

Page 62 of 136

Band IV (5725 – 5850 MHz)



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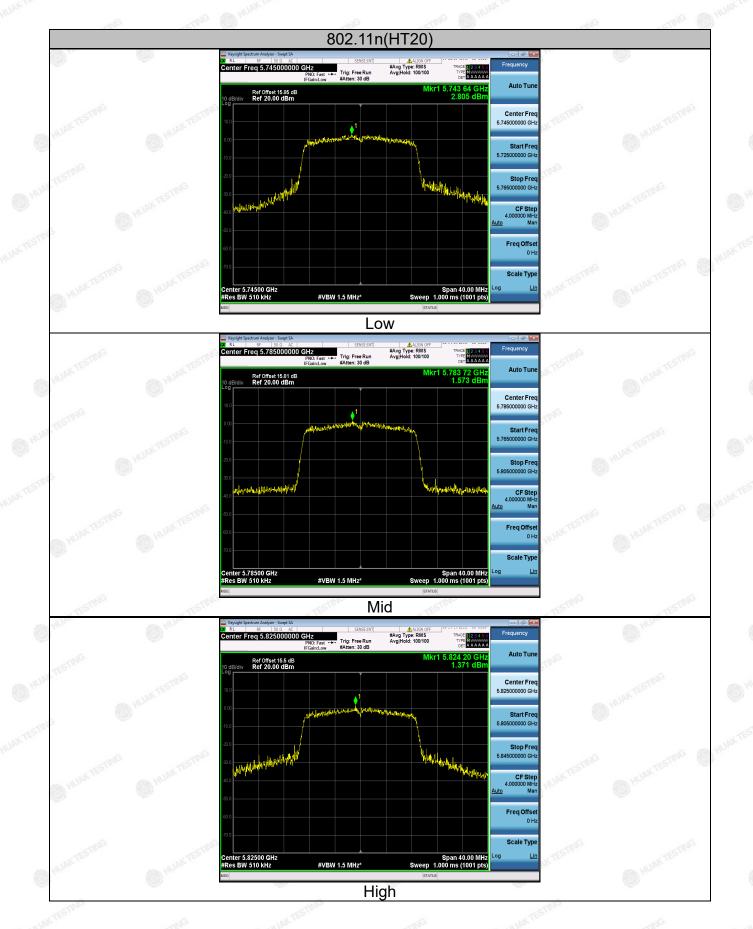
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Page 63 of 136

Report No.: HK2502140540-6E

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Page 64 of 136

Report No.: HK2502140540-6E



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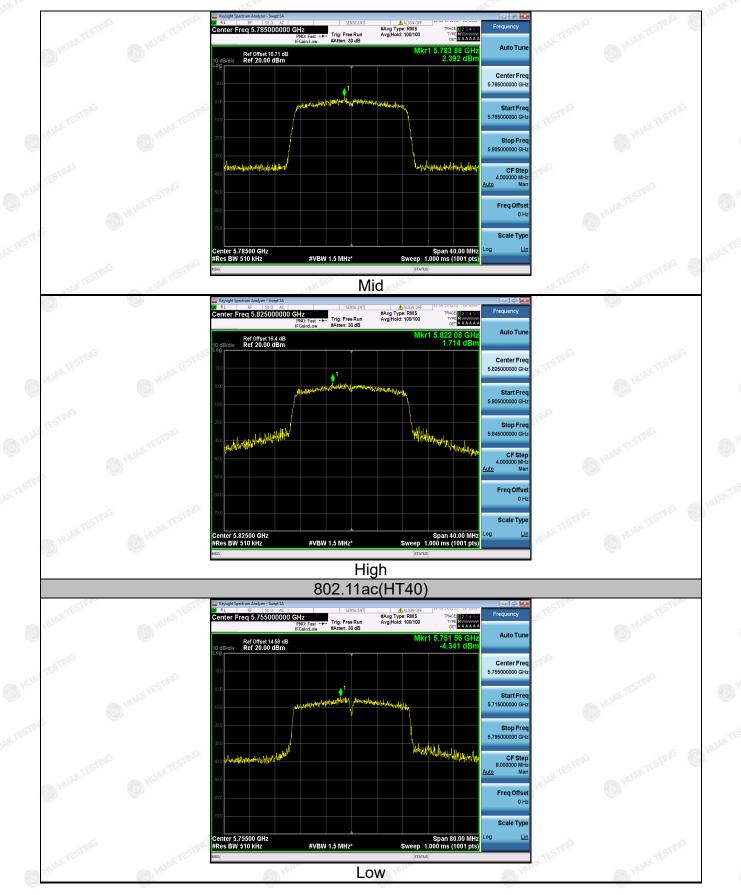
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Page 65 of 136

Report No.: HK2502140540-6E

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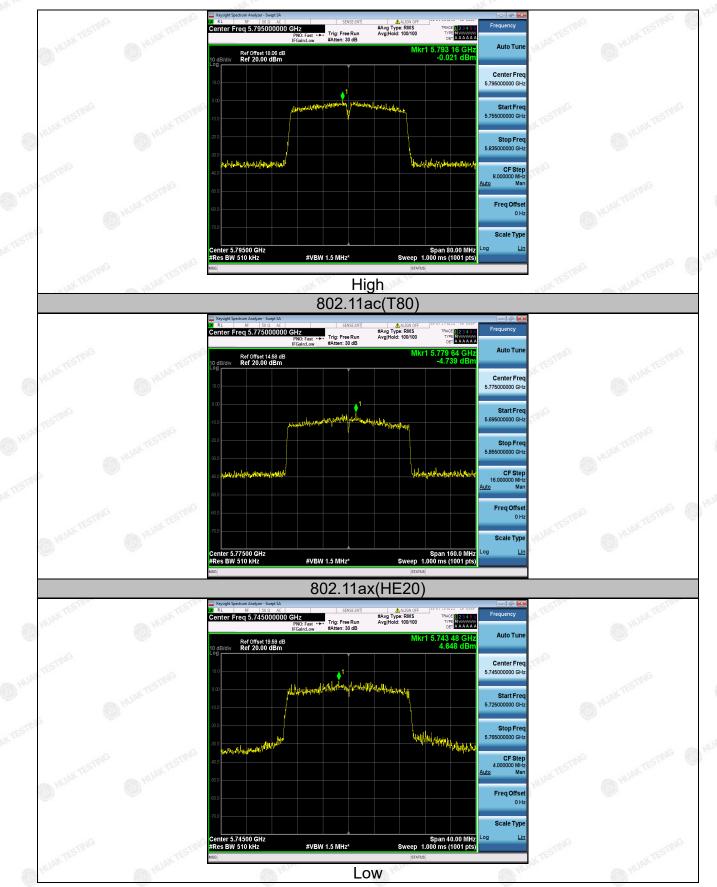
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Page 66 of 136

Report No.: HK2502140540-6E



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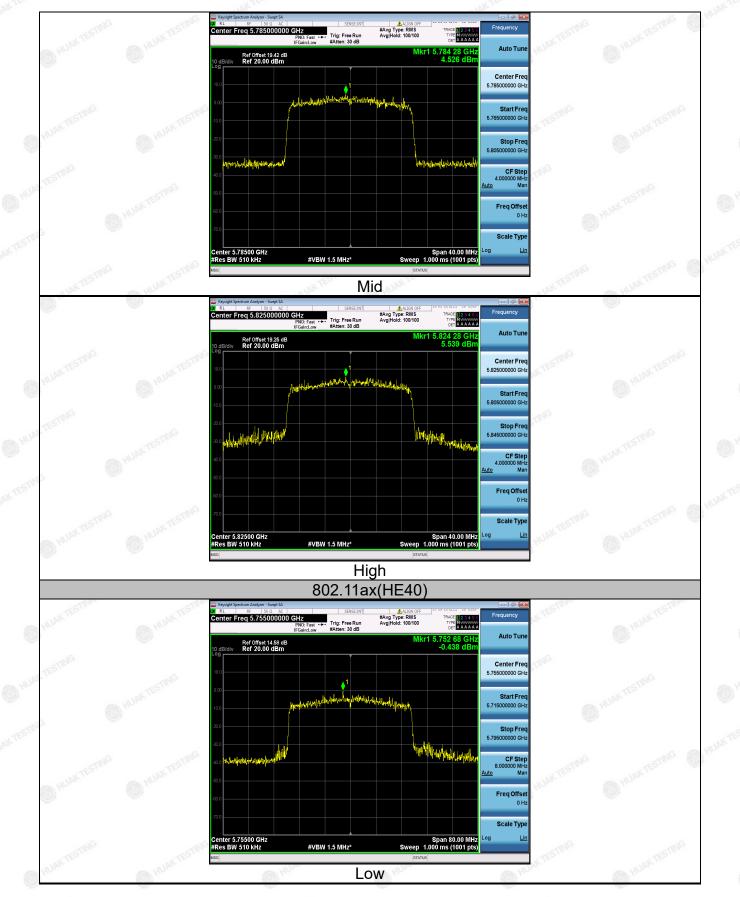
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Page 67 of 136

Report No.: HK2502140540-6E

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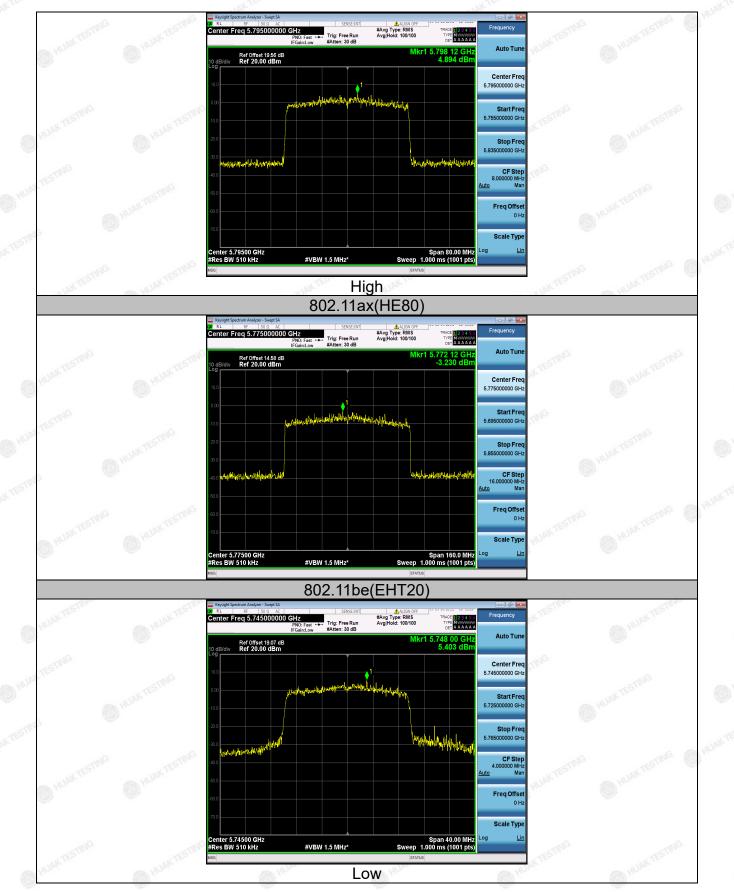
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Page 68 of 136

Report No.: HK2502140540-6E



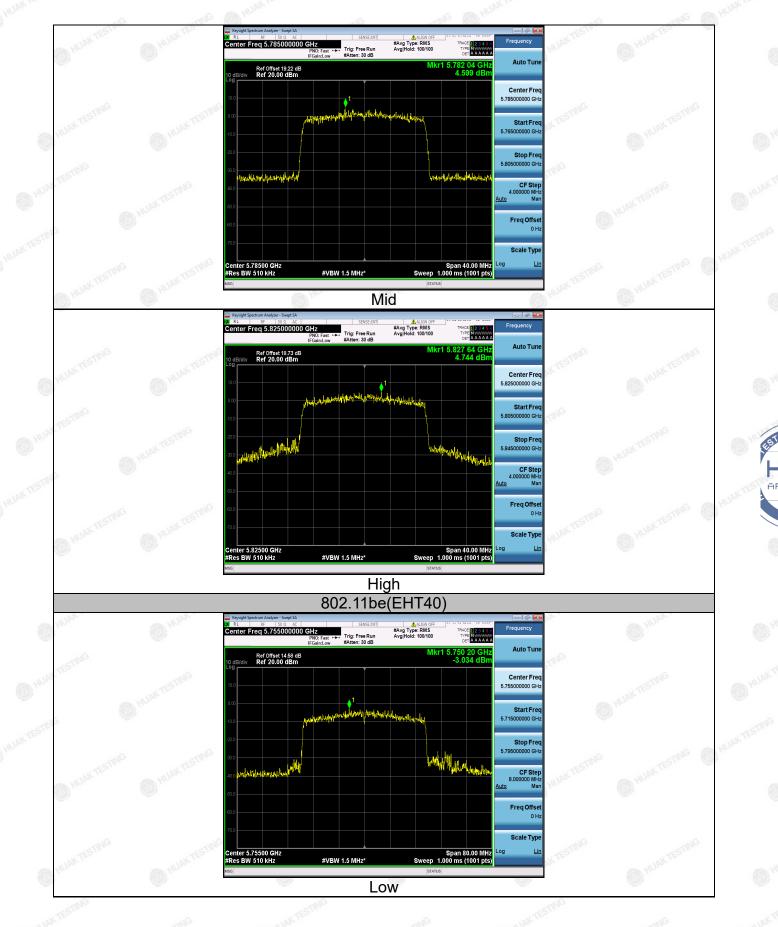
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Page 69 of 136

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Page 70 of 136

Report No.: HK2502140540-6E

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For MIMO antenna port 1+antenna port 2

Mode	Test Channel	Power Density (dBm)	Limit (dBm)	Result	
802.11n(HT20)	CH149	4.91	30	PASS	
802.11n(HT20)	CH157	4.28	30	PASS	
802.11n(HT20)	CH161	4.51	30	PASS	
802.11n(HT40)	CH151	-1.83	30	PASS	
802.11n(HT40)	CH159	-0.18	30	PASS	
802.11ac(HT20)	CH149	7.18	30	PASS	
802.11ac(HT20)	CH157	7.14	30	PASS	
802.11ac(HT20)	CH161	6.85	30	PASS	
802.11ac(HT40)	CH151	2.69	30	PASS	
802.11ac(HT40)	CH159	4.82	30	PASS	
802.11ac(HT80)	CH155	0.86	30	PASS	
802.11ax(HE20)	CH149	7.88	30	PASS	
802.11ax(HE20)	CH157	7.36	30	PASS	
802.11ax(HE20)	CH161	8.67	30	PASS	
802.11ax(HE40)	CH151	1.93	30	PASS	
802.11ax(HE40)	CH159	7.12	30	PASS	
802.11ax(HE80)	CH155	-1.48	30	PASS	
802.11be(EHT20)	CH149	8.21	30	PASS	
802.11be(EHT20)	CH157	7.61	30	PASS	
802.11be(EHT20)	CH165	7.61	30	PASS	
802.11be(EHT40)	CH151	-0.24	··· 0 ···· 30	PASS	
802.11be(EHT40)	CH159	3.88	30	PASS	
802.11be(EHT80)	CH155	-2.10	30	PASS	

Note:

1. According to KDB 662911, Result power = $10\log(10^{(ant1/10}+10^{(ant2/10)}))$.

2. Result unit: W, The end result is converted to units of dBm.

Limit=30dBm-(direction gain-6dBi)=30dBm

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

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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 edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at 5 MHz above or below the band edge. The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.
Test Setup:	Ant. feed point
Test Mode:	Transmitting mode with modulation
Test Procedure:	 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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.

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 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.
PASS

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4.6.2 Test Instruments

Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025			
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025			
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 20, 2024	Feb. 19, 2025			
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025			
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025			
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025			
EMI Test Receiver Rohde & Schwarz		ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025			
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026			
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026			
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026			
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A			
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A			

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Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026			
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	Feb. 18, 2026			
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	Feb. 18, 2026			
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	Feb. 18, 2026			
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	Feb. 18, 2026			
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	Feb. 18, 2026			
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	Feb. 18, 2026			
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026			
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026			
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026			
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A			
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A			

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Page 76 of 136

4.6.3 Test Data

All modes of operation were investigated and the worst-case emissions of ANT.2 are reported.

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

Horizontal:	
DOUZODIAL	

10043202			
mission Level	Limits	Margin	
(dBµV/m)	(dBµV/m)	(dB)	Detector Type
49.56	68.2	-18.64	peak
84.68	105.2	-20.52	peak
92.55	110.8	-18.25	peak
105.47	122.2	-16.73	peak
			105.47 122.2 -16.73 nuator – Preamplifier: Level = Reading + Fac

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

Vertical::	HUAKTEST	HUAKTEST	HUAK TEST		HUAKTEST	HUAKTEST
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	57.31	-2.06	55.25	68.2	-12.95	peak
5700	85.84	-1.96	83.88	105.2	-21.32	peak
5720	93.11	-2.87	90.24	110.8	-20.56	peak
5725	109.92	-2.14	107.78	122.2	-14.42	peak

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

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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)	Detector Type
5850	108.07	-1.97	106.1	122.2	-16.1	peak
5855	92.99	-2.13	90.86	110.8	-19.94	peak
5875	84.79	-2.65	82.14	105.2	-23.06	peak
5925	50.01	-2.28	47.73	68.2	-20.47	peak

Vertical:	
Frequency	Meter

Meter Reading	Factor	Emission Level	🥟 Limits	Margin	Detector Ture
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
101.67	-1.97	99.7	122.2	-22.5	peak
91.95	-2.13	89.82	110.8	-20.98	peak
88.01	-2.65	85.36	105.2	-19.84	peak
52.12	-2.28	49.84	68.2	-18.36	peak
	(dBµV) 101.67 91.95 88.01	(dBµV) (dB) 101.67 -1.97 91.95 -2.13 88.01 -2.65	(dBµV) (dB) (dBµV/m) 101.67 -1.97 99.7 91.95 -2.13 89.82 88.01 -2.65 85.36	(dBµV) (dB) (dBµV/m) (dBµV/m) 101.67 -1.97 99.7 122.2 91.95 -2.13 89.82 110.8 88.01 -2.65 85.36 105.2	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 101.67 -1.97 99.7 122.2 -22.5 91.95 -2.13 89.82 110.8 -20.98 88.01 -2.65 85.36 105.2 -19.84

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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

Frequency	Meter Reading	Factor	Emission Level	🥙 Limits	Margin	Detector Ture
(MHz)	dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
o 5650	53.99	-2.06	51.93	68.2	-16.27	peak
5700	87.72	-1.96	85.76	105.2	-19.44	peak
5720	92.97	-2.87	90.1	110.8	-20.7	peak
5725	113.03	-2.14	110.89	122.2	-11.31	peak

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
5650	57.24	-2.06	55.18	68.2	-13.02	peak	
5700	95.05	-1.96	93.09	105.2	-12.11	peak	
5720	93.23	-2.87	90.36	110.8	-20.44	peak	
5725	110.75	-2.14	108.61	122.2	-13.59	peak	

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

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FICATION



Operation Mode: TX CH High with 5.8G

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turk
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	107.41	-1.97	105.44	122.2	-16.76	peak
5855	90.69	-2.13	88.56	110.8	-22.24	peak
5875	95.34	-2.65	92.69	105.2	-12.51	peak
5925	51.32	-2.28	49.04	68.2	-19.16	peak

Frequency	Meter Reading	Factor	Emission Level	💖 Limits	Margin	– Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
[©] 5850	105.13	-1.97	103.16	122.2	-19.04	peak
5855	92.55	-2.13	90.42	110.8	-20.38	peak
5875	87.76	-2.65	85.11	105.2	-20.09	peak
5925	56.93	-2.28	54.65	68.2	-13.55	peak

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

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

al:	~			~	
Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
58.36	-2.06	56.3	68.2	-11.9	peak
89.66	-1.96	87.7	105.2	-17.5	peak
92.71	-2.87	89.84	110.8	-20.96	peak
110.52	-2.14	108.38	122.2	-13.82	peak
	Meter Reading (dBµV) 58.36 89.66 92.71	Meter Reading Factor (dBµV) (dB) 58.36 -2.06 89.66 -1.96 92.71 -2.87	Meter Reading Factor Emission Level (dBµV) (dB) (dBµV/m) 58.36 -2.06 56.3 89.66 -1.96 87.7 92.71 -2.87 89.84	Meter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 58.36 -2.06 56.3 68.2 89.66 -1.96 87.7 105.2 92.71 -2.87 89.84 110.8	Meter Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 58.36 -2.06 56.3 68.2 -11.9 89.66 -1.96 87.7 105.2 -17.5 92.71 -2.87 89.84 110.8 -20.96

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

Vertical:		9			w.	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	58.33	-2.06	56.27	68.2	-11.93	🤍 peak
5700	89.66	-1.96	87.7	105.2	-17.5	peak
5720	95.55	-2.87	92.68	110.8	-18.12	peak
5725	110.03	-2.14	107.89	122.2	-14.31	peak

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

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FIF



Operation Mode: TX CH High with 5.8G

Horizontal:		~			~	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
5850	104.83	-1.97	102.86	122.2	-19.34	peak
5855	92.95	-2.13	90.82	110.8	-19.98	peak
5875	86.82	-2.65	84.17	105.2	-21.03	peak
5925	53.08	-2.28	50.8	68.2	-17.4	peak

Frequency	Meter Reading	Factor	Emission Level	No Limits	Margin	– Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
³ 5850	104.58	-1.97	102.61	122.2	-19.59	peak
5855	91.77	-2.13	89.64	110.8	-21.16	peak
5875	89.42	-2.65	86.77	105.2	-18.43	peak
5925	52.69	-2.28	50.41	68.2	-17.79	peak

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

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

Horizonta	al:	~			~		
Frequency	Meter Reading	Factor Emission Level Limits Marg	Factor Emission Level Limits M	Factor	Factor Emission Level Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type 	
5650	55.09	-2.06	53.03	68.2	-15.17	peak	
5700	87.33	-1.96	85.37	105.2	-19.83	peak	
5720	93.59	-2.87	90.72	110.8	-20.08	peak	
5725	105.66	-2.14	103.52	122.2	-18.68	peak	

Vertical	-					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	— Detector Type
5650	56.08	-2.06	54.02	68.2	-14.18	peak
5700	91.42	-1.96	89.46	105.2	-15.74	peak
5720	93.68	-2.87	90.81	110.8	-19.99	peak
5725	108.99	-2.14	106.85	122.2	-15.35	peak

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

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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)	Detector Type
5850	109.87	-1.97	107.9	122.2	-14.3	peak
5855	92.92	-2.13	90.79	110.8	-20.01	peak
5875	86.36	-2.65	83.71	105.2	-21.49	peak
5925	53.21	-2.28	50.93	68.2	-17.27	peak

Frequency	Meter Reading	Factor	Emission Level	🤌 Limits	Margin	D. L. L. TSTING	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type	
³ 5850	108.36	-1.97	106.39	122.2	-15.81	peak	
5855	91.68	-2.13	89.55	110.8	-21.25	peak	
5875	85.68	-2.65	83.03	105.2	-22.17	peak	
5925	54.04	-2.28	51.76	68.2	-16.44	peak	

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

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

Horizonta	al:				~	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Turo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
5650	56.44	-2.06	54.38	68.2	-13.82	o peak
5700	86.11	-1.96	84.15	105.2	-21.05	peak
5720	92.24	-2.87	89.37	110.8	-21.43	peak
5725	107.05	-2.14	104.91	122.2	-17.29	peak

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

Meter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
54.64	-2.06	52.58	68.2	-15.62	peak
87.17	-1.96	85.21	105.2	-19.99	peak
93.42	-2.87	90.55	110.8	-20.25	peak
107.48	-2.14	105.34	122.2	-16.86	peak
	54.64 87.17 93.42	54.64 -2.06 87.17 -1.96 93.42 -2.87	54.64 -2.06 52.58 87.17 -1.96 85.21 93.42 -2.87 90.55	54.64 -2.06 52.58 68.2 87.17 -1.96 85.21 105.2 93.42 -2.87 90.55 110.8	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 54.64 -2.06 52.58 68.2 -15.62 87.17 -1.96 85.21 105.2 -19.99 93.42 -2.87 90.55 110.8 -20.25

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

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Operation Mode: TX CH High with 5.8G

Horizontal:		-				-
Frequency	Meter Reading	Meter Reading Factor Emission Level	Limits	Margin	Dotootor Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
5850	111.22	-1.97	109.25	122.2	-12.95	peak
5855	89.92	-2.13	87.79	110.8	-23.01	peak
5875	85.81	-2.65	83.16	105.2	-22.04	peak
5925	54.85	-2.28	52.57	68.2	-15.63	peak

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	110.11	-1.97	108.14	122.2	-14.06	peak
5855	91.22	-2.13	89.09	110.8	-21.71	peak
5875	86.51	-2.65	83.86	105.2	-21.34	peak
5925	56.36	-2.28	54.08	68.2	-14.12	peak

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

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

Horizont	al:					-
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Turk
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
5650	55.72	-2.06	53.66	68.2	-14.54	🤍 peak
5700	87.33	-1.96	85.37	105.2	-19.83	peak
5720	94.02	-2.87	91.15	110.8	-19.65	peak
5725	106.85	-2.14	104.71	122.2	-17.49	peak

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

Vertical	:	<i><i>w</i></i>			~	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
5650	57.09	-2.06	55.03	68.2	-13.17	peak
5700	88.27	-1.96	86.31	105.2	-18.89	peak
5720	92.91	-2.87	90.04	110.8	-20.76	peak
5725	108.76	-2.14	106.62	122.2	-15.58	peak

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

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Level-Limit.

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)	 Detector Type
5850	113.59	-1.97	111.62	122.2	-10.58	peak
5855	92.07	-2.13	89.94	110.8	-20.86	peak
5875	87.71	-2.65	85.06	105.2	-20.14	peak
5925	54.08	-2.28	51.8	68.2	-16.4	peak

Vertical						
Frequency	Meter Reading	Factor	Emission Level	💖 Limits	Margin	– Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
ses 5850	108.44	-1.97	106.47	122.2	-15.73	peak
5855	92.93	-2.13	90.8	110.8	-20	peak
5875	87.14	-2.65	84.49	105.2	-20.71	peak
5925	54.17	-2.28	51.89	68.2	-16.31	peak
1	. (PS				4.4	alles

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

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

al:				~	
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
56.13	-2.06	54.07	68.2	-14.13	peak
87.37	-1.96	85.41	105.2	-19.79	peak
93.82	-2.87	90.95	110.8	-19.85	peak
110.43	-2.14	108.29	122.2	-13.91	peak
	(dBµV) 56.13 87.37 93.82	Meter Reading Factor (dBµV) (dB) 56.13 -2.06 87.37 -1.96 93.82 -2.87	Meter Reading Factor Emission Level (dBμV) (dB) (dBμV/m) 56.13 -2.06 54.07 87.37 -1.96 85.41 93.82 -2.87 90.95	Meter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 56.13 -2.06 54.07 68.2 87.37 -1.96 85.41 105.2 93.82 -2.87 90.95 110.8	Meter Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 56.13 -2.06 54.07 68.2 -14.13 87.37 -1.96 85.41 105.2 -19.79 93.82 -2.87 90.95 110.8 -19.85

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

Vertical:		Ŵ			Ŵ	<u> </u>
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
5650	59.02	-2.06	56.96	68.2	-11.24	peak
5700	90.63	-1.96	88.67	105.2	-16.53	peak
5720	91.81	-2.87	88.94	110.8	-21.86	peak
5725	109.26	-2.14	107.12	122.2	-15.08	peak
Remark: Factor	= Cable loss + Ante	enna factor + A	Attenuator – Pream	plifier; Level =	Reading + Fac	tor; Margin =

_evel-Limit.

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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)	- Detector Type
5850	109.13	-1.97	107.16	122.2	-15.04	peak
5855	92.54	-2.13	90.41	110.8	-20.39	peak
5875	85.75	-2.65	83.1	105.2	-22.1	peak
5925	54.26	-2.28	51.98	68.2	-16.22	peak

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
[©] 5850	110.62	-1.97	108.65	122.2	-13.55	peak
5855	92.21	-2.13	90.08	110.8	-20.72	peak
5875	86.23	-2.65	83.58	105.2	-21.62	peak
5925	53.02	-2.28	50.74	68.2	-17.46	peak

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

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

Horizont	al:	<i>w</i>			~	
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	85.65	-1.96	83.69	105.2	-21.51	peak
5720	94.57	-2.87	91.7	110.8	-19.1	peak
5725	107.46	-2.14	105.32	122.2	-16.88	peak
Remark: Factor	= Cable loss + Ant	enna factor +	· Attenuator – Pream	plifier; Level =	Reading + Fac	ctor; Margin =

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5650	54.91	-2.06	52.85	68.2	-15.35	peak
5700	87.74	-1.96	85.78	105.2	-19.42	peak
5720	92.42	-2.87	89.55	110.8	-21.25	peak
5725	109.07	-2.14	106.93	122.2	-15.27	peak

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

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Operation Mode: TX CH High with 5.8G

Horizontal:		~				
Frequency	Meter Reading	Factor Emission Level	Limits	Margin	Detector Ture	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
5850	109.13	-1.97	107.16	122.2	-15.04	peak
5855	93.51	-2.13	91.38	110.8	-19.42	peak
5875	88.42	-2.65	85.77	105.2	-19.43	peak
5925	55.38	-2.28	53.1	68.2	-15.1	peak

Vertical:						
Frequency	Meter Reading	Factor	Emission Level	🤌 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	112.52	-1.97	110.55	122.2	-11.65	peak
5855	93.58	-2.13	91.45	110.8	-19.35	peak
5875	87.16	-2.65	84.51	105.2	-20.69	peak
5925	59.27	-2.28	56.99	68.2	-11.21	peak
1700		175			175	

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

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

Horizonta	al:	<u> </u>			-	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
5650	57.67	-2.06	55.61	68.2	-12.59	peak
5700	88.75	-1.96	86.79	105.2	-18.41	peak
5720	92.48	-2.87	89.61	110.8	-21.19	peak
5725	109.71	-2.14	107.57	122.2	-14.63	peak

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

Vertical:		÷			~	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	58.62	-2.06	56.56	68.2	-11.64	peak
5700	95.09	-1.96	93.13	105.2	-12.07	peak
5720	95.13	-2.87	92.26	110.8	-18.54	peak
5725	109.92	-2.14	107.78	122.2	-14.42	peak

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

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Operation Mode: TX CH High with 5.8G

Horizontal:						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Tyre
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5850	107.44	-1.97	105.47	122.2	-16.73	peak
5855	91.65	-2.13	89.52	110.8	-21.28	peak
5875	87.64	-2.65	84.99	105.2	-20.21	peak
5925	50.12	-2.28	47.84	68.2	-20.36	peak

Frequency	Meter Reading	Factor	Emission Level	🞺 Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5850	109.46	-1.97	107.49	122.2	-14.71	peak
5855	92.71	-2.13	90.58	110.8	-20.22	peak
5875	89.28	-2.65	86.63	105.2	-18.57	peak
5925	55.88	-2.28	53.6	68.2	-14.6	peak

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

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Operation Mode: 802.11be20 Mode with 5.8G TX CH Low

al:					
Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
55.42	-2.06	53.36	68.2	-14.84	peak
87.92	-1.96	85.96	105.2	-19.24	peak
93.57	-2.87	90.7	110.8	-20.1	peak
110.61	-2.14	108.47	122.2	-13.73	peak
	Meter Reading (dBµV) 55.42 87.92 93.57	Meter Reading Factor (dBµV) (dB) 55.42 -2.06 87.92 -1.96 93.57 -2.87	Meter Reading Factor Emission Level (dBµV) (dB) (dBµV/m) 55.42 -2.06 53.36 87.92 -1.96 85.96 93.57 -2.87 90.7	Meter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 55.42 -2.06 53.36 68.2 87.92 -1.96 85.96 105.2 93.57 -2.87 90.7 110.8	Meter Reading Factor Emission Level Limits Margin (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 55.42 -2.06 53.36 68.2 -14.84 87.92 -1.96 85.96 105.2 -19.24 93.57 -2.87 90.7 110.8 -20.1

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

Vertical:		w.			Ŷ	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
5650	57.92	-2.06	55.86	68.2	-12.34	peak
5700	91.13	-1.96	89.17	105.2	-16.03	peak
5720	92.51	-2.87	89.64	110.8	-21.16	peak
5725	109.02	-2.14	106.88	122.2	-15.32	peak
Remark: Factor	= Cable loss + Ante	enna factor + A	ttenuator – Pream	plifier: Level =	Reading + Fac	tor: Margin =

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Ma Level-Limit.



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Operation Mode: TX CH High with 5.8G

Horizontal:	· · ·	-				
Frequency	Meter Reading (dBµV)	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)		(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5850	108.03	-1.97	106.06	122.2	-16.14	peak
5855	93.08	-2.13	90.95	110.8	-19.85	peak
5875	87.44	-2.65	84.79	105.2	-20.41	peak
5925	55.39	-2.28	53.11	68.2	-15.09	peak

Frequency	Meter Reading	g Factor Emission Level Limits Margin	Emission Level Limits Mar	Detector		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
^S 5850	108.52	-1.97	106.55	122.2	-15.65	peak
5855	91.16	-2.13	89.03	110.8	-21.77	peak
5875	87.53	-2.65	84.88	105.2	-20.32	peak
5925	52.59	-2.28	50.31	68.2	-17.89	peak

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

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Operation Mode: 802.11be40 Mode with 5.8G TX CH Low

Horizont	al:	<i>w</i>					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
5650	55.48	-2.06	53.42	68.2	-14.78	🤍 peak	
5700	86.56	-1.96	84.6	105.2	-20.6	peak	
5720	93.15	-2.87	90.28	110.8	-20.52	peak	
5725	109.65	-2.14	107.51	122.2	-14.69	peak	
Remark: Factor	= Cable loss + Ant	enna factor +	· Attenuator – Pream	plifier: Level =	Reading + Fag	ctor: Margin =	

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
5650	55.12	-2.06	53.06	68.2	-15.14	peak	
5700	86.48	-1.96	84.52	105.2	-20.68	peak	
5720	93.81	-2.87	90.94	110.8	-19.86	peak	
5725	108.22	-2.14	106.08	122.2	-16.12	peak	

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

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FICATION



Operation Mode: TX CH High with 5.8G

Horizontal:		~				
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
5850	110.18	-1.97	108.21	122.2	-13.99	peak
5855	93.53	-2.13	91.4	110.8	-19.4	peak
5875	87.85	-2.65	85.2	105.2	-20	peak
5925	54.29	-2.28	52.01	68.2	-16.19	peak

Vertical:								
Frequency	Meter Reading	Factor	Emission Level	🤌 Limits	Margin	D. L. L. TSING		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
se 5850	111.69	-1.97	109.72	122.2	-12.48	peak		
5855	94.86	-2.13	92.73	110.8	-18.07	peak		
5875	88.66	-2.65	86.01	105.2	-19.19	peak		
5925	57.62	-2.28	55.34	68.2	-12.86	peak		
. 15-		176			165	AL.		

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

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Operation Mode: 802.11be80 Mode with 5.8G TX CH Low

al:					
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
56.19	-2.06	54.13	68.2	-14.07	peak
89.13	-1.96	87.17	105.2	-18.03	peak
91.95	-2.87	89.08	110.8	-21.72	peak
110.56	-2.14	108.42	122.2	-13.78	peak
	Meter Reading (dBµV) 56.19 89.13 91.95	Meter Reading Factor (dBµV) (dB) 56.19 -2.06 89.13 -1.96 91.95 -2.87	Meter Reading Factor Emission Level (dBμV) (dB) (dBμV/m) 56.19 -2.06 54.13 89.13 -1.96 87.17 91.95 -2.87 89.08	Meter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 56.19 -2.06 54.13 68.2 89.13 -1.96 87.17 105.2 91.95 -2.87 89.08 110.8	Meter Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 56.19 -2.06 54.13 68.2 -14.07 89.13 -1.96 87.17 105.2 -18.03 91.95 -2.87 89.08 110.8 -21.72

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

Vertical	:	Ŷ			-	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turpe
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5650	56.69	-2.06	54.63	68.2	-13.57	peak
5700	93.25	-1.96	91.29	105.2	-13.91	peak
5720	95.15	-2.87	92.28	110.8	-18.52	peak
5725	111.35	-2.14	109.21	122.2	-12.99	peak

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

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АР



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)	Detector Type
5850	109.31	-1.97	107.34	122.2	-14.86	peak
5855	92.31	-2.13	90.18	110.8	-20.62	peak
5875	87.61	-2.65	84.96	105.2	-20.24	peak
5925	52.71	-2.28	50.43	68.2	-17.77	peak

Vertical						
Frequency	Meter Reading	Factor	Emission Level	% Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
o ^{co} 5850	109.04	-1.97	107.07	122.2	-15.13	peak
5855	92.38	-2.13	90.25	110.8	-20.55	peak
5875	89.16	-2.65	86.51	105.2	-18.69	peak
5925	55.44	-2.28	53.16	68.2	-15.04	peak
		. 16			TEST	

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

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4.7 Spurious Emission

4.7.1.1 Test Specification

Fest Requirement:	FCC CFR47	Part 15 Se	ction 15.	407 & 1	5.209 & 15.205				
Fest Method:	KDB 789033	D02 v02r0)1	D HUAN	C HUAN				
Frequency Range:	9kHz to 40G	Hz		STING					
Measurement Distance:	3 m	TESTING	CO HIL	AKTE	TESTING				
Antenna Polarization:	Horizontal &	Vertical		<i>C</i> .	O HUM				
Operation Mode:	Transmitting	Transmitting mode with modulation							
	Frequency 9kHz- 150kHz	Detector	RBW	VBW	Remark				
Receiver Setup:	9KH2- 150KH2 150kHz- 30MHz	Quasi-peak Quasi-peak	200Hz 9kHz	1kHz 30kHz	Quasi-peak Value Quasi-peak Value				
	30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value				
_imit:	an e.i.r.p. of -2 (3) For transm emissions outs an e.i.r.p. of -2 (4) For transm (i) All emission MHz or more a to 10 dBm/MH from 25 MHz a to a level of 15 edge, and from linearly to a lev The limit of free ands should c	27 dBm/MHz itters operati side of the 5. 27 dBm/MHz itters operati s shall be lin above or belo z at 25 MHz above or belo 5.6 dBm/MHz n 5 MHz abov vel of 27 dBn quency belov complies 15.2	ng in the s 47-5.725 f ng in the s nited to a l ow the bar above or ow the bar above or bw the bar at 5 MHz ve or below n/MHz at 1 w 1GHz a 209.	5.47-5.729 GHz band 5.725-5.89 evel of -2 nd edge in below the below the d edge in a bove or w the band the band of nd which	27 dBm/MHz at 7 horeasing linearly band edge, and horeasing linearly below the band d edge increasin				
Гest Setup:	For radiated		below 30		nna)↑				

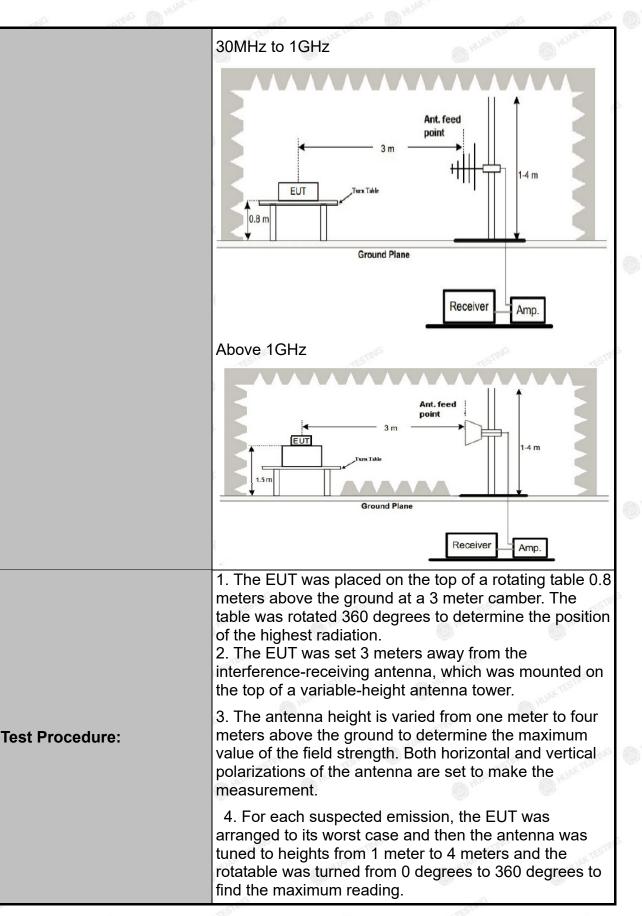
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Page 101 of 136

Report No.: HK2502140540-6E





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	CAN'S AMERICA	
		 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:	1	PASS

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FICATION

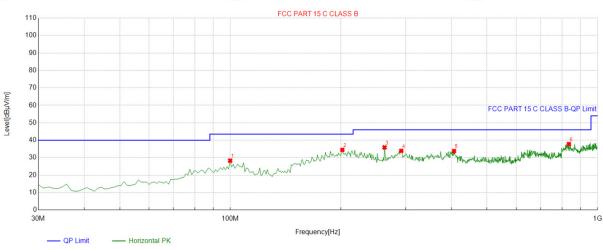
4.7.2 Test Data

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

Below 1GHz



QP Detector



Suspe	ected List								
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	99.90991	-14.70	43.01	28.31	43.50	15.19	100	103	Horizontal
2	201.86186	-15.19	49.66	34.47	43.50	9.03	100	73	Horizontal
3	263.03303	-13.20	49.09	35.89	46.00	10.11	100	188	Horizontal
4	292.16216	-11.99	45.92	33.93	46.00	12.07	100	45	Horizontal
5	406.73673	-9.75	43.59	33.84	46.00	12.16	100	28	Horizontal
6	835.90590	-2.59	40.40	37.81	46.00	8.19	100	8	Horizontal

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

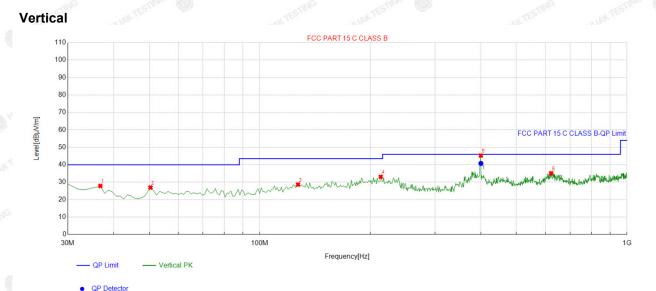
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Page 104 of 136

Report No.: HK2502140540-6E



Suspected List

		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
4	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
5	1	36.796797	-14.57	42.42	27.85	40.00	12.15	100	34	Vertical
	2	50.39039	-13.15	40.10	26.95	40.00	13.05	100	266	Vertical
	3	127.09709	-17.13	45.75	28.62	43.50	14.88	100	133	Vertical
2	4	213.51351	-14.79	47.89	33.10	43.50	10.40	100	165	Vertical
	5	399.93994	-9.84	55.10	45.26	46.00	0.74	100	168	Vertical
	6	621.32132	-5.49	40.62	35.13	46.00	10.87	100	0	Vertical
	Final	Data List								

	Freq.	Factor	QP Reading	QP Value	QP Limit	QP Margin	Height	Angle	Delevite
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	399.9399	-9.84	50.61	40.77	46.00	5.23	100	168	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
ALTESTING ALLESTICS IN	- INKTESTING	TESTING JAK TEST
10	O HUM O H	0 HUM 0 H

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

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-FIF

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

All modes of operation were investigated and the worst-case of Ant. 2 are reported.

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	51.38	-4.59	46.79	68.2	-21.41	peak
11096	47.99	4.21	52.2	74	-21.8	peak
11096	36.75	4.21	40.96	54	-13.04	AVG

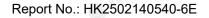
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	57.29	-4.59	52.7	68.2	-15.5	peak
11096	53.91	4.21	58.12	74	-15.88	peak
11096	35.58	4.21	39.79	54	-14.21	AVG

Level-Limit.

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NG

IE.



MID CH157 (802.11	a Mode with	5.8G)/5785
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Horizont	Horizontal:		<i>w</i>			
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
3172	57.92	-4.59	53.33	68.2	-14.87	peak
so ⁶⁶ 10523	50.13	4.21	54.34	68.2	-13.86	peak

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

Vertical:

ventical.	HU.					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	55.07	-4.59	50.48	68.2	-17.72	peak
10523	51.01	4.21	55.22	68.2	-12.98	peak

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

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

Horizonta	al:		w.			
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turpe
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	55.94	-4.59	51.35	74	-22.65	peak
2705	46.33	-4.59	41.74	54	-12.26	AVG
11717	53.18	4.84	58.02	74	-15.98	peak
11717	35.34	4.84	40.18	54	-13.82	AVG

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

Vertical:		۲				<u> </u>
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turce
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	58.59	-4.59	54	74	-20	peak
2705	42.33	-4.59	37.74	54	-16.26	AVG
11717	52.62	4.84	57.46	74	-16.54	peak
11717	37.85	4.84	42.69	54	-11.31	AVG

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

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.

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C al

5.8G 802.11n20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 149

Horiz	ontal:					
Frequence	cy Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	60.96	-4.59	56.37	68.2	-11.83	peak
11096	56.81	4.21	61.02	74	-12.98	peak
11096	38.49	4.21	42.7	54	-11.3	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
3368	62.24	-4.59	57.65	68.2	-10.55	peak
11096	52.77	4.21	56.98	74	-17.02	peak
11096	36.24	4.21	40.45	54	-13.55	AVG

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

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FICATION

MID CH157

al:	1			9	
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
61.15	-4.59	56.56	68.2	-11.64	peak
53.07	4.21	57.28	68.2	-10.92	peak
	Meter Reading (dBµV) 61.15	Meter ReadingFactor(dBµV)(dB)61.15-4.59	Meter ReadingFactorEmission Level(dBµV)(dB)(dBµV/m)61.15-4.5956.56	Meter ReadingFactorEmission LevelLimits(dBµV)(dB)(dBµV/m)(dBµV/m)61.15-4.5956.5668.2	Meter ReadingFactorEmission LevelLimitsMargin(dBµV)(dB)(dBµV/m)(dBµV/m)(dB)61.15-4.5956.5668.2-11.64

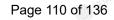
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:	IG HUA			IG HUAK !!		- G
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	53.92	-4.59	49.33	68.2	-18.87	peak
10523	54.38	4.21	58.59	68.2	-9.61	peak

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

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HIGH CH165

UAK TESTING

Horizonta	l:	1 and	× .		w.	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2705	58.11	-4.59	53.52	74	-20.48	peak
2705	46.96	-4.59	42.37	54	-11.63	AVG
11717	54.52	4.84	59.36	74	-14.64	peak
11717	37.44	4.84	42.28	54	-11.72	AVG

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

Vertical:	2	w.	<u> </u>		w.	.
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	59.23	-4.59	54.64	74	-19.36	peak
2705	45.28	-4.59	40.69	54	-13.31	AVG
11717	51.13	4.84	55.97	74	-18.03	peak
11717	35.38	4.84	40.22	54	-13.78	AVG

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

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.

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H

5.8G 802.11n40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 151

	Horizonta	al:					
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
14	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
1	s ^{ano} 3368	61.97	-4.59	57.38	68.2	-10.82	peak
	11096	59.25	4.21	63.46	74	-10.54	peak
1	11096	37.59	4.21	41.8	54	o -12.2 [©]	AVG

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

er Reading	Factor	Emission Level	Limits	Margin	Detector Turce
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
61.82	-4.59	57.23	68.2	-10.97	peak
55.27	4.21	59.48	74	-14.52	peak
37.09	4.21	41.3	54	-12.7	AVG
	61.82 55.27	61.82 -4.59 55.27 4.21	61.82 -4.59 57.23 55.27 4.21 59.48	61.82 -4.59 57.23 68.2 55.27 4.21 59.48 74	61.82 -4.59 57.23 68.2 -10.97 55.27 4.21 59.48 74 -14.52

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

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Page 112 of 136

HIGH CH159

Horizonta	al:	Ŵ			I A A A A A A A A A A A A A A A A A A A	~
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
3172	56.57	-4.59	51.98	68.2	-16.22	peak
s ⁴⁶⁶ 10523	50.45	4.21	54.66	68.2	-13.54	peak
Remark: Factor	= Cable loss + Ant	enna factor + A	Attenuator – Pream	nplifier: Level =	Reading + Fac	tor: Margin =

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

Vertical:

vertieat.	HU.			All areas		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
3172	54.75	-4.59	50.16	68.2	-18.04	peak
10523	52.02	4.21	56.23	68.2	-11.97	peak

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

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.

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5.8G 802.11ac20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 149

_	Horizonta	al:					
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
H	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
~	3368	59.38	-4.59	54.79	68.2	-13.41	peak
ľ	11096	51.23	4.21	55.44	74	-18.56	peak
5	11096	32.26	4.21	36.47	54	• -17.53 [•]	AVG

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

Vertical:	0.	0			0	(O)
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	61.74	-4.59	57.15	68.2	-11.05	peak
s ^{ano} 11096	55.33	4.21	59.54	74	-14.46	peak
11096	37.45	4.21	41.66	54	-12.34	AVG

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

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MID CH157

Horizont	al:	1			9	~
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	61.22	-4.59	56.63	68.2	-11.57	peak
10523	52.09	4.21	56.3	68.2	-11.9	peak

Level-Limit.

Vertical:

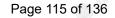
vertical.	JUL			JUL -		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3172	58.16	-4.59	53.57	68.2	-14.63	peak
10523	51.13	4.21	55.34	68.2	-12.86	peak

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

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CATION



HIGH CH165

JAK TESTING

al:	-			w.	
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
60.21	-4.59	55.62	74	-18.38	peak
48.83	-4.59	44.24	54	-9.76	AVG
53.65	4.84	58.49	74	-15.51	peak
42.36	4.84	47.2	54	o -6.8	AVG
	Meter Reading (dBµV) 60.21 48.83 53.65	Meter Reading Factor (dBµV) (dB) 60.21 -4.59 48.83 -4.59 53.65 4.84	Meter Reading Factor Emission Level (dBμV) (dB) (dBμV/m) 60.21 -4.59 55.62 48.83 -4.59 44.24 53.65 4.84 58.49	Meter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 60.21 -4.59 55.62 74 48.83 -4.59 44.24 54 53.65 4.84 58.49 74	Meter Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 60.21 -4.59 55.62 74 -18.38 48.83 -4.59 44.24 54 -9.76 53.65 4.84 58.49 74 -15.51

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

Vertical:	μ	0			0	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	58.25	-4.59	53.66	74	-20.34	peak
2705	45.34	-4.59	40.75	54	-13.25	AVG
11717	51.66	4.84	56.5	74	-17.5	peak
11717	42.51	4.84	47.35	54	-6.65	AVG

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

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.

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5.8G 802.11ac40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 151

	Horizonta	al:					
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
20	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
<1 ²	asi 3368	60.84	-4.59	56.25	68.2	-11.95	peak
	11096	56.55	4.21	60.76	74	-13.24	peak
e.	11096	40.22	4.21	44.43	54	-9.57 ⁹	AVG

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

Vertical:		0"	0		0"	0
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
3368	61.02	-4.59	56.43	68.2	-11.77	peak
s ⁶⁶⁶ 11096	55.07	4.21	59.28	74	-14.72	peak
11096	42.11	4.21	46.32	54	-7.68	AVG

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

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HIGH CH159

Horizonta	al:	W	~		9	~
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
3172	56.35	-4.59	51.76	68.2	-16.44	peak
s ^{ano} 10523	52.63	4.21	56.84	68.2	-11.36	peak
Remark: Factor	= Cable loss + Ant	enna factor + A	Attenuator – Pream	nolifier: Level =	Reading + Fac	tor: Margin =

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

Vertical:

ventical.	HU.					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	56.28	-4.59	51.69	68.2	-16.51	peak
10523	50.38	4.21	54.59	68.2	-13.61	peak

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

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.

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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)	Delector Type
3368	60.19	-4.59	55.6	68.2	-12.6	peak
11096	56.13	4.21	60.34	74	-13.66	peak
11096	42.88	4.21	47.09	54	o -6.91	AVG

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

Vertical:))	0"			0	0
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	61.08	-4.59	56.49	68.2	-11.71	peak
an ^e 11096	53.73	4.21	57.94	74	-16.06	peak
11096	42.19	4.21	46.4	54	-7.6	AVG

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

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.

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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)	Delector Type
3368	61.13	-4.59	56.54	68.2	-11.66	peak
11096	52.03	4.21	56.24	74	-17.76	peak
11096	43.11	4.21	47.32	54	-6.68	AVG

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

Vertical:			-			-
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	60.69	-4.59	56.1	68.2	-12.1	peak
11096	55.16	4.21	59.37	74	-14.63	peak
11096	42.58	4.21	46.79	54	-7.21	AVG

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

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MID CH157

Horizont	al:	1			W	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
3172	61.64	-4.59	57.05	68.2	-11.15	peak
10523	51.42	4.21	55.63	68.2	-12.57	peak

Level-Limit.

Vertical:

vertieal.	100	~				
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	57.52	-4.59	52.93	68.2	-15.27	peak
10523	54.31	4.21	58.52	68.2	-9.68	peak

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

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FICATION



HIGH CH165

al:	Ŵ			S.	
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
60.83	-4.59	56.24	74	-17.76	peak
47.34	-4.59	42.75	54	-11.25	AVG
52.88	4.84	57.72	74	-16.28	peak
42.19	4.84	47.03	54	o -6.97	AVG
	Meter Reading (dBµV) 60.83 47.34 52.88	Meter Reading Factor (dBµV) (dB) 60.83 -4.59 47.34 -4.59 52.88 4.84	Meter Reading Factor Emission Level (dBµV) (dB) (dBµV/m) 60.83 -4.59 56.24 47.34 -4.59 42.75 52.88 4.84 57.72	Meter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 60.83 -4.59 56.24 74 47.34 -4.59 42.75 54 52.88 4.84 57.72 74	Meter Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 60.83 -4.59 56.24 74 -17.76 47.34 -4.59 42.75 54 -11.25 52.88 4.84 57.72 74 -16.28

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

Vertical:		w.	-		w.	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2705	56.71	-4.59	52.12	74	-21.88	peak
2705	46.13	-4.59	41.54	54	-12.46	AVG
11717	53.26	4.84	58.1	74	-15.9	peak
11717	42.18	4.84	47.02	54	-6.98	AVG

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

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.

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5.8G 802.11ax40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 151

	Horizonta	al:					
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
22	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m) 🌔	(dB)	Detector Type
<	3368	57.75	-4.59	53.16	68.2	-15.04	peak
Ī	11096	58.59	4.21	62.8	74	-11.2	peak
e.	11096	35.22	4.21	39.43	54	• -14.57 [•]	AVG

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

		~			-
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Tures
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
63.42	-4.59	58.83	68.2	-9.37	peak
54.29	4.21	58.5	74	-15.5	peak
35.74	4.21	39.95	54	-14.05	AVG
	(dBµV) 63.42 54.29	(dBµV) (dB) 63.42 -4.59 54.29 4.21	(dBµV) (dB) (dBµV/m) 63.42 -4.59 58.83 54.29 4.21 58.5	(dBµV) (dB) (dBµV/m) (dBµV/m) 63.42 -4.59 58.83 68.2 54.29 4.21 58.5 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) (dB) 63.42 -4.59 58.83 68.2 -9.37 54.29 4.21 58.5 74 -15.5

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

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Page 123 of 136

HIGH CH159

al:	w.			I A A A A A A A A A A A A A A A A A A A	
Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
62.05	-4.59	57.46	68.2	-10.74	peak
51.12	4.21	55.33	68.2	-12.87	peak
	Meter Reading (dBµV) 62.05	Meter ReadingFactor(dBµV)(dB)62.05-4.59	Meter ReadingFactorEmission Level(dBµV)(dB)(dBµV/m)62.05-4.5957.46	Meter ReadingFactorEmission LevelLimits(dBµV)(dB)(dBµV/m)(dBµV/m)62.05-4.5957.4668.2	Meter ReadingFactorEmission LevelLimitsMargin(dBµV)(dB)(dBµV/m)(dBµV/m)(dB)62.05-4.5957.4668.2-10.74

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

Vertical:

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type			
3172	58.28	-4.59	53.69	68.2	-14.51	peak			
10523	51.05	4.21	55.26	68.2	-12.94	peak			

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

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.

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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)	Delector Type
3368	57.77	-4.59	53.18	68.2	-15.02	peak
11096	56.43	4.21	60.64	74	-13.36	peak
11096	35.66	4.21	39.87	54	o -14.13 ^o	AVG

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

Vertical:		۲			e	<i></i>
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	61.46	-4.59	56.87	68.2	-11.33	peak
11096	53.76	4.21	57.97	74	-16.03	peak
11096	43.26	4.21	47.47	54	-6.53	AVG

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

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.

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5.8G 802.11be20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 149

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	60.04	-4.59	55.45	68.2	-12.75	peak
11096	48.45	4.21	52.66	74	-21.34	peak
11096	35.58	4.21	39.79	54	· -14.21	AVG

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

Vertical:					w.	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
3368	59.55	-4.59	54.96	68.2	-13.24	peak
11096	55.74	4.21	59.95	74	-14.05	peak
11096	37.42	4.21	41.63	54	-12.37	AVG

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

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MID CH157

Horizont	al:	1			W	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
3172	59.94	-4.59	55.35	68.2	-12.85	peak
10523	50.63	4.21	54.84	68.2	-13.36	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Mar Level-Limit.

Vertical:

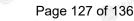
ventioai.	Vertioui.								
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type			
3172	57.06	-4.59	52.47	68.2	-15.73	peak			
10523	53.05	4.21	57.26	68.2	-10.94	peak			

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

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HIGH CH165

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Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
59.93	-4.59	55.34	74	-18.66	peak
47.31	-4.59	42.72	54	-11.28	AVG
53.71	4.84	58.55	74	-15.45	peak
36.37	4.84	41.21	54	-12.79	AVG
	Meter Reading (dBµV) 59.93 47.31 53.71	Meter Reading Factor (dBµV) (dB) 59.93 -4.59 47.31 -4.59 53.71 4.84	Meter Reading Factor Emission Level (dBµV) (dB) (dBµV/m) 59.93 -4.59 55.34 47.31 -4.59 42.72 53.71 4.84 58.55	Meter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 59.93 -4.59 55.34 74 47.31 -4.59 42.72 54 53.71 4.84 58.55 74	Meter Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 59.93 -4.59 55.34 74 -18.66 47.31 -4.59 42.72 54 -11.28 53.71 4.84 58.55 74 -15.45

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

Vertical:		Ŵ	~		w.	-
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
2705	57.41	-4.59	52.82	74	-21.18	peak
2705	44.25	-4.59	39.66	54	-14.34	AVG
11717	51.84	4.84	56.68	74	-17.32	peak
11717	42.16	4.84	47	54	^{اه} -7	AVG

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

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.

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5.8G 802.11be40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported. LOW CH 151

-	Horizonta	al:					
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Ture
2	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
<	3368	58.48	-4.59	53.89	68.2	-14.31	peak
ĺ	11096	56.32	4.21	60.53	74	-13.47	peak
	11096	37.21	4.21	41.42	54	o -12.58	AVG

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

Vertical:		Ŵ			w.	-
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	61.78	-4.59	57.19	68.2	-11.01	peak
11096	54.74	4.21	58.95	74	-15.05	peak
11096	42.16	4.21	46.37	54	-7.63	AVG

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

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HIGH CH159

Horizonta	al:	I A A A A A A A A A A A A A A A A A A A	<i>w</i>		w.	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3172	61.17	-4.59	56.58	68.2	-11.62	peak
sa 10523	50.79	4.21	55	68.2	-13.2	peak
Remark: Eactor	r = Cable loss + Ante	anna factor + A	ttenuator - Pream	nolifier: Level =	Reading + Ear	tor: Margin =

Page 129 of 136

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

Vertical:

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3172	58.34	-4.59	53.75	68.2	-14.45	peak
10523	52.31	4.21	56.52	68.2	-11.68	peak

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

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.

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5.8G 802.11be80 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)	Detector Type
3368	59.09	-4.59	54.5	68.2	-13.7	peak
11096	56.24	4.21	60.45	74	-13.55	peak
11096	42.16	4.21	46.37	54	o -7.63	AVG

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

Vertical:		۲			w.	<u> </u>
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3368	62.83	-4.59	58.24	68.2	-9.96	peak
a ^{nne} 11096	54.64	4.21	58.85	74	-15.15	peak
11096	42.16	4.21	46.37	54	-7.63	AVG

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

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.

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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:	Spectrum Analyzer EUT AC/DC Power supply
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

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Page 132 of 136

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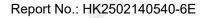
Test Result as follows:

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
	16.15V	5744.982	-18	5824.991	-9
5.8G Band	19V	5745.016	16	5825.016	16
O HOM	21.85V	5745.012	12	5824.982	-18

Mode	Temperature (℃)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
3	-30	5744.977	-23	5824.985	-15
	-20	5744.969	-31	5824.988	-12
	-10	5744.985	-15	5825.021	21
	0	5745.011	11	5825.019	19
5.8G Band	10	5744.971	-29	5825.024	24
	20	5745.022	22	5824.972	-28
	30	5744.974	-26	5825.016	16
	40	5744.966	-34	5825.015	15
	50	5745.058	58	5825.017	17
	- 6	10		0	

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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 FPC antenna, need professional installation, not easy to remove. It conforms to the standard requirements. and the best case gain of the antenna is Antenna port 1: 0.89dBi and Antenna port 2: 0.97dBi.

WIFI ANTENNA



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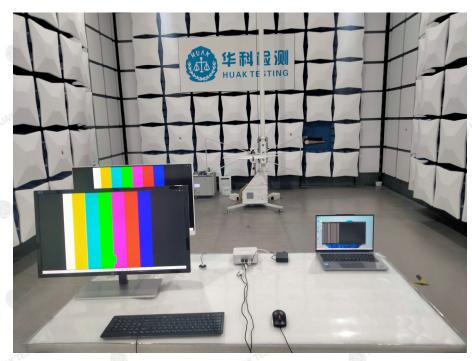


Page 134 of 136

Report No.: HK2502140540-6E



Radiated Emission





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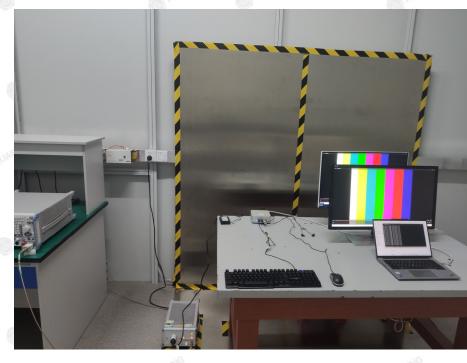
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Page 135 of 136

Report No.: HK2502140540-6E

Conducted Emission



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Page 136 of 136

Report No.: HK2502140540-6E

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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---

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