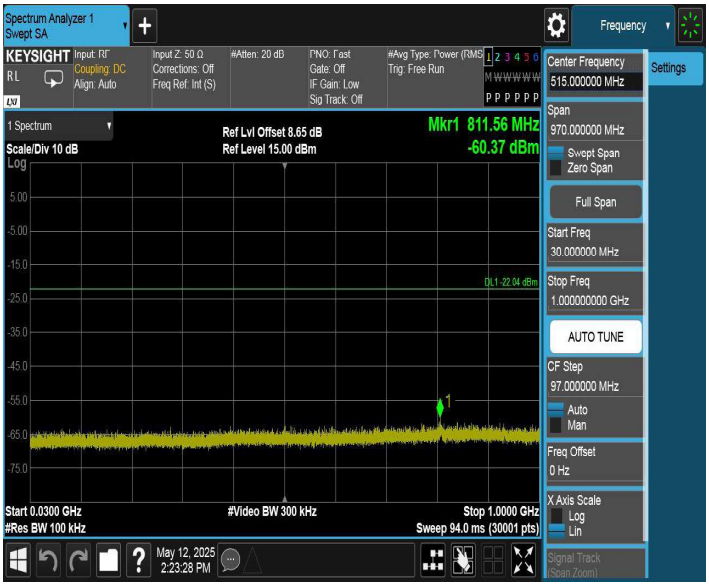
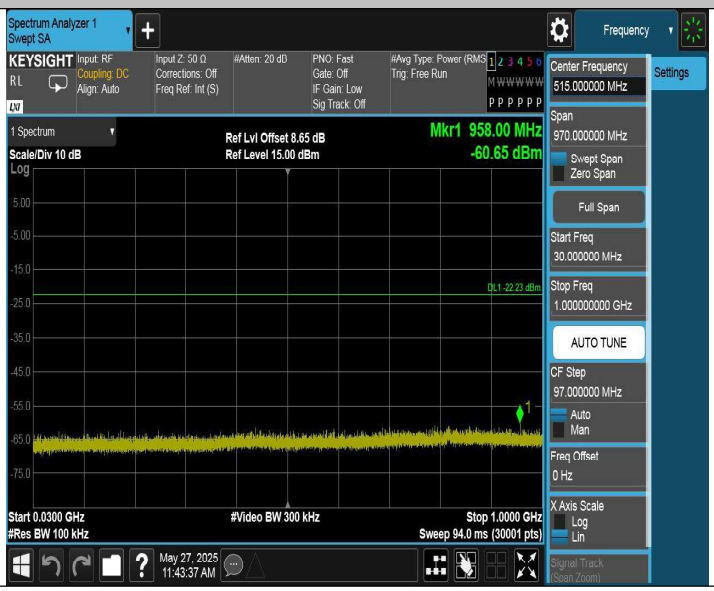
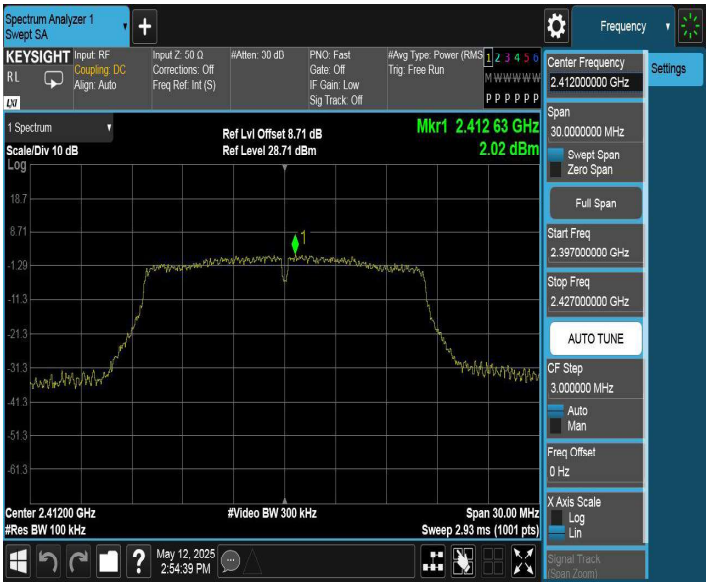
11B_Ant1_2437_30~1000


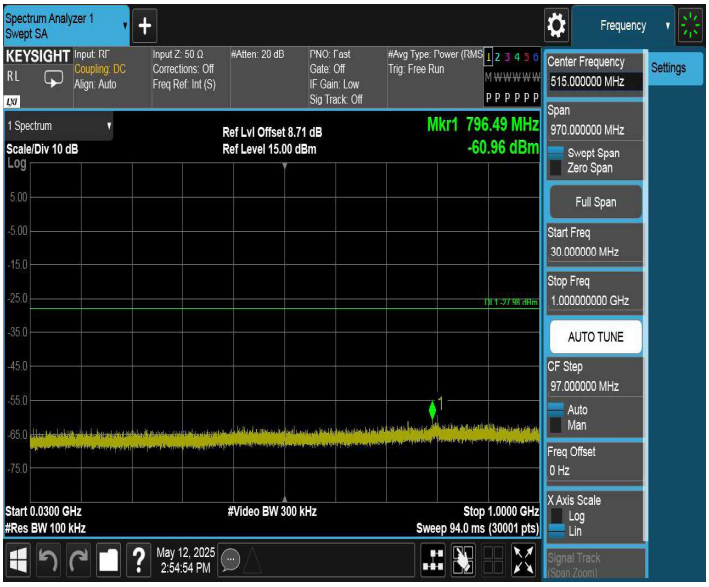
11B_Ant1_2437_1000~26500


11B_Ant1_2462_0~Reference

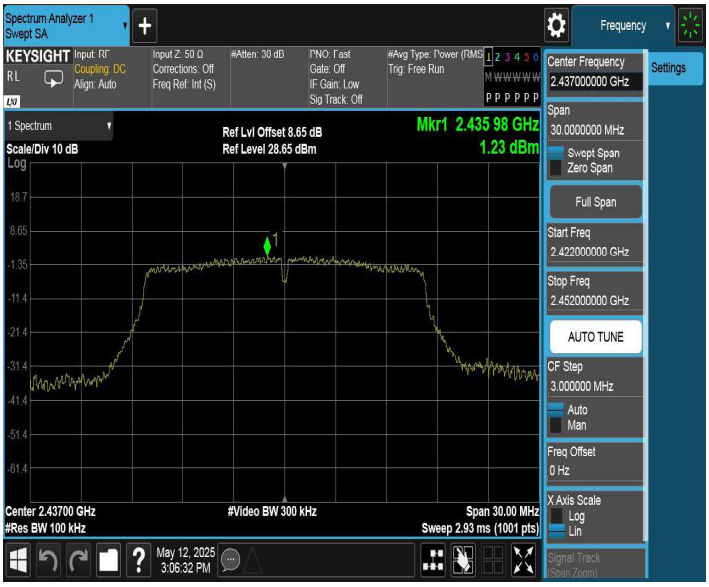
11B_Ant1_2462_30~1000


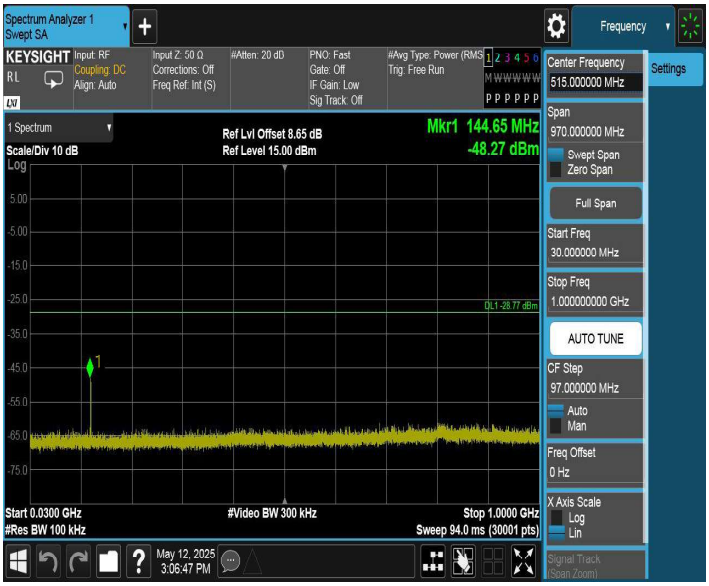
11B_Ant1_2462_1000~26500

11G_Ant1_2412_0~Reference


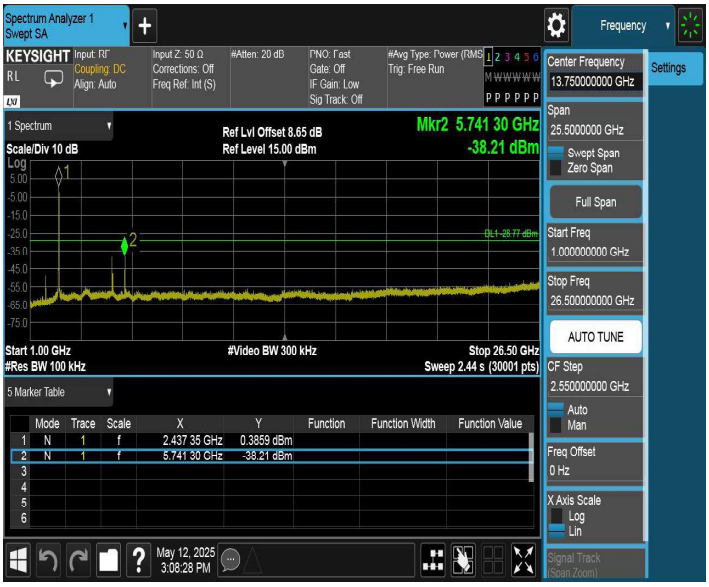
11G_Ant1_2412_30~1000


11G_Ant1_2412_1000~26500

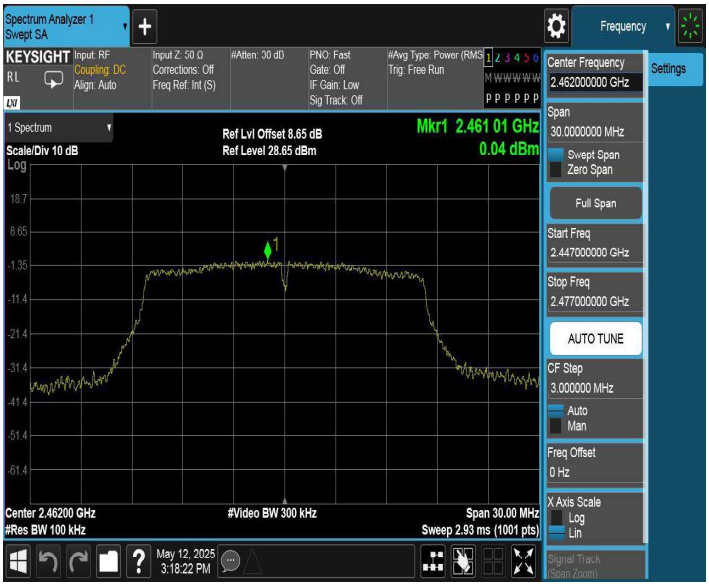

11G_Ant1_2437_0~Reference


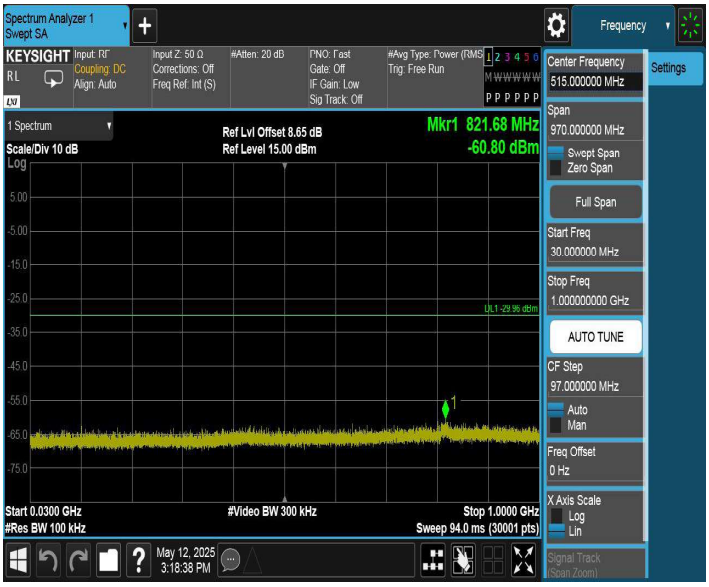
11G_Ant1_2437_30~1000


11G_Ant1_2437_1000~26500

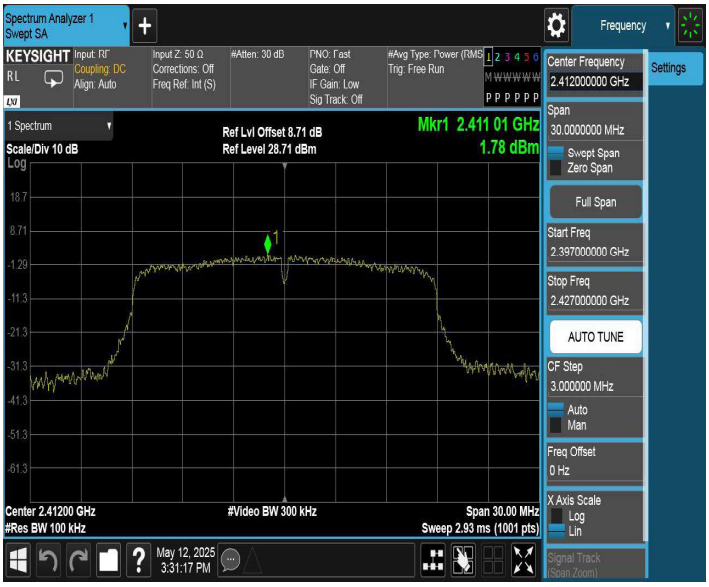


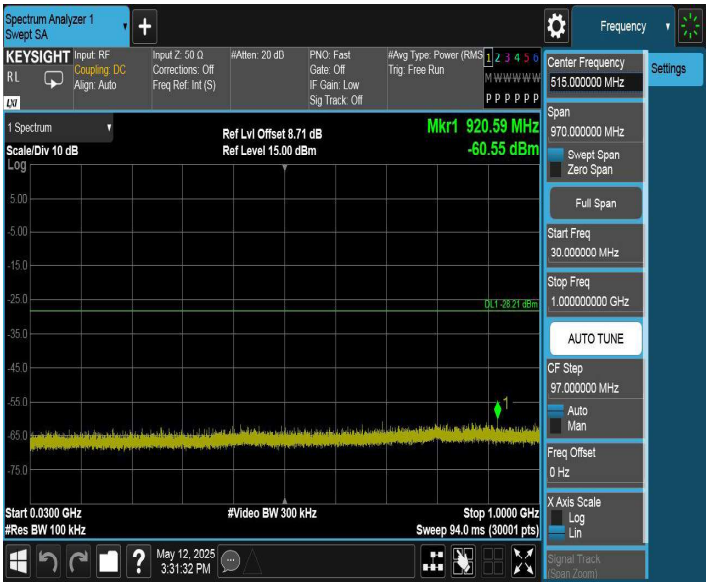
11G_Ant1_2462_0~Reference



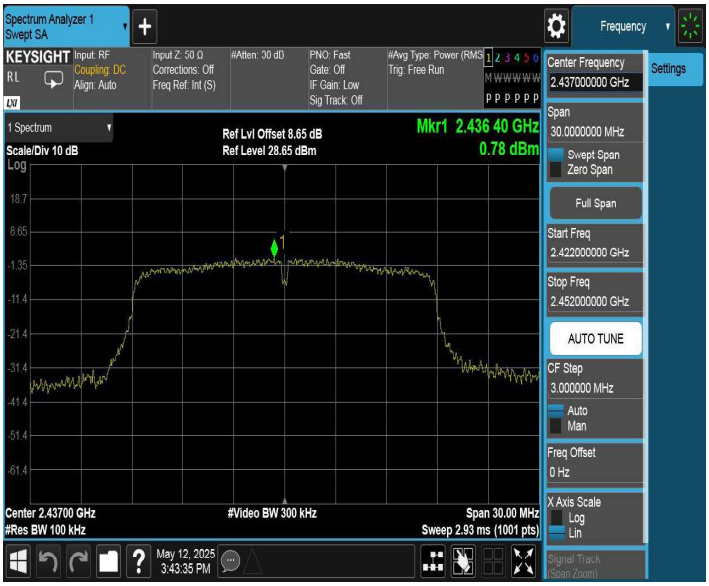
11G_Ant1_2462_30~1000


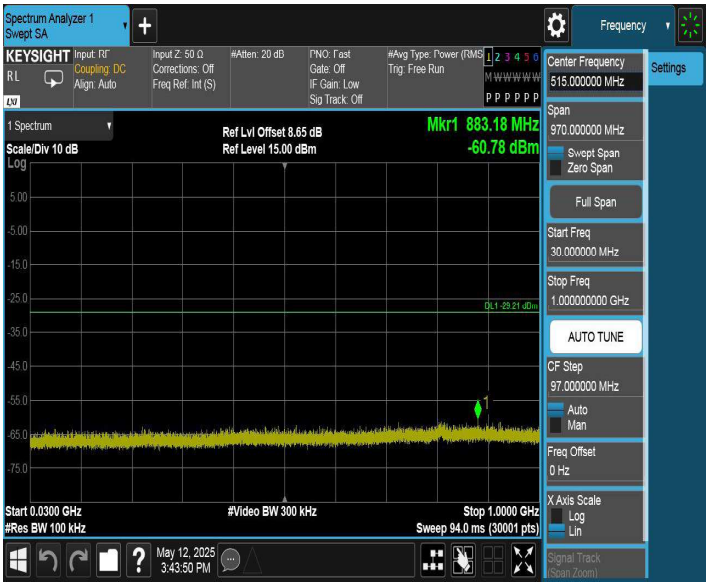
11G_Ant1_2462_1000~26500


11N20SISO_Ant1_2412_0~Reference


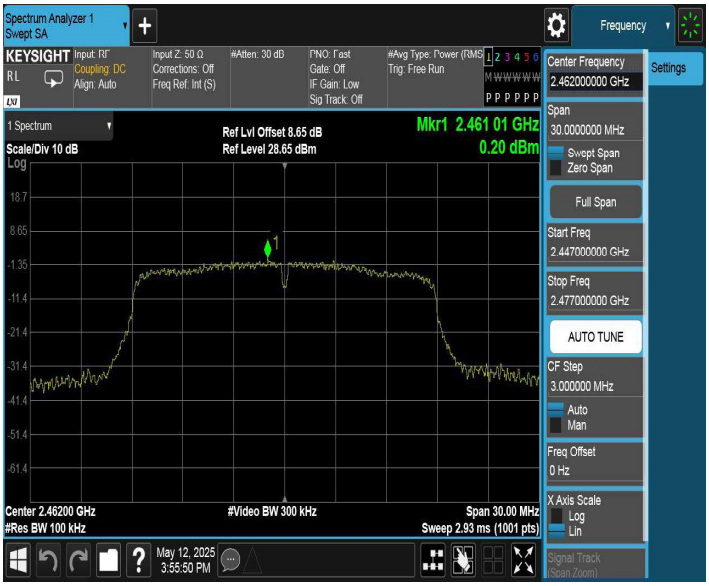
11N20SISO_Ant1_2412_30~1000


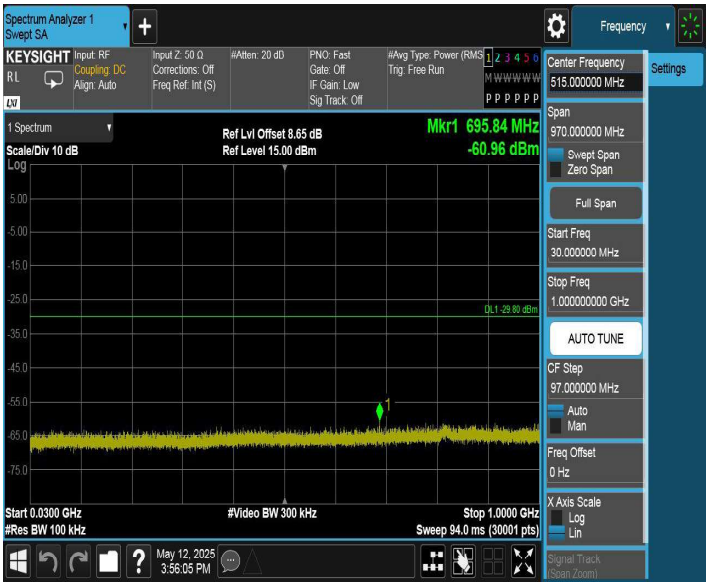
11N20SISO_Ant1_2412_1000~26500


11N20SISO_Ant1_2437_0~Reference


11N20SISO_Ant1_2437_30~1000


11N20SISO_Ant1_2437_1000~26500


11N20SISO_Ant1_2462_0~Reference


11N20SISO_Ant1_2462_30~1000


11N20SISO_Ant1_2462_1000~26500

7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10-2013 – Section 6.6.4.3

7.6.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

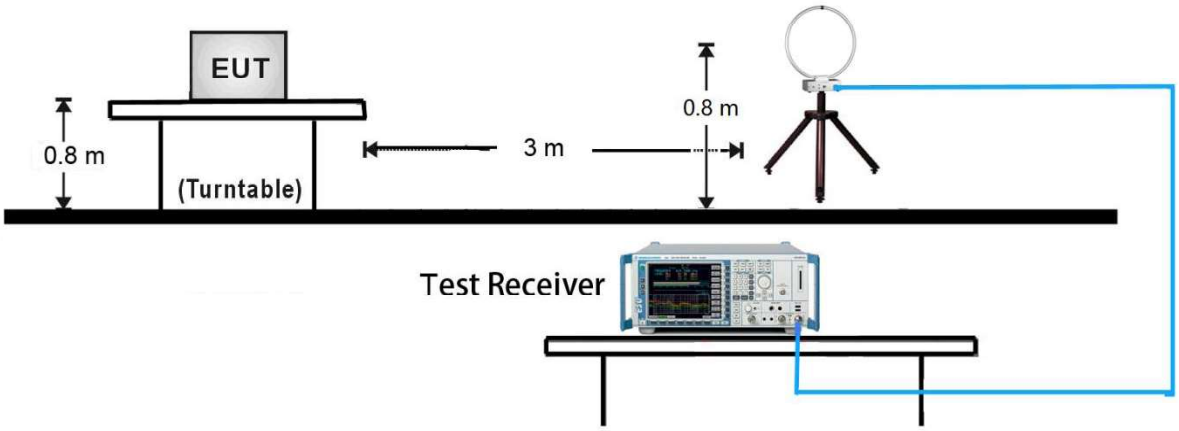
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

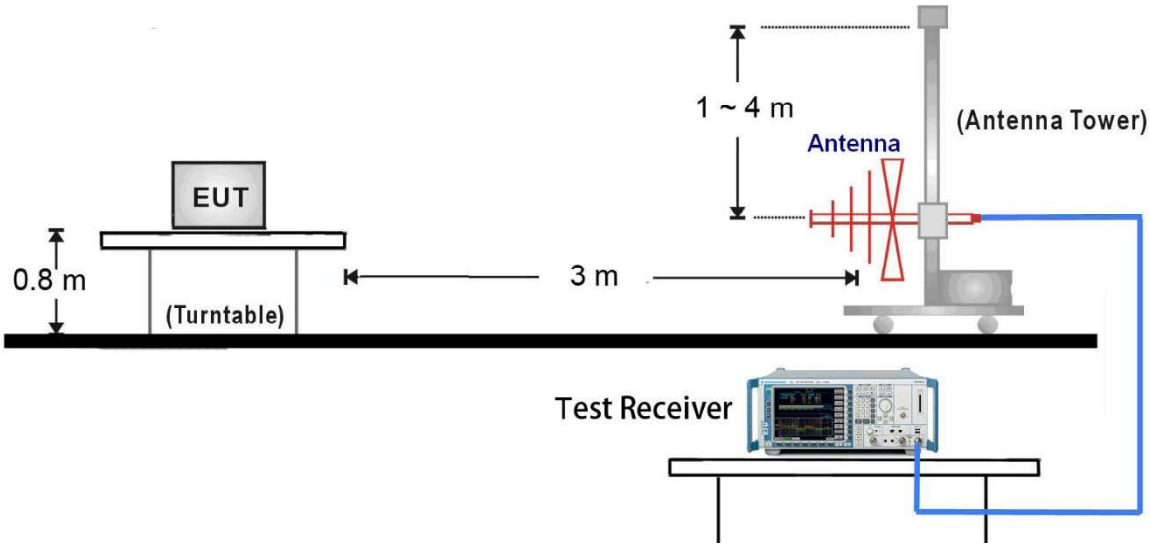
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be ≥ 2 x span / RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.6.4. Test Setup

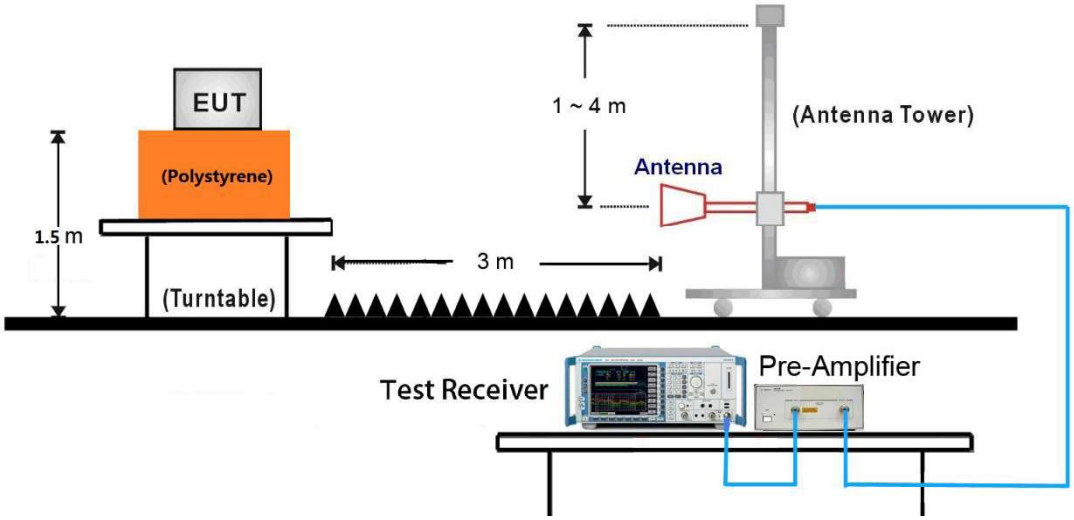
9kHz ~ 30MHz Test Setup:



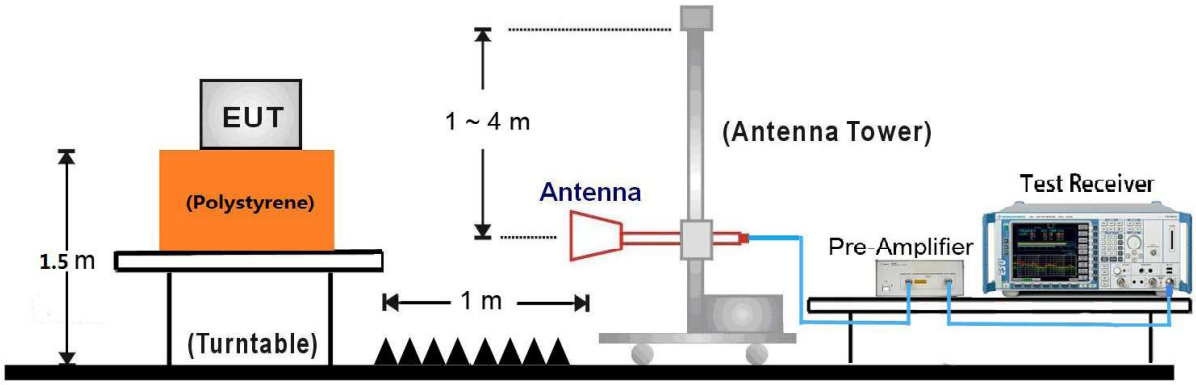
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:

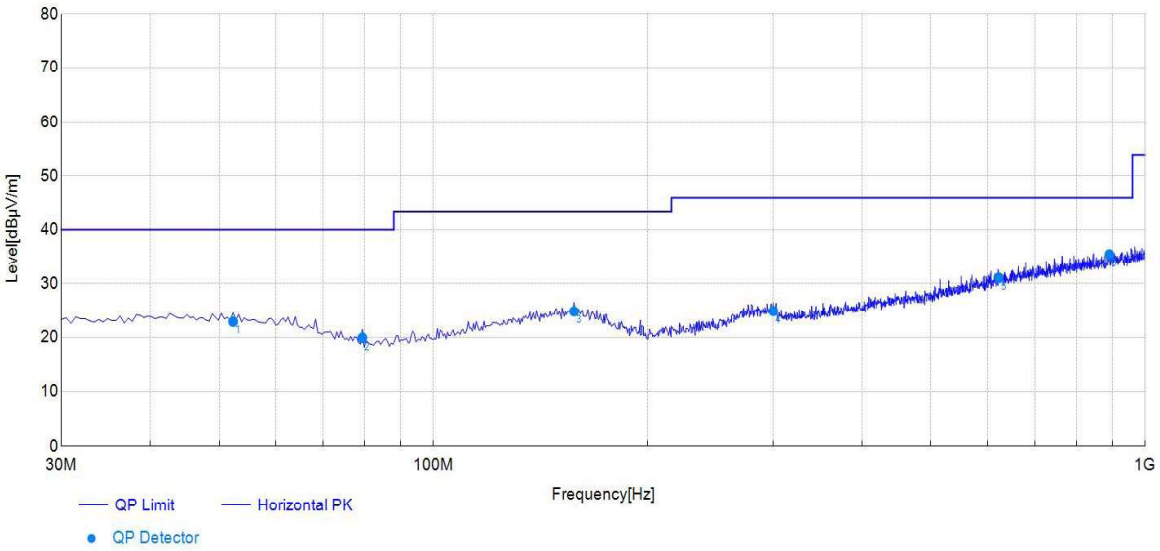


7.6.5. Test Result

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	Smart Hub WZ3	Polarity:	Horizontal
Model:	3RSH06027BWZ	Test Date:	2024-05-20
Mode:	Transmit by 802.11b at Channel 2412MHz	Voltage:	AC 120V 60HZ
Environment:	Temp: 22.7℃; Humi:58%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	52.31	14.37	9.21	22.89	40.00	16.42	100	202	Horizontal	PASS
2	79.47	10.58	9.9	19.94	40.00	19.52	100	204	Horizontal	PASS
3	157.56	15.75	9.82	24.85	43.50	17.93	100	14	Horizontal	PASS
4	300.15	15.23	10.22	24.90	46.00	20.55	100	351	Horizontal	PASS
5	622.67	21.99	9.6	31.07	46.00	14.41	100	351	Horizontal	PASS
6	890.39	25.62	10.4	35.47	46.00	9.98	100	0	Horizontal	PASS

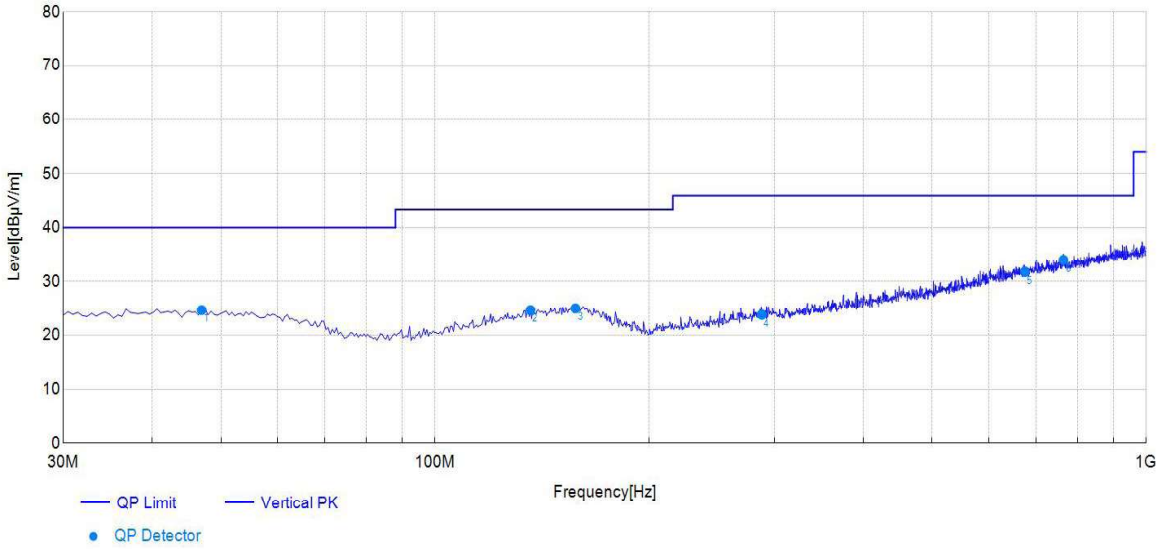
Note:

(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	Smart Hub WZ3	Polarity:	Vertical
Model:	3RSH06027BWZ	Test Date:	2025-05-16
Mode:	Transmit at Zigbee Channel 11	Voltage:	AC 120V 60Hz
Environment:	Temp: 22.7℃; Humi:37%	Engineer:	Stone Zhang



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	46.98	14.56	10.13	24.69	40.00	15.31	100	35	Vertical	PASS
2	136.22	14.87	9.82	24.69	43.50	18.81	150	211	Vertical	PASS
3	157.56	15.75	9.27	25.02	43.50	18.48	150	260	Vertical	PASS
4	288.02	14.75	9.08	23.83	46.00	22.17	100	152	Vertical	PASS
5	675.05	22.84	8.96	31.80	46.00	14.20	100	251	Vertical	PASS
6	764.78	24.06	9.97	34.03	46.00	11.97	150	162	Vertical	PASS

Note:

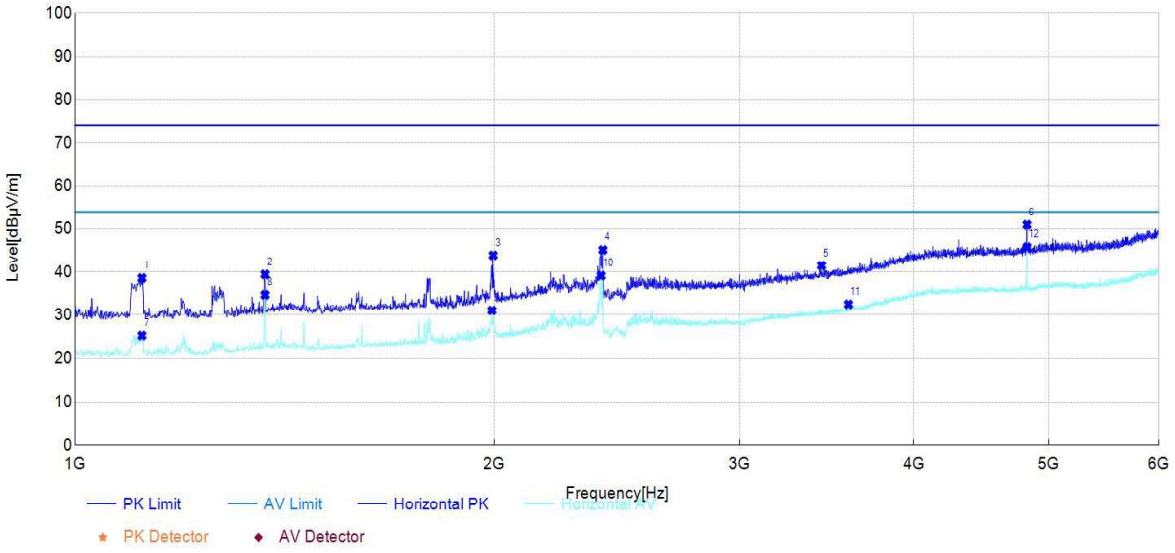
(1) Level=Reading + Factor

(2) Margin=Limit-Level

(3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

1GHz-6GHz

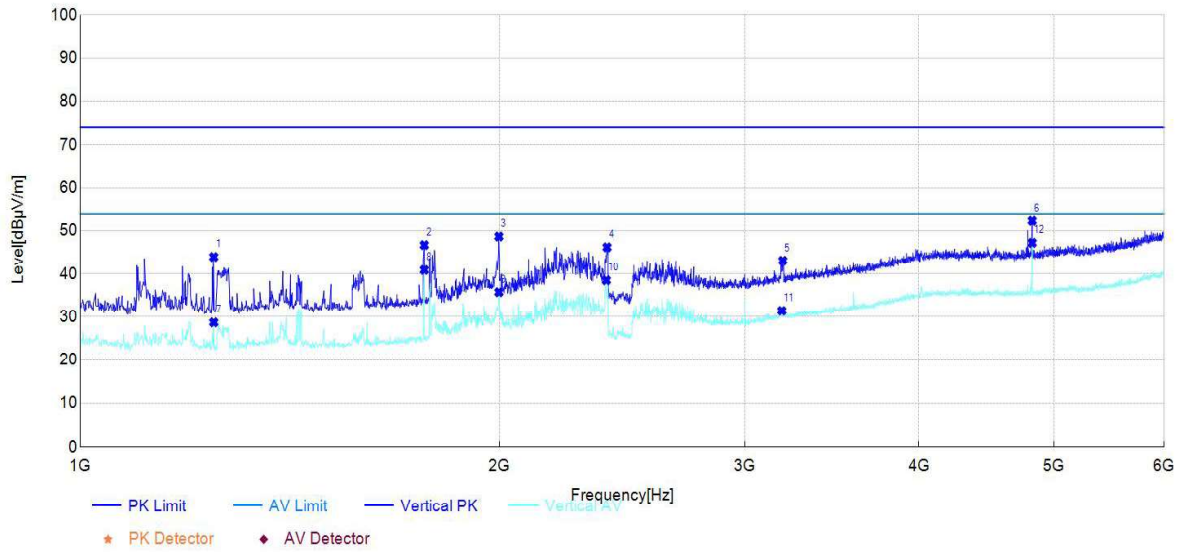
Test Mode:	802.11b	Test Date:	2024-05-23
Test Channel:	01	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1117.00	62.32	38.55	-23.77	74.00	35.45	150	123	PK	Horizontal	PASS
2	1369.00	61.81	39.41	-22.40	74.00	34.59	150	79	PK	Horizontal	PASS
3	1996.00	62.07	43.88	-18.19	74.00	30.12	150	90	PK	Horizontal	PASS
4	2393.00	61.47	45.13	-16.34	74.00	28.87	150	35	PK	Horizontal	PASS
5	3435.00	54.10	41.46	-12.64	74.00	32.54	150	219	PK	Horizontal	PASS
6	4824.00	57.66	50.94	-6.72	74.00	23.06	150	119	PK	Horizontal	PASS
7	1117.00	48.97	25.20	-23.77	54.00	28.80	150	123	AV	Horizontal	PASS
8	1369.00	57.09	34.69	-22.40	54.00	19.31	150	79	AV	Horizontal	PASS
9	1992.00	49.28	31.05	-18.23	54.00	22.95	150	87	AV	Horizontal	PASS
10	2386.00	55.47	39.10	-16.37	54.00	14.90	150	196	AV	Horizontal	PASS
11	3591.00	44.07	32.49	-11.58	54.00	21.51	150	153	AV	Horizontal	PASS
12	4824.00	52.51	45.79	-6.72	54.00	8.21	150	127	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

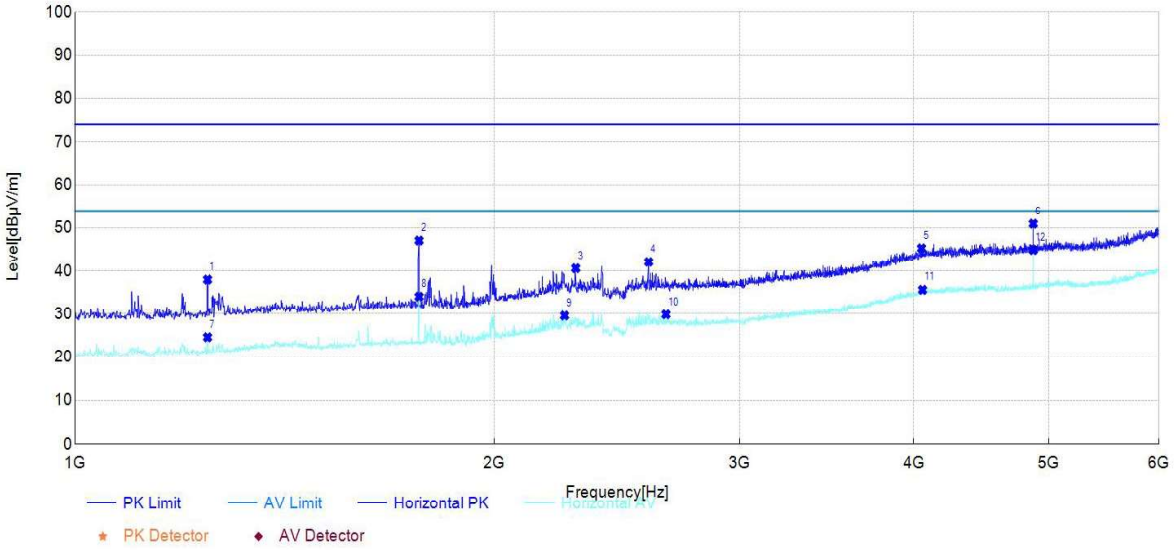


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1247.00	66.16	43.93	-22.23	74.00	30.07	150	76	PK	Vertical	PASS
2	1766.00	65.87	46.68	-19.19	74.00	21.32	150	229	PK	Vertical	PASS
3	1998.00	66.43	48.65	-17.78	74.00	25.35	150	86	PK	Vertical	PASS
4	2389.00	62.67	46.17	-16.50	74.00	27.83	150	57	PK	Vertical	PASS
5	3194.00	56.28	43.08	-13.20	74.00	30.92	150	53	PK	Vertical	PASS
6	4824.00	59.54	52.26	-7.28	74.00	21.74	150	341	PK	Vertical	PASS
7	1247.00	50.92	28.69	-22.23	54.00	25.31	150	76	AV	Vertical	PASS
8	1766.00	60.06	40.87	-19.19	54.00	13.13	150	229	AV	Vertical	PASS
9	1998.00	53.51	35.73	-17.78	54.00	18.27	150	86	AV	Vertical	PASS
10	2386.00	55.00	38.49	-16.51	54.00	15.51	150	276	AV	Vertical	PASS
11	3189.00	44.63	31.40	-13.23	54.00	22.60	150	49	AV	Vertical	PASS
12	4824.00	54.48	47.20	-7.28	54.00	6.80	150	352	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

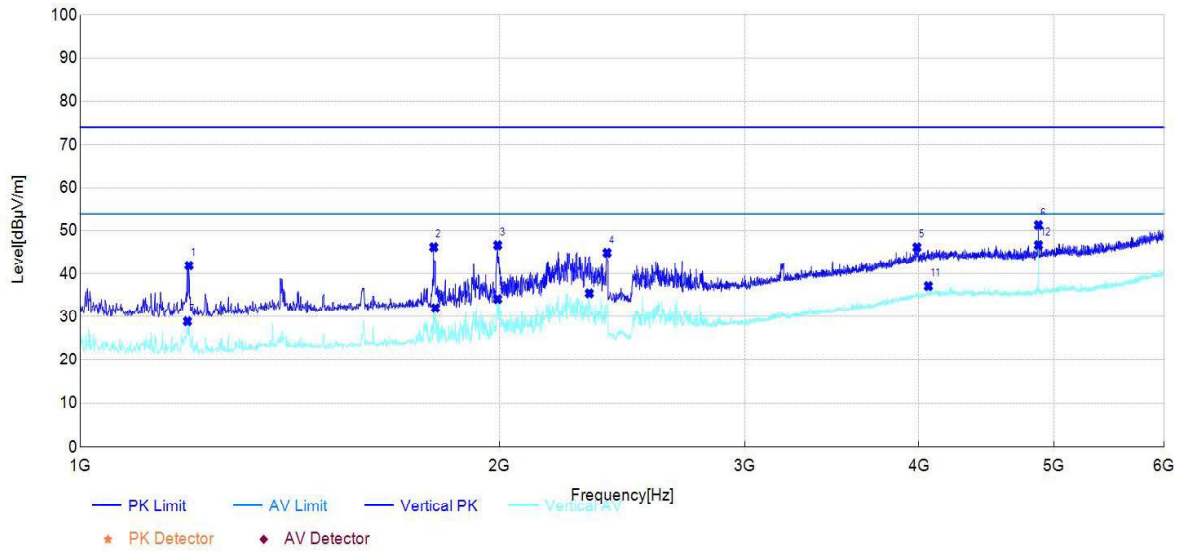
Test Mode:	802.11b	Test Date:	2024-05-23
Test Channel:	06	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1245.00	61.17	37.97	-23.20	74.00	36.03	150	68	PK	Horizontal	PASS
2	1766.00	66.84	47.07	-19.77	74.00	26.93	150	196	PK	Horizontal	PASS
3	2288.00	57.49	40.60	-16.89	74.00	33.40	150	91	PK	Horizontal	PASS
4	2581.00	57.68	42.10	-15.58	74.00	31.90	150	79	PK	Horizontal	PASS
5	4052.00	53.62	45.29	-8.33	74.00	28.71	150	280	PK	Horizontal	PASS
6	4874.00	57.53	50.95	-6.58	74.00	23.05	150	134	PK	Horizontal	PASS
7	1245.00	47.78	24.58	-23.20	54.00	29.42	150	68	AV	Horizontal	PASS
8	1766.00	53.80	34.03	-19.77	54.00	16.97	150	152	AV	Horizontal	PASS
9	2246.00	46.63	29.59	-17.04	54.00	24.41	150	75	AV	Horizontal	PASS
10	2656.00	45.20	29.86	-15.34	54.00	24.14	150	39	AV	Horizontal	PASS
11	4059.00	43.89	35.60	-8.29	54.00	18.40	150	79	AV	Horizontal	PASS
12	4874.00	51.46	44.88	-6.58	54.00	9.12	150	138	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

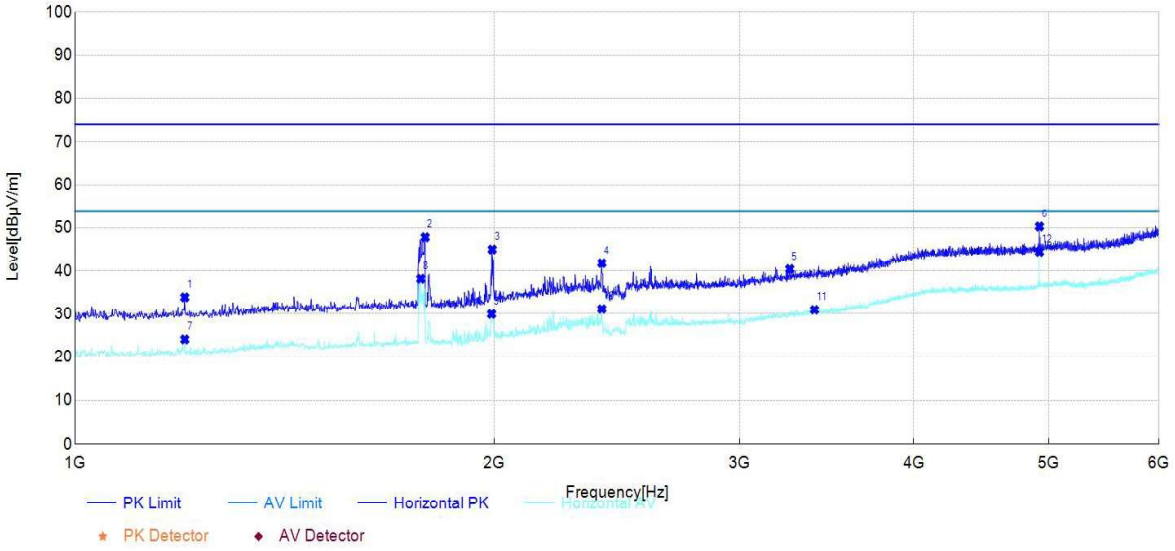


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1197.00	64.39	41.91	-22.48	74.00	32.09	150	307	PK	Vertical	PASS
2	1794.00	65.19	46.22	-18.97	74.00	27.78	150	62	PK	Vertical	PASS
3	1994.00	64.47	46.66	-17.81	74.00	27.34	150	91	PK	Vertical	PASS
4	2389.00	61.41	44.91	-16.50	74.00	29.09	150	55	PK	Vertical	PASS
5	3987.00	54.53	46.18	-8.35	74.00	27.82	150	121	PK	Vertical	PASS
6	4874.00	58.44	51.26	-7.18	74.00	22.74	150	346	PK	Vertical	PASS
7	1194.00	51.39	28.90	-22.49	54.00	25.10	150	91	AV	Vertical	PASS
8	1799.00	50.97	32.04	-18.93	54.00	21.96	150	278	AV	Vertical	PASS
9	1994.00	51.97	34.16	-17.81	54.00	19.84	150	328	AV	Vertical	PASS
10	2320.00	52.25	35.47	-16.78	54.00	18.53	150	281	AV	Vertical	PASS
11	4063.00	45.17	37.13	-8.04	54.00	16.87	150	274	AV	Vertical	PASS
12	4874.00	53.87	46.69	-7.18	54.00	7.31	150	146	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

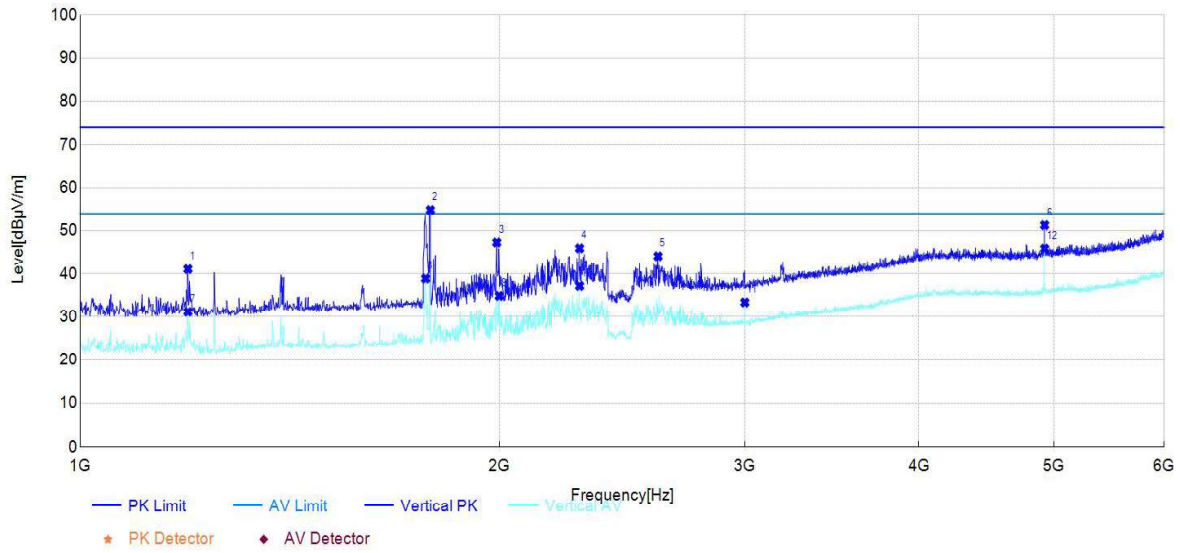
Test Mode:	802.11b	Test Date:	2024-05-23
Test Channel:	11	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1199.00	57.34	33.89	-23.45	74.00	40.11	150	132	PK	Horizontal	PASS
2	1784.00	67.45	47.83	-19.62	74.00	26.17	150	8	PK	Horizontal	PASS
3	1993.00	63.23	45.01	-18.22	74.00	28.99	150	91	PK	Horizontal	PASS
4	2389.00	58.16	41.80	-16.36	74.00	32.20	150	77	PK	Horizontal	PASS
5	3259.00	53.71	40.39	-13.32	74.00	33.61	150	26	PK	Horizontal	PASS
6	4924.00	56.69	50.30	-6.39	74.00	23.70	150	139	PK	Horizontal	PASS
7	1199.00	47.54	24.09	-23.45	54.00	29.91	150	135	AV	Horizontal	PASS
8	1771.00	57.87	38.15	-19.72	54.00	15.85	150	3	AV	Horizontal	PASS
9	1991.00	48.19	29.95	-18.24	54.00	24.05	150	103	AV	Horizontal	PASS
10	2389.00	47.50	31.14	-16.36	54.00	22.86	150	80	AV	Horizontal	PASS
11	3395.00	43.77	30.97	-12.80	54.00	23.03	150	313	AV	Horizontal	PASS
12	4924.00	50.87	44.48	-6.39	54.00	9.52	150	139	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

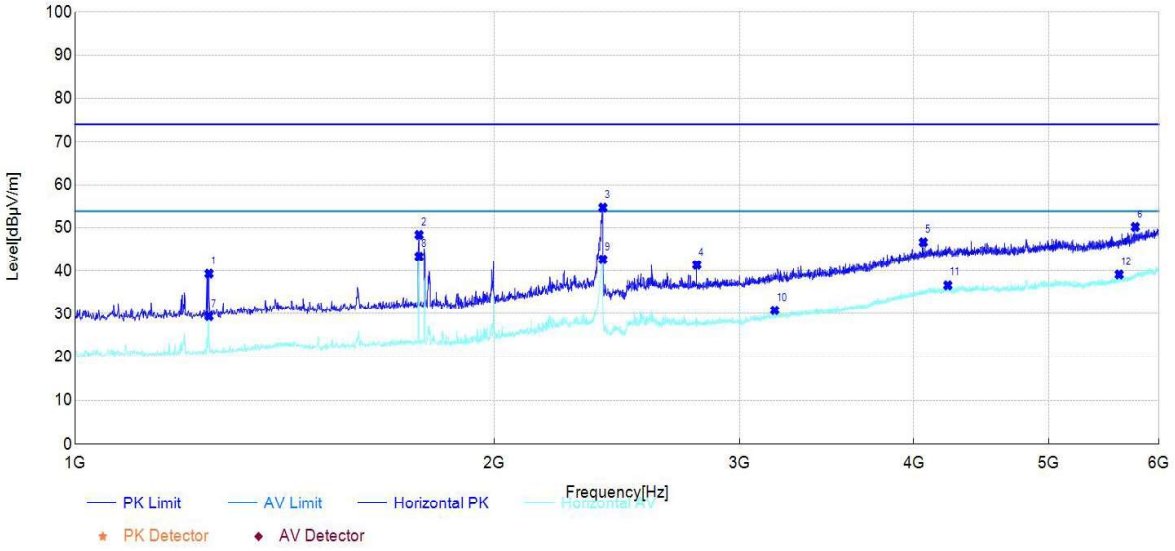


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1195.00	63.56	41.07	-22.49	74.00	32.93	150	91	PK	Vertical	PASS
2	1784.00	73.92	54.88	-19.04	74.00	19.12	150	223	PK	Vertical	PASS
3	1991.00	65.14	47.30	-17.84	74.00	26.70	150	51	PK	Vertical	PASS
4	2283.00	62.85	45.95	-16.90	74.00	28.05	150	281	PK	Vertical	PASS
5	2599.00	59.84	44.11	-15.73	74.00	29.89	150	267	PK	Vertical	PASS
6	4924.00	58.30	51.27	-7.03	74.00	22.73	150	359	PK	Vertical	PASS
7	1195.00	53.65	31.16	-22.49	54.00	22.84	150	91	AV	Vertical	PASS
8	1770.00	58.02	38.86	-19.16	54.00	15.14	150	29	AV	Vertical	PASS
9	1999.00	52.65	34.88	-17.77	54.00	19.12	150	332	AV	Vertical	PASS
10	2283.00	54.08	37.18	-16.90	54.00	16.82	150	281	AV	Vertical	PASS
11	3000.00	47.73	33.38	-14.35	54.00	20.62	150	73	AV	Vertical	PASS
12	4924.00	52.92	45.89	-7.03	54.00	8.11	150	360	AV	Vertical	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

Test Mode:	802.11g	Test Date:	2024-05-23
Test Channel:	01	Test Engineer:	Stone Zhang



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	1248.00	62.50	39.32	-23.18	74.00	34.68	150	110	PK	Horizontal	PASS
2	1766.00	68.12	48.35	-19.77	74.00	25.65	150	183	PK	Horizontal	PASS
3	2393.00	71.16	54.82	-16.34	74.00	19.18	150	172	PK	Horizontal	PASS
4	2795.00	56.54	41.36	-15.18	74.00	32.64	150	47	PK	Horizontal	PASS
5	4064.00	54.94	46.67	-8.27	74.00	27.33	150	186	PK	Horizontal	PASS
6	5769.00	55.55	50.17	-5.38	74.00	23.83	150	158	PK	Horizontal	PASS
7	1248.00	52.61	29.43	-23.18	54.00	24.57	150	110	AV	Horizontal	PASS
8	1766.00	63.15	43.38	-19.77	54.00	10.62	150	183	AV	Horizontal	PASS
9	2393.00	59.02	42.68	-16.34	54.00	11.32	150	172	AV	Horizontal	PASS
10	3179.00	44.52	30.82	-13.70	54.00	23.18	150	343	AV	Horizontal	PASS
11	4232.00	44.52	36.65	-7.87	54.00	17.35	150	303	AV	Horizontal	PASS
12	5617.00	44.89	39.12	-5.77	54.00	14.88	150	216	AV	Horizontal	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level