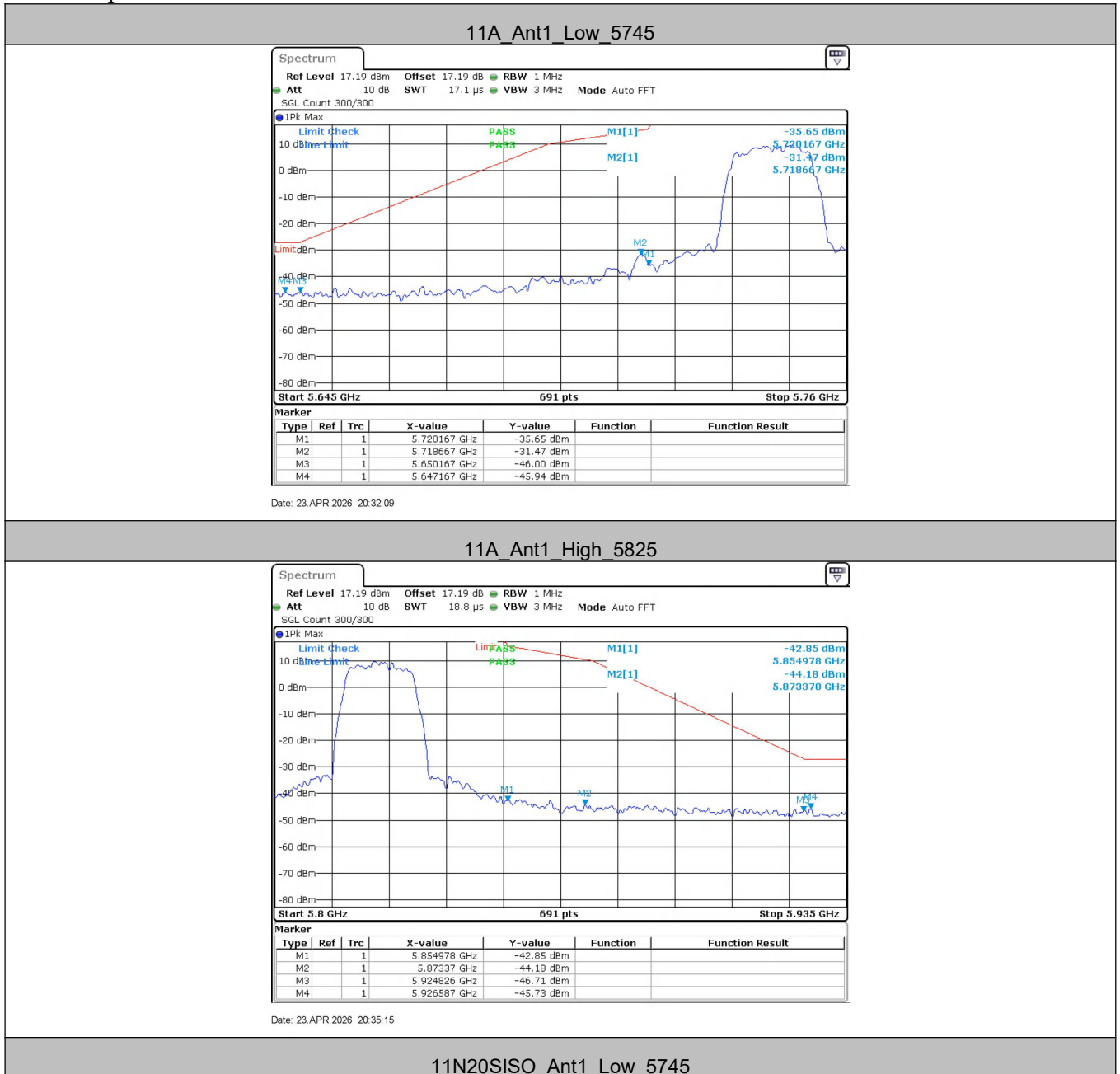
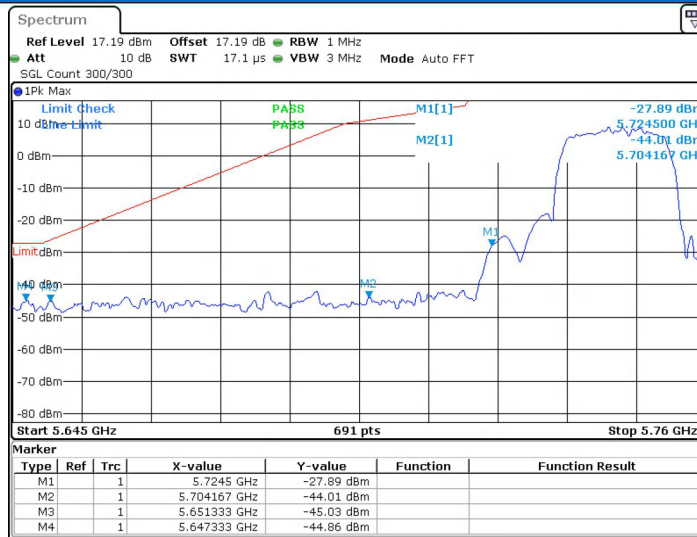


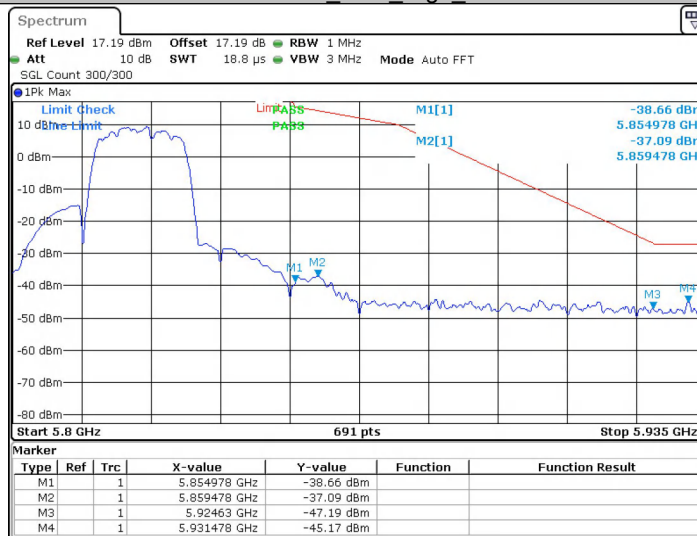
Test Graphs B4





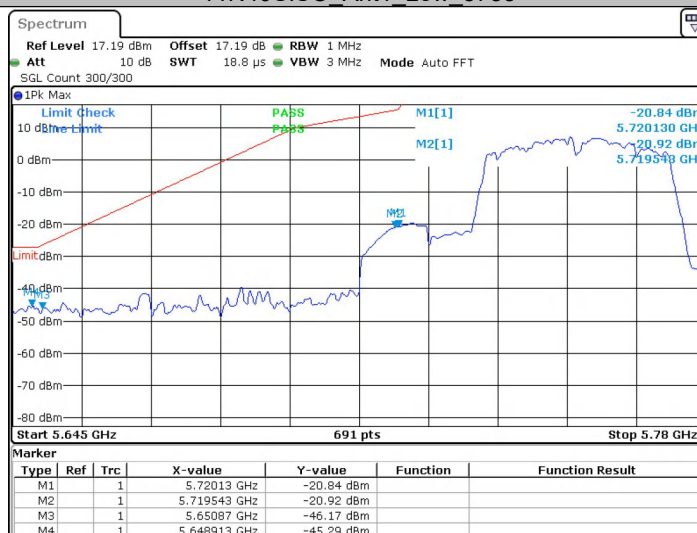
Date: 23 APR 2026 20:49:00

11N20ISO Ant1_High_5825



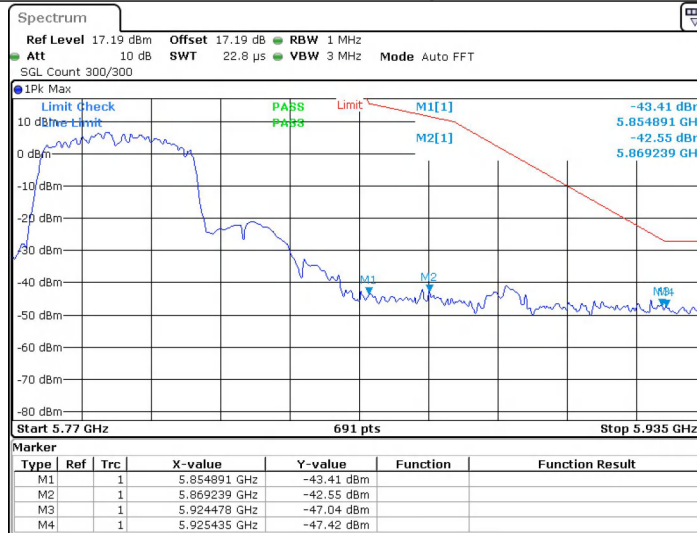
Date: 23 APR 2026 20:51:42

11N40ISO Ant1_Low_5755



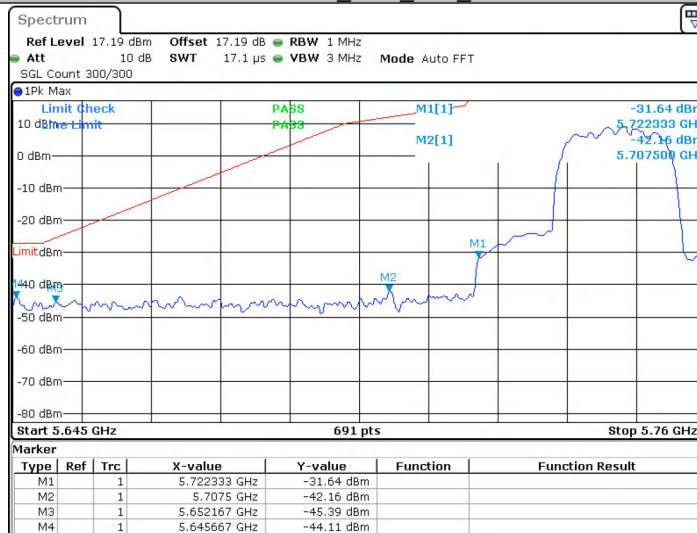
Date: 23 APR 2026 21:08:27

11N40SISO_Ant1_High_5795



Date: 23.APR.2026 21:11:33

11AC20SISO_Ant1_Low_5745



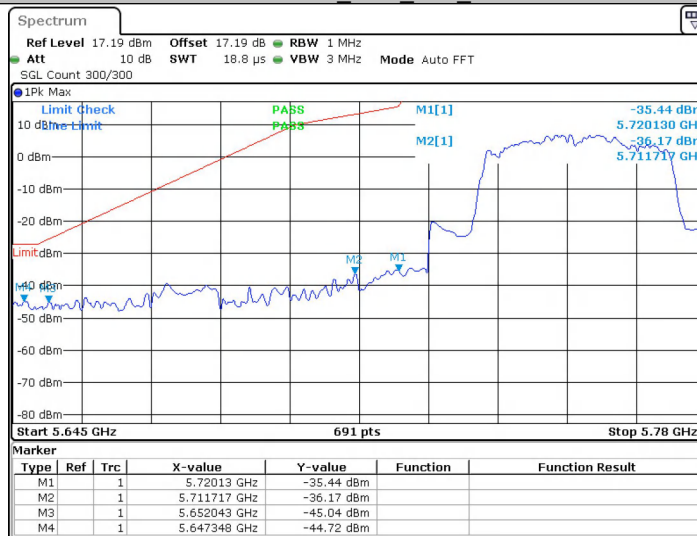
Date: 23.APR.2026 21:36:04

11AC20SISO_Ant1_High_5825



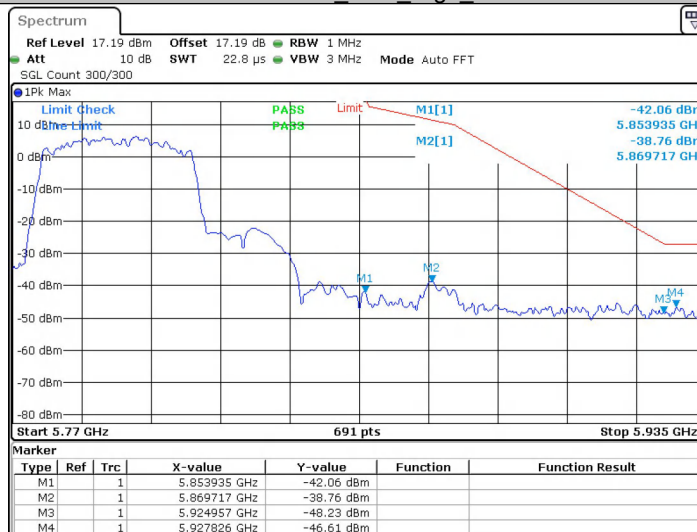
Date: 23 APR 2026 21:39:33

11AC40SISO_Ant1_Low 5755



Date: 23 APR 2026 21:56:15

11AC40SISO_Ant1_High 5795



Date: 23 APR 2026 21:57:57

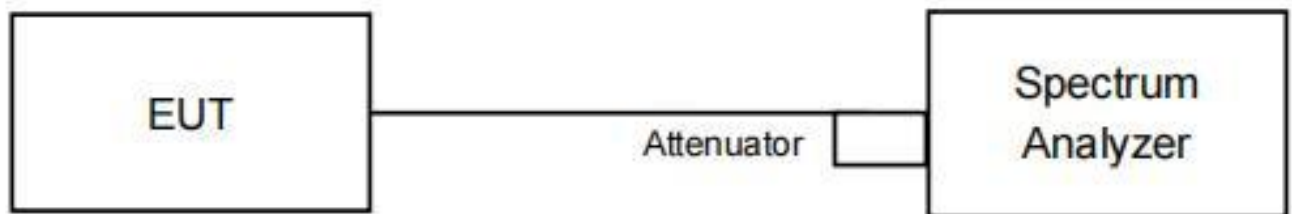
Appendix E): Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2020) Section 6.8

Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of -30 degrees to 50 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 Diagram



Measurement Data

Frequency Stability Versus Temp.			
Operating Frequency: 5240 MHz			
Temp	Voltage	Measured Frequency	Limit
(°C)		(MHz)	(MHz)
50		5240.11	5150-5250
40		5240.12	5150-5250
30		5240.35	5150-5250
20		5240.11	5150-5250
10		5240.17	5150-5250
0		5240.51	5150-5250
-10		5240.21	5150-5250
-30		5240.31	5150-5250

Frequency Stability Versus Temp.			
Operating Frequency: 5240 MHz			
Temp.	Voltage	Measured Frequency	Limit
		(MHz)	(MHz)
TN	VL	5240.11	5150-5250
	VN	5240.12	5150-5250
	VH	5240.13	5150-5250

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

Appendix F): Antenna Requirement

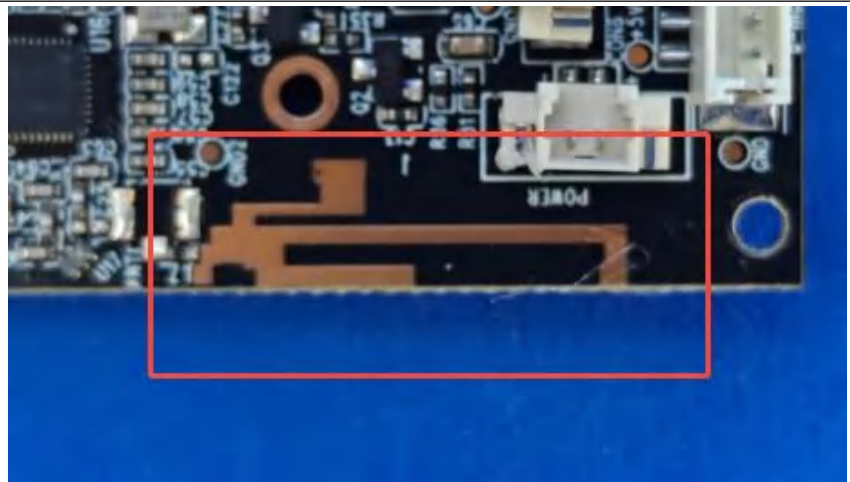
15.203 requirement:

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

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is PCB antenna.

The connection/connection type between the antenna to the EUT's antenna port is:
permanently attachment

This is either permanently attachment or a unique coupling that satisfies the requirement.

Appendix G): Operation in the absence of information to the transmit**15.407(c) requirement:**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)

Appendix H): AC Power Line Conducted Emission

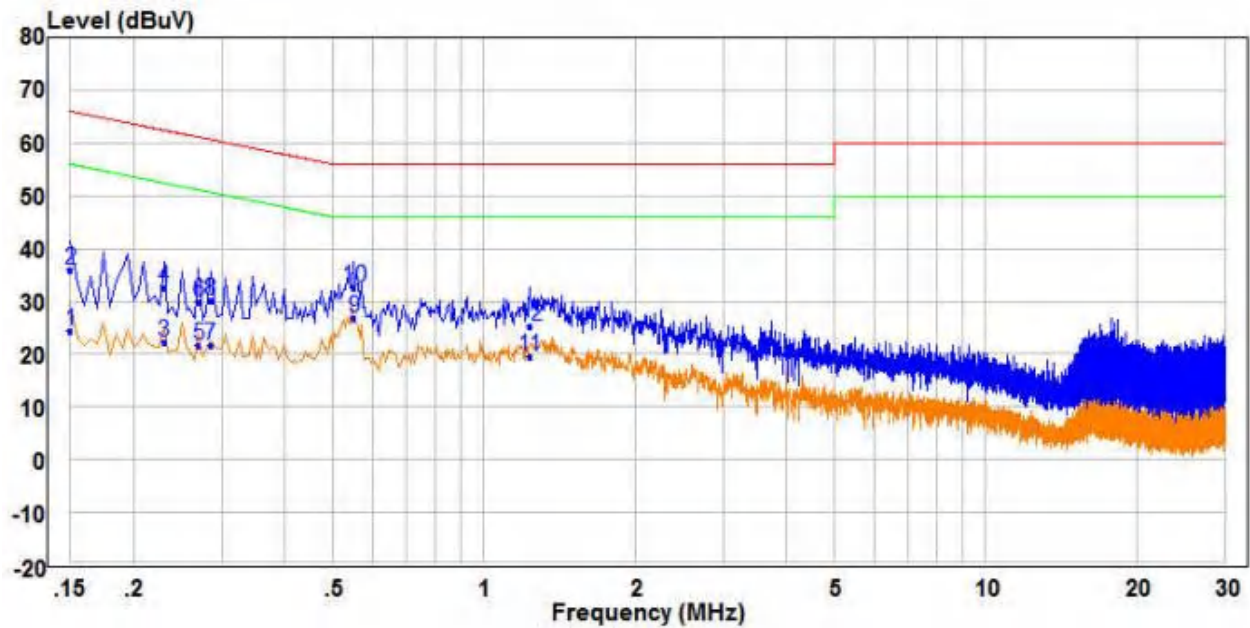
Test Procedure:	Test frequency range :150KHz-30MHz 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.														
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

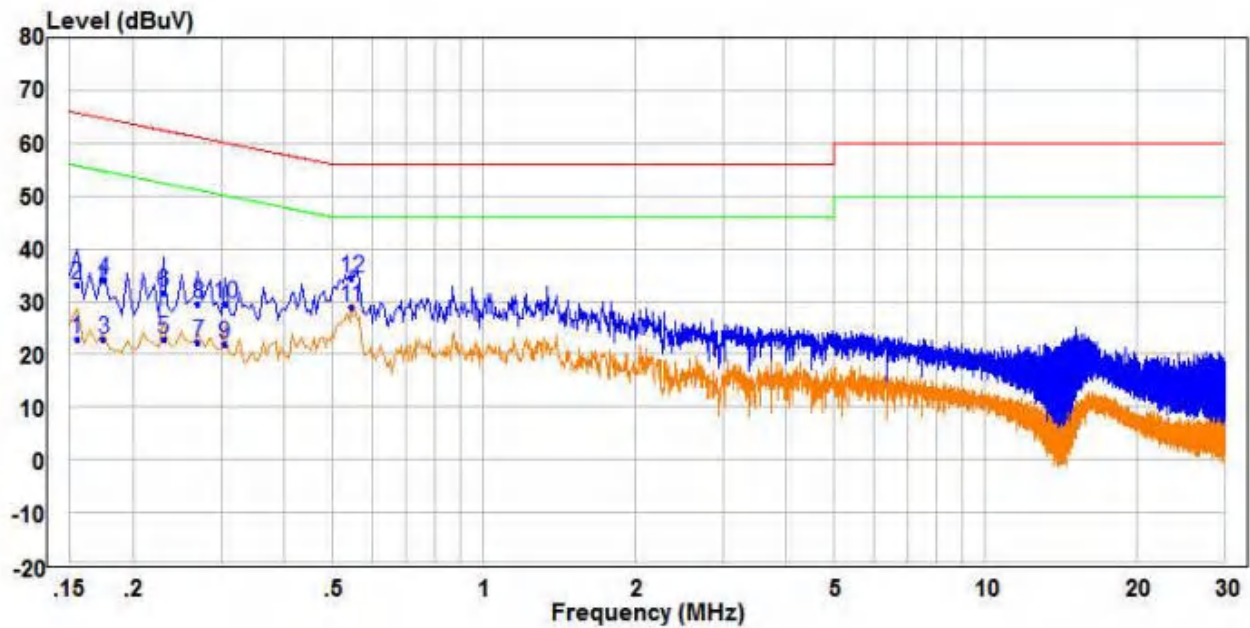
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.150	14.79	9.70	24.49	56.00	-31.51	Average	Line
2	0.150	26.32	9.70	36.02	66.00	-29.98	QP	Line
3	0.230	12.73	9.57	22.30	52.45	-30.15	Average	Line
4	0.230	23.04	9.57	32.61	62.45	-29.84	QP	Line
5	0.270	12.19	9.52	21.71	51.12	-29.41	Average	Line
6	0.270	20.20	9.52	29.72	61.12	-31.40	QP	Line
7	0.285	12.27	9.51	21.78	50.67	-28.89	Average	Line
8	0.285	20.64	9.51	30.15	60.67	-30.52	QP	Line
9 PP	0.550	17.10	9.75	26.85	46.00	-19.15	Average	Line
10 QP	0.550	22.82	9.75	32.57	56.00	-23.43	QP	Line
11	1.235	9.30	10.29	19.59	46.00	-26.41	Average	Line
12	1.235	14.89	10.29	25.18	56.00	-30.82	QP	Line

Neutral line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.155	13.03	9.69	22.72	55.73	-33.01	Average	Neutral
2	0.155	23.58	9.69	33.27	65.73	-32.46	QP	Neutral
3	0.175	13.21	9.65	22.86	54.72	-31.86	Average	Neutral
4	0.175	24.48	9.65	34.13	64.72	-30.59	QP	Neutral
5	0.230	13.28	9.56	22.84	52.45	-29.61	Average	Neutral
6	0.230	22.19	9.56	31.75	62.45	-30.70	QP	Neutral
7	0.270	12.69	9.51	22.20	51.12	-28.92	Average	Neutral
8	0.270	20.17	9.51	29.68	61.12	-31.44	QP	Neutral
9	0.305	12.50	9.49	21.99	50.11	-28.12	Average	Neutral
10	0.305	20.04	9.49	29.53	60.11	-30.58	QP	Neutral
11 PP	0.545	19.06	9.75	28.81	46.00	-17.19	Average	Neutral
12 QP	0.545	24.70	9.75	34.45	56.00	-21.55	QP	Neutral

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. The 6Mbps of rate of 802.11A_5240 is the worst case, only the worst data recorded in the report.

Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	Below 1GHz test procedure as below: - The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Above 1GHz test procedure as below: - Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre). - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.				
Limit:	Frequency	Limit (dB μ V/m @3cm)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	

Test plot as follows:

Worse case mode:		802.11a		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.99	-3.63	55.36	74	-18.64	peak	H	1.5	143
5150.00	44.15	-3.63	40.52	54	-13.48	AVG	H	1.5	210
5150.00	60.01	-3.63	56.38	74	-17.62	peak	V	1.5	253
5150.00	46.36	-3.63	42.73	54	-11.27	AVG	V	1.5	316

Worse case mode:		802.11a		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.66	-3.59	55.07	74	-18.93	peak	H	1.5	123
5350.00	44.30	-3.59	40.71	54	-13.29	AVG	H	1.5	61
5350.00	59.65	-3.59	56.06	74	-17.94	peak	V	1.5	55
5350.00	46.24	-3.59	42.65	54	-11.35	AVG	V	1.5	23

Worse case mode:		802.11a		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	58.00	-3.44	54.56	74	-19.44	peak	H	1.5	252
5470.00	44.08	-3.44	40.64	54	-13.36	AVG	H	1.5	73
5470.00	57.64	-3.44	54.20	74	-19.80	peak	V	1.5	310
5470.00	46.40	-3.44	42.96	54	-11.04	AVG	V	1.5	341

Worse case mode:		802.11a		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	59.12	-3.42	55.70	74	-18.30	peak	H	1.5	32
5850.00	44.24	-3.42	40.82	54	-13.18	AVG	H	1.5	341
5850.00	59.69	-3.42	56.27	74	-17.73	peak	V	1.5	360
5850.00	46.85	-3.42	43.43	54	-10.57	AVG	V	1.5	279

Worse case mode:		802.11n(HT20)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	59.02	-3.63	55.39	74	-18.61	peak	H	1.5	315
5150.00	44.71	-3.63	41.08	54	-12.92	AVG	H	1.5	181
5150.00	59.66	-3.63	56.03	74	-17.97	peak	V	1.5	318
5150.00	46.81	-3.63	43.18	54	-10.82	AVG	V	1.5	303

Worse case mode:		802.11n(HT20)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5350.00	59.02	-3.59	55.43	74	-18.57	peak	H	1.5	219
5350.00	44.04	-3.59	40.45	54	-13.55	AVG	H	1.5	311
5350.00	60.12	-3.59	56.53	74	-17.47	peak	V	1.5	31
5350.00	46.36	-3.59	42.77	54	-11.23	AVG	V	1.5	126

Worse case mode:		802.11n(HT20)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5470.00	57.89	-3.44	54.45	74	-19.55	peak	H	1.5	184
5470.00	43.93	-3.44	40.49	54	-13.51	AVG	H	1.5	117
5470.00	57.98	-3.44	54.54	74	-19.46	peak	V	1.5	271
5470.00	46.33	-3.44	42.89	54	-11.11	AVG	V	1.5	60

Worse case mode:		802.11n(HT20)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5850.00	58.47	-3.42	55.05	74	-18.95	peak	H	1.5	144
5850.00	44.11	-3.42	40.69	54	-13.31	AVG	H	1.5	223
5850.00	59.43	-3.42	56.01	74	-17.99	peak	V	1.5	263
5850.00	46.71	-3.42	43.29	54	-10.71	AVG	V	1.5	208

Worse case mode:		802.11n(HT40)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5150.00	58.59	-3.63	54.96	74	-19.04	peak	H	1.5	350
5150.00	44.10	-3.63	40.47	54	-13.53	AVG	H	1.5	308
5150.00	59.94	-3.63	56.31	74	-17.69	peak	V	1.5	9
5150.00	46.64	-3.63	43.01	54	-10.99	AVG	V	1.5	198

Worse case mode:		802.11n(HT40)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5350.00	58.37	-3.59	54.78	74	-19.22	peak	H	1.5	291
5350.00	44.05	-3.59	40.46	54	-13.54	AVG	H	1.5	327
5350.00	59.63	-3.59	56.04	74	-17.96	peak	V	1.5	247
5350.00	46.77	-3.59	43.18	54	-10.82	AVG	V	1.5	324

Worse case mode:		802.11n(HT40)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5470.00	58.30	-3.44	54.86	74	-19.14	peak	H	1.5	224
5470.00	43.93	-3.44	40.49	54	-13.51	AVG	H	1.5	170
5470.00	58.13	-3.44	54.69	74	-19.31	peak	V	1.5	165
5470.00	45.91	-3.44	42.47	54	-11.53	AVG	V	1.5	317

Worse case mode:		802.11n(HT40)		Test channel:		159			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5850.00	58.38	-3.42	54.96	74	-19.04	peak	H	1.5	296
5850.00	44.19	-3.42	40.77	54	-13.23	AVG	H	1.5	277
5850.00	59.86	-3.42	56.44	74	-17.56	peak	V	1.5	277
5850.00	46.64	-3.42	43.22	54	-10.78	AVG	V	1.5	109

Worse case mode:		802.11ac(VHT20)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5150.00	58.77	-3.63	55.14	74	-18.86	peak	H	1.5	144
5150.00	44.69	-3.63	41.06	54	-12.94	AVG	H	1.5	17
5150.00	59.98	-3.63	56.35	74	-17.65	peak	V	1.5	239
5150.00	46.26	-3.63	42.63	54	-11.37	AVG	V	1.5	256

Worse case mode:		802.11ac(VHT20)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5350.00	58.83	-3.59	55.24	74	-18.76	peak	H	1.5	133
5350.00	44.62	-3.59	41.03	54	-12.97	AVG	H	1.5	216
5350.00	59.43	-3.59	55.84	74	-18.16	peak	V	1.5	32
5350.00	46.18	-3.59	42.59	54	-11.41	AVG	V	1.5	312

Worse case mode:		802.11ac(VHT20)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5470.00	58.20	-3.44	54.76	74	-19.24	peak	H	1.5	354
5470.00	44.44	-3.44	41.00	54	-13.00	AVG	H	1.5	198
5470.00	57.64	-3.44	54.20	74	-19.80	peak	V	1.5	185
5470.00	45.49	-3.44	42.05	54	-11.95	AVG	V	1.5	298

Worse case mode:		802.11ac(VHT20)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.50	-3.42	55.08	74	-18.92	peak	H	1.5	345
5850.00	44.95	-3.42	41.53	54	-12.47	AVG	H	1.5	117
5850.00	59.51	-3.42	56.09	74	-17.91	peak	V	1.5	47
5850.00	46.47	-3.42	43.05	54	-10.95	AVG	V	1.5	116

Worse case mode:		802.11ac(VHT40)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.31	-3.63	54.68	74	-19.32	peak	H	1.5	249
5150.00	44.64	-3.63	41.01	54	-12.99	AVG	H	1.5	221
5150.00	60.10	-3.63	56.47	74	-17.53	peak	V	1.5	133
5150.00	46.44	-3.63	42.81	54	-11.19	AVG	V	1.5	140

Worse case mode:		802.11ac(VHT40)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.78	-3.59	55.19	74	-18.81	peak	H	1.5	337
5350.00	44.51	-3.59	40.92	54	-13.08	AVG	H	1.5	160
5350.00	59.81	-3.59	56.22	74	-17.78	peak	V	1.5	184
5350.00	46.49	-3.59	42.90	54	-11.10	AVG	V	1.5	162

Worse case mode:		802.11ac(VHT40)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	57.84	-3.44	54.40	74	-19.60	peak	H	1.5	44
5470.00	43.77	-3.44	40.33	54	-13.67	AVG	H	1.5	203
5470.00	57.98	-3.44	54.54	74	-19.46	peak	V	1.5	89
5470.00	45.60	-3.44	42.16	54	-11.84	AVG	V	1.5	256

Worse case mode:		802.11ac(VHT40)		Test channel:		159			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
5850.00	58.40	-3.42	54.98	74	-19.02	peak	H	1.5	316
5850.00	44.32	-3.42	40.90	54	-13.10	AVG	H	1.5	276
5850.00	59.41	-3.42	55.99	74	-18.01	peak	V	1.5	318
5850.00	46.08	-3.42	42.66	54	-11.34	AVG	V	1.5	265

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

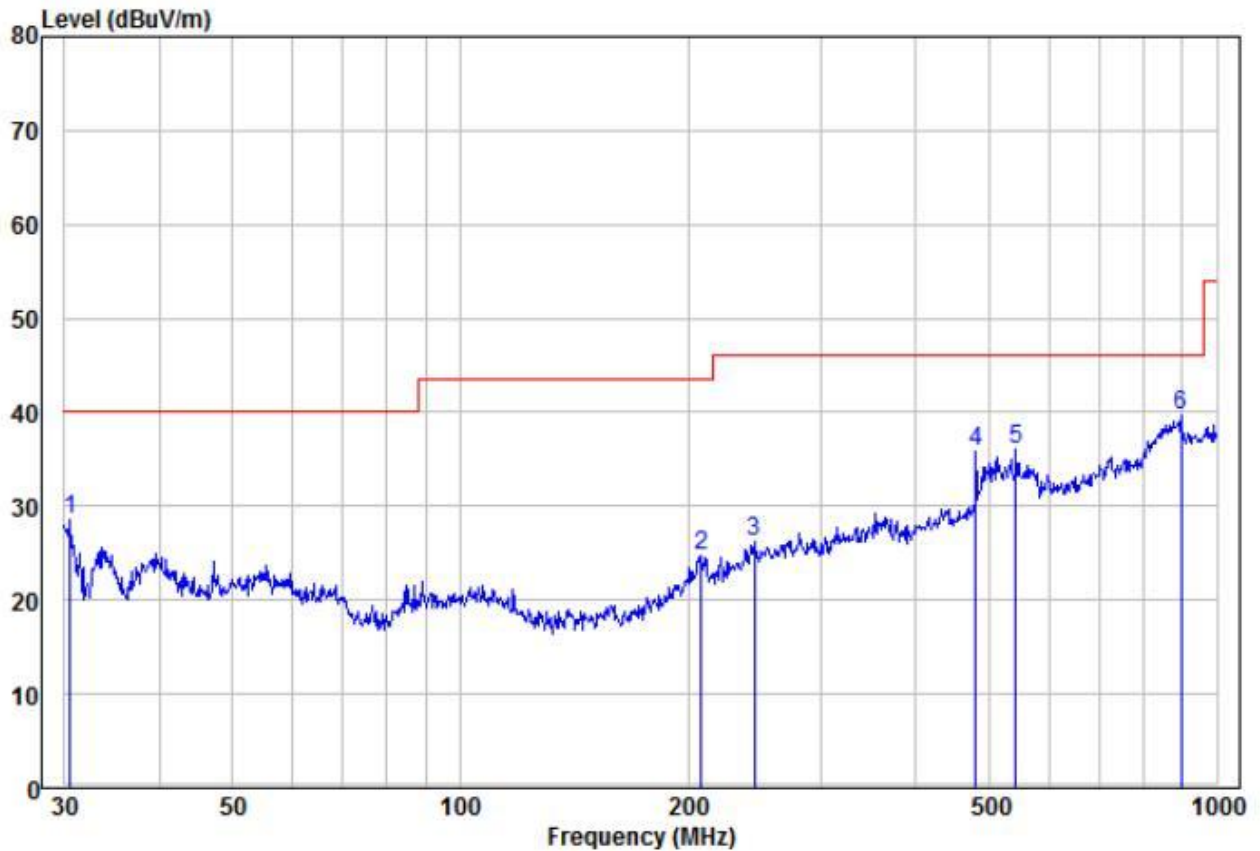
Appendix J): Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:					
Below 1GHz test procedure as below: a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. Above 1GHz test procedure as below: g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre) h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/cm)	Remark	Measurement distance (cm)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				
Test result: PASS					

Test Data:

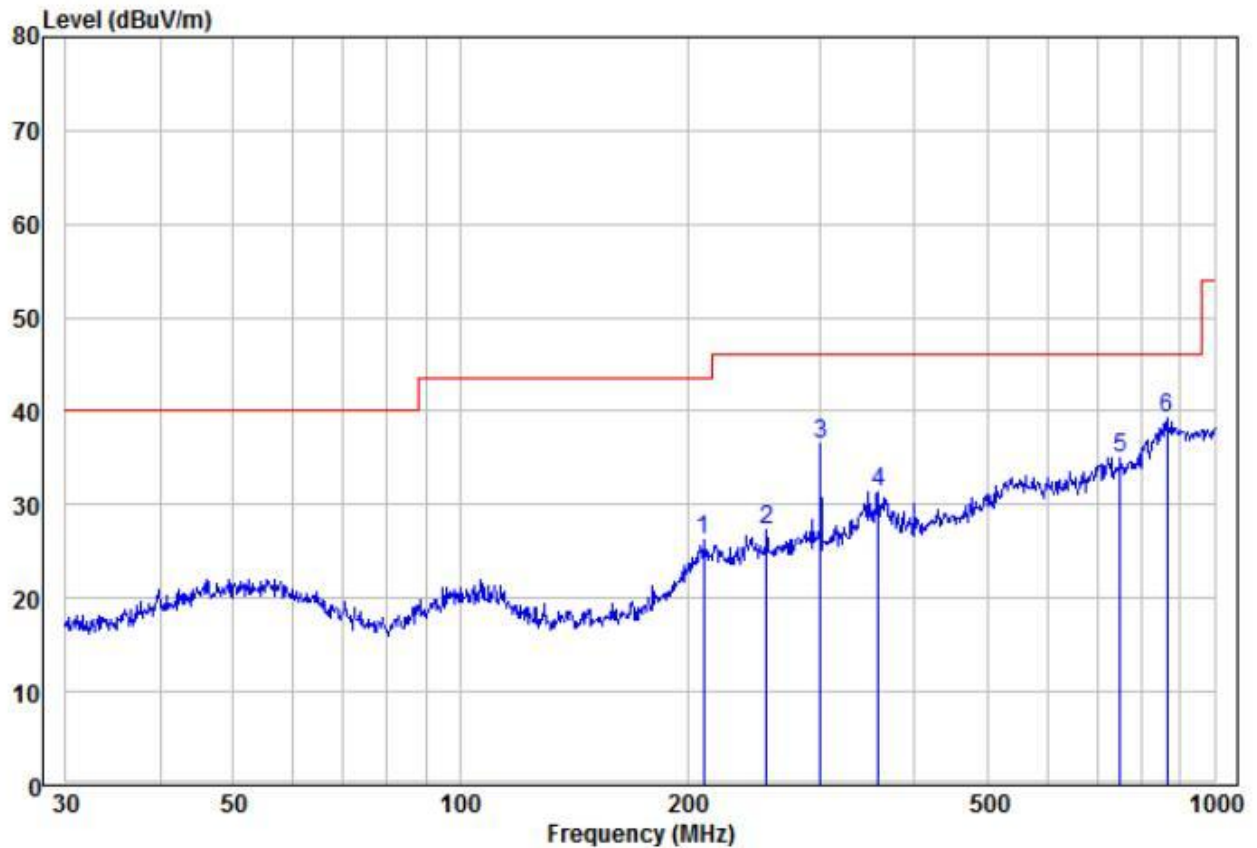
Radiated Emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting (802.11a 36CH)	Vertical



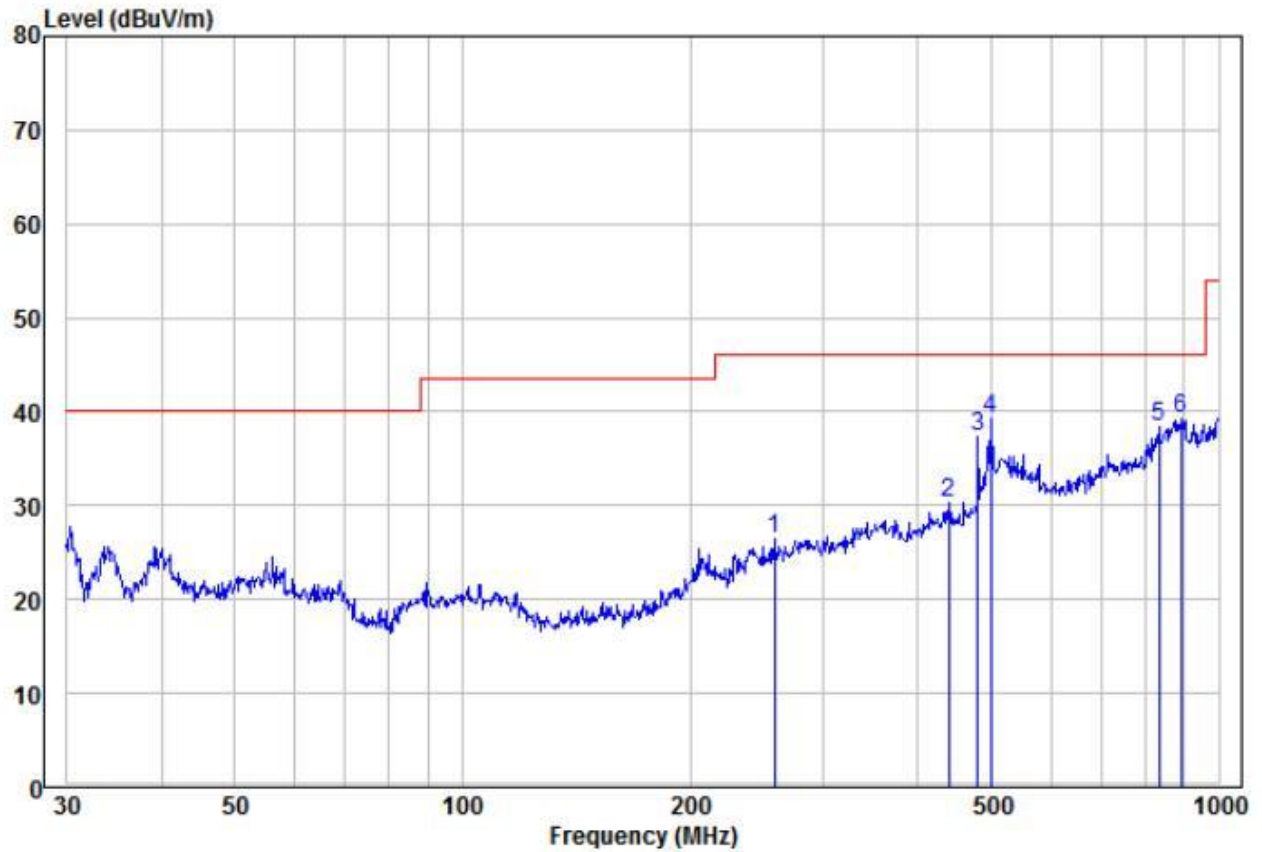
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	30.53	20.41	8.19	28.60	40.00	-11.40	Peak	VERTICAL
2	208.58	12.19	12.56	24.75	43.50	-18.75	Peak	VERTICAL
3	245.09	10.65	15.58	26.23	46.00	-19.77	Peak	VERTICAL
4	480.53	15.56	20.34	35.90	46.00	-10.10	Peak	VERTICAL
5	543.27	14.50	21.52	36.02	46.00	-9.98	Peak	VERTICAL
6 pp	897.00	10.56	29.05	39.61	46.00	-6.39	Peak	VERTICAL

Test mode:	Transmitting (802.11a 36CH)	Horizontal
------------	-----------------------------	------------



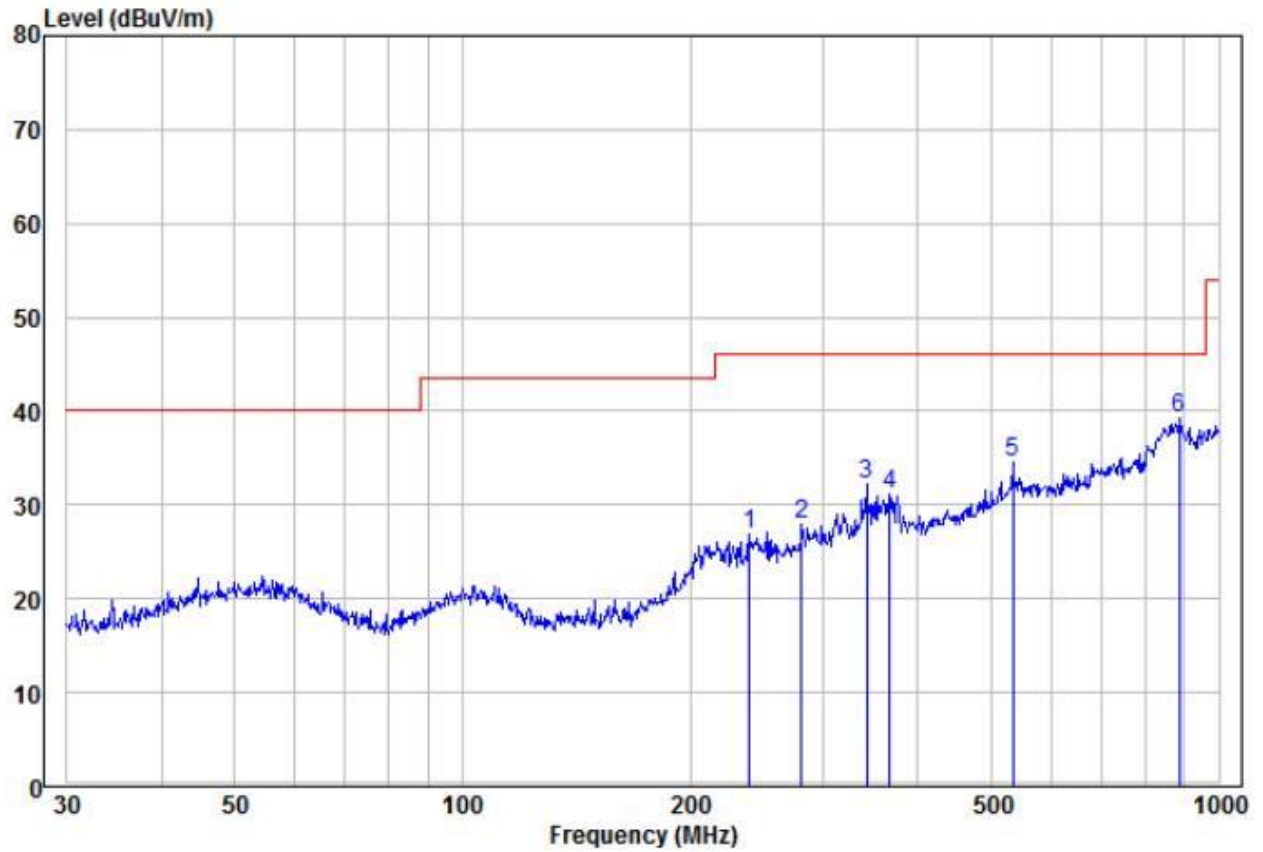
	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	210.05	13.56	12.60	26.16	43.50	-17.34	Peak	HORIZONTAL
2	254.73	11.40	15.82	27.22	46.00	-18.78	Peak	HORIZONTAL
3	300.37	19.58	16.88	36.46	46.00	-9.54	Peak	HORIZONTAL
4	357.93	13.01	18.33	31.34	46.00	-14.66	Peak	HORIZONTAL
5	750.11	10.29	24.80	35.09	46.00	-10.91	Peak	HORIZONTAL
6 pp	866.09	10.46	28.73	39.19	46.00	-6.81	Peak	HORIZONTAL

30MHz~1GHz		
Test mode:	Transmitting (802.11a 149CH)	Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	258.33	10.44	15.91	26.35	46.00	-19.65	Peak	VERTICAL
2	440.20	11.12	19.21	30.33	46.00	-15.67	Peak	VERTICAL
3	480.53	17.07	20.34	37.41	46.00	-8.59	Peak	VERTICAL
4	499.42	18.41	20.91	39.32	46.00	-6.68	Peak	VERTICAL
5	833.32	10.29	28.00	38.29	46.00	-7.71	Peak	VERTICAL
6 pp	890.73	10.18	29.15	39.33	46.00	-6.67	Peak	VERTICAL

Test mode:	Transmitting (802.11a 149CH)	Horizontal
------------	------------------------------	------------



	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	239.99	11.63	15.24	26.87	46.00	-19.13 Peak	HORIZONTAL
2	281.01	11.46	16.43	27.89	46.00	-18.11 Peak	HORIZONTAL
3	341.98	14.27	17.93	32.20	46.00	-13.80 Peak	HORIZONTAL
4	366.82	12.54	18.56	31.10	46.00	-14.90 Peak	HORIZONTAL
5	533.83	13.17	21.39	34.56	46.00	-11.44 Peak	HORIZONTAL
6 pp	887.61	10.16	29.09	39.25	46.00	-6.75 Peak	HORIZONTAL

Transmitter Emission above 1GHz

Test mode:	802.11a(6Mbps)			Test channel:		36 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10360	52.68	2.26	54.94	68.2	-13.26	peak	H	1.5	271
10360	37.58	2.26	39.84	54	-14.16	AVG	H	1.5	357
15540	51.01	3.75	54.76	68.2	-13.44	peak	H	1.5	114
15540	38.96	3.75	42.71	54	-11.29	AVG	H	1.5	248
10360	55.55	2.26	57.81	68.2	-10.39	peak	V	1.5	85
10360	38.49	2.26	40.75	54	-13.25	AVG	V	1.5	68
15540	50.35	3.75	54.10	68.2	-14.10	peak	V	1.5	92
15540	36.40	3.75	40.15	54	-13.85	AVG	V	1.5	61

Test mode:	802.11a(6Mbps)			Test channel:		48 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10480	51.44	2.31	53.75	68.2	-14.45	peak	H	1.5	81
10480	37.13	2.31	39.44	54	-14.56	AVG	H	1.5	7
15720	49.98	3.79	53.77	68.2	-14.43	peak	H	1.5	11
15720	36.53	3.79	40.32	54	-13.68	AVG	H	1.5	82
10480	52.53	2.31	54.84	68.2	-13.36	peak	V	1.5	217
10480	37.24	2.31	39.55	54	-14.45	AVG	V	1.5	109
15720	48.65	3.79	52.44	68.2	-15.76	peak	V	1.5	81
15720	35.24	3.79	39.03	54	-14.97	AVG	V	1.5	91

Test mode:	802.11a(6Mbps)			Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11490	52.47	2.54	55.01	68.2	-13.19	peak	H	1.5	298
11490	38.73	2.54	41.27	54	-12.73	AVG	H	1.5	205
17235	51.15	3.94	55.09	68.2	-13.11	peak	H	1.5	64
17235	36.48	3.94	40.42	54	-13.58	AVG	H	1.5	234
11490	54.11	2.54	56.65	68.2	-11.55	peak	V	1.5	253
11490	37.07	2.54	39.61	54	-14.39	AVG	V	1.5	39
17235	49.49	3.94	53.43	68.2	-14.77	peak	V	1.5	116
17235	37.29	3.94	41.23	54	-12.77	AVG	V	1.5	164

Test mode:	802.11a(6Mbps)			Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11650	52.58	2.58	55.16	68.2	-13.04	peak	H	1.5	245
11650	38.12	2.58	40.70	54	-13.30	AVG	H	1.5	295
17475	50.98	4.02	55.00	68.2	-13.20	peak	H	1.5	303
17475	36.70	4.02	40.72	54	-13.28	AVG	H	1.5	224
11650	54.91	2.58	57.49	68.2	-10.71	peak	V	1.5	71
11650	38.38	2.58	40.96	54	-13.04	AVG	V	1.5	66
17475	49.82	4.02	53.84	68.2	-14.36	peak	V	1.5	76
17475	37.20	4.02	41.22	54	-12.78	AVG	V	1.5	318

Remark:

- 1) The 802.11a 6Mbps of rate is the worst case, only the worst data recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 40GHz, The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

7 Photographs - EUT Test Setup

7.1 Radiated Spurious Emission

9kHz~30MHz:



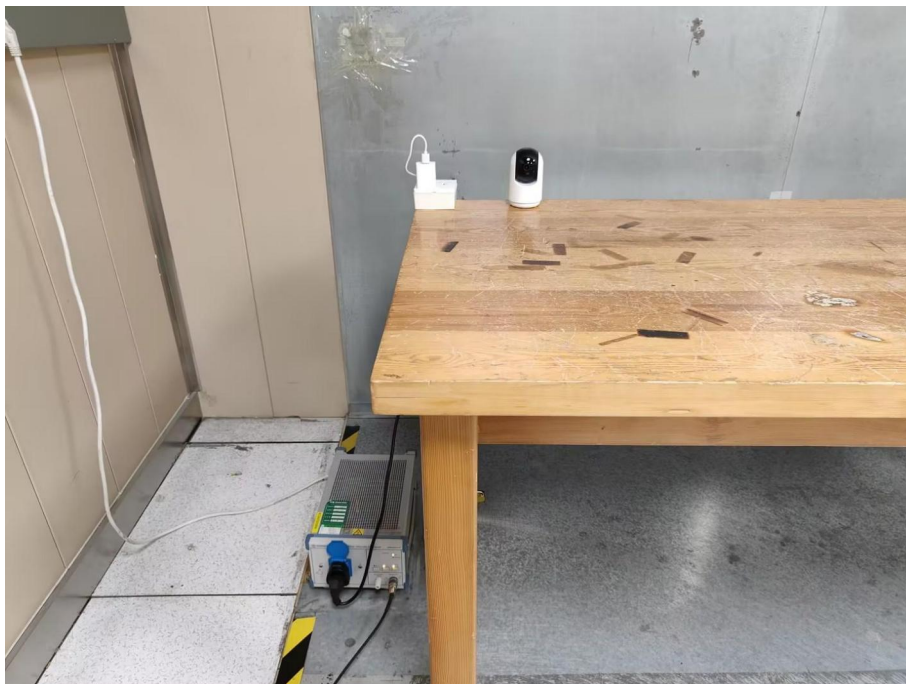
30MHz~1GHz:



Above 1GHz:



7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20260300608E-01.

*** END OF REPORT ***