



Shenzhen GTI Technology Co., Ltd.

1F,2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District,
Shenzhen, Guangdong, China.

Tel: +86-755-27559792

Fax: +86-755-86116468

Report No.: GTI20140381F-2

Page 1 of 52

TEST REPORT

Product Name: Mobile Phone

Trademark: LOGIC

Model/Type reference: LOGIC X5.5

Listed Model(s): /

FCC ID.....: O5555SCG1408

Test Standards: FCC Part 15.247: Operation within the bands 902-928
MHz, 2400-2483.5 MHz and 5725-5850 MHz

Applicant: Swagtek Inc.

Address of applicant: 8800 NW 23rd Street, Miami FL33172, USA

Date of Receipt: Sep.02, 2014

Date of Test Date.....: Sep.02, 2014 - Sep.27, 2014

Data of issue.: Sep.28, 2014

Test result	Pass *
--------------------	---------------

* In the configuration tested, the EUT complied with the standards specified above

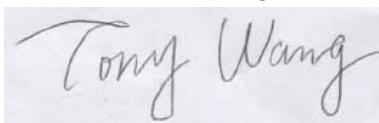
GENERAL DESCRIPTION OF EUT	
Equipment:	Mobile Phone
Model Name:	LOGIC X5.5
Manufacturer:	Swagtek Inc.
Manufacturer Address:	8800 NW 23rd Street, Miami FL33172, USA
Power Source:	DC 3.7V from 1900mAh Li-ion battery
Power Rating:	Input: 100-240VAC, 50/60Hz Output: 5VDC==1.0A

Compiled By:



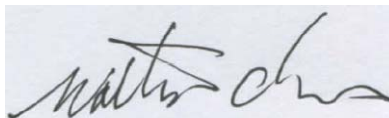
(Allen Wang)

Reviewed By:



(Tony Wang)

Approved By:



(Walter Chen)

This test report consists of 52 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by GTI. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to GTI within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.



Table of Contents

Page

1. SUMMARY.....	4
1.1. TEST STANDARDS.....	4
1.2. TEST DESCRIPTION.....	4
1.3. TEST FACILITY	5
1.4. MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION.....	6
2.1. ENVIRONMENTAL CONDITIONS	6
2.2. GENERAL DESCRIPTION OF EUT	6
2.3. DESCRIPTION OF TEST MODES	7
2.4. MEASUREMENT INSTRUMENTS LIST	8
3. TEST CONDITIONS AND RESULTS	9
3.1. CONDUCTED EMISSION (AC MAIN)	9
3.2. RADIATED EMISSION	12
3.3. MAXIMUM PEAK OUTPUT POWER	18
3.4. POWER SPECTRAL DENSITY	19
3.5. 6dB BANDWIDTH.....	23
3.6. BAND EDGE COMPLIANCE OF RF EMISSION	27
3.7. SPURIOUS RF CONDUCTED EMISSION.....	34
3.8. ANTENNA REQUIREMENT.....	50
4. EUT TEST PHOTO	51
5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL	51

1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10: American National Standard for Testing Unlicensed Wireless Devices

KDB558074 D01 V03r02: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

1.2. Test Description

FCC PART 15 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Remark: The measurement uncertainty is not included in the test result.

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen General Testing & Inspection Technology Co., Ltd.

Add: 1F, 2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District, Shenzhen, Guangdong, China

1.3.2 Laboratory accreditation

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

IC Registration No.: 9783A

The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Aug, 2011.

FCC-Registration No.: 214666

Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 214666, Sep 19, 2011

1.4. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements and is documented in the Shenzhen General Testing & Inspection Technology Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for General Testing & Inspection laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

2.2. General Description of EUT

Product Name:	Mobile Phone
Model/Type reference:	LOGIC X5.5
Power supply:	DC 3.7V from 1900mAh Li-ion battery
Adapter information:	Model: UT-107A-5010Y Input: 100-240VAC, 50/60Hz Output: 5VDC---1.0A
Hardware version:	E02_V1.02_PCB(140308)_PCB
Software version:	MX-S55026W1-20141008-v07
WIFI :	
Supported type:	802.11b/802.11g/802.11n(H20)/802.11n(H40)
Modulation:	802.11b: DSSS 802.11g/802.11n(H20)/802.11n(H40): OFDM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11 802.11n(H40): 7
Channel separation:	5MHz
Antenna type:	PIFI Antenna
Antenna gain:	1.22 dBi
Bluetooth:	
Supported type:	Version 4.0 for low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Antenna type:	PIFI Antenna
Antenna gain:	1.22 dBi

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.3. Description of Test Modes

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.

BT 4.0 Operation Frequency :

Channel	Frequency (MHz)
00	2402
02	2404
03	2406
:	:
19	2440
:	:
37	2476
38	2478
39	2480

WIFI Operation Frequency :

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9kHz~1GHz& Radiated Emission 1GHz~10th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	13.5 Mbps	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	13.5 Mbps	3//9

2.4. Measurement Instruments List

Maximum Peak Output Power					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487B	110553	July 10,2015
2	Power Sensor	Anritsu	MA2411B	100345	July 10,2015

Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	Oct 25,2014

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrate until
1	LISN	R&S	ENV216	101112	Dec. 26, 2014
2	LISN	R&S	ENV216	101113	Dec. 26, 2014
3	EMI Test Receiver	R&S	ESCI	100920	Dec. 26, 2014
4	Cable	Schwarzbeck	Cable001	--	Dec. 26, 2014

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100658	Dec 26,2014
2	High pass filter	Compliance Direction systems	BSU-6	34202	Oct 25,2014
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec 27,2014
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec 27,2014
5	Loop Antenna	LAPLAC	RF300	9138	Nov 15,2014
6	Spectrum Analyzer	HP	8563E	02052	Dec 27,2014
7	Horn Antenna	Schwarzbeck	BBHA 9120D	648	Dec 27,2014
8	Pre-Amplifier	HP	8447D	1937A03050	Dec 26,2014
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec 27,2014
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable	Schwarzbeck	Cable002	--	Dec. 26,2014
13	Cable	Schwarzbeck	Cable003	--	Dec. 26,2014

Note: 1. The Cal.Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

3. TEST CONDITIONS AND RESULTS

3.1. Conducted Emission (AC Main)

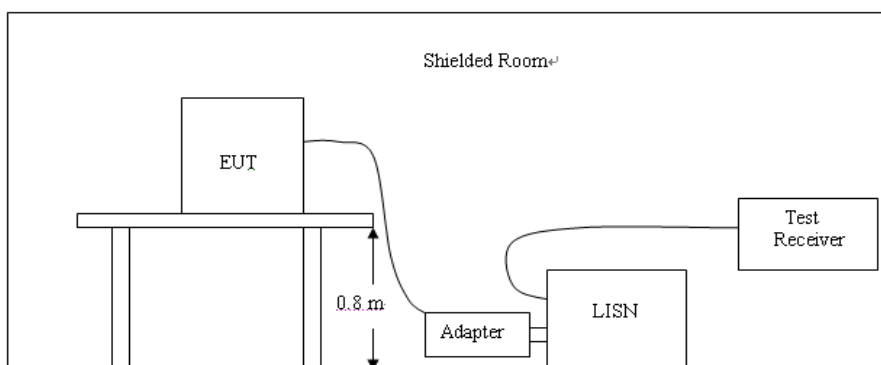
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	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.

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2009.
2. Support equipment, if needed, was placed as per ANSI C63.10-2009
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2009
4. The EUT received DC5V power from the adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

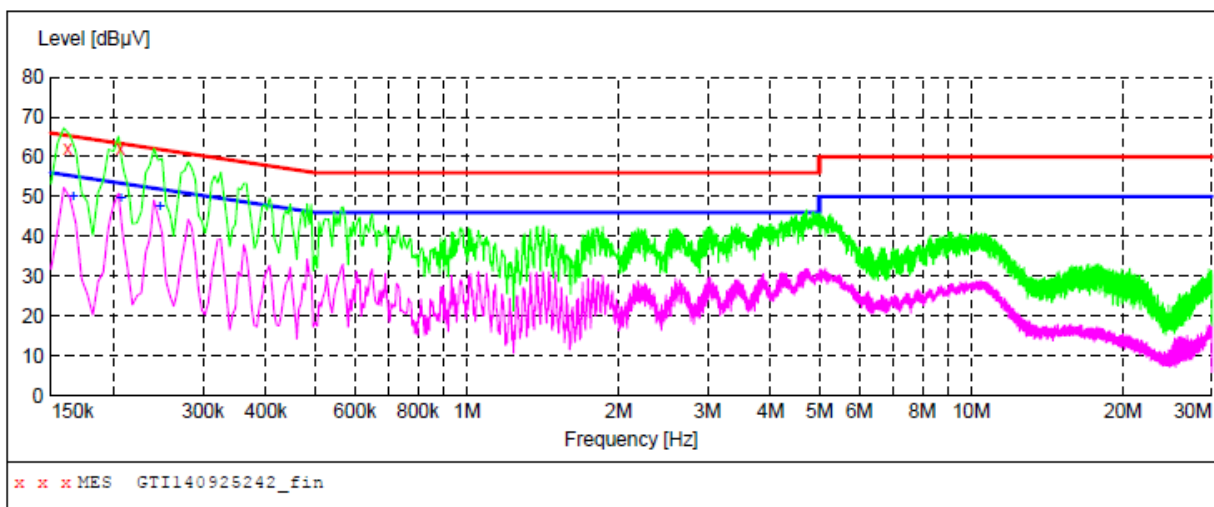
TEST RESULTS

LINE

L

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "GTI140925242_fin"

9/25/2014 2:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162000	62.20	9.9	65	3.2	QP	L1	GND
0.206000	62.10	9.9	63	1.3	QP	L1	GND

MEASUREMENT RESULT: "GTI140925242_fin2"

9/25/2014 2:38PM

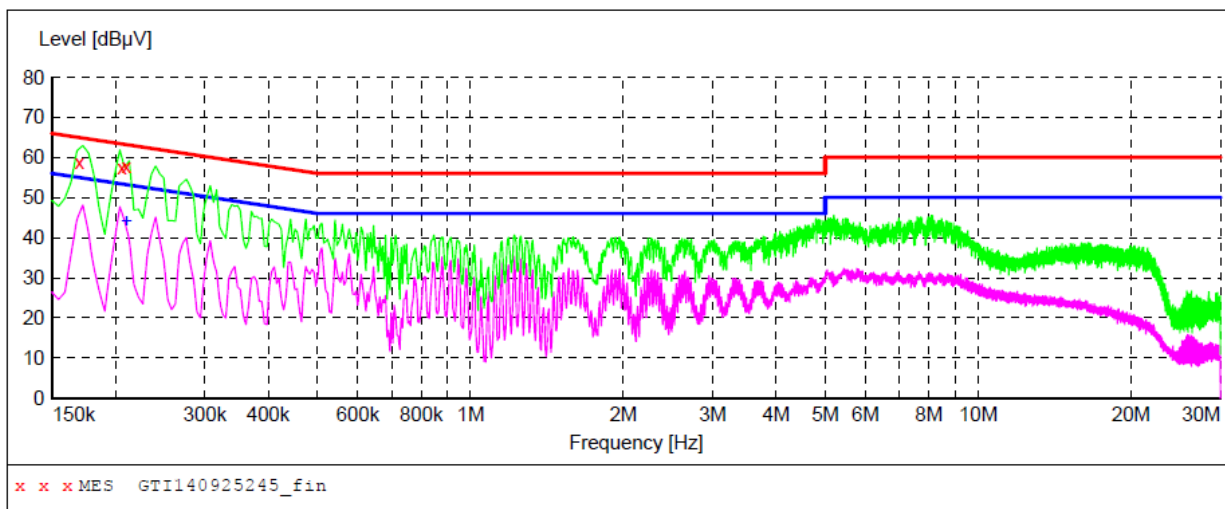
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.166000	50.00	9.9	55	5.2	AV	L1	GND
0.206000	49.50	9.9	53	3.9	AV	L1	GND
0.246000	47.60	9.9	52	4.3	AV	L1	GND

LINE

N

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage


MEASUREMENT RESULT: "GTI140925245_fin"

9/25/2014 2:45PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	58.80	9.9	65	6.2	QP	L1	GND
0.206000	57.30	9.9	63	6.1	QP	L1	GND
0.210000	57.80	9.9	63	5.4	QP	L1	GND

MEASUREMENT RESULT: "GTI140925245_fin2"

9/25/2014 2:45PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.210000	43.90	9.9	53	9.3	AV	L1	GND

3.2. Radiated Emission

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT 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 desired power.

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz, VBW=3MHz for Peak Detector while the RBW=1MHz, VBW=10Hz for Average Detector, Readings are both peak and average values. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBuV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

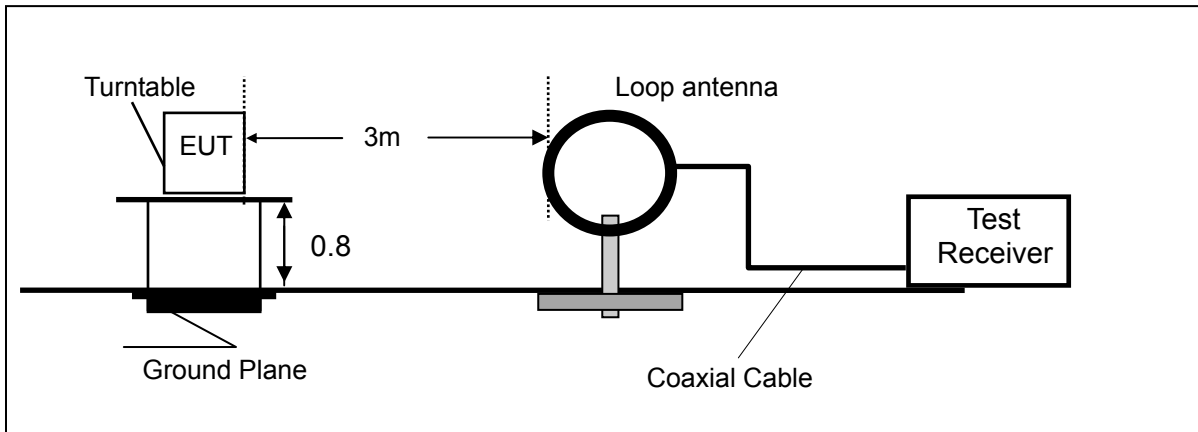
For example

Frequency (MHz)	FS (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
150.00	40	58.1	12.2	1.6	31.90	-18.1

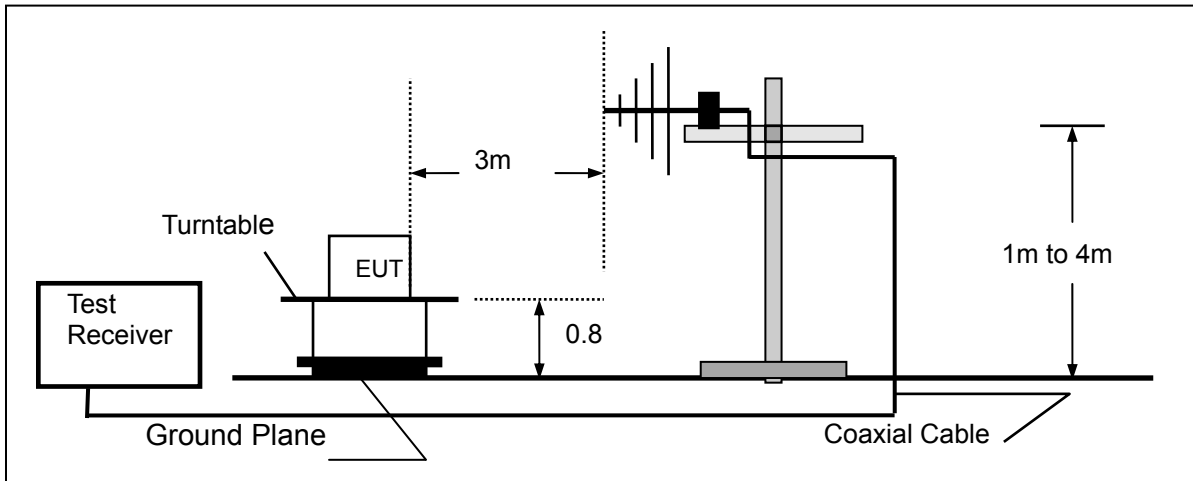
$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

Test Configuration

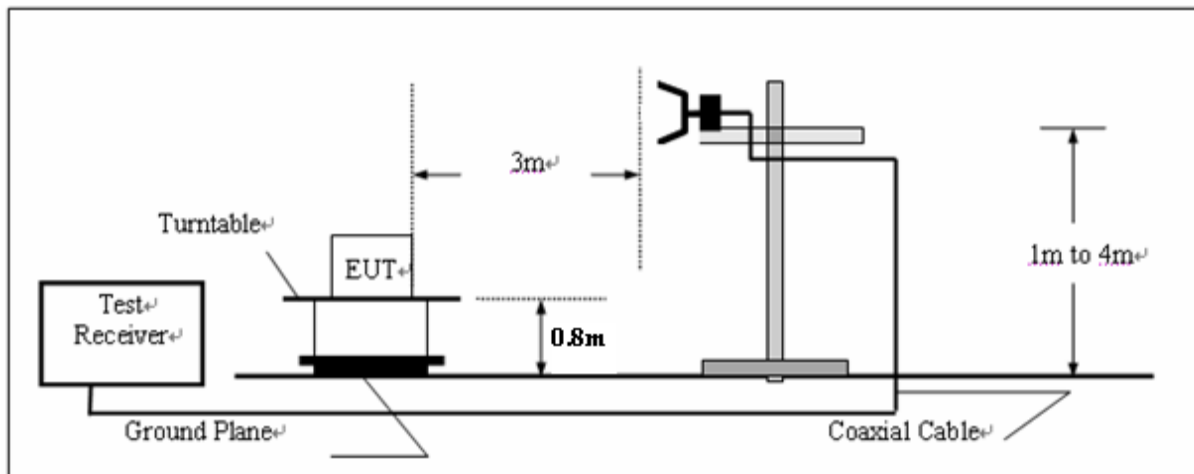
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



Test Results

Remark:

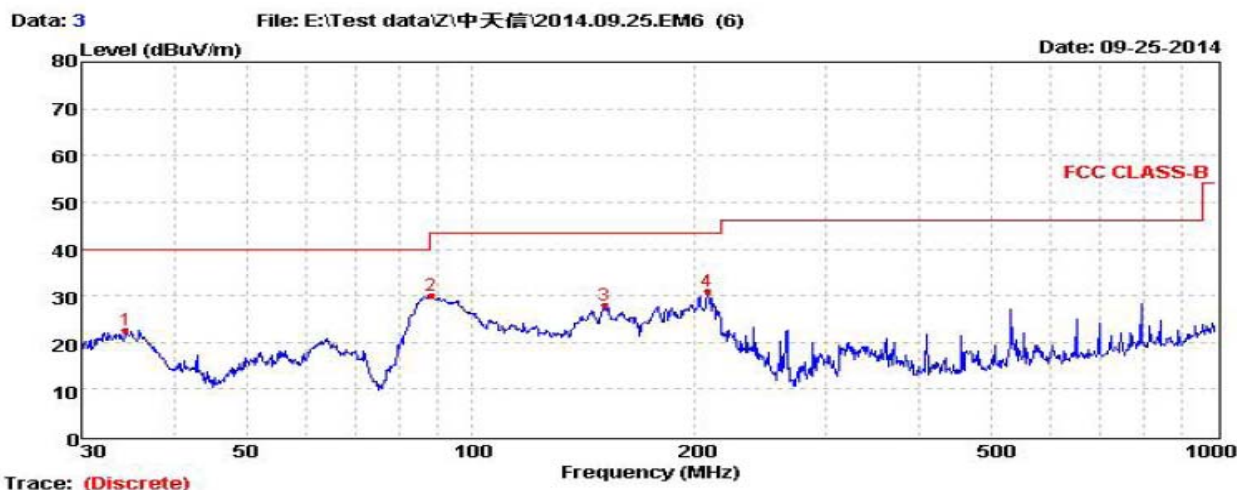
1. We tested three channels for each mode of BT/WIFI and recorded worst case at low channel at 802.11b mode below 1GHz.
2. We tested three channels for each mode of WIFI and recorded worst case at 802.11b mode above 1GHz.

For 9 KHz-30MHz

Frequency (MHz)	Corrected Reading (dBuV/m)@3m	FCC Limit (dBuV/m) @3m	Margin (dB)	Detector	Result
0.57	53.62	72.49	18.87	QP	PASS
1.69	41.25	63.05	21.80	QP	PASS
16.65	52.32	69.54	17.22	QP	PASS
24.25	49.65	69.54	19.89	QP	PASS

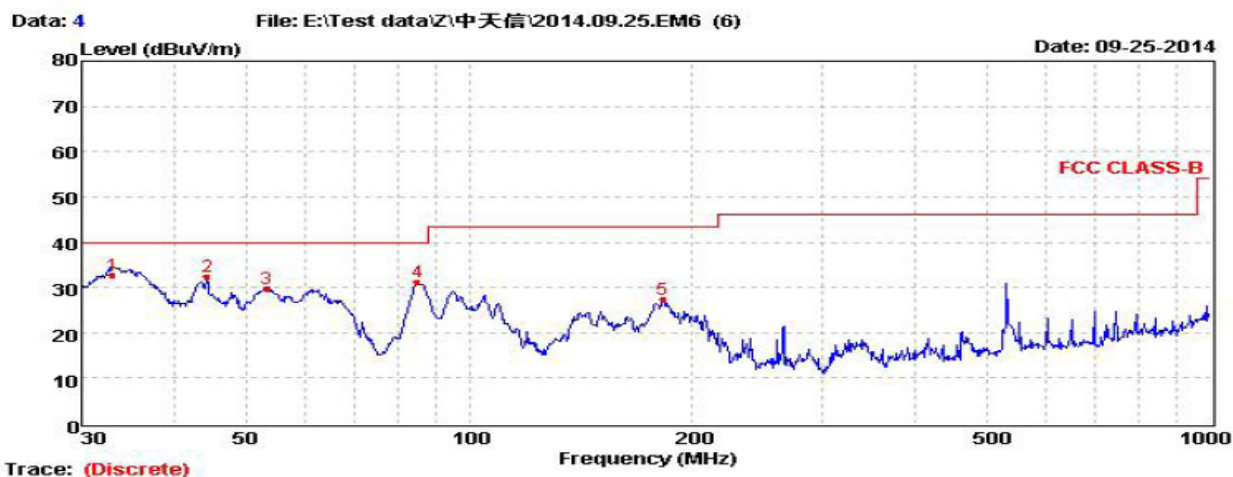
For 30MHz-1GHz

Horizontal



Mark	Frequency MHz	Level dBuV/m	Factor dB/m	Reading dBuV	Limit dBuV/m	Margin dB	Polarization	Detector
1	34.40	22.75	-10.48	33.23	40.00	17.25	HORIZONTAL	Peak
2	88.34	30.18	-20.52	50.70	43.50	13.32	HORIZONTAL	Peak
3	151.07	27.93	-19.98	47.91	43.50	15.57	HORIZONTAL	Peak
4	207.85	31.07	-17.82	48.89	43.50	12.43	HORIZONTAL	Peak

Vertical



Mark	Frequency MHz	Level dBuV/m	Factor dB/m	Reading dBuV	Limit dBuV/m	Margin dB	Polarization	Detector
1	32.98	32.81	-9.68	42.49	40.00	7.19	VERTICAL	QP
2	44.28	32.31	-13.78	46.09	40.00	7.69	VERTICAL	Peak
3	53.32	29.78	-16.55	46.33	40.00	10.22	VERTICAL	Peak
4	85.00	31.36	-20.94	52.30	40.00	8.64	VERTICAL	Peak
5	182.56	27.46	-19.61	47.07	43.50	16.04	VERTICAL	Peak



For 1GHz to 25GHz

802.11b Mode (above 1GHz)

Frequency(MHz):				2412			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4824	60.25	PK	74	13.75	1.00	39	58.15	31.6	7.00	36.5	2.10
1	4824	46.25	AV	54	7.75	1.00	39	44.15	31.6	7.00	36.5	2.10
2	7236	57.25	PK	74	16.75	1.00	131	46.32	37.33	8.90	35.3	10.93
2	7236	41.61	AV	54	12.39	1.00	131	30.68	37.33	8.90	35.3	10.93

Frequency(MHz):				2412			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4824	61.26	PK	74	12.74	1.00	301.00	59.16	31.60	7.00	36.50	2.10
1	4824	47.25	AV	54	6.75	1.00	301.00	45.15	31.60	7.00	36.50	2.10
2	7236	58.62	PK	74	15.38	1.00	157.00	47.69	37.33	8.90	35.30	10.93
2	7236	42.33	AV	54	11.67	1.00	157.00	31.40	37.33	8.90	35.30	10.93

Frequency(MHz):				2437			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4874.00	59.66	PK	74.00	14.34	1.00	215	57.54	31.02	7.60	36.5	2.12
1	4874.00	47.62	AV	54.00	6.38	1.00	215	45.50	31.02	7.60	36.5	2.12
2	7311.00	57.10	PK	74.00	16.90	1.00	193	46.02	37.28	8.60	34.8	11.08
2	7311.00	41.20	AV	54.00	12.80	1.00	193	30.12	37.28	8.60	34.8	11.08

Frequency(MHz):				2437			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4874.00	59.69	PK	74.00	14.31	1.00	131	57.57	31.02	7.60	36.5	2.12
1	4874.00	47.25	AV	54.00	6.75	1.00	131	45.13	31.02	7.60	36.5	2.12
2	7311.00	55.10	PK	74.00	18.90	1.00	39	44.02	37.28	8.60	34.8	11.08
2	7311.00	40.11	AV	54.00	13.89	1.00	39	29.03	37.28	8.60	34.8	11.08

Frequency(MHz):				2462			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4924.00	60.32	PK	74.00	13.68	1.00	319	57.12	31.58	7.82	36.2	3.20
1	4924.00	48.11	AV	54.00	5.89	1.00	319	44.91	31.58	7.82	36.2	3.20
2	7386.00	55.21	PK	74.00	18.79	1.00	127	43.27	38.51	8.73	35.3	11.94
2	7386.00	39.33	AV	54.00	14.67	1.00	127	27.39	38.51	8.73	35.3	11.94

Frequency(MHz):				2462			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4924.00	60.54	PK	74.00	13.46	1.00	312	57.34	31.58	7.82	36.2	3.20
1	4924.00	45.24	AV	54.00	8.76	1.00	312	42.04	31.58	7.82	36.2	3.20
2	7386.00	55.74	PK	74.00	18.26	1.00	207	43.80	38.51	8.73	35.3	11.94
2	7386.00	40.11	AV	54.00	13.89	1.00	207	28.17	38.51	8.73	35.3	11.94

BT4.0 Mode (above 1GHz)

Frequency(MHz):				2402			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4804.00	56.25	PK	74.00	17.75	1.00 H	353	54.35	31.42	6.98	36.5	1.90
1	4804.00	40.12	AV	54.00	13.88	1.00 H	353	38.22	31.42	6.98	36.5	1.90
2	7206.00	43.21	PK	74.00	30.79	1.00 H	125	32.61	37.03	8.87	35.3	10.60
2	7206.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2402			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4804.00	55.36	PK	74.00	18.64	1.00 V	124	53.46	31.42	6.98	36.5	1.90
1	4804.00	42.11	AV	54.00	11.89	1.00 V	124	40.21	31.42	6.98	36.5	1.90
2	7206.00	44.22	PK	74.00	29.78	1.00 V	110	33.62	37.03	8.87	35.3	10.60
2	7206.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2440			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4882.00	57.39	PK	74.00	16.61	1.00 H	180	55.33	30.98	7.58	36.5	2.06
1	4882.00	46.44	AV	54.00	7.56	1.00 H	180	44.38	30.98	7.58	36.5	2.06
2	7323.00	41.32	PK	74.00	32.68	1.00 H	55	30.40	37.66	8.56	35.3	10.92
2	7323.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2440			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4882.00	56.33	PK	74.00	17.67	1.00 V	183	54.27	30.98	7.58	36.5	2.06
1	4882.00	45.10	AV	54.00	8.90	1.00 V	183	43.04	30.98	7.58	36.5	2.06
2	7323.00	41.25	PK	74.00	32.75	1.00 V	76	30.33	37.66	8.56	35.3	10.92
2	7323.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2480			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4960.00	57.54	PK	74.00	16.46	1.00 H	35	54.47	31.47	7.80	36.2	3.07
1	4960.00	46.32	AV	54.00	7.68	1.00 H	35	43.25	31.47	7.80	36.2	3.07
2	7340.00	44.11	PK	74.00	29.89	1.00 H	43	32.37	38.32	8.72	35.3	11.74
2	7340.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2480			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4960.00	56.35	PK	74.00	17.65	1.00 V	136	53.28	31.47	7.80	-36.2	3.07
1	4960.00	44.78	AV	54.00	9.22	1.00 V	136	41.71	31.47	7.80	-36.2	3.07
2	7340.00	47.33	PK	74.00	26.67	1.00 V	254	35.59	38.32	8.72	-35.3	11.74
2	7340.00	--	AV	--	--	--	--	--	--	--	--	--

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
3. Margin value = Limit value - Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

3.3. Maximum Peak Output Power

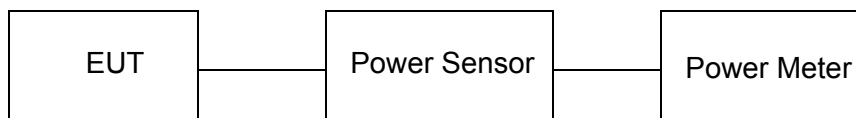
Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

WIFI				
Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11b	01	23.88	30.00	Pass
	06	23.65		
	11	23.78		
802.11g	01	23.44	30.00	Pass
	06	23.36		
	11	23.41		
802.11n(H20)	01	23.36	30.00	Pass
	06	23.25		
	11	23.20		
802.11n(H40)	03	22.99	30.00	Pass
	06	22.85		
	09	22.78		

Note: 1.The test results including the cable lose.

BT4.0				
Type	Channel	Output power (dBm)	Limit (dBm)	Result
GFSK	00	1.62	30.00	Pass
	19	1.10		
	39	0.89		

Note: 1.The test results including the cable los

3.4. Power Spectral Density

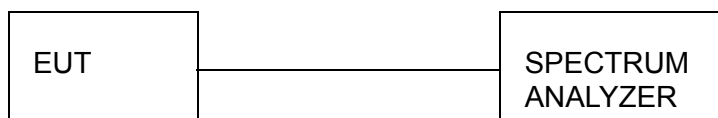
Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW ≥ 3 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

Test Configuration



Test Results

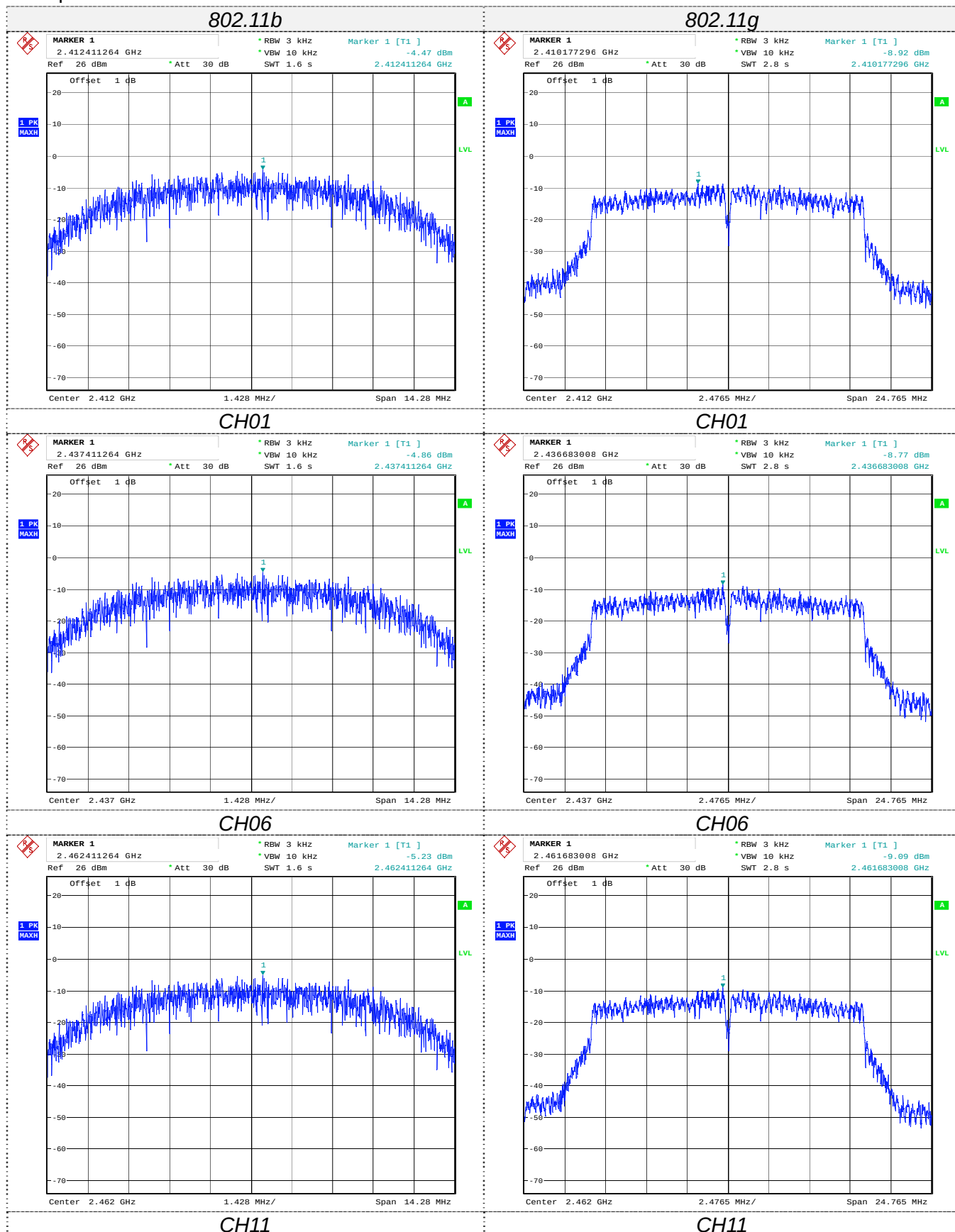
WIFI

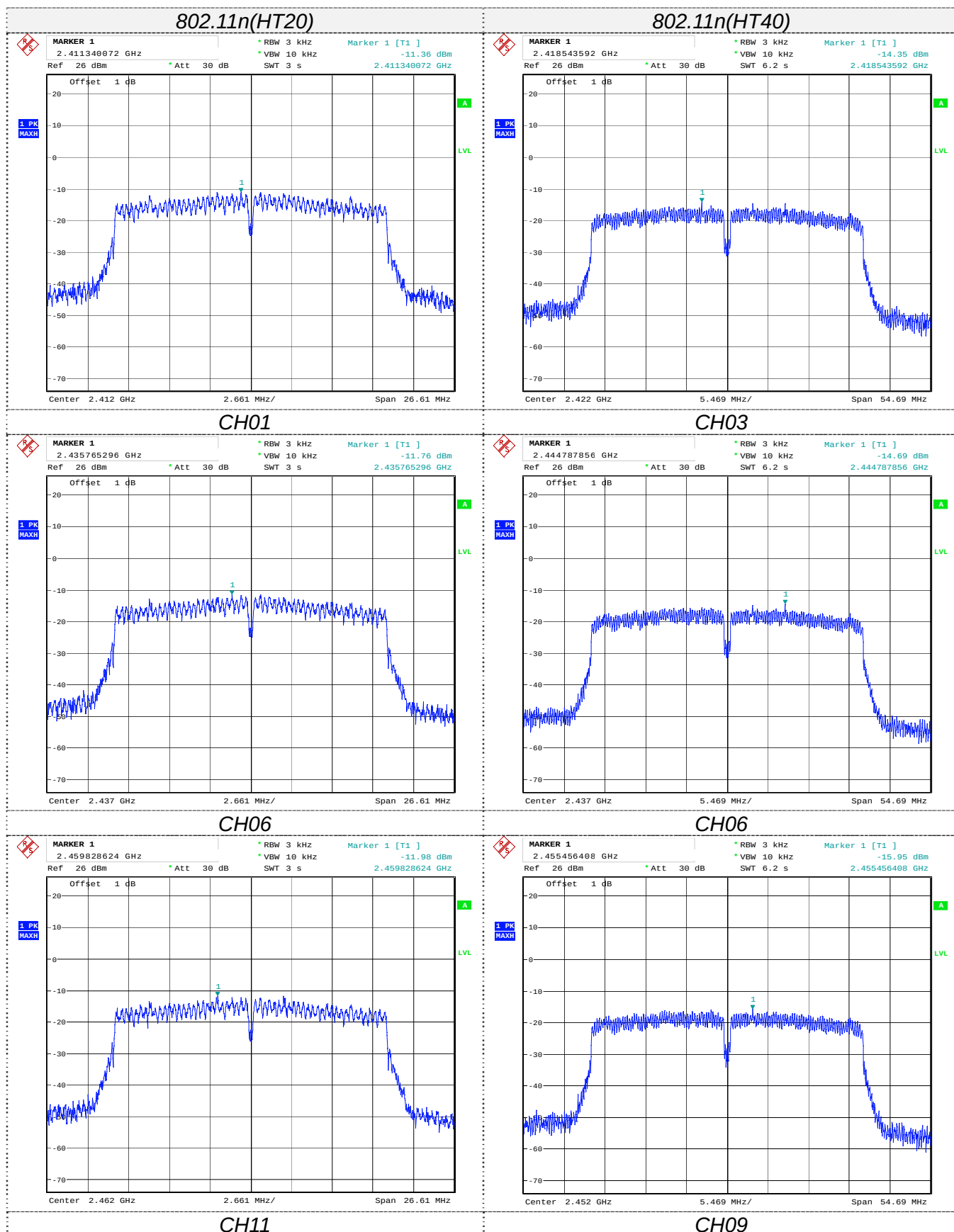
Type	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-4.47	8.00	Pass
	06	-4.86		
	11	-5.23		
802.11g	01	-8.92	8.00	Pass
	06	-8.77		
	11	-9.09		
802.11n(HT20)	01	-11.36	8.00	Pass
	06	-11.76		
	11	-11.98		
802.11n(HT40)	03	-14.35	8.00	Pass
	06	-14.69		
	09	-15.95		

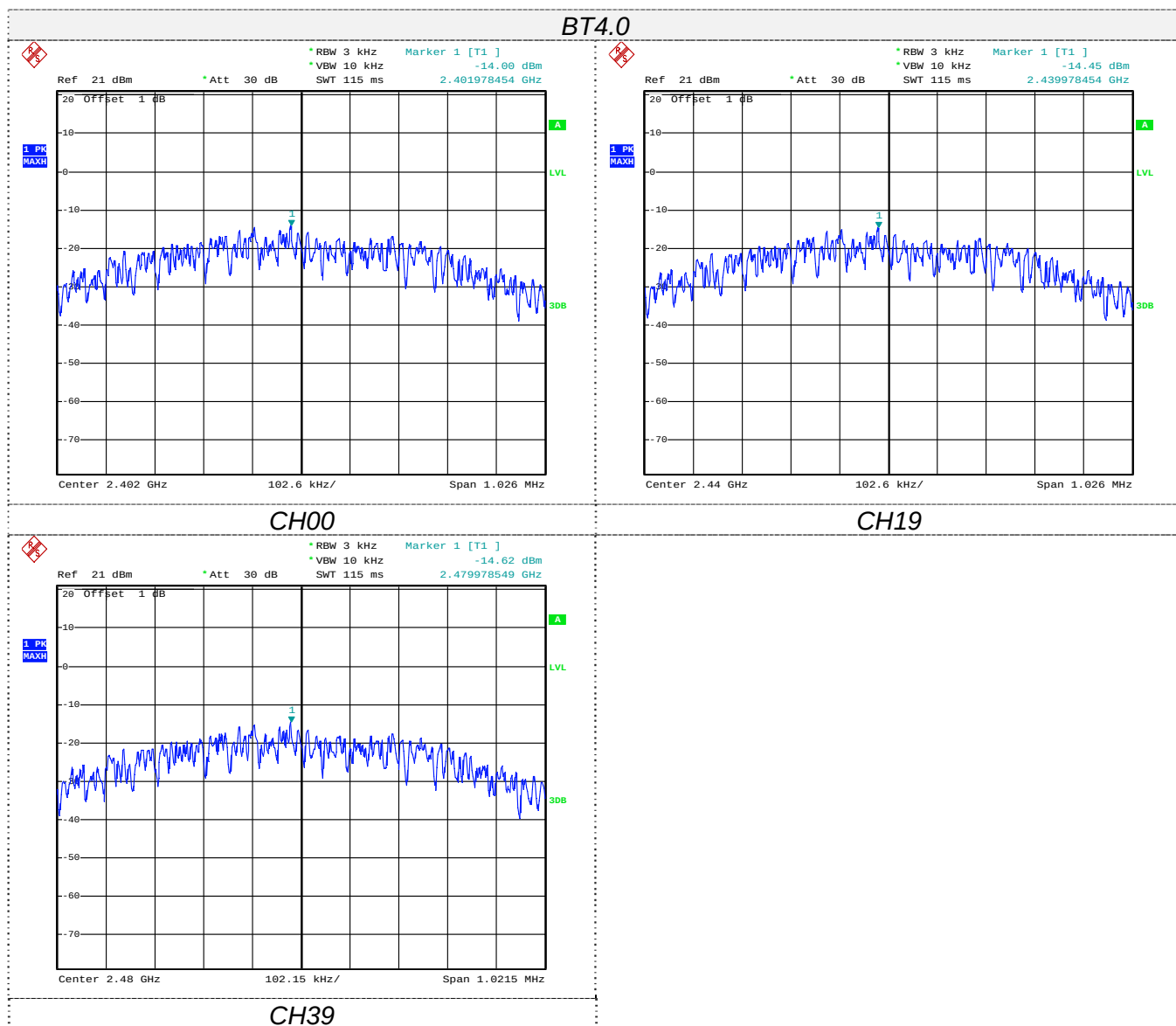
BT4.0

Type	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-14.00	8.00	Pass
	06	-14.45		
	11	-14.62		

Test plot as follows:







3.5. 6dB Bandwidth

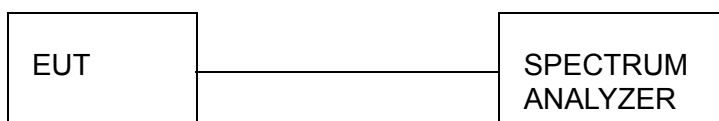
Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration

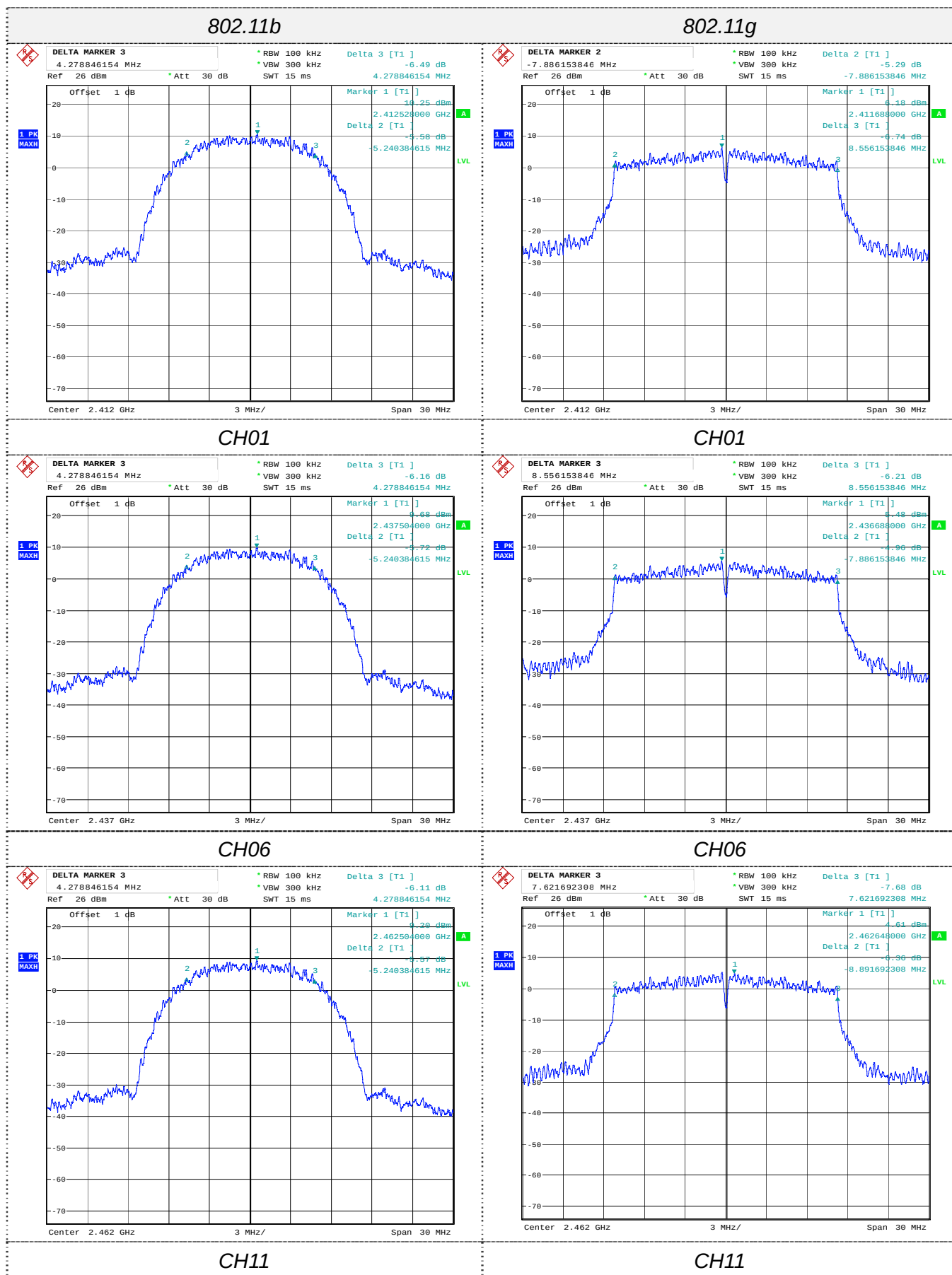


Test Results

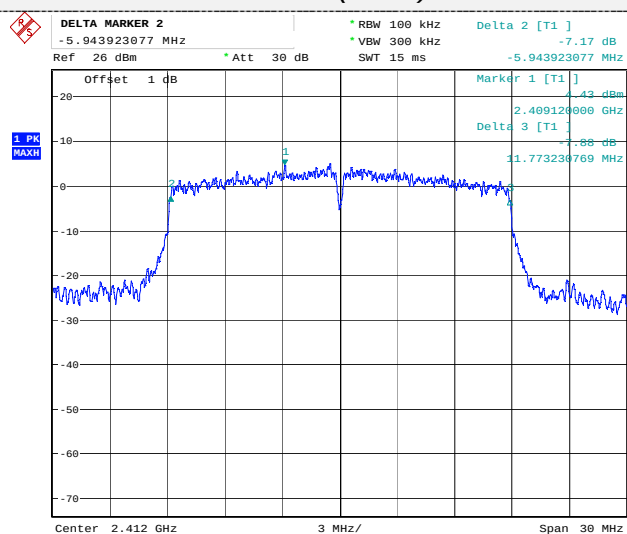
WIFI				
Type	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11b	01	9.520	≥500	Pass
	06	9.520		
	11	9.520		
802.11g	01	16.440	≥500	Pass
	06	16.440		
	11	16.440		
802.11n(HT20)	01	17.720	≥500	Pass
	06	17.740		
	11	17.740		
802.11n(HT40)	03	36.420	≥500	Pass
	06	36.460		
	09	36.270		

BT4.0				
Type	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
GFSK	00	0.684	≥500	Pass
	19	0.684		
	39	0.681		

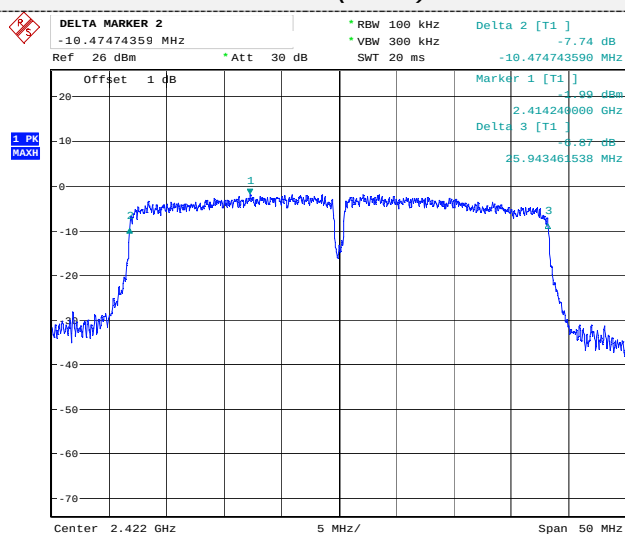
Test plot as follows:



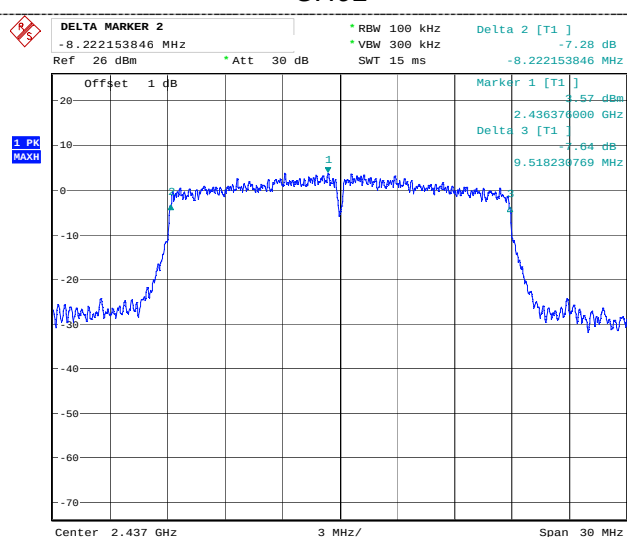
802.11n(HT20)



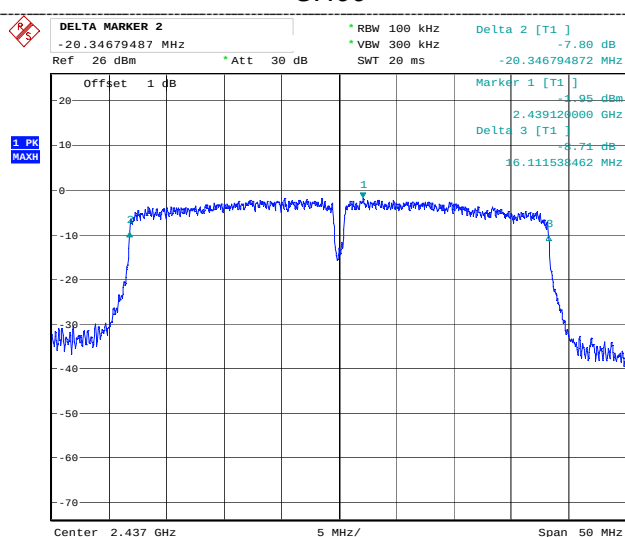
802.11n(HT40)



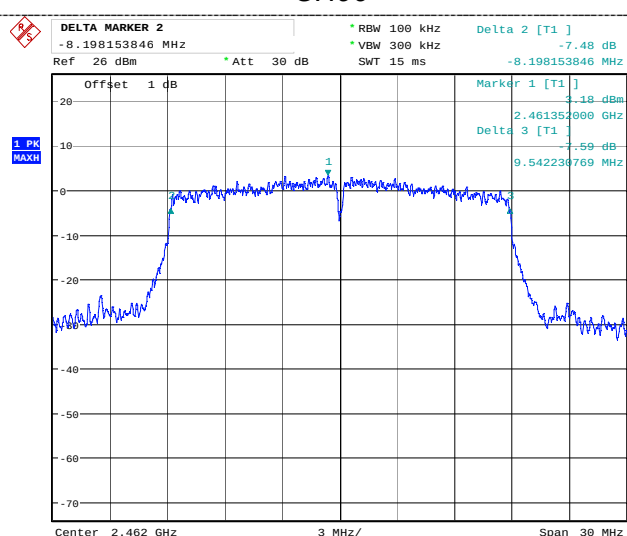
CH01



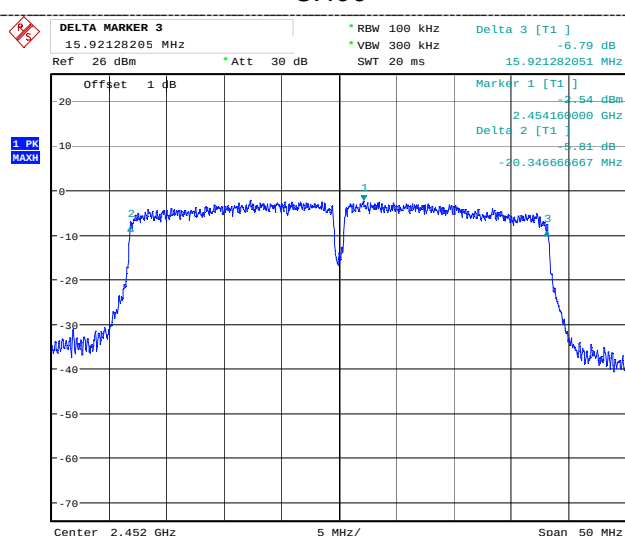
CH00



CH06



CH06



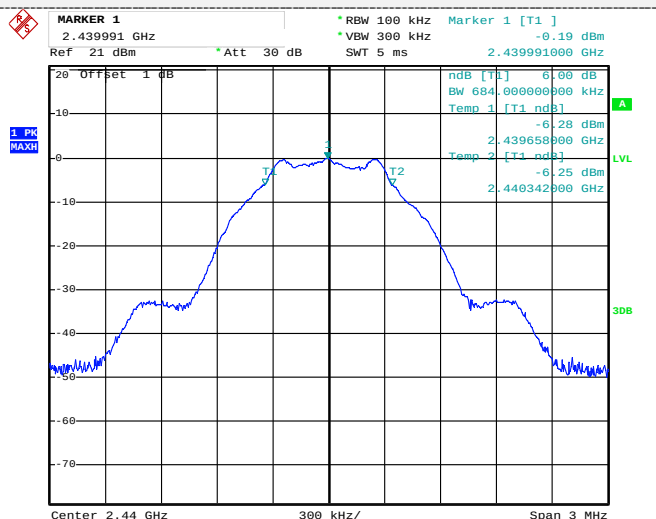
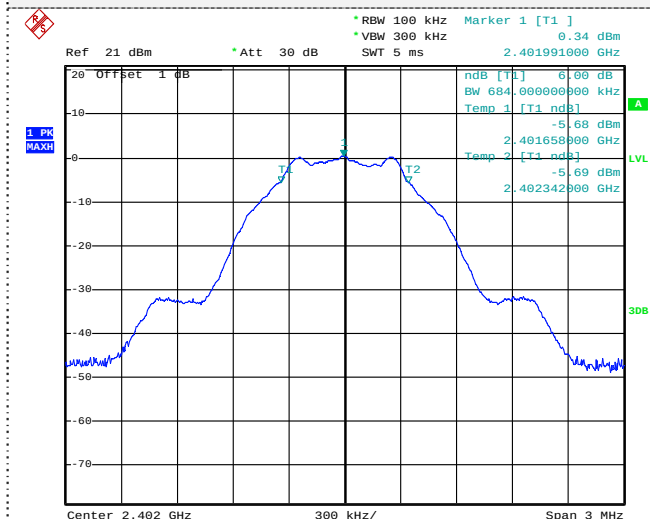
CH11



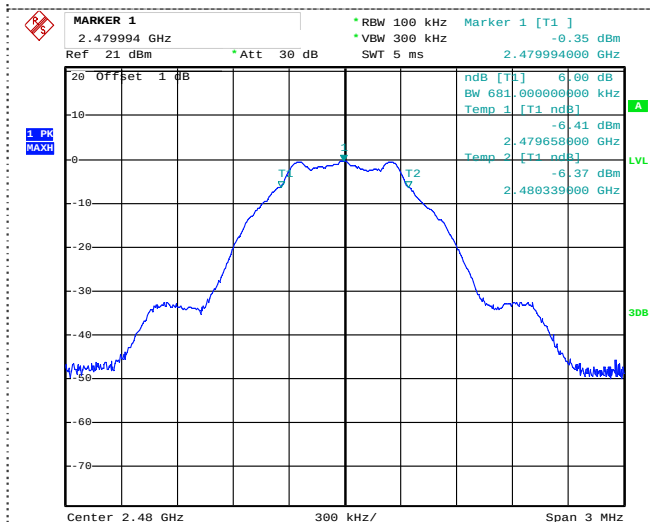
CH09



BT4.0



CH00



CH19

CH39

3.6. Band Edge Compliance of RF Emission

Limit

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

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

Test Procedure

According to KDB 558074 D01 V03 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=10Hz for average detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies $\leq$ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Convert the resultant EIRP level to an equivalent electric field strength using the following

relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

Where:

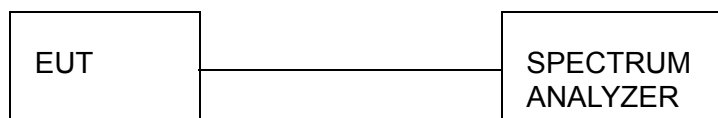
E = electric field strength in dBuV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

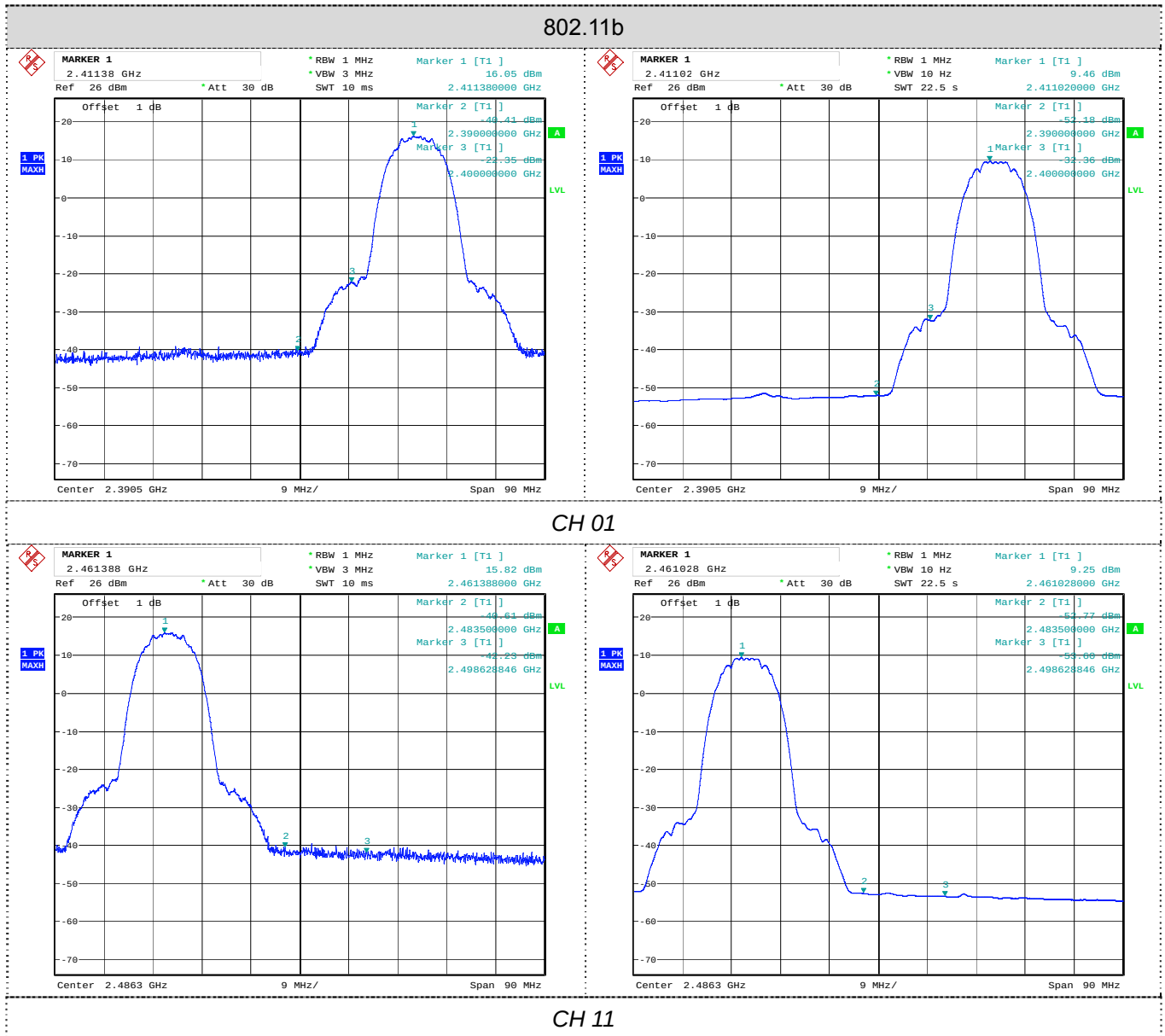
Compare the resultant electric field strength level to the applicable regulatory limit. Perform radiated spurious emission test

Test Configuration

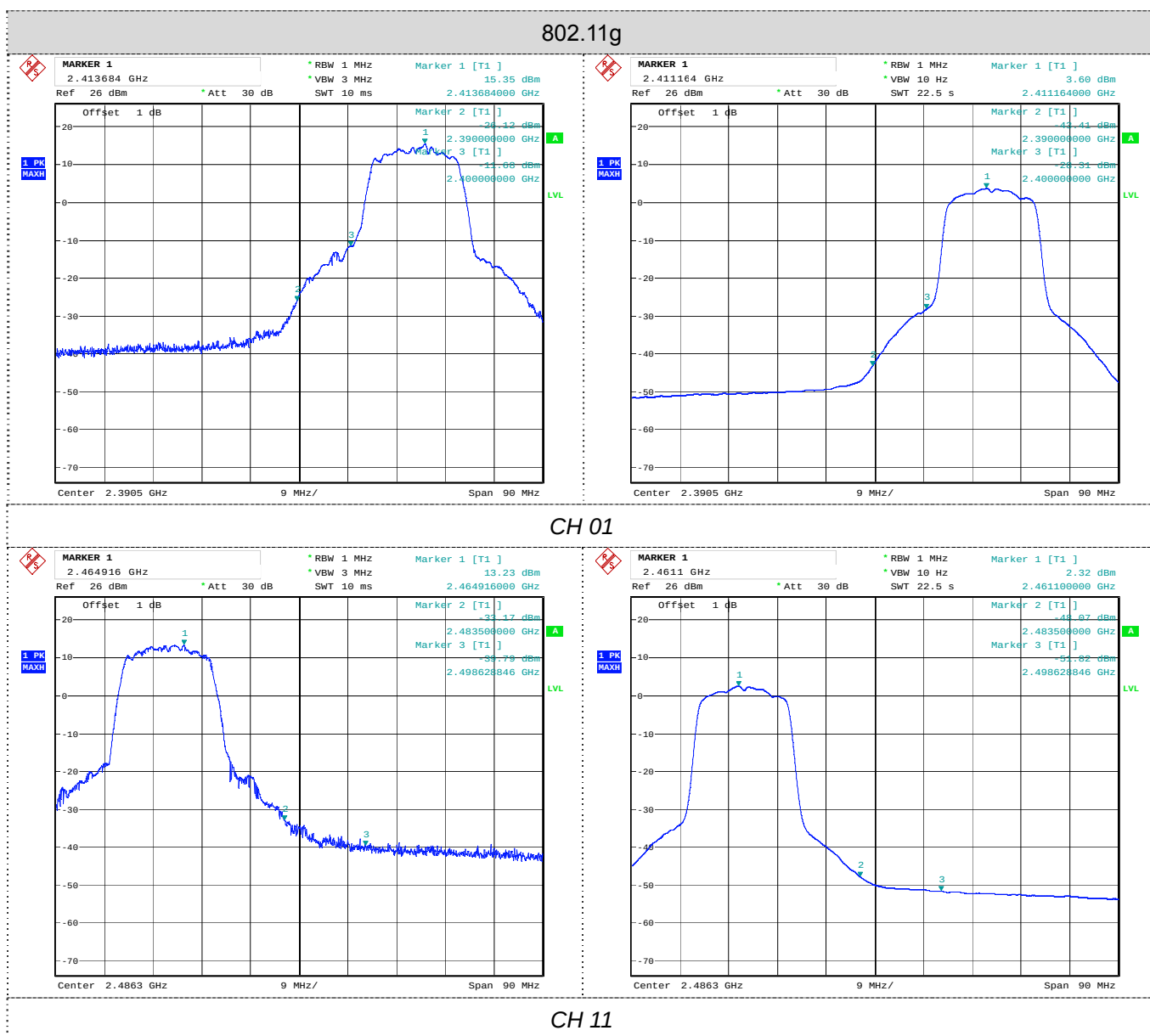


Test Results

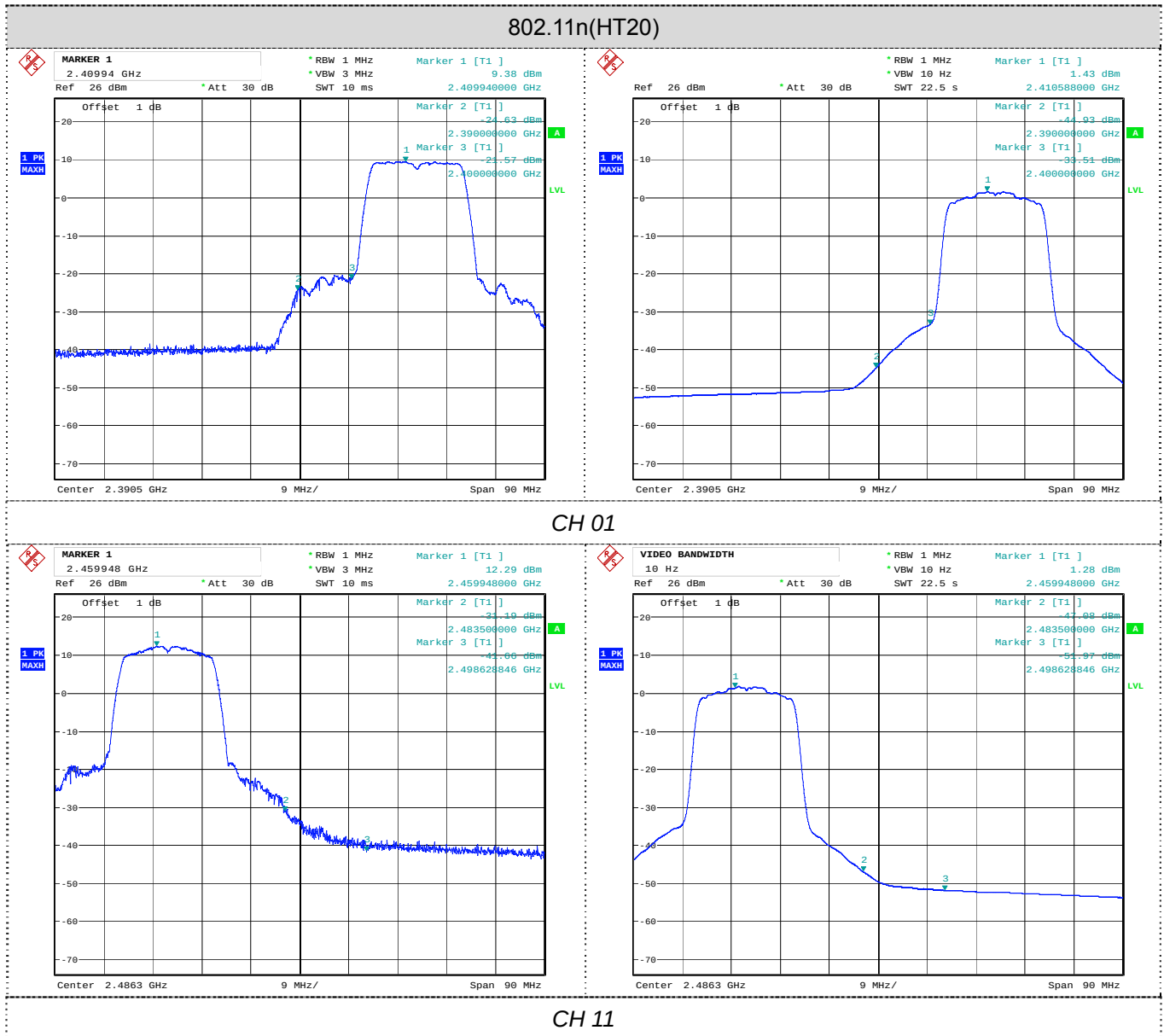
802.11b						
Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground reflection factor(dBi)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
2390.00	-40.41	1.22	0	56.85	PK	74.00
2390.00	-52.18	1.22	0	45.08	AV	54.00
2483.50	-40.61	1.22	0	56.65	PK	74.00
2483.50	-52.77	1.22	0	44.49	AV	54.00



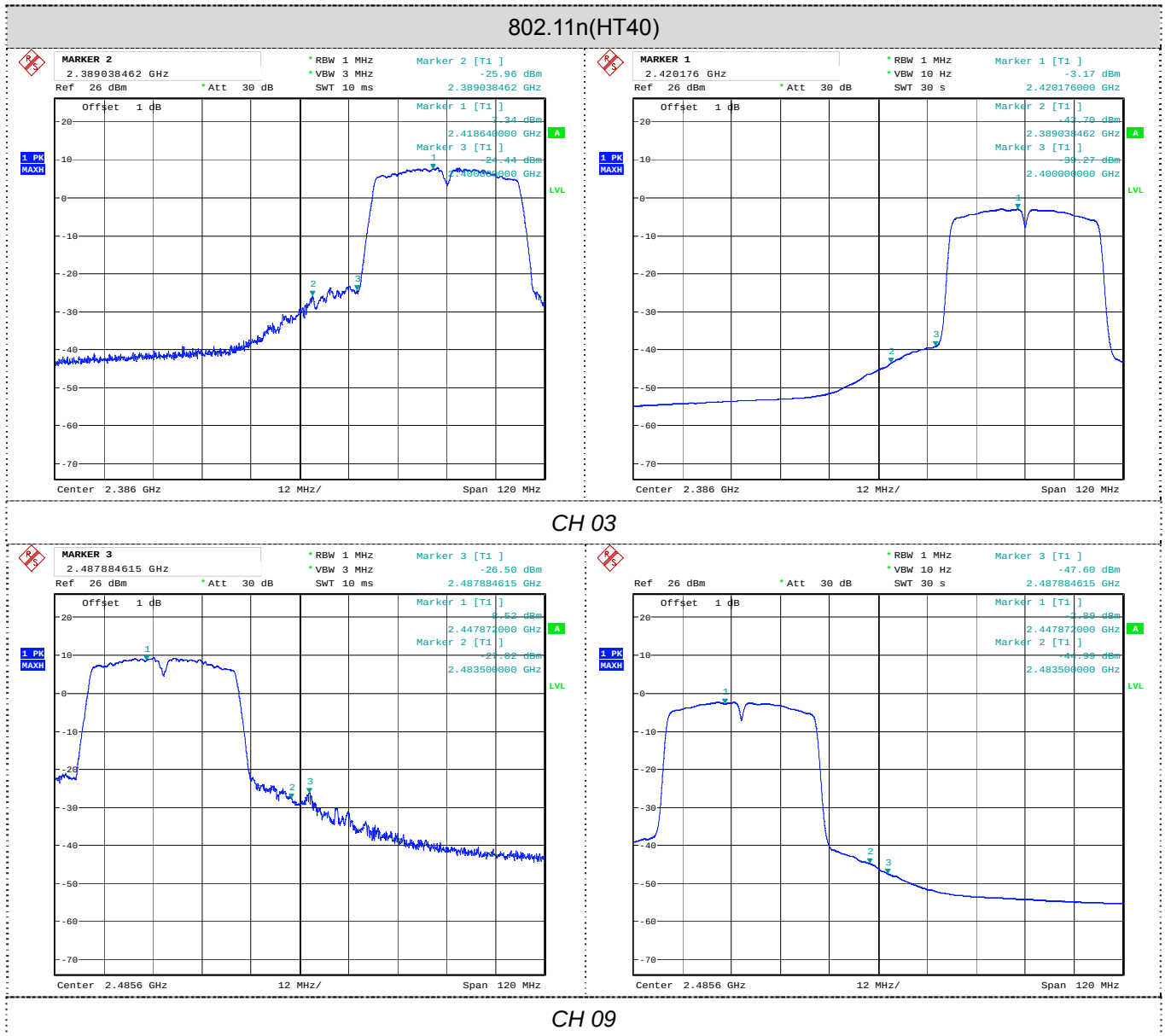
802.11g						
Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground reflection factor(dBi)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
2390.00	-26.12	1.22	0	71.14	PK	74.00
2390.00	-43.41	1.22	0	53.85	AV	54.00
2483.50	-33.17	1.22	0	64.09	PK	74.00
2483.50	-48.07	1.22	0	49.19	AV	54.00



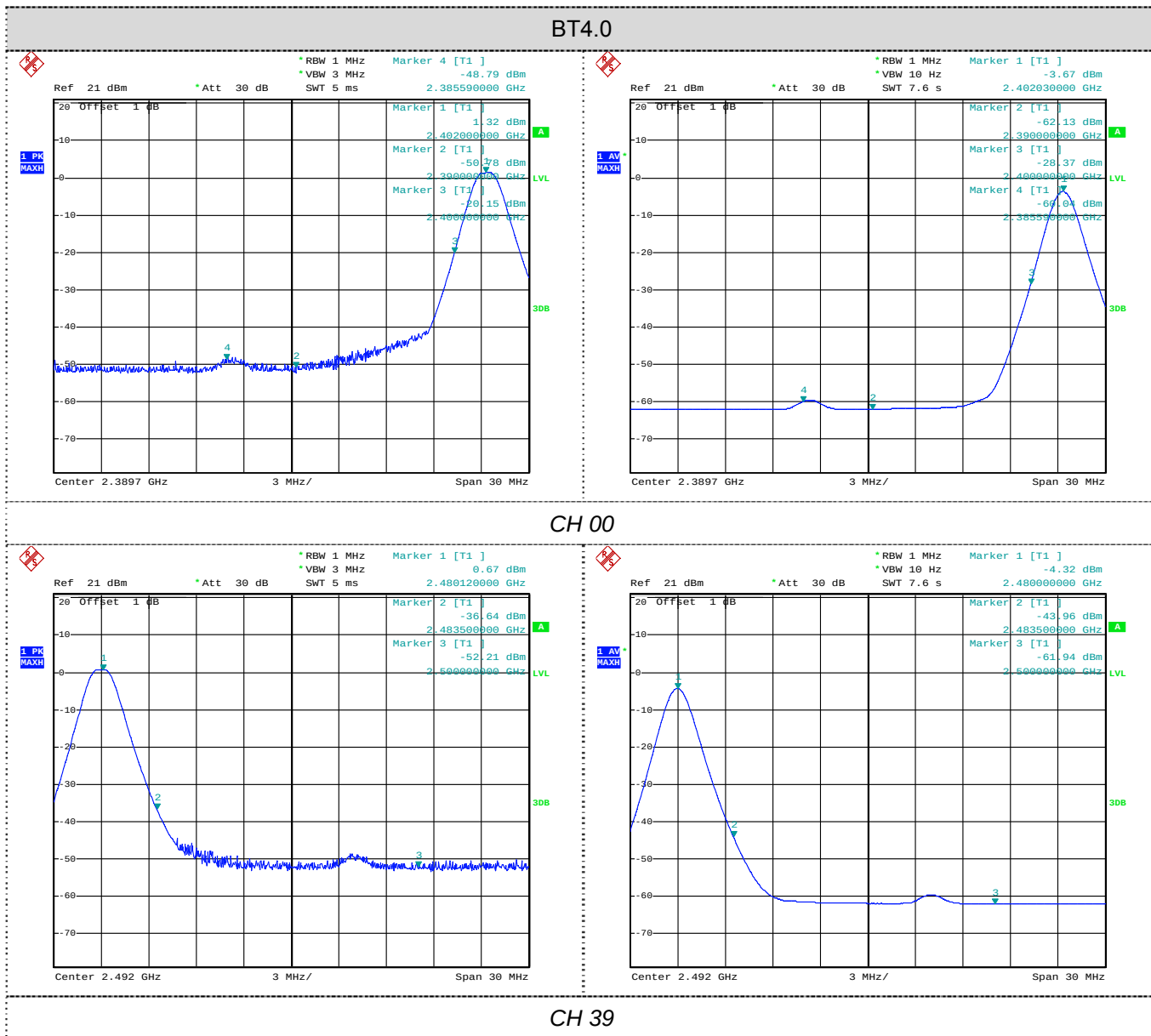
802.11n(HT20)						
Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground reflection factor(dBi)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
2390.00	-24.63	1.22	0	72.63	PK	74.00
2390.00	-44.93	1.22	0	52.33	AV	54.00
2483.50	-31.19	1.22	0	66.07	PK	74.00
2483.50	-47.08	1.22	0	50.18	AV	54.00



802.11n(HT40)						
Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground reflection factor(dBi)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
2389.04	-25.96	1.22	0	71.30	PK	74.00
2389.04	-43.70	1.22	0	53.56	AV	54.00
2487.88	-26.50	1.22	0	70.76	PK	74.00
2487.88	-47.60	1.22	0	49.66	AV	54.00



BT4.0						
Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground reflection factor(dBi)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
2390.00	-50.78	1.22	0	46.48	PK	74.00
2390.00	-62.13	1.22	0	35.13	AV	54.00
2483.50	-36.64	1.22	0	60.62	PK	74.00
2483.50	-43.96	1.22	0	53.30	AV	54.00



3.7. Spurious RF Conducted Emission

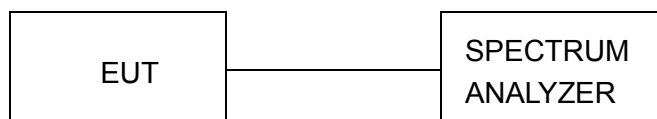
Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100 kHz and VBM= 300 KHz to measure the peak field strength, and measured frequency range from 30MHz to 26.5GHz.

Test Configuration



Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

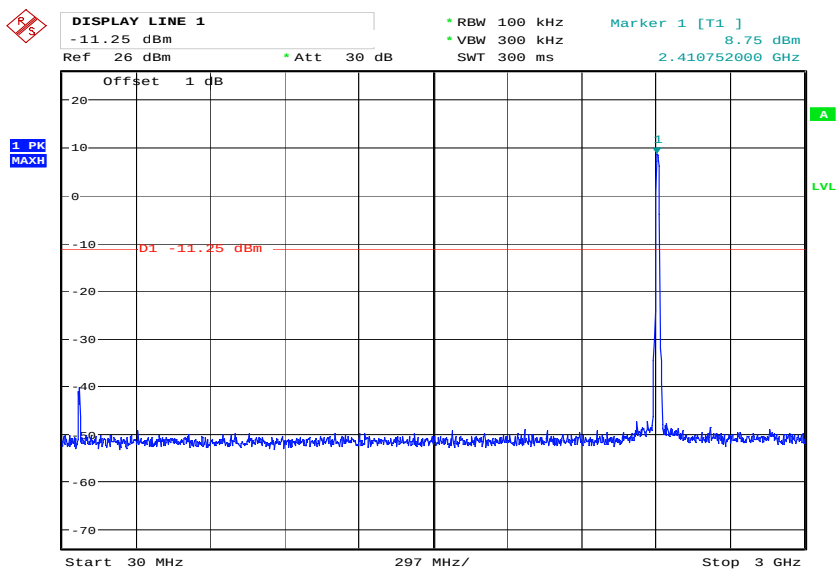
Test plot as follows:

Test Mode:

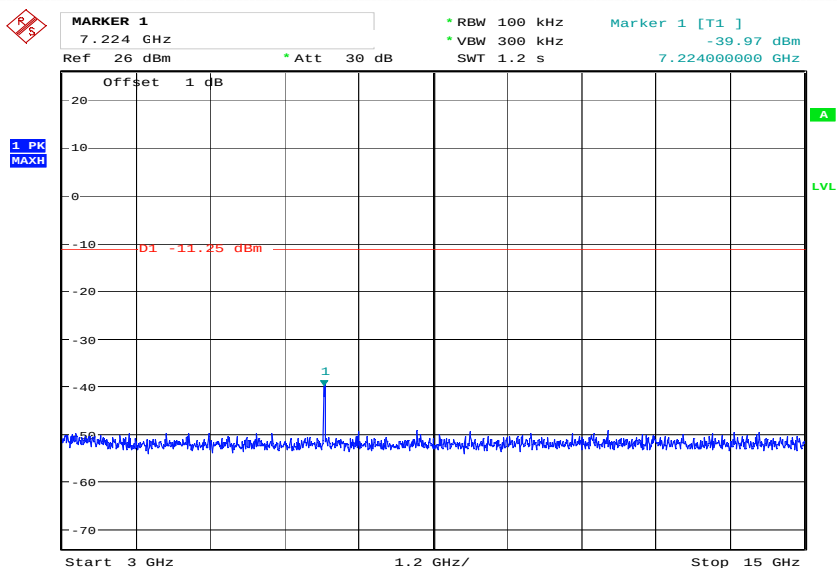
802.11b

Test channel :

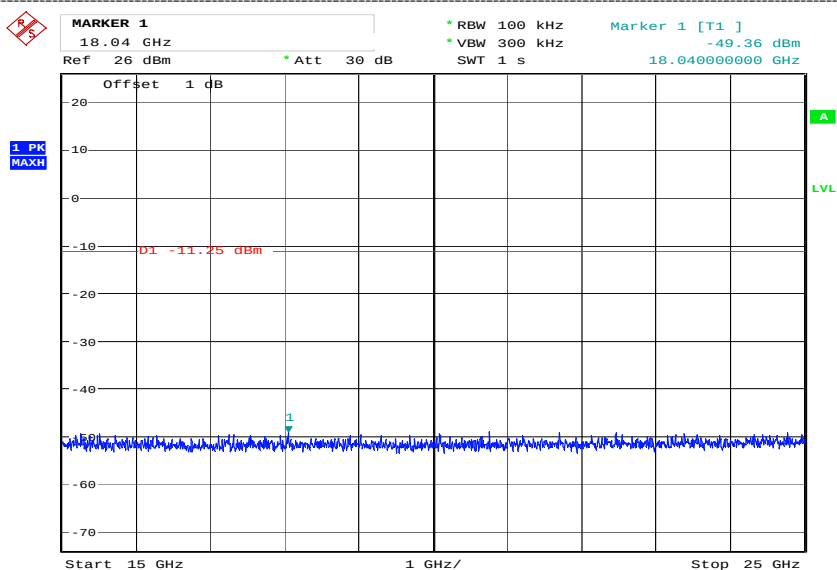
01



30MHz~3GHz



3GHz~15GHz



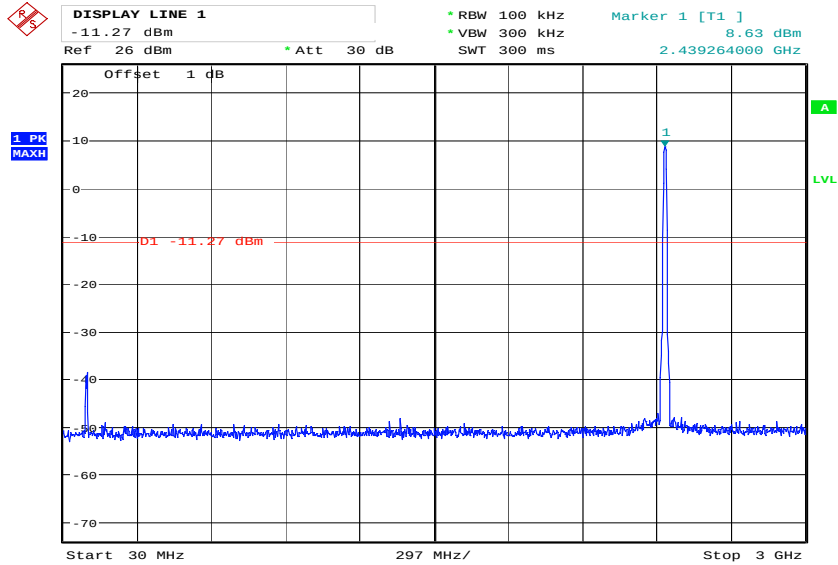
15GHz~25GHz

Test Mode:

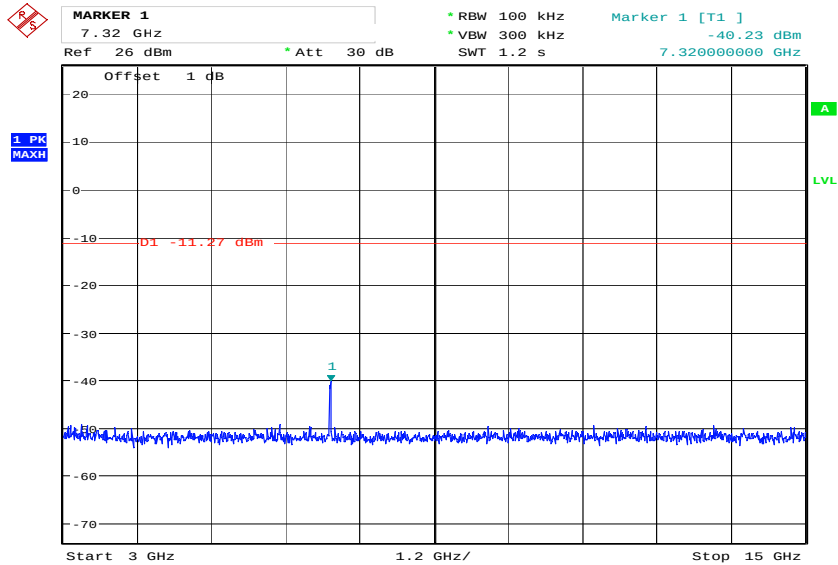
802.11b

Test channel :

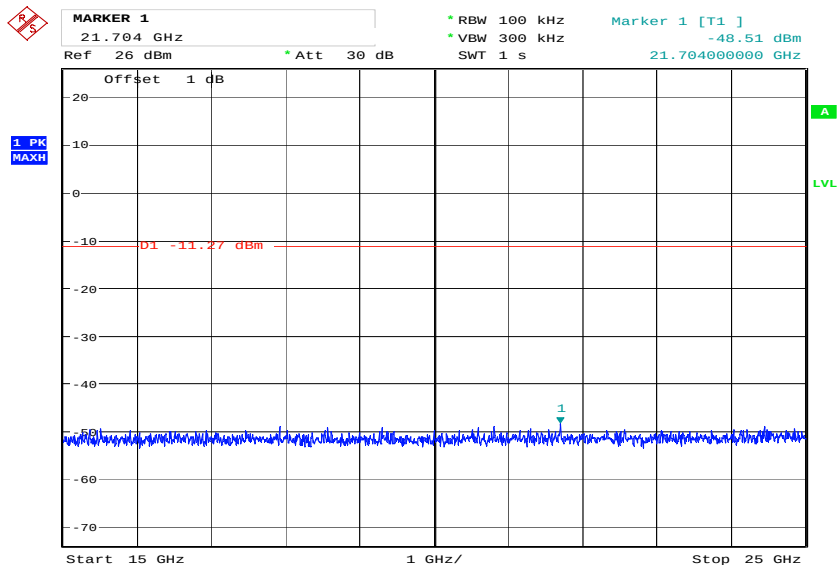
06



30MHz~3GHz



3GHz~15GHz



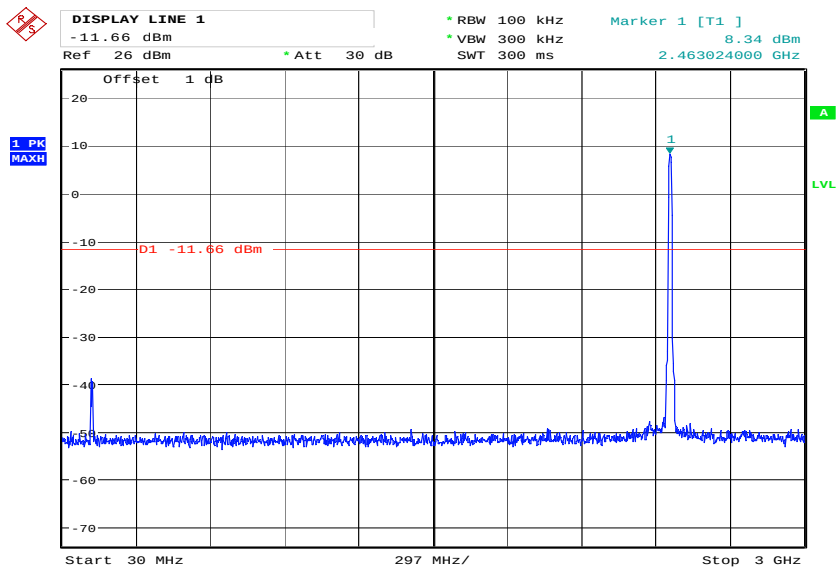
15GHz~25GHz

Test Mode:

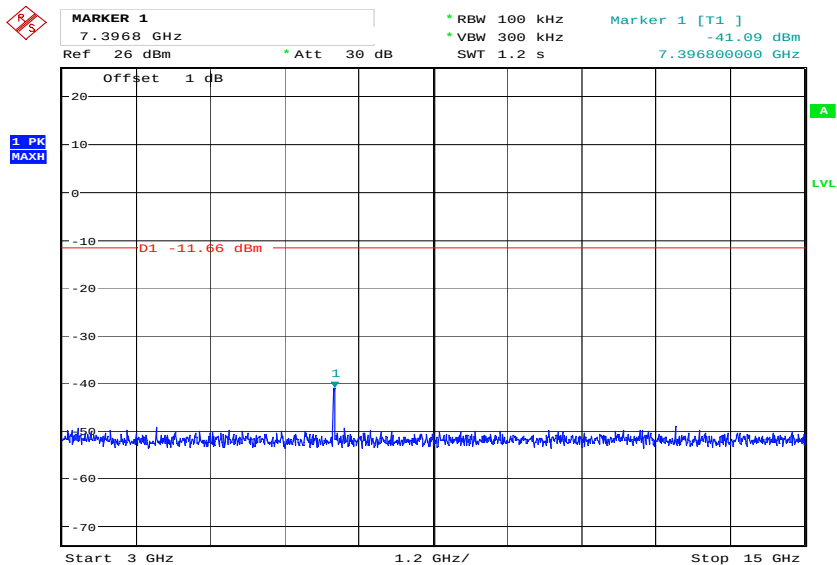
802.11b

Test channel :

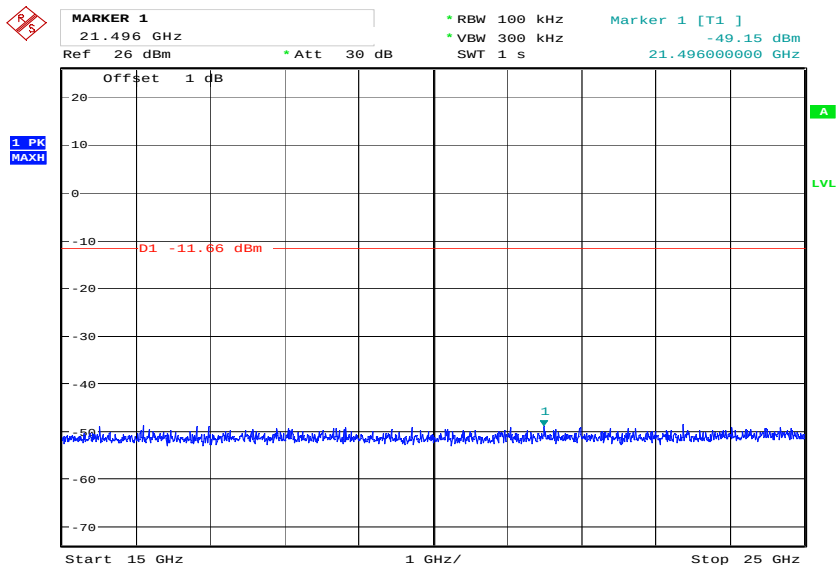
11



30MHz~3GHz



3GHz~15GHz



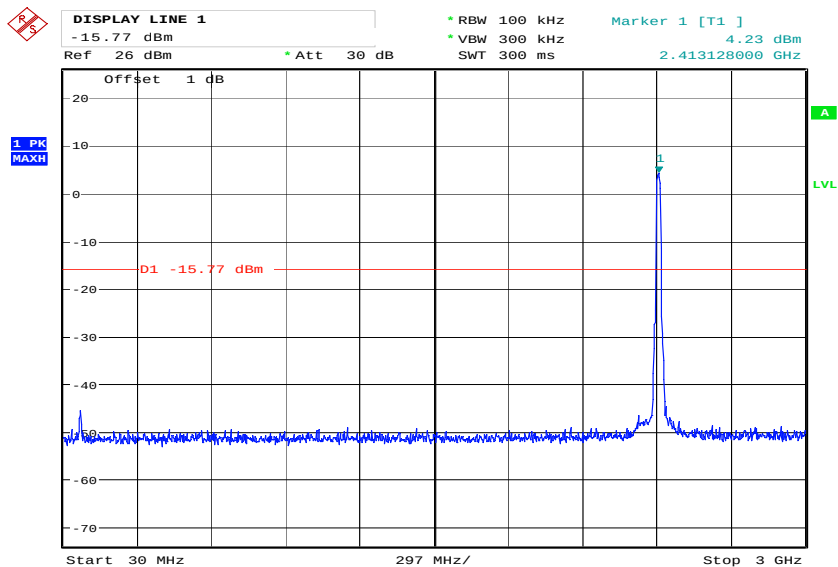
15GHz~25GHz

Test Mode:

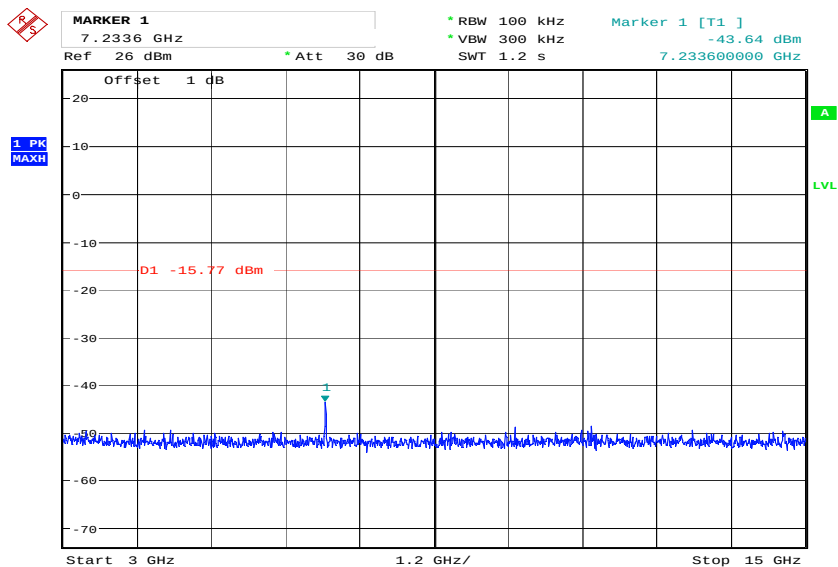
802.11g

Test channel :

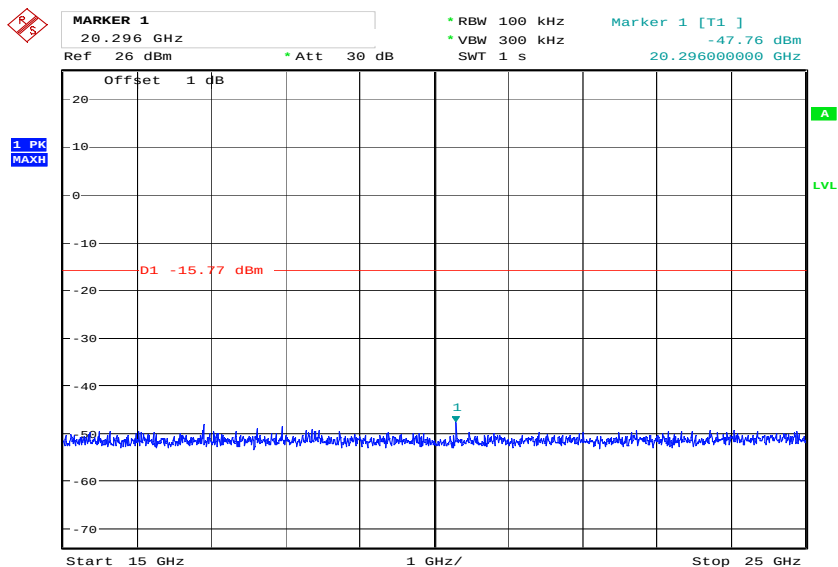
01



30MHz~3GHz



3GHz~15GHz



15GHz~25GHz

Test Mode:

802.11g

Test channel :

06



DISPLAY LINE 1

-16.32 dBm

Ref 26 dBm

* Att 30 dB

* RBW 100 kHz

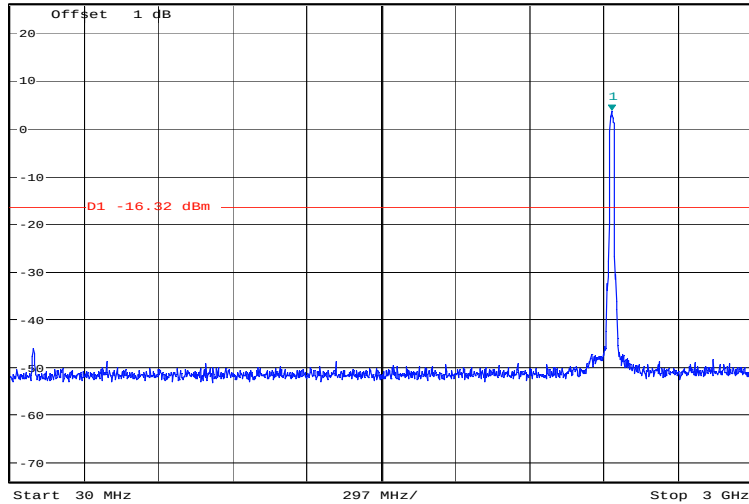
* VBW 300 kHz

SWT 300 ms

Marker 1 [T1]

3.68 dBm

2.436888000 GHz

1 PK
MAXH


30MHz~3GHz



MARKER 1

7.3008 GHz

Ref 26 dBm

* Att 30 dB

* RBW 100 kHz

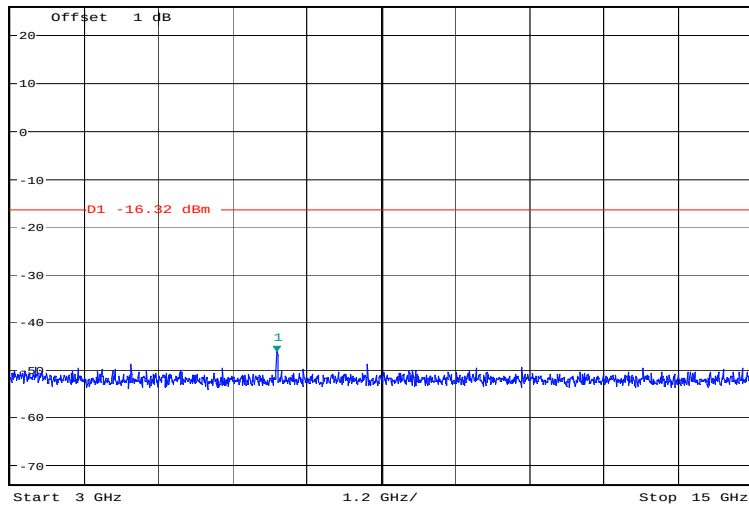
* VBW 300 kHz

SWT 1.2 s

Marker 1 [T1]

-46.29 dBm

7.300800000 GHz

1 PK
MAXH


3GHz~15GHz



MARKER 1

16.168 GHz

Ref 26 dBm

* Att 30 dB

* RBW 100 kHz

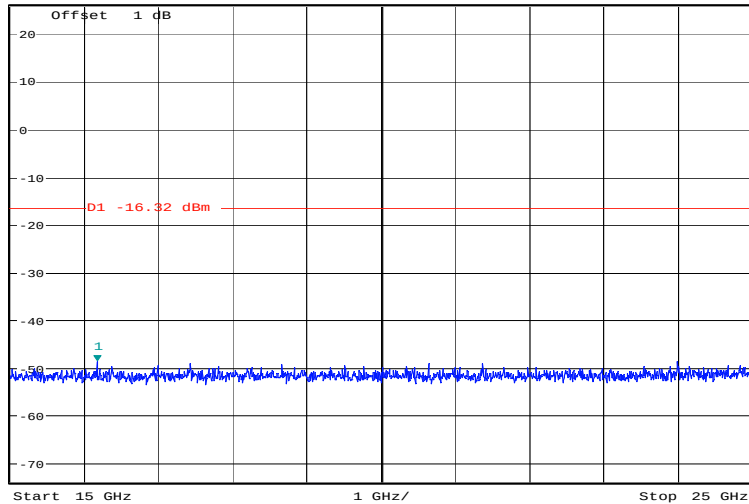
* VBW 300 kHz

SWT 1 s

Marker 1 [T1]

-48.64 dBm

16.168000000 GHz

1 PK
MAXH


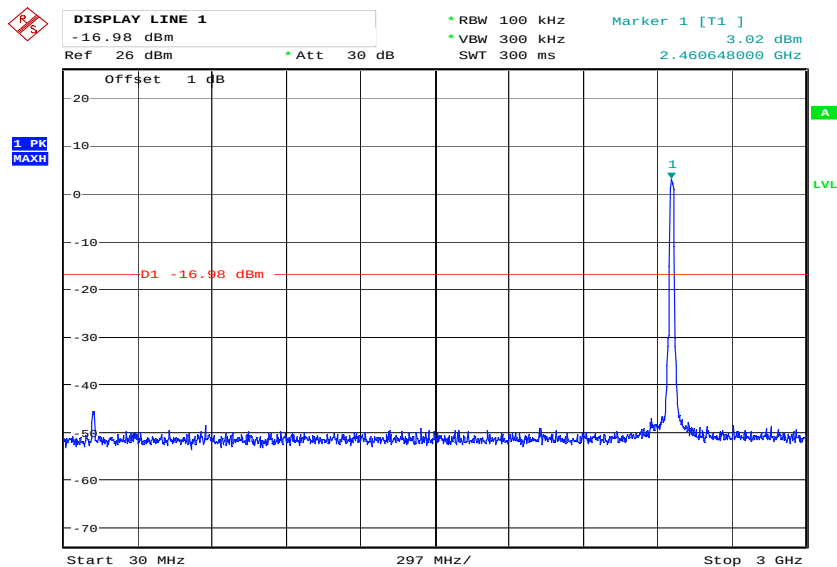
15GHz~25GHz

Test Mode:

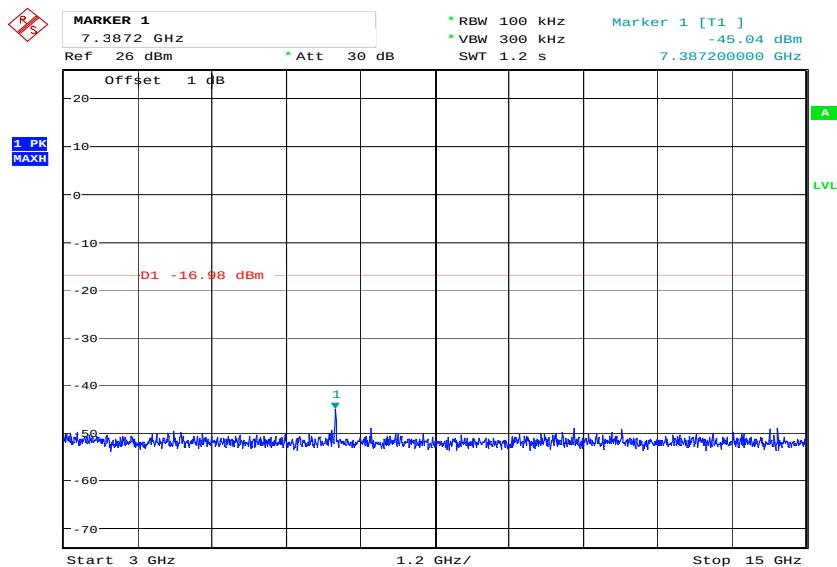
802.11g

Test channel :

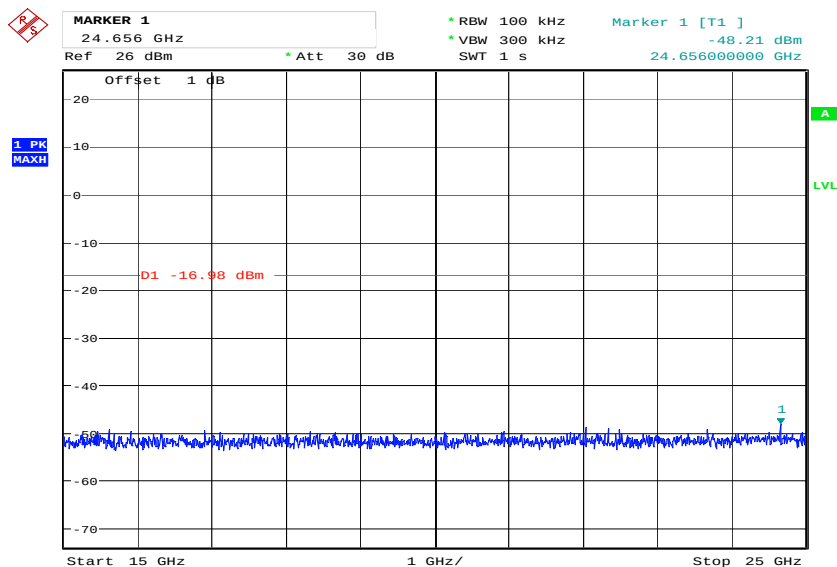
11



30MHz~3GHz



3GHz~15GHz



15GHz~25GHz

Test Mode:

802.11n(HT20)

Test channel :

01



DISPLAY LINE 1

-17.5 dBm

Ref 26 dBm

Att 30 dB

RBW 100 kHz

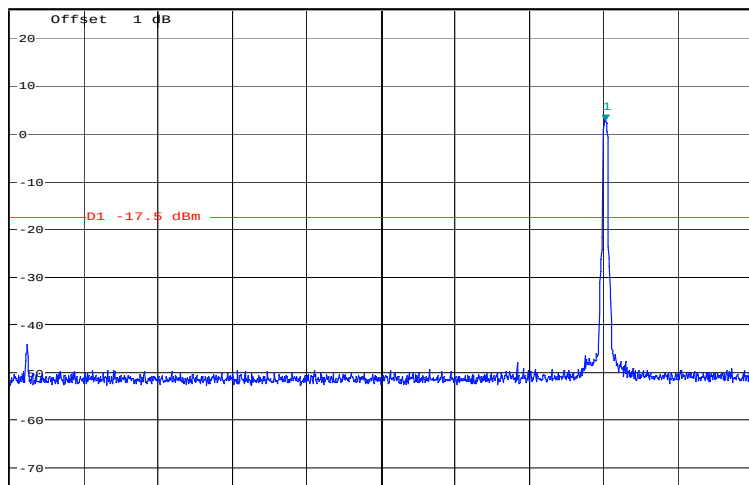
VBW 300 kHz

SWT 300 ms

Marker 1 [T1]

2.50 dBm

2.415504000 GHz

1 PK
MAXH


Start 30 MHz

297 MHz/

Stop 3 GHz

30MHz~3GHz



MARKER 1

7.2336 GHz

Ref 26 dBm

Att 30 dB

RBW 100 kHz

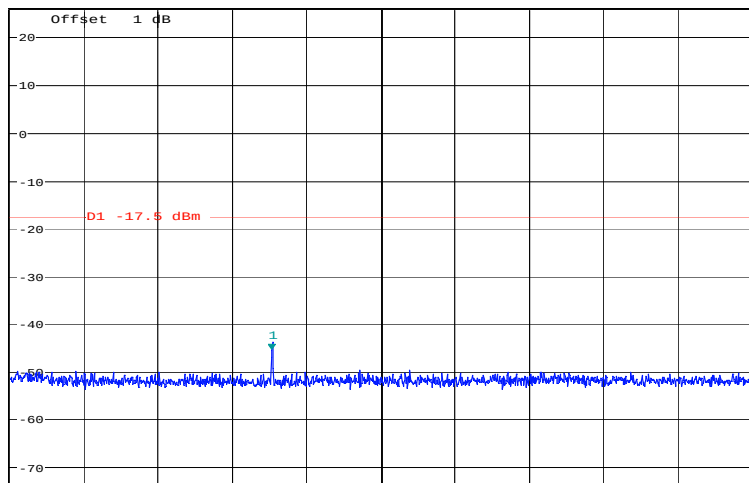
VBW 300 kHz

SWT 1.2 s

Marker 1 [T1]

-45.59 dBm

7.233600000 GHz

1 PK
MAXH


Start 3 GHz

1.2 GHz/

Stop 15 GHz

3GHz~15GHz



MARKER 1

16.32 GHz

Ref 26 dBm

Att 30 dB

RBW 100 kHz

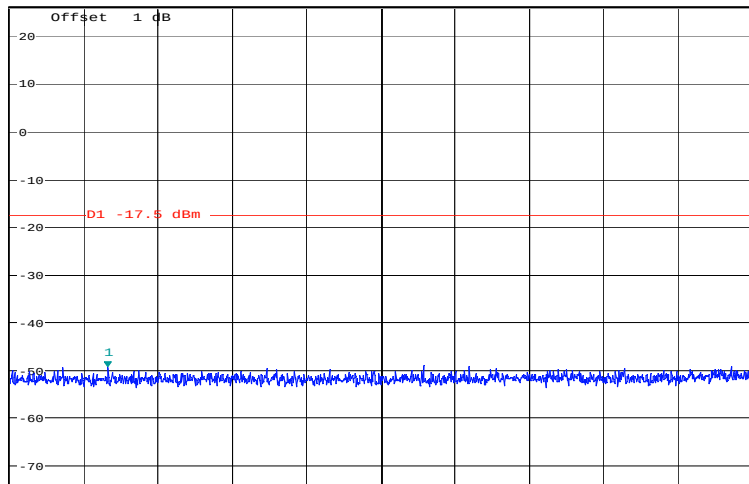
VBW 300 kHz

SWT 1 s

Marker 1 [T1]

-49.48 dBm

16.320000000 GHz

1 PK
MAXH


Start 15 GHz

1 GHz/

Stop 25 GHz

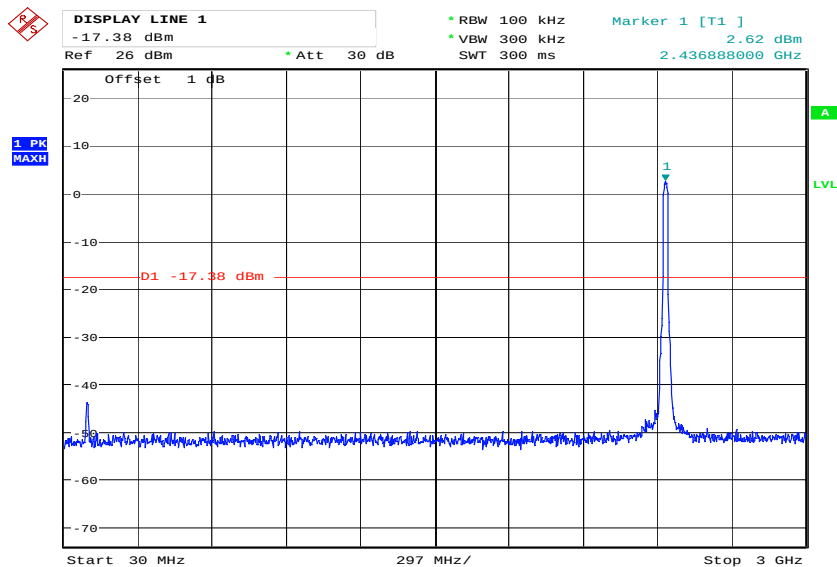
15GHz~25GHz

Test Mode:

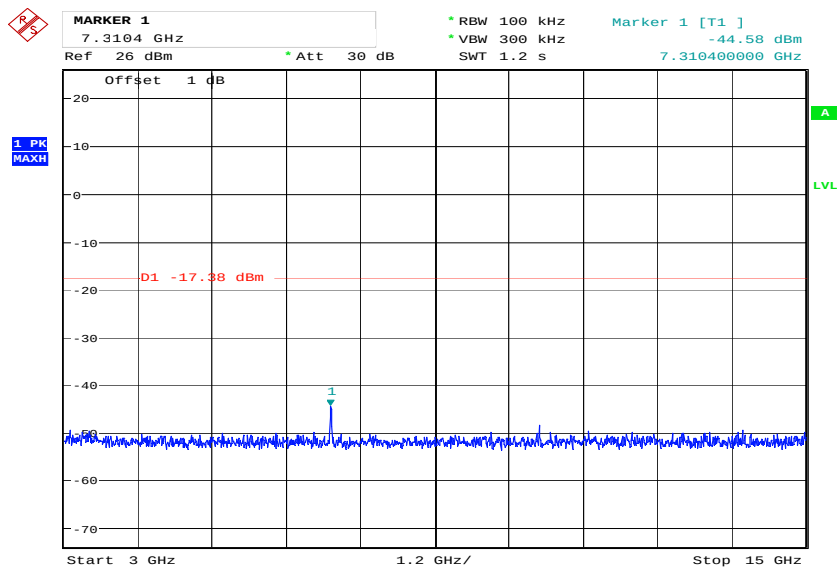
802.11n(HT20)

Test channel :

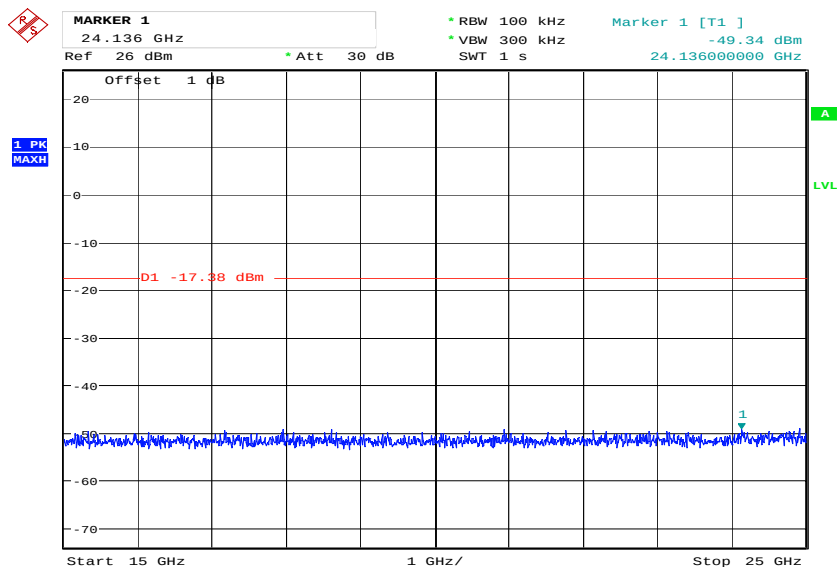
06



30MHz~3GHz



3GHz~15GHz



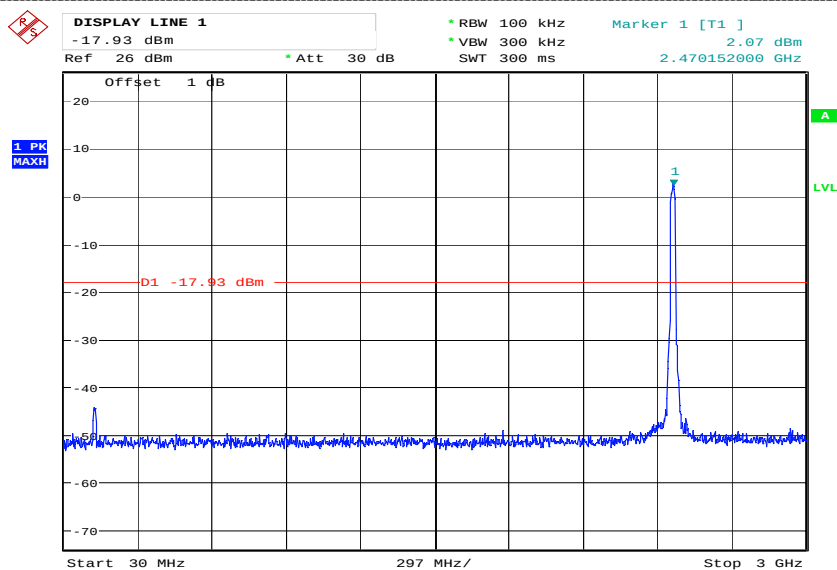
15GHz~25GHz

Test Mode:

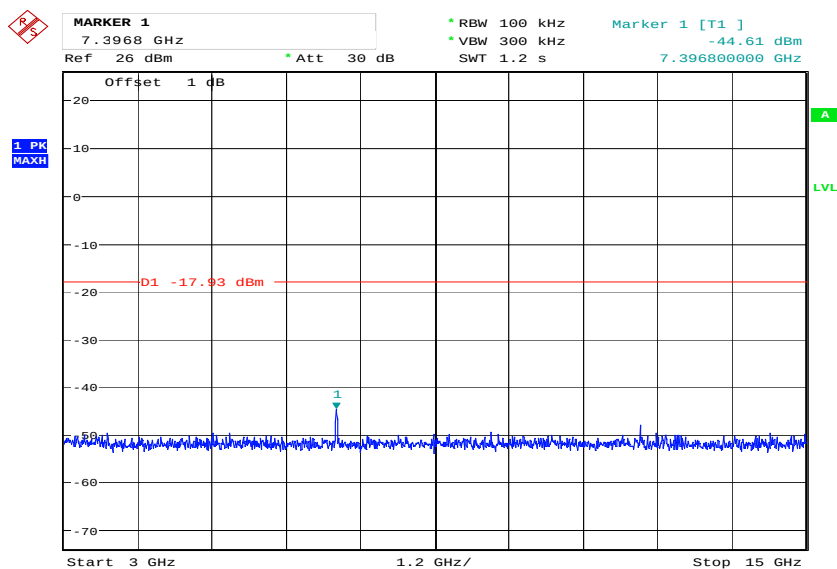
802.11n(HT20)

Test channel :

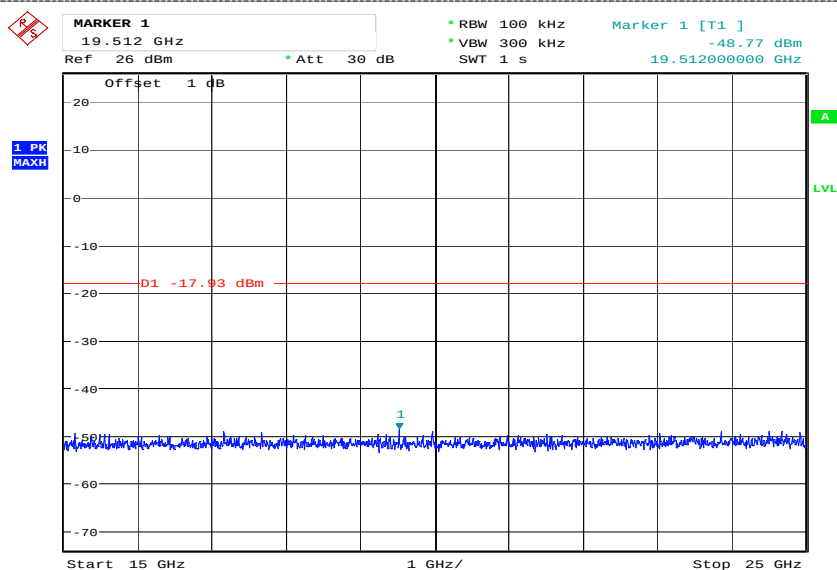
11



30MHz~3GHz



3GHz~15GHz



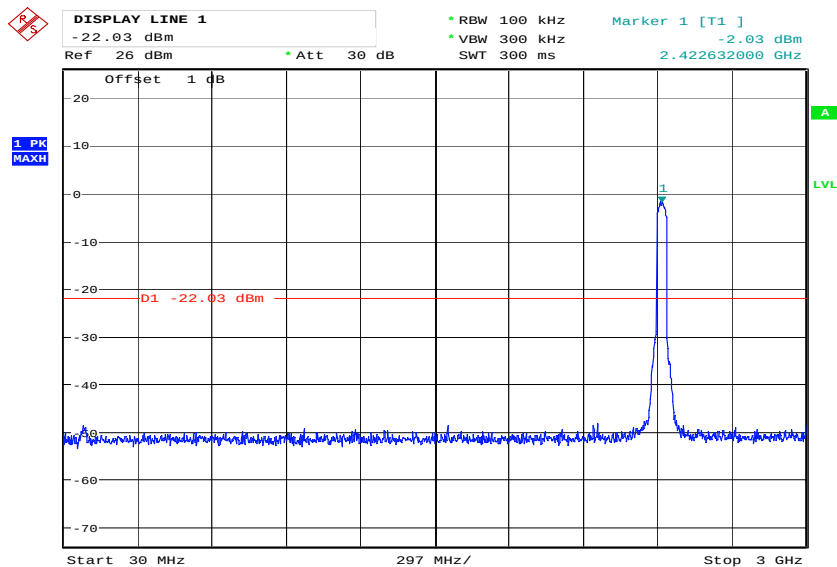
15GHz~25GHz

Test Mode:

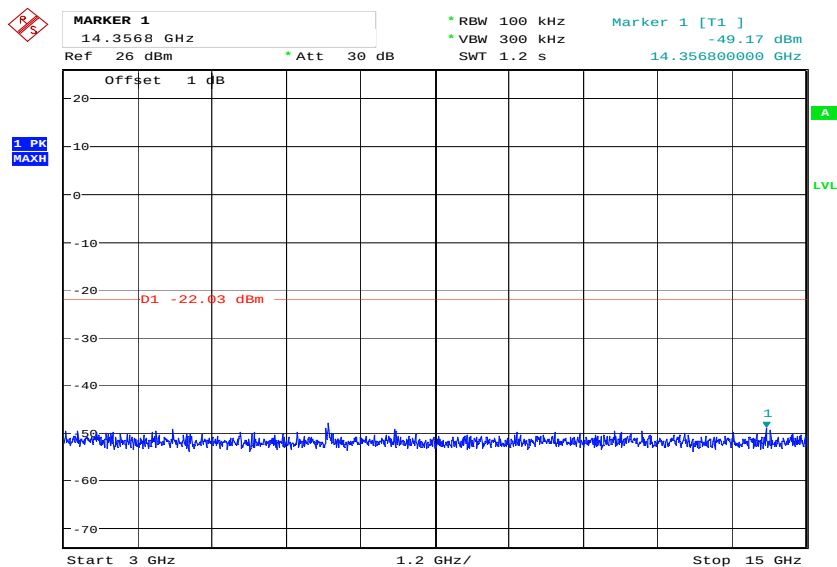
802.11n(HT40)

Test channel :

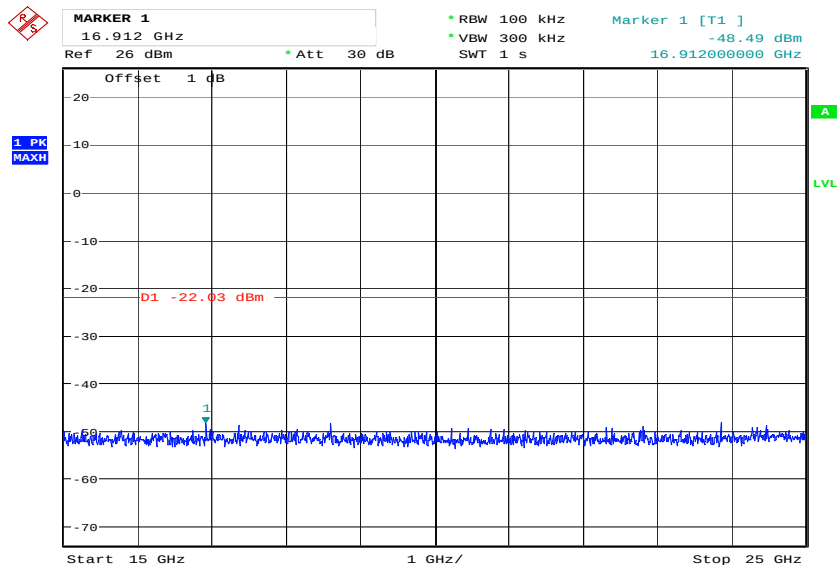
03



30MHz~3GHz



3GHz~15GHz



15GHz~25GHz

Test Mode:

802.11n(HT40)

Test channel :

06



DISPLAY LINE 1

-22.41 dBm

Ref 26 dBm

* Att 30 dB

* RBW 100 kHz

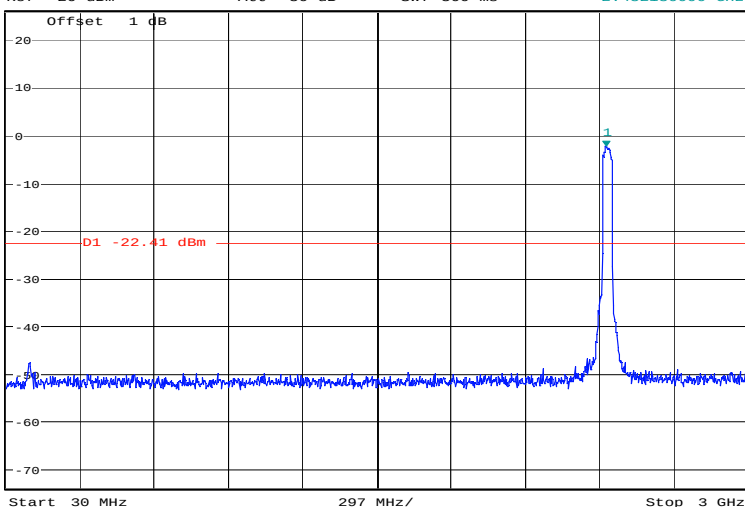
* VBW 300 kHz

SWT 300 ms

Marker 1 [T1]

-2.41 dBm

2.432136000 GHz



Start 30 MHz

297 MHz/

Stop 3 GHz

30MHz~3GHz



MARKER 1

7.3296 GHz

Ref 26 dBm

* Att 30 dB

* RBW 100 kHz

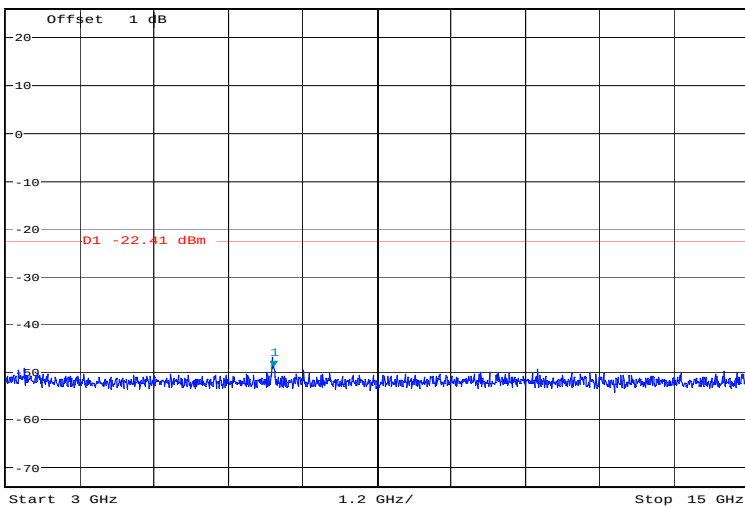
* VBW 300 kHz

SWT 1.2 s

Marker 1 [T1]

-49.08 dBm

7.329600000 GHz



Start 3 GHz

1.2 GHz/

Stop 15 GHz

3GHz~15GHz



MARKER 1

24.256 GHz

Ref 26 dBm

* Att 30 dB

* RBW 100 kHz

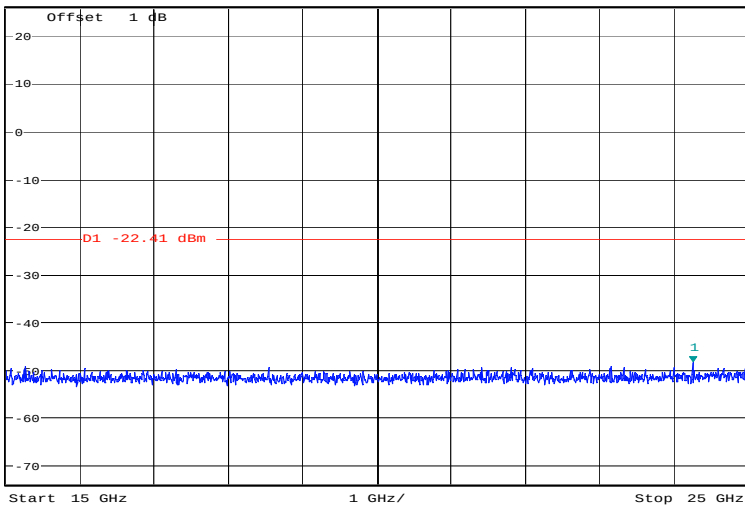
* VBW 300 kHz

SWT 1 s

Marker 1 [T1]

-48.56 dBm

24.256000000 GHz



Start 15 GHz

1 GHz/

Stop 25 GHz

15GHz~25GHz

Test Mode:

802.11n(HT40)

Test channel :

09



DISPLAY LINE 1

-22.45 dBm

Ref 26 dBm

Att 30 dB

RBW 100 kHz

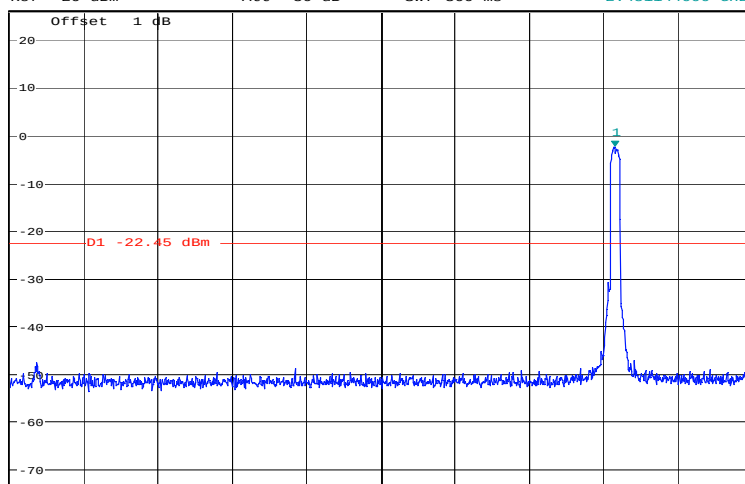
VBW 300 kHz

SWT 300 ms

Marker 1 [T1]

-2.45 dBm

2.451144000 GHz

1 PK
MAXH


Start 30 MHz

297 MHz/

Stop 3 GHz

30MHz~3GHz



MARKER 1

7.3584 GHz

Ref 26 dBm

Att 30 dB

RBW 100 kHz

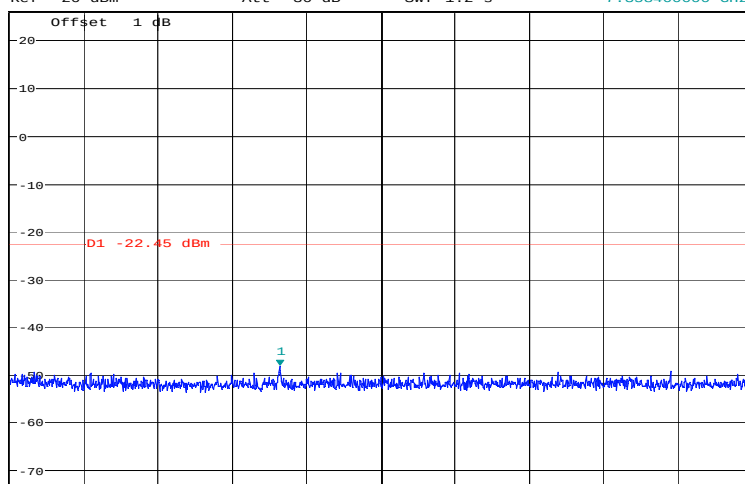
VBW 300 kHz

SWT 1.2 s

Marker 1 [T1]

-48.19 dBm

7.358400000 GHz

1 PK
MAXH


Start 3 GHz

1.2 GHz/

Stop 15 GHz

3GHz~15GHz



MARKER 1

22.92 GHz

Ref 26 dBm

Att 30 dB

RBW 100 kHz

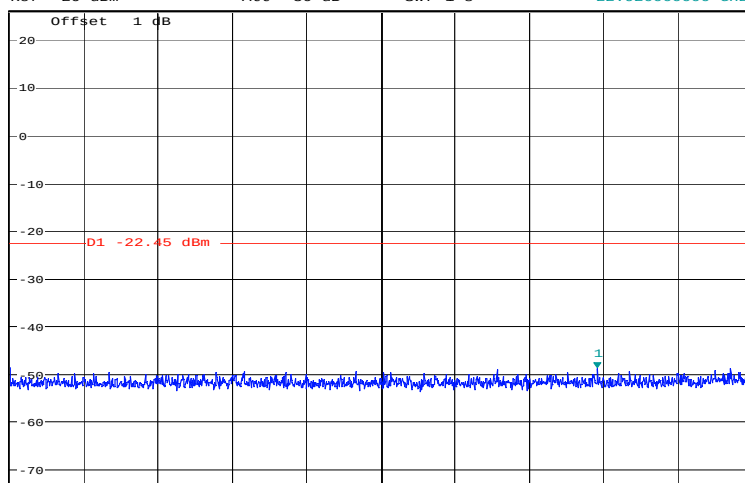
VBW 300 kHz

SWT 1 s

Marker 1 [T1]

-48.83 dBm

22.920000000 GHz

1 PK
MAXH


Start 15 GHz

1 GHz/

Stop 25 GHz

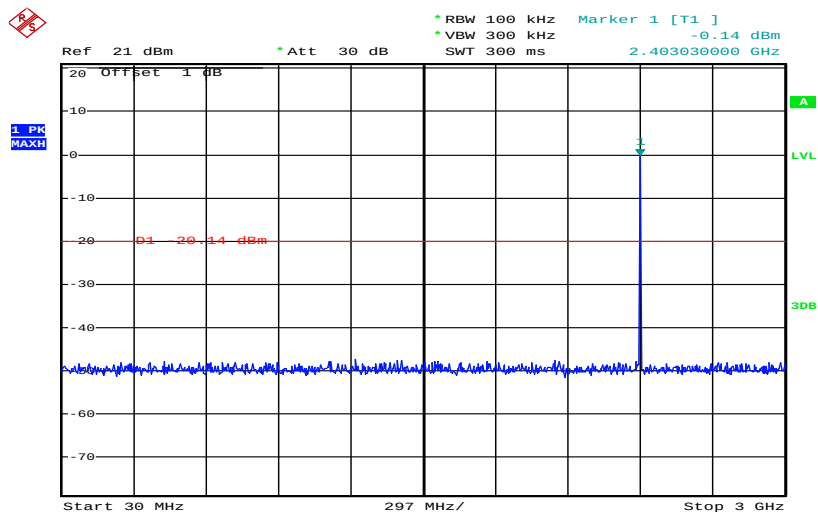
15GHz~25GHz

Test Mode:

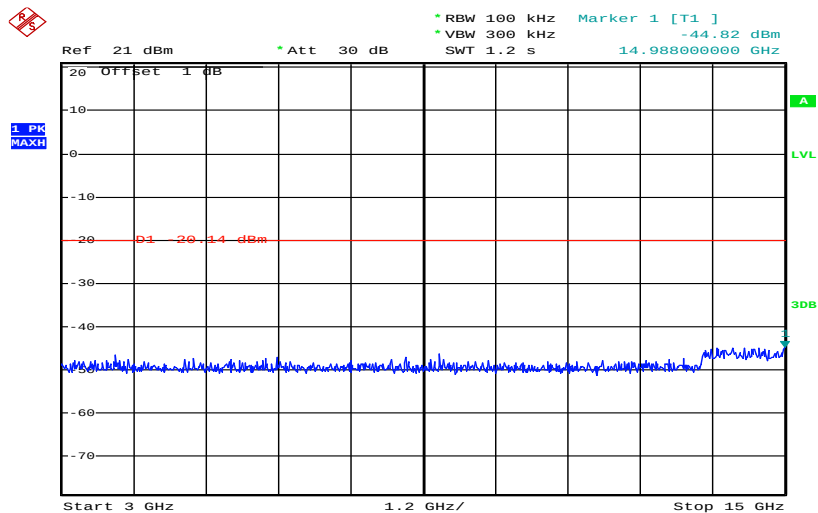
BT4.0

Test channel :

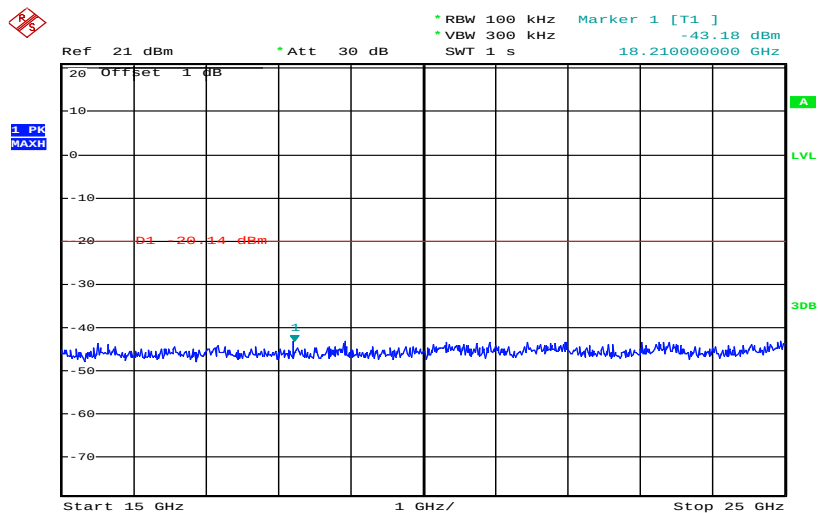
00



30MHz~3GHz



3GHz~15GHz



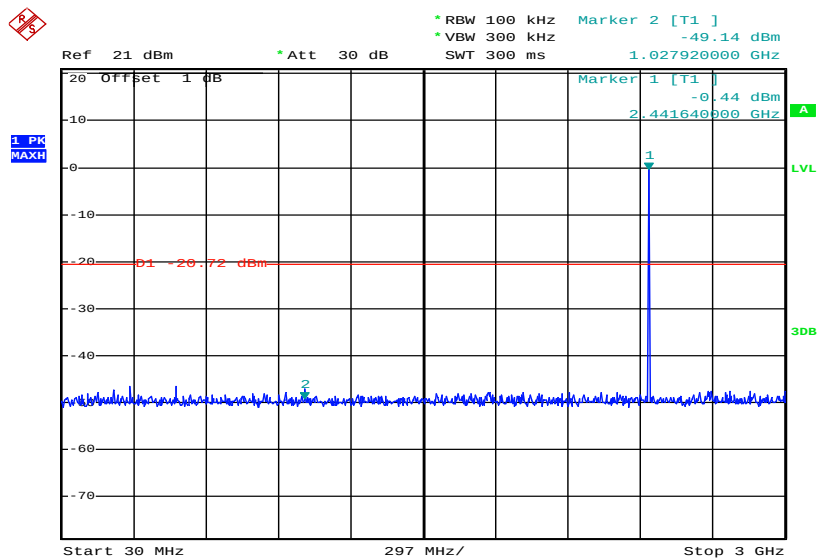
15GHz~25GHz

Test Mode:

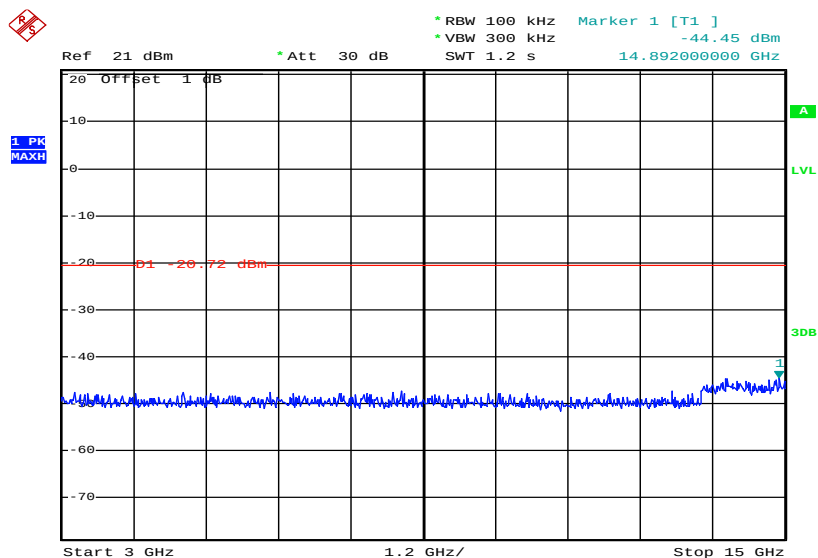
BT4.0

Test channel :

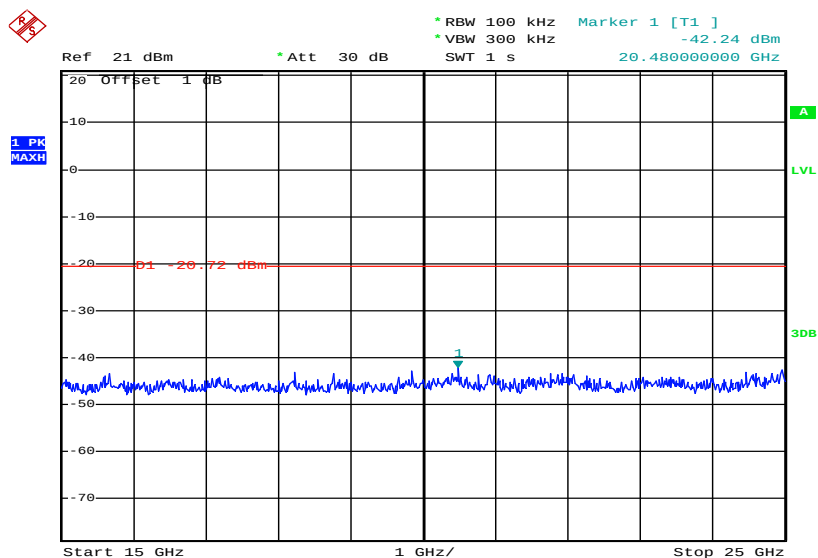
19



30MHz~3GHz



3GHz~15GHz



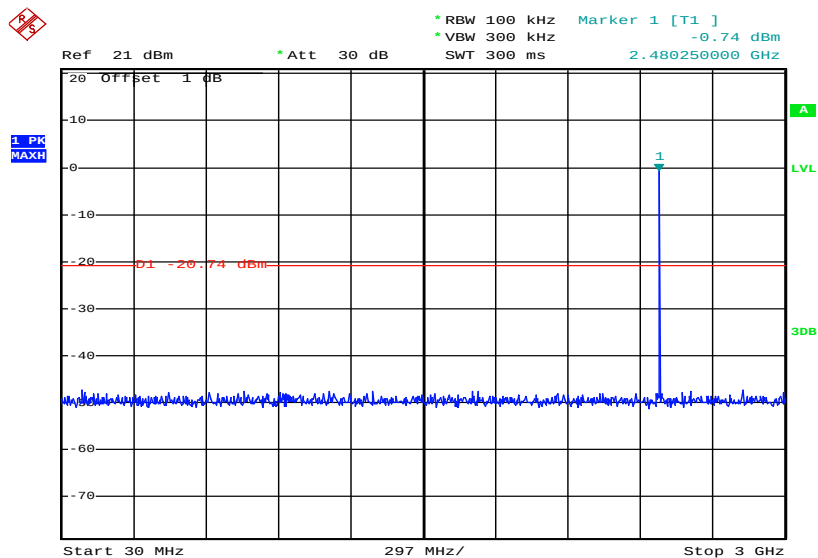
15GHz~25GHz

Test Mode:

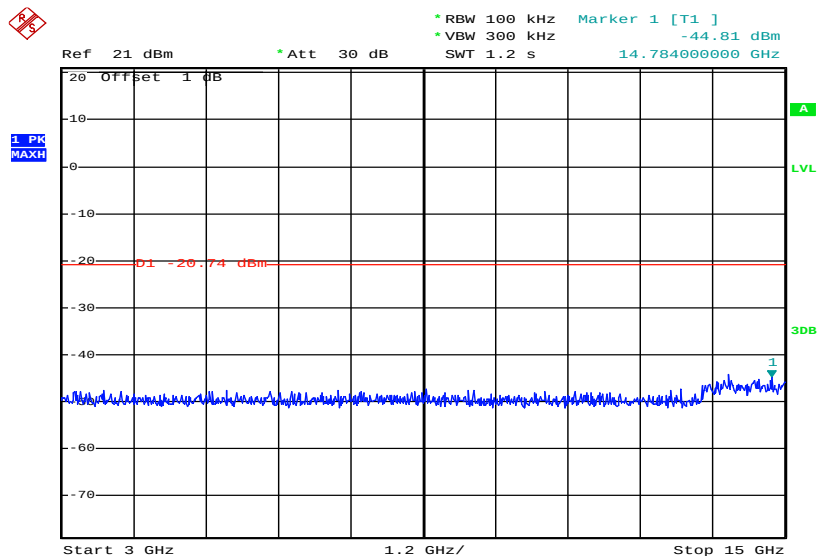
BT4.0

Test channel :

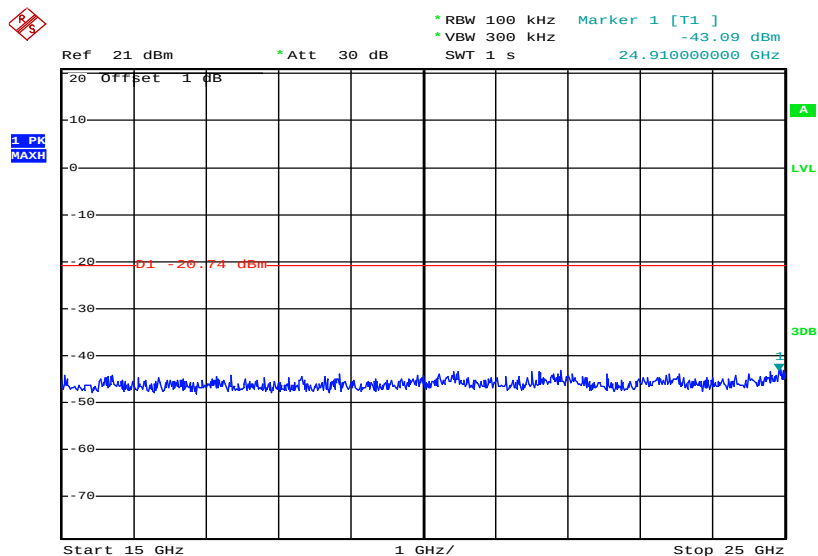
39



30MHz~3GHz



3GHz~15GHz



15GHz~25GHz

3.8. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The maximum gain of WIFI/BT antenna was 1.22dBi.



4. EUT TEST PHOTO

Radiated Emission (30MHz-1GHz)



Radiated Emission (1GHz-25GHz)



Conducted Emission



5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please reference to the test report No.: GTI20140381F-1

*****THE END*****