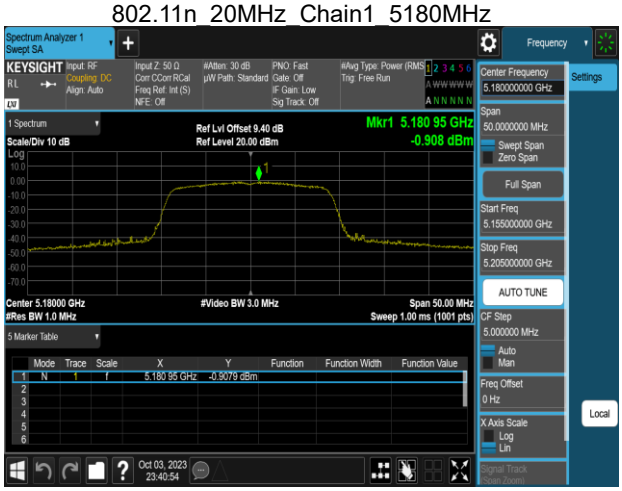
802.11n_20MHz_Chain1_5180MHz



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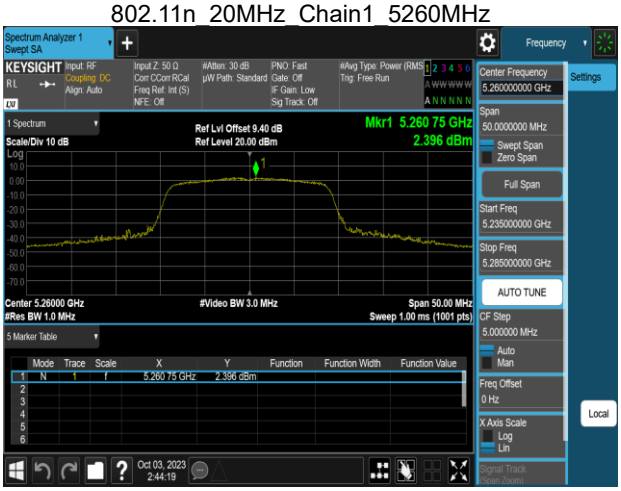
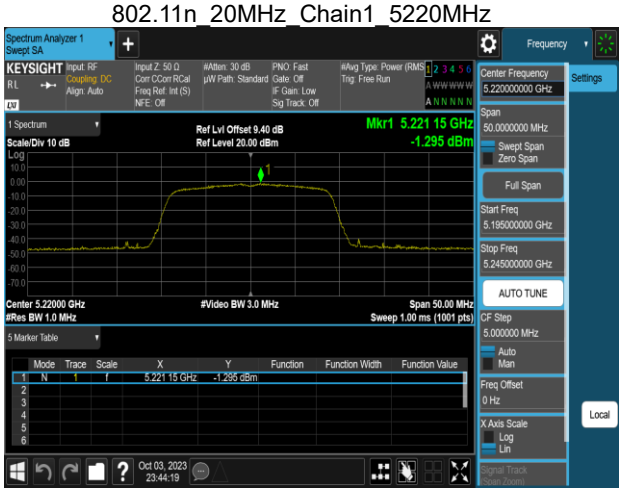


802.11n_20MHz_Chain1_5220MHz



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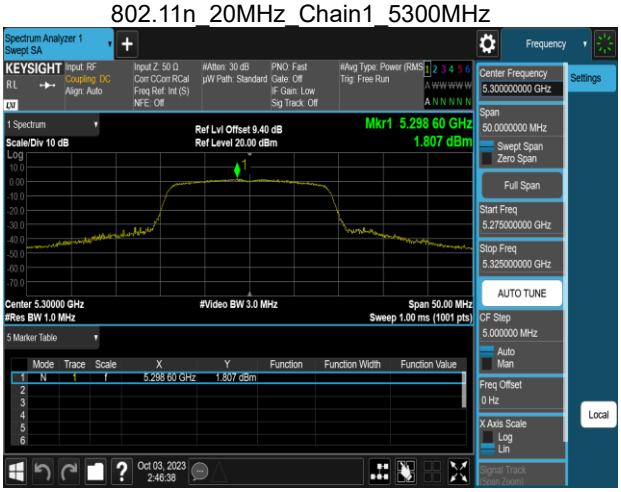

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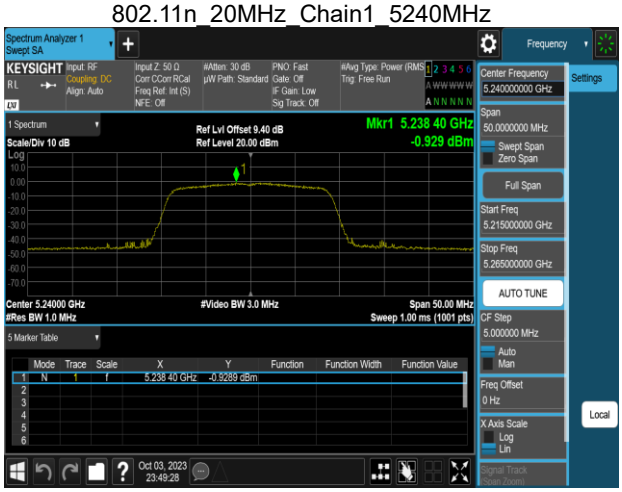
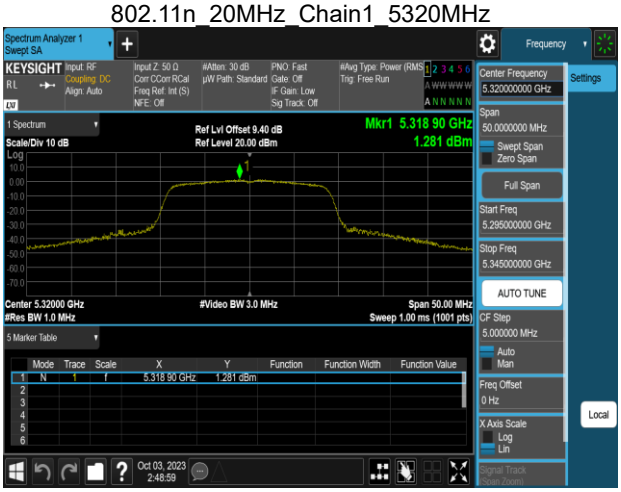
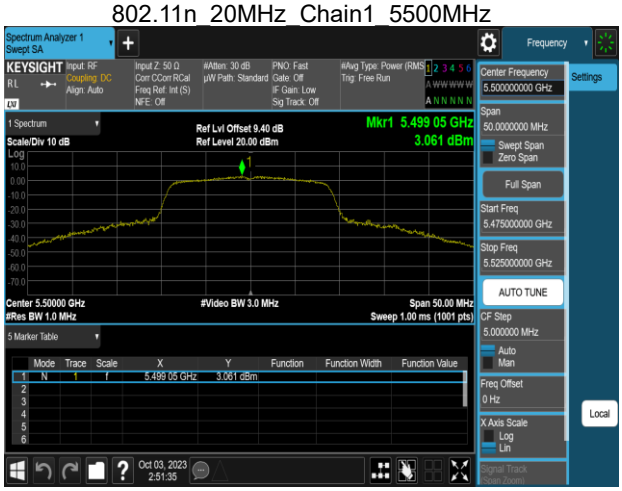


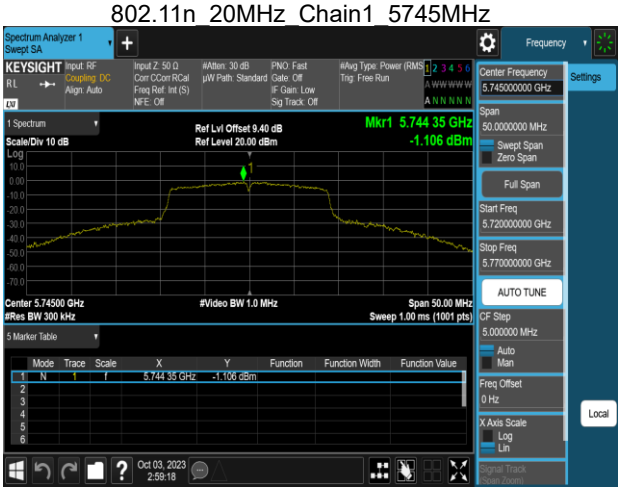
802.11n_20MHz_Chain1_5320MHz



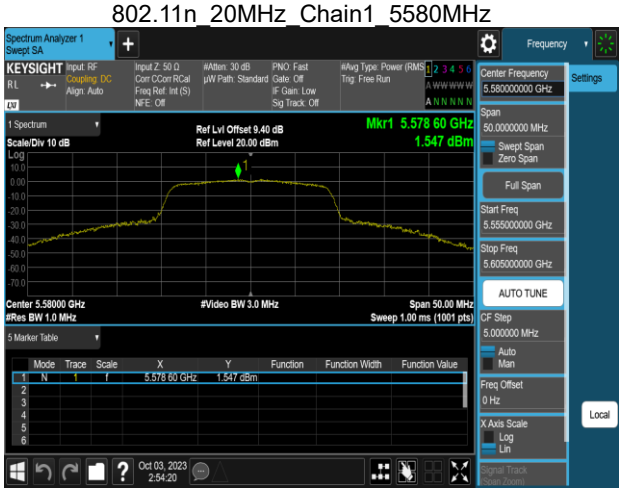
802.11n_20MHz_Chain1_5500MHz



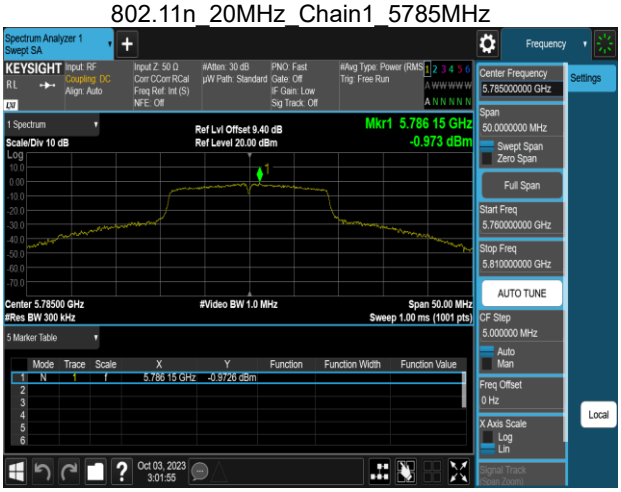
802.11n_20MHz_Chain1_5745MHz



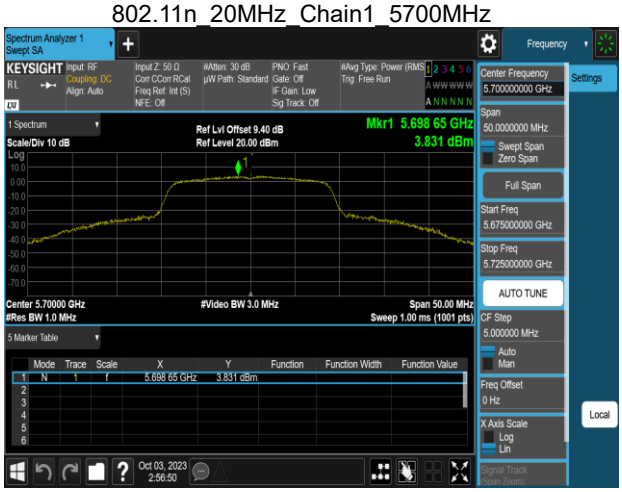
802.11n_20MHz_Chain1_5580MHz



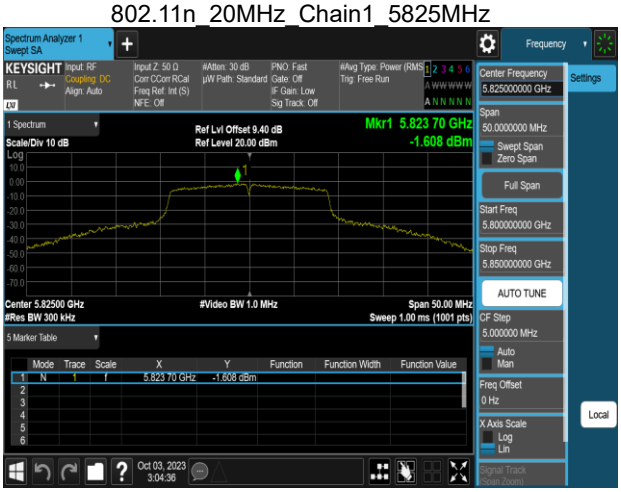
802.11n_20MHz_Chain1_5785MHz



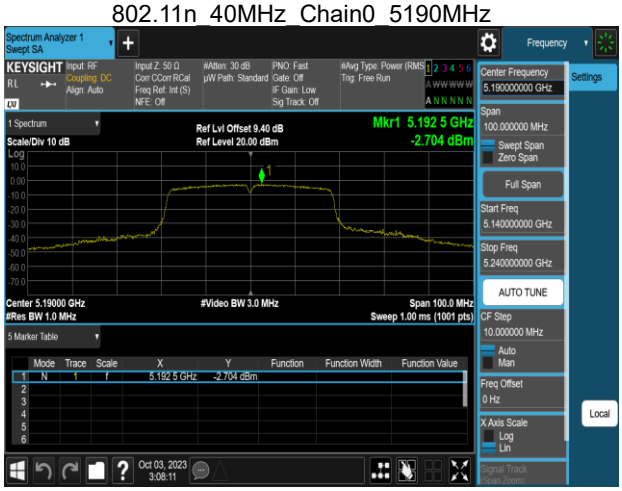
802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5825MHz

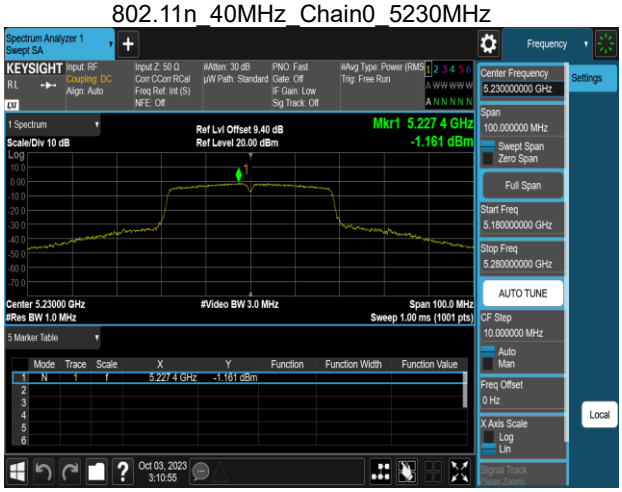


802.11n_40MHz_Chain0_5190MHz

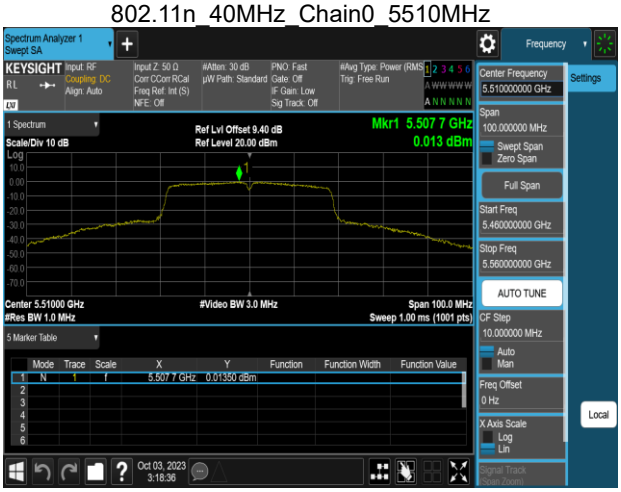


802.11n_40MHz_Chain0_5310MHz

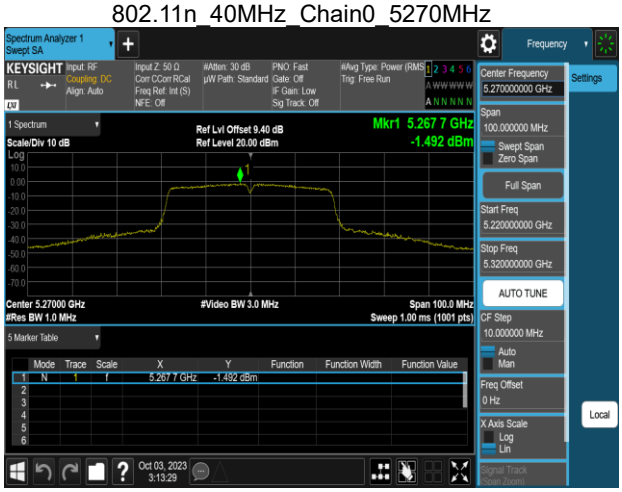
802.11n_40MHz_Chain0_5230MHz



802.11n_40MHz_Chain0_5510MHz



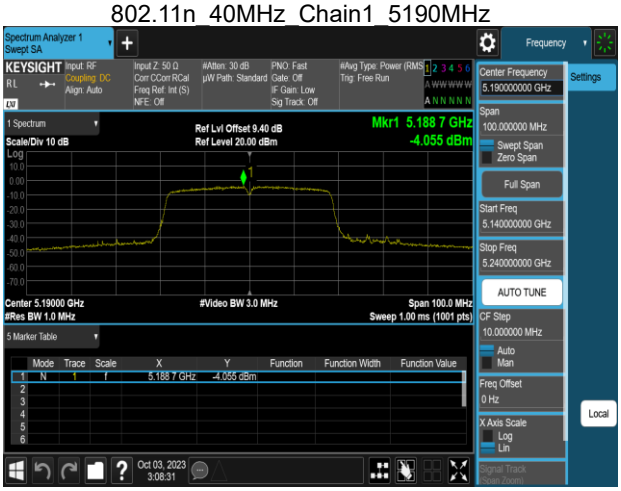
802.11n_40MHz_Chain0_5270MHz



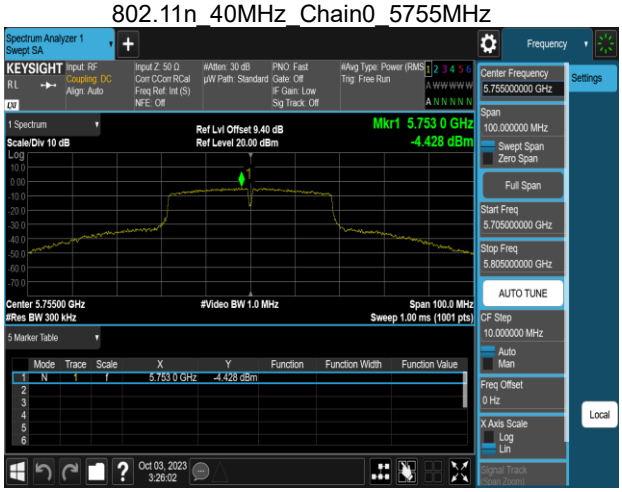
802.11n_40MHz_Chain0_5550MHz

802.11n_40MHz_Chain0_5670MHz

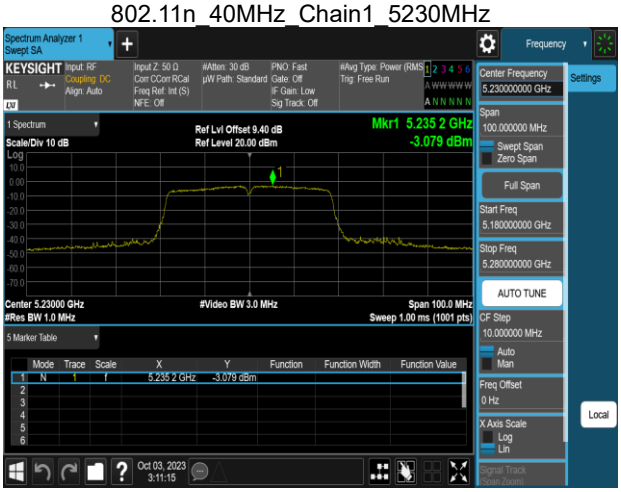
802.11n_40MHz_Chain1_5190MHz



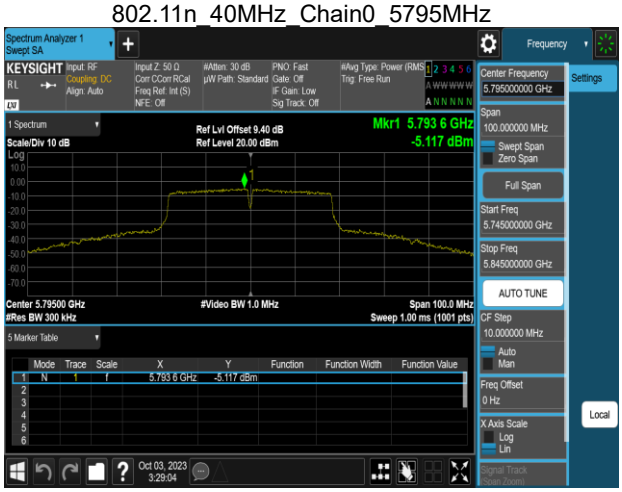
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



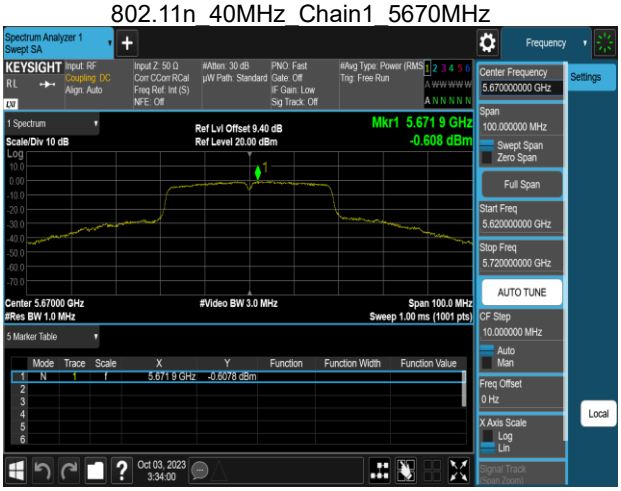
802.11n_40MHz_Chain0_5795MHz



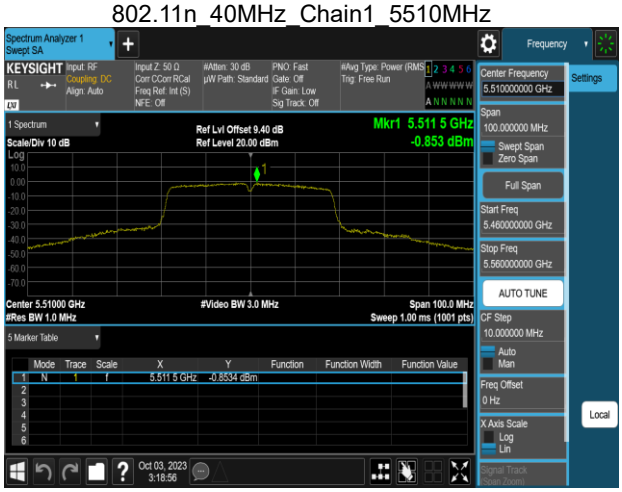
802.11n_40MHz_Chain1_5270MHz

802.11n_40MHz_Chain1_5310MHz

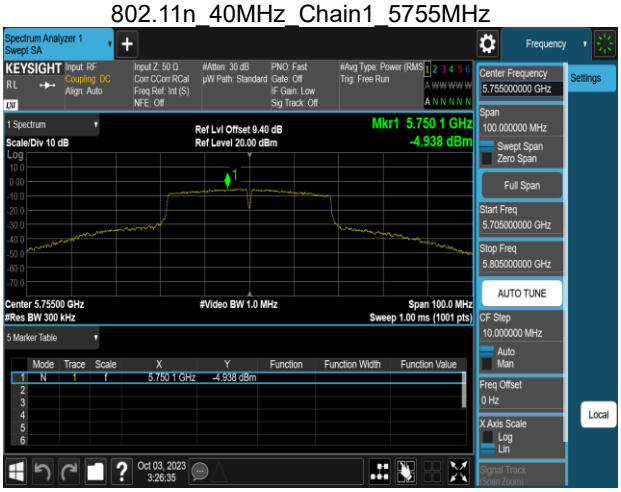
802.11n_40MHz_Chain1_5670MHz



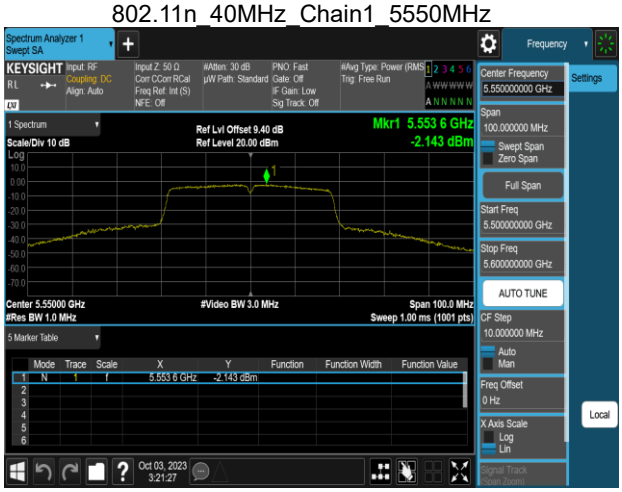
802.11n_40MHz_Chain1_5510MHz



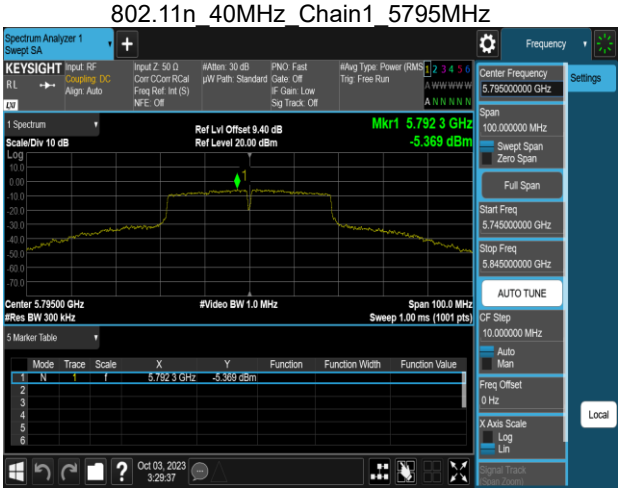
802.11n_40MHz_Chain1_5755MHz



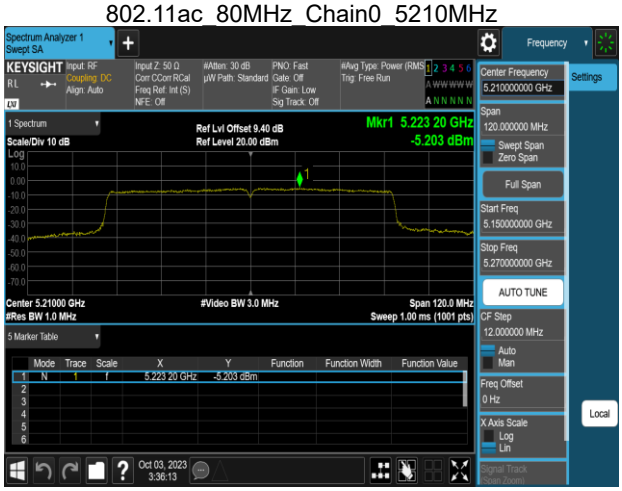
802.11n_40MHz_Chain1_5550MHz



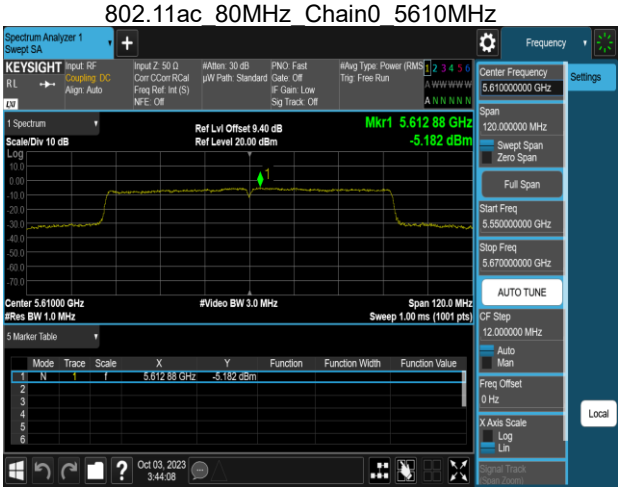
802.11n_40MHz_Chain1_5795MHz



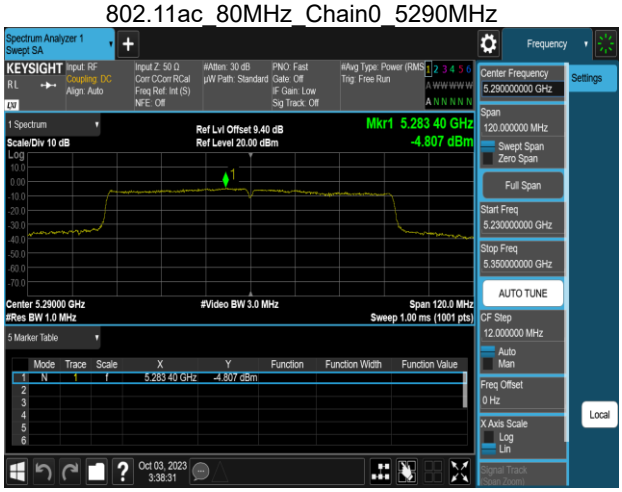
802.11ac_80MHz_Chain0_5210MHz



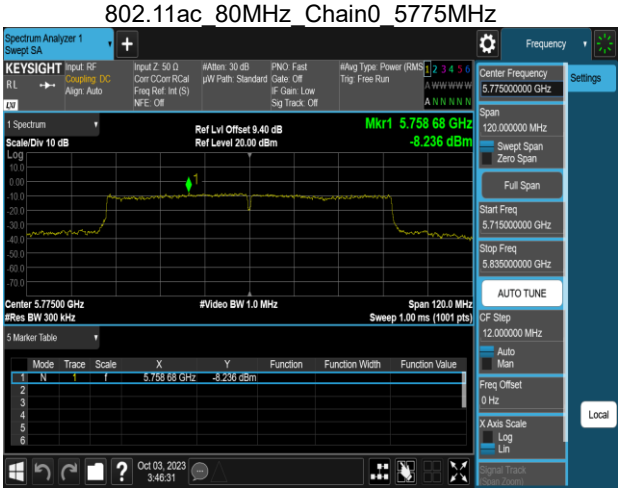
802.11ac_80MHz_Chain0_5610MHz



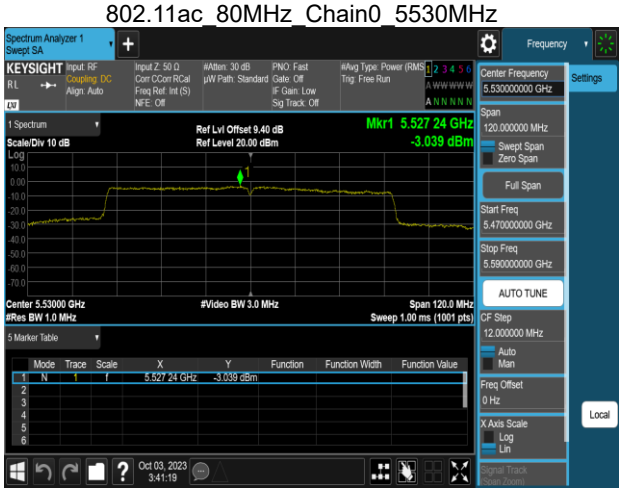
802.11ac_80MHz_Chain0_5290MHz



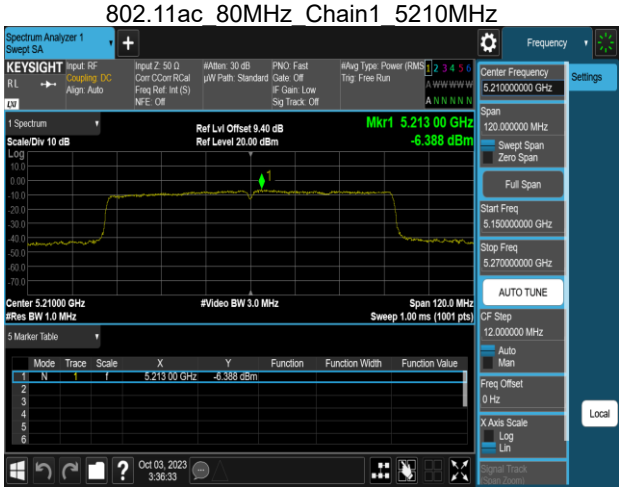
802.11ac_80MHz_Chain0_5775MHz



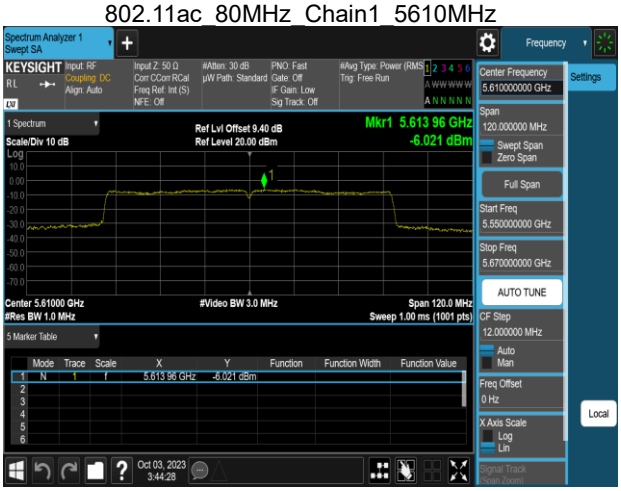
802.11ac_80MHz_Chain0_5530MHz



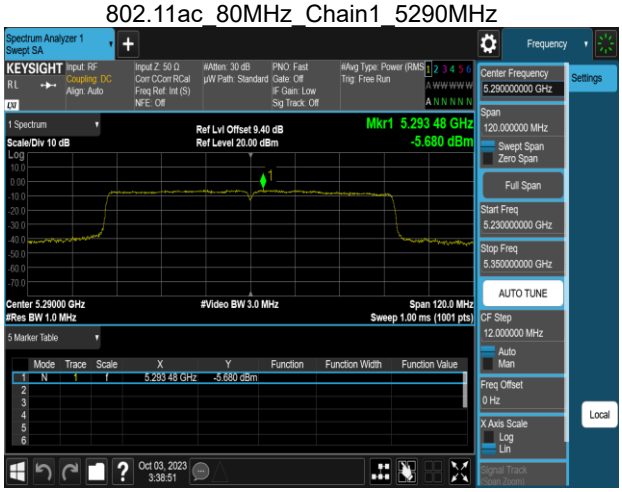
802.11ac_80MHz_Chain1_5210MHz



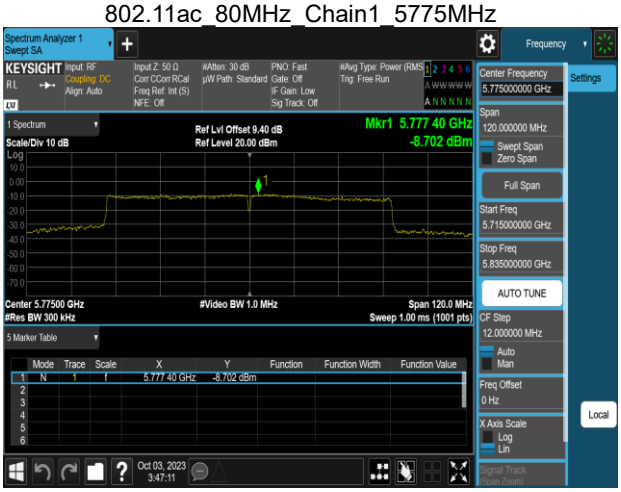
802.11ac_80MHz_Chain1_5610MHz



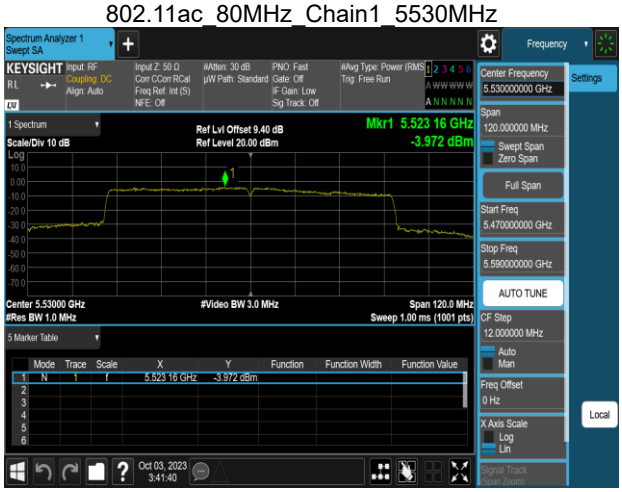
802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5530MHz



4.5 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

FCC according to §15.407, §15.209 and §15.205,

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-3:

All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

According to RSS-247 section 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz (Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (m)
9-490 kHz Note	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-2a and 2c :

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices' unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled "for indoor use only." Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.
For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

4.5.2 Test Procedure

Test method Refer as KDB 789033 D02.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 40GHz set to the low, Mid and High channels with the EUT transmit.

4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

5. The SA setting following：

(1) Below 1G：RBW = 100kHz, VBW ≥ 3*RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G：

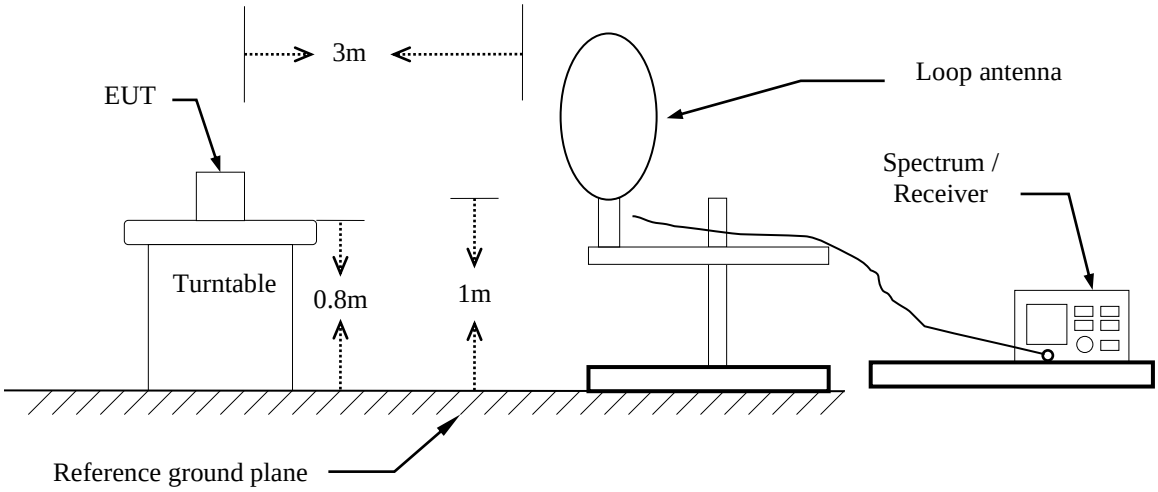
(2.1) For Peak measurement：RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement：RBW = 1MHz, VBW

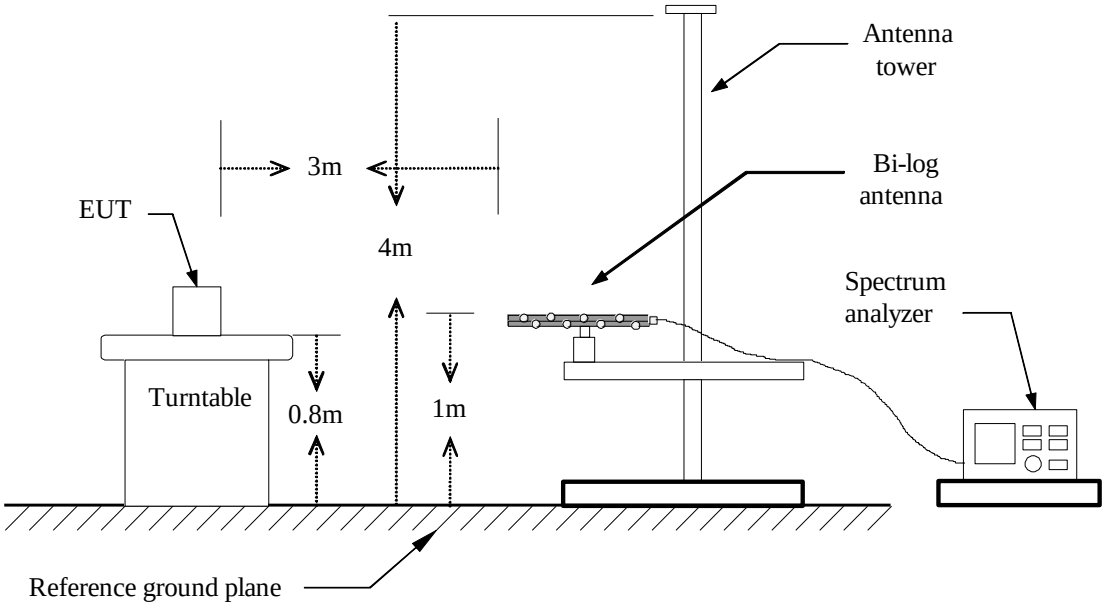
- If Duty Cycle ≥ 98%, VBW=10Hz.
- If Duty Cycle < 98%, VBW=1/T.

4.5.3 Test Setup

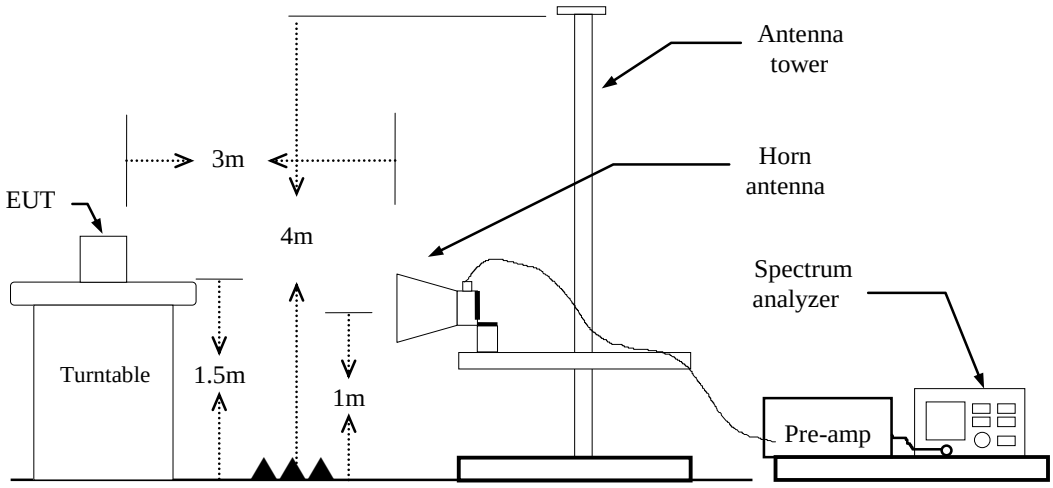
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

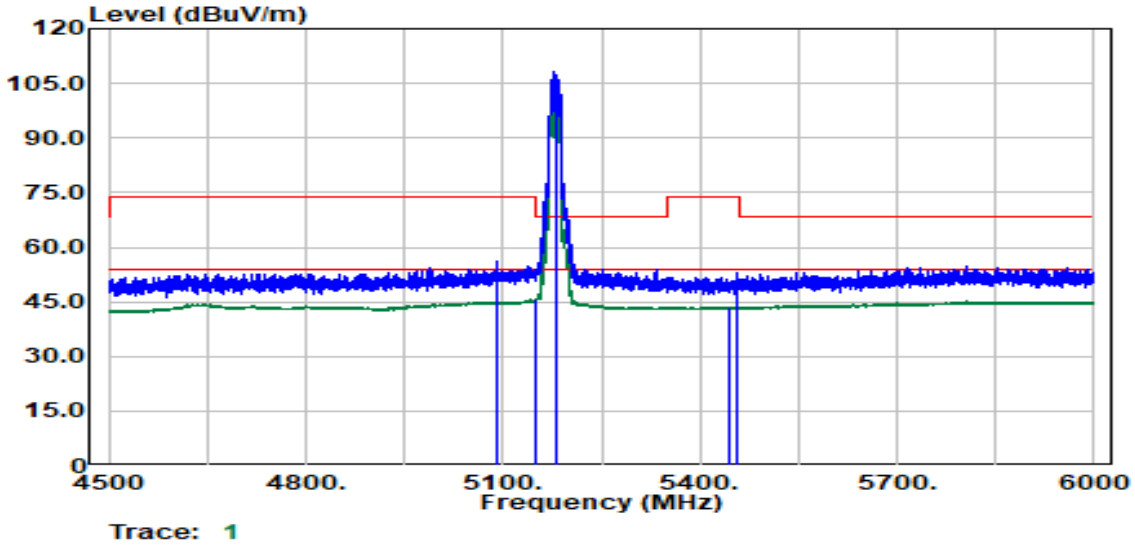


4.5.4 Test Result

Test Data

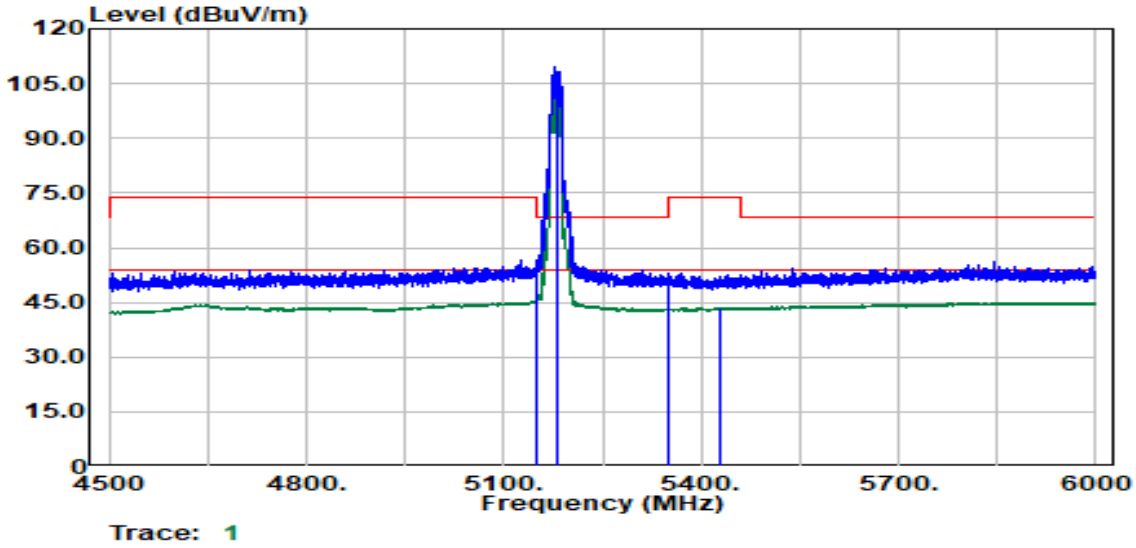
Band Edge

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11a/Band1	Temp./Humi.	:25.5/61
Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:13.5		



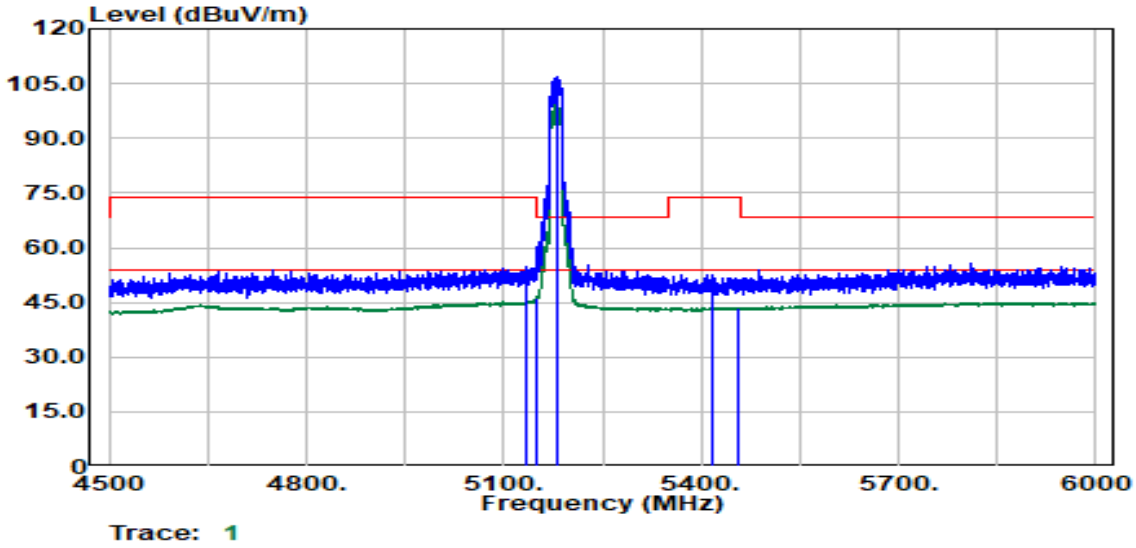
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5090.10	Peak	45.33	10.94	56.26	74.00	-17.74
5148.61	Average	35.01	10.89	45.90	54.00	-8.10
5180.00	Peak	96.59	10.81	107.39	--	--
5180.00	Average	89.56	10.81	100.37	--	--
5445.91	Average	32.78	10.83	43.61	54.00	-10.39
5455.66	Peak	42.08	10.86	52.94	74.00	-21.06

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11a/Band1	Temp./Humi.	:25.5/61
Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:13.5		



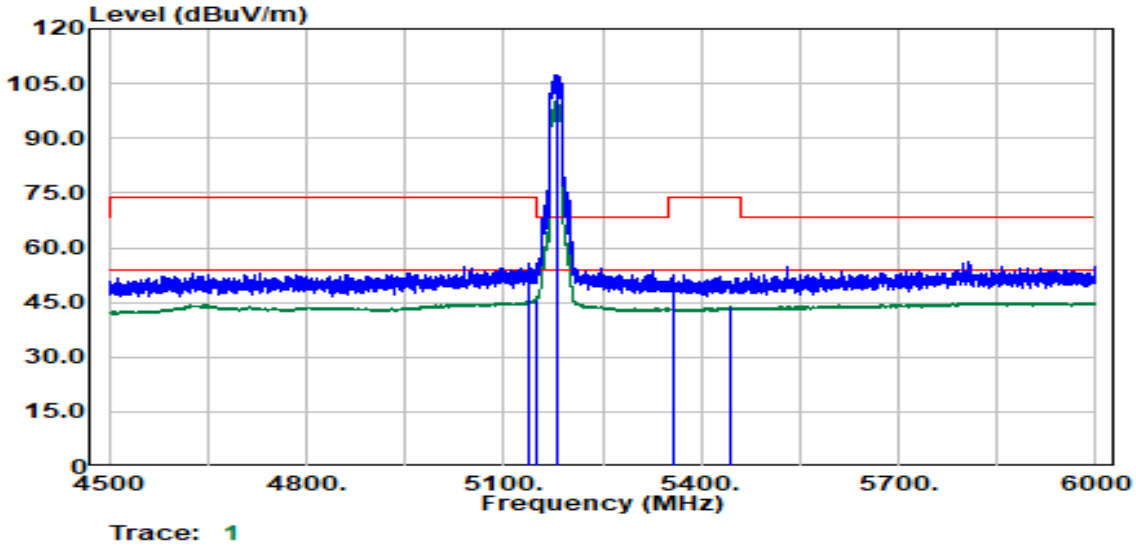
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5148.11	Average	35.05	10.89	45.94	54.00	-8.06
5148.36	Peak	45.88	10.89	56.77	74.00	-17.23
5180.00	Peak	97.69	10.81	108.50	--	--
5180.00	Average	90.98	10.81	101.78	--	--
5351.39	Peak	42.16	10.76	52.91	74.00	-21.09
5428.16	Average	32.79	10.75	43.54	54.00	-10.46

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11n20/Band1	Temp./Humi.	:25.1/61
Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



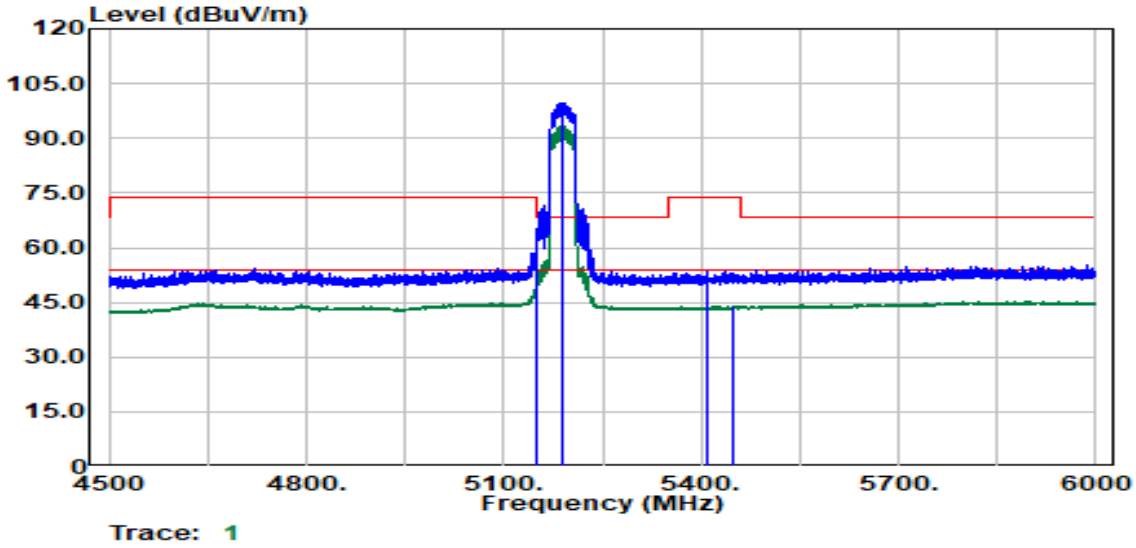
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5135.61	Peak	43.85	10.91	54.76	74.00	-19.24
5148.86	Average	35.24	10.89	46.13	54.00	-7.87
5180.00	Peak	96.23	10.81	107.04	--	--
5180.00	Average	88.68	10.81	99.48	--	--
5417.90	Peak	41.82	10.71	52.53	74.00	-21.47
5457.16	Average	32.64	10.86	43.49	54.00	-10.51

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11n20/Band1	Temp./Humi.	:25.1/61
Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



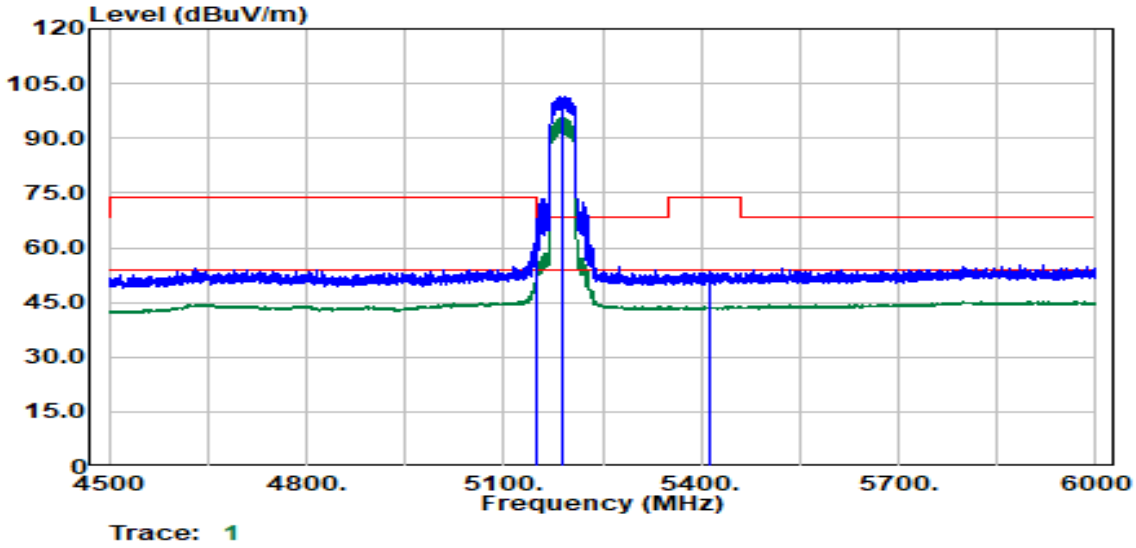
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5139.61	Peak	44.67	10.90	55.58	74.00	-18.42
5149.36	Average	35.03	10.89	45.92	54.00	-8.08
5180.00	Peak	96.72	10.81	107.53	--	--
5180.00	Average	89.19	10.81	99.99	--	--
5356.64	Peak	41.71	10.74	52.45	74.00	-21.55
5444.66	Average	32.93	10.83	43.76	54.00	-10.24

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band1	Temp./Humi.	:25.1/61
Frequency	:5190 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:13.5		



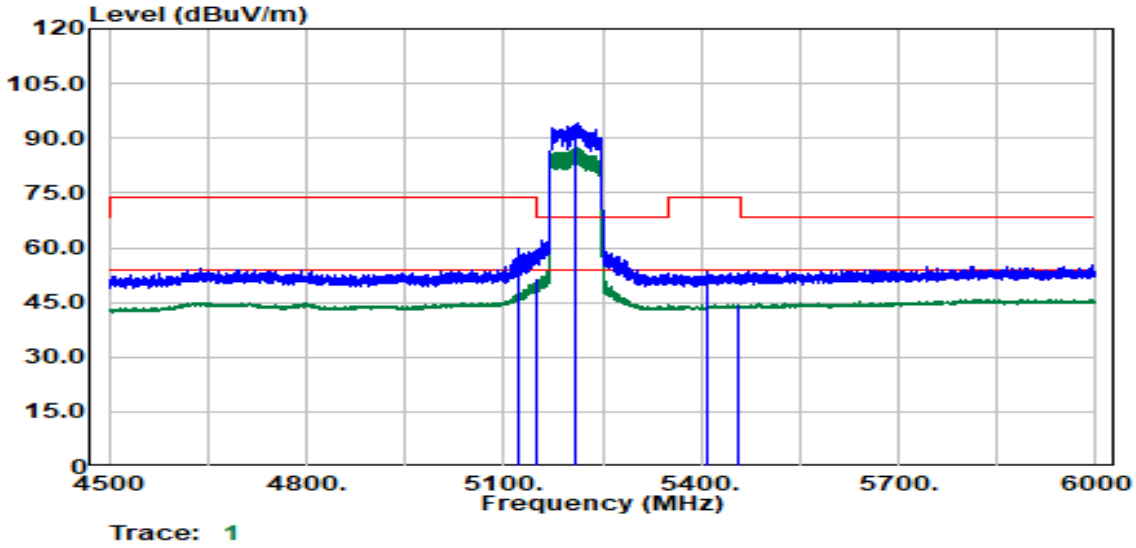
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
5149.61	Peak	54.67	10.89	65.56	74.00	-8.44
5149.61	Average	40.09	10.89	50.98	54.00	-3.02
5190.00	Peak	88.87	10.78	99.65	--	--
5190.00	Average	82.69	10.78	93.47	--	--
5410.90	Peak	42.89	10.68	53.57	74.00	-20.43
5447.66	Average	33.05	10.84	43.89	54.00	-10.11

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band1	Temp./Humi.	:25.1/61
Frequency	:5190 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:13.5		



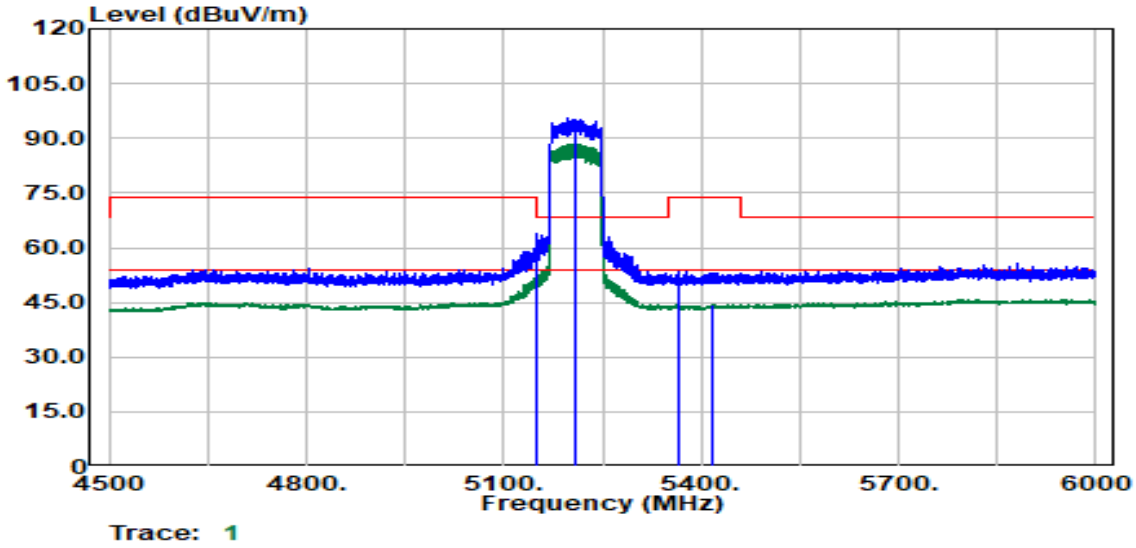
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5149.61	Average	42.54	10.89	53.43	54.00	-0.57
5149.86	Peak	57.66	10.89	68.55	74.00	-5.45
5190.00	Peak	90.82	10.78	101.59	--	--
5190.00	Average	84.90	10.78	95.68	--	--
5411.15	Peak	42.94	10.68	53.62	74.00	-20.38
5413.40	Average	33.43	10.69	44.12	54.00	-9.88

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band1	Temp./Humi.	:25.1/61
Frequency	:5210 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:9.5		



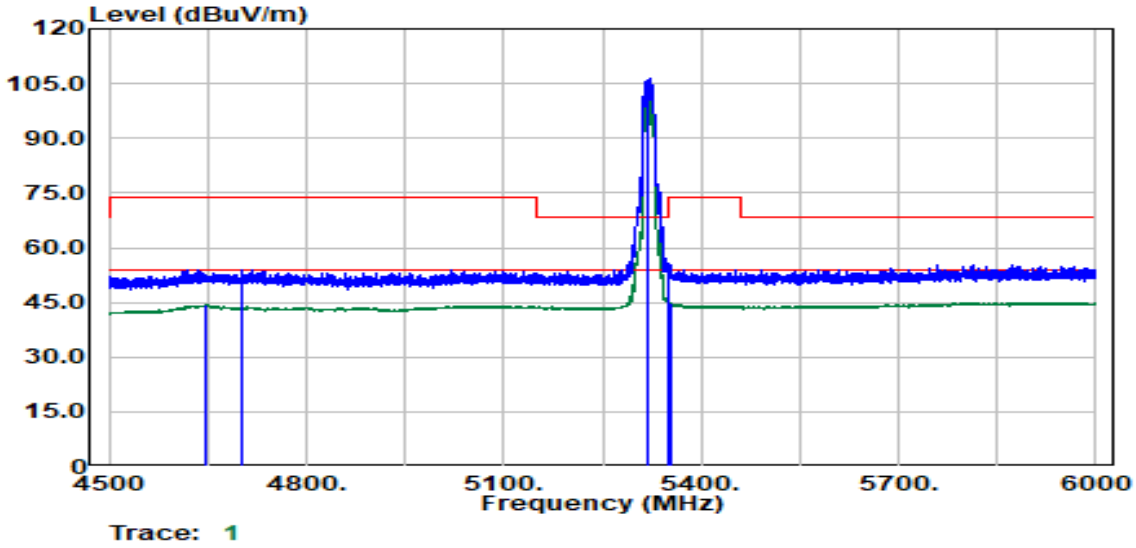
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5123.85	Peak	49.17	10.92	60.09	74.00	-13.91
5148.86	Average	40.62	10.89	51.51	54.00	-2.49
5210.00	Peak	83.29	10.73	94.03	--	--
5210.00	Average	76.54	10.73	87.27	--	--
5410.40	Peak	42.62	10.68	53.30	74.00	-20.70
5456.16	Average	33.57	10.86	44.43	54.00	-9.57

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band1	Temp./Humi.	:25.1/61
Frequency	:5210 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:9.5		



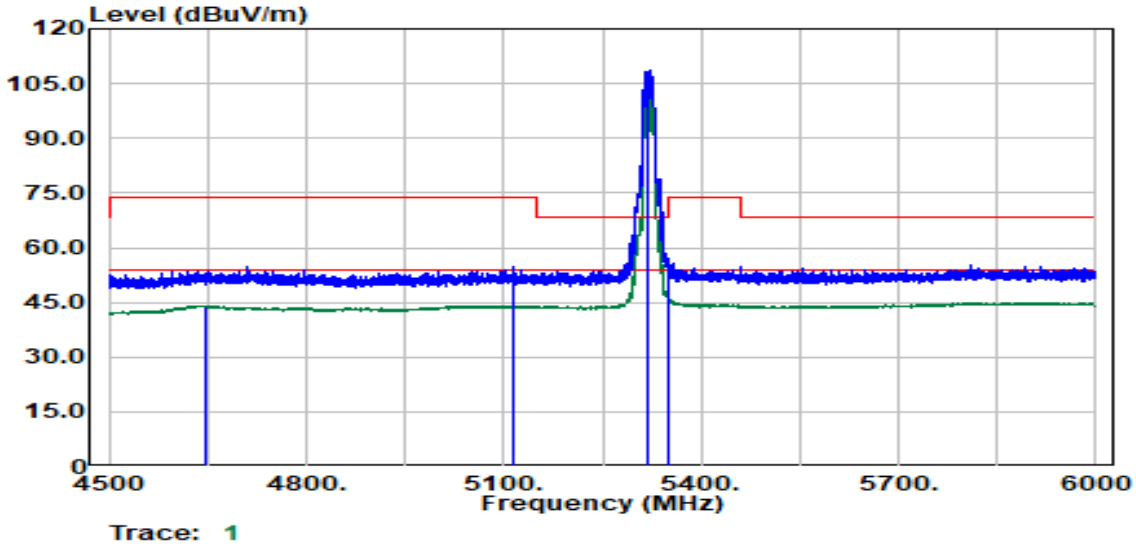
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5149.36	Peak	53.29	10.89	64.18	74.00	-9.82
5149.61	Average	42.43	10.89	53.32	54.00	-0.68
5210.00	Peak	84.61	10.73	95.34	--	--
5210.00	Average	77.77	10.73	88.50	--	--
5364.14	Peak	42.62	10.72	53.34	74.00	-20.66
5416.15	Average	33.72	10.70	44.42	54.00	-9.58

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11a/Band2	Temp./Humi.	:25.1/61
Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



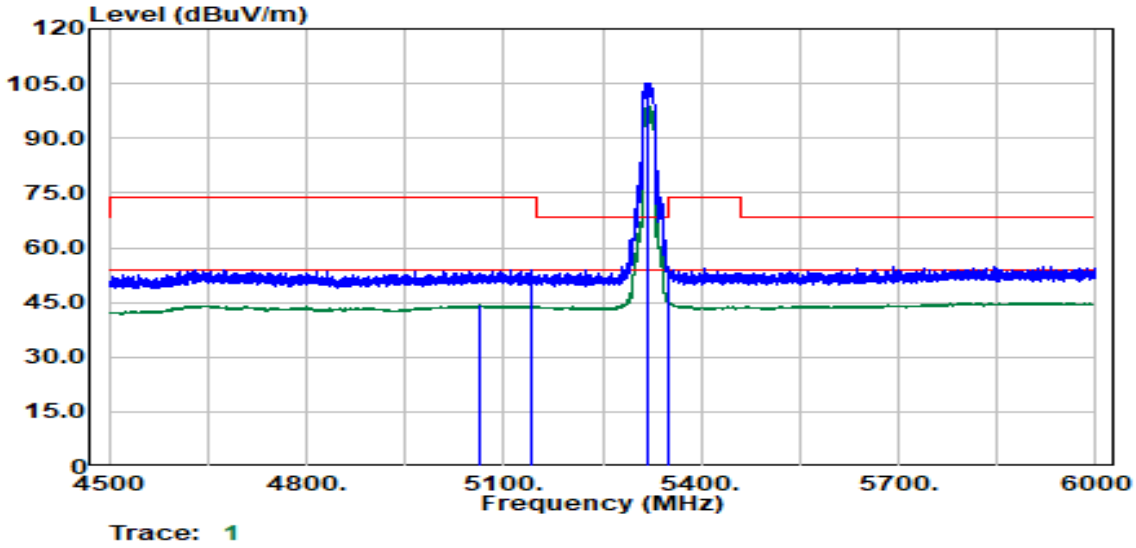
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
4648.03	Average	33.97	10.33	44.30	54.00	-9.70
4701.78	Peak	43.81	10.27	54.09	74.00	-19.91
5320.00	Peak	95.89	10.69	106.58	--	--
5320.00	Average	89.21	10.69	99.90	--	--
5351.14	Peak	45.10	10.76	55.86	74.00	-18.14
5352.89	Average	34.14	10.75	44.89	54.00	-9.11

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11a/Band2	Temp./Humi.	:25.1/61
Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



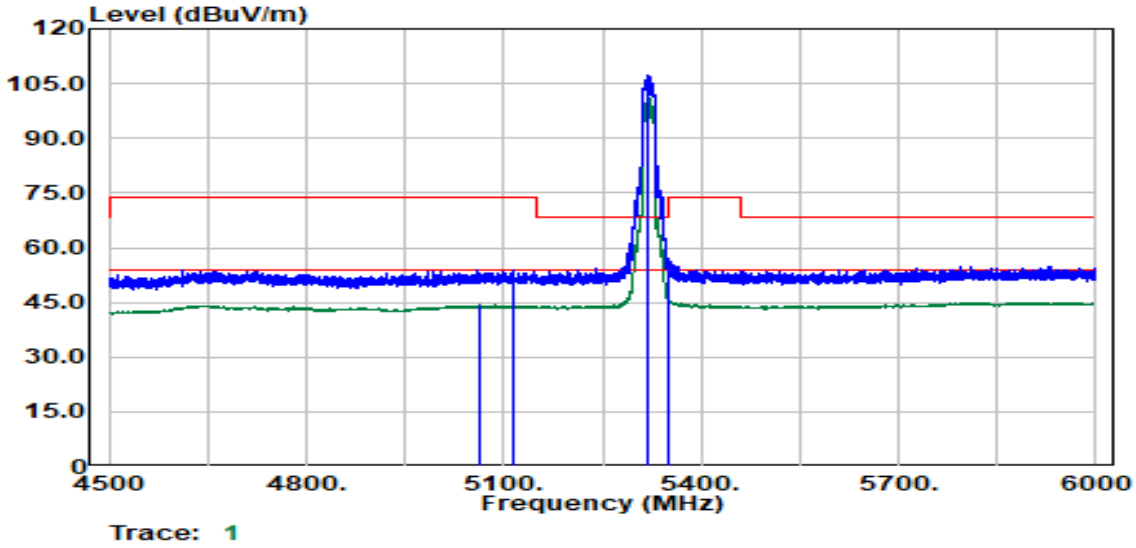
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4646.52	Average	33.81	10.32	44.13	54.00	-9.87
5116.35	Peak	43.95	10.93	54.88	74.00	-19.12
5320.00	Peak	98.06	10.69	108.75	--	--
5320.00	Average	91.54	10.69	102.22	--	--
5351.39	Average	35.15	10.76	45.91	54.00	-8.09
5351.64	Peak	46.35	10.76	57.11	74.00	-16.89

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n20/Band2	Temp./Humi.	:25.1/61
Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:15.5		



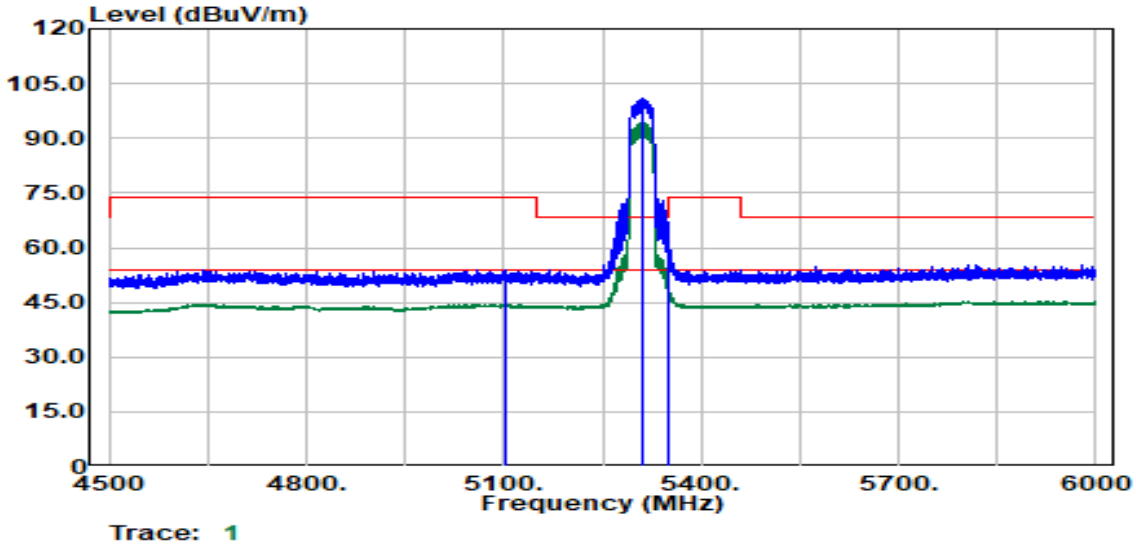
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5064.09	Average	33.29	10.90	44.19	54.00	-9.81
5141.36	Peak	42.95	10.90	53.85	74.00	-20.15
5320.00	Peak	94.55	10.69	105.24	--	--
5320.00	Average	88.44	10.69	99.13	--	--
5350.39	Average	34.61	10.76	45.36	54.00	-8.64
5350.89	Peak	43.82	10.76	54.58	74.00	-19.42

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n20/Band2	Temp./Humi.	:25.1/61
Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:15.5		



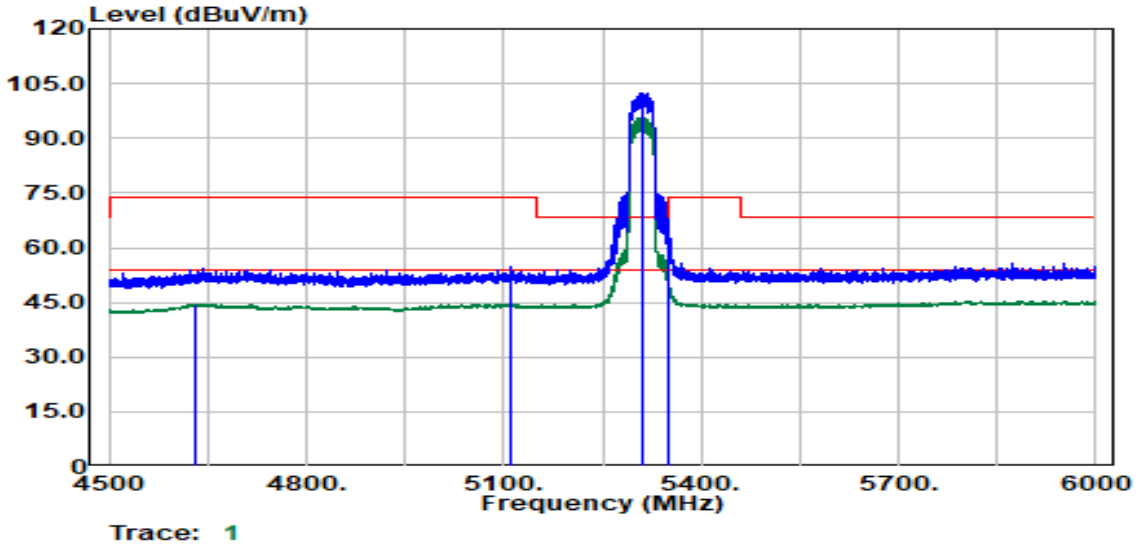
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5062.59	Average	33.27	10.90	44.17	54.00	-9.83
5113.10	Peak	43.00	10.93	53.94	74.00	-20.06
5320.00	Peak	96.50	10.69	107.18	--	--
5320.00	Average	90.41	10.69	101.10	--	--
5350.89	Peak	45.68	10.76	56.44	74.00	-17.56
5351.14	Average	35.42	10.76	46.18	54.00	-7.82

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band2	Temp./Humi.	:25.1/61
Frequency	:5310 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14		



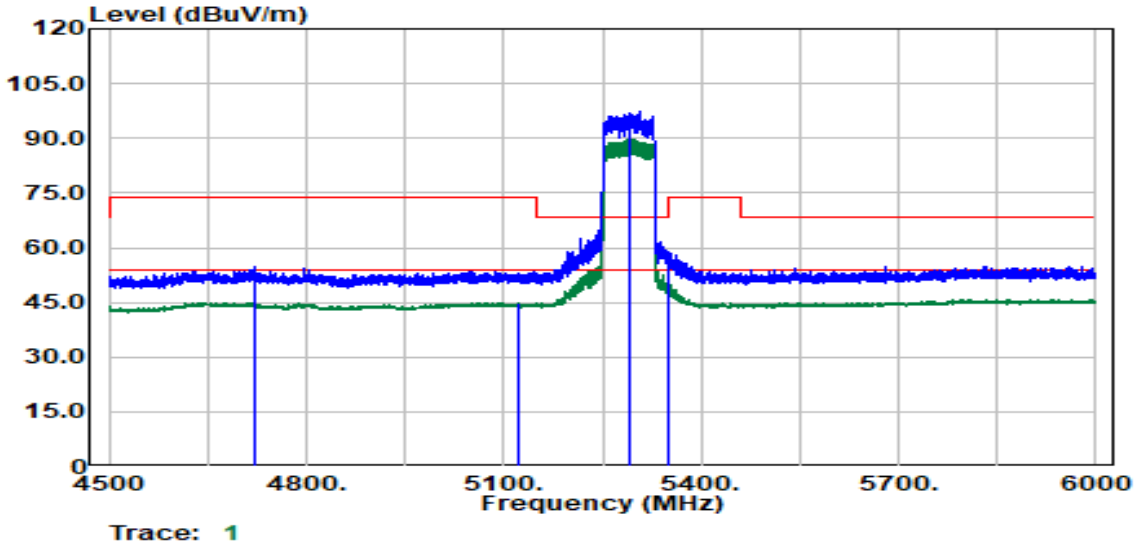
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5100.85	Peak	42.97	10.95	53.92	74.00	-20.08
5101.10	Average	33.51	10.95	44.46	54.00	-9.54
5310.00	Peak	90.18	10.66	100.85	--	--
5310.00	Average	83.93	10.66	94.60	--	--
5350.00	Average	37.86	10.76	48.62	54.00	-5.38
5351.64	Peak	50.22	10.76	60.97	74.00	-13.03

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band2	Temp./Humi.	:25.1/61
Frequency	:5310 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14		



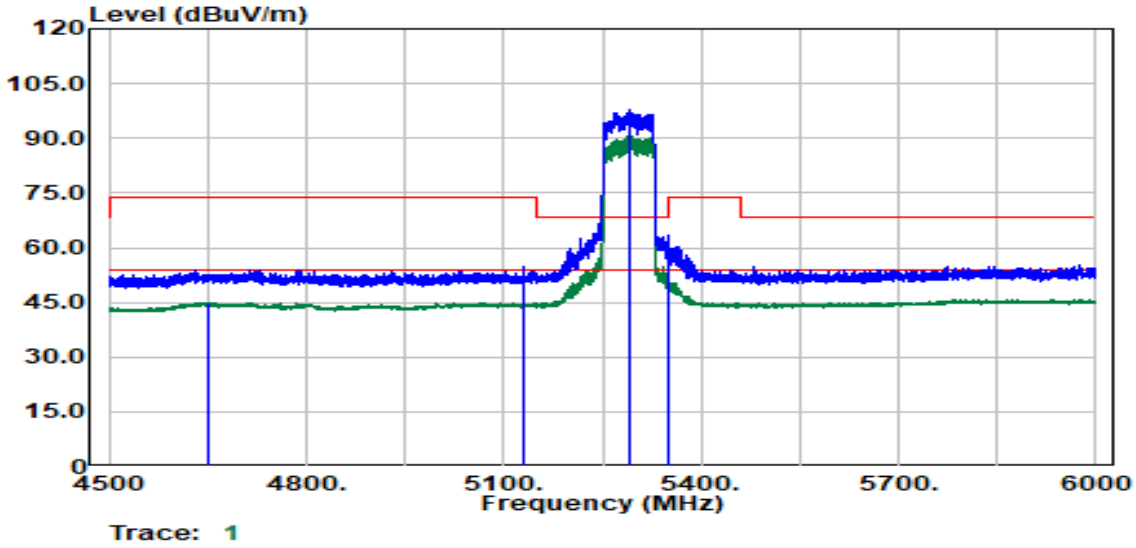
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4629.52	Average	34.20	10.29	44.49	54.00	-9.51
5110.85	Peak	43.66	10.94	54.60	74.00	-19.40
5310.00	Peak	91.65	10.66	102.31	--	--
5310.00	Average	85.19	10.66	95.85	--	--
5350.00	Peak	55.95	10.76	66.71	68.20	-1.49
5350.00	Average	42.10	10.76	52.86	54.00	-1.14

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band2	Temp./Humi.	:25.1/61
Frequency	:5290 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:13		



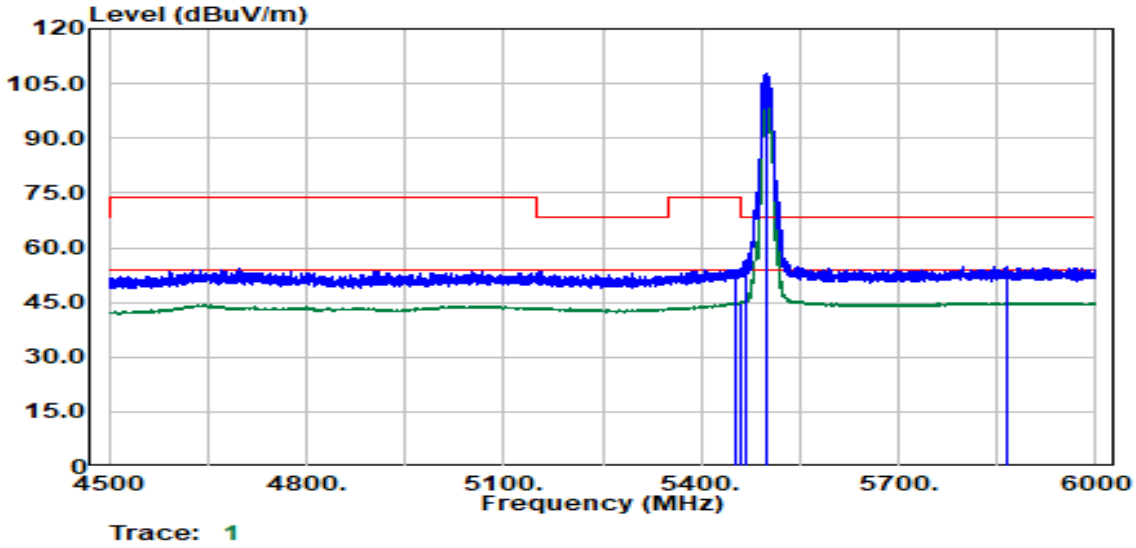
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4723.29	Peak	44.46	10.33	54.79	74.00	-19.21
5120.35	Average	33.97	10.93	44.89	54.00	-9.11
5290.00	Peak	86.70	10.64	97.35	--	--
5290.00	Average	79.14	10.64	89.79	--	--
5350.64	Peak	47.97	10.76	58.73	74.00	-15.27
5350.64	Average	39.15	10.76	49.91	54.00	-4.09

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band2	Temp./Humi.	:25.1/61
Frequency	:5290 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:13		



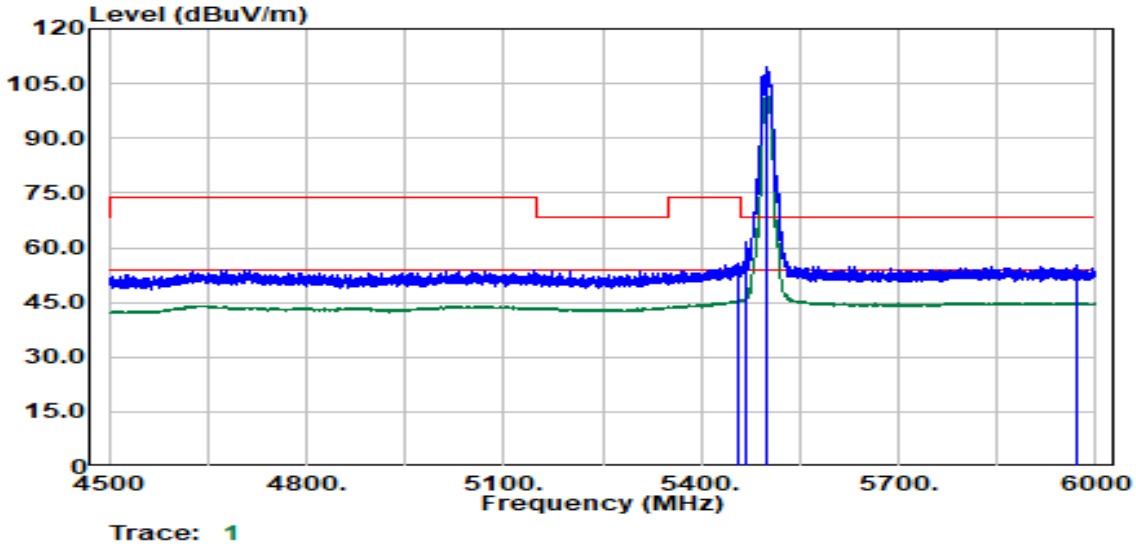
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4649.78	Average	34.61	10.33	44.94	54.00	-9.06
5130.11	Peak	43.95	10.91	54.87	74.00	-19.13
5290.00	Peak	87.40	10.64	98.04	--	--
5290.00	Average	80.04	10.64	90.68	--	--
5350.89	Average	42.66	10.76	53.41	54.00	-0.59
5351.14	Peak	52.93	10.76	63.68	74.00	-10.32

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11a/Band3	Temp./Humi.	:25.1/61
Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14		



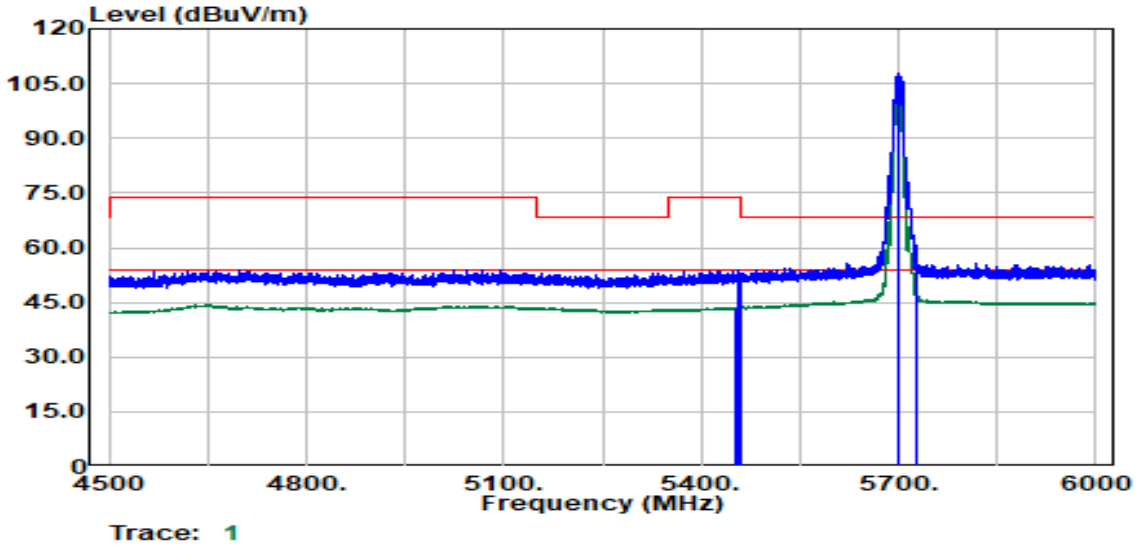
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5451.91	Peak	43.25	10.85	54.11	74.00	-19.89
5458.66	Average	34.18	10.86	45.04	54.00	-8.96
5467.66	Peak	45.76	10.87	56.63	68.20	-11.57
5500.00	Peak	96.67	10.90	107.57	--	--
5500.00	Average	89.80	10.90	100.70	--	--
5864.48	Peak	42.47	12.44	54.91	68.20	-13.29

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11a/Band3	Temp./Humi.	:25.1/61
Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14		



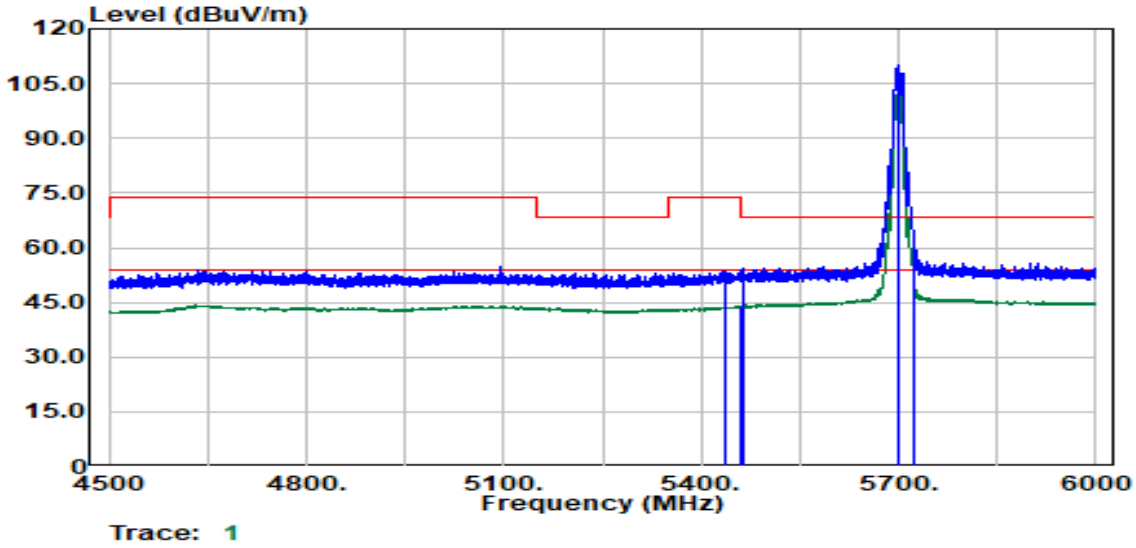
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5456.41	Peak	44.72	10.86	55.58	74.00	-18.42
5458.16	Average	34.96	10.86	45.82	54.00	-8.18
5468.41	Peak	51.18	10.87	62.05	68.20	-6.15
5500.00	Peak	98.49	10.90	109.39	--	--
5500.00	Average	91.82	10.90	102.72	--	--
5973.00	Peak	42.98	12.37	55.34	68.20	-12.86

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11a/Band3	Temp./Humi.	:25.1/61
Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



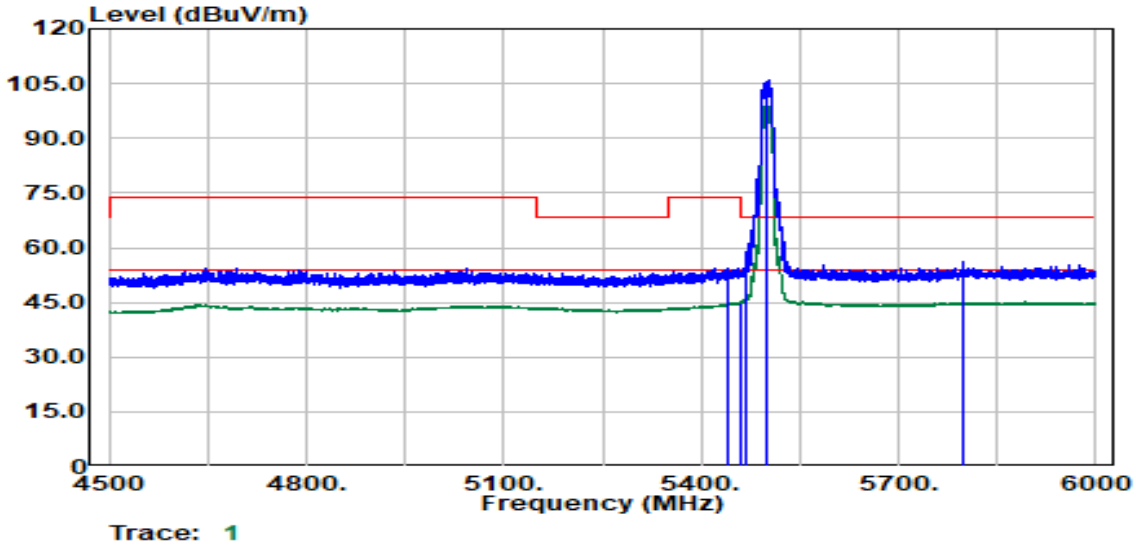
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5451.91	Average	32.80	10.85	43.65	54.00	-10.35
5457.91	Peak	43.12	10.86	53.98	74.00	-20.02
5461.41	Peak	42.08	10.86	52.94	68.20	-15.26
5700.00	Peak	95.73	12.16	107.89	--	--
5700.00	Average	89.11	12.16	101.27	--	--
5725.70	Peak	48.19	12.30	60.49	68.20	-7.71

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11a/Band3	Temp./Humi.	:25.1/61
Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



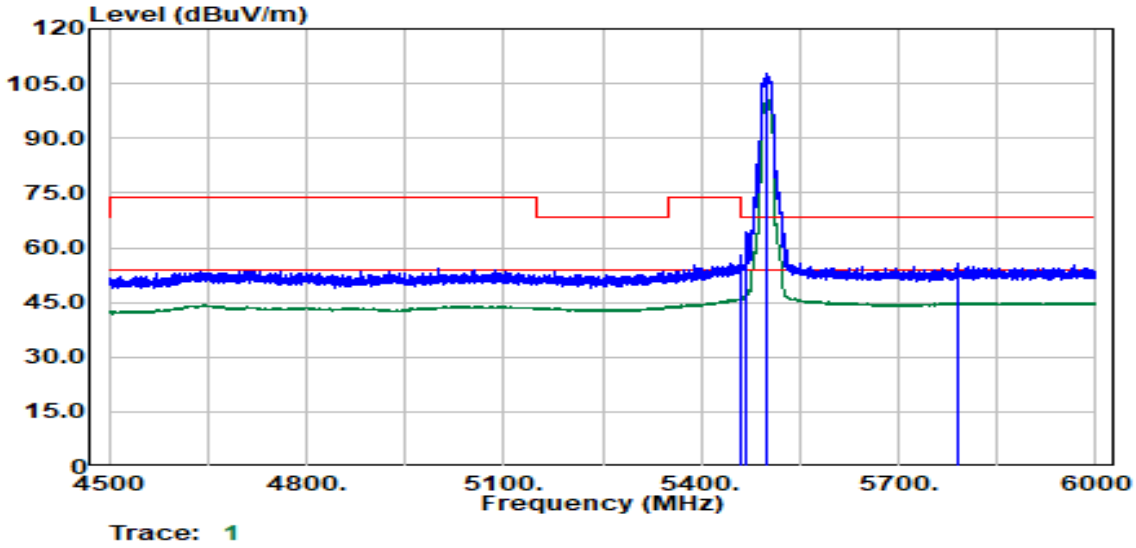
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5437.16	Peak	42.60	10.79	53.39	74.00	-20.61
5458.41	Average	33.14	10.86	44.00	54.00	-10.00
5463.91	Peak	43.40	10.86	54.26	68.20	-13.94
5700.00	Peak	97.65	12.16	109.81	--	--
5700.00	Average	91.20	12.16	103.36	--	--
5725.45	Peak	52.85	12.30	65.15	68.20	-3.05

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n20/Band3	Temp./Humi.	:25.1/61
Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



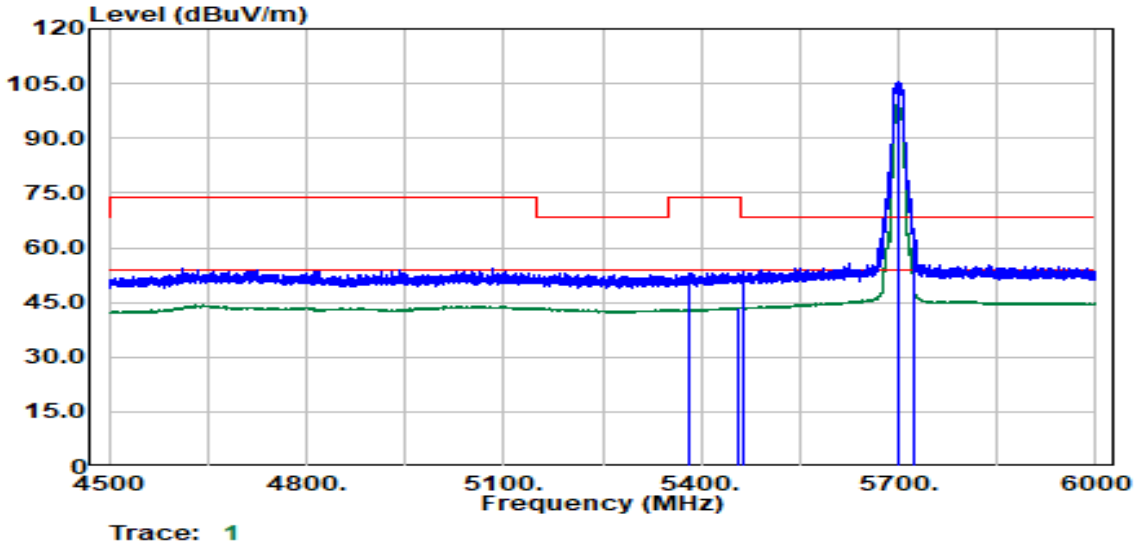
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5441.16	Peak	43.50	10.81	54.31	74.00	-19.69
5459.91	Average	34.02	10.86	44.88	54.00	-9.12
5467.91	Peak	47.88	10.87	58.75	68.20	-9.45
5500.00	Peak	94.94	10.90	105.84	--	--
5500.00	Average	88.20	10.90	99.10	--	--
5799.47	Peak	43.52	12.67	56.19	68.20	-12.01

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n20/Band3	Temp./Humi.	:25.1/61
Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



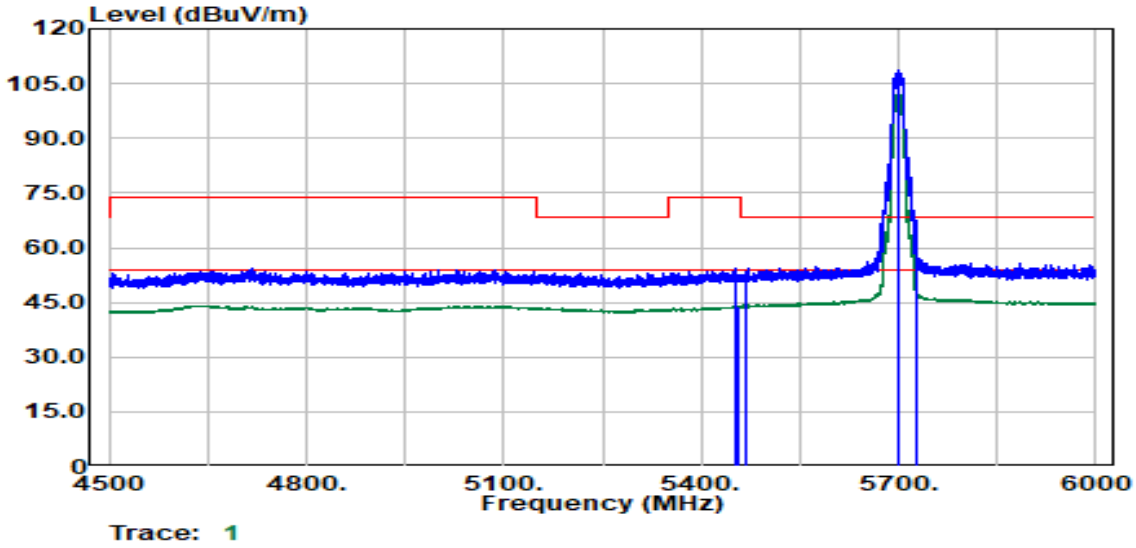
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5458.91	Peak	46.93	10.86	57.79	74.00	-16.21
5458.91	Average	35.57	10.86	46.43	54.00	-7.57
5467.91	Peak	53.80	10.87	64.67	68.20	-3.53
5500.00	Peak	96.74	10.90	107.64	--	--
5500.00	Average	90.18	10.90	101.08	--	--
5788.97	Peak	43.03	12.62	55.65	68.20	-12.55

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n20/Band3	Temp./Humi.	:25.1/61
Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:15		



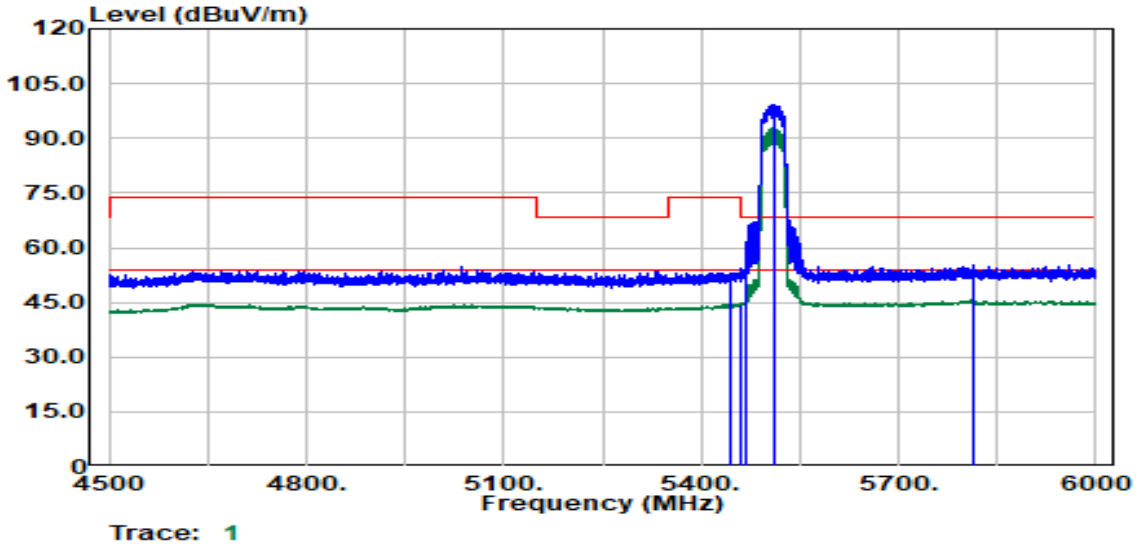
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5380.90	Peak	42.43	10.68	53.11	74.00	-20.89
5456.66	Average	32.77	10.86	43.63	54.00	-10.37
5464.66	Peak	42.36	10.86	53.22	68.20	-14.98
5700.00	Peak	93.31	12.16	105.47	--	--
5700.00	Average	86.97	12.16	99.13	--	--
5725.45	Peak	50.09	12.30	62.39	68.20	-5.81

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n20/Band3	Temp./Humi.	:25.1/61
Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:15		



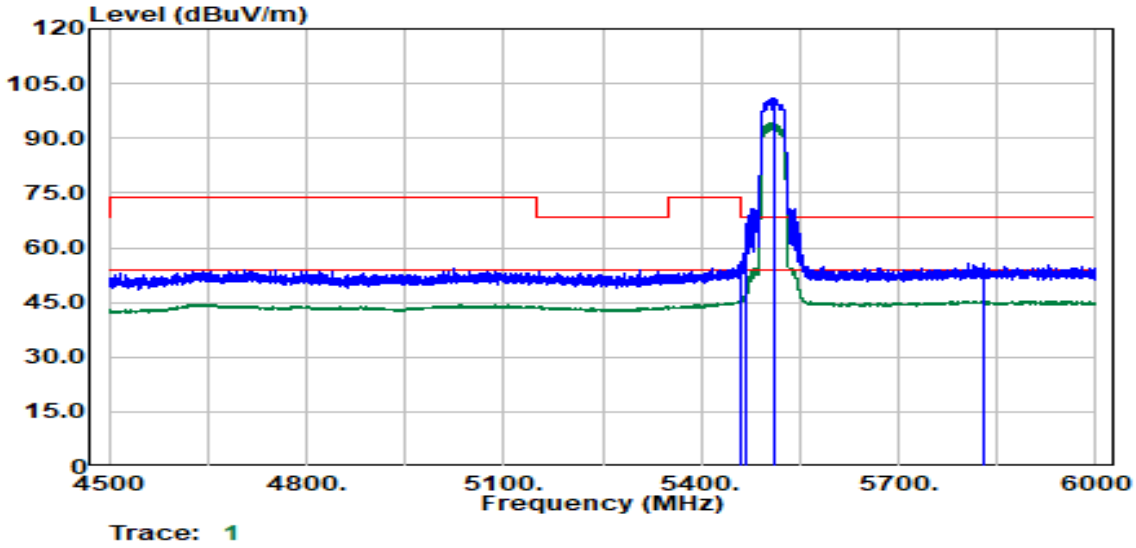
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5452.16	Peak	43.60	10.85	54.46	74.00	-19.54
5456.91	Average	33.22	10.86	44.08	54.00	-9.92
5466.16	Peak	42.52	10.87	53.38	68.20	-14.82
5700.00	Peak	96.52	12.16	108.68	--	--
5700.00	Average	90.43	12.16	102.59	--	--
5726.96	Peak	55.42	12.31	67.73	68.20	-0.47

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band3	Temp./Humi.	:25.1/61
Frequency	:5510 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:12		



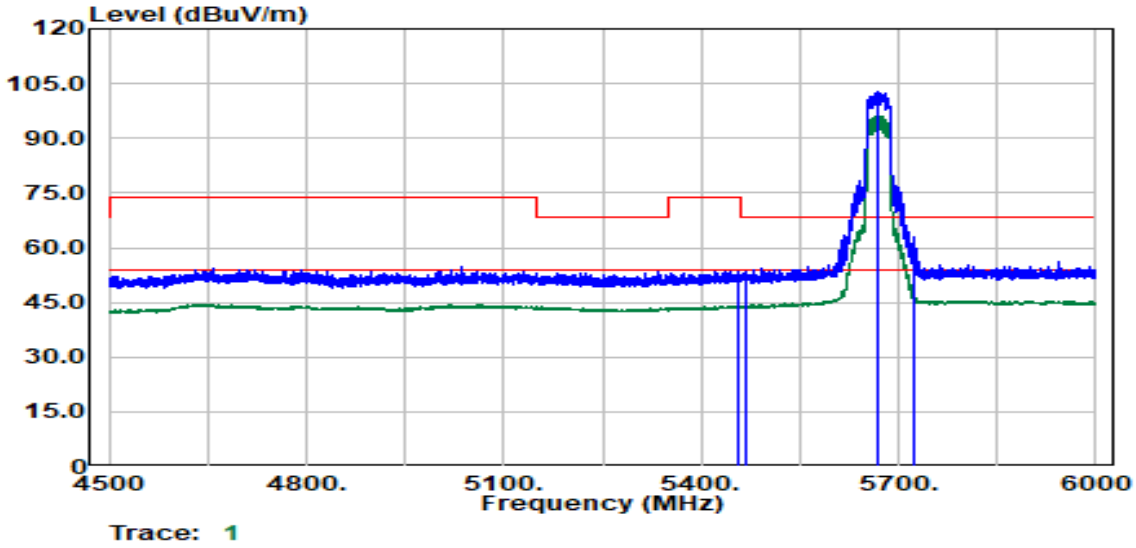
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5442.91	Peak	42.39	10.82	53.21	74.00	-20.79
5459.41	Average	33.57	10.86	44.43	54.00	-9.57
5469.16	Peak	51.18	10.87	62.05	68.20	-6.15
5510.00	Peak	88.14	10.96	99.10	--	--
5510.00	Average	81.89	10.96	92.85	--	--
5812.97	Peak	42.63	12.62	55.24	68.20	-12.96

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band3	Temp./Humi.	:25.1/61
Frequency	:5510 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:12		



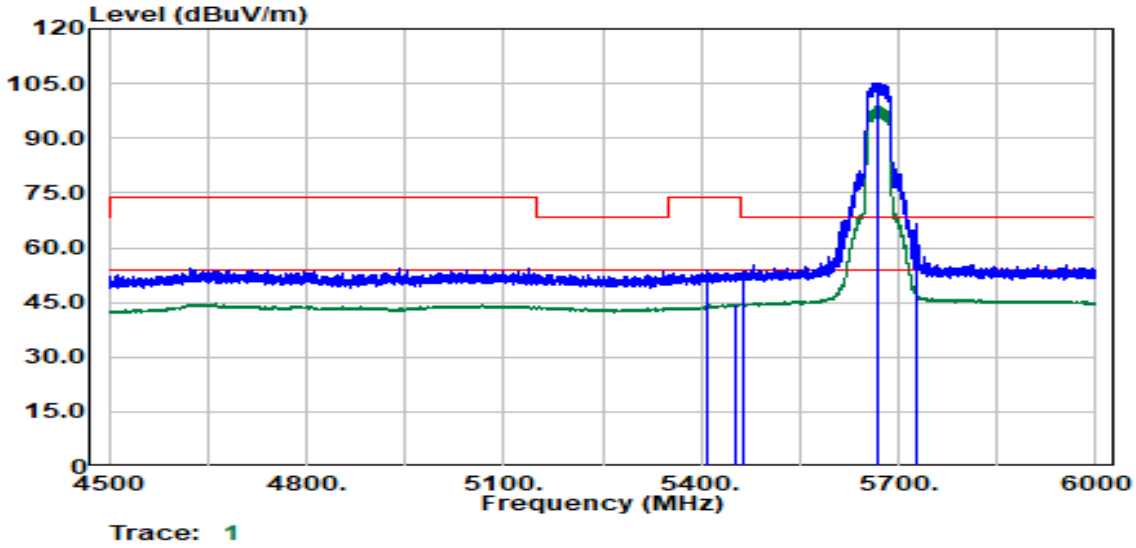
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5459.16	Peak	44.78	10.86	55.64	74.00	-18.36
5459.91	Average	34.73	10.86	45.59	54.00	-8.41
5469.41	Peak	56.01	10.87	66.88	68.20	-1.32
5510.00	Peak	89.94	10.96	100.90	--	--
5510.00	Average	83.24	10.96	94.20	--	--
5828.97	Peak	42.98	12.55	55.53	68.20	-12.67

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band3	Temp./Humi.	:25.1/61
Frequency	:5670 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14		



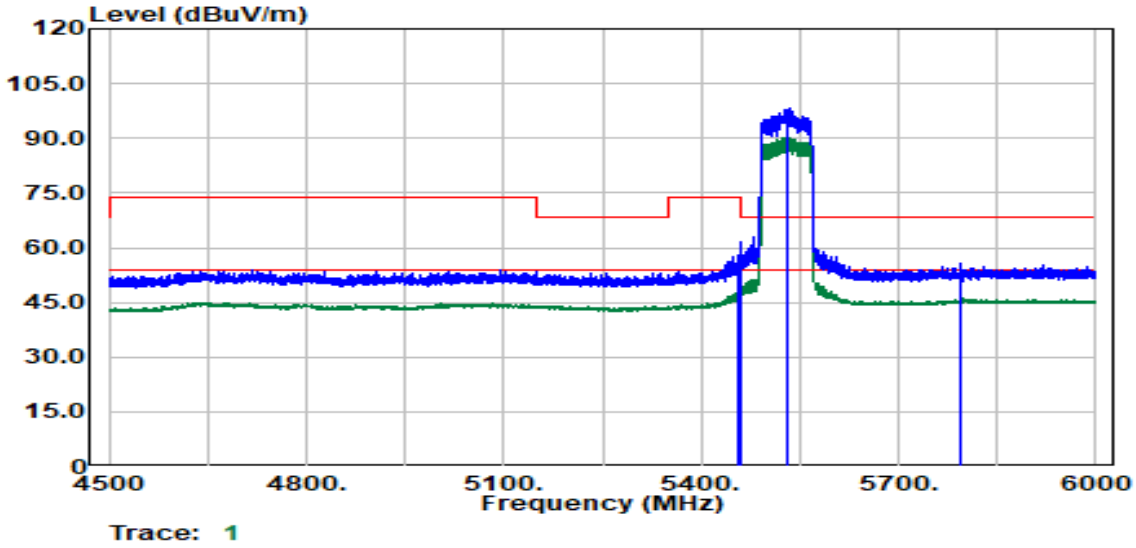
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5458.16	Peak	42.74	10.86	53.60	74.00	-20.40
5458.16	Average	33.21	10.86	44.07	54.00	-9.93
5466.41	Peak	42.69	10.87	53.55	68.20	-14.65
5670.00	Peak	90.98	11.89	102.87	--	--
5670.00	Average	84.54	11.89	96.43	--	--
5725.45	Peak	51.19	12.30	63.49	68.20	-4.71

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11n40/Band3	Temp./Humi.	:25.1/61
Frequency	:5670 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14		



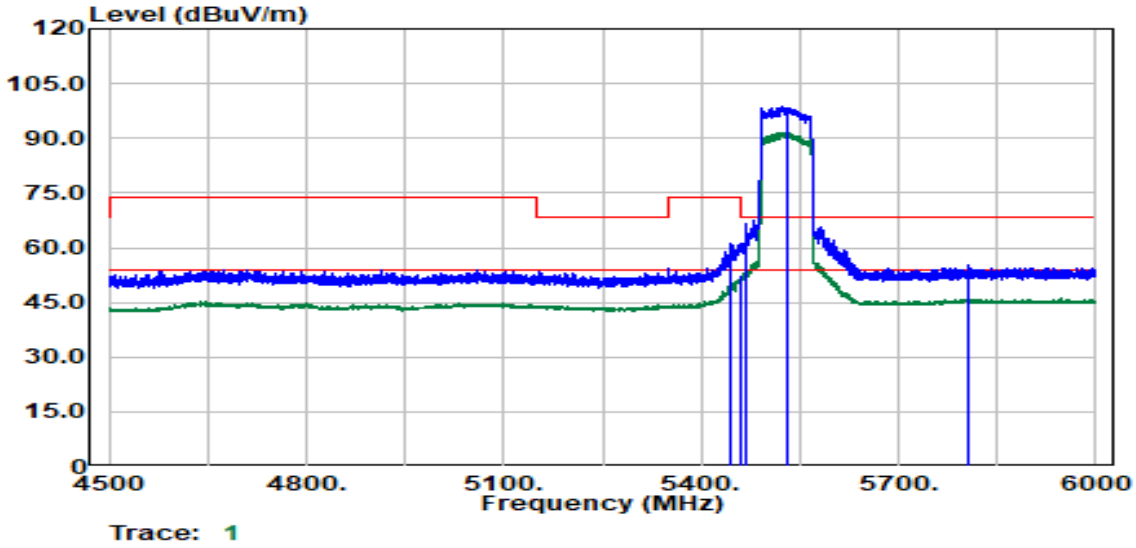
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5408.15	Peak	43.14	10.67	53.81	74.00	-20.19
5454.16	Average	33.66	10.85	44.52	54.00	-9.48
5463.66	Peak	42.68	10.86	53.54	68.20	-14.66
5670.00	Peak	93.35	11.89	105.24	--	--
5670.00	Average	86.99	11.89	98.88	--	--
5725.70	Peak	54.72	12.30	67.02	68.20	-1.18

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band3	Temp./Humi.	:25.1/61
Frequency	:5530 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:12.5		



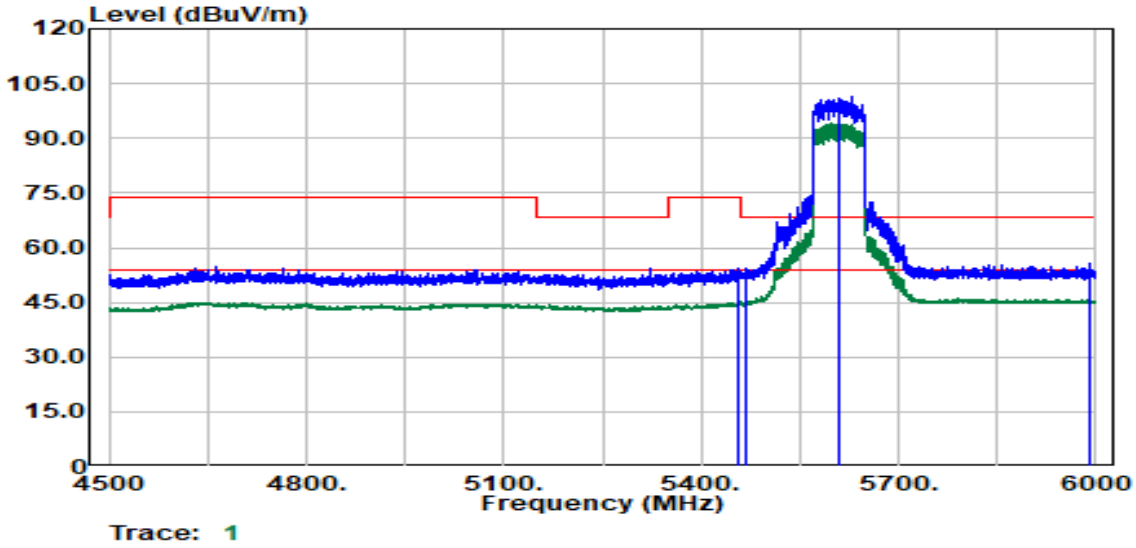
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5456.41	Peak	47.15	10.86	58.01	74.00	-15.99
5458.91	Average	37.74	10.86	48.59	54.00	-5.41
5461.66	Peak	51.30	10.86	62.16	68.20	-6.04
5530.00	Peak	87.36	11.07	98.43	--	--
5530.00	Average	79.47	11.07	90.55	--	--
5795.22	Peak	42.94	12.65	55.59	68.20	-12.61

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band3	Temp./Humi.	:25.1/61
Frequency	:5530 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:12.5		



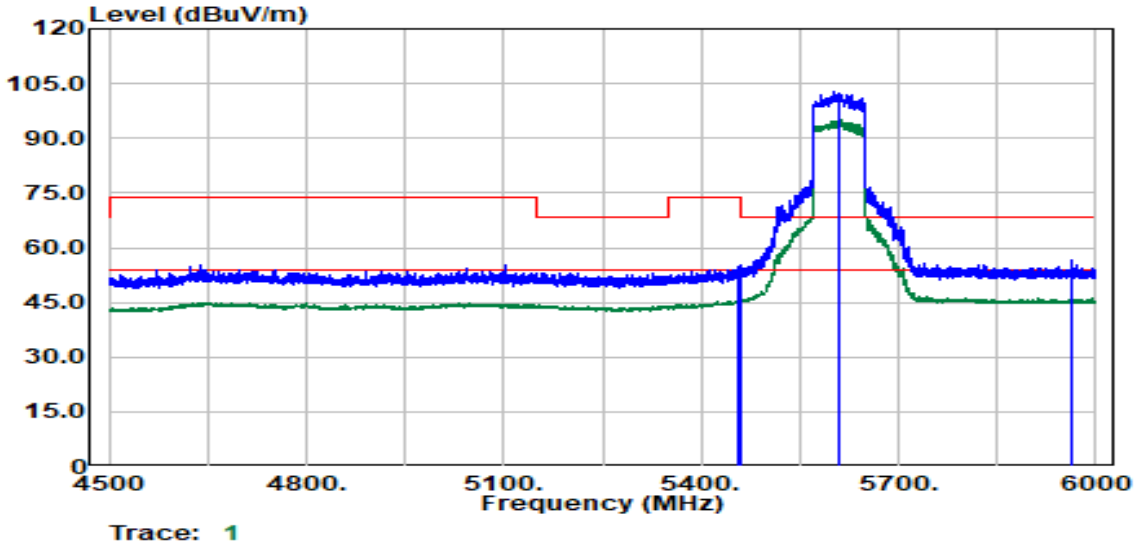
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5444.41	Peak	50.22	10.83	61.05	74.00	-12.95
5459.91	Average	41.80	10.86	52.66	54.00	-1.34
5468.16	Peak	56.38	10.87	67.24	68.20	-0.96
5530.00	Peak	87.45	11.07	98.52	--	--
5530.00	Average	80.42	11.07	91.49	--	--
5804.72	Peak	42.37	12.65	55.02	68.20	-13.18

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band3	Temp./Humi.	:25.1/61
Frequency	:5610 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



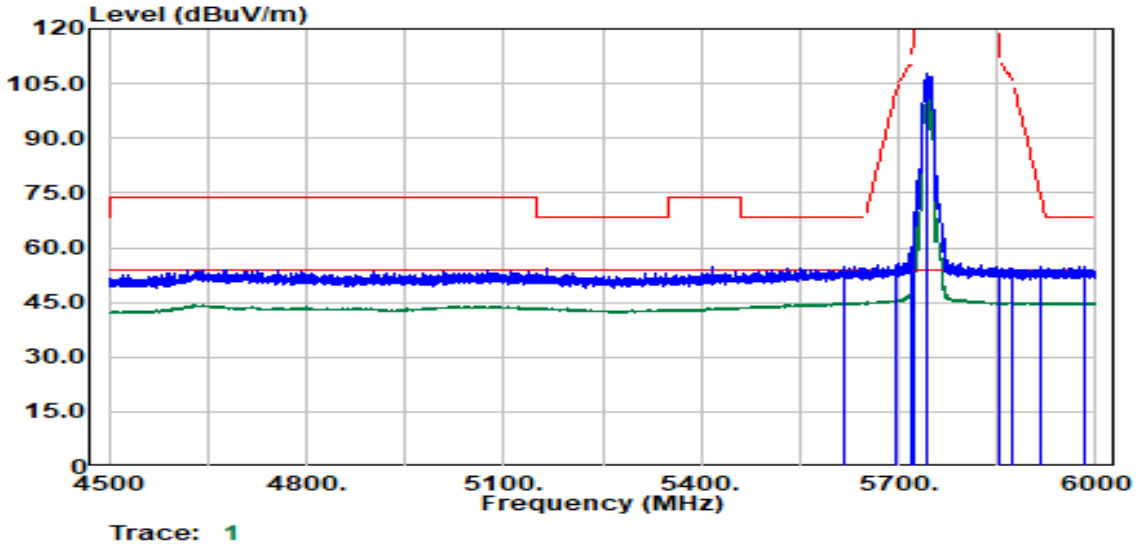
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5455.91	Average	34.03	10.86	44.89	54.00	-9.11
5456.41	Peak	43.30	10.86	54.15	74.00	-19.85
5468.41	Peak	43.36	10.87	54.23	68.20	-13.97
5610.00	Peak	89.80	11.50	101.30	--	--
5610.00	Average	82.65	11.50	94.15	--	--
5992.50	Peak	43.24	12.38	55.62	68.20	-12.58

Project No.	:TM-2309000356P	Test Date	:2023-10-05
Operation Band	:802.11ac80/Band3	Temp./Humi.	:25.1/61
Frequency	:5610 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



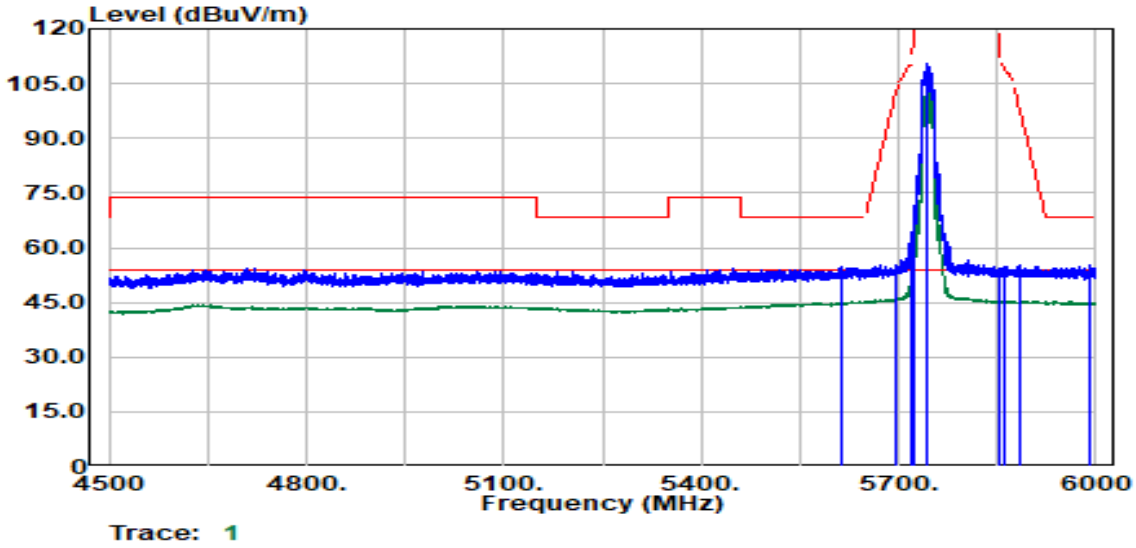
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5455.91	Average	35.19	10.86	46.05	54.00	-7.95
5456.66	Peak	43.73	10.86	54.58	74.00	-19.42
5460.91	Peak	44.47	10.86	55.33	68.20	-12.87
5610.00	Peak	91.21	11.50	102.71	--	--
5610.00	Average	83.38	11.50	94.88	--	--
5963.49	Peak	44.34	12.36	56.70	68.20	-11.50

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11a/Band4	Temp./Humi.	:25.0/61
Frequency	:5745 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



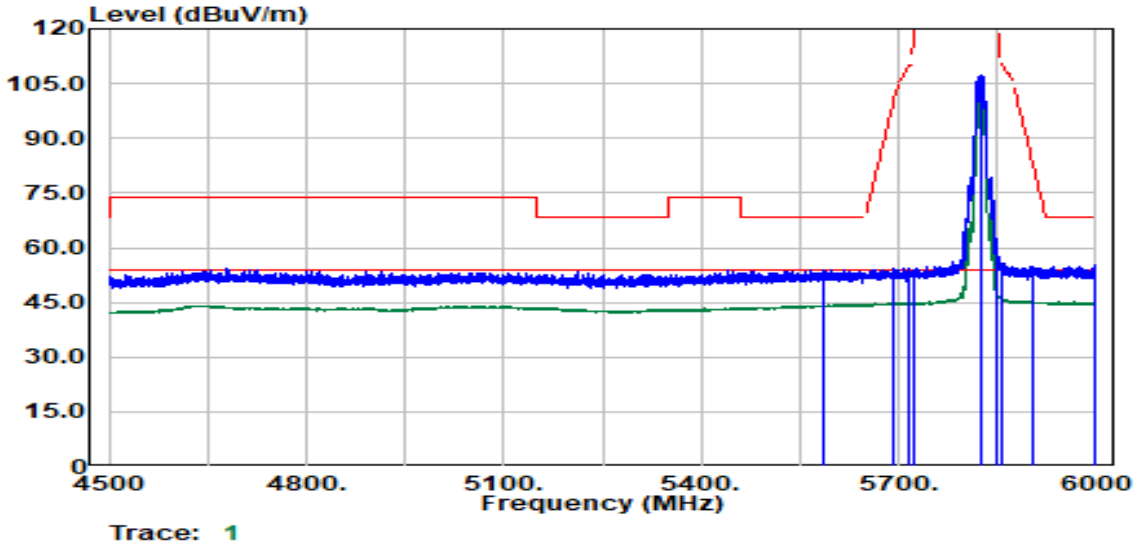
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5616.19	Peak	43.43	11.53	54.96	68.20	-13.24
5696.70	Peak	43.02	12.13	55.15	102.77	-47.62
5718.45	Peak	48.09	12.26	60.35	110.37	-50.02
5724.45	Peak	57.53	12.29	69.82	120.96	-51.13
5745.00	Peak	95.48	12.40	107.88	--	--
5745.00	Average	89.20	12.40	101.60	--	--
5853.48	Peak	41.32	12.46	53.78	114.27	-60.49
5871.23	Peak	42.04	12.42	54.47	106.25	-51.79
5914.24	Peak	42.61	12.36	54.97	76.14	-21.17
5983.25	Peak	42.59	12.38	54.96	68.20	-13.24

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11a/Band4	Temp./Humi.	:25.0/61
Frequency	:5745 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



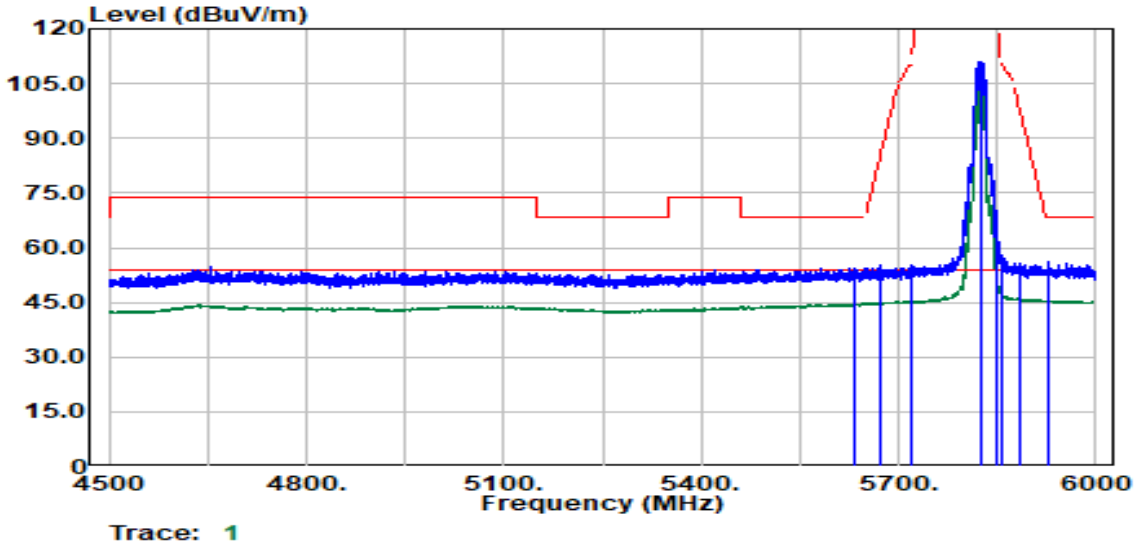
Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5612.44	Peak	43.21	11.51	54.73	68.20	-13.47
5695.45	Peak	43.26	12.12	55.38	101.85	-46.47
5718.45	Peak	51.06	12.26	63.31	110.37	-47.05
5723.70	Peak	59.38	12.29	71.67	119.25	-47.57
5745.00	Peak	97.94	12.40	110.35	--	--
5745.00	Average	91.18	12.40	103.59	--	--
5851.73	Peak	41.86	12.47	54.33	118.27	-63.94
5860.98	Peak	42.24	12.45	54.68	109.12	-54.44
5883.48	Peak	42.90	12.40	55.30	98.90	-43.61
5992.00	Peak	42.70	12.38	55.08	68.20	-13.12

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11a/Band4	Temp./Humi.	:25.0/61
Frequency	:5825 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5586.43	Peak	42.65	11.38	54.03	68.20	-14.17
5691.20	Peak	42.26	12.08	54.34	98.71	-44.37
5716.45	Peak	42.17	12.25	54.42	109.81	-55.39
5722.20	Peak	41.39	12.28	53.67	115.83	-62.16
5825.00	Peak	94.86	12.57	107.43	--	--
5825.00	Average	88.32	12.57	100.89	--	--
5850.00	Peak	46.52	12.47	58.99	122.20	-63.21
5855.48	Peak	43.46	12.46	55.92	110.67	-54.75
5904.73	Peak	42.56	12.36	54.92	83.16	-28.24
5997.00	Peak	43.04	12.39	55.43	68.20	-12.77

Project No.	:TM-2309000356P	Test Date	:2023-10-06
Operation Band	:802.11a/Band4	Temp./Humi.	:25.0/61
Frequency	:5825 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:Bandedge	Engineer	:Czerny Lin
EUT Pol	:H	Test Chamber	: 966D
Setting	:14.5		



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5631.69	Peak	42.90	11.61	54.52	68.20	-13.68
5672.20	Peak	43.36	11.91	55.27	84.66	-29.39
5719.70	Peak	42.11	12.27	54.37	110.72	-56.35
5720.70	Peak	42.76	12.27	55.03	112.41	-57.37
5825.00	Peak	98.57	12.57	111.14	--	--
5825.00	Average	91.74	12.57	104.31	--	--
5850.23	Peak	48.91	12.47	61.38	121.69	-60.30
5857.73	Peak	45.50	12.45	57.95	110.04	-52.09
5885.73	Peak	43.37	12.39	55.76	97.23	-41.47
5926.24	Peak	43.96	12.35	56.31	68.20	-11.89