

TEST REPORT

Reference No...... : WTX21X08081529W-2
FCC ID : 2A24ZWR525G
Applicant : Shenzhen Ceres Technology Co., Ltd.
Address..... : Room 601, Floor 6, Building F, Songbai Road 1008, Sunshine Community,
Xili Street, Nanshan District, Shenzhen
Product Name : Wireless Router
Test Model. : WR525G
Standards : FCC Part 15.247
Date of Receipt sample : Aug. 10, 2021
Date of Test..... : Aug. 10, 2021 to Sept. 13, 2021
Date of Issue : Sept. 13, 2021
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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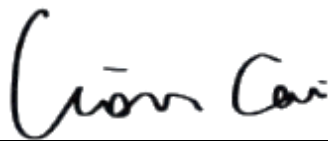
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Report version

Version No.	Date of issue	Description
Rev.00	Sept. 13, 2021	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Shenzhen Ceres Technology Co., Ltd.
 Address of applicant: Room 601, Floor 6, Building F, Songbai Road 1008, Sunshine Community, Xili Street, Nanshan District, Shenzhen

Manufacturer: Shenzhen C-DATA Technology Co.,Ltd Baoan Branch
 Address of manufacturer: F11, Bldg B, Wentao Industrial zone, Yingrenshiyongxin Village, Shiyao Street, Baoan district, Shenzhen,Guangdong, China

General Description of EUT	
Product Name:	Wireless Router
Trade Name:	/
Model No.:	WR525G
Adding Model(s):	/
Rated Voltage:	DC12V
Power Adapter 1:	MODEL:Model:DCT12W120100US-A0 INPUT: AC100-240~50/60Hz, 0.3A max. OUTPUT:DC12V, 1.0A
Power Adapter 2:	MODEL:Model:TS-A012-120010AW INPUT:AC100-240~50/60Hz, 0.4A OUTPUT:DC12V, 1.0A
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n, 802.11ax
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20)/ax(HE20) 2422-2452MHz for 802.11n(HT40) /ax(HE40)
RF Output Power:	Antenna 1:15.37dBm (Conducted) Antenna 2:15.33dBm (Conducted)
Type of Modulation:	DBPSK,BPSK,DQPSK,QPSK,16QAM,64QAM, 256QAM, 1024QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20)/ AX(HE20) 7 for 802.11n(HT40)/ AX(HE40)
Channel Separation:	5MHz
Type of Antenna:	External Antenna
Antenna Gain:	6.68dBi

1.2 Test Standards

The tests were performed according to following standards:

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

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the Fcc rules.

662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11ax-HE20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM5	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz
TM6	802.11ax-HE40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	1.2	Unshielded	Without Ferrite
RJ45 Cable	1.0	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2021-03-27	2022-03-26
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2021-03-27	2022-03-26
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2021-03-27	2022-03-26
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2021-03-27	2022-03-26
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2021-03-27	2022-03-26
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2021-03-27	2022-03-26
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2021-03-27	2022-03-26
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2021-03-27	2022-03-26
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2021-03-27	2022-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2021-03-27	2022-03-26
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2021-04-12	2022-04-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2021-04-12	2022-04-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-19	2023-03-18
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-19	2023-03-18
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2021-04-27	2022-04-26
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2021-03-27	2022-03-26
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2021-03-27	2022-03-26
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2021-03-19	2023-03-18
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

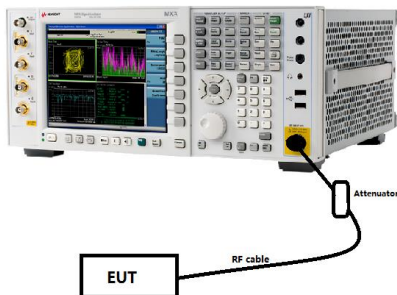
This product has two External antennas, fulfill the requirement of this section. And the signals at the antennas are completely uncorrelated.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- d) Set VBW $\geq 3 \times \text{RBW}$.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

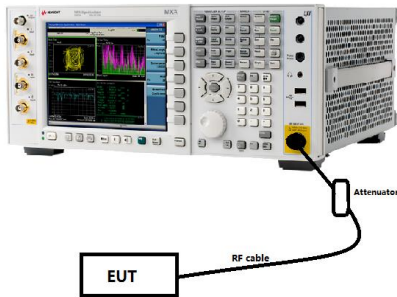
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

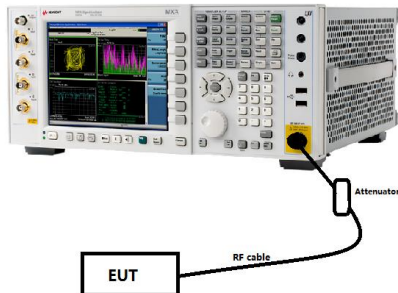
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2013 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

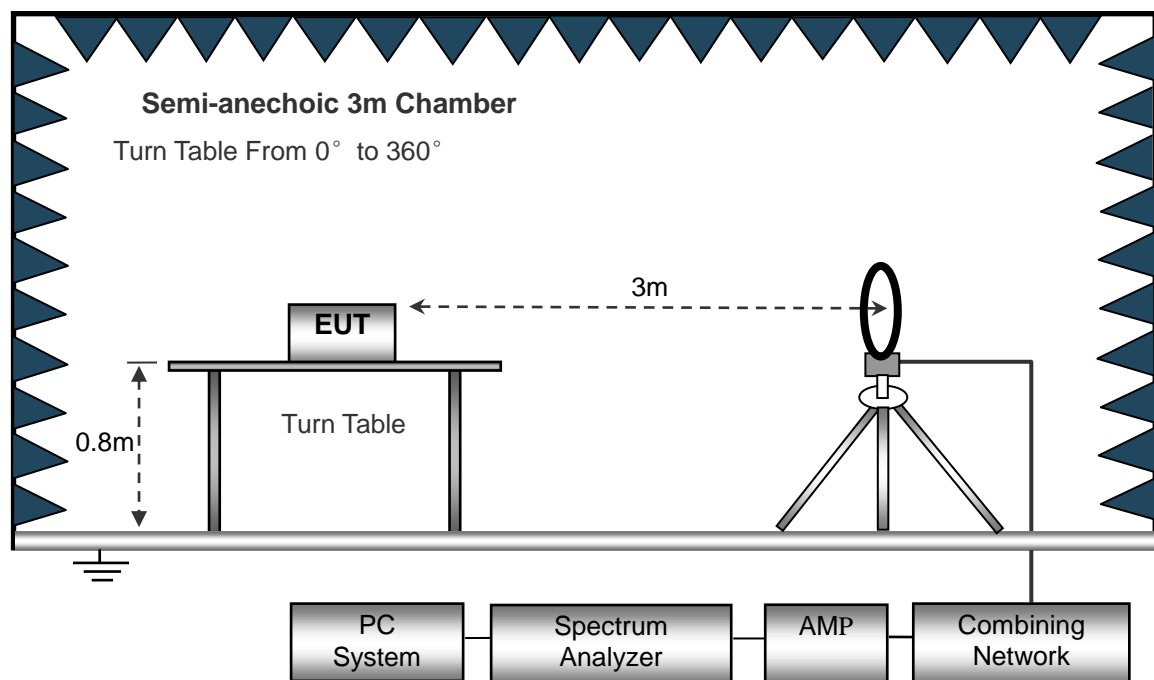
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

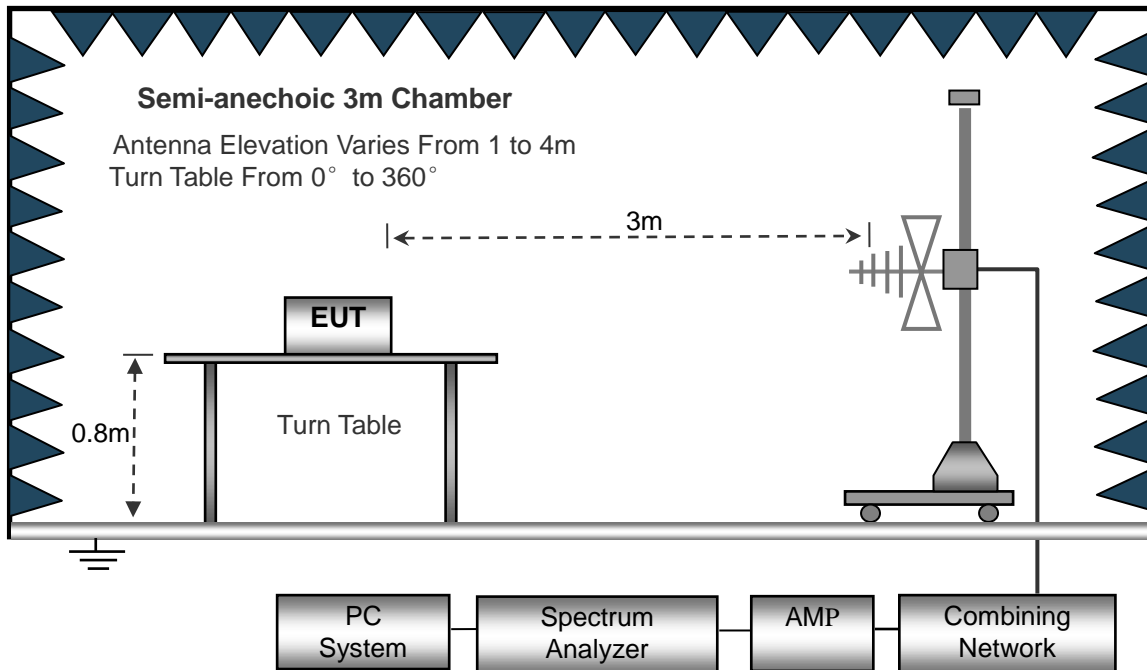
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

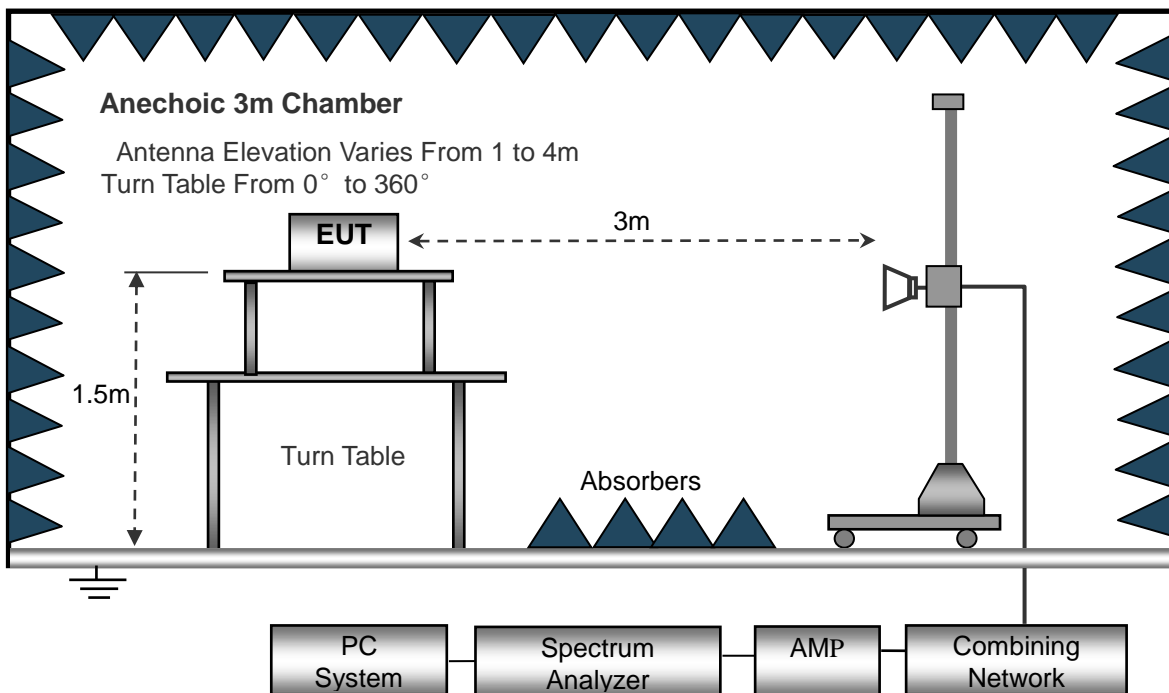
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

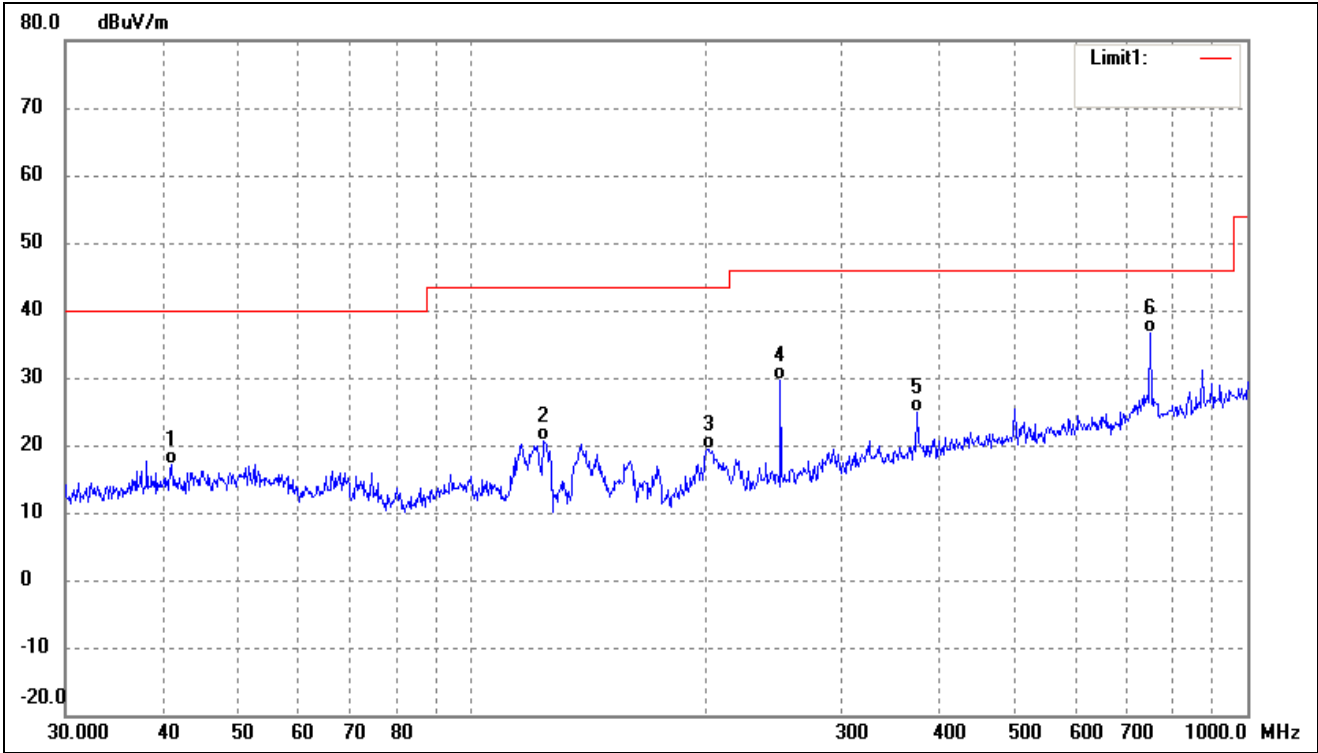
7.4 Summary of Test Results/Plots

Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_11Mbps) is recorded in this report.

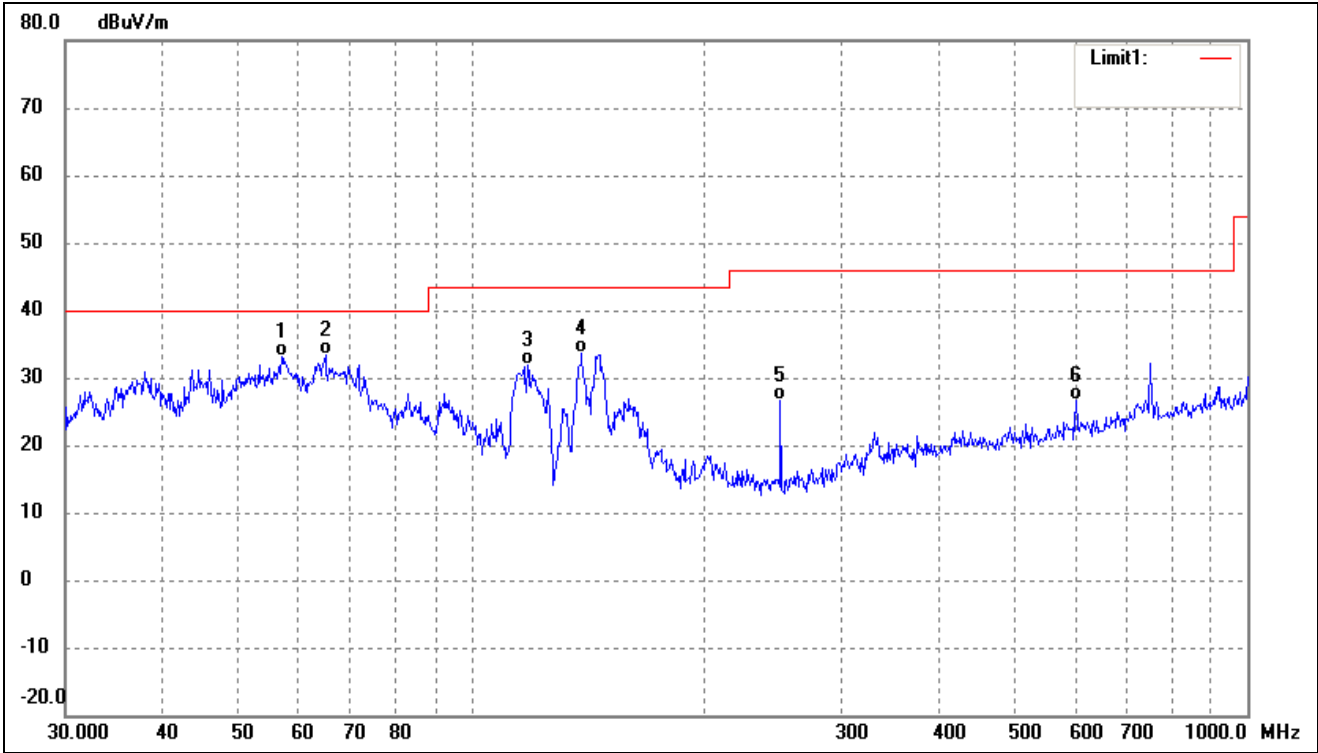
- Spurious Emissions Below 1GHz
- Worst case Antenna 1

802.11b_11Mbps (worst case)			
Test Channel	Low	Polarity:	Horizontal



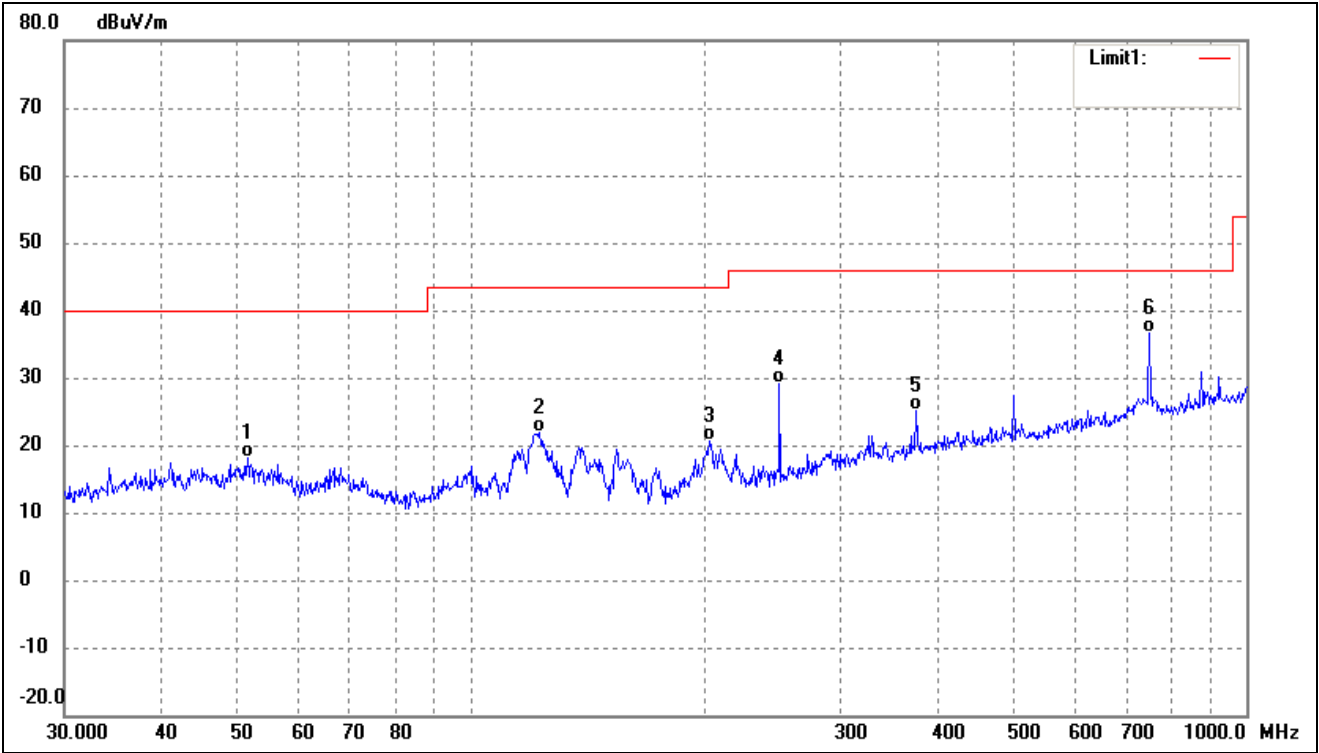
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.1320	28.03	-10.91	17.12	40.00	-22.88	-	-	QP
2	123.6985	34.91	-14.26	20.65	43.50	-22.85	-	-	QP
3	202.8104	31.73	-12.32	19.41	43.50	-24.09	-	-	QP
4	250.3012	40.52	-10.88	29.64	46.00	-16.36	-	-	QP
5	374.6226	31.86	-6.98	24.88	46.00	-21.12	-	-	QP
6	750.1083	38.89	-2.14	36.75	46.00	-9.25	-	-	QP

802.11b_11Mbps (worst case)			
Test Channel	Low	Polarity:	Vertical



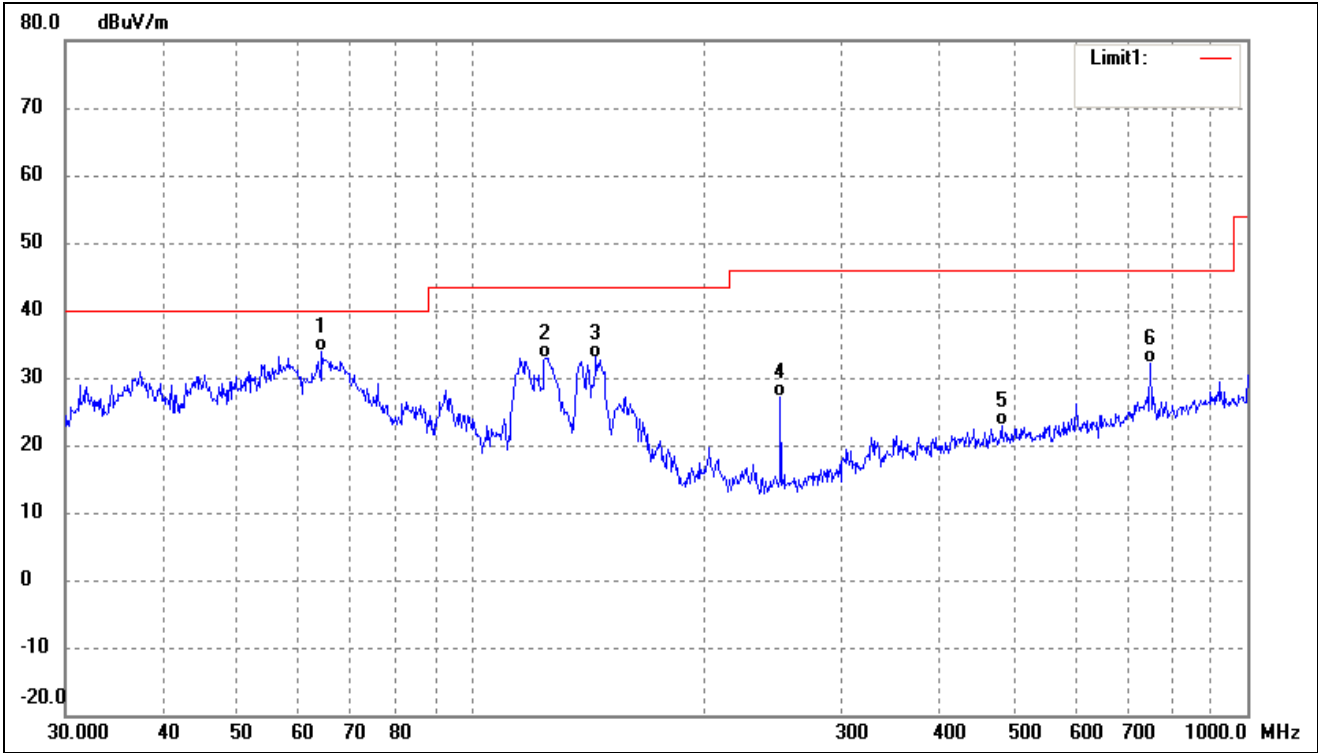
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	56.9912	45.47	-12.24	33.23	40.00	-6.77	-	-	QP
2	64.8865	47.23	-13.94	33.29	40.00	-6.71	-	-	QP
3	118.1862	45.59	-13.70	31.89	43.50	-11.61	-	-	QP
4	138.8735	48.66	-15.13	33.53	43.50	-9.97	-	-	QP
5	250.3012	37.51	-10.88	26.63	46.00	-19.37	-	-	QP
6	601.4265	30.47	-3.74	26.73	46.00	-19.27	-	-	QP

802.11b_11Mbps (worst case)			
Test Channel	Middle	Polarity:	Horizontal



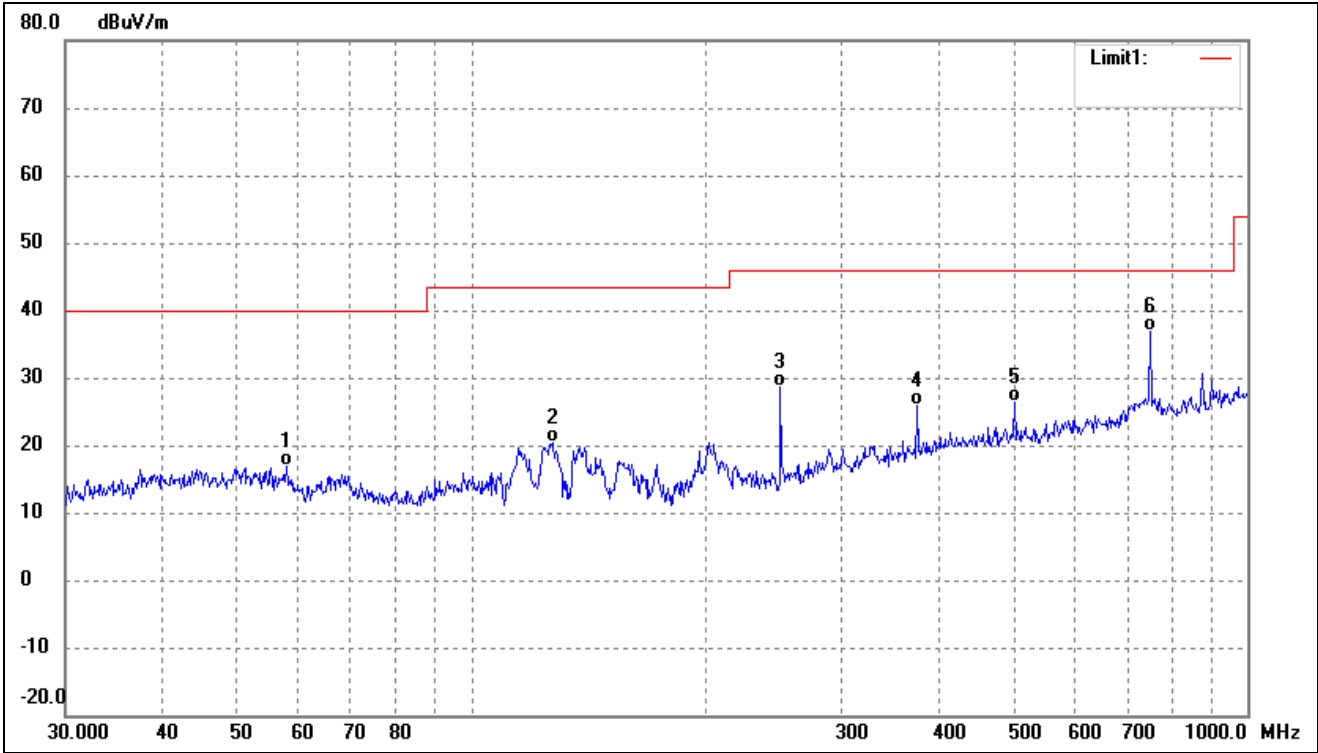
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.6616	29.25	-11.21	18.04	40.00	-21.96	-	-	QP
2	122.8340	36.17	-14.18	21.99	43.50	-21.51	-	-	QP
3	203.5228	32.92	-12.29	20.63	43.50	-22.87	-	-	QP
4	250.3012	39.90	-10.88	29.02	46.00	-16.98	-	-	QP
5	375.9385	32.15	-6.94	25.21	46.00	-20.79	-	-	QP
6	750.1083	38.82	-2.14	36.68	46.00	-9.32	-	-	QP

802.11b_11Mbps (worst case)			
Test Channel	Middle	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	64.2075	47.57	-13.79	33.78	40.00	-6.22	-	-	QP
2	124.5690	47.19	-14.33	32.86	43.50	-10.64	-	-	QP
3	144.8418	48.24	-15.24	33.00	43.50	-10.50	-	-	QP
4	250.3012	37.89	-10.88	27.01	46.00	-18.99	-	-	QP
5	482.2156	28.10	-5.21	22.89	46.00	-23.11	-	-	QP
6	750.1083	34.23	-2.14	32.09	46.00	-13.91	-	-	QP

802.11b_11Mbps (worst case)			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	57.7962	29.37	-12.40	16.97	40.00	-23.03	-	-	QP
2	127.2176	35.00	-14.56	20.44	43.50	-23.06	-	-	QP
3	250.3012	39.53	-10.88	28.65	46.00	-17.35	-	-	QP
4	375.9385	32.89	-6.94	25.95	46.00	-20.05	-	-	QP
5	501.1790	31.45	-5.16	26.29	46.00	-19.71	-	-	QP
6	750.1083	39.01	-2.14	36.87	46.00	-9.13	-	-	QP

802.11b_11Mbps (worst case)			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	56.9912	45.62	-12.24	33.38	40.00	-6.62	-	-	peak
2	115.7256	45.38	-13.36	32.02	43.50	-11.48	-	-	peak
3	145.8611	47.39	-15.25	32.14	43.50	-11.36	-	-	peak
4	250.3012	37.76	-10.88	26.88	46.00	-19.12	-	-	peak
5	443.2943	27.95	-5.38	22.57	46.00	-23.43	-	-	peak
6	750.1083	34.92	-2.14	32.78	46.00	-13.22	-	-	peak

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Test Mode: 802.11b_11Mbps(worst case)
- Antenna 1

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	61.73	-3.86	57.87	74	-16.13	H	PK
4824.000	43.58	-3.86	39.72	54	-14.28	H	AV
7236.000	58.06	1.10	59.16	74	-14.84	H	PK
7236.000	38.41	1.10	39.51	54	-14.49	H	AV
4824.000	60.35	-3.86	56.49	74	-17.51	V	PK
4824.000	46.71	-3.86	42.85	54	-11.15	V	AV
7236.000	60.14	1.10	61.24	74	-12.76	V	PK
7236.000	38.93	1.10	40.03	54	-13.97	V	AV
Middle Channel-2437MHz							
4874.000	61.28	-3.74	57.54	74	-16.46	H	PK
4874.000	42.98	-3.74	39.24	54	-14.76	H	AV
7311.000	57.61	1.47	59.08	74	-14.92	H	PK
7311.000	39.44	1.47	40.91	54	-13.09	H	AV
4874.000	59.93	-3.74	56.19	74	-17.81	V	PK
4874.000	46.59	-3.74	42.85	54	-11.15	V	AV
7311.000	59.83	1.47	61.30	74	-12.70	V	PK
7311.000	38.83	1.47	40.30	54	-13.70	V	AV
High Channel-2462MHz							
4924.000	62.14	-3.63	58.51	74	-15.49	H	PK
4924.000	43.21	-3.63	39.58	54	-14.42	H	AV
7386.000	58.10	1.62	59.72	74	-14.28	H	PK
7386.000	38.22	1.62	39.84	54	-14.16	H	AV
4924.000	60.92	-3.63	57.29	74	-16.71	V	PK
4924.000	46.26	-3.63	42.63	54	-11.37	V	AV
7386.000	59.85	1.62	61.47	74	-12.53	V	PK
7386.000	38.75	1.62	40.37	54	-13.63	V	AV

➤ Antenna 2

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	62.37	-3.86	58.51	74	-15.49	H	PK
4824.000	42.99	-3.86	39.13	54	-14.87	H	AV
7236.000	58.79	1.10	59.89	74	-14.11	H	PK
7236.000	38.88	1.10	39.98	54	-14.02	H	AV
4824.000	60.72	-3.86	56.86	74	-17.14	V	PK
4824.000	45.76	-3.86	41.90	54	-12.10	V	AV
7236.000	59.72	1.10	60.82	74	-13.18	V	PK
7236.000	39.57	1.10	40.67	54	-13.33	V	AV
Middle Channel-2437MHz							
4874.000	61.77	-3.74	58.03	74	-15.97	H	PK
4874.000	43.40	-3.74	39.66	54	-14.34	H	AV
7311.000	58.68	1.47	60.15	74	-13.85	H	PK
7311.000	38.45	1.47	39.92	54	-14.08	H	AV
4874.000	60.52	-3.74	56.78	74	-17.22	V	PK
4874.000	45.82	-3.74	42.08	54	-11.92	V	AV
7311.000	60.14	1.47	61.61	74	-12.39	V	PK
7311.000	39.69	1.47	41.16	54	-12.84	V	AV
High Channel-2462MHz							
4924.000	62.08	-3.63	58.45	74	-15.55	H	PK
4924.000	43.39	-3.63	39.76	54	-14.24	H	AV
7386.000	57.79	1.62	59.41	74	-14.59	H	PK
7386.000	38.87	1.62	40.49	54	-13.51	H	AV
4924.000	60.34	-3.63	56.71	74	-17.29	V	PK
4924.000	46.66	-3.63	43.03	54	-10.97	V	AV
7386.000	59.74	1.62	61.36	74	-12.64	V	PK
7386.000	39.24	1.62	40.86	54	-13.14	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement

KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW \geq $[3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

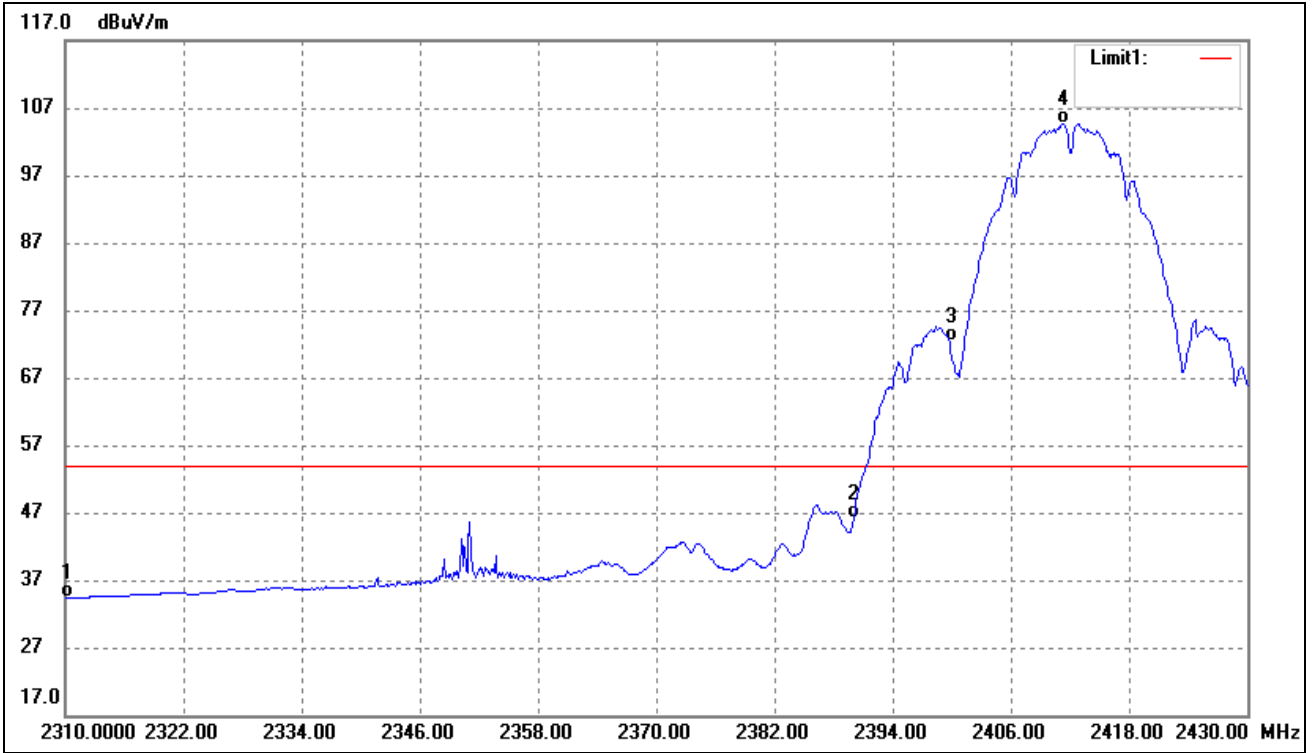
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

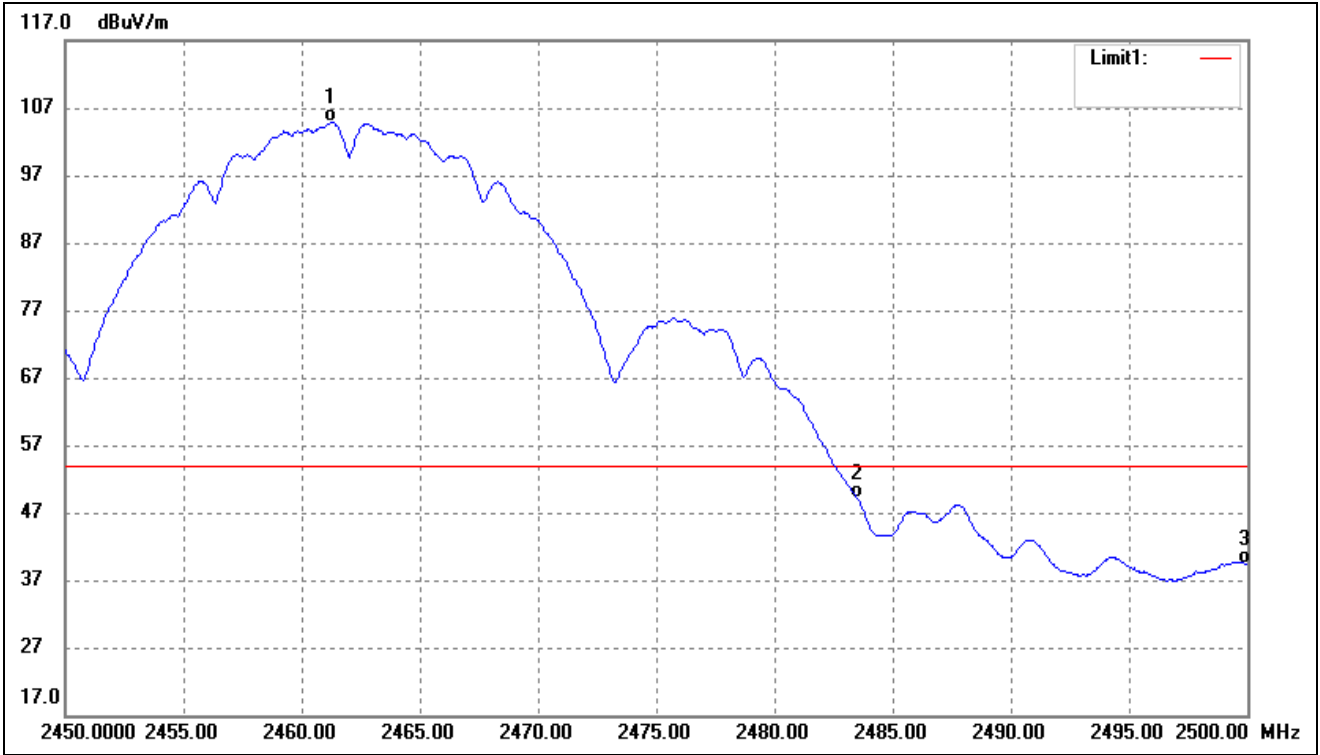
- Radiated test
- Antenna 1(worst case)

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



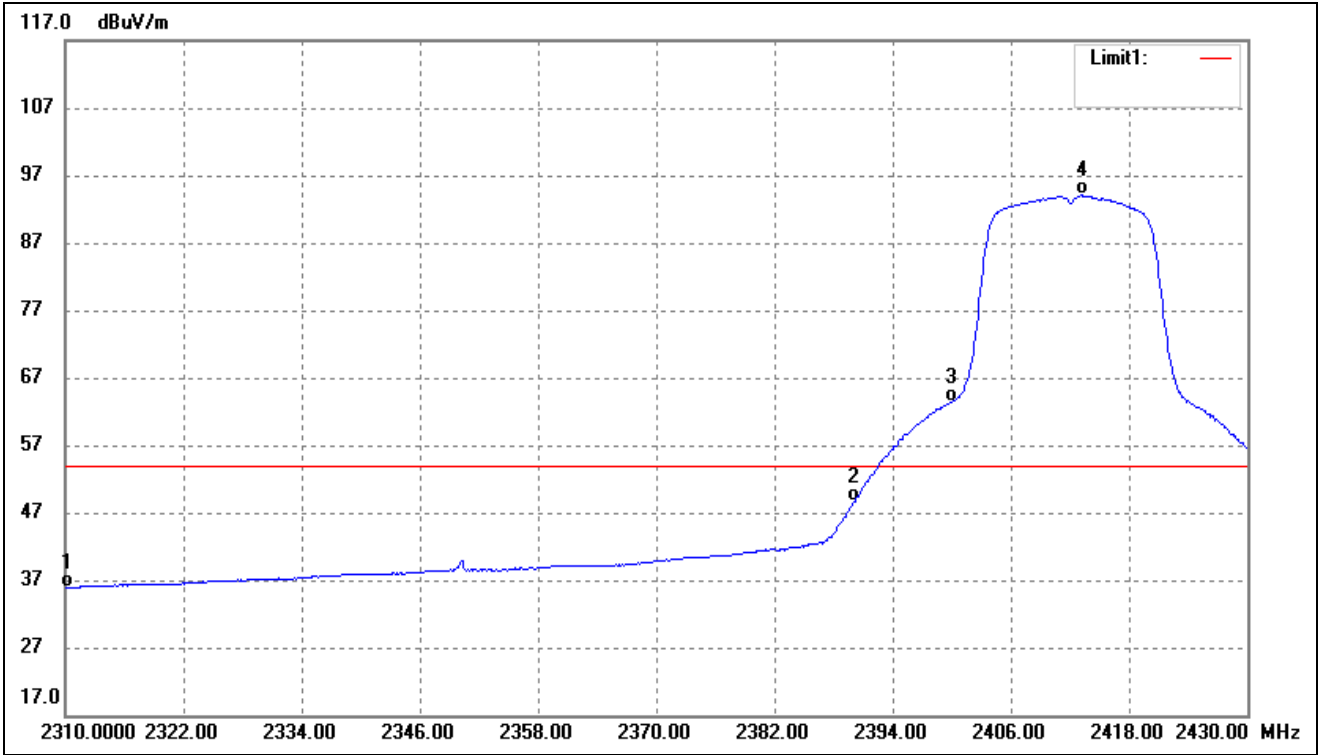
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	39.62	-5.20	34.42	54.00	-19.58	Average Detector
		51.97	-5.20	46.77	74.00	-27.23	Peak Detector
2	2390.000	51.27	-5.14	46.13	54.00	-7.87	Average Detector
		64.61	-5.14	59.47	74.00	-14.53	Peak Detector
3	2400.000	77.58	-5.13	72.45	Delta=32.25dBc		Average Detector
4	2411.280	109.82	-5.12	104.70			Average Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



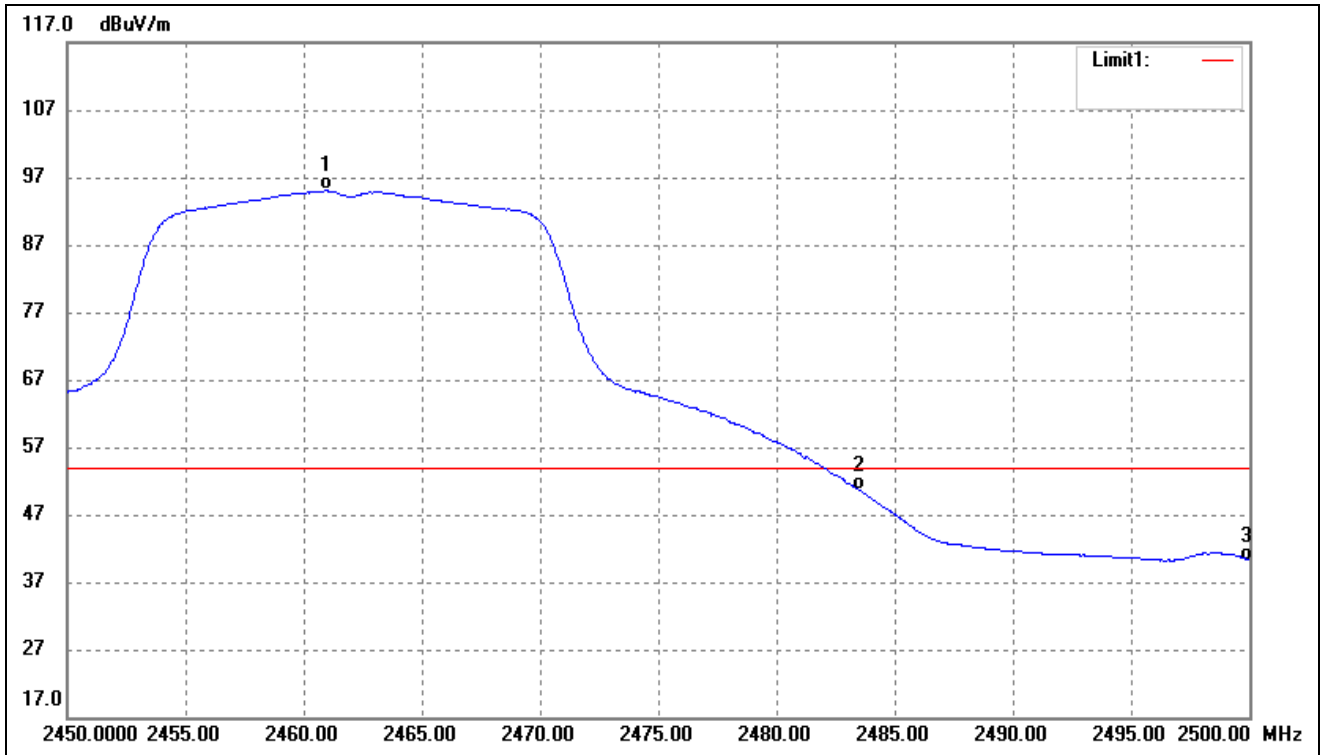
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.250	109.99	-5.08	104.91	/	/	Average Detector
	2460.900	114.84	-5.08	109.76	/	/	Peak Detector
2	2483.500	54.19	-5.07	49.12	54.00	-4.88	Average Detector
	2483.500	63.94	-5.07	58.87	74.00	-15.13	Peak Detector
3	2500.000	44.42	-5.05	39.37	54.00	-14.63	Average Detector
	2500.000	54.32	-5.05	49.27	74.00	-24.73	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



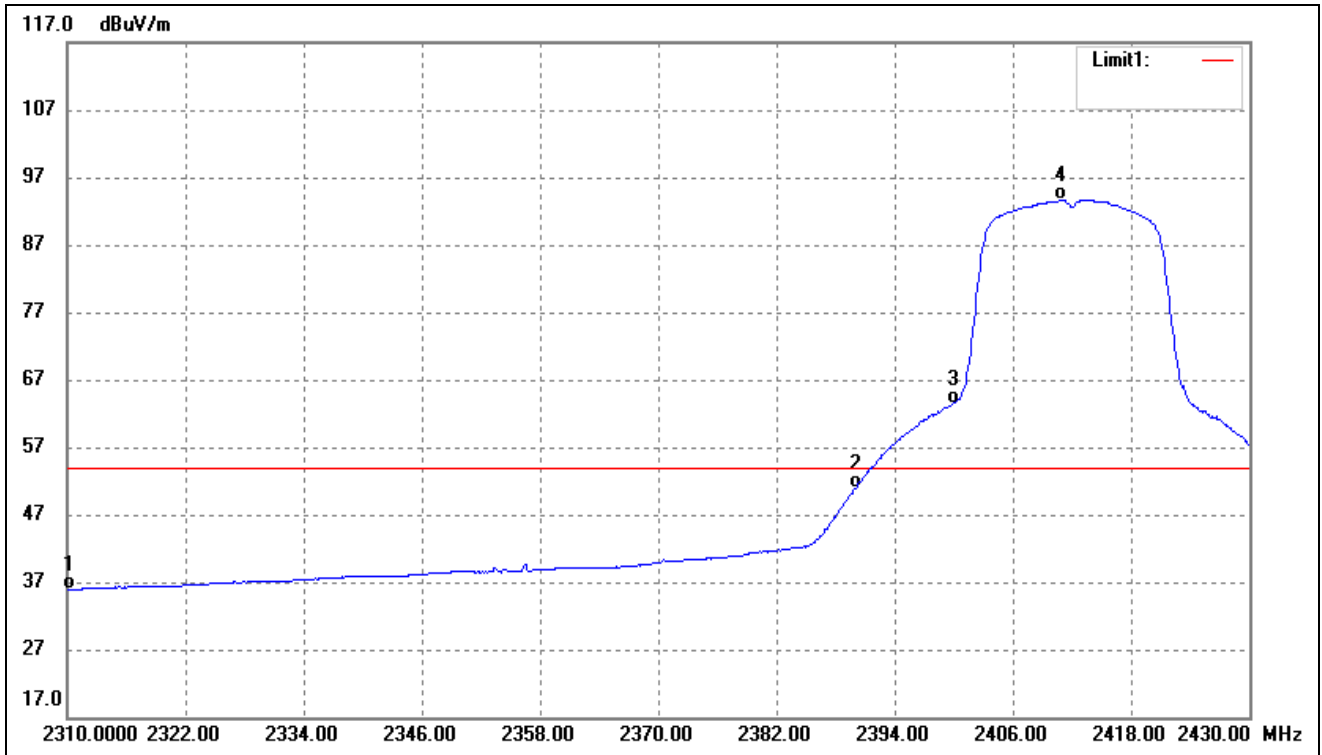
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.13	-5.20	35.93	54.00	-18.07	Average Detector
		54.15	-5.20	48.95	74.00	-25.05	Peak Detector
2	2390.000	53.72	-5.14	48.58	54.00	-5.42	Average Detector
		75.08	-5.14	69.94	74.00	-4.06	Peak Detector
3	2400.000	68.54	-5.13	63.41	Delta=30.72dBc		Average Detector
4	2413.200	99.25	-5.12	94.13		Average Detector	

802.11g_54Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



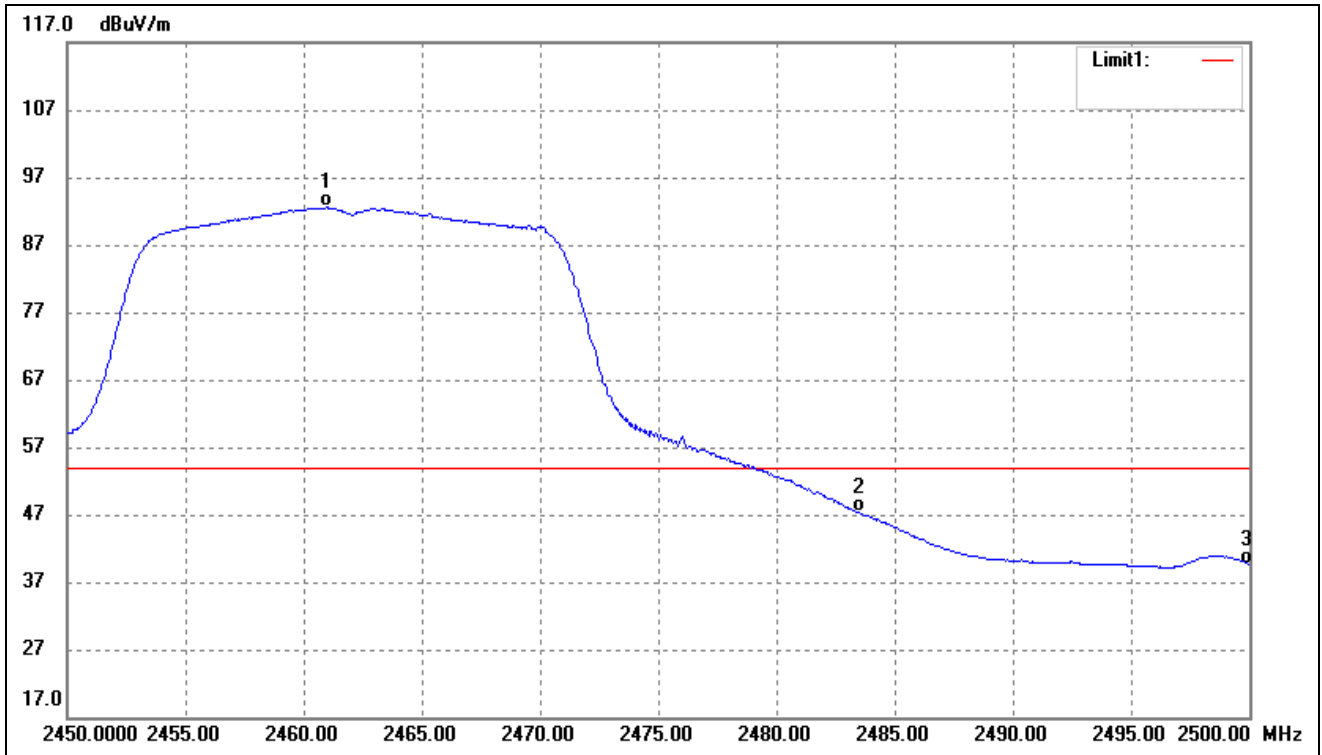
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.950	100.13	-5.08	95.05	/	/	Average Detector
	2465.050	112.41	-5.07	107.34	/	/	Peak Detector
2	2483.500	55.67	-5.07	50.60	54.00	-3.40	Average Detector
	2483.500	75.23	-5.07	70.16	74.00	-3.84	Peak Detector
3	2500.000	45.24	-5.05	40.19	54.00	-13.81	Average Detector
	2500.000	58.60	-5.05	53.55	74.00	-20.45	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



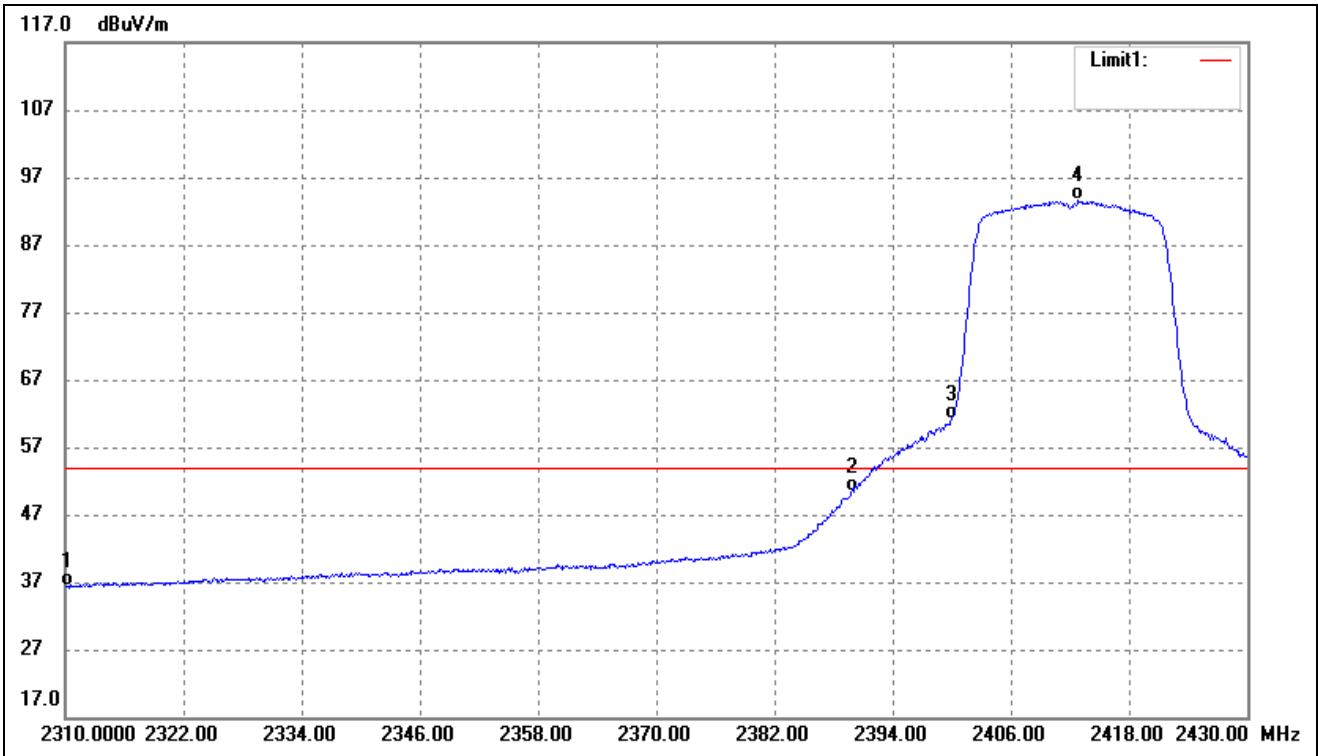
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.10	-5.20	35.90	54.00	-18.10	Average Detector
		53.15	-5.20	47.95	74.00	-26.05	Peak Detector
2	2390.000	56.02	-5.14	50.88	54.00	-3.12	Average Detector
		74.16	-5.14	69.02	74.00	-4.98	Peak Detector
3	2400.000	68.63	-5.13	63.50	Delta=30.24dBc		Average Detector
4	2410.920	98.86	-5.12	93.74		Average Detector	

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



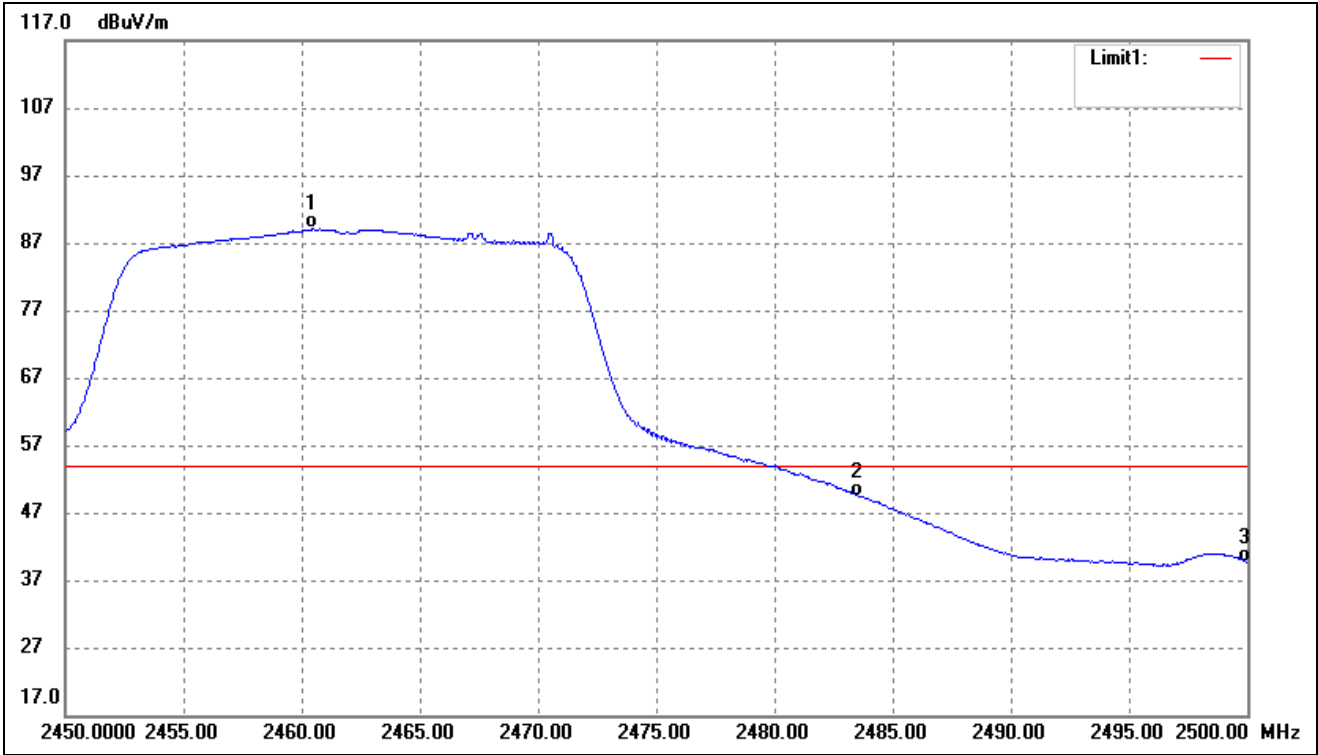
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.950	97.59	-5.08	92.51	/	/	Average Detector
	2463.050	111.31	-5.08	106.23	/	/	Peak Detector
2	2483.500	52.33	-5.07	47.26	54.00	-6.74	Average Detector
	2483.500	73.74	-5.07	68.67	74.00	-5.33	Peak Detector
3	2500.000	44.64	-5.05	39.59	54.00	-14.41	Average Detector
	2500.000	57.89	-5.05	52.84	74.00	-21.16	Peak Detector

802.11ax-HE20_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



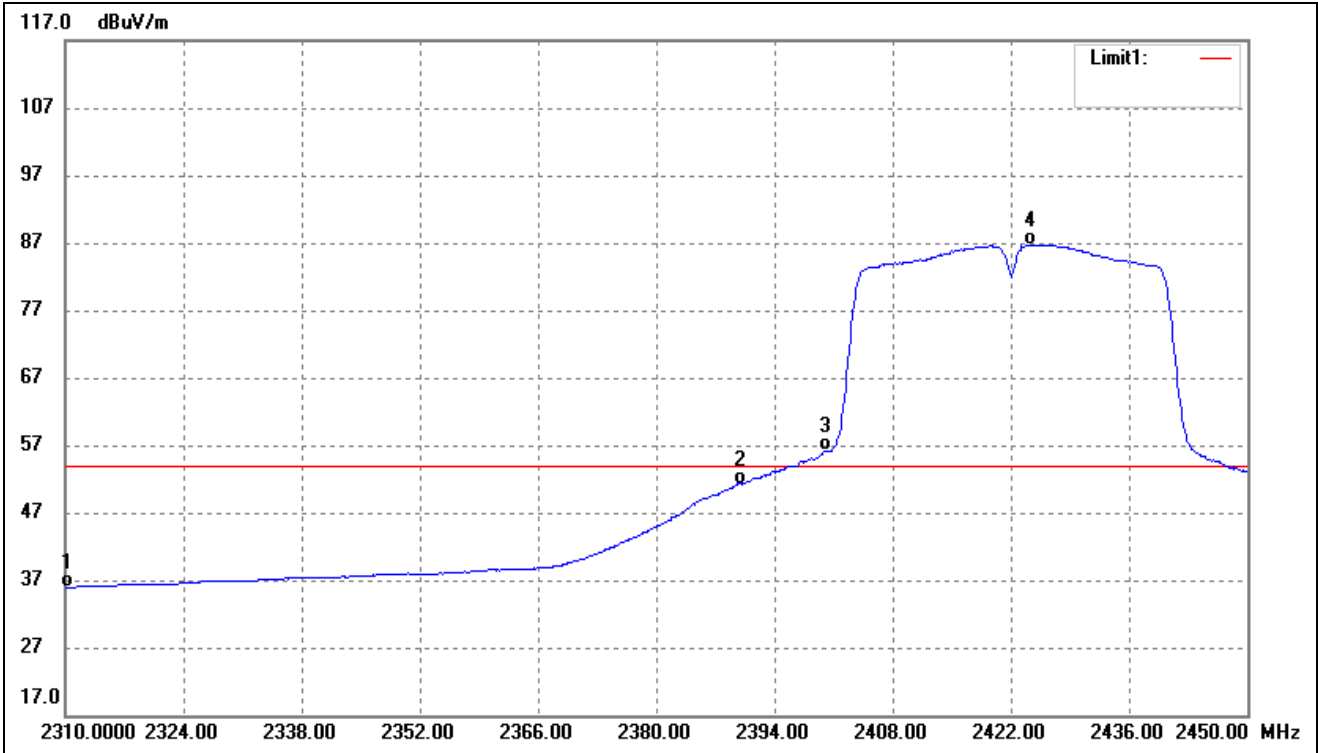
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.63	-5.20	36.43	54.00	-17.57	Average Detector
	2310.000	54.10	-5.20	48.90	74.00	-25.10	Peak Detector
2	2390.000	55.52	-5.14	50.38	54.00	-3.62	Average Detector
	2390.000	76.90	-5.14	71.76	74.00	-2.24	Peak Detector
3	2400.000	66.18	-5.13	61.05	Delta=32.16dBc		Average Detector
4	2412.840	98.78	-5.12	93.66		Average Detector	

802.11ax-HE20_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



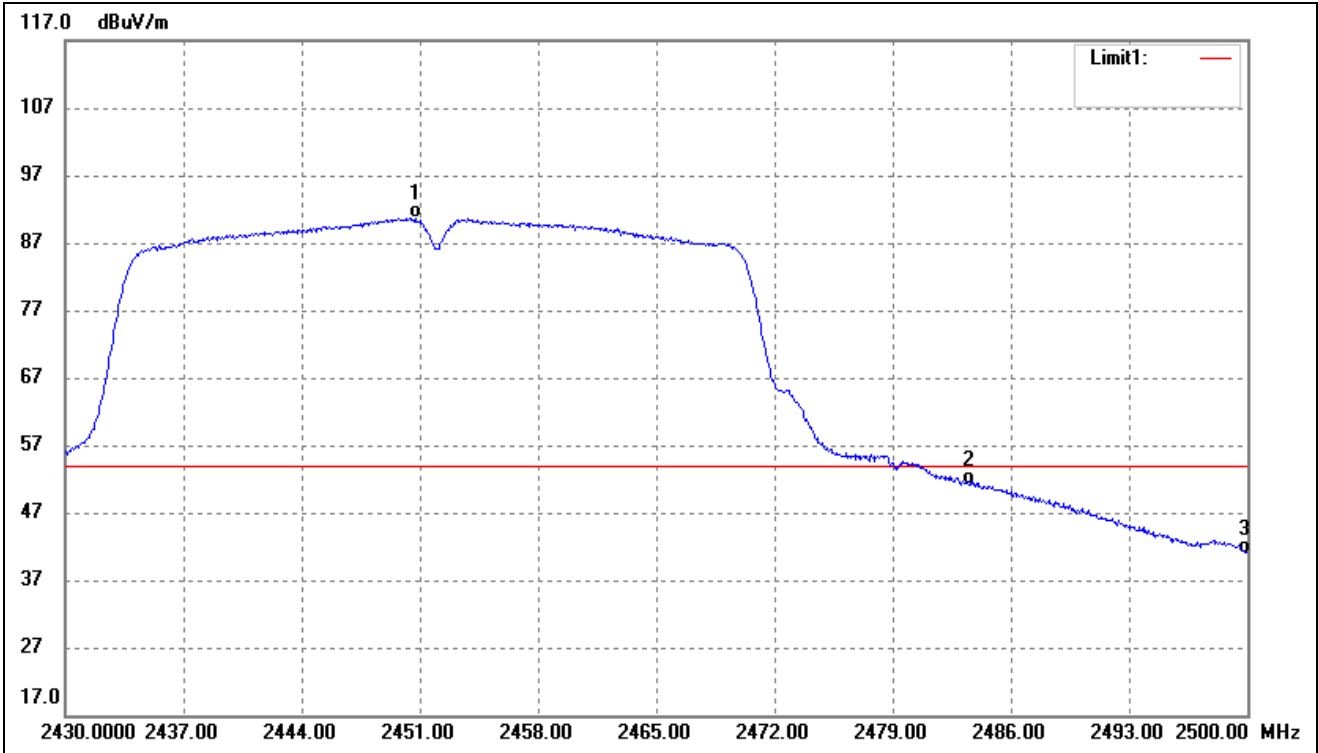
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.450	94.18	-5.08	89.10	/	/	Average Detector
	2461.350	112.25	-5.08	107.17	/	/	Peak Detector
2	2483.500	54.57	-5.07	49.50	54.00	-4.50	Average Detector
	2483.500	76.88	-5.07	71.81	74.00	-2.19	Peak Detector
3	2500.000	44.77	-5.05	39.72	54.00	-14.28	Average Detector
	2500.000	57.59	-5.05	52.54	74.00	-21.46	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



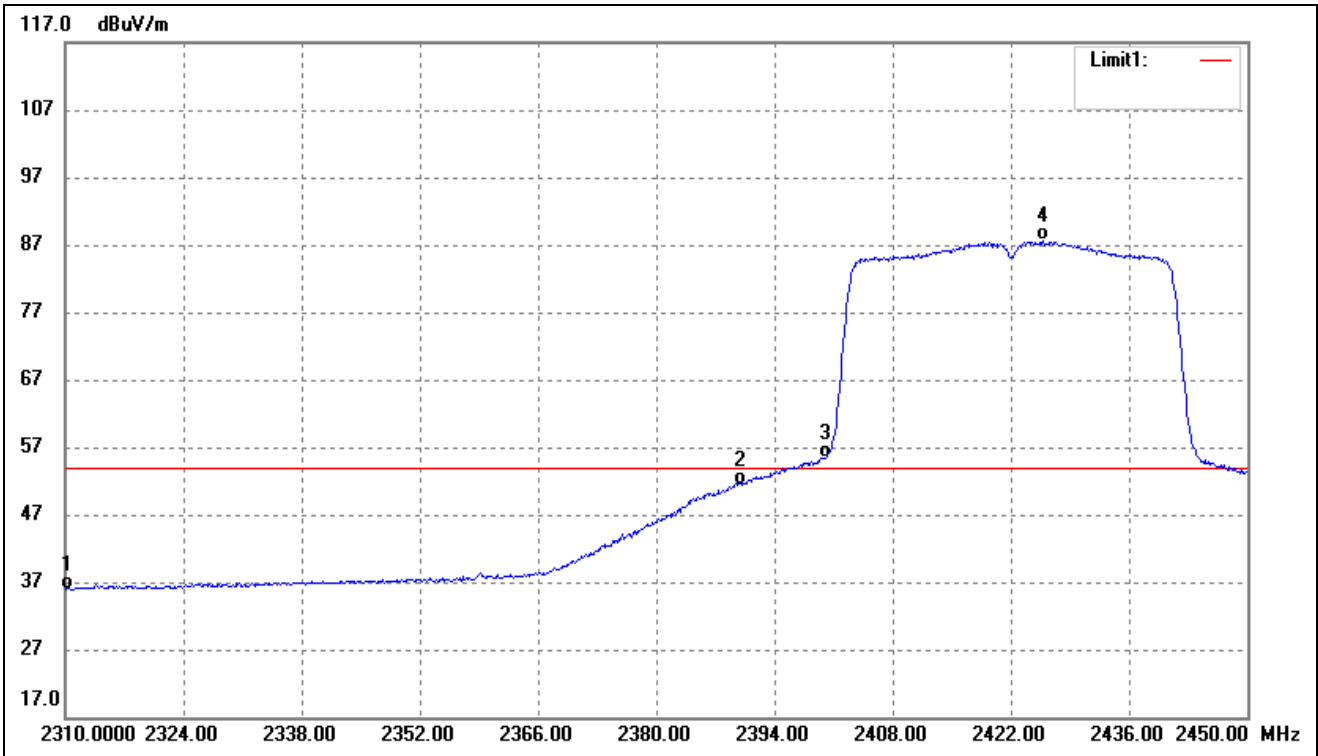
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.13	-5.20	35.93	54.00	-18.07	Average Detector
		53.86	-5.20	48.66	74.00	-25.34	Peak Detector
2	2390.000	56.35	-5.14	51.21	54.00	-2.79	Average Detector
		75.75	-5.14	70.61	74.00	-3.39	Peak Detector
3	2400.000	61.21	-5.13	56.08	Delta=30.66dBc		Average Detector
4	2424.380	91.84	-5.10	86.74		Average Detector	

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



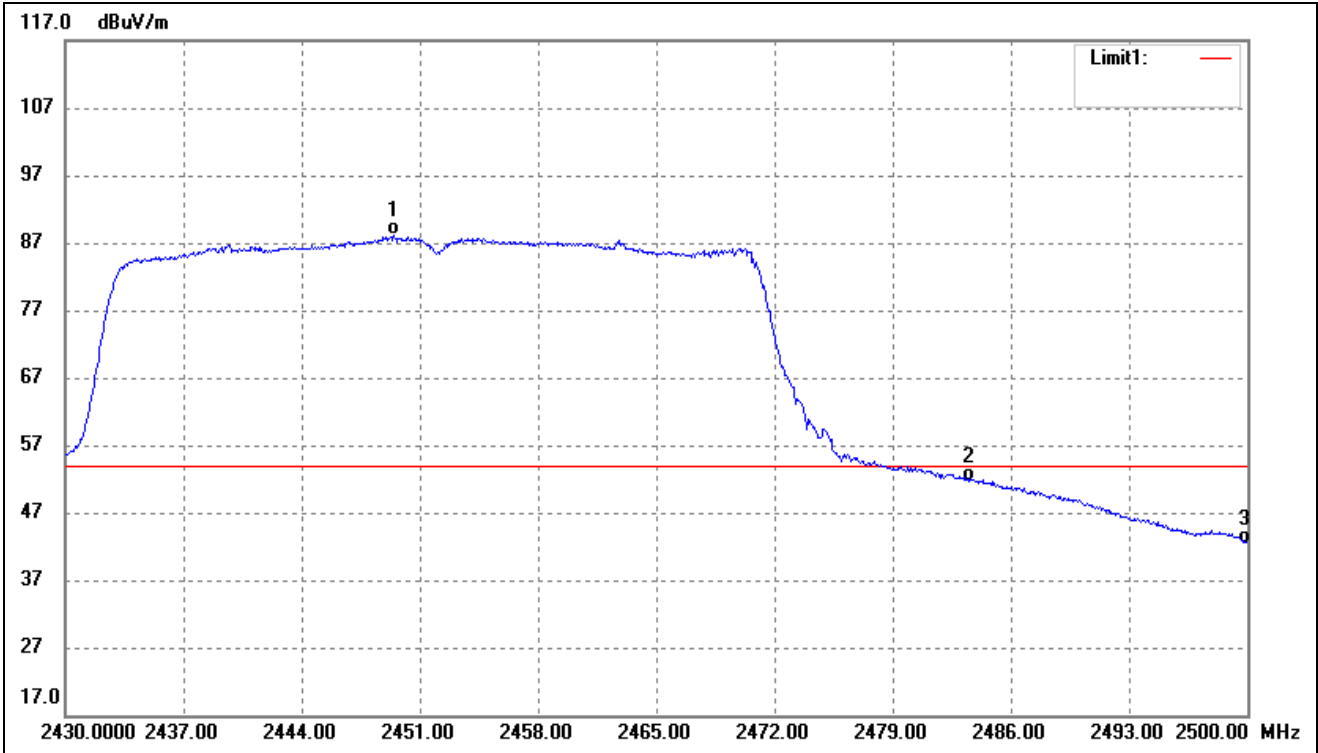
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2450.720	95.67	-5.09	90.58	/	/	Average Detector
	2449.880	107.35	-5.09	102.26	/	/	Peak Detector
2	2483.500	56.22	-5.07	51.15	54.00	-2.85	Average Detector
	2483.500	75.64	-5.07	70.57	74.00	-3.43	Peak Detector
3	2500.000	45.95	-5.05	40.90	54.00	-13.10	Average Detector
	2500.000	63.66	-5.05	58.61	74.00	-15.39	Peak Detector

802.11ax-HE40_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.19	-5.20	35.99	54.00	-18.01	Average Detector
	2310.000	54.14	-5.20	48.94	74.00	-25.06	Peak Detector
2	2390.000	56.61	-5.14	51.47	54.00	-2.53	Average Detector
	2390.000	73.48	-5.14	68.34	74.00	-5.66	Peak Detector
3	2400.000	60.63	-5.13	55.50	Delta=32.07dBc		Average Detector
4	2425.780	92.68	-5.11	87.57		Average Detector	

802.11ax-HE40_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2449.460	93.26	-5.09	88.17	/	/	Average Detector
	2453.030	109.56	-5.09	104.47	/	/	Peak Detector
2	2483.500	56.67	-5.07	51.60	54.00	-2.40	Average Detector
	2483.500	75.05	-5.07	69.98	74.00	-4.02	Peak Detector
3	2500.000	47.52	-5.05	42.47	54.00	-11.53	Average Detector
	2500.000	64.67	-5.05	59.62	74.00	-14.38	Peak Detector

➤ Conducted test

Please refer to Appendix D

9. Conducted Emissions

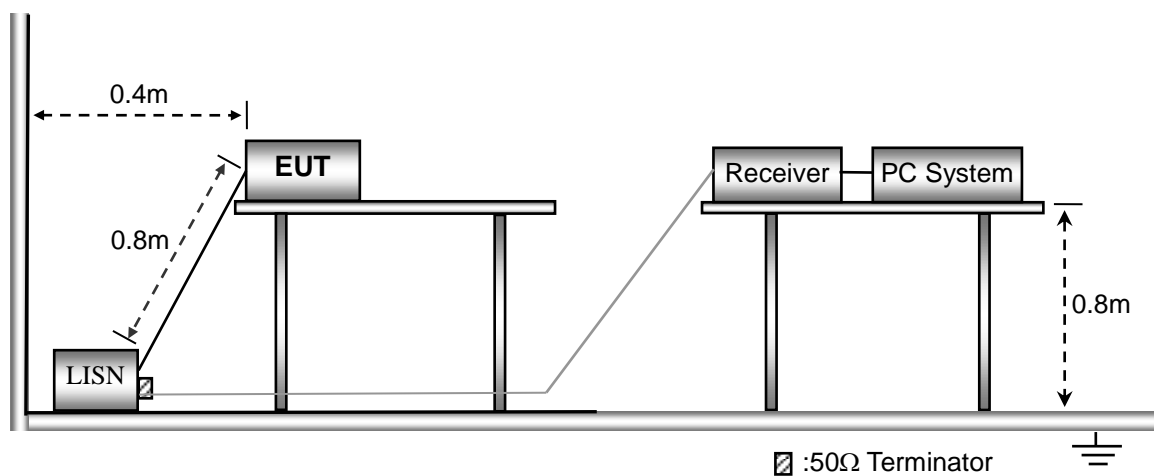
9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

9.2 Basic Test Setup Block Diagram



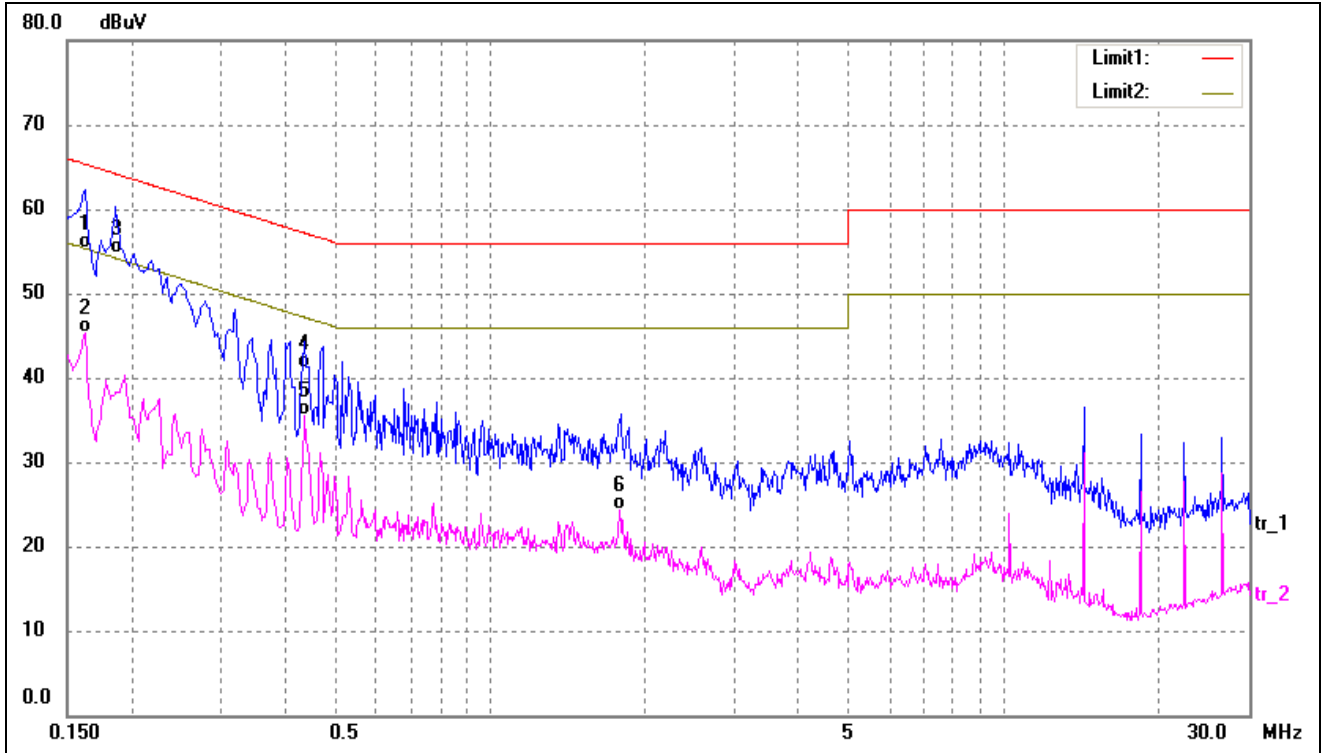
9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150kHz
Stop Frequency	30MHz
Sweep Speed	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth	9kHz
Quasi-Peak Adapter Mode	Normal

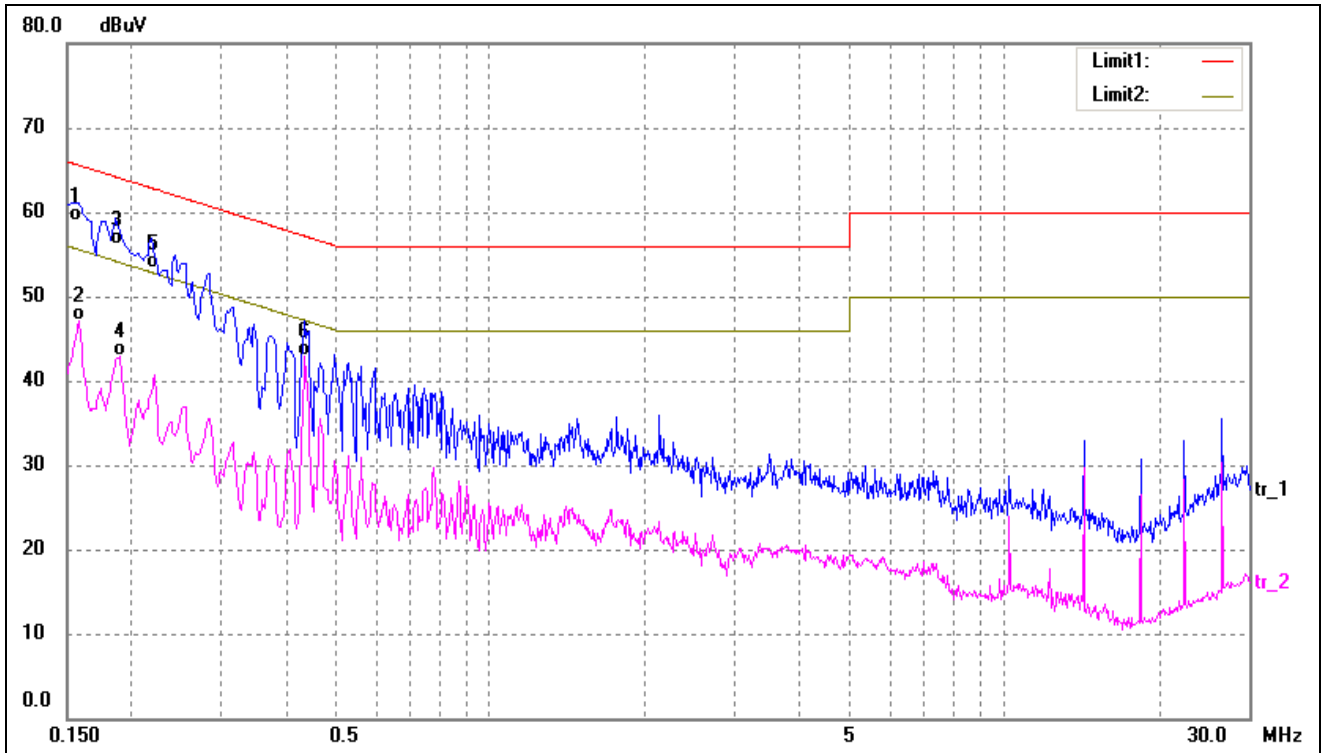
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	45.01	10.26	55.27	65.36	-10.09	QP
2	0.1620	35.12	10.26	45.38	55.36	-9.98	AVG
3*	0.1860	44.45	10.26	54.71	64.21	-9.50	QP
4	0.4340	30.86	10.22	41.08	57.18	-16.10	QP
5	0.4340	25.19	10.22	35.41	47.18	-11.77	AVG
6	1.7860	14.07	10.26	24.33	46.00	-21.67	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
-----------	---------------	-------------	-----------	------



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	48.63	10.25	58.88	65.78	-6.90	QP
2	0.1580	36.90	10.25	47.15	55.57	-8.42	AVG
3	0.1860	45.90	10.26	56.16	64.21	-8.05	QP
4	0.1900	32.69	10.26	42.95	54.04	-11.09	AVG
5	0.2180	42.98	10.26	53.24	62.89	-9.65	QP
6*	0.4340	32.66	10.22	42.88	47.18	-4.30	AVG

APPENDIX SUMMARY

Project No.	WTX21X08081529W	Test Engineer	Gala
Start date	2021/8/23	Finish date	2021/8/23
Temperature	26°C	Humidity	43%
RF specifications	WIFI-2.4G	Antenna Gain	6.68dBi

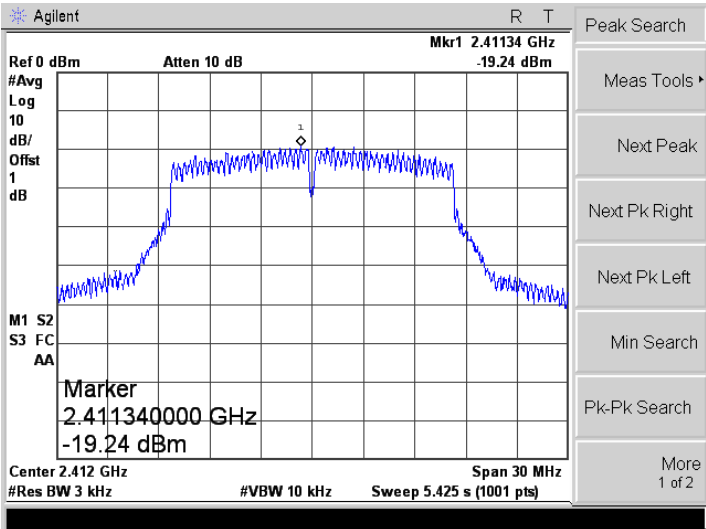
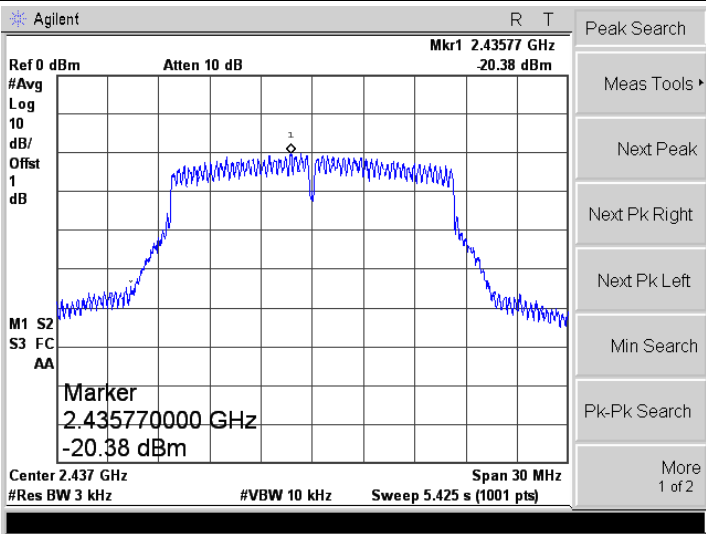
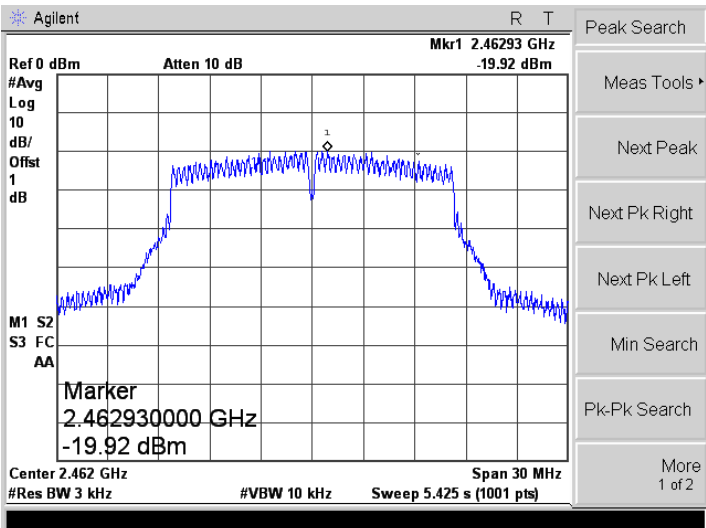
APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

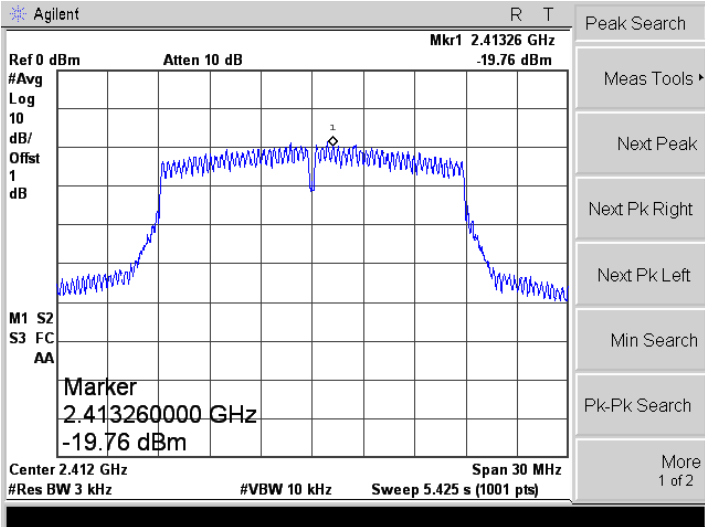
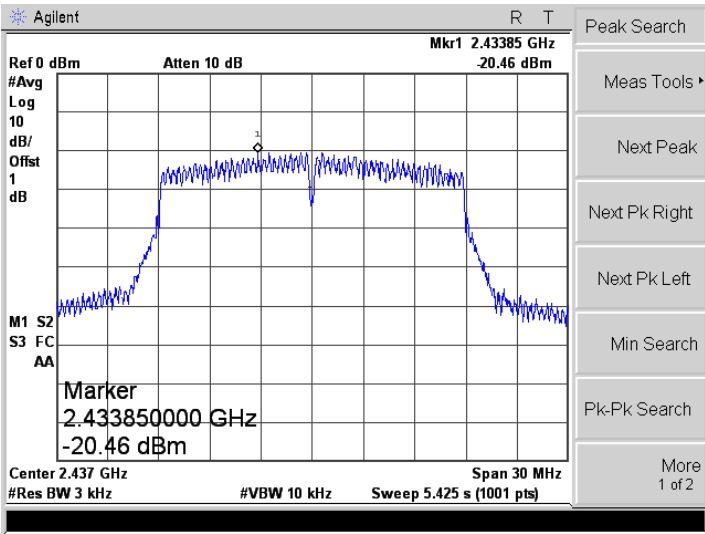
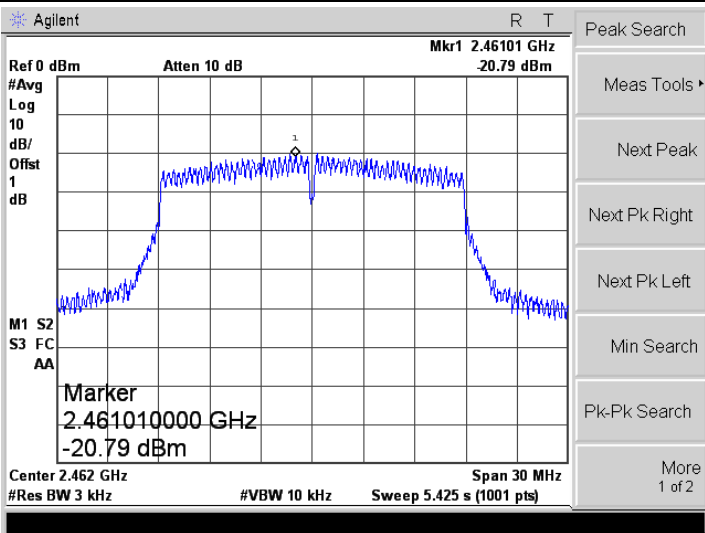
APPENDIX A

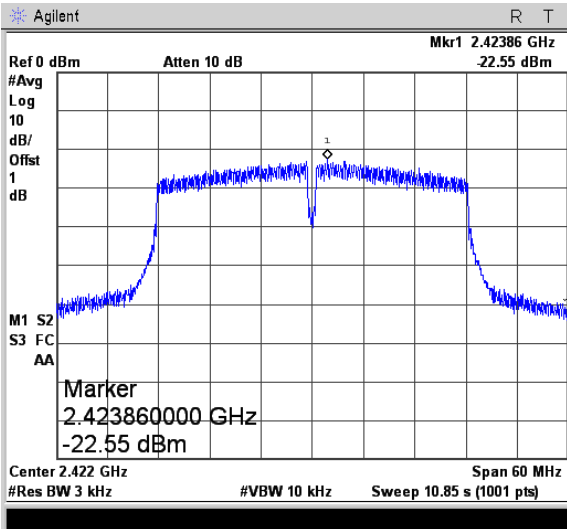
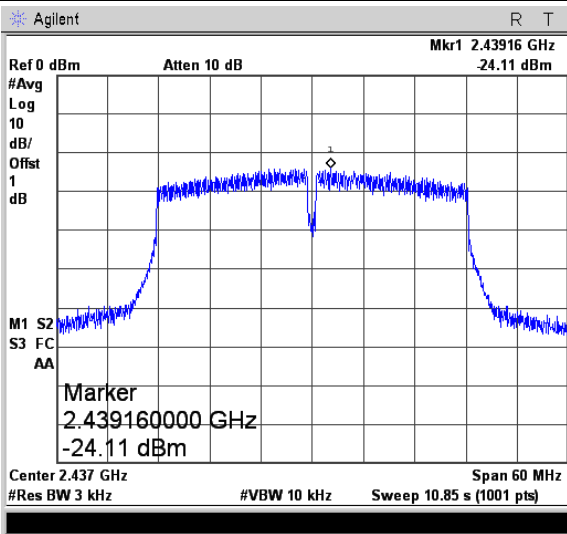
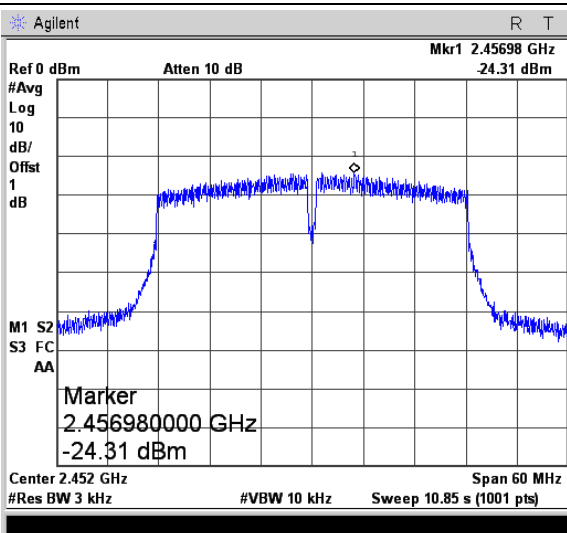
Power Spectral Density					
Test Mode	Test Channel MHz	Test Result(dBm/3kHz)		Total dBm	Limit dBm/3kHz
		Antenna 1	Antenna 2		
802.11b_1Mbps	2412	-16.78	-15.13	/	7.32
	2437	-16.61	-16.28	/	7.32
	2462	-16.26	-15.44	/	7.32
802.11g_6Mbps	2412	-19.24	-19.59	/	7.32
	2437	-20.38	-20.06	/	7.32
	2462	-19.92	-19.43	/	7.32
802.11n-HT20_MCS0	2412	-19.76	-19.26	-16.49	7.32
	2437	-20.46	-20.08	-17.26	7.32
	2462	-20.79	-20.24	-17.50	7.32
802.11n-HT40_MCS0	2422	-22.55	-23.43	-19.96	7.32
	2437	-24.11	-24.46	-21.27	7.32
	2452	-24.31	-24.25	-21.27	7.32
802.11ax-HE20_MCS0	2412	-22.74	-19.2	-17.61	7.32
	2437	-21.64	-21.59	-18.60	7.32
	2462	-21.12	-20.89	-17.99	7.32
802.11ax-HE40_MCS0	2422	-23.52	-23.71	-20.60	7.32
	2437	-21.64	-24.18	-19.72	7.32
	2452	-21.12	-24.41	-19.45	7.32

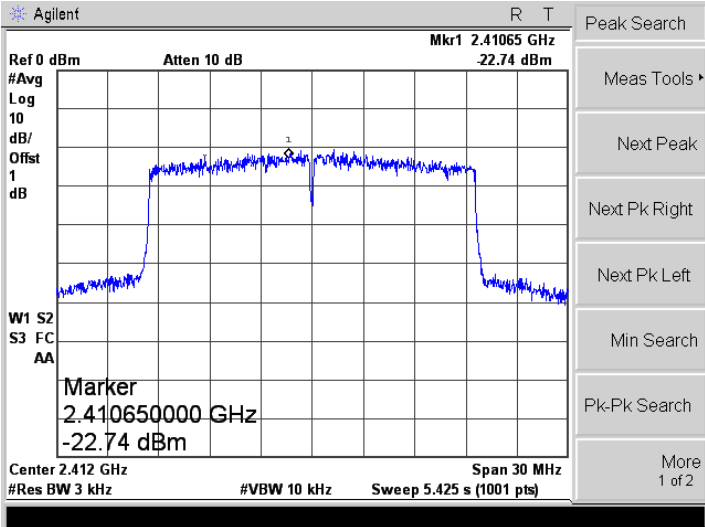
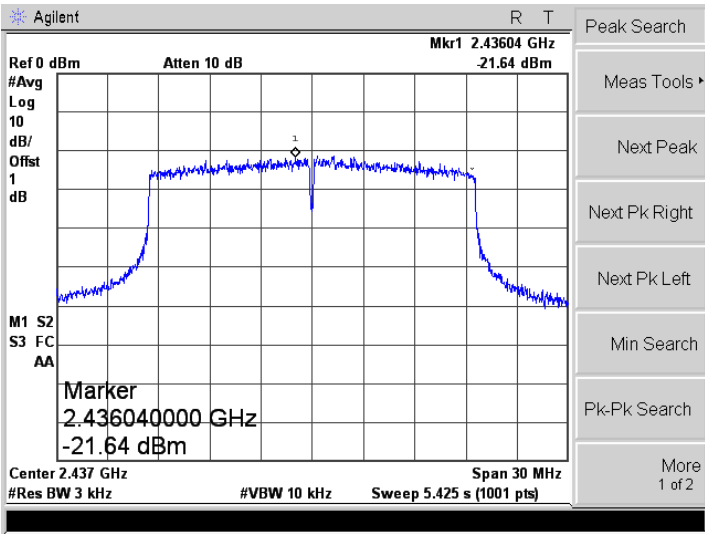
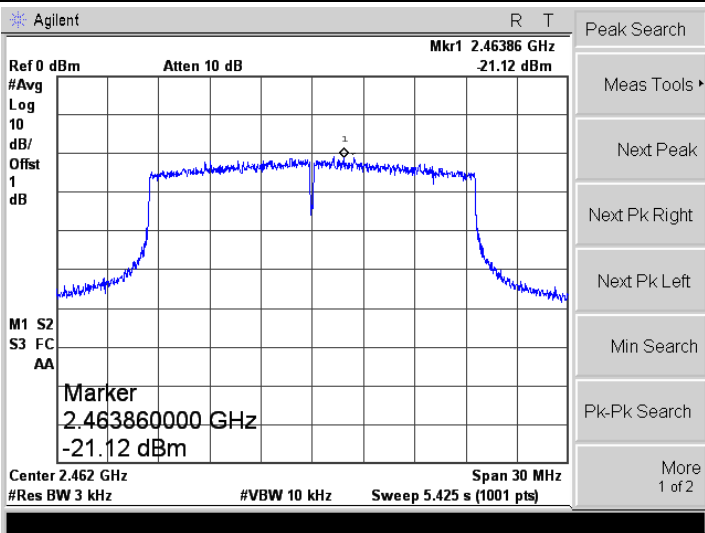
Antenna 1

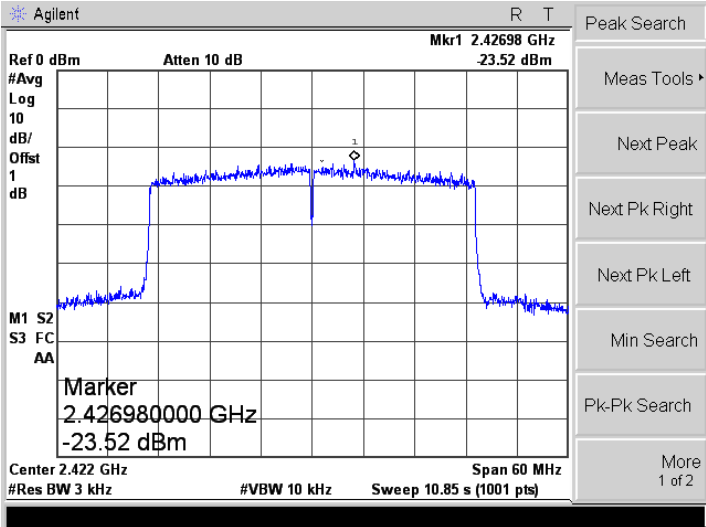
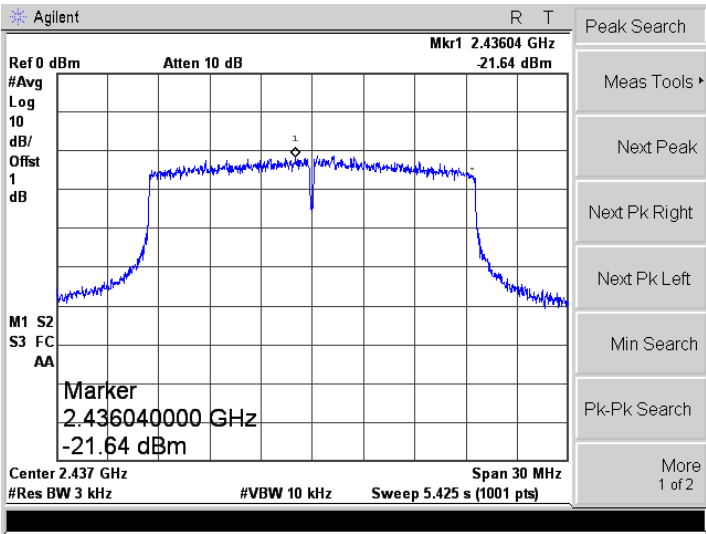
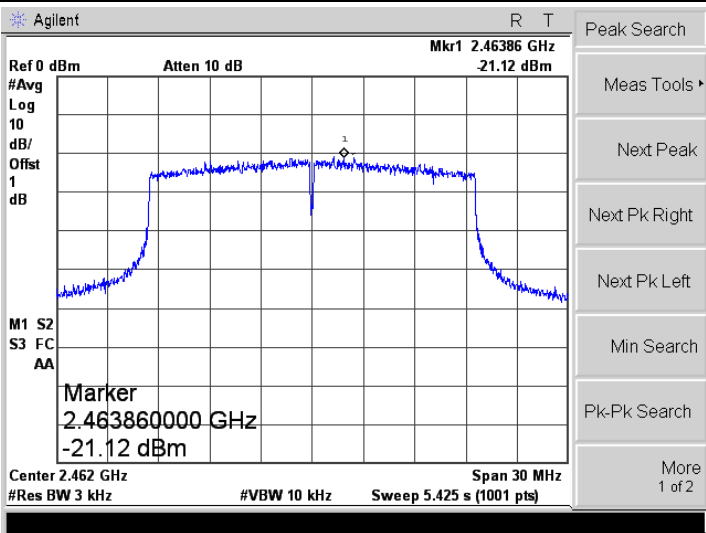
<p>802.11b-Low</p>	<p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41140 GHz -16.78 dBm #Avg Log 10 dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.41140000 GHz -16.78 dBm Center 2.412 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11b-Middle</p>	<p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43766 GHz -16.61 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.43766000 GHz -16.61 dBm Center 2.437 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11b-High</p>	<p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.46107 GHz -16.26 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.46107000 GHz -16.26 dBm Center 2.462 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>

<p>802.11g-Low</p>	
<p>802.11g-Middle</p>	
<p>802.11g-High</p>	

<p>802.11n-HT20-Low</p>	 <p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41326 GHz -19.76 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.413260000 GHz -19.76 dBm Center 2.412 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11n-HT20-Middle</p>	 <p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43385 GHz -20.46 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.433850000 GHz -20.46 dBm Center 2.437 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11n-HT20-High</p>	 <p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.46101 GHz -20.79 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.461010000 GHz -20.79 dBm Center 2.462 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>

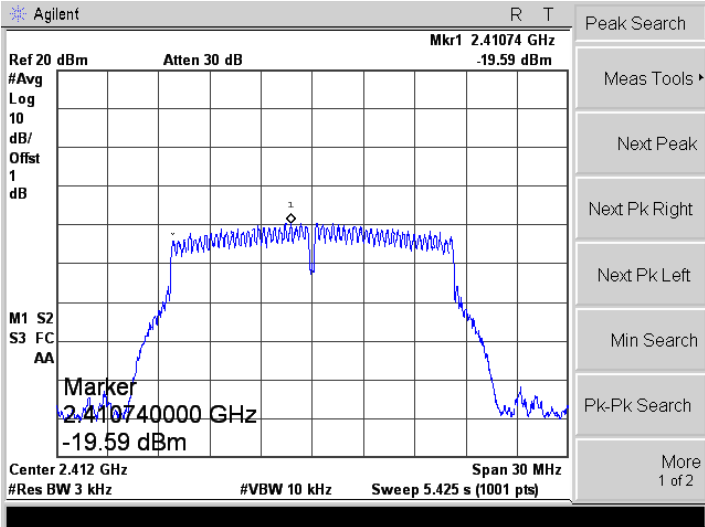
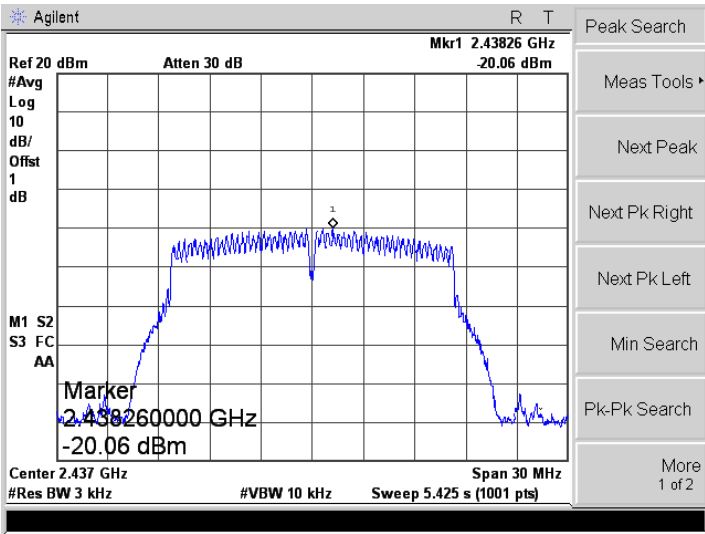
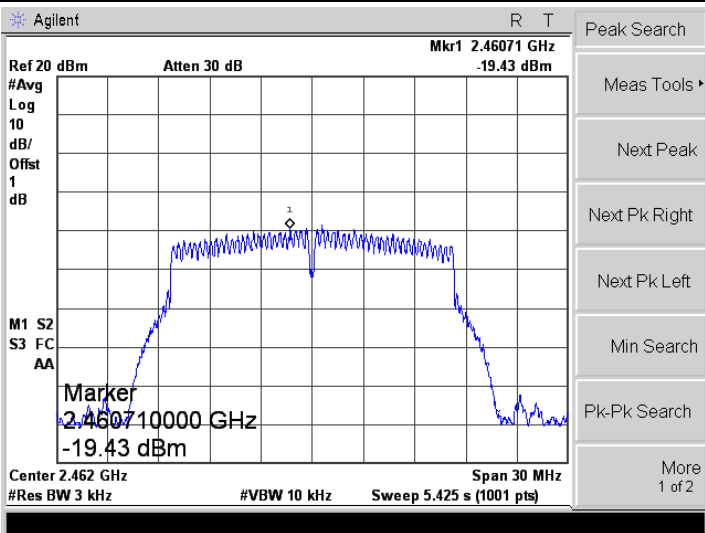
<p>802.11n-HT40-Low</p>	 <p>Agilent R T Mkr1 2.42386 GHz -22.55 dBm Ref 0 dBm Atten 10 dB #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.423860000 GHz -22.55 dBm Center 2.422 GHz Span 60 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts)</p>
<p>802.11n-HT40-Middle</p>	 <p>Agilent R T Mkr1 2.43916 GHz -24.11 dBm Ref 0 dBm Atten 10 dB #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.439160000 GHz -24.11 dBm Center 2.437 GHz Span 60 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts)</p>
<p>802.11n-HT40-High</p>	 <p>Agilent R T Mkr1 2.45698 GHz -24.31 dBm Ref 0 dBm Atten 10 dB #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.456980000 GHz -24.31 dBm Center 2.452 GHz Span 60 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts)</p>

<p>802.11ax-HE20-Low</p>	 <p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41065 GHz -22.74 dBm #Avg 10 Log dB/ Offst 1 dB W1 S2 S3 FC AA Marker 2.410650000 GHz -22.74 dBm Center 2.412 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11ax-HE20-Middle</p>	 <p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43604 GHz -21.64 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.436040000 GHz -21.64 dBm Center 2.437 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11ax-HE20-High</p>	 <p>Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.46386 GHz -21.12 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.463860000 GHz -21.12 dBm Center 2.462 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>

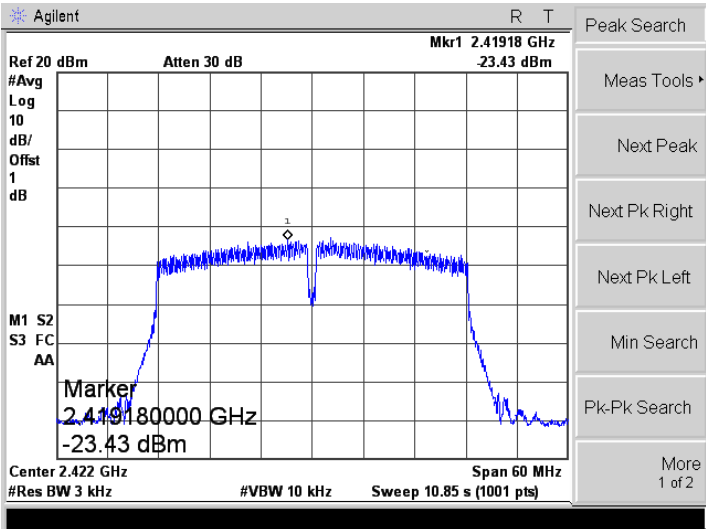
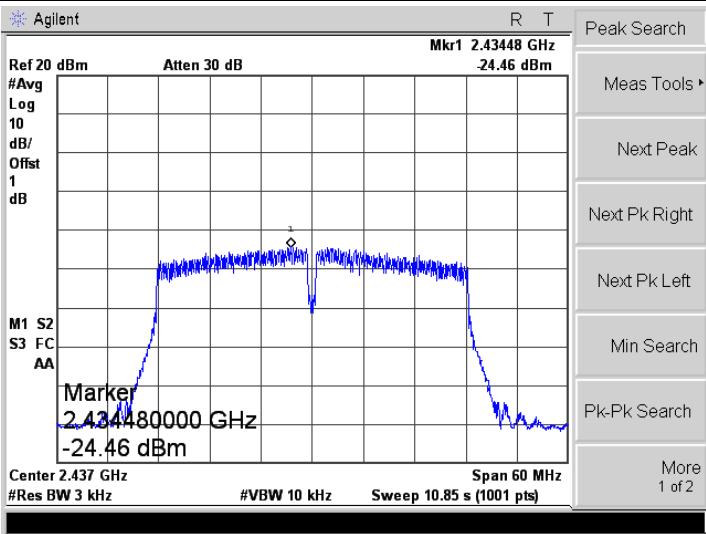
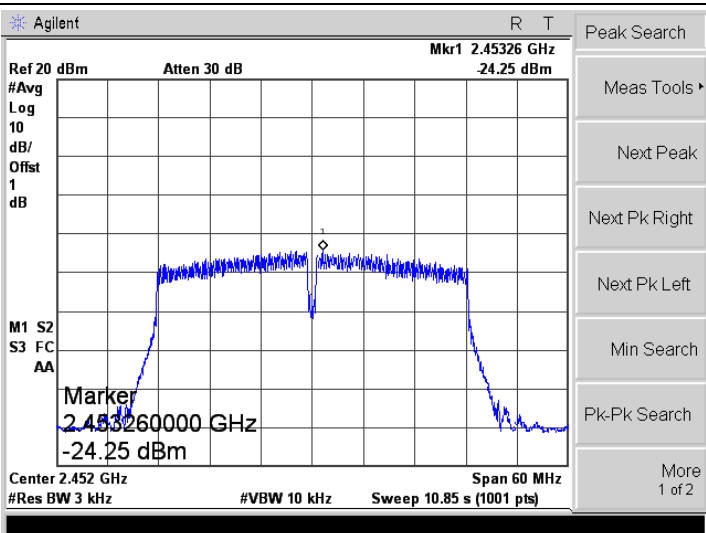
<p>802.11ax-HE40-Low</p>	
<p>802.11ax-HE40-Middle</p>	
<p>802.11ax-HE40-High</p>	

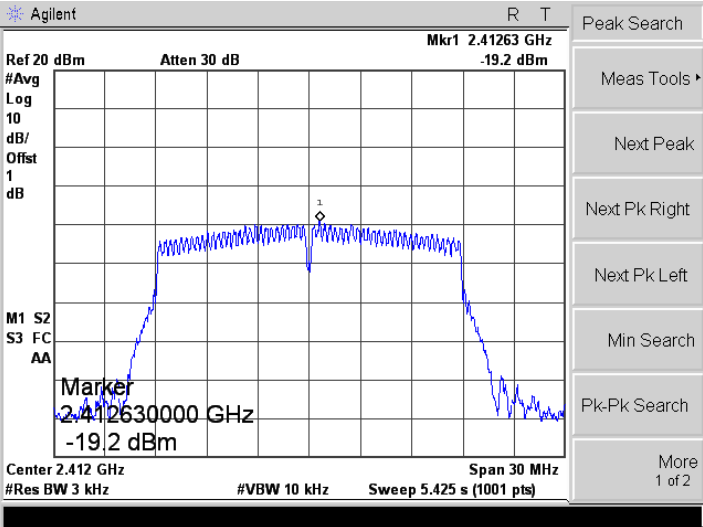
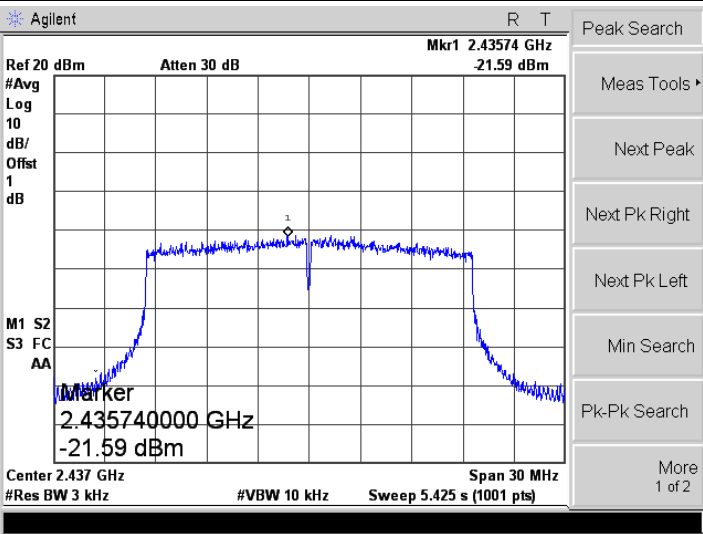
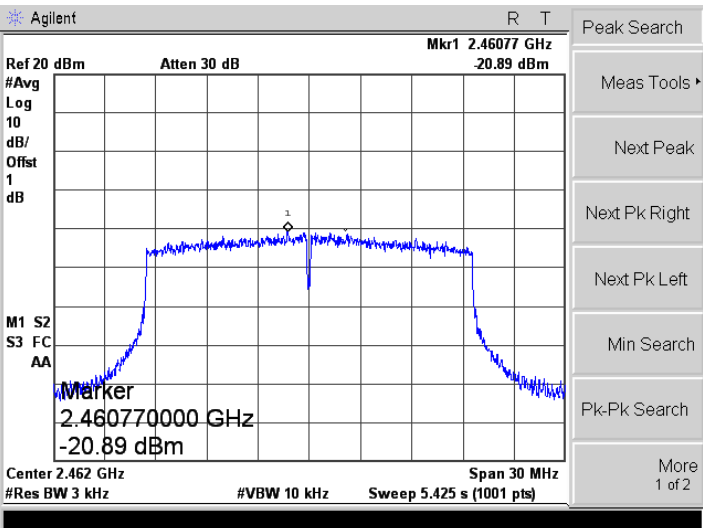
Antenna 2

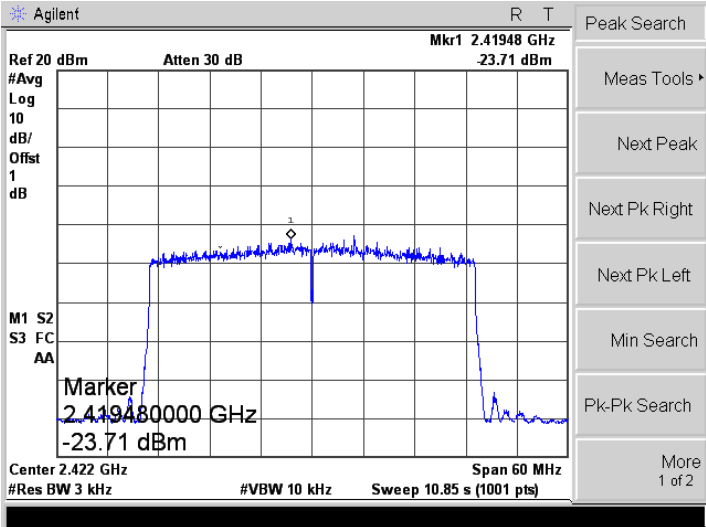
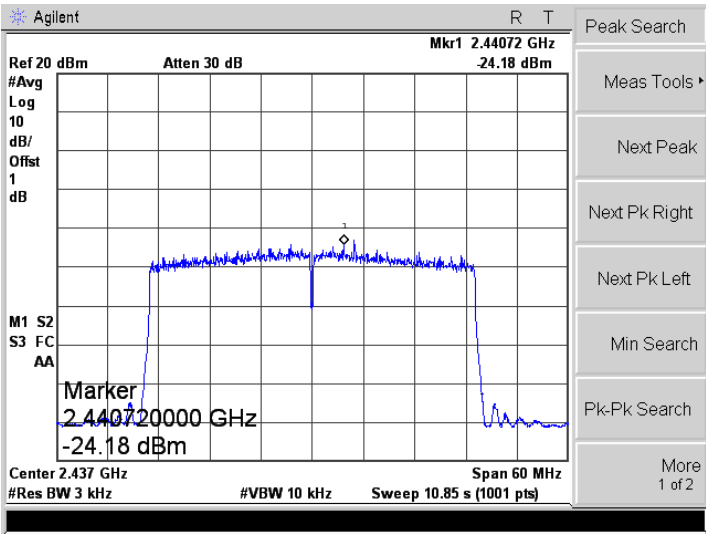
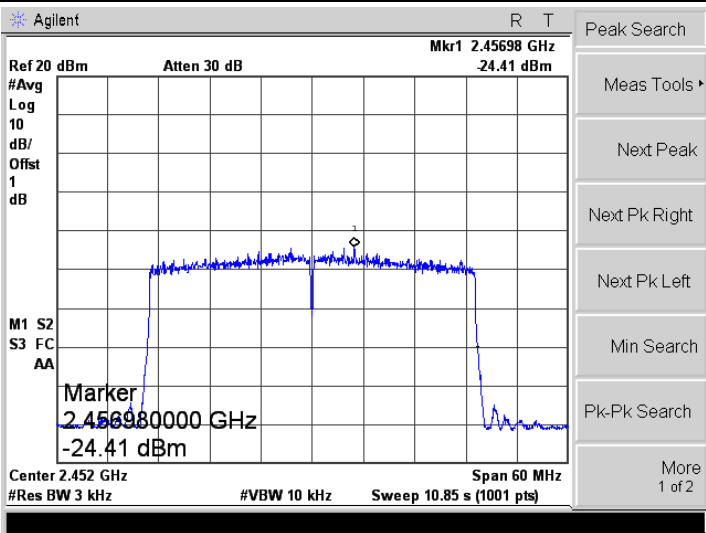
<p>802.11b-Low</p>	
<p>802.11b-Middle</p>	
<p>802.11b-High</p>	

<p>802.11g-Low</p>	
<p>802.11g-Middle</p>	
<p>802.11g-High</p>	

<p>802.11n-HT20-Low</p>	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.41452 GHz -19.26 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.414520000 GHz -19.26 dBm Center 2.412 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11n-HT20-Middle</p>	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.43574 GHz -20.08 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.435740000 GHz -20.08 dBm Center 2.437 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>
<p>802.11n-HT20-High</p>	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46170 GHz -20.24 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.461700000 GHz -20.24 dBm Center 2.462 GHz Span 30 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts)</p>

<p>802.11n-HT40-Low</p>	
<p>802.11n-HT40-Middle</p>	
<p>802.11n-HT40-High</p>	

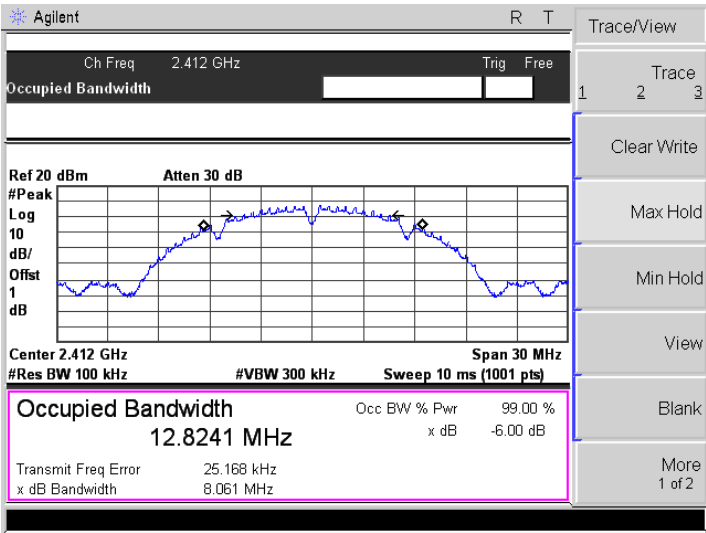
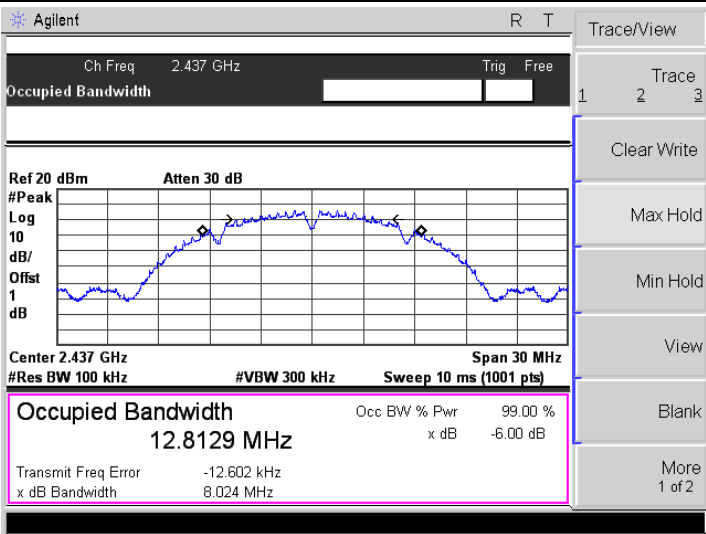
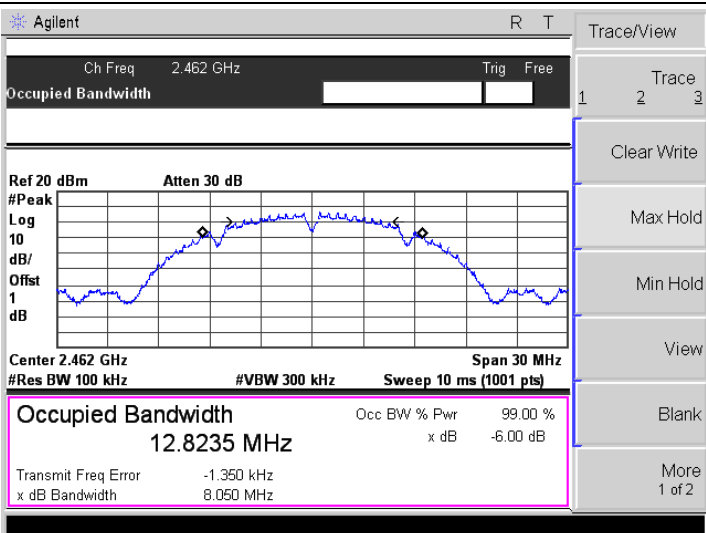
<p>802.11ax-HE20-Low</p>	
<p>802.11ax-HE20-Middle</p>	
<p>802.11ax-HE20-High</p>	

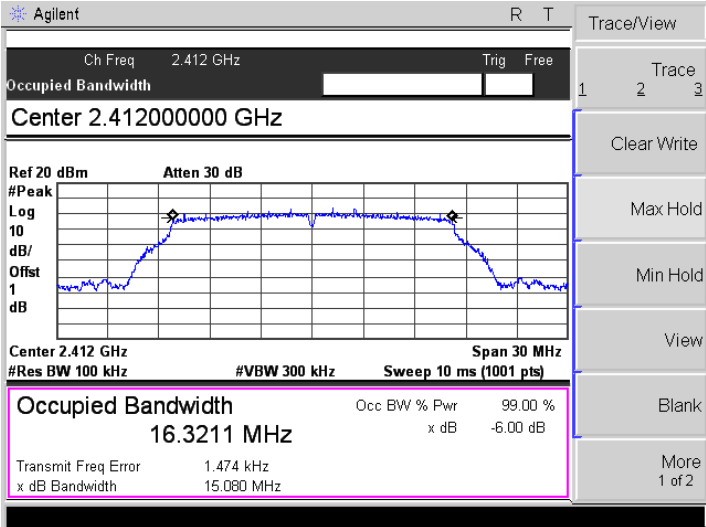
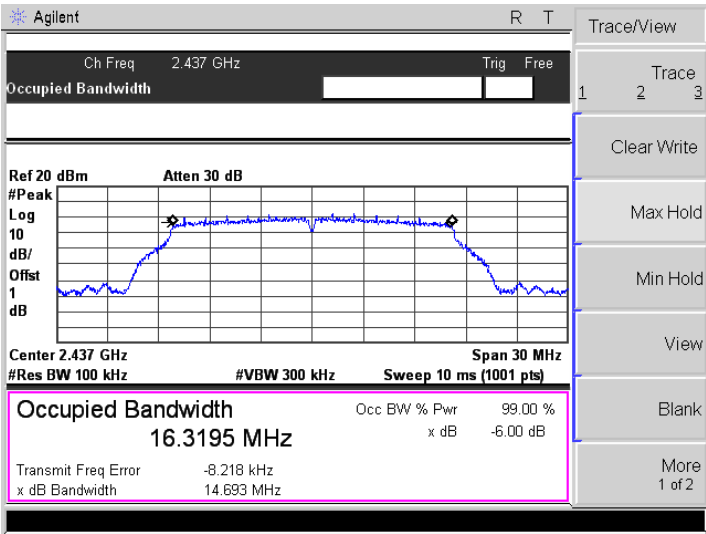
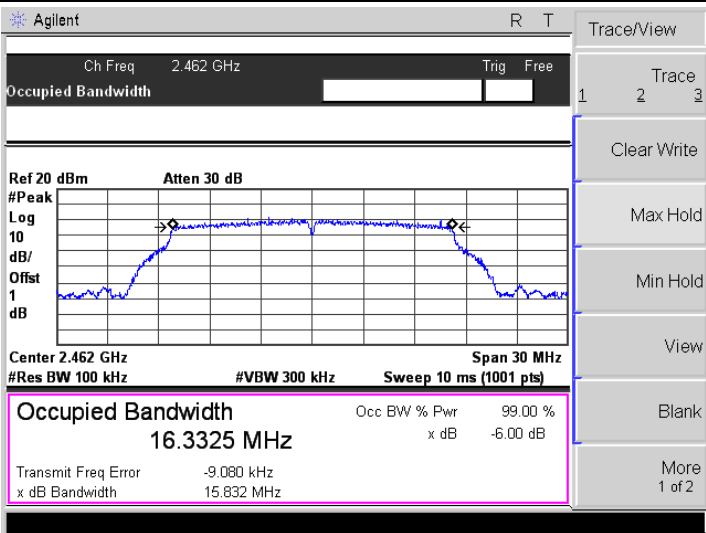
<p>802.11ax-HE40-Low</p>	 <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.41948 GHz -23.71 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.419480000 GHz -23.71 dBm Center 2.422 GHz Span 60 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts)</p>
<p>802.11ax-HE40-Middle</p>	 <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.44072 GHz -24.18 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.440720000 GHz -24.18 dBm Center 2.437 GHz Span 60 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts)</p>
<p>802.11ax-HE40-High</p>	 <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.45698 GHz -24.41 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.456980000 GHz -24.41 dBm Center 2.452 GHz Span 60 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts)</p>

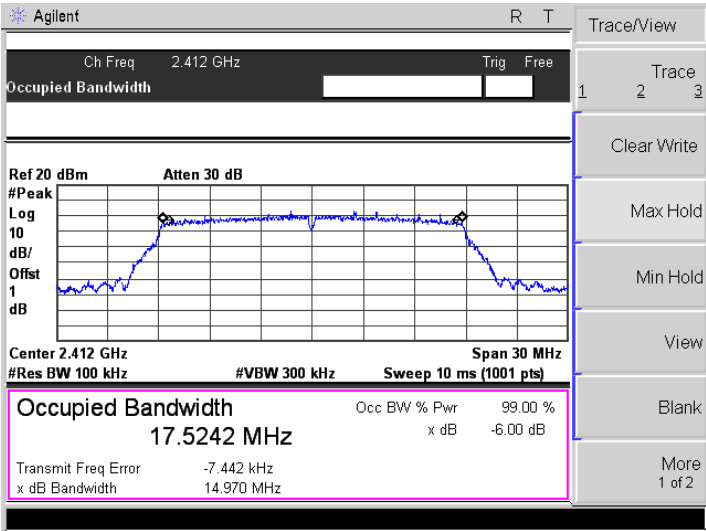
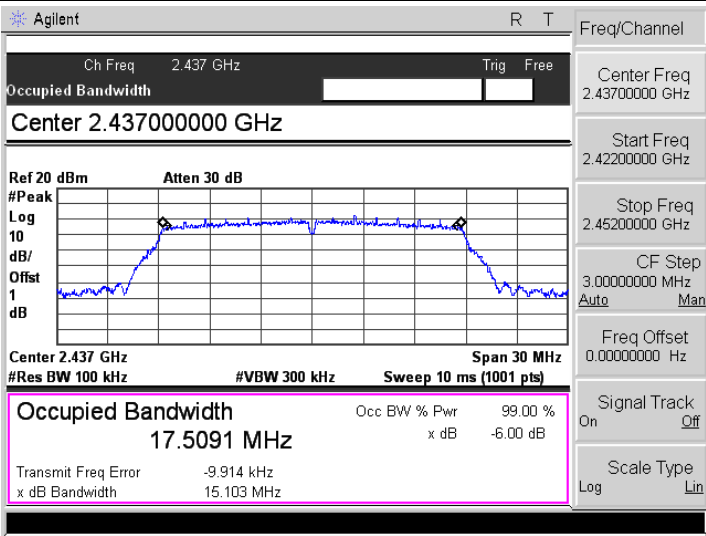
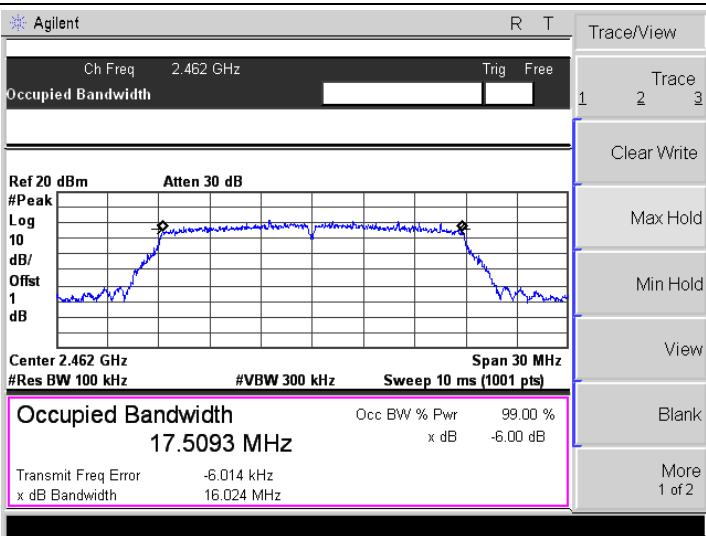
APPENDIX B

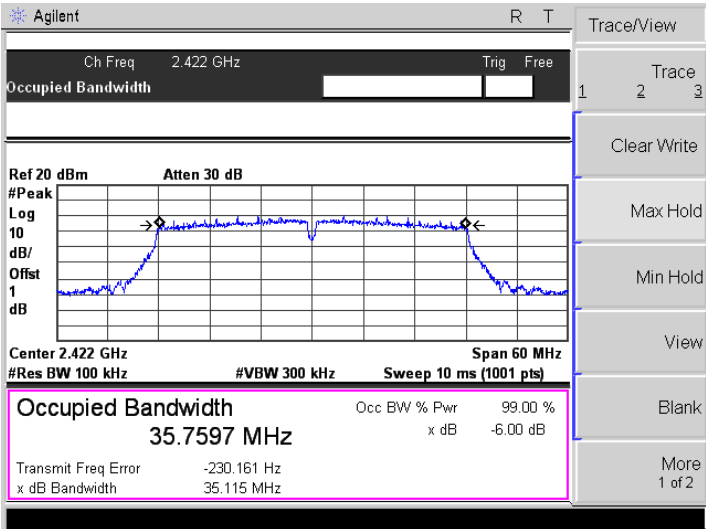
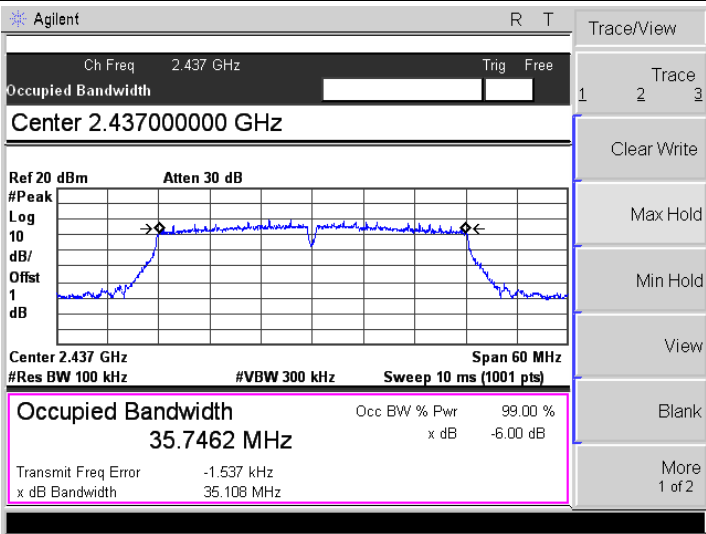
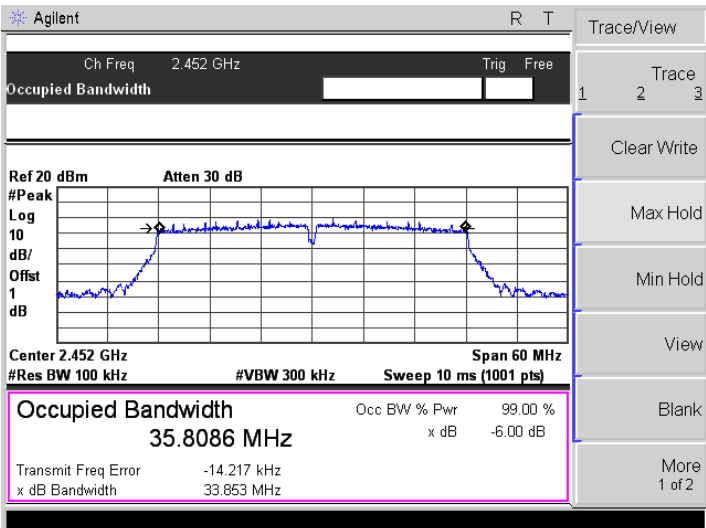
DTS Bandwidth				
Test Mode	Test Channel MHz	Test Result(MHz)		Limit kHz
		Antenna 1	Antenna 2	
802.11b_1Mbps	2412	8.061	8.048	≥500
	2437	8.024	8.065	≥500
	2462	8.050	7.577	≥500
802.11g_6Mbps	2412	15.080	15.690	≥500
	2437	14.693	15.445	≥500
	2462	15.832	15.266	≥500
802.11n-HT20_MCS0	2412	14.970	15.095	≥500
	2437	15.103	15.929	≥500
	2462	16.024	15.427	≥500
802.11n-HT40_MCS0	2422	35.115	35.090	≥500
	2437	35.108	35.130	≥500
	2452	33.853	31.393	≥500
802.11ax-HE20_MCS0	2412	14.970	18.557	≥500
	2437	15.103	17.835	≥500
	2462	16.024	17.835	≥500
802.11ax-HE40_MCS0	2422	35.115	36.113	≥500
	2437	35.108	35.143	≥500
	2452	33.853	37.527	≥500

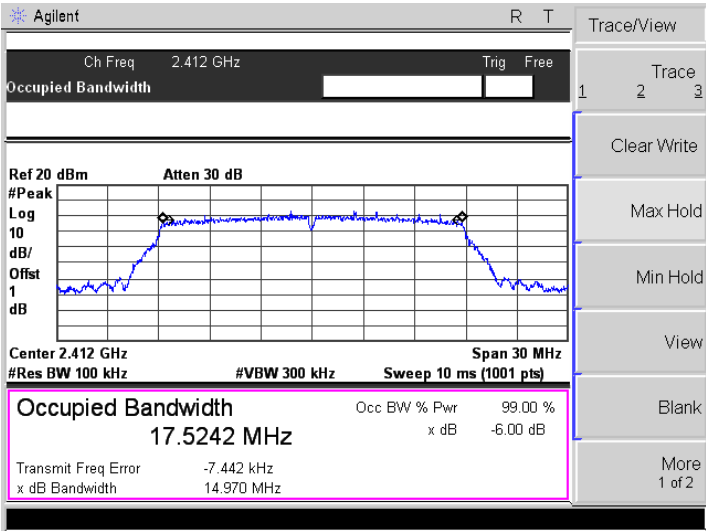
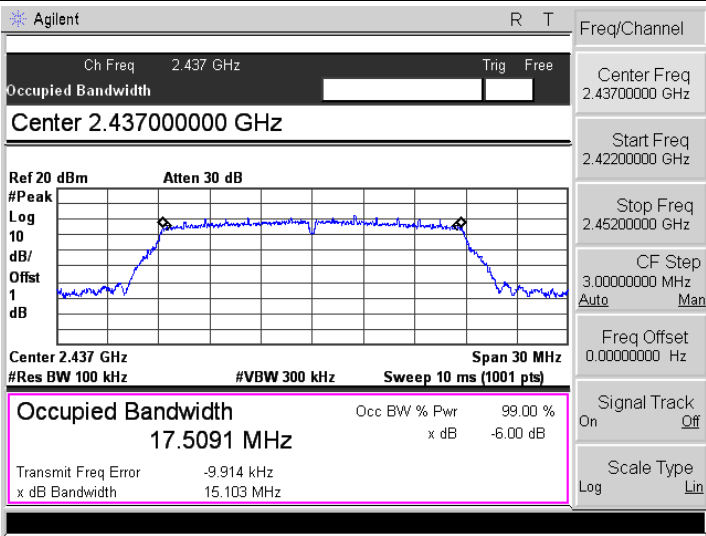
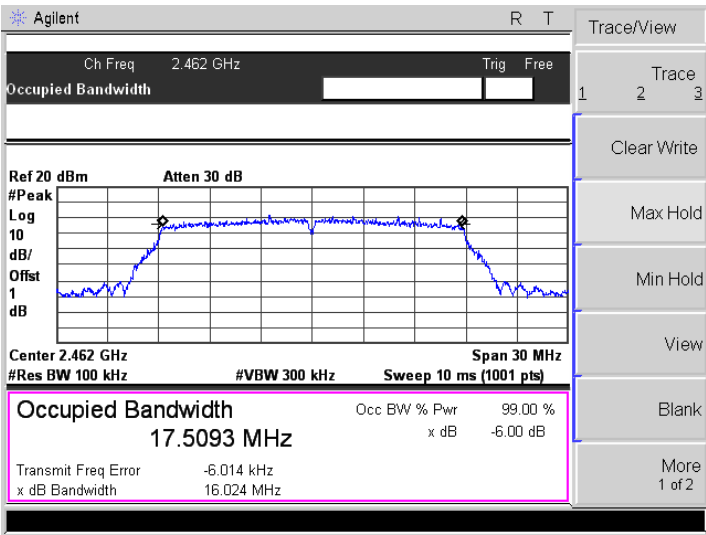
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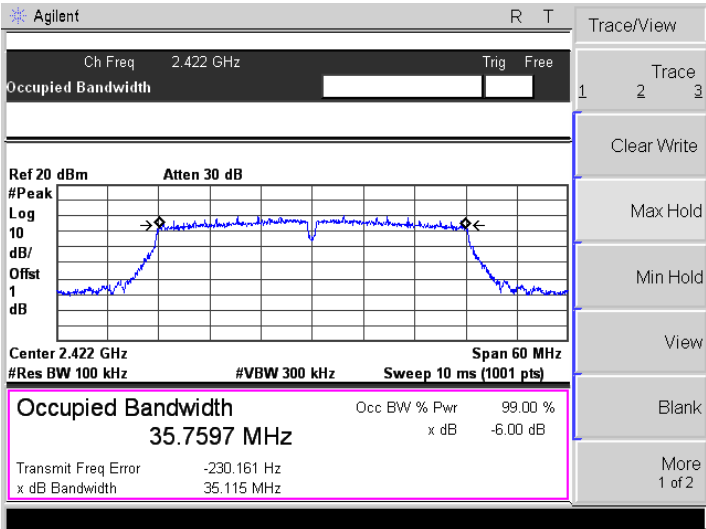
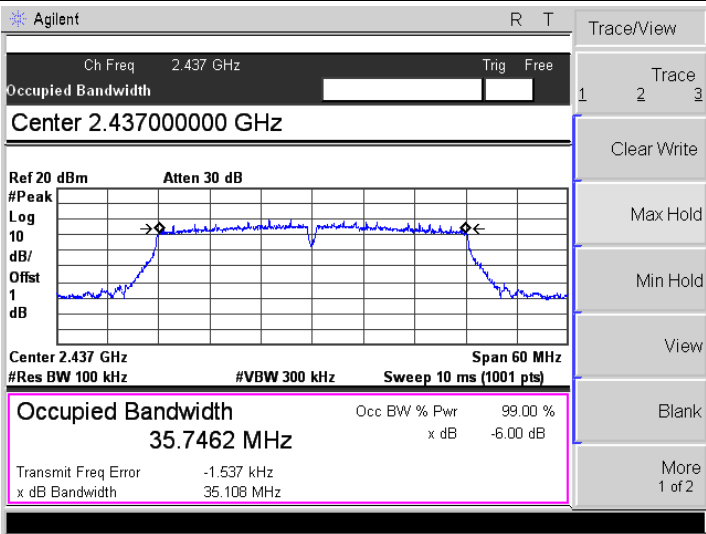
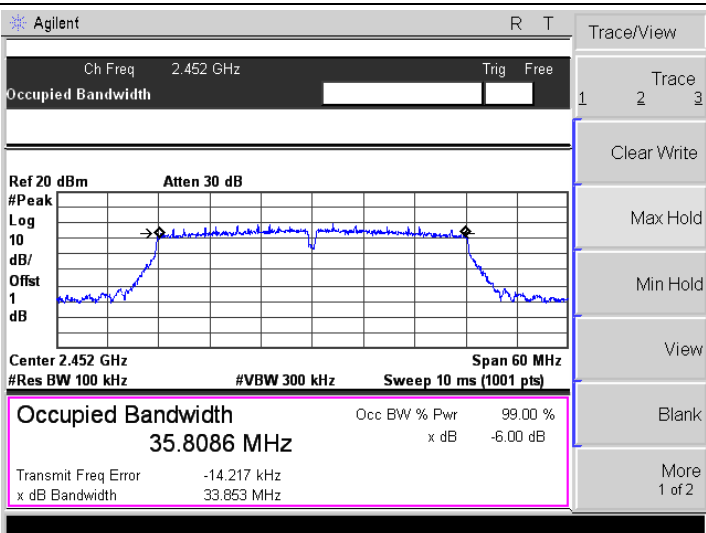
<p>802.11b-Low</p>	
<p>802.11b-Middle</p>	
<p>802.11b-High</p>	

<p>802.11g-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.41200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.3211 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 1.474 kHz</p> <p>x dB Bandwidth 15.080 MHz</p>
<p>802.11g-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.437 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.3195 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -8.218 kHz</p> <p>x dB Bandwidth 14.693 MHz</p>
<p>802.11g-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.462 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.3325 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -9.080 kHz</p> <p>x dB Bandwidth 15.832 MHz</p>

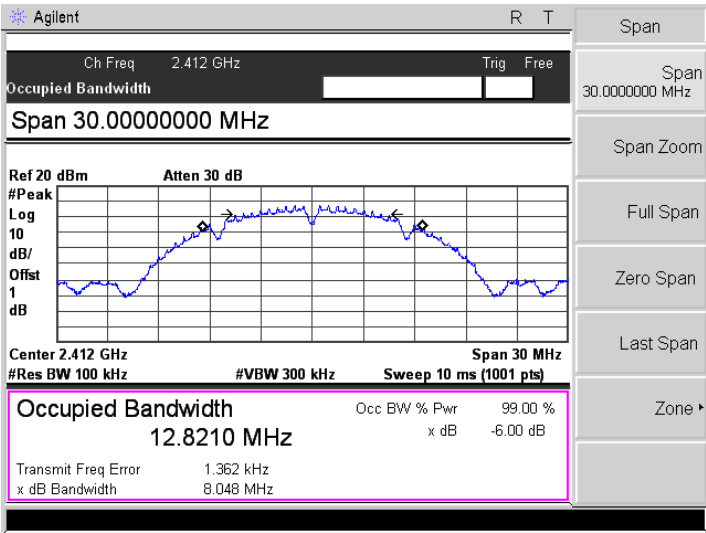
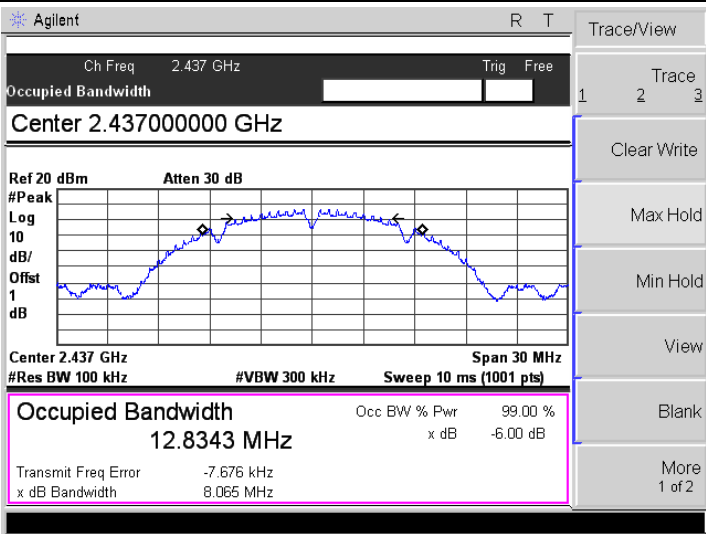
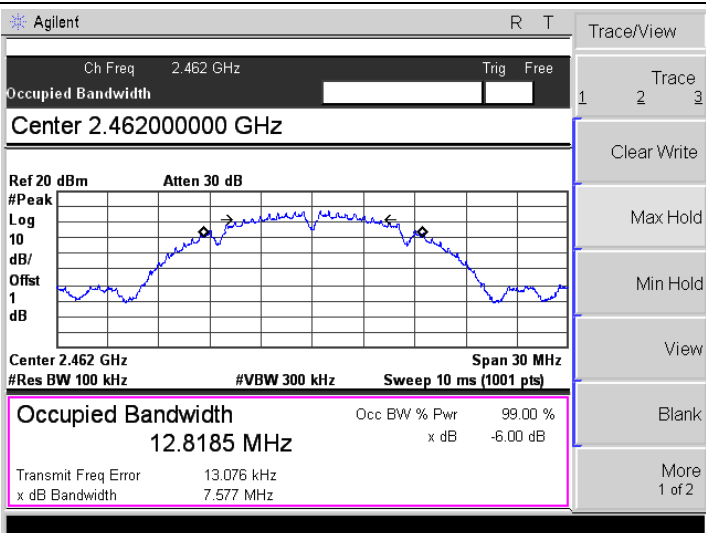
<p>802.11n-HT20-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5242 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -7.442 kHz x dB Bandwidth 14.970 MHz</p> <p>Trace/View: Trace 1 2 3, Clear Write, Max Hold, Min Hold, View, Blank, More 1 of 2</p>
<p>802.11n-HT20-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5091 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -9.914 kHz x dB Bandwidth 15.103 MHz</p> <p>Freq/Channel: Center Freq 2.43700000 GHz, Start Freq 2.42200000 GHz, Stop Freq 2.45200000 GHz, CF Step 3.00000000 MHz, Freq Offset 0.00000000 Hz, Signal Track On, Scale Type Log</p>
<p>802.11n-HT20-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5093 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -6.014 kHz x dB Bandwidth 16.024 MHz</p> <p>Trace/View: Trace 1 2 3, Clear Write, Max Hold, Min Hold, View, Blank, More 1 of 2</p>

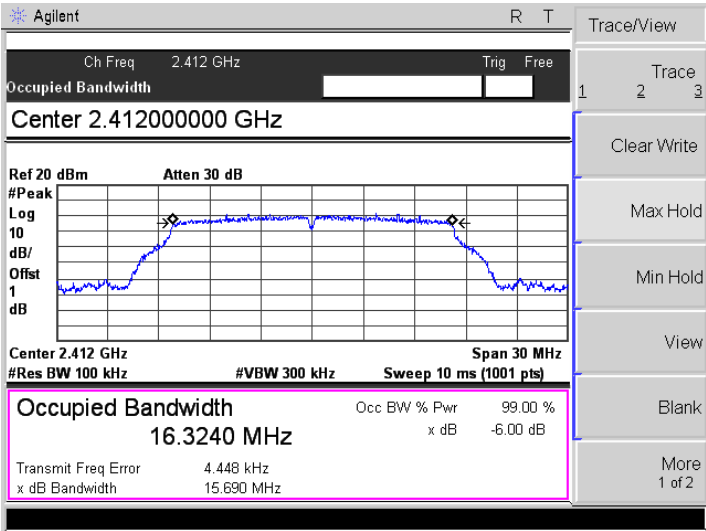
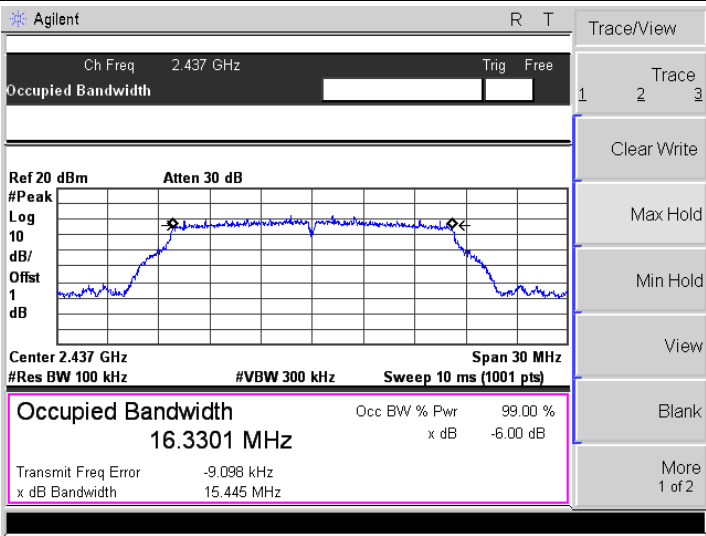
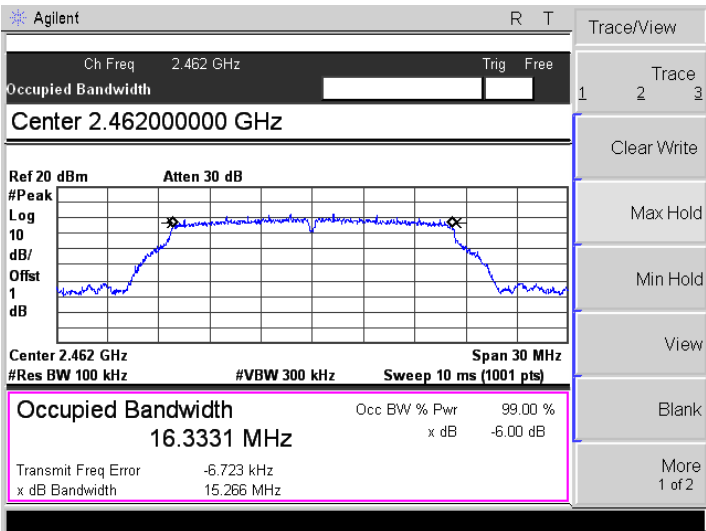
<p>802.11n-HT40-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.422 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 35.7597 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -230.161 Hz</p> <p>x dB Bandwidth 35.115 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 35.7462 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -1.537 kHz</p> <p>x dB Bandwidth 35.108 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 35.8086 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -14.217 kHz</p> <p>x dB Bandwidth 33.853 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

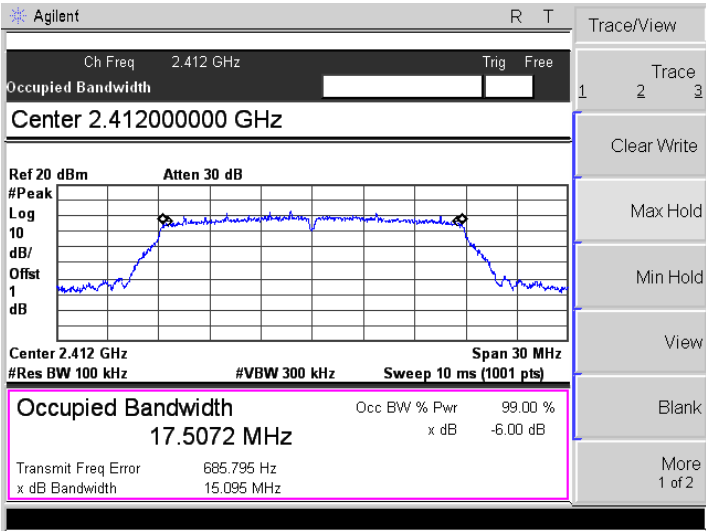
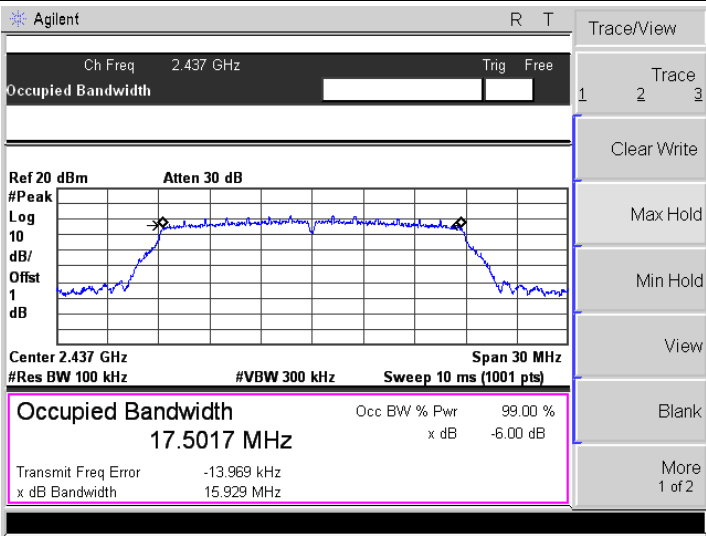
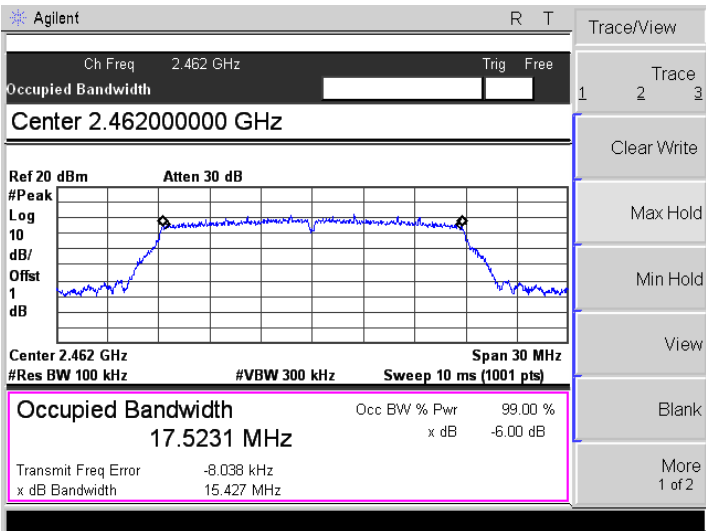
<p>802.11ax-HE20-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5242 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -7.442 kHz</p> <p>x dB Bandwidth 14.970 MHz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11ax-HE20-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5091 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -9.914 kHz</p> <p>x dB Bandwidth 15.103 MHz</p> <p>Freq/Channel</p> <p>Center Freq 2.43700000 GHz</p> <p>Start Freq 2.42200000 GHz</p> <p>Stop Freq 2.45200000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
<p>802.11ax-HE20-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5093 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -6.014 kHz</p> <p>x dB Bandwidth 16.024 MHz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

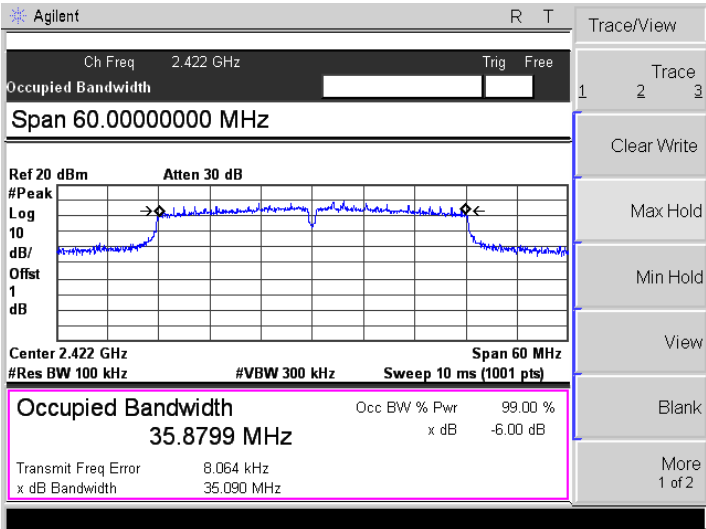
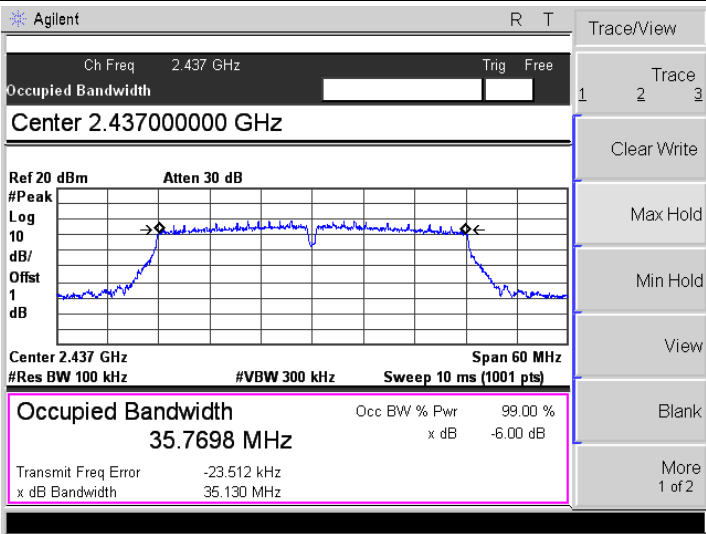
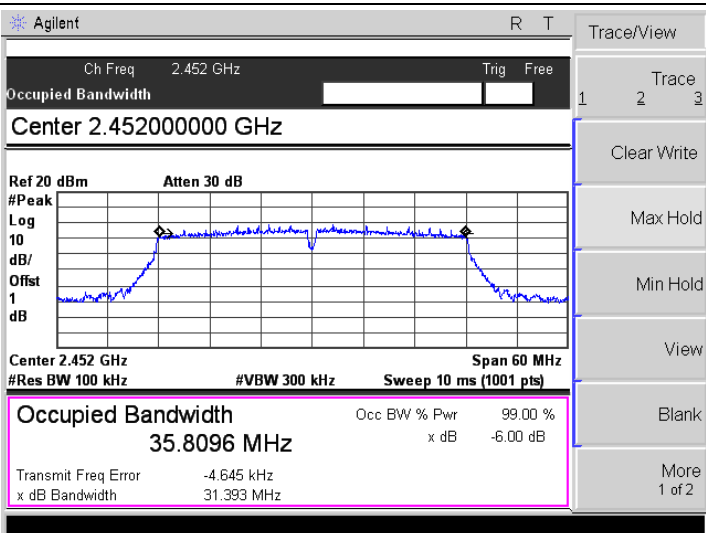
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<p>802.11ax-HE40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 35.7462 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -1.537 kHz</p> <p>x dB Bandwidth 35.108 MHz</p>
<p>802.11ax-HE40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 35.8086 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -14.217 kHz</p> <p>x dB Bandwidth 33.853 MHz</p>

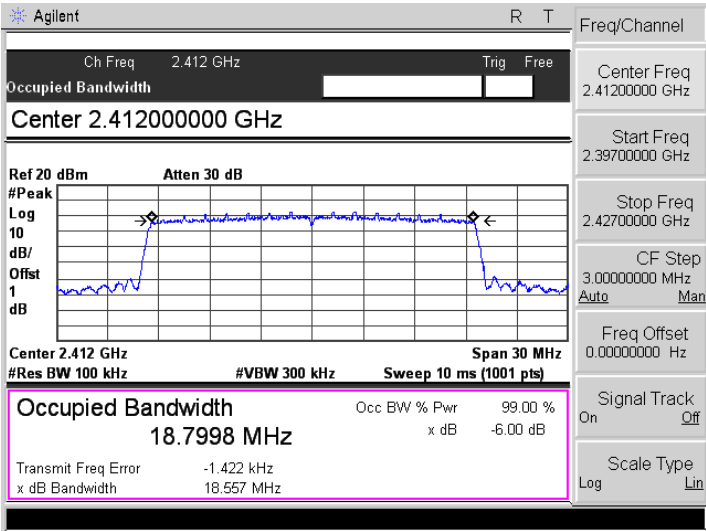
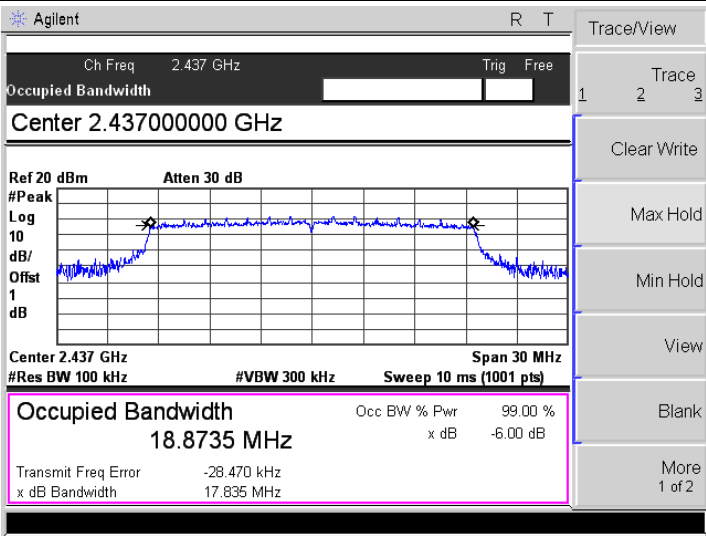
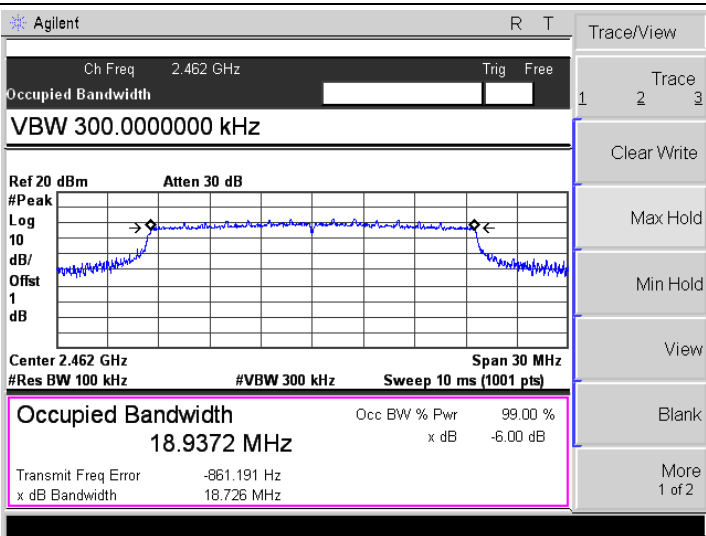
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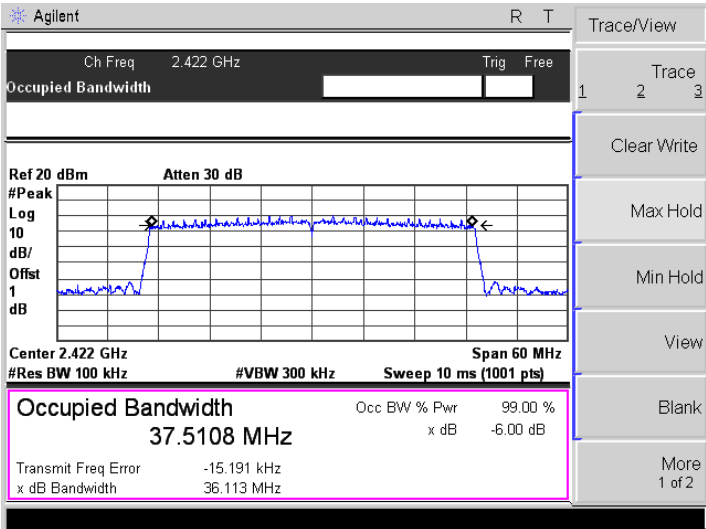
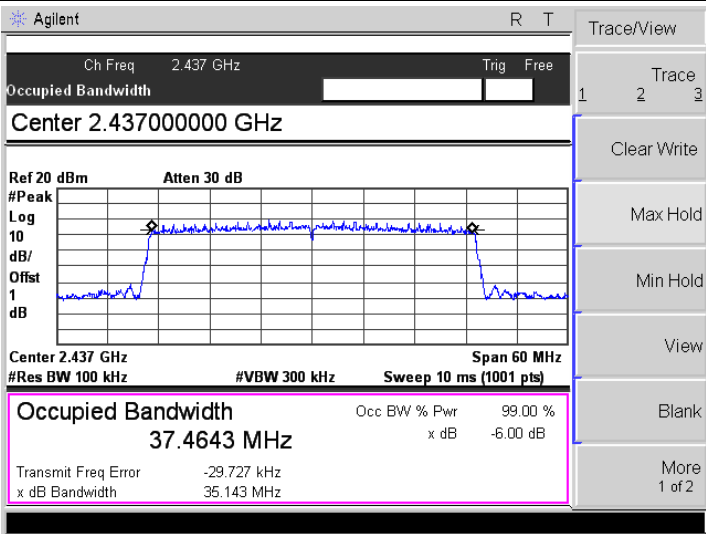
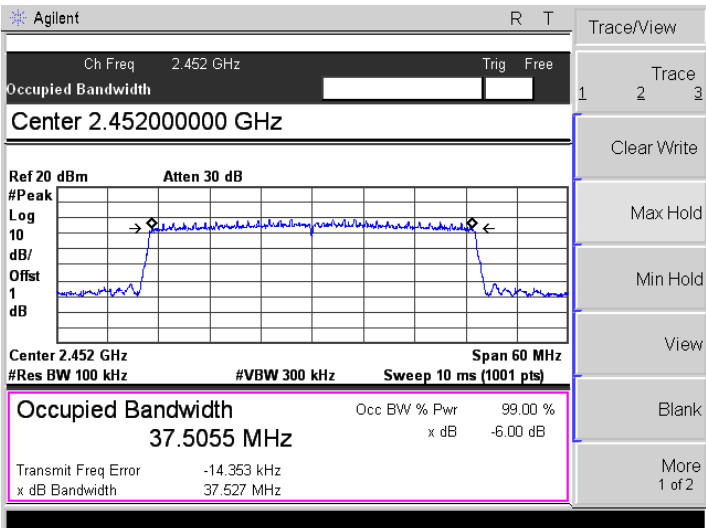
<p>802.11b-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Span 30.0000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 12.8210 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 1.362 kHz x dB Bandwidth 8.048 MHz</p>
<p>802.11b-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 12.8343 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -7.676 kHz x dB Bandwidth 8.065 MHz</p>
<p>802.11b-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.46200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 12.8185 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 13.076 kHz x dB Bandwidth 7.577 MHz</p>

<p>802.11g-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.41200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.3240 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 4.448 kHz</p> <p>x dB Bandwidth 15.690 MHz</p>
<p>802.11g-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.3301 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -9.098 kHz</p> <p>x dB Bandwidth 15.445 MHz</p>
<p>802.11g-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.46200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.3331 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -6.723 kHz</p> <p>x dB Bandwidth 15.266 MHz</p>

<p>802.11n-HT20-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.41200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5072 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 685.795 Hz</p> <p>x dB Bandwidth 15.095 MHz</p>
<p>802.11n-HT20-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.437 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5017 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -13.969 kHz</p> <p>x dB Bandwidth 15.929 MHz</p>
<p>802.11n-HT20-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.46200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.5231 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -8.038 kHz</p> <p>x dB Bandwidth 15.427 MHz</p>

<p>802.11n-HT40-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Span 60.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/ Offst 1 dB</p> <p>Center 2.422 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td>35.8799 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td colspan="2">8.064 kHz</td> </tr> <tr> <td>x dB Bandwidth</td> <td colspan="2">35.090 MHz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>	Occupied Bandwidth	Occ BW % Pwr	99.00 %	35.8799 MHz	x dB	-6.00 dB	Transmit Freq Error	8.064 kHz		x dB Bandwidth	35.090 MHz	
Occupied Bandwidth	Occ BW % Pwr	99.00 %											
35.8799 MHz	x dB	-6.00 dB											
Transmit Freq Error	8.064 kHz												
x dB Bandwidth	35.090 MHz												
<p>802.11n-HT40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td>35.7698 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td colspan="2">-23.512 kHz</td> </tr> <tr> <td>x dB Bandwidth</td> <td colspan="2">35.130 MHz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>	Occupied Bandwidth	Occ BW % Pwr	99.00 %	35.7698 MHz	x dB	-6.00 dB	Transmit Freq Error	-23.512 kHz		x dB Bandwidth	35.130 MHz	
Occupied Bandwidth	Occ BW % Pwr	99.00 %											
35.7698 MHz	x dB	-6.00 dB											
Transmit Freq Error	-23.512 kHz												
x dB Bandwidth	35.130 MHz												
<p>802.11n-HT40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.45200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/ Offst 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td>35.8096 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td colspan="2">-4.645 kHz</td> </tr> <tr> <td>x dB Bandwidth</td> <td colspan="2">31.393 MHz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>	Occupied Bandwidth	Occ BW % Pwr	99.00 %	35.8096 MHz	x dB	-6.00 dB	Transmit Freq Error	-4.645 kHz		x dB Bandwidth	31.393 MHz	
Occupied Bandwidth	Occ BW % Pwr	99.00 %											
35.8096 MHz	x dB	-6.00 dB											
Transmit Freq Error	-4.645 kHz												
x dB Bandwidth	31.393 MHz												

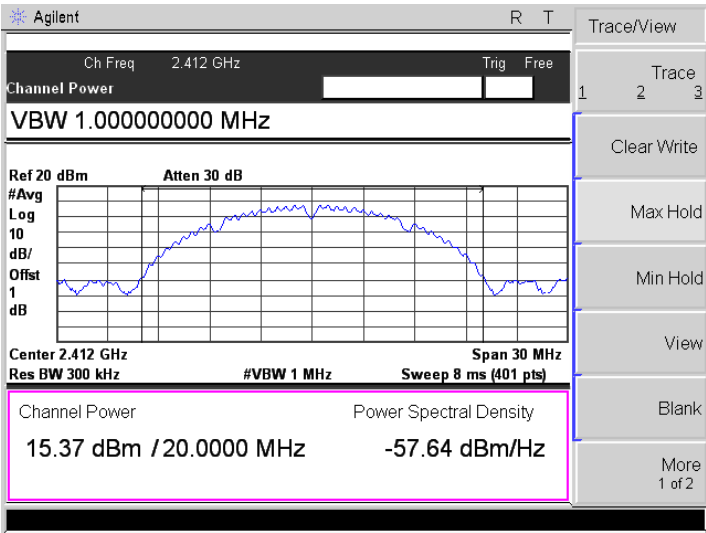
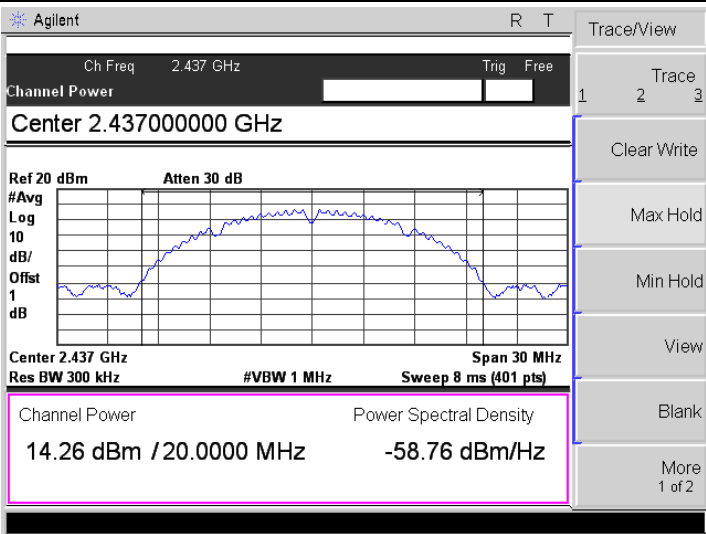
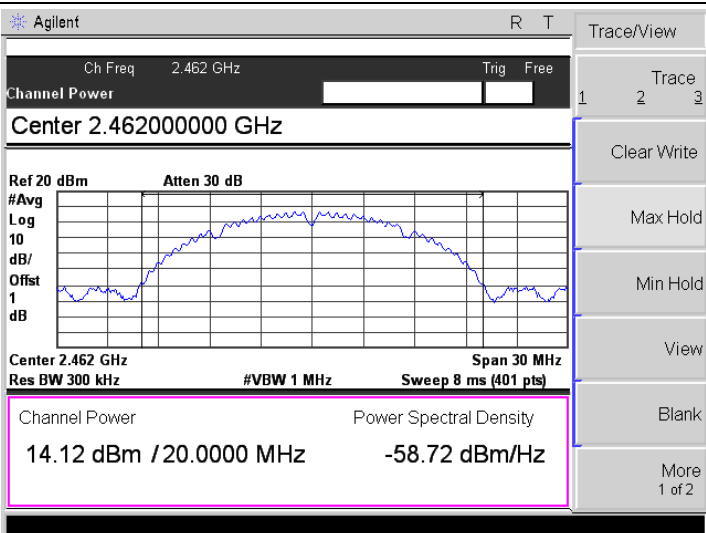
<p>802.11ax-HE20-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.41200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10</p> <p>dB/</p> <p>Offst 1</p> <p>dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.7998 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -6.00 dB</p> <p>Transmit Freq Error -1.422 kHz</p> <p>x dB Bandwidth 18.557 MHz</p> <p>Freq/Channel</p> <p>Center Freq 2.41200000 GHz</p> <p>Start Freq 2.39700000 GHz</p> <p>Stop Freq 2.42700000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
<p>802.11ax-HE20-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10</p> <p>dB/</p> <p>Offst 1</p> <p>dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.8735 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -6.00 dB</p> <p>Transmit Freq Error -28.470 kHz</p> <p>x dB Bandwidth 17.835 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11ax-HE20-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>VBW 300.0000000 kHz</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.9372 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -6.00 dB</p> <p>Transmit Freq Error -861.191 Hz</p> <p>x dB Bandwidth 18.726 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

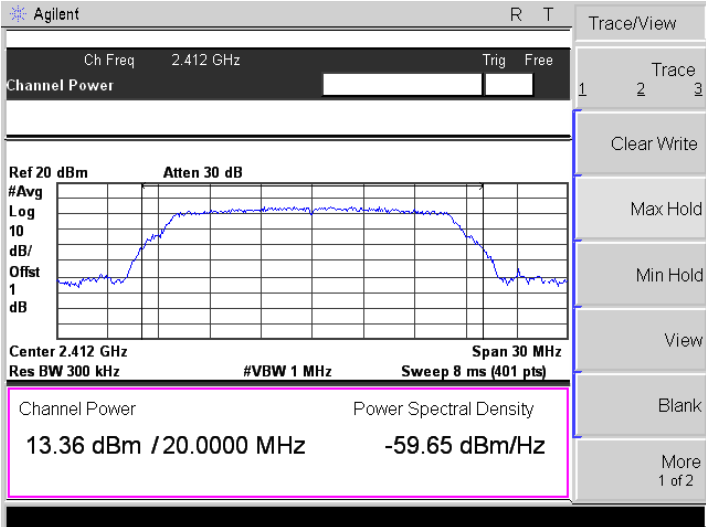
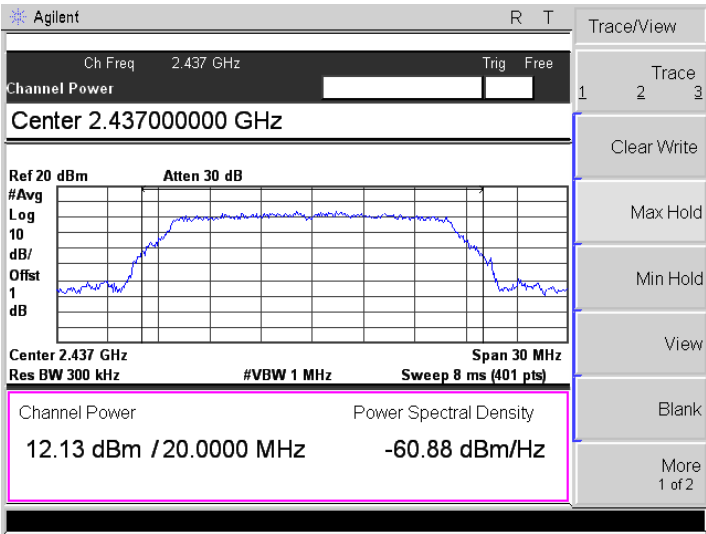
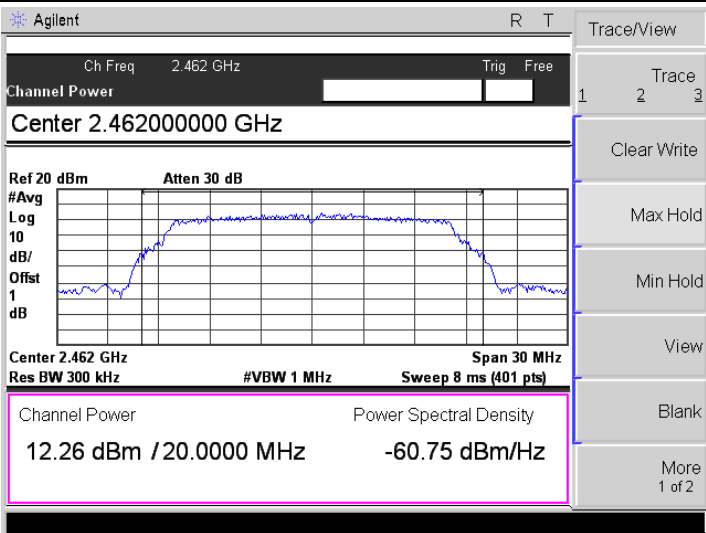
<p>802.11ax-HE40-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.422 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 37.5108 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -15.191 kHz</p> <p>x dB Bandwidth 36.113 MHz</p> <p>Trace/View: Trace 1 2 3, Clear Write, Max Hold, Min Hold, View, Blank, More 1 of 2</p>
<p>802.11ax-HE40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 37.4643 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -29.727 kHz</p> <p>x dB Bandwidth 35.143 MHz</p> <p>Trace/View: Trace 1 2 3, Clear Write, Max Hold, Min Hold, View, Blank, More 1 of 2</p>
<p>802.11ax-HE40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 2.45200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 37.5055 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -14.353 kHz</p> <p>x dB Bandwidth 37.527 MHz</p> <p>Trace/View: Trace 1 2 3, Clear Write, Max Hold, Min Hold, View, Blank, More 1 of 2</p>

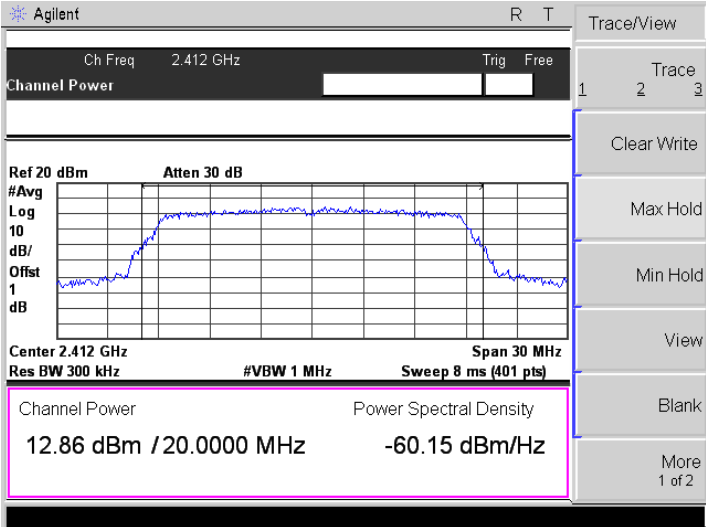
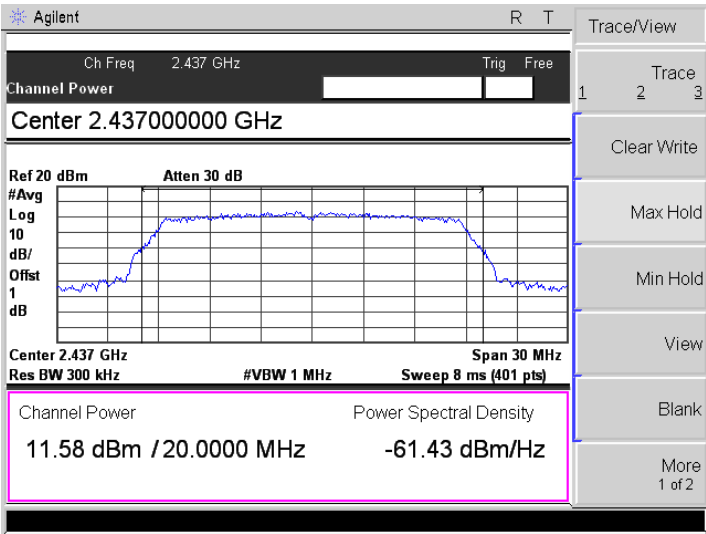
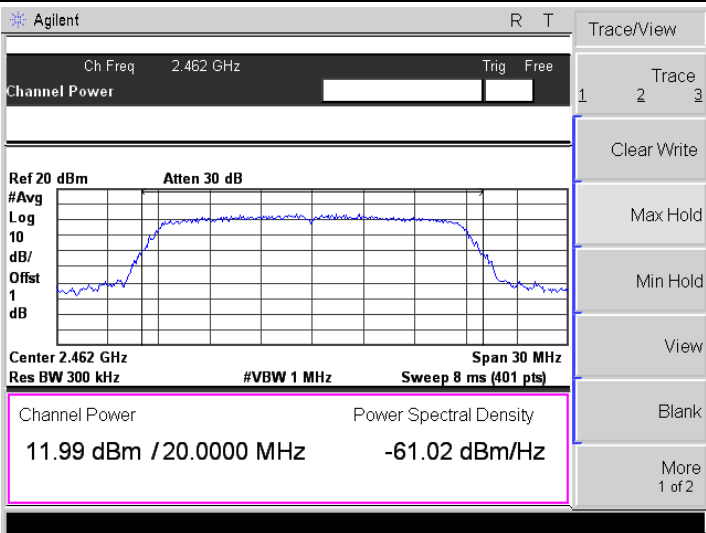
APPENDIX C

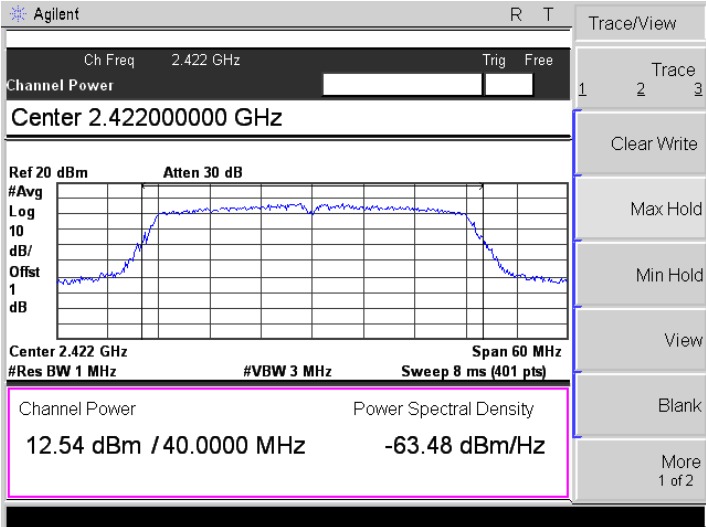
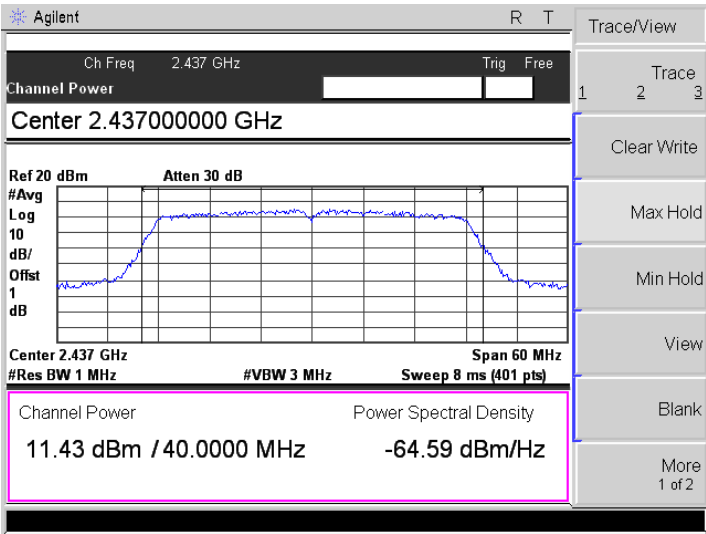
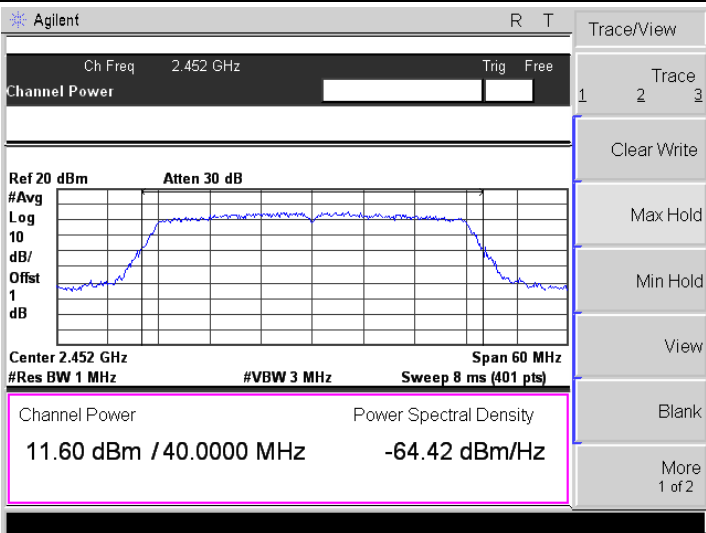
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	2437	14.26	14.96	/	29.32
	2462	14.12	15.19	/	29.32
802.11g_6Mbps	2412	13.36	12.93	/	29.32
	2437	12.13	12.38	/	29.32
	2462	12.26	12.05	/	29.32
802.11n HT20_MCS0	2412	12.86	12.59	15.74	29.32
	2437	11.58	11.80	14.70	29.32
	2462	11.99	12.75	15.40	29.32
802.11n HT40_MCS0	2422	12.54	11.37	15.00	29.32
	2437	11.43	10.81	14.14	29.32
	2452	11.60	10.76	14.21	29.32
802.11ax-HE20_MCS0	2412	13.37	12.64	16.03	29.32
	2437	12.29	11.92	15.12	29.32
	2462	12.80	12.10	15.47	29.32
802.11ax-HE80_MCS0	2422	12.34	11.76	15.74	29.32
	2437	11.22	11.26	14.70	29.32
	2452	11.44	11.06	15.40	29.32

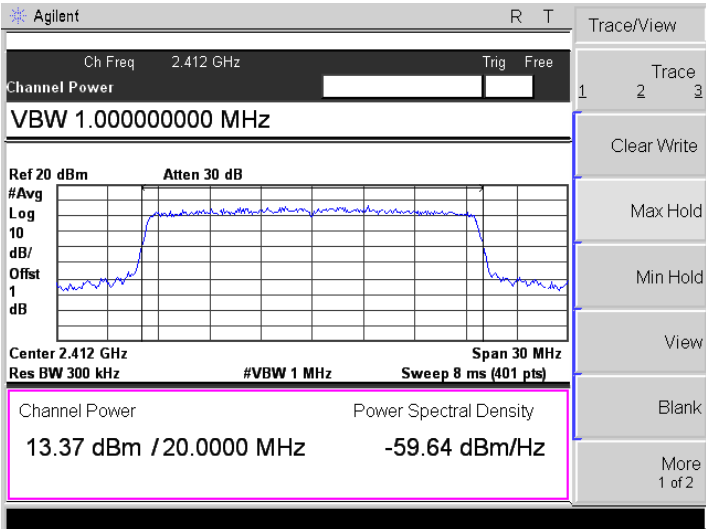
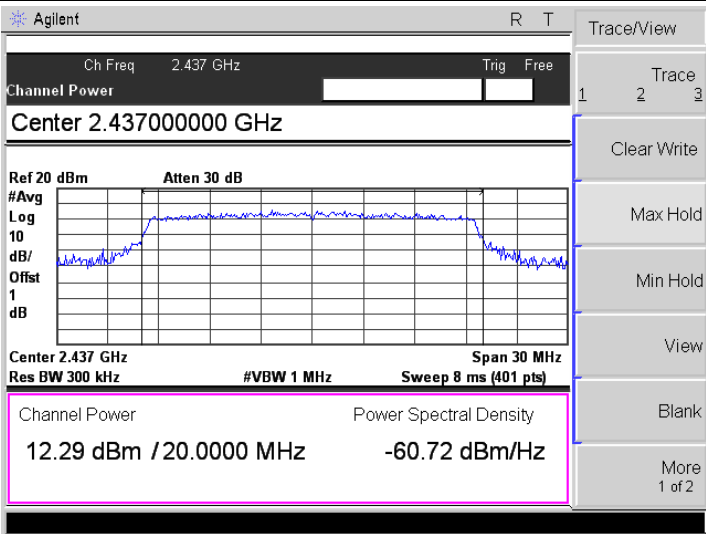
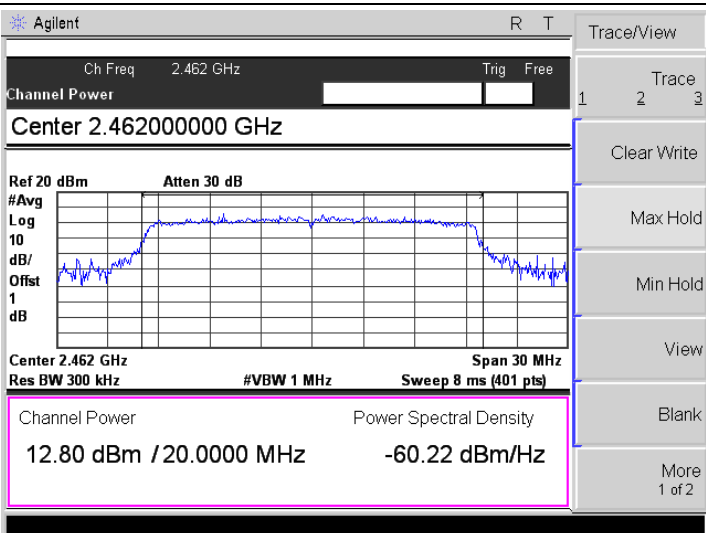
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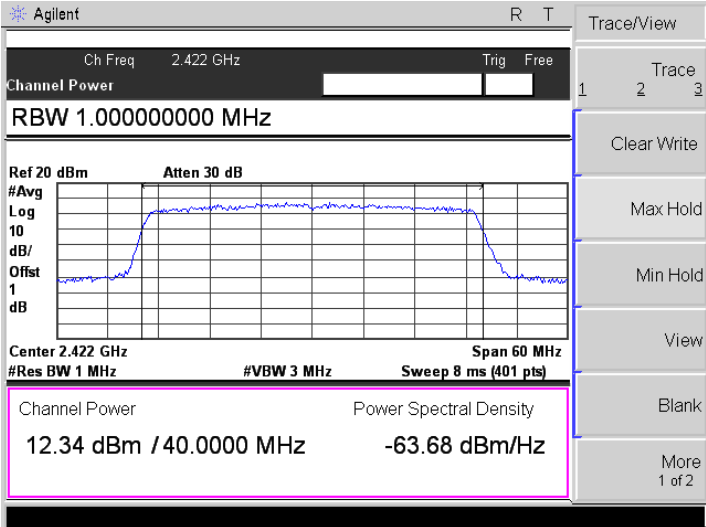
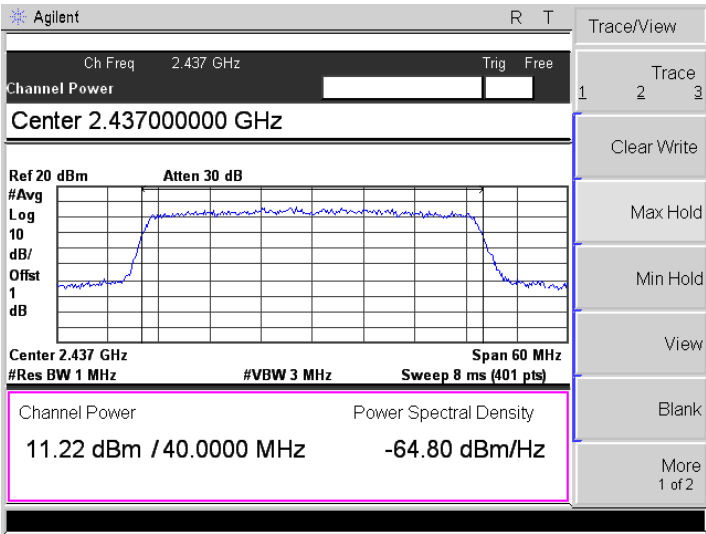
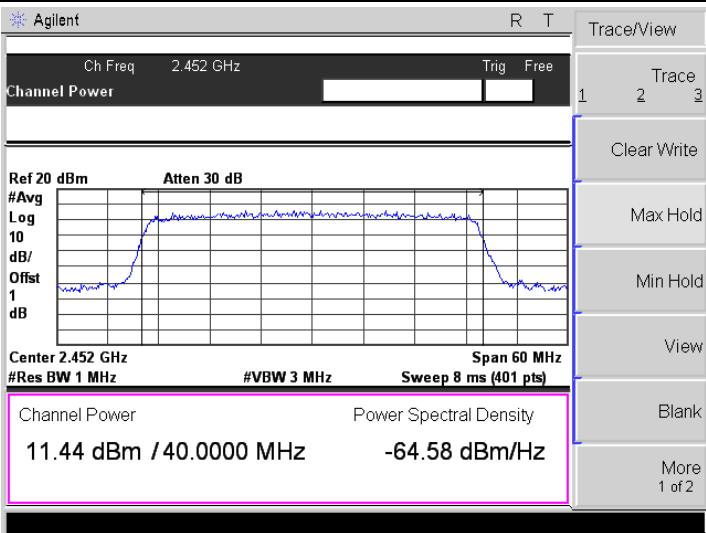
<p>802.11b-Low</p>	 <p>Agilent R T Trace/View</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Channel Power</p> <p>VBW 1.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>15.37 dBm / 20.0000 MHz -57.64 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11b-Middle</p>	 <p>Agilent R T Trace/View</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>14.26 dBm / 20.0000 MHz -58.76 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11b-High</p>	 <p>Agilent R T Trace/View</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.46200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>14.12 dBm / 20.0000 MHz -58.72 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

<p>802.11g-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>13.36 dBm / 20.0000 MHz -59.65 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11g-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.13 dBm / 20.0000 MHz -60.88 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11g-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.46200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.26 dBm / 20.0000 MHz -60.75 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

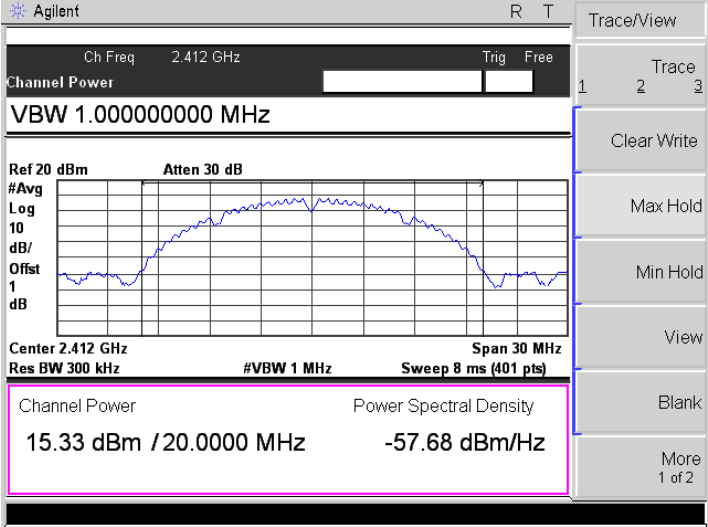
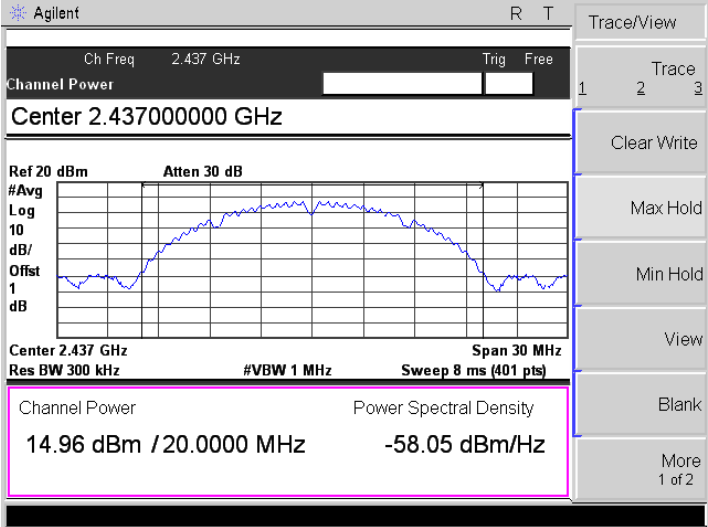
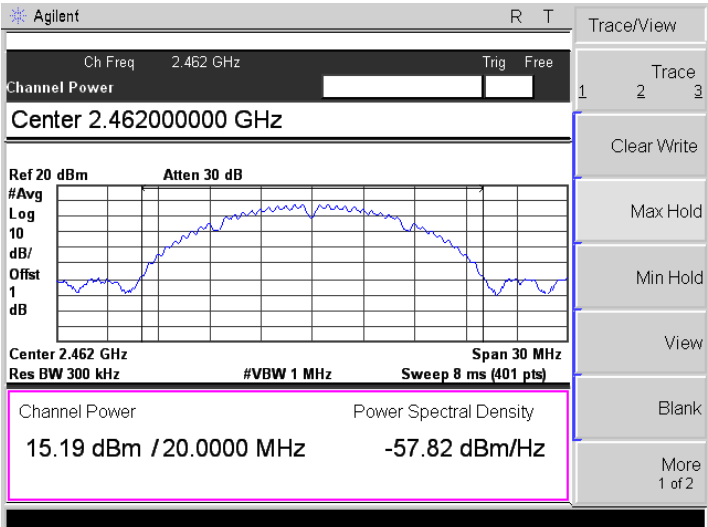
<p>802.11n-HT20-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.86 dBm / 20.0000 MHz -60.15 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT20-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.58 dBm / 20.0000 MHz -61.43 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT20-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.99 dBm / 20.0000 MHz -61.02 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

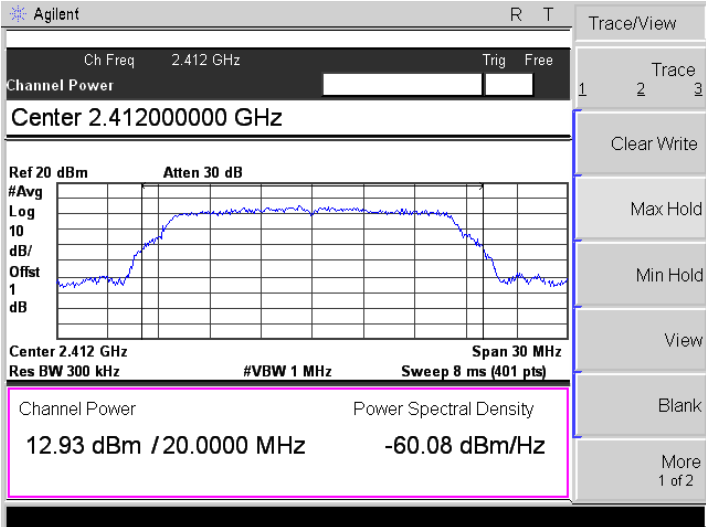
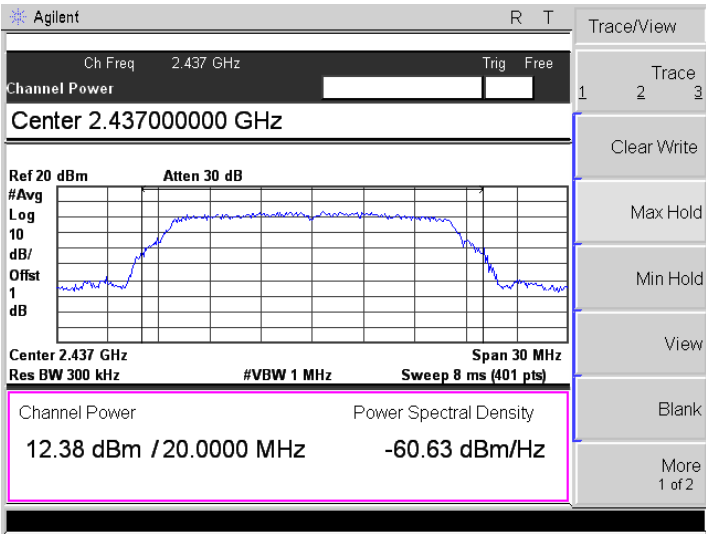
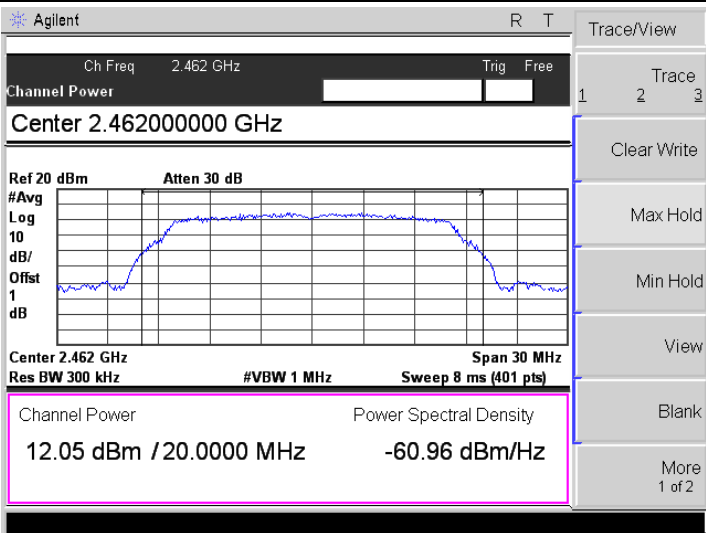
<p>802.11n-HT40-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.42200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.422 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.54 dBm / 40.0000 MHz -63.48 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.43 dBm / 40.0000 MHz -64.59 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.45200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.60 dBm / 40.0000 MHz -64.42 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

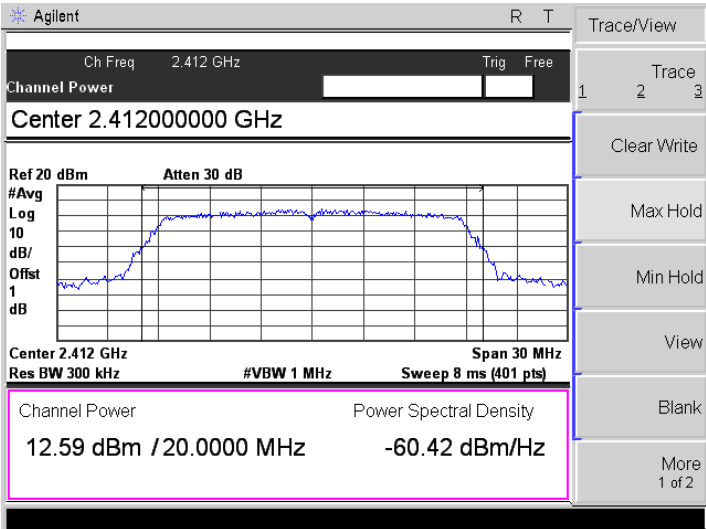
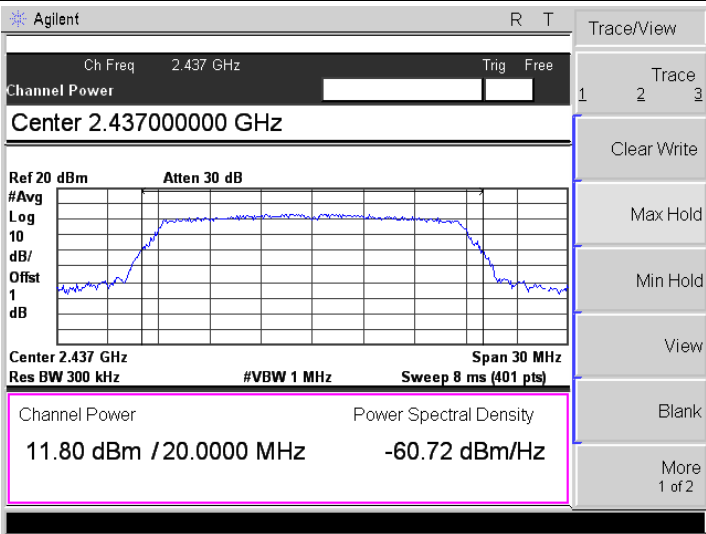
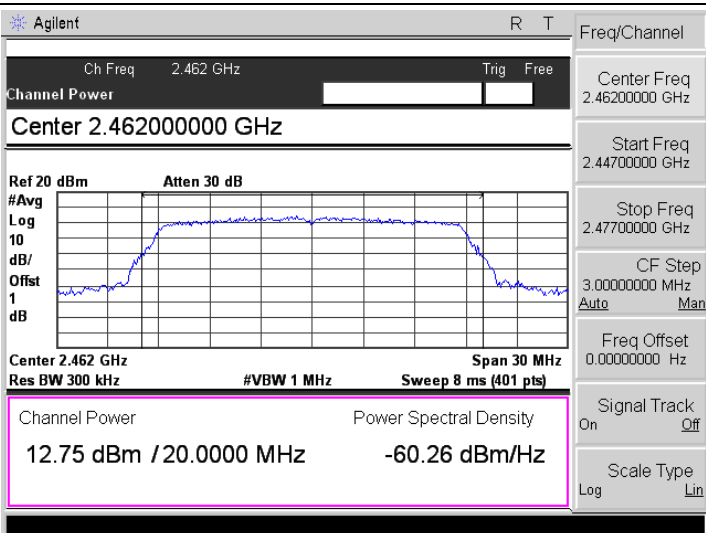
<p>802.11ax-HE20-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Channel Power</p> <p>VBW 1.000000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>13.37 dBm / 20.0000 MHz -59.64 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11ax-HE20-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.437000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.29 dBm / 20.0000 MHz -60.72 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11ax-HE20-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.462000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.80 dBm / 20.0000 MHz -60.22 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

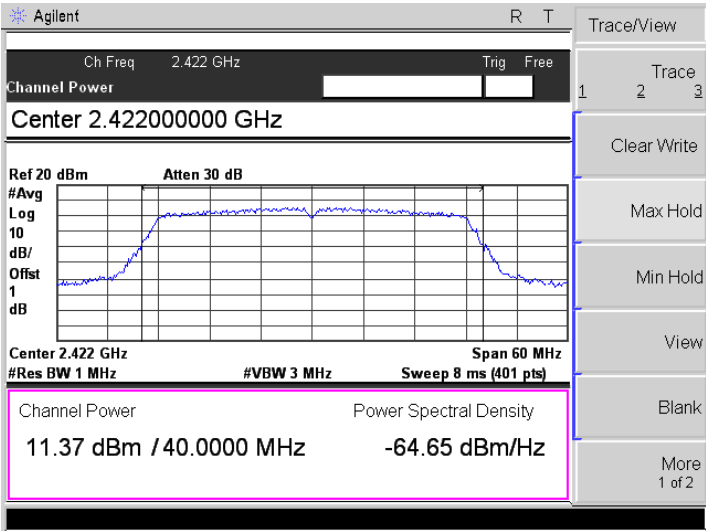
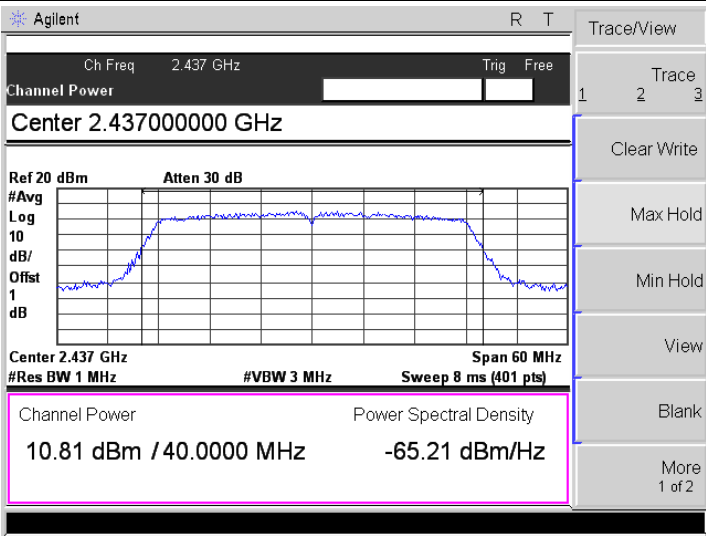
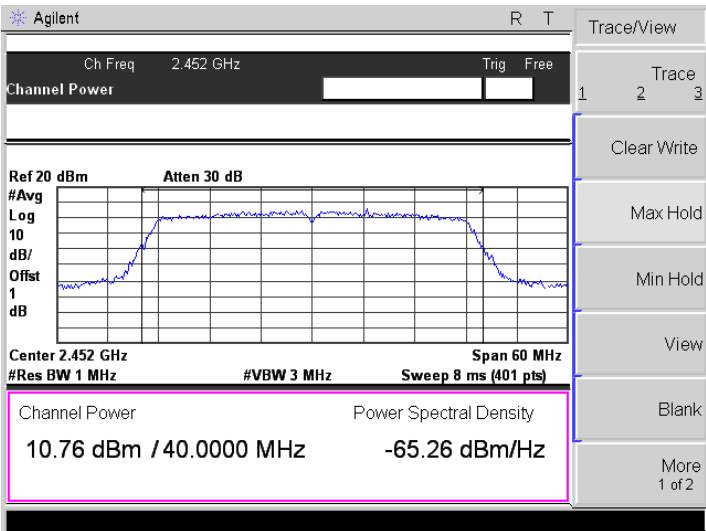
<p>802.11ax-HE40-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Channel Power</p> <p>RBW 1.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.422 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.34 dBm / 40.0000 MHz -63.68 dBm/Hz</p>
<p>802.11ax-HE40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.22 dBm / 40.0000 MHz -64.80 dBm/Hz</p>
<p>802.11ax-HE40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.44 dBm / 40.0000 MHz -64.58 dBm/Hz</p>

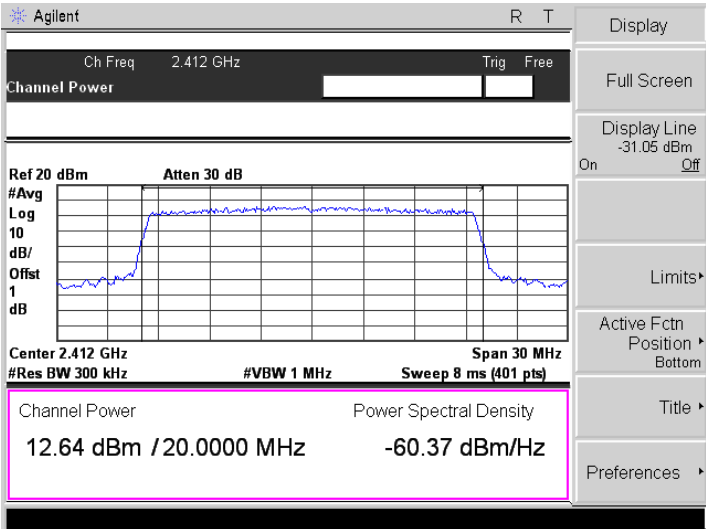
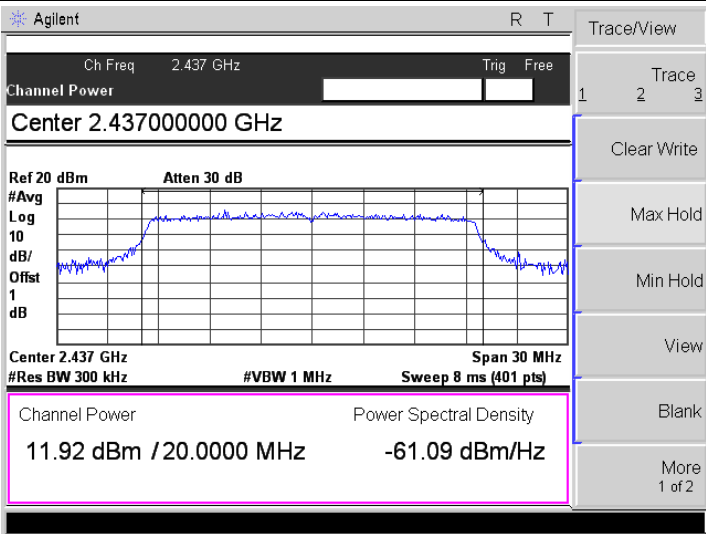
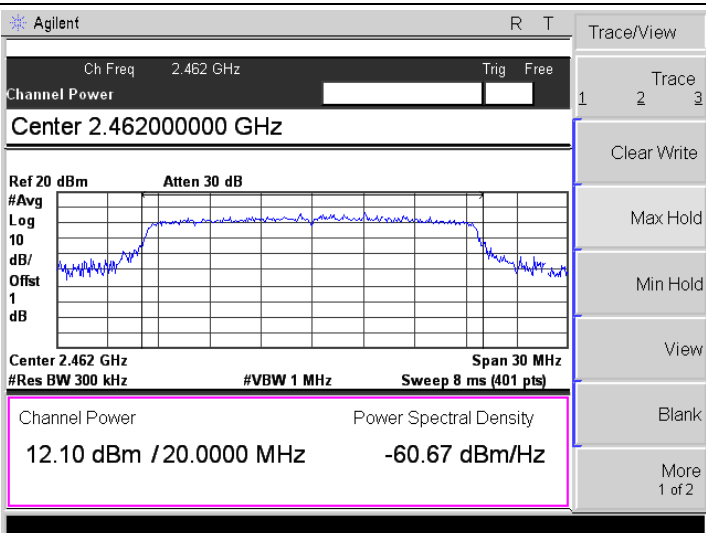
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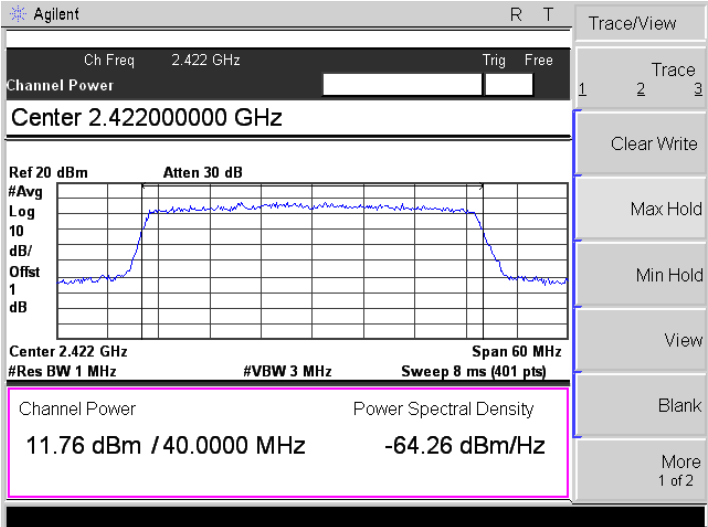
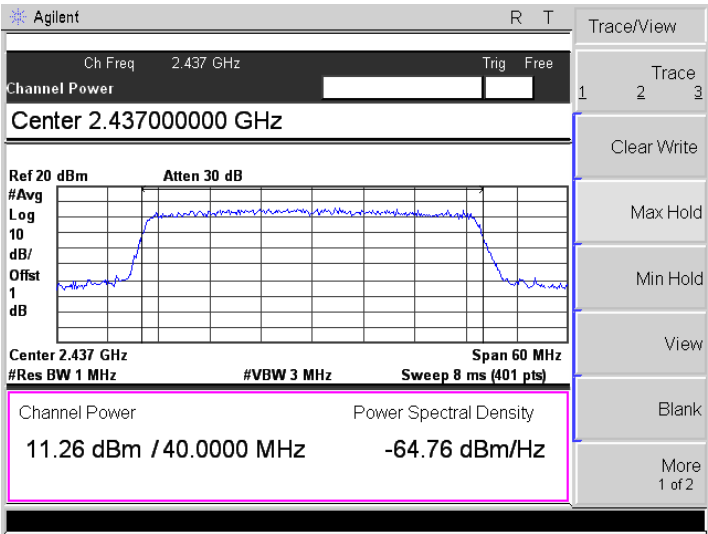
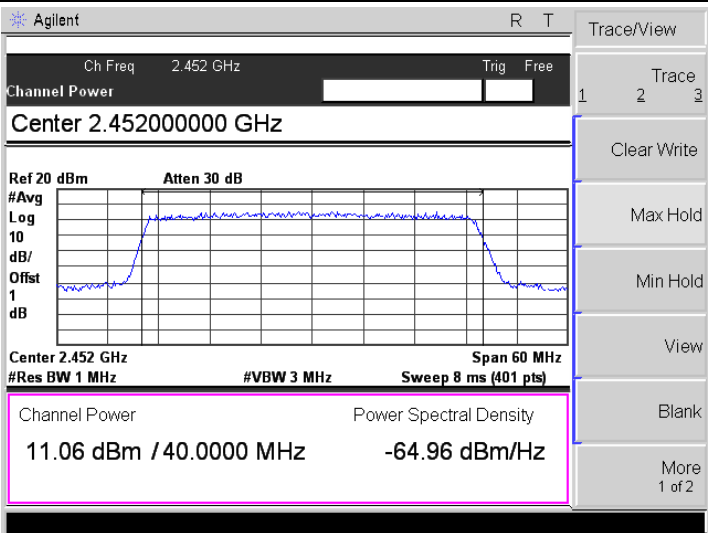
<p>802.11b-Low</p>	 <p>Agilent R T Trace/View</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Channel Power</p> <p>VBW 1.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log dB/ dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>15.33 dBm / 20.0000 MHz -57.68 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11b-Middle</p>	 <p>Agilent R T Trace/View</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log dB/ dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>14.96 dBm / 20.0000 MHz -58.05 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11b-High</p>	 <p>Agilent R T Trace/View</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.46200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log dB/ dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>15.19 dBm / 20.0000 MHz -57.82 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

<p>802.11g-Low</p>	
<p>802.11g-Middle</p>	
<p>802.11g-High</p>	

<p>802.11n-HT20-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.41200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.412 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.59 dBm / 20.0000 MHz -60.42 dBm/Hz</p> <p>Trace/View</p> <p>1 Trace 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT20-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.437 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.80 dBm / 20.0000 MHz -60.72 dBm/Hz</p> <p>Trace/View</p> <p>1 Trace 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT20-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.46200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 2.462 GHz Span 30 MHz</p> <p>Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>12.75 dBm / 20.0000 MHz -60.26 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 2.46200000 GHz</p> <p>Start Freq 2.44700000 GHz</p> <p>Stop Freq 2.47700000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>

<p>802.11n-HT40-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.42200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.422 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.37 dBm / 40.0000 MHz -64.65 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.81 dBm / 40.0000 MHz -65.21 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>
<p>802.11n-HT40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.45200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>10.76 dBm / 40.0000 MHz -65.26 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p>

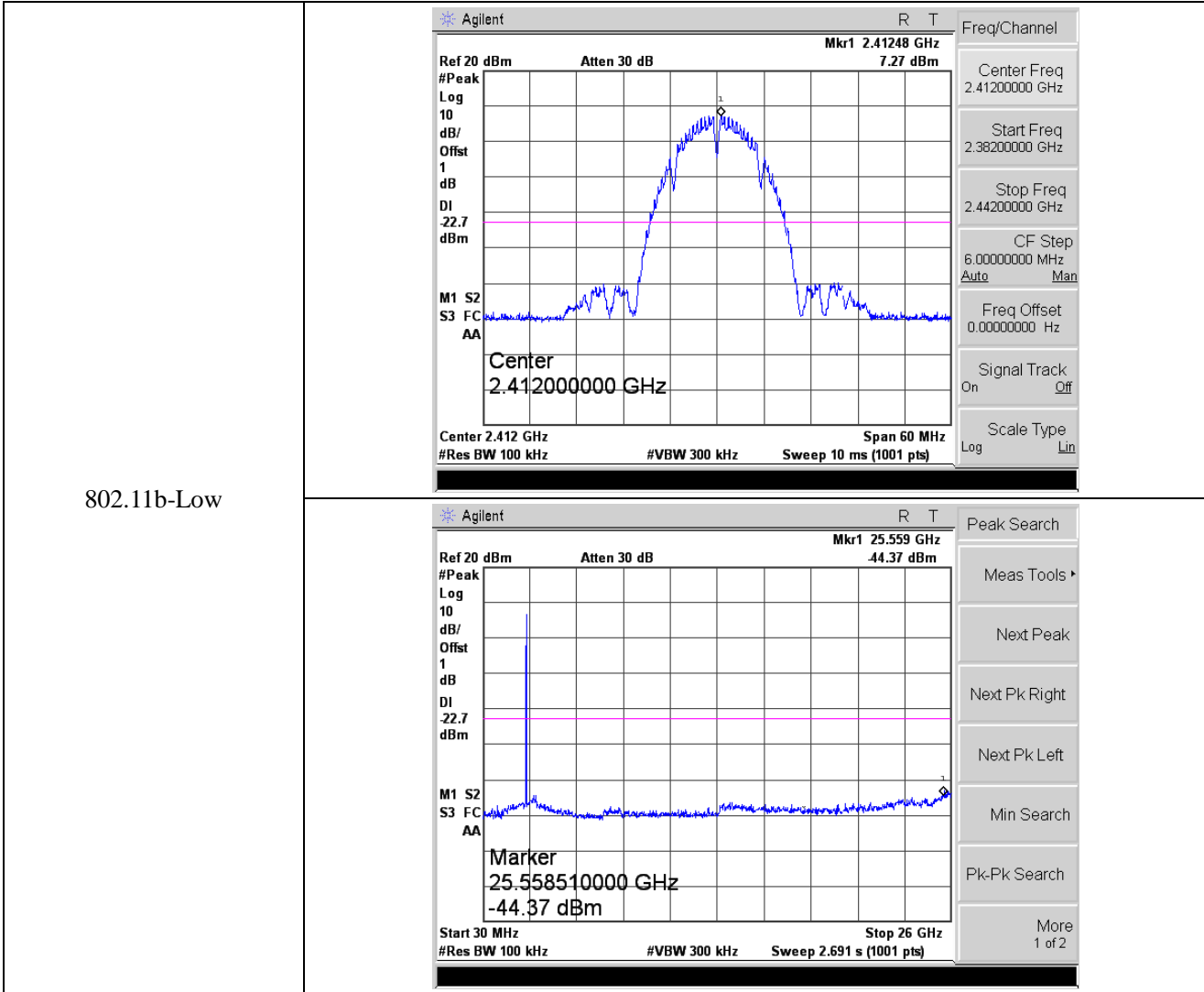
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<p>802.11ax-HE40-Low</p>	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.42200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.422 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.76 dBm / 40.0000 MHz -64.26 dBm/Hz</p>
<p>802.11ax-HE40-Middle</p>	 <p>Agilent R T</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.43700000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.437 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.26 dBm / 40.0000 MHz -64.76 dBm/Hz</p>
<p>802.11ax-HE40-High</p>	 <p>Agilent R T</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Channel Power</p> <p>Center 2.45200000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 2.452 GHz Span 60 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts)</p> <p>Channel Power Power Spectral Density</p> <p>11.06 dBm / 40.0000 MHz -64.96 dBm/Hz</p>

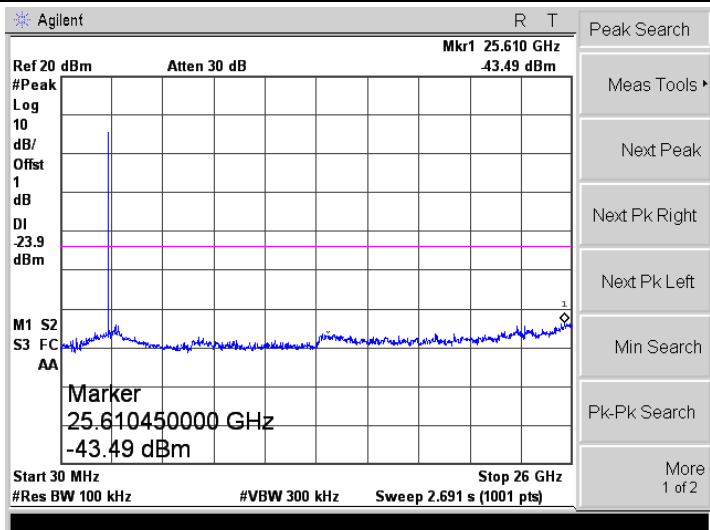
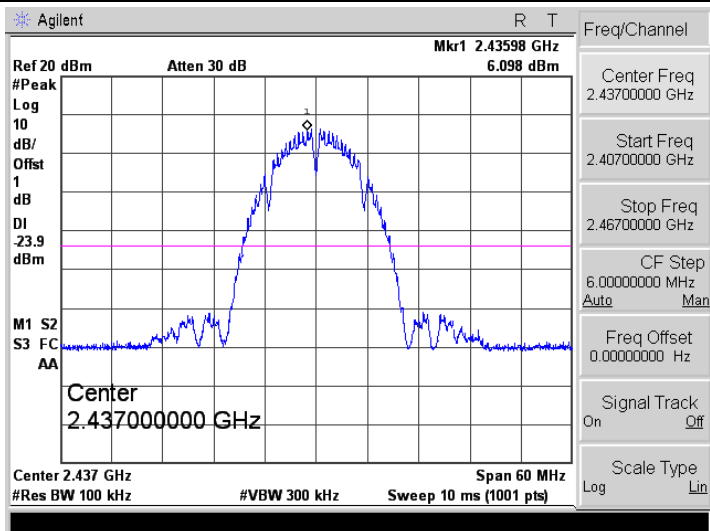
APPENDIX D

Conducted Out of Band Emissions

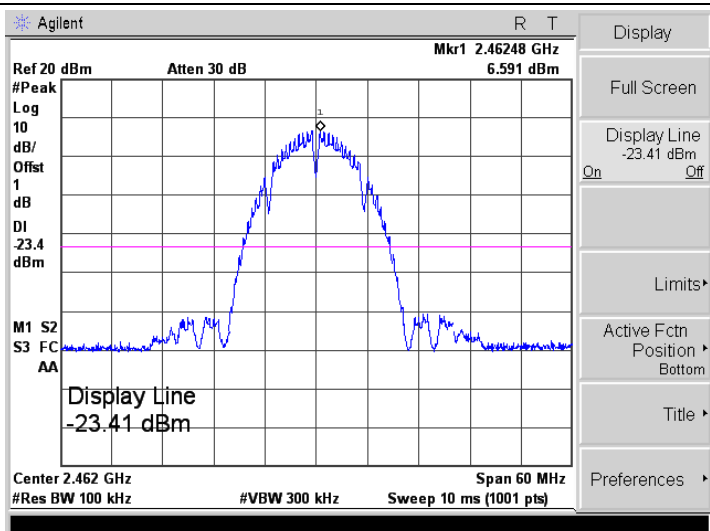
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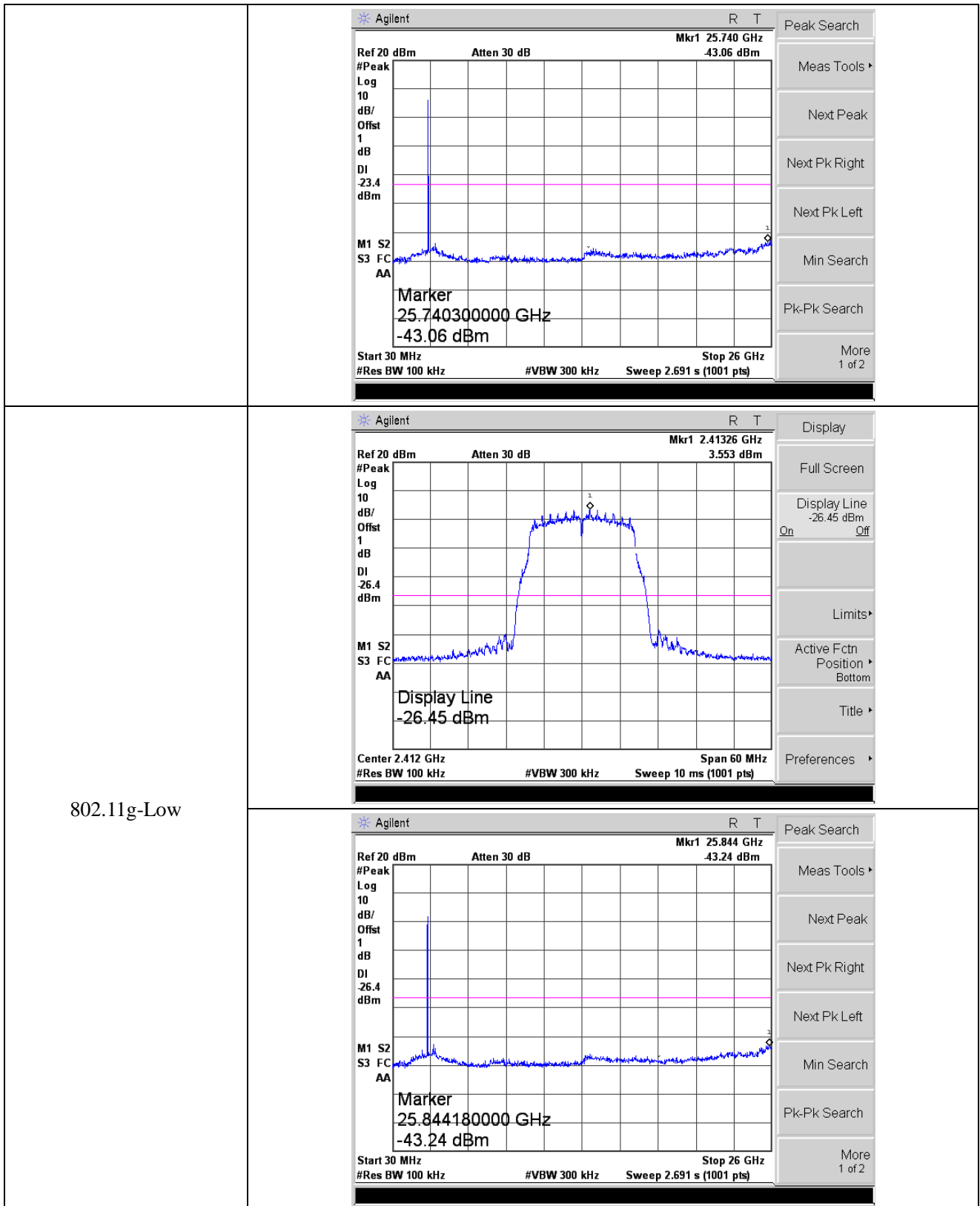


802.11b-Middle

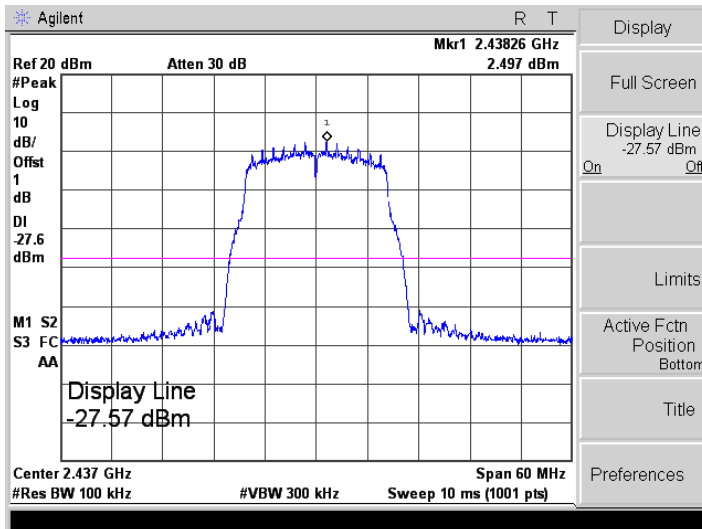


802.11b-High

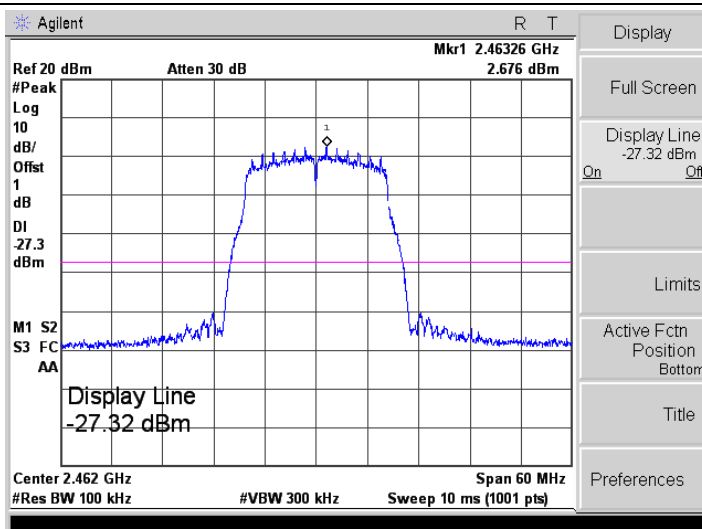
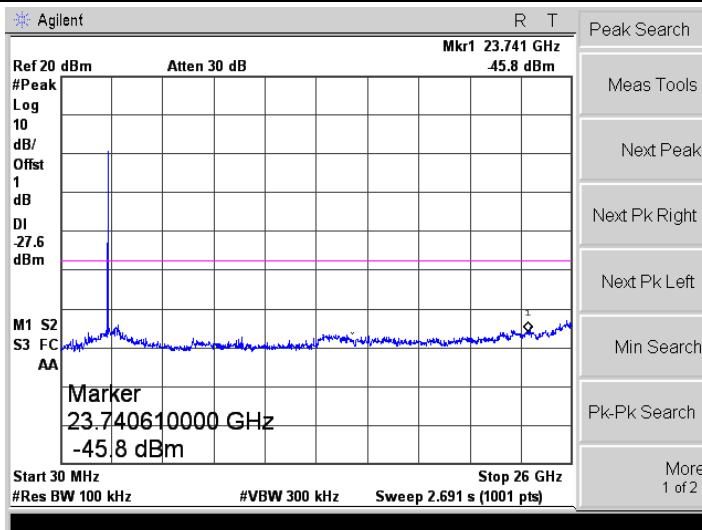


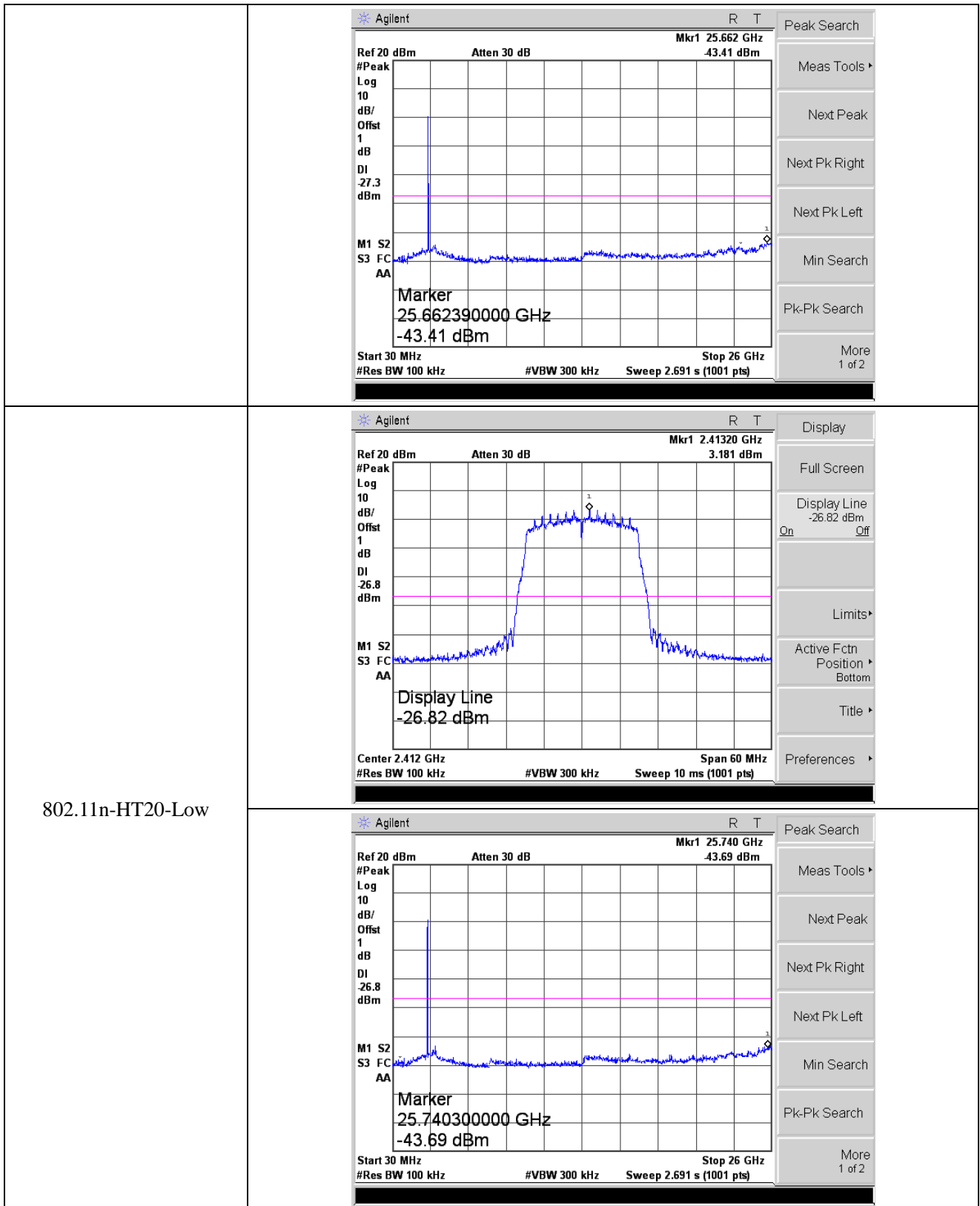


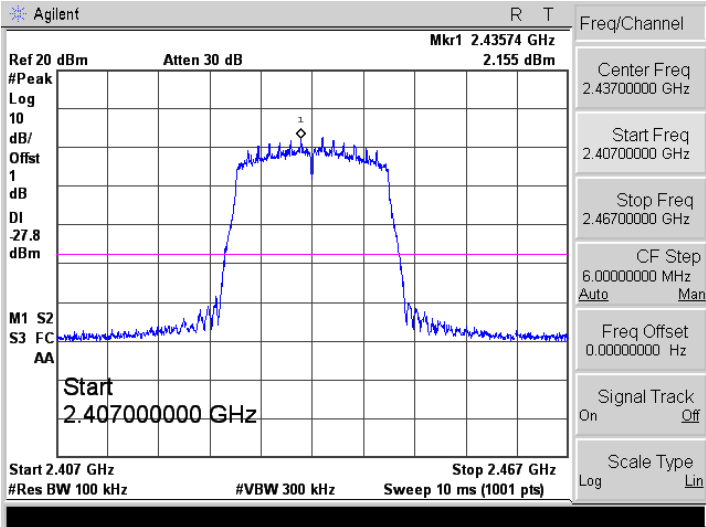
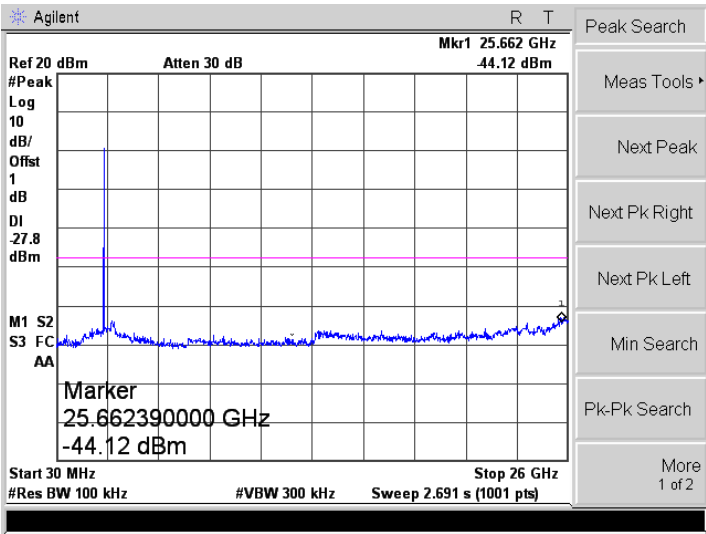
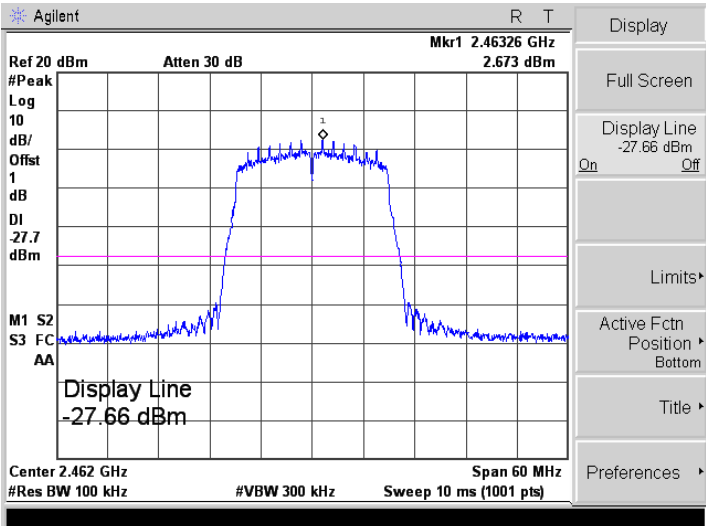
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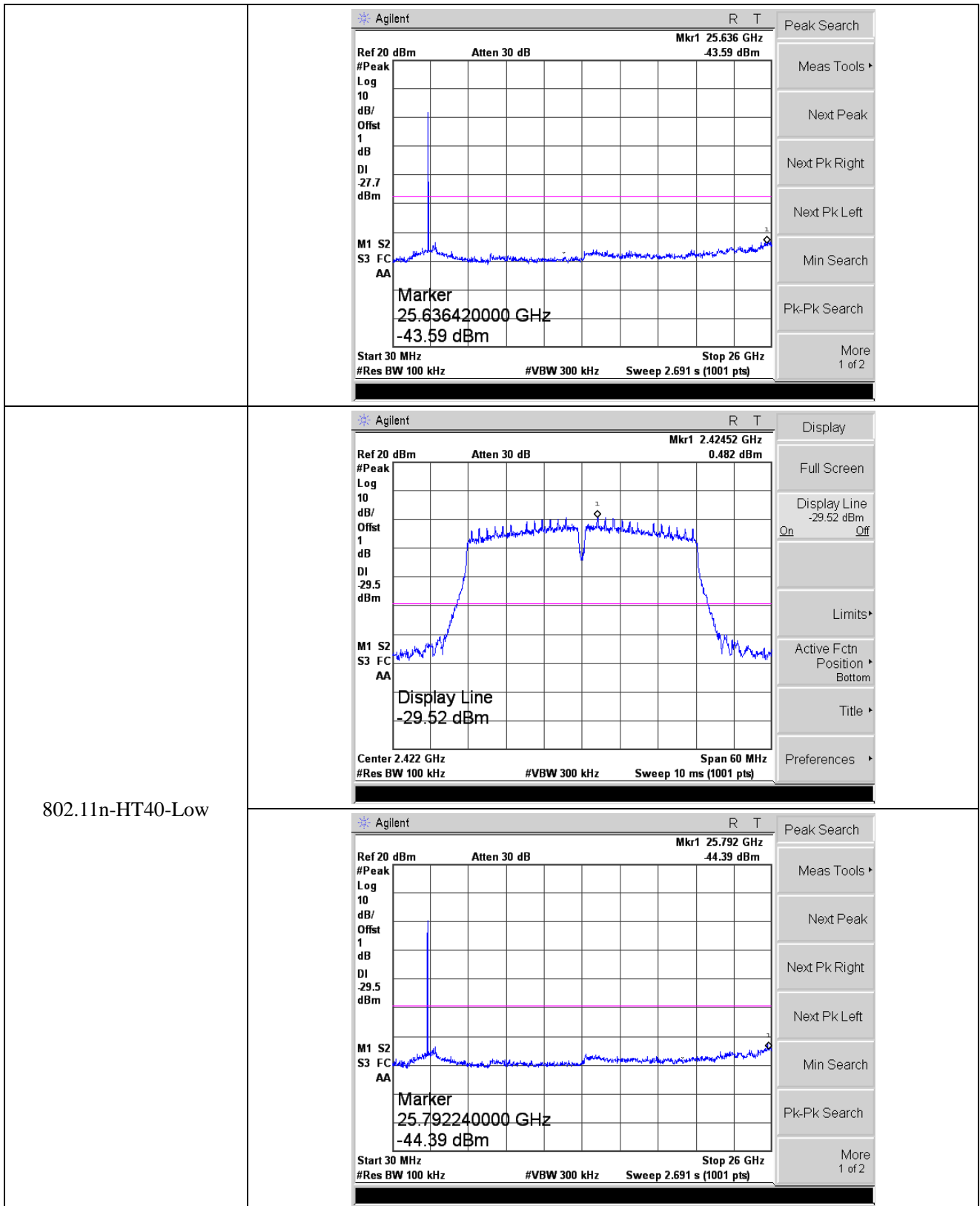


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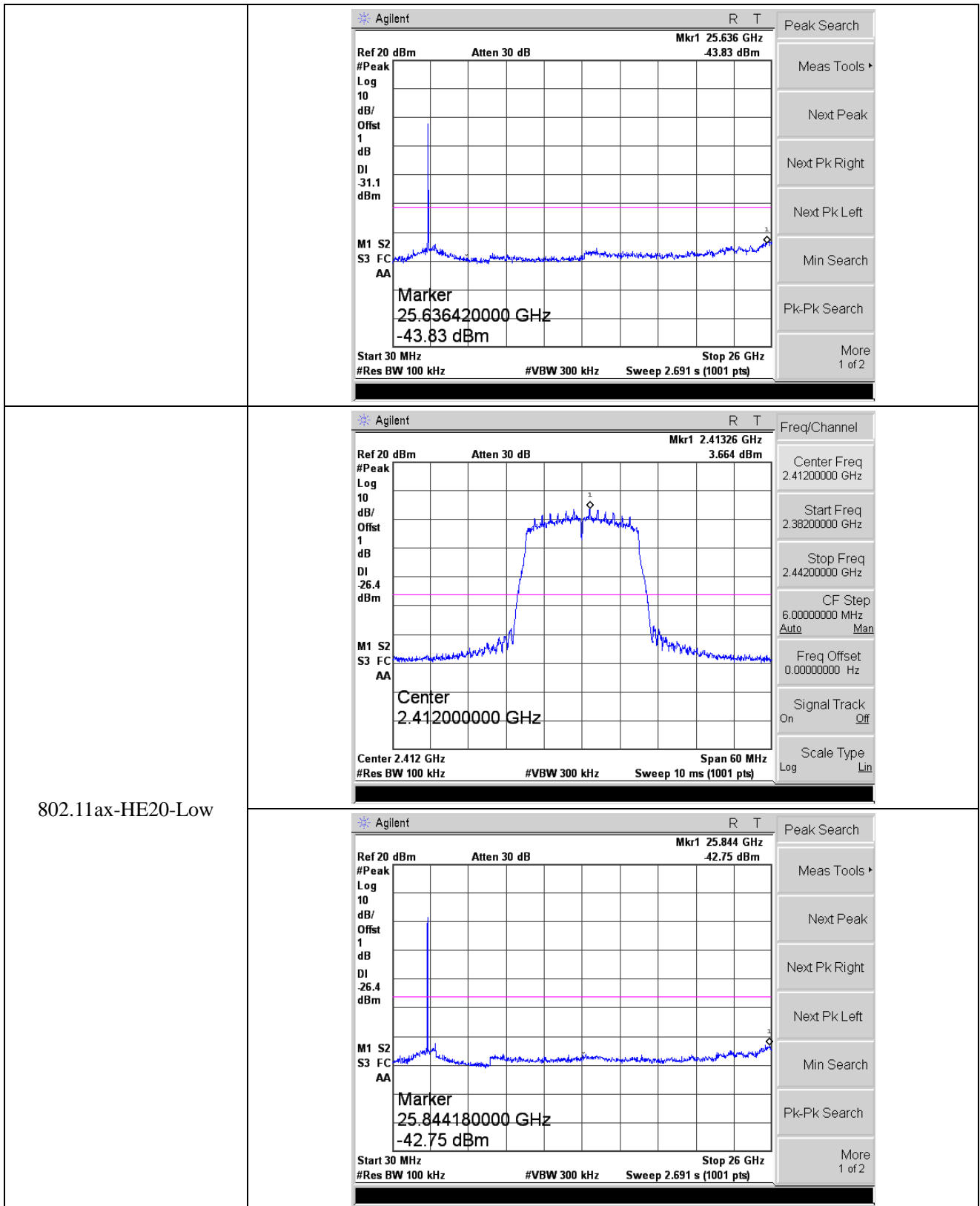




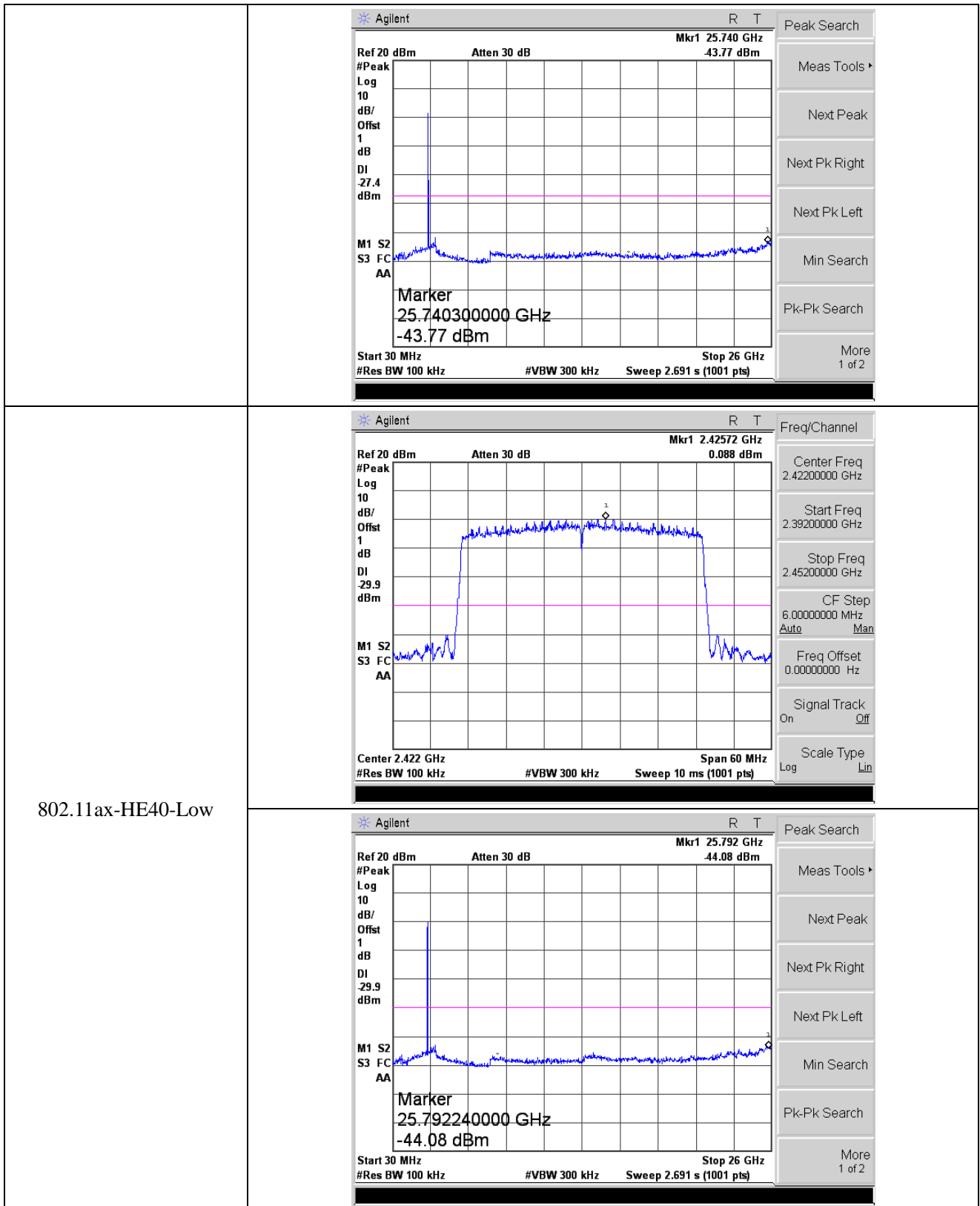
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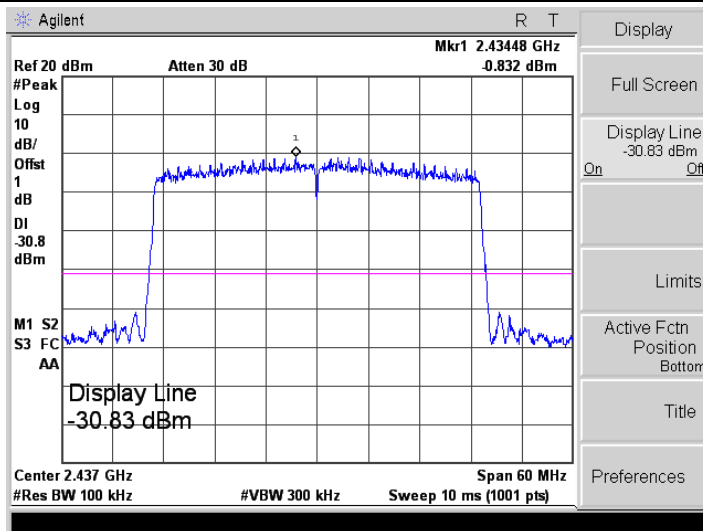
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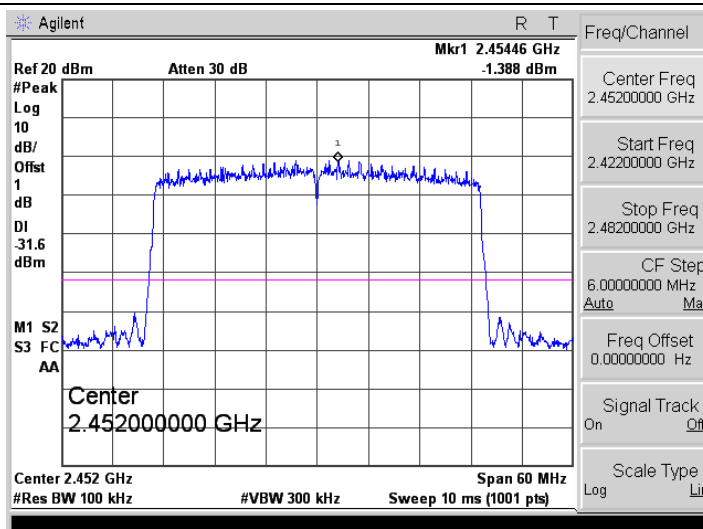
<p>802.11ax-HE20-Middle</p>	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.43946 GHz 1.871 dBm #Peak Log dB/ Offst 1 dB DI -28.2 dBm M1 S2 S3 FC AA Display Line -28.15 dBm Center 2.437 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p>
	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.636 GHz 43.31 dBm #Peak Log dB/ Offst 1 dB DI -28.2 dBm M1 S2 S3 FC AA Marker 25.636420000 GHz -43.31 dBm Start 30 MHz Stop 26 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts)</p>
<p>802.11ax-HE20-High</p>	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.46326 GHz 2.639 dBm #Peak Log dB/ Offst 1 dB DI -27.4 dBm M1 S2 S3 FC AA Center 2.462000000 GHz Center 2.462 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p>

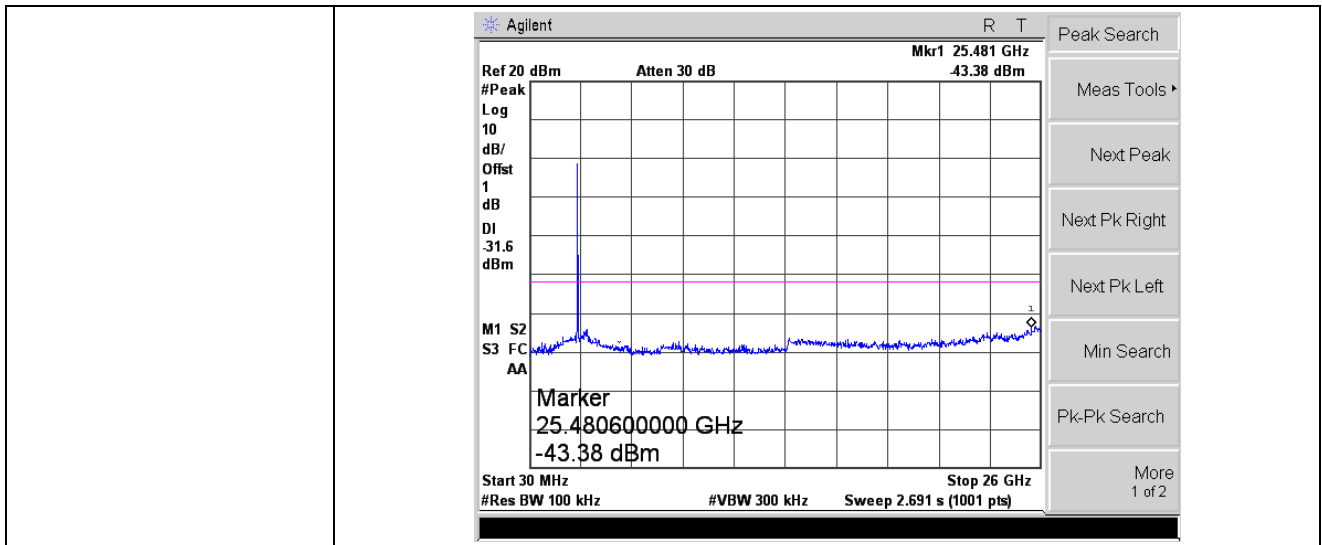


802.11ax-HE40-Middle



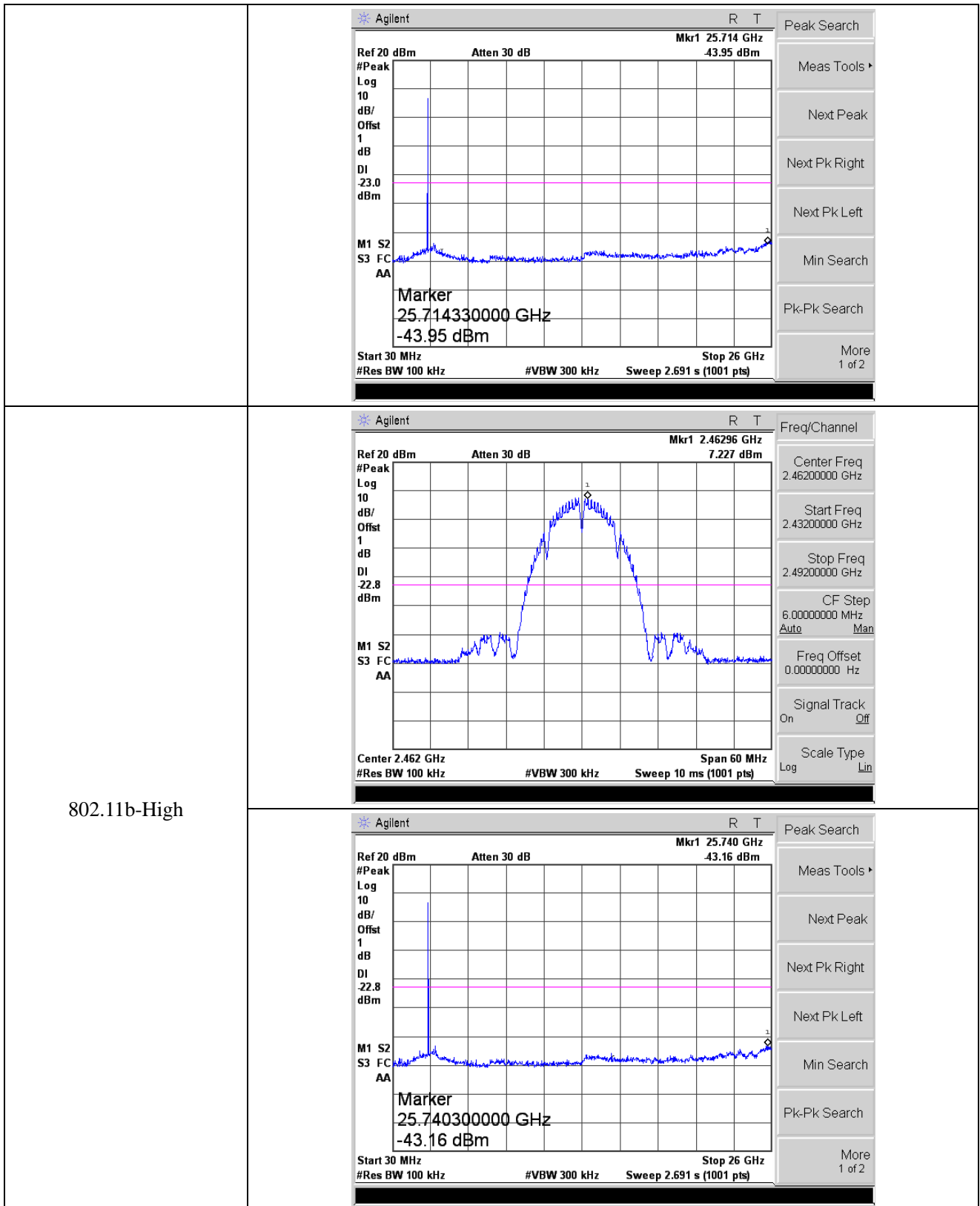
802.11ax-HE40-High



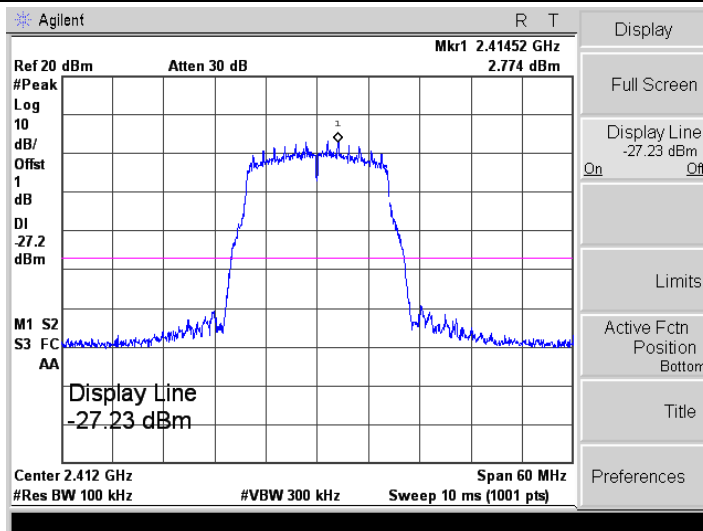


Antenna 2

<p>802.11b-Low</p>	<p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 2.41248 GHz 7.664 dBm</p> <p>#Peak Log 10 dB/ Offst 1 dB DI -22.3 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.41200000 GHz</p> <p>Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Freq/Channel</p> <p>Center Freq 2.41200000 GHz</p> <p>Start Freq 2.38200000 GHz</p> <p>Stop Freq 2.44200000 GHz</p> <p>CF Step 6.0000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p>
	<p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 25.117 GHz -43.69 dBm</p> <p>#Peak Log 10 dB/ Offst 1 dB DI -22.3 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Marker 25.117020000 GHz -43.69 dBm</p> <p>Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts)</p> <p>Peak Search</p> <p>Meas Tools ▶</p> <p>Next Peak</p> <p>Next Pk Right</p> <p>Next Pk Left</p> <p>Min Search</p> <p>Pk-Pk Search</p> <p>More 1 of 2</p>
<p>802.11b-Middle</p>	<p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 2.43646 GHz 7.025 dBm</p> <p>#Peak Log 10 dB/ Offst 1 dB DI -23.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Display Line -22.98 dBm</p> <p>Center 2.437 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Display</p> <p>Full Screen</p> <p>Display Line -22.98 dBm On Off</p> <p>Limits ▶</p> <p>Active Fctn Position ▶ Bottom</p> <p>Title ▶</p> <p>Preferences ▶</p>

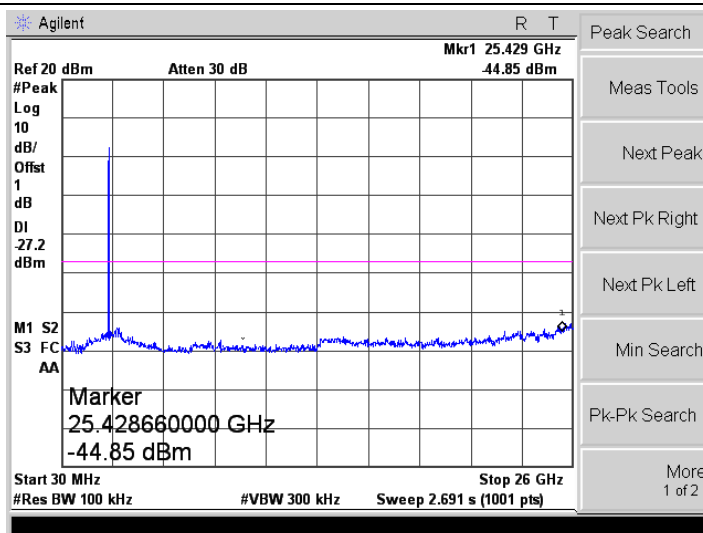


802.11g-Low

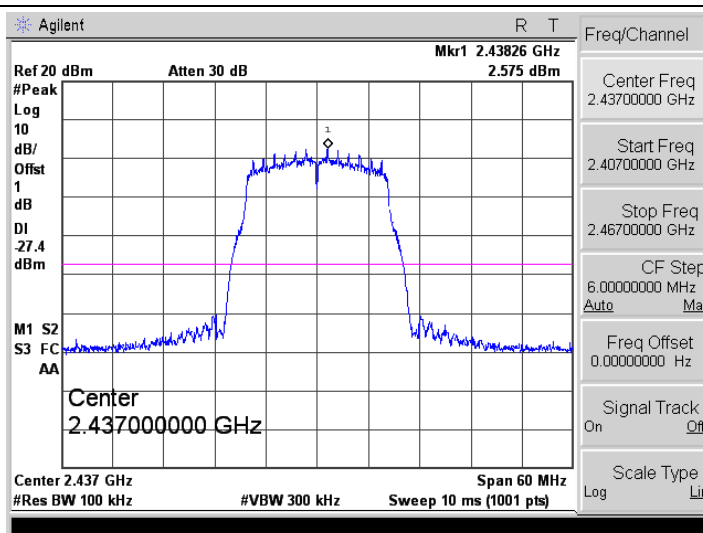


Display
 Full Screen
 Display Line -27.23 dBm On Off
 Limits
 Active Fcn Position Bottom
 Title
 Preferences

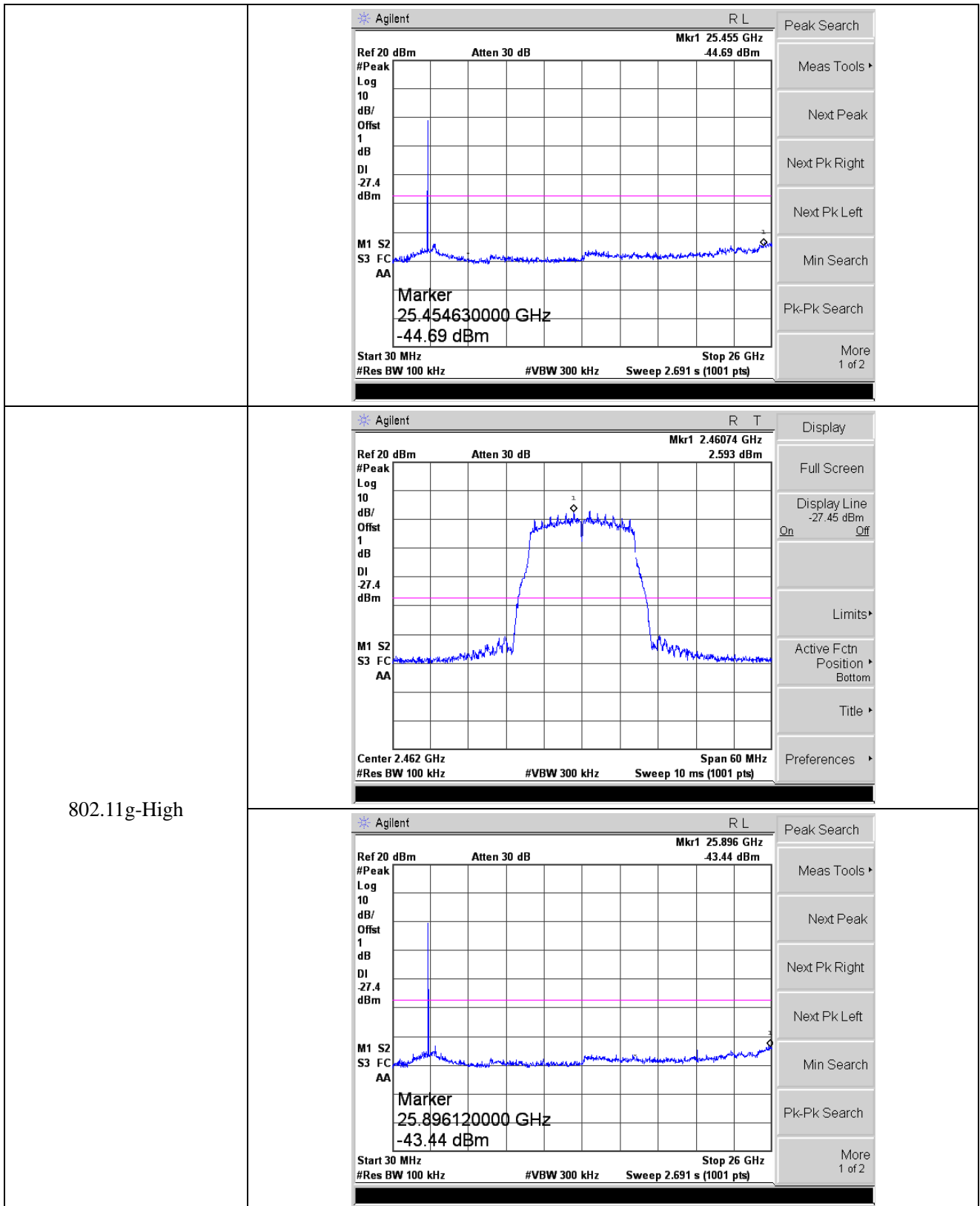
802.11g-Middle



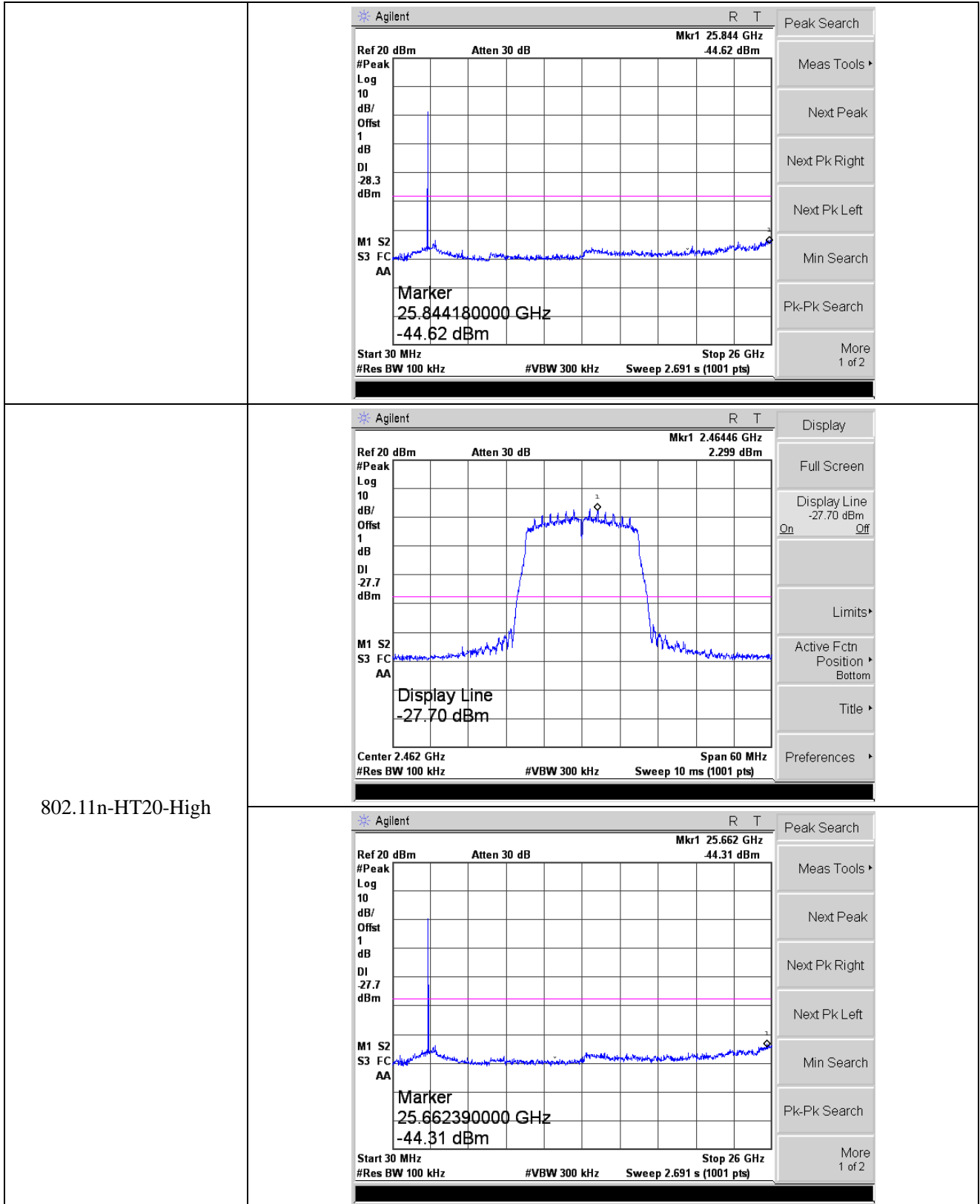
Peak Search
 Meas Tools
 Next Peak
 Next Pk Right
 Next Pk Left
 Min Search
 Pk-Pk Search
 More 1 of 2



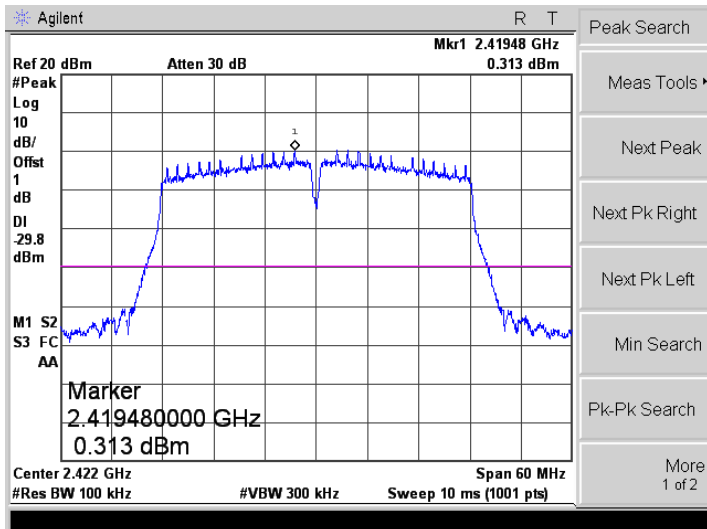
Freq/Channel
 Center Freq 2.43700000 GHz
 Start Freq 2.40700000 GHz
 Stop Freq 2.46700000 GHz
 CF Step 6.00000000 MHz Auto Man
 Freq Offset 0.00000000 Hz
 Signal Track On Off
 Scale Type Log Lin



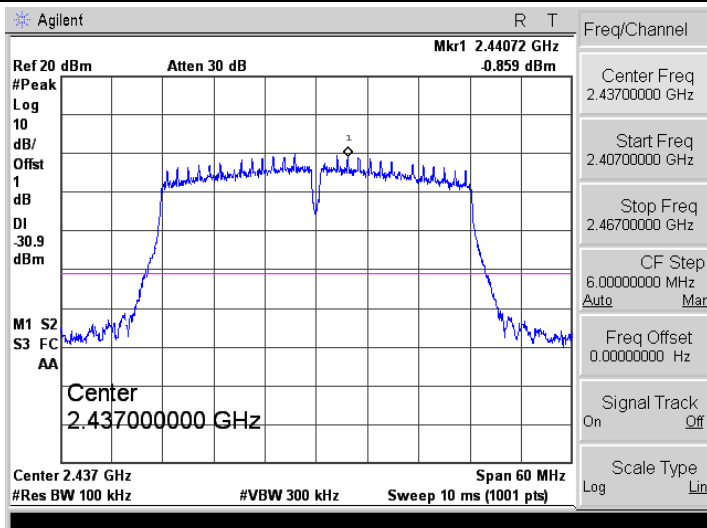
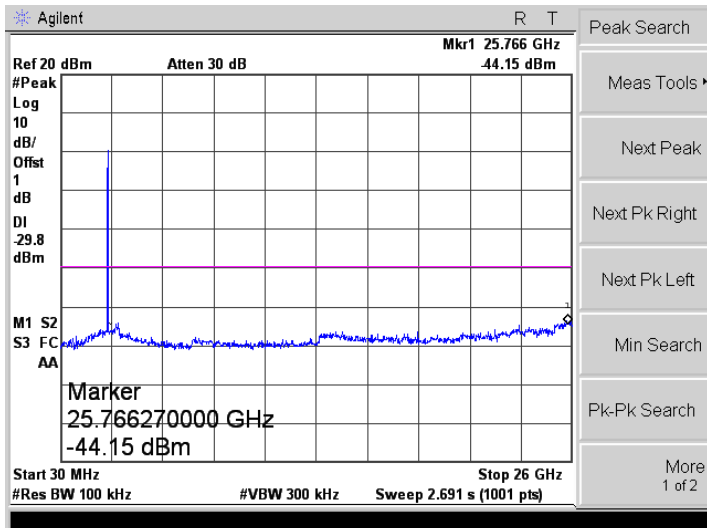
<p>802.11n-HT20-Low</p>	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.41452 GHz 2.69 dBm #Peak Log 10 dB/ Offst 1 dB DI -27.3 dBm M1 S2 S3 FC AA Center 2.41200000 GHz Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.38200000 GHz Stop Freq 2.44200000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin</p>
	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 25.714 GHz -43.56 dBm #Peak Log 10 dB/ Offst 1 dB DI -27.3 dBm M1 S2 S3 FC AA Marker 25.714330000 GHz -43.56 dBm Start 30 MHz Stop 26 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts)</p> <p>Peak Search Meas Tools > Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2</p>
<p>802.11n-HT20-Middle</p>	<p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 2.43952 GHz 1.911 dBm #Peak Log 10 dB/ Offst 1 dB DI -28.3 dBm M1 S2 S3 FC AA Display Line -28.34 dBm Center 2.437 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Display Full Screen Display Line -28.34 dBm On Off Limits > Active Fcn Position > Bottom Title > Preferences ></p>

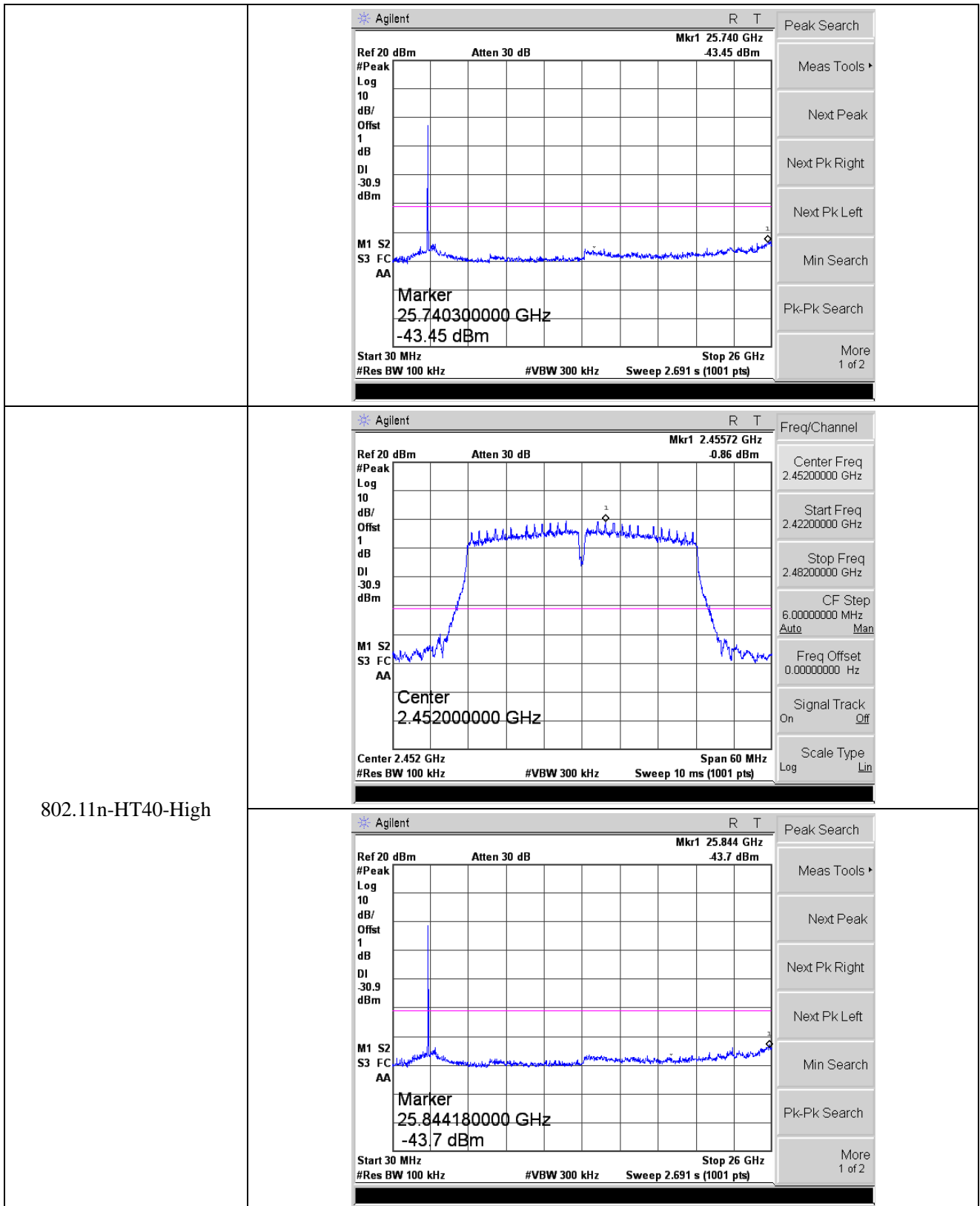


802.11n-HT40-Low

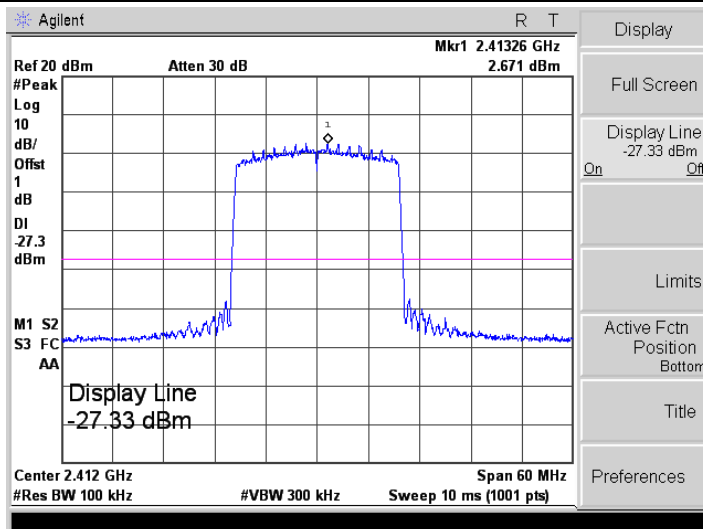


802.11n-HT40-Middle

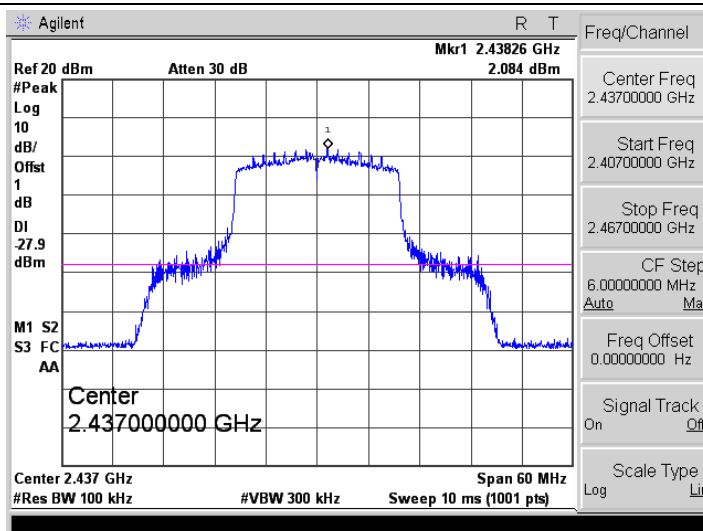
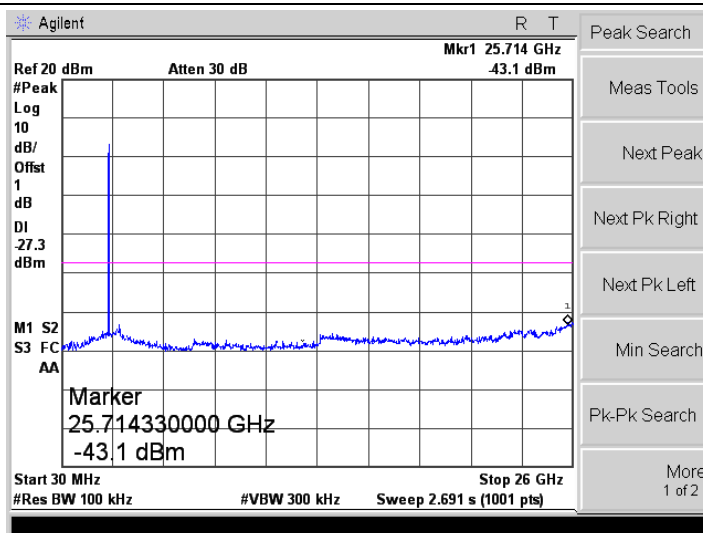


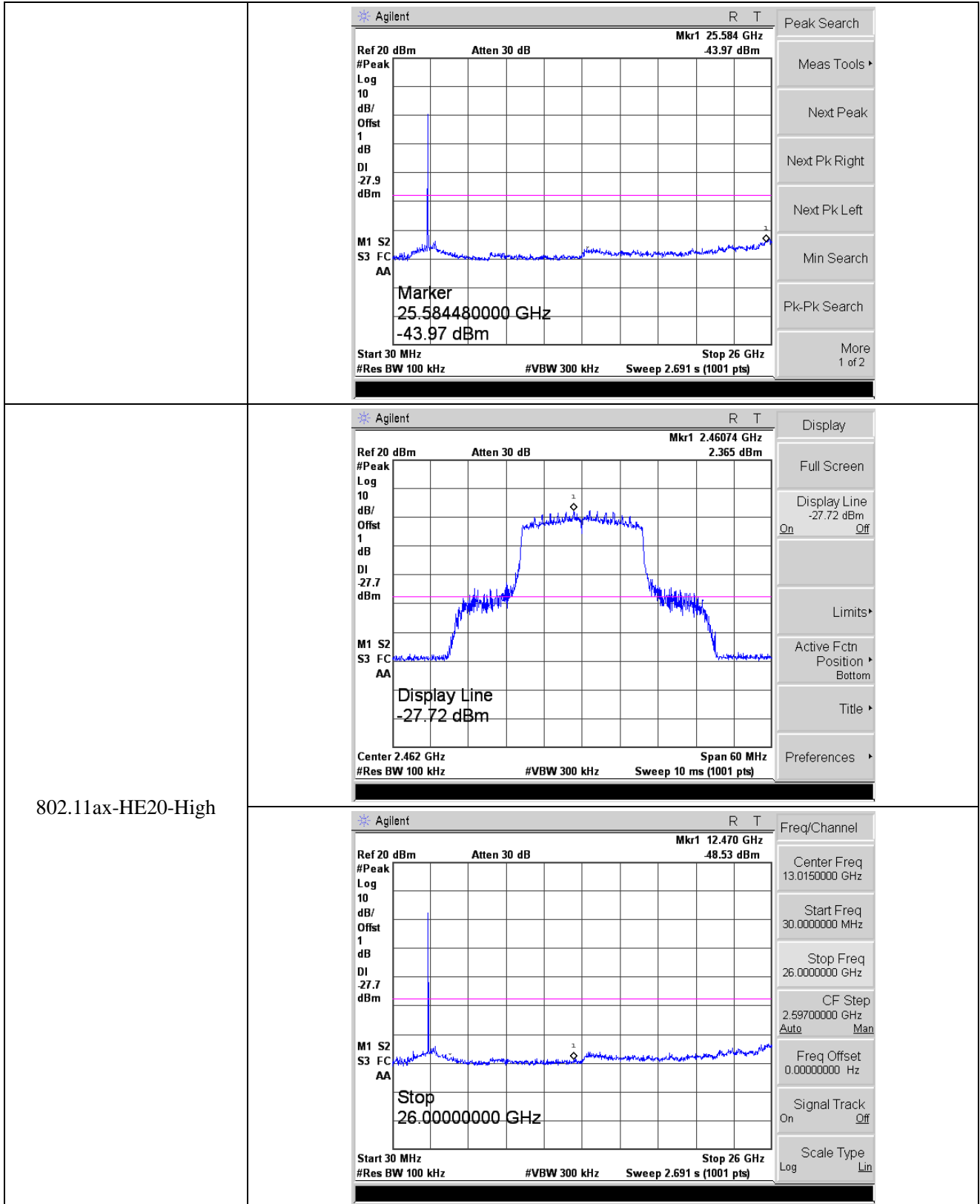


802.11ax-HE20-Low

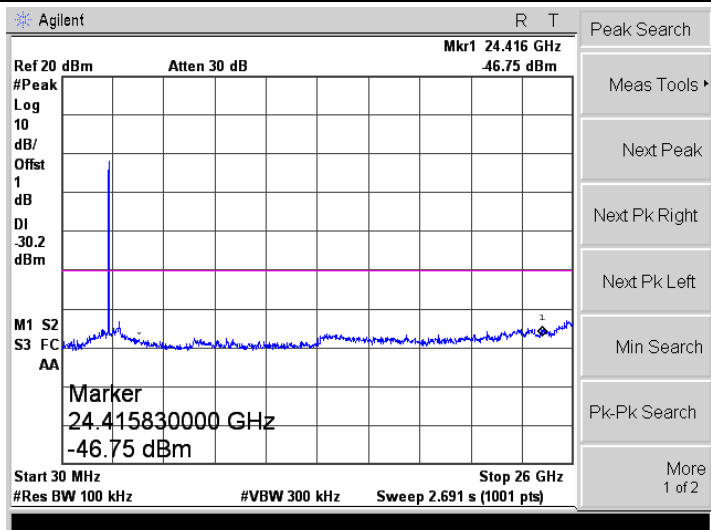
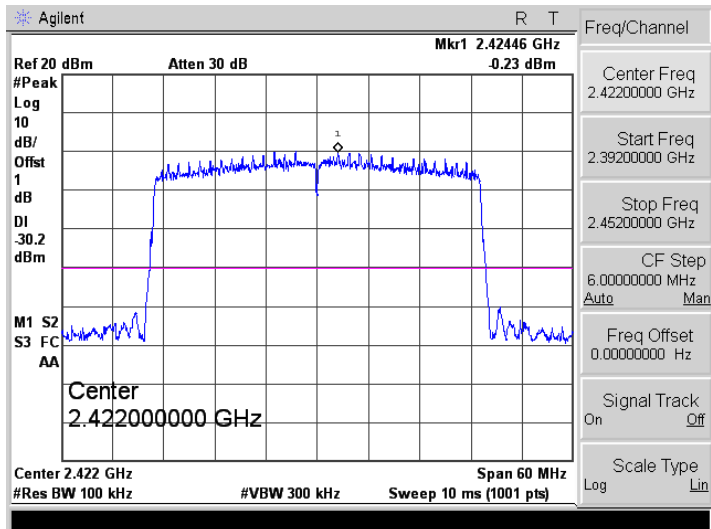


802.11ax-HE20-Middle

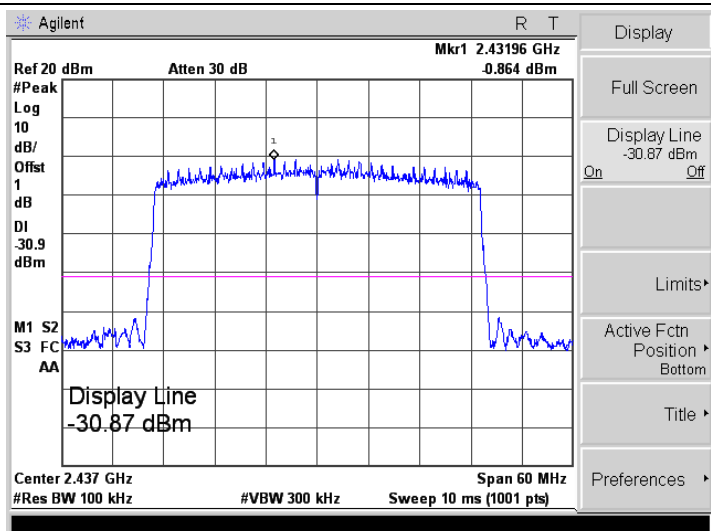


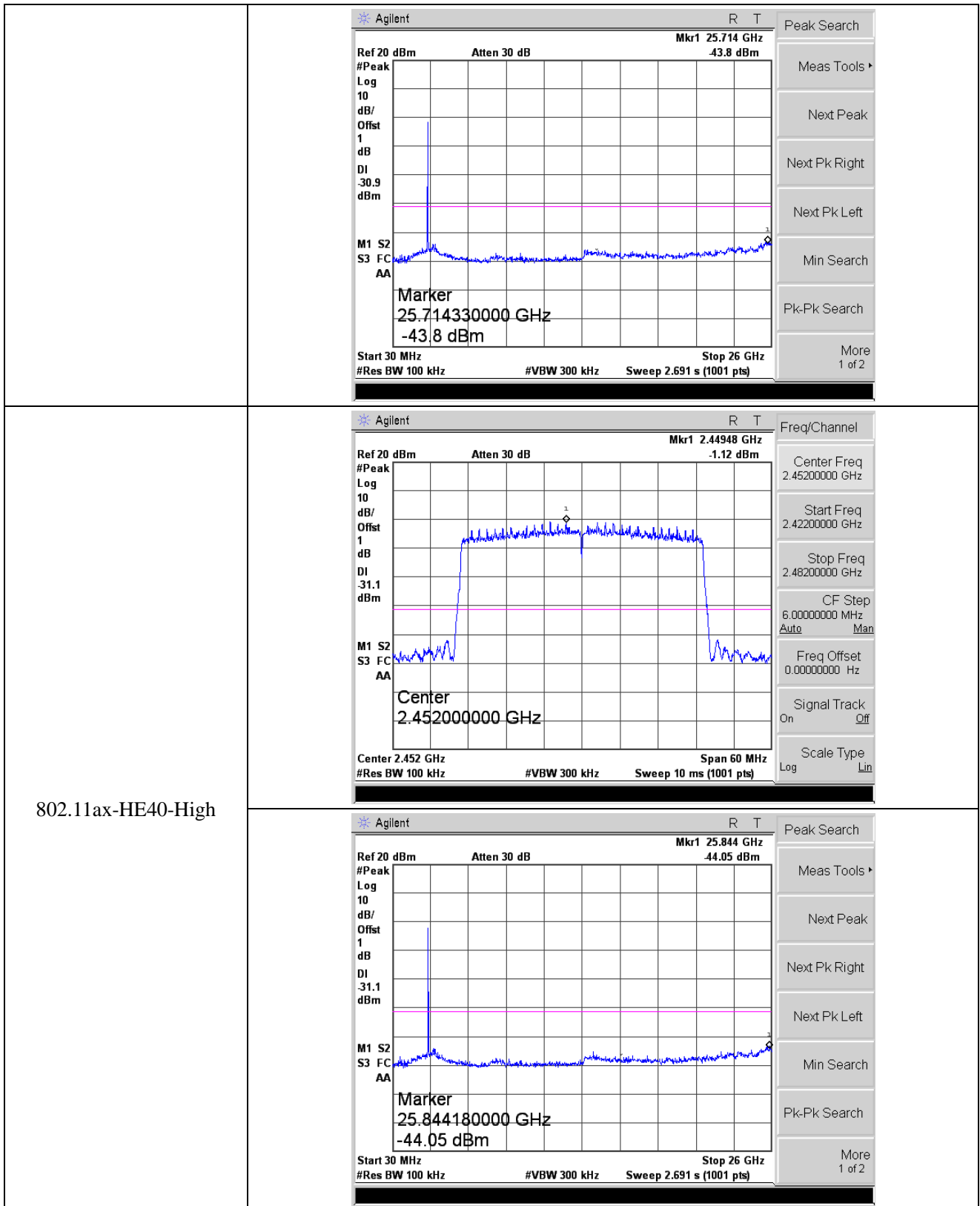


802.11ax-HE40-Low



802.11ax-HE40-Middle





APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******