



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

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Report No.: HKES160300051102
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FCC REPORT

Application No.: HKES1603000511IT
Applicant: Pismo Labs Technology Limited
Product Name: Peplink/ Pepwave/ Pismo Labs wireless product
Model No.(EUT): AP One Enterprise,
Add Model No.: AP One Enterprise DUO, Pismo AC1DUO
FCC ID: U8G-P1AC1DUO
Standards: 47 CFR Part 15, Subpart C (2015)
Date of Receipt: 2016-03-24
Date of Test: 2016-03-24 to 2016-03-28
Date of Issue: 2016-05-17

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

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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		2016-05-17		Original

Authorized for issue by:			
			2016-03-28
Tested By		(Benson Wang) /Project Engineer	Date
			2016-05-17
Prepared By		(Joyce Shi) /Clerk	Date
			2016-05-17
Checked By		(Eric Fu) /Reviewer	Date



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Pismo Labs Technology Limited
Address of Applicant:	FLAT/RM A5, 5/F HK SPINNERS IND BLDG PHASE 6, 481 CASTLE PEAK ROAD, CHEUNG SHA WAN, HONG KONG

5.2 General Description of EUT

Product Name:	Peplink/ Pepwave/ Pismo Labs wireless product
Model No.:	AP One Enterprise
Type of Modulation:	IEEE for 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE for 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Operating Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Number:	IEEE 802.11b/g, IEEE 802.11n(HT20): 13 Channels IEEE 802.11n(HT40): 7 Channels
Channels Step:	Channels with 5MHz step
Antenna Type:	MIMO*3
Antenna Gain:	Max. 3.80dBi
Power Supply:	Powered by POE POE Model: POE31U-1AT INPUT: 100-240V, 0.8A, 50/60Hz OUTPUT: DC 56V, 0.536A PIN 3, 6 DC56V PIN 1, 2 RETURN

Remark:

Model No.: AP One Enterprise, AP One Enterprise DUO, Pismo AC1DUO

Only the model AP One Enterprise was tested, since the circuit design, PCB layout, electrical components used, internal wiring and functions were identical for the above models, only different on model names for the marketing requirement.



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Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	55% RH
Atmospheric Pressure:	1020 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

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

No tests were sub-contracted.



5.6 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab 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.

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

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

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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 No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



5.10 Equipment List

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2015-09-16	2016-09-16
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13



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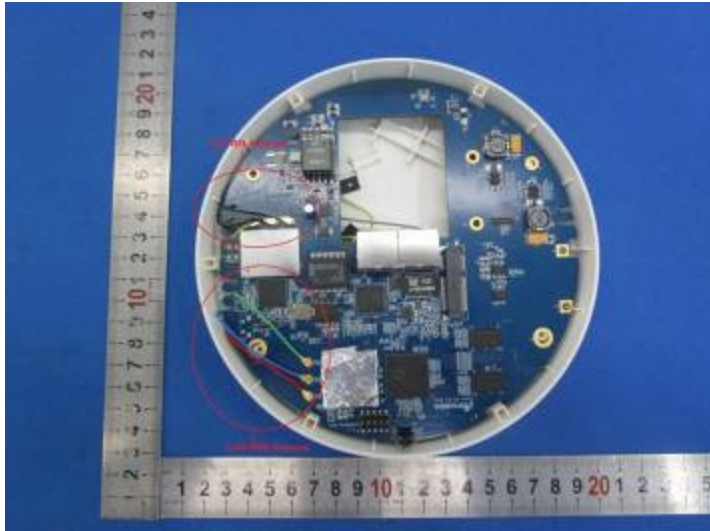
RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2015-10-09	2016-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Low Noise Amplifier	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2015-10-09	2016-10-09
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A

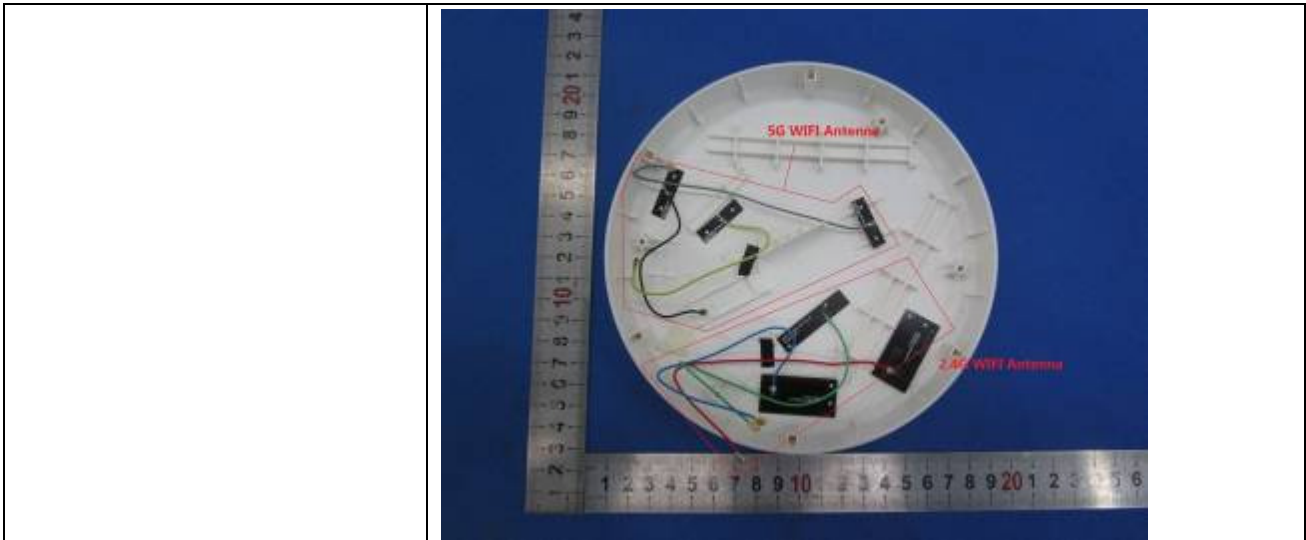
RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17
3	Barometer	ChangChun	DYM3	SEM002-01	2015-05-13	2016-05-13
4	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
5	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09

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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement: 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.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
EUT Antenna:	 <p>The photograph shows a circular electronic unit (EUT) with its antenna assembly. A ruler is placed next to it for scale, indicating the unit is approximately 10 cm in diameter. The antenna assembly is visible through a circular opening in the device's casing.</p>

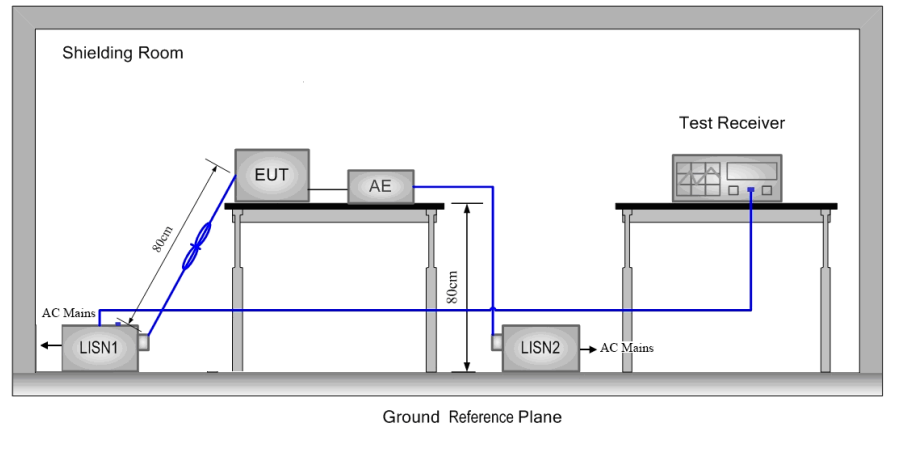


The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 3.80dBi, directional gain is 8.57dBi.



6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013, section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Limit:	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 Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		

<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 1Mbps of rate of 802.11n (HT 40) at lowest channel is the worst case. Transmitting mode. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

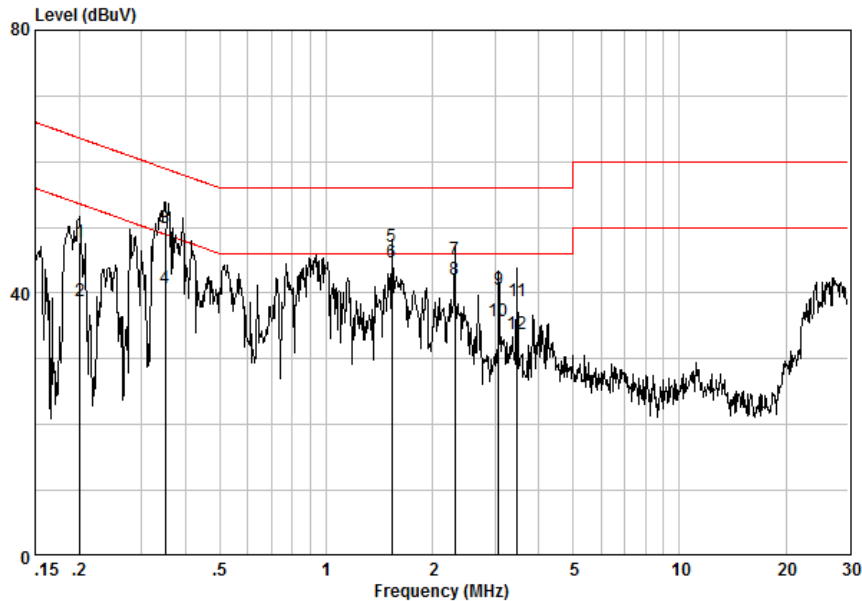


Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



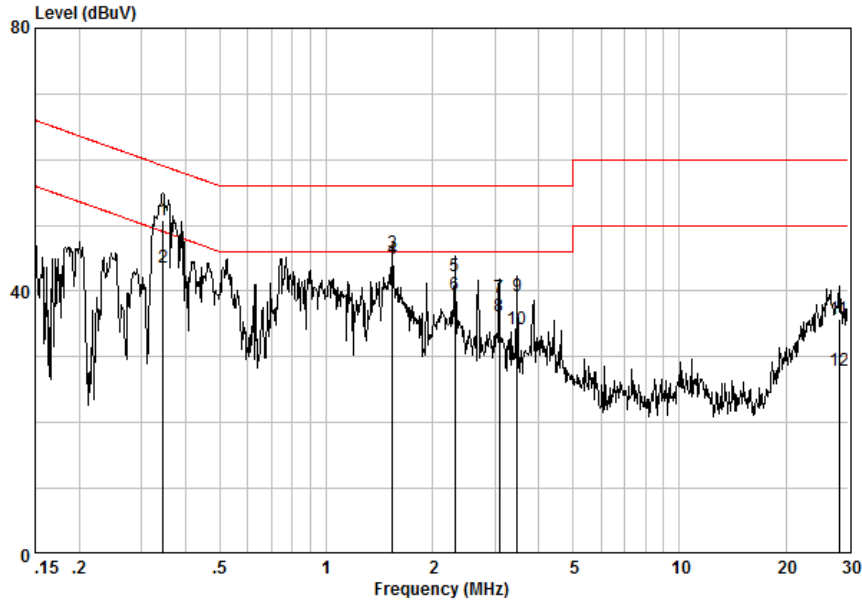
Site : Shielding Room
 Condition : CE LINE
 Job.No : 0511IT
 Test Mode : TX

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.20075	0.02	9.60	38.06	47.68	63.58	-15.90 QP
2	0.20075	0.02	9.60	29.26	38.88	53.58	-14.70 Average
3	0.35015	0.01	9.59	40.27	49.87	58.96	-9.09 QP
4	0.35015	0.01	9.59	31.24	40.84	48.96	-8.12 Average
5	1.535	0.02	9.59	37.55	47.16	56.00	-8.84 QP
6 @	1.535	0.02	9.59	35.18	44.79	46.00	-1.21 Average
7	2.309	0.02	9.63	35.49	45.14	56.00	-10.86 QP
8	2.309	0.02	9.63	32.37	42.02	46.00	-3.98 Average
9	3.074	0.02	9.62	30.83	40.47	56.00	-15.53 QP
10	3.074	0.02	9.62	26.12	35.76	46.00	-10.24 Average
11	3.472	0.02	9.63	29.26	38.90	56.00	-17.10 QP
12	3.472	0.02	9.63	24.25	33.89	46.00	-12.11 Average

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Neutral Line:



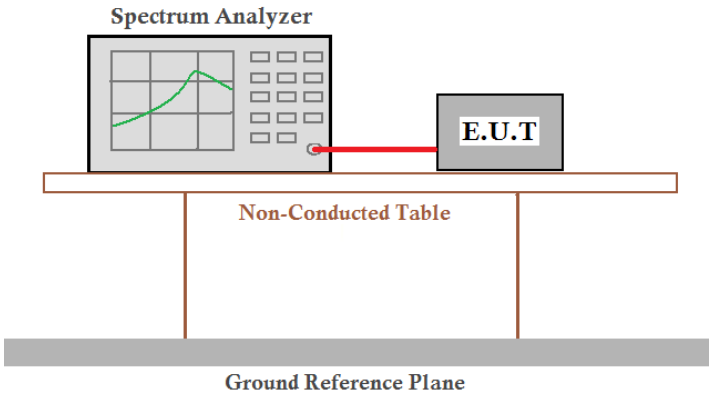
Site : Shielding Room
Condition : CE NEUTRAL
Job.No : 0511IT
Test Mode : TX

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.34463	0.01	9.62	41.23	50.86	59.09	-8.23	QP
2	0.34463	0.01	9.62	33.91	43.54	49.09	-5.55	Average
3	1.544	0.02	9.64	36.14	45.80	56.00	-10.20	QP
4 @	1.544	0.02	9.64	35.14	44.80	46.00	-1.20	Average
5	2.309	0.02	9.67	32.71	42.40	56.00	-13.60	QP
6	2.309	0.02	9.67	29.70	39.39	46.00	-6.61	Average
7	3.090	0.02	9.67	29.24	38.93	56.00	-17.07	QP
8	3.090	0.02	9.67	26.43	36.12	46.00	-9.88	Average
9	3.472	0.02	9.68	29.54	39.23	56.00	-16.77	QP
10	3.472	0.02	9.68	24.62	34.32	46.00	-11.68	Average
11	28.302	0.03	10.20	25.61	35.84	60.00	-24.16	QP
12	28.302	0.03	10.20	17.70	27.93	50.00	-22.07	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013, section 11.9.1.2
Test Setup:	 <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	Antenna gain below 6dBi: 30dBm (802.11 b & g) Antenna gain greater than 6dBi : Not exceed 30dBm – 2.57 (directional gain-6) = 27.43dBm (802.11 n)
Test Results:	Pass



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Shenzhen Branch**

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Pre-scan under all rate at lowest channel 1								
Mode	802.11b				X			
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	8.56	8.50	8.53	8.51				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	14.50	14.48	14.49	14.37	14.40	14.42	14.43	14.42
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	18.33	18.29	18.30	18.32	18.30	18.31	18.32	18.30
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	18.41	18.39	18.35	18.30	18.32	18.40	18.40	18.37
Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).								

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Measurement Data

802.11b mode						
Test channel	Peak Output Power (dBm)			Limit (dBm)	Result	
	Ant. 1	Ant. 2	Ant. 3			
Lowest	6.97	7.48	7.80	30.00	Pass	
Middle	6.41	7.86	7.97	30.00	Pass	
Highest	7.57	8.05	8.56	30.00	Pass	
802.11g mode						
Test channel	Peak Output Power (dBm)			Limit (dBm)	Result	
	Ant. 1	Ant. 2	Ant. 3			
Lowest	11.65	12.46	13.27	30.00	Pass	
Middle	11.63	13.47	13.48	30.00	Pass	
Highest	12.88	13.60	14.50	30.00	Pass	
802.11n(HT20)mode						
Test channel	Peak Output Power (dBm)				Limit (dBm)	Result
	Ant. 1	Ant. 2	Ant. 3	Total		
Lowest	11.82	12.63	12.93	17.26	27.43	Pass
Middle	11.51	13.26	13.07	17.45	27.43	Pass
Highest	12.83	13.45	14.28	18.33	27.43	Pass
802.11n(HT40)mode						
Test channel	Peak Output Power (dBm)				Limit (dBm)	Result
	Ant. 1	Ant. 2	Ant. 3	Total		
Lowest	13.06	13.67	14.11	18.41	27.43	Pass
Middle	12.12	13.41	13.50	17.83	27.43	Pass
Highest	11.56	13.10	12.62	17.24	27.43	Pass

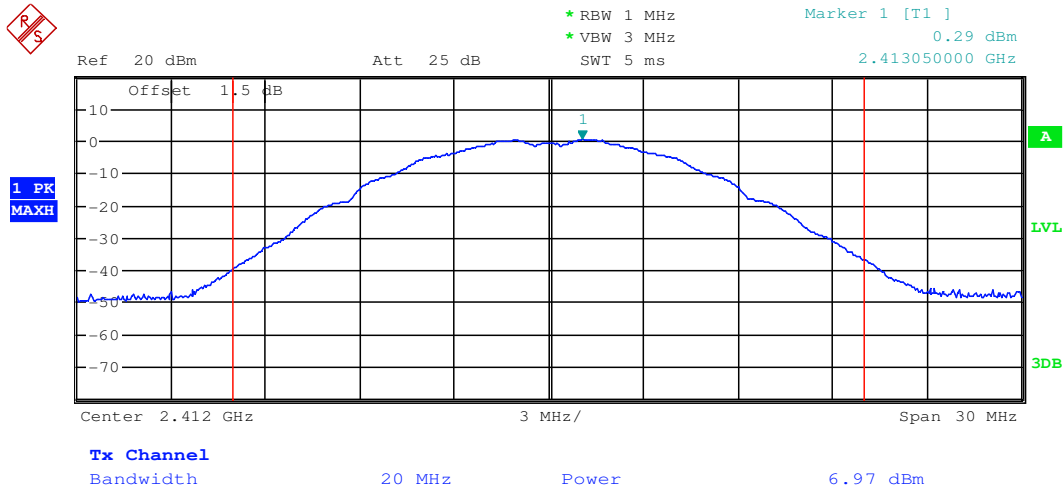
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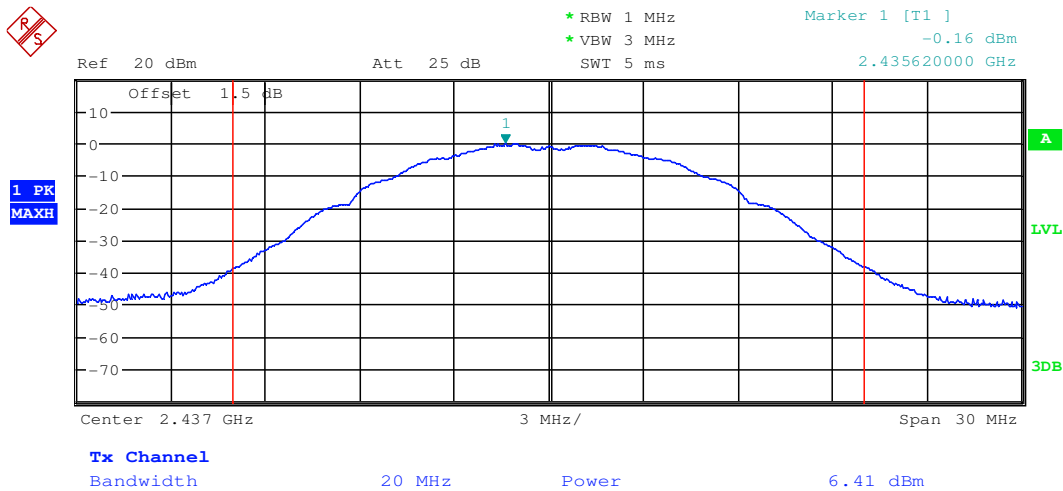
Test plot as follows:

Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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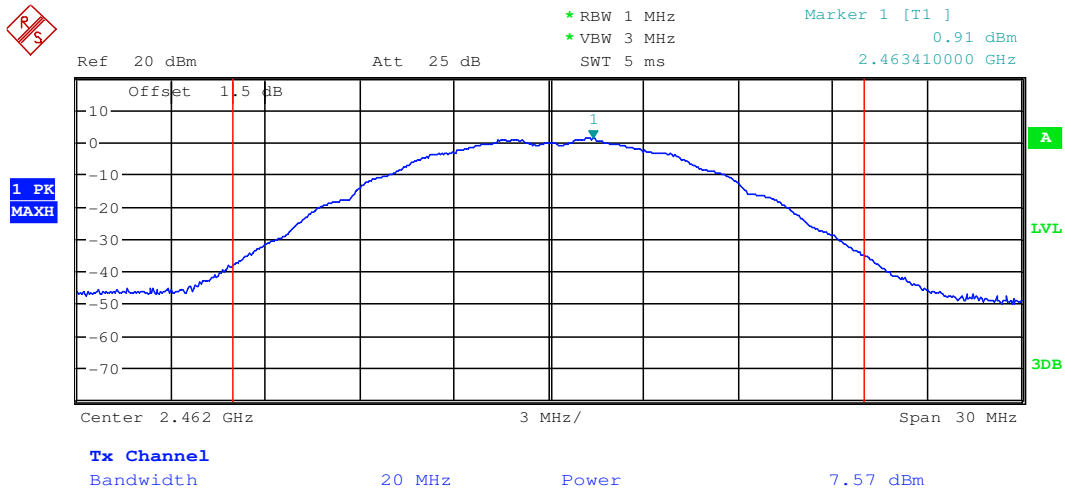
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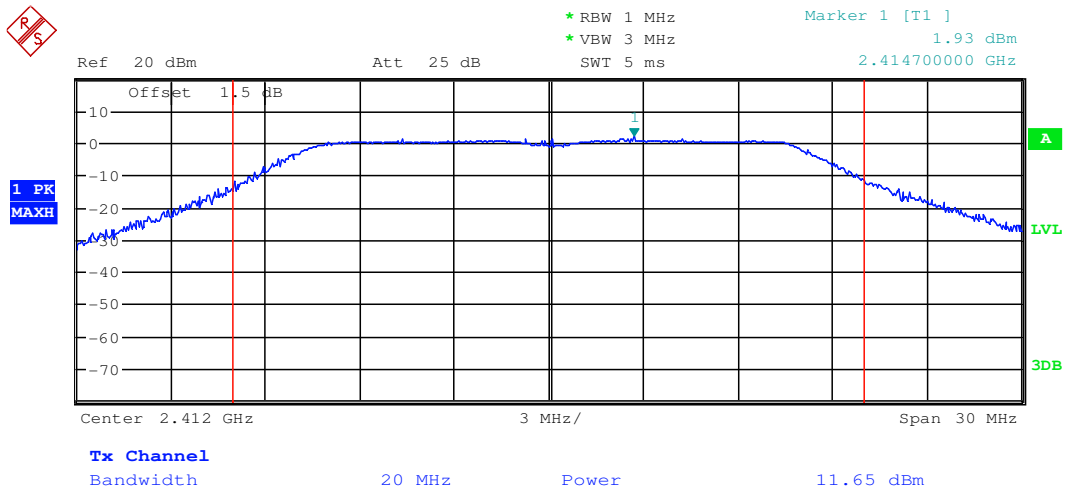
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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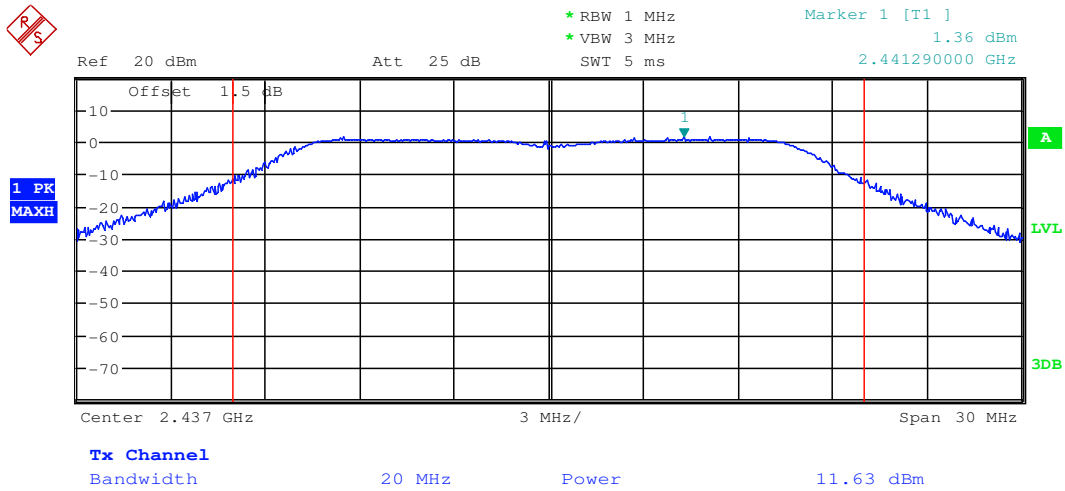


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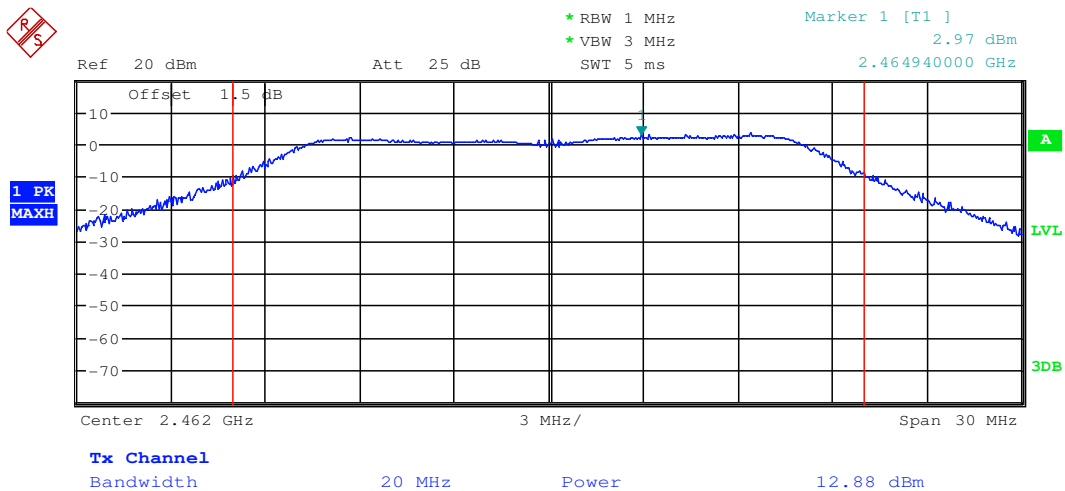
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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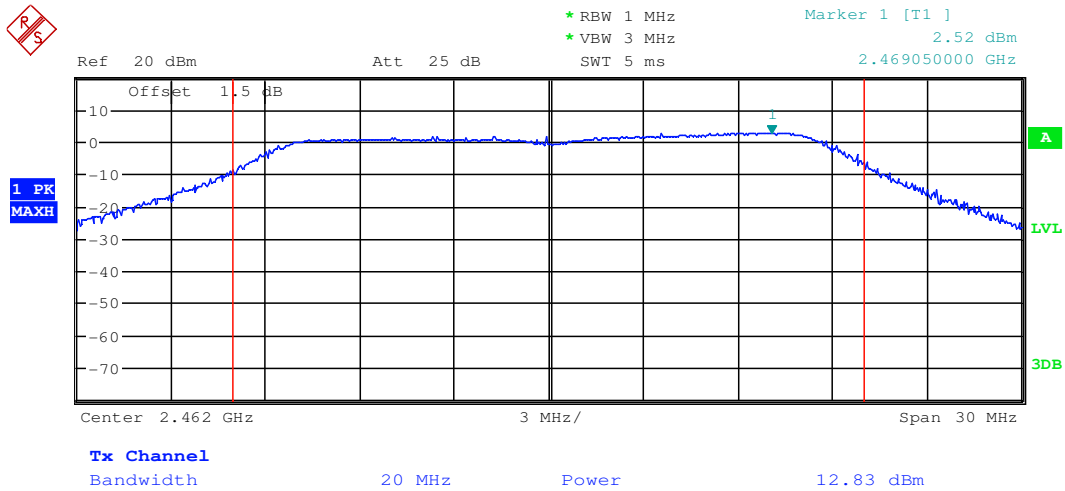
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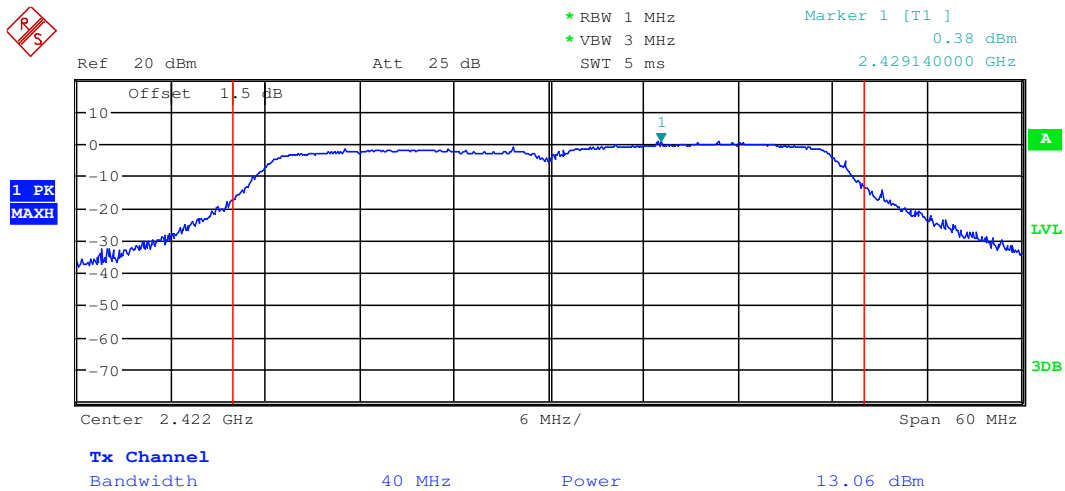
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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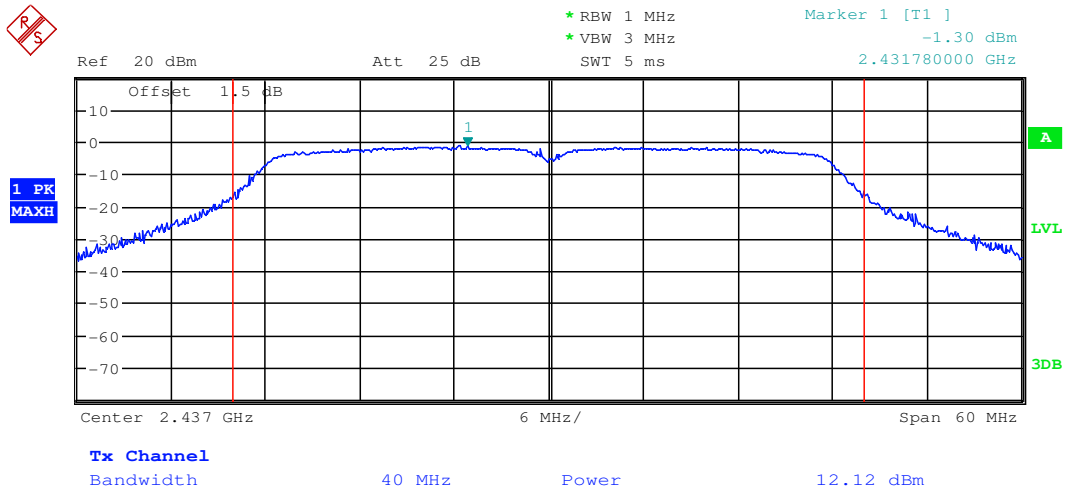
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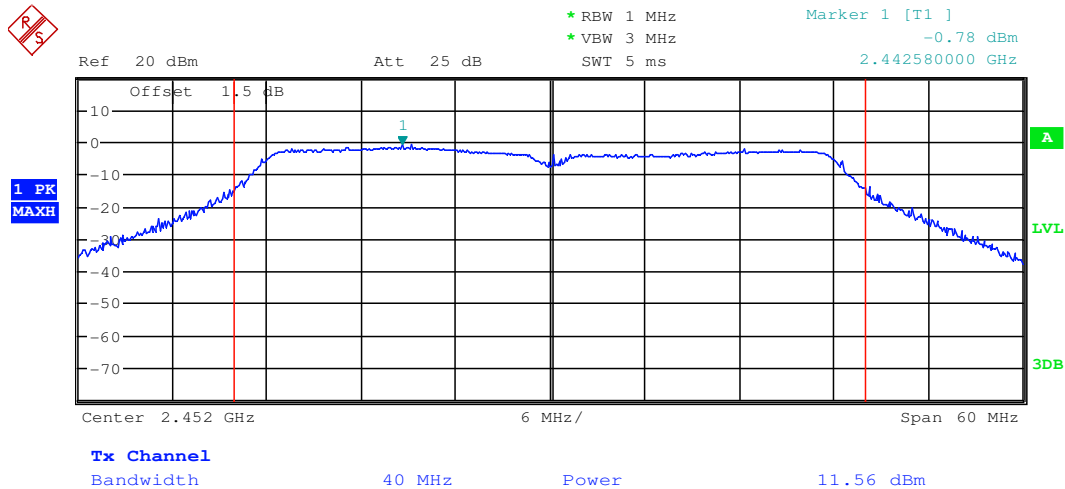
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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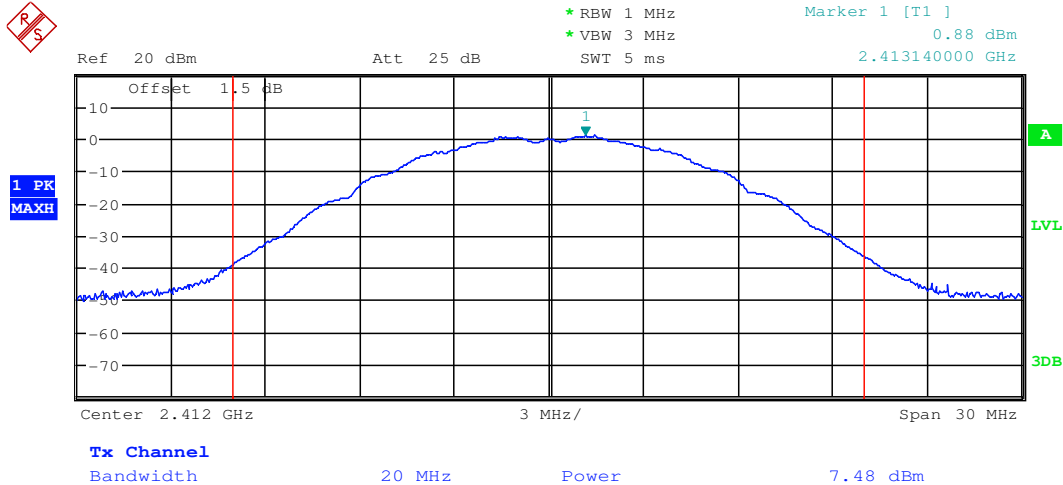
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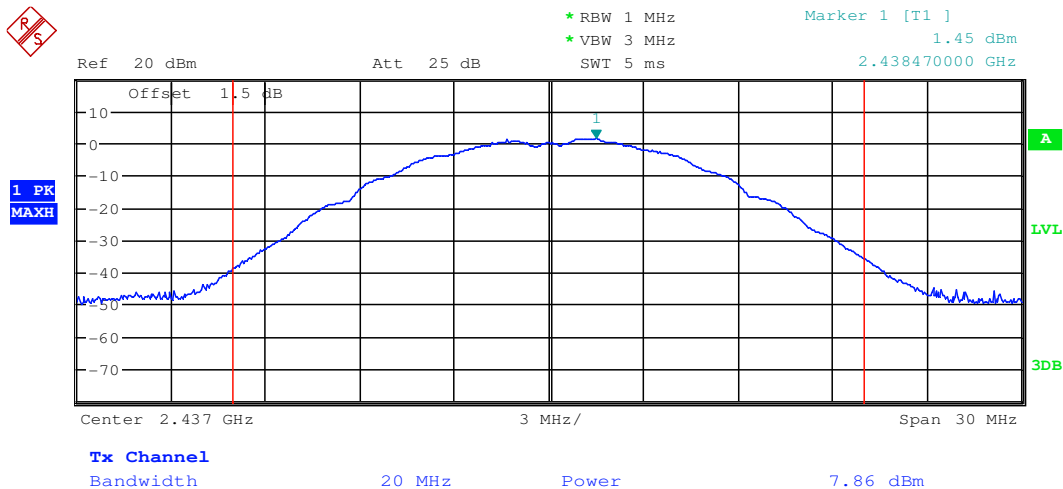
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Antenna 2

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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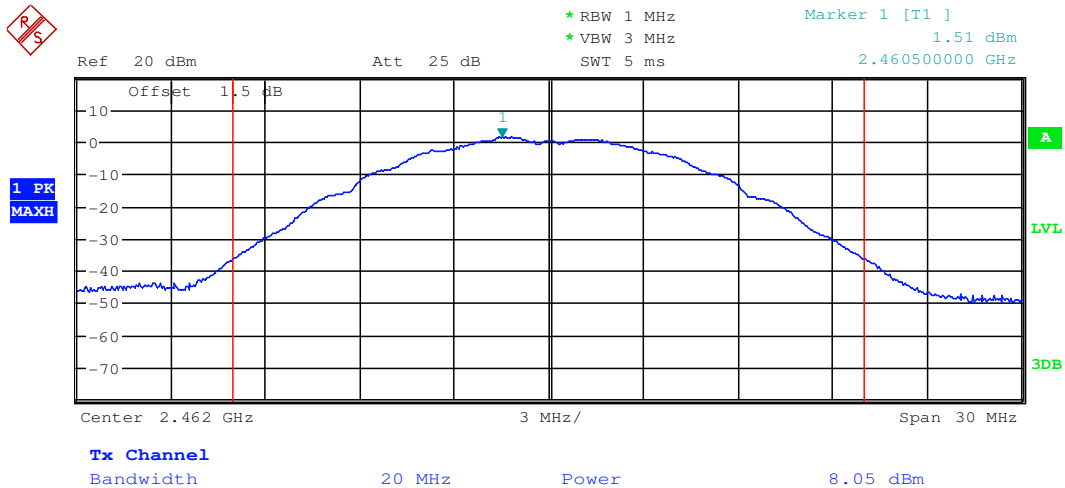


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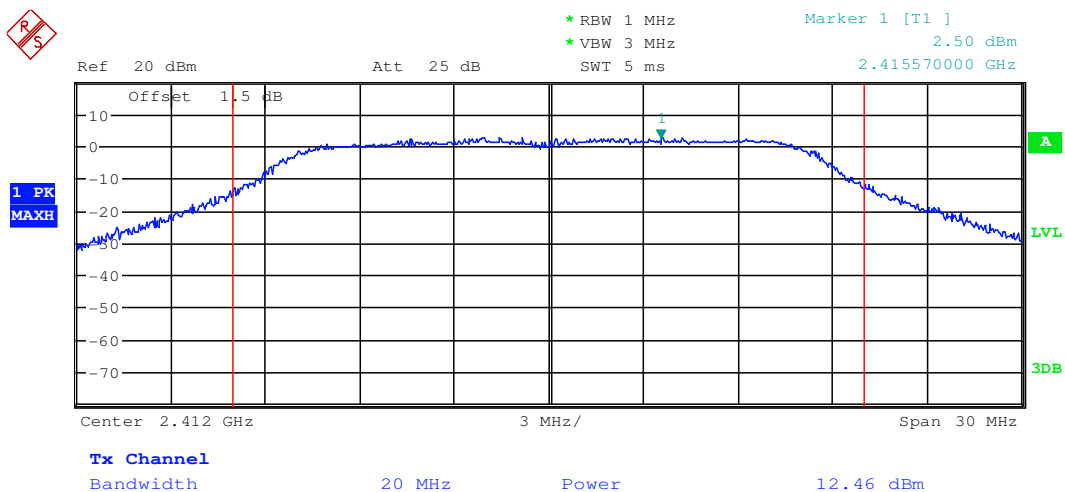
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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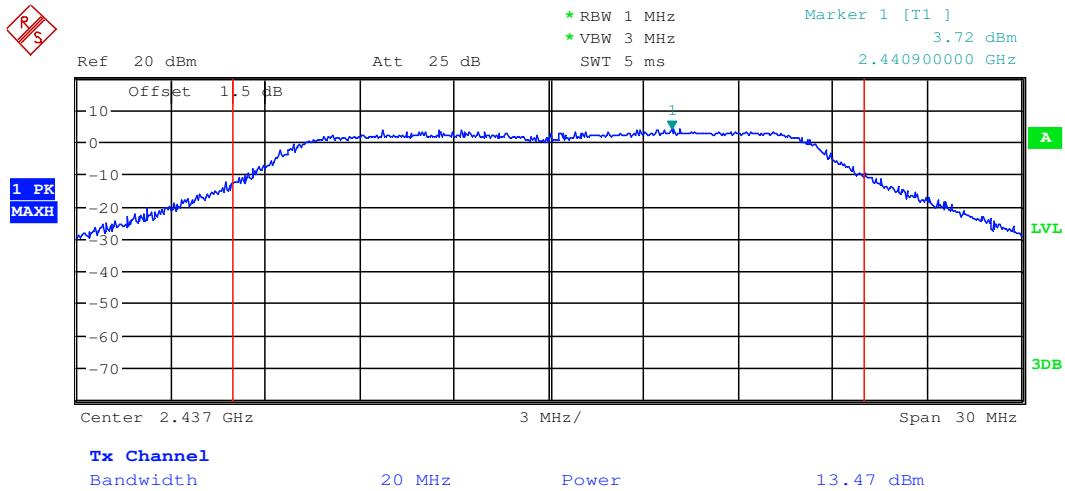


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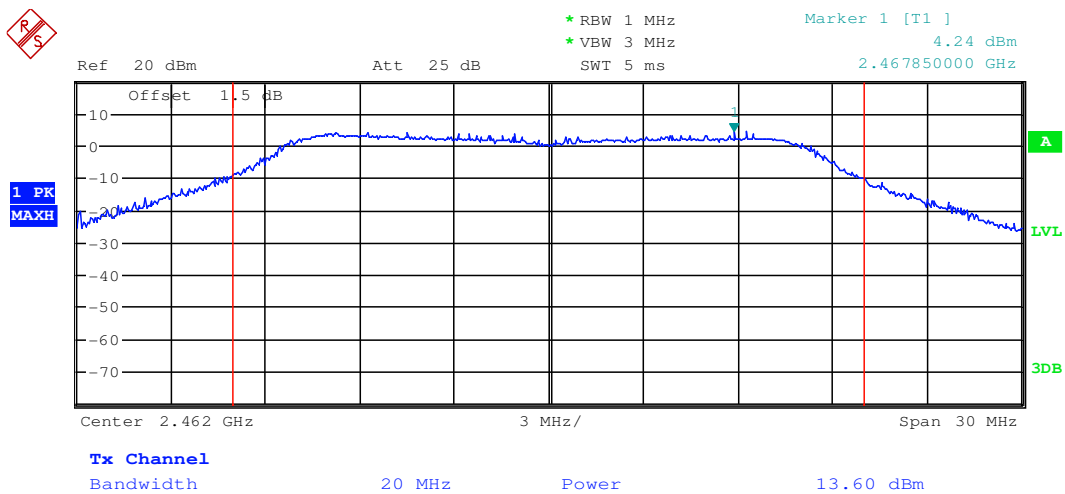
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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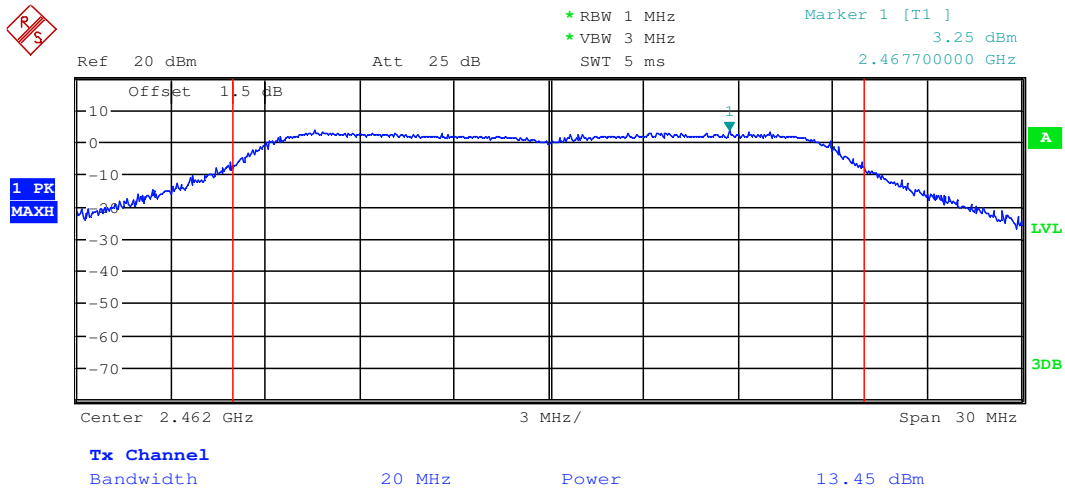


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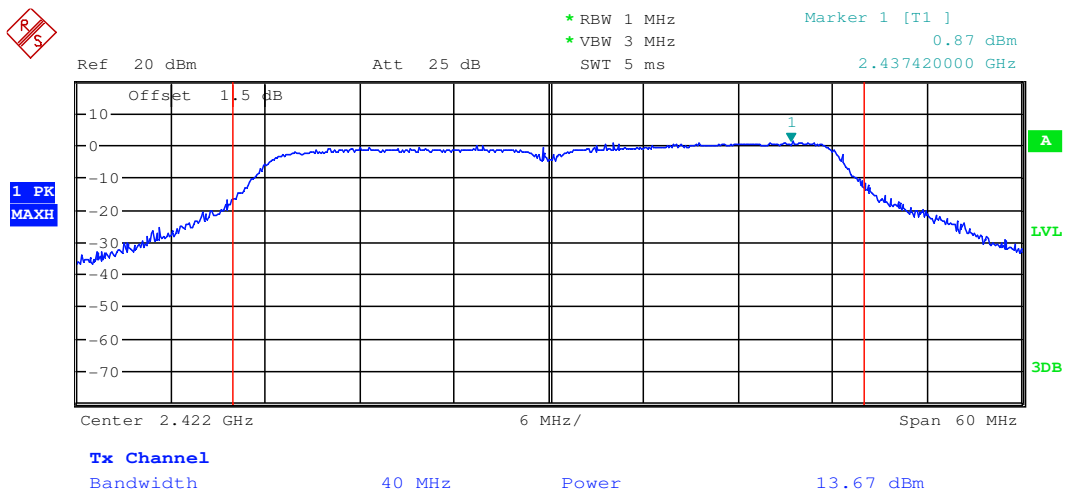
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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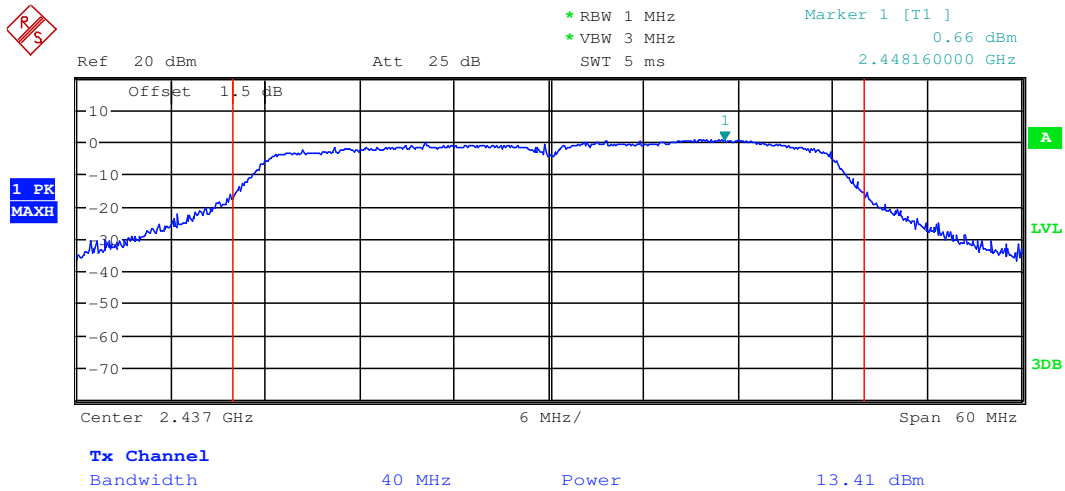
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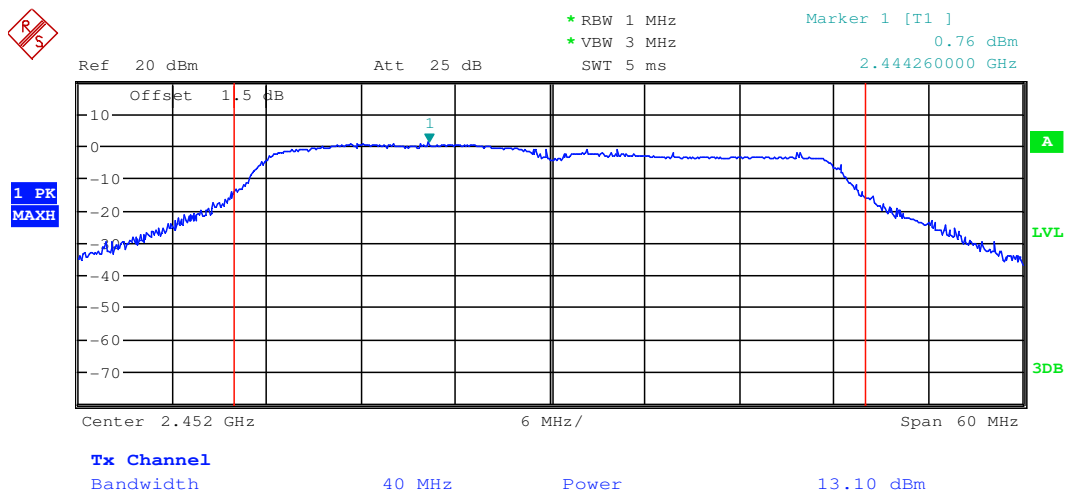
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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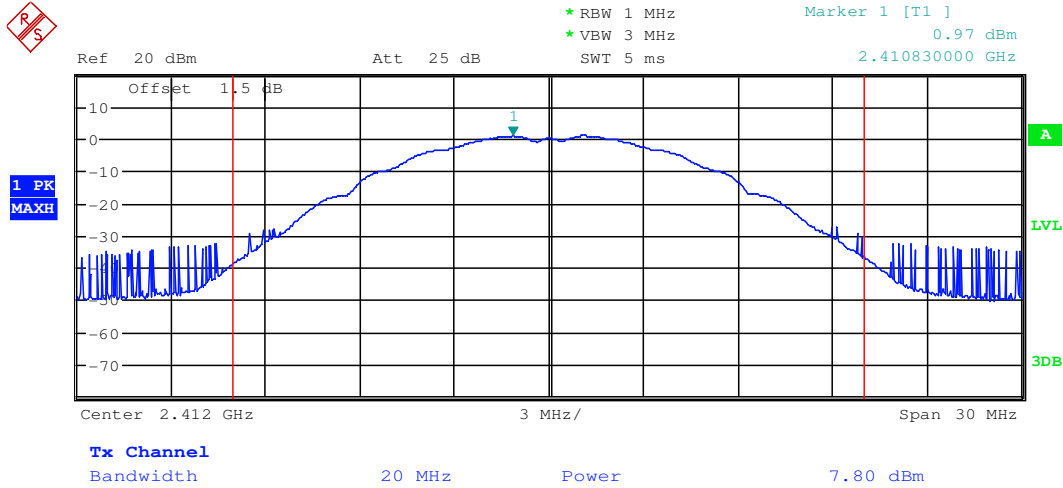
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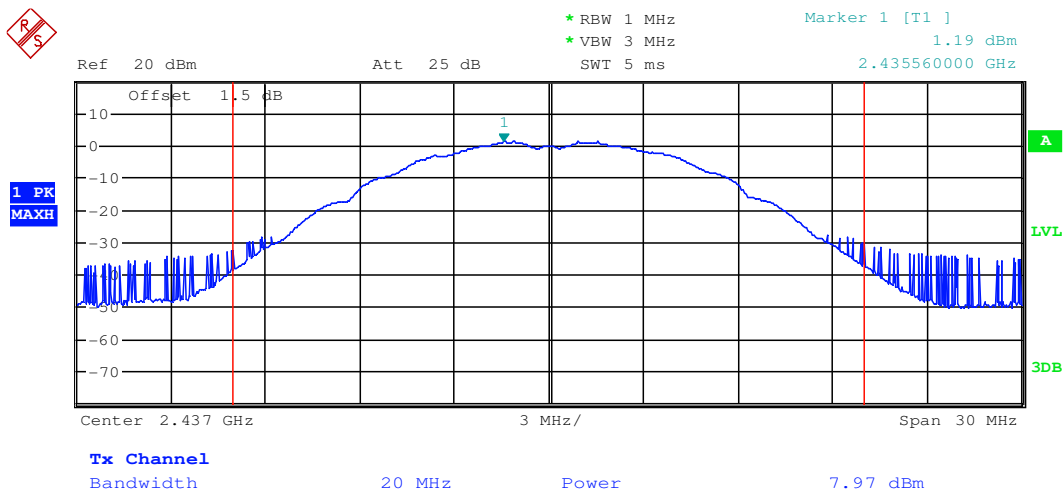
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Antenna 3

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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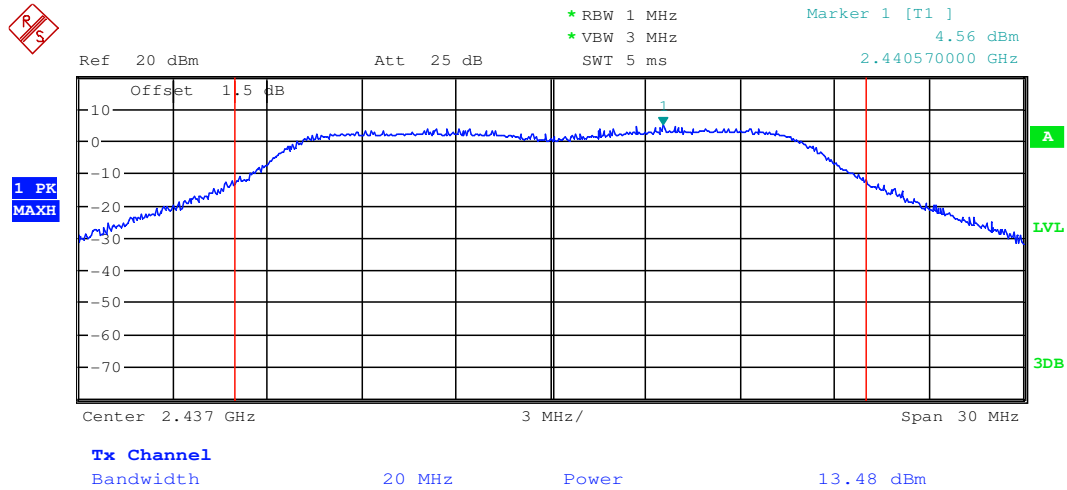


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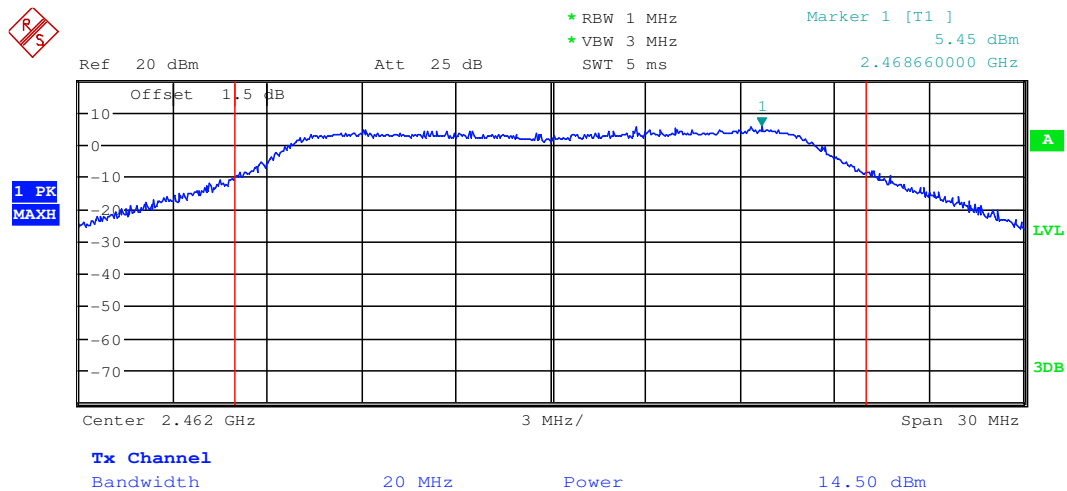
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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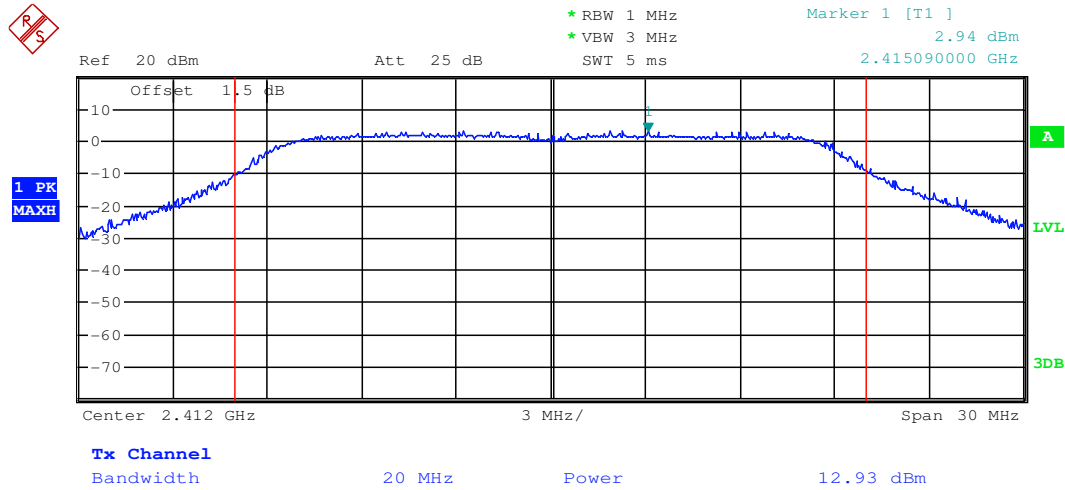


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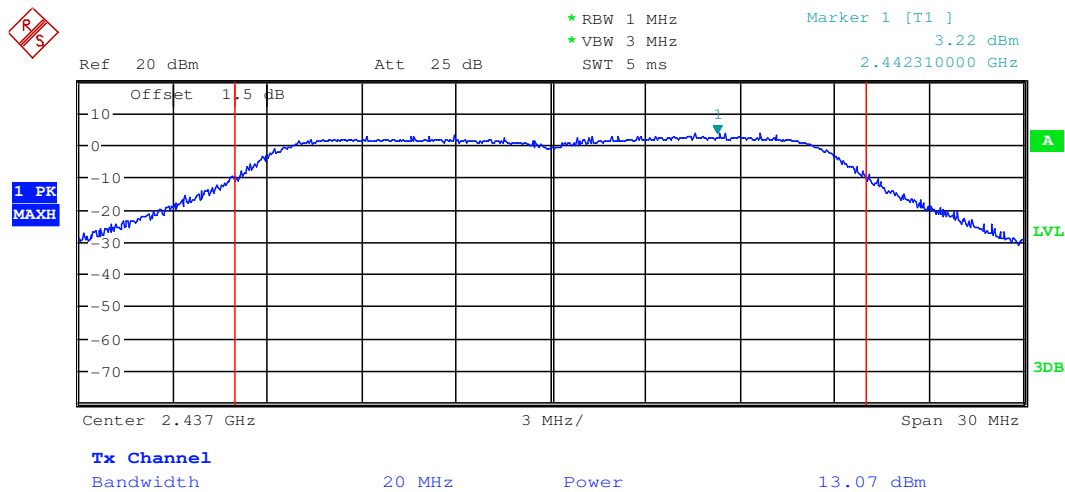
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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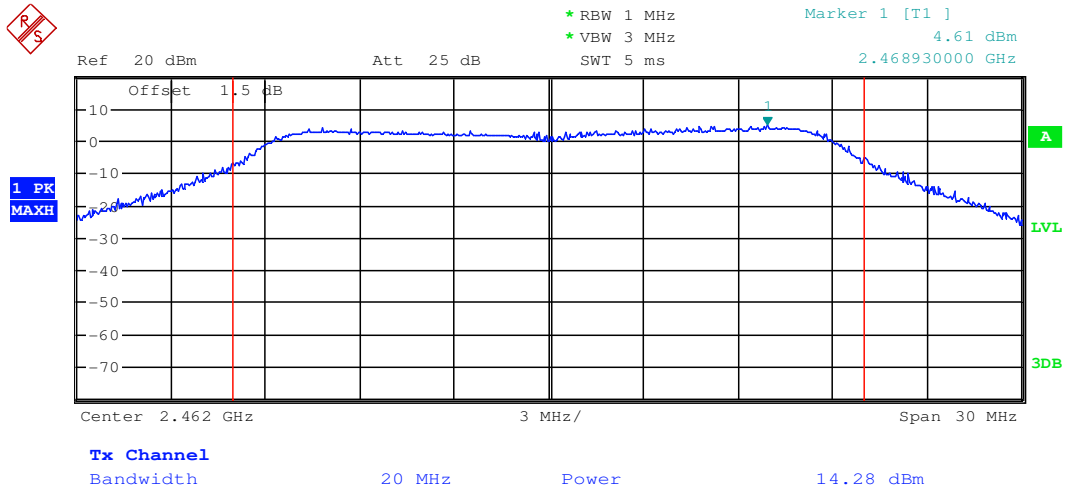
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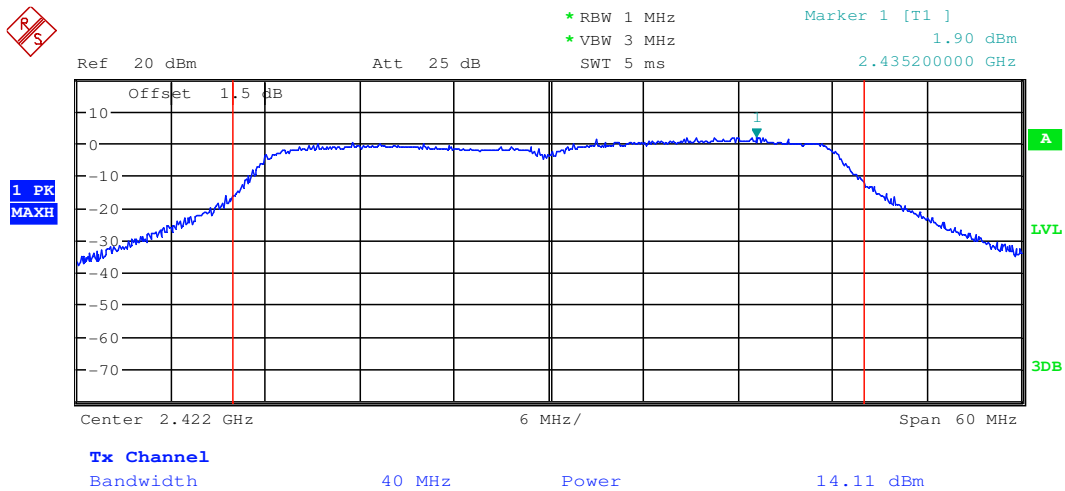
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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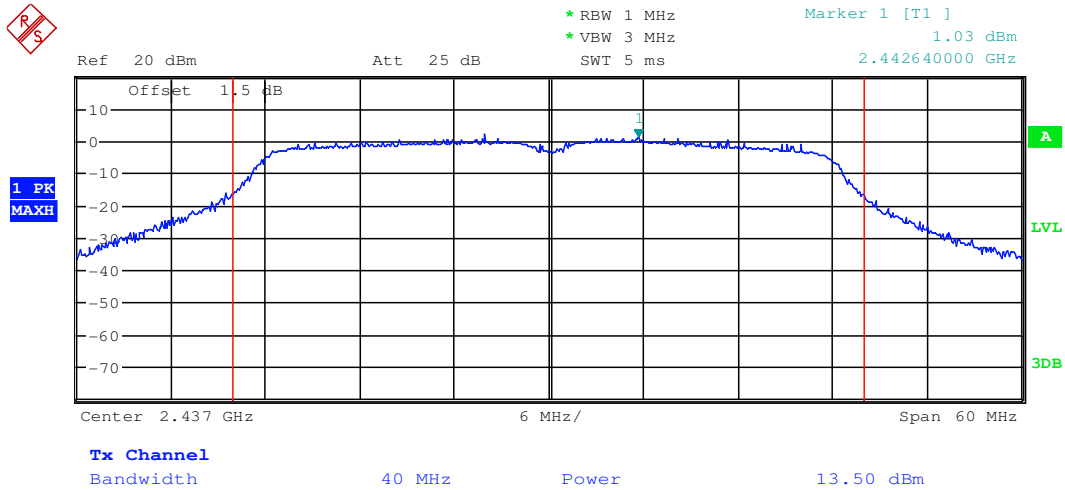


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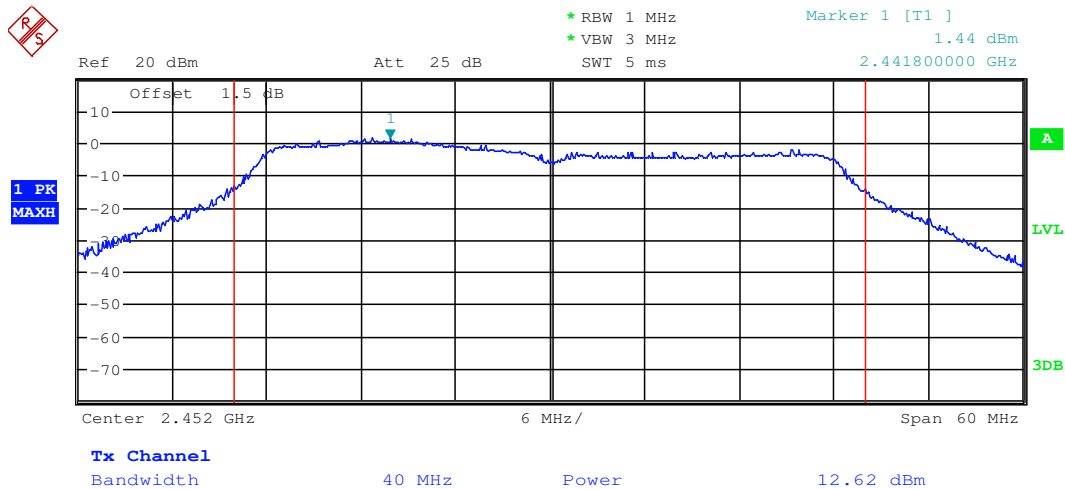
Report No.: HKES160300051102

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Test mode:	802.11n(HT40)	Test channel:	Middle
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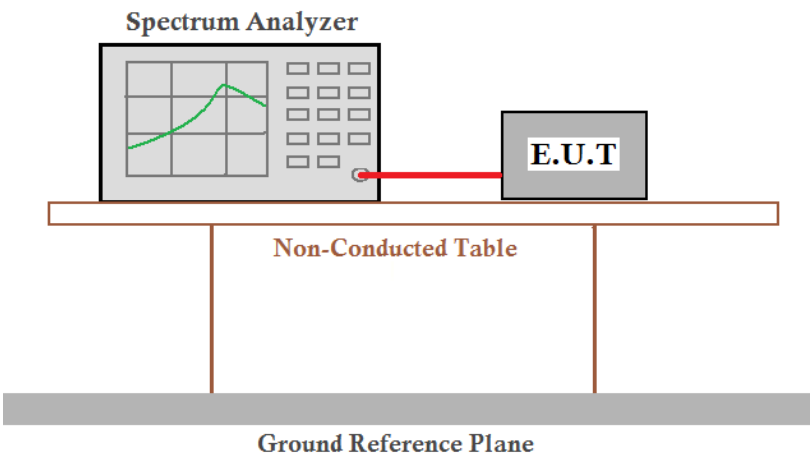


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013, section 11.8.1
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	≥ 500 kHz
Test Results:	Pass



Measurement Data

Antenna 1

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	7.11	≥500	Pass
Middle	7.08	≥500	Pass
Highest	7.62	≥500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.23	≥500	Pass
Middle	16.38	≥500	Pass
Highest	16.41	≥500	Pass
802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.22	≥500	Pass
Middle	17.61	≥500	Pass
Highest	17.64	≥500	Pass
802.11n(HT40)mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	35.58	≥500	Pass
Middle	35.28	≥500	Pass
Highest	36.48	≥500	Pass



Antenna 2

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	6.63	≥500	Pass
Middle	6.15	≥500	Pass
Highest	7.08	≥500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	15.78	≥500	Pass
Middle	13.26	≥500	Pass
Highest	16.41	≥500	Pass
802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.41	≥500	Pass
Middle	13.89	≥500	Pass
Highest	17.37	≥500	Pass
802.11n(HT40)mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	32.70	≥500	Pass
Middle	20.82	≥500	Pass
Highest	29.58	≥500	Pass



Antenna 3

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	7.11	≥500	Pass
Middle	7.11	≥500	Pass
Highest	7.62	≥500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.38	≥500	Pass
Middle	16.41	≥500	Pass
Highest	16.50	≥500	Pass
802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.37	≥500	Pass
Middle	17.64	≥500	Pass
Highest	17.67	≥500	Pass
802.11n(HT40)mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	35.82	≥500	Pass
Middle	35.28	≥500	Pass
Highest	35.88	≥500	Pass



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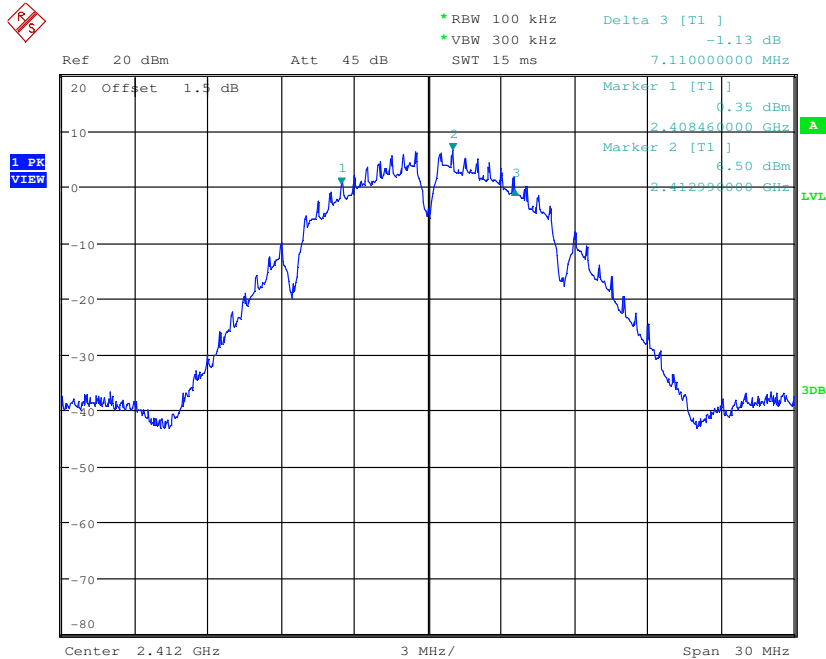
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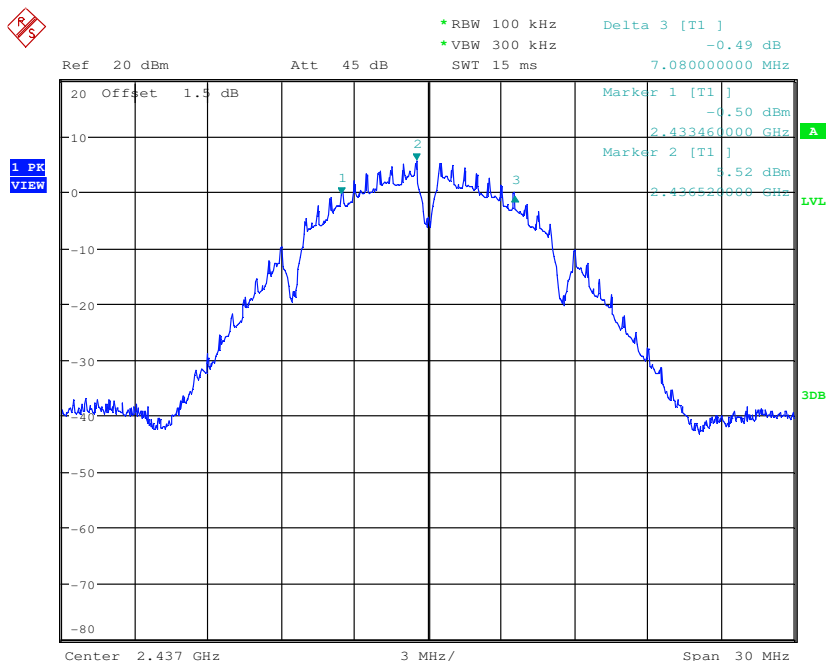
Test plot as follows:

Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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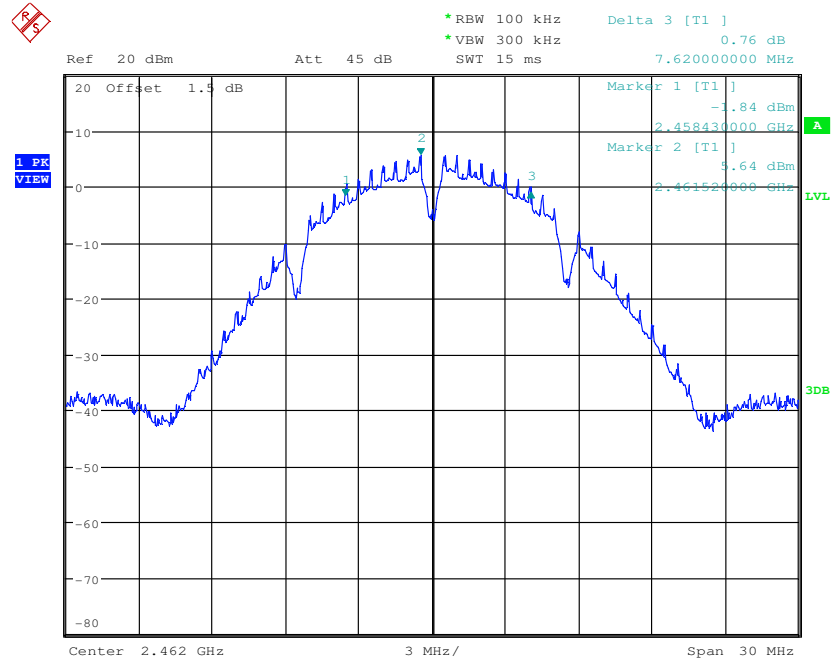


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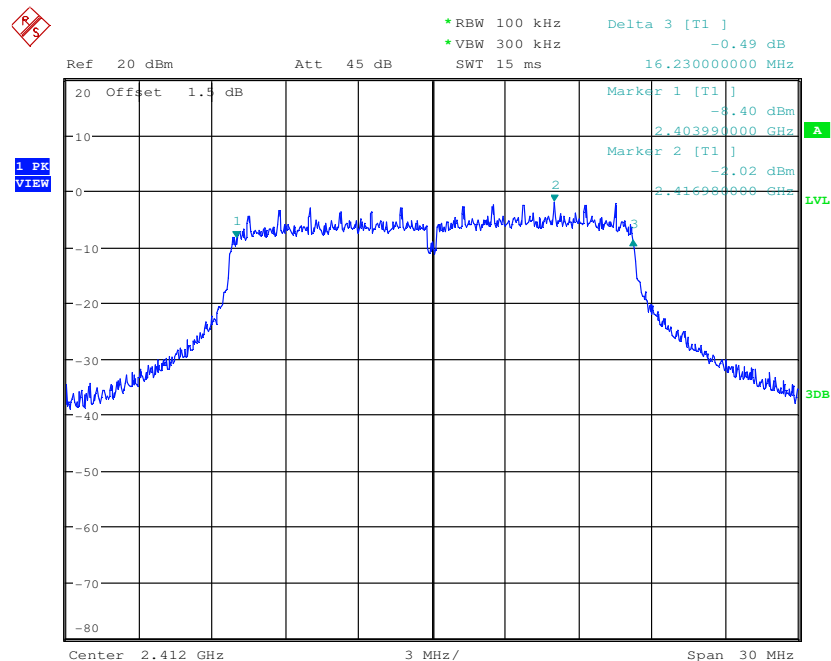
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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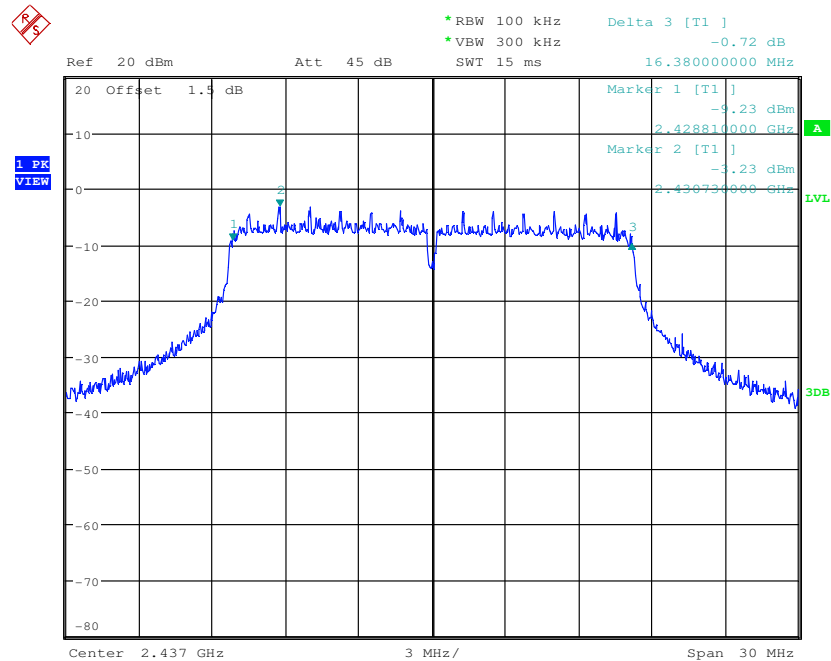


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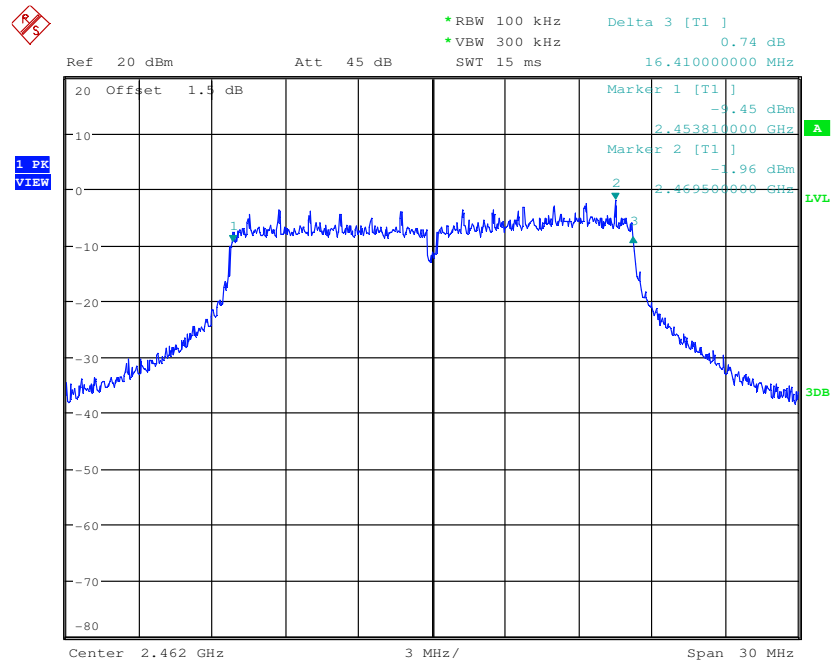
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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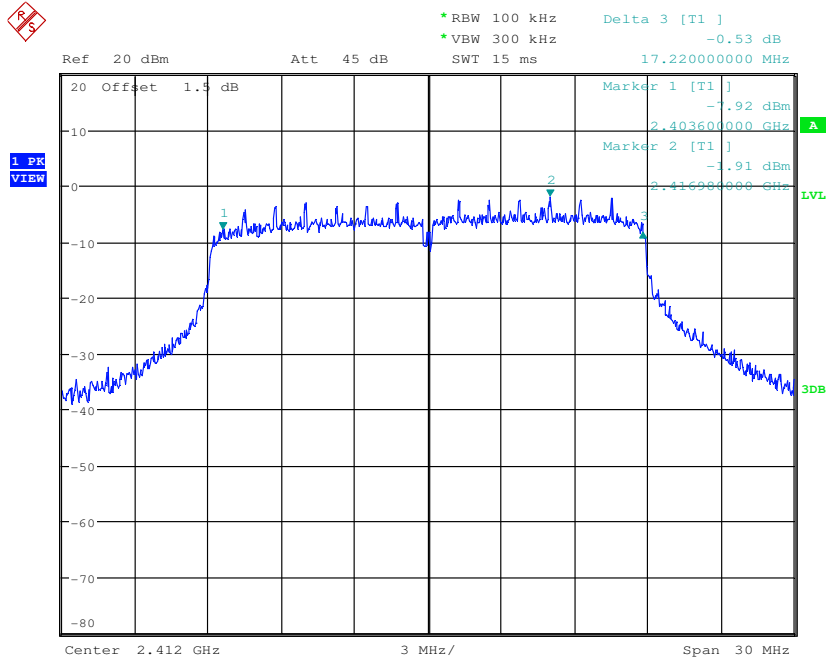


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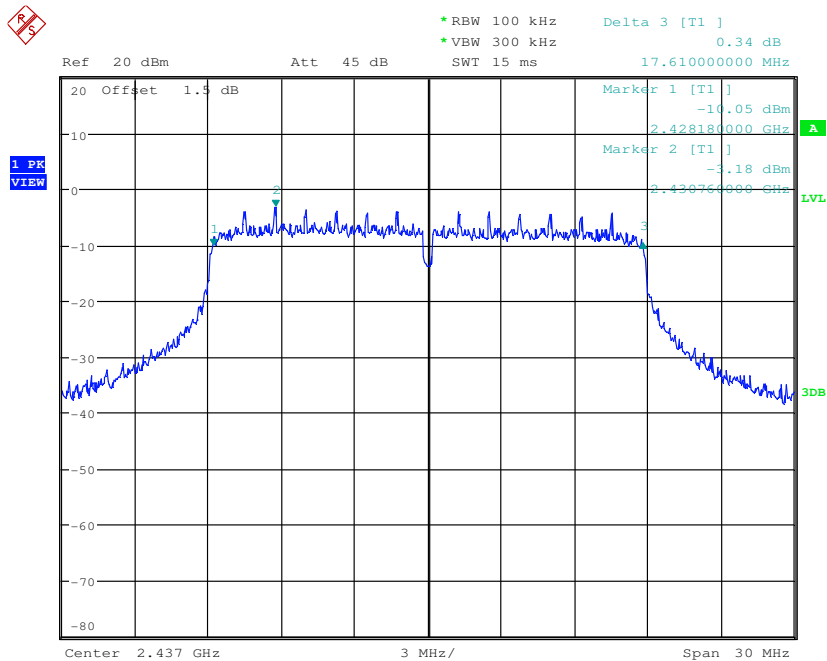
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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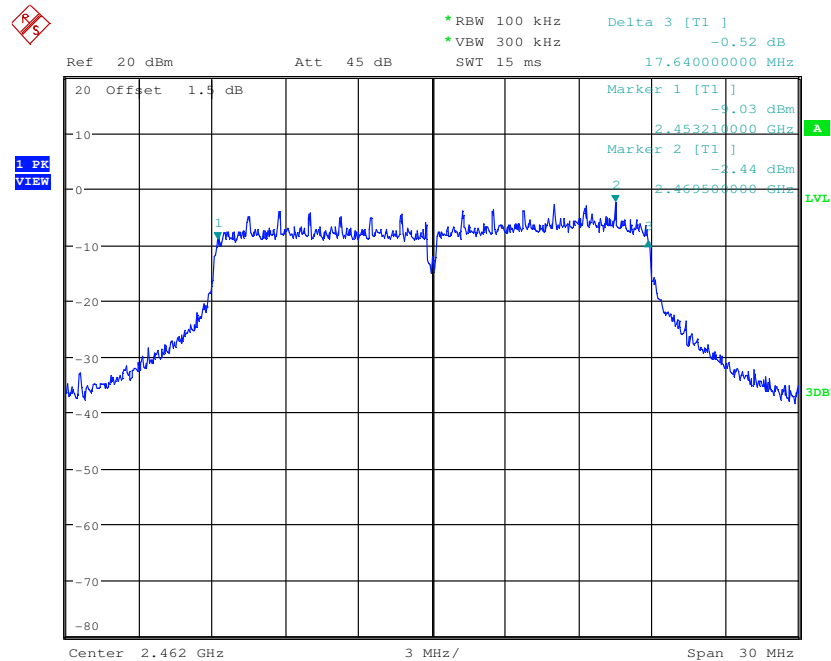


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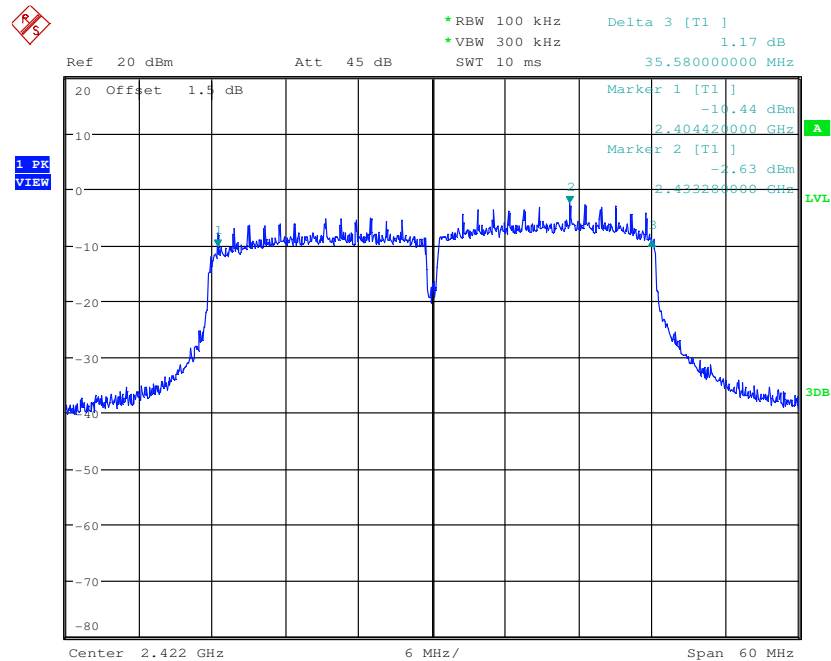
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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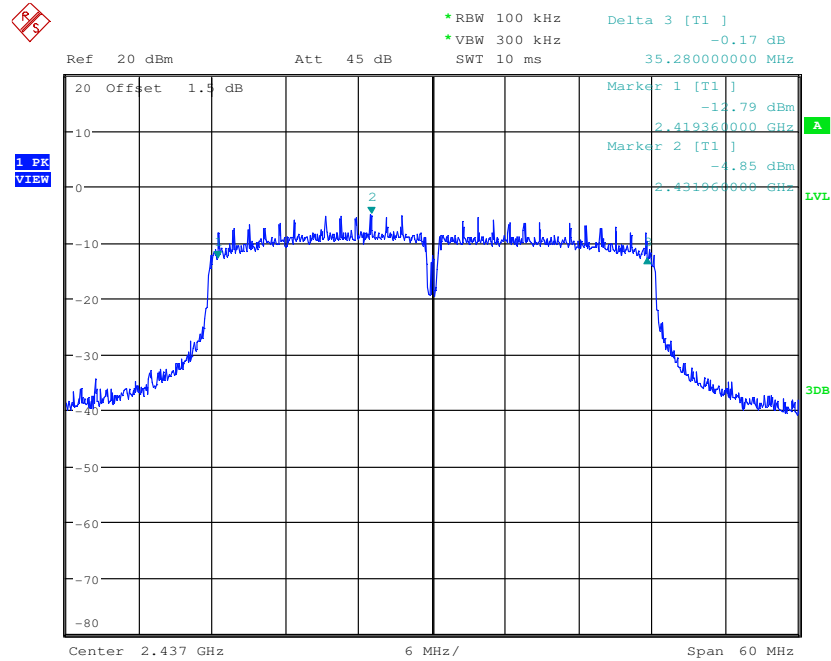


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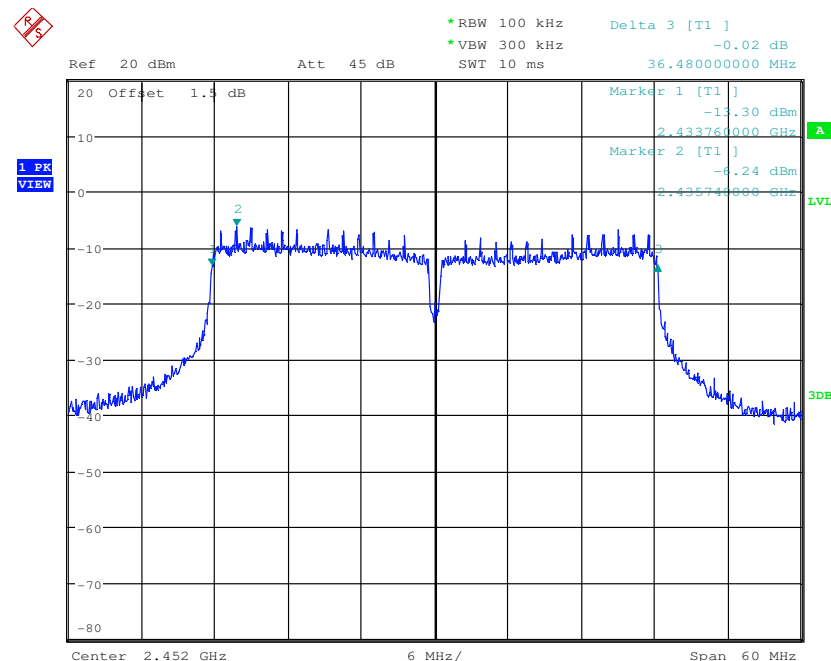
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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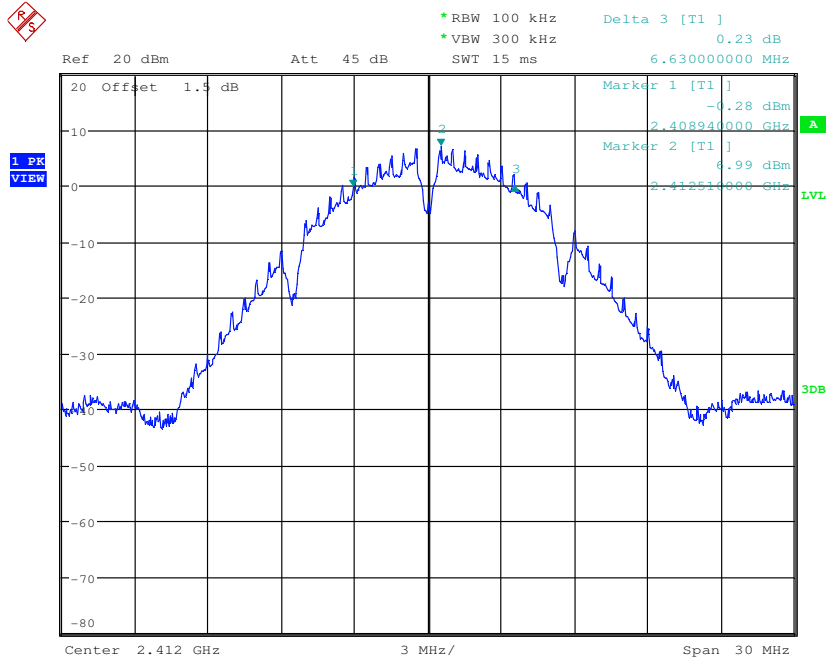
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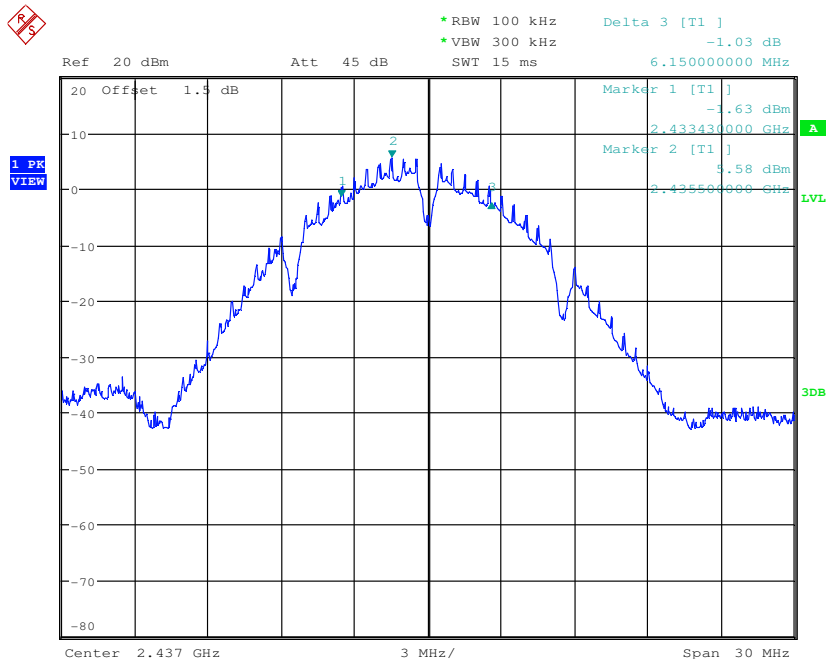
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Antenna 2

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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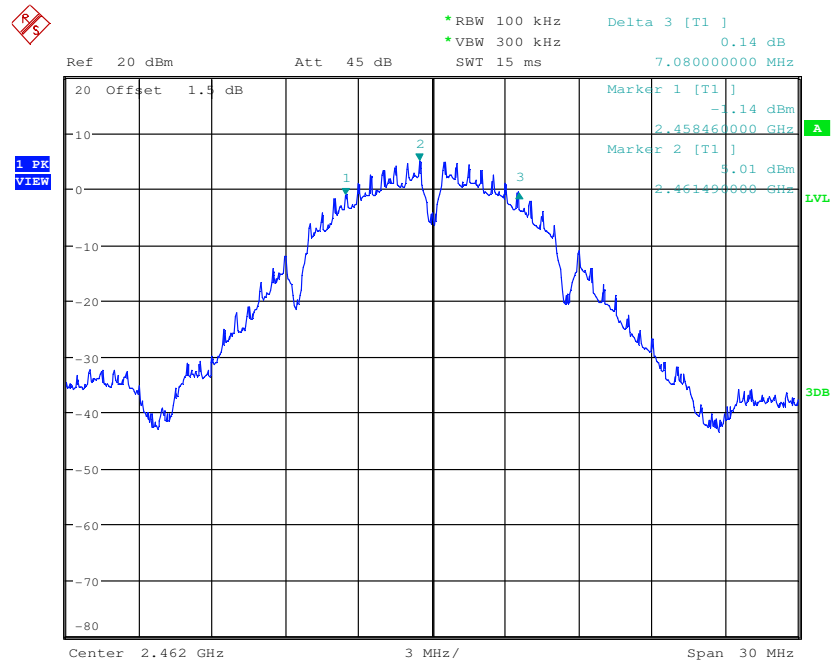


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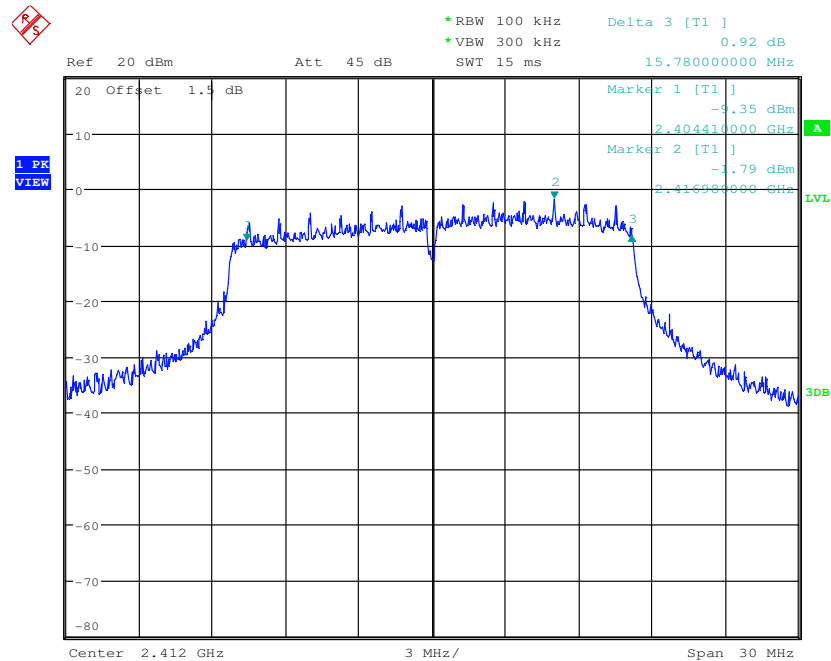
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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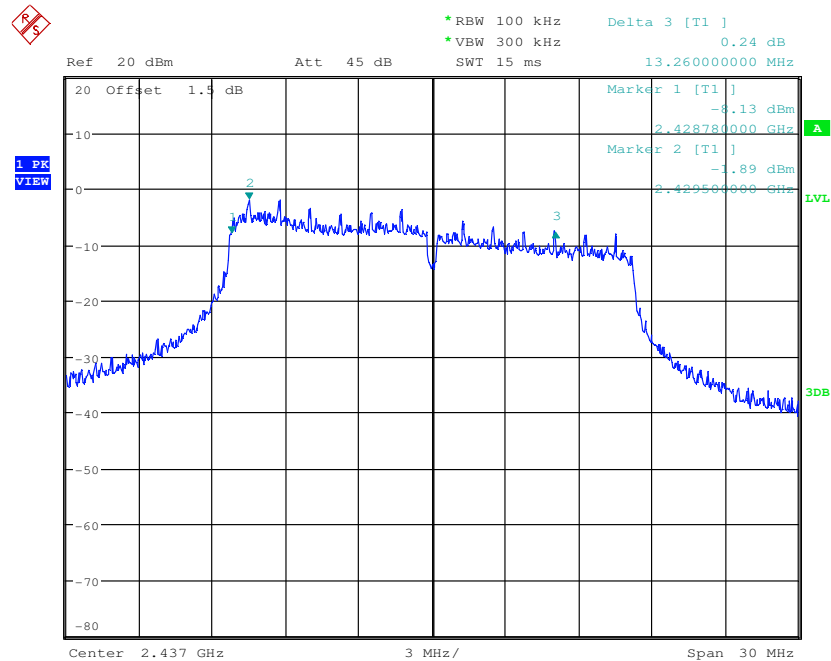


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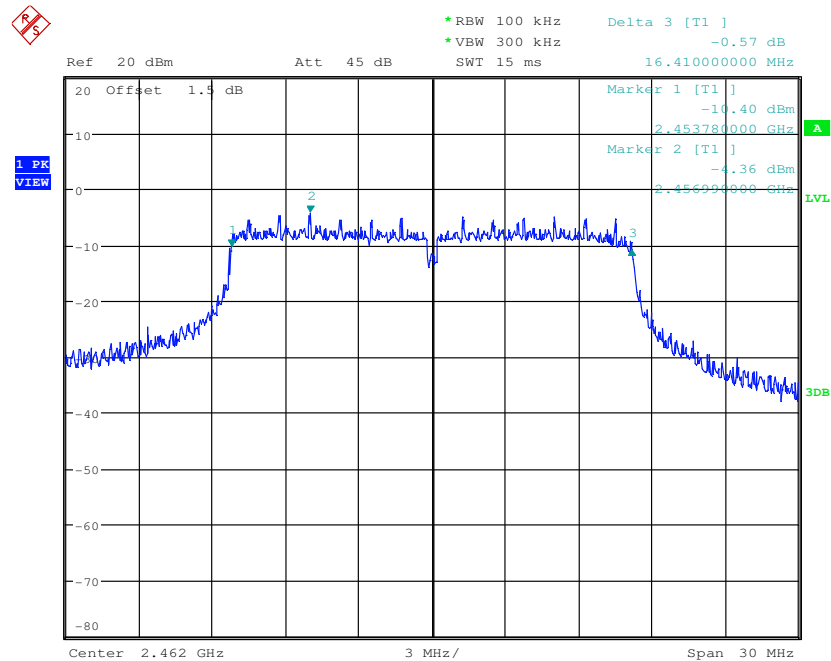
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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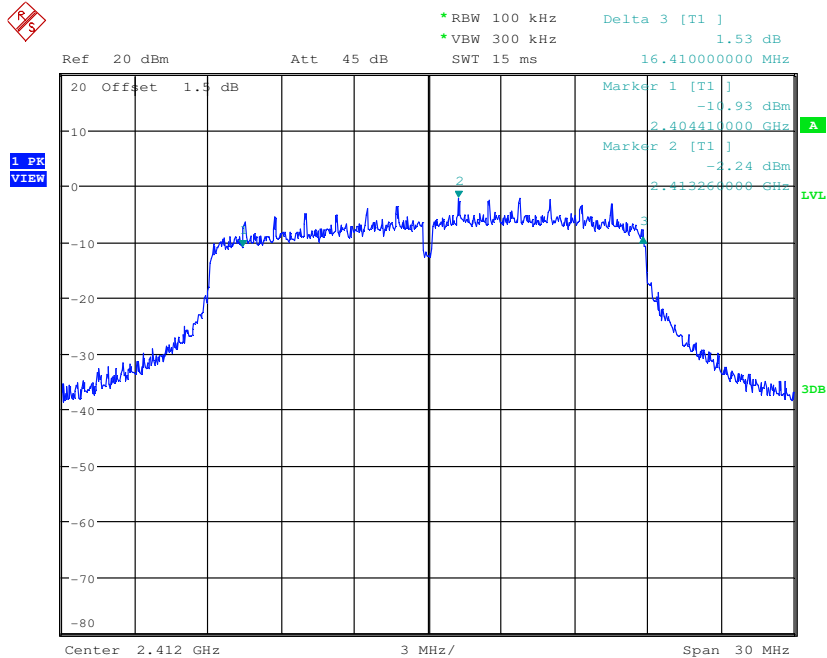
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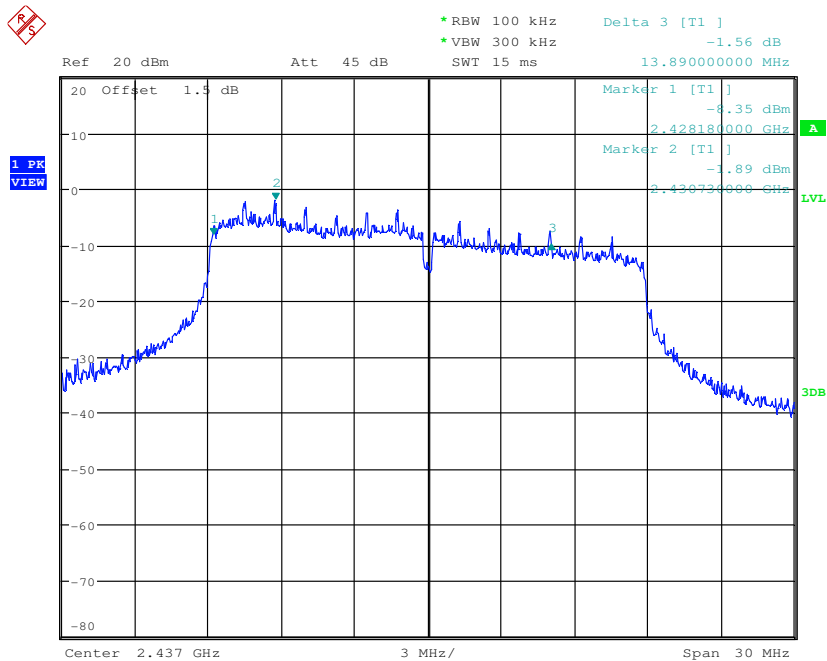
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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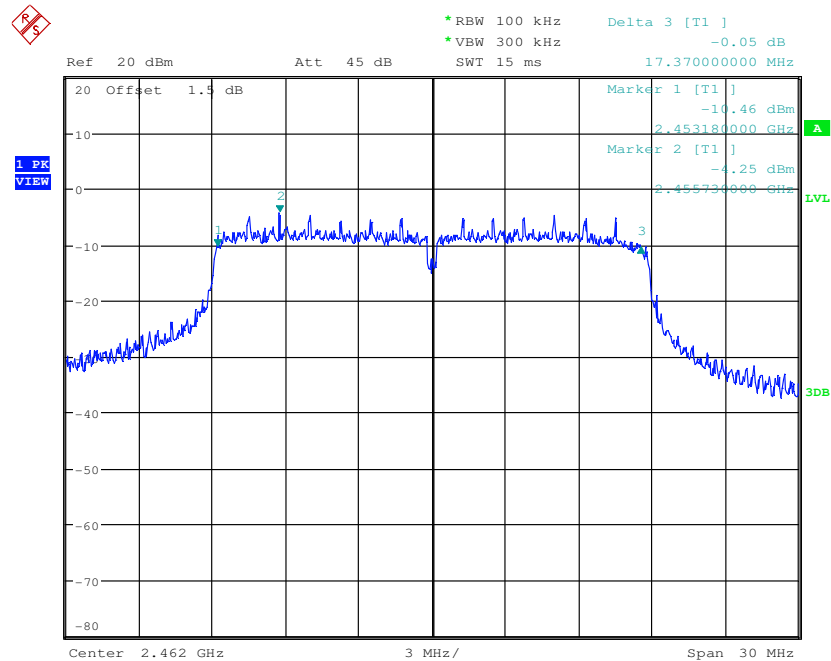


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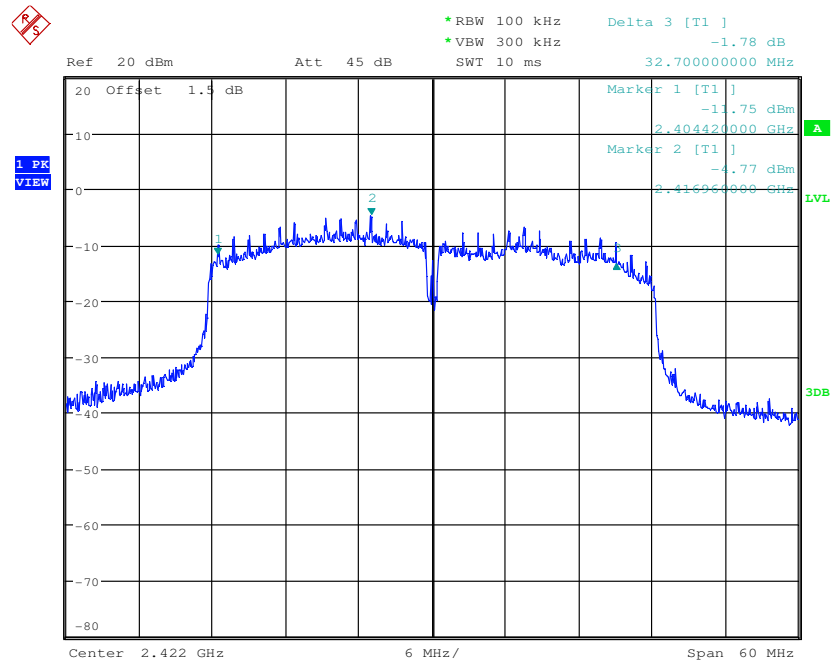
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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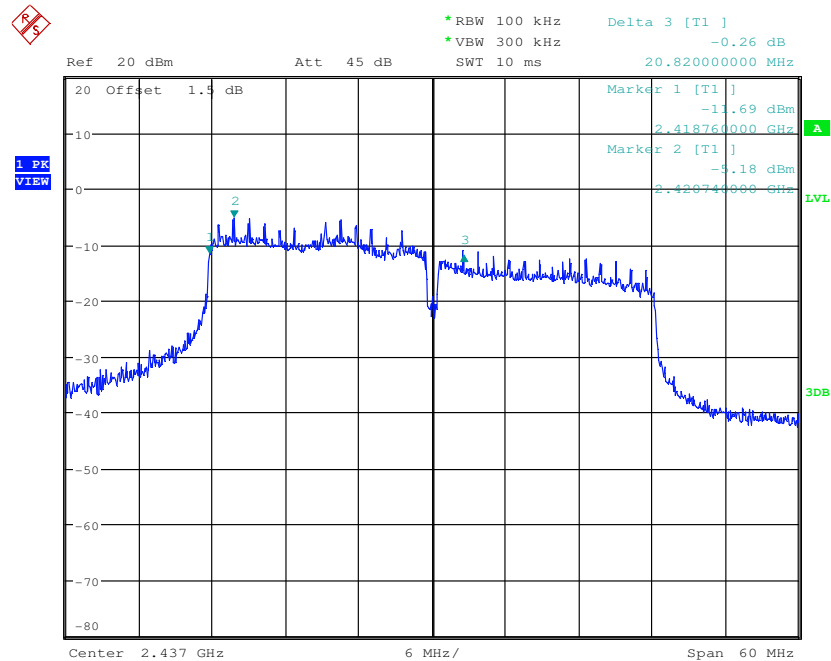


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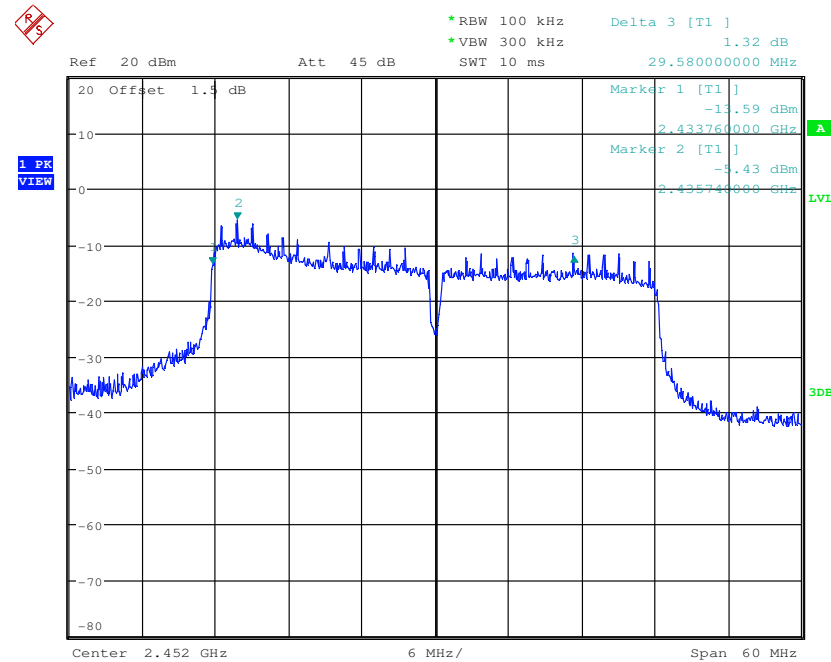
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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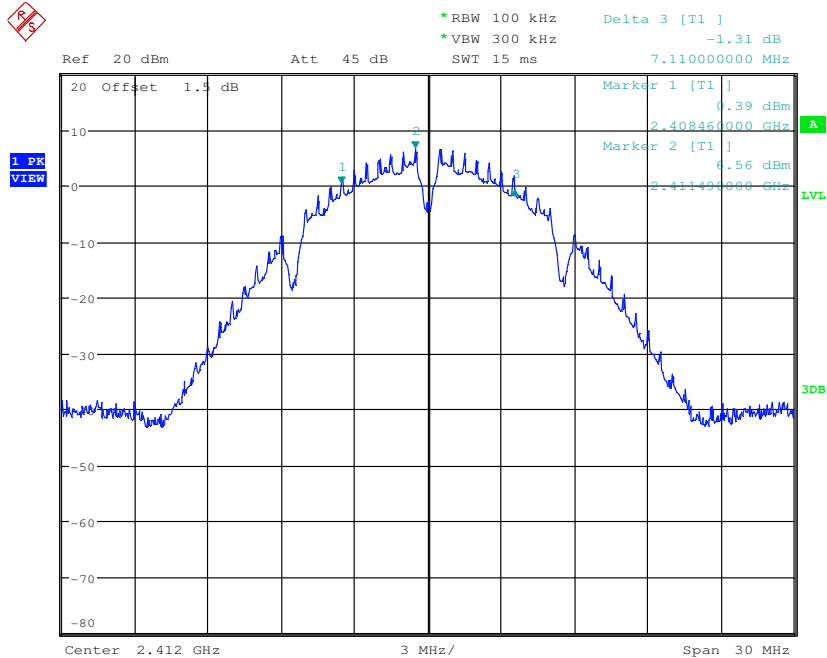
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Report No.: HKES160300051102

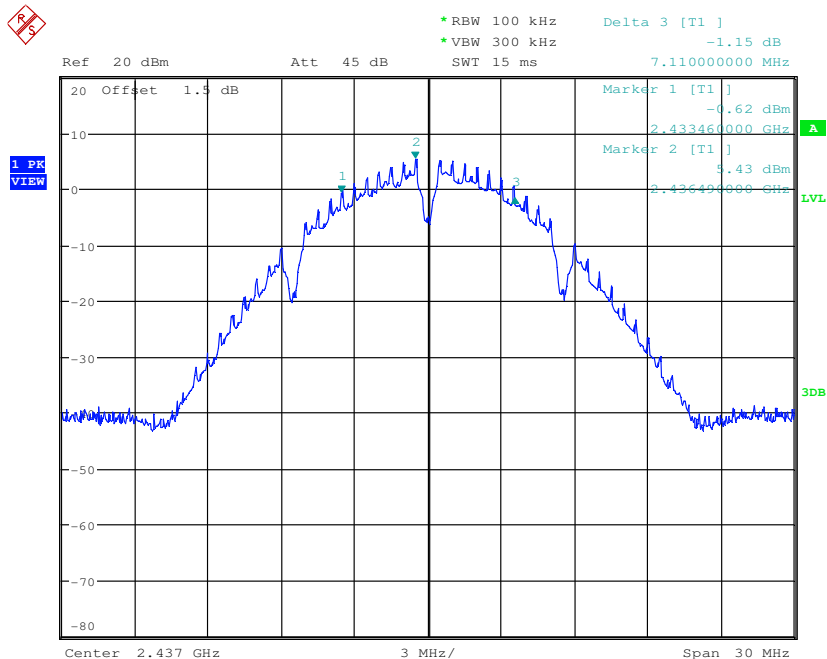
Page: 54 of 191

Antenna 3

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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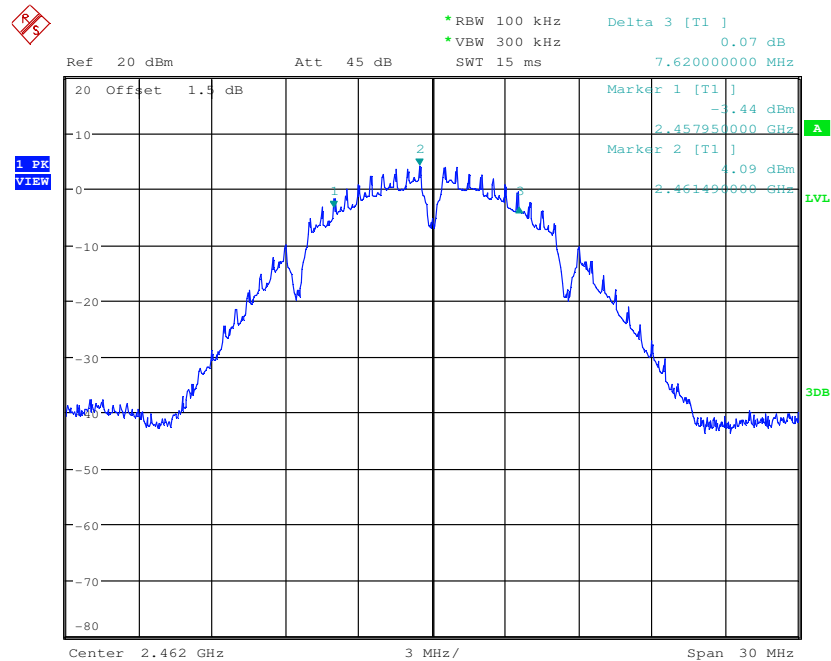


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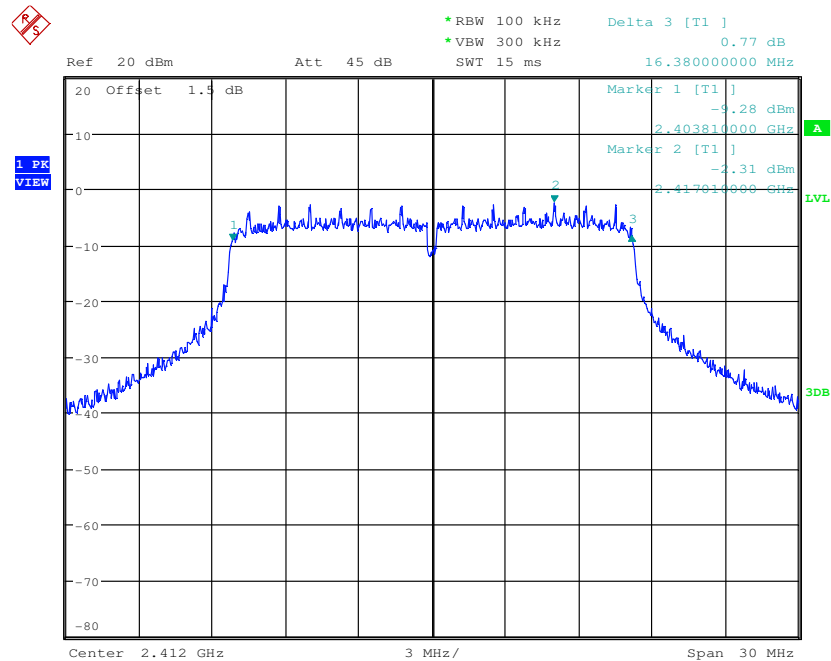
Report No.: HKES160300051102

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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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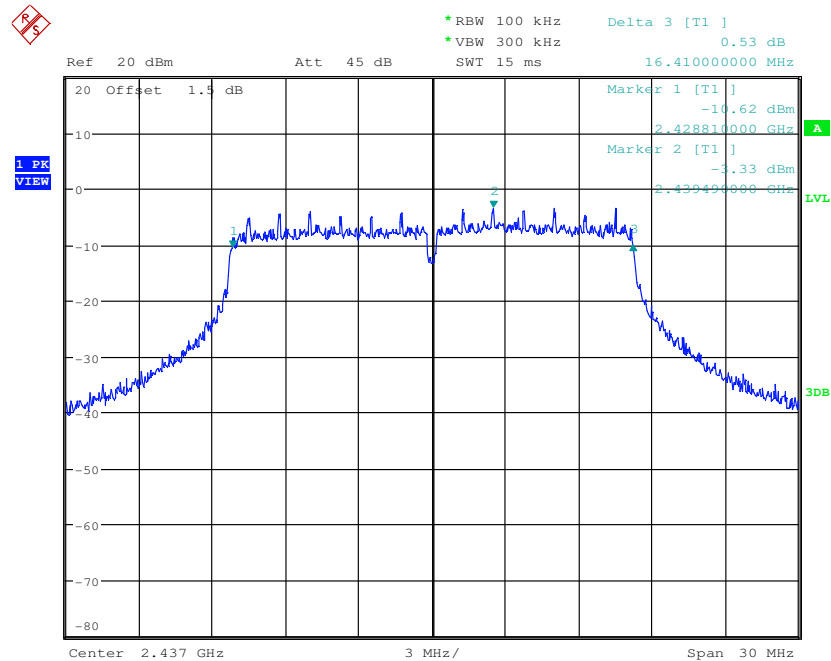


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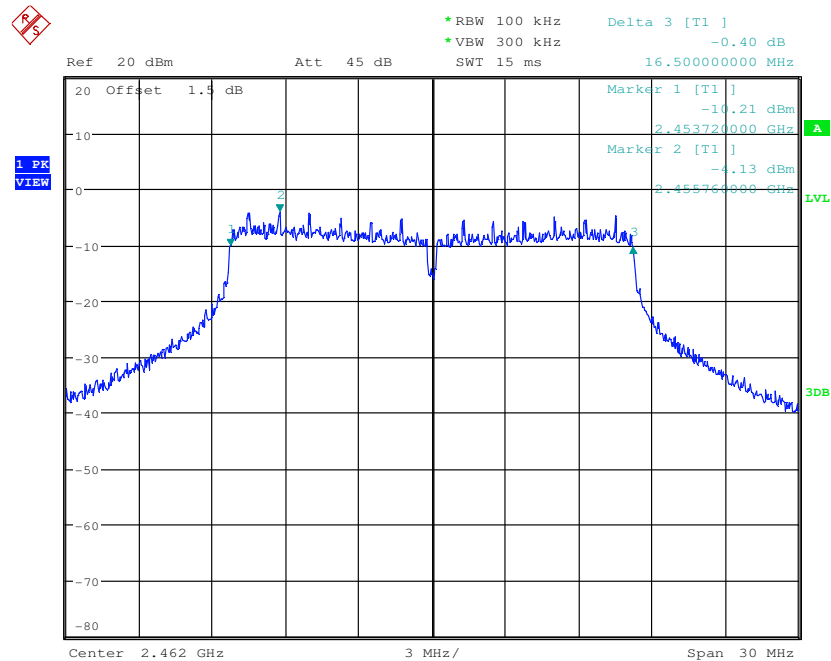
Report No.: HKES160300051102

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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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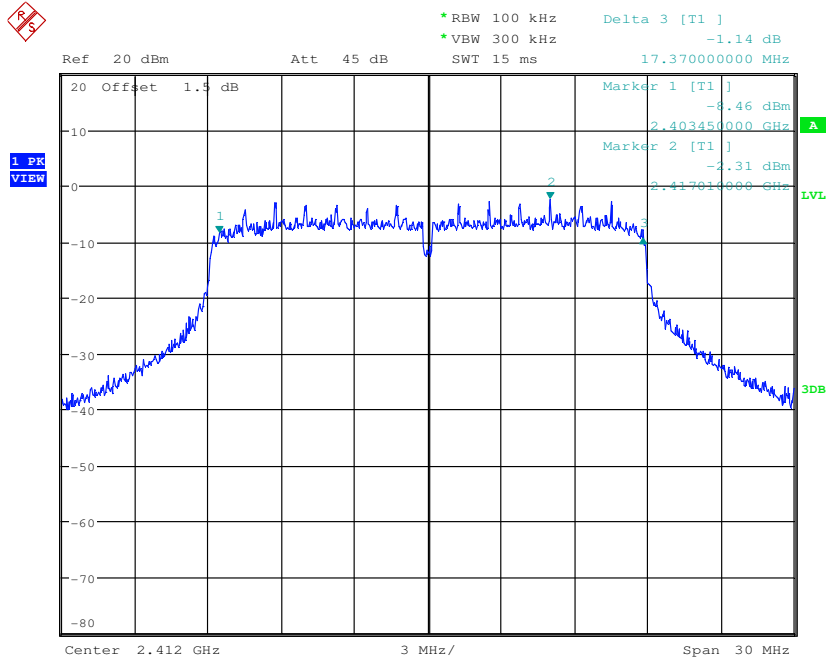


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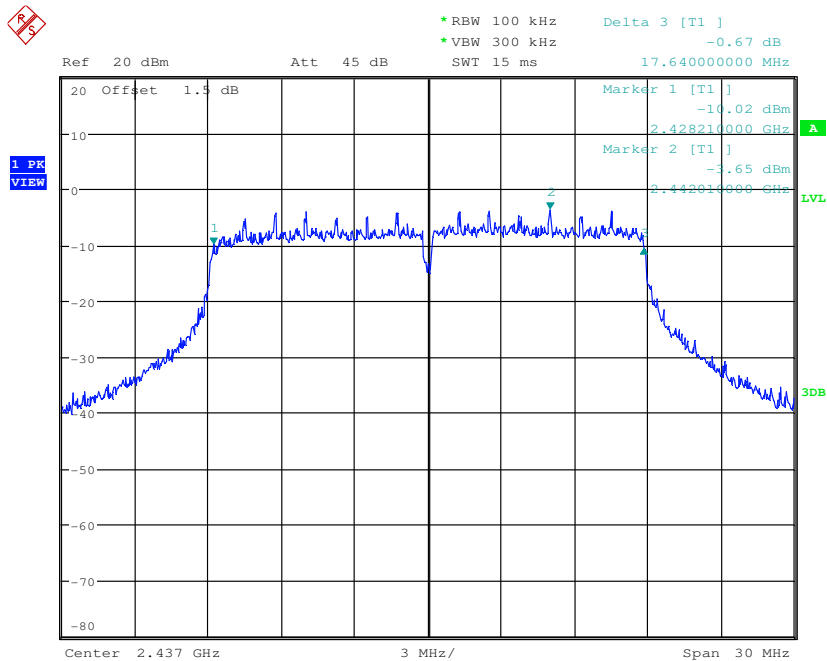
Report No.: HKES160300051102

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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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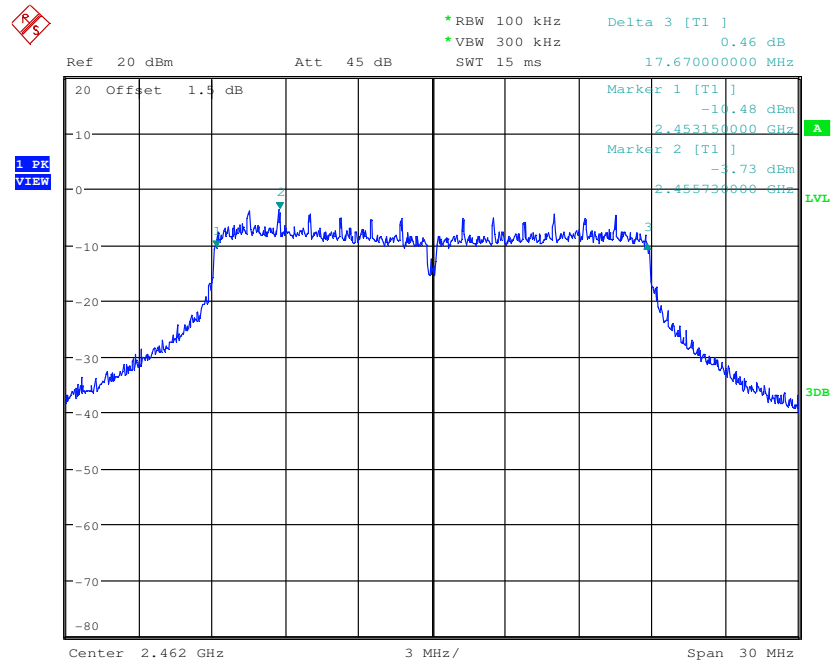


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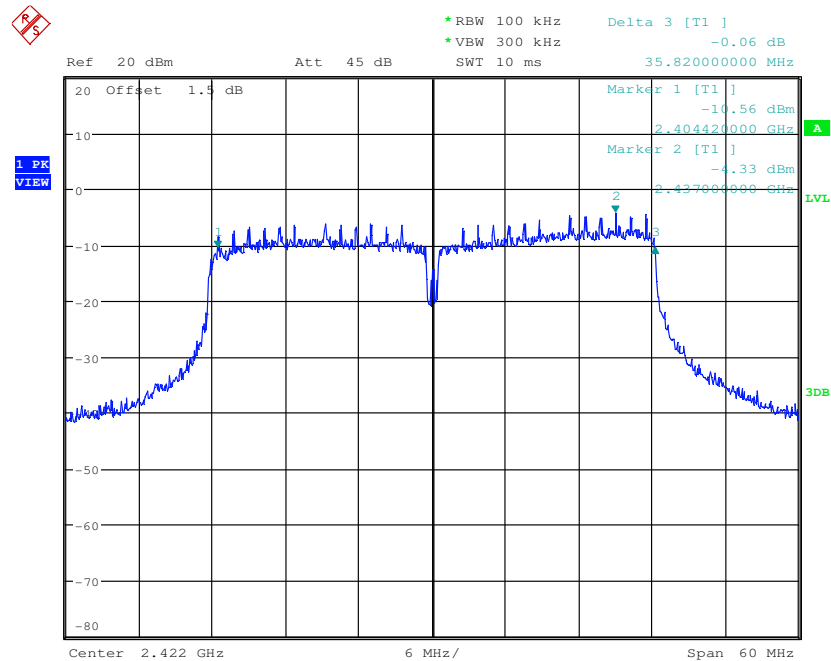
Report No.: HKES160300051102

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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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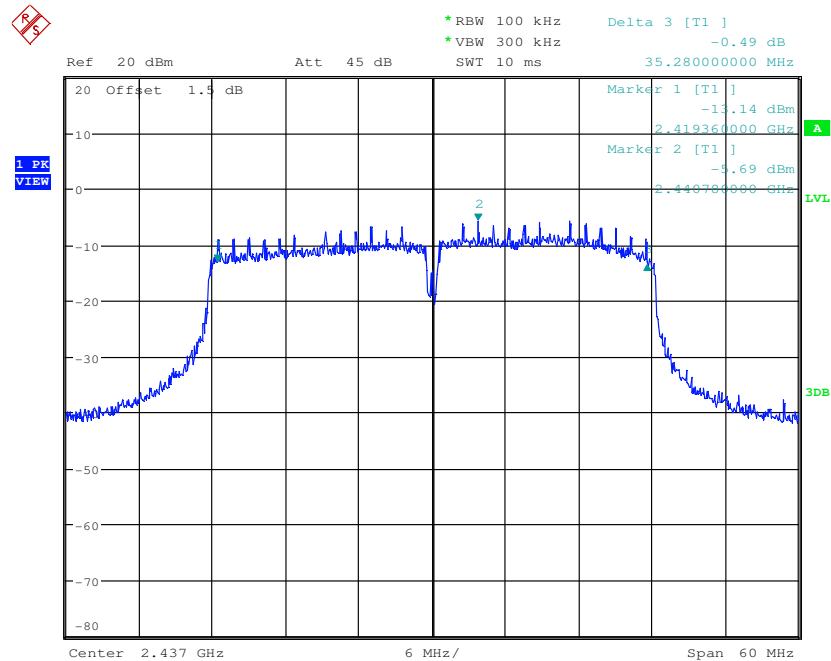


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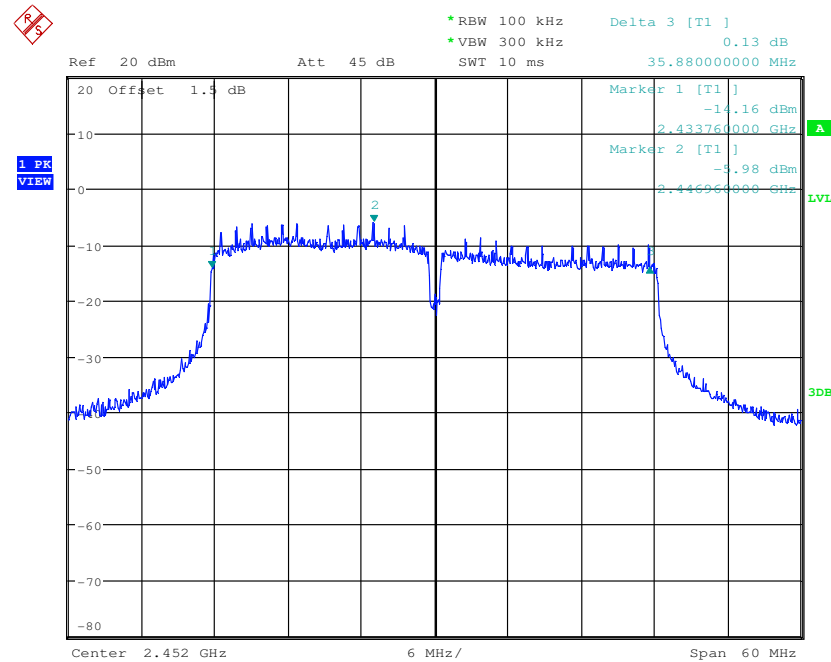
Report No.: HKES160300051102

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Test mode:	802.11n(HT40)	Test channel:	Middle
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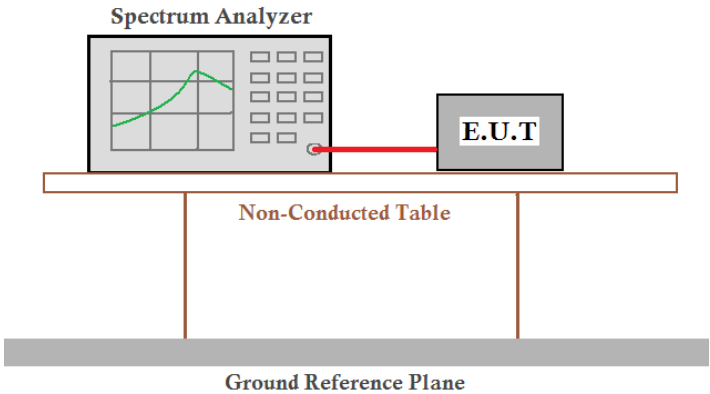


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013, section 11.10.2
Test Setup:	 <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	Antenna gain below 6dBi: 8dBm/3kHz (802.11 b & g) Antenna gain greater than 6dBi : Not exceed 8dBm/3kHz – 2.57 (directional gain-6) = 5.43dBm (802.11 n)
Test Results:	Pass



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Measurement Data

802.11b mode						
Test channel	Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)	Result	
	Ant.1	Ant.2	Ant.3			
Lowest	-8.49	-6.85	-7.66	≤8.00	Pass	
Middle	-8.63	-9.43	-9.84	≤8.00	Pass	
Highest	-8.84	-9.99	-11.08	≤8.00	Pass	
802.11g mode						
Test channel	Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)	Result	
	Ant.1	Ant.2	Ant.3			
Lowest	-14.10	-15.60	-16.24	≤8.00	Pass	
Middle	-17.64	-16.43	-17.60	≤8.00	Pass	
Highest	-16.11	-16.30	-17.83	≤8.00	Pass	
802.11n(HT20) mode						
Test channel	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	Ant.1	Ant.2	Ant.3	Total		
Lowest	-13.19	-15.84	-16.79	-10.22	≤5.43	Pass
Middle	-16.62	-16.59	-16.38	-11.76	≤5.43	Pass
Highest	-16.75	-18.39	-18.30	-12.97	≤5.43	Pass
802.11n(HT40) mode						
Test channel	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	Ant.1	Ant.2	Ant.3	Total		
Lowest	-17.36	-18.34	-18.56	-13.28	≤5.43	Pass
Middle	-16.67	-19.55	-17.70	-13.05	≤5.43	Pass
Highest	-19.45	-21.20	-18.89	-14.97	≤5.43	Pass

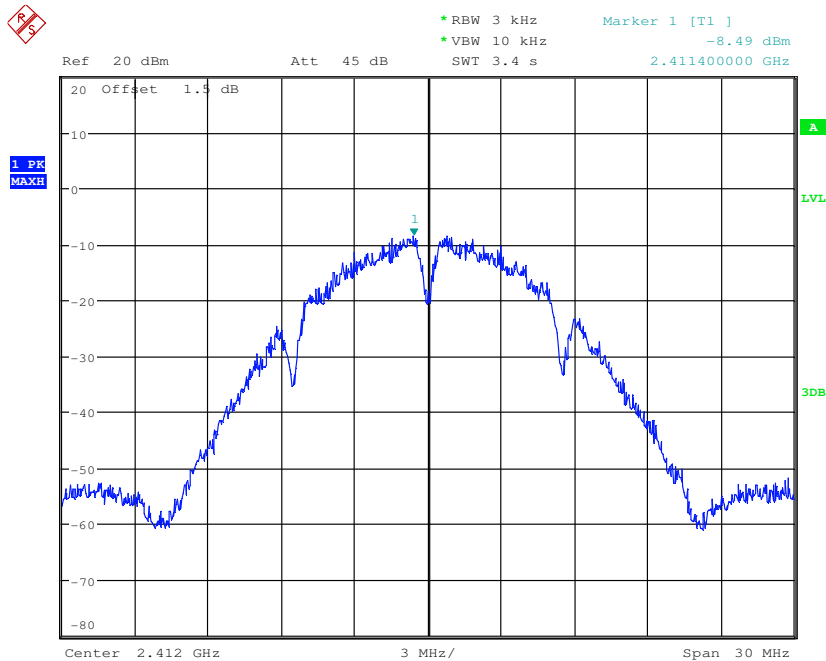
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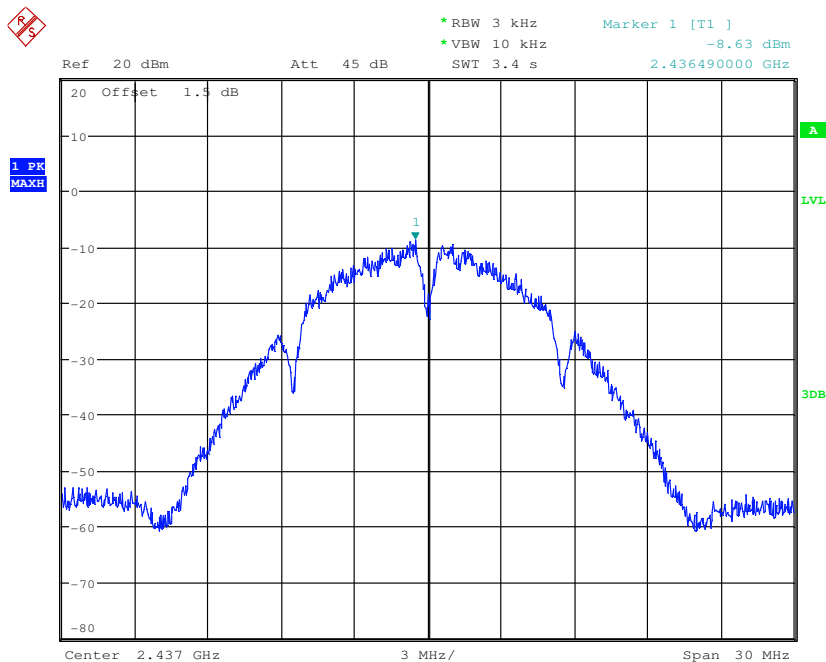
Test plot as follows:

Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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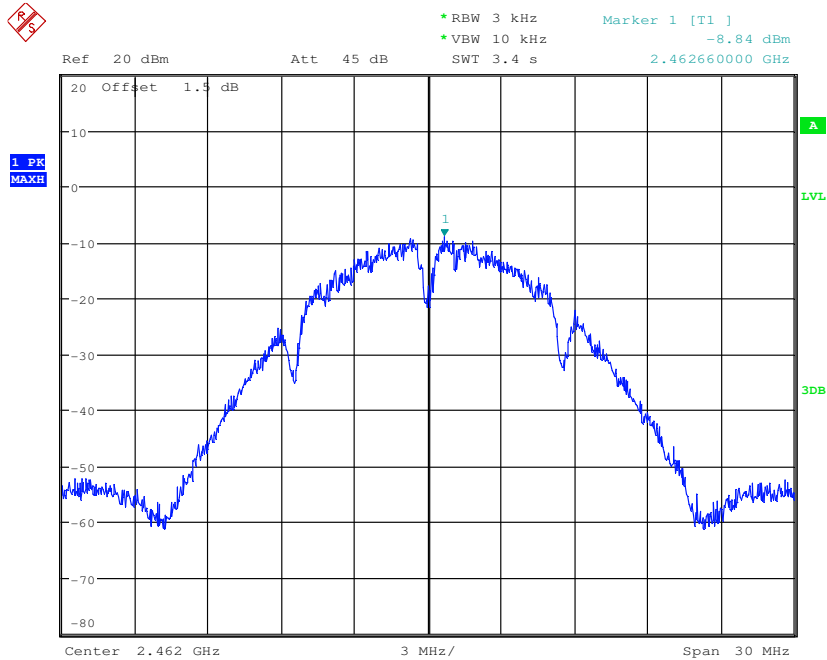


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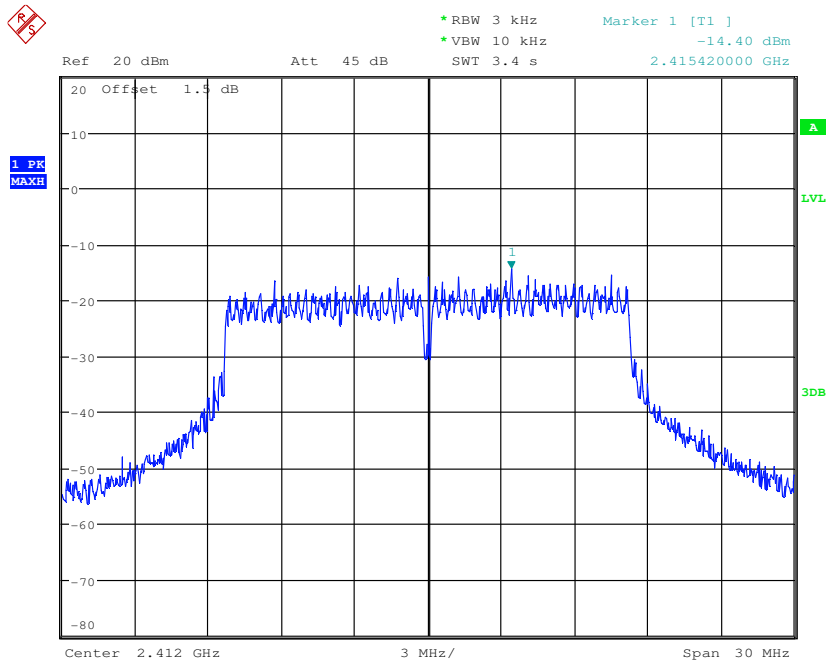
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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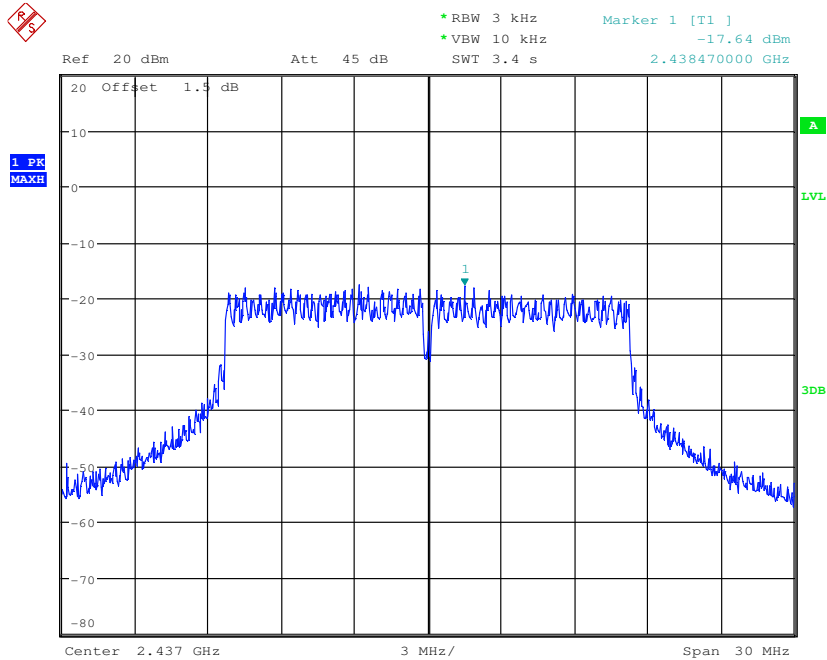


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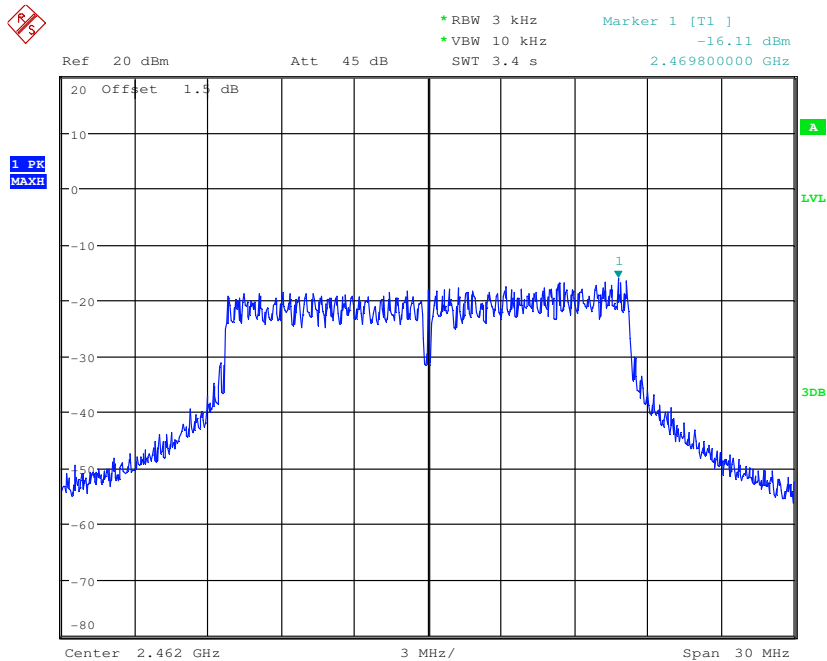
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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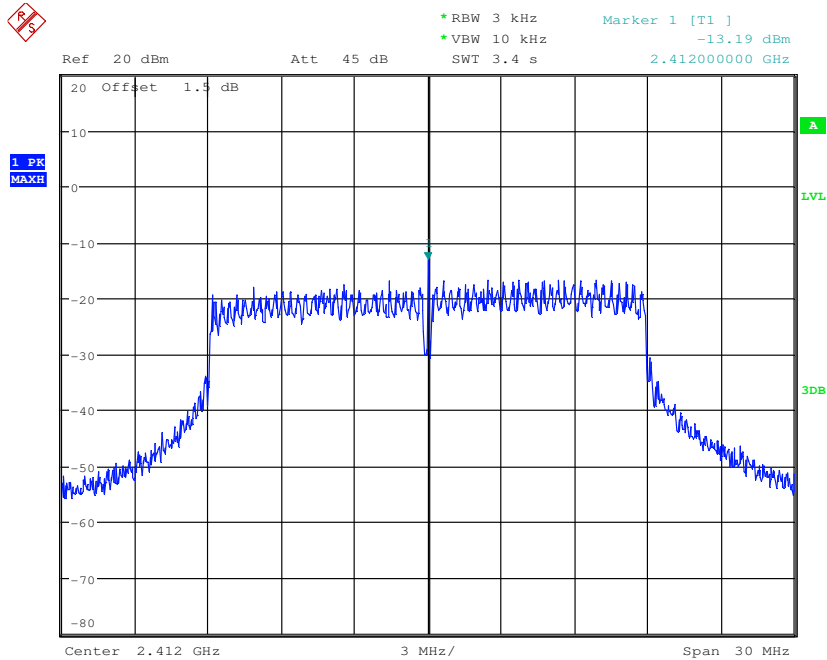


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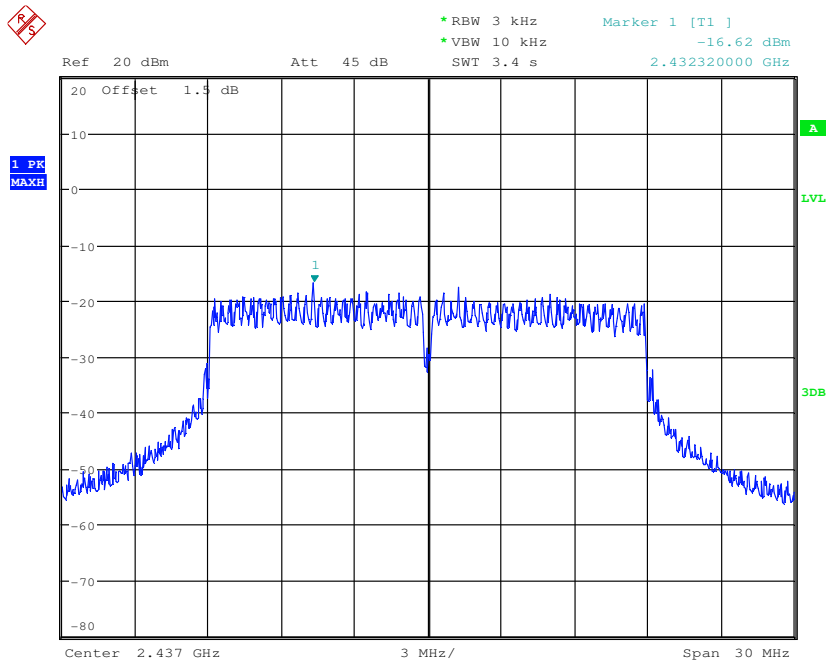
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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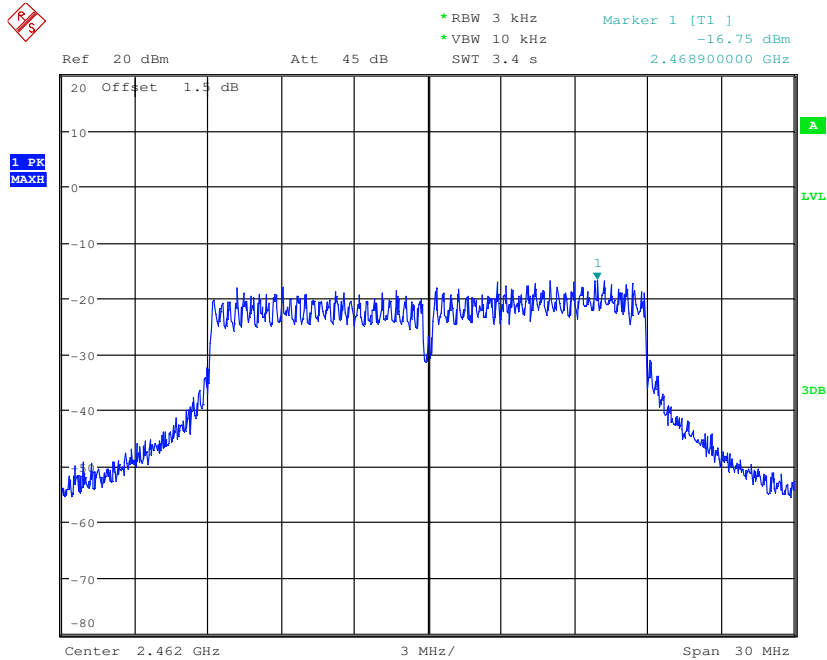


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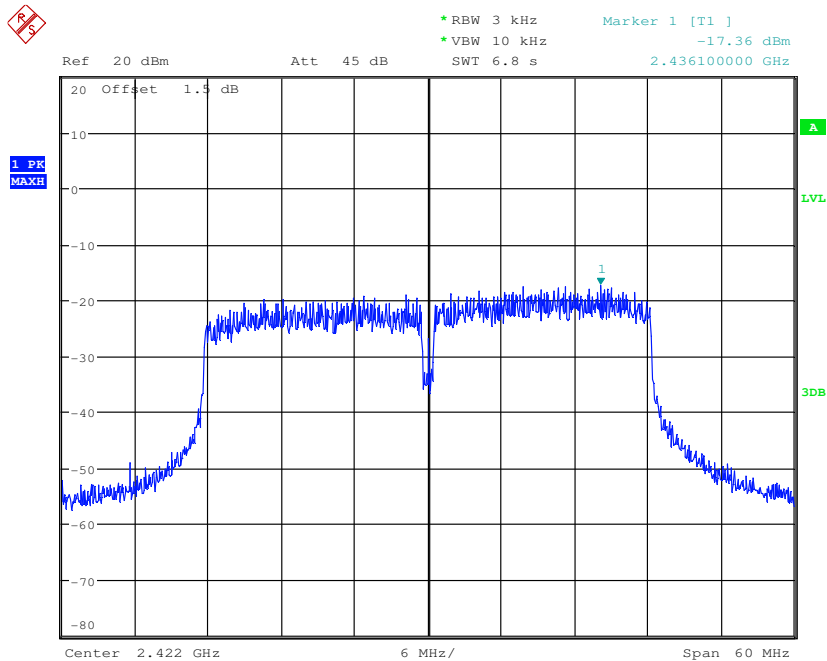
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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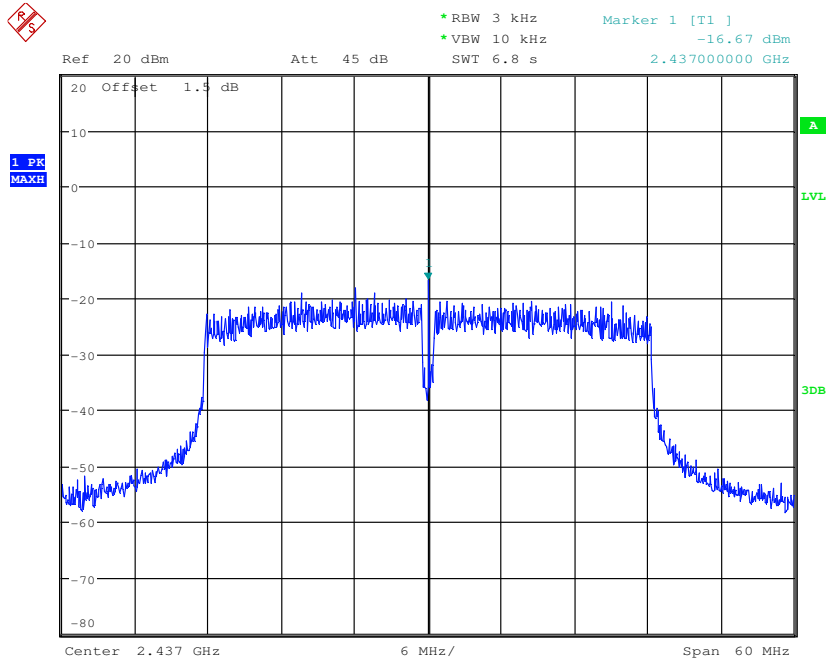
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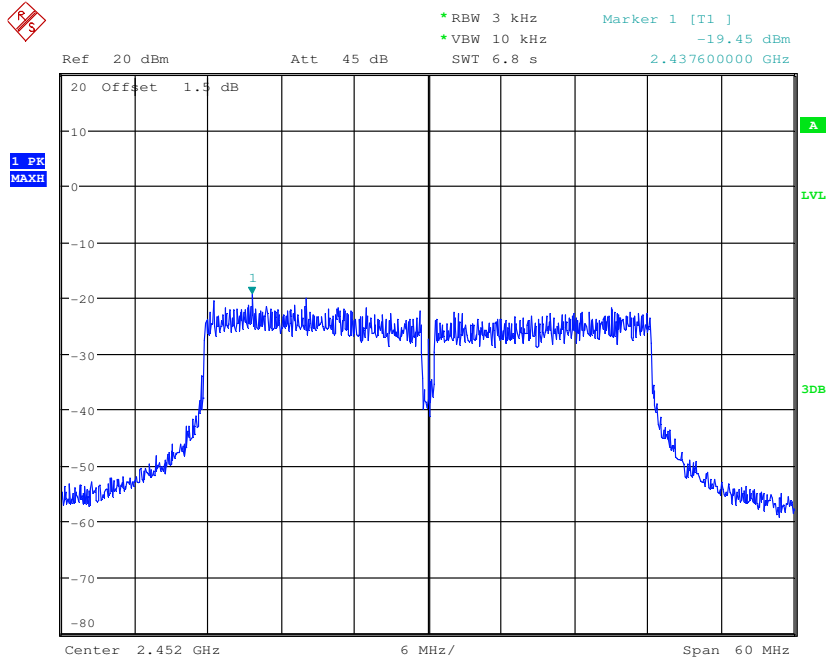
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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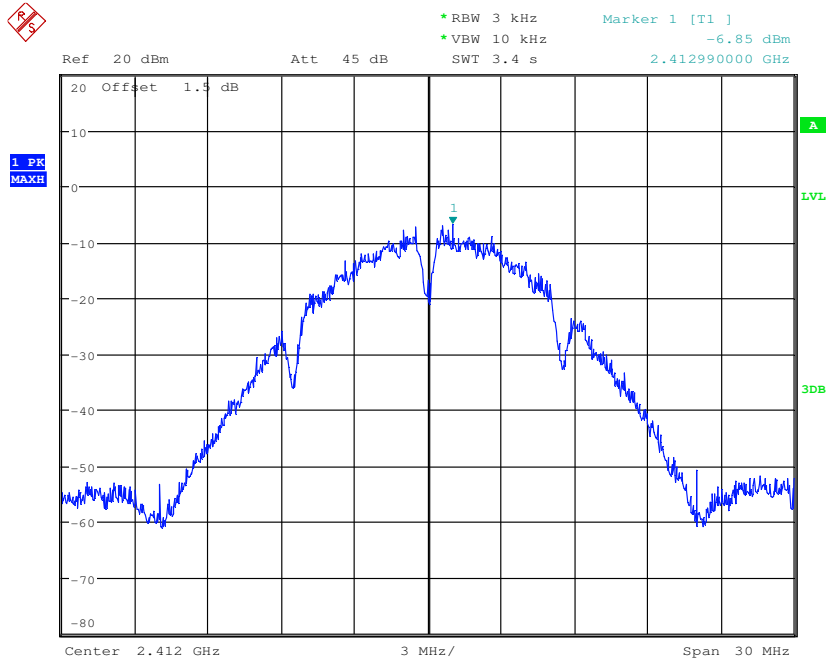
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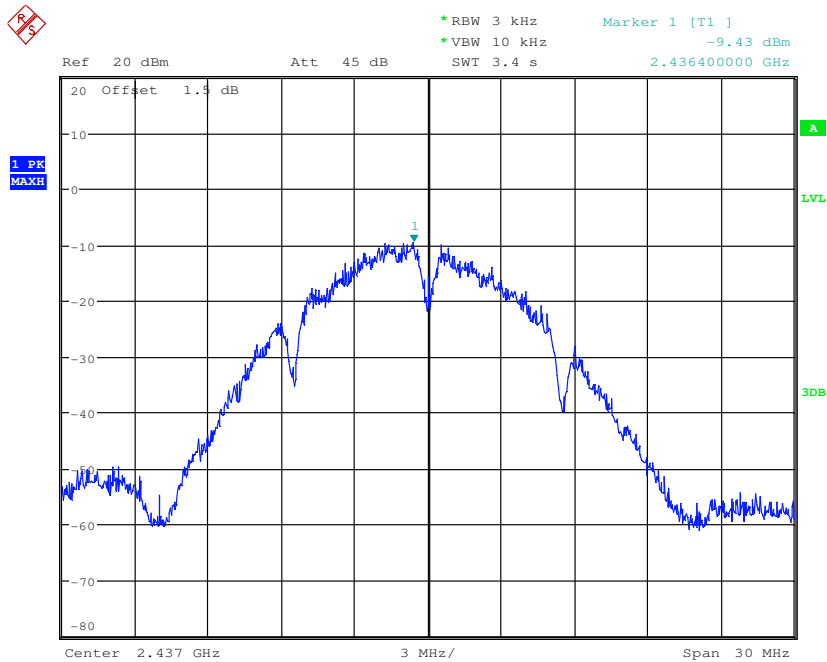
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Antenna 2

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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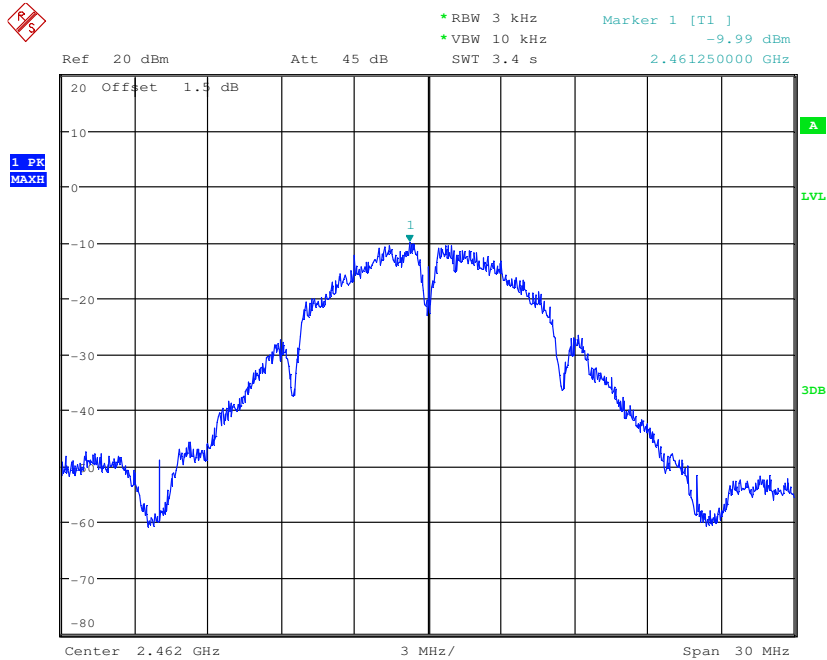


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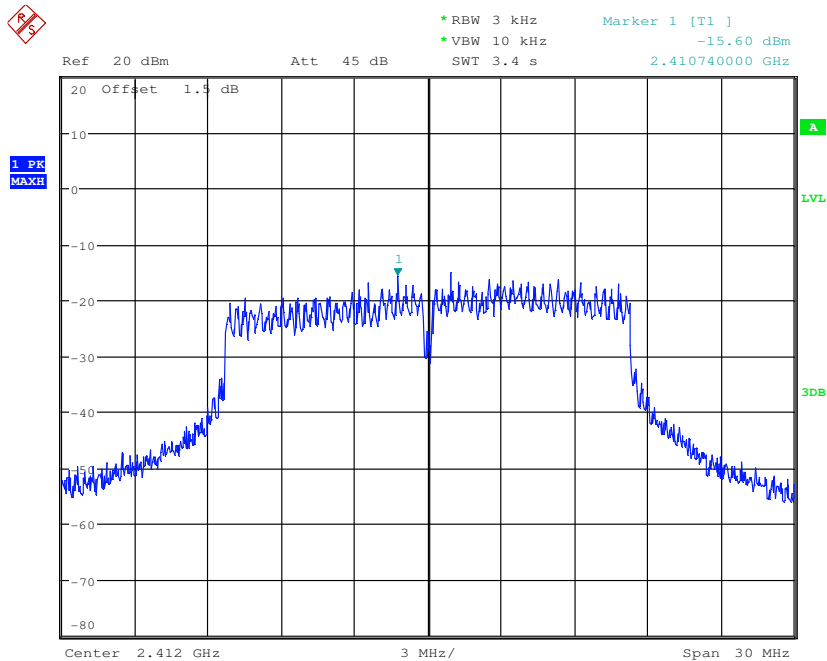
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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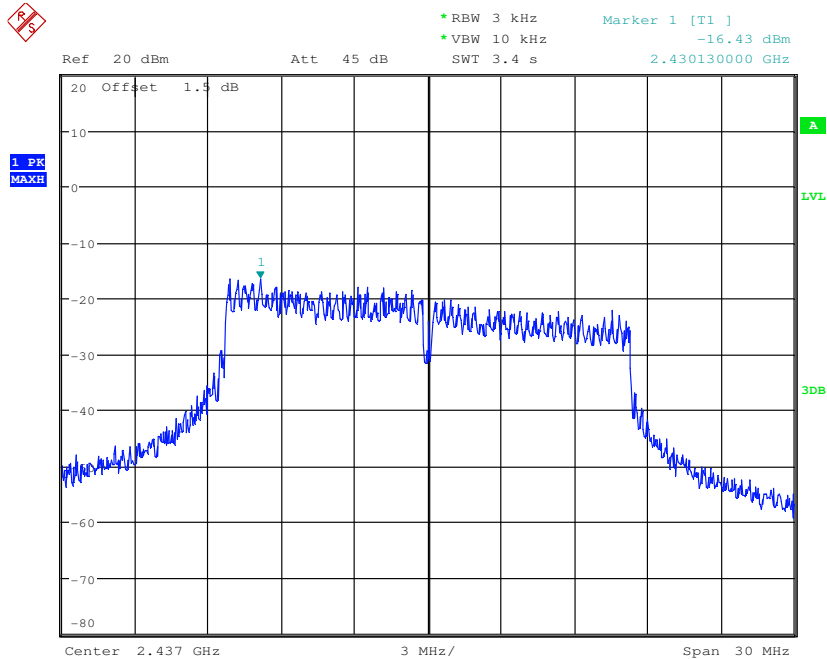


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

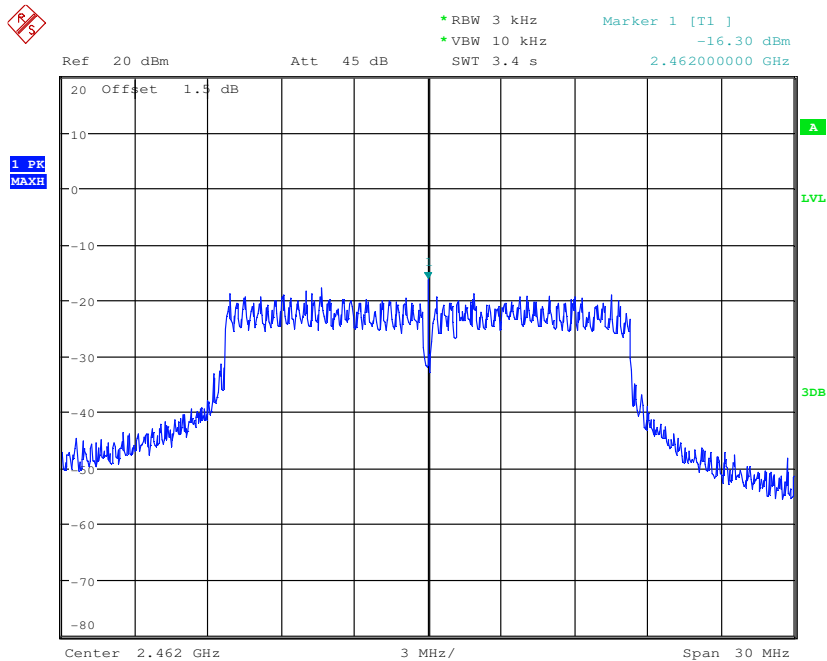
Report No.: HKES160300051102

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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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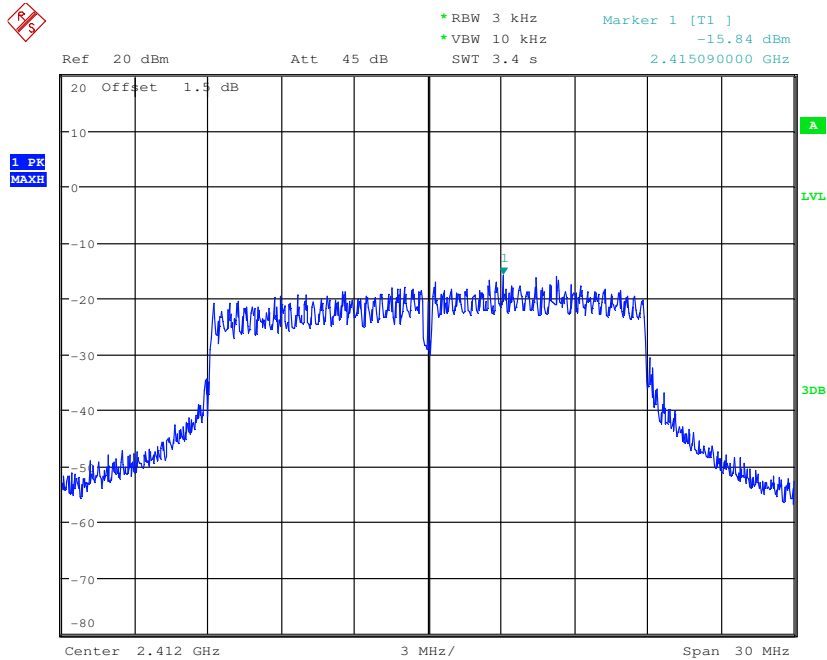


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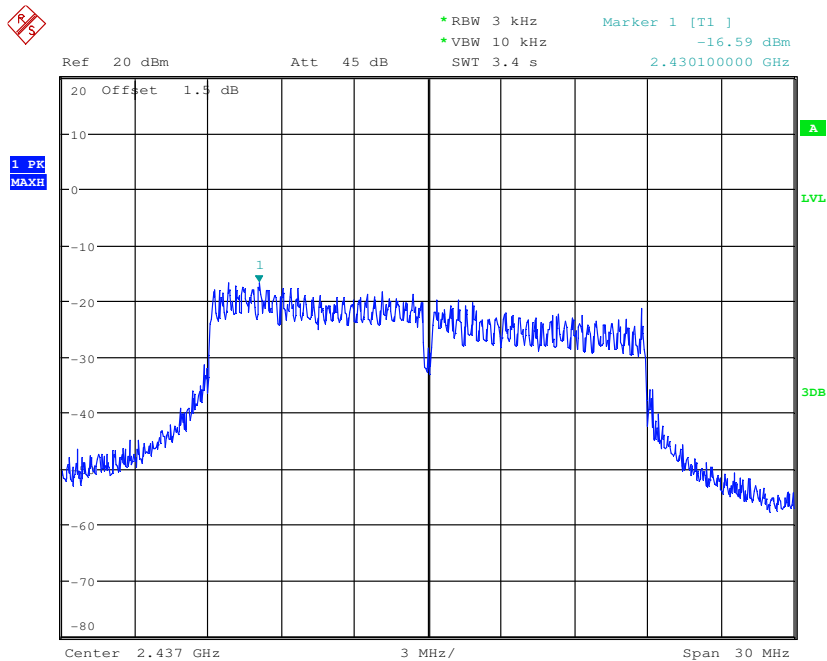
Report No.: HKES160300051102

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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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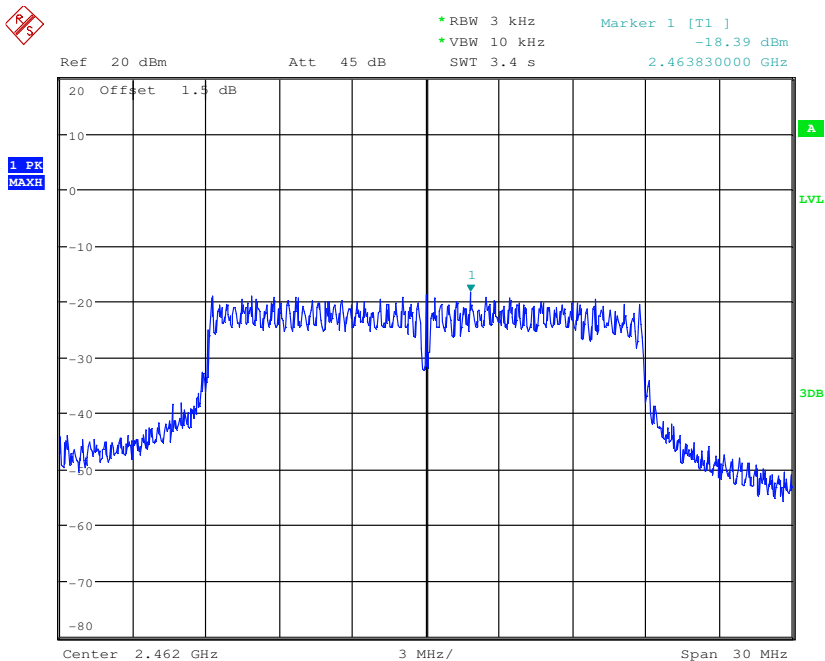


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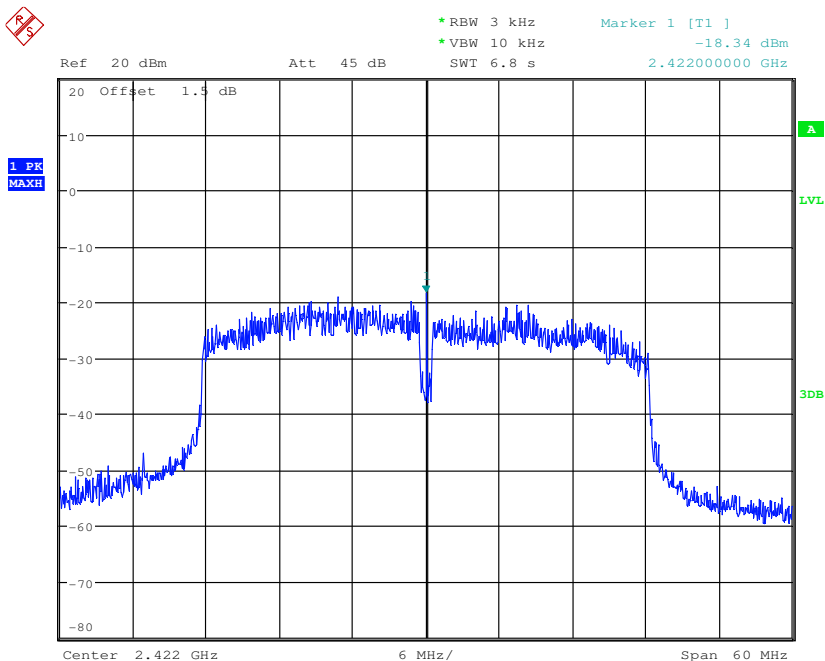
Report No.: HKES160300051102

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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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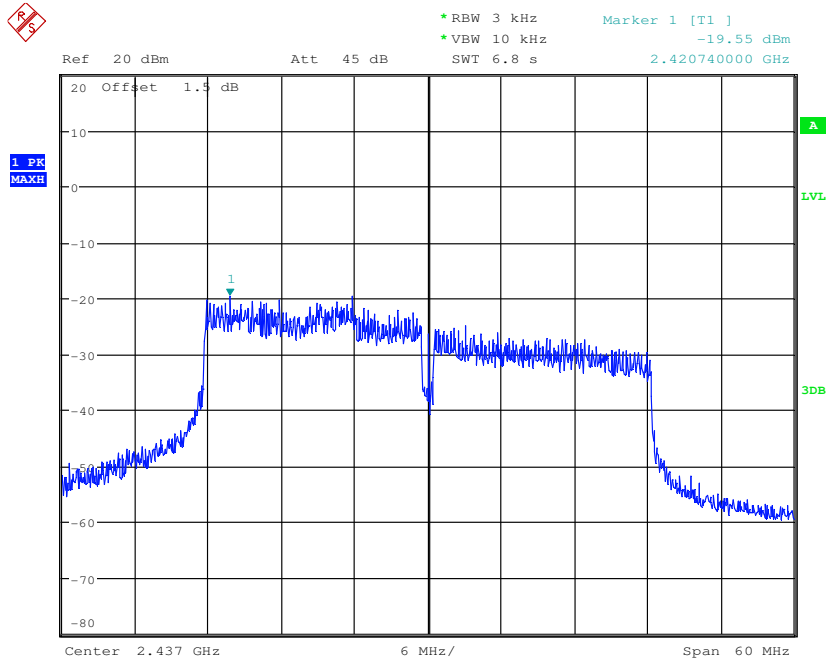
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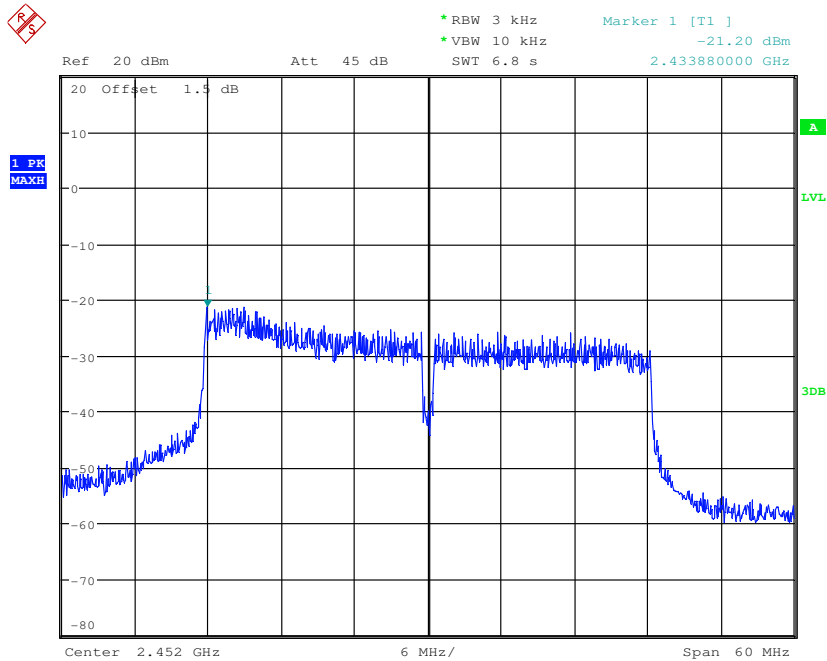
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: HKES160300051102
Page: 73 of 191

Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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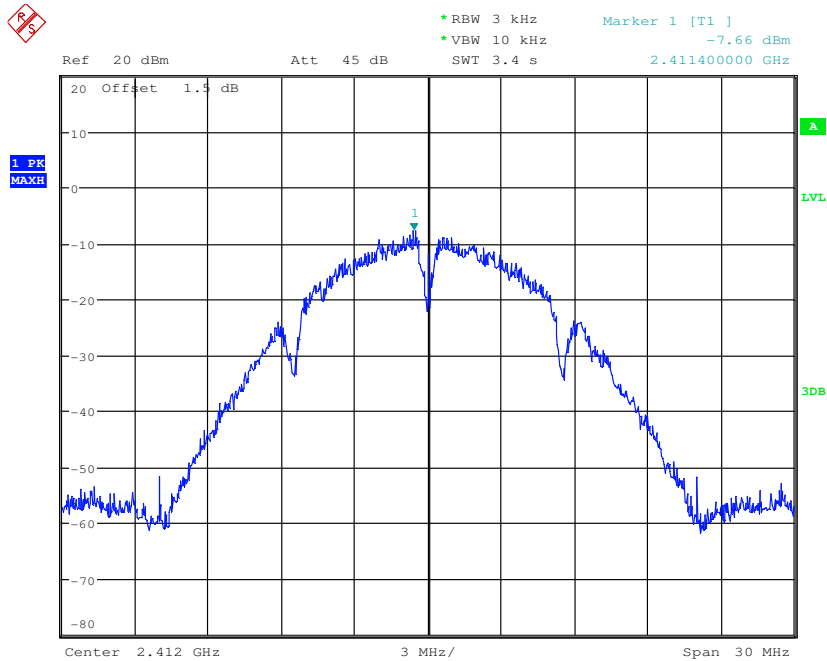


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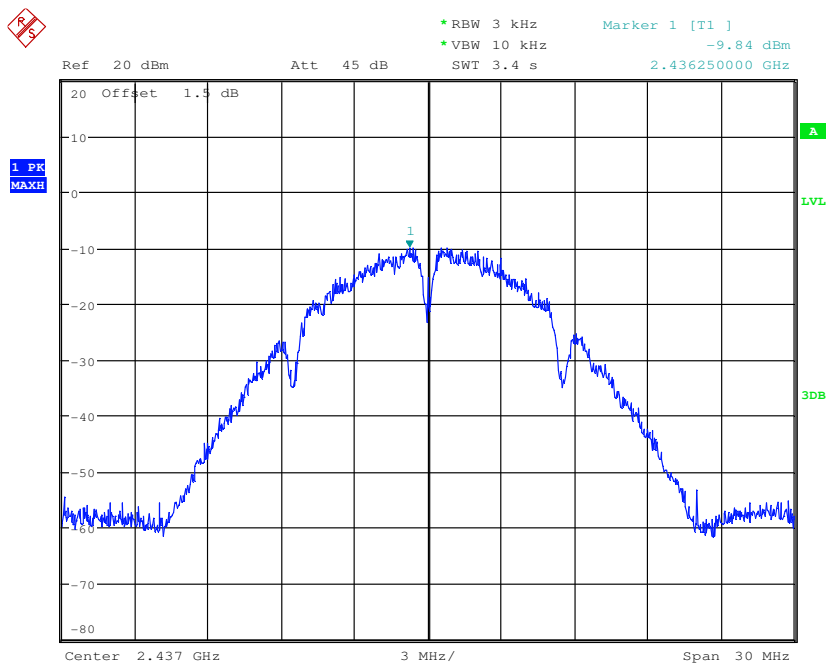
Report No.: HKES160300051102
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Antenna 3

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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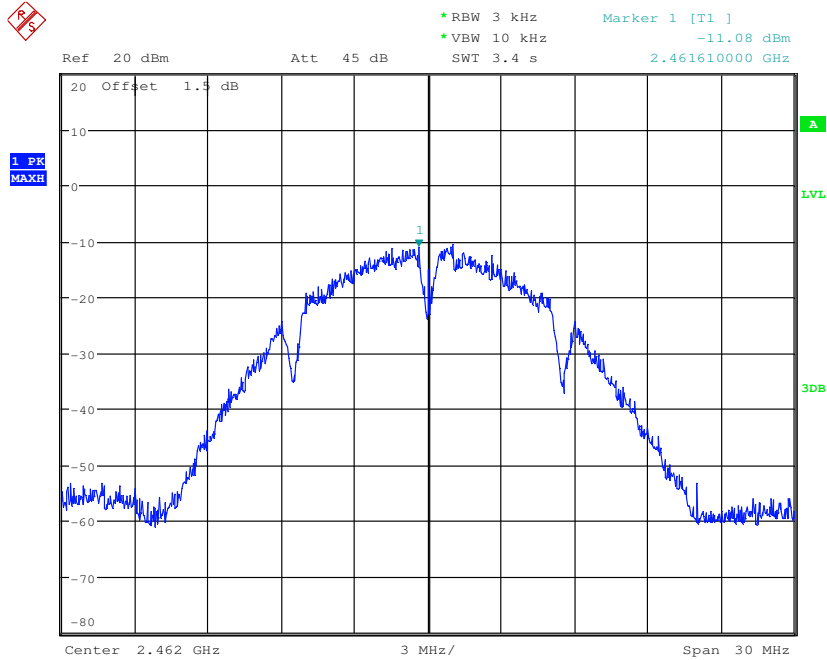


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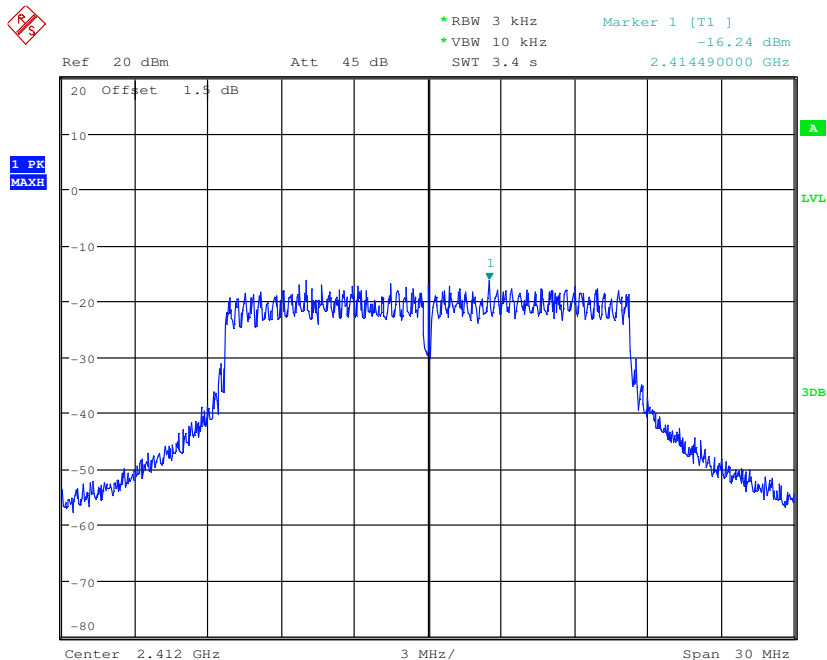
Report No.: HKES160300051102

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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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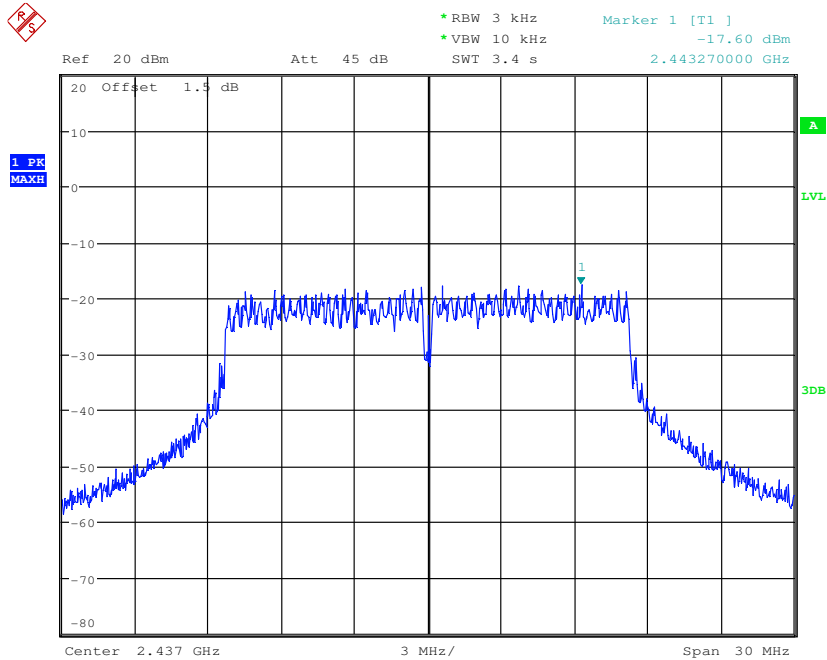


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

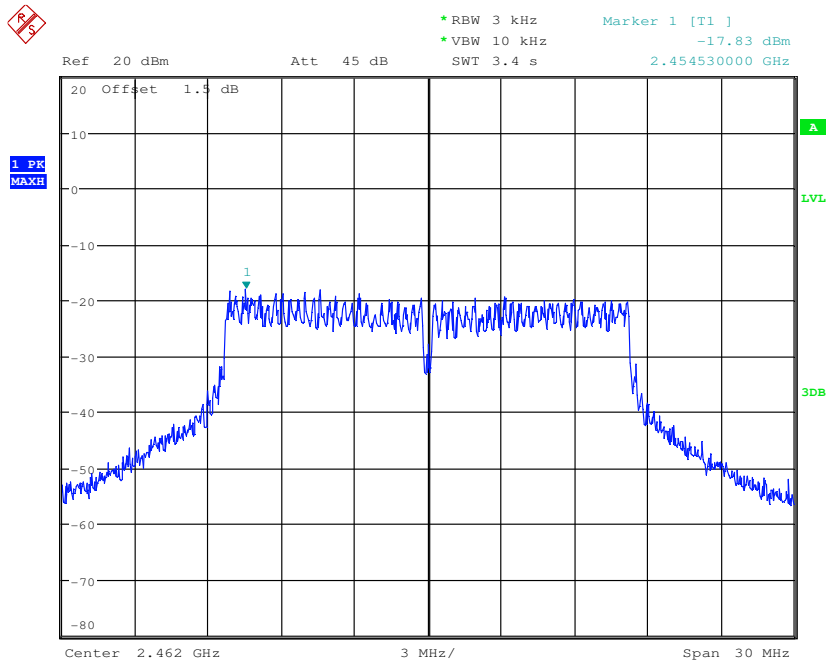
Report No.: HKES160300051102

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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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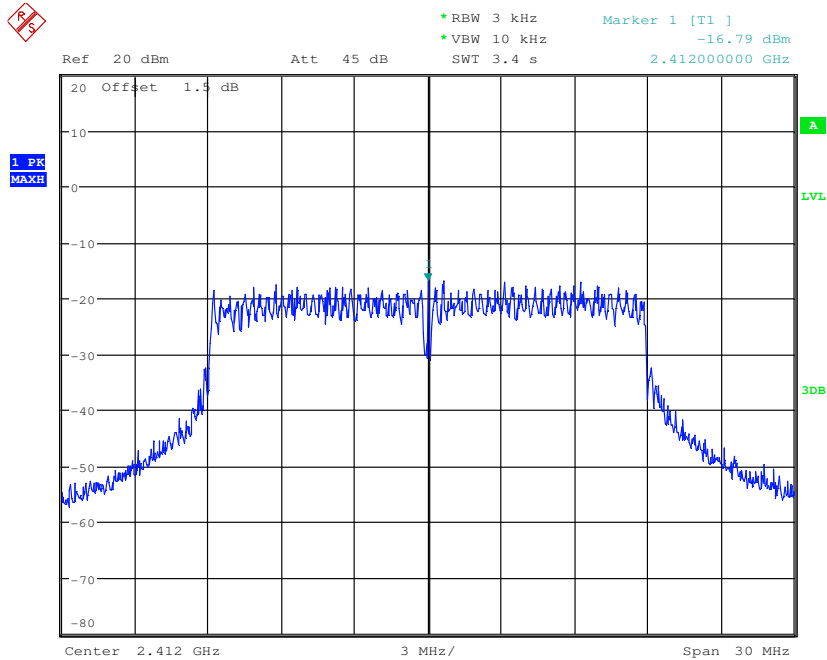


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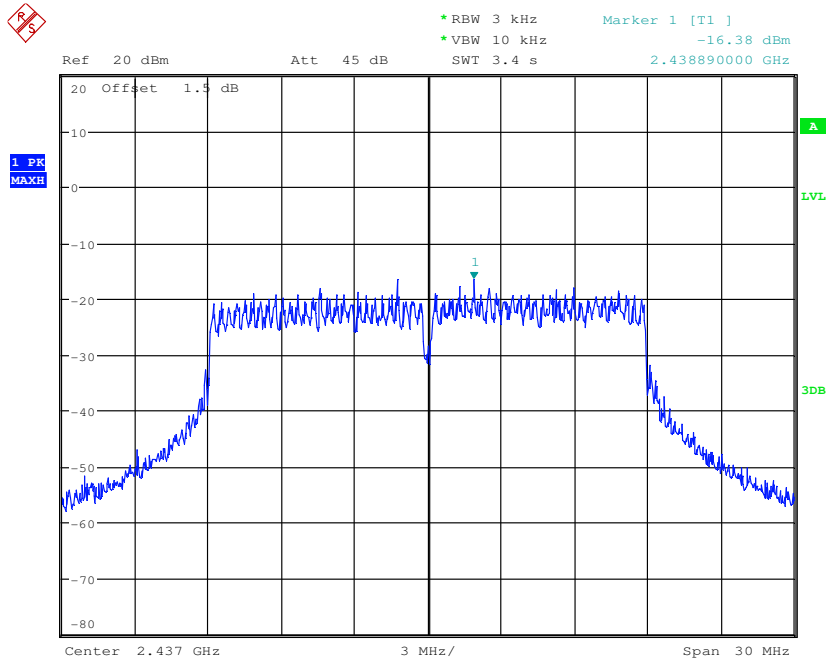
Report No.: HKES160300051102

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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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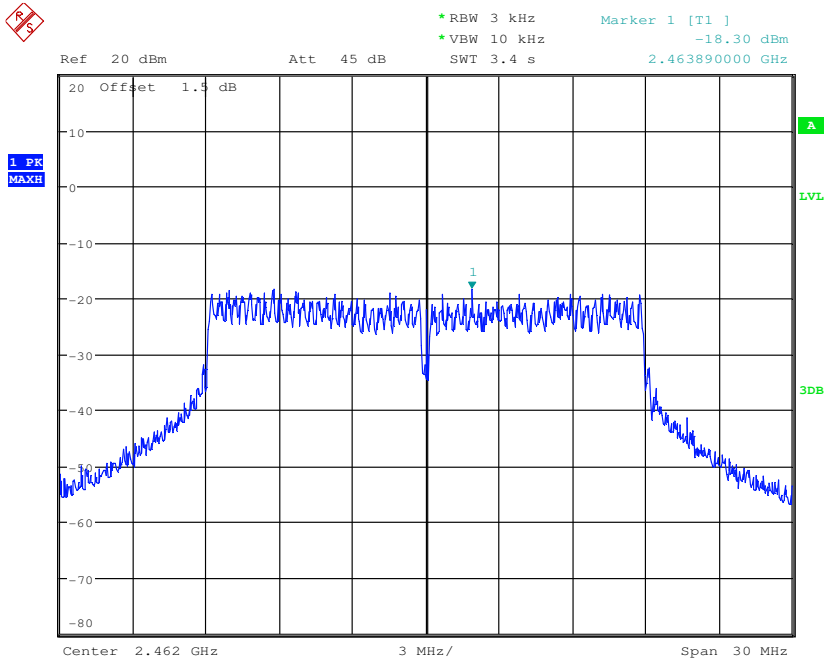
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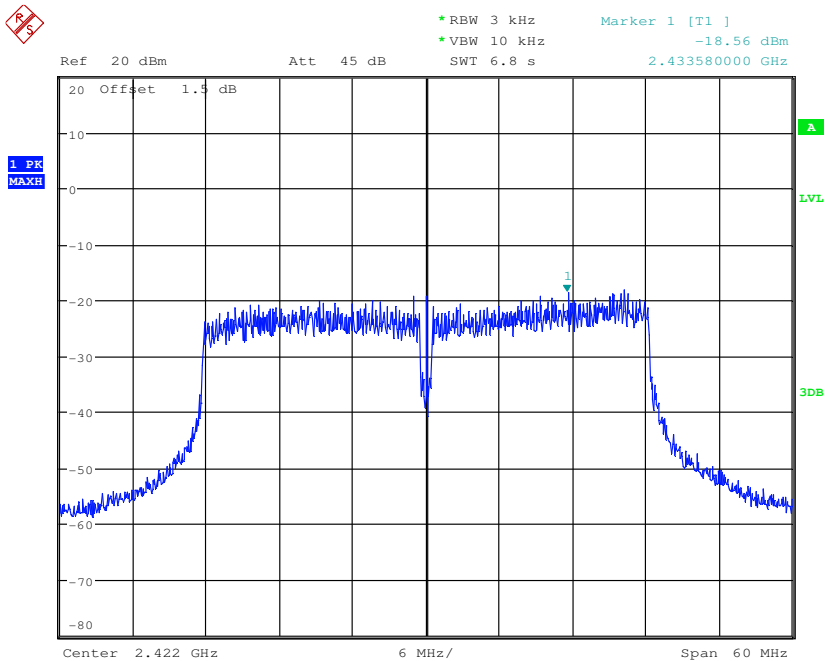
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Report No.: HKES160300051102
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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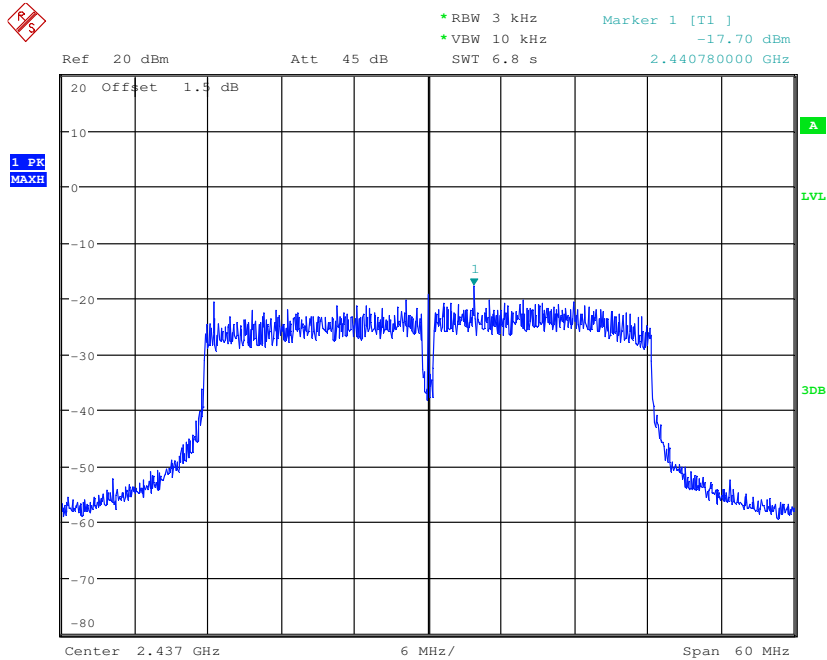


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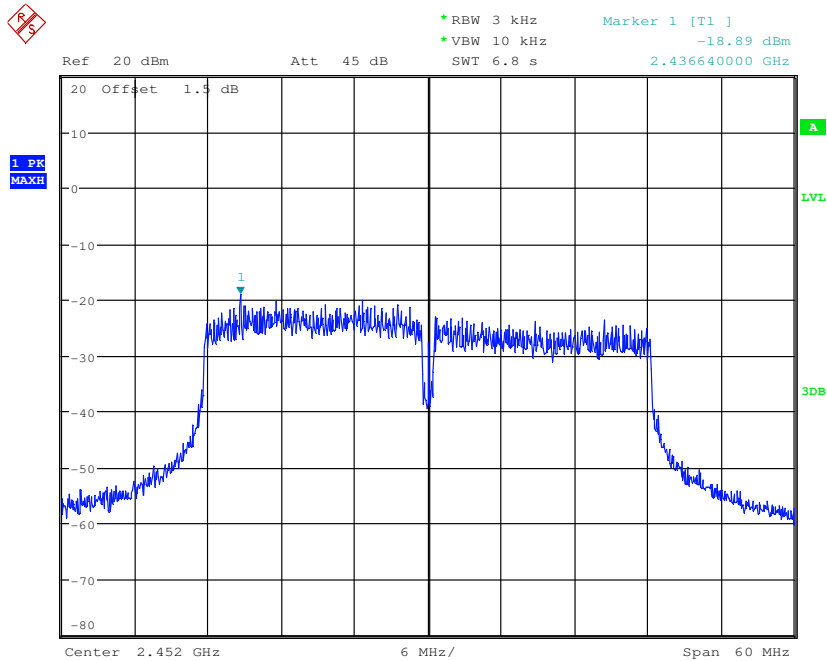
Report No.: HKES160300051102

Page: 79 of 191

Test mode:	802.11n(HT40)	Test channel:	Middle
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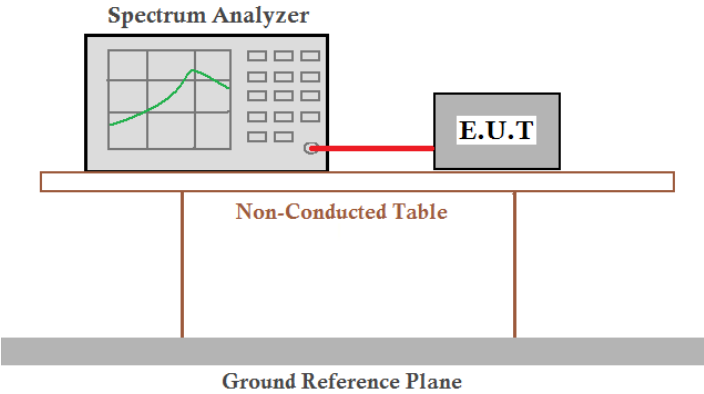


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.6 Band-edge for RF Conducted Emissions

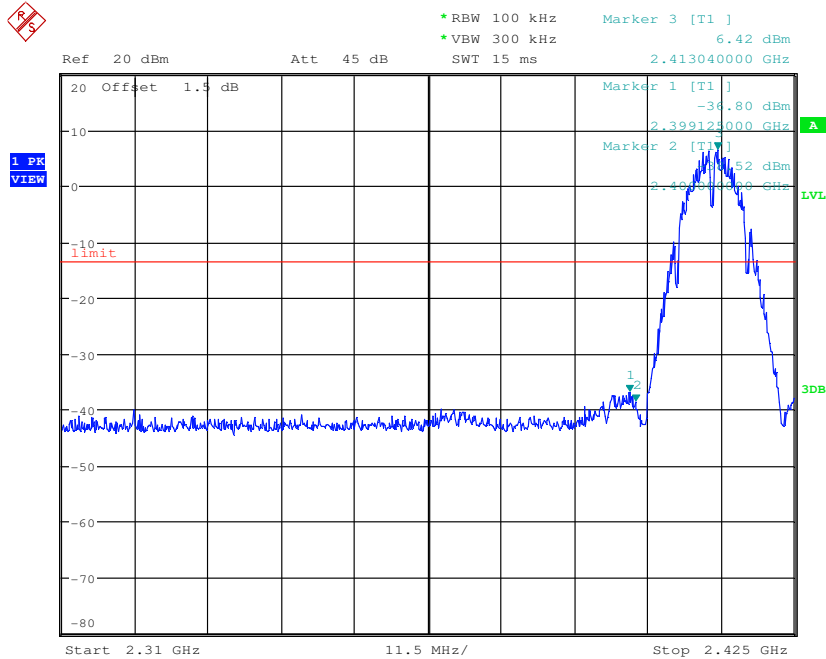
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013, section 11.13.2
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



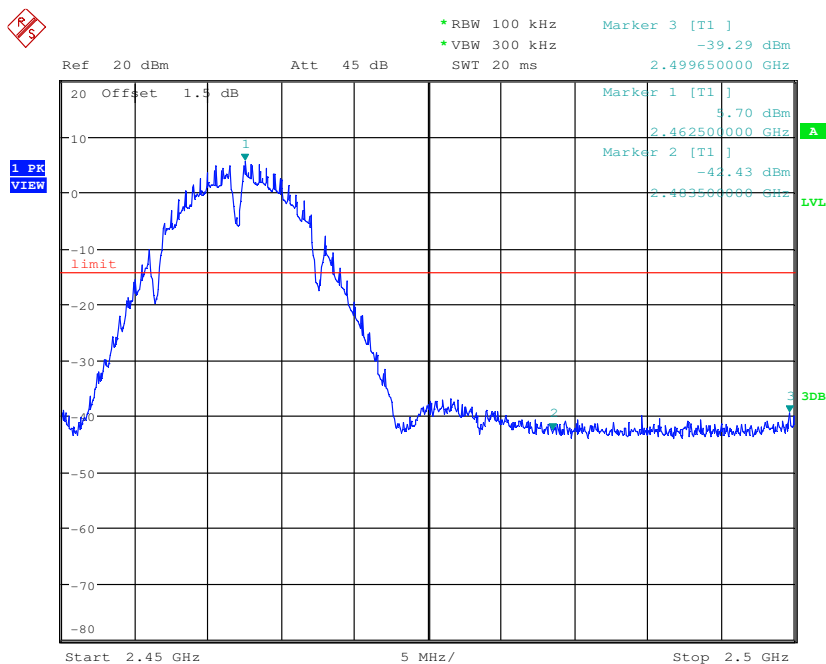
Test plot as follows:

Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Highest
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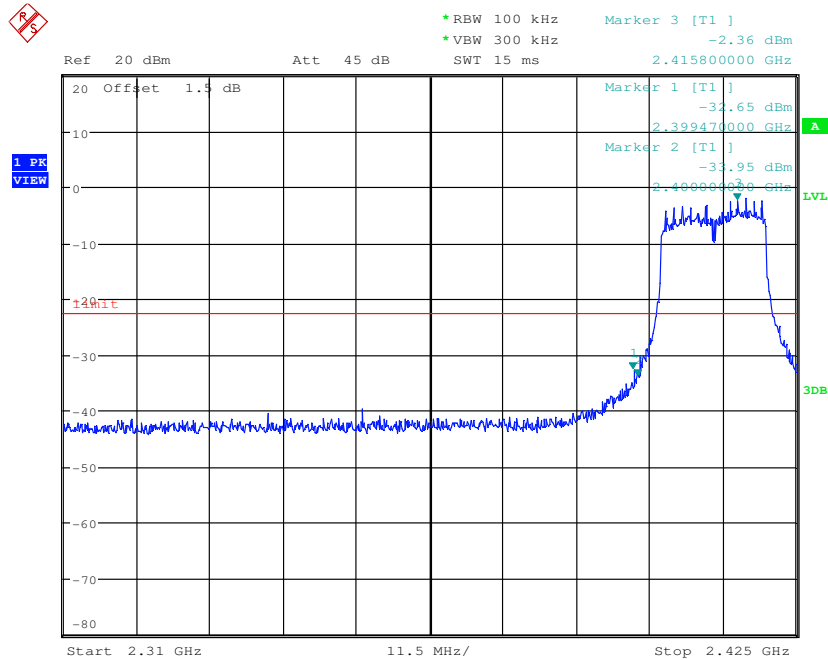


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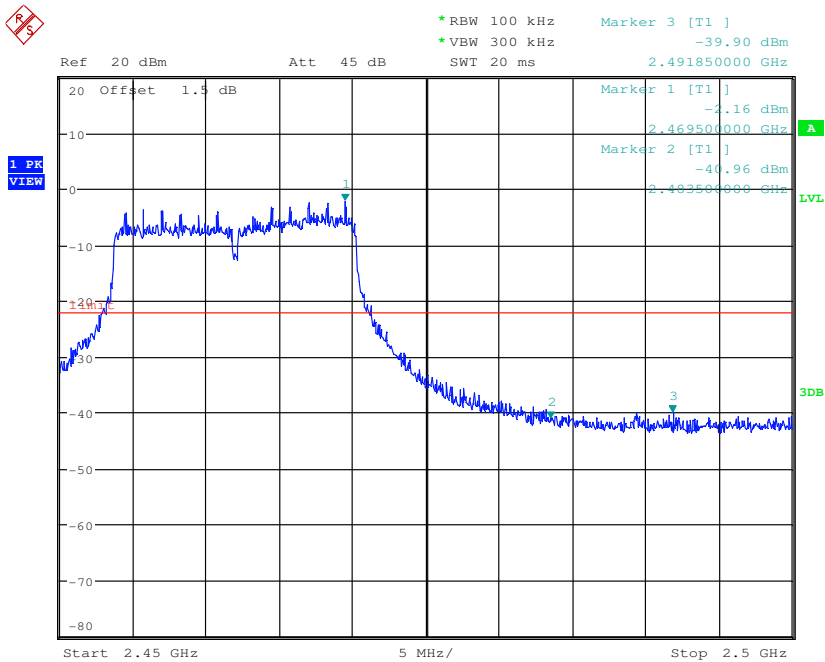
Report No.: HKES160300051102

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Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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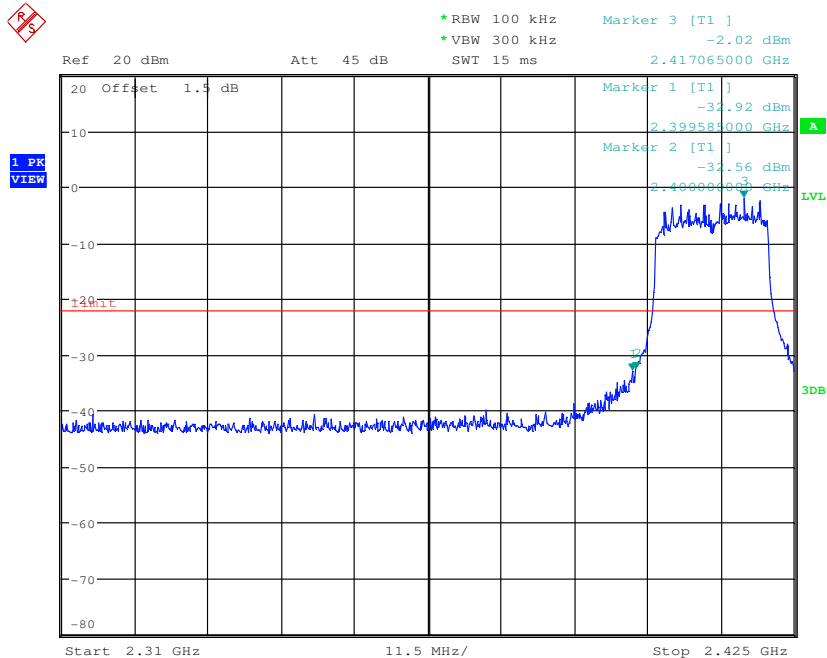
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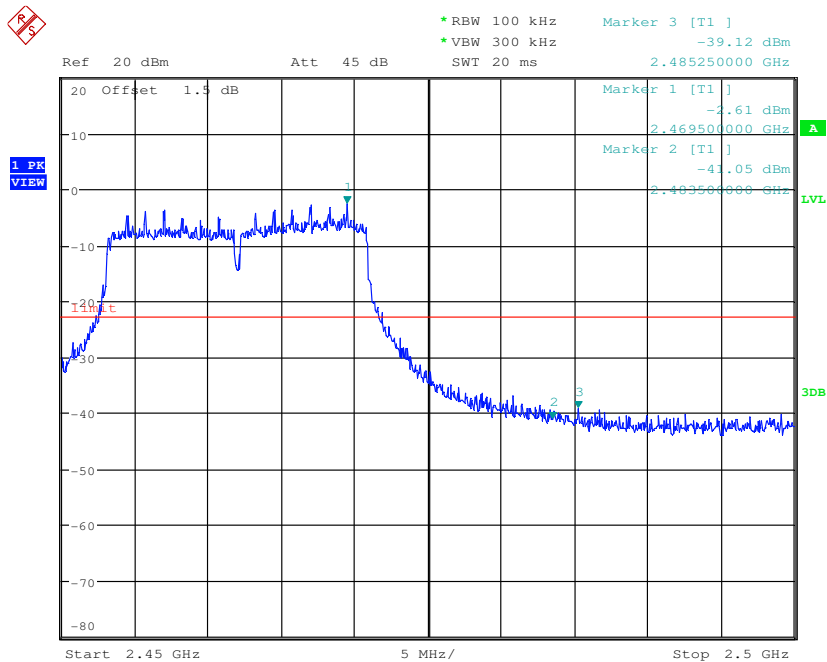
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Highest
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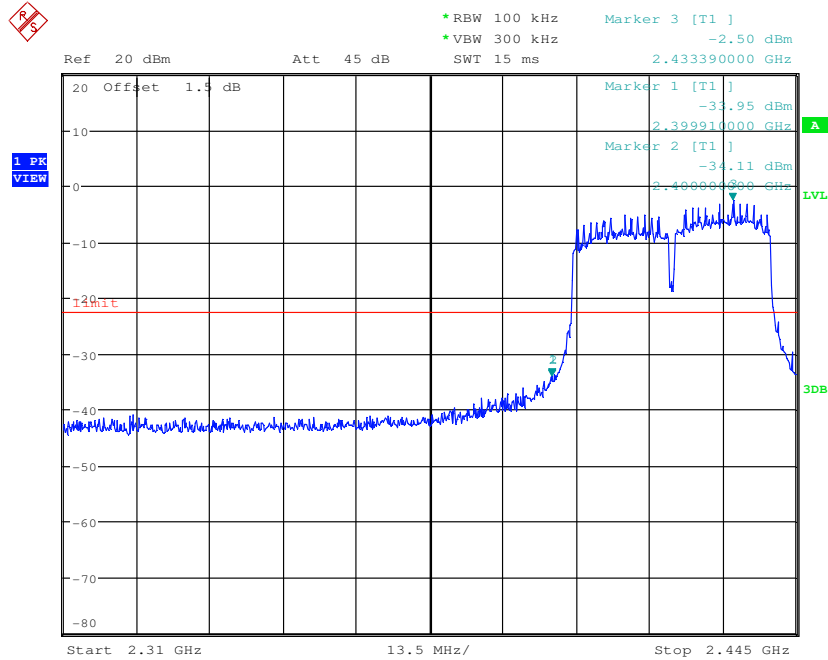


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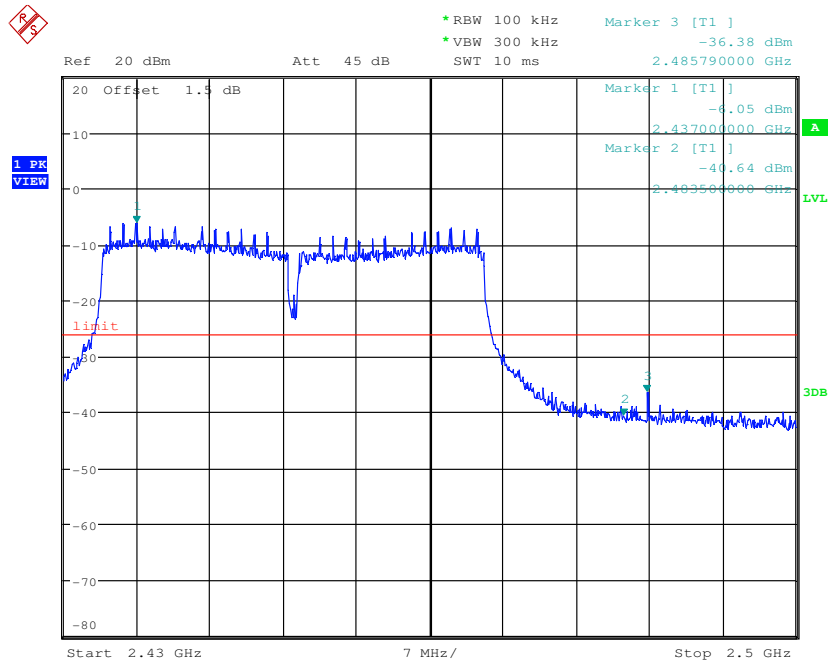
Report No.: HKES160300051102

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Test mode:	802.11n(HT40)	Test channel:	Lowest
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Test mode:	802.11n(HT40)	Test channel:	Highest
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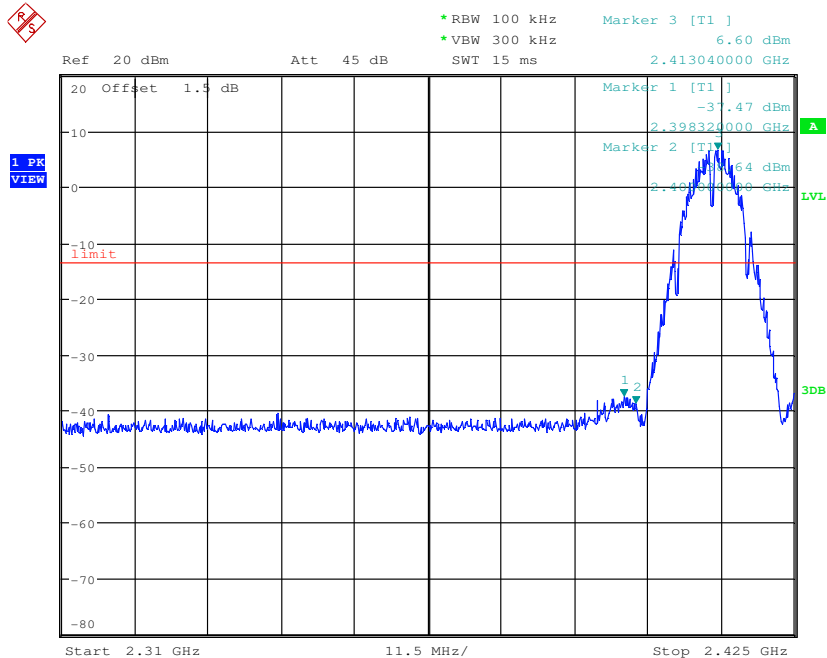


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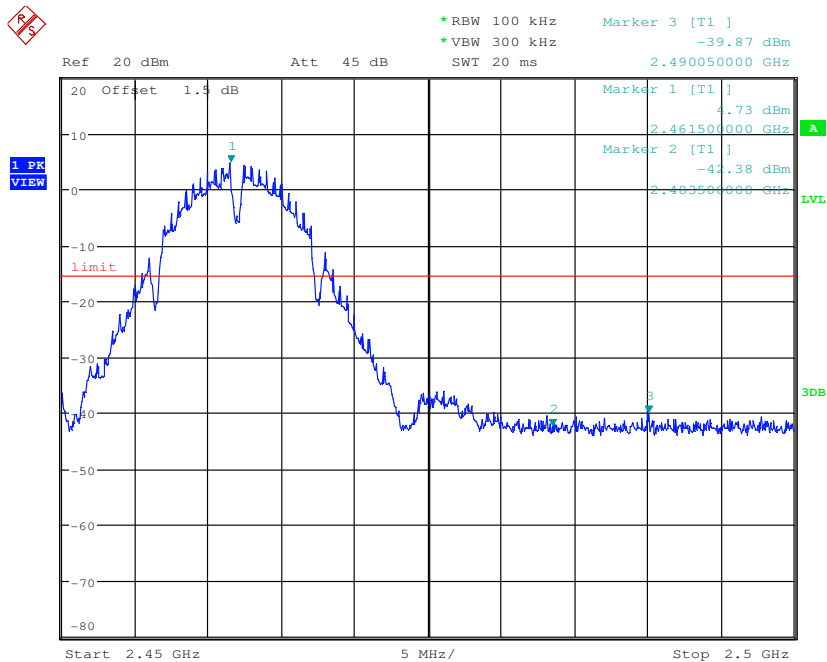
Report No.: HKES160300051102
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Antenna 2

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Highest
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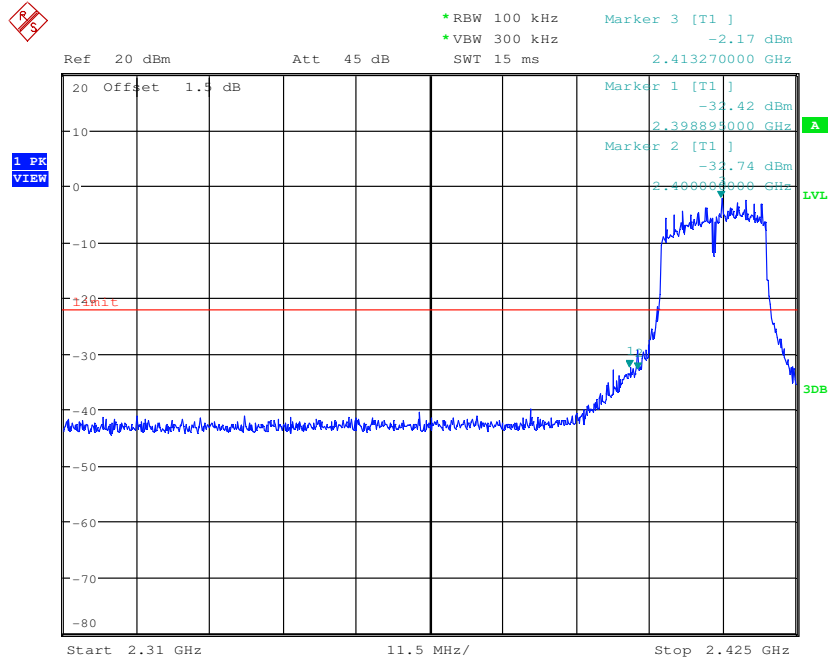


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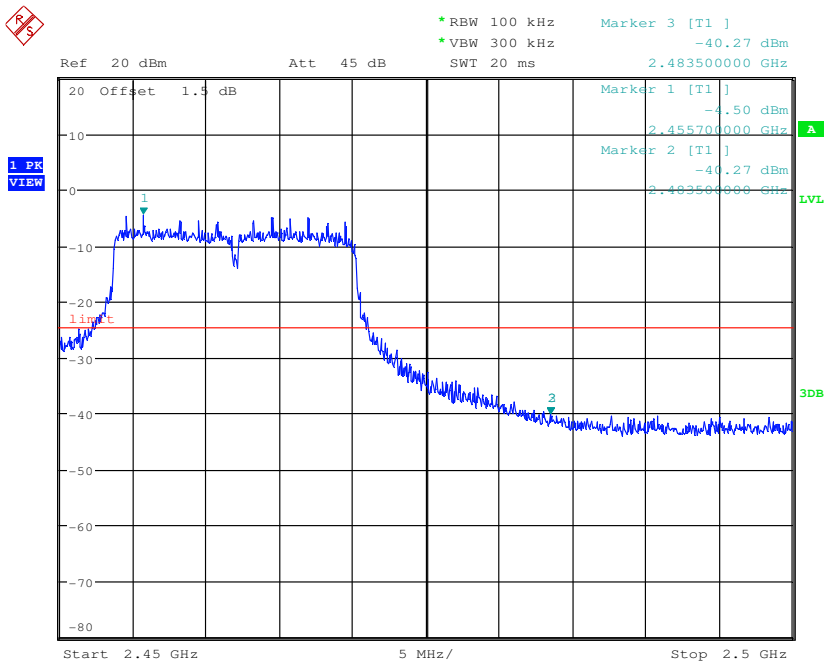
Report No.: HKES160300051102

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Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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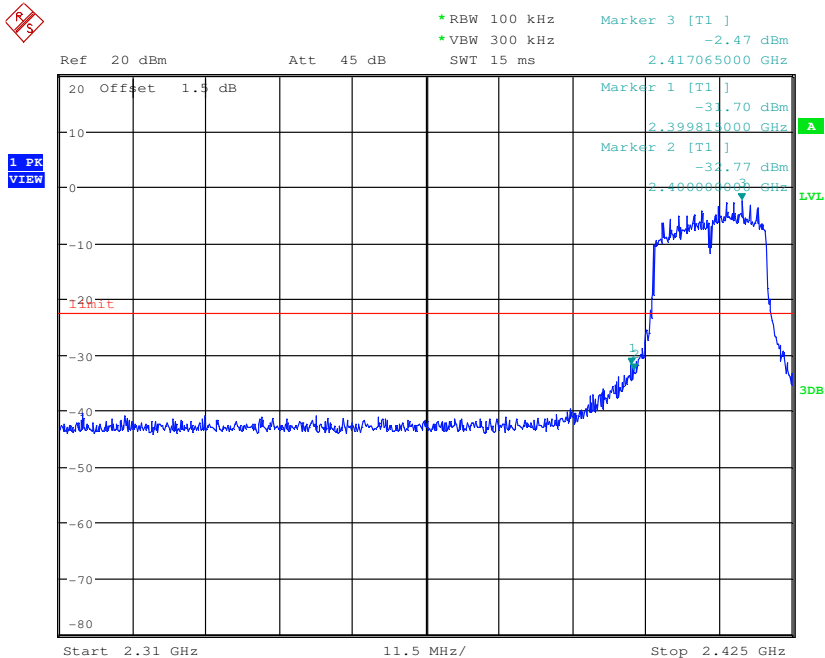
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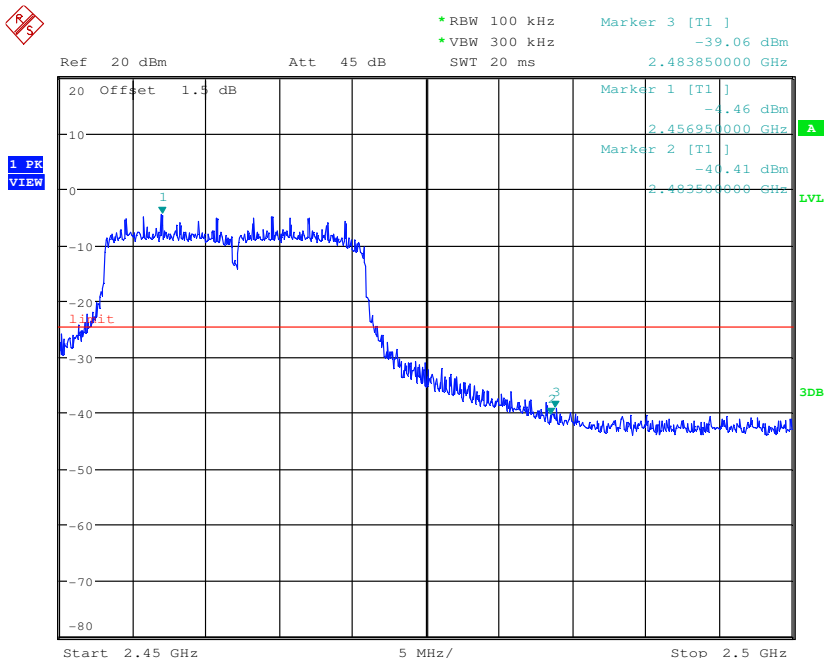
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Highest
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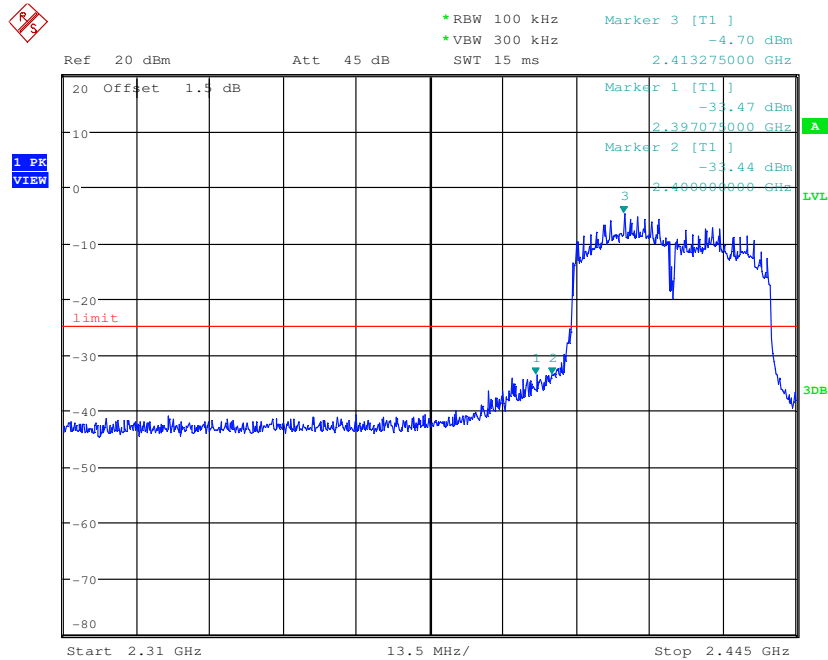


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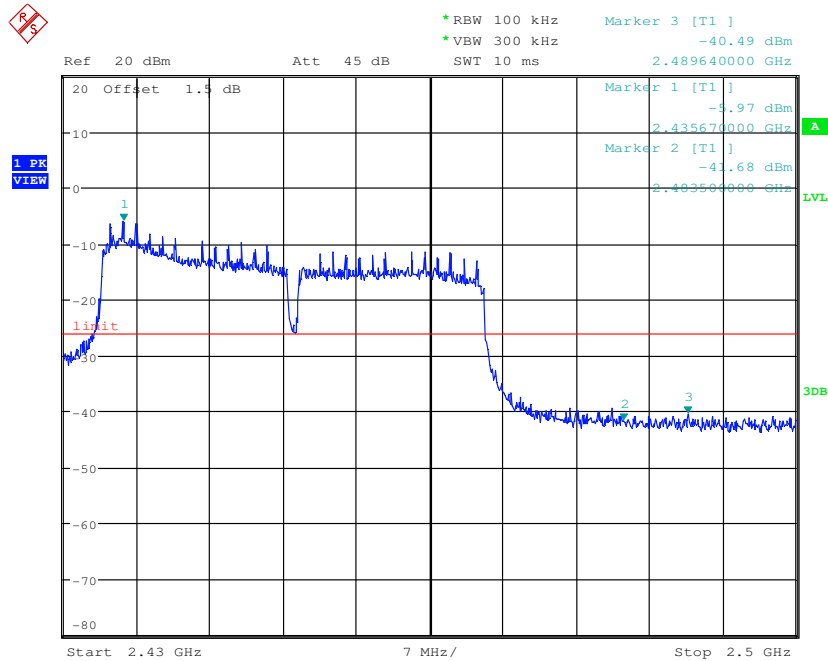
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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Test mode:	802.11n(HT40)	Test channel:	Highest
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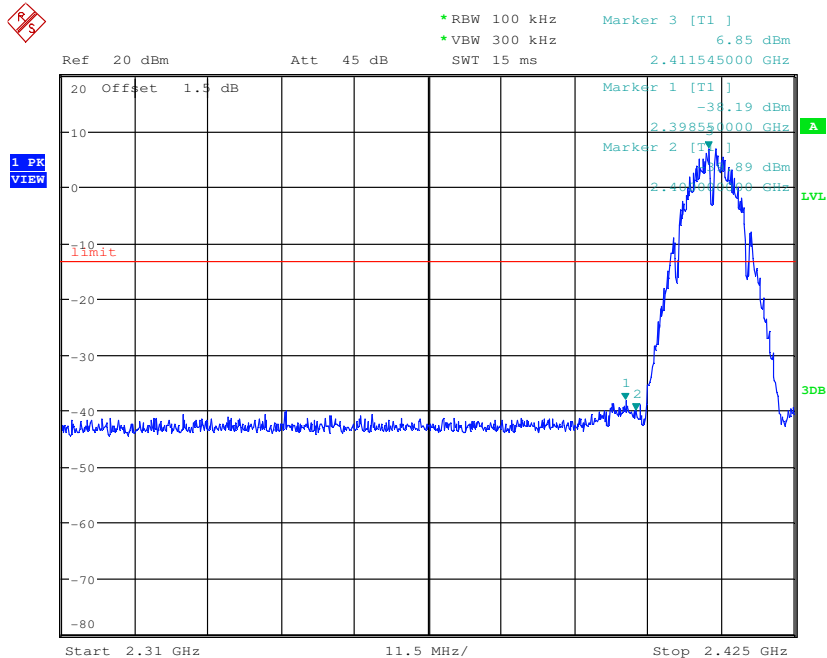
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Report No.: HKES160300051102

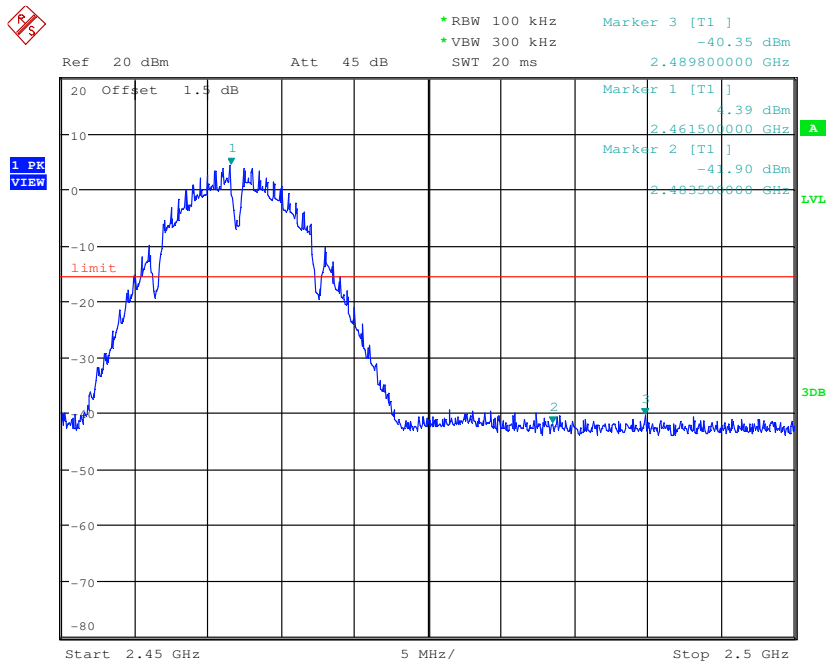
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Antenna 3

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Highest
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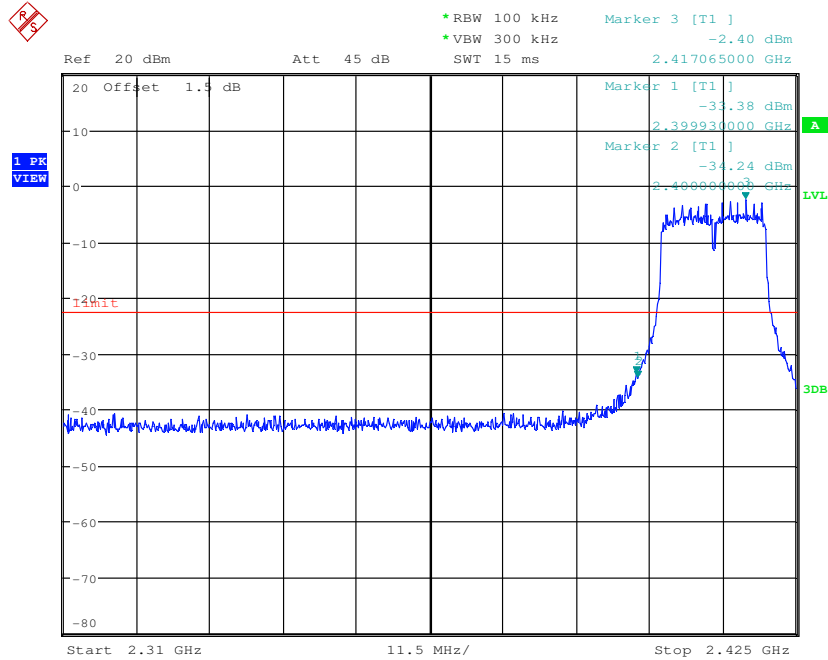


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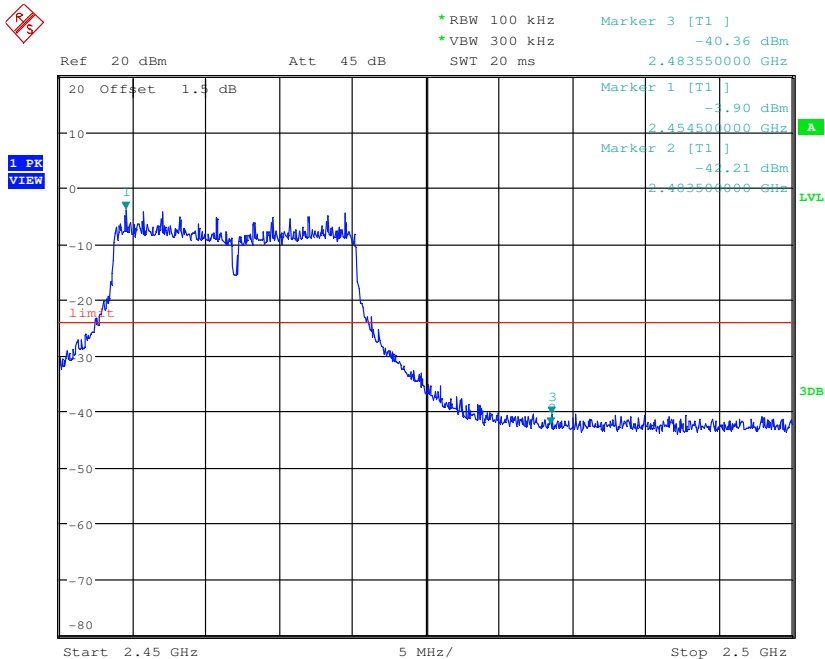
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Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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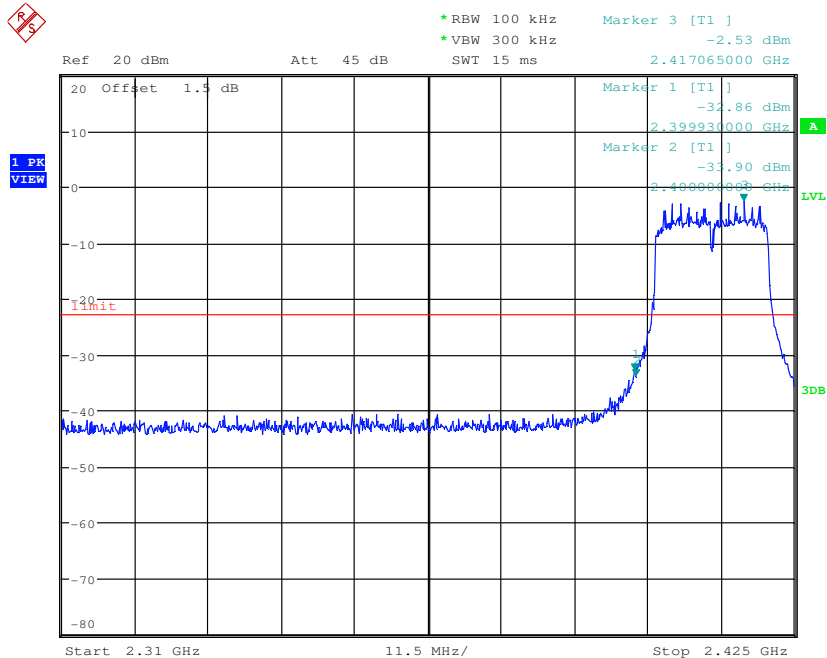
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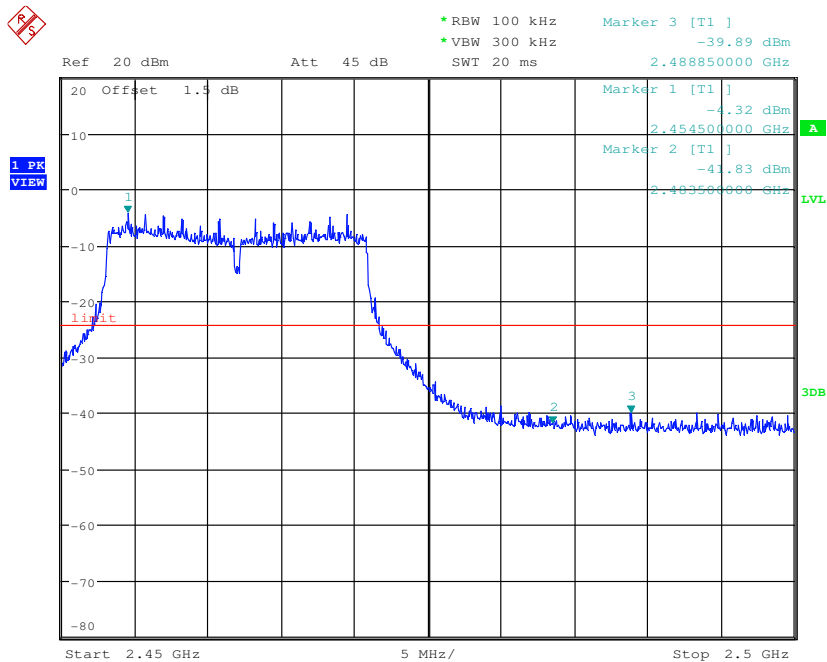
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Highest
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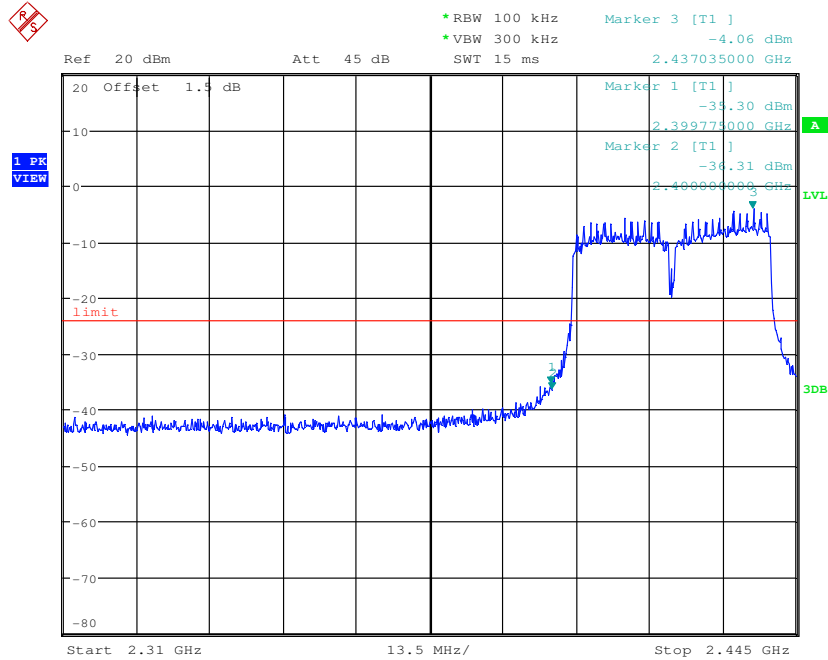


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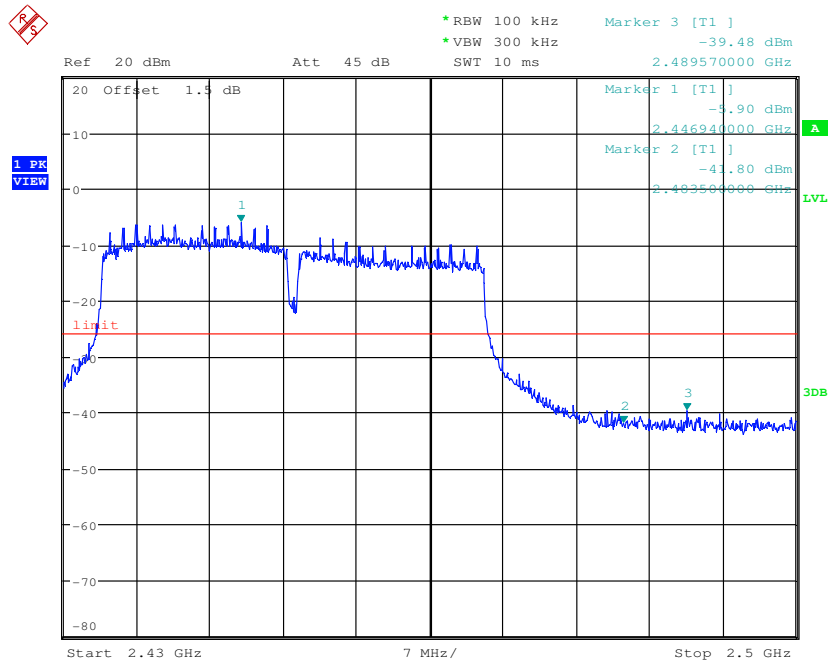
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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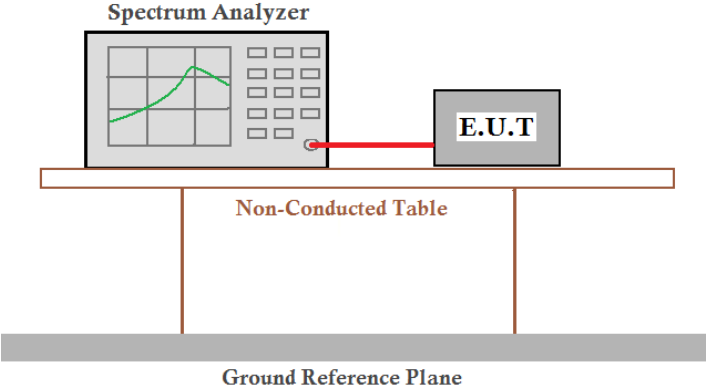


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013, section 11.11
Test Setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



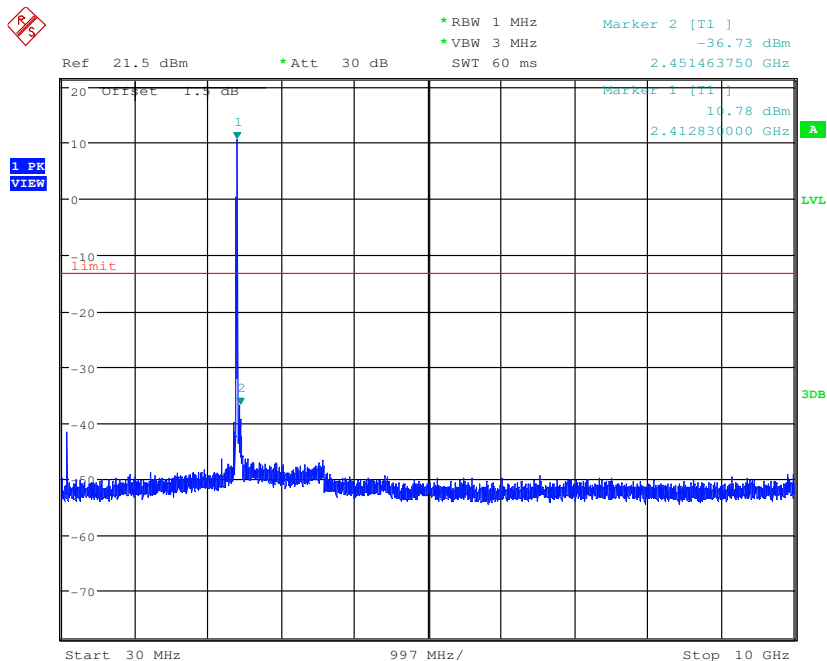
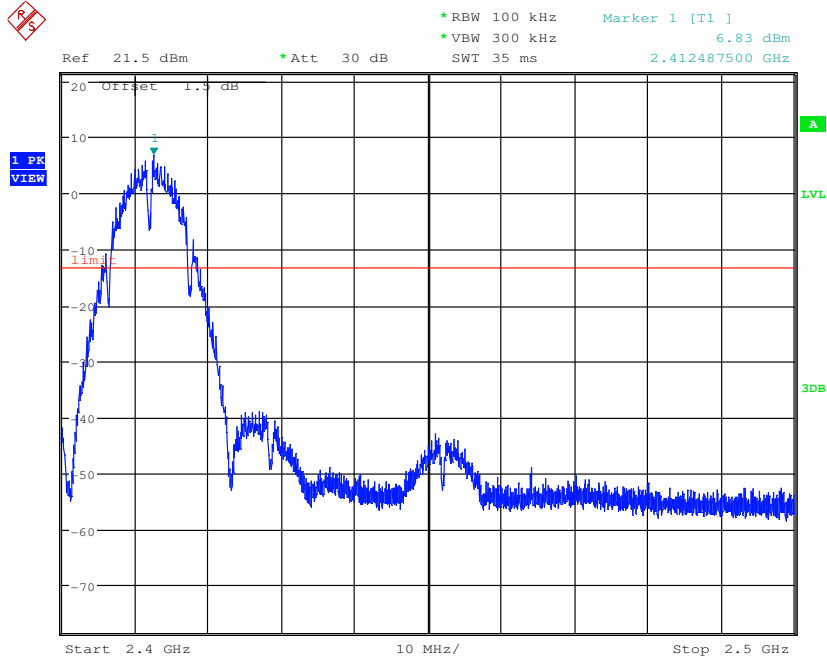
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Test plot as follows:
Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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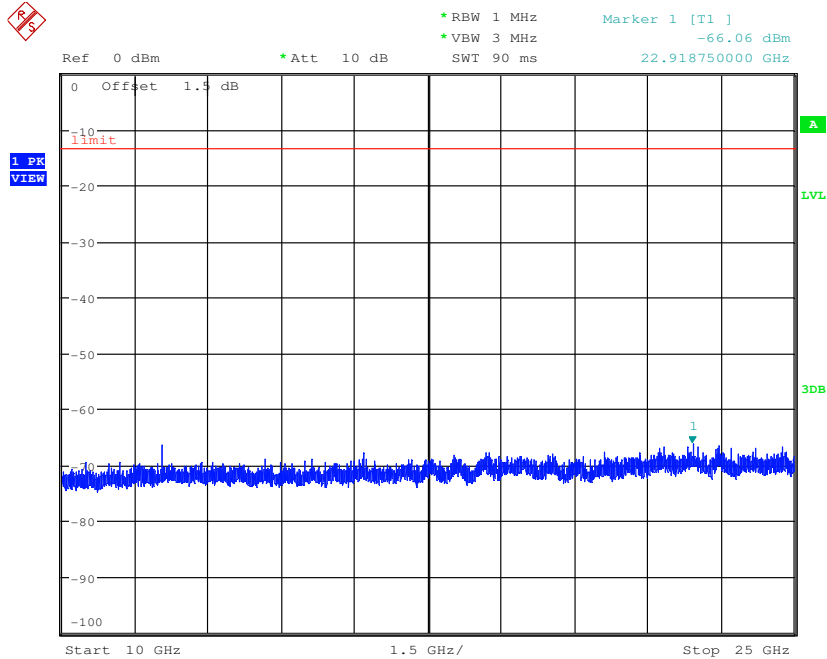
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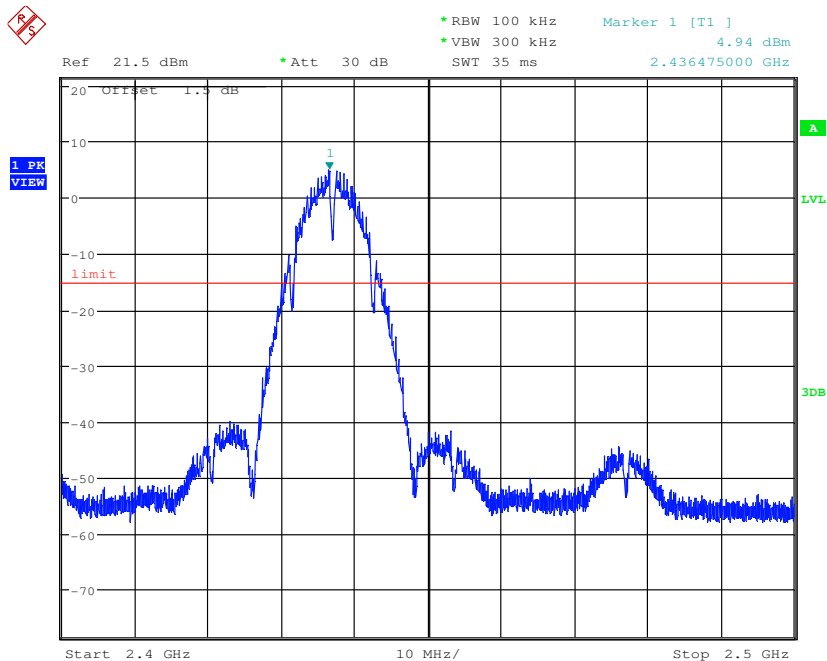
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Test mode:	802.11b	Test channel:	Middle
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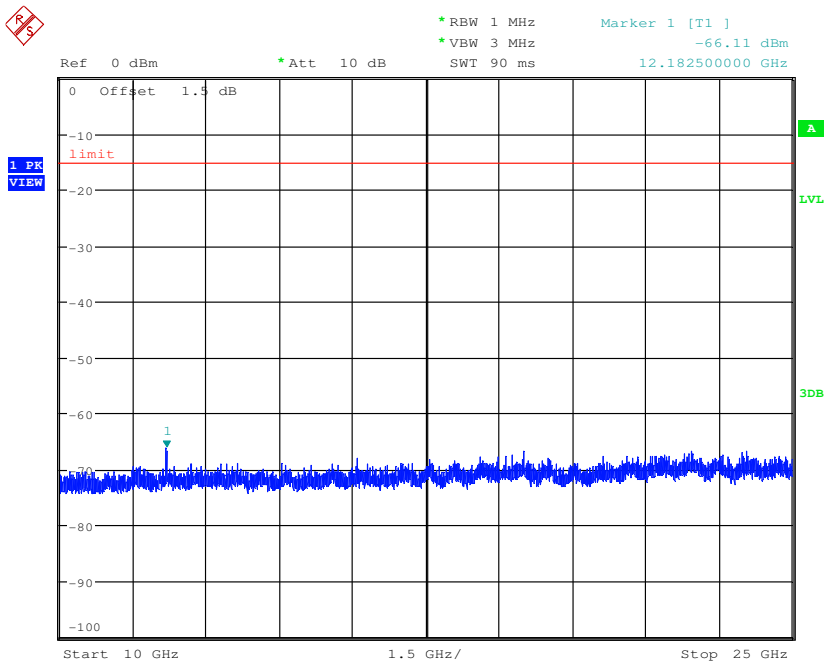
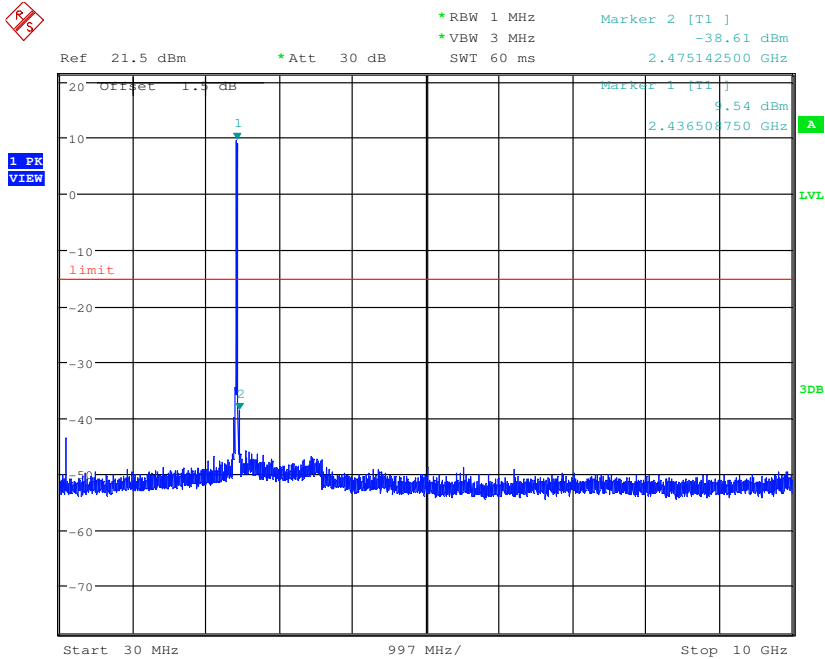
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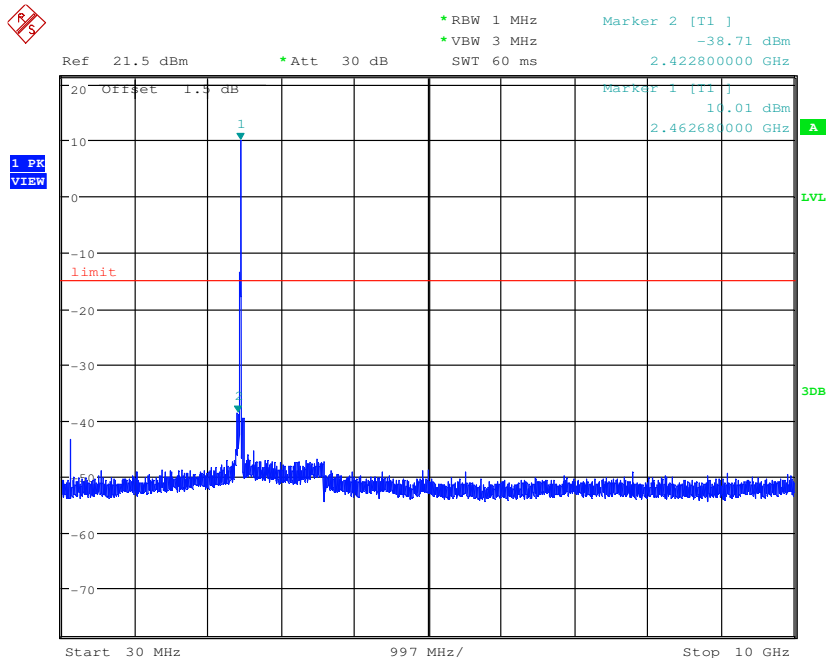
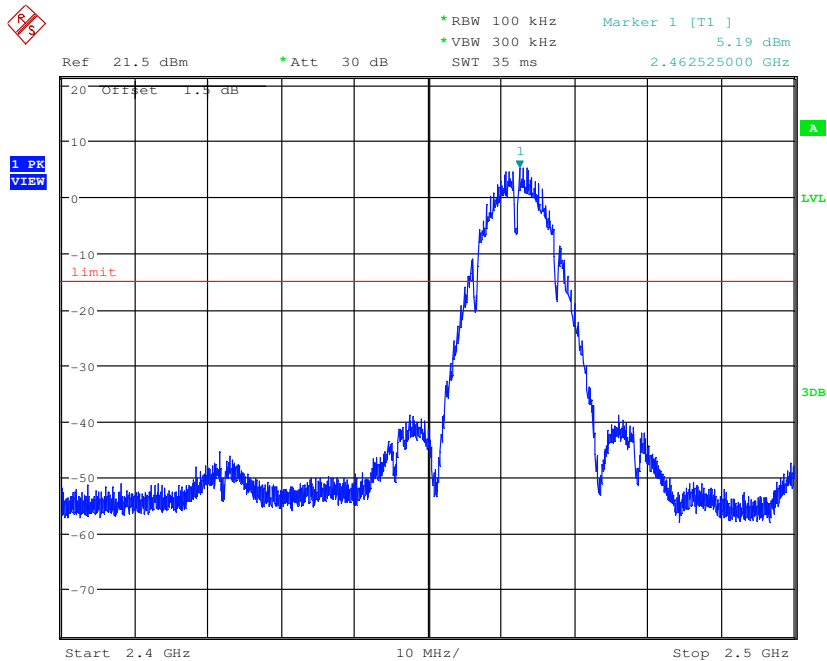
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Test mode:	802.11b	Test channel:	Highest
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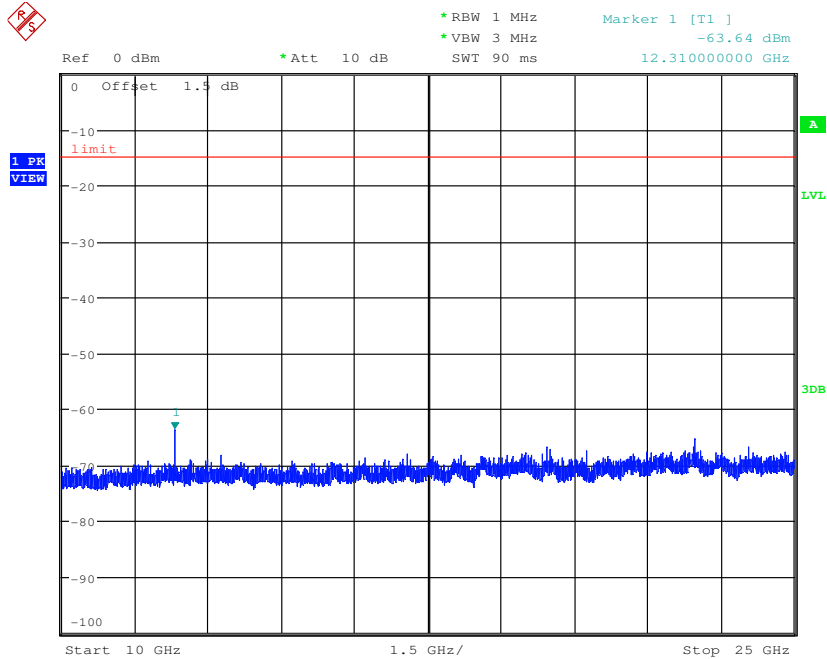
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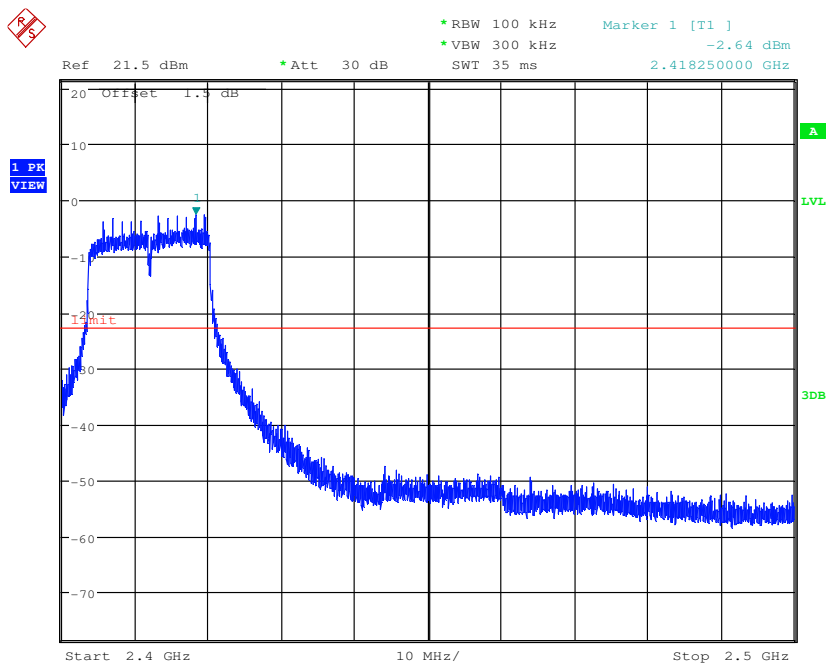
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Test mode:	802.11g	Test channel:	Lowest
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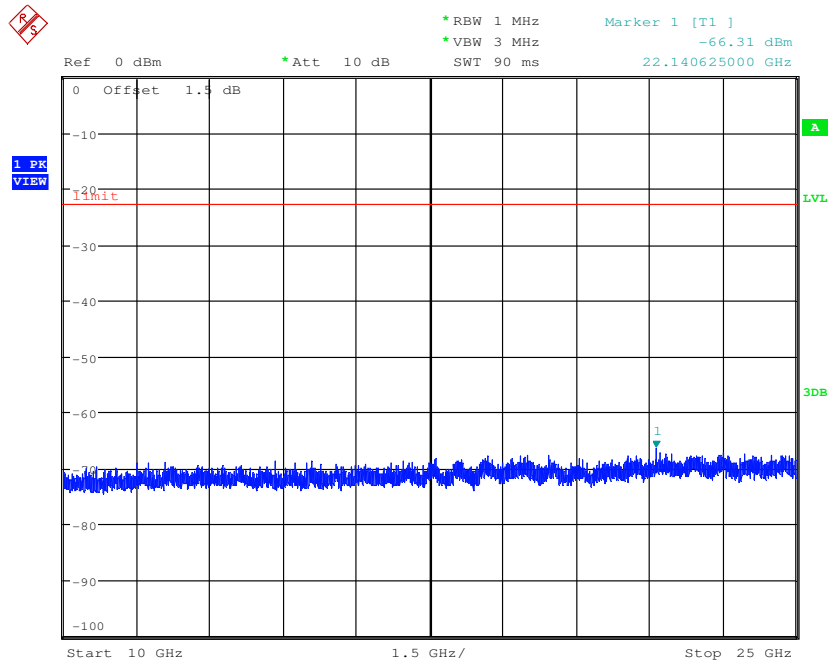
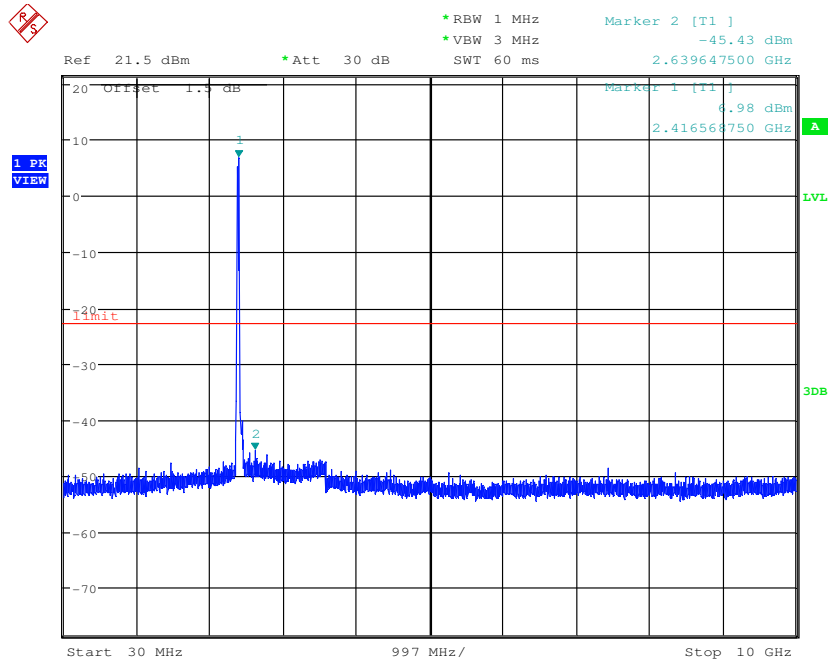
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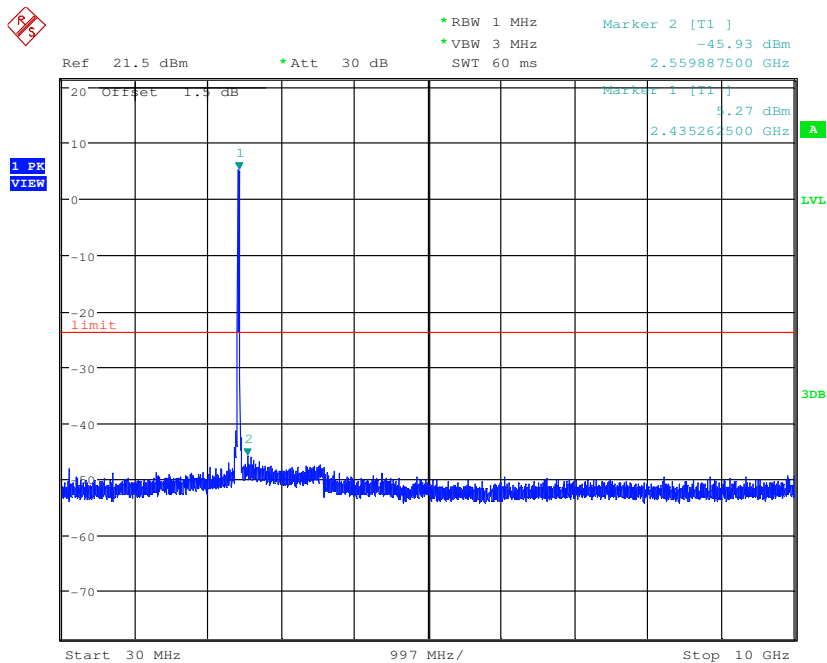
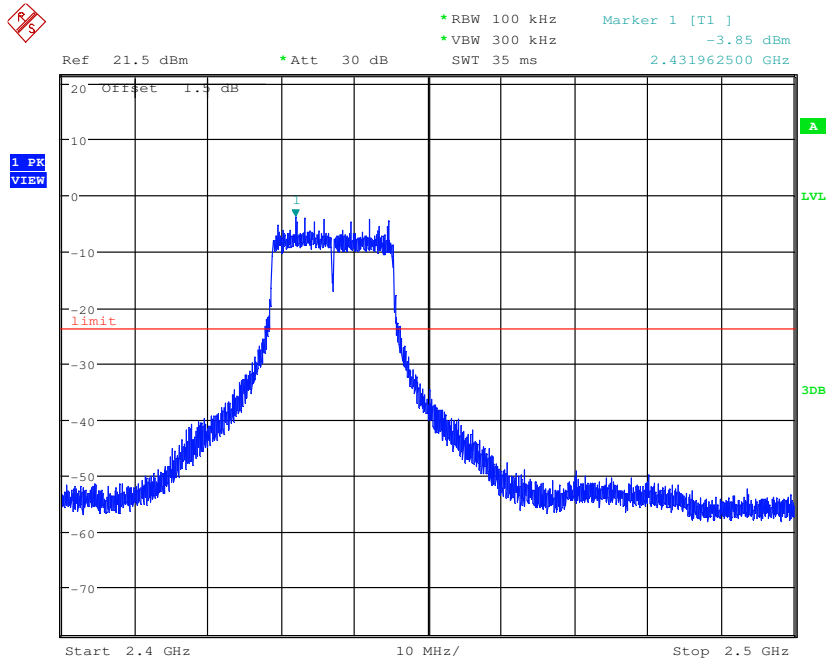
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Test mode:	802.11g	Test channel:	Middle
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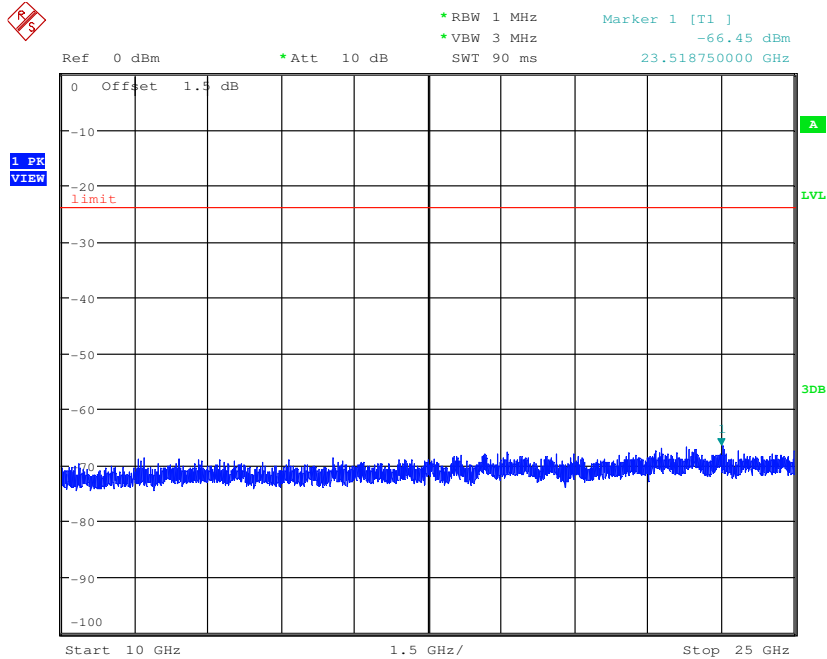
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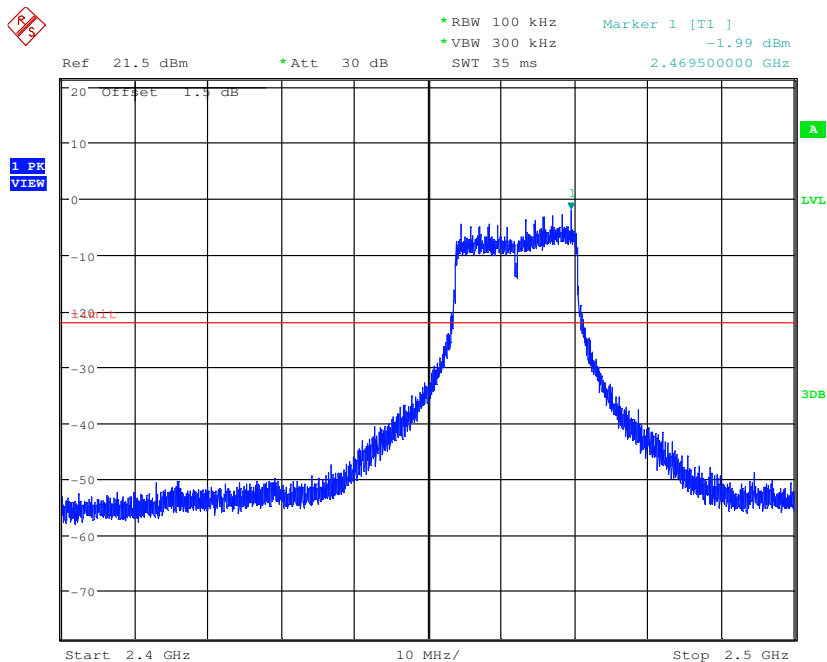
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Test mode:	802.11g	Test channel:	Highest
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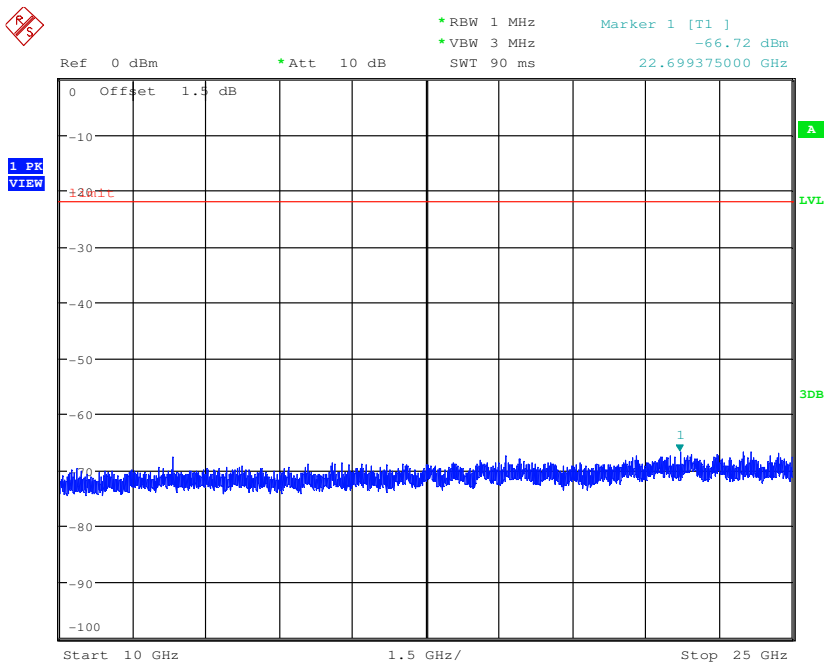
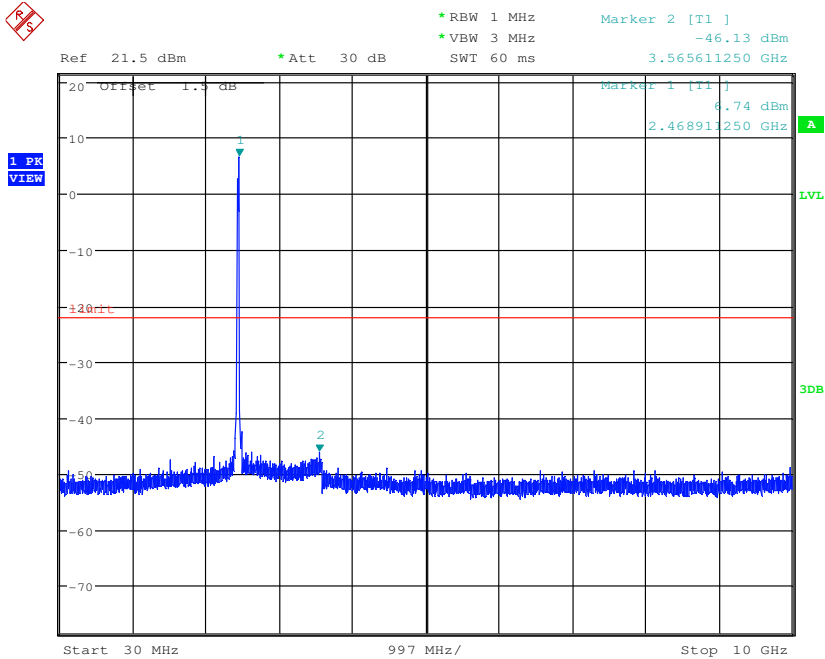
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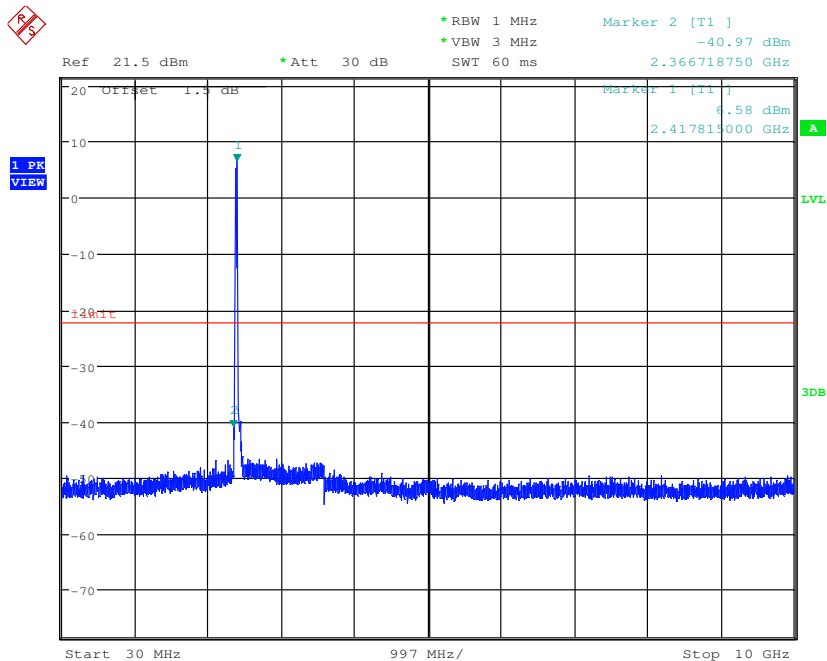
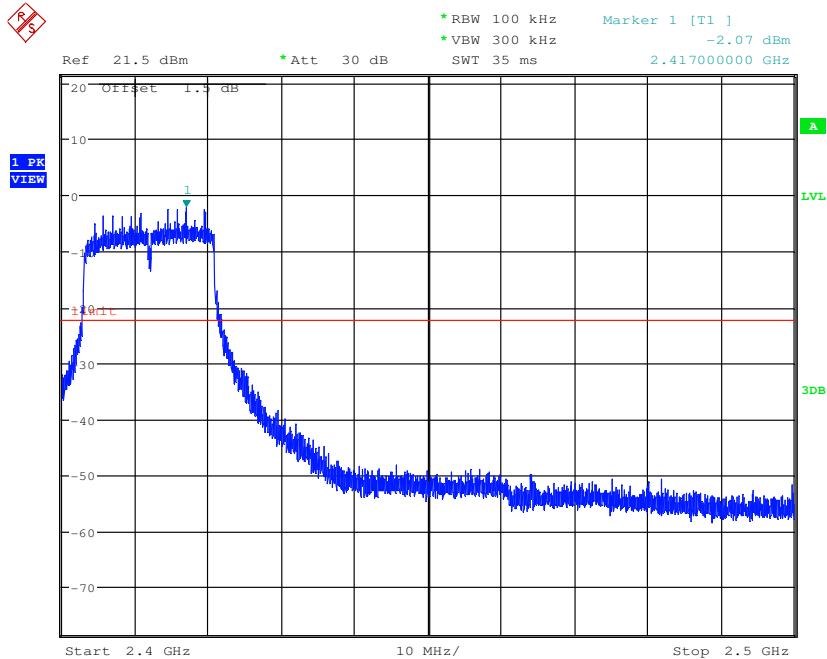
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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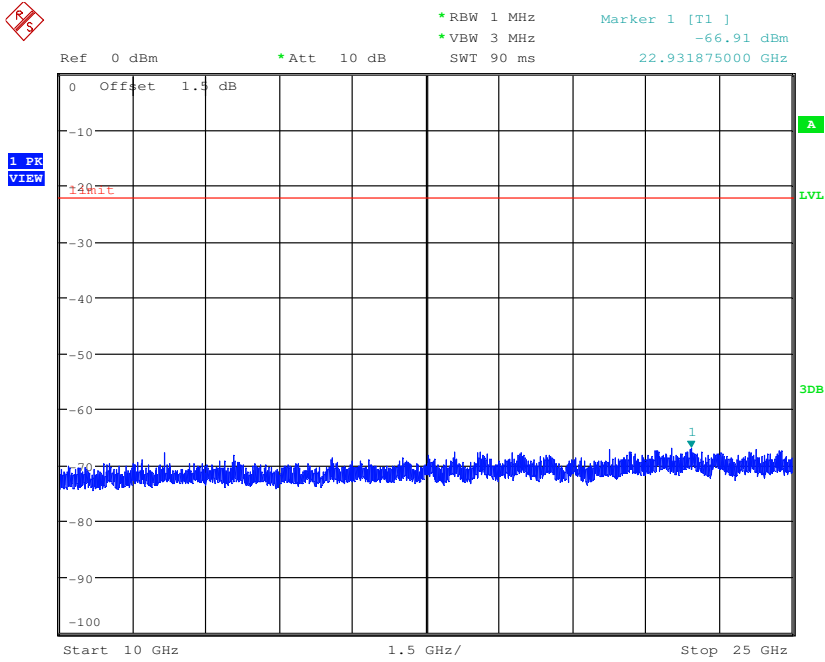


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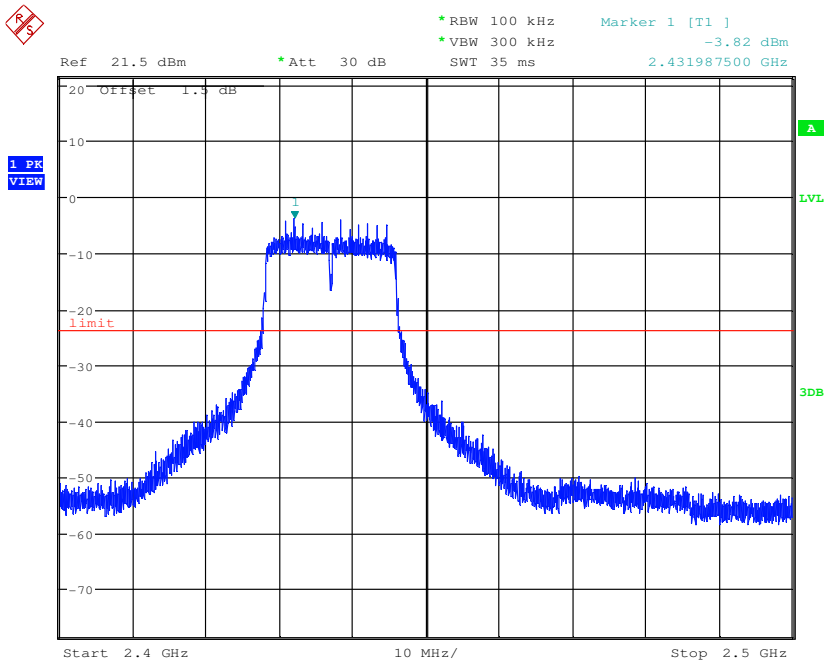


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Test mode:	802.11n(HT20)	Test channel:	Middle
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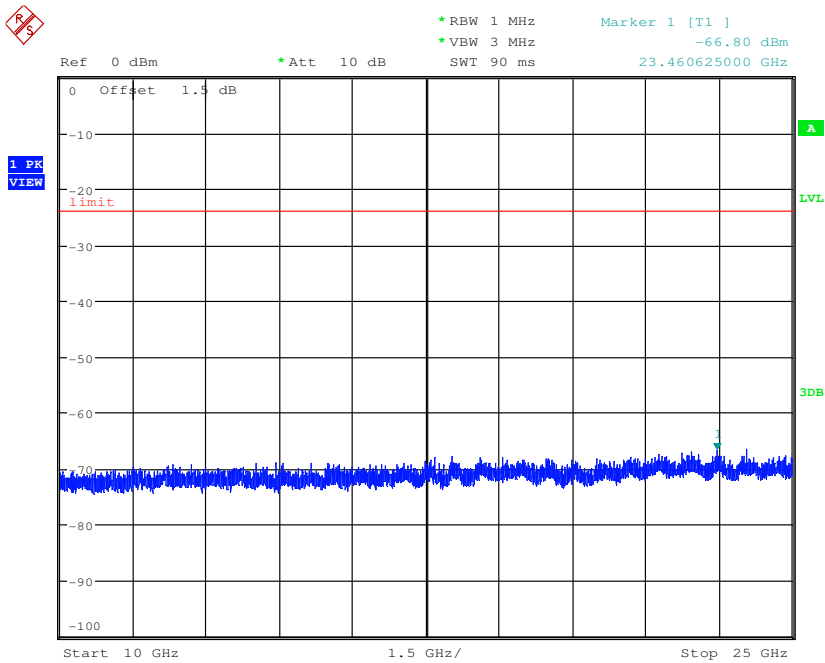
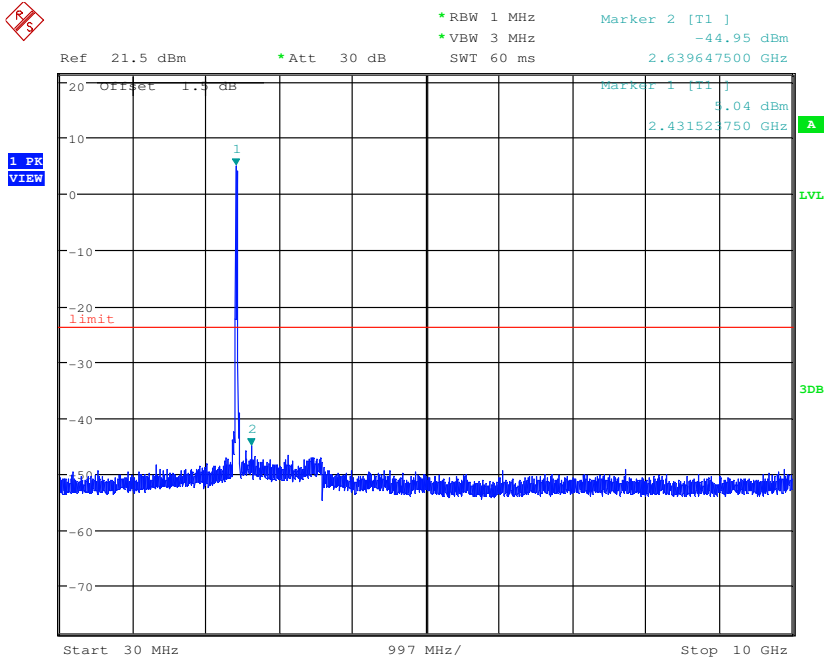
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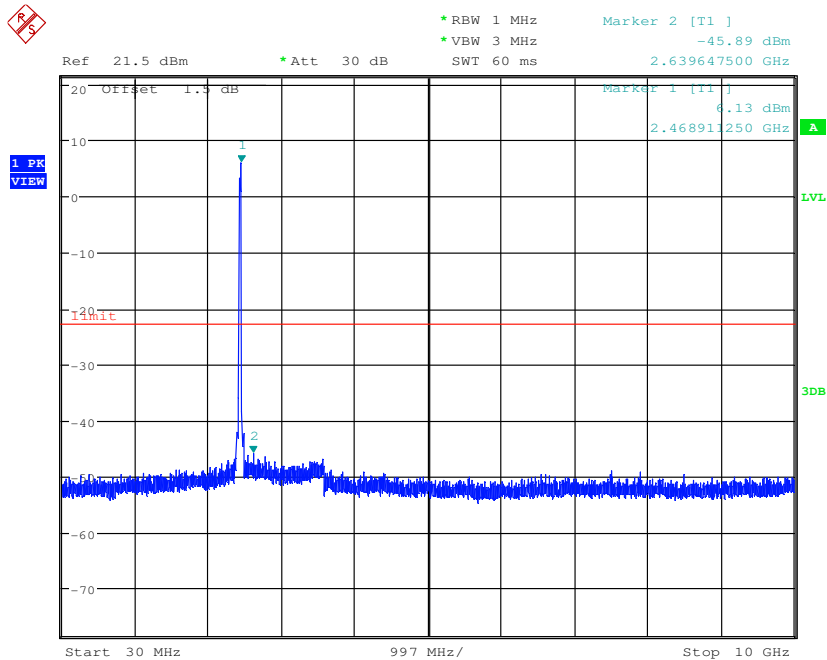
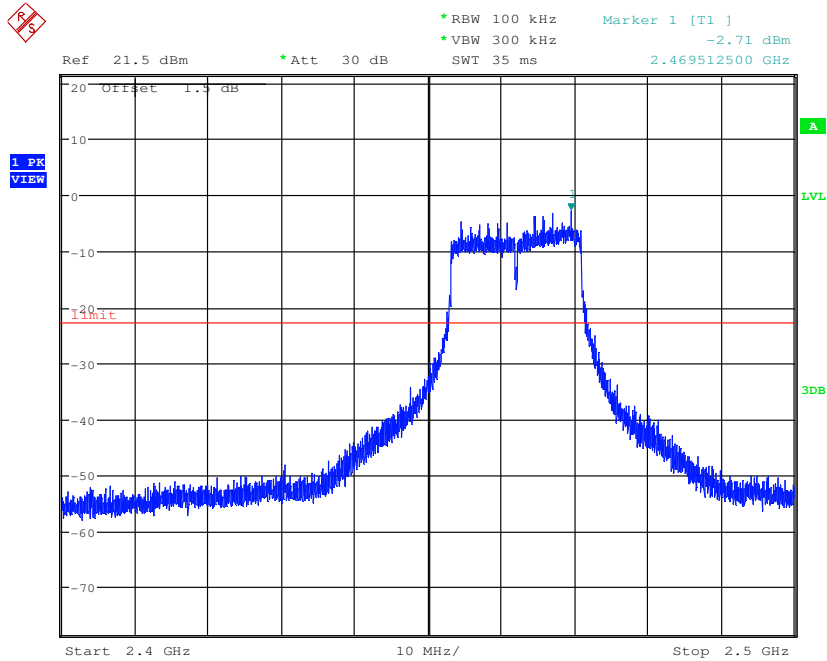
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Test mode:	802.11n(HT20)	Test channel:	Highest
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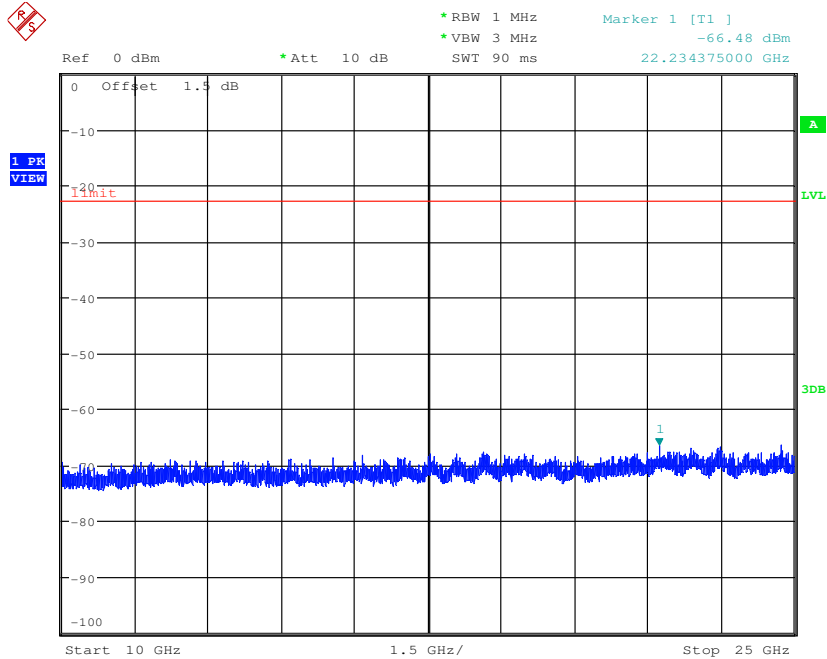
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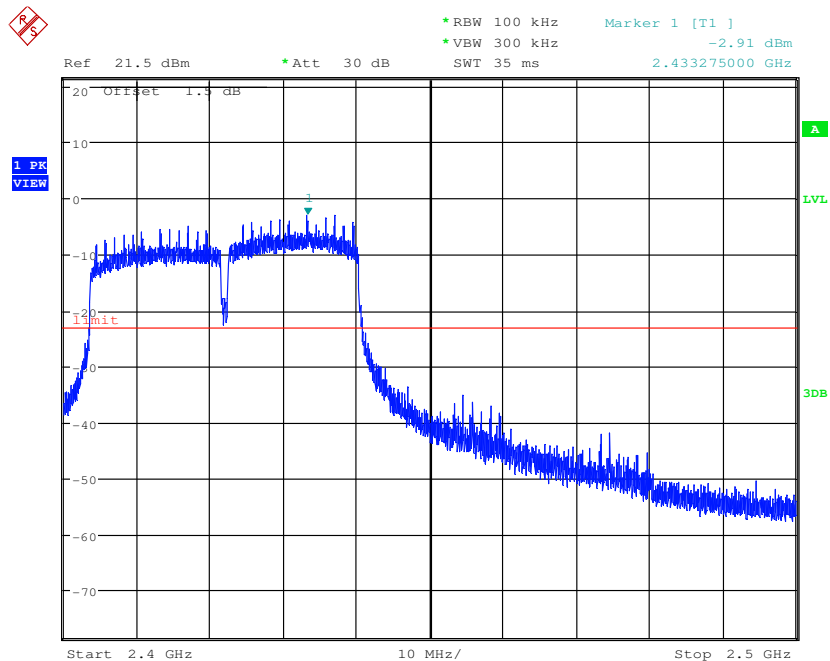
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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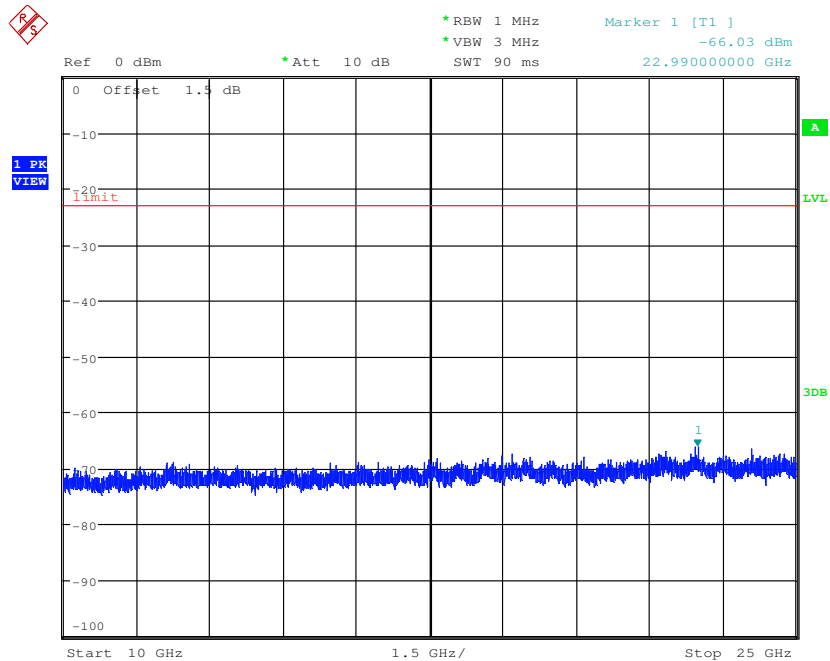
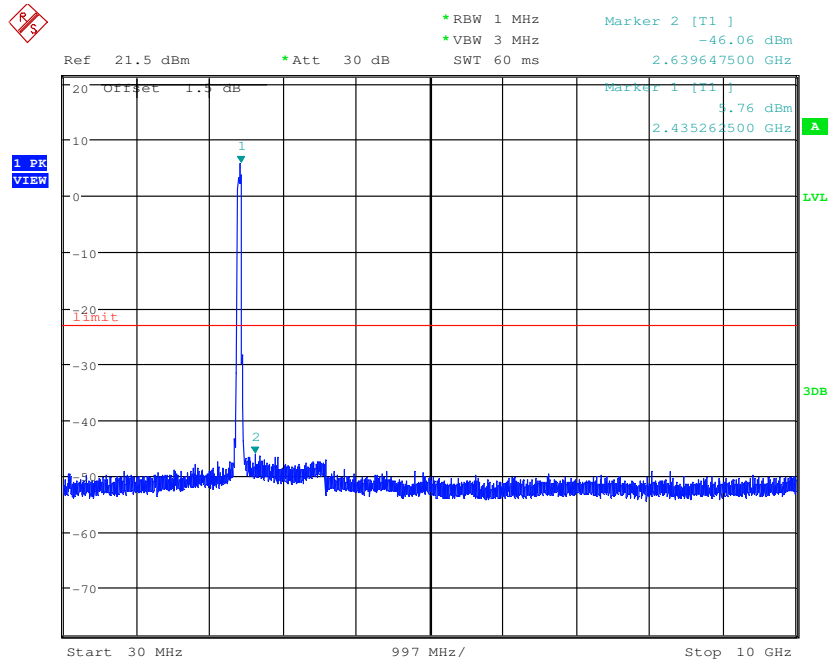
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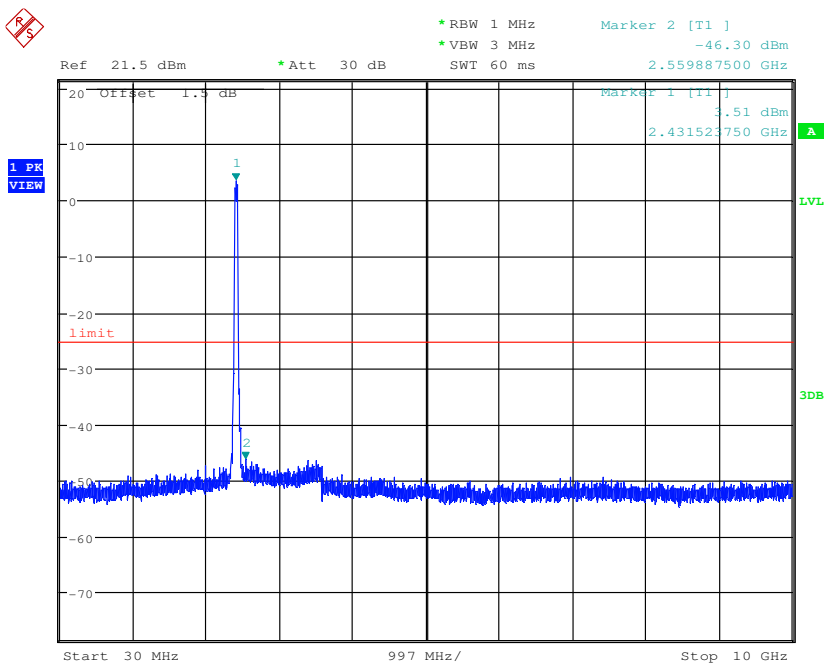
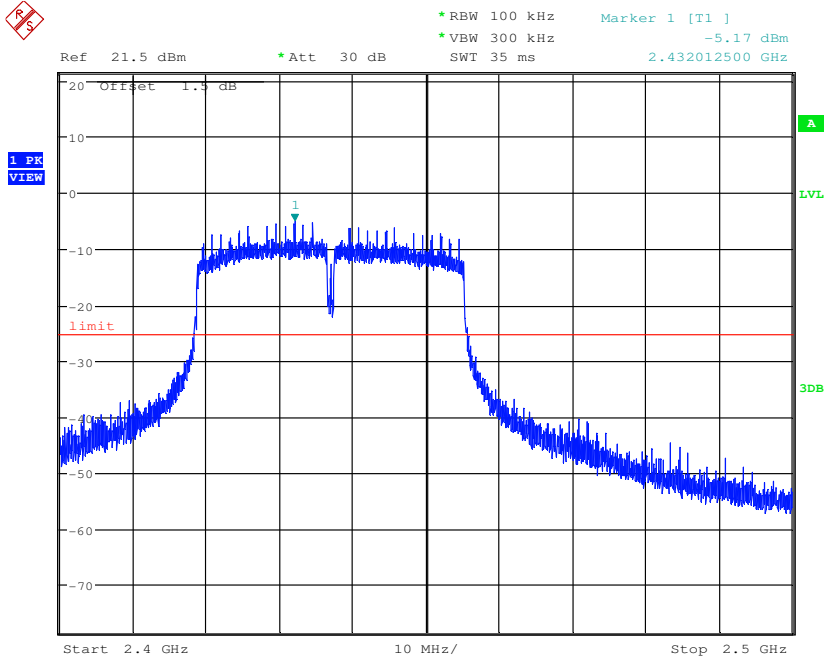
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Test mode:	802.11n(HT40)	Test channel:	Middle
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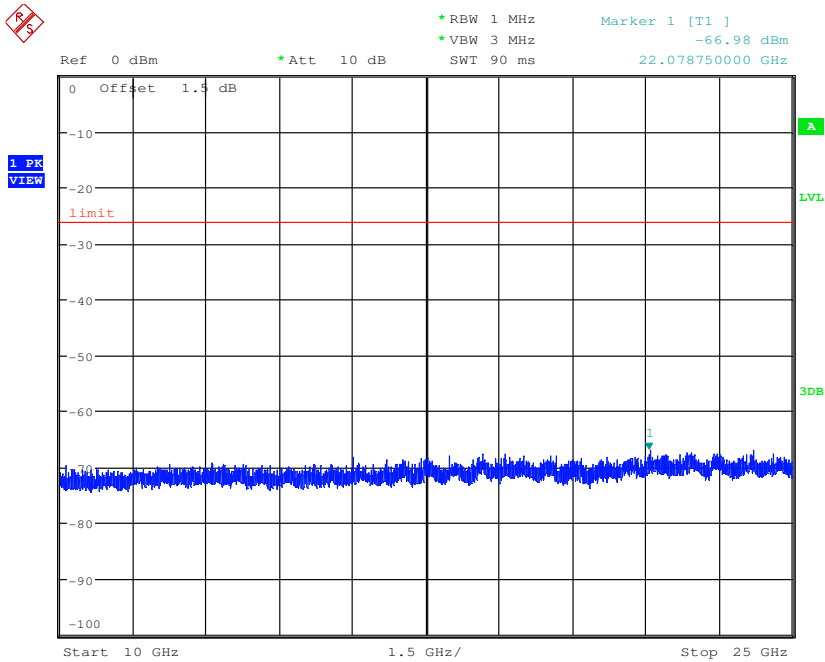
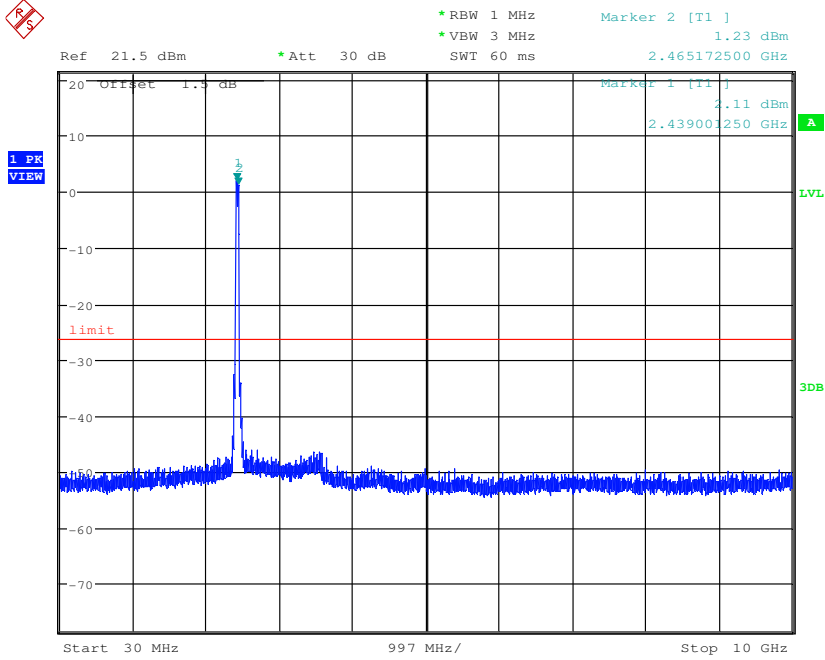


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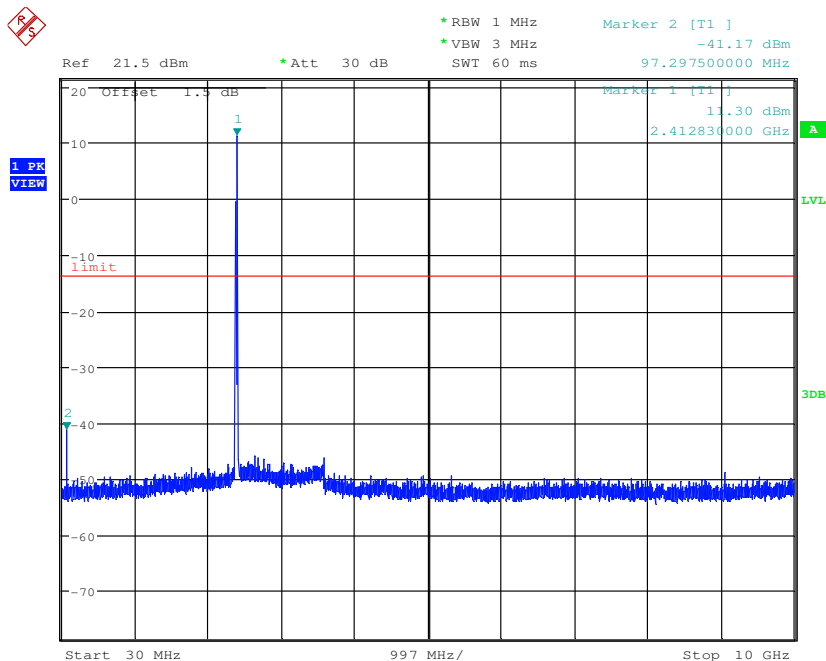
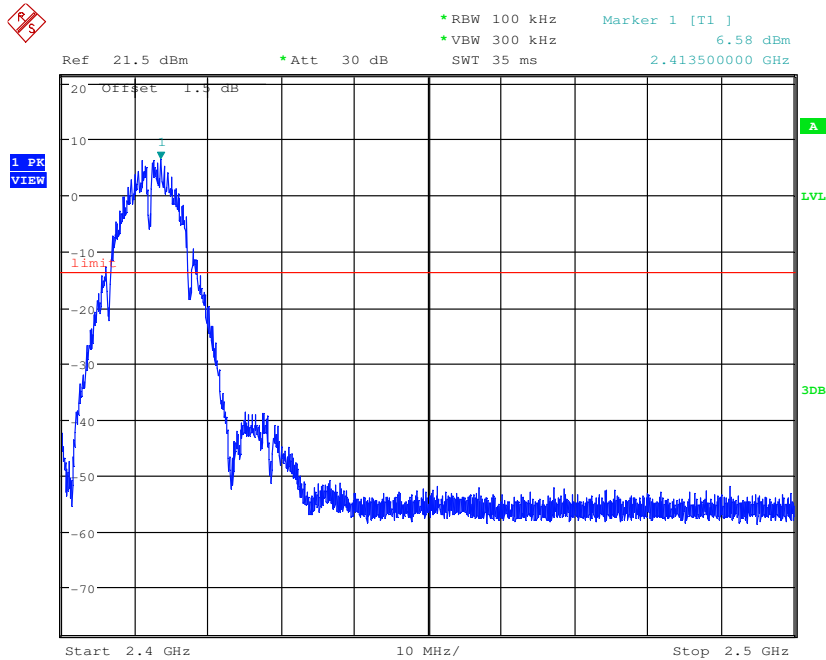


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Antenna 2

Test mode:	802.11b	Test channel:	Lowest
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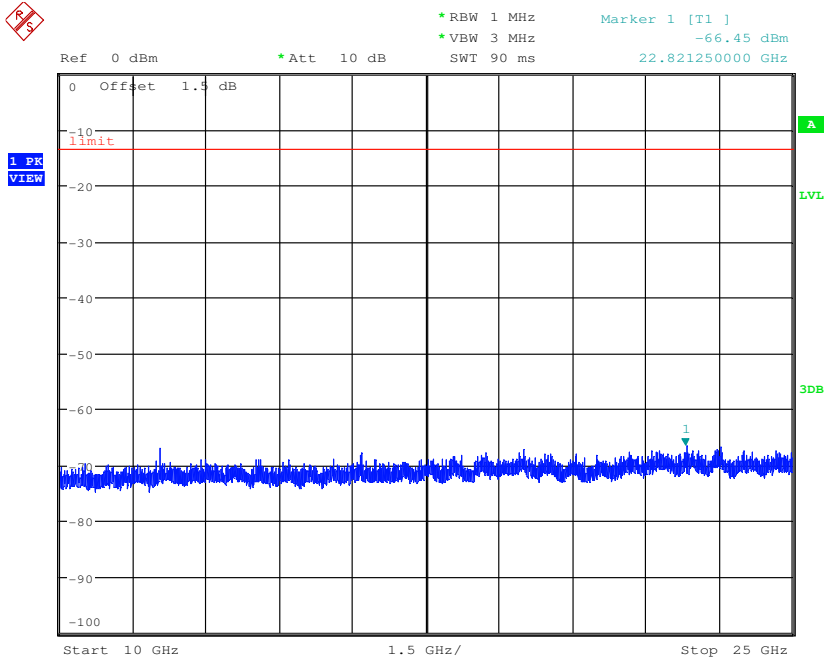
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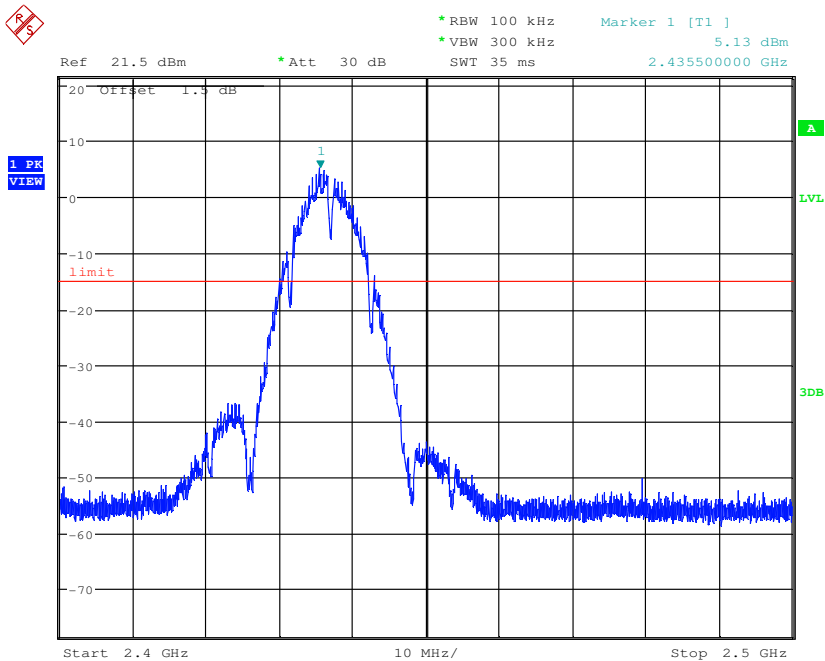
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Test mode:	802.11b	Test channel:	Middle
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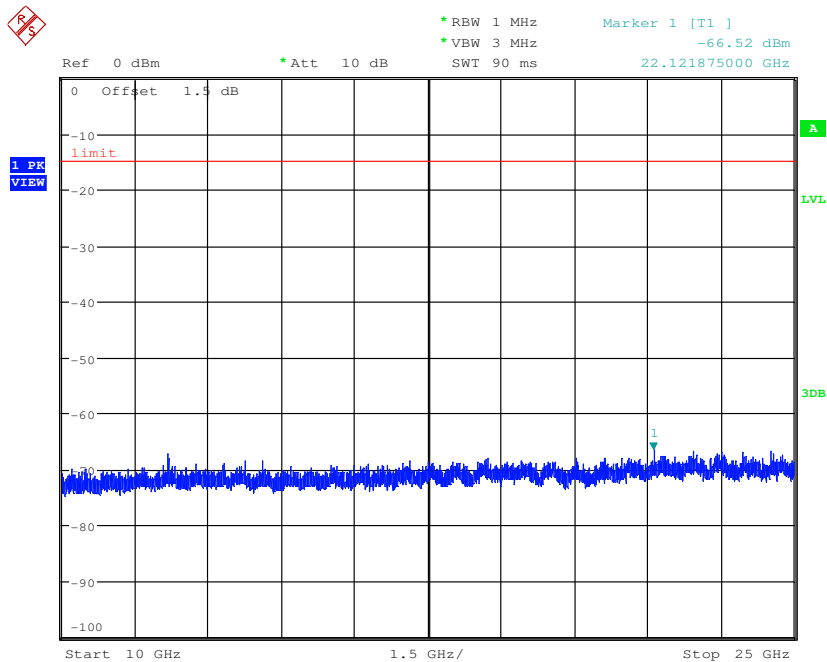
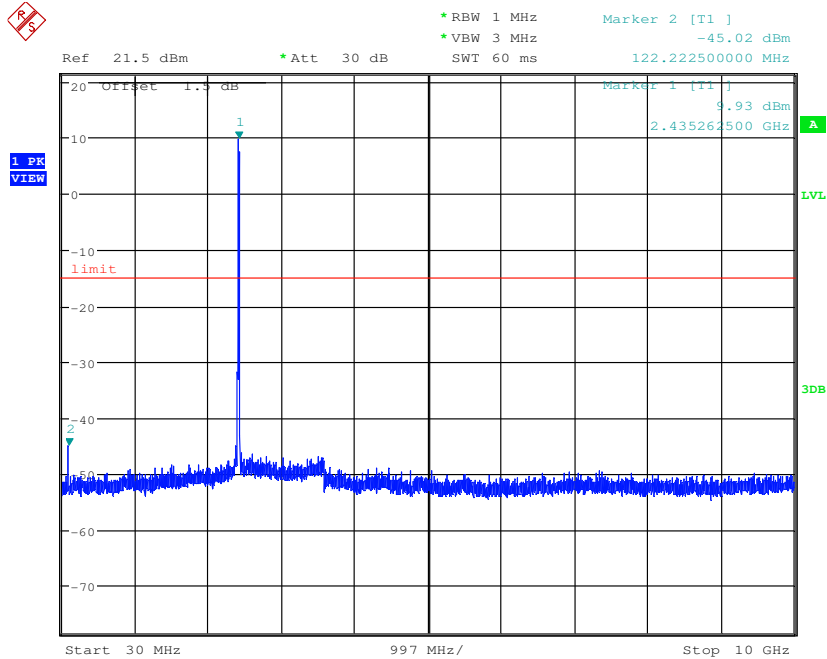
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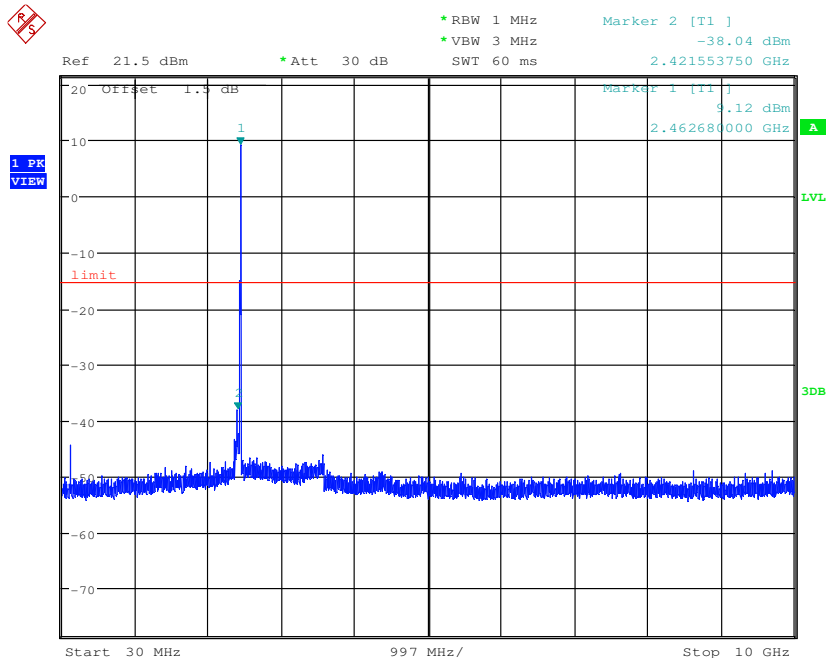
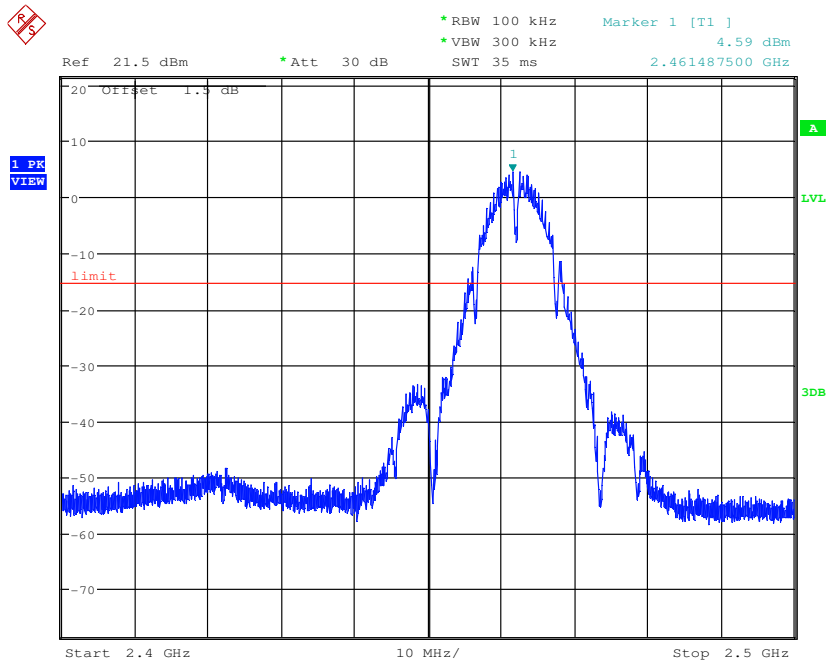


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Test mode:	802.11b	Test channel:	Highest
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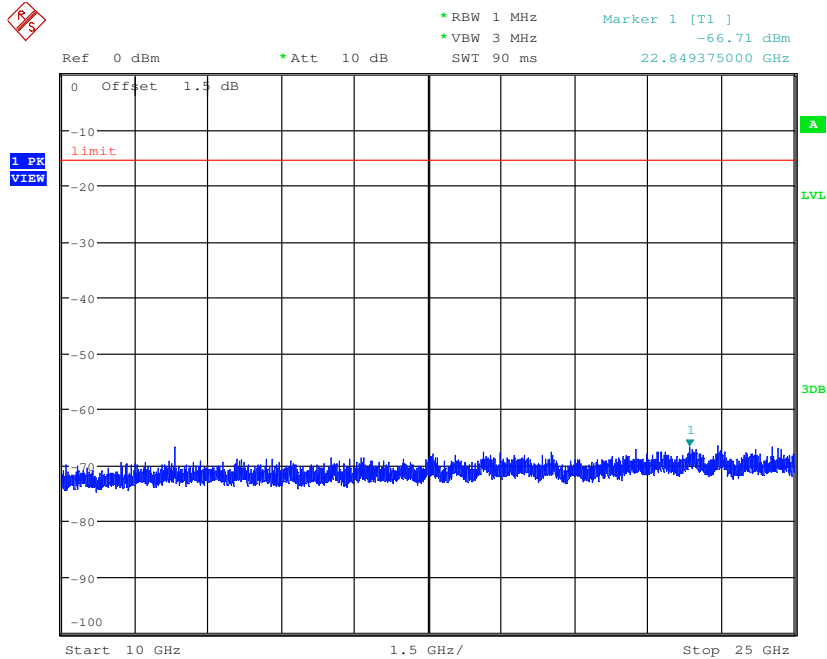
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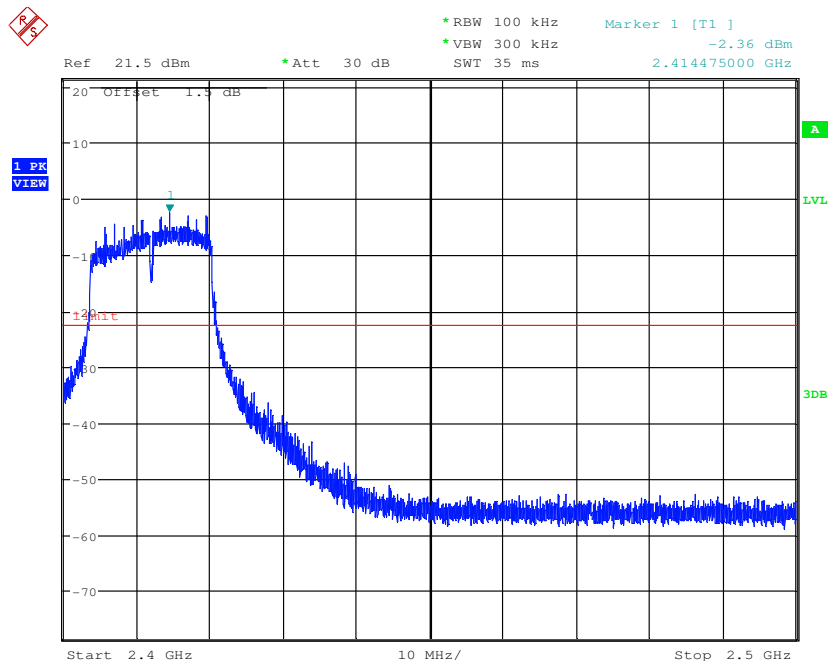
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Test mode:	802.11g	Test channel:	Lowest
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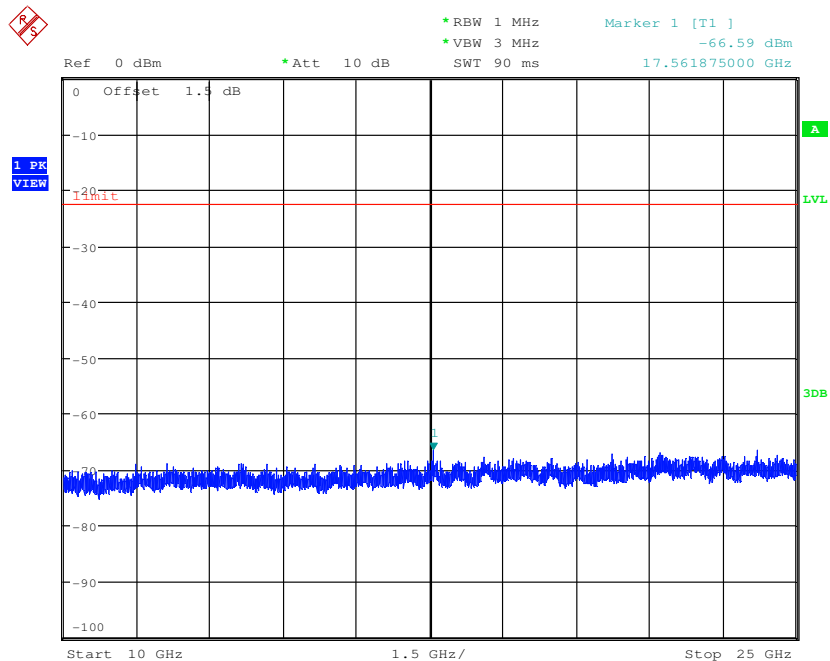
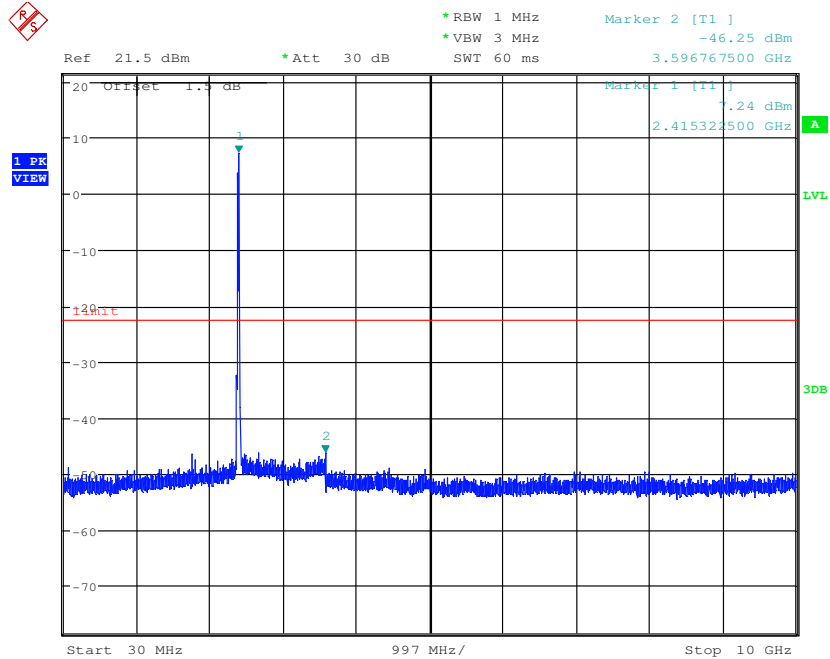
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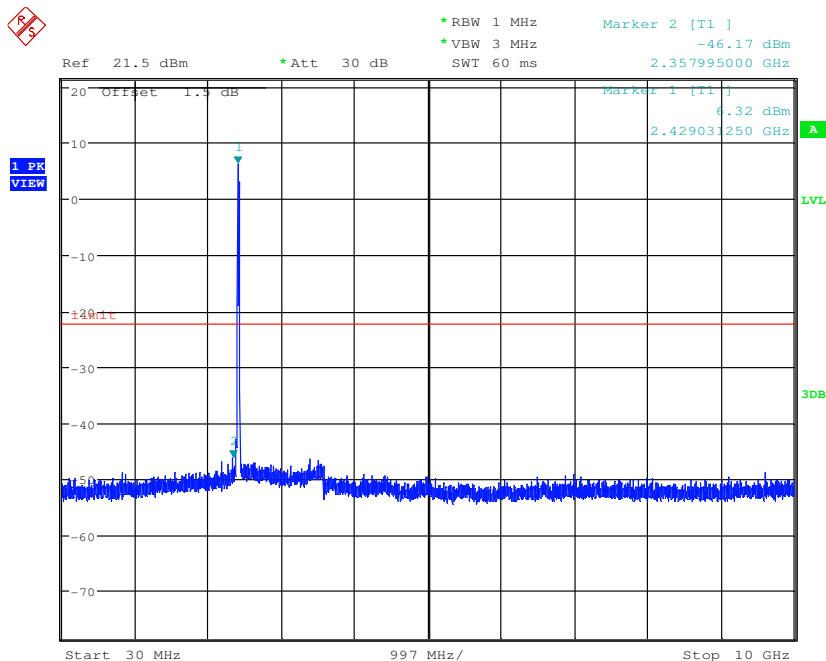
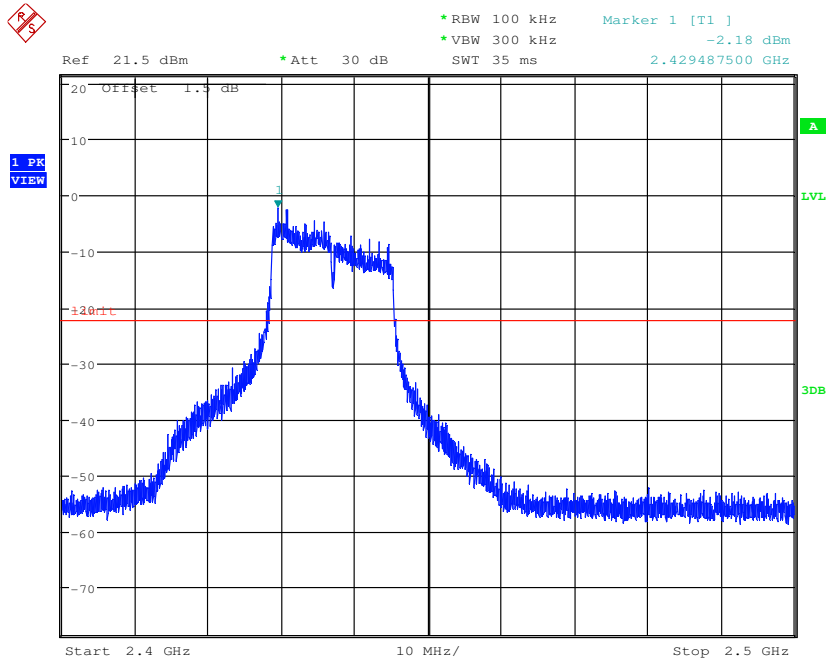


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Test mode:	802.11g	Test channel:	Middle
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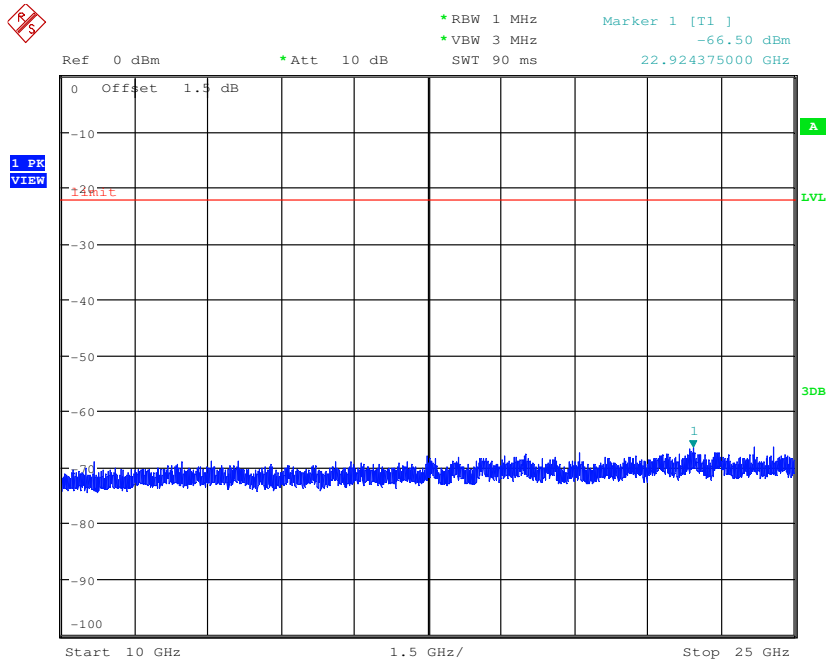
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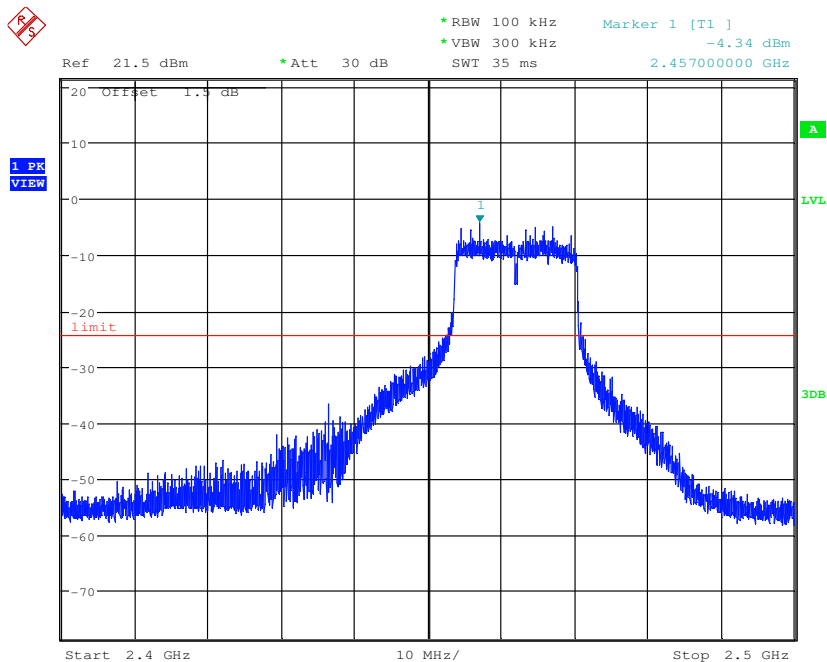
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Test mode:	802.11g	Test channel:	Highest
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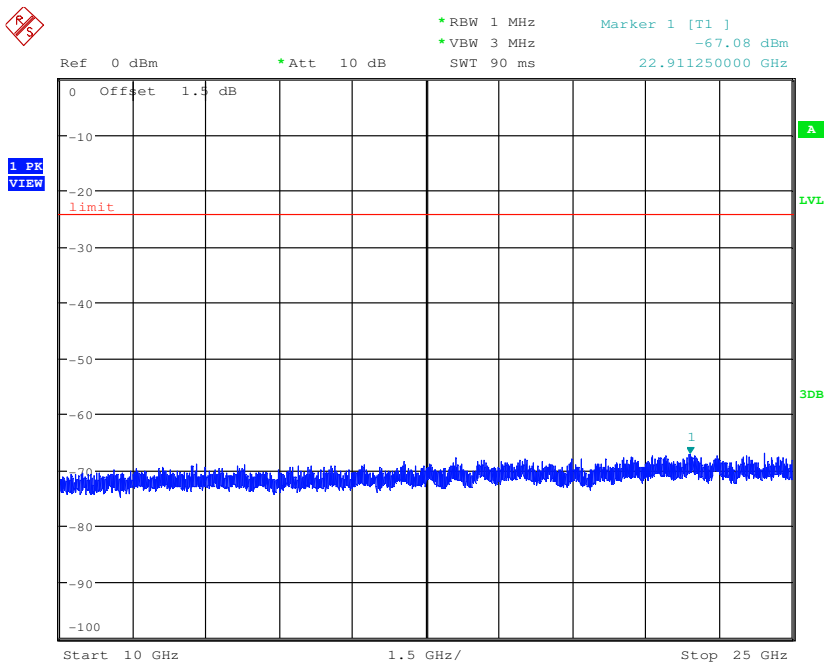
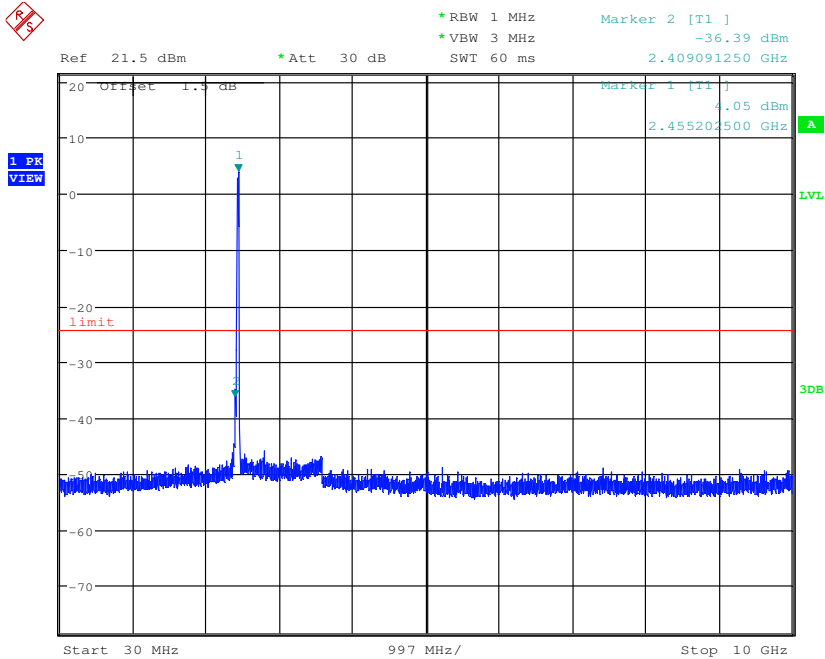
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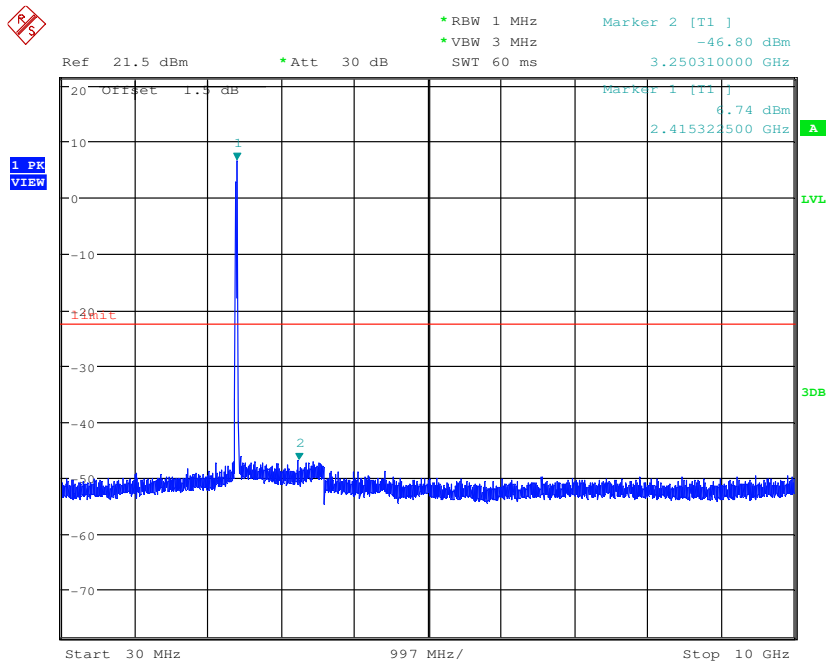
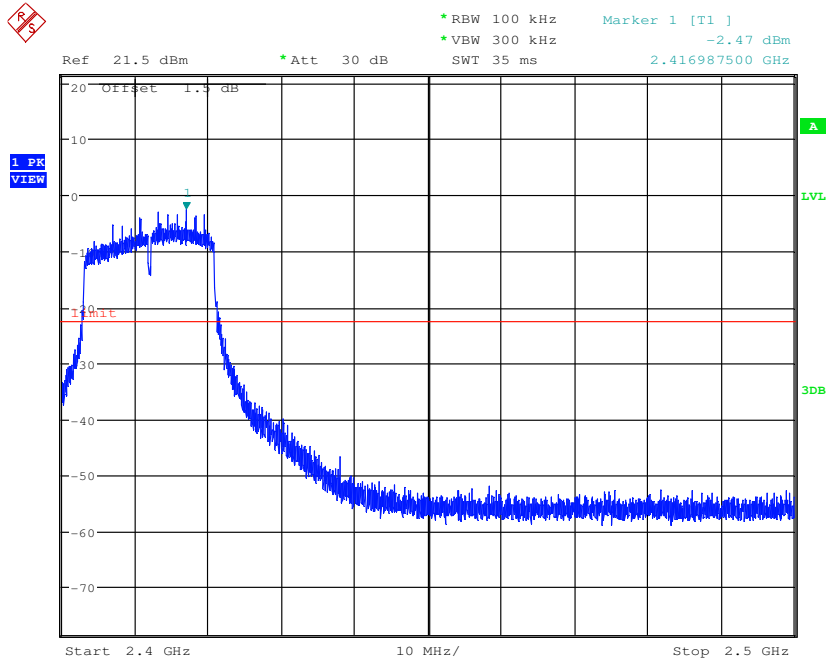
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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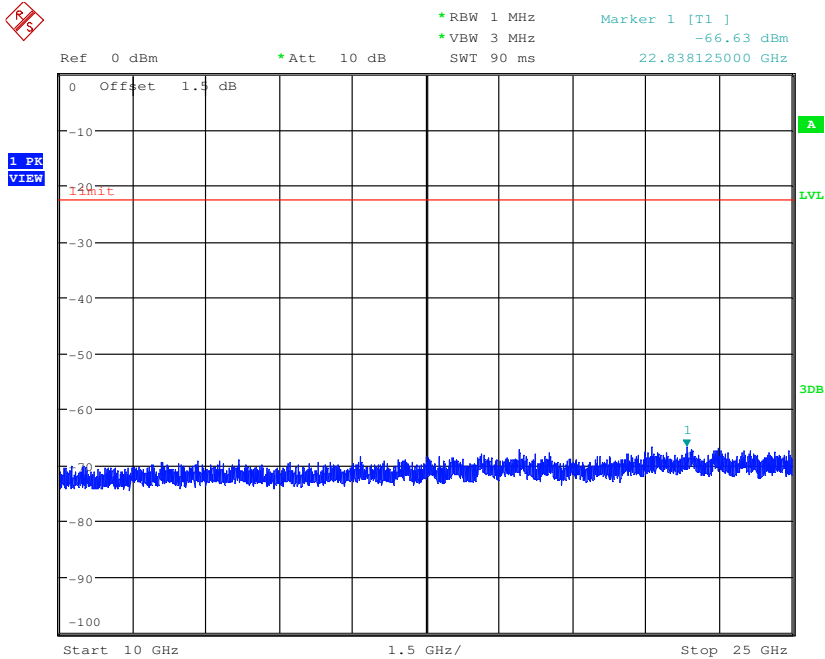
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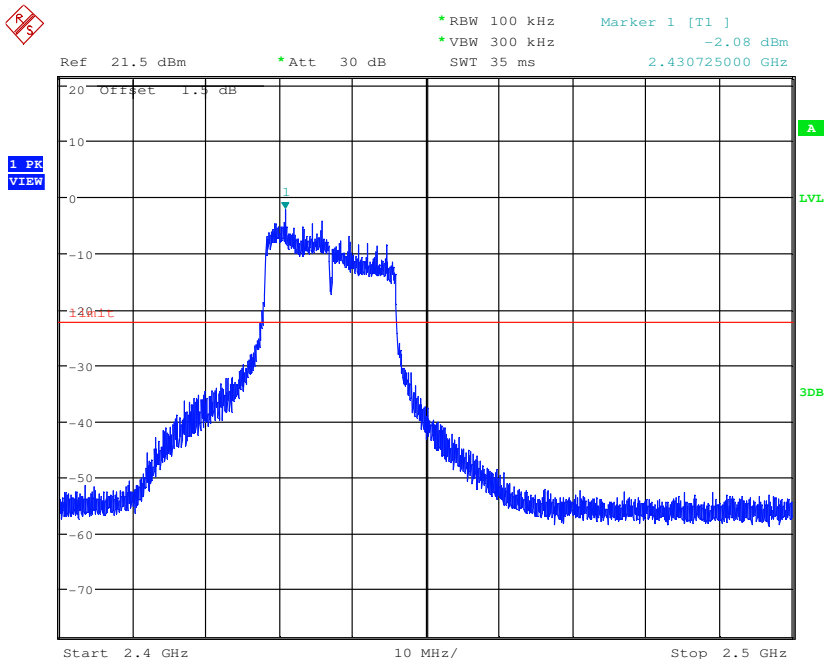
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Test mode:	802.11n(HT20)	Test channel:	Middle
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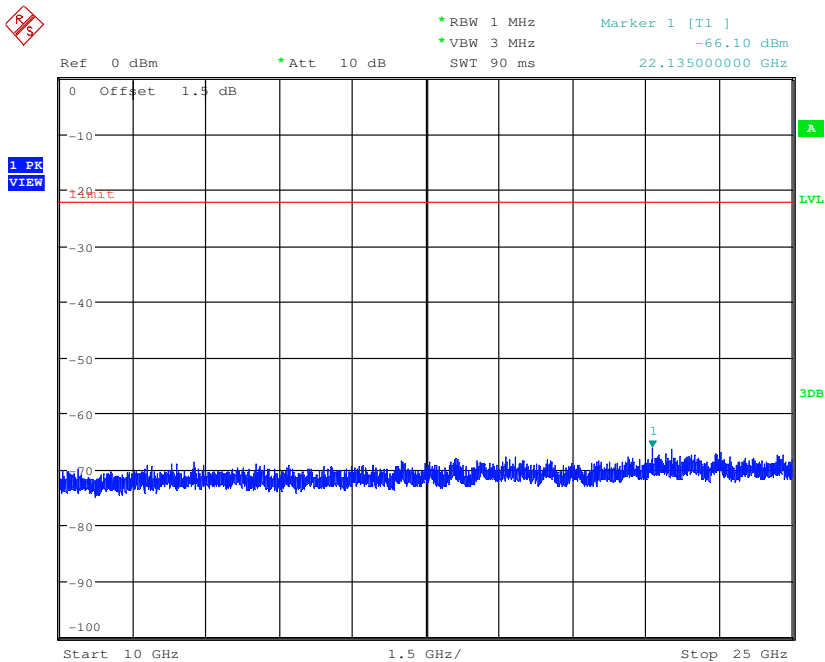
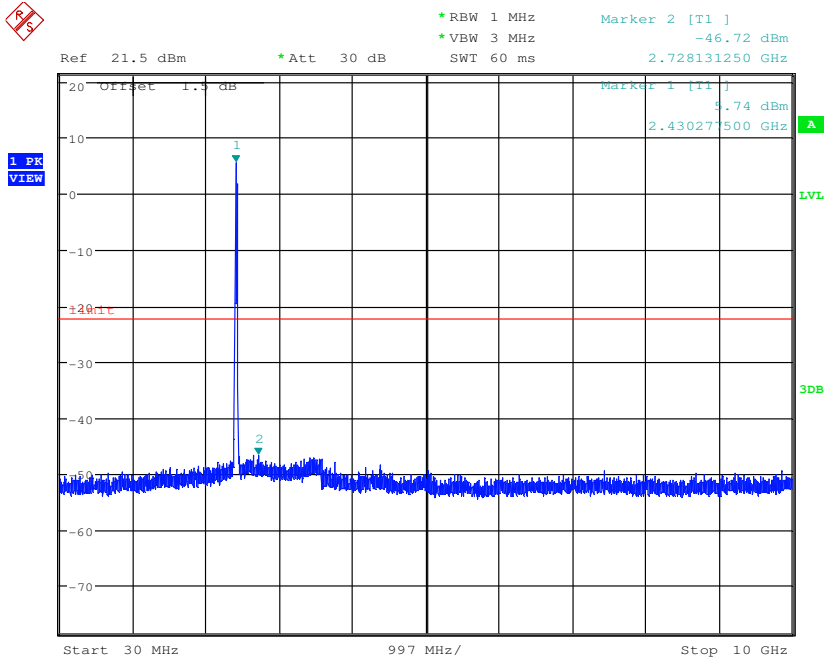
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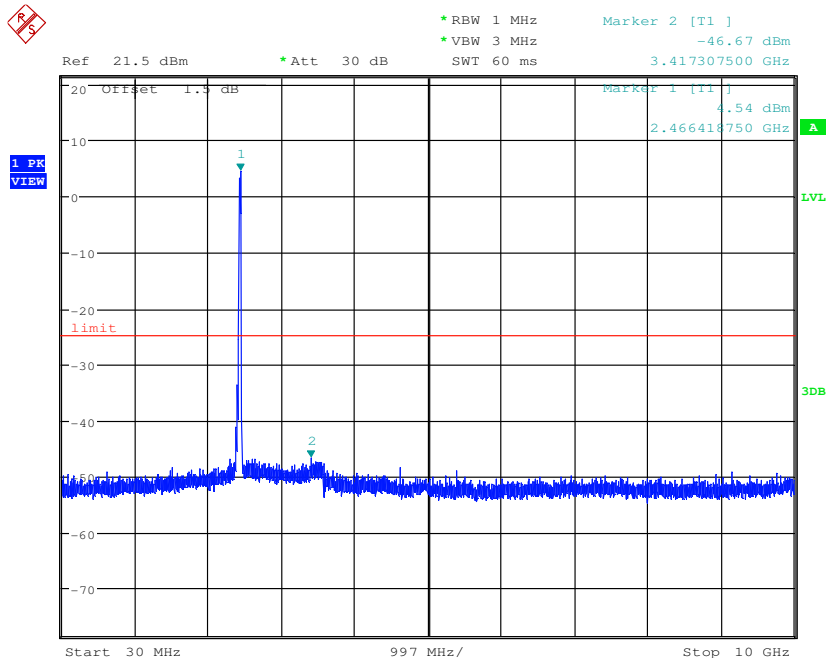
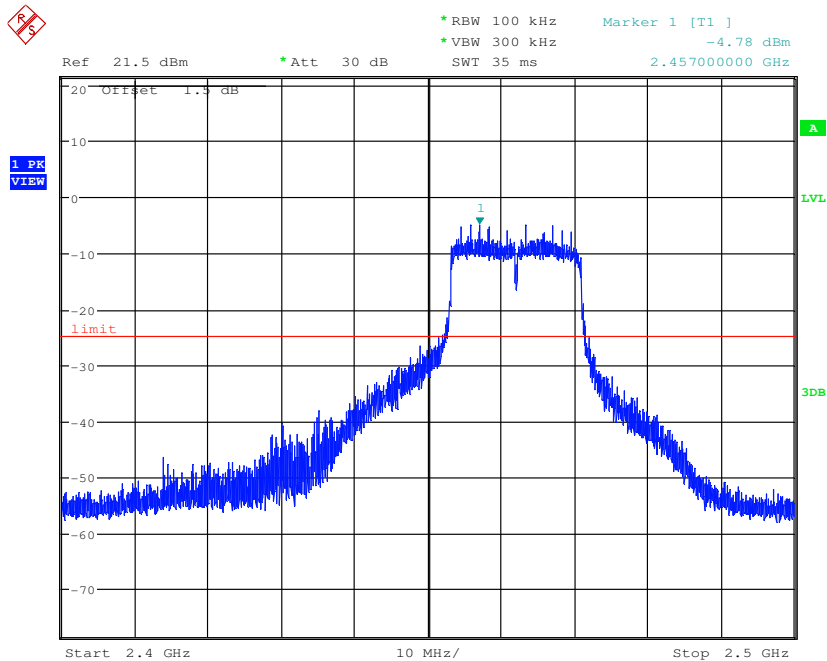


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Test mode:	802.11n(HT20)	Test channel:	Highest
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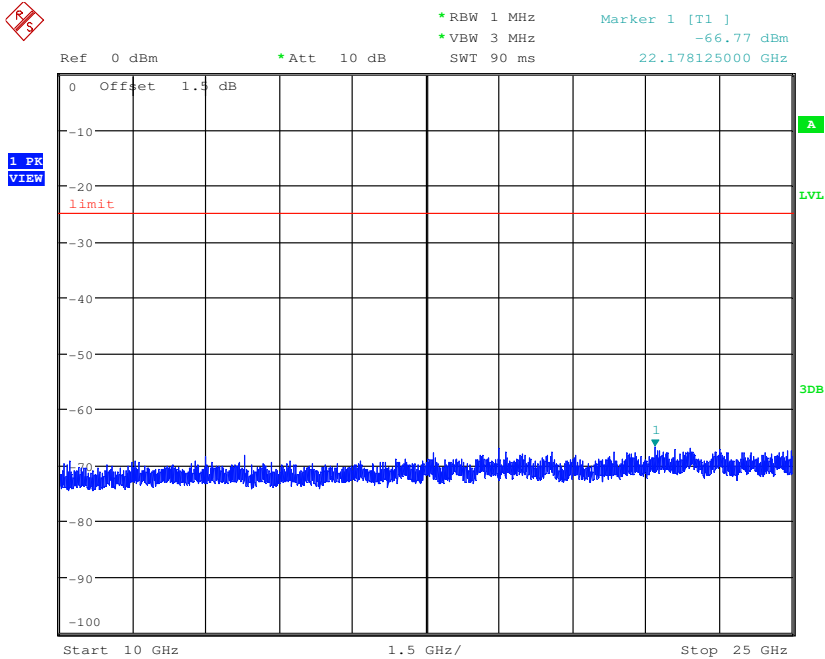
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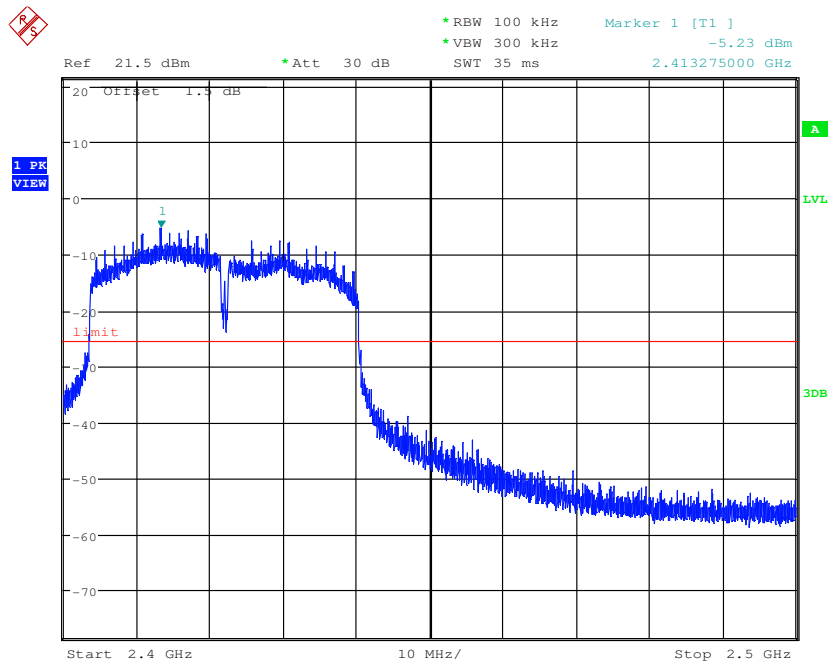
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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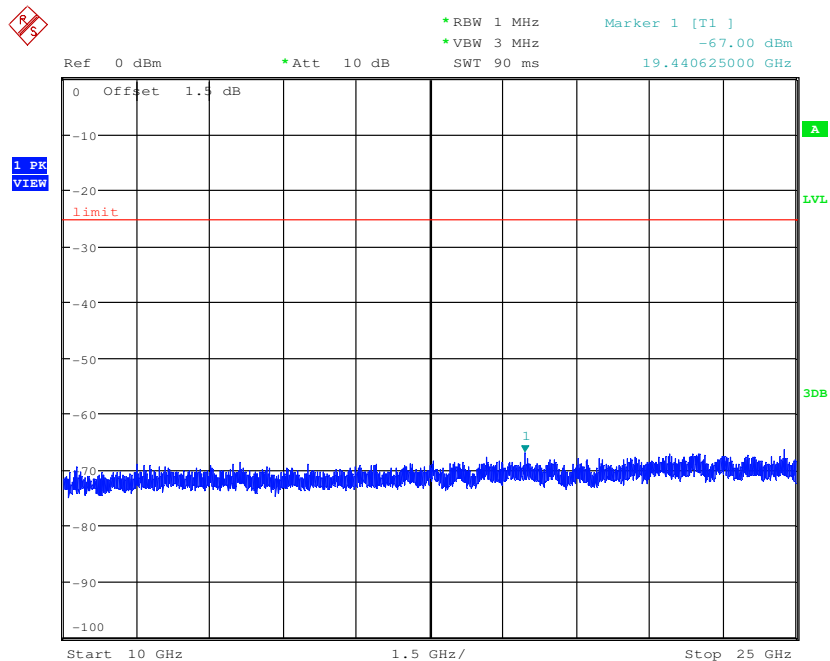
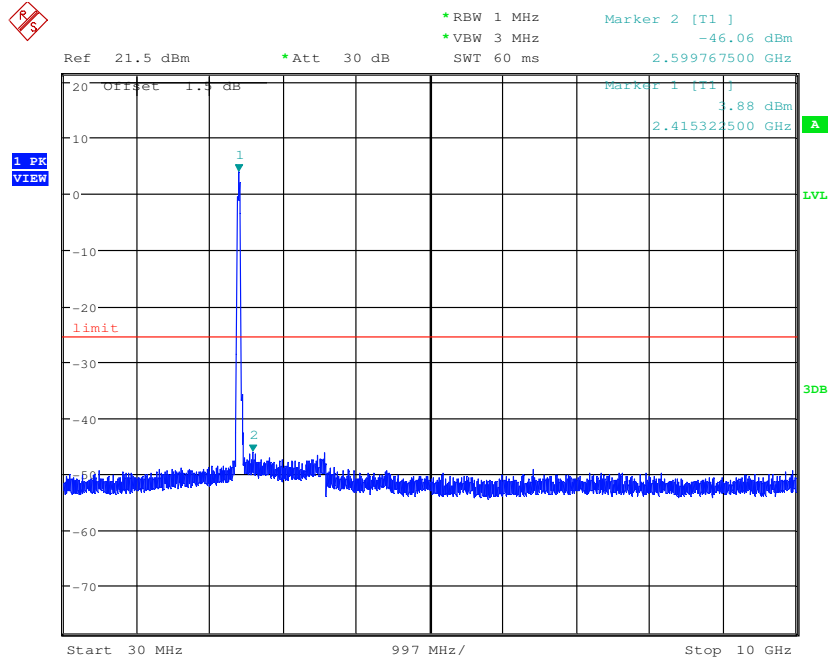
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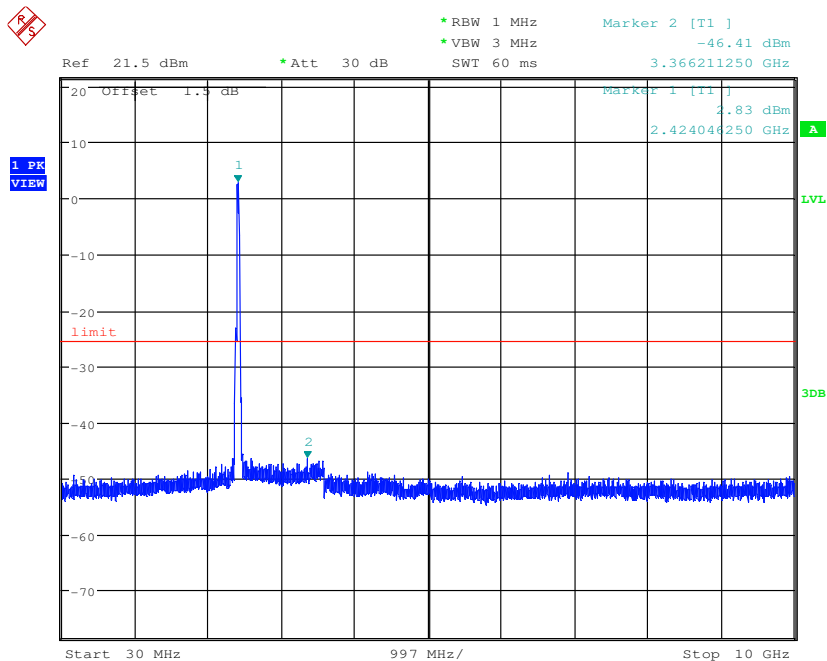
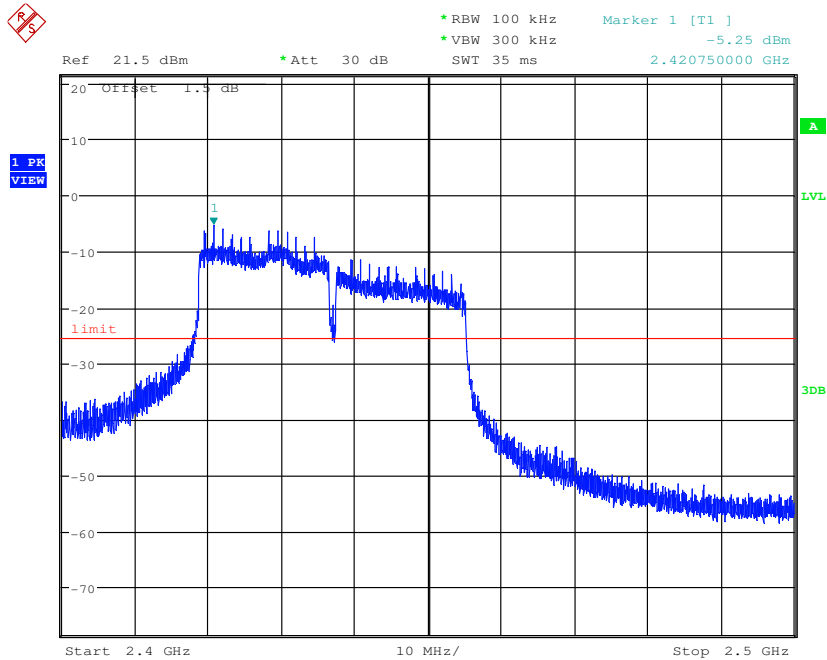
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Test mode:	802.11n(HT40)	Test channel:	Middle
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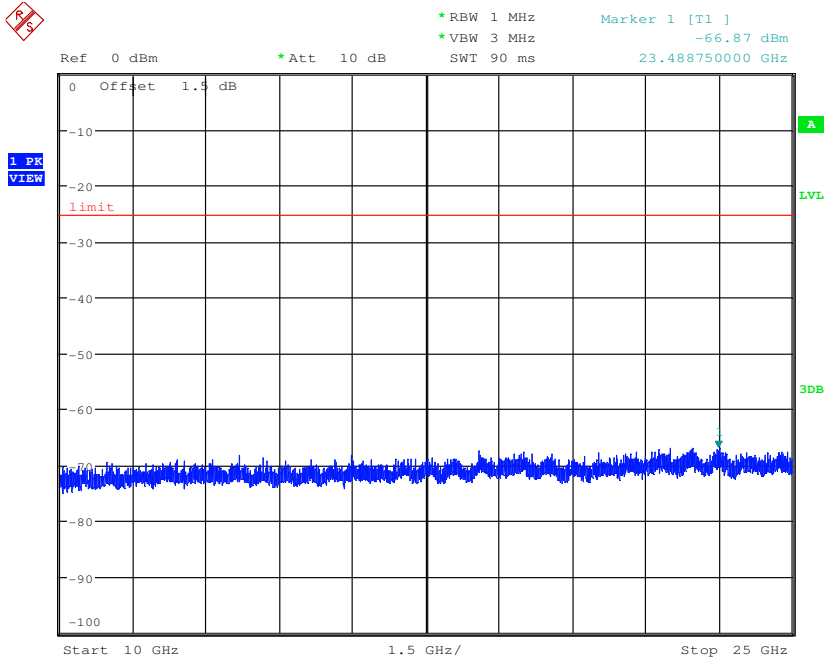
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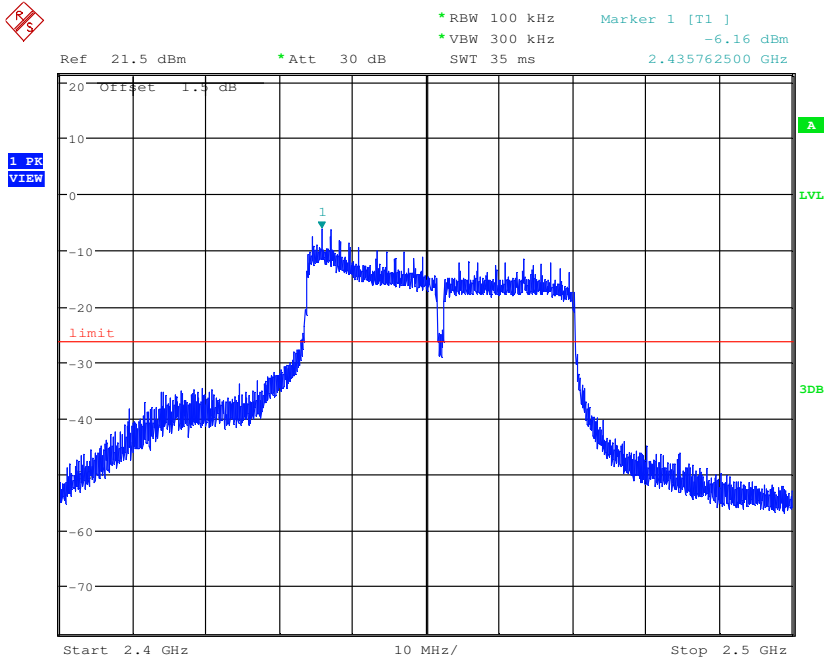
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Test mode:	802.11n(HT40)	Test channel:	Highest
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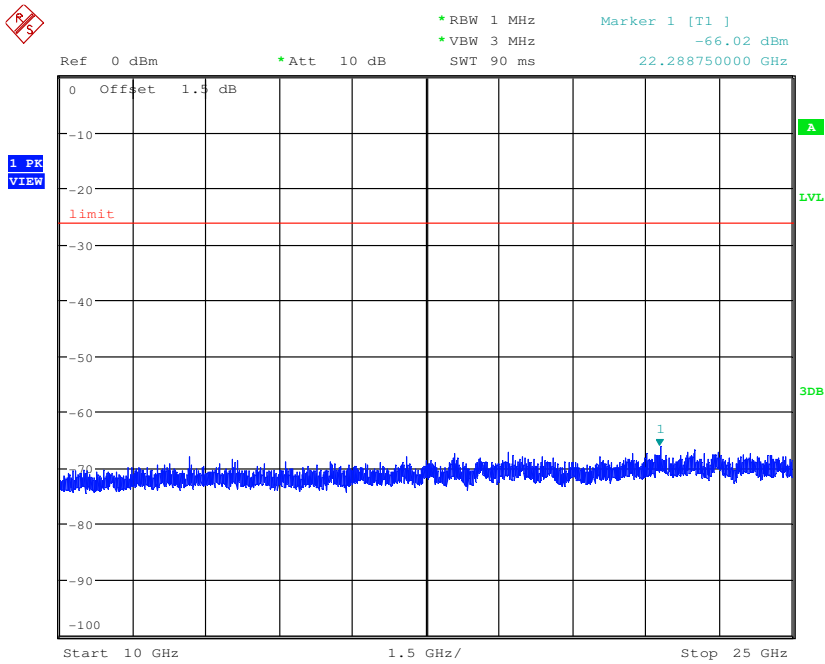
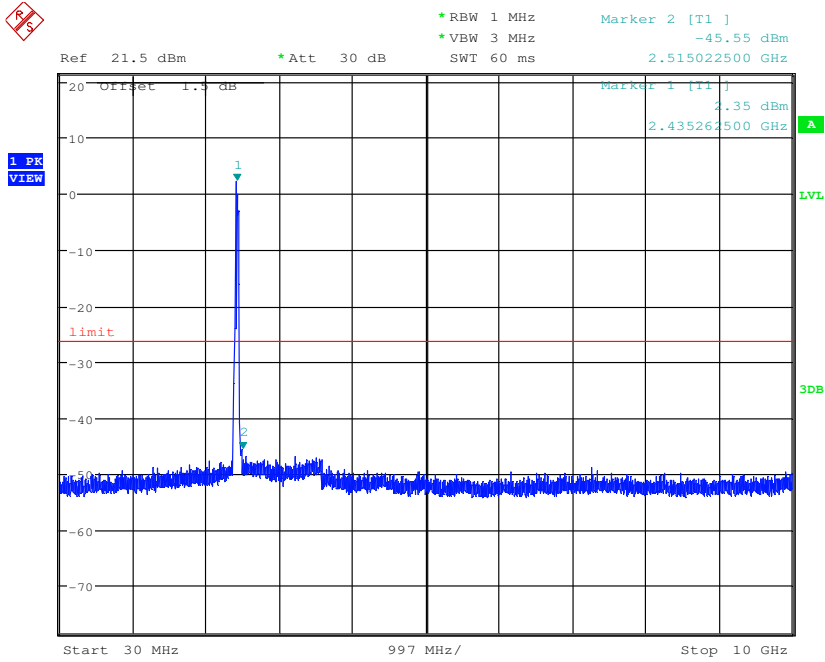


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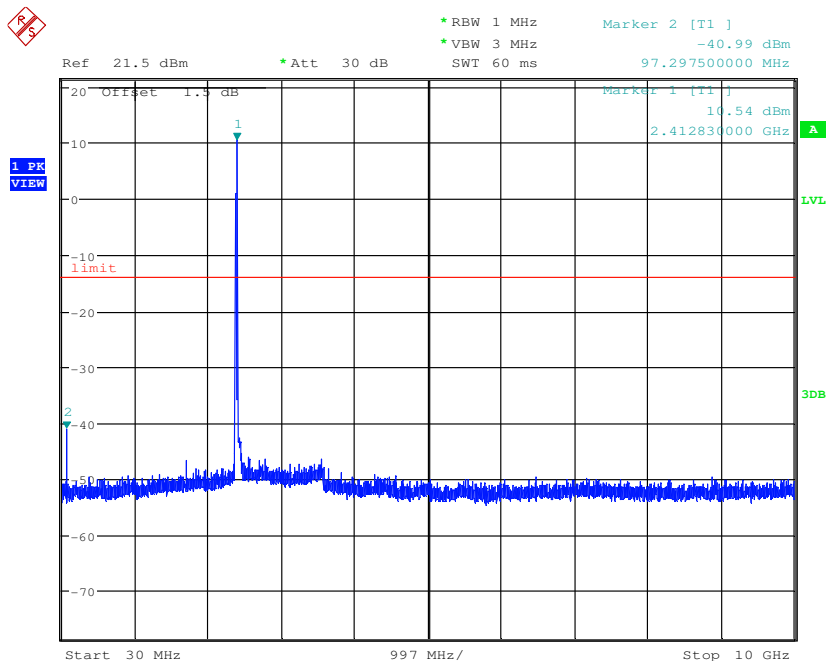
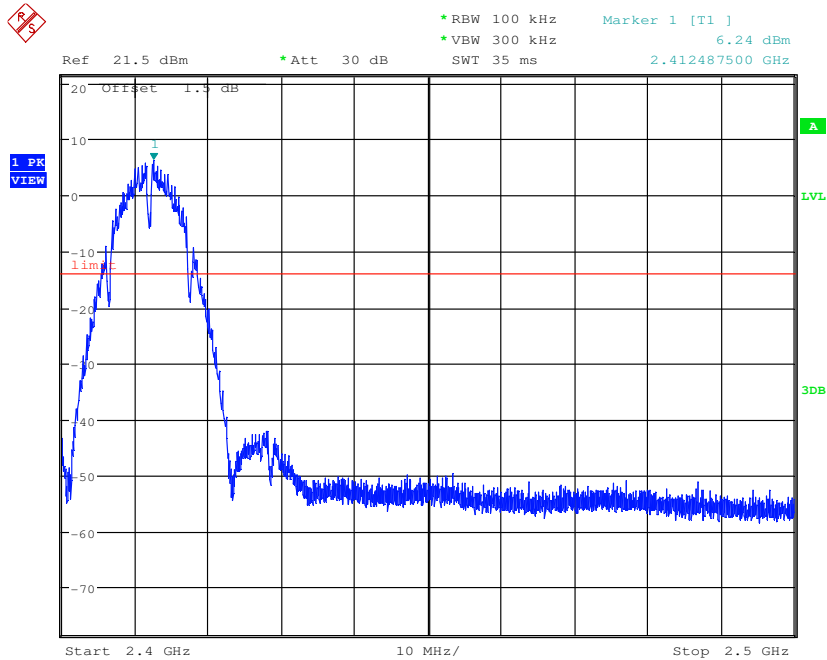
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Antenna 3

Test mode:	802.11b	Test channel:	Lowest
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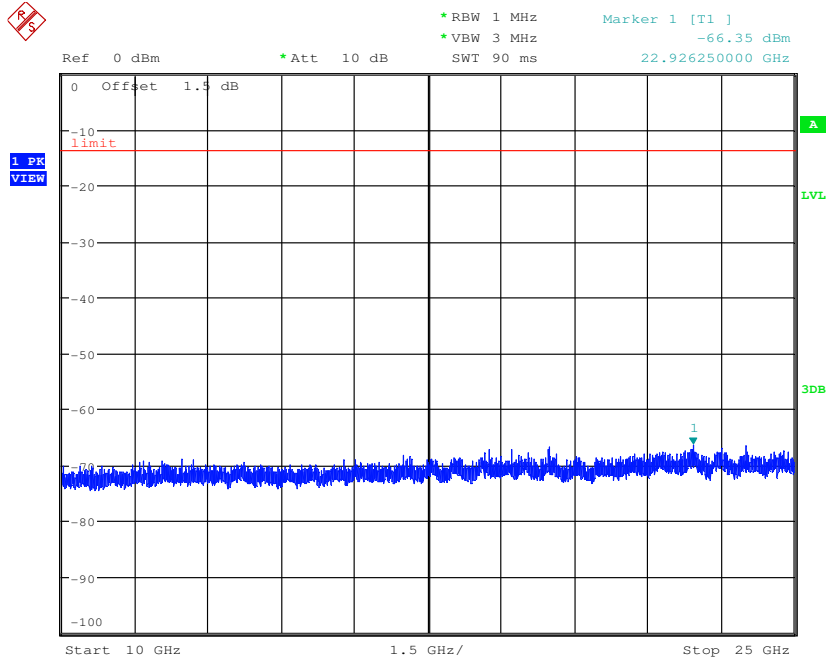
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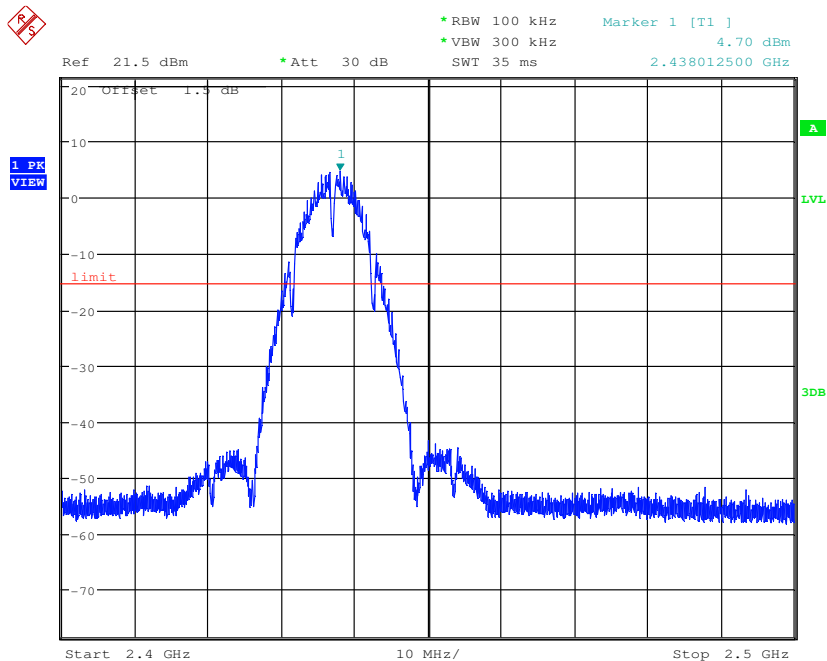
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Test mode:	802.11b	Test channel:	Middle
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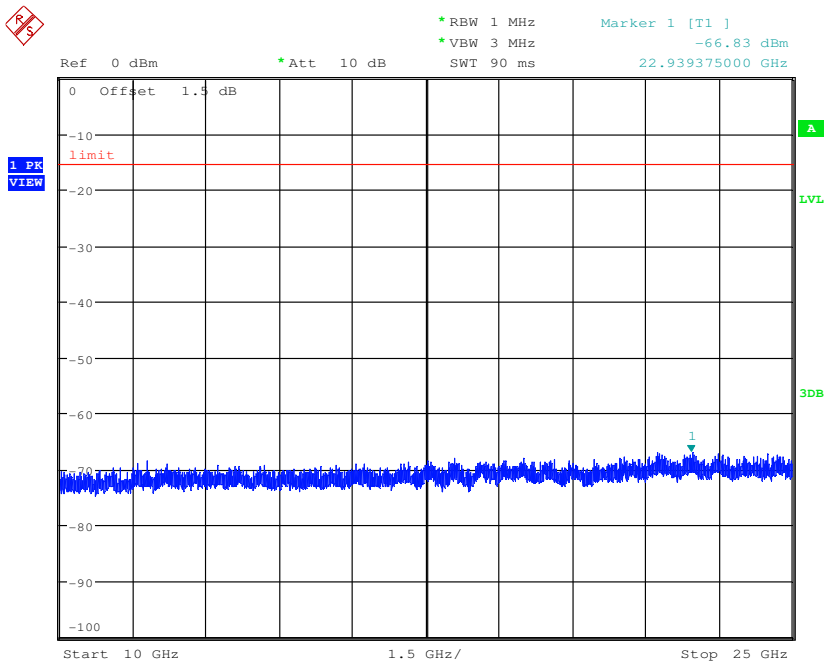
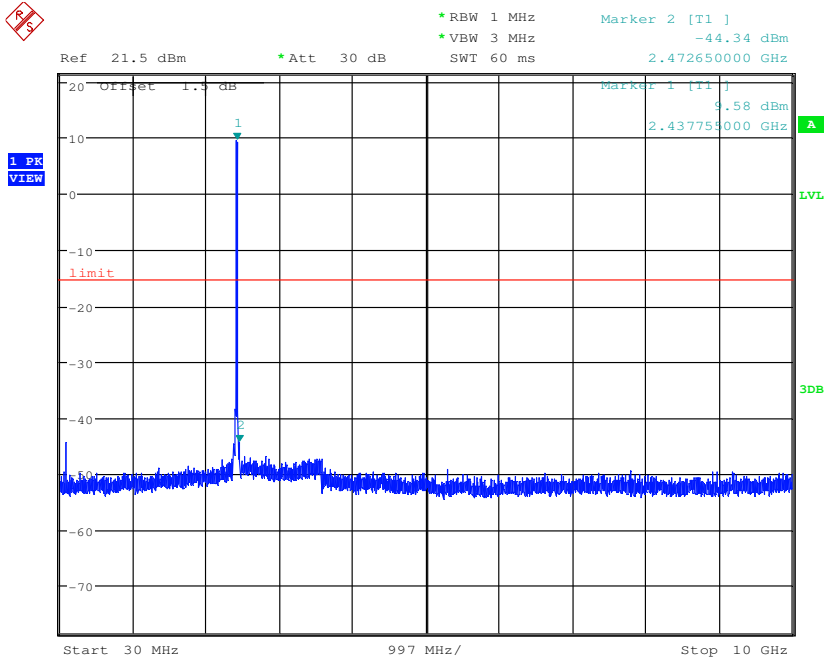


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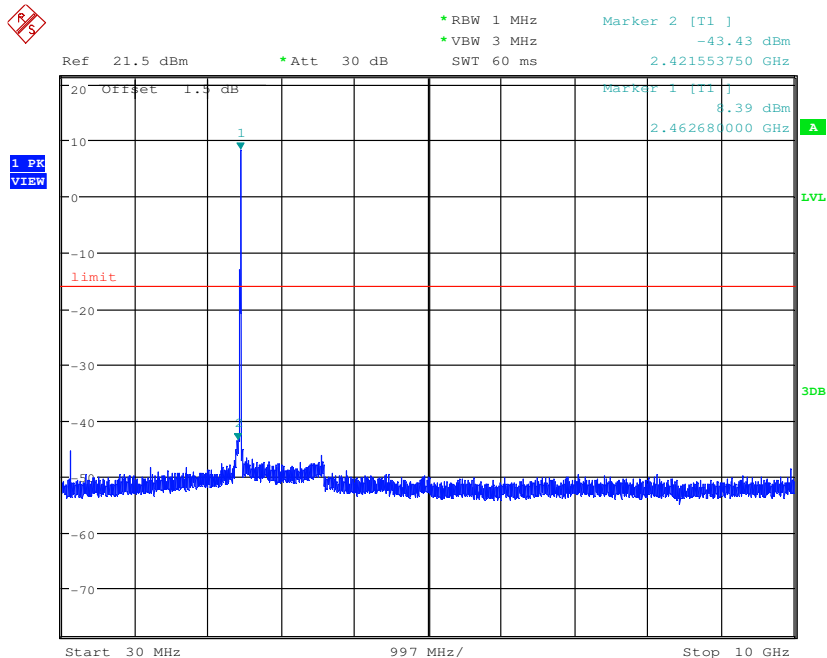
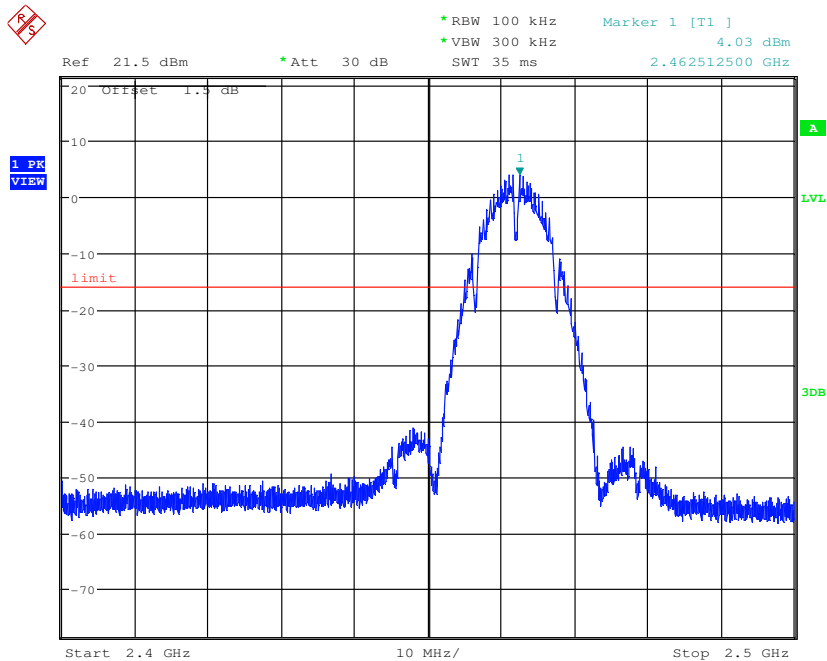
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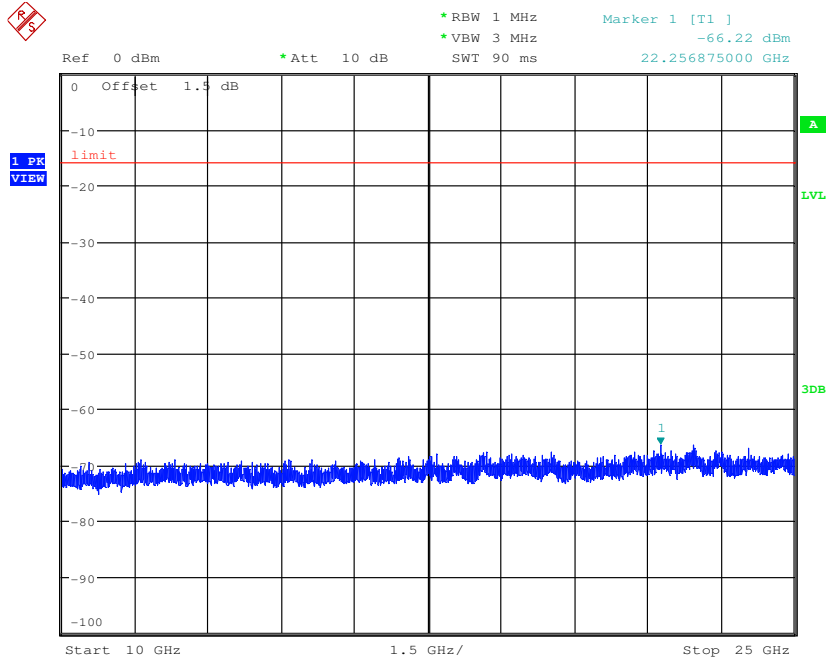
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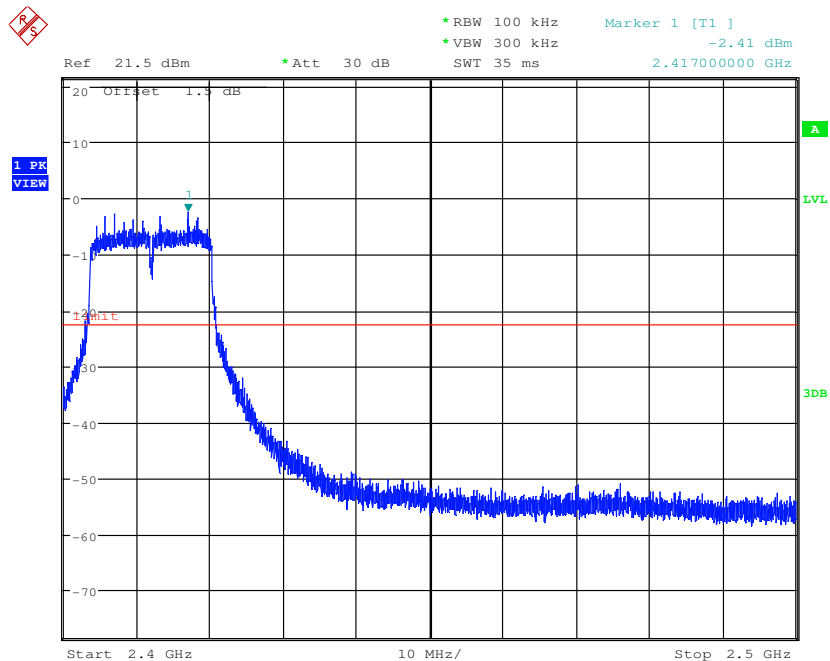
Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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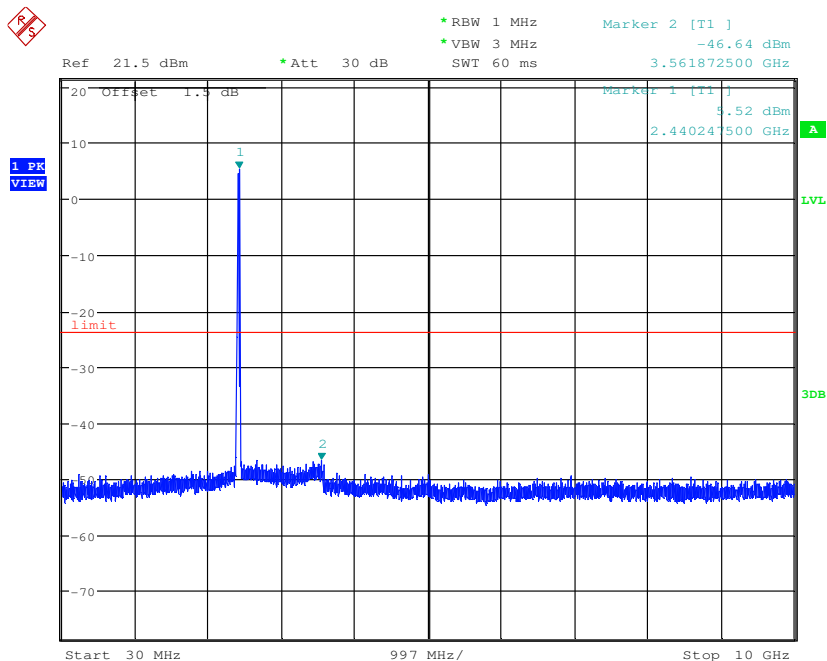
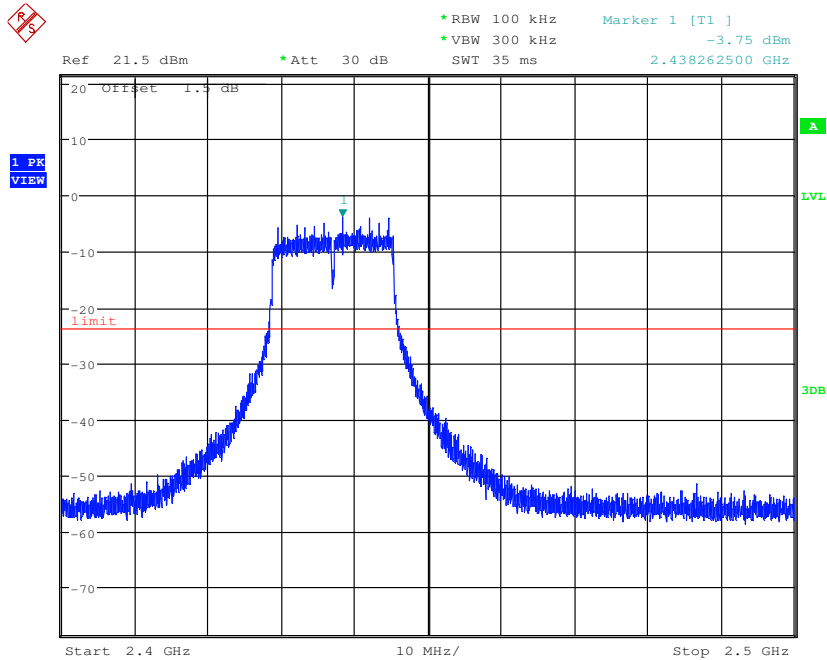


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Test mode:	802.11g	Test channel:	Middle
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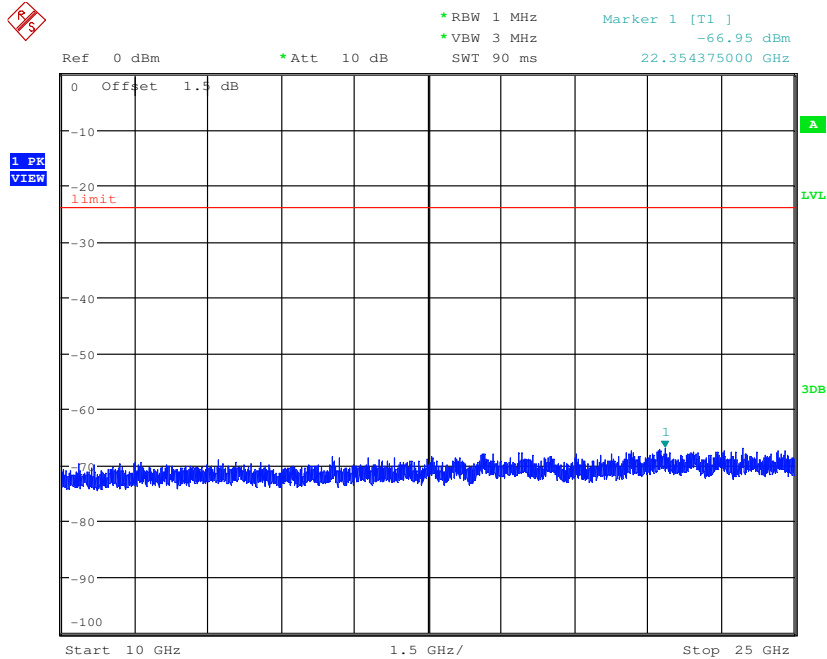
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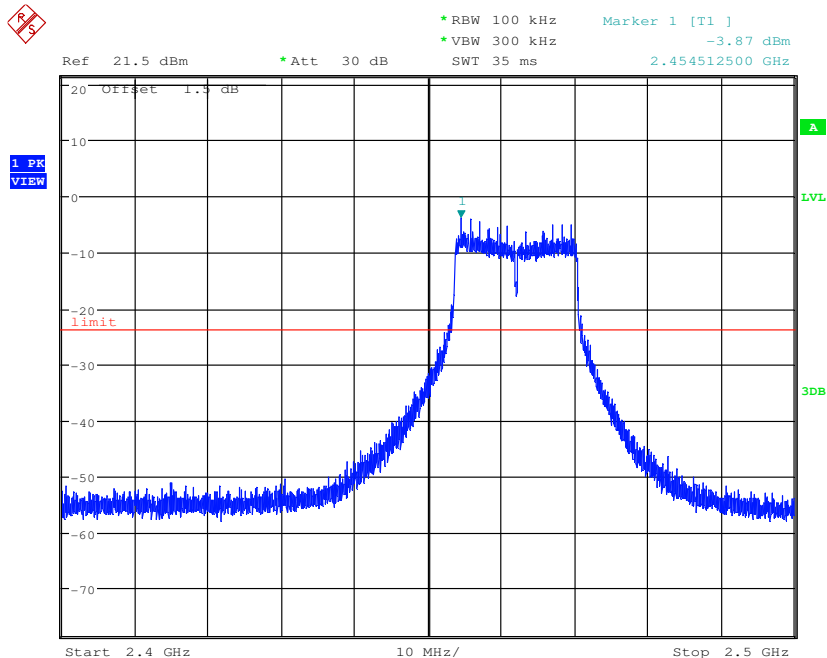
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Test mode:	802.11g	Test channel:	Highest
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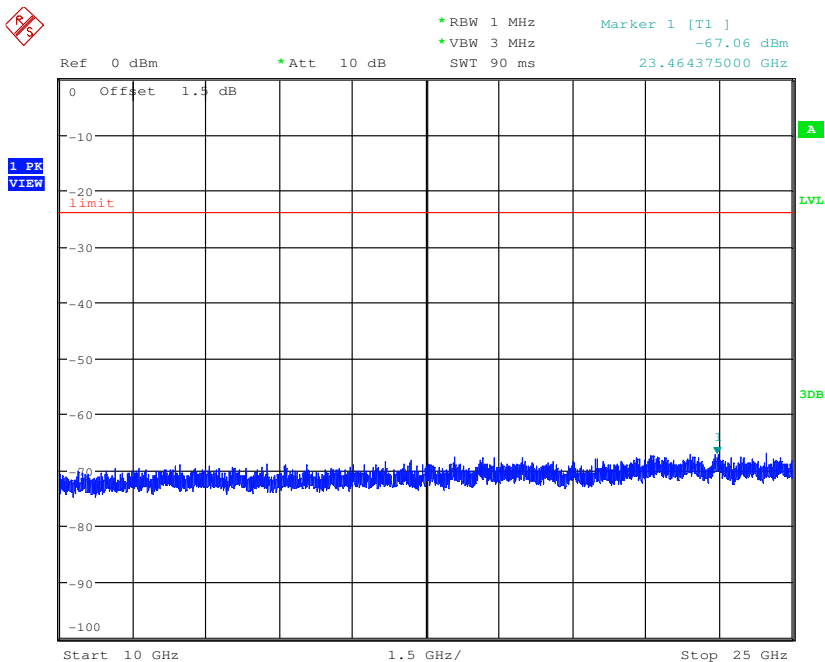
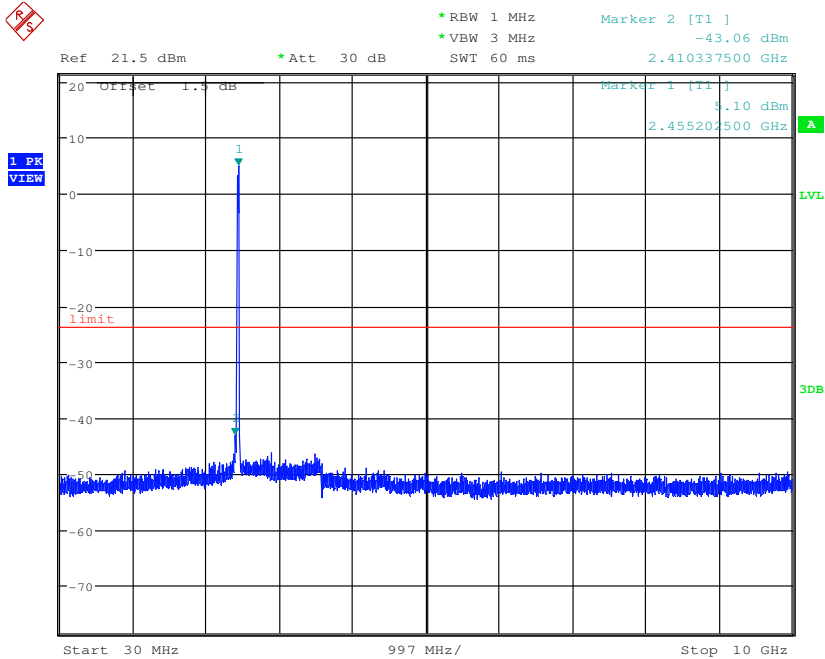
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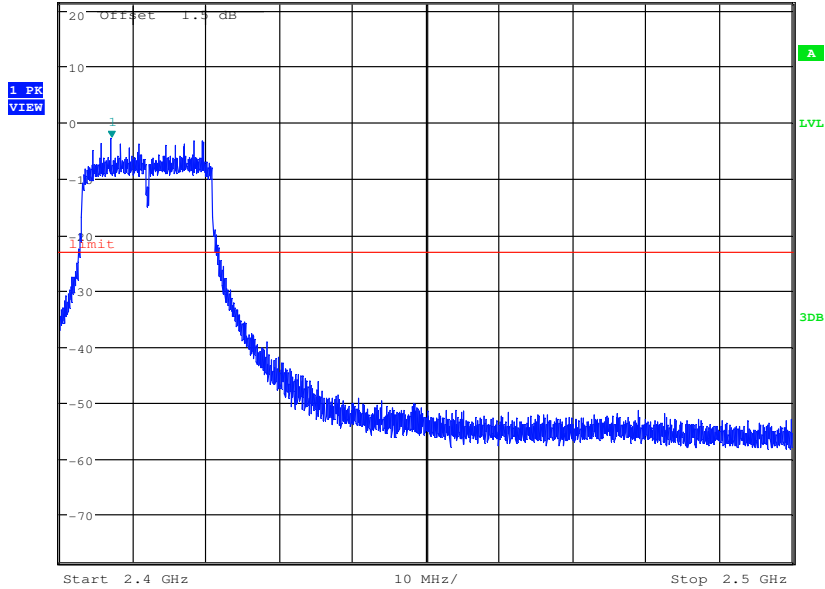
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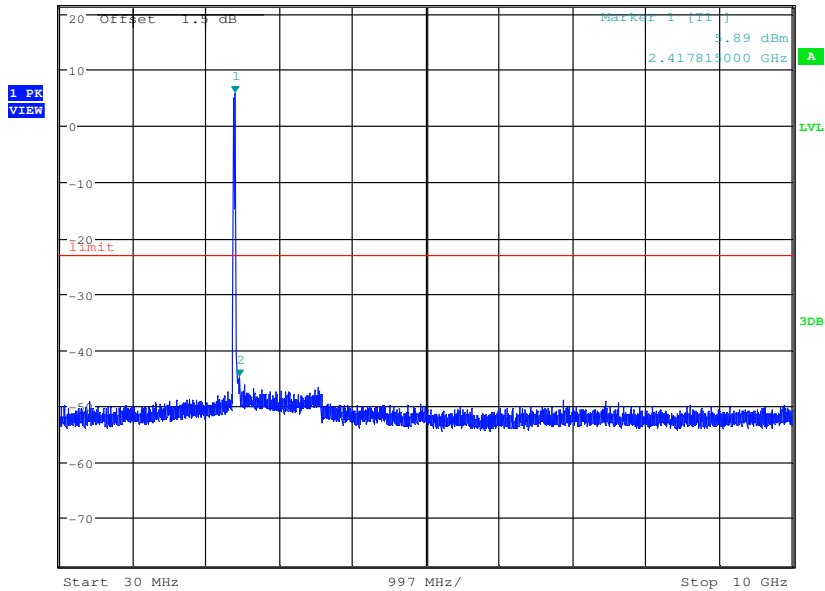
Test mode:	802.11n(HT20)	Test channel:	Lowest
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Ref 21.5 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -2.86 dBm
SWT 35 ms 2.406987500 GHz



Ref 21.5 dBm *Att 30 dB *RBW 1 MHz Marker 2 [T1]
*VBW 3 MHz -44.85 dBm
SWT 60 ms 2.477635000 GHz

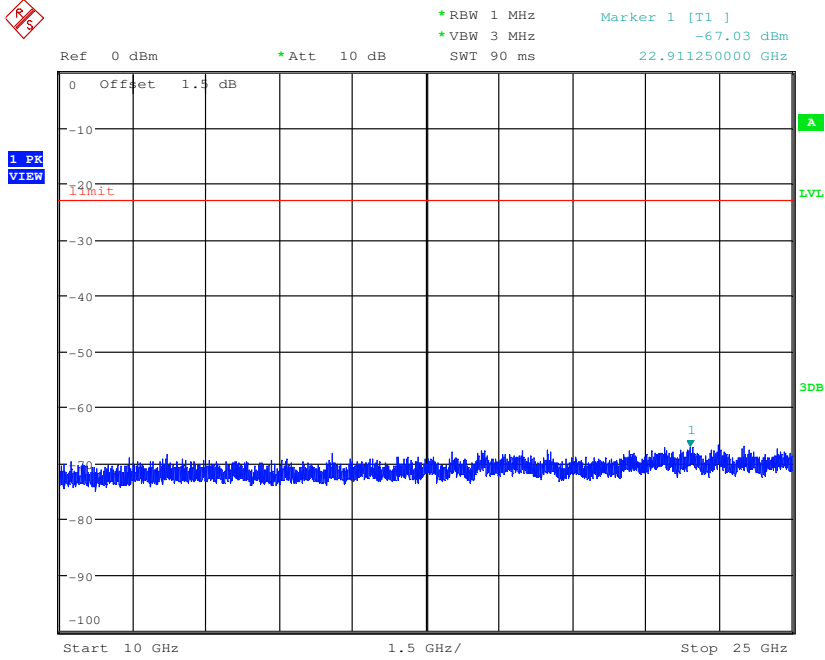


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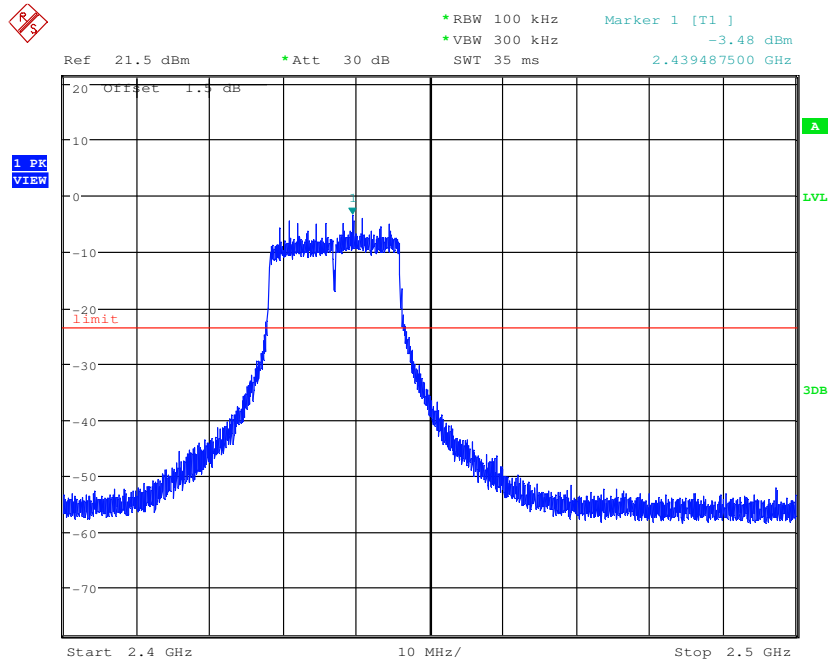


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Test mode:	802.11n(HT20)	Test channel:	Middle
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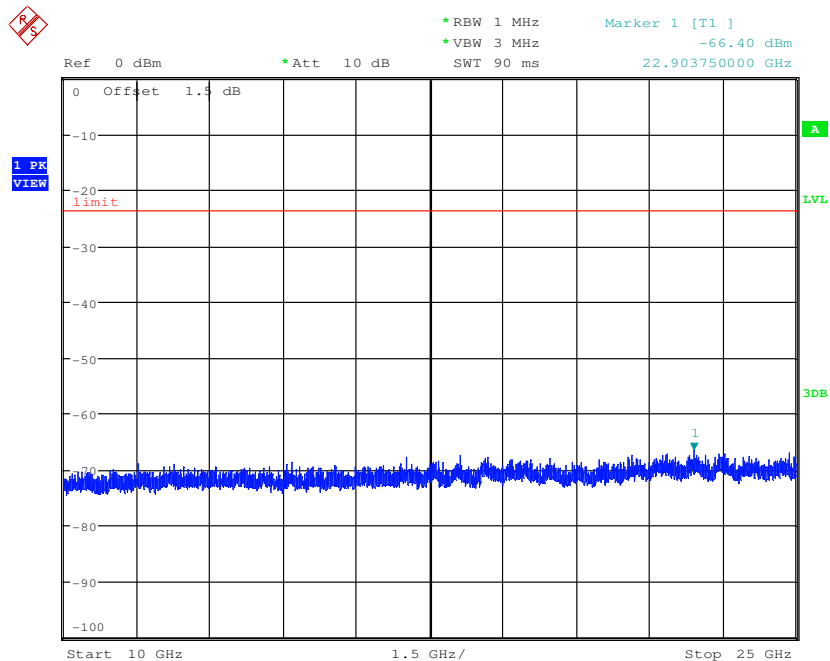
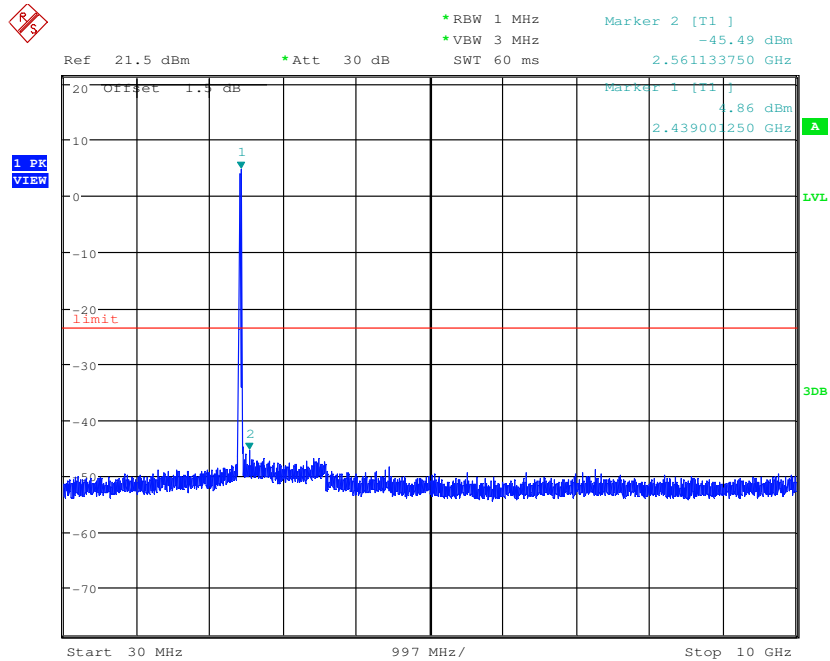
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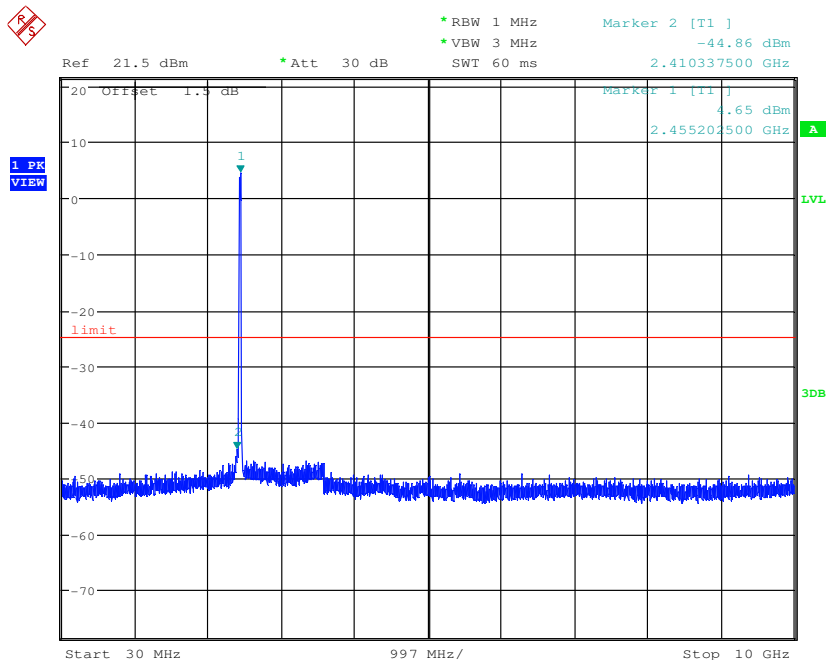
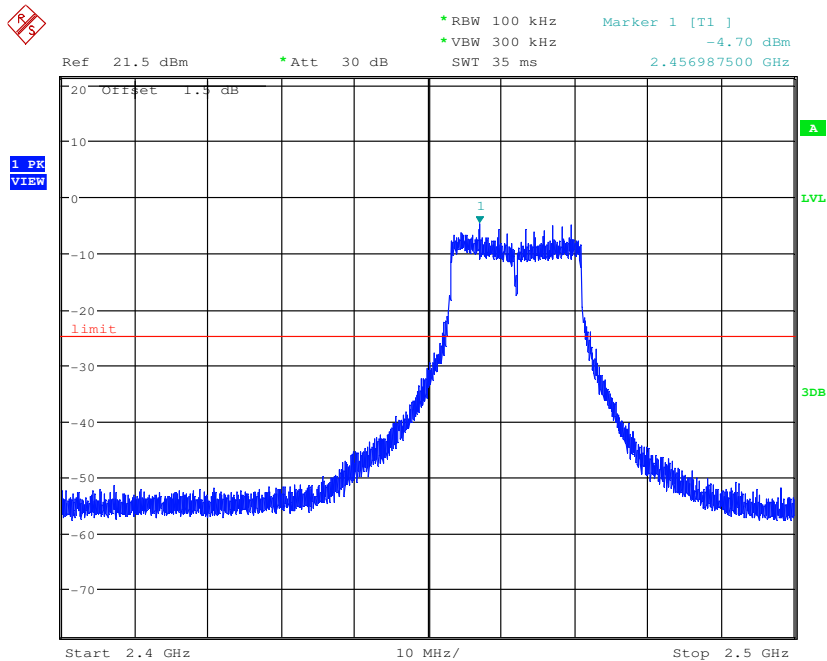


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Test mode:	802.11n(HT20)	Test channel:	Highest
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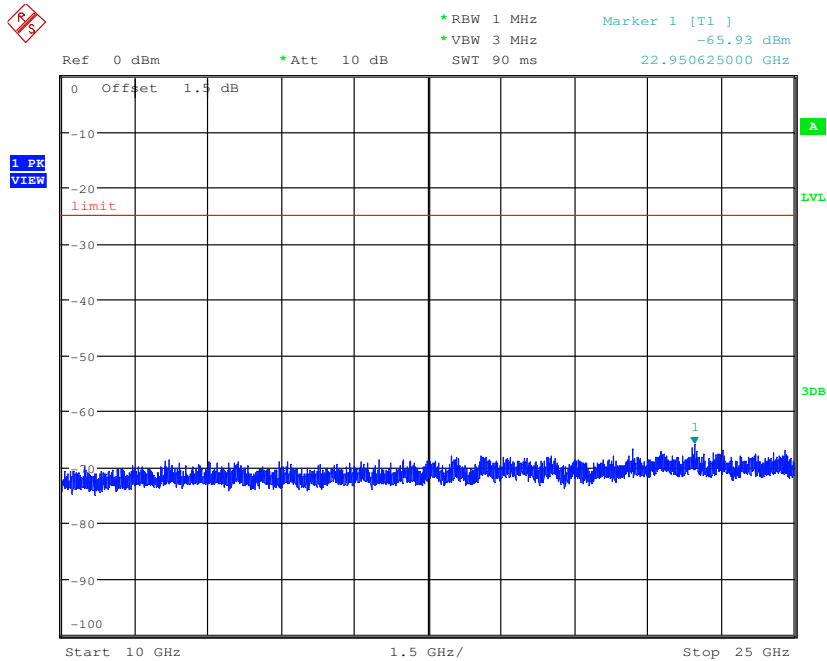
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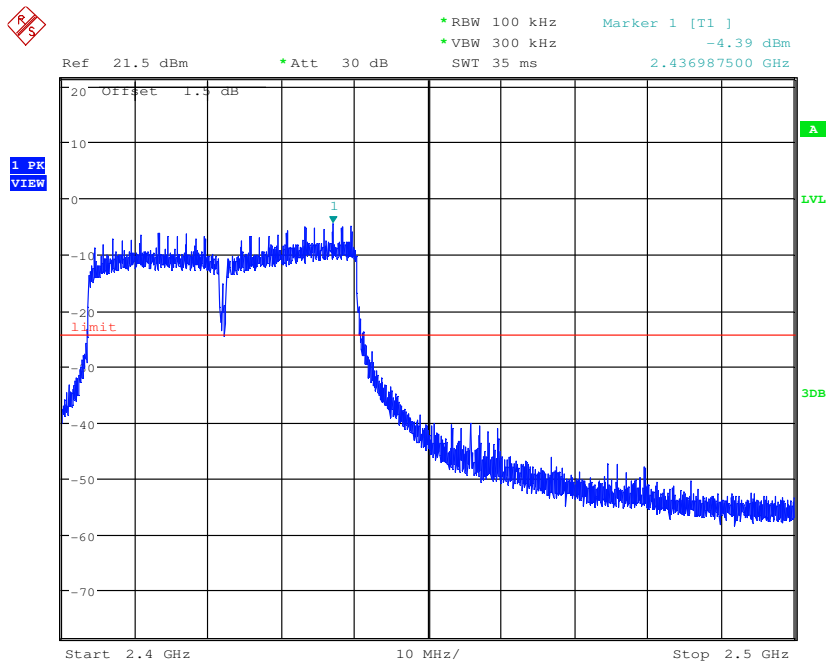
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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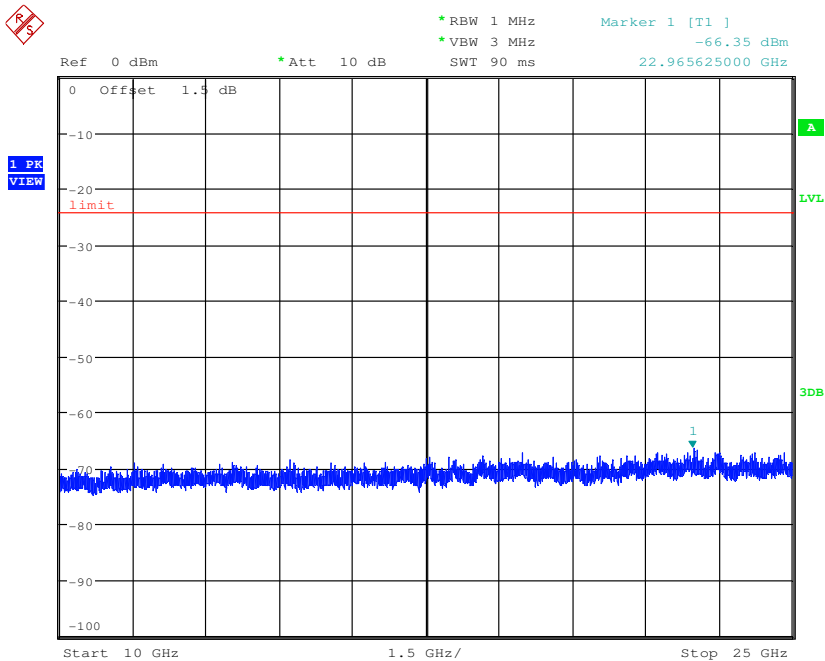
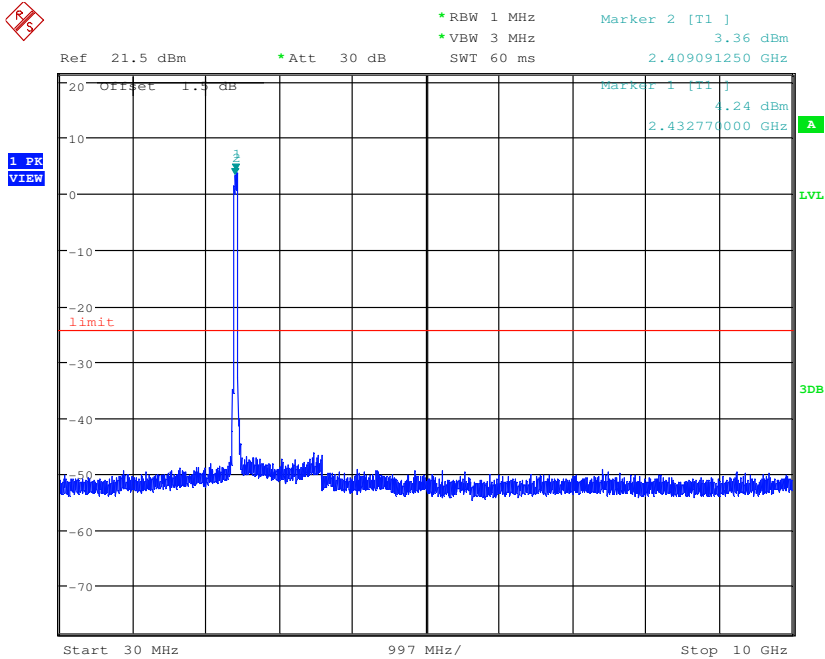
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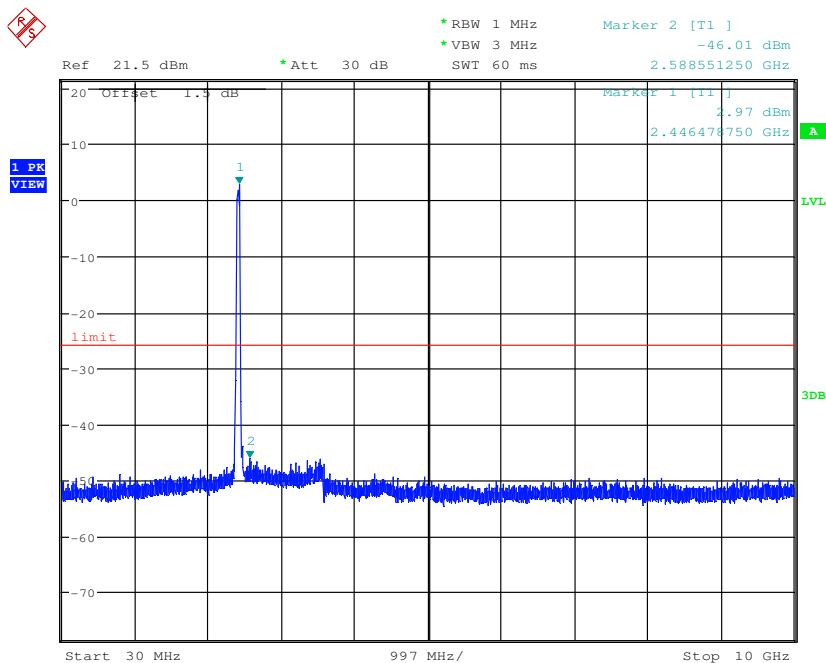
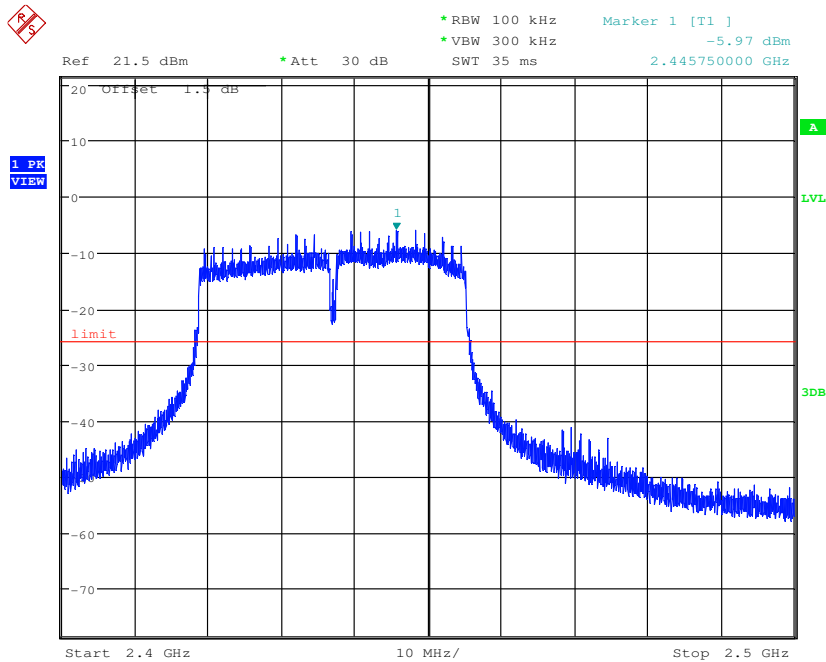


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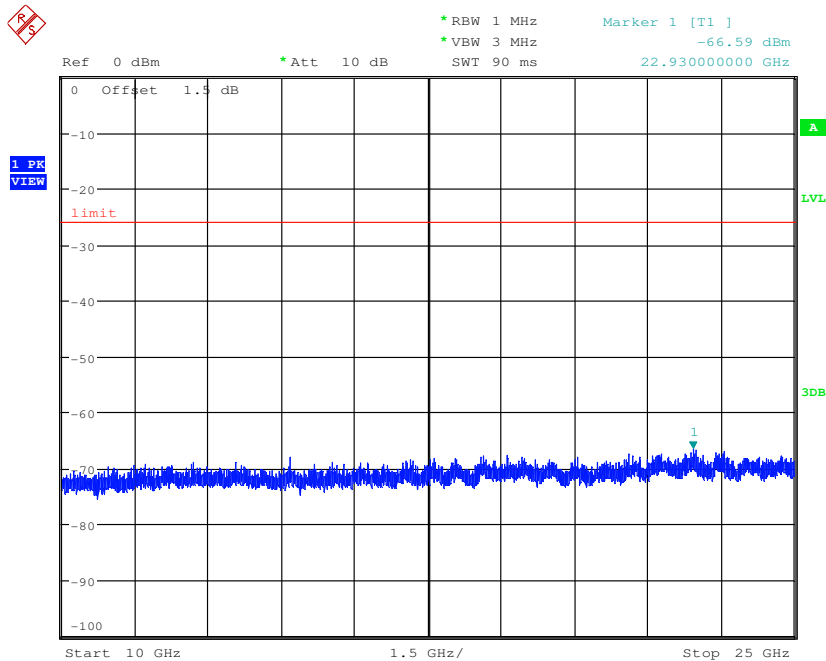
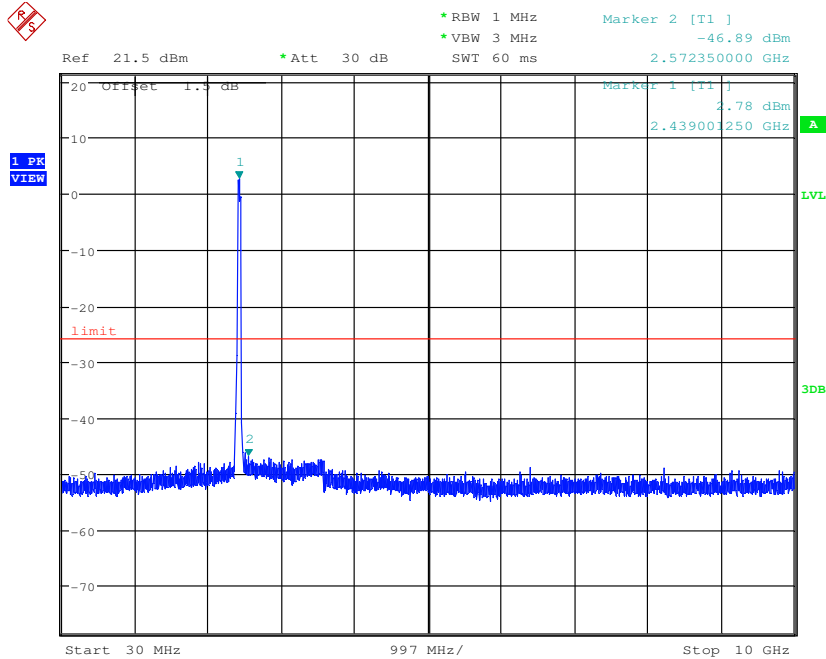
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30001.

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6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013, section 11.12.2.7				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	<p>Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.</p>				

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Test Setup:

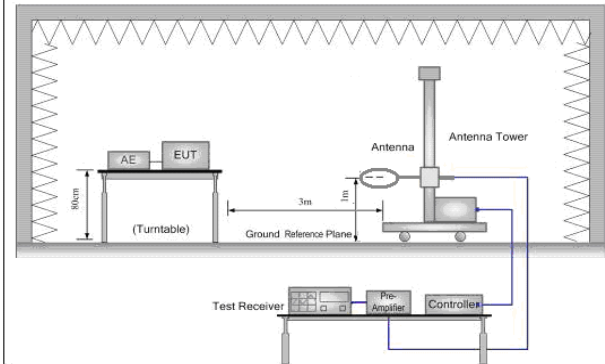


Figure 1. Below 30MHz

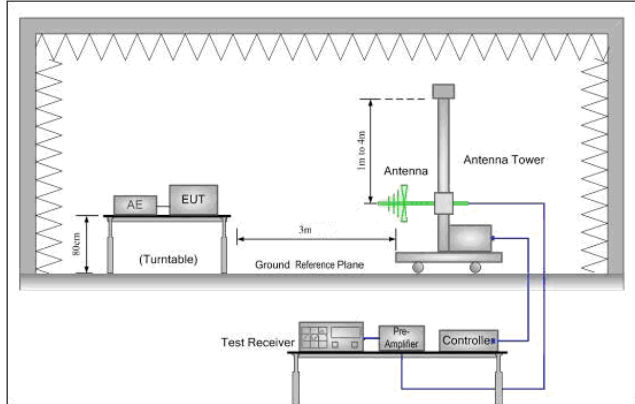


Figure 2. 30MHz to 1GHz

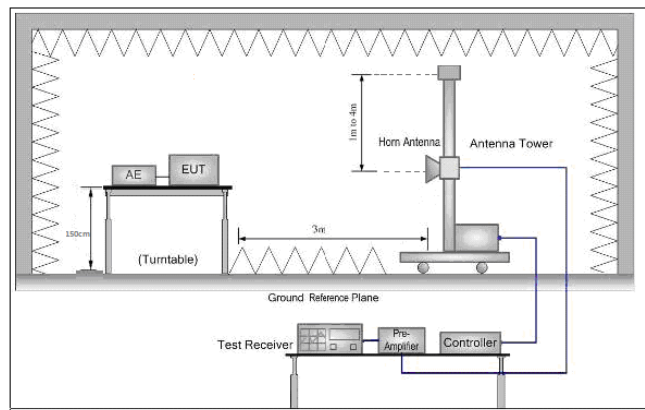


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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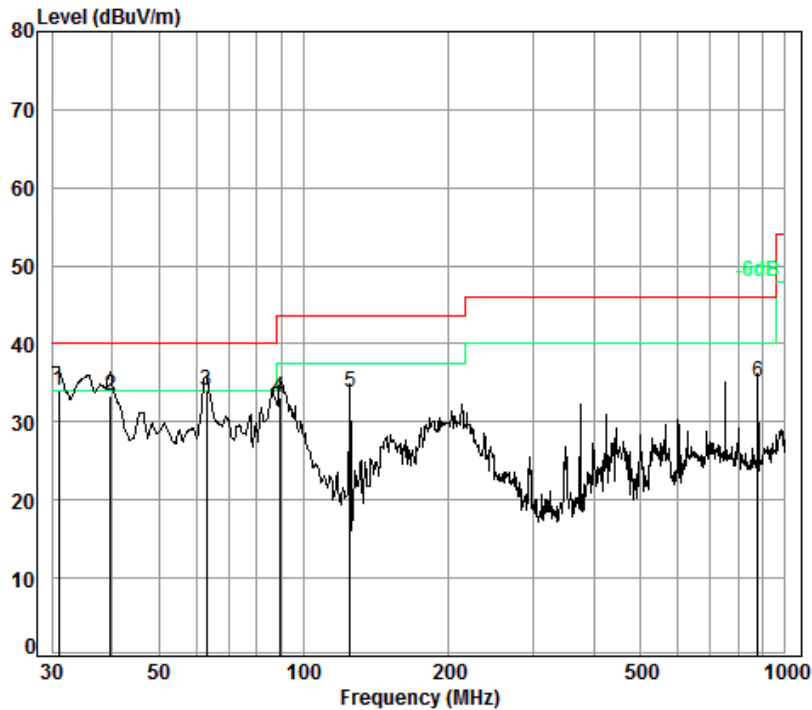
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	<p>g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical



Condition: 3m VERTICAL
Job No. : 511IT
Test mode: Tx Mode

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	30.96	0.60	18.36	27.35	42.45	34.06	-5.94
2	39.71	0.60	13.34	27.32	46.68	33.30	-6.70
3	62.87	0.80	7.11	27.26	53.26	33.91	-6.09
4	89.28	1.10	8.73	27.22	50.57	33.18	-10.32
5	125.01	1.26	8.00	27.04	51.58	33.80	-9.70
6	878.32	3.52	22.85	26.89	35.70	35.18	-10.82

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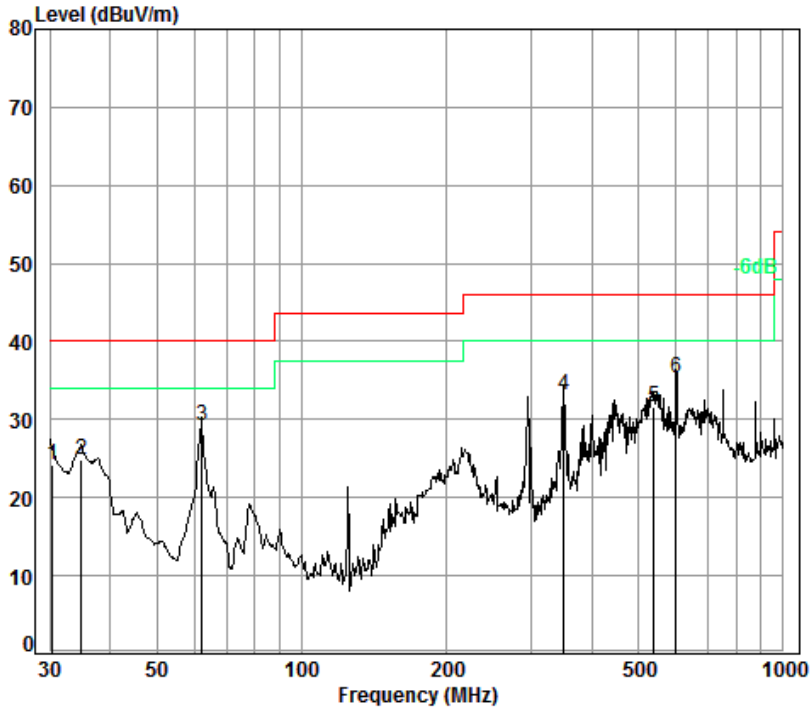


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Test mode:	Transmitting	Horizontal
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Condition: 3m HORIZONTAL

Job No. : 511IT

Test mode: Tx Mode

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.42	0.60	18.72	27.36	32.29	24.25	40.00	-15.75
2	34.88	0.60	15.96	27.34	35.57	24.79	40.00	-15.21
3	62.00	0.80	7.14	27.26	48.61	29.29	40.00	-10.71
4	350.48	2.06	15.51	26.79	42.45	33.23	46.00	-12.77
5	539.48	2.64	18.75	27.63	37.86	31.62	46.00	-14.38
6 pp	599.32	2.70	19.68	27.54	40.56	35.40	46.00	-10.60

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6.8.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	48.05	50.09	74	-23.91	Vertical
4824.000	34.12	8.90	38.75	45.64	49.91	74	-24.09	Vertical
6140.076	34.77	10.38	38.78	45.90	52.27	74	-21.73	Vertical
7236.000	35.58	10.69	37.63	42.13	50.77	74	-23.23	Vertical
9648.000	37.10	12.52	36.29	35.63	48.96	74	-25.04	Vertical
12603.270	37.90	14.44	37.75	38.07	52.66	74	-21.34	Vertical
3825.521	32.93	7.75	38.49	45.15	47.34	74	-26.66	Horizontal
4824.000	34.12	8.90	38.75	46.45	50.72	74	-23.28	Horizontal
6034.386	34.72	10.52	38.91	45.38	51.71	74	-22.29	Horizontal
7236.000	35.58	10.69	37.63	42.77	51.41	74	-22.59	Horizontal
9648.000	37.10	12.52	36.29	35.62	48.95	74	-25.05	Horizontal
12658.090	37.93	14.60	37.80	38.28	53.01	74	-20.99	Horizontal

Test mode:	802.11b	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	45.90	47.94	74	-26.06	Vertical
4874.000	34.17	8.97	38.76	46.06	50.44	74	-23.56	Vertical
6087.002	34.74	10.45	38.85	45.92	52.26	74	-21.74	Vertical
7311.000	35.54	10.72	37.59	41.36	50.03	74	-23.97	Vertical
9748.000	37.10	12.58	36.16	39.85	53.37	74	-20.63	Vertical
12639.790	37.92	14.55	37.79	38.61	53.29	74	-20.71	Vertical
3803.444	32.90	7.74	38.49	45.65	47.80	74	-26.20	Horizontal
4874.000	34.17	8.97	38.76	46.09	50.47	74	-23.53	Horizontal
6140.076	34.77	10.38	38.78	45.77	52.14	74	-21.86	Horizontal
7311.000	35.54	10.72	37.59	41.96	50.63	74	-23.37	Horizontal
9748.000	37.10	12.58	36.16	39.64	53.16	74	-20.84	Horizontal
12639.790	37.92	14.55	37.79	38.99	53.67	74	-20.33	Horizontal

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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3825.521	32.93	7.75	38.49	45.38	47.57	74	-26.43	Vertical
4924.000	34.22	9.04	38.77	45.95	50.44	74	-23.56	Vertical
6122.333	34.76	10.40	38.80	45.60	51.96	74	-22.04	Vertical
7386.000	35.51	10.75	37.56	41.45	50.15	74	-23.85	Vertical
9848.000	37.15	12.63	36.03	39.55	53.30	74	-20.70	Vertical
12603.270	37.90	14.44	37.75	37.97	52.56	74	-21.44	Vertical
3825.521	32.93	7.75	38.49	45.97	48.16	74	-25.84	Horizontal
4924.000	34.22	9.04	38.77	46.42	50.91	74	-23.09	Horizontal
6087.002	34.74	10.45	38.85	45.71	52.05	74	-21.95	Horizontal
7386.000	35.51	10.75	37.56	41.96	50.66	74	-23.34	Horizontal
9848.000	37.15	12.63	36.03	38.79	52.54	74	-21.46	Horizontal
12603.270	37.90	14.44	37.75	39.15	53.74	74	-20.26	Horizontal

Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	46.22	48.26	74	-25.74	Vertical
4824.000	34.12	8.90	38.75	48.88	53.15	74	-20.85	Vertical
5999.562	34.70	10.56	38.96	45.99	52.29	74	-21.71	Vertical
7236.000	35.58	10.69	37.63	42.85	51.49	74	-22.51	Vertical
9648.000	37.10	12.52	36.29	36.58	49.91	74	-24.09	Vertical
12603.270	37.90	14.44	37.75	38.53	53.12	74	-20.88	Vertical
3915.118	33.02	7.78	38.53	46.01	48.28	74	-25.72	Horizontal
4824.000	34.12	8.90	38.75	49.57	53.84	74	-20.16	Horizontal
6016.949	34.71	10.54	38.94	45.65	51.96	74	-22.04	Horizontal
7236.000	35.58	10.69	37.63	43.64	52.28	74	-21.72	Horizontal
9648.000	37.10	12.52	36.29	34.83	48.16	74	-25.84	Horizontal
12639.790	37.92	14.55	37.79	38.92	53.60	74	-20.40	Horizontal

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Test mode:	802.11g	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3803.444	32.90	7.74	38.49	45.69	47.84	74	-26.16	Vertical
4874.000	34.17	8.97	38.76	45.61	49.99	74	-24.01	Vertical
6140.076	34.77	10.38	38.78	45.79	52.16	74	-21.84	Vertical
7311.000	35.54	10.72	37.59	41.84	50.51	74	-23.49	Vertical
9748.000	37.10	12.58	36.16	39.11	52.63	74	-21.37	Vertical
12530.530	37.83	14.24	37.68	39.14	53.53	74	-20.47	Vertical
3814.467	32.91	7.75	38.49	45.39	47.56	74	-26.44	Horizontal
4874.000	34.17	8.97	38.76	47.31	51.69	74	-22.31	Horizontal
6140.076	34.77	10.38	38.78	45.99	52.36	74	-21.64	Horizontal
7311.000	35.54	10.72	37.59	41.59	50.26	74	-23.74	Horizontal
9748.000	37.10	12.58	36.16	39.60	53.12	74	-20.88	Horizontal
12603.270	37.90	14.44	37.75	38.15	52.74	74	-21.26	Horizontal

Test mode:	802.11g	Test channel:	Highest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3915.118	33.02	7.78	38.53	46.29	48.56	74	-25.44	Vertical
4924.000	34.22	9.04	38.77	47.18	51.67	74	-22.33	Vertical
6265.724	34.80	10.22	38.61	46.38	52.79	74	-21.21	Vertical
7386.000	35.51	10.75	37.56	41.60	50.30	74	-23.70	Vertical
9848.000	37.15	12.63	36.03	39.85	53.60	74	-20.40	Vertical
12676.420	37.94	14.65	37.82	37.75	52.52	74	-21.48	Vertical
4018.425	33.15	7.83	38.56	47.36	49.78	74	-24.22	Horizontal
4924.000	34.22	9.04	38.77	47.31	51.80	74	-22.20	Horizontal
6016.949	34.71	10.54	38.94	46.20	52.51	74	-21.49	Horizontal
7386.000	35.51	10.75	37.56	41.76	50.46	74	-23.54	Horizontal
9848.000	37.15	12.63	36.03	39.99	53.74	74	-20.26	Horizontal
12566.850	37.87	14.34	37.72	37.77	52.26	74	-21.74	Horizontal

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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	46.52	48.56	74	-25.44	Vertical
4824.000	34.12	8.90	38.75	45.57	49.84	74	-24.16	Vertical
6122.333	34.76	10.40	38.80	45.75	52.11	74	-21.89	Vertical
7236.000	35.58	10.69	37.63	42.65	51.29	74	-22.71	Vertical
9648.000	37.10	12.52	36.29	35.15	48.48	74	-25.52	Vertical
12603.270	37.90	14.44	37.75	38.42	53.01	74	-20.99	Vertical
3870.060	32.97	7.77	38.51	45.42	47.65	74	-26.35	Horizontal
4824.000	34.12	8.90	38.75	48.83	53.10	74	-20.90	Horizontal
5999.562	34.70	10.56	38.96	45.93	52.23	74	-21.77	Horizontal
7236.000	35.58	10.69	37.63	42.49	51.13	74	-22.87	Horizontal
9648.000	37.10	12.52	36.29	35.46	48.79	74	-25.21	Horizontal
12639.790	37.92	14.55	37.79	38.83	53.51	74	-20.49	Horizontal

Test mode:	802.11n(HT20)	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3825.521	32.93	7.75	38.49	45.23	47.42	74	-26.58	Vertical
4874.000	34.17	8.97	38.76	46.90	51.28	74	-22.72	Vertical
5964.939	34.61	10.46	38.95	46.10	52.22	74	-21.78	Vertical
7311.000	35.54	10.72	37.59	42.41	51.08	74	-22.92	Vertical
9748.000	37.10	12.58	36.16	39.01	52.53	74	-21.47	Vertical
12603.270	37.90	14.44	37.75	38.61	53.20	74	-20.80	Vertical
3892.524	32.99	7.77	38.52	45.89	48.13	74	-25.87	Horizontal
4874.000	34.17	8.97	38.76	47.50	51.88	74	-22.12	Horizontal
5794.797	34.20	9.98	38.93	46.50	51.75	74	-22.25	Horizontal
7311.000	35.54	10.72	37.59	41.26	49.93	74	-24.07	Horizontal
9748.000	37.10	12.58	36.16	39.46	52.98	74	-21.02	Horizontal
12639.790	37.92	14.55	37.79	38.81	53.49	74	-20.51	Horizontal

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Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3792.453	32.87	7.74	38.48	45.55	47.68	74	-26.32	Vertical
4924.000	34.22	9.04	38.77	47.37	51.86	74	-22.14	Vertical
6016.949	34.71	10.54	38.94	45.49	51.80	74	-22.20	Vertical
7386.000	35.51	10.75	37.56	42.20	50.90	74	-23.10	Vertical
9848.000	37.15	12.63	36.03	40.01	53.76	74	-20.24	Vertical
12530.530	37.83	14.24	37.68	38.88	53.27	74	-20.73	Vertical
3770.567	32.78	7.73	38.47	46.49	48.53	74	-25.47	Horizontal
4924.000	34.22	9.04	38.77	46.61	51.10	74	-22.90	Horizontal
6034.386	34.72	10.52	38.91	45.58	51.91	74	-22.09	Horizontal
7386.000	35.51	10.75	37.56	41.42	50.12	74	-23.88	Horizontal
9848.000	37.15	12.63	36.03	39.80	53.55	74	-20.45	Horizontal
12639.790	37.92	14.55	37.79	37.79	52.47	74	-21.53	Horizontal

Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3995.234	33.10	7.81	38.56	47.71	50.06	74	-23.94	Vertical
4844.000	34.14	8.92	38.76	45.82	50.12	74	-23.88	Vertical
6104.642	34.75	10.42	38.82	45.66	52.01	74	-21.99	Vertical
7266.000	35.57	10.70	37.61	42.34	51.00	74	-23.00	Vertical
9688.000	37.10	12.54	36.24	37.16	50.56	74	-23.44	Vertical
12639.790	37.92	14.55	37.79	38.77	53.45	74	-20.55	Vertical
3803.444	32.90	7.74	38.49	46.36	48.51	74	-25.49	Horizontal
4844.000	34.14	8.92	38.76	46.15	50.45	74	-23.55	Horizontal
6016.949	34.71	10.54	38.94	45.64	51.95	74	-22.05	Horizontal
7266.000	35.57	10.70	37.61	41.07	49.73	74	-24.27	Horizontal
9688.000	37.10	12.54	36.24	36.43	49.83	74	-24.17	Horizontal
12603.270	37.90	14.44	37.75	39.10	53.69	74	-20.31	Horizontal

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Test mode:	802.11n(HT40)	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	45.95	47.99	74	-26.01	Vertical
4874.000	34.17	8.97	38.76	46.27	50.65	74	-23.35	Vertical
6140.076	34.77	10.38	38.78	45.56	51.93	74	-22.07	Vertical
7311.000	35.54	10.72	37.59	41.61	50.28	74	-23.72	Vertical
9748.000	37.10	12.58	36.16	38.98	52.50	74	-21.50	Vertical
12639.790	37.92	14.55	37.79	37.75	52.43	74	-21.57	Vertical
3792.453	32.87	7.74	38.48	45.38	47.51	74	-26.49	Horizontal
4874.000	34.17	8.97	38.76	46.24	50.62	74	-23.38	Horizontal
6122.333	34.76	10.40	38.80	45.26	51.62	74	-22.38	Horizontal
7311.000	35.54	10.72	37.59	41.59	50.26	74	-23.74	Horizontal
9748.000	37.10	12.58	36.16	39.34	52.86	74	-21.14	Horizontal
12603.270	37.90	14.44	37.75	38.60	53.19	74	-20.81	Horizontal

Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak
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Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	48.97	51.01	74	-22.99	Vertical
4904.000	34.21	9.01	38.77	46.07	50.52	74	-23.48	Vertical
6104.642	34.75	10.42	38.82	45.47	51.82	74	-22.18	Vertical
7356.000	35.52	10.74	37.57	41.30	49.99	74	-24.01	Vertical
9808.000	37.11	12.61	36.08	39.40	53.04	74	-20.96	Vertical
12639.790	37.92	14.55	37.79	37.52	52.20	74	-21.80	Vertical
3814.467	32.91	7.75	38.49	44.73	46.90	74	-27.10	Horizontal
4904.000	34.21	9.01	38.77	46.42	50.87	74	-23.13	Horizontal
6034.386	34.72	10.52	38.91	45.90	52.23	74	-21.77	Horizontal
7356.000	35.52	10.74	37.57	42.52	51.21	74	-22.79	Horizontal
9808.000	37.11	12.61	36.08	39.85	53.49	74	-20.51	Horizontal
12603.270	37.90	14.44	37.75	38.42	53.01	74	-20.99	Horizontal

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Remark:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2013, section 6.10.5		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
74.0		Peak Value	
Test Setup:			

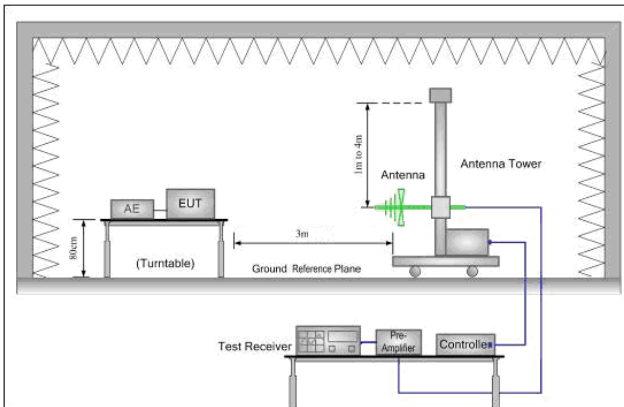


Figure 1. 30MHz to 1GHz

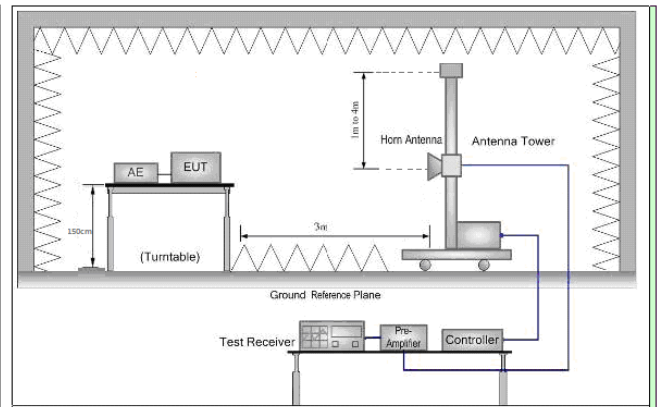


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. Repeat above procedures until all frequencies measured was complete.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

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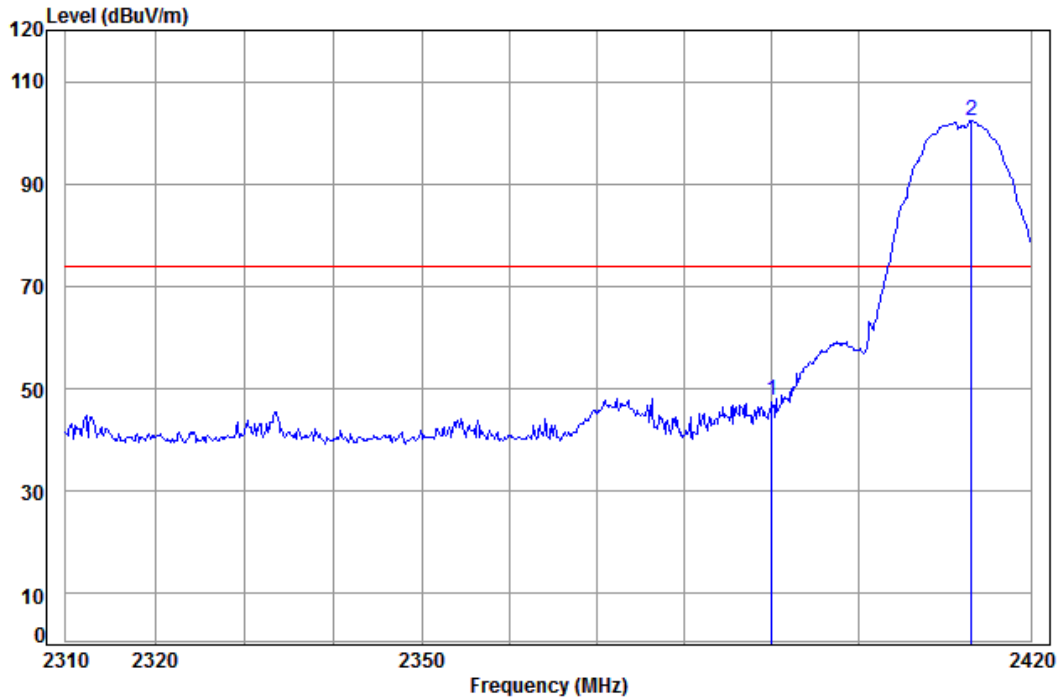
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Test plot as follows:

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2412 Band edge
 : B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	51.91	47.71	74.00	-26.29
2 pp	2413.14	5.36	28.66	38.11	106.43	102.34	74.00	28.34

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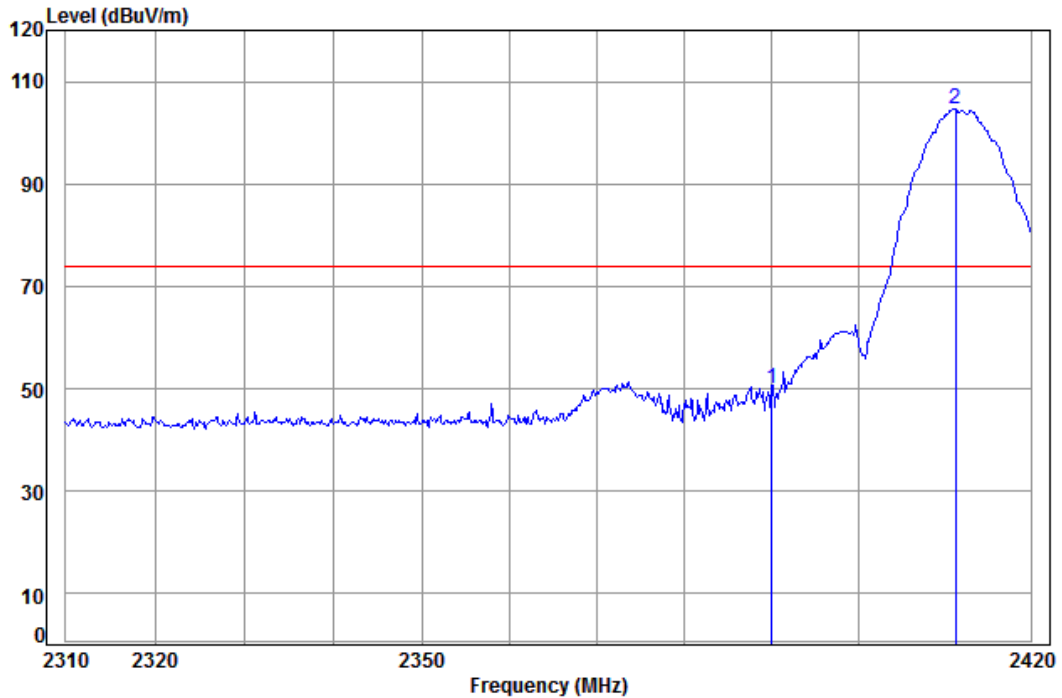


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Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2412 Band edge
 : B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	54.08	49.88	74.00	-24.12
2 pp	2411.24	5.35	28.65	38.11	108.88	104.77	74.00	30.77

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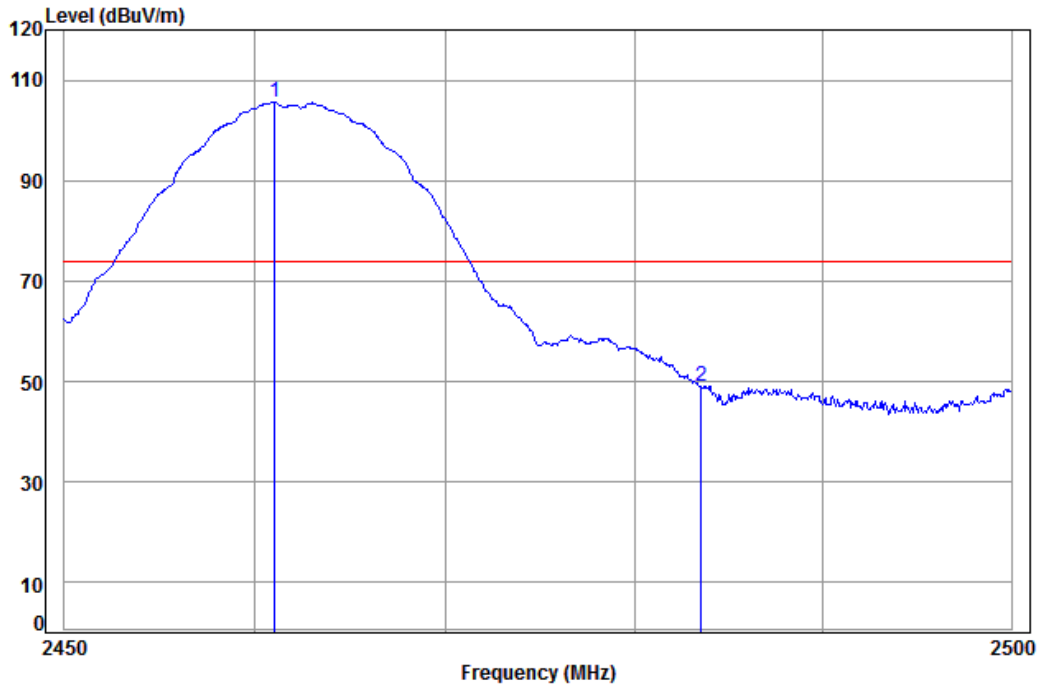


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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2461.01	5.39	28.88	38.12	109.48	105.63	74.00	31.63
2	2483.50	5.41	28.98	38.12	52.88	49.15	74.00	-24.85

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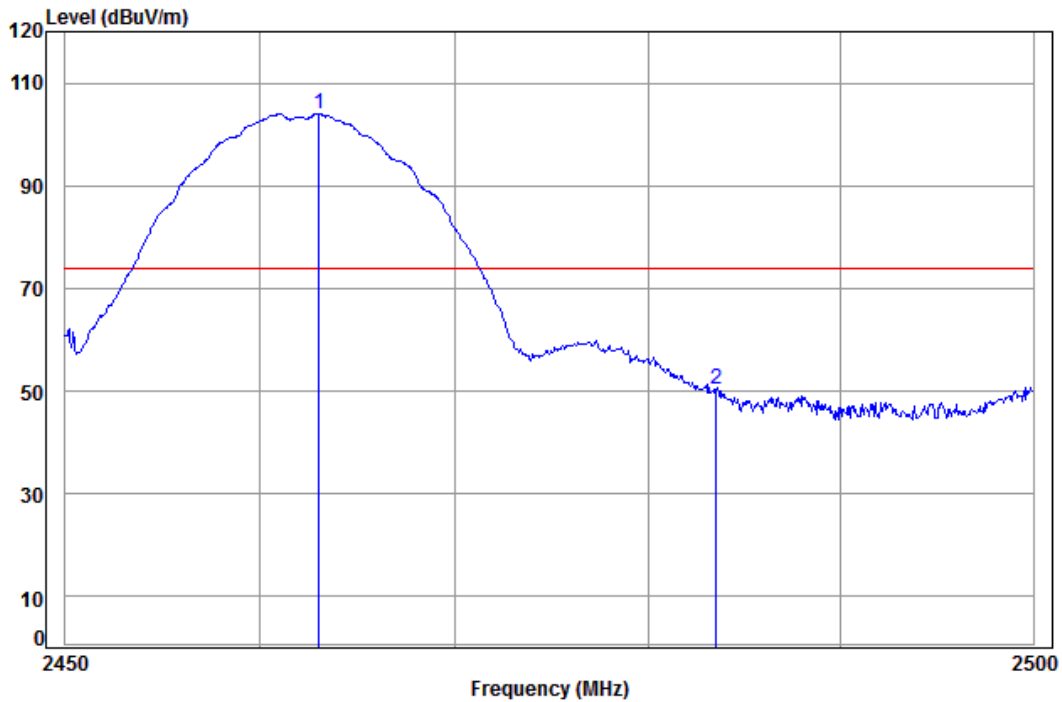


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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2463.00	5.39	28.89	38.12	107.92	104.08	74.00	30.08
2	2483.50	5.41	28.98	38.12	54.21	50.48	74.00	-23.52

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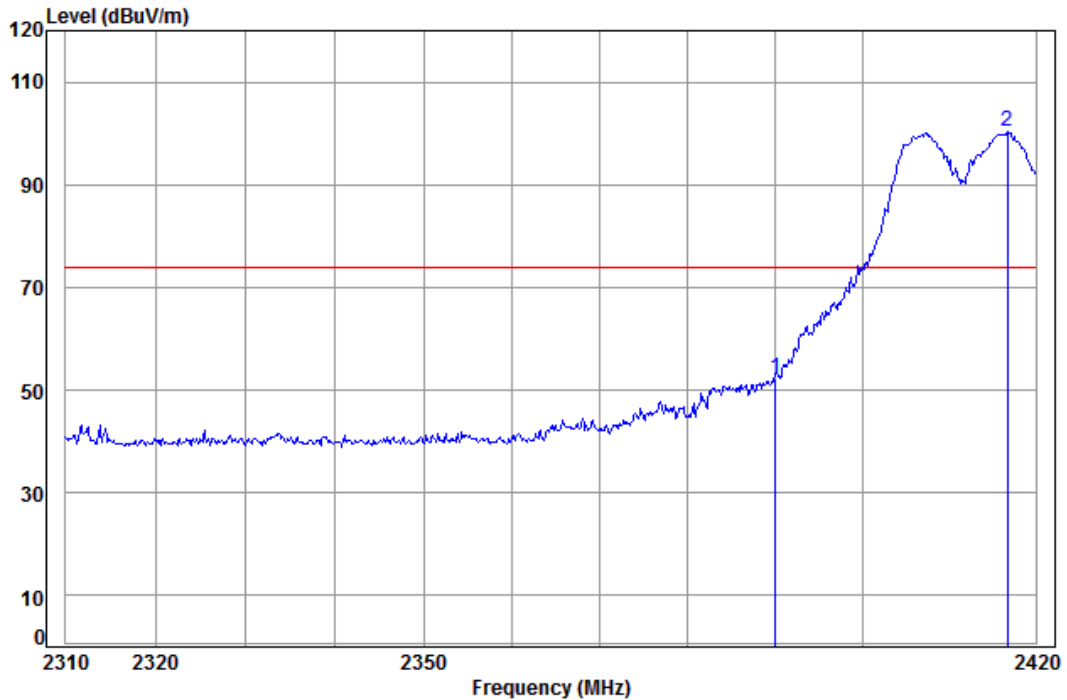


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2412 Band edge
 : G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	56.36	52.16	74.00	-21.84
2 pp	2416.74	5.36	28.68	38.11	104.56	100.49	74.00	26.49

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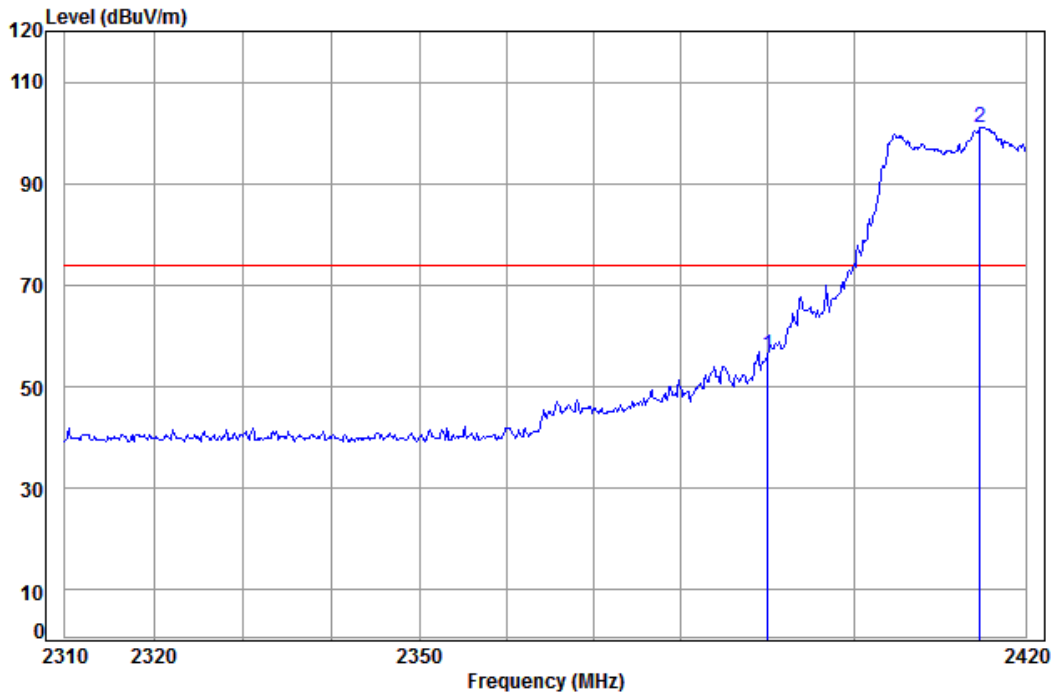


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2412 Band edge
 : G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	60.59	56.39	74.00 -17.61
2 pp	2414.72	5.36	28.67	38.11	105.27	101.19	74.00 27.19

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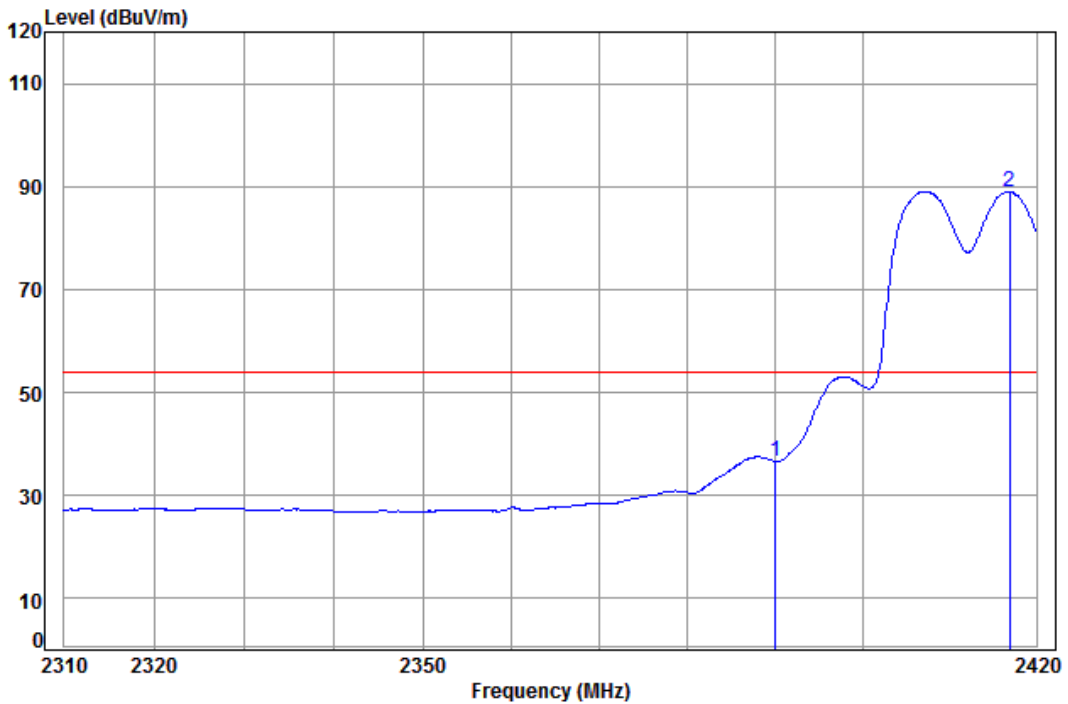


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
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Condition: 3m Vertical
Job No: : 0511IT
Mode: : 2412 Band edge
: G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	40.77	36.57	54.00	-17.43
2 pp	2416.96	5.36	28.68	38.11	93.13	89.06	54.00	35.06

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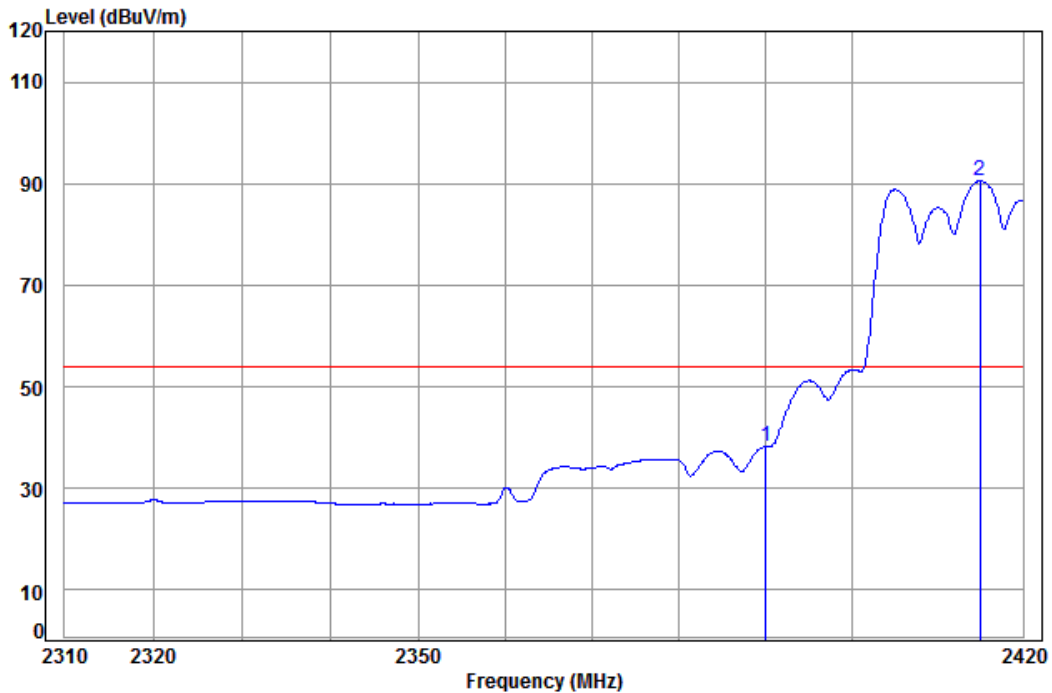


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2412 Band edge
 : G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	42.39	54.00	-15.81
2 pp	2414.94	5.36	28.67	38.11	94.58	54.00	36.50

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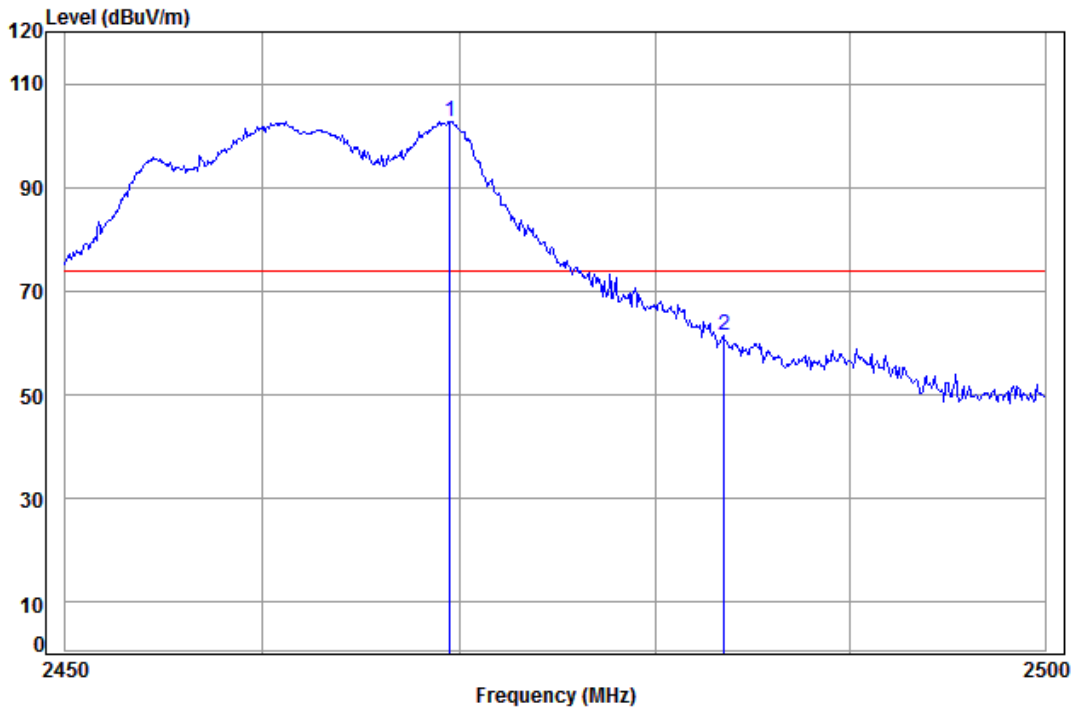


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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2469.53	5.40	28.92	38.12	106.55	74.00	28.75
2	2483.50	5.41	28.98	38.12	65.13	74.00	-12.60

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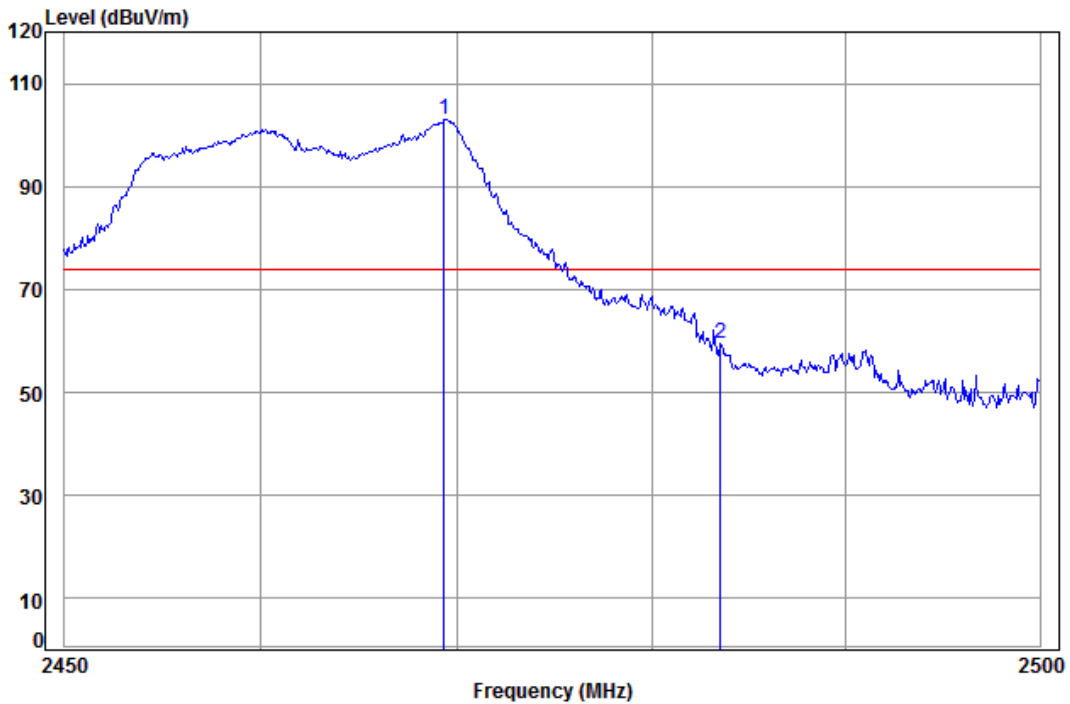


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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2469.33	5.40	28.92	38.12	106.83	103.03	29.03
2	2483.50	5.41	28.98	38.12	63.14	59.41	-14.59

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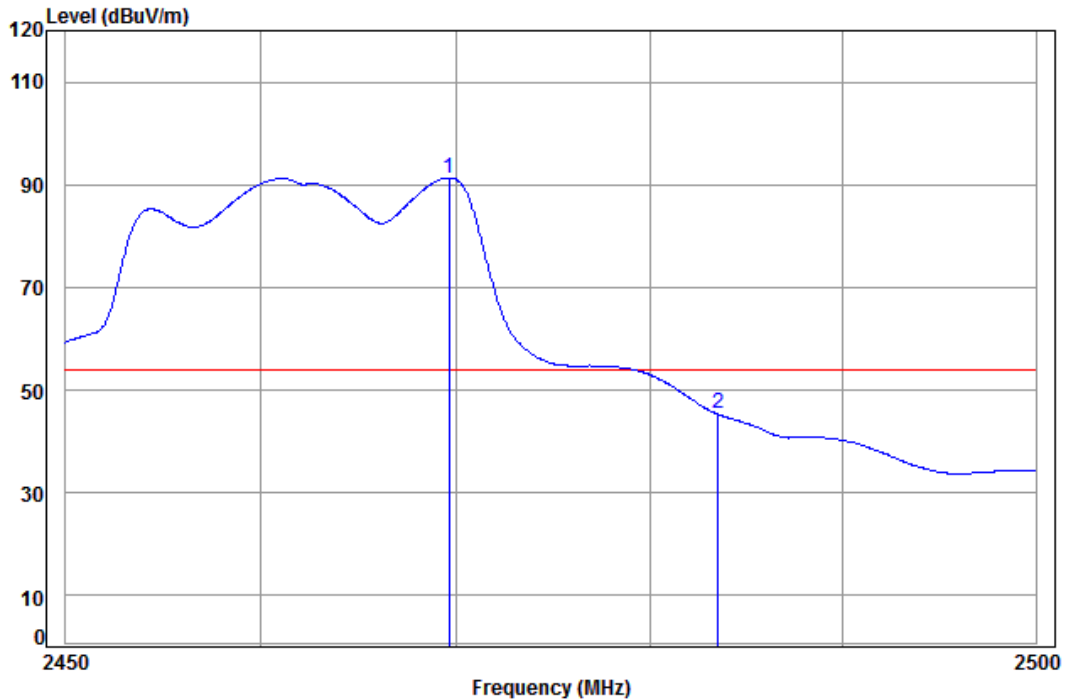


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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2469.63	5.40	28.92	38.12	95.18	91.38	54.00	37.38
2	2483.50	5.41	28.98	38.12	49.09	45.36	54.00	-8.64

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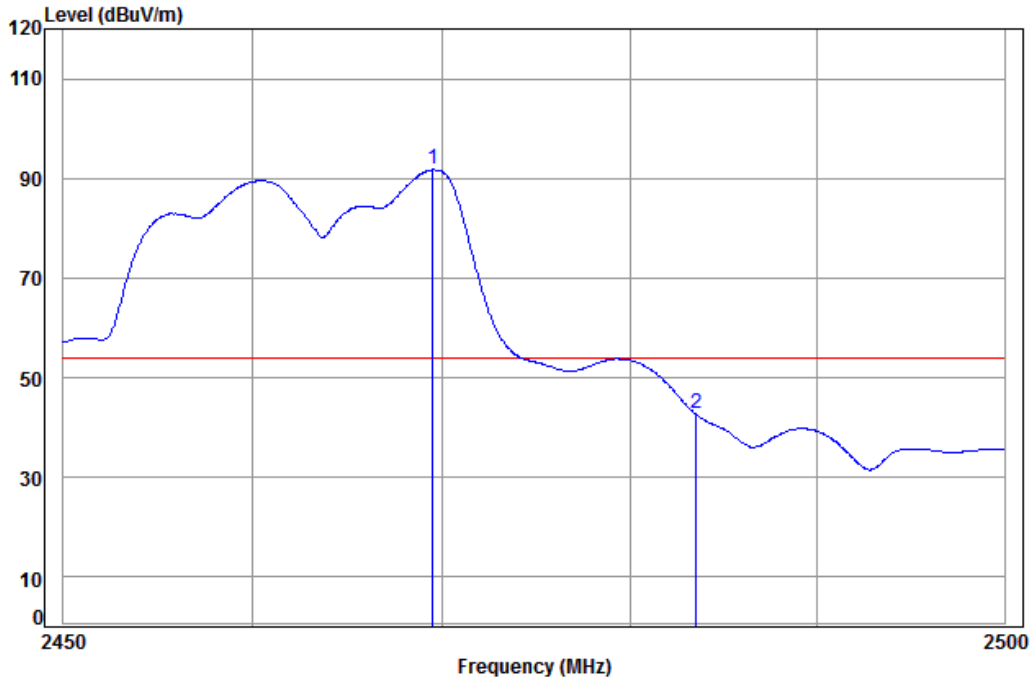


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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2469.53	5.40	28.92	38.12	95.53	91.73	54.00	37.73
2	2483.50	5.41	28.98	38.12	46.44	42.71	54.00	-11.29

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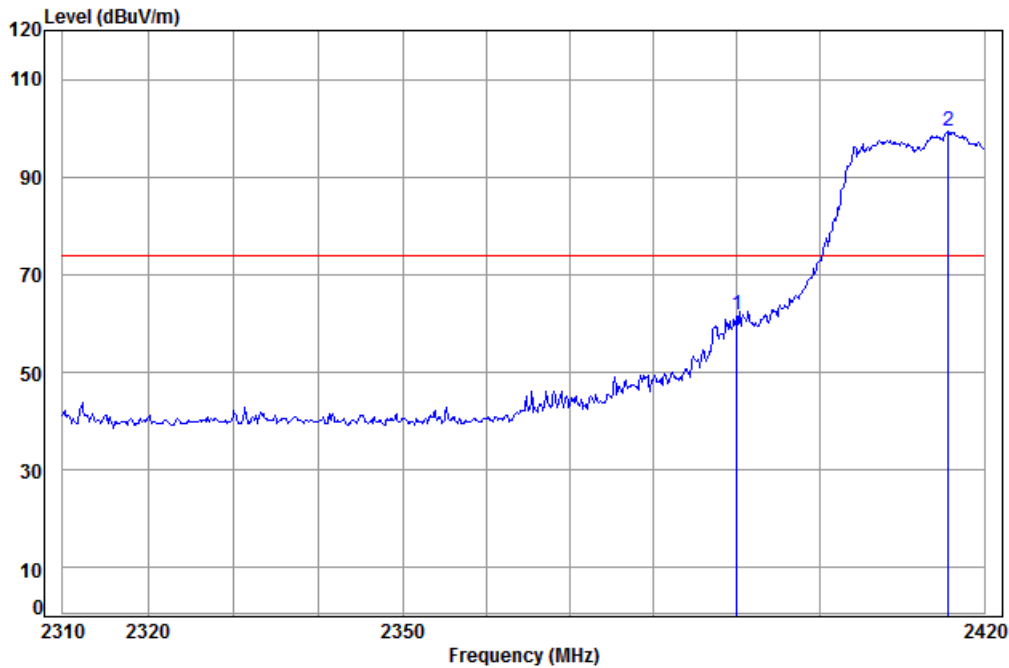


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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 0511IT

Mode: : 2412 Band edge

: N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.00	5.34	28.57	38.11	66.10	61.90	74.00	-12.10
2 pp	2415.61	5.36	28.67	38.11	103.32	99.24	74.00	25.24

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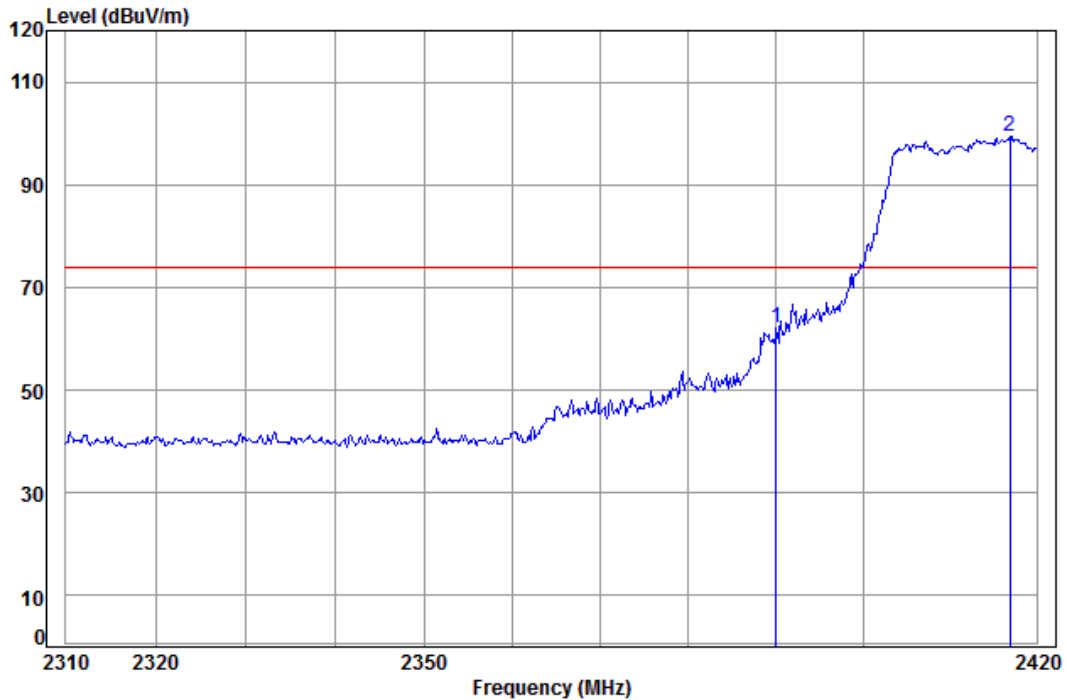


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Report No.: HKES160300051102

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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2412 Band edge
 : N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	66.32	62.12	74.00	-11.88
2 pp	2416.96	5.36	28.68	38.11	103.51	99.44	74.00	25.44

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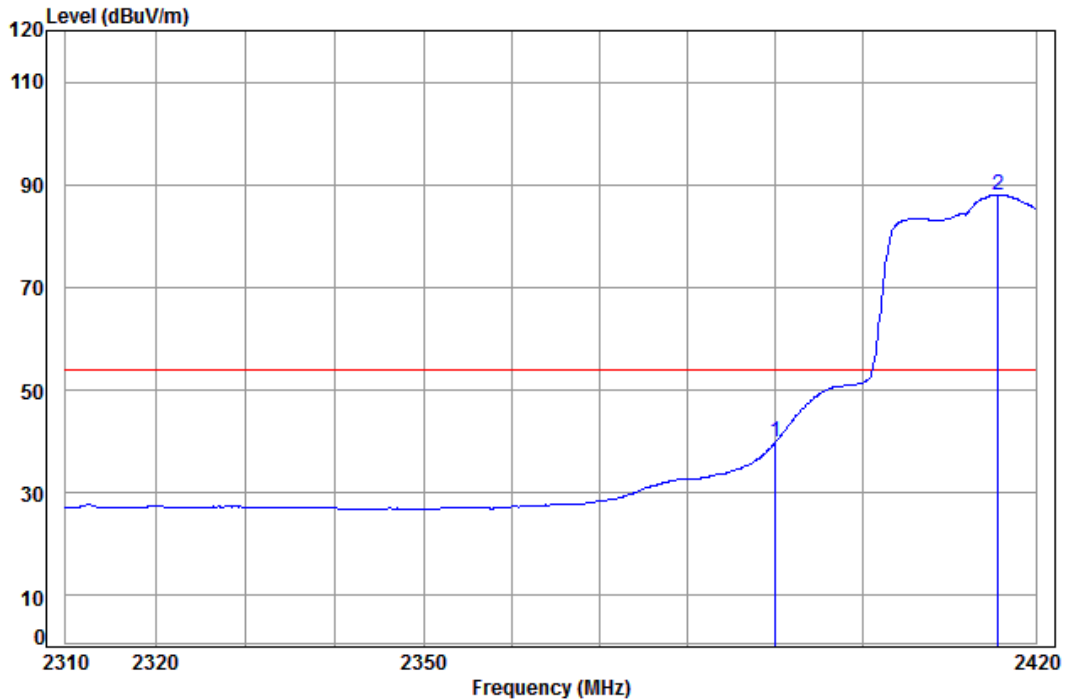


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
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Condition: 3m Vertical

Job No: : 0511IT

Mode: : 2412 Band edge

: N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	44.18	39.98	54.00	-14.02
2 pp	2415.61	5.36	28.67	38.11	92.12	88.04	54.00	34.04

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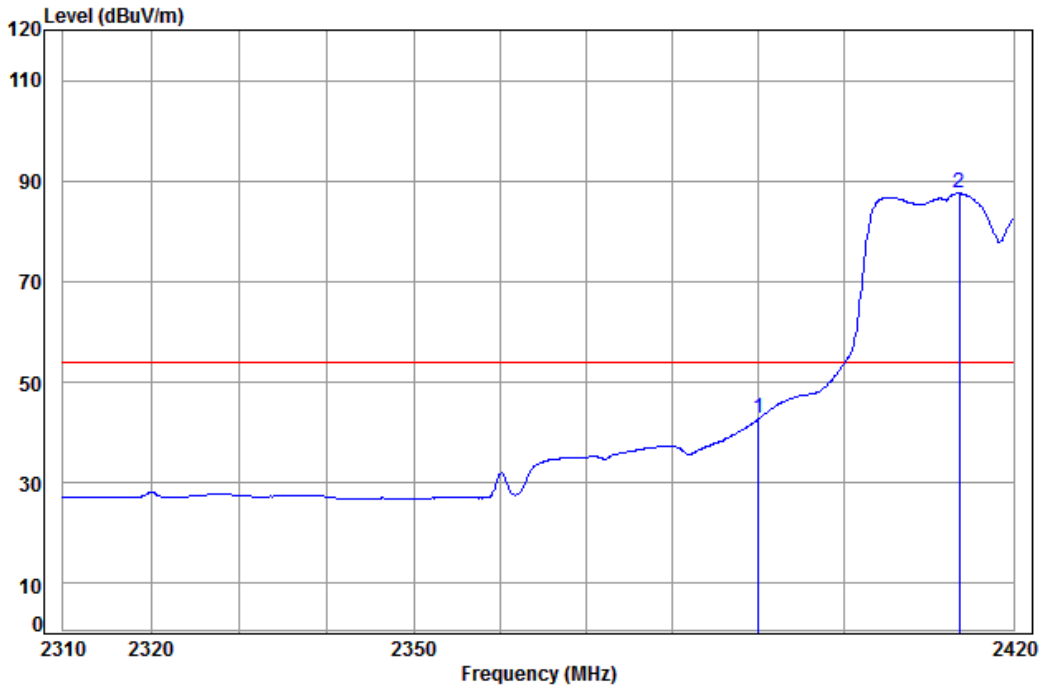


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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2412 Band edge
 : N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	46.99	42.79	54.00	-11.21
2 pp	2413.59	5.36	28.66	38.11	91.62	87.53	54.00	33.53

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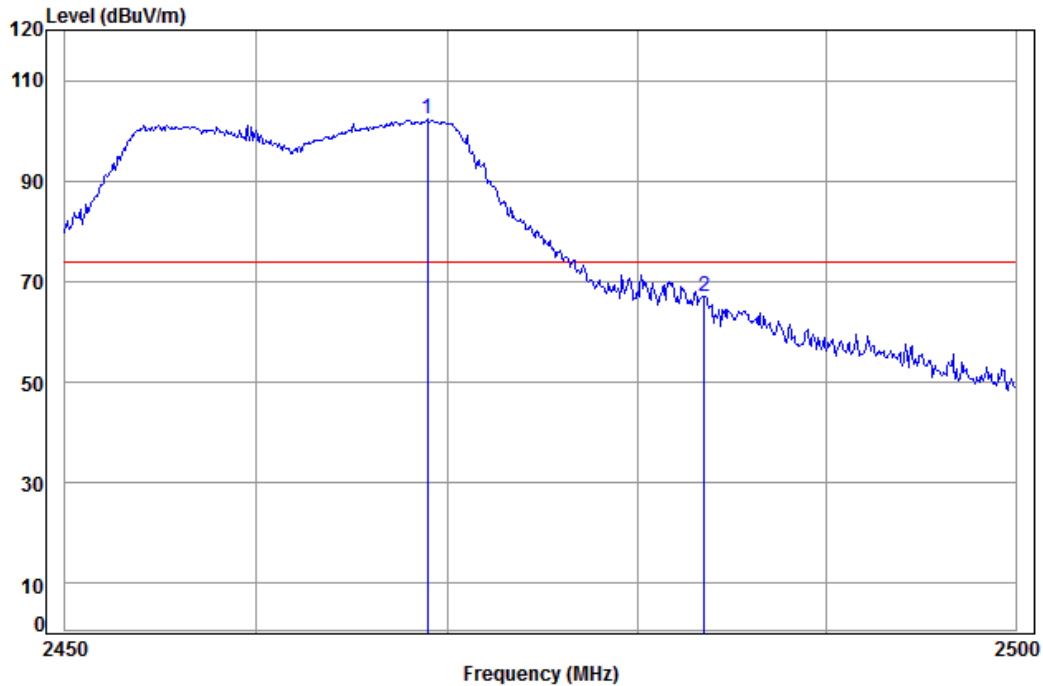


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2468.93	5.40	28.92	38.12	106.01	102.21	74.00	28.21
2	2483.50	5.41	28.98	38.12	70.67	66.94	74.00	-7.06

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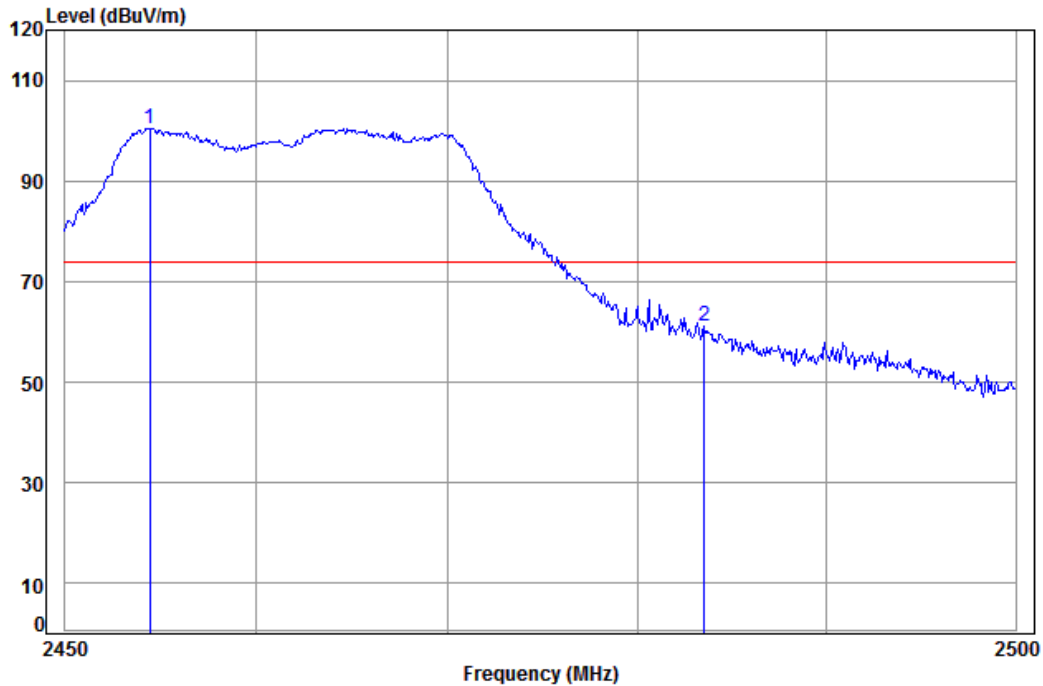


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.41	5.39	28.85	38.12	104.38	100.50	74.00	26.50
2	2483.50	5.41	28.98	38.12	65.02	61.29	74.00	-12.71

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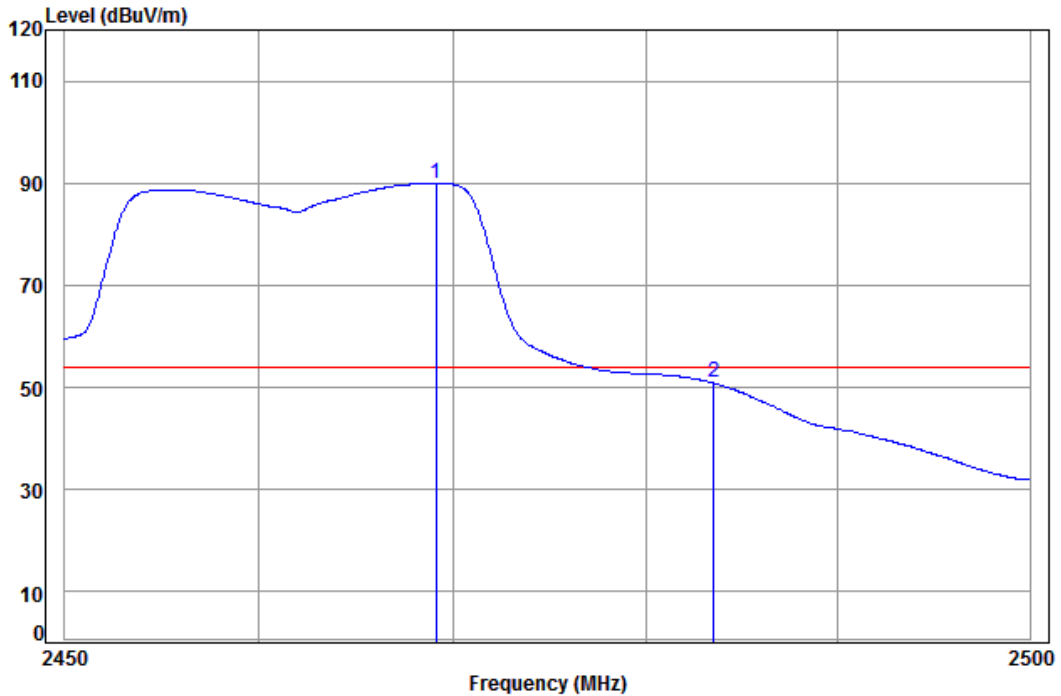


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
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Condition: 3m Vertical

Job No: : 0511IT

Mode: : 2462 Band edge

: N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2469.13	5.40	28.92	38.12	93.80	90.00	54.00	36.00
2	2483.50	5.41	28.98	38.12	54.63	50.90	54.00	-3.10

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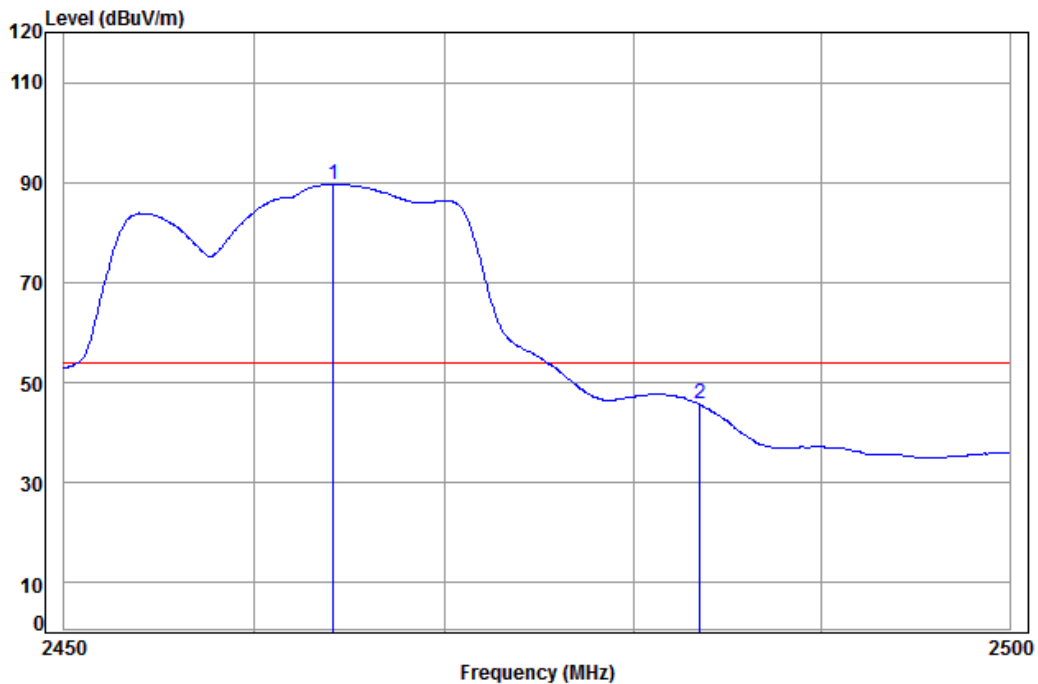


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2462 Band edge
 : N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2464.15	5.39	28.90	38.12	93.42	89.59	54.00	35.59
2	2483.50	5.41	28.98	38.12	49.44	45.71	54.00	-8.29

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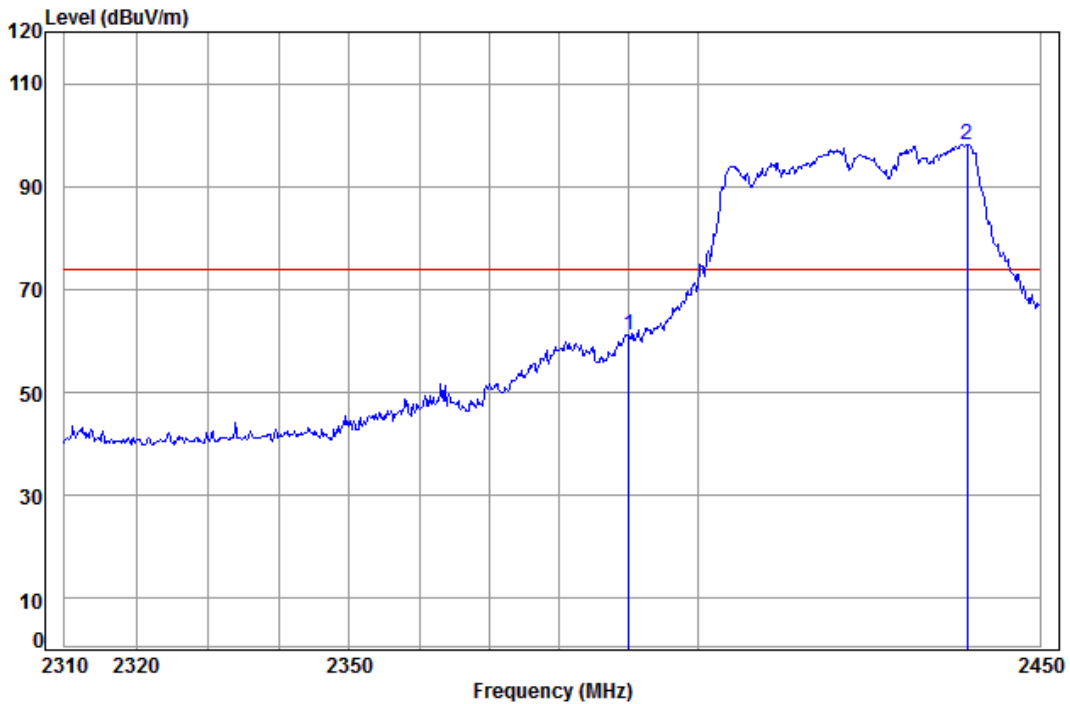


**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: HKES160300051102

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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical
Job No: : 0511IT
Mode: : 2422 Band edge
: N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	65.35	74.00	-12.85
2 pp	2439.36	5.37	28.78	38.11	102.15	74.00	24.19

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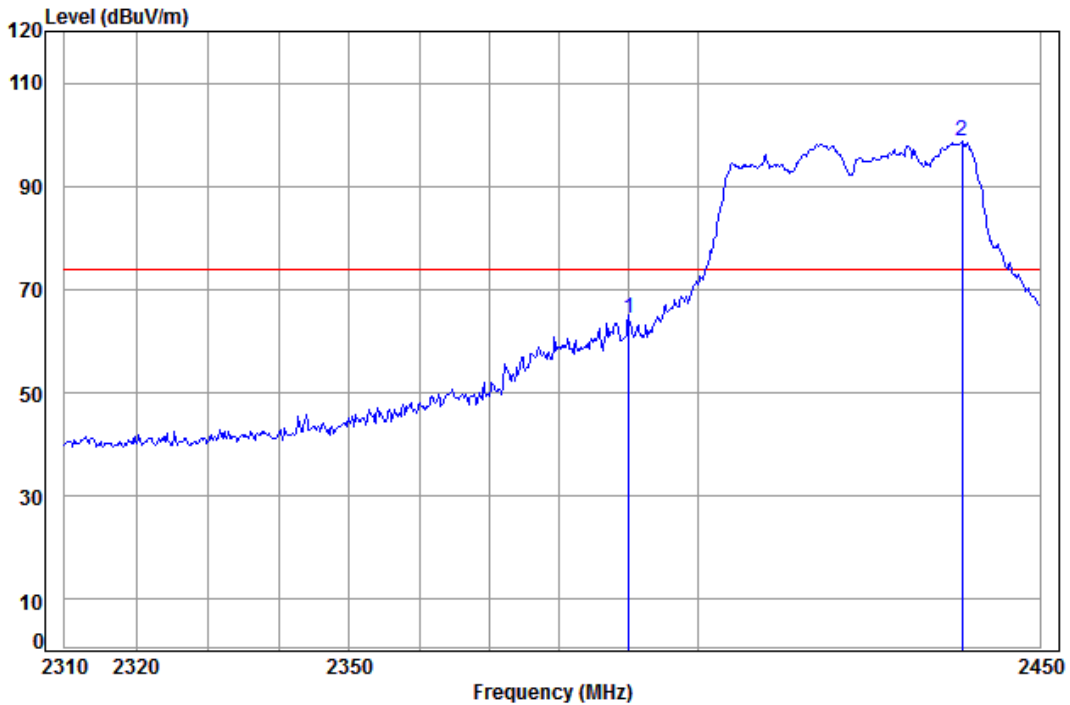


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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal

Job No: : 0511IT

Mode: : 2422 Band edge

: N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	68.49	74.00	-9.71
2 pp	2438.49	5.37	28.78	38.11	102.60	74.00	24.64

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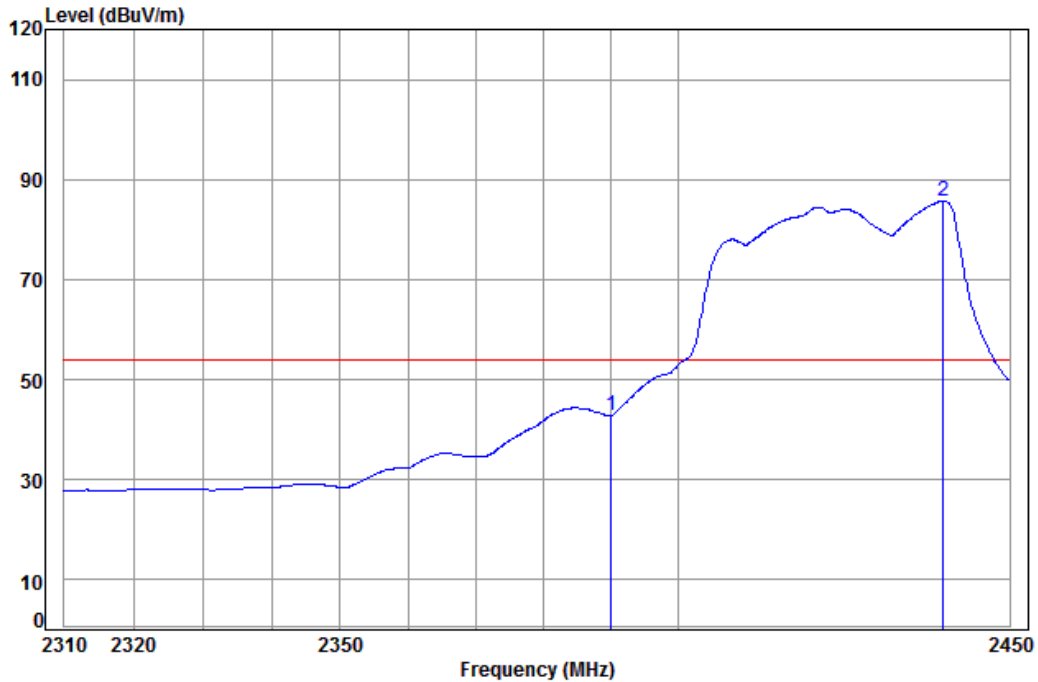


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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2422 Band edge
 : N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	47.04	42.84	54.00	-11.16
2 pp	2439.93	5.38	28.79	38.11	89.62	85.68	54.00	31.68

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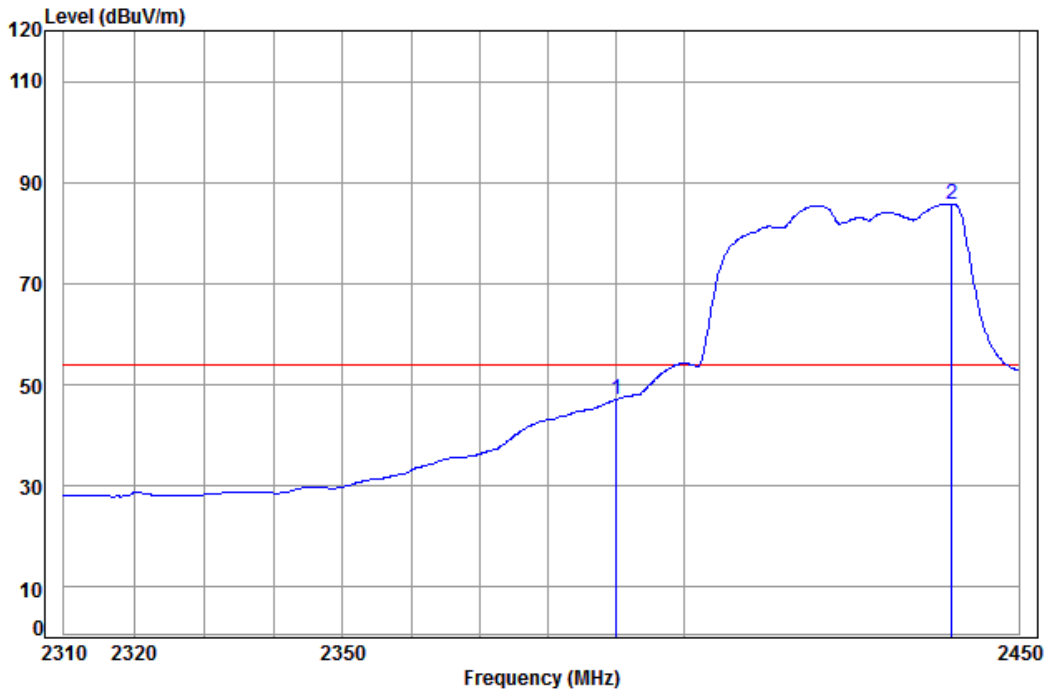


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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2422 Band edge
 : N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	5.34	28.57	38.11	51.38	47.18	54.00	-6.82
2 pp	2439.93	5.38	28.79	38.11	89.72	85.78	54.00	31.78

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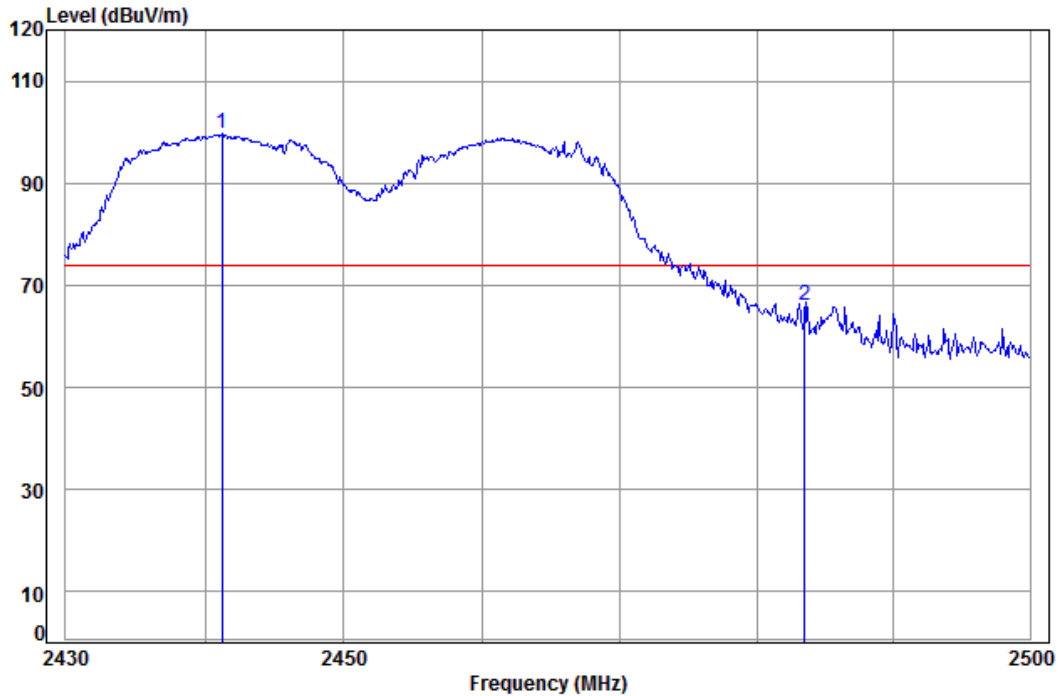


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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 0511IT

Mode: : 2452 Band edge

: N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2441.21	5.38	28.79	38.11	103.59	99.65	74.00	25.65
2	2483.50	5.41	28.98	38.12	69.63	65.90	74.00	-8.10

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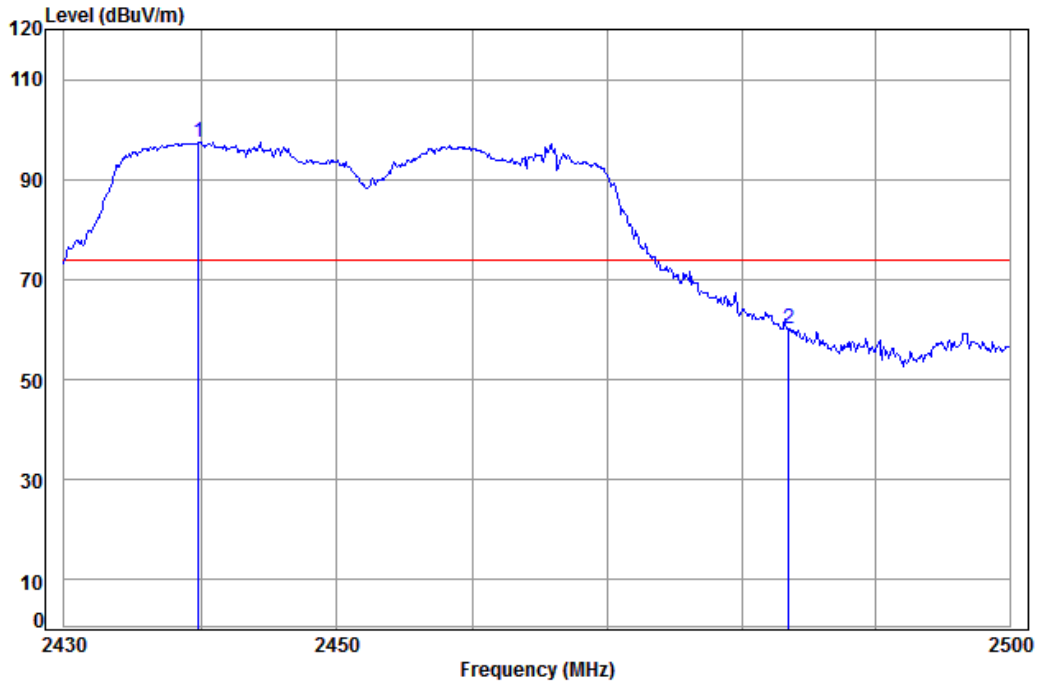


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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2452 Band edge
 : N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2439.82	5.38	28.79	38.11	101.36	97.42	74.00	23.42
2	2483.50	5.41	28.98	38.12	63.82	60.09	74.00	-13.91

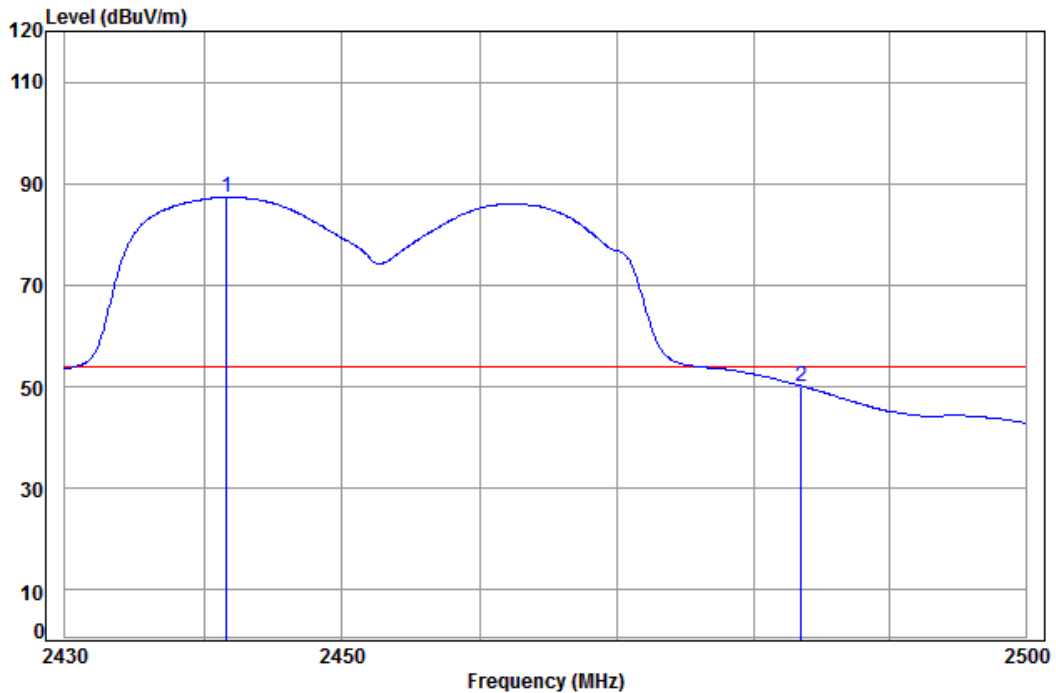
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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Vertical
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Condition: 3m Vertical
 Job No: : 0511IT
 Mode: : 2452 Band edge
 : N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1 pp	2441.62	5.38	28.79	38.11	91.26	87.32	54.00	33.32
2	2483.50	5.41	28.98	38.12	53.91	50.18	54.00	-3.82

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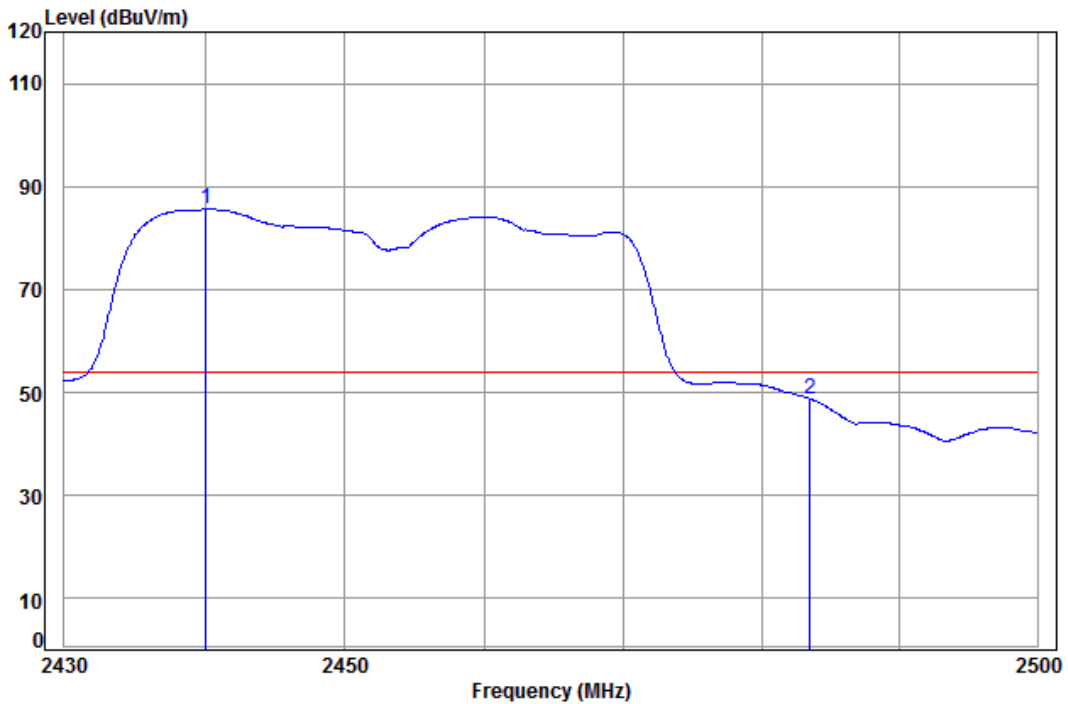


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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
------------------	---------------	---------------	---------	---------	---------	------------



Condition: 3m Horizontal
 Job No: : 0511IT
 Mode: : 2452 Band edge
 : N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2440.10	5.38	28.79	38.11	89.48	54.00	31.54
2	2483.50	5.41	28.98	38.12	52.49	54.00	-5.24

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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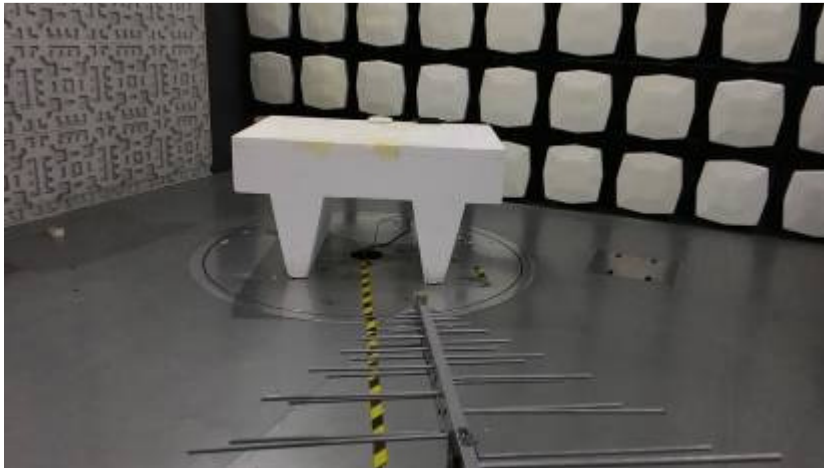
7 Photographs - EUT Test Setup

Test model No.: AP One Enterprise,

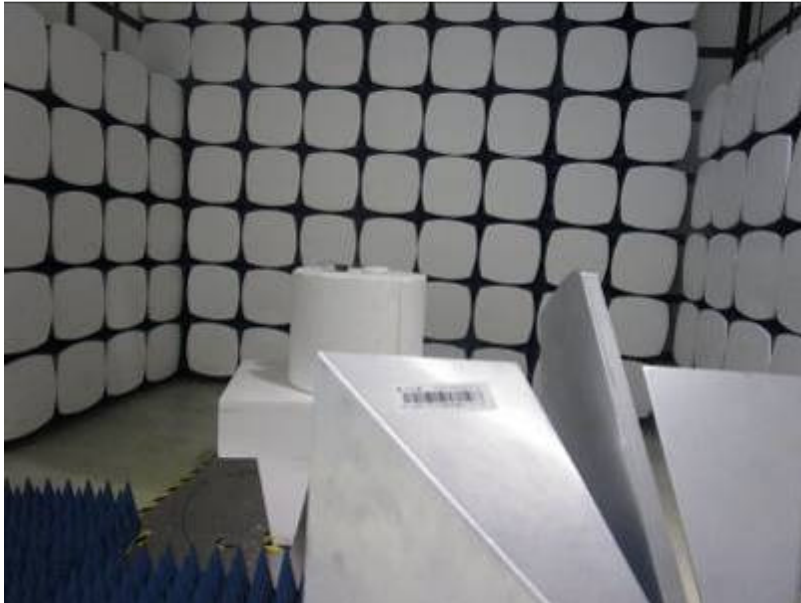
7.1 Conducted Emission



7.2 Radiated Emission



7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for HKES1603000511IT.