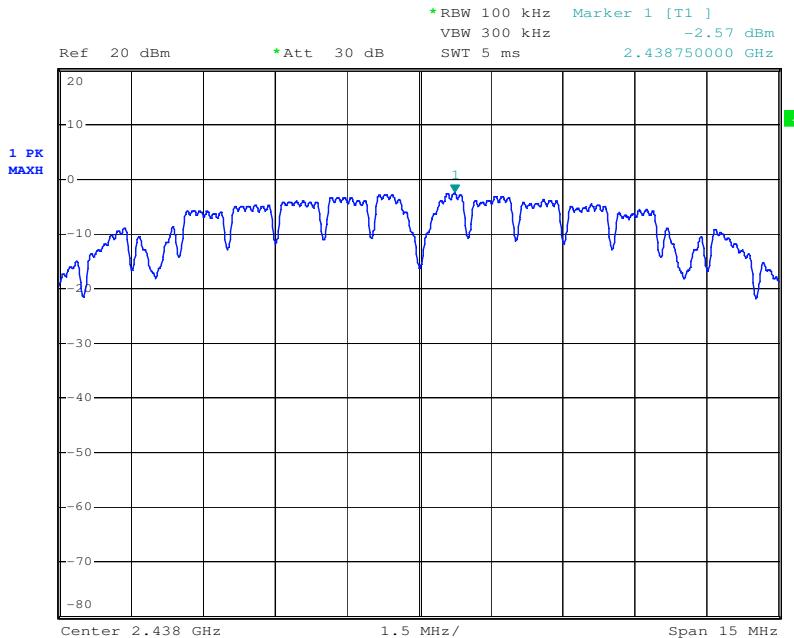
Test mode:	2.4GHz Band Antenna A	Test channel:	High
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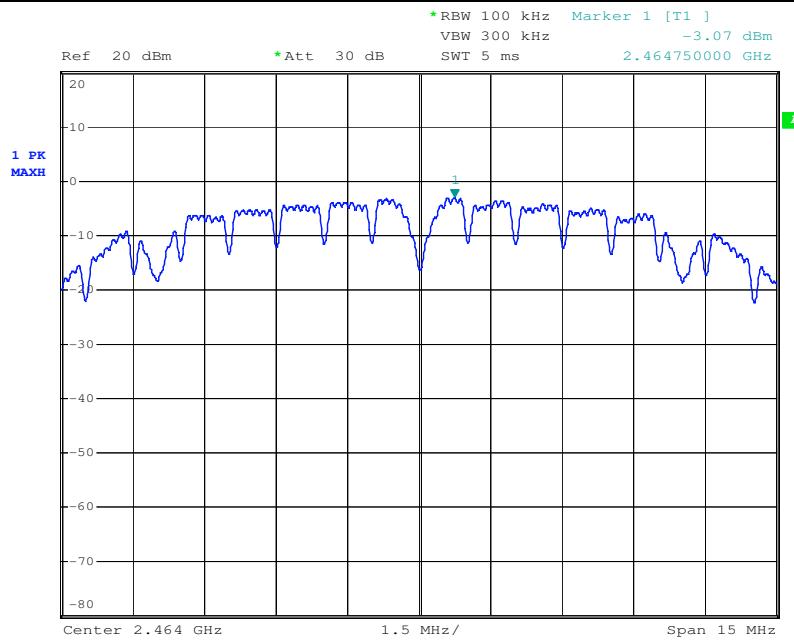
Test mode:	2.4GHz Band Antenna B	Test channel:	Low
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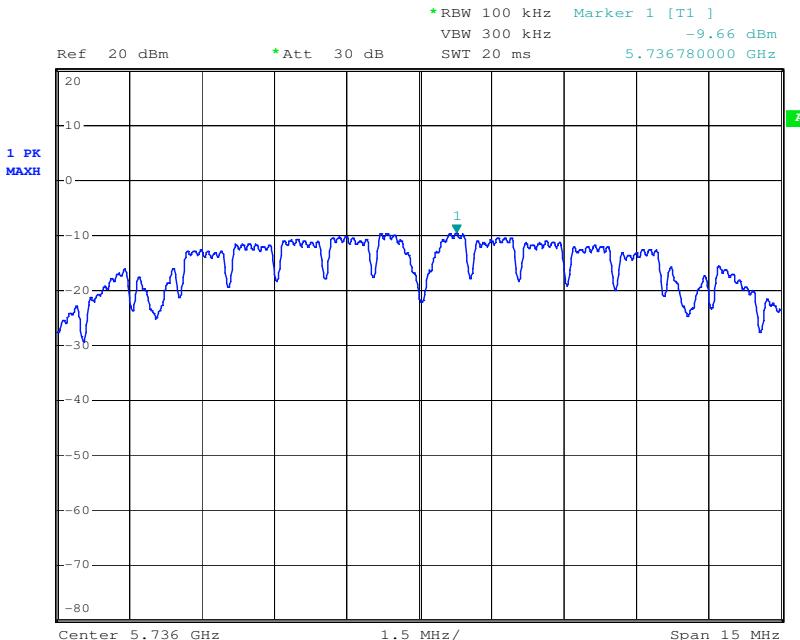
Test mode:	2.4GHz Band Antenna B	Test channel:	Middle
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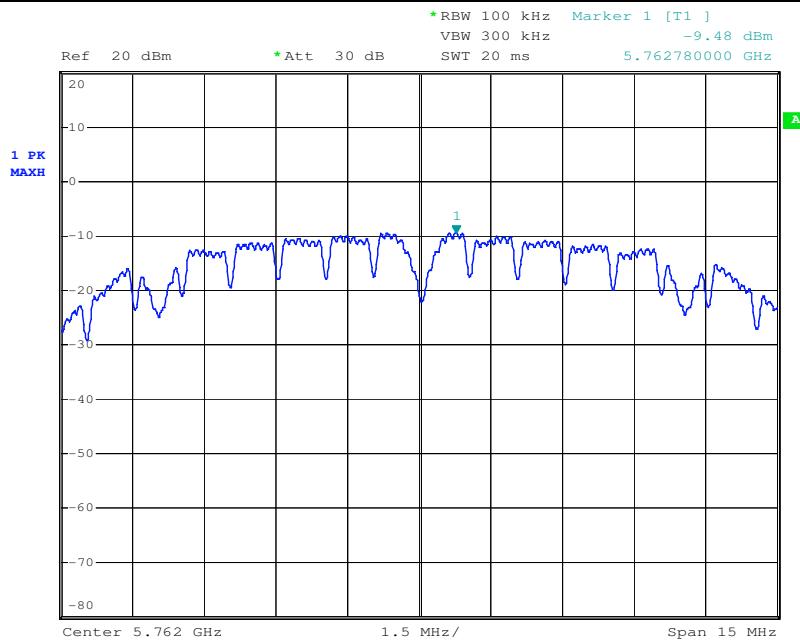
Test mode:	2.4GHz Band Antenna B	Test channel:	High
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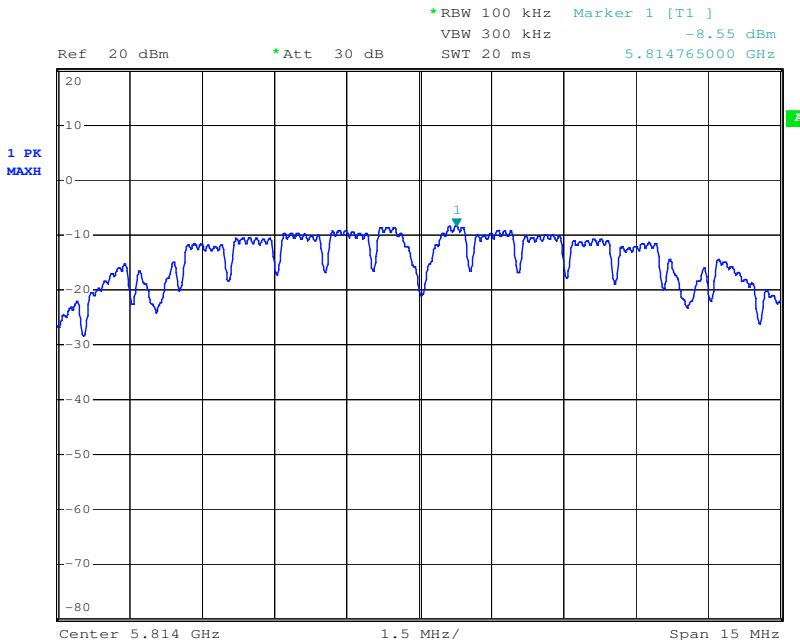
Test mode:	5.8GHz Band Antenna A	Test channel:	Low
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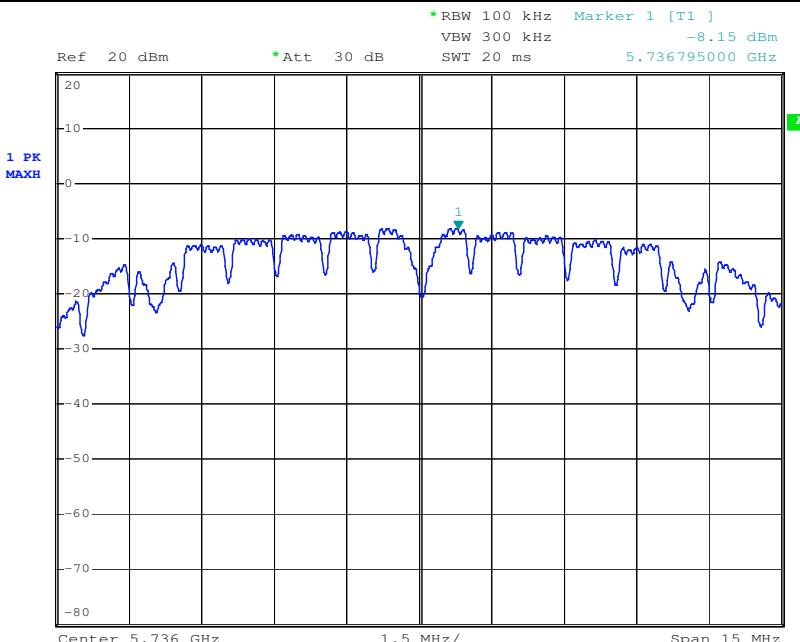
Test mode:	5.8GHz Band Antenna A	Test channel:	Middle
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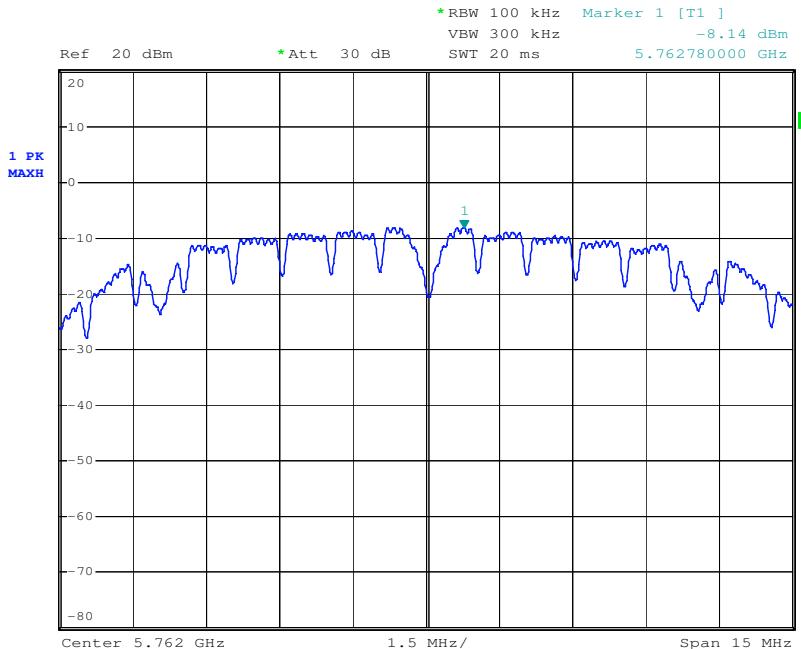
Test mode:	5.8GHz Band Antenna A	Test channel:	High
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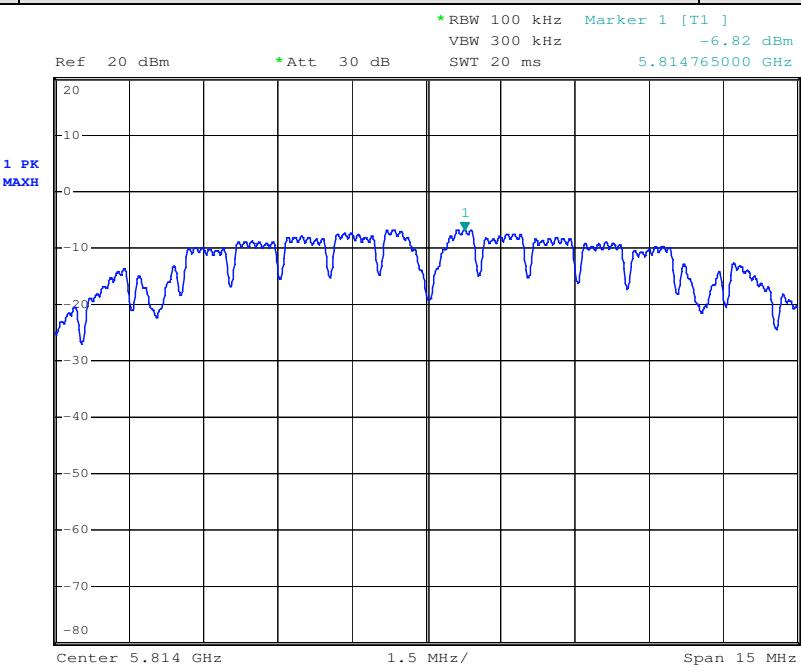
Test mode:	5.8GHz Band Antenna B	Test channel:	Low
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Test mode:	5.8GHz Band Antenna B	Test channel:	Middle
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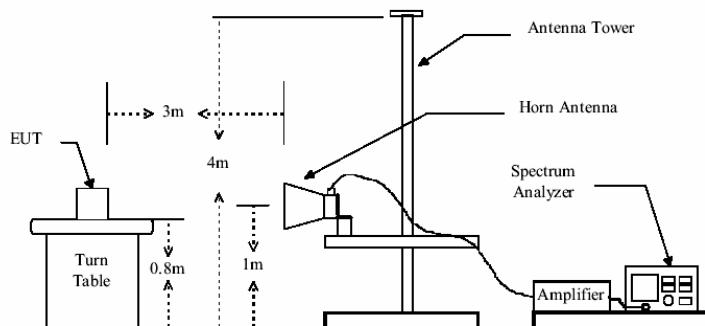
Test mode:	5.8GHz Band Antenna B	Test channel:	High
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7.7 Radiated Emission Band Edge

Test Requirement:	FCC Part15 247(c) RSS-210 Issue 8 Annex 8
Standard Applicable:	According to section 15.247(c),in any 100KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).
Measurement Distance:	3m (Semi-Anechoic Chamber)
Limit:	40.0 dB μ V/m between 30MHz & 88MHz; 43.5 dB μ V/m between 88MHz & 216MHz; 46.0 dB μ V/m between 216MHz & 960MHz; AV 54.0 dB μ V/m PK 74.0 dB μ V/m above 960MHz.
Measurement Procedure:	The EUT was setup according to ANSI 63.10,2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47 CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 m above ground. The turn table is rotated 360 degrees to determine to the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSIC 63.10:2009 on radiated measurement. Spectrum analyzer parameters setting as shown below: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

Radiated Emission Test Set-up Frequency Over 1GHz

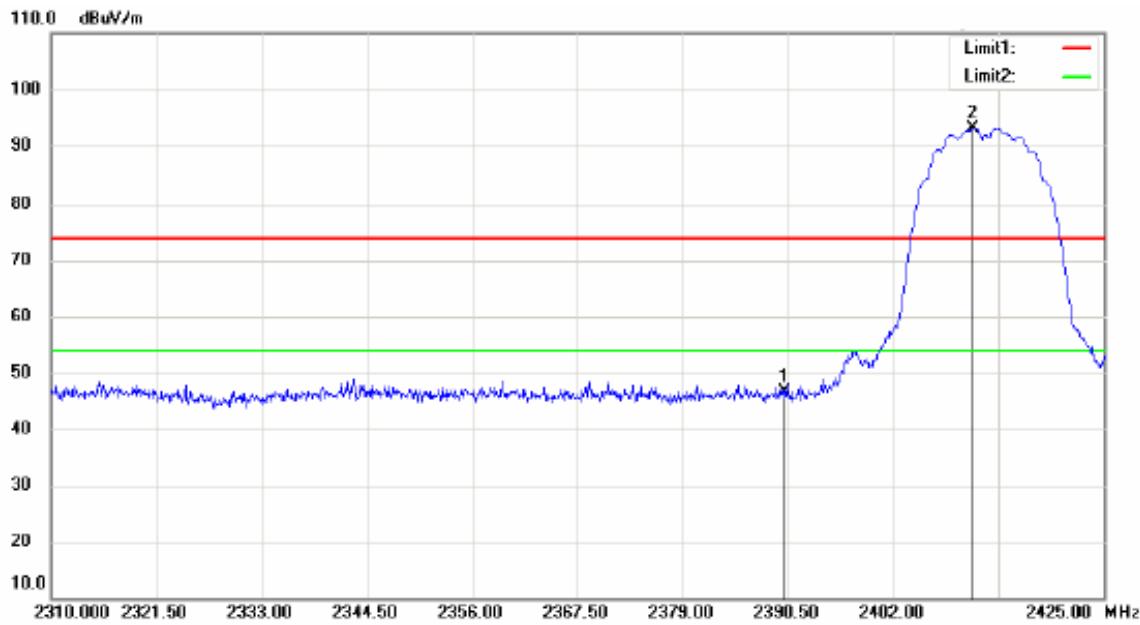


The field strength is calculated by adding the Antenna Factor, Preamplifier Factor & Cable Factor. The basic equation with a sample calculation is as follows:

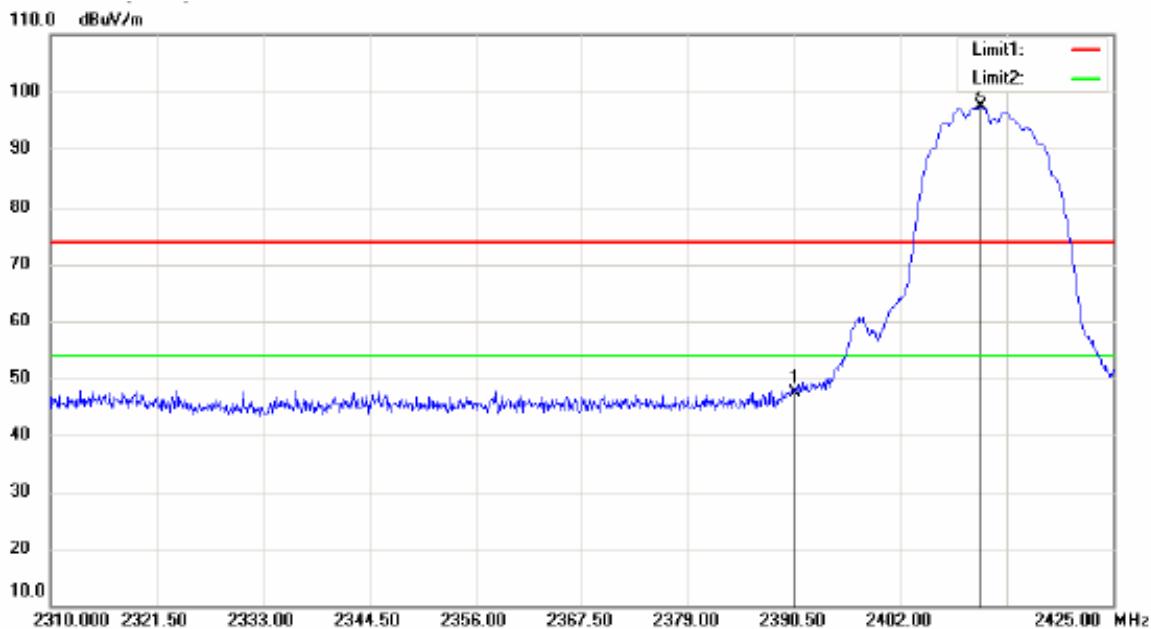
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

Radiated Bandedge Measurement Result:

Test mode:	2.4GHz Band Antenna A	Test channel:	Low
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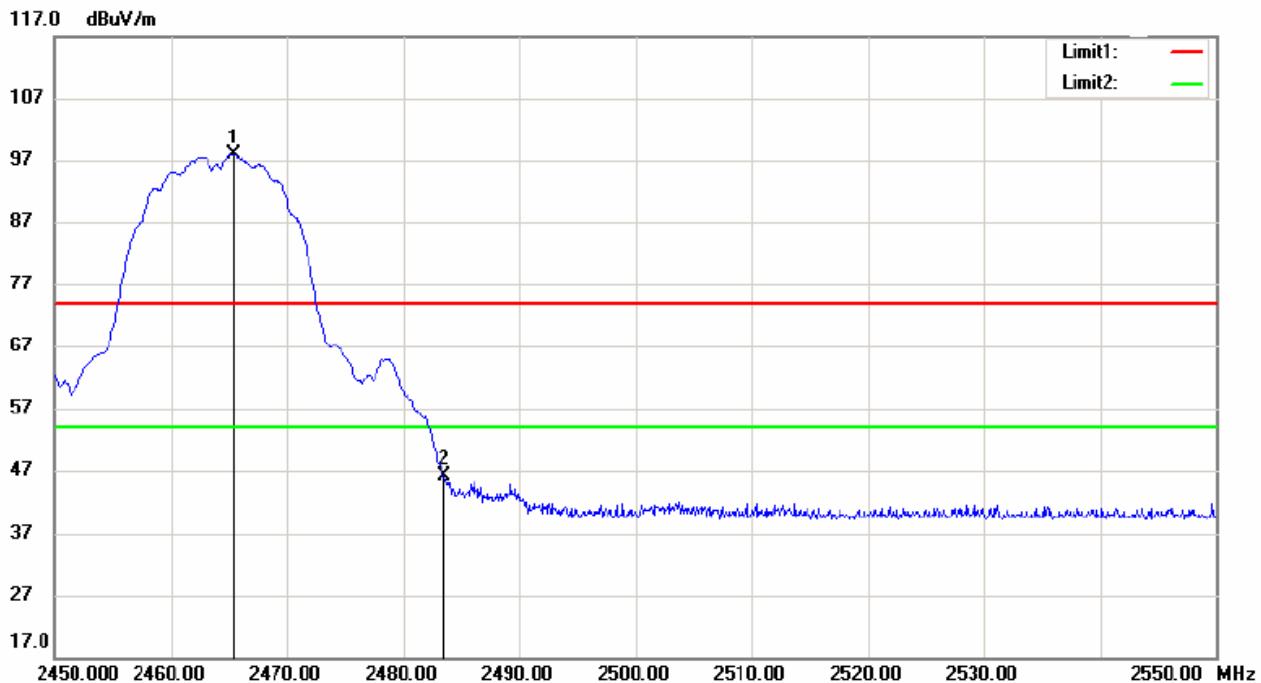
Horizontal, Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.155	41.06	peak	5.46	46.52	54	7.48
2	2410.625	87.77	peak	5.47	93.24	54	-39.24

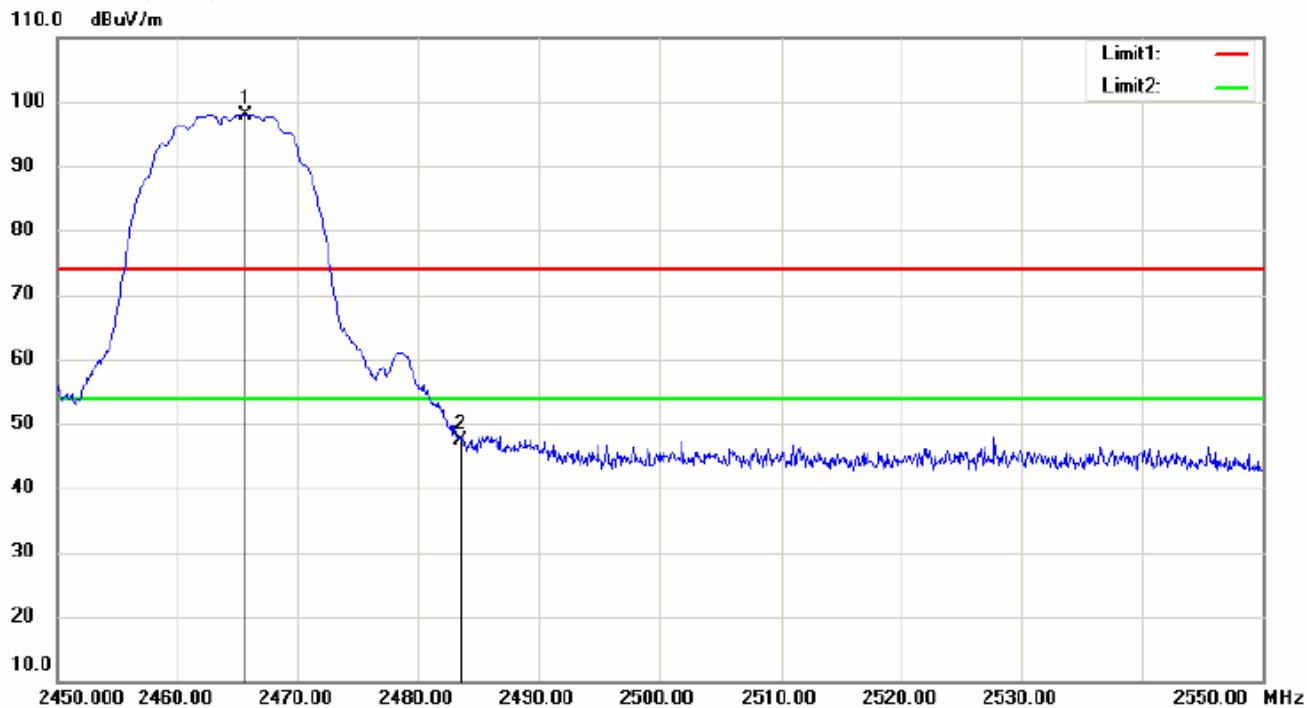
Vertical , Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.615	41.95	peak	5.46	47.41	54	6.59
2	2410.625	91.89	peak	5.47	97.36	54	-43.36

Test mode:	2.4GHz Band Antenna A	Test channel:	High
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Horizontal, Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2465.400	92.41	peak	5.49	97.90	54	-43.90
2	2483.500	40.60	peak	5.50	46.10	54	7.90

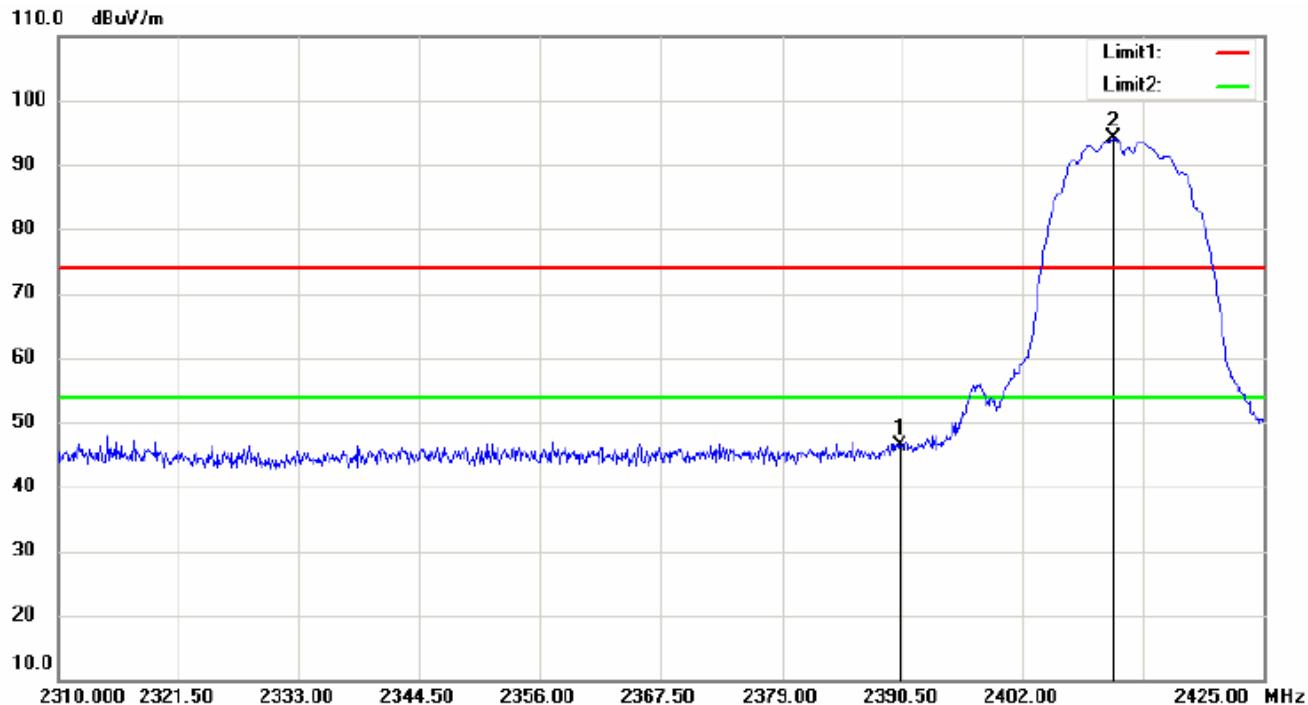
Vertical, Peak Detector:

MK.	Frequency	Reading (dB μ V/m)	Detector	Corrected factor(dB)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1	2465.600	92.47	peak	5.49	97.96	54	-43.96
2	2483.500	41.88	peak	5.50	47.38	54	6.62

Test mode:	2.4GHz Band Antenna B	Test channel:	Low
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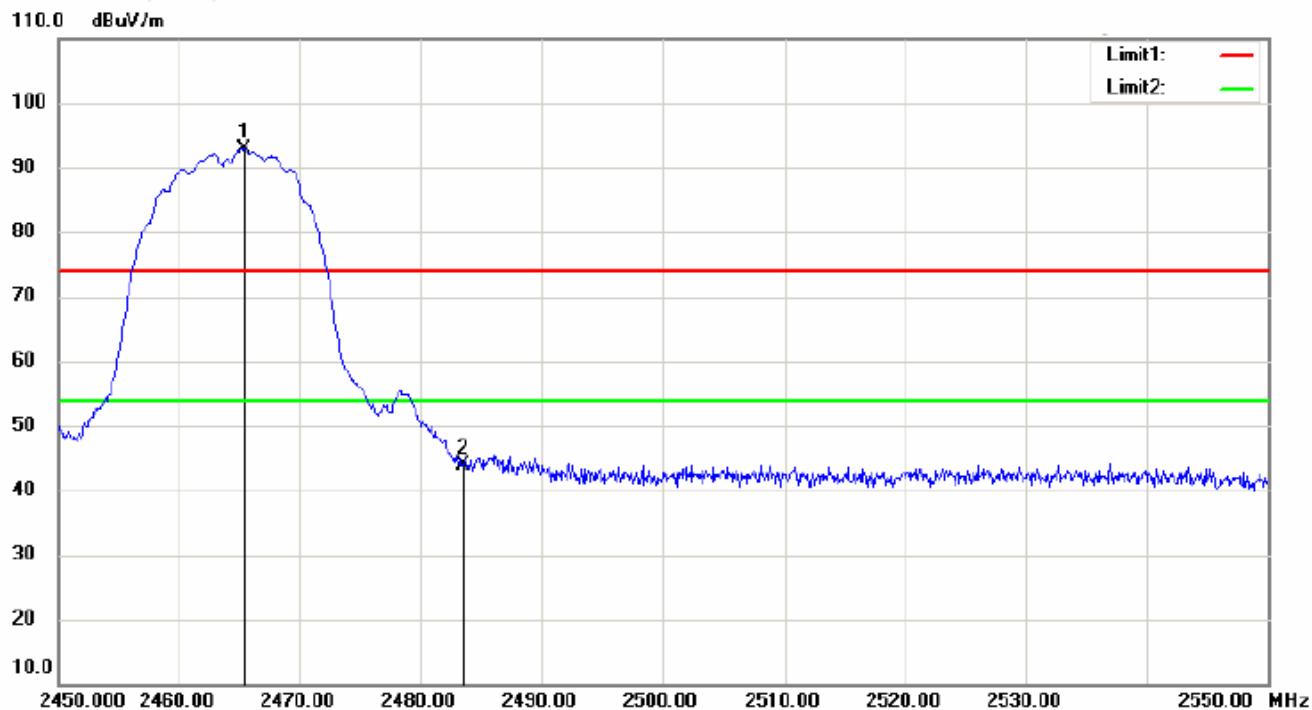
Horizontal, Peak Detector:

MK.	Frequency	Reading (dB _{uV/m})	Detector	Corrected factor(dB)	Result (dB _{uV/m})	Limit (dB _{uV/m})	Margin (dB)
1	2390.155	40.05	peak	5.46	45.51	54	8.49
2	2410.625	88.95	peak	5.47	94.42	54	-40.42

Vertical, Peak Detector:

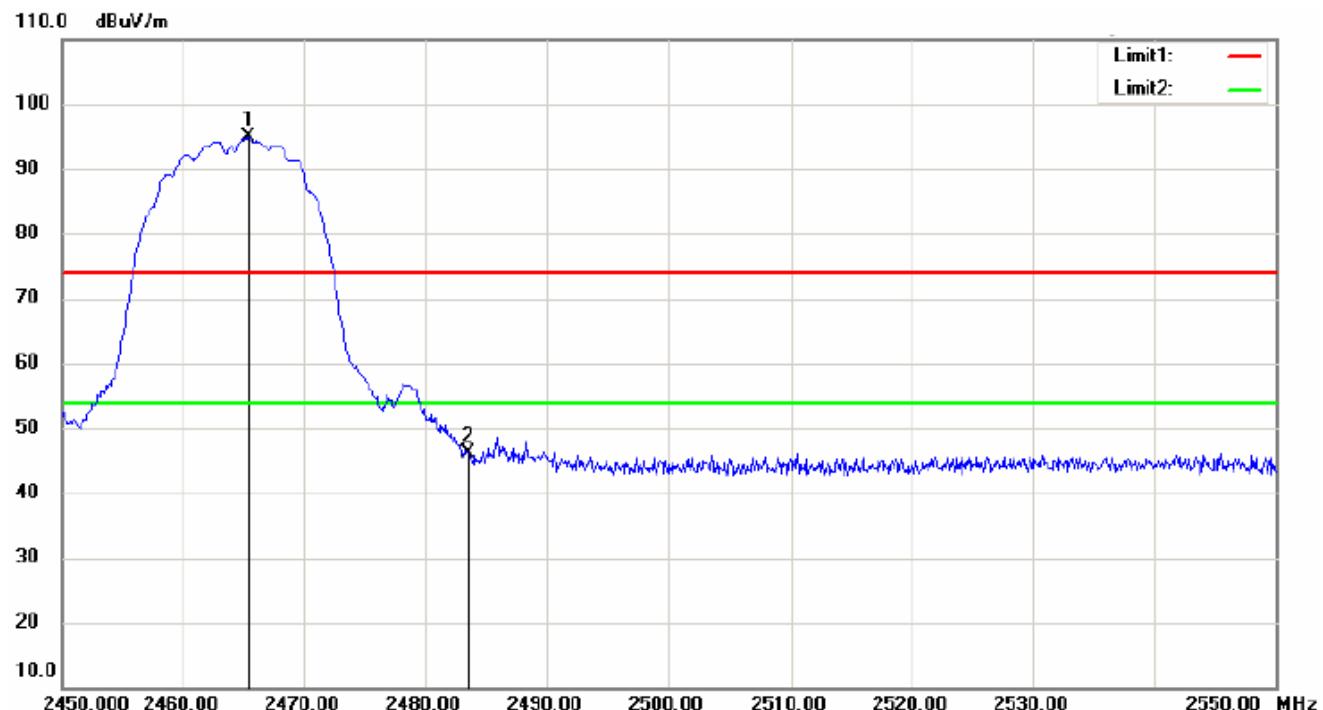
MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2390.270	40.86	peak	5.46	46.32	54	7.68
2	2410.625	88.57	peak	5.47	94.04	54	-40.04

Test mode:	2.4GHz Band Antenna B	Test channel:	Highest
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Horizontal, Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2465.400	87.35	peak	5.49	92.84	54	-38.84
2	2483.500	38.26	peak	5.50	43.76	54	10.24

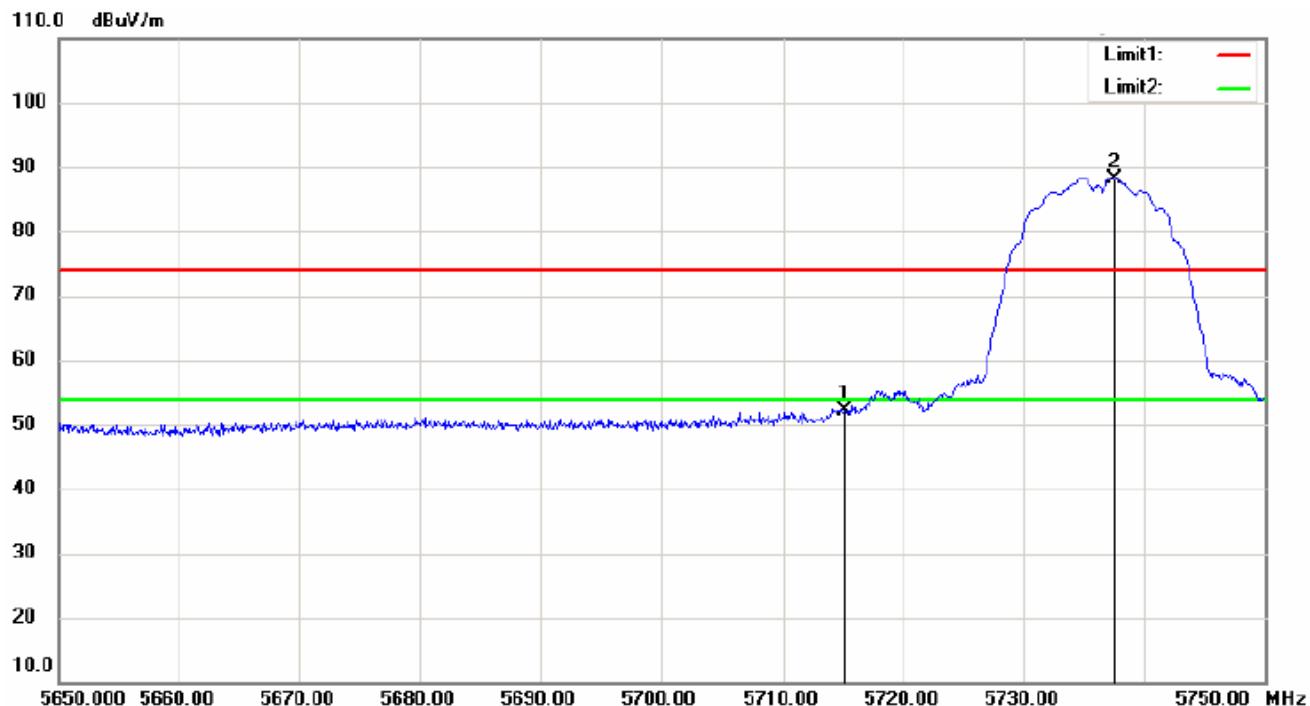
Vertical, Peak Detector:



MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2465.400	89.35	peak	5.49	94.84	54	-40.84
2	2483.500	40.64	peak	5.50	46.14	54	7.86

Test mode: 5.8GHz Band Antenna A Test channel: Low

Horizontal, Peak Detector:

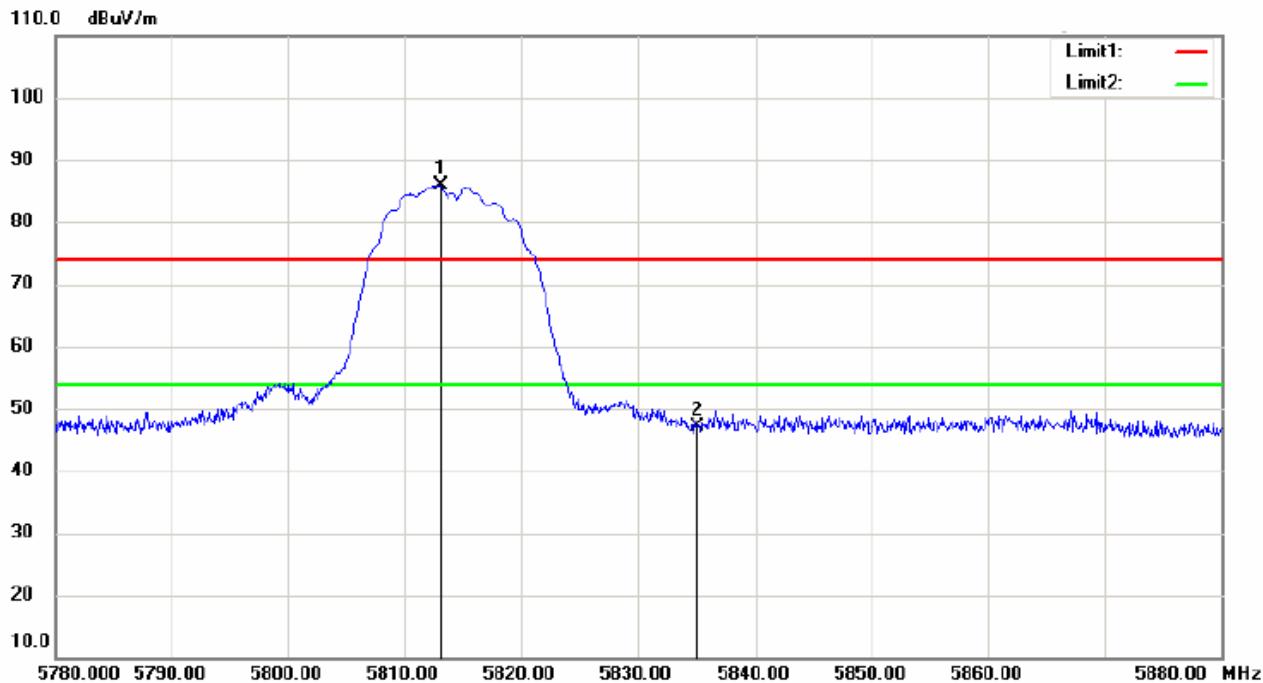


MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5715.100	43.19	peak	9.01	52.20	54	1.80
2	5737.500	79.22	peak	9.03	88.25	54	-34.25

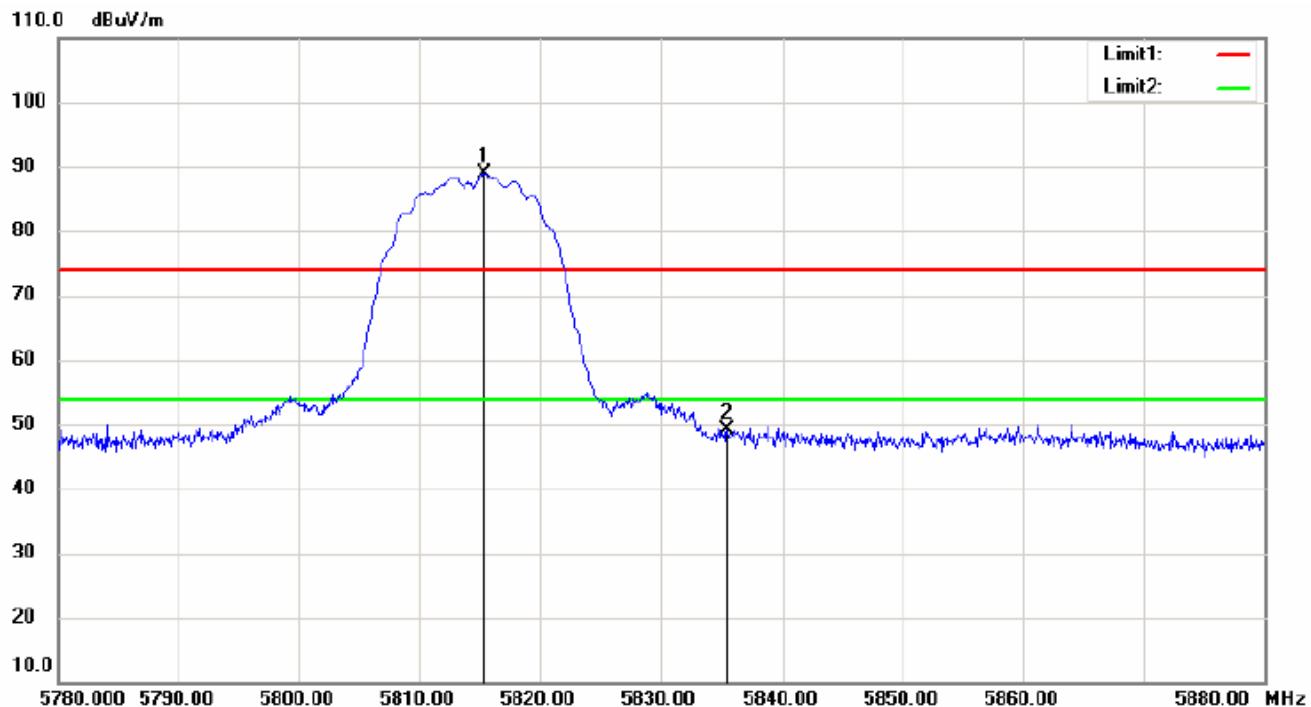
Vertical , Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5714.500	40.67	peak	9.01	49.68	54	4.32
2	5737.300	77.96	peak	9.03	86.99	54	-32.99

Test mode:	5.8GHz Band Antenna A	Test channel:	High
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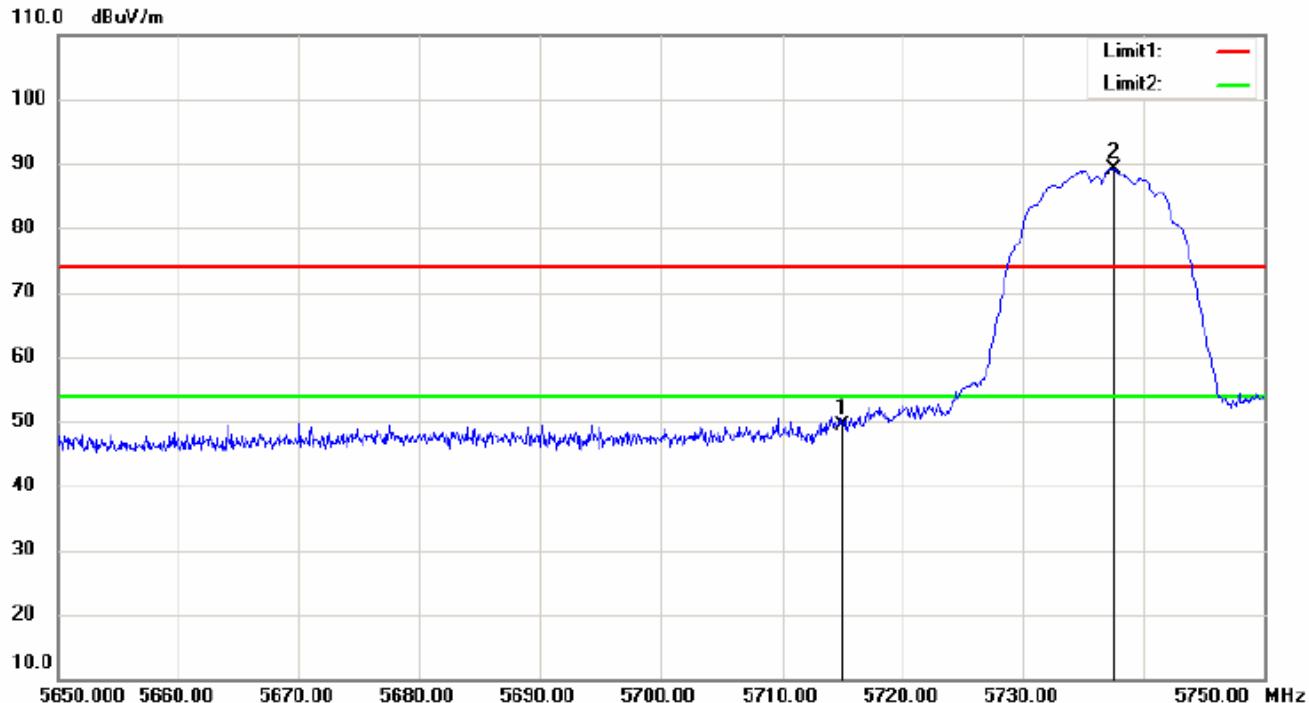
Horizontal, Peak Detector:

MK.	Frequency	Reading (dB _{uV/m})	Detector	Corrected factor(dB)	Result (dB _{uV/m})	Limit (dB _{uV/m})	Margin (dB)
1	5713.100	76.86	peak	9.09	85.95	54	-31.95
2	5735.000	38.10	peak	9.10	47.20	54	6.80

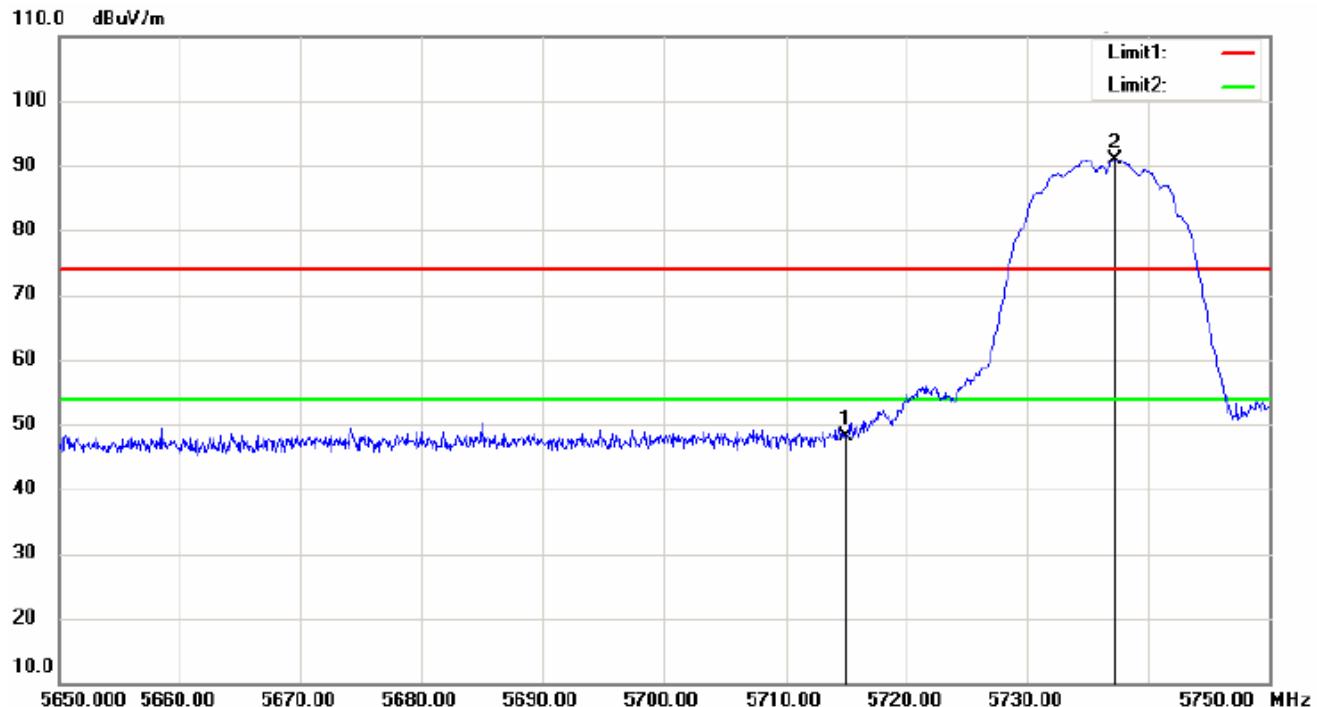
Vertical, Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5815.400	79.74	peak	9.09	88.83	54	-34.83
2	5835.400	39.91	peak	9.10	49.01	54	4.99

Test mode:	5.8GHz Band Antenna B	Test channel:	Low
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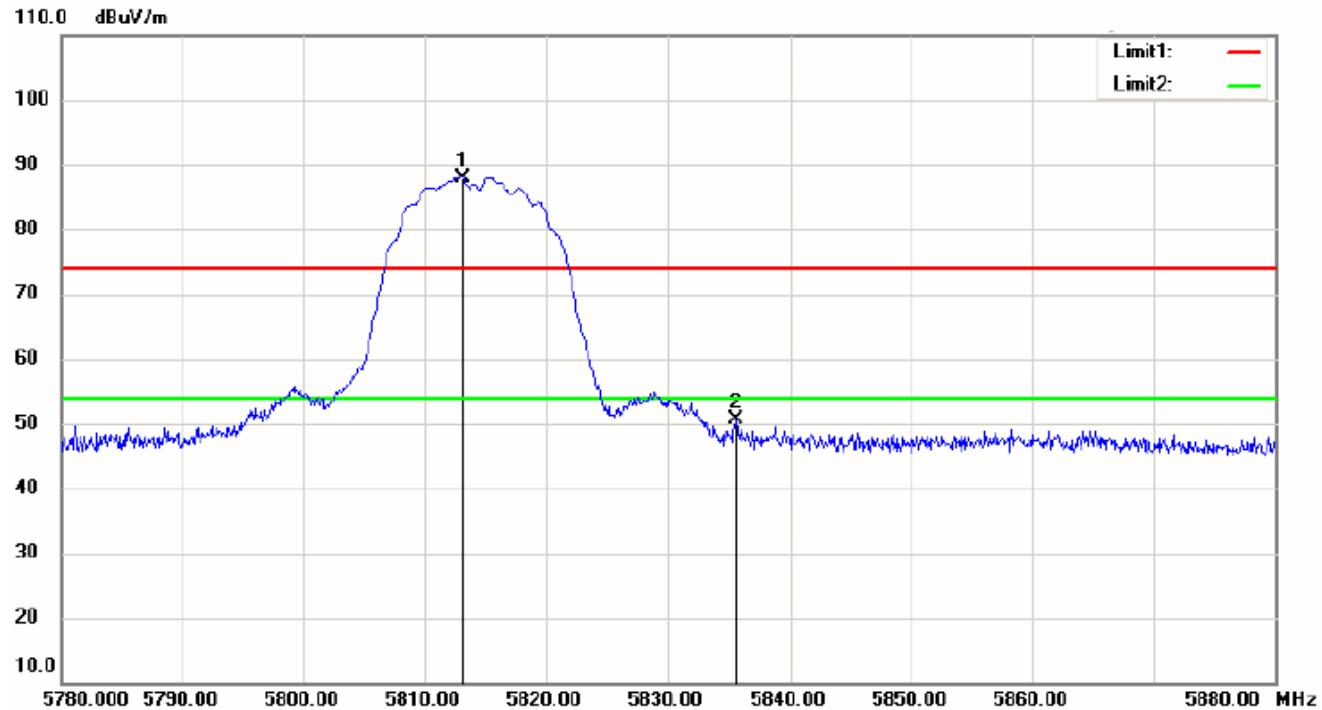
Horizontal, Peak Detector

MK.	Frequency	Reading (dB μ V/m)	Detector	Corrected factor(dB)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1	5715.000	40.29	peak	9.01	49.30	54	4.70
2	5737.500	80.11	peak	9.03	89.14	54	-35.14

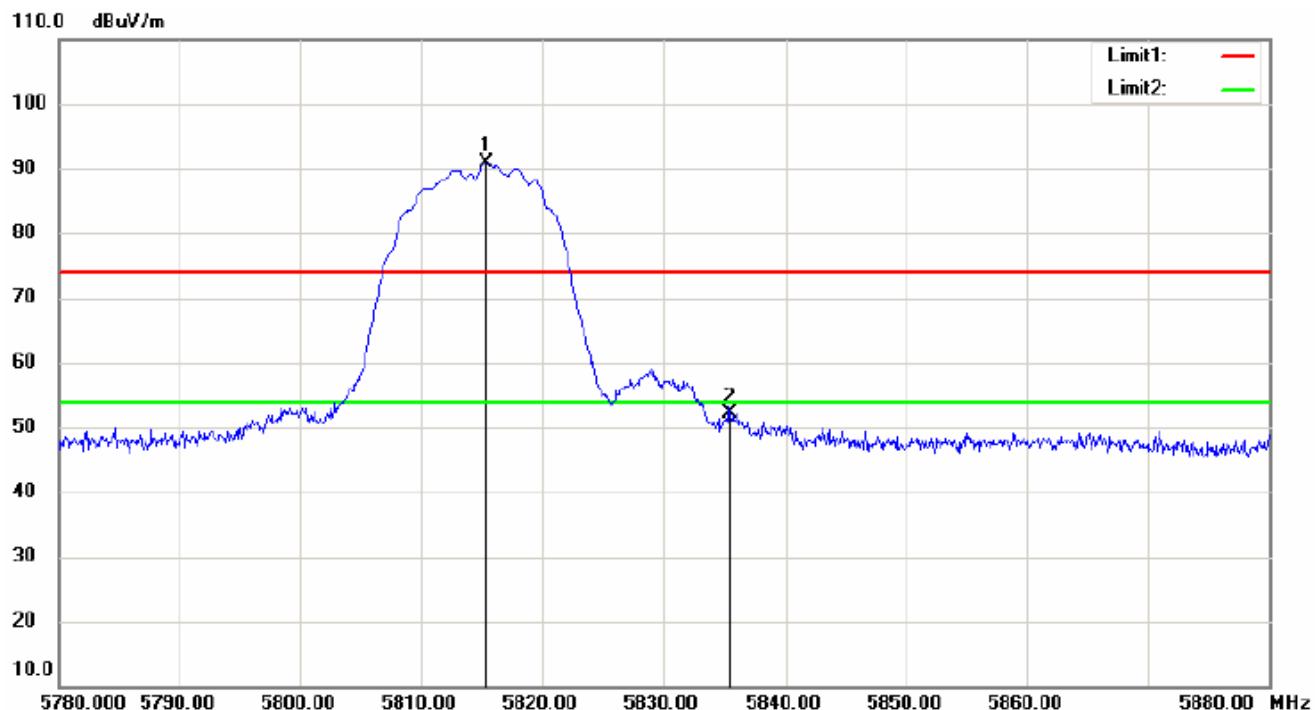
Vertical, Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5715.000	39.09	peak	9.01	48.10	54	5.90
2	5737.200	81.96	peak	9.03	90.99	54	-36.99

Test mode:	5.8GHz Band Antenna B	Test channel:	High
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Horizontal, Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5713.100	78.91	peak	9.09	88.00	54	-34.00
2	5835.500	41.42	peak	9.03	50.52	54	3.48

Vertical, Peak Detector:

MK.	Frequency	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5815.400	81.68	peak	9.09	90.77	54	-36.77
2	5835.400	43.01	peak	9.10	52.11	54	1.89

Remark: No any other emission which fall in restricted bands can be detected and be reported.

Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

All frequencies within the "Restricted bands" have been evaluated to compliance. Section 15.205 Restricted bands of operation.

7.8 Conducted Spurious Emission Test

Test Requirement: FCC Part15 247(c)

RSS-210 Issue 8 Annex 8

Standard Applicable:

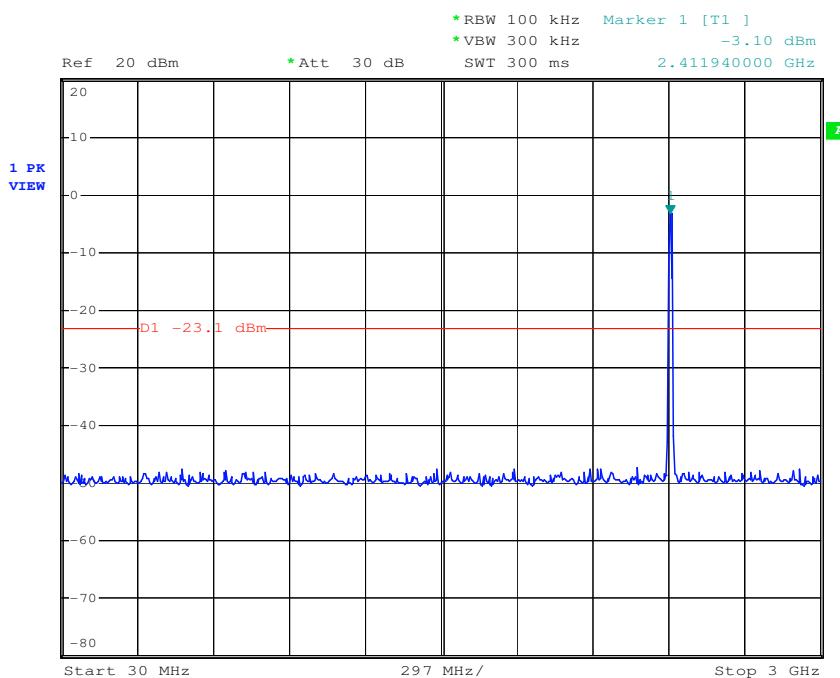
According to section 15.247(c),in any 100KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

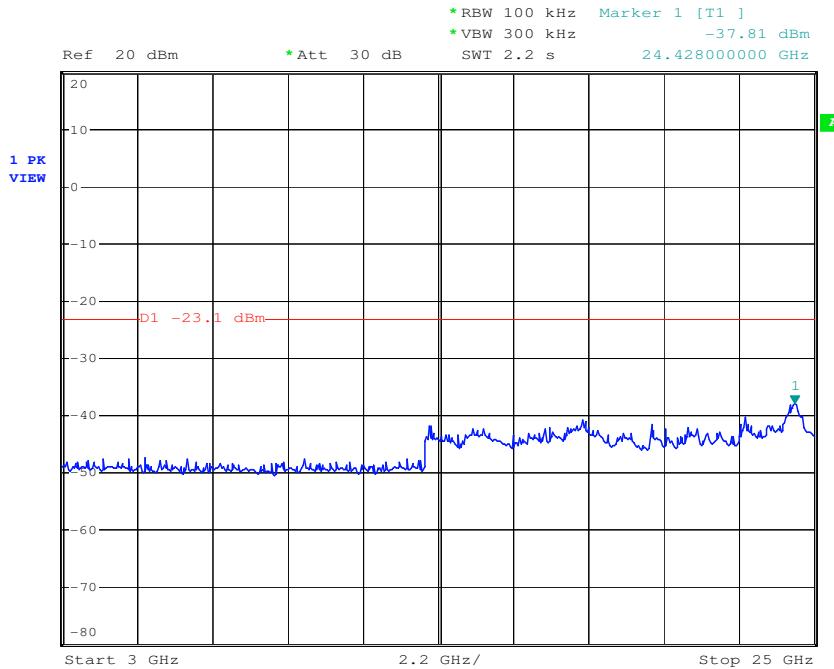
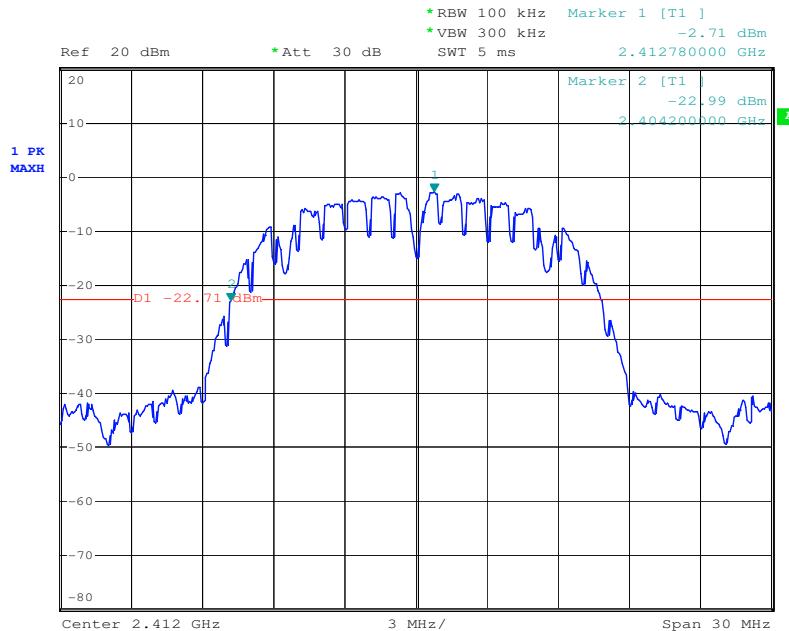
Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW=100KHz VBW=300KHz, Sweep = auto
6. Repeat above procedures until all frequency measured were complete.

The worst test result:

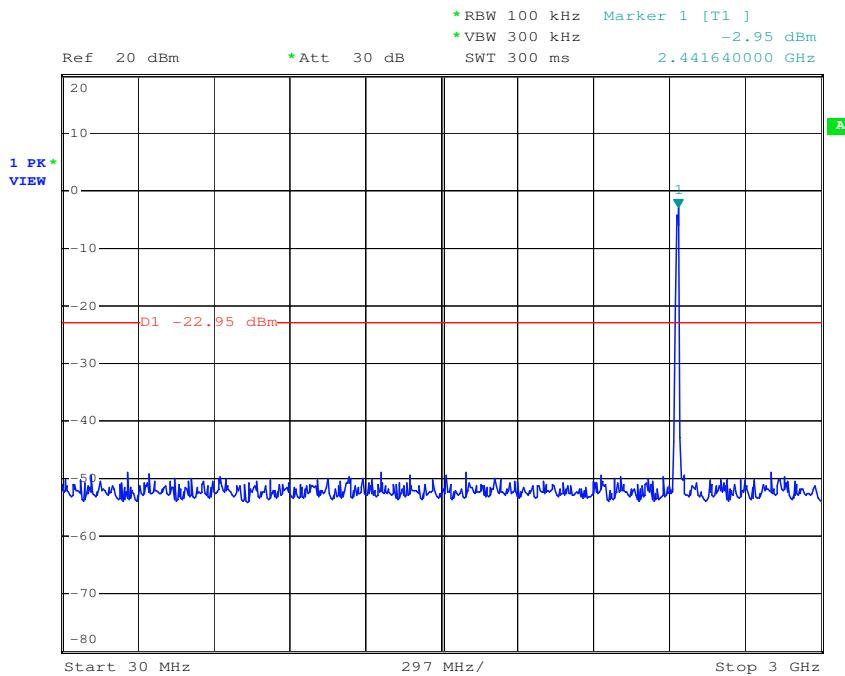
Test mode:	2.4GHz Band Antenna B	Test channel:	Low
30MHz-3GHz			



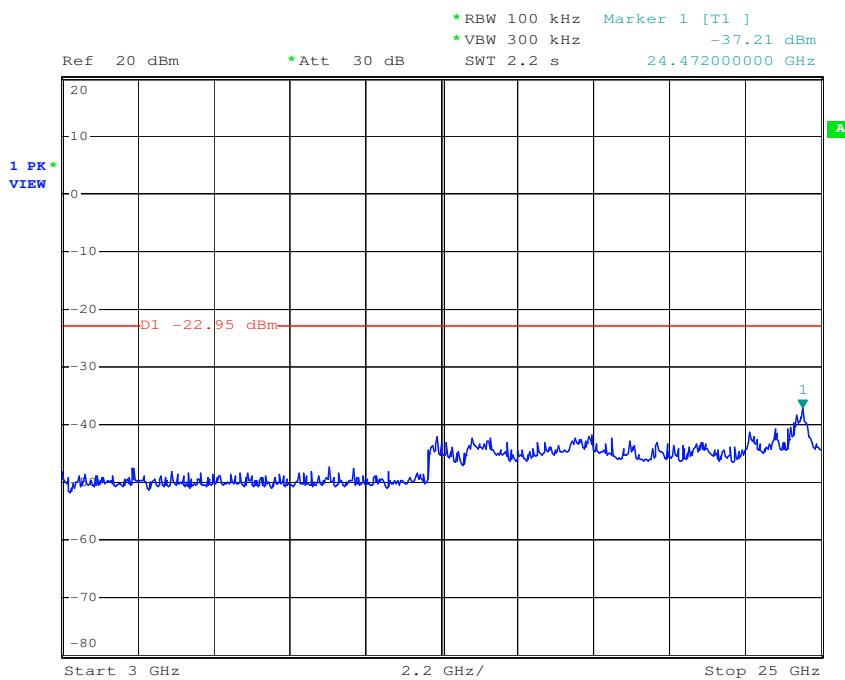
3GHz-25GHz

Band Edge


Test mode:	2.4GHz Band Antenna B	Test channel:	Middle
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30MHz-3GHz

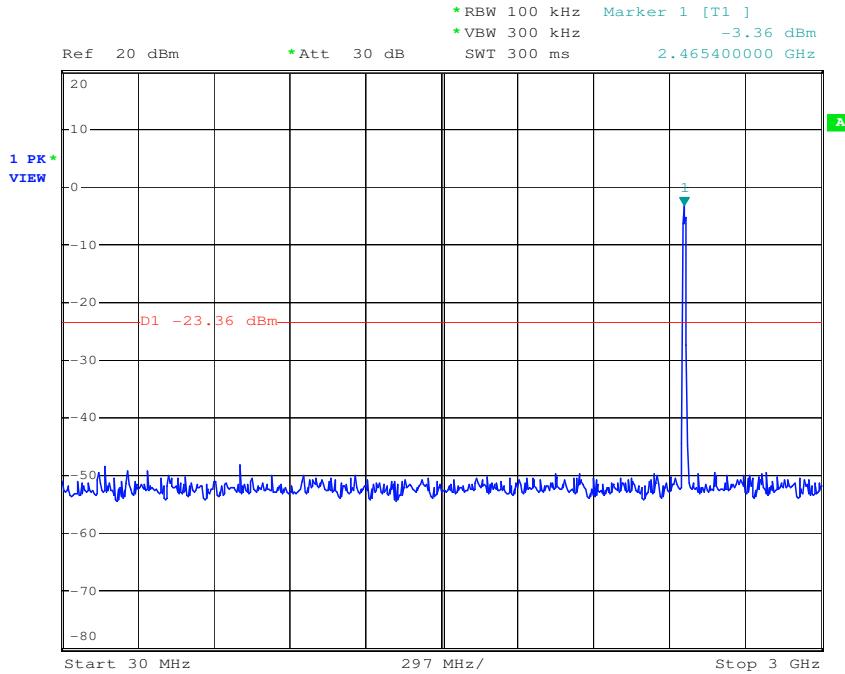


3GHz-25GHz

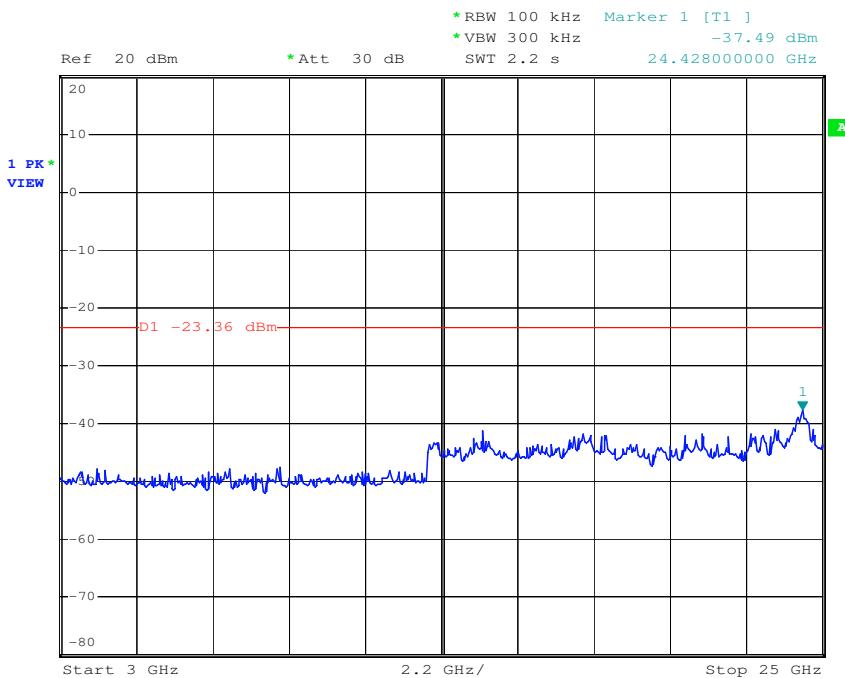


Test mode:	2.4GHz Band Antenna B	Test channel:	High
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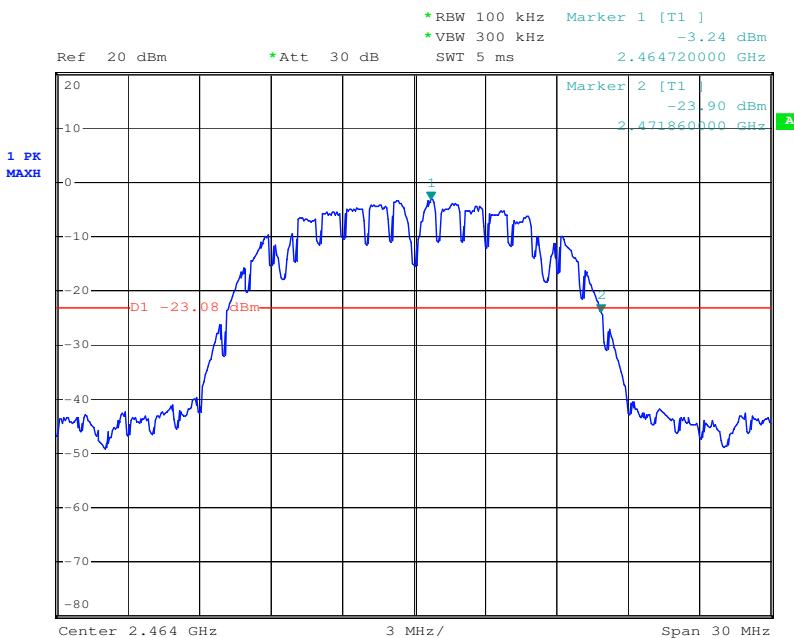
30MHz-3GHz



3GHz-25GHz

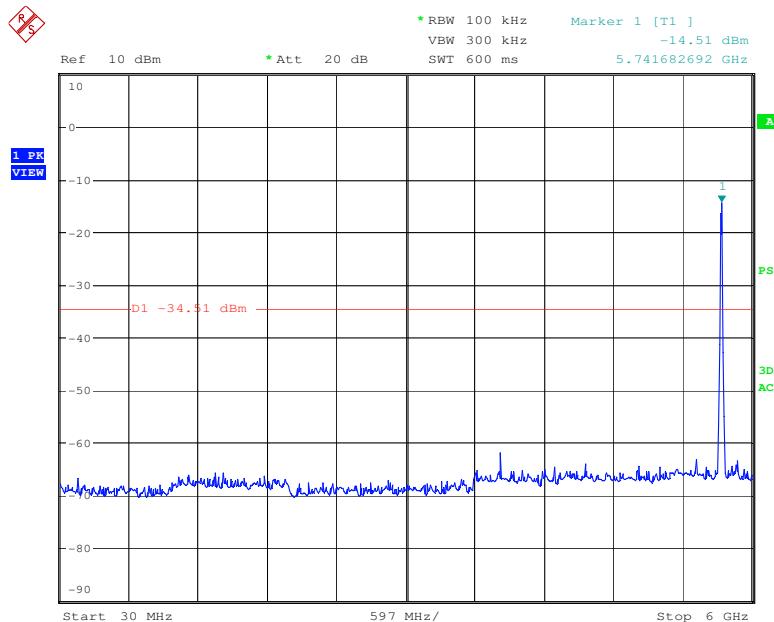


Band Edge

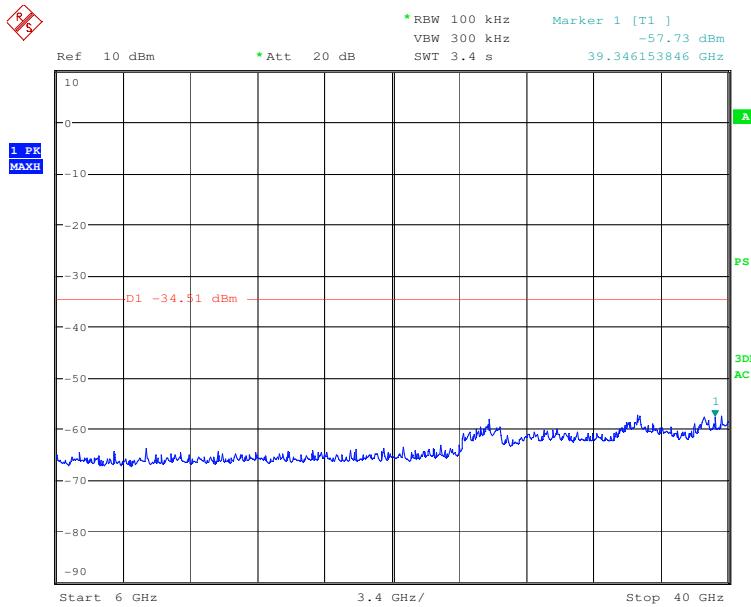


Test mode:	5.8GHz Band Antenna A	Test channel:	Low
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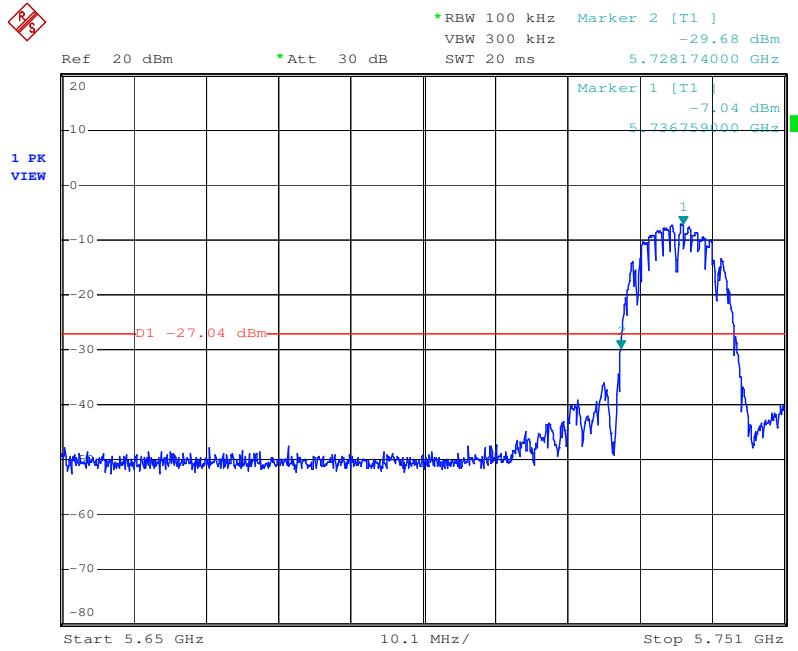
30MHz-6GHz



6GHz-40GHz

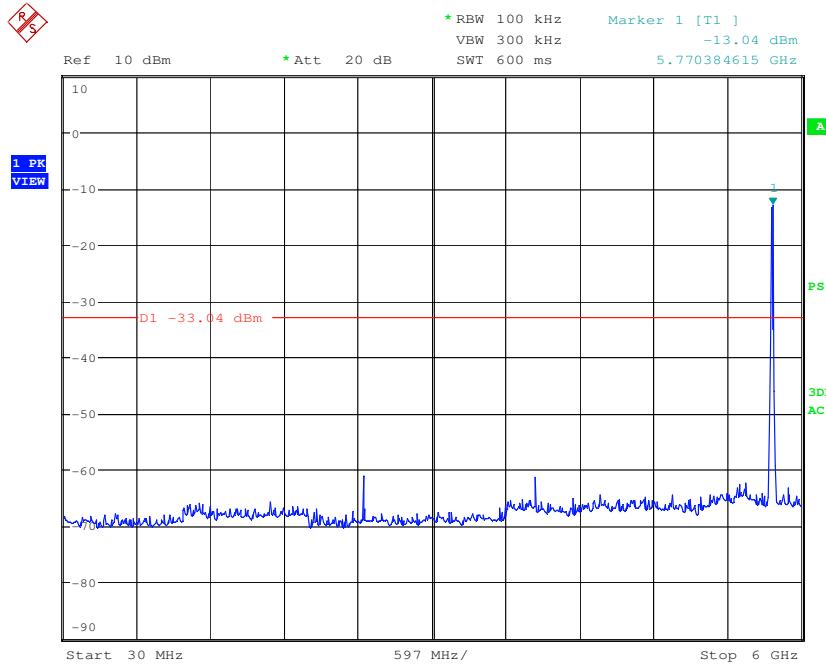


Band Edge

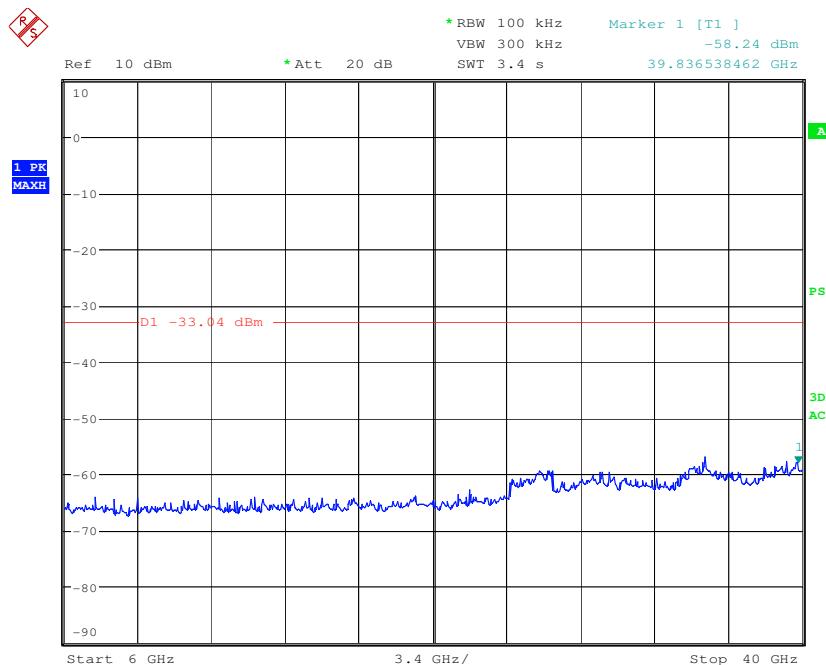


Test mode:	5.8GHz Band Antenna A	Test channel:	Middle
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30MHz-6GHz

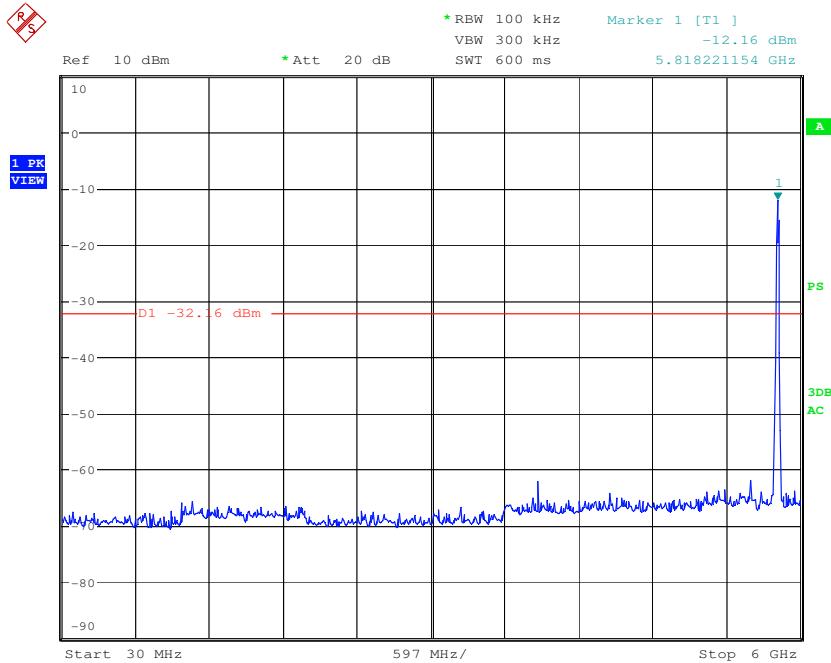


6GHz-40GHz

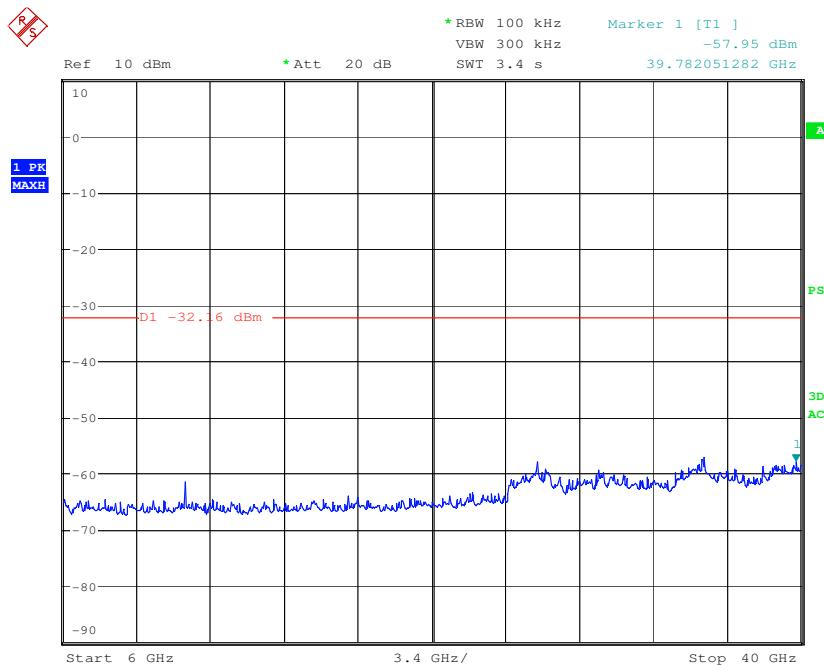


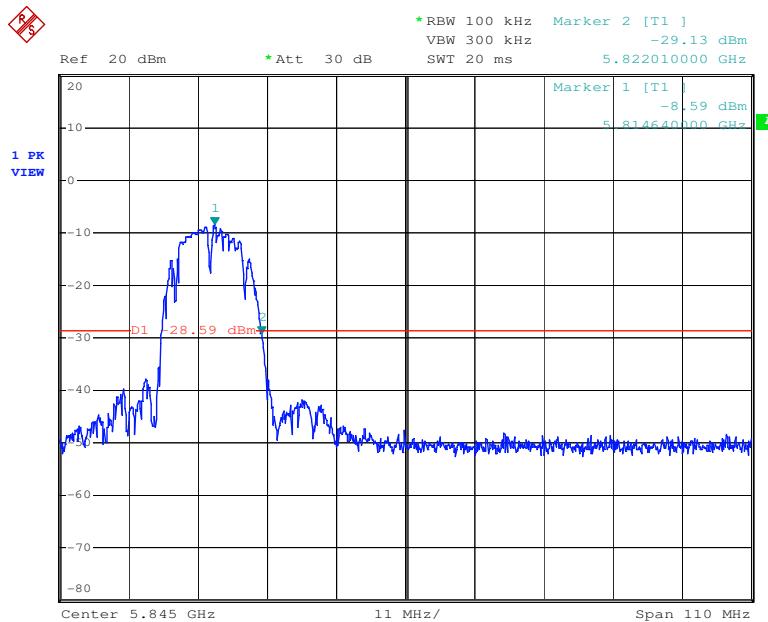
Test mode:	5.8GHz Band Antenna A	Test channel:	High
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30MHz-6GHz



6GHz-40GHz



Band Edge

7.9 Occupied Bandwidth Test

Test Requirement:	RSS-Gen Issue 3 Clause 4.6.1
Standard Applicable	According to the section RSS-Gen Issue 3 Clause 4.6.1
EUT Setup	The occupied bandwidth per RSS-Gen Issue 3 Clause 4.6.1 was measured using the Spectrum Analyzer with the resolutions set at 100kHz, the video bandwidth set at 300kHz.

Measurement Result:

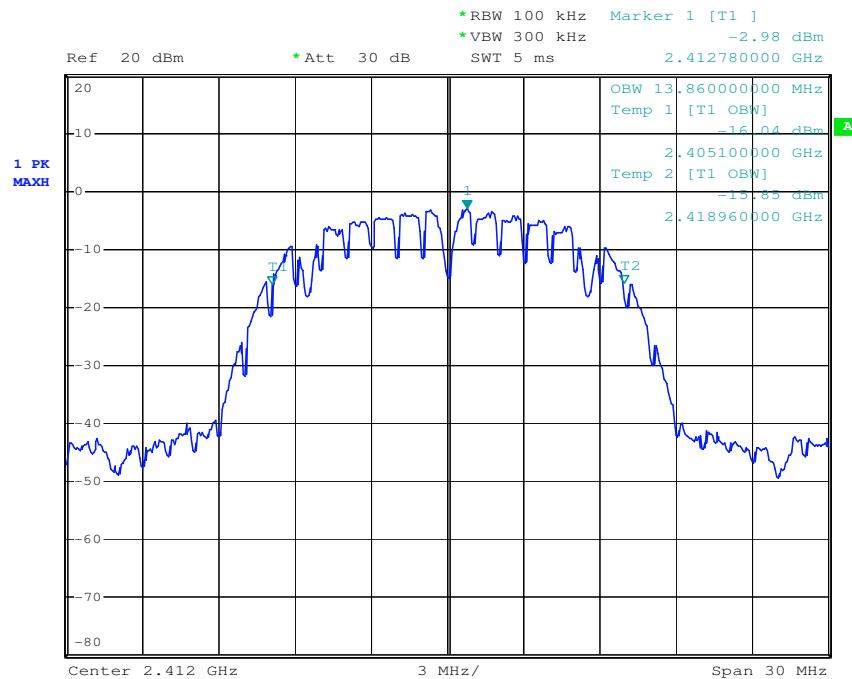
For 2412-2464MHz Band

Test Antenna	Channel	Frequency (MHz)	Bandwidth (MHz)
Antenna A	Low	2412	13.86
	Middle	2438	13.80
	High	2464	13.86
Antenna B	Low	2412	13.86
	Middle	2438	13.80
	High	2464	13.86

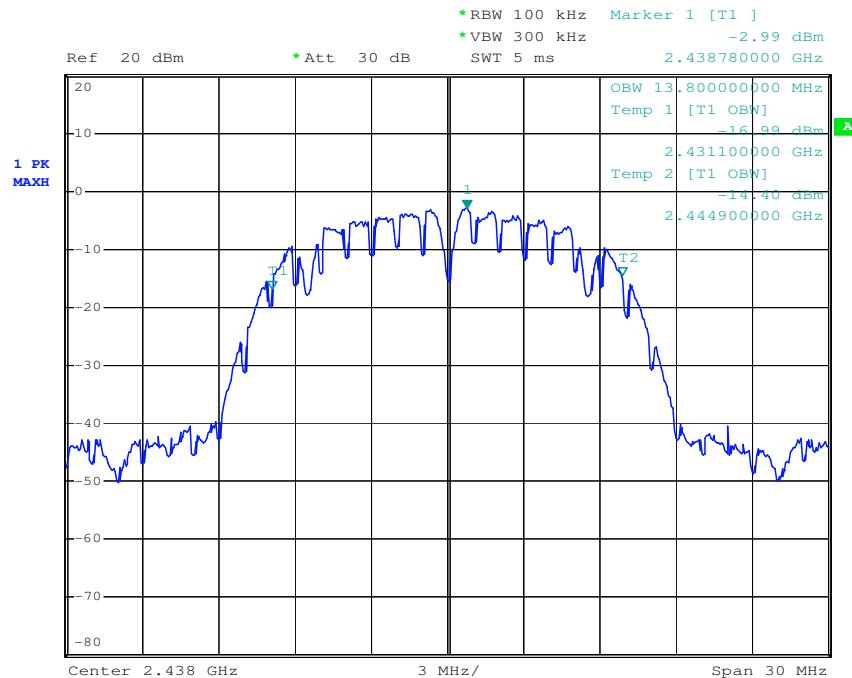
For 5736-5814MHz Band

Test Antenna	Channel	Frequency (MHz)	Bandwidth (MHz)
Antenna A	Low	5736	14.04
	Middle	5762	14.04
	High	2814	14.04
Antenna B	Low	5736	14.04
	Middle	5762	14.04
	High	2814	14.04

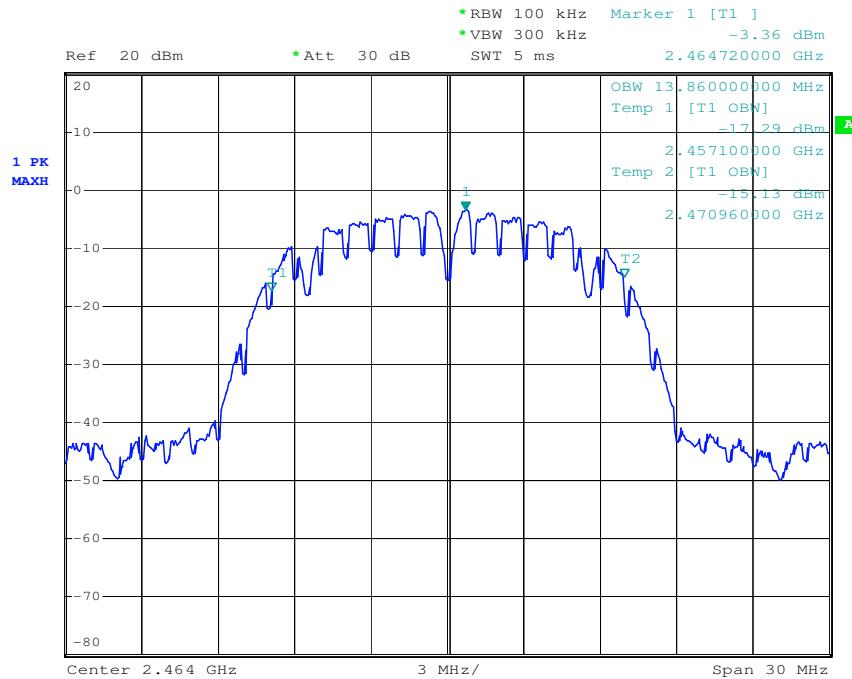
Test mode:	2.4GHz Band Antenna A	Test channel:	Low
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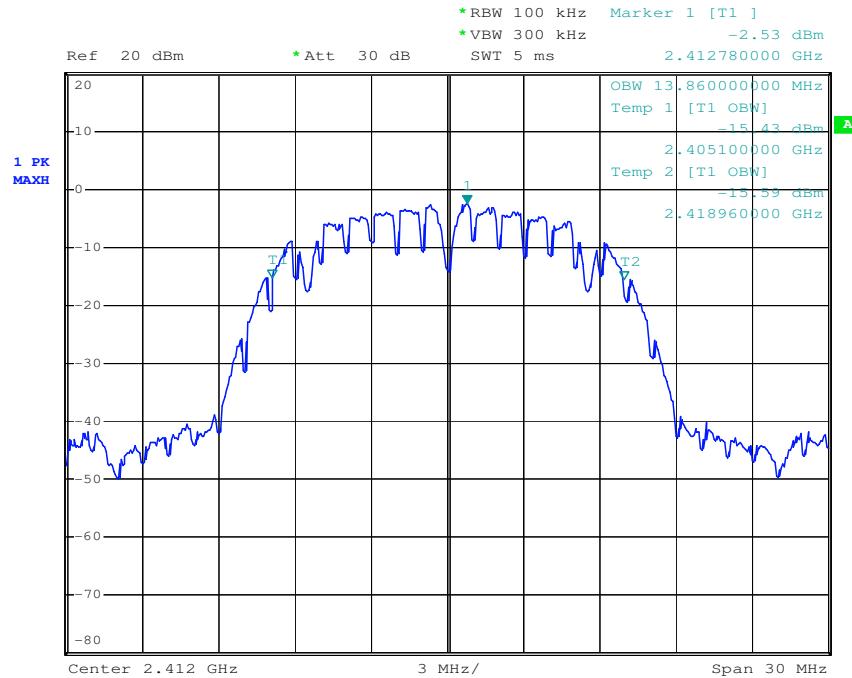
Test mode:	2.4GHz Band Antenna A	Test channel:	Middle
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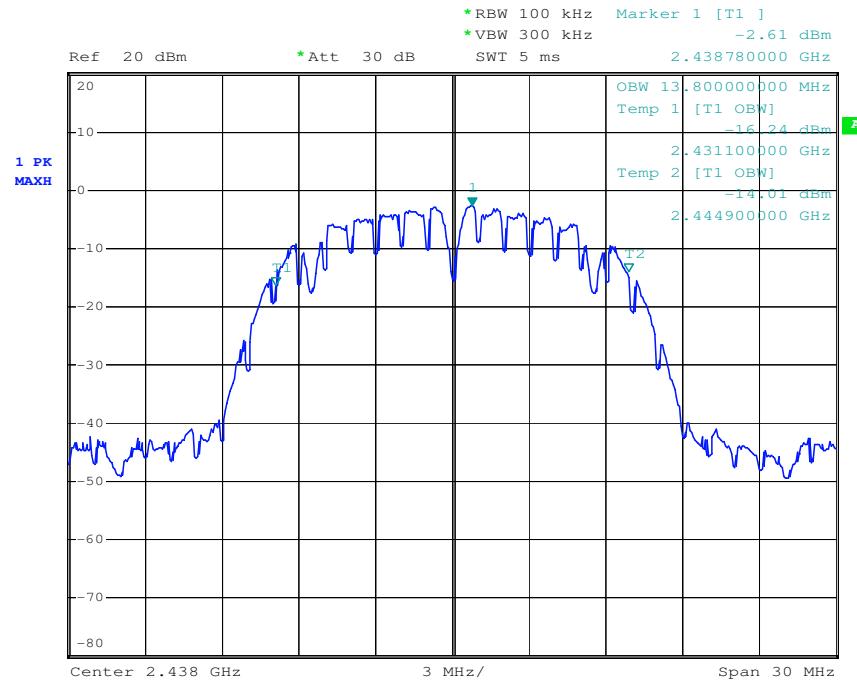
Test mode:	2.4GHz Band Antenna A	Test channel:	High
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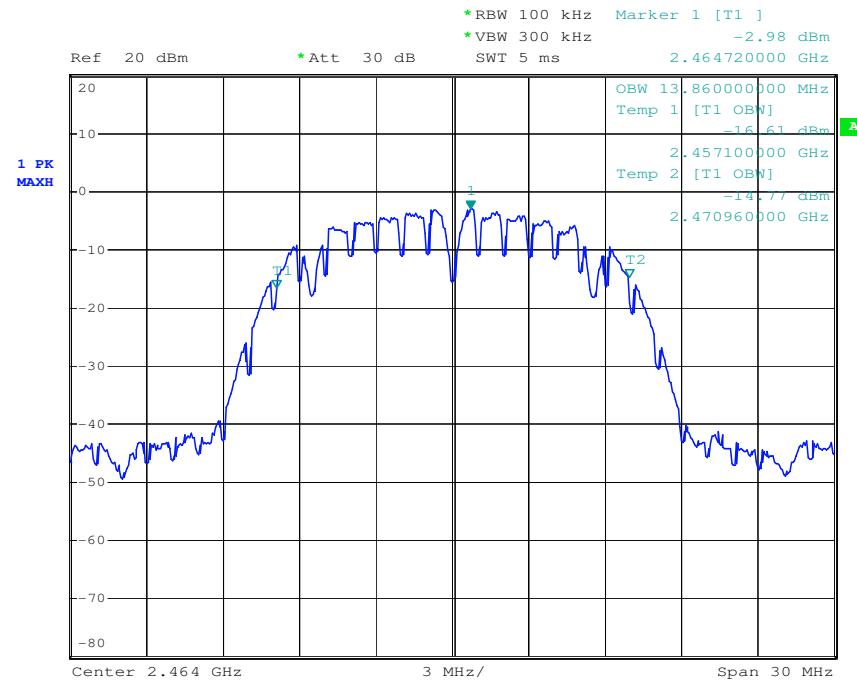
Test mode:	2.4GHz Band Antenna B	Test channel:	Low
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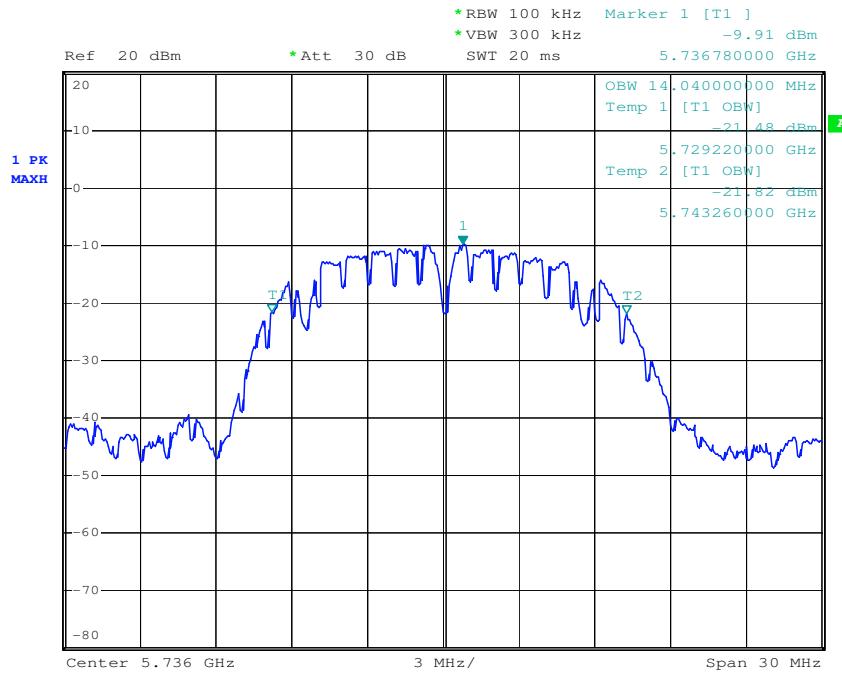
Test mode:	2.4GHz Band Antenna B	Test channel:	Middle
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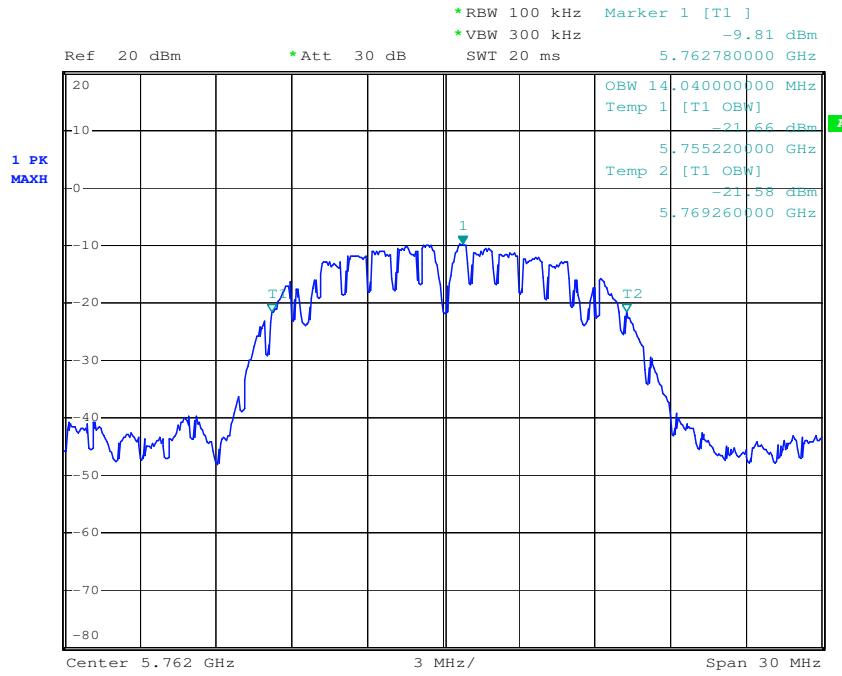
Test mode:	2.4GHz Band Antenna B	Test channel:	High
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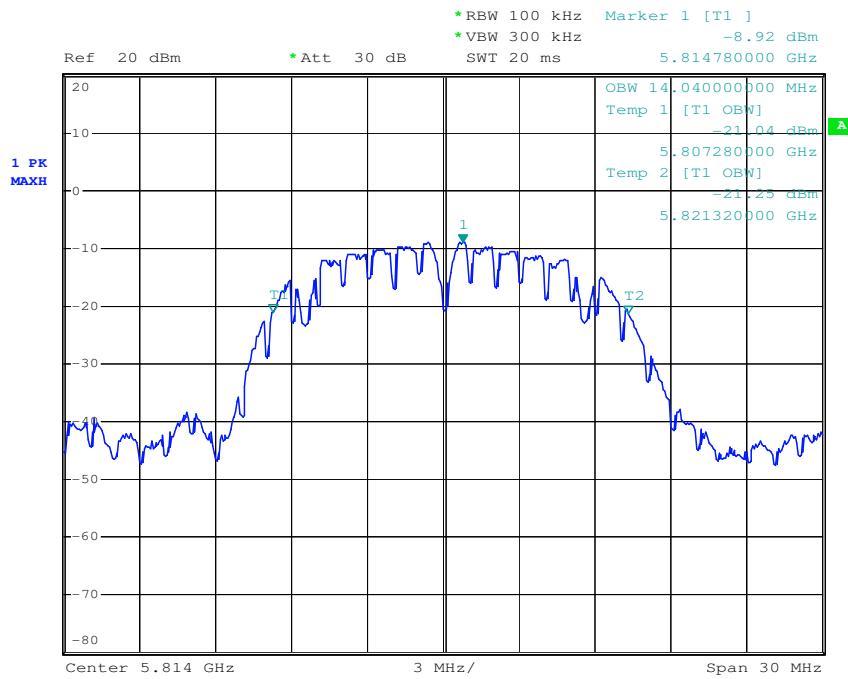
Test mode:	5.8GHz Band Antenna A	Test channel:	Low
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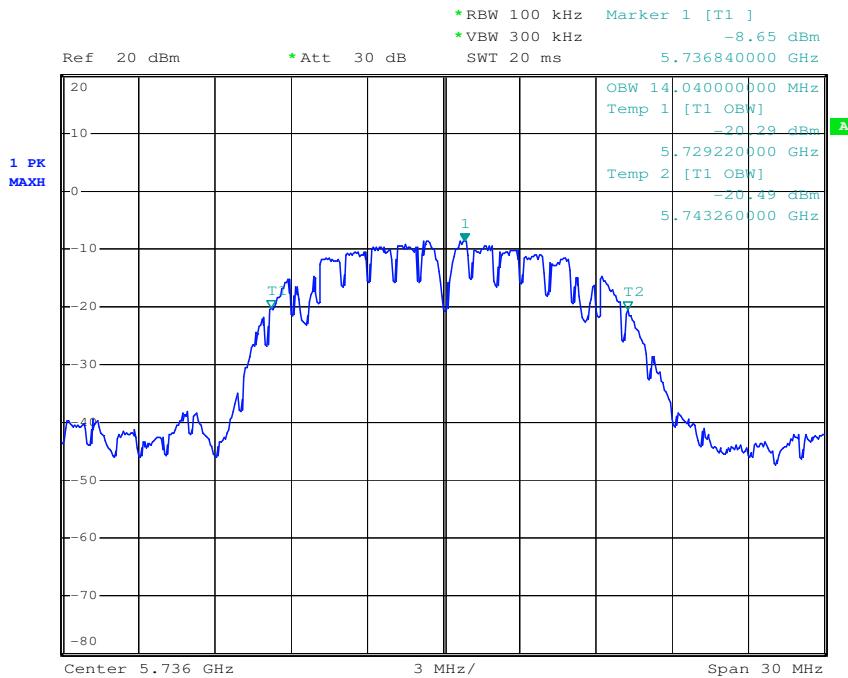
Test mode:	5.8GHz Band Antenna A	Test channel:	Middle
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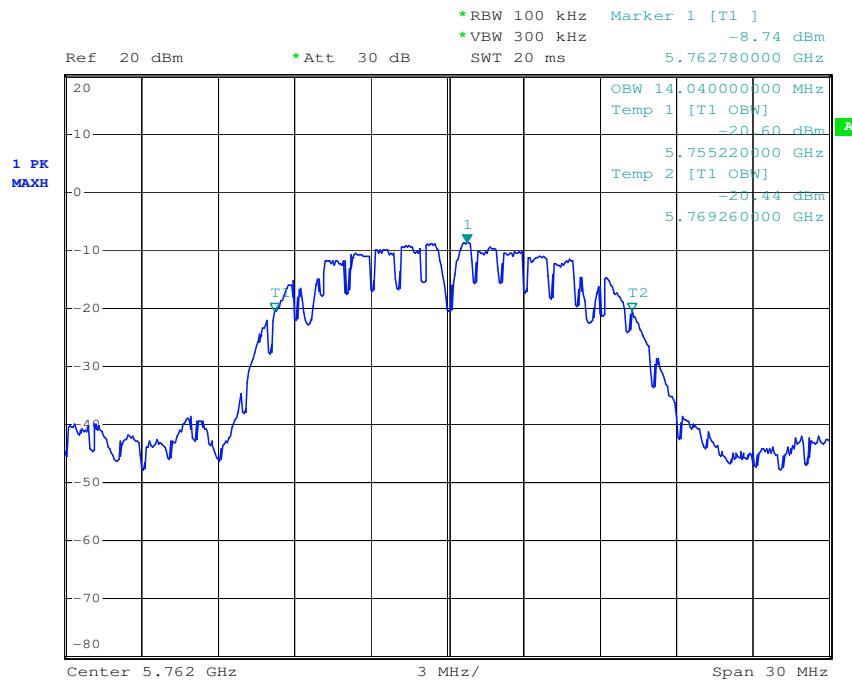
Test mode:	5.8GHz Band Antenna A	Test channel:	High
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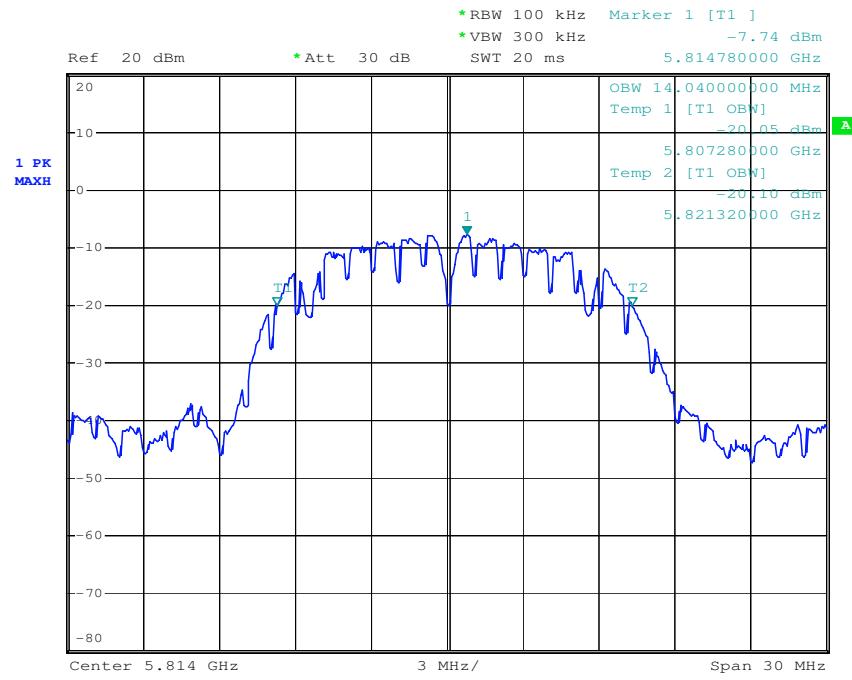
Test mode:	5.8GHz Band Antenna B	Test channel:	Low
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Test mode:	5.8GHz Band Antenna B	Test channel:	Middle
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Test mode:	5.8GHz Band Antenna B	Test channel:	High
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8 Test Setup Photographs

Refer to the <DAC2 _Test Setup photos>.

9 EUT Constructional Details

Refer to the < DAC2 _External Photos > & < DAC2 _Internal Photos >.

End of Report