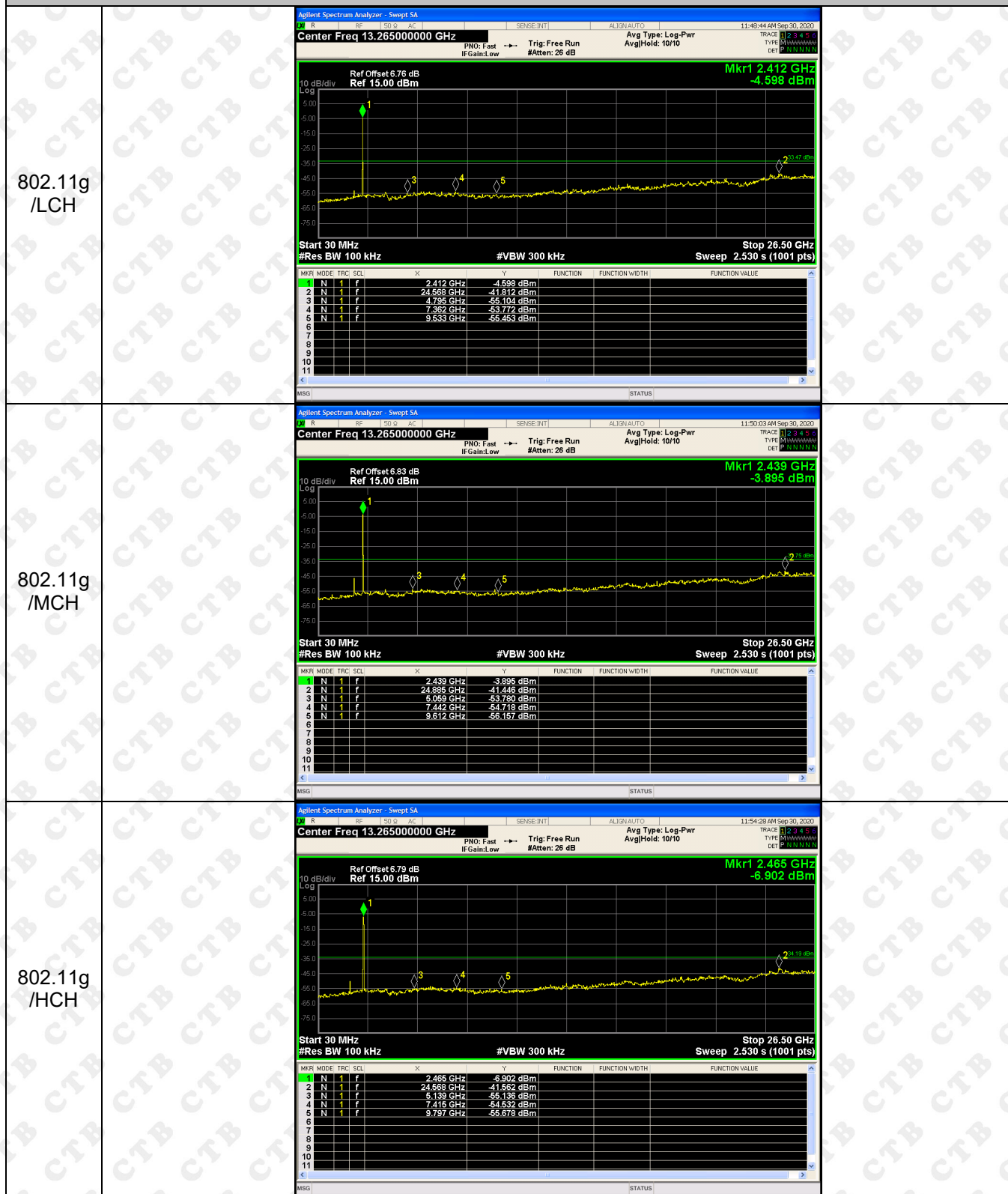


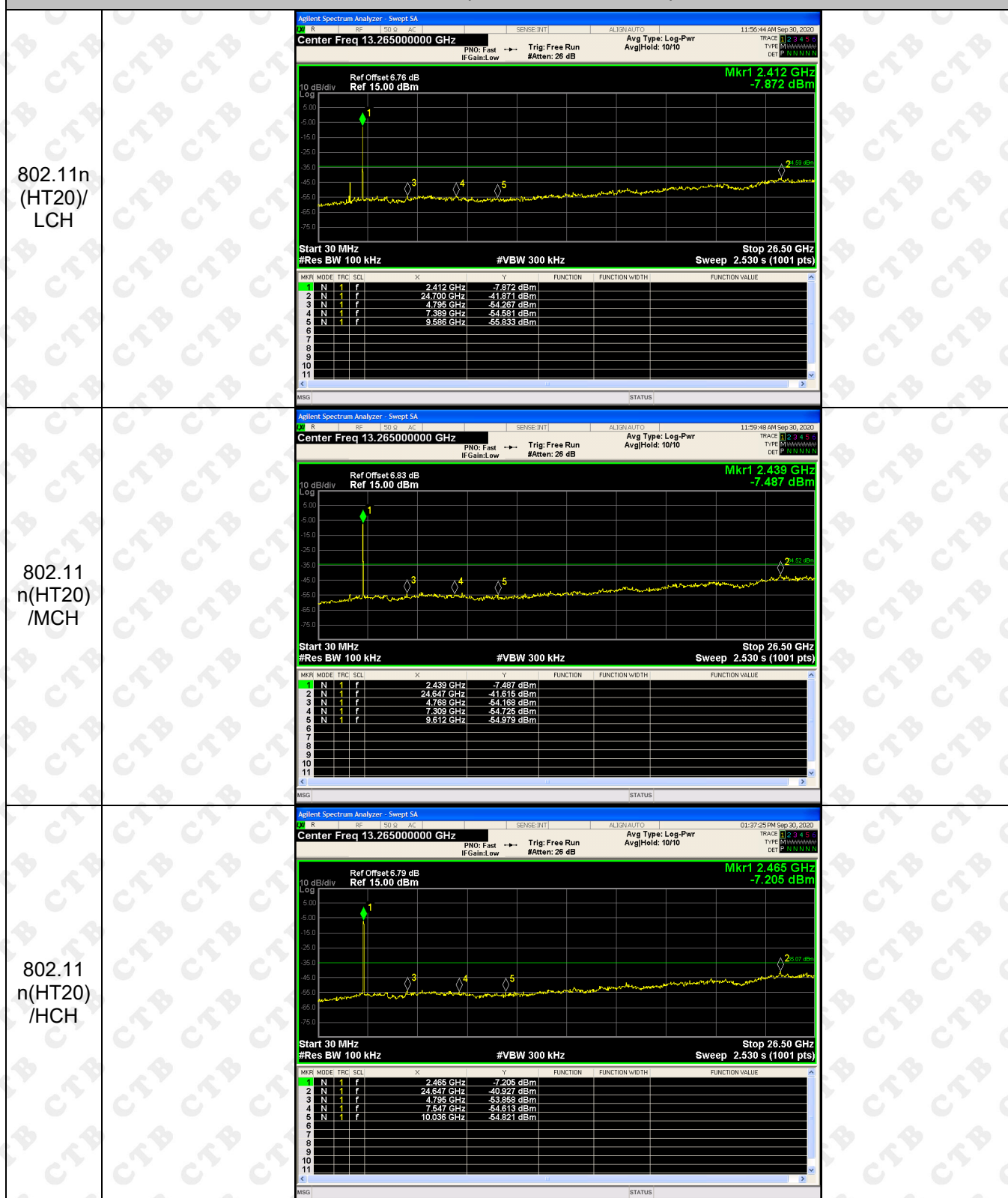
RF Conducted Spurious Emissions Graphs



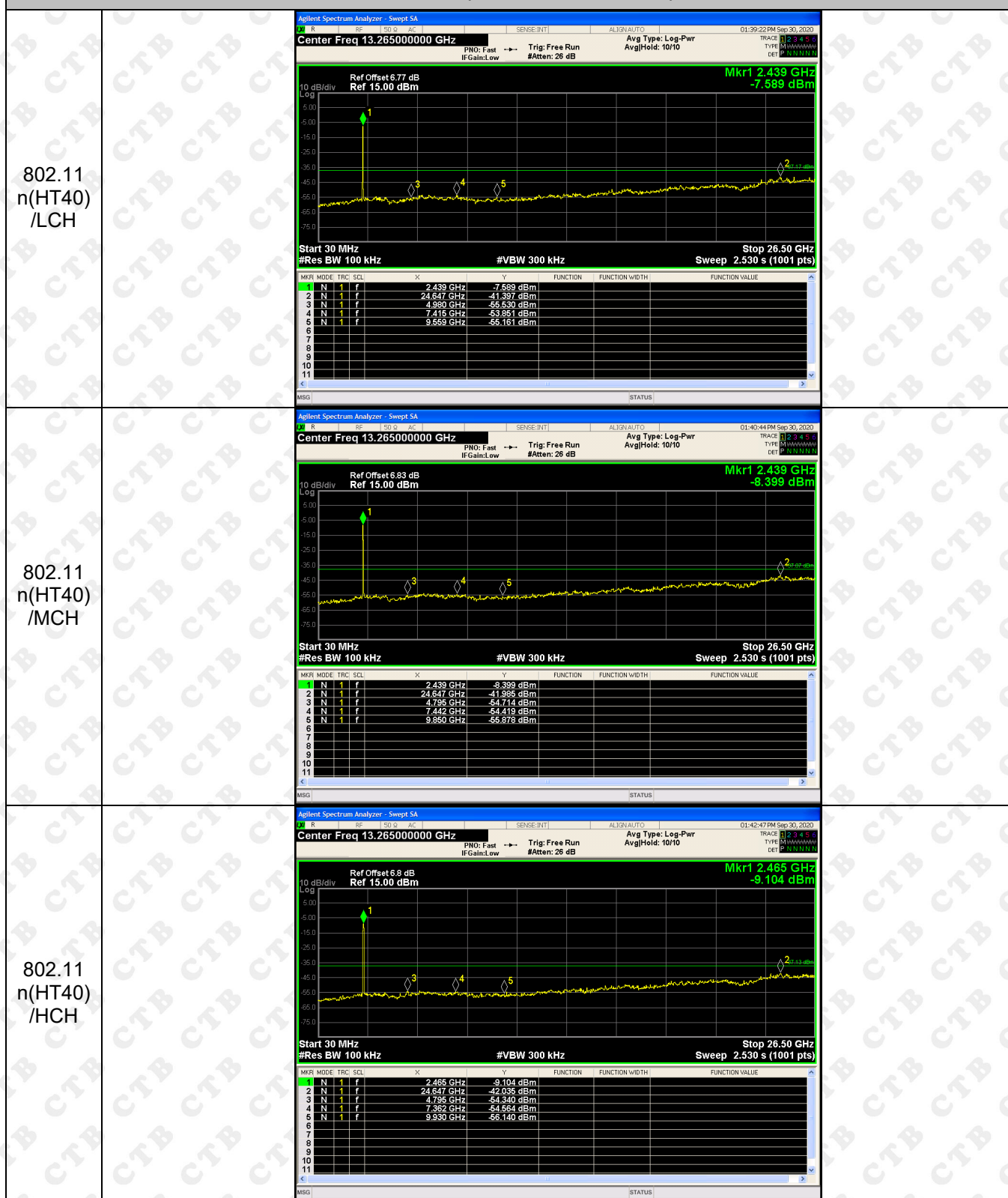
RF Conducted Spurious Emissions Graphs



RF Conducted Spurious Emissions Graphs

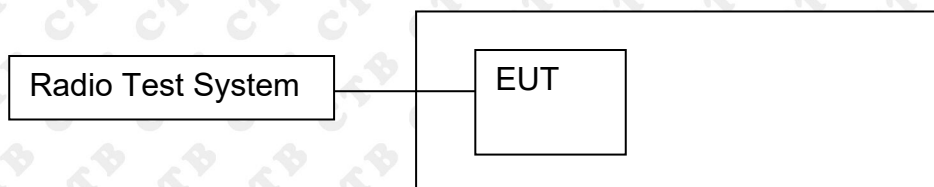


RF Conducted Spurious Emissions Graphs



9. COUDUCTED OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = PEAK. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

ANT 1

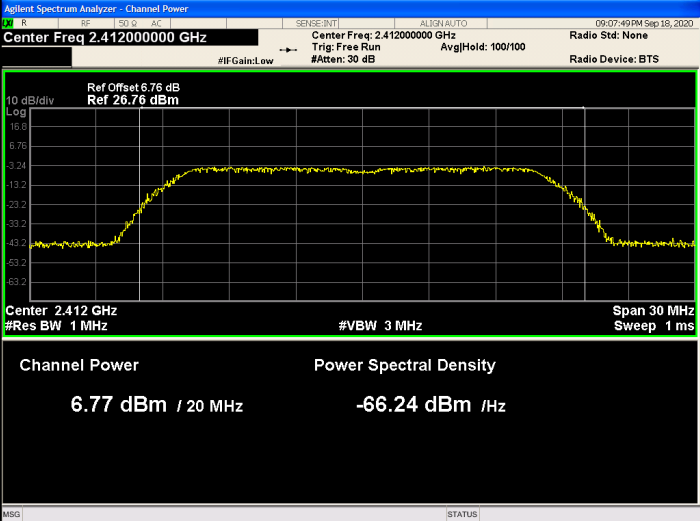
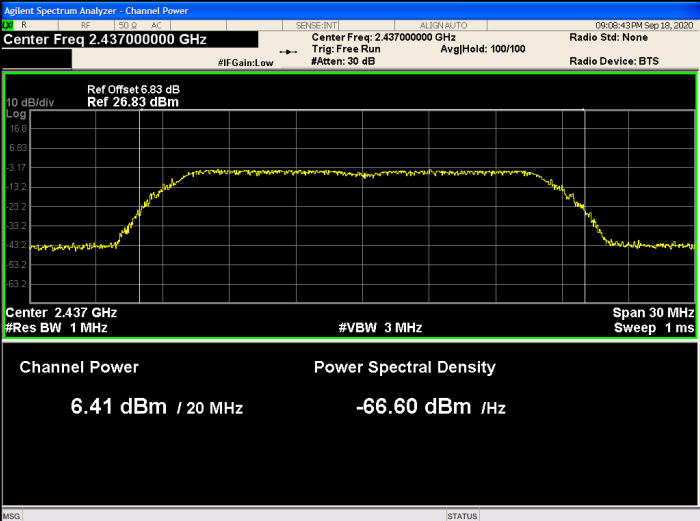
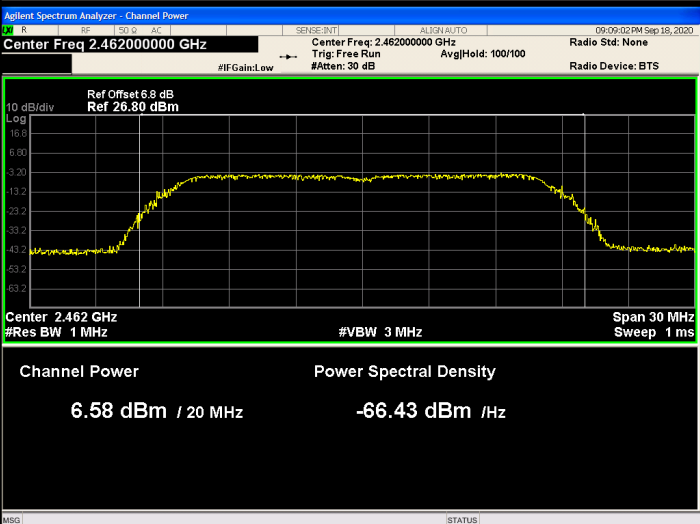
Mode	Channel.	Maximum Output Power [dBm]	Limit[dBm]	Verdict
802.11b	LCH	7.372	30	PASS
	MCH	7.396	30	PASS
	HCH	7.671	30	PASS
802.11g	LCH	6.773	30	PASS
	MCH	6.414	30	PASS
	HCH	6.58	30	PASS
802.11n(HT20)	LCH	5.393	30	PASS
	MCH	5.245	30	PASS
	HCH	5.344	30	PASS
802.11n(HT40)	LCH	3.815	30	PASS
	MCH	3.62	30	PASS
	HCH	3.7	30	PASS

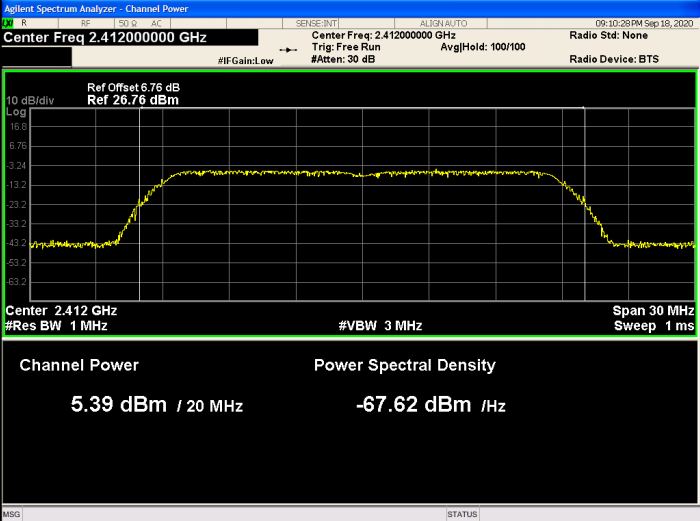
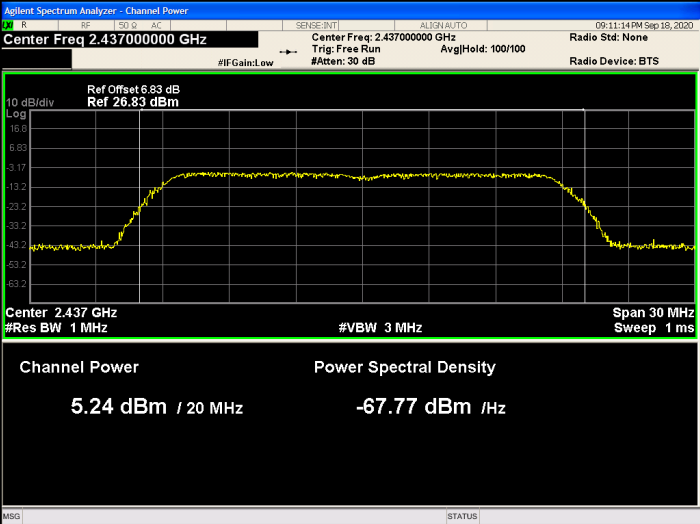
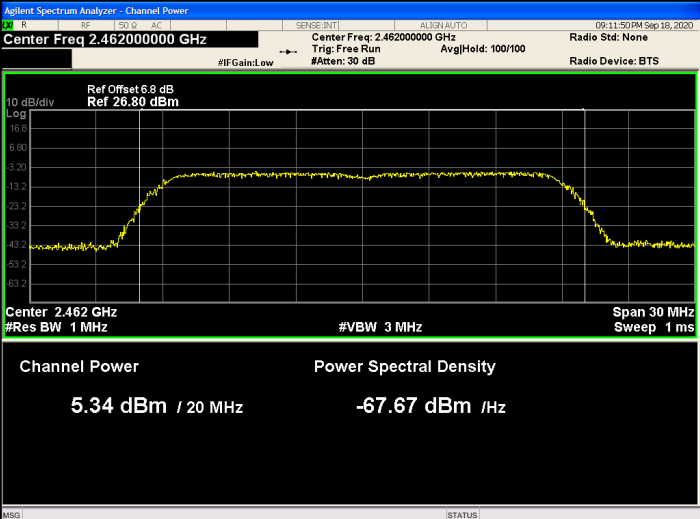
ANT 2 +ANT 3

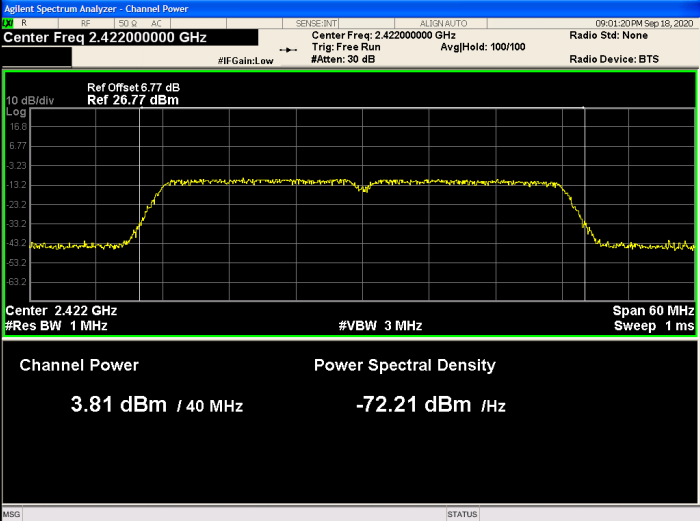
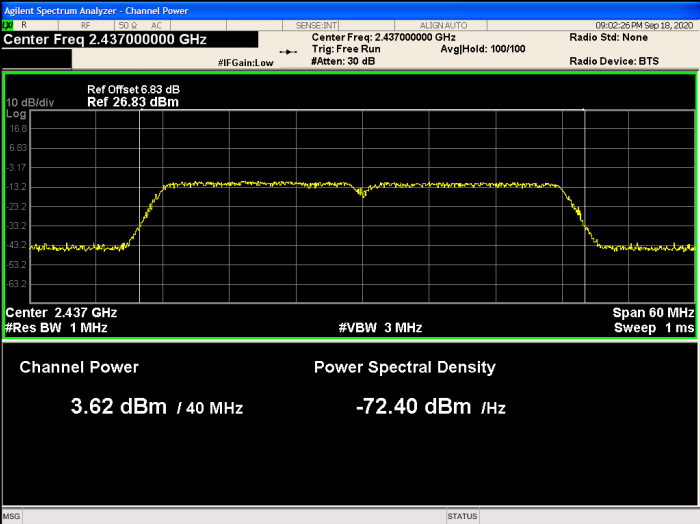
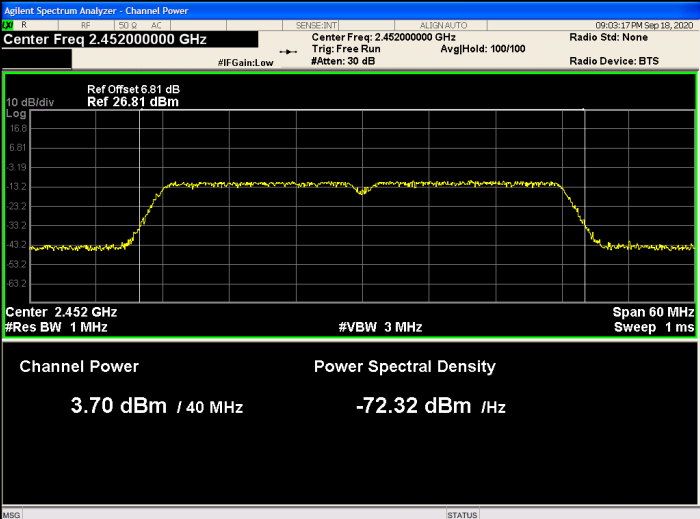
Mode	Channel.	Maximum Output Power [dBm] ant 2	Maximum Output Power [dBm] ant 3	Total Power Conducted Output Power(PK)	Limit[dBm]
802.11b	LCH	7.589	7.232	10.424	30
	MCH	7.451	7.492	10.482	30
	HCH	7.118	7.22	10.180	30
802.11g	LCH	6.448	6.562	9.516	30
	MCH	6.621	6.568	9.605	30
	HCH	6.051	6.205	9.139	30
802.11n(HT20)	LCH	5.71	5.718	8.724	30
	MCH	5.745	5.141	8.464	30
	HCH	5.7	5.782	8.751	30
802.11n(HT40)	LCH	3.66	3.733	6.707	30
	MCH	3.158	3.408	6.295	30
	HCH	3.754	3.773	6.774	30

ANT 1

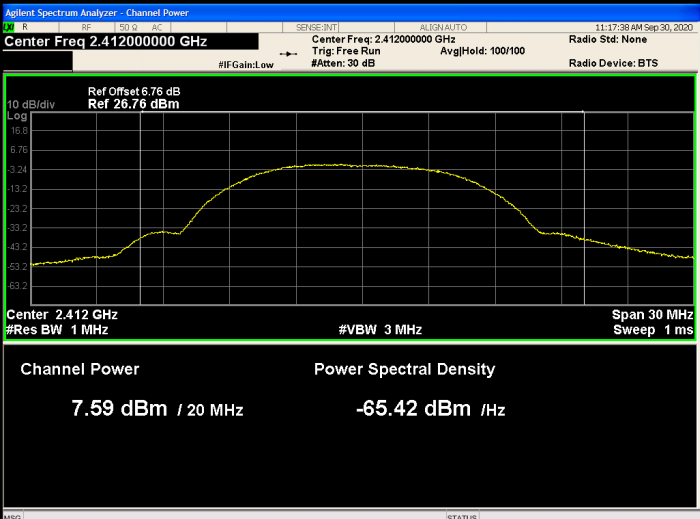
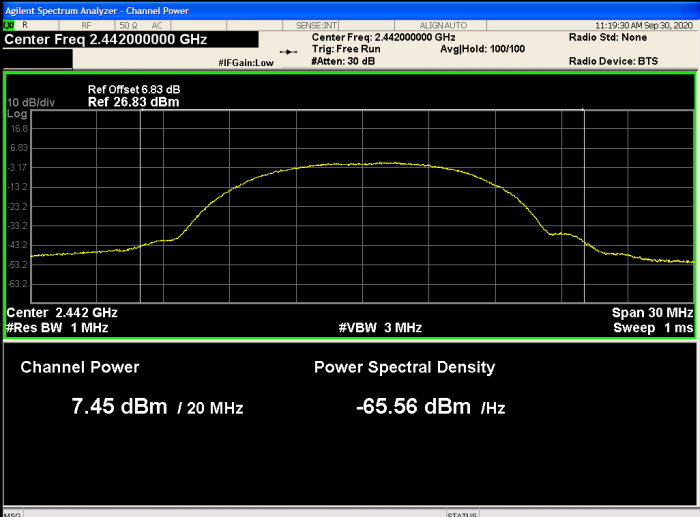
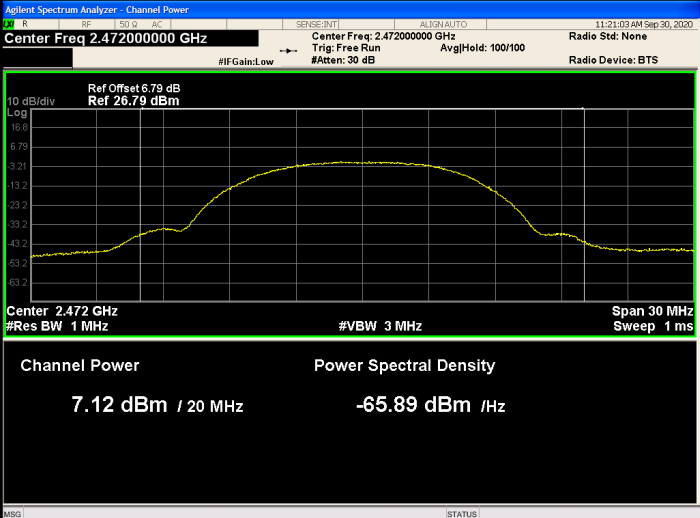
Mode	Channel.	Maximum Output Power [dBm]
802.11b	LCH	Agilent Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Ref Offset: 6.76 dB Ref: 26.76 dBm Channel Power: 7.37 dBm / 20 MHz Power Spectral Density: -65.64 dBm / Hz
	MCH	Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Ref Offset: 6.83 dB Ref: 26.83 dBm Channel Power: 7.40 dBm / 20 MHz Power Spectral Density: -65.61 dBm / Hz
	HCH	Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Ref Offset: 6.8 dB Ref: 26.80 dBm Channel Power: 7.67 dBm / 20 MHz Power Spectral Density: -65.34 dBm / Hz

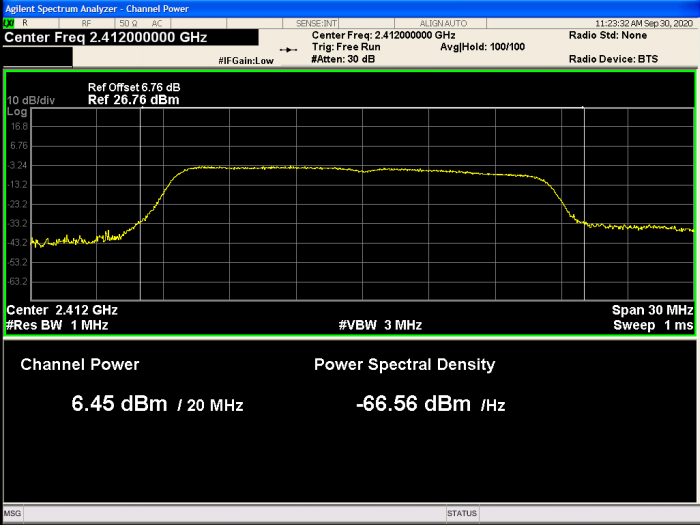
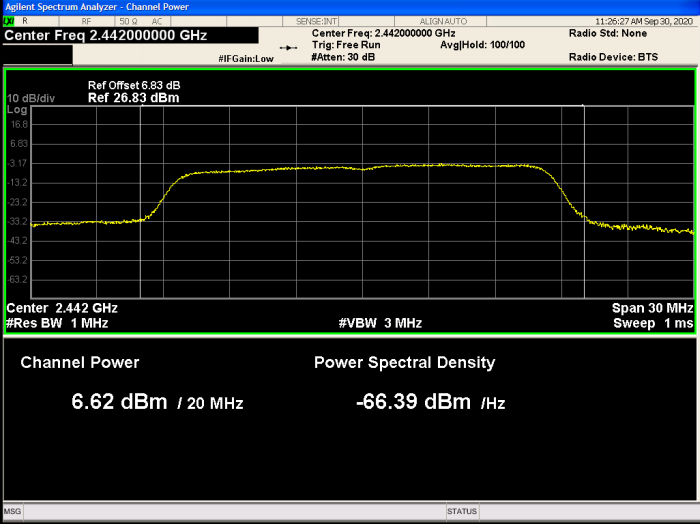
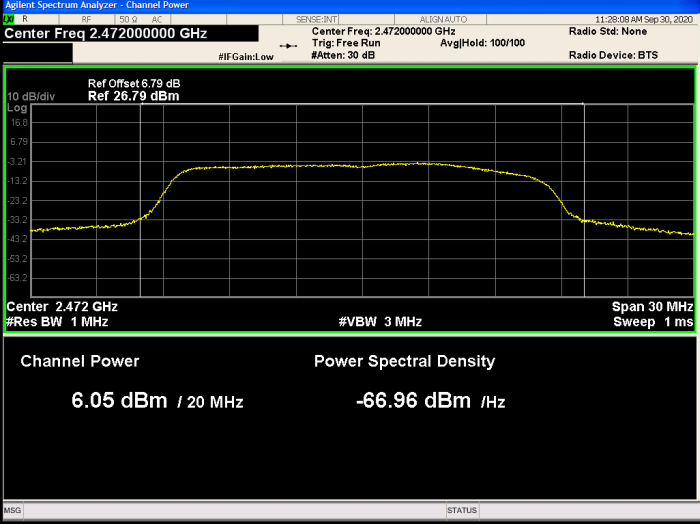
	LCH		
802.11g	MCH		
	HCH		

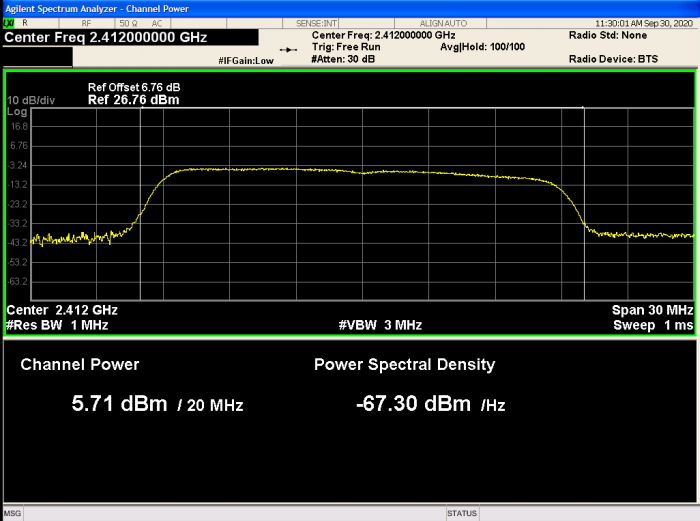
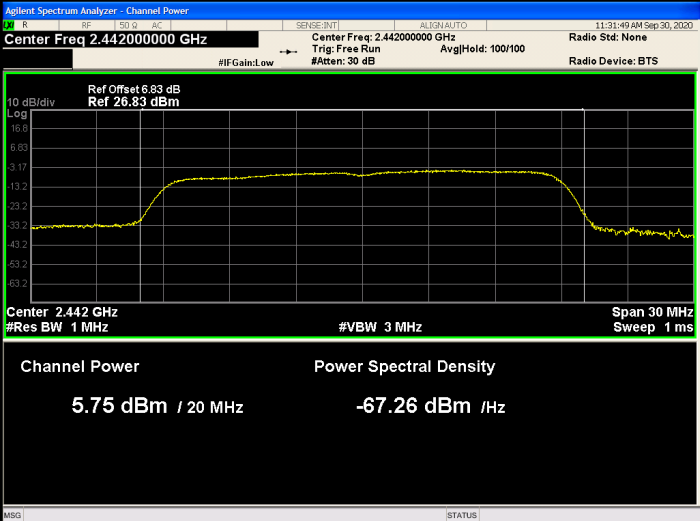
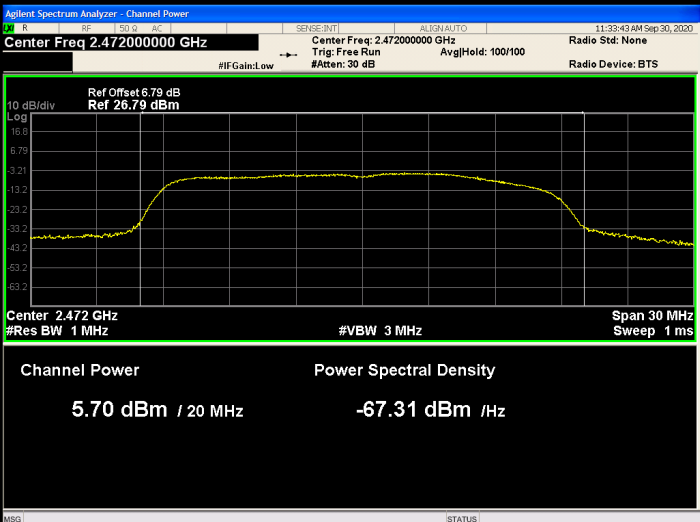
	LCH	
802.11n(HT20)	MCH	
	HCH	

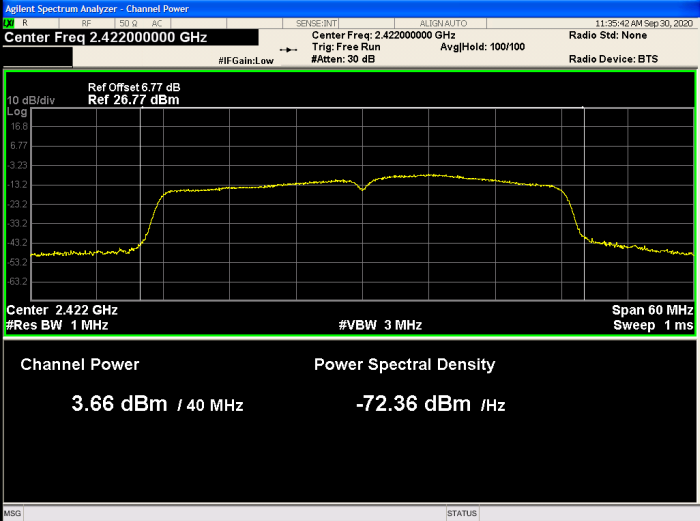
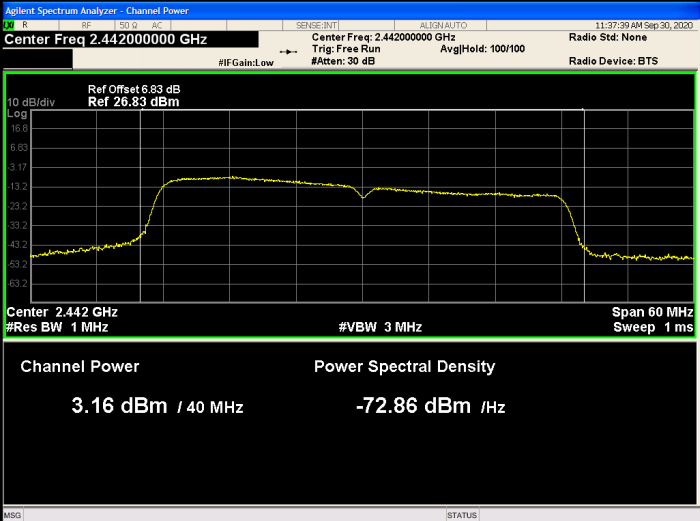
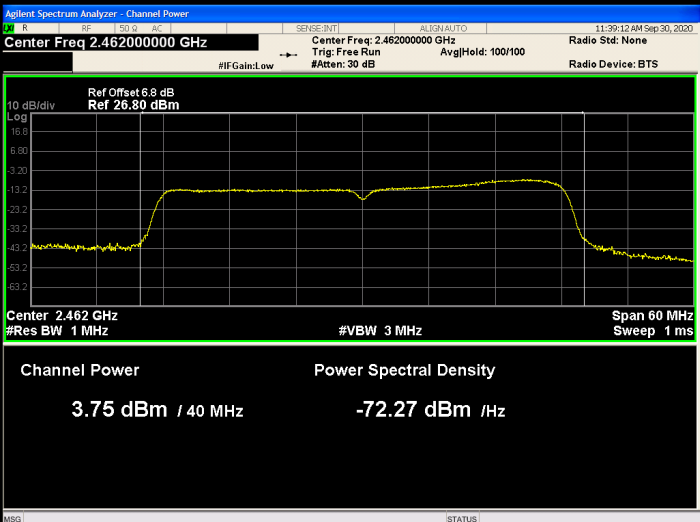
	LCH	
802.11n(HT40)	MCH	
	HCH	

ANT 2

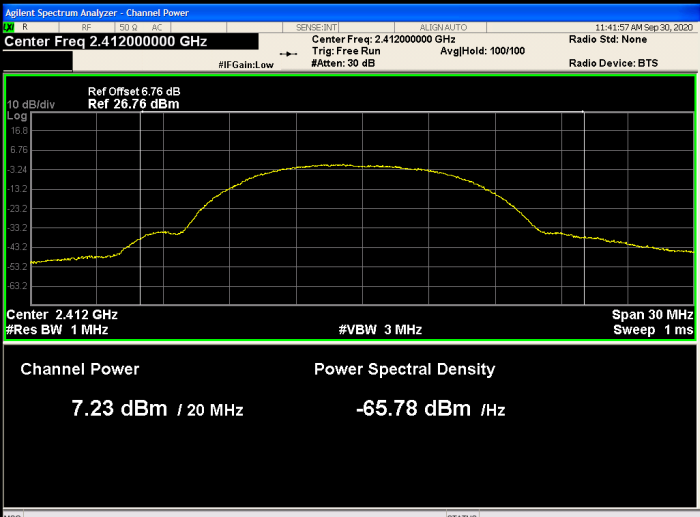
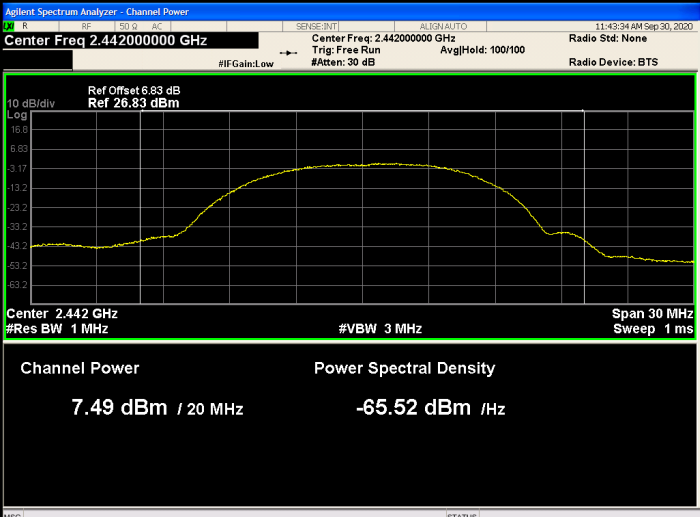
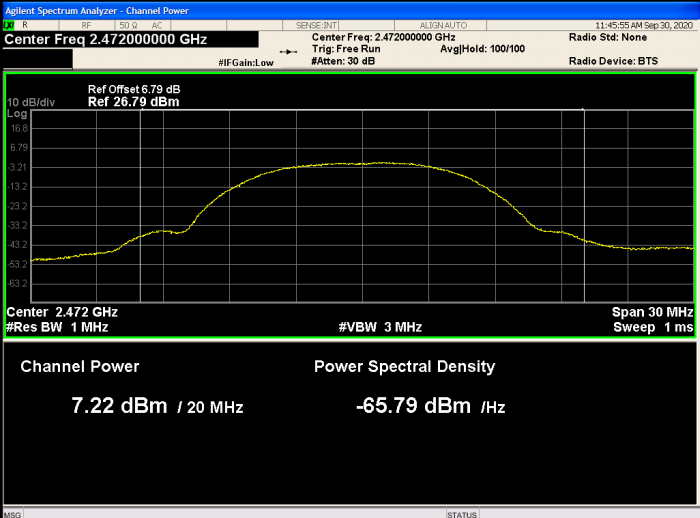
Mode	Channel.	Maximum Output Power [dBm]
802.11b	LCH	
	MCH	
	HCH	

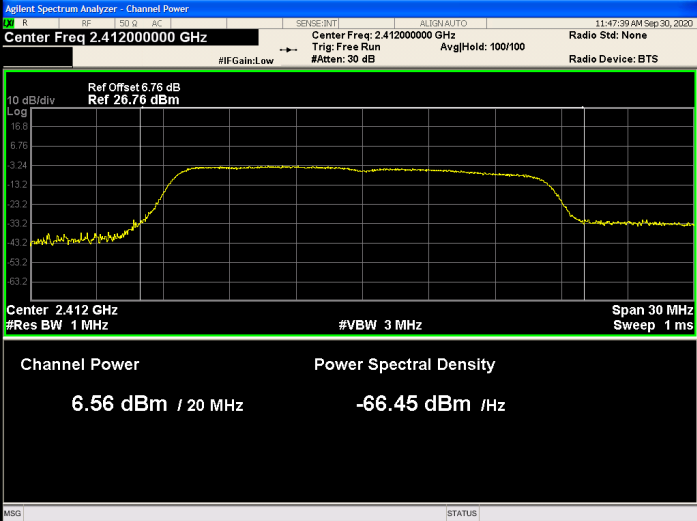
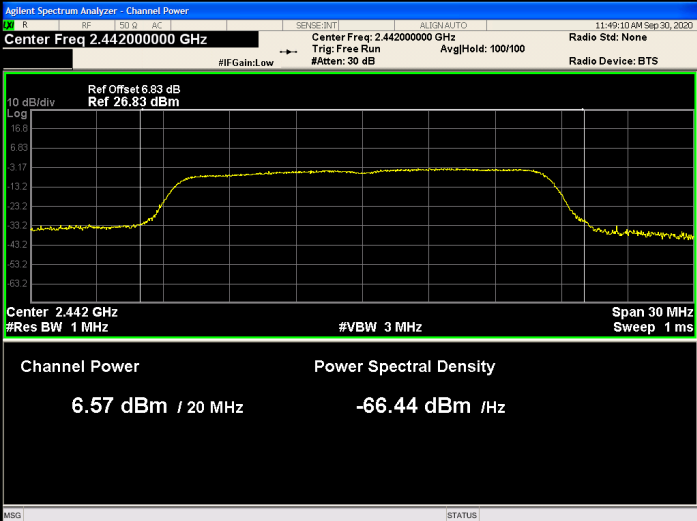
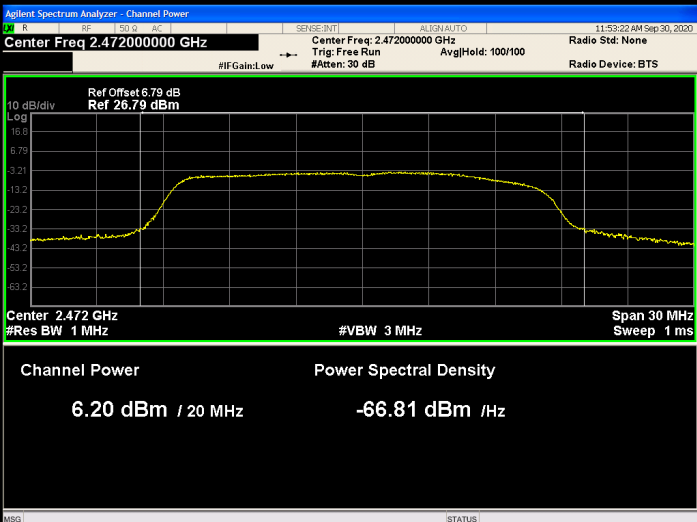
	LCH		
802.11g	MCH		
	HCH		

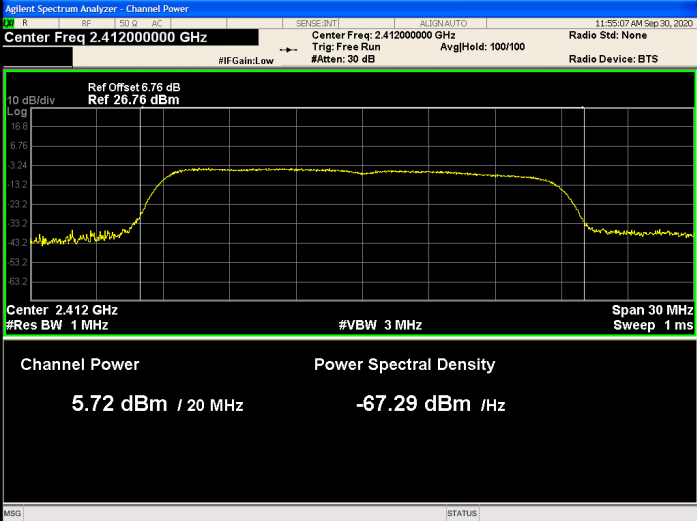
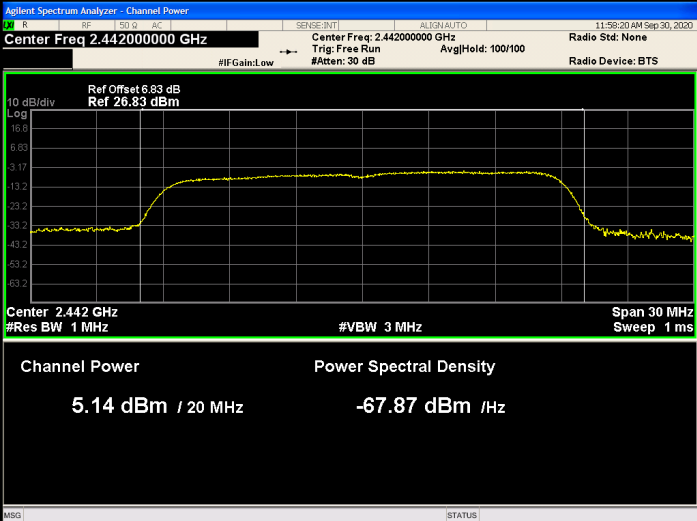
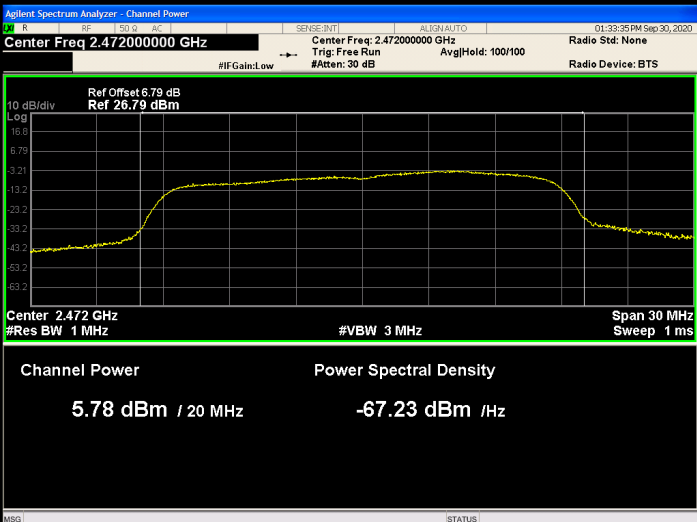
	LCH	
802.11n(HT20)	MCH	
	HCH	

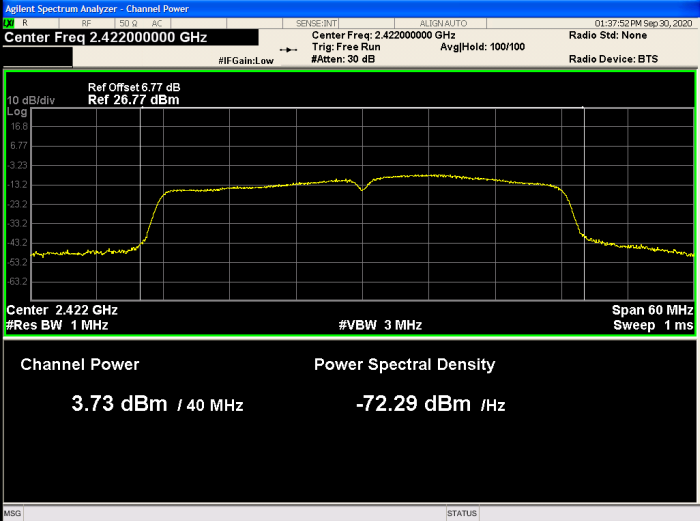
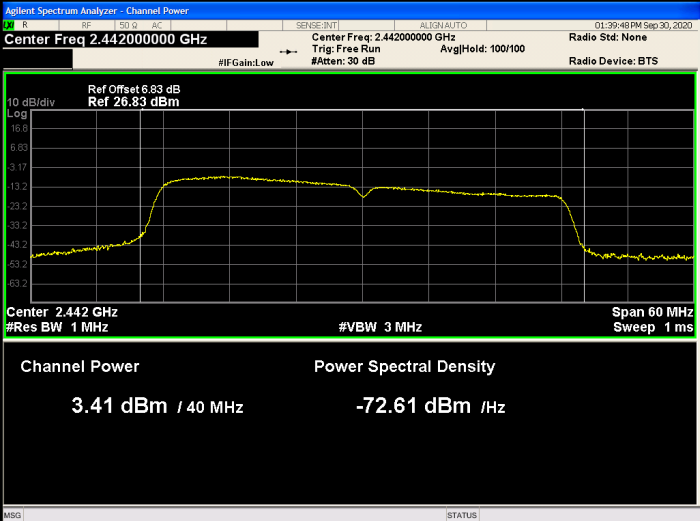
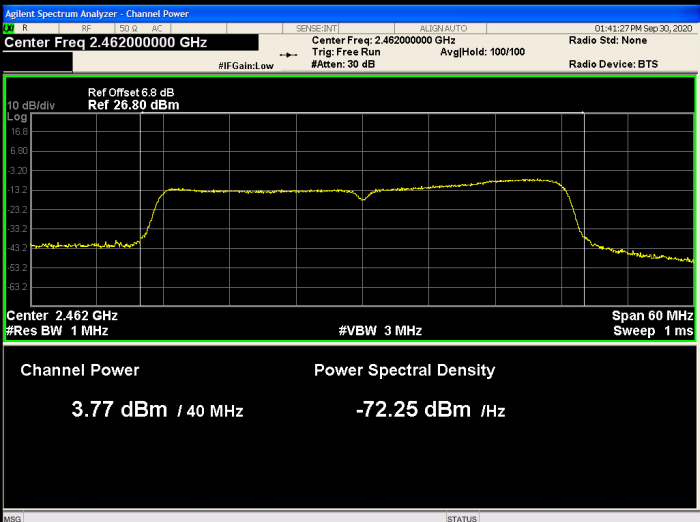
	LCH	
802.11n(HT40)	MCH	
	HCH	

ANT 3

Mode3	Channel.	Maximum Output Power [dBm]
802.11b	LCH	
	MCH	
	HCH	

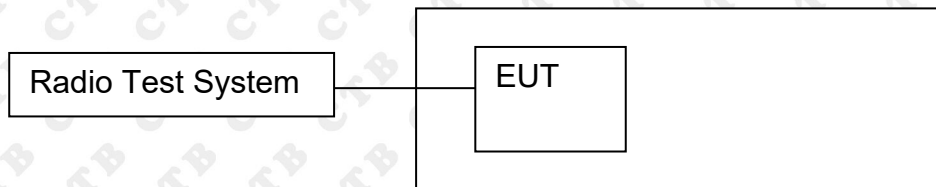
	LCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Channel Power: 6.56 dBm / 20 MHz Power Spectral Density: -66.45 dBm / Hz
802.11g	MCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.442000000 GHz Channel Power: 6.57 dBm / 20 MHz Power Spectral Density: -66.44 dBm / Hz
	HCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.472000000 GHz Channel Power: 6.20 dBm / 20 MHz Power Spectral Density: -66.81 dBm / Hz

	LCH	
802.11n(HT20)	MCH	
	HCH	

	LCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.422000000 GHz Channel Power: 3.73 dBm / 40 MHz Power Spectral Density: -72.29 dBm /Hz
802.11n(HT40)	MCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.442000000 GHz Channel Power: 3.41 dBm / 40 MHz Power Spectral Density: -72.61 dBm /Hz
	HCH	 Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Channel Power: 3.77 dBm / 40 MHz Power Spectral Density: -72.25 dBm /Hz

10. 6DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

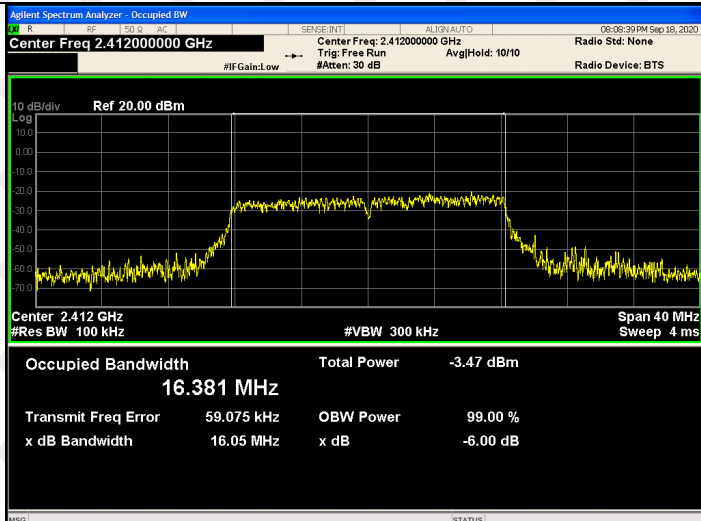
ANT 1

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	8.7791	500	PASS
	MCH	9.0818	500	PASS
	HCH	8.4193	500	PASS
802.11g	LCH	16.0525	500	PASS
	MCH	11.7052	500	PASS
	HCH	16.4145	500	PASS
802.11n(HT20)	LCH	15.0046	500	PASS
	MCH	13.1225	500	PASS
	HCH	17.6124	500	PASS
802.11n(HT40)	LCH	35.4268	500	PASS
	MCH	36.4869	500	PASS
	HCH	35.7576	500	PASS

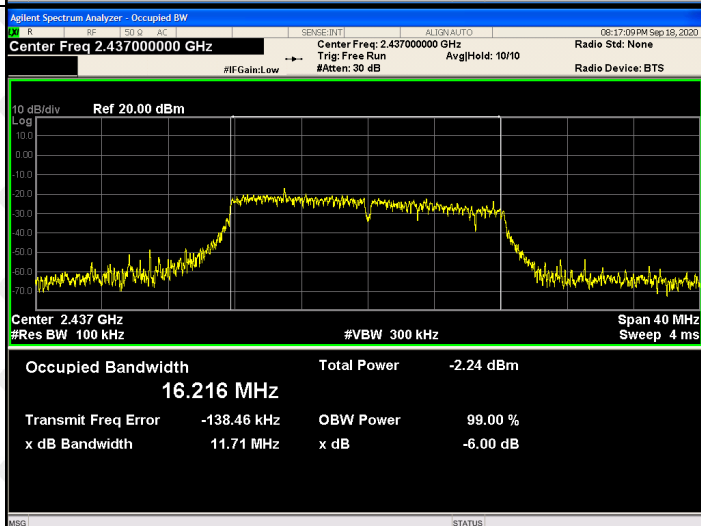
Test Graph:



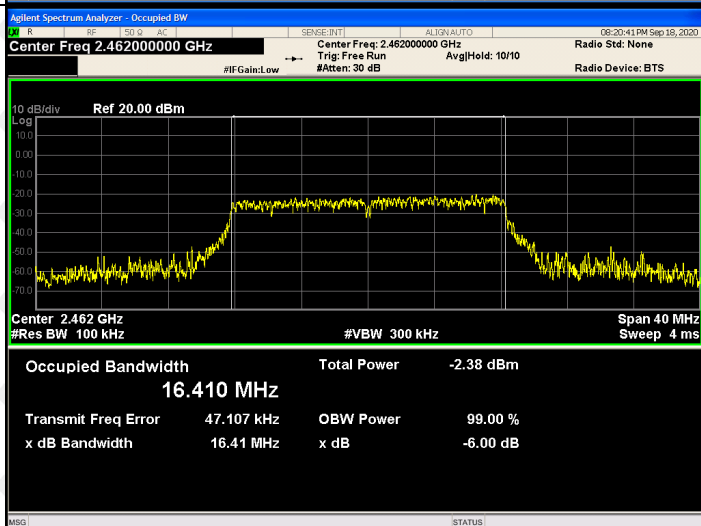
802.11g/LCH

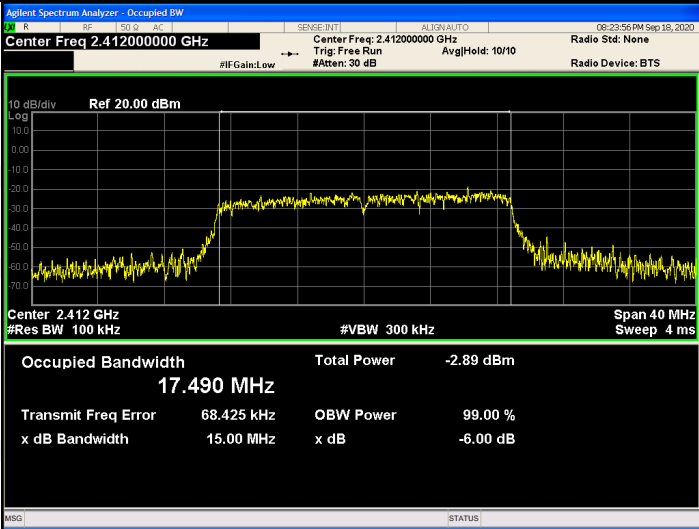
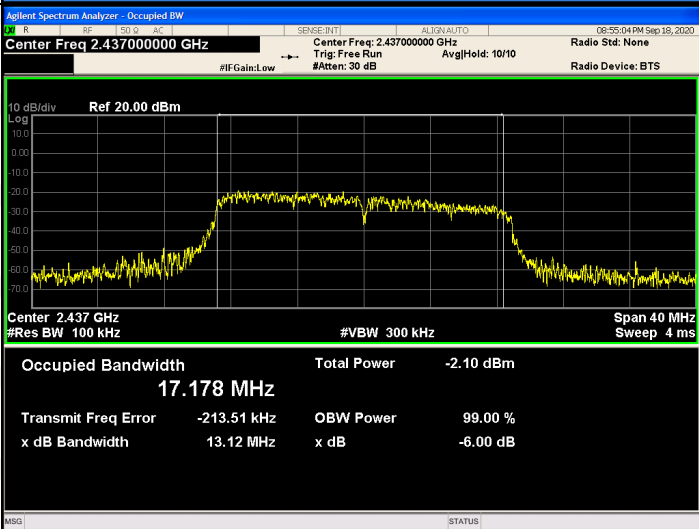
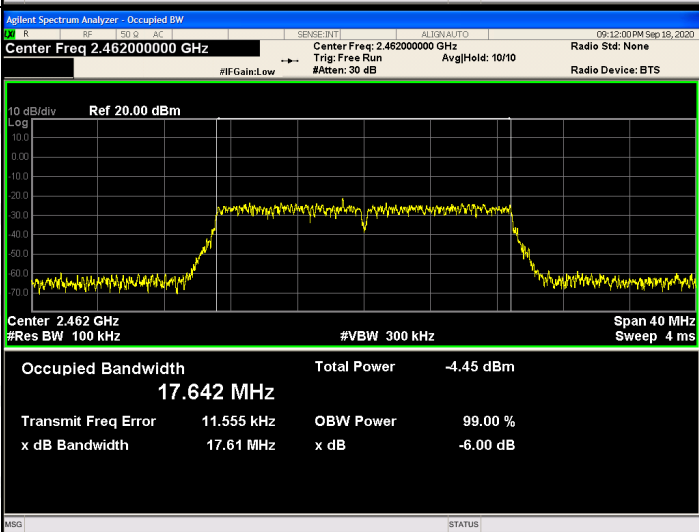


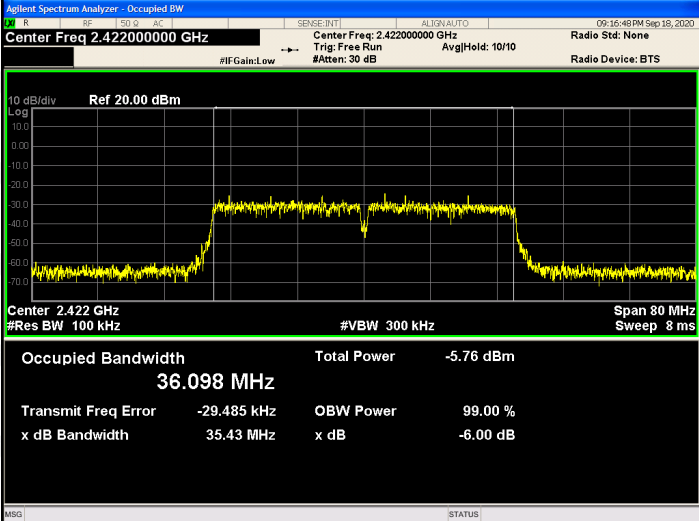
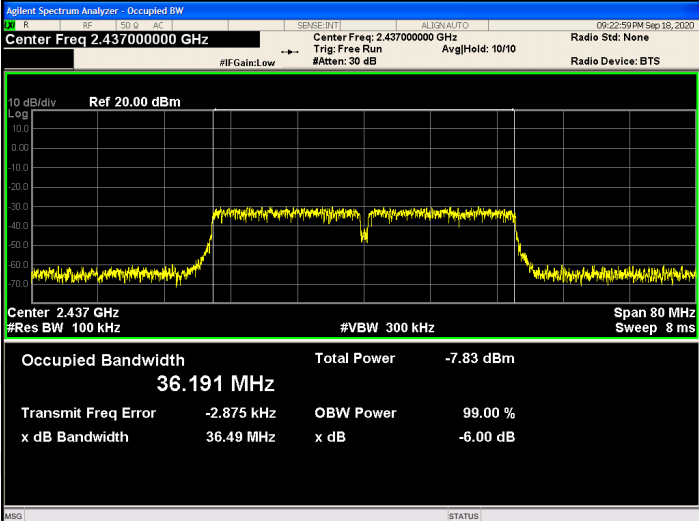
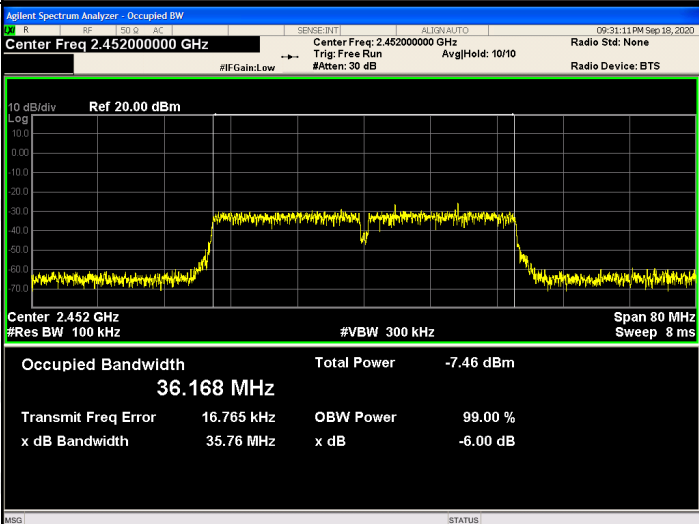
802.11g/MCH



802.11g/HCH



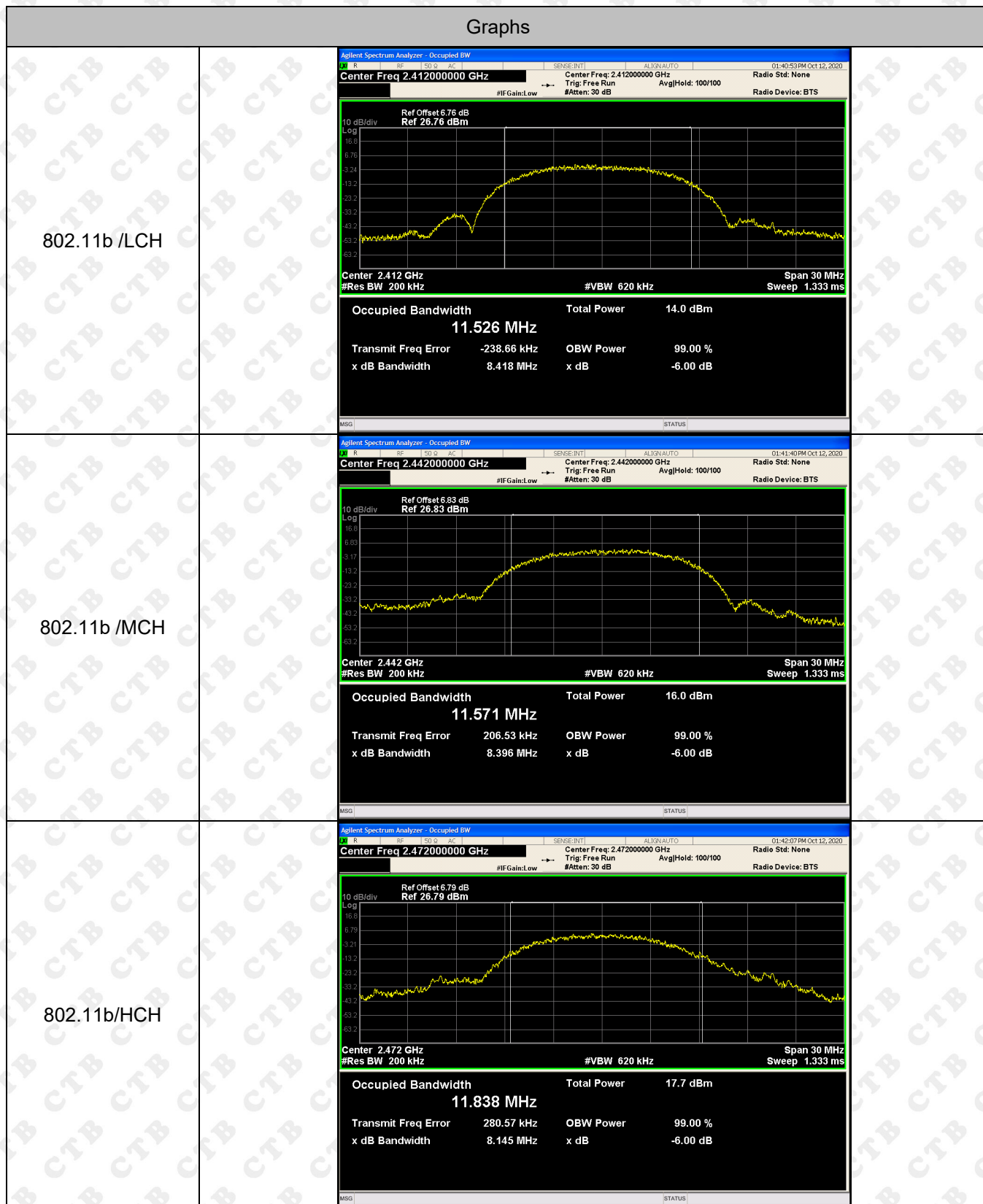
802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Center Freq: 2.41200000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB Ref 20.00 dBm 10 dB/div Log Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4 ms Occupied Bandwidth 17.490 MHz Total Power -2.89 dBm Transmit Freq Error 68.425 kHz OBW Power 99.00 % x dB Bandwidth 15.00 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Center Freq: 2.43700000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB Ref 20.00 dBm 10 dB/div Log Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4 ms Occupied Bandwidth 17.178 MHz Total Power -2.10 dBm Transmit Freq Error -213.51 kHz OBW Power 99.00 % x dB Bandwidth 13.12 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Center Freq: 2.46200000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB Ref 20.00 dBm 10 dB/div Log Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4 ms Occupied Bandwidth 17.642 MHz Total Power -4.45 dBm Transmit Freq Error 11.555 kHz OBW Power 99.00 % x dB Bandwidth 17.61 MHz x dB -6.00 dB

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Center Freq: 2.42200000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.098 MHz Total Power -5.76 dBm Transmit Freq Error -29.485 kHz OBW Power 99.00 % x dB Bandwidth 35.43 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Center Freq: 2.43700000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.191 MHz Total Power -7.83 dBm Transmit Freq Error -2.875 kHz OBW Power 99.00 % x dB Bandwidth 36.49 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Center Freq: 2.45200000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB Ref 20.00 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 36.168 MHz Total Power -7.46 dBm Transmit Freq Error 16.765 kHz OBW Power 99.00 % x dB Bandwidth 35.76 MHz x dB -6.00 dB

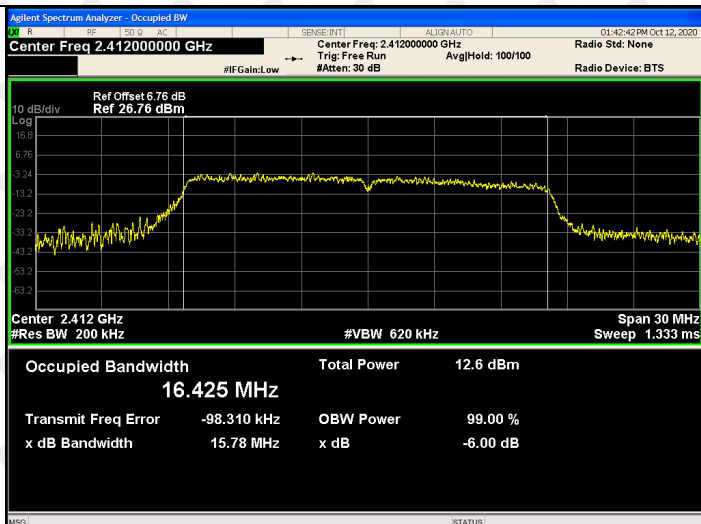
ANT 2

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	8.418	500	PASS
	MCH	8.396	500	PASS
	HCH	8.145	500	PASS
802.11g	LCH	15.78	500	PASS
	MCH	16.12	500	PASS
	HCH	14.39	500	PASS
802.11n(HT20)	LCH	15.77	500	PASS
	MCH	17.10	500	PASS
	HCH	14.63	500	PASS
802.11n(HT40)	LCH	35.47	500	PASS
	MCH	33.89	500	PASS
	HCH	35.28	500	PASS

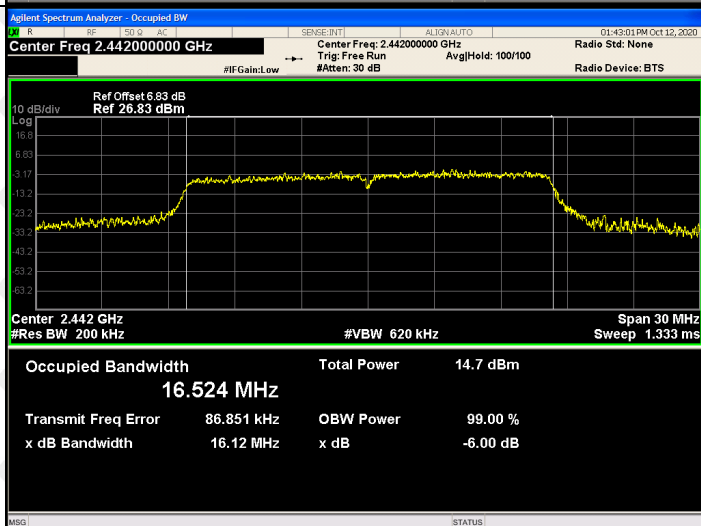
Test Graph:



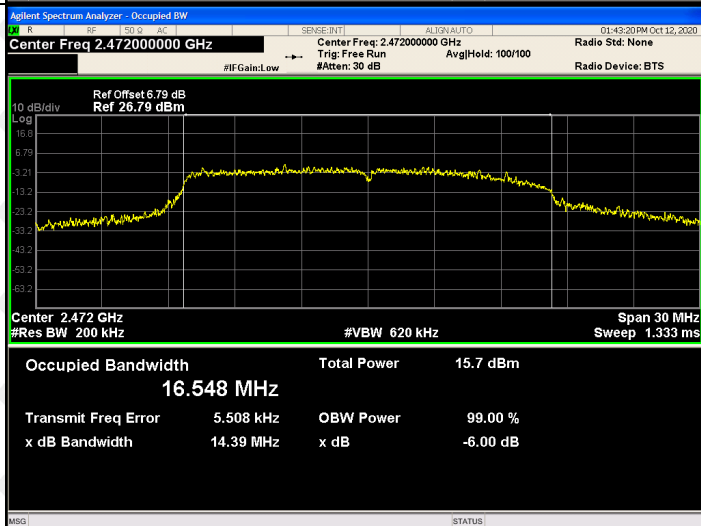
802.11g/LCH

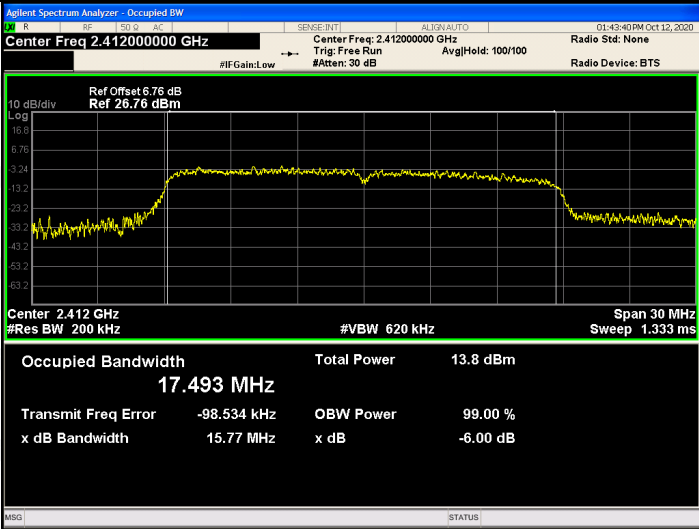
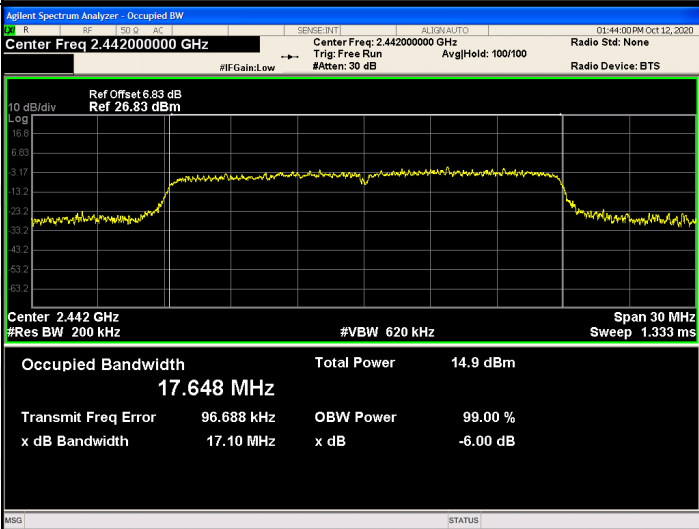
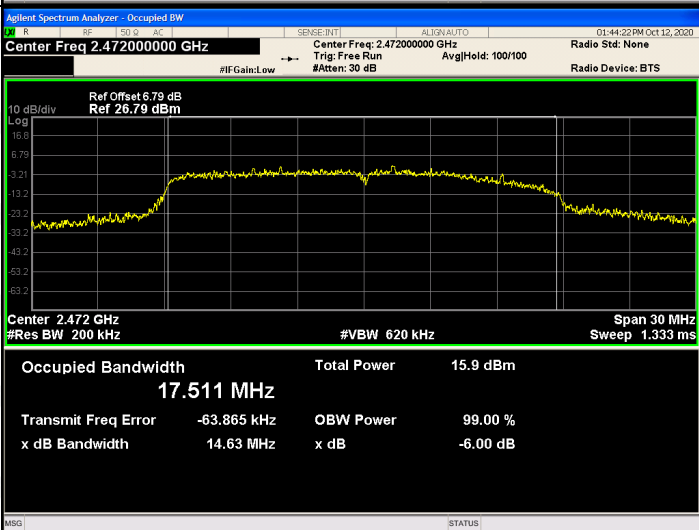


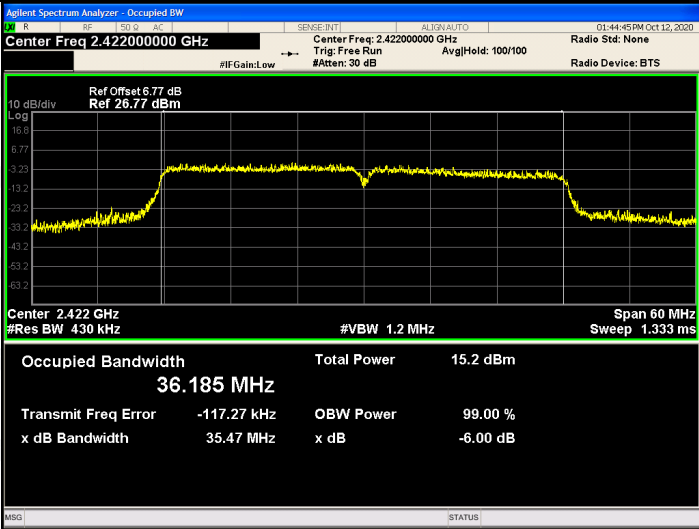
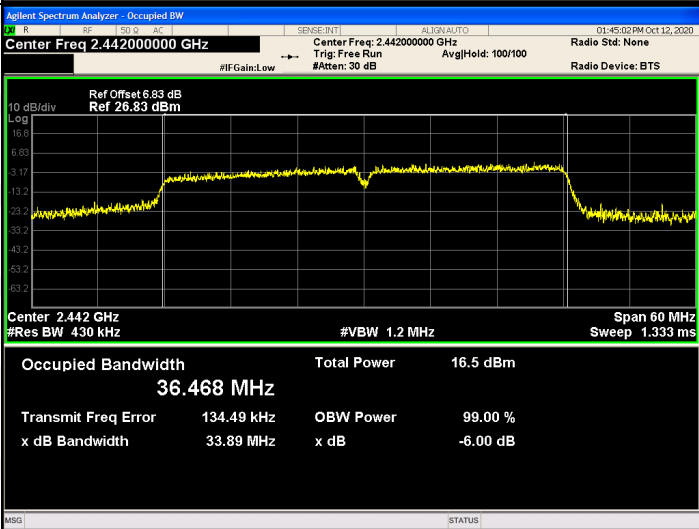
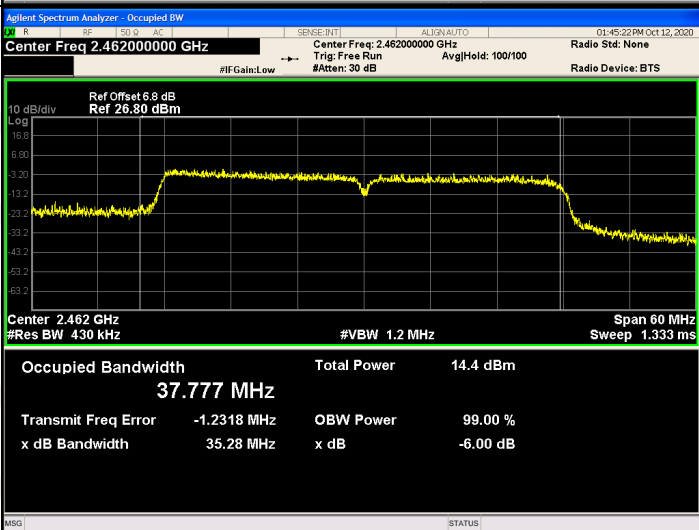
802.11g/MCH



802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset: 6.76 dB Ref 26.76 dBm Center 2.412 GHz #Res BW 200 kHz Occupied Bandwidth 17.493 MHz Total Power 13.8 dBm Transmit Freq Error -98.534 kHz OBW Power 99.00 % x dB Bandwidth 15.77 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.442000000 GHz Ref Offset: 6.83 dB Ref 26.83 dBm Center 2.442 GHz #Res BW 200 kHz Occupied Bandwidth 17.648 MHz Total Power 14.9 dBm Transmit Freq Error 96.688 kHz OBW Power 99.00 % x dB Bandwidth 17.10 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.472000000 GHz Ref Offset: 6.79 dB Ref 26.79 dBm Center 2.472 GHz #Res BW 200 kHz Occupied Bandwidth 17.511 MHz Total Power 15.9 dBm Transmit Freq Error -63.865 kHz OBW Power 99.00 % x dB Bandwidth 14.63 MHz x dB -6.00 dB

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Center Freq: 2.42200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset: 6.77 dB Ref: 26.77 dBm Center 2.422 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms Occupied Bandwidth 36.185 MHz Total Power 15.2 dBm Transmit Freq Error -117.27 kHz OBW Power 99.00 % x dB Bandwidth 35.47 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.44200000 GHz Center Freq: 2.44200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset: 6.83 dB Ref: 26.83 dBm Center 2.442 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms Occupied Bandwidth 36.468 MHz Total Power 16.5 dBm Transmit Freq Error 134.49 kHz OBW Power 99.00 % x dB Bandwidth 33.89 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Center Freq: 2.46200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset: 6.8 dB Ref: 26.80 dBm Center 2.462 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms Occupied Bandwidth 37.777 MHz Total Power 14.4 dBm Transmit Freq Error -1.2318 MHz OBW Power 99.00 % x dB Bandwidth 35.28 MHz x dB -6.00 dB

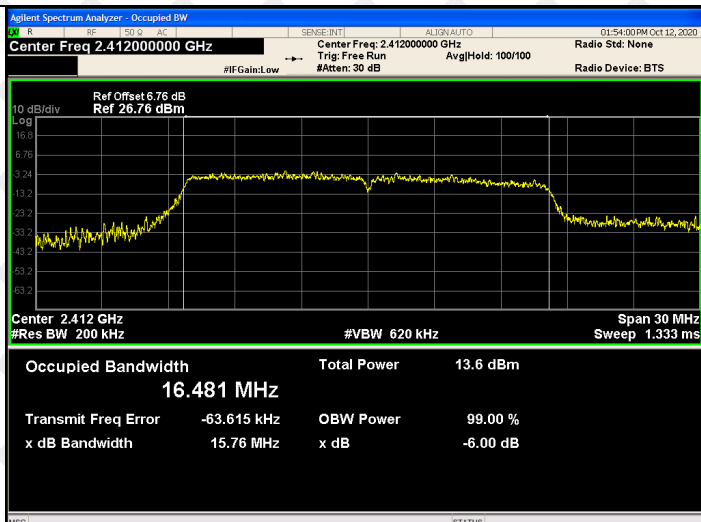
ANT 3

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	7.969	500	PASS
	MCH	9.116	500	PASS
	HCH	7.483	500	PASS
802.11g	LCH	15.76	500	PASS
	MCH	16.17	500	PASS
	HCH	13.63	500	PASS
802.11n(HT20)	LCH	16.49	500	PASS
	MCH	17.07	500	PASS
	HCH	14.83	500	PASS
802.11n(HT40)	LCH	35.26	500	PASS
	MCH	30.61	500	PASS
	HCH	33.61	500	PASS

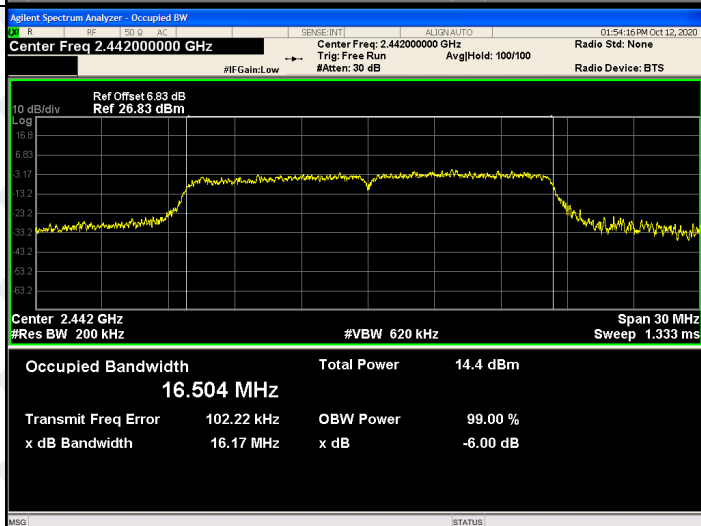
Test Graph:



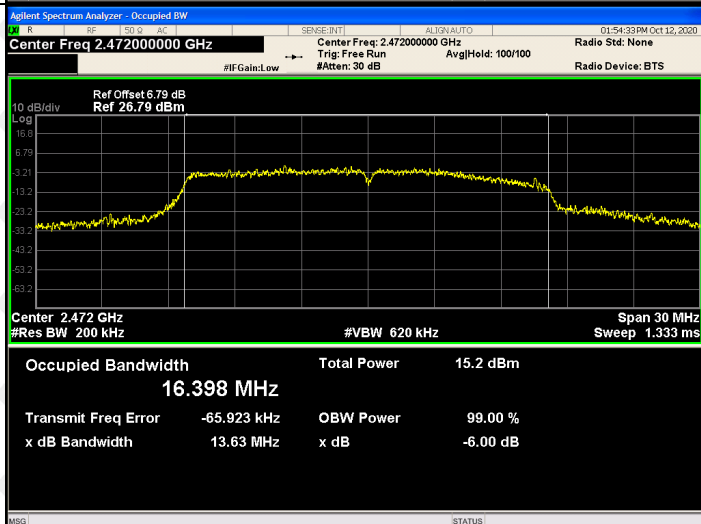
802.11g/LCH

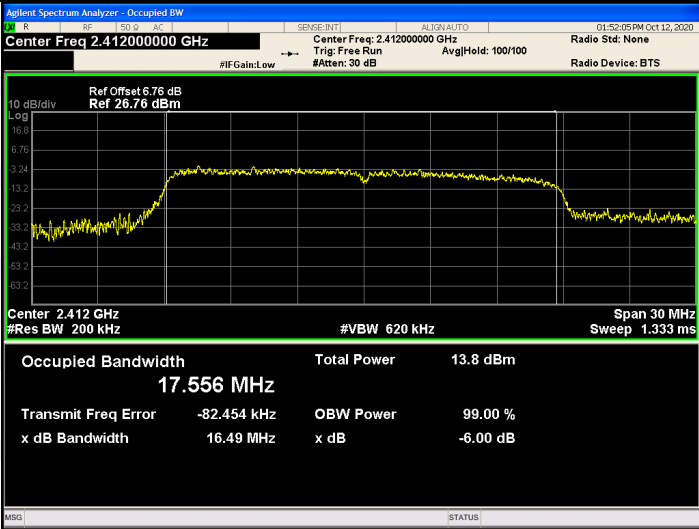
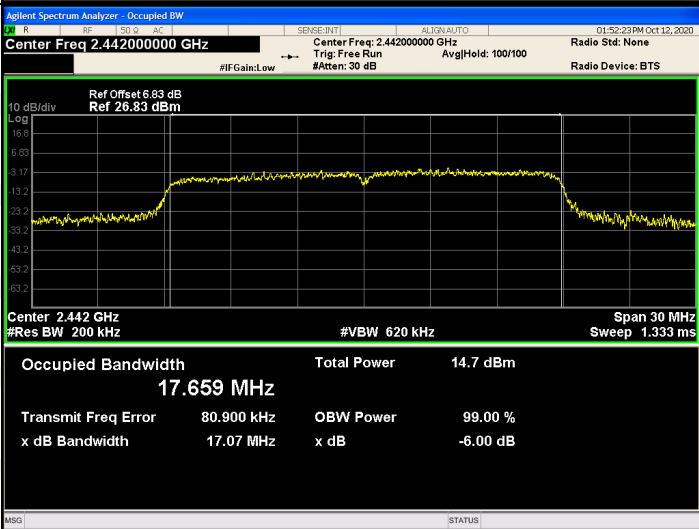
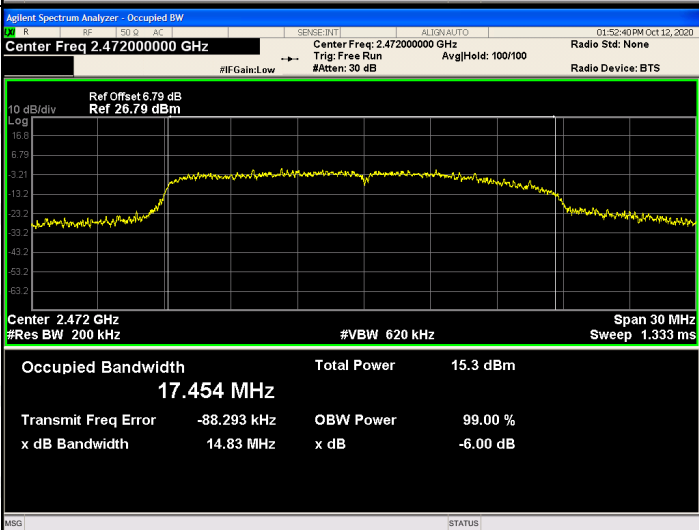


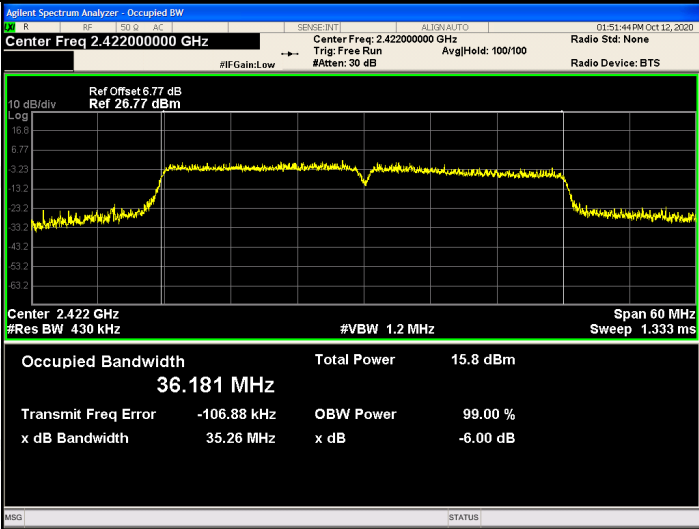
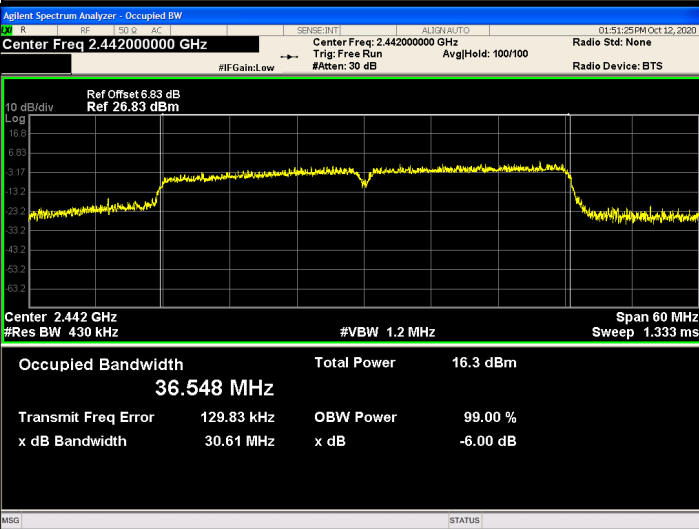
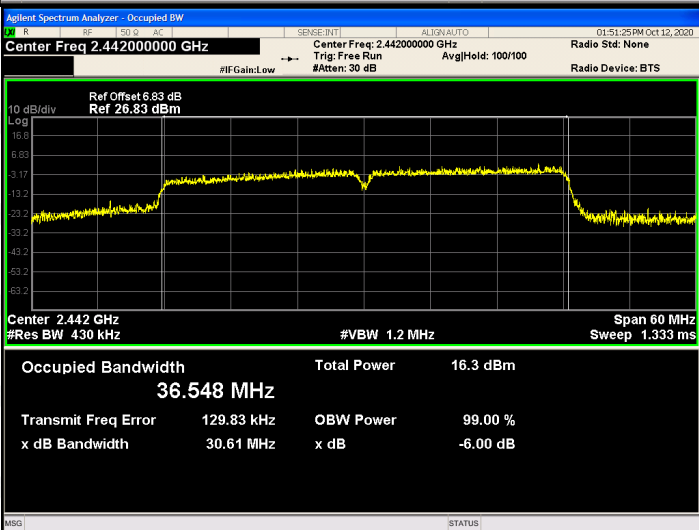
802.11g/MCH



802.11g/HCH

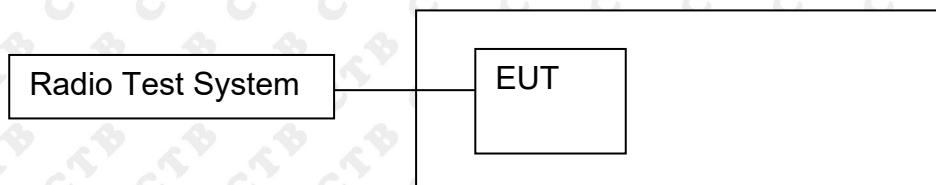


802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset: 6.76 dB Ref 26.76 dBm Center 2.412 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 17.556 MHz Total Power 13.8 dBm Transmit Freq Error -82.454 kHz OBW Power 99.00 % x dB Bandwidth 16.49 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.442000000 GHz Ref Offset: 6.83 dB Ref 26.83 dBm Center 2.442 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 17.659 MHz Total Power 14.7 dBm Transmit Freq Error 80.900 kHz OBW Power 99.00 % x dB Bandwidth 17.07 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.472000000 GHz Ref Offset: 6.79 dB Ref 26.79 dBm Center 2.472 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 17.454 MHz Total Power 15.3 dBm Transmit Freq Error -88.293 kHz OBW Power 99.00 % x dB Bandwidth 14.83 MHz x dB -6.00 dB

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Center Freq: 2.42200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset: 6.77 dB Ref: 26.77 dBm Center 2.422 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms Occupied Bandwidth 36.181 MHz Total Power 15.8 dBm Transmit Freq Error -106.88 kHz OBW Power 99.00 % x dB Bandwidth 35.26 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.44200000 GHz Center Freq: 2.44200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset: 6.83 dB Ref: 26.83 dBm Center 2.442 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms Occupied Bandwidth 36.548 MHz Total Power 16.3 dBm Transmit Freq Error 129.83 kHz OBW Power 99.00 % x dB Bandwidth 30.61 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.44200000 GHz Center Freq: 2.44200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset: 6.83 dB Ref: 26.83 dBm Center 2.442 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms Occupied Bandwidth 36.548 MHz Total Power 16.3 dBm Transmit Freq Error 129.83 kHz OBW Power 99.00 % x dB Bandwidth 30.61 MHz x dB -6.00 dB

11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

11.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = PEAK.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11.4 Test Result

ANT 1

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit(dBm)	Verdict
802.11b	LCH	-16.447	8	PASS
	MCH	-16.076	8	PASS
	HCH	-15.437	8	PASS
802.11g	LCH	-30.709	8	PASS
	MCH	-29.103	8	PASS
	HCH	-27.729	8	PASS
802.11n(H T20)	LCH	-30.628	8	PASS
	MCH	-28.957	8	PASS
	HCH	-31.89	8	PASS
802.11n(H T40)	LCH	-36.645	8	PASS
	MCH	-38.322	8	PASS
	HCH	-37.798	8	PASS

ANT2 +ANT 3

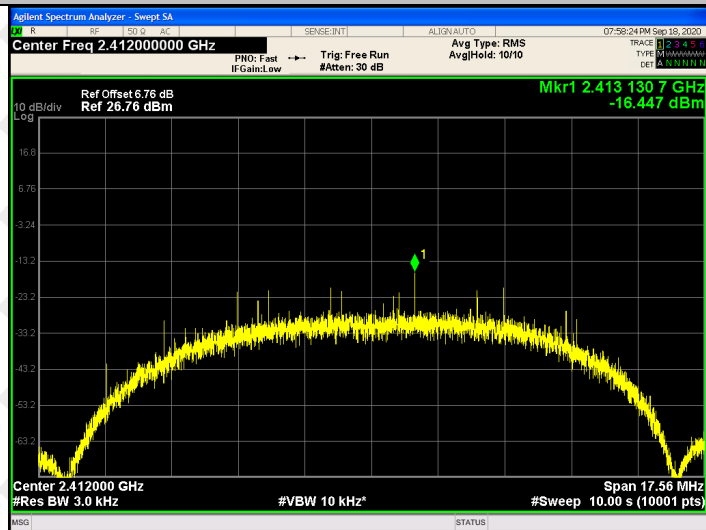
Mode	Channel.	Carrier Frequency Separation [MHz] ANT 2	Carrier Frequency Separation [MHz] ANT 3	Carrier Frequency Separation [MHz] Total	Limit(dBm)
802.11b	LCH	-9.477	-9.181	-6.316	8
	MCH	-9.495	-9.957	-6.710	8
	HCH	-9.817	-9.817	-6.807	8
802.11g	LCH	-12.692	-12.745	-9.708	8
	MCH	-12.667	-12.784	-9.715	8
	HCH	-12.307	-13.024	-9.640	8
802.11n(H T20)	LCH	-13.912	-13.987	-10.939	8
	MCH	-14.219	-14.003	-11.099	8
	HCH	-13.429	-12.56	-9.963	8
802.11n(H T40)	LCH	-16.916	-17.022	-13.958	8
	MCH	-17.806	-16.915	-14.327	8
	HCH	-16.97	-16.568	-13.754	8

Test Graph:

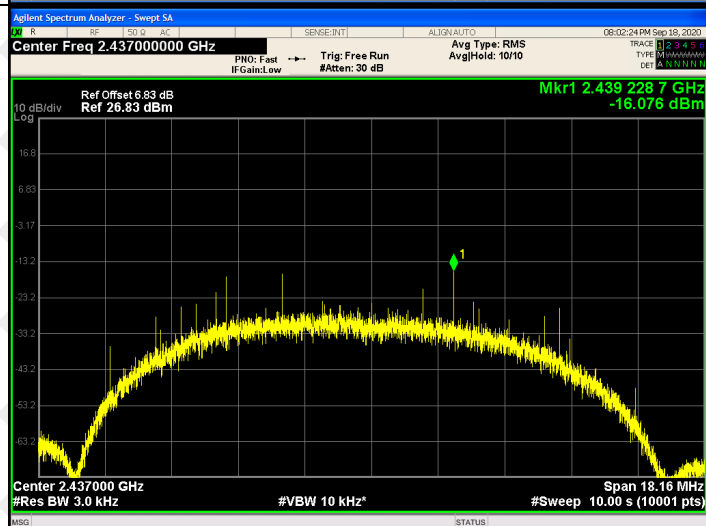
ANT 1

Graphs

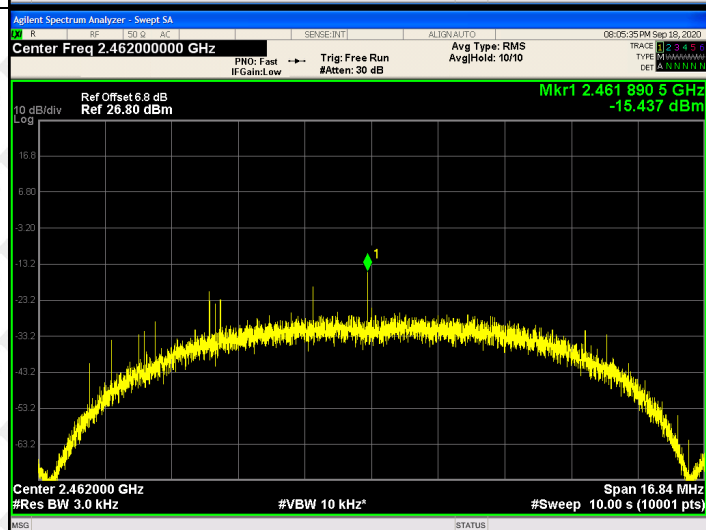
802.11b /LCH



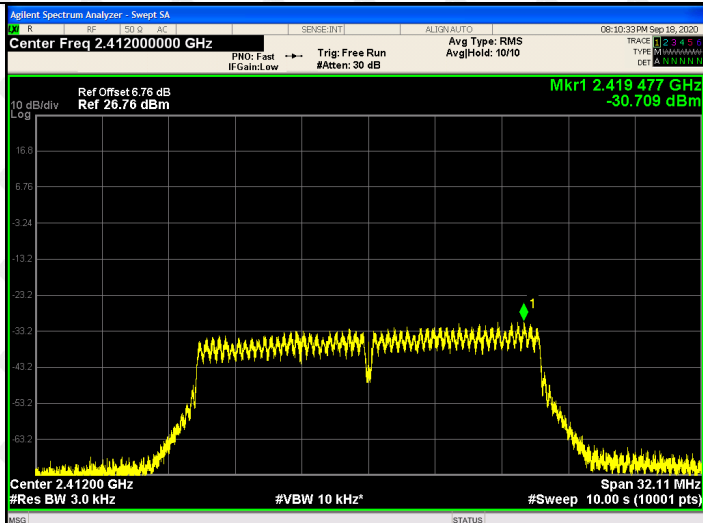
802.11b /MCH



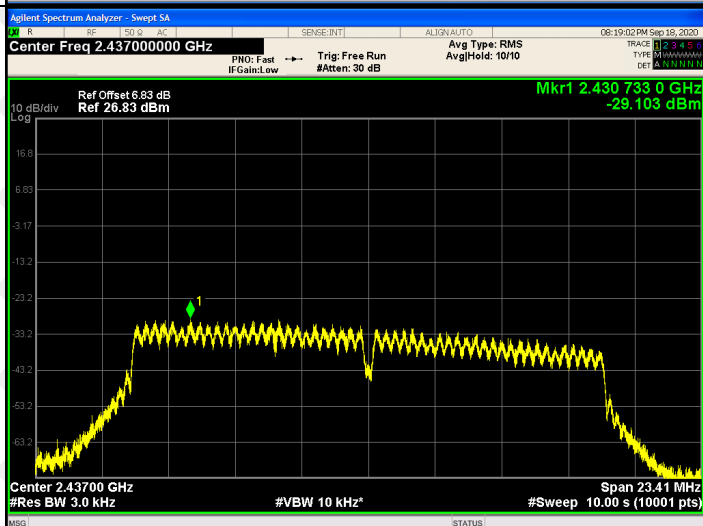
802.11b/HCH



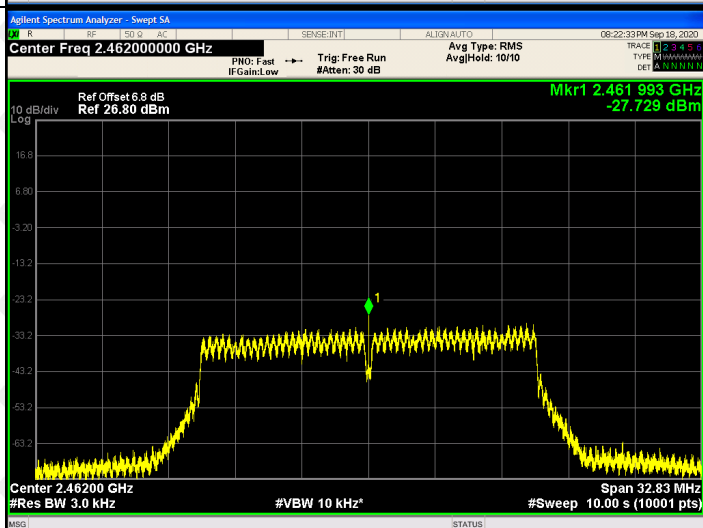
802.11g/LCH



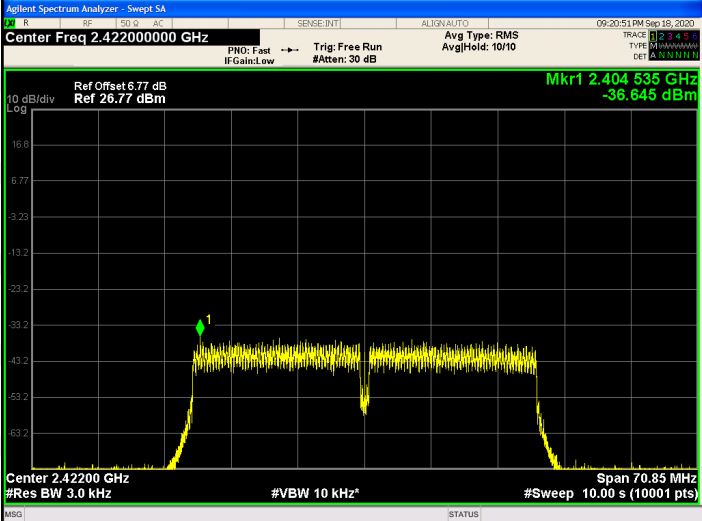
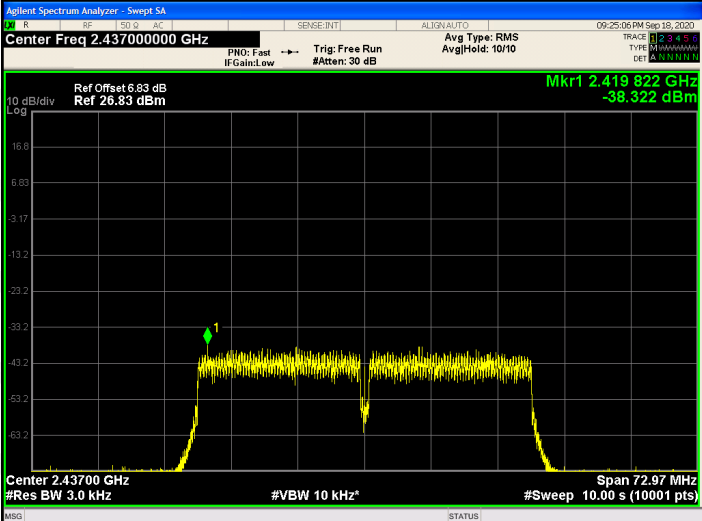
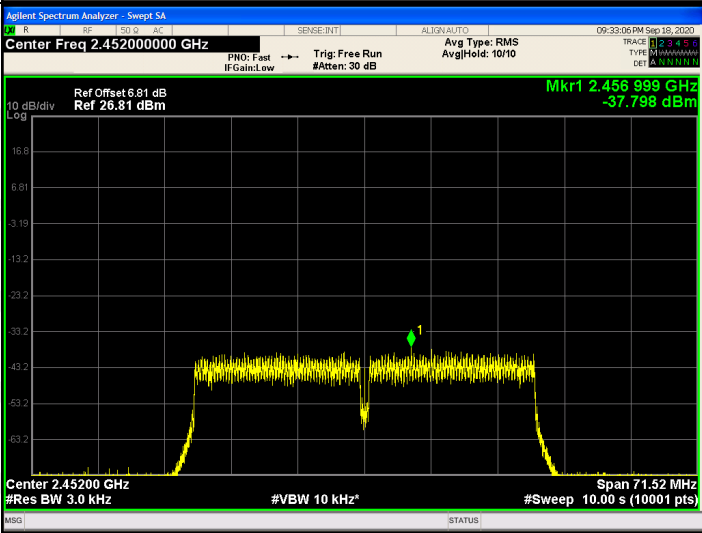
802.11g/MCH



802.11g/HCH



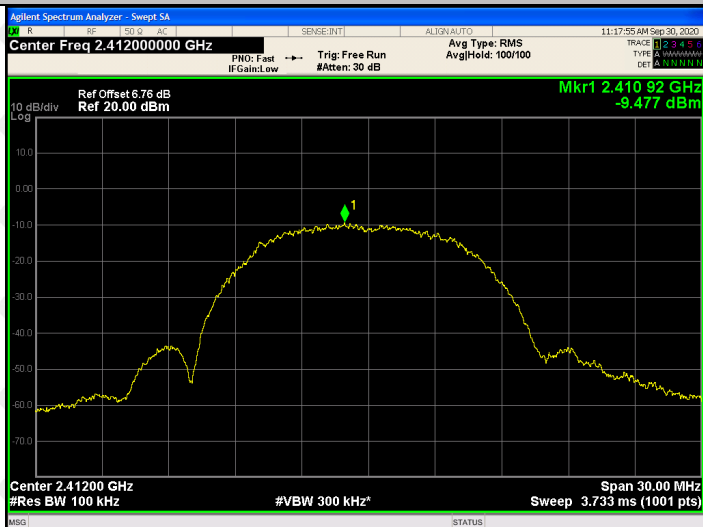
802.11n(HT20)/LC H	Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.76 dB Ref 26.76 dBm Mkr1 2.419 802 GHz -30.628 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz* #Sweep 10.00 s (10001 pts)
802.11n(HT20)/MC H	Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.83 dB Ref 26.83 dBm Mkr1 2.432 945 1 GHz -28.957 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz* #Sweep 10.00 s (10001 pts)
802.11n(HT20)/HC H	Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.8 dB Ref 26.80 dBm Mkr1 2.469 490 GHz -31.890 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz* #Sweep 10.00 s (10001 pts)

802.11n(HT40)/LC H	
802.11n(HT40)/MC H	
802.11n(HT40)/HC H	

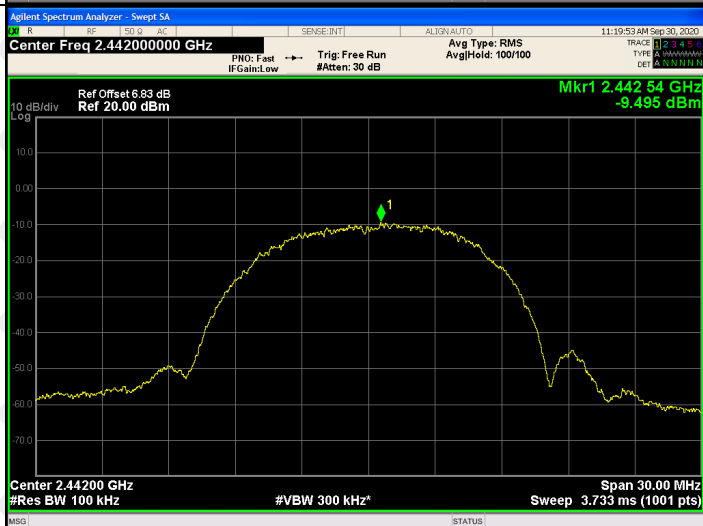
ANT 2

Graphs

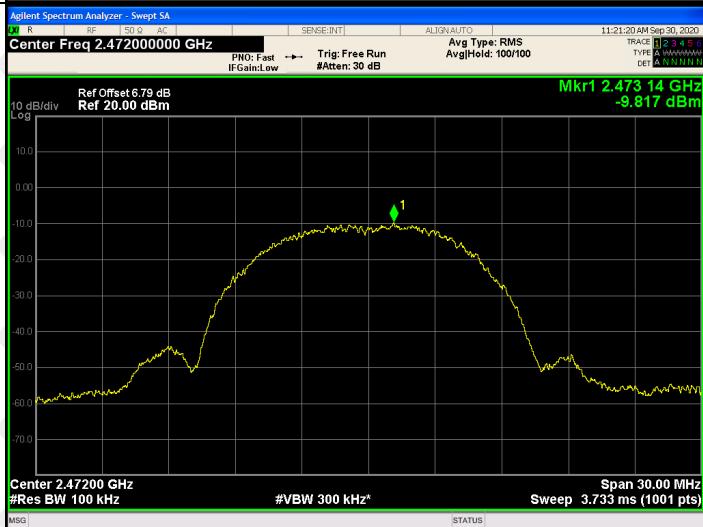
802.11b /LCH



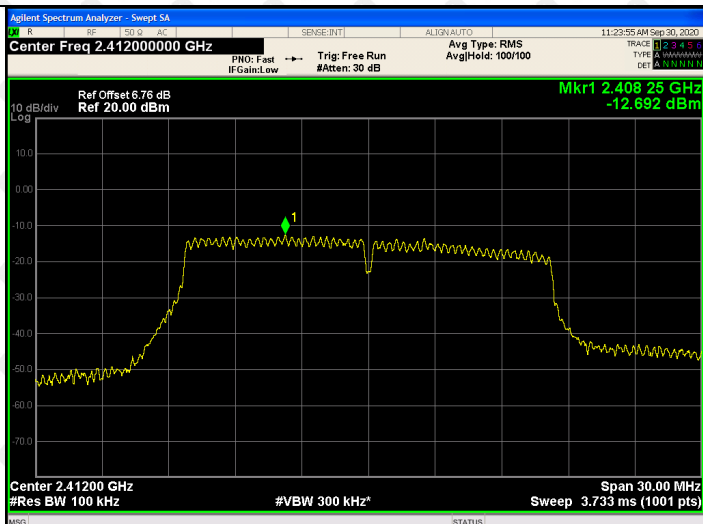
802.11b /MCH



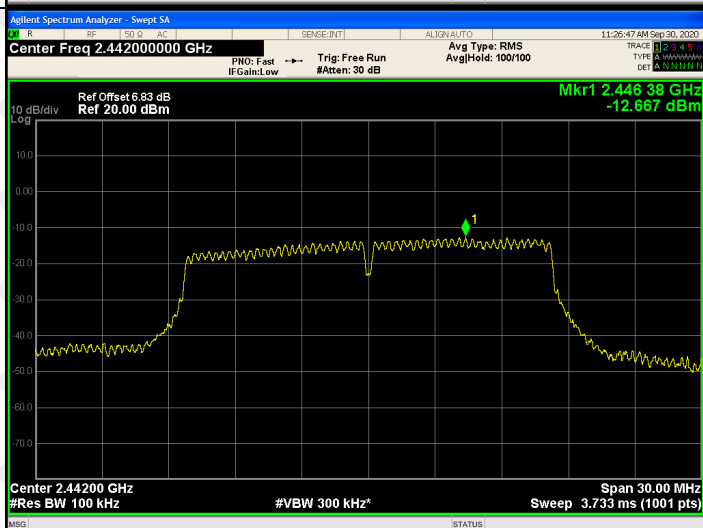
802.11b/HCH



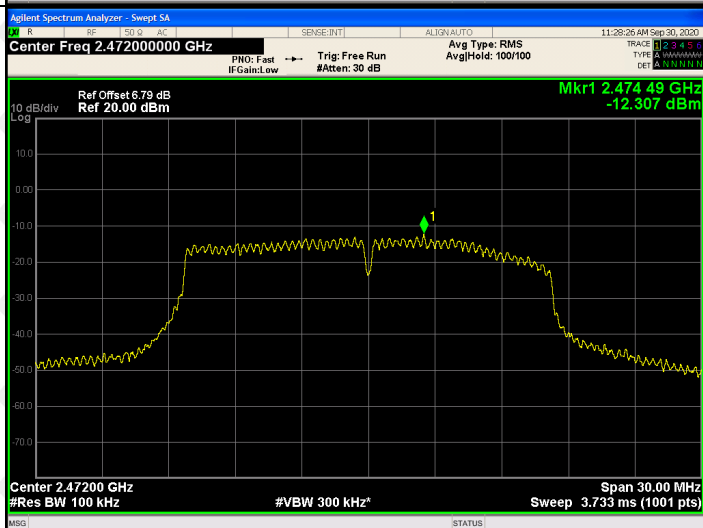
802.11g/LCH

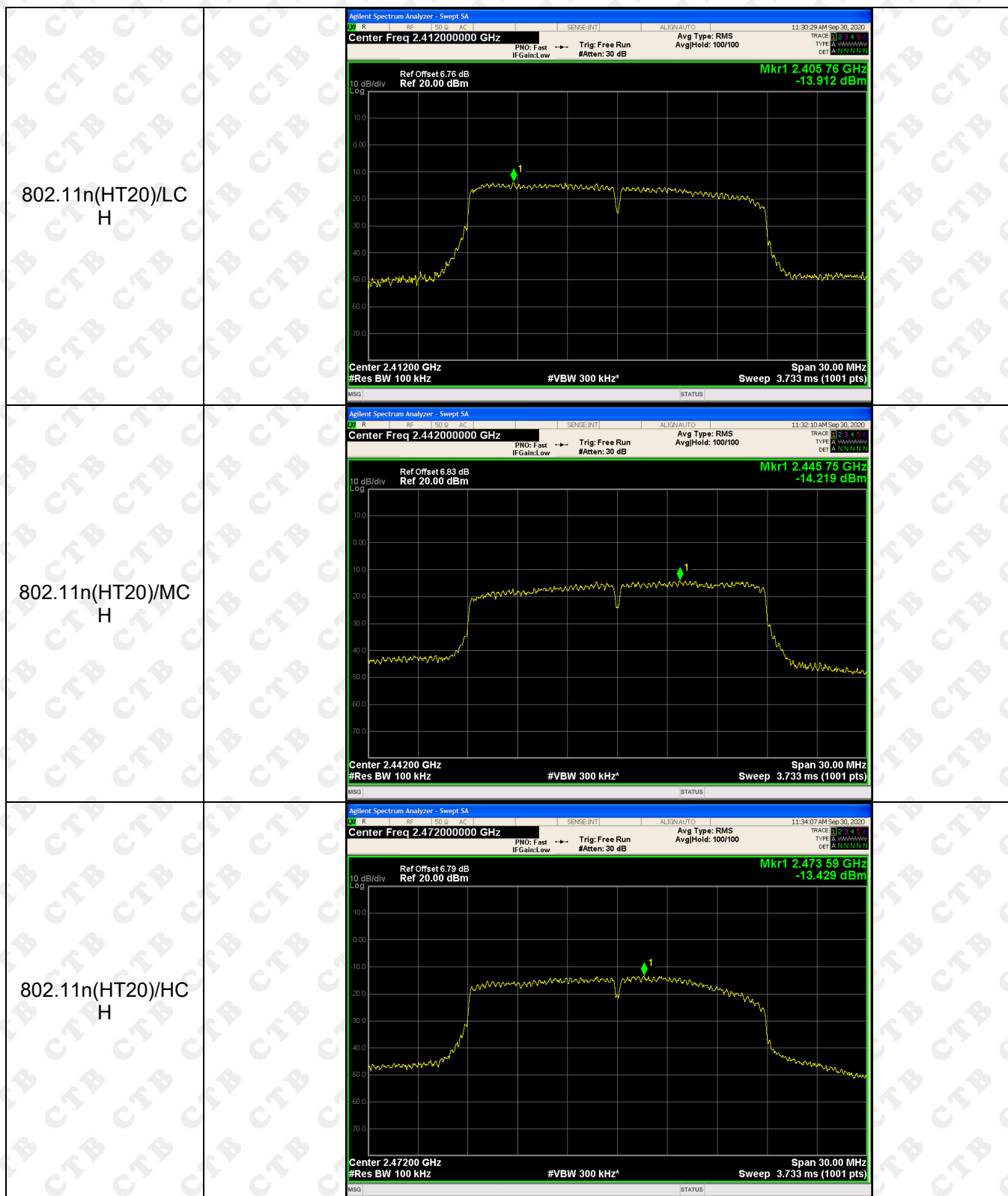


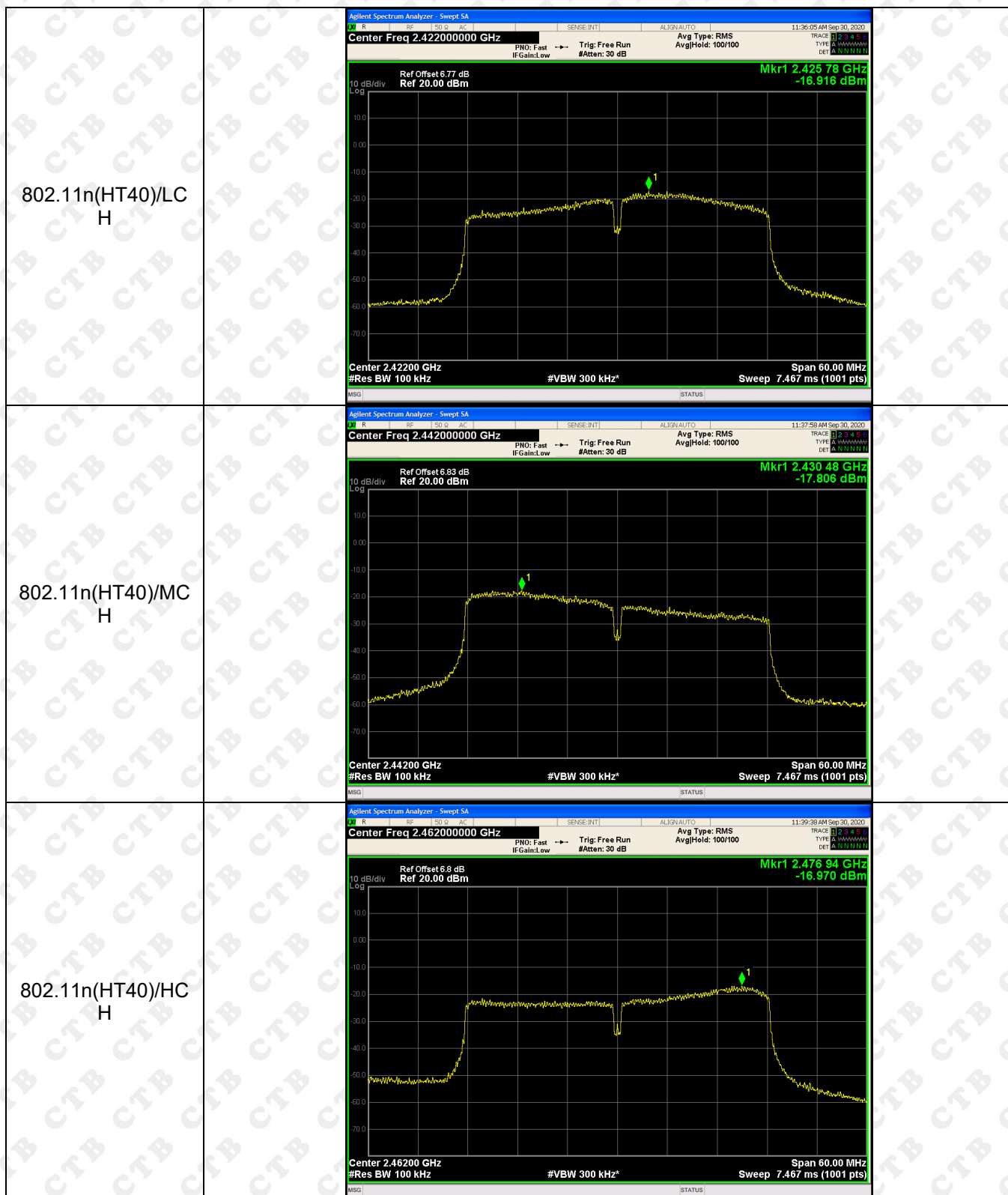
802.11g/MCH



802.11g/HCH



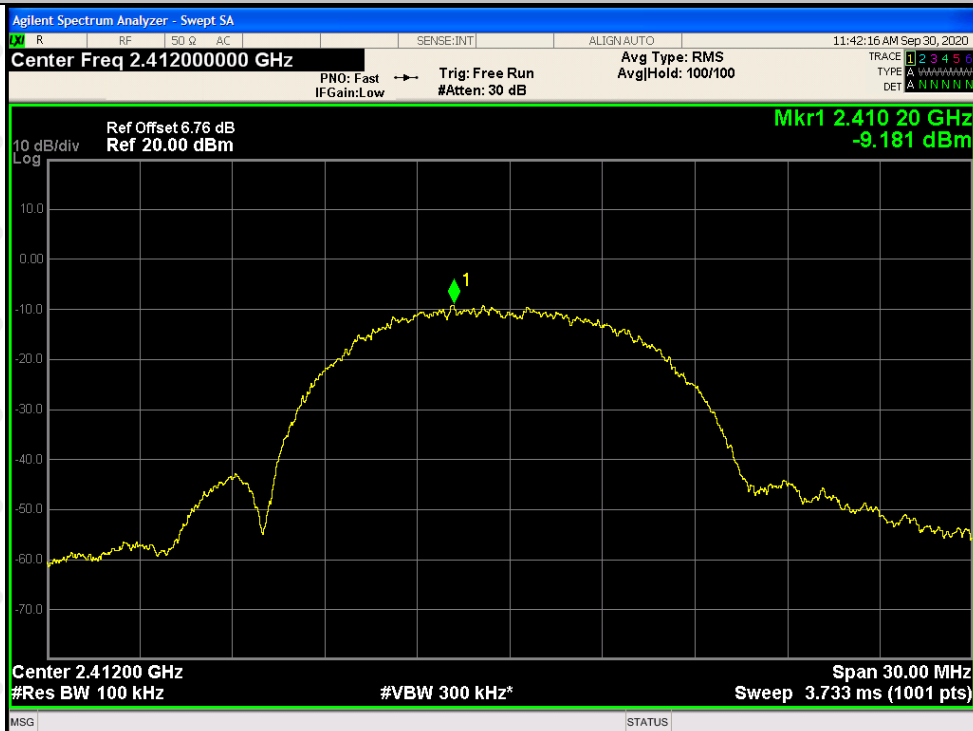




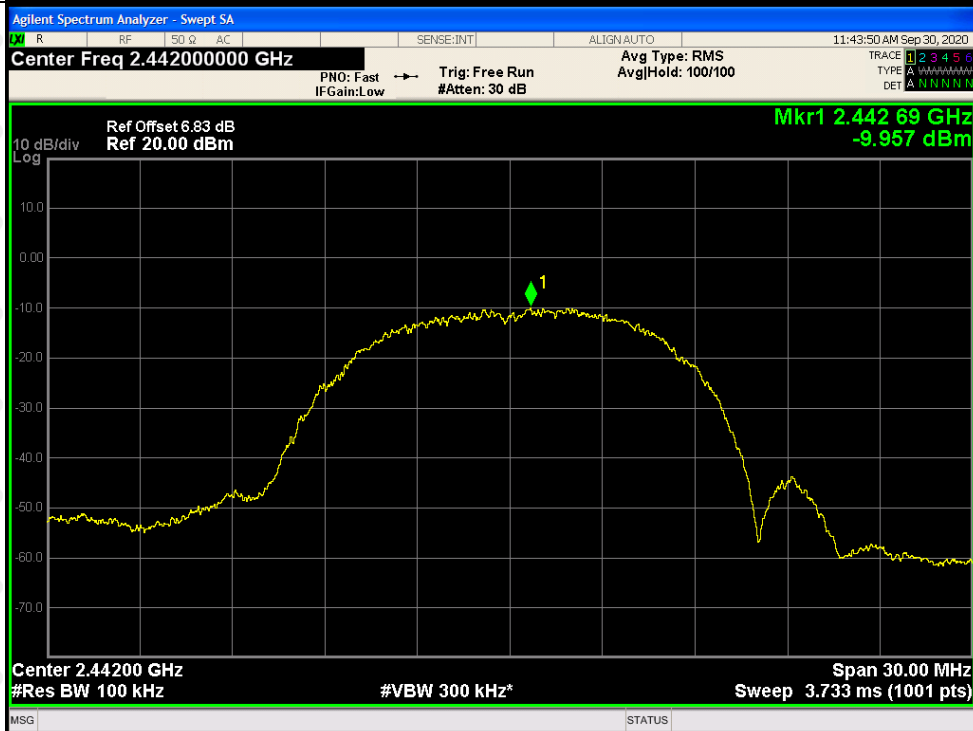
ANT 3

Graphs

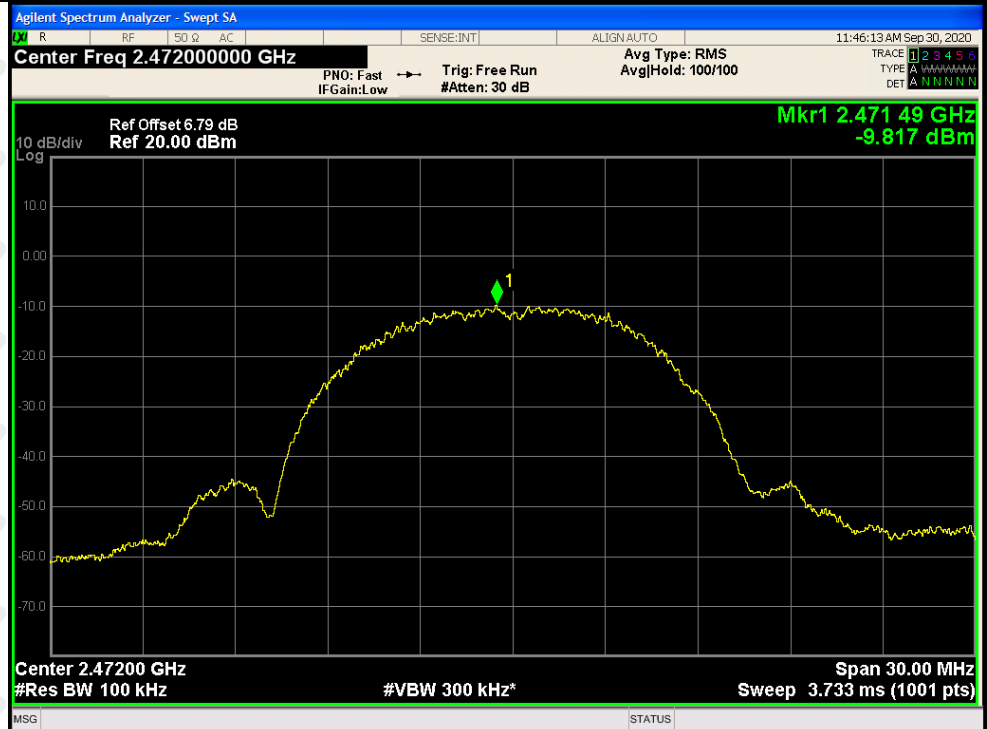
802.11b /LCH



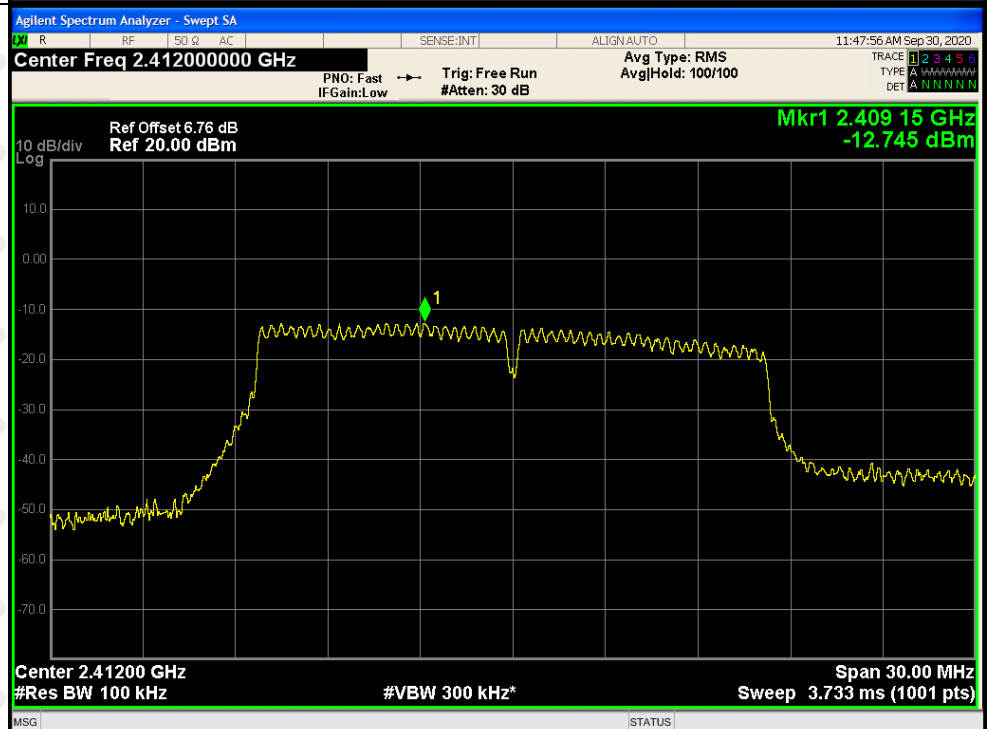
802.11b /MCH



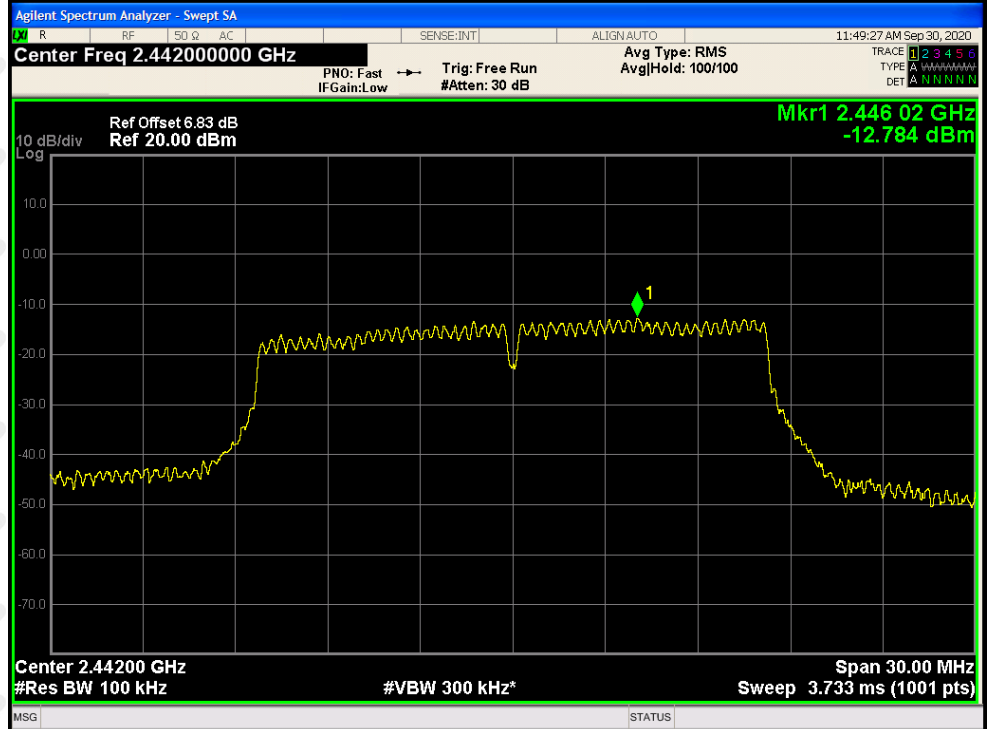
802.11b/HCH



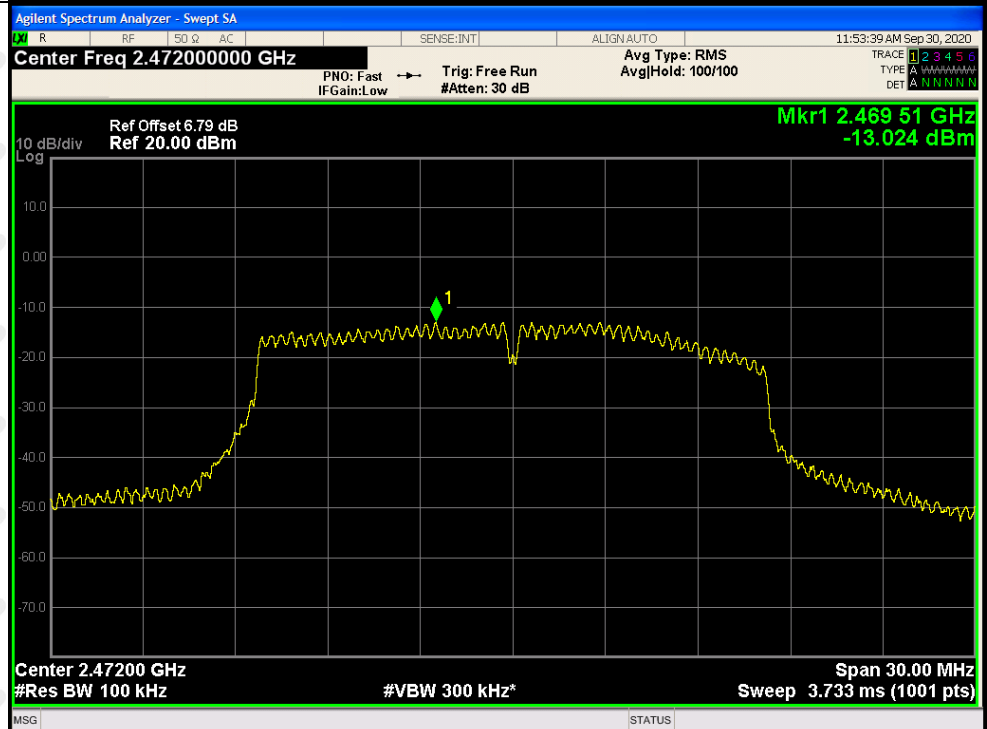
802.11g/LCH

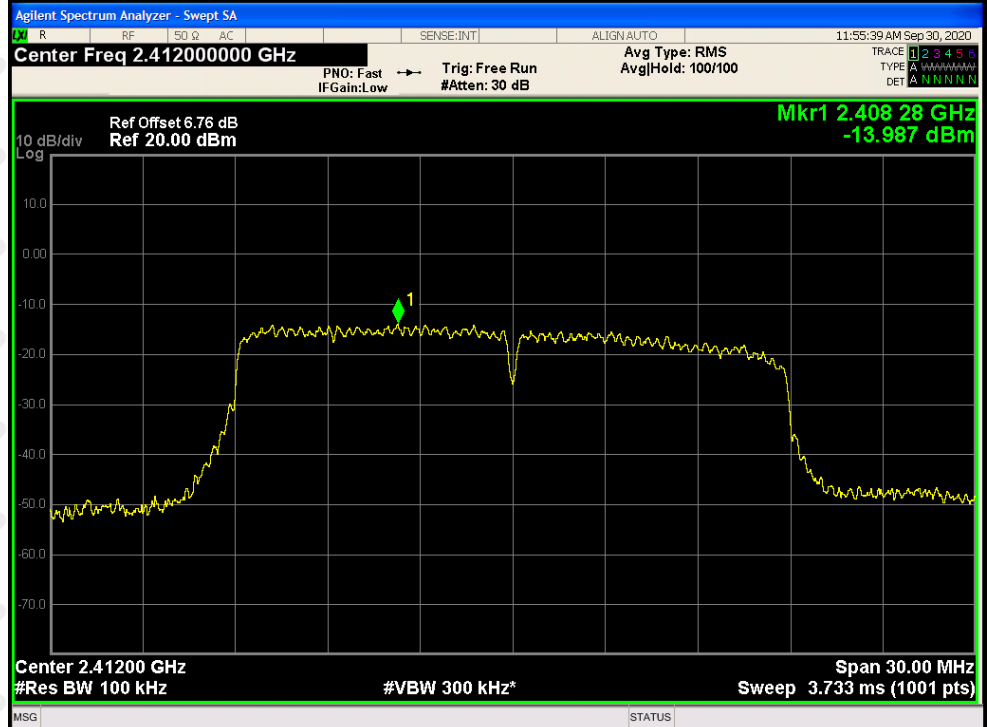
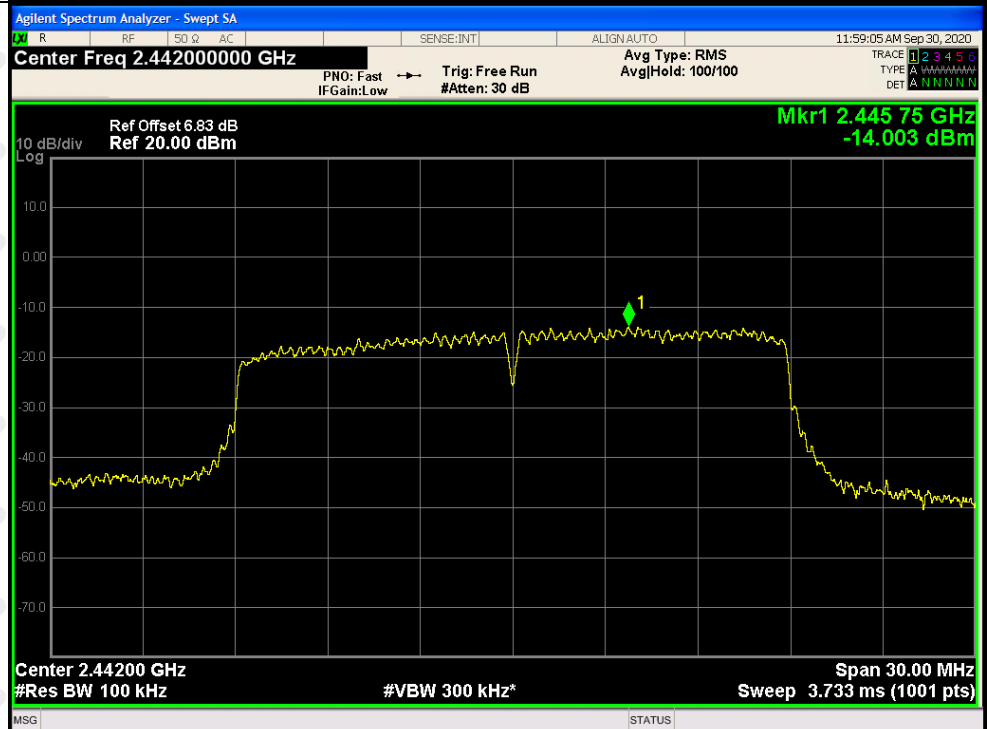


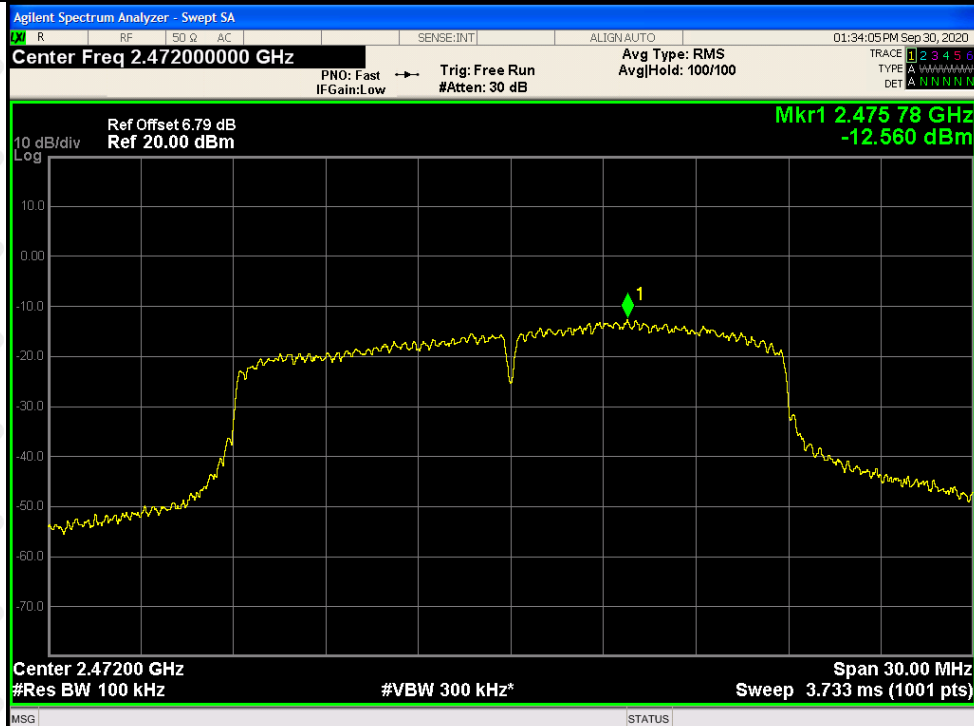
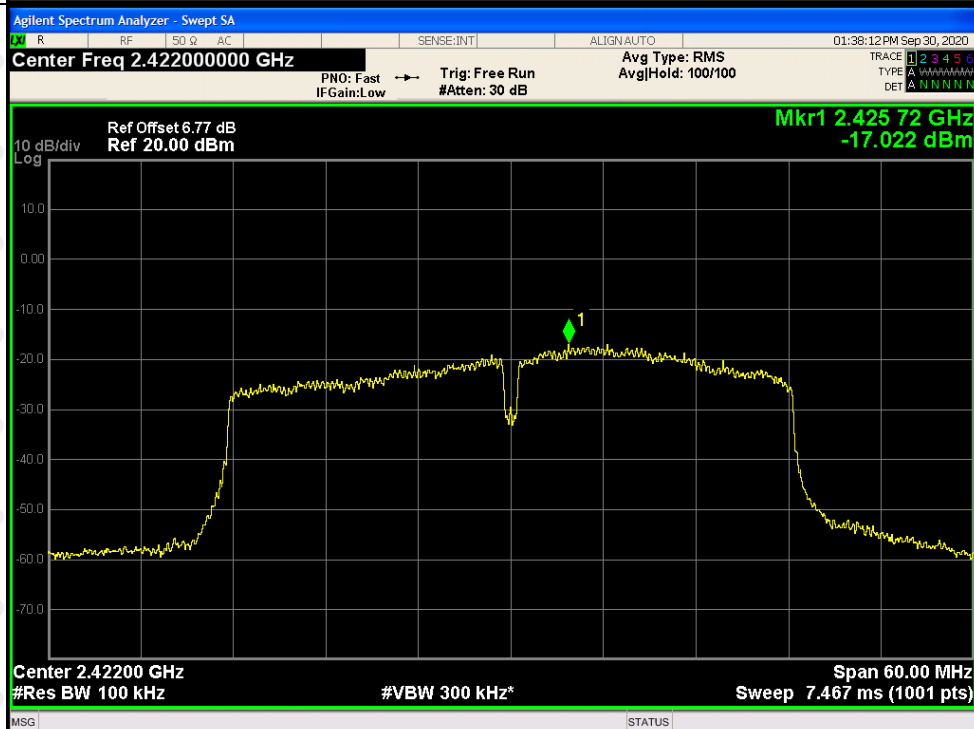
802.11g/MCH

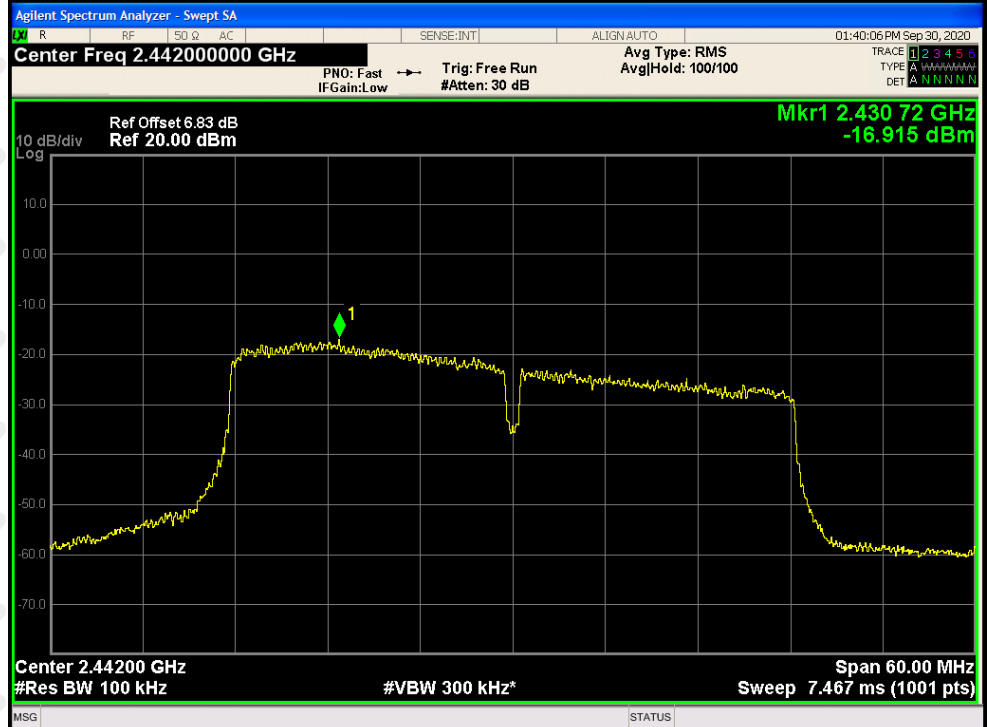
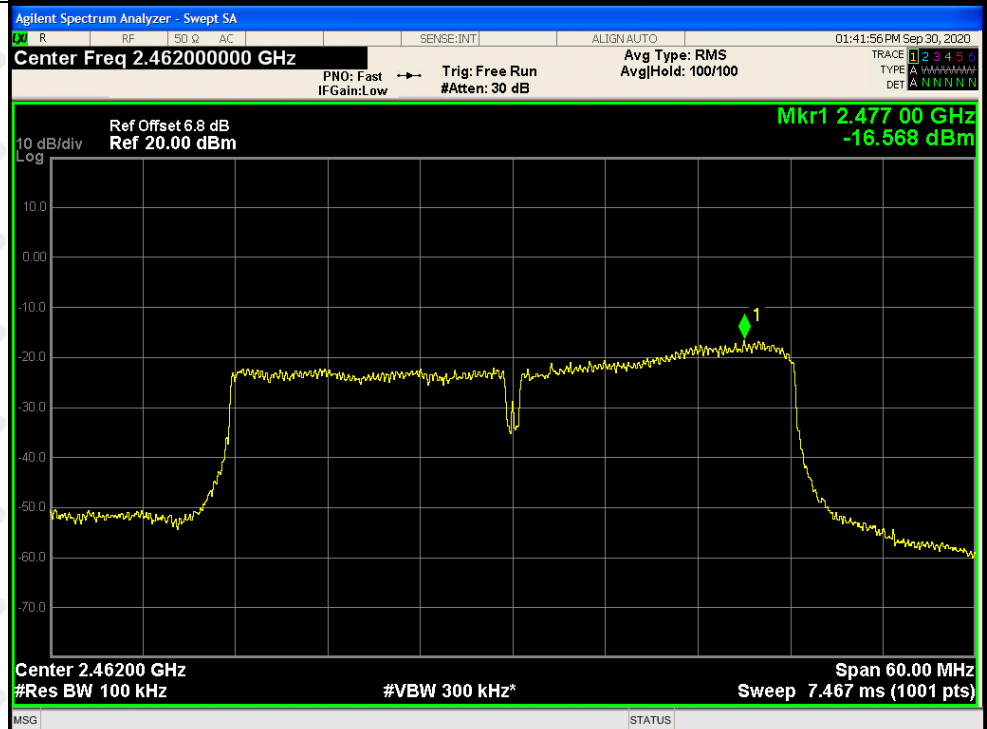


802.11g/HCH



802.11n(HT20)/LC
H

802.11n(HT20)/MC
H


802.11n(HT20)/HC
H

802.11n(HT40)/LC
H


802.11n(HT40)/MC
H

802.11n(HT40)/HC
H


12. ANTENNA REQUIREMENT

15.203 requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

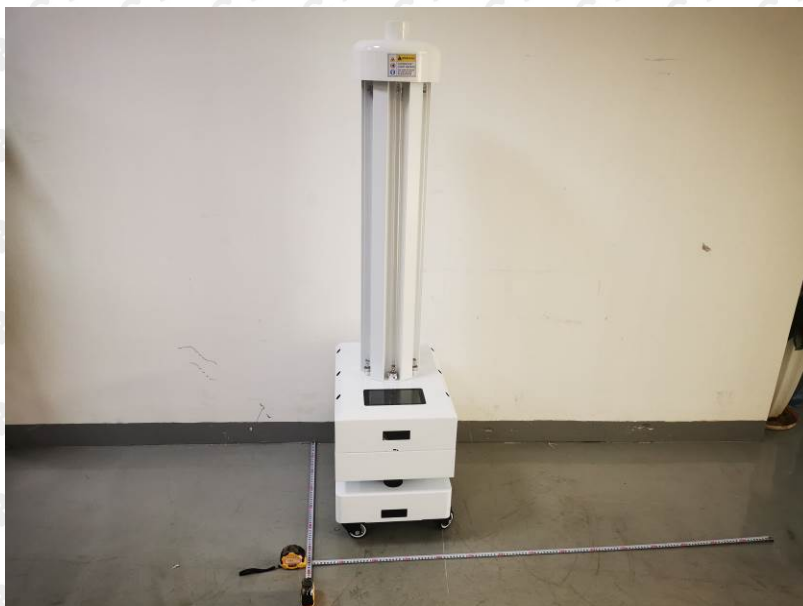
The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 3.0dBi.

13. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emissions

Below 1G



Above 1G



Conducted Emissions



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