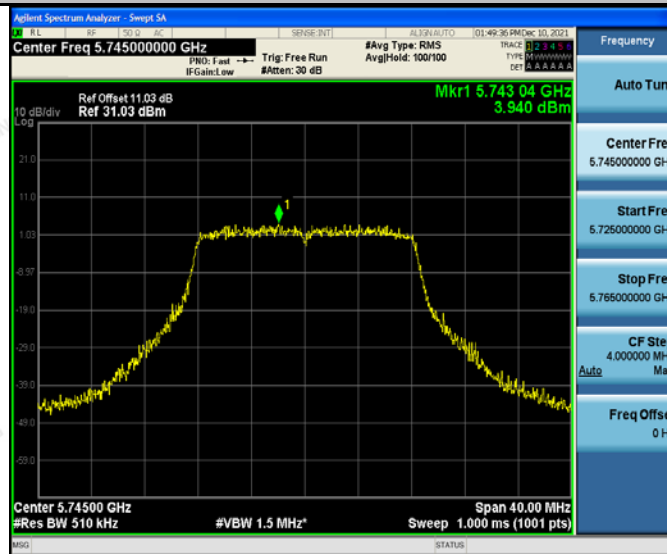


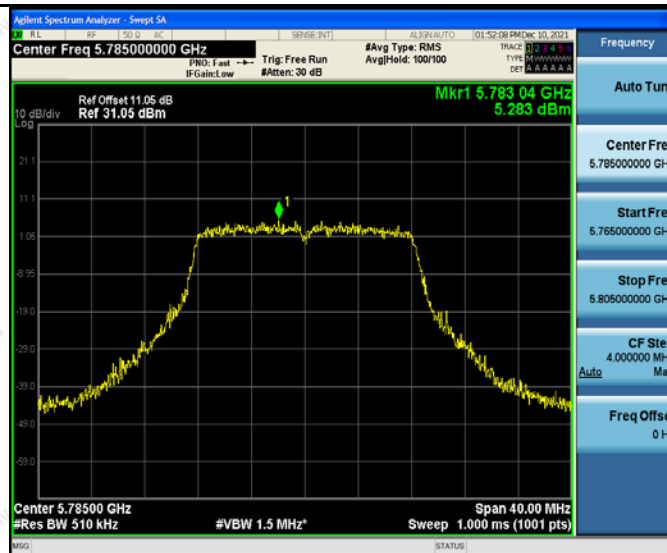


Band IV (5725-5850 MHz)

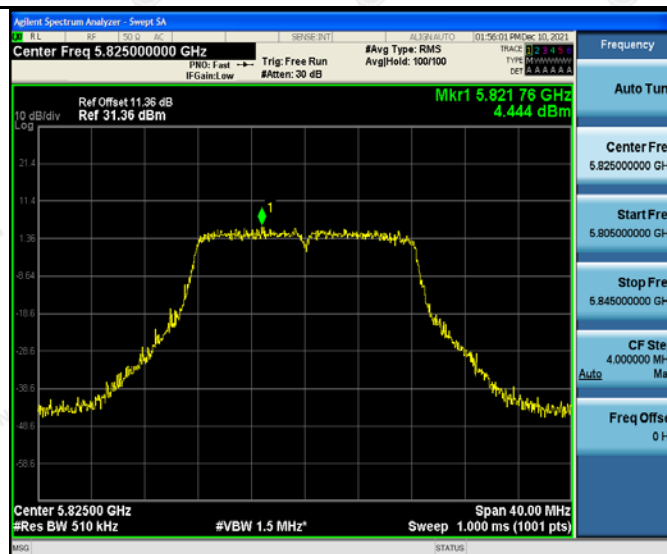
802.11a



Low



Mid

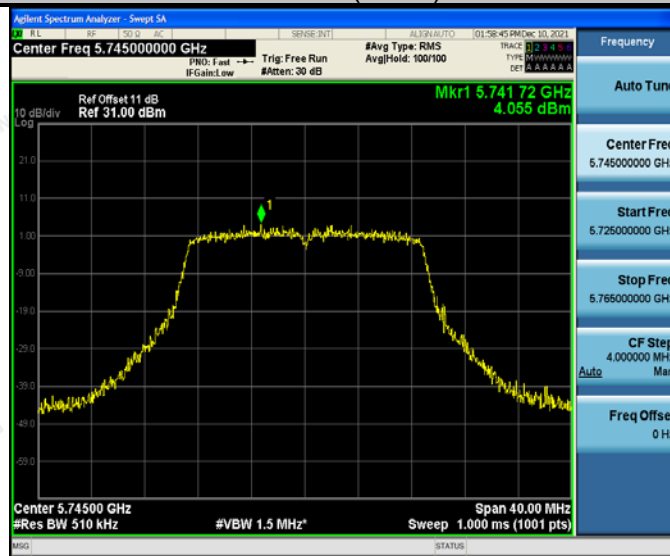


High

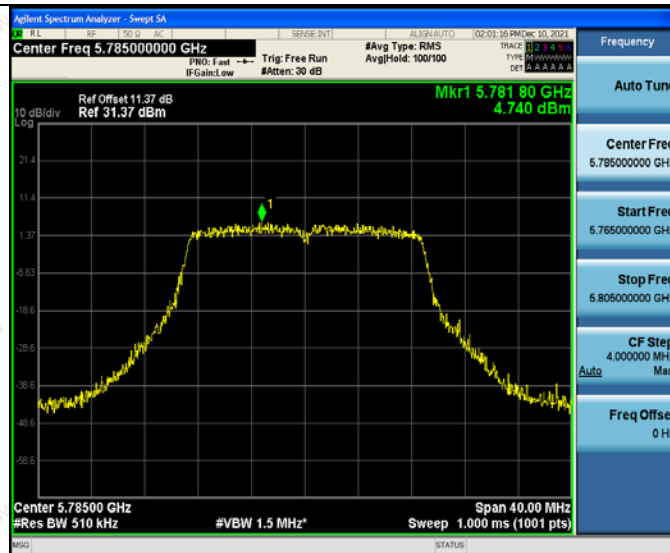
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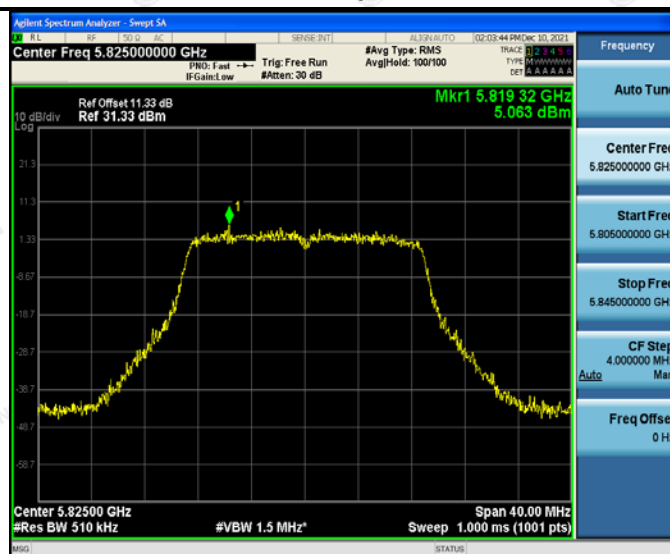
802.11n(HT20)



Low



Mid

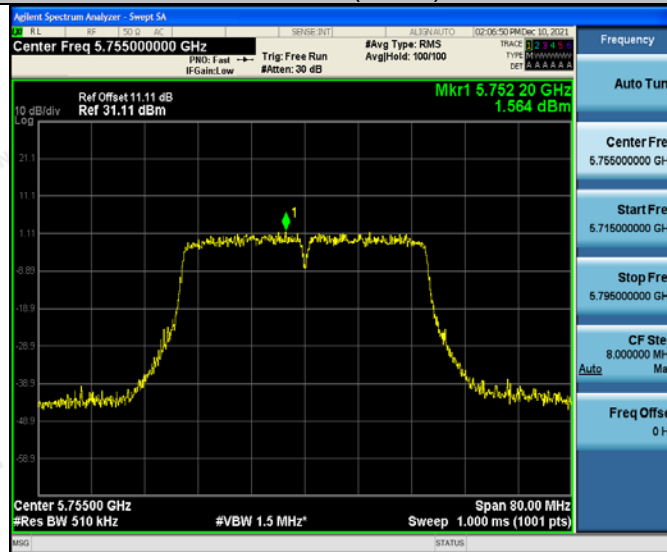


High

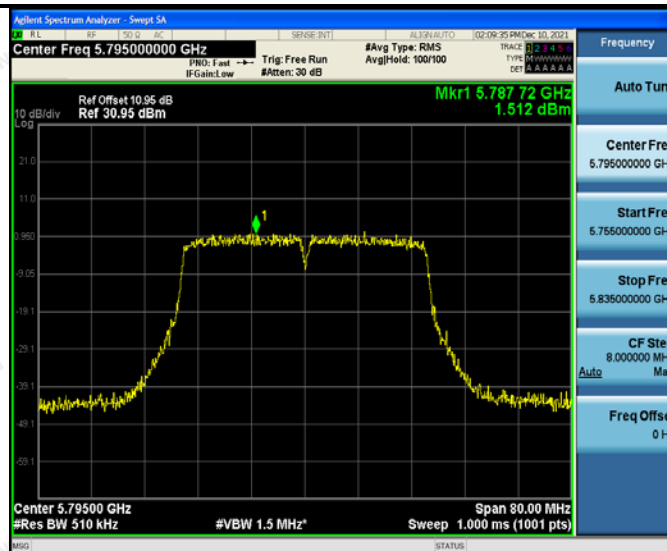
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802.11n(HT40)

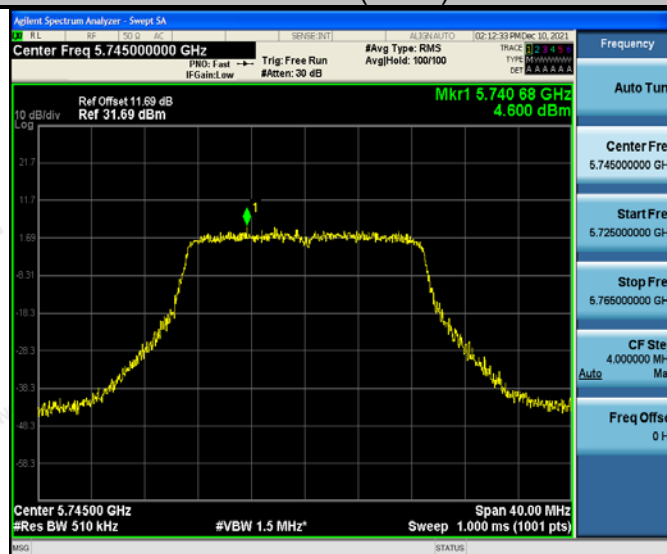


Low



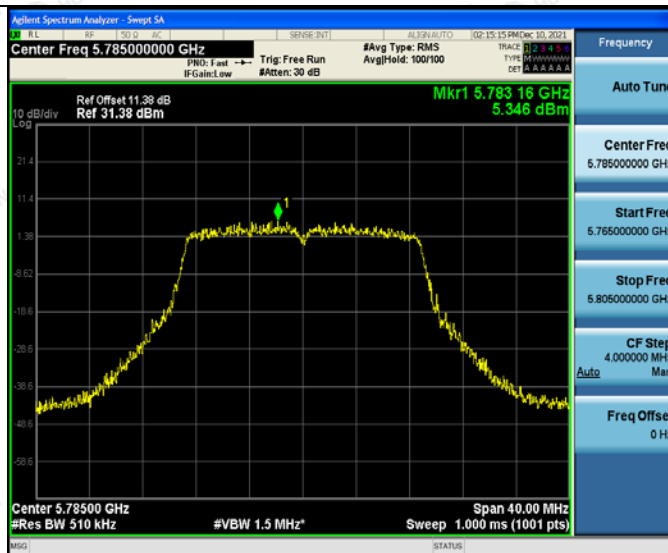
High

802.11ac(HT20)

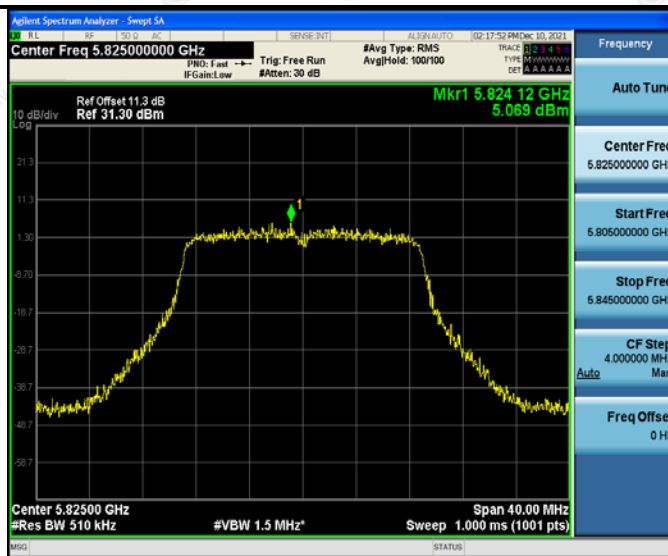


Low

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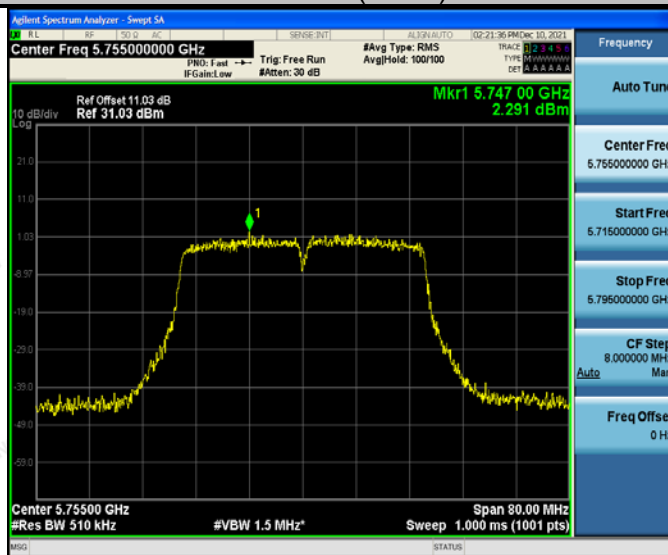


Mid



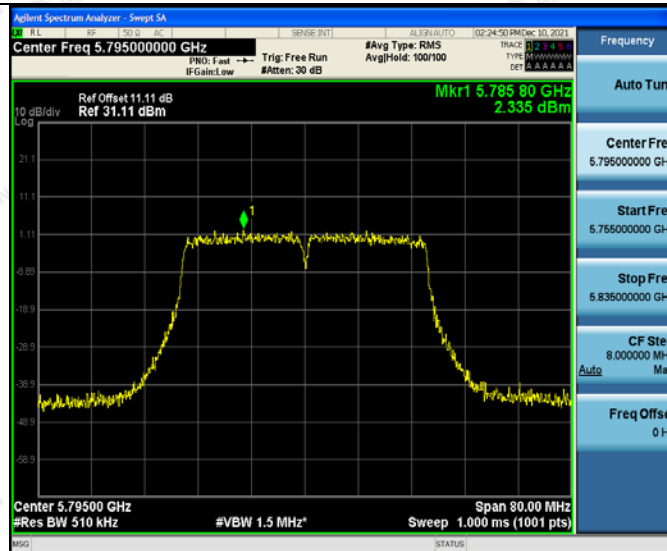
High

802.11ac(HT40)



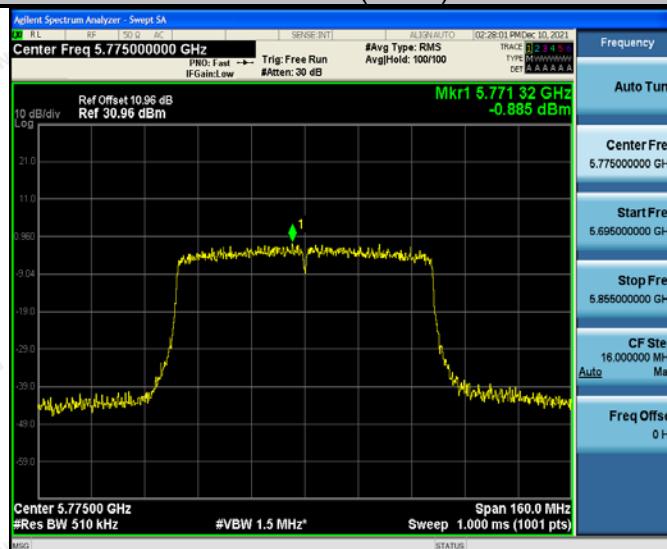
Low

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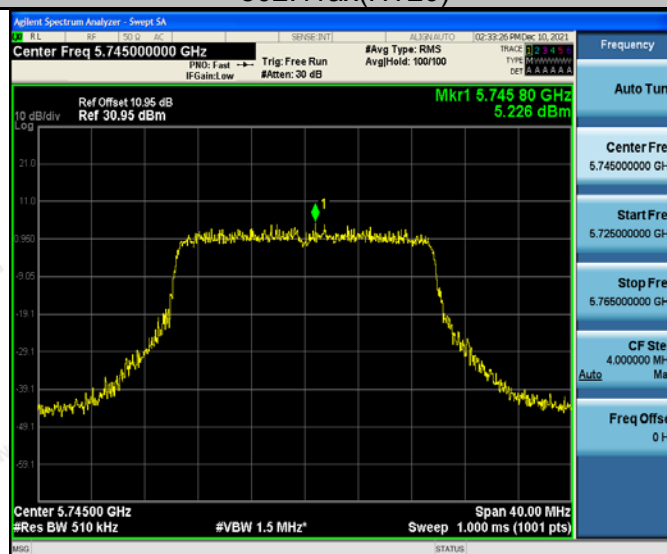


High

802.11ac(HT80)

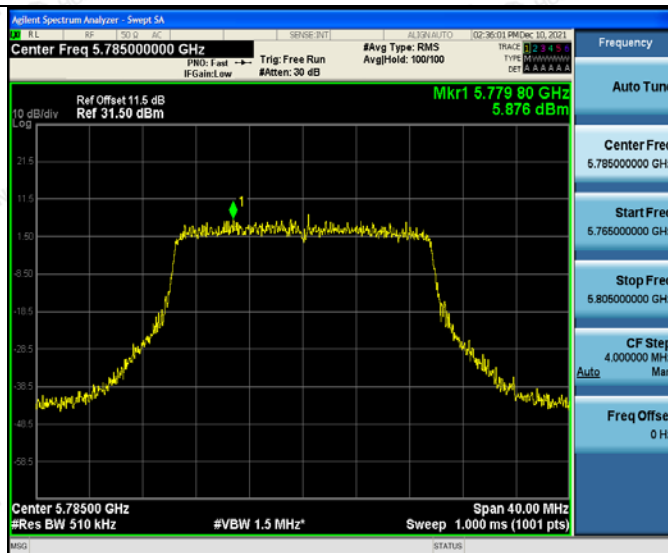


802.11ax(HT20)



Low

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Mid



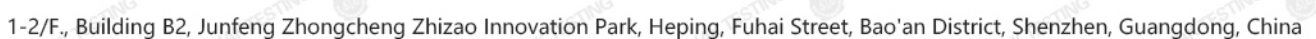
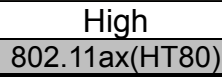
High

802.11ax(HT40)



Low

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ANT 2

Configuration Band IV (5725 - 5850 MHz)						
Mode	Test channel	Level [dBm/500kHz]	10log(1/x) Factor[dB]	Power Spectral Density	Limit (dBm/500kHz)	Result
11a	CH149	6.49	-0.086	6.404	30	PASS
11a	CH157	6.54	-0.086	6.454	30	PASS
11a	CH161	5.36	-0.086	5.274	30	PASS
11n(HT20)	CH149	5.7	-0.086	5.614	30	PASS
11n(HT20)	CH157	6.52	-0.086	6.434	30	PASS
11n(HT20)	CH161	5.52	-0.086	5.434	30	PASS
11n(HT40)	CH151	3.61	-0.086	3.524	30	PASS
11n(HT40)	CH159	3.12	-0.086	3.034	30	PASS
11ac(HT20)	CH149	7.1	-0.086	7.014	30	PASS
11ac(HT20)	CH157	6.15	-0.086	6.064	30	PASS
11ac(HT20)	CH161	4.81	-0.086	4.724	30	PASS
11ac(HT40)	CH151	3.76	-0.086	3.674	30	PASS
11ac(HT40)	CH159	3.56	-0.086	3.474	30	PASS
11ac(HT80)	CH155	0.37	-0.086	0.284	30	PASS
11ax(HT20)	CH149	7.59	-0.086	7.504	30	PASS
11ax(HT20)	CH157	8.18	-0.086	8.094	30	PASS
11ax(HT20)	CH161	6.69	-0.086	6.604	30	PASS
11ax(HT40)	CH151	4.83	-0.086	4.744	30	PASS
11ax(HT40)	CH159	4.41	-0.086	4.324	30	PASS
11ax(HT80)	CH155	2.58	-0.086	2.494	30	PASS

Test plots as follows:

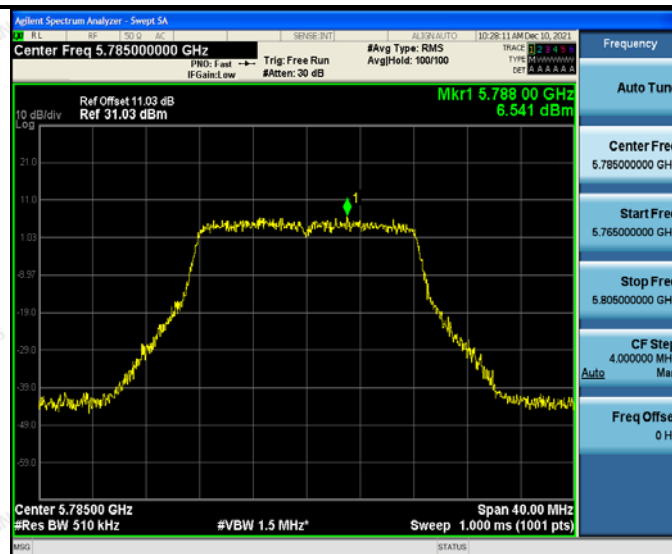


Band IV (5725 – 5850 MHz)

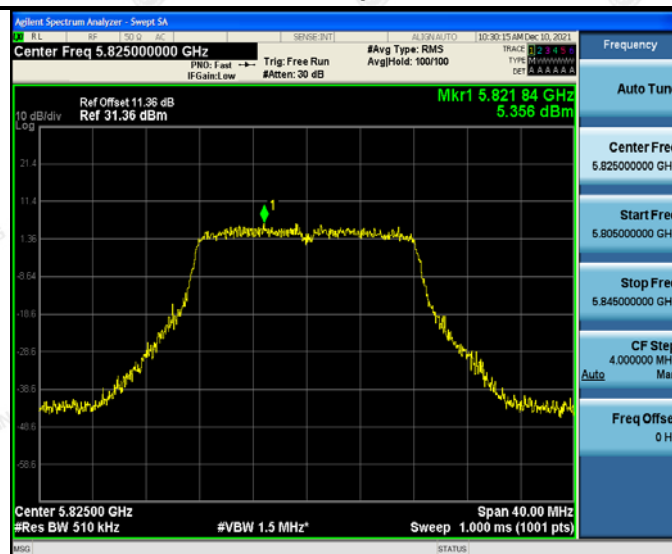
802.11a



Low



Mid

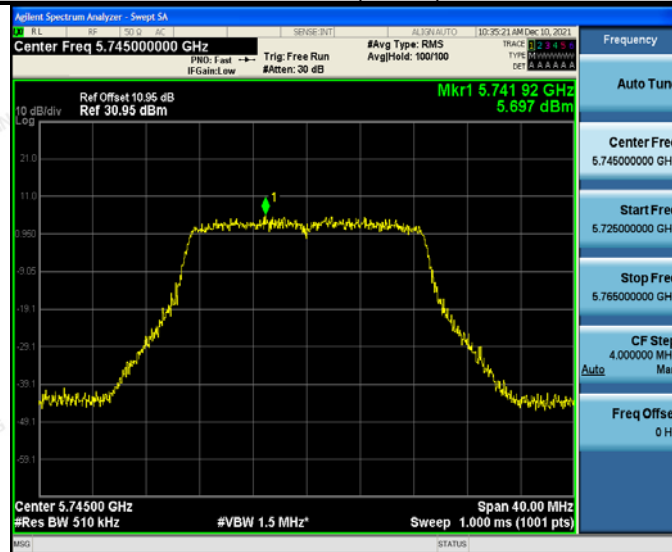


High

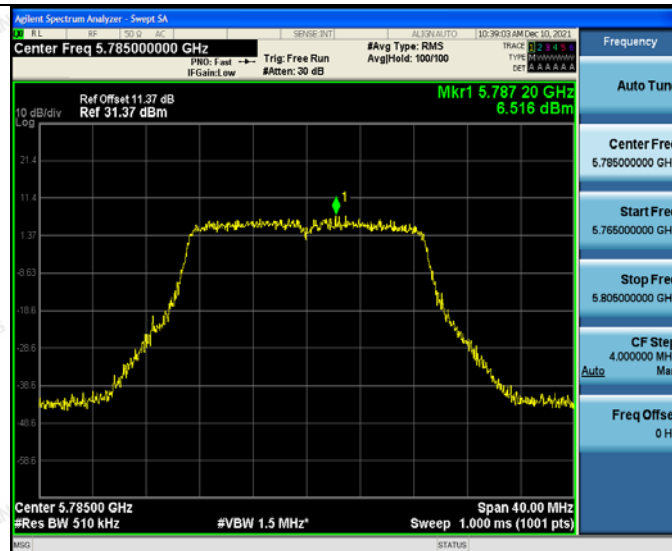
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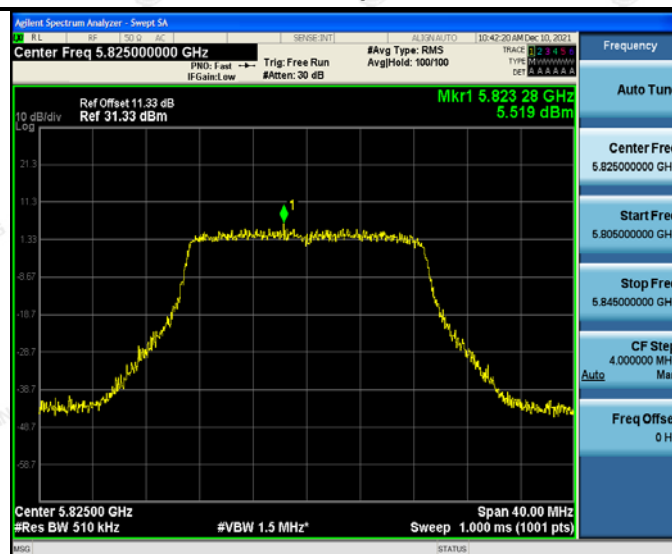
802.11n(HT20)



Low



Mid

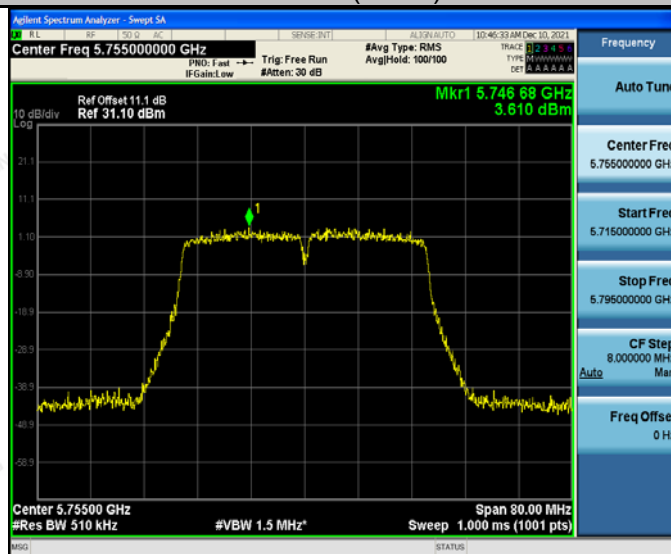


High

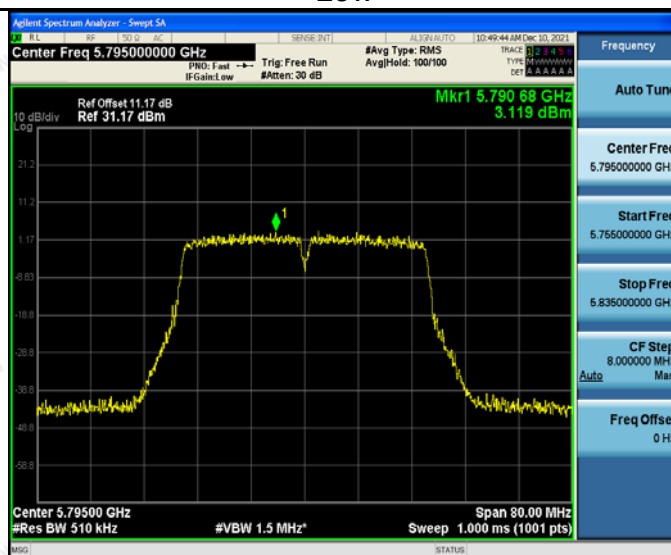
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802.11n(HT40)

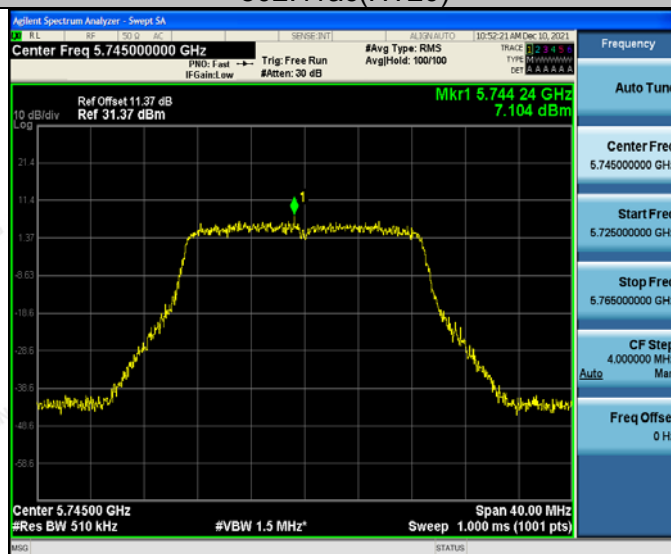


Low



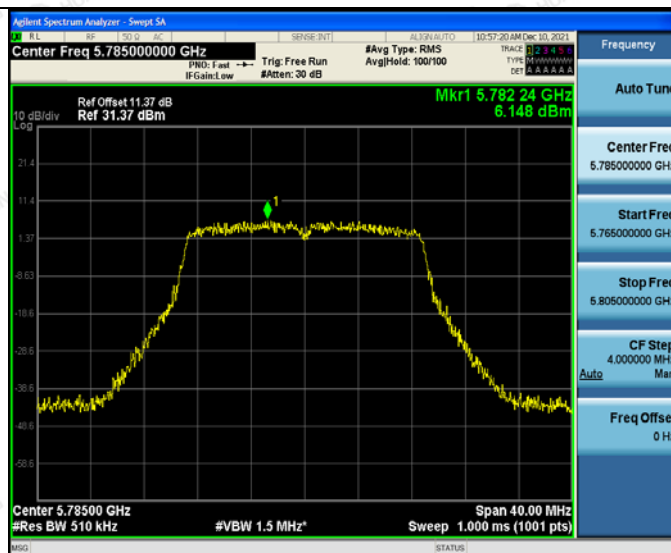
High

802.11ac(HT20)

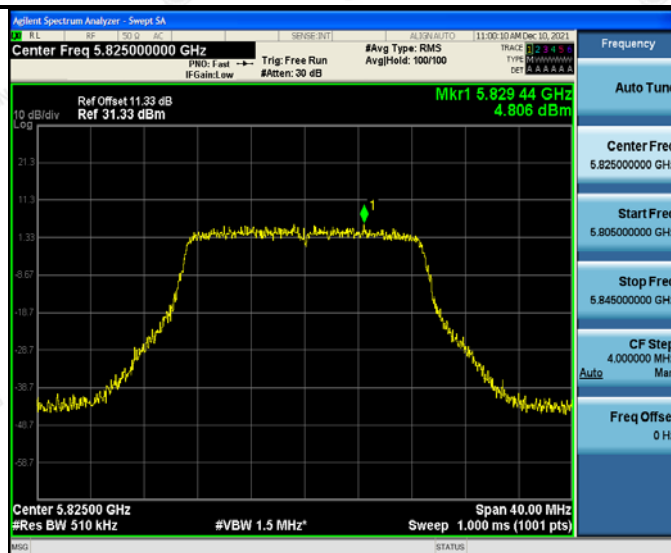


Low

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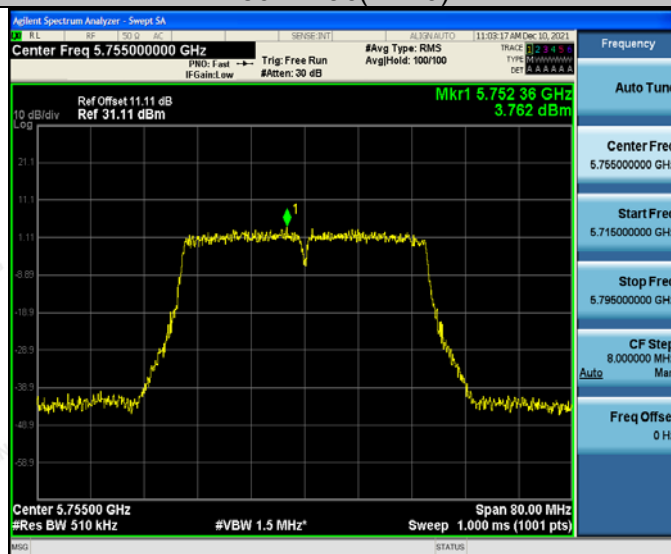


Mid



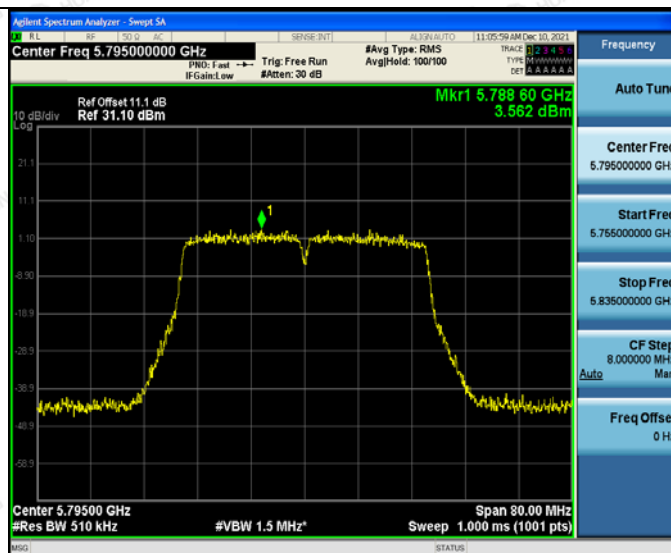
High

802.11ac(HT40)

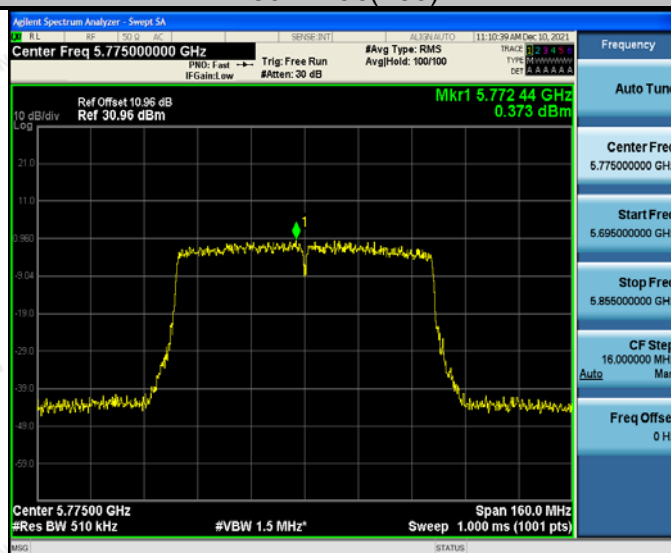


Low

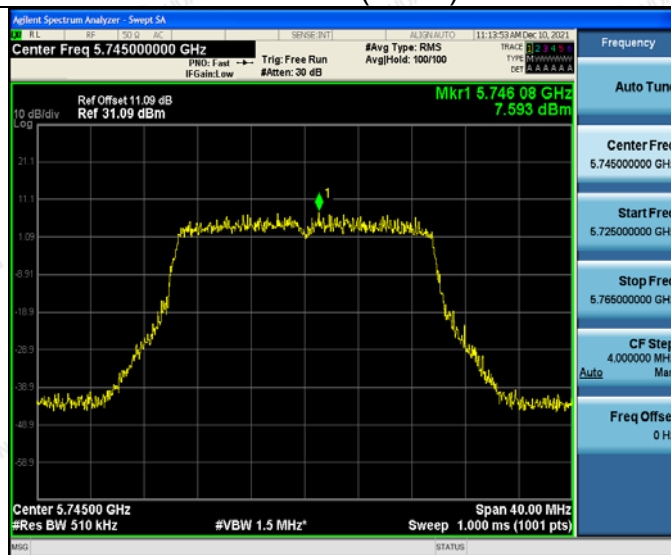
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High
802.11ac(T80)

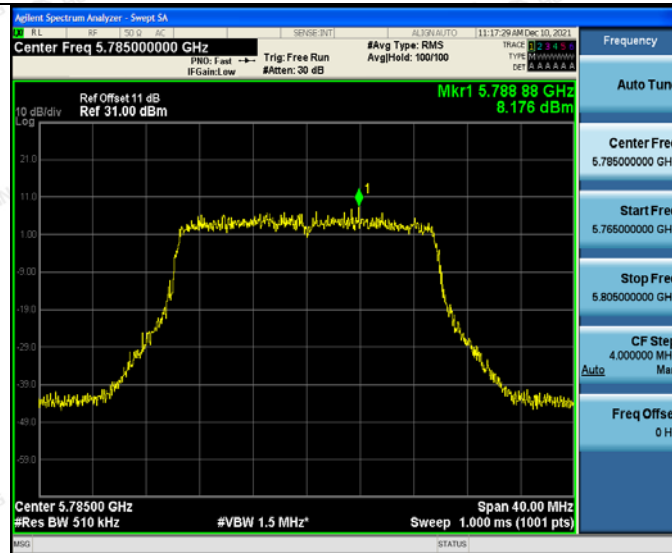


802.11ax(HT20)



Low

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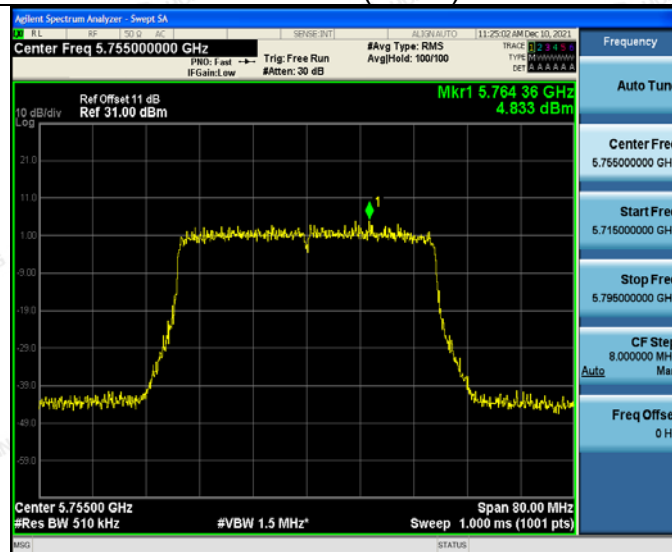


Mid



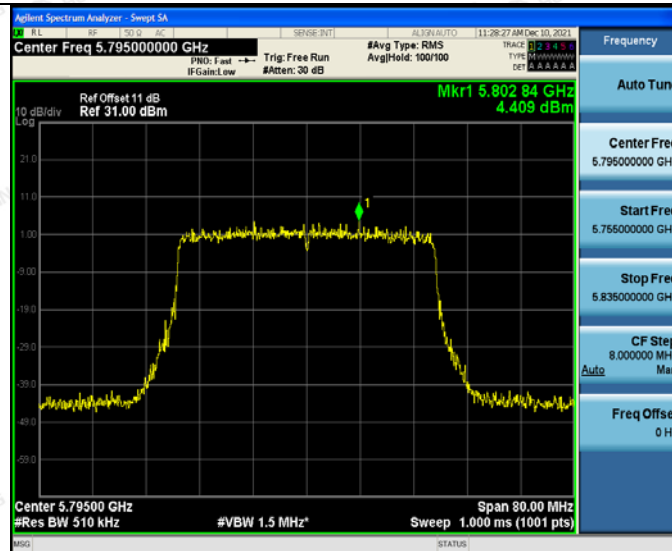
High

802.11ax(HT40)

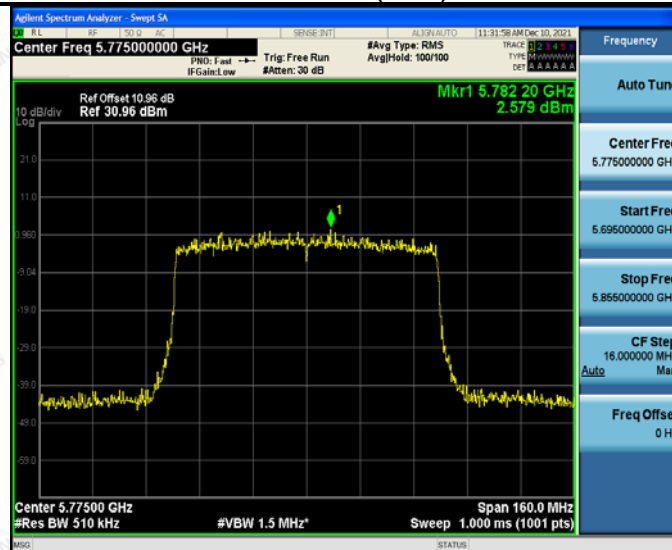


Low

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High
802.11ax(T80)





For MIMO antenna port 1+antenna port 2

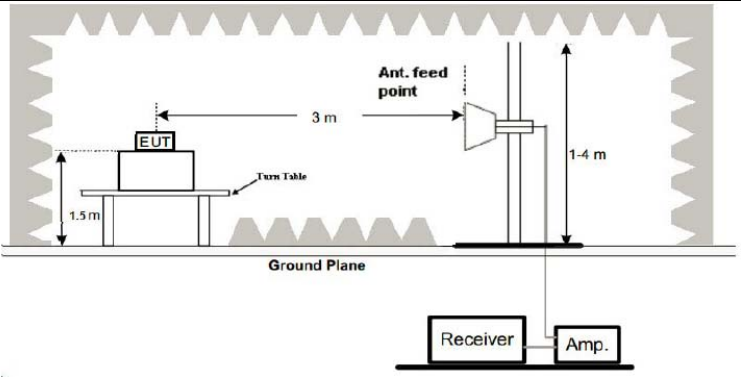
Configuration Band IV (5725 - 5850 MHz)				
Mode	Test channel	Power Density (dBm)	Limit (dBm)	Result
11n(HT20)	CH149	7.88	29.99	PASS
11n(HT20)	CH157	8.64	29.99	PASS
11n(HT20)	CH161	8.22	29.99	PASS
11n(HT40)	CH151	5.63	29.99	PASS
11n(HT40)	CH159	5.31	29.99	PASS
11ac(HT20)	CH149	8.95	29.99	PASS
11ac(HT20)	CH157	8.69	29.99	PASS
11ac(HT20)	CH161	7.87	29.99	PASS
11ac(HT40)	CH151	6.01	29.99	PASS
11ac(HT40)	CH159	5.92	29.99	PASS
11ac(HT80)	CH155	2.71	29.99	PASS
11ax(HT20)	CH149	9.49	29.99	PASS
11ax(HT20)	CH157	10.10	29.99	PASS
11ax(HT20)	CH161	9.49	29.99	PASS
11ax(HT40)	CH151	6.81	29.99	PASS
11ax(HT40)	CH159	6.93	29.99	PASS
11ax(HT80)	CH155	5.02	29.99	PASS
Note: 1 According to KDB 662911, Result power = $10\log(10^{(\text{ant1}/10)} + 10^{(\text{ant2}/10)})$. 2 Result unit: W, The end result is converted to units of dBm. limit=30dBm-(direction gain-6dBi)=30-(3+10log2-6)=29.99dBm				

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n/ac/ax for MIMO mode, not support 802.11 a for MIMO mode.



4.6. BAND EDGE

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10 2013
Limit:	(1)For transmitters operating in the 5.725-5.85 GHz band: (i) 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. The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.
Test Setup:	 The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a turn table at a height of 1.5 m. The turn table is 3 m away from an antenna feed point. The antenna is mounted on a variable-height tower, with the height indicated as 1-4 m. The antenna is connected to a receiver and an amplifier. The entire setup is on a ground plane.
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.
Test Result:	PASS



4.6.2. Test Instruments

Radiated Emission Test Site (966)

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESRP3	HKE-005	Dec. 09, 2021	Dec. 08, 2022
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 09, 2021	Dec. 08, 2022
Preamplifier	EMCI	EMC051845S E	HKE-015	Dec. 09, 2021	Dec. 08, 2022
Preamplifier	Agilent	83051A	HKE-016	Dec. 09, 2021	Dec. 08, 2022
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 09, 2021	Dec. 08, 2022
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 09, 2021	Dec. 08, 2022
Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 09, 2021	Dec. 08, 2022
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Dec. 09, 2021	Dec. 08, 2022
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable (9KHz-1GHz)	Times	381806-001	N/A	N/A	N/A
Hf antenna	Schwarzbeck	LB-180400-KF	HKE-031	Dec. 09, 2021	Dec. 08, 2022
RF cable	Tonscend	1-18G	HKE-099	Dec. 09, 2021	Dec. 08, 2022
RF cable	Times	1-40G	HKE-034	Dec. 09, 2021	Dec. 08, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	HKE-017	Dec. 09, 2021	Dec. 08, 2022
Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 09, 2021	Dec. 08, 2022

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

**4.6.3. Test Data****ANT 1**

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.81	-2.06	54.75	68.2	-13.45	peak
5700	87.45	-1.96	85.49	105.2	-19.71	peak
5720	94.03	-2.87	91.16	110.8	-19.64	peak
5725	110.26	-2.14	108.12	122.2	-14.08	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.59	-2.06	56.53	68.2	-11.67	peak
5700	87.25	-1.96	85.29	105.2	-19.91	peak
5720	93.98	-2.87	91.11	110.8	-19.69	peak
5725	111.35	-2.14	109.21	122.2	-12.99	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.88	-1.97	108.91	122.2	-13.29	peak
5855	93.16	-2.13	91.03	110.8	-19.77	peak
5875	88.78	-2.65	86.13	105.2	-19.07	peak
5925	52.28	-2.28	50	68.2	-18.2	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	104.46	-1.97	102.49	122.2	-19.71	peak
5855	94.07	-2.13	91.94	110.8	-18.86	peak
5875	87.04	-2.65	84.39	105.2	-20.81	peak
5925	54.36	-2.28	52.08	68.2	-16.12	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.61	-2.06	54.55	68.2	-13.65	peak
5700	90.24	-1.96	88.28	105.2	-16.92	peak
5720	95.72	-2.87	92.85	110.8	-17.95	peak
5725	112.23	-2.14	110.09	122.2	-12.11	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.94	-2.06	55.88	68.2	-12.32	peak
5700	95.61	-1.96	93.65	105.2	-11.55	peak
5720	97.01	-2.87	94.14	110.8	-16.66	peak
5725	111.83	-2.14	109.69	122.2	-12.51	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.16	-1.97	107.19	122.2	-15.01	peak
5855	95.35	-2.13	93.22	110.8	-17.58	peak
5875	94.92	-2.65	92.27	105.2	-12.93	peak
5925	52.87	-2.28	50.59	68.2	-17.61	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	106.29	-1.97	104.32	122.2	-17.88	peak
5855	93.77	-2.13	91.64	110.8	-19.16	peak
5875	88.49	-2.65	85.84	105.2	-19.36	peak
5925	55.93	-2.28	53.65	68.2	-14.55	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.32	-2.06	56.26	68.2	-11.94	peak
5700	92.44	-1.96	90.48	105.2	-14.72	peak
5720	93.15	-2.87	90.28	110.8	-20.52	peak
5725	110.81	-2.14	108.67	122.2	-13.53	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.57	-2.06	56.51	68.2	-11.69	peak
5700	91.77	-1.96	89.81	105.2	-15.39	peak
5720	95.06	-2.87	92.19	110.8	-18.61	peak
5725	110.13	-2.14	107.99	122.2	-14.21	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	105.37	-1.97	103.4	122.2	-18.8	peak
5855	93.43	-2.13	91.3	110.8	-19.5	peak
5875	87.89	-2.65	85.24	105.2	-19.96	peak
5925	52.98	-2.28	50.7	68.2	-17.5	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	106.49	-1.97	104.52	122.2	-17.68	peak
5855	93.23	-2.13	91.1	110.8	-19.7	peak
5875	89.05	-2.65	86.4	105.2	-18.8	peak
5925	54.68	-2.28	52.4	68.2	-15.8	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.88	-2.06	54.82	68.2	-13.38	peak
5700	87.42	-1.96	85.46	105.2	-19.74	peak
5720	94.43	-2.87	91.56	110.8	-19.24	peak
5725	110.16	-2.14	108.02	122.2	-14.18	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.42	-2.06	55.36	68.2	-12.84	peak
5700	90.67	-1.96	88.71	105.2	-16.49	peak
5720	96.25	-2.87	93.38	110.8	-17.42	peak
5725	110.19	-2.14	108.05	122.2	-14.15	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.97	-1.97	108	122.2	-14.2	peak
5855	95.57	-2.13	93.44	110.8	-17.36	peak
5875	90.33	-2.65	87.68	105.2	-17.52	peak
5925	53.21	-2.28	50.93	68.2	-17.27	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.89	-1.97	107.92	122.2	-14.28	peak
5855	93.95	-2.13	91.82	110.8	-18.98	peak
5875	87.16	-2.65	84.51	105.2	-20.69	peak
5925	55.25	-2.28	52.97	68.2	-15.23	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.38	-2.06	56.32	68.2	-11.88	peak
5700	87.71	-1.96	85.75	105.2	-19.45	peak
5720	93.32	-2.87	90.45	110.8	-20.35	peak
5725	110.31	-2.14	108.17	122.2	-14.03	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.03	-2.06	55.97	68.2	-12.23	peak
5700	88.45	-1.96	86.49	105.2	-18.71	peak
5720	94.21	-2.87	91.34	110.8	-19.46	peak
5725	111.45	-2.14	109.31	122.2	-12.89	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	112.86	-1.97	110.89	122.2	-11.31	peak
5855	94.16	-2.13	92.03	110.8	-18.77	peak
5875	87.86	-2.65	85.21	105.2	-19.99	peak
5925	55.65	-2.28	53.37	68.2	-14.83	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.13	-1.97	109.16	122.2	-13.04	peak
5855	93.52	-2.13	91.39	110.8	-19.41	peak
5875	90.12	-2.65	87.47	105.2	-17.73	peak
5925	59.76	-2.28	57.48	68.2	-10.72	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.41	-2.06	54.35	68.2	-13.85	peak
5700	88.54	-1.96	86.58	105.2	-18.62	peak
5720	94.75	-2.87	91.88	110.8	-18.92	peak
5725	110.51	-2.14	108.37	122.2	-13.83	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.81	-2.06	55.75	68.2	-12.45	peak
5700	88.91	-1.96	86.95	105.2	-18.25	peak
5720	93.23	-2.87	90.36	110.8	-20.44	peak
5725	111.31	-2.14	109.17	122.2	-13.03	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.14	-1.97	108.17	122.2	-14.03	peak
5855	94.62	-2.13	92.49	110.8	-18.31	peak
5875	90.02	-2.65	87.37	105.2	-17.83	peak
5925	51.58	-2.28	49.3	68.2	-18.9	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.32	-1.97	107.35	122.2	-14.85	peak
5855	93.94	-2.13	91.81	110.8	-18.99	peak
5875	89.94	-2.65	87.29	105.2	-17.91	peak
5925	55.55	-2.28	53.27	68.2	-14.93	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.22	-2.06	55.16	68.2	-13.04	peak
5700	89.4	-1.96	87.44	105.2	-17.76	peak
5720	93.72	-2.87	90.85	110.8	-19.95	peak
5725	111.62	-2.14	109.48	122.2	-12.72	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.82	-2.06	55.76	68.2	-12.44	peak
5700	90.78	-1.96	88.82	105.2	-16.38	peak
5720	94.61	-2.87	91.74	110.8	-19.06	peak
5725	109.17	-2.14	107.03	122.2	-15.17	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.33	-1.97	107.36	122.2	-14.84	peak
5855	94.75	-2.13	92.62	110.8	-18.18	peak
5875	88.99	-2.65	86.34	105.2	-18.86	peak
5925	55.52	-2.28	53.24	68.2	-14.96	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.35	-1.97	107.38	122.2	-14.82	peak
5855	93.54	-2.13	91.41	110.8	-19.39	peak
5875	89.49	-2.65	86.84	105.2	-18.36	peak
5925	55.81	-2.28	53.53	68.2	-14.67	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.68	-2.06	55.62	68.2	-12.58	peak
5700	87.49	-1.96	85.53	105.2	-19.67	peak
5720	95.29	-2.87	92.42	110.8	-18.38	peak
5725	109.65	-2.14	107.51	122.2	-14.69	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.21	-2.06	54.15	68.2	-14.05	peak
5700	88.07	-1.96	86.11	105.2	-19.09	peak
5720	93.56	-2.87	90.69	110.8	-20.11	peak
5725	109.71	-2.14	107.57	122.2	-14.63	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	113.42	-1.97	111.45	122.2	-10.75	peak
5855	95.28	-2.13	93.15	110.8	-17.65	peak
5875	89.85	-2.65	87.2	105.2	-18	peak
5925	54.97	-2.28	52.69	68.2	-15.51	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.56	-1.97	109.59	122.2	-12.61	peak
5855	93.77	-2.13	91.64	110.8	-19.16	peak
5875	89.66	-2.65	87.01	105.2	-18.19	peak
5925	59.17	-2.28	56.89	68.2	-11.31	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax80 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.47	-2.06	55.41	68.2	-12.79	peak
5700	88.62	-1.96	86.66	105.2	-18.54	peak
5720	94.27	-2.87	91.4	110.8	-19.4	peak
5725	109.73	-2.14	107.59	122.2	-14.61	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.36	-2.06	55.3	68.2	-12.9	peak
5700	93.66	-1.96	91.7	105.2	-13.5	peak
5720	94.75	-2.87	91.88	110.8	-18.92	peak
5725	111.71	-2.14	109.57	122.2	-12.63	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.46	-1.97	108.49	122.2	-13.71	peak
5855	94.86	-2.13	92.73	110.8	-18.07	peak
5875	88.27	-2.65	85.62	105.2	-19.58	peak
5925	51.23	-2.28	48.95	68.2	-19.25	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.95	-1.97	108.98	122.2	-13.22	peak
5855	93.43	-2.13	91.3	110.8	-19.5	peak
5875	89.76	-2.65	87.11	105.2	-18.09	peak
5925	56.67	-2.28	54.39	68.2	-13.81	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**ANT 2**

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	55.72	-2.06	53.66	68.2	-14.54	peak
5700	91.56	-1.96	89.6	105.2	-15.6	peak
5720	94.41	-2.87	91.54	110.8	-19.26	peak
5725	109.82	-2.14	107.68	122.2	-14.52	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.24	-2.06	55.18	68.2	-13.02	peak
5700	90.34	-1.96	88.38	105.2	-16.82	peak
5720	95.76	-2.87	92.89	110.8	-17.91	peak
5725	108.87	-2.14	106.73	122.2	-15.47	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.53	-1.97	106.56	122.2	-15.64	peak
5855	95.54	-2.13	93.41	110.8	-17.39	peak
5875	87.07	-2.65	84.42	105.2	-20.78	peak
5925	56.46	-2.28	54.18	68.2	-14.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.74	-1.97	105.77	122.2	-16.43	peak
5855	93.24	-2.13	91.11	110.8	-19.69	peak
5875	87.45	-2.65	84.8	105.2	-20.4	peak
5925	55.77	-2.28	53.49	68.2	-14.71	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.61	-2.06	55.55	68.2	-12.65	peak
5700	90.18	-1.96	88.22	105.2	-16.98	peak
5720	94.79	-2.87	91.92	110.8	-18.88	peak
5725	109.28	-2.14	107.14	122.2	-15.06	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.53	-2.06	55.47	68.2	-12.73	peak
5700	91.11	-1.96	89.15	105.2	-16.05	peak
5720	94.39	-2.87	91.52	110.8	-19.28	peak
5725	108.34	-2.14	106.2	122.2	-16	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.66	-1.97	106.69	122.2	-15.51	peak
5855	92.04	-2.13	89.91	110.8	-20.89	peak
5875	88.54	-2.65	85.89	105.2	-19.31	peak
5925	52.19	-2.28	49.91	68.2	-18.29	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	106.62	-1.97	104.65	122.2	-17.55	peak
5855	94.26	-2.13	92.13	110.8	-18.67	peak
5875	87.06	-2.65	84.41	105.2	-20.79	peak
5925	57.27	-2.28	54.99	68.2	-13.21	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	51.85	-2.06	49.79	68.2	-18.41	peak
5700	92.15	-1.96	90.19	105.2	-15.01	peak
5720	94.06	-2.87	91.19	110.8	-19.61	peak
5725	107.57	-2.14	105.43	122.2	-16.77	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.75	-2.06	55.69	68.2	-12.51	peak
5700	94.09	-1.96	92.13	105.2	-13.07	peak
5720	93.87	-2.87	91	110.8	-19.8	peak
5725	109.79	-2.14	107.65	122.2	-14.55	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	106.43	-1.97	104.46	122.2	-17.74	peak
5855	93.01	-2.13	90.88	110.8	-19.92	peak
5875	88.98	-2.65	86.33	105.2	-18.87	peak
5925	53.35	-2.28	51.07	68.2	-17.13	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.16	-1.97	105.19	122.2	-17.01	peak
5855	93.93	-2.13	91.8	110.8	-19	peak
5875	88.88	-2.65	86.23	105.2	-18.97	peak
5925	51.84	-2.28	49.56	68.2	-18.64	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	60.13	-2.06	58.07	68.2	-10.13	peak
5700	89.91	-1.96	87.95	105.2	-17.25	peak
5720	93.95	-2.87	91.08	110.8	-19.72	peak
5725	109.84	-2.14	107.7	122.2	-14.5	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.97	-2.06	56.91	68.2	-11.29	peak
5700	90.41	-1.96	88.45	105.2	-16.75	peak
5720	95.82	-2.87	92.95	110.8	-17.85	peak
5725	110.13	-2.14	107.99	122.2	-14.21	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.97	-1.97	109	122.2	-13.2	peak
5855	94.56	-2.13	92.43	110.8	-18.37	peak
5875	90.52	-2.65	87.87	105.2	-17.33	peak
5925	53.81	-2.28	51.53	68.2	-16.67	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	106.12	-1.97	104.15	122.2	-18.05	peak
5855	95.67	-2.13	93.54	110.8	-17.26	peak
5875	90.25	-2.65	87.6	105.2	-17.6	peak
5925	55.42	-2.28	53.14	68.2	-15.06	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.78	-2.06	54.72	68.2	-13.48	peak
5700	87.89	-1.96	85.93	105.2	-19.27	peak
5720	95.28	-2.87	92.41	110.8	-18.39	peak
5725	106.55	-2.14	104.41	122.2	-17.79	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.11	-2.06	56.05	68.2	-12.15	peak
5700	91.03	-1.96	89.07	105.2	-16.13	peak
5720	95.41	-2.87	92.54	110.8	-18.26	peak
5725	110.36	-2.14	108.22	122.2	-13.98	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.76	-1.97	105.79	122.2	-16.41	peak
5855	92.81	-2.13	90.68	110.8	-20.12	peak
5875	88.33	-2.65	85.68	105.2	-19.52	peak
5925	53.04	-2.28	50.76	68.2	-17.44	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.19	-1.97	109.22	122.2	-12.98	peak
5855	92.76	-2.13	90.63	110.8	-20.17	peak
5875	87.27	-2.65	84.62	105.2	-20.58	peak
5925	57.04	-2.28	54.76	68.2	-13.44	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	53.19	-2.06	51.13	68.2	-17.07	peak
5700	88.57	-1.96	86.61	105.2	-18.59	peak
5720	94.57	-2.87	91.7	110.8	-19.1	peak
5725	109.26	-2.14	107.12	122.2	-15.08	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.71	-2.06	57.65	68.2	-10.55	peak
5700	90.99	-1.96	89.03	105.2	-16.17	peak
5720	94.67	-2.87	91.8	110.8	-19	peak
5725	110.69	-2.14	108.55	122.2	-13.65	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.07	-1.97	108.1	122.2	-14.1	peak
5855	94.34	-2.13	92.21	110.8	-18.59	peak
5875	91.81	-2.65	89.16	105.2	-16.04	peak
5925	52.27	-2.28	49.99	68.2	-18.21	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.52	-1.97	106.55	122.2	-15.65	peak
5855	91.82	-2.13	89.69	110.8	-21.11	peak
5875	88.77	-2.65	86.12	105.2	-19.08	peak
5925	55.13	-2.28	52.85	68.2	-15.35	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.71	-2.06	56.65	68.2	-11.55	peak
5700	89.47	-1.96	87.51	105.2	-17.69	peak
5720	93.06	-2.87	90.19	110.8	-20.61	peak
5725	110.81	-2.14	108.67	122.2	-13.53	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.73	-2.06	56.67	68.2	-11.53	peak
5700	90.87	-1.96	88.91	105.2	-16.29	peak
5720	95.22	-2.87	92.35	110.8	-18.45	peak
5725	110.12	-2.14	107.98	122.2	-14.22	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.66	-1.97	107.69	122.2	-14.51	peak
5855	93.52	-2.13	91.39	110.8	-19.41	peak
5875	90.05	-2.65	87.4	105.2	-17.8	peak
5925	53.62	-2.28	51.34	68.2	-16.86	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	106.73	-1.97	104.76	122.2	-17.44	peak
5855	96.12	-2.13	93.99	110.8	-16.81	peak
5875	92.01	-2.65	89.36	105.2	-15.84	peak
5925	55.36	-2.28	53.08	68.2	-15.12	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	55.14	-2.06	53.08	68.2	-15.12	peak
5700	88.98	-1.96	87.02	105.2	-18.18	peak
5720	95.79	-2.87	92.92	110.8	-17.88	peak
5725	106.86	-2.14	104.72	122.2	-17.48	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.92	-2.06	55.86	68.2	-12.34	peak
5700	92.23	-1.96	90.27	105.2	-14.93	peak
5720	95.43	-2.87	92.56	110.8	-18.24	peak
5725	110.38	-2.14	108.24	122.2	-13.96	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.44	-1.97	105.47	122.2	-16.73	peak
5855	93.88	-2.13	91.75	110.8	-19.05	peak
5875	87.29	-2.65	84.64	105.2	-20.56	peak
5925	54.46	-2.28	52.18	68.2	-16.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.69	-1.97	109.72	122.2	-12.48	peak
5855	93.45	-2.13	91.32	110.8	-19.48	peak
5875	87.43	-2.65	84.78	105.2	-20.42	peak
5925	54.97	-2.28	52.69	68.2	-15.51	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax80 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	53.85	-2.06	51.79	68.2	-16.41	peak
5700	88.55	-1.96	86.59	105.2	-18.61	peak
5720	93.52	-2.87	90.65	110.8	-20.15	peak
5725	109.18	-2.14	107.04	122.2	-15.16	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.64	-2.06	56.58	68.2	-11.62	peak
5700	90.46	-1.96	88.5	105.2	-16.7	peak
5720	94.61	-2.87	91.74	110.8	-19.06	peak
5725	111.19	-2.14	109.05	122.2	-13.15	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.01	-1.97	106.04	122.2	-16.16	peak
5855	94.93	-2.13	92.8	110.8	-18	peak
5875	93.13	-2.65	90.48	105.2	-14.72	peak
5925	51.62	-2.28	49.34	68.2	-18.86	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.33	-1.97	106.36	122.2	-15.84	peak
5855	93.47	-2.13	91.34	110.8	-19.46	peak
5875	89.78	-2.65	87.13	105.2	-18.07	peak
5925	53.21	-2.28	50.93	68.2	-17.27	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**MIMO**

Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	56.68	-2.06	54.62	68.2	-13.58	
5700	91.33	-1.96	89.37	105.2	-15.83	peak
5720	95.81	-2.87	92.94	110.8	-17.86	peak
5725	112.12	-2.14	109.98	122.2	-12.22	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	62.63	-2.06	60.57	68.2	-7.63	
5700	96.29	-1.96	94.33	105.2	-10.87	peak
5720	97.69	-2.87	94.82	110.8	-15.98	peak
5725	112.36	-2.14	110.22	122.2	-11.98	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.74	-1.97	108.77	122.2	-13.43	peak
5855	95.16	-2.13	93.03	110.8	-17.77	peak
5875	88.41	-2.65	85.76	105.2	-19.44	peak
5925	54.21	-2.28	51.93	68.2	-16.27	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	105.96	-1.97	103.99	122.2	-18.21	peak
5855	94.16	-2.13	92.03	110.8	-18.77	peak
5875	87.43	-2.65	84.78	105.2	-20.42	peak
5925	56.69	-2.28	54.41	68.2	-13.79	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.33	-2.06	54.27	68.2	-13.93	peak
5700	92.96	-1.96	91	105.2	-14.2	peak
5720	95.76	-2.87	92.89	110.8	-17.91	peak
5725	110.53	-2.14	108.39	122.2	-13.81	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.41	-2.06	56.35	68.2	-11.85	peak
5700	95.44	-1.96	93.48	105.2	-11.72	peak
5720	95.31	-2.87	92.44	110.8	-18.36	peak
5725	110.55	-2.14	108.41	122.2	-13.79	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	105.38	-1.97	103.41	122.2	-18.79	peak
5855	92.09	-2.13	89.96	110.8	-20.84	peak
5875	86.94	-2.65	84.29	105.2	-20.91	peak
5925	54.94	-2.28	52.66	68.2	-15.54	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.74	-1.97	105.77	122.2	-16.43	peak
5855	94.44	-2.13	92.31	110.8	-18.49	peak
5875	87.25	-2.65	84.6	105.2	-20.6	peak
5925	52.62	-2.28	50.34	68.2	-17.86	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.75	-2.06	55.69	68.2	-12.51	peak
5700	87.58	-1.96	85.62	105.2	-19.58	peak
5720	94.91	-2.87	92.04	110.8	-18.76	peak
5725	109.34	-2.14	107.2	122.2	-15	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.69	-2.06	56.63	68.2	-11.57	peak
5700	91.28	-1.96	89.32	105.2	-15.88	peak
5720	94.62	-2.87	91.75	110.8	-19.05	peak
5725	109.14	-2.14	107	122.2	-15.2	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.67	-1.97	107.7	122.2	-14.5	peak
5855	94.21	-2.13	92.08	110.8	-18.72	peak
5875	89.55	-2.65	86.9	105.2	-18.3	peak
5925	53.75	-2.28	51.47	68.2	-16.73	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.03	-1.97	109.06	122.2	-13.14	peak
5855	95.38	-2.13	93.25	110.8	-17.55	peak
5875	88.87	-2.65	86.22	105.2	-18.98	peak
5925	55.81	-2.28	53.53	68.2	-14.67	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.42	-2.06	56.36	68.2	-11.84	peak
5700	88.27	-1.96	86.31	105.2	-18.89	peak
5720	93.01	-2.87	90.14	110.8	-20.66	peak
5725	110.54	-2.14	108.4	122.2	-13.8	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.04	-2.06	56.98	68.2	-11.22	peak
5700	87.92	-1.96	85.96	105.2	-19.24	peak
5720	93.84	-2.87	90.97	110.8	-19.83	peak
5725	111.36	-2.14	109.22	122.2	-12.98	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.48	-1.97	109.51	122.2	-12.69	peak
5855	93.02	-2.13	90.89	110.8	-19.91	peak
5875	88.64	-2.65	85.99	105.2	-19.21	peak
5925	53.47	-2.28	51.19	68.2	-17.01	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	112.82	-1.97	110.85	122.2	-11.35	peak
5855	94.06	-2.13	91.93	110.8	-18.87	peak
5875	88.18	-2.65	85.53	105.2	-19.67	peak
5925	59.67	-2.28	57.39	68.2	-10.81	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.75	-2.06	54.69	68.2	-13.51	peak
5700	89.42	-1.96	87.46	105.2	-17.74	peak
5720	96.12	-2.87	93.25	110.8	-17.55	peak
5725	109.78	-2.14	107.64	122.2	-14.56	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.37	-2.06	54.31	68.2	-13.89	peak
5700	92.71	-1.96	90.75	105.2	-14.45	peak
5720	94.25	-2.87	91.38	110.8	-19.42	peak
5725	111.43	-2.14	109.29	122.2	-12.91	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.84	-1.97	107.87	122.2	-14.33	peak
5855	94.53	-2.13	92.4	110.8	-18.4	peak
5875	90.06	-2.65	87.41	105.2	-17.79	peak
5925	50.53	-2.28	48.25	68.2	-19.95	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.48	-1.97	108.51	122.2	-13.69	peak
5855	93.07	-2.13	90.94	110.8	-19.86	peak
5875	88.66	-2.65	86.01	105.2	-19.19	peak
5925	55.01	-2.28	52.73	68.2	-15.47	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.54	-2.06	55.48	68.2	-12.72	peak
5700	88.93	-1.96	86.97	105.2	-18.23	peak
5720	96.13	-2.87	93.26	110.8	-17.54	peak
5725	110.87	-2.14	108.73	122.2	-13.47	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.73	-2.06	56.67	68.2	-11.53	peak
5700	90.67	-1.96	88.71	105.2	-16.49	peak
5720	95.06	-2.87	92.19	110.8	-18.61	peak
5725	109.17	-2.14	107.03	122.2	-15.17	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.21	-1.97	108.24	122.2	-13.96	peak
5855	95.42	-2.13	93.29	110.8	-17.51	peak
5875	88.04	-2.65	85.39	105.2	-19.81	peak
5925	53.19	-2.28	50.91	68.2	-17.29	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.72	-1.97	108.75	122.2	-13.45	peak
5855	95.88	-2.13	93.75	110.8	-17.05	peak
5875	88.92	-2.65	86.27	105.2	-18.93	peak
5925	56.46	-2.28	54.18	68.2	-14.02	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.26	-2.06	55.2	68.2	-13	peak
5700	87.75	-1.96	85.79	105.2	-19.41	peak
5720	96.56	-2.87	93.69	110.8	-17.11	peak
5725	109.68	-2.14	107.54	122.2	-14.66	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.39	-2.06	56.33	68.2	-11.87	peak
5700	90.83	-1.96	88.87	105.2	-16.33	peak
5720	93.11	-2.87	90.24	110.8	-20.56	peak
5725	111.05	-2.14	108.91	122.2	-13.29	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.74	-1.97	109.77	122.2	-12.43	peak
5855	94.57	-2.13	92.44	110.8	-18.36	peak
5875	87.84	-2.65	85.19	105.2	-20.01	peak
5925	54.09	-2.28	51.81	68.2	-16.39	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	113.01	-1.97	111.04	122.2	-11.16	peak
5855	94.08	-2.13	91.95	110.8	-18.85	peak
5875	91.17	-2.65	88.52	105.2	-16.68	peak
5925	60.14	-2.28	57.86	68.2	-10.34	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: 802.11ax80 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	58.41	-2.06	56.35	68.2	-11.85	peak
5700	89.28	-1.96	87.32	105.2	-17.88	peak
5720	96.35	-2.87	93.48	110.8	-17.32	peak
5725	109.76	-2.14	107.62	122.2	-14.58	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.71	-2.06	55.65	68.2	-12.55	peak
5700	93.35	-1.96	91.39	105.2	-13.81	peak
5720	94.48	-2.87	91.61	110.8	-19.19	peak
5725	111.15	-2.14	109.01	122.2	-13.19	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	111.14	-1.97	109.17	122.2	-13.03	peak
5855	95.28	-2.13	93.15	110.8	-17.65	peak
5875	88.79	-2.65	86.14	105.2	-19.06	peak
5925	51.09	-2.28	48.81	68.2	-19.39	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

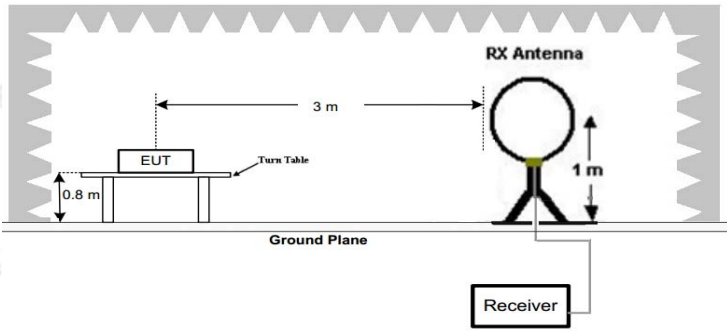
Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.95	-1.97	108.98	122.2	-13.22	peak
5855	95.08	-2.13	92.95	110.8	-17.85	peak
5875	88.84	-2.65	86.19	105.2	-19.01	peak
5925	56.33	-2.28	54.05	68.2	-14.15	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

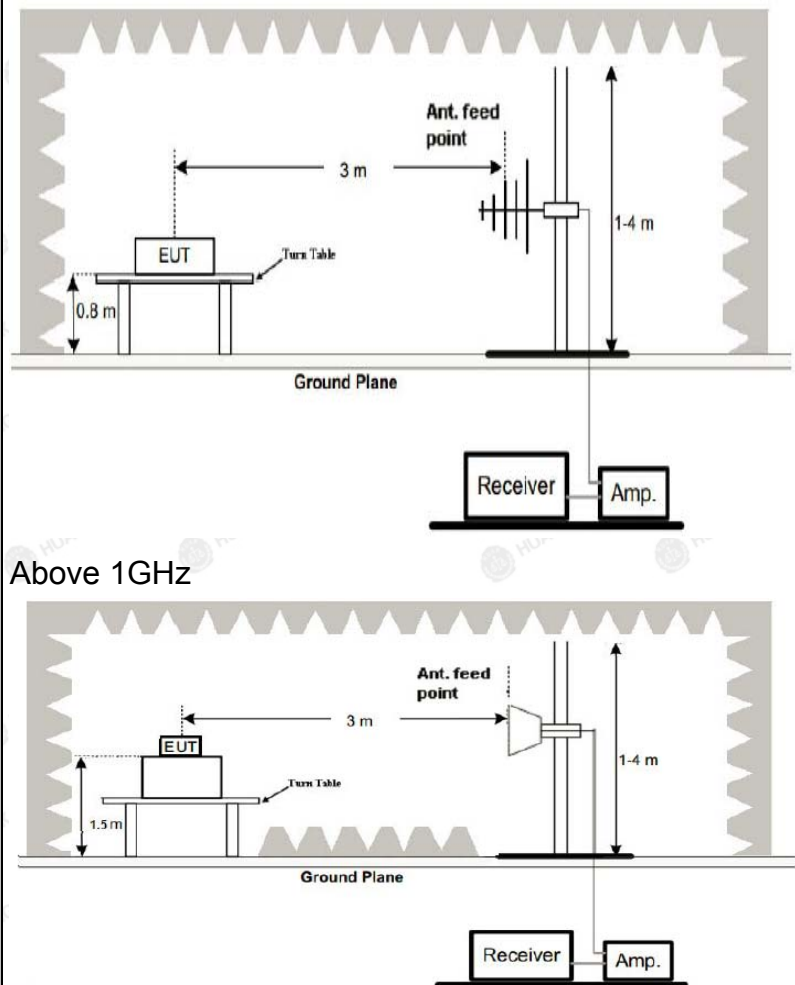


4.7. SPURIOUS EMISSION

4.7.1.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) 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. The limit of frequency below 1GHz and which fall in restricted bands should comply 15.209.				
Test setup:	For radiated emissions below 30MHz  30MHz to 1GHz				

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

**Test Procedure:**

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



	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test results:	PASS



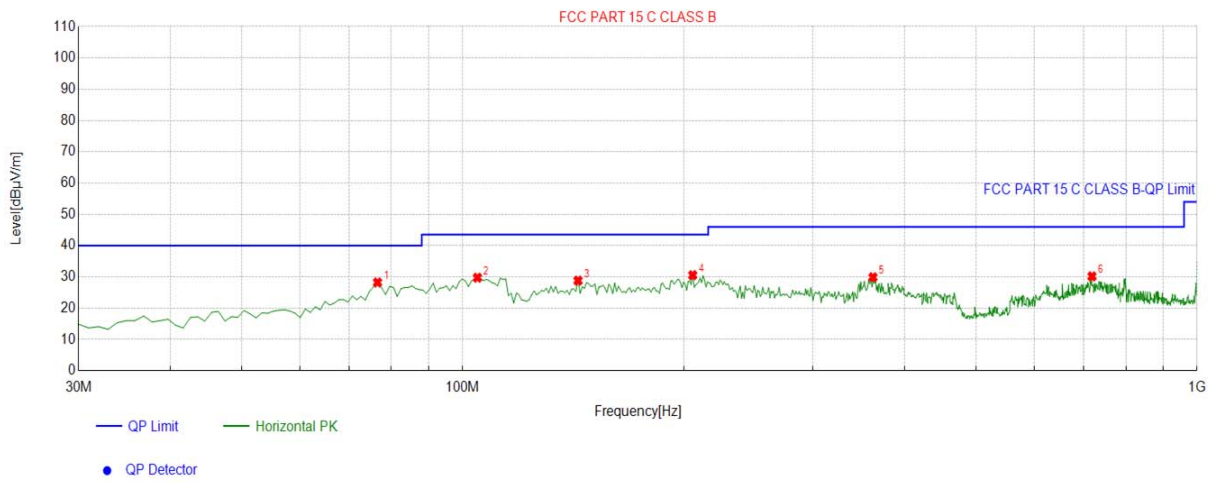
4.7.2. Test Data

test mode: TX 802.11a 5745MHz

All the test modes completed for test. The worst case of Radiated Emission; the test data of this mode was reported.

Below 1GHz

Horizontal



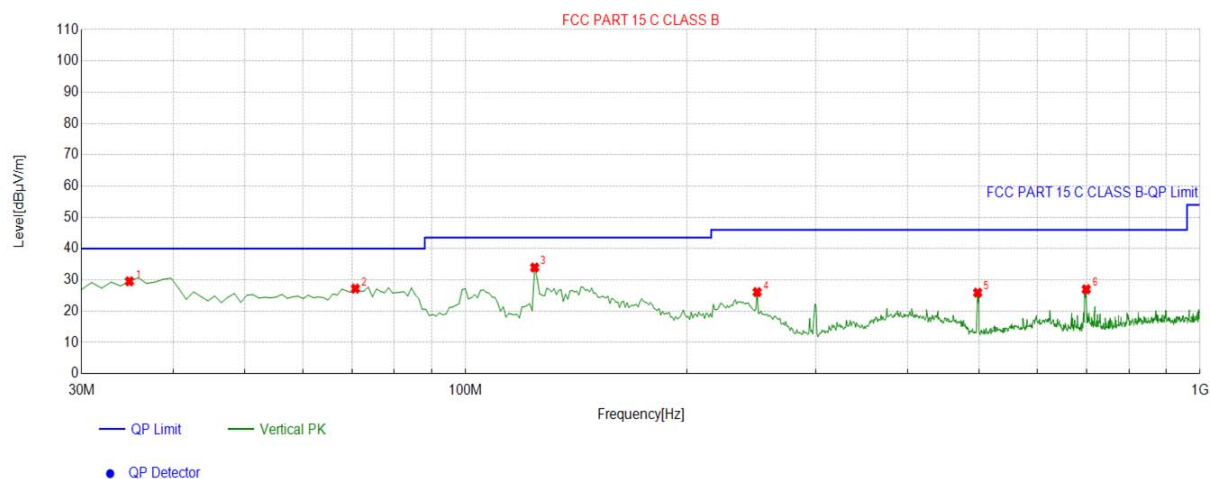
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	76.6066	-18.86	47.08	28.22	40.00	11.78	100	131	Horizontal
2	104.7648	-15.41	45.15	29.74	43.50	13.76	100	141	Horizontal
3	143.6036	-19.09	47.88	28.79	43.50	14.71	100	178	Horizontal
4	205.7457	-14.91	45.45	30.54	43.50	12.96	100	118	Horizontal
5	362.0721	-11.27	41.15	29.88	46.00	16.12	100	291	Horizontal
6	719.3894	-4.72	34.88	30.16	46.00	15.84	100	239	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8549	-16.15	45.68	29.53	40.00	10.47	100	40	Vertical
2	70.7808	-17.81	45.00	27.19	40.00	12.81	100	11	Vertical
3	124.1842	-17.72	51.68	33.96	43.50	9.54	100	348	Vertical
4	249.4394	-13.42	39.49	26.07	46.00	19.93	100	61	Vertical
5	498.0080	-8.35	34.25	25.90	46.00	20.10	100	26	Vertical
6	699.9700	-5.06	32.03	26.97	46.00	19.03	100	156	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

**Above 1GHz****RADIATED EMISSION TEST**

LOW CH 149 (802.11 a Mode with 5.8G)/5745

All modes of operation were investigated and the worst-case of Ant 1 are reported.

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	54.02	-4.59	49.43	68.2	-18.77	peak
11096	50.74	4.21	54.95	74	-19.05	peak
11096	39.08	4.21	43.29	54	-10.71	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	58.95	-4.59	54.36	68.2	-13.84	peak
11096	55.12	4.21	59.33	74	-14.67	peak
11096	36.07	4.21	40.28	54	-13.72	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	59.38	-4.59	54.79	68.2	-13.41	peak
10523	52.01	4.21	56.22	68.2	-11.98	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	56.49	-4.59	51.9	68.2	-16.3	peak
10523	53.56	4.21	57.77	68.2	-10.43	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.11	-4.59	54.52	74	-19.48	peak
2705	48.51	-4.59	43.92	54	-10.08	AVG
11717	54.25	4.84	59.09	74	-14.91	peak
11717	37.72	4.84	42.56	54	-11.44	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	58.14	-4.59	53.55	74	-20.45	peak
2705	45.17	-4.59	40.58	54	-13.42	AVG
11717	50.63	4.84	55.47	74	-18.53	peak
11717	39.69	4.84	44.53	54	-9.47	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5.8G 802.11n20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.13	-4.59	56.54	68.2	-11.66	peak
11096	56.85	4.21	61.06	74	-12.94	peak
11096	39.93	4.21	44.14	54	-9.86	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.78	-4.59	57.19	68.2	-11.01	peak
11096	55.97	4.21	60.18	74	-13.82	peak
11096	36.09	4.21	40.3	54	-13.7	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	64.29	-4.59	59.7	68.2	-8.5	peak
10523	53.33	4.21	57.54	68.2	-10.66	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	58.49	-4.59	53.9	68.2	-14.3	peak
10523	54.58	4.21	58.79	68.2	-9.41	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	60.56	-4.59	55.97	74	-18.03	peak
2705	49.12	-4.59	44.53	54	-9.47	AVG
11717	55.59	4.84	60.43	74	-13.57	peak
11717	38.74	4.84	43.58	54	-10.42	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.36	-4.59	54.77	74	-19.23	peak
2705	48.96	-4.59	44.37	54	-9.63	AVG
11717	53.53	4.84	58.37	74	-15.63	peak
11717	37.09	4.84	41.93	54	-12.07	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

**5.8G 802.11n40 Mode**

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 151**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	64.58	-4.59	59.99	68.2	-8.21	peak
11096	60.31	4.21	64.52	74	-9.48	peak
11096	38.68	4.21	42.89	54	-11.11	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	63.21	-4.59	58.62	68.2	-9.58	peak
11096	56.35	4.21	60.56	74	-13.44	peak
11096	37.47	4.21	41.68	54	-12.32	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	64.18	-4.59	59.59	68.2	-8.61	peak
10523	53.62	4.21	57.83	68.2	-10.37	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	57.76	-4.59	53.17	68.2	-15.03	peak
10523	53.34	4.21	57.55	68.2	-10.65	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

**5.8G 802.11ac20 Mode**

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	60.99	-4.59	56.4	68.2	-11.8	peak
11096	52.82	4.21	57.03	74	-16.97	peak
11096	38.59	4.21	42.8	54	-11.2	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.05	-4.59	56.46	68.2	-11.74	peak
11096	57.62	4.21	61.83	74	-12.17	peak
11096	38.06	4.21	42.27	54	-11.73	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	63.35	-4.59	58.76	68.2	-9.44	peak
10523	52.75	4.21	56.96	68.2	-11.24	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	59.42	-4.59	54.83	68.2	-13.37	peak
10523	53.18	4.21	57.39	68.2	-10.81	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	59.98	-4.59	55.39	74	-18.61	peak
2705	50.56	-4.59	45.97	54	-8.03	AVG
11717	55.78	4.84	60.62	74	-13.38	peak
11717	39.73	4.84	44.57	54	-9.43	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	58.52	-4.59	53.93	74	-20.07	peak
2705	46.55	-4.59	41.96	54	-12.04	AVG
11717	53.31	4.84	58.15	74	-15.85	peak
11717	36.46	4.84	41.3	54	-12.7	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

**5.8G 802.11ac40 Mode**

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 151**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.28	-4.59	57.69	68.2	-10.51	peak
11096	58.51	4.21	62.72	74	-11.28	peak
11096	38.44	4.21	42.65	54	-11.35	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	63.65	-4.59	59.06	68.2	-9.14	peak
11096	57.54	4.21	61.75	74	-12.25	peak
11096	38.87	4.21	43.08	54	-10.92	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



5.8G 802.11ac80 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

CH 155

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	59.19	-4.59	54.6	68.2	-13.6	peak
11096	55.26	4.21	59.47	74	-14.53	peak
11096	37.78	4.21	41.99	54	-12.01	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.25	-4.59	56.66	68.2	-11.54	peak
11096	57.21	4.21	61.42	74	-12.58	peak
11096	39.37	4.21	43.58	54	-10.42	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5.8G 802.11ax20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.43	-4.59	56.84	68.2	-11.36	peak
11096	50.98	4.21	55.19	74	-18.81	peak
11096	37.94	4.21	42.15	54	-11.85	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	62.35	-4.59	57.76	68.2	-10.44	peak
11096	56.44	4.21	60.65	74	-13.35	peak
11096	38.28	4.21	42.49	54	-11.51	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	62.23	-4.59	57.64	68.2	-10.56	peak
10523	53.83	4.21	58.04	68.2	-10.16	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	59.47	-4.59	54.88	68.2	-13.32	peak
10523	53.98	4.21	58.19	68.2	-10.01	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH165

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	60.68	-4.59	56.09	74	-17.91	peak
2705	50.69	-4.59	46.1	54	-7.9	AVG
11717	57.09	4.84	61.93	74	-12.07	peak
11717	39.61	4.84	44.45	54	-9.55	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2705	60.25	-4.59	55.66	74	-18.34	peak
2705	46.39	-4.59	41.8	54	-12.2	AVG
11717	52.51	4.84	57.35	74	-16.65	peak
11717	36.97	4.84	41.81	54	-12.19	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

**5.8G 802.11ax40 Mode**

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 151**Horizontal:**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.55	-4.59	56.96	68.2	-11.24	peak
11096	59.74	4.21	63.95	74	-10.05	peak
11096	37.77	4.21	41.98	54	-12.02	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	64.29	-4.59	59.7	68.2	-8.5	peak
11096	57.67	4.21	61.88	74	-12.12	peak
11096	38.68	4.21	42.89	54	-11.11	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	63.64	-4.59	59.05	68.2	-9.15	peak
10523	52.88	4.21	57.09	68.2	-11.11	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	59.58	-4.59	54.99	68.2	-13.21	peak
10523	51.95	4.21	56.16	68.2	-12.04	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	62.53	-4.59	57.94	68.2	-10.26	peak
10523	54.41	4.21	58.62	68.2	-9.58	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	60.17	-4.59	55.58	68.2	-12.62	peak
10523	51.05	4.21	55.26	68.2	-12.94	peak

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5.8G 802.11ax80 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

CH 155

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	61.07	-4.59	56.48	68.2	-11.72	peak
11096	55.59	4.21	59.8	74	-14.2	peak
11096	37.86	4.21	42.07	54	-11.93	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	60.88	-4.59	56.29	68.2	-11.91	peak
11096	55.41	4.21	59.62	74	-14.38	peak
11096	39.62	4.21	43.83	54	-10.17	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



4.8. FREQUENCY STABILITY MEASUREMENT

4.8.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g)
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	<pre>graph LR; SA[Spectrum Analyzer] --- EUT[EUT]; EUT --- ACDC[AC/DC Power supply]; EUT --- TC[Temperature Chamber]; ACDC --- TC;</pre>
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	N/A

**Test Result as follows:**

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	40.8V	5744.985	-15	5825.009	9
	48V	5745.031	31	5824.954	-46
	55.2V	5744.975	-25	5824.959	-41

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	-30	5744.979	-21	5825.049	49
	-20	5745.012	12	5825.038	38
	-10	5744.958	-42	5824.995	-5
	0	5744.974	-26	5824.971	-29
	10	5744.953	-47	5825.016	16
	20	5745.010	10	5824.989	-11
	30	5744.969	-31	5824.981	-19
	40	5744.991	-9	5824.988	-12
	50	5744.957	-43	5825.041	41



4.9. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

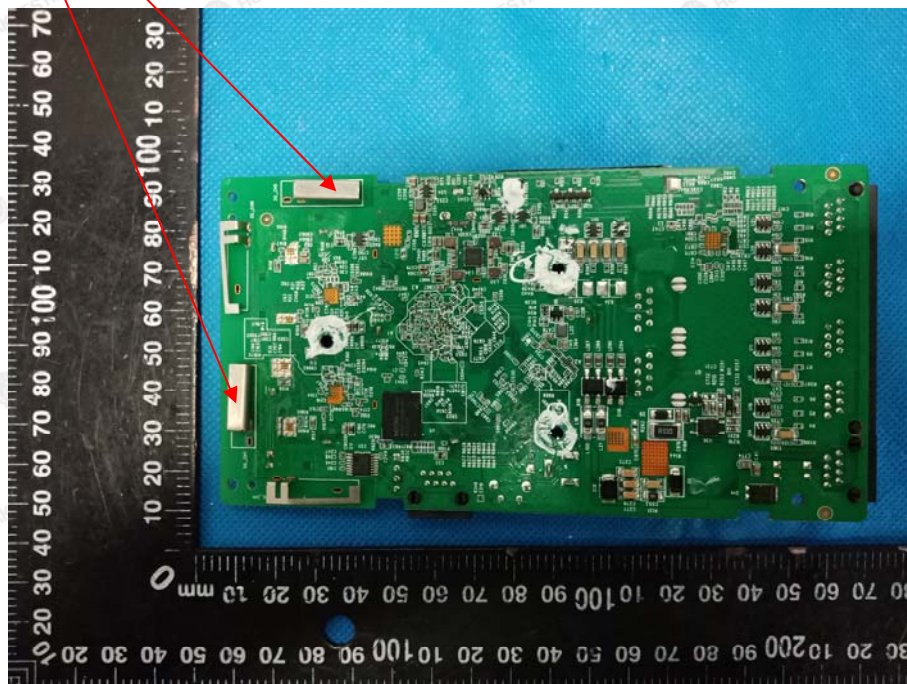
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Internal Antenna, which professional installation is required and cannot be dismantled easily, and the best case gain of the antenna is Antenna port 1:3dBi and Antenna port 2:3dBi.

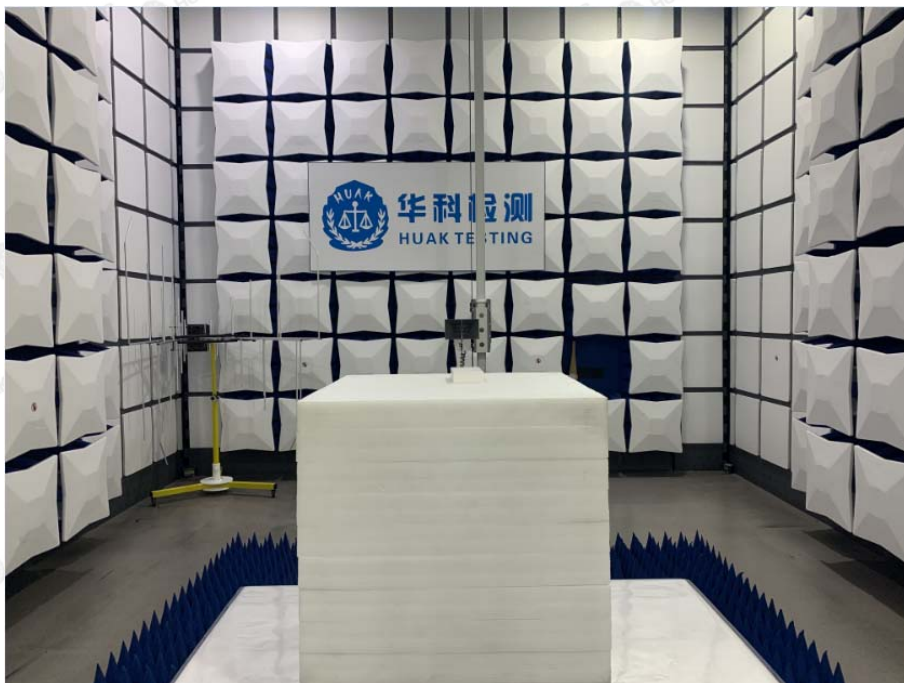
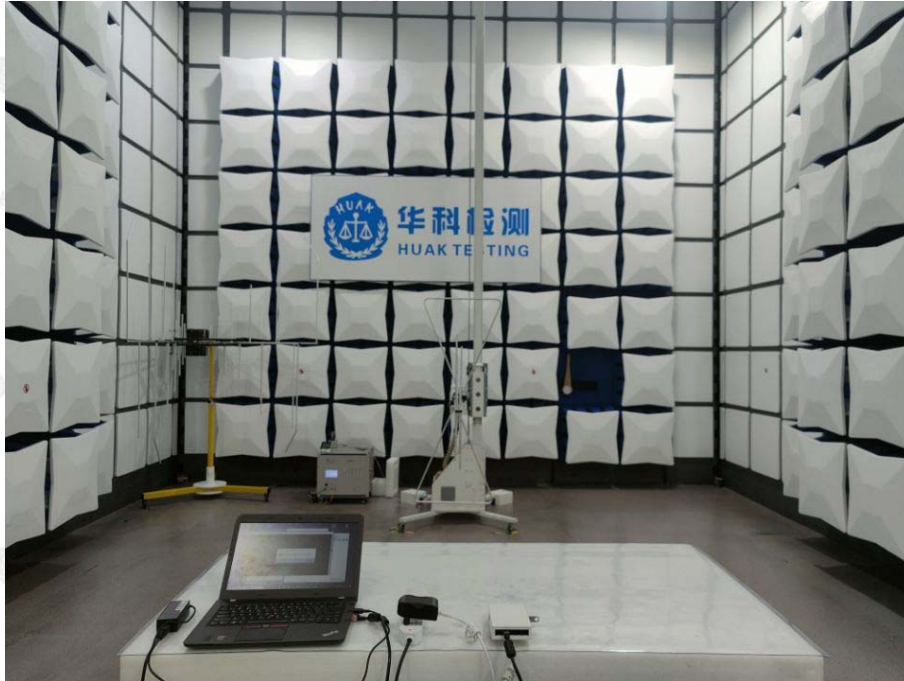
ANTENNA





5. PHOTOGRAPHS OF TEST SETUP

Radiated Emission



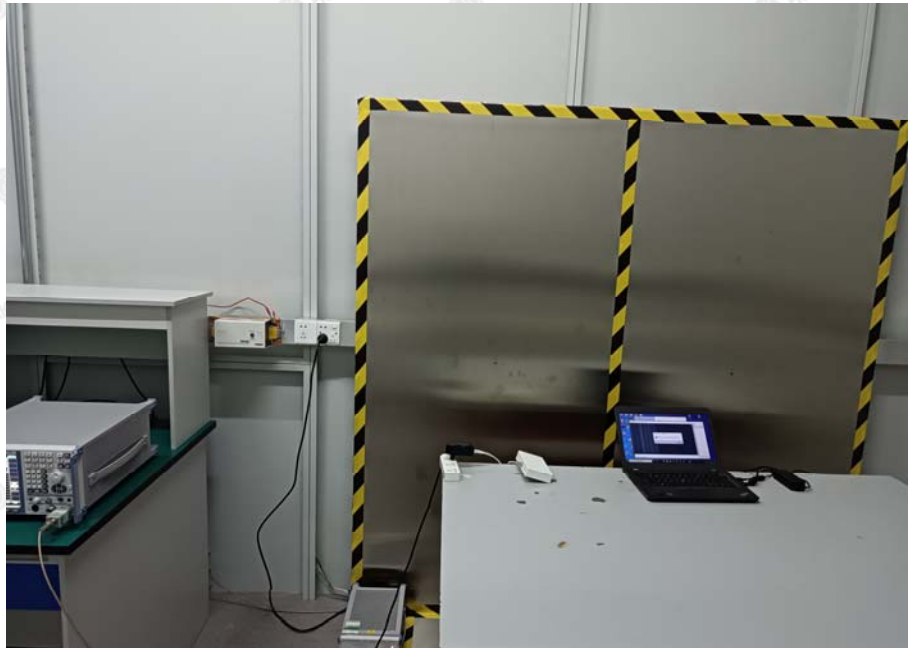
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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Conducted Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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6. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----