

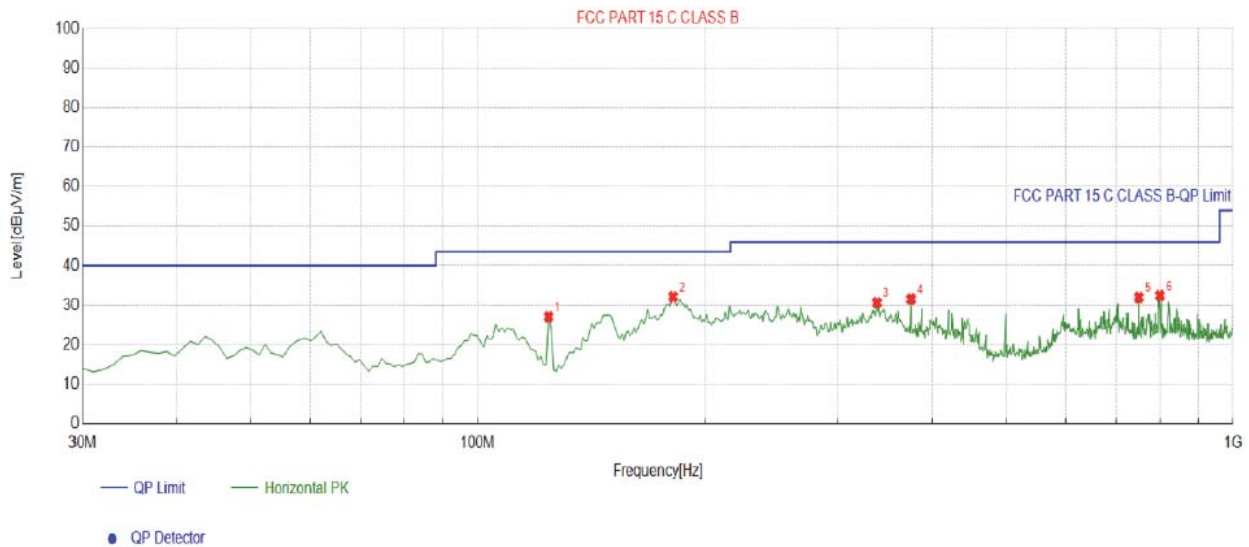


Adapter 2:

Please refer to following diagram for individual
Below 1GHz

All the test modes completed for test. only the worst result of AC240V/60Hz(802.11b at 2412MHz)
was reported as below:

Horizontal

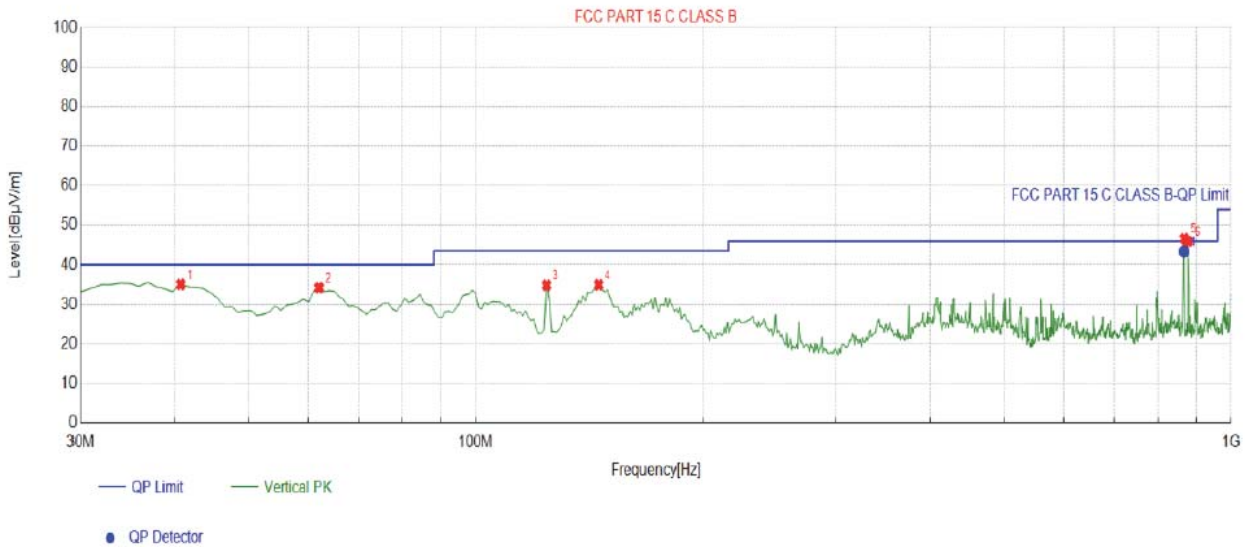


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	124.1842	-17.72	44.79	27.07	43.50	16.43	100	145	Horizontal
2	181.4715	-16.73	48.89	32.16	43.50	11.34	100	327	Horizontal
3	337.7978	-11.63	42.27	30.64	46.00	15.36	100	198	Horizontal
4	374.6947	-10.92	42.49	31.57	46.00	14.43	100	220	Horizontal
5	750.4605	-3.71	35.72	32.01	46.00	13.99	100	140	Horizontal
6	799.9800	-3.12	35.55	32.43	46.00	13.57	100	194	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	40.6807	-14.42	49.44	35.02	40.00	4.98	100	118	Vertical
2	62.0420	-15.67	49.85	34.18	40.00	5.82	100	256	Vertical
3	124.1842	-17.72	52.54	34.82	43.50	8.68	100	30	Vertical
4	145.5455	-19.05	53.99	34.94	43.50	8.56	100	46	Vertical
5	866.9770	-2.31	48.90	46.59	46.00	-0.59	100	217	Vertical
6	877.6577	-2.11	47.98	45.87	46.00	0.13	100	161	Vertical

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	866.2992	-2.32	45.62	43.30	46.00	2.70	200	279.1	Vertical

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

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * 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.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

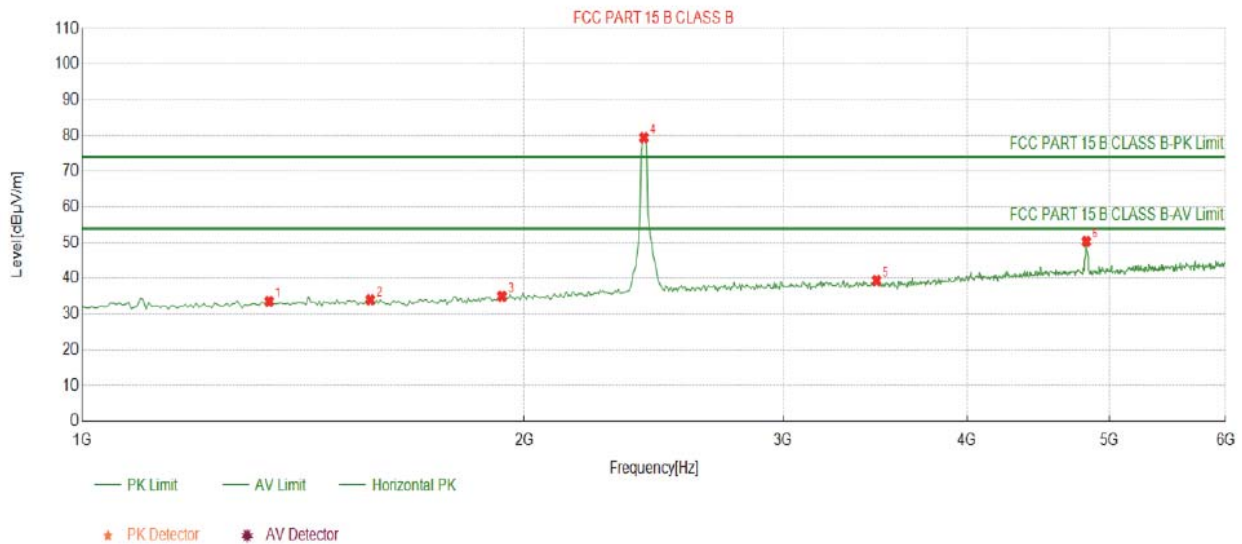


Above 1GHz

RADIATED EMISSION TEST

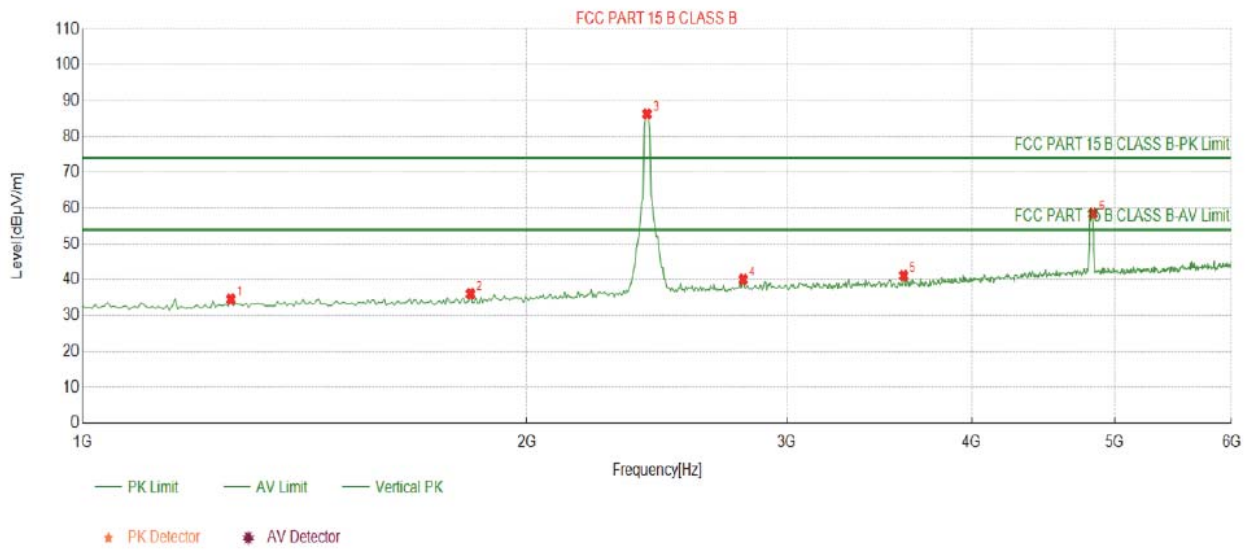
Adapter 1:

All the test modes completed for test. Only the worst result of was reported as below:



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1340.3403	-20.77	54.36	33.59	74.00	40.41	150	169	Horizontal
2	1570.5706	-20.45	54.50	34.05	74.00	39.95	150	335	Horizontal
3	1930.9309	-19.13	54.21	35.08	74.00	38.92	150	252	Horizontal
4	2411.4114	-16.94	96.35	79.41	74.00	-5.41	150	82	Horizontal
5	3472.4725	-14.51	53.97	39.46	74.00	34.54	150	185	Horizontal
6	4823.8238	-11.18	61.55	50.37	74.00	23.63	150	82	Horizontal

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

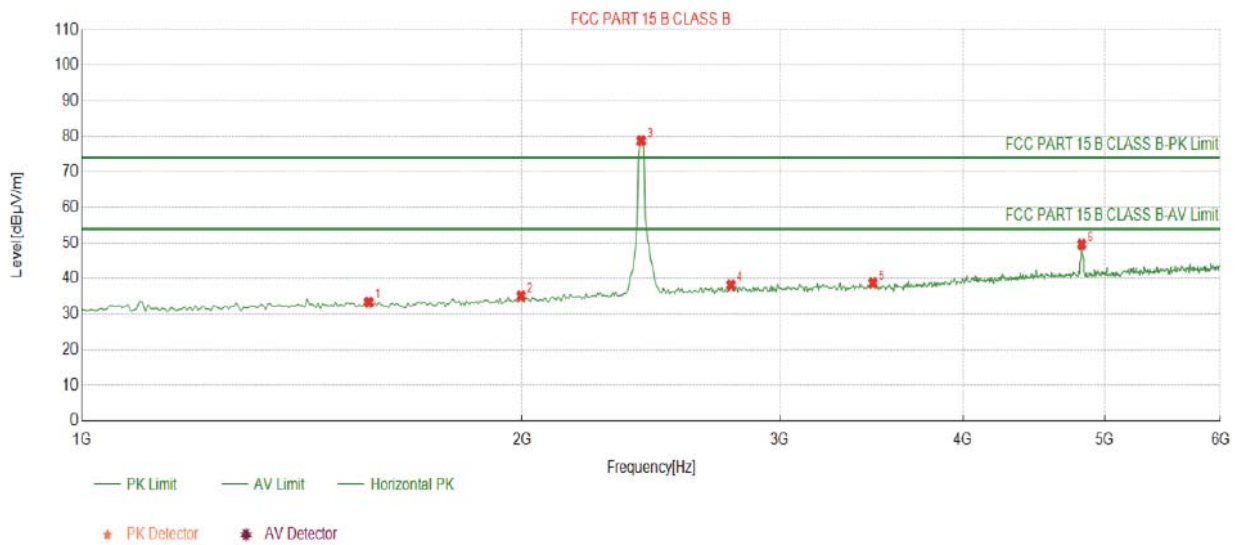


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1260.2603	-21.22	55.82	34.60	74.00	39.40	150	184	Vertical
2	1830.8308	-19.70	55.80	36.10	74.00	37.90	150	152	Vertical
3	2411.4114	-16.94	103.25	86.31	74.00	-12.31	150	259	Vertical
4	2801.8018	-15.88	55.97	40.09	74.00	33.91	150	148	Vertical
5	3597.5976	-14.67	55.85	41.18	74.00	32.82	150	340	Vertical
6	4833.8338	-11.13	69.64	58.51	74.00	15.49	150	259	Vertical

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

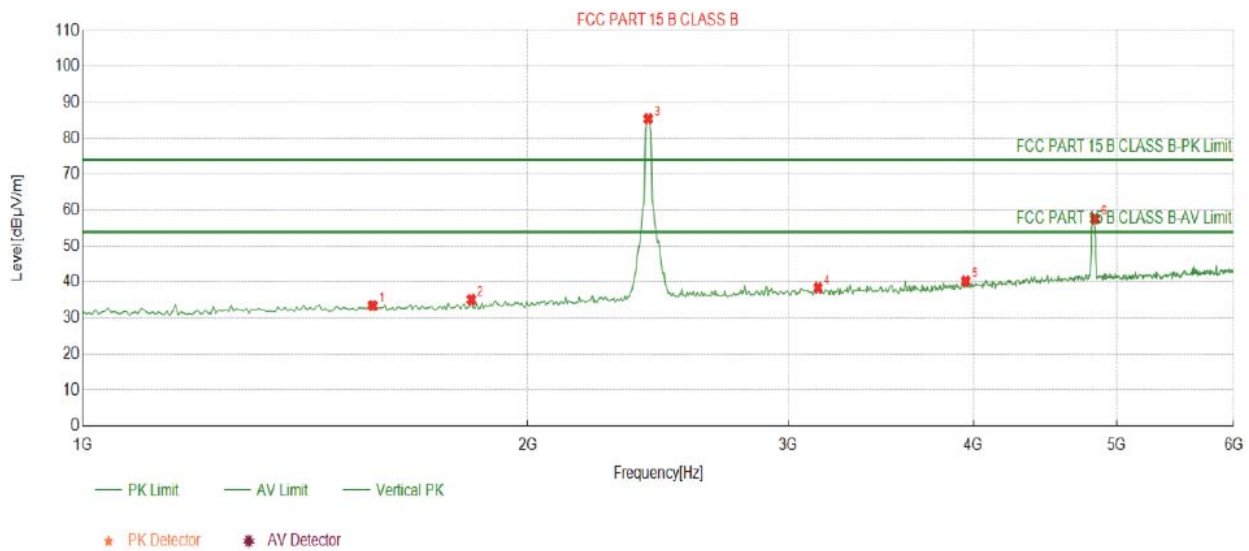


Adapter 2:

All the test modes completed for test. Only the worst result of was reported as below:**Suspected List**

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1570.5706	-20.45	53.80	33.35	74.00	40.65	150	335	Horizontal
2	1995.9960	-18.63	53.81	35.18	74.00	38.82	150	300	Horizontal
3	2411.4114	-16.94	95.65	78.71	74.00	-4.71	150	82	Horizontal
4	2776.7768	-15.94	54.18	38.24	74.00	35.76	150	30	Horizontal
5	3472.4725	-14.51	53.27	38.76	74.00	35.24	150	185	Horizontal
6	4823.8238	-11.18	60.85	49.67	74.00	24.33	150	82	Horizontal

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



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1570.5706	-20.45	53.94	33.49	74.00	40.51	150	280	Vertical
2	1830.8308	-19.70	54.90	35.20	74.00	38.80	150	152	Vertical
3	2411.4114	-16.94	102.35	85.41	74.00	-11.41	150	259	Vertical
4	3142.1421	-15.12	53.56	38.44	74.00	35.56	150	79	Vertical
5	3952.9530	-13.41	53.68	40.27	74.00	33.73	150	348	Vertical
6	4833.8338	-11.13	68.74	57.61	74.00	16.39	150	259	Vertical

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



LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	58.64	-3.64	55	74	-19	peak
4824	47.25	-3.64	43.61	54	-10.39	AVG
7236	57.26	-0.95	56.31	74	-17.69	peak
7236	43.22	-0.95	42.27	54	-11.73	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)	
4824	58.62	-3.64	54.98	74	-19.02	peak
4824	45.32	-3.64	41.68	54	-12.32	AVG
7236	56.10	-0.95	55.15	74	-18.85	peak
7236	41.69	-0.82	40.87	54	-13.13	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	58.47	-3.51	54.96	74	-19.04	peak
4874	45.32	-3.51	41.81	54	-12.19	AVG
7311	57.89	-0.82	57.07	74	-16.93	peak
7311	42.16	-0.82	41.34	54	-12.66	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)	
4874	58.87	-3.51	55.36	74	-18.64	peak
4874	45.32	-3.51	41.81	54	-12.19	AVG
7311	56.34	-0.82	55.52	74	-18.48	peak
7311	41.41	-0.82	40.59	54	-13.41	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	58.16	-3.43	54.73	74	-19.27	peak
4924	44.35	-3.43	40.92	54	-13.08	AVG
7386	55.72	-0.75	54.97	74	-19.03	peak
7386	43.26	-0.75	42.51	54	-11.49	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)	
4924	58.32	-3.43	54.89	74	-19.11	peak
4924	44.71	-3.43	41.28	54	-12.72	AVG
7386	56.31	-0.75	55.56	74	-18.44	peak
7386	41.02	-0.75	40.27	54	-13.73	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

(1) Measuring frequencies from 1 GHz to the 25 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.

(7) All modes of operation were investigated and the worst-case emissions of ANT.1 are reported.



LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	59.37	-3.64	55.73	74	-18.27	peak
4824	43.16	-3.64	39.52	54	-14.48	AVG
7236	55.72	-0.95	54.77	74	-19.23	peak
7236	42.68	-0.95	41.73	54	-12.27	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)	
4824	58.32	-3.64	54.68	74	-19.32	peak
4824	44.16	-3.64	40.52	54	-13.48	AVG
7236	58.34	-0.95	57.39	74	-16.61	peak
7236	44.02	-0.95	43.07	54	-10.93	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	59.37	-3.51	55.86	74	-18.14	peak
4874	45.32	-3.51	41.81	54	-12.19	AVG
7311	58.14	-0.82	57.32	74	-16.68	peak
7311	42.16	-0.82	41.34	54	-12.66	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)	
4874	59.37	-3.51	55.86	74	-18.14	peak
4874	45.32	-3.51	41.81	54	-12.19	AVG
7311	55.18	-0.82	54.36	74	-19.64	peak
7311	43.2	-0.82	42.38	54	-11.62	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	60.38	-3.43	56.95	74	-17.05	peak
4924	45.28	-3.43	41.85	54	-12.15	AVG
7386	56.72	-0.75	55.97	74	-18.03	peak
7386	41.09	-0.75	40.34	54	-13.66	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)	
4924	60.35	-3.43	56.92	74	-17.08	peak
4924	46.27	-3.43	42.84	54	-11.16	AVG
7386	55.89	-0.75	55.14	74	-18.86	peak
7386	41.06	-0.75	40.31	54	-13.69	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

(1) Measuring frequencies from 1 GHz to the 25 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.

(7) All modes of operation were investigated and the worst-case emissions of ANT.1 are reported.



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	59.37	-3.64	55.73	74	-18.27	peak
4824	45.32	-3.64	41.68	54	-12.32	AVG
7236	58.09	-0.95	57.14	74	-16.86	peak
7236	42.55	-0.95	41.6	54	-12.4	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)	
4824	58.34	-3.64	54.7	74	-19.3	peak
4824	45.37	-3.64	41.73	54	-12.27	AVG
7236	58.32	-0.95	57.37	74	-16.63	peak
7236	43.2	-0.95	42.25	54	-11.75	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	58.74	-3.51	55.23	74.00	-18.77	peak
4874.00	45.32	-3.51	41.81	54.00	-12.19	AVG
7311.00	56.31	-0.82	55.49	74.00	-18.51	peak
7311.00	42.24	-0.82	41.42	54.00	-12.58	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)	
4874.00	58.19	-3.51	54.68	74.00	-19.32	peak
4874.00	45.32	-3.51	41.81	54.00	-12.19	AVG
7311.00	55.28	-0.82	54.46	74.00	-19.54	peak
7311.00	42.19	-0.82	41.37	54.00	-12.63	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	59.01	-3.43	55.58	74	-18.42	peak
4924	45.32	-3.43	41.89	54	-12.11	AVG
7386	55.17	-0.75	54.42	74	-19.58	peak
7386	42.11	-0.75	41.36	54	-12.64	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)	
4924	58.32	-3.43	54.89	74	-19.11	peak
4924	44.16	-3.43	40.73	54	-13.27	AVG
7386	56.38	-0.75	55.63	74	-18.37	peak
7386	40.25	-0.75	39.5	54	-14.5	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	58.32	-3.63	54.69	74	-19.31	peak
4844	45.15	-3.63	41.52	54	-12.48	AVG
7266	56.38	-0.94	55.44	74	-18.56	peak
7266	44.28	-0.94	43.34	54	-10.66	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)	
4844	59.28	-3.63	55.65	74	-18.35	peak
4844	46.24	-3.63	42.61	54	-11.39	AVG
7266	55.64	-0.94	54.7	74	-19.3	peak
7266	40.99	-0.94	40.05	54	-13.95	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	59.33	-3.51	55.82	74	-18.18	peak
4874	46.25	-3.51	42.74	54	-11.26	AVG
7311	55.65	-0.82	54.83	74	-19.17	peak
7311	40.97	-0.82	40.15	54	-13.85	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)	
4874	59.31	-3.51	55.8	74	-18.2	peak
4874	46.22	-3.51	42.71	54	-11.29	AVG
7311	55.67	-0.82	54.85	74	-19.15	peak
7311	40.98	-0.82	40.16	54	-13.84	AVG

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



HIGH CH9 (802.11n/H40 Mode)/2452
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	59.30	-3.43	55.87	74	-18.13	peak
4904	46.27	-3.43	42.84	54	-11.16	AVG
7356	55.63	-0.75	54.88	74	-19.12	peak
7356	40.96	-0.75	40.21	54	-13.79	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)	
4904	58.69	-3.43	55.26	74	-18.74	peak
4904	43.19	-3.43	39.76	54	-14.24	AVG
7356	56.13	-0.75	55.38	74	-18.62	peak
7356	42.28	-0.75	41.53	54	-12.47	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



LOW CH1 (802.11ac/H20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	59.02	-3.64	55.38	74	-18.62	peak
4824	43.15	-3.64	39.51	54	-14.49	AVG
7236	56.98	-0.95	56.03	74	-17.97	peak
7236	42.25	-0.95	41.3	54	-12.7	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)	
4824	58.86	-3.64	55.22	74	-18.78	peak
4824	43.38	-3.64	39.74	54	-14.26	AVG
7236	56.79	-0.95	55.84	74	-18.16	peak
7236	42.16	-0.95	41.21	54	-12.79	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11ac/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	58.61	-3.51	55.10	74.00	-18.90	peak
4874.00	43.22	-3.51	39.71	54.00	-14.29	AVG
7311.00	56.87	-0.82	56.05	74.00	-17.95	peak
7311.00	42.16	-0.82	41.34	54.00	-12.66	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)	
4874.00	59.38	-3.51	55.87	74.00	-18.13	peak
4874.00	46.38	-3.51	42.87	54.00	-11.13	AVG
7311.00	55.22	-0.82	54.40	74.00	-19.60	peak
7311.00	41.25	-0.82	40.43	54.00	-13.57	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH11 (802.11ac/H20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	59.64	-3.43	56.21	74	-17.79	peak
4924	46.32	-3.43	42.89	54	-11.11	AVG
7386	55.28	-0.75	54.53	74	-19.47	peak
7386	41.25	-0.75	40.5	54	-13.5	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)	
4924	58.88	-3.43	55.45	74	-18.55	peak
4924	43.62	-3.43	40.19	54	-13.81	AVG
7386	56.37	-0.75	55.62	74	-18.38	peak
7386	42.16	-0.75	41.41	54	-12.59	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



LOW CH3 (802.11ac/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	58.62	-3.63	54.99	74	-19.01	peak
4844	44.26	-3.63	40.63	54	-13.37	AVG
7266	56.18	-0.94	55.24	74	-18.76	peak
7266	42.62	-0.94	41.68	54	-12.32	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)	
4844	59.32	-3.63	55.69	74	-18.31	peak
4844	46.35	-3.63	42.72	54	-11.28	AVG
7266	55.28	-0.94	54.34	74	-19.66	peak
7266	40.22	-0.94	39.28	54	-14.72	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11ac/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	58.62	-3.51	55.11	74	-18.89	peak
4874	43.62	-3.51	40.11	54	-13.89	AVG
7311	56.32	-0.82	55.5	74	-18.5	peak
7311	42.15	-0.82	41.33	54	-12.67	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)	
4874	58.69	-3.51	55.18	74	-18.82	peak
4874	43.62	-3.51	40.11	54	-13.89	AVG
7311	56.31	-0.82	55.49	74	-18.51	peak
7311	42.11	-0.82	41.29	54	-12.71	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH9 (802.11ac/H40 Mode)/2452
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	59.62	-3.43	56.19	74	-17.81	peak
4904	46.35	-3.43	42.92	54	-11.08	AVG
7356	55.72	-0.75	54.97	74	-19.03	peak
7356	41.25	-0.75	40.5	54	-13.5	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)	
4904	58.96	-3.43	55.53	74	-18.47	peak
4904	43.62	-3.43	40.19	54	-13.81	AVG
7356	56.37	-0.75	55.62	74	-18.38	peak
7356	42.22	-0.75	41.47	54	-12.53	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



LOW CH1 (802.11ax/H20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	58.74	-3.64	55.1	74	-18.9	peak
4824	43.18	-3.64	39.54	54	-14.46	AVG
7236	56.12	-0.95	55.17	74	-18.83	peak
7236	42.28	-0.95	41.33	54	-12.67	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)	
4824	58.69	-3.64	55.05	74	-18.95	peak
4824	43.18	-3.64	39.54	54	-14.46	AVG
7236	56.17	-0.95	55.22	74	-18.78	peak
7236	42.27	-0.95	41.32	54	-12.68	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11ax/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	58.74	-3.51	55.23	74.00	-18.77	peak
4874.00	43.15	-3.51	39.64	54.00	-14.36	AVG
7311.00	56.12	-0.82	55.30	74.00	-18.70	peak
7311.00	42.28	-0.82	41.46	54.00	-12.54	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)	
4874.00	59.30	-3.51	55.79	74.00	-18.21	peak
4874.00	46.24	-3.51	42.73	54.00	-11.27	AVG
7311.00	55.69	-0.82	54.87	74.00	-19.13	peak
7311.00	41.04	-0.82	40.22	54.00	-13.78	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH11 (802.11ax/H20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	59.26	-3.43	55.83	74	-18.17	peak
4924	46.21	-3.43	42.78	54	-11.22	AVG
7386	55.64	-0.75	54.89	74	-19.11	peak
7386	40.98	-0.75	40.23	54	-13.77	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)	
4924	58.67	-3.43	55.24	74	-18.76	peak
4924	43.18	-3.43	39.75	54	-14.25	AVG
7386	56.15	-0.75	55.4	74	-18.6	peak
7386	42.27	-0.75	41.52	54	-12.48	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



LOW CH3 (802.11ax/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	58.65	-3.63	55.02	74	-18.98	peak
4844	43.16	-3.63	39.53	54	-14.47	AVG
7266	56.17	-0.94	55.23	74	-18.77	peak
7266	42.35	-0.94	41.41	54	-12.59	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)	
4844	59.29	-3.63	55.66	74	-18.34	peak
4844	46.19	-3.63	42.56	54	-11.44	AVG
7266	55.69	-0.94	54.75	74	-19.25	peak
7266	40.95	-0.94	40.01	54	-13.99	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



MID CH6 (802.11ax/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	58.72	-3.51	55.21	74	-18.79	peak
4874	43.19	-3.51	39.68	54	-14.32	AVG
7311	56.1	-0.82	55.28	74	-18.72	peak
7311	42.31	-0.82	41.49	54	-12.51	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)	
4874	58.7	-3.51	55.19	74	-18.81	peak
4874	43.12	-3.51	39.61	54	-14.39	AVG
7311	56.14	-0.82	55.32	74	-18.68	peak
7311	42.32	-0.82	41.5	54	-12.5	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



HIGH CH9 (802.11ax/H40 Mode)/2452
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	59.34	-3.43	55.91	74	-18.09	peak
4904	46.21	-3.43	42.78	54	-11.22	AVG
7356	55.63	-0.75	54.88	74	-19.12	peak
7356	41.02	-0.75	40.27	54	-13.73	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)	
4904	58.68	-3.43	55.25	74	-18.75	peak
4904	43.16	-3.43	39.73	54	-14.27	AVG
7356	56.18	-0.75	55.43	74	-18.57	peak
7356	42.32	-0.75	41.57	54	-12.43	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.

**Test Result of Radiated Spurious at Band edges**

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

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)	
2310	58.34	-5.81	52.53	74	-21.47	peak
2310	/	-5.81	/	54	/	AVG
2390	59.34	-5.84	53.5	74	-20.5	peak
2390	/	-5.84	/	54	/	AVG
2400	58.14	-5.84	52.3	74	-21.7	peak
2400	/	-5.84	/	54	/	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)	
2310	56.32	-5.81	50.51	74	-23.49	peak
2310	/	-5.81	/	54	/	AVG
2390	57.49	-5.84	51.65	74	-22.35	peak
2390	/	-5.84	/	54	/	AVG
2400	58.36	-5.84	52.52	74	-21.48	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	58.32	-5.65	52.67	74	-21.33	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	56.17	-5.65	50.52	74	-23.48	peak
2500.00	/	-5.65	/	54	/	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)	
2483.50	56.82	-5.65	51.17	74	-22.83	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	56.73	-5.65	51.08	74	-22.92	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

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)	
2310	58.25	-5.81	52.44	74	-21.56	peak
2310	/	-5.81	/	54	/	AVG
2390	59.32	-5.84	53.48	74	-20.52	peak
2390	/	-5.84	/	54	/	AVG
2400	57.19	-5.84	51.35	74	-22.65	peak
2400	/	-5.84	/	54	/	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)	
2310	57.62	-5.81	51.81	74	-22.19	peak
2310	/	-5.81	/	54	/	AVG
2390	58.69	-5.84	52.85	74	-21.15	peak
2390	/	-5.84	/	54	/	AVG
2400	57.14	-5.84	51.3	74	-22.7	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	57.96	-5.65	52.31	74	-21.69	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.32	-5.65	49.67	74	-24.33	peak
2500.00	/	-5.65	/	54	/	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)	
2483.50	57.16	-5.65	51.51	74	-22.49	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	53.62	-5.65	47.97	74	-26.03	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	58.47	-5.81	52.66	74	-21.34	peak
2310	/	-5.81	/	54	/	AVG
2390	58.36	-5.84	52.52	74	-21.48	peak
2390	/	-5.84	/	54	/	AVG
2400	56.31	-5.84	50.47	74	-23.53	peak
2400	/	-5.84	/	54	/	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)	
2310	56.98	-5.81	51.17	74	-22.83	peak
2310	/	-5.81	/	54	/	AVG
2390	57.14	-5.84	51.3	74	-22.7	peak
2390	/	-5.84	/	54	/	AVG
2400	56.91	-5.84	51.07	74	-22.93	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	57.98	-5.65	52.33	74	-21.67	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.16	-5.65	48.51	74	-25.49	peak
2500.00	/	-5.65	/	54	/	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)	
2483.50	57.82	-5.65	52.17	74	-21.83	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	56.98	-5.65	51.33	74	-22.67	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	58.39	-5.81	52.58	74	-21.42	peak
2310	/	-5.81	/	54	/	AVG
2390	57.14	-5.84	51.3	74	-22.7	peak
2390	/	-5.84	/	54	/	AVG
2400	58.69	-5.84	52.85	74	-21.15	peak
2400	/	-5.84	/	54	/	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)	
2310	58.61	-5.81	52.8	74	-21.2	peak
2310	/	-5.81	/	54	/	AVG
2390	57.13	-5.84	51.29	74	-22.71	peak
2390	/	-5.84	/	54	/	AVG
2400	57.85	-5.84	52.01	74	-21.99	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	57.02	-5.65	51.37	74	-22.63	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	56.09	-5.65	50.44	74	-23.56	peak
2500.00	/	-5.65	/	54	/	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)	
2483.50	56.92	-5.65	51.27	74	-22.73	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.16	-5.65	48.51	74	-25.49	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Operation Mode: 802.11ax/H20 Mode TX CH Low (2412MHz)

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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	58.47	-5.81	52.66	74	-21.34	peak
2310	/	-5.81	/	54	/	AVG
2390	58.96	-5.84	53.12	74	-20.88	peak
2390	/	-5.84	/	54	/	AVG
2400	56.34	-5.84	50.5	74	-23.5	peak
2400	/	-5.84	/	54	/	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)	
2310	56.38	-5.81	50.57	74	-23.43	peak
2310	/	-5.81	/	54	/	AVG
2390	57.85	-5.84	52.01	74	-21.99	peak
2390	/	-5.84	/	54	/	AVG
2400	56.29	-5.84	50.45	74	-23.55	peak
2400	/	-5.84	/	54	/	AVG

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



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	57.19	-5.65	51.54	74	-22.46	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	58	-5.65	52.35	74	-21.65	peak
2500.00	/	-5.65	/	54	/	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)	
2483.50	56.19	-5.65	50.54	74	-23.46	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.34	-5.65	49.69	74	-24.31	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Operation Mode: 802.11ax/H40 Mode TX CH Low (2422MHz)

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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	58.37	-5.81	52.56	74	-21.44	peak
2310	/	-5.81	/	54	/	AVG
2390	57.92	-5.84	52.08	74	-21.92	peak
2390	/	-5.84	/	54	/	AVG
2400	57.57	-5.84	51.73	74	-22.27	peak
2400	/	-5.84	/	54	/	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)	
2310	58.49	-5.81	52.68	74	-21.32	peak
2310	/	-5.81	/	54	/	AVG
2390	57.92	-5.84	52.08	74	-21.92	peak
2390	/	-5.84	/	54	/	AVG
2400	57.14	-5.84	51.3	74	-22.7	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	57.82	-5.65	52.17	74	-21.83	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.62	-5.65	49.97	74	-24.03	peak
2500.00	/	-5.65	/	54	/	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)	
2483.50	56.37	-5.65	50.72	74	-23.28	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.19	-5.65	48.54	74	-25.46	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



4.7. 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 15.247, 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.

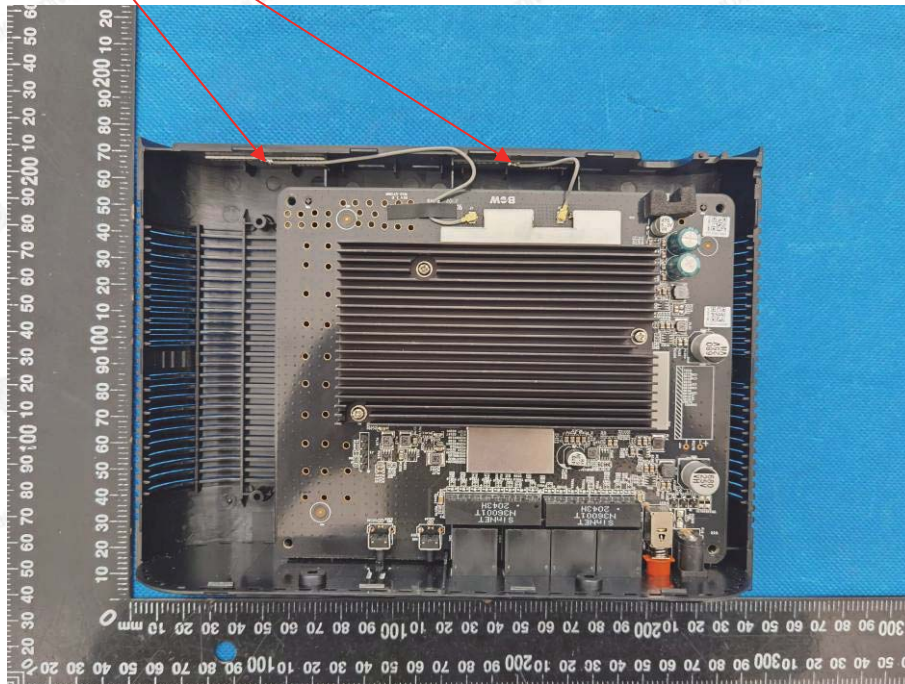
Refer to statement below for compliance.

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 permanently attached. It conforms to the standard requirements. and the best case gain of the antenna is Antenna port 1:4.2dBi and Antenna port 2:4.2dBi.

WIFI ANTENNA

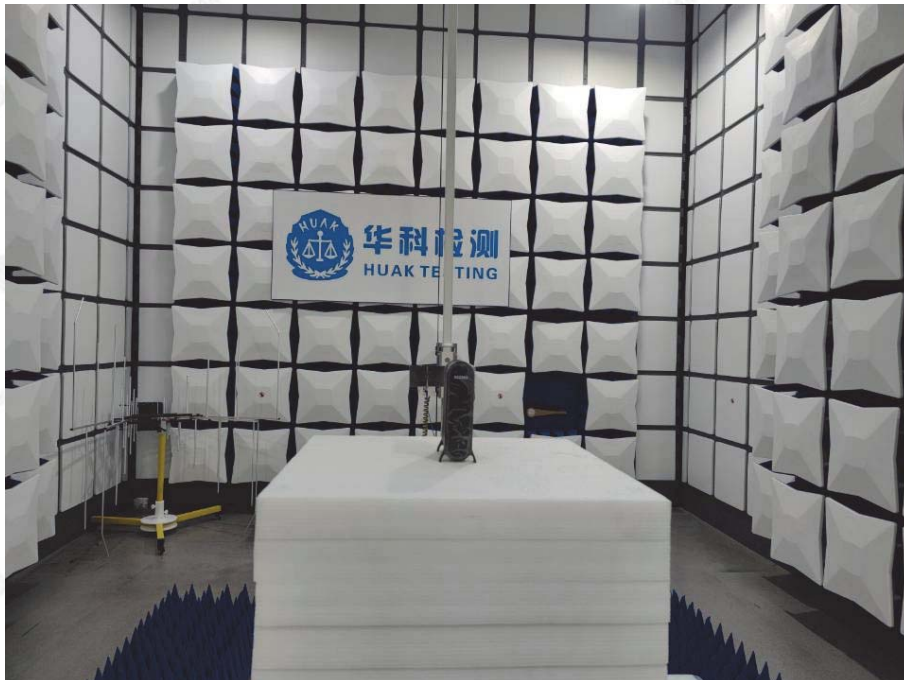
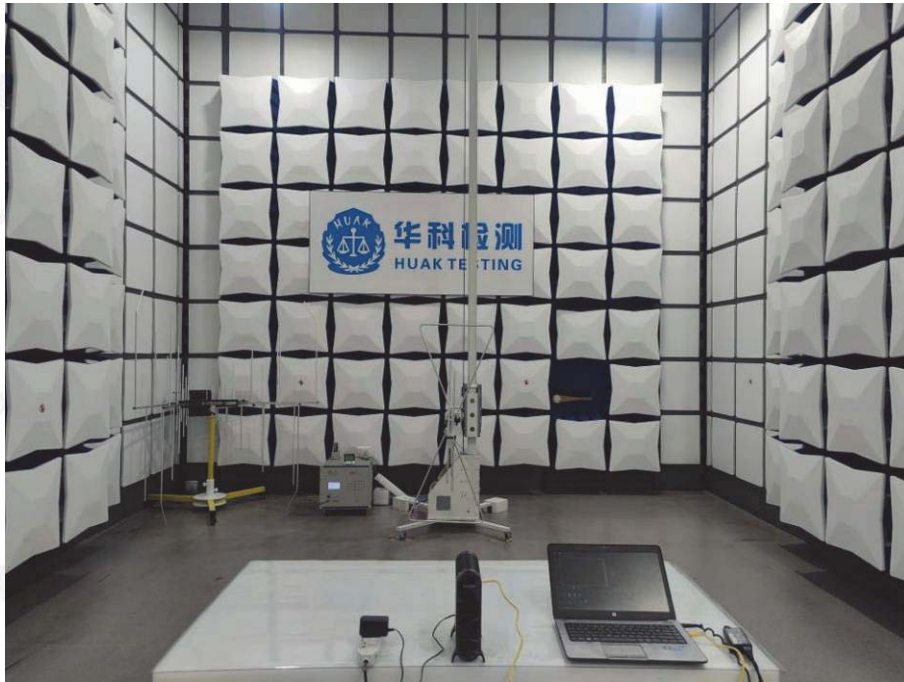




4.8. PHOTOGRAPH OF TEST

Adapter 1

Radiated Emission



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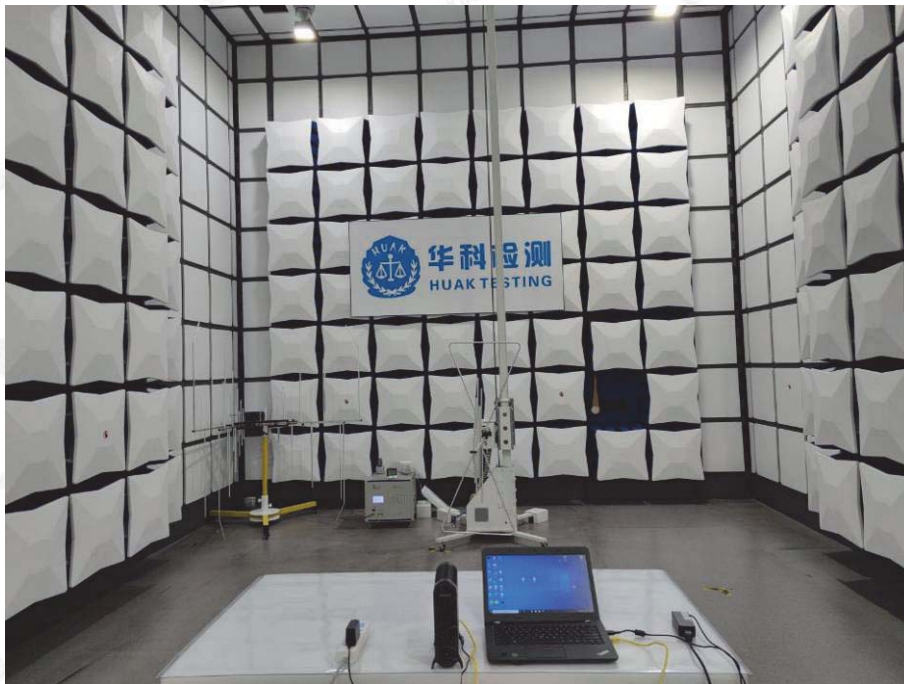
HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

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Adapter 2

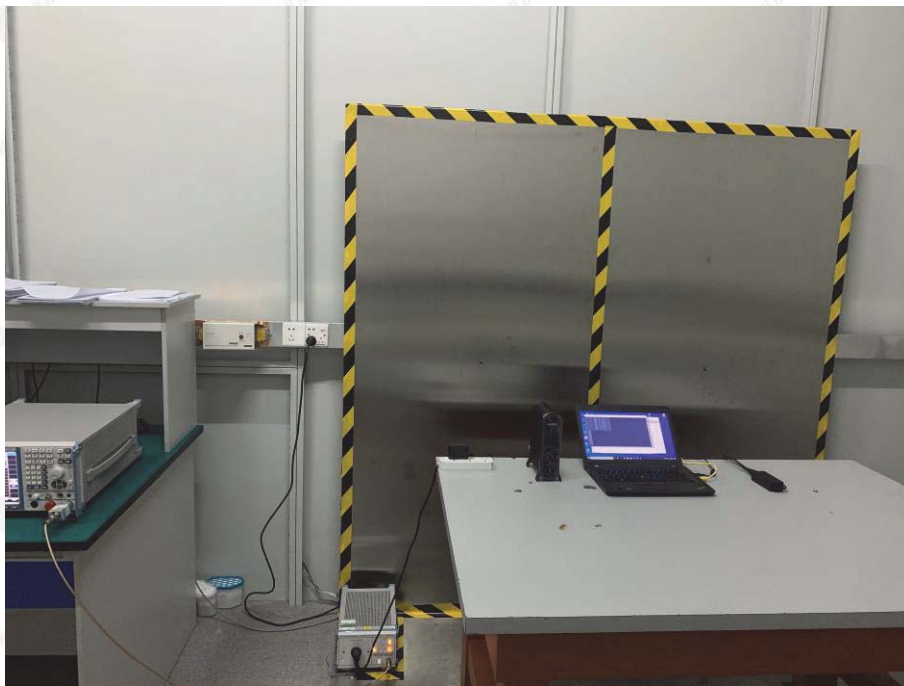
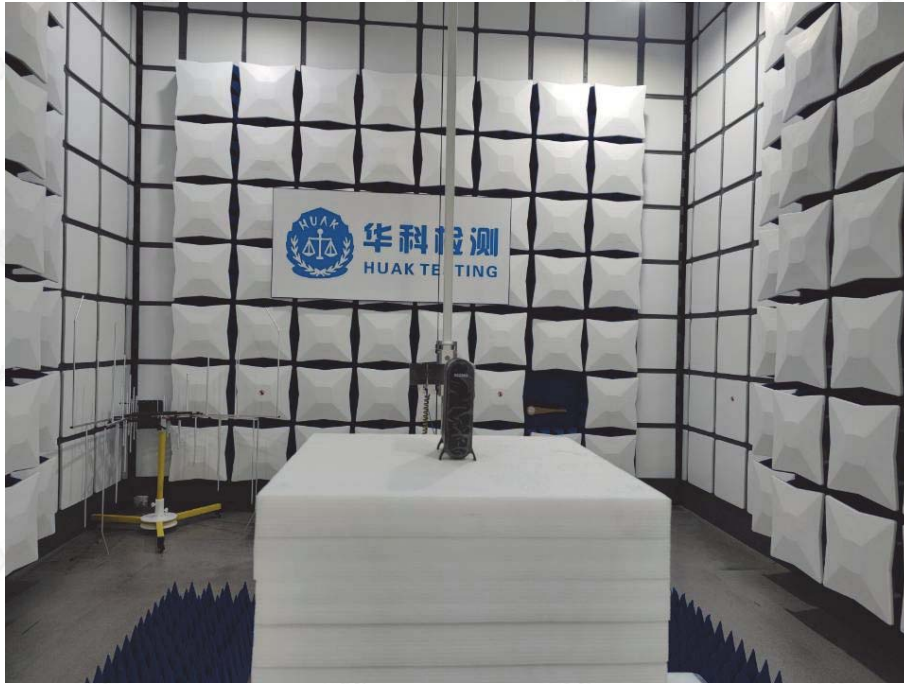
Radiated Emission



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4.9. PHOTOS OF THE EUT

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

*******End of Report*******