

	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 rotatable 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass

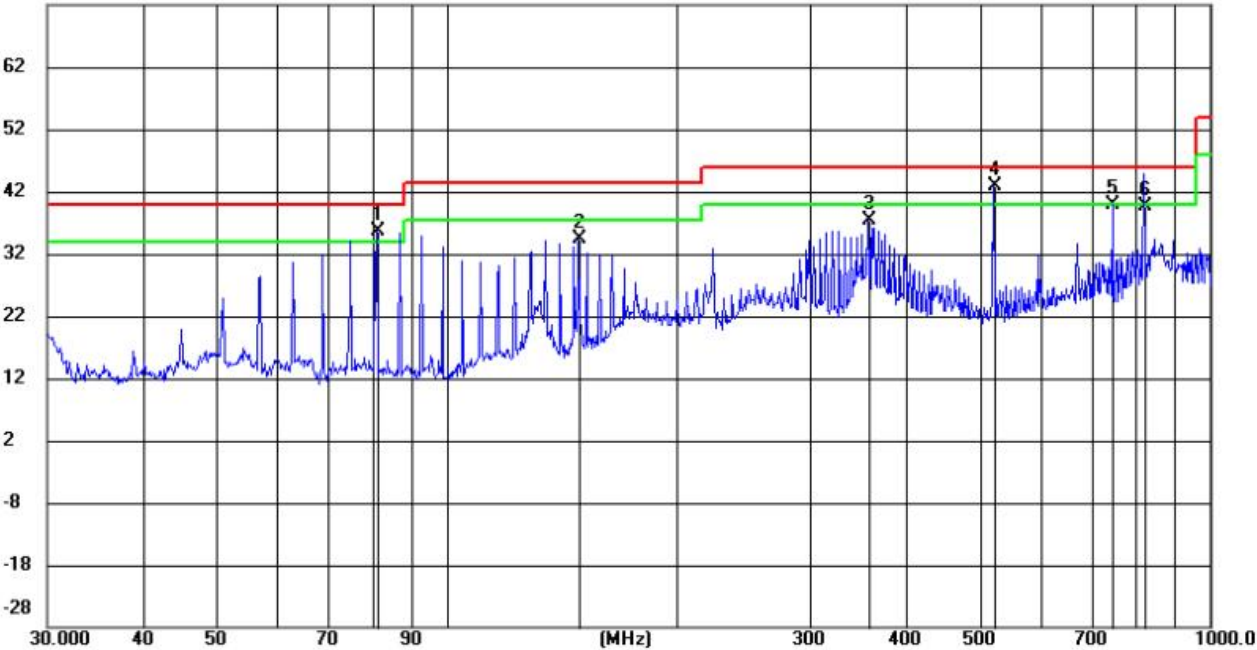
Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK was recorded in the report.

Test Graph

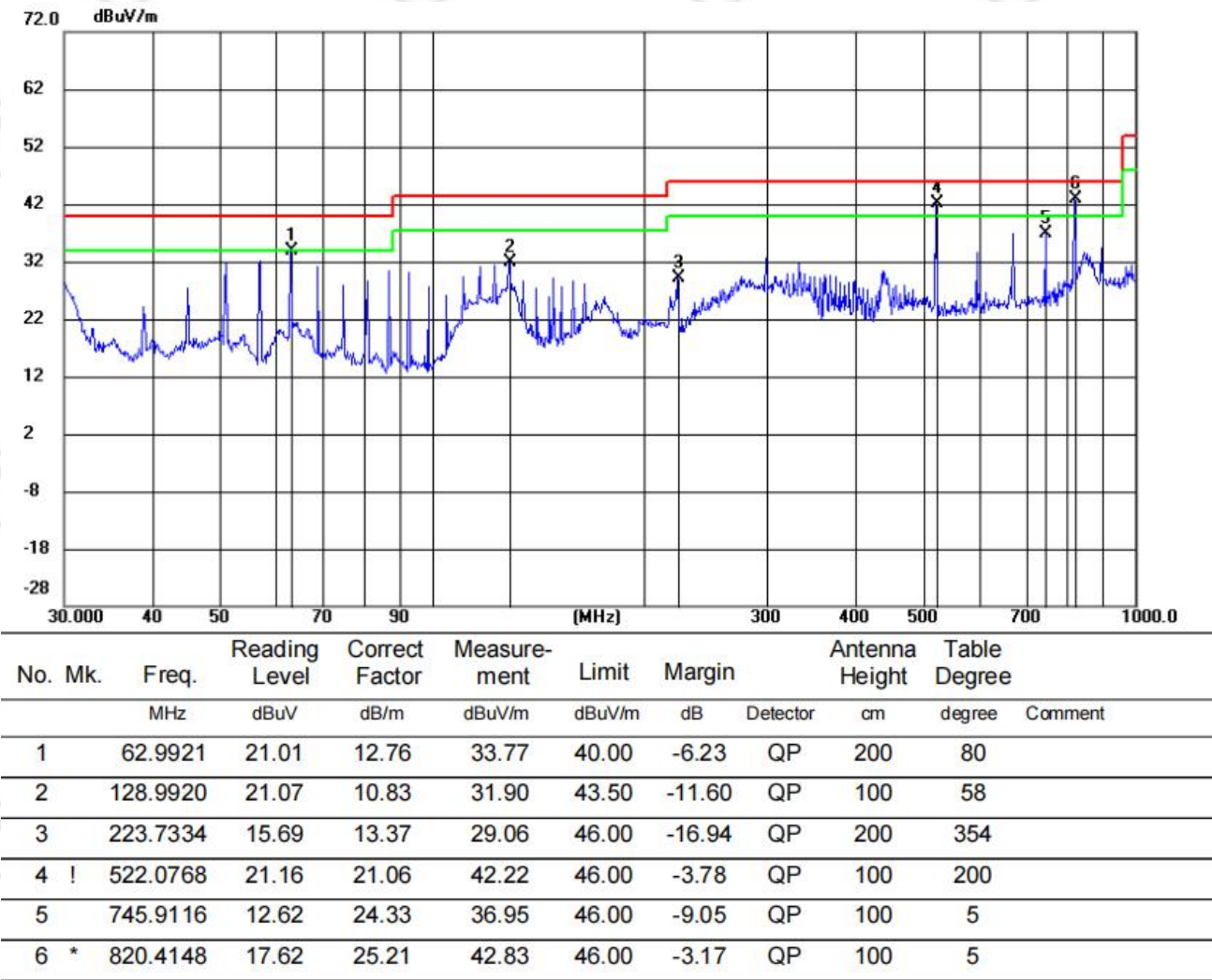
Horizontal:

72.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	!	80.9984	25.65	9.92	35.57	40.00	-4.43	QP	199	360
2		149.1715	24.21	10.26	34.47	43.50	-9.03	QP	199	192
3		356.9886	19.26	18.16	37.42	46.00	-8.58	QP	100	126
4	*	522.0768	21.88	21.06	42.94	46.00	-3.06	QP	199	245
5		745.7807	15.53	24.33	39.86	46.00	-6.14	QP	100	310
6		820.4148	14.39	25.21	39.60	46.00	-6.40	QP	100	57

Test Graph
Vertical:



Radiated Spurious Emission above 1GHz:

Mode:			GFSK Transmitting			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1313.2209	12.21	36.44	48.65	74.00	25.35	Pass	H	PK
2	2098.0732	15.09	36.98	52.07	74.00	21.93	Pass	H	PK
3	3356.2237	-14.00	58.21	44.21	74.00	29.79	Pass	H	PK
4	5742.5328	-5.92	48.97	43.05	74.00	30.95	Pass	H	PK
5	8543.5696	-0.47	45.88	45.41	74.00	28.59	Pass	H	PK
6	11340.056	2.31	44.30	46.61	74.00	27.39	Pass	H	PK
7	1369.4913	12.72	36.29	49.01	74.00	24.99	Pass	V	PK
8	2088.0725	14.99	38.45	53.44	74.00	20.56	Pass	V	PK
9	3150.8101	-14.61	56.55	41.94	74.00	32.06	Pass	V	PK
10	5706.1304	-6.07	48.53	42.46	74.00	31.54	Pass	V	PK
11	8288.1025	-1.01	45.97	44.96	74.00	29.04	Pass	V	PK
12	11295.8531	2.44	44.75	47.19	74.00	26.81	Pass	V	PK

Mode:			GFSK Transmitting			Channel:		2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1206.8138	11.64	37.25	48.89	74.00	25.11	Pass	H	PK
2	2237.8159	15.45	37.34	52.79	74.00	21.21	Pass	H	PK
3	3336.7224	-14.03	58.93	44.90	74.00	29.10	Pass	H	PK
4	4910.4774	-8.23	49.75	41.52	74.00	32.48	Pass	H	PK
5	7870.7747	-1.51	46.63	45.12	74.00	28.88	Pass	H	PK
6	11284.8023	2.43	44.37	46.80	74.00	27.20	Pass	H	PK
7	1169.2113	11.45	37.30	48.75	74.00	25.25	Pass	V	PK
8	1927.9285	14.65	38.01	52.66	74.00	21.34	Pass	V	PK
9	3356.2237	-14.00	57.43	43.43	74.00	30.57	Pass	V	PK
10	5076.2384	-7.85	48.62	40.77	74.00	33.23	Pass	V	PK
11	7422.8949	-2.83	47.10	44.27	74.00	29.73	Pass	V	PK
12	10801.1701	1.89	44.43	46.32	74.00	27.68	Pass	V	PK

Mode:			GFSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1125.075	11.36	37.69	49.05	74.00	24.95	Pass	H	PK
2	1780.452	14.28	36.39	50.67	74.00	23.33	Pass	H	PK
3	3170.9614	-14.55	58.18	43.63	74.00	30.37	Pass	H	PK
4	4898.7766	-8.29	50.46	42.17	74.00	31.83	Pass	H	PK
5	7166.7778	-3.25	46.69	43.44	74.00	30.56	Pass	H	PK
6	10275.285	1.93	44.56	46.49	74.00	27.51	Pass	H	PK
7	1174.0116	11.46	36.64	48.10	74.00	25.90	Pass	V	PK
8	1918.3279	14.76	35.93	50.69	74.00	23.31	Pass	V	PK
9	3571.3881	-13.55	57.01	43.46	74.00	30.54	Pass	V	PK
10	5668.4279	-6.21	49.24	43.03	74.00	30.97	Pass	V	PK
11	8259.5006	-0.97	45.88	44.91	74.00	29.09	Pass	V	PK
12	10793.3696	1.95	44.40	46.35	74.00	27.65	Pass	V	PK

Mode:			π/4DQPSK Transmitting			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1316.0211	12.24	37.11	49.35	74.00	24.65	Pass	H	PK
2	1935.129	14.71	37.07	51.78	74.00	22.22	Pass	H	PK
3	3255.467	-14.10	53.17	39.07	74.00	34.93	Pass	H	PK
4	5329.1053	-7.00	47.89	40.89	74.00	33.11	Pass	H	PK
5	8344.0063	-1.09	46.13	45.04	74.00	28.96	Pass	H	PK
6	11188.5959	2.16	44.47	46.63	74.00	27.37	Pass	H	PK
7	1332.0221	12.30	38.72	51.02	74.00	22.98	Pass	V	PK
8	1768.9846	14.38	36.37	50.75	74.00	23.25	Pass	V	PK
9	3434.2289	-13.90	53.72	39.82	74.00	34.18	Pass	V	PK
10	5744.483	-5.90	47.90	42.00	74.00	32.00	Pass	V	PK
11	7900.0267	-1.35	46.67	45.32	74.00	28.68	Pass	V	PK
12	11262.7008	2.41	44.26	46.67	74.00	27.33	Pass	V	PK

Mode:			$\pi/4$ DQPSK Transmitting			Channel:		2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1318.9546	12.28	36.23	48.51	74.00	25.49	Pass	H	PK
2	1936.1957	14.73	36.01	50.74	74.00	23.26	Pass	H	PK
3	3187.8625	-14.49	53.46	38.97	74.00	35.03	Pass	H	PK
4	5045.0363	-8.09	49.90	41.81	74.00	32.19	Pass	H	PK
5	8179.5453	-1.32	45.61	44.29	74.00	29.71	Pass	H	PK
6	10387.0925	1.89	44.30	46.19	74.00	27.81	Pass	H	PK
7	1214.681	11.58	36.72	48.30	74.00	25.70	Pass	V	PK
8	1953.5302	14.75	36.96	51.71	74.00	22.29	Pass	V	PK
9	3414.7276	-13.94	53.23	39.29	74.00	34.71	Pass	V	PK
10	5120.4414	-7.49	48.84	41.35	74.00	32.65	Pass	V	PK
11	6887.2592	-3.33	47.26	43.93	74.00	30.07	Pass	V	PK
12	10213.5309	1.64	44.93	46.57	74.00	27.43	Pass	V	PK

Mode:			$\pi/4$ DQPSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1321.4881	12.28	37.32	49.60	74.00	24.40	Pass	H	PK
2	1910.7274	14.81	36.14	50.95	74.00	23.05	Pass	H	PK
3	3596.0897	-13.29	52.30	39.01	74.00	34.99	Pass	H	PK
4	5041.7861	-8.08	49.24	41.16	74.00	32.84	Pass	H	PK
5	7703.7136	-1.67	47.13	45.46	74.00	28.54	Pass	H	PK
6	10286.9858	1.92	45.19	47.11	74.00	26.89	Pass	H	PK
7	1350.1567	12.46	36.47	48.93	74.00	25.07	Pass	V	PK
8	1793.9196	14.19	36.35	50.54	74.00	23.46	Pass	V	PK
9	3402.3768	-13.97	53.99	40.02	74.00	33.98	Pass	V	PK
10	5057.3872	-7.90	50.11	42.21	74.00	31.79	Pass	V	PK
11	7779.7687	-1.82	46.96	45.14	74.00	28.86	Pass	V	PK
12	10453.3969	2.23	43.39	45.62	74.00	28.38	Pass	V	PK

Mode:			8DPSK Transmitting			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1326.1551	12.27	36.56	48.83	74.00	25.17	Pass	H	PK
2	1927.7952	14.66	36.31	50.97	74.00	23.03	Pass	H	PK
3	3536.2858	-13.81	53.45	39.64	74.00	34.36	Pass	H	PK
4	5056.0871	-7.94	49.22	41.28	74.00	32.72	Pass	H	PK
5	7197.9799	-3.40	47.28	43.88	74.00	30.12	Pass	H	PK
6	10687.4125	2.44	43.71	46.15	74.00	27.85	Pass	H	PK
7	1268.1512	11.91	36.86	48.77	74.00	25.23	Pass	V	PK
8	1943.7963	14.81	37.57	52.38	74.00	21.62	Pass	V	PK
9	3413.4276	-13.94	53.20	39.26	74.00	34.74	Pass	V	PK
10	4773.9683	-8.63	49.21	40.58	74.00	33.42	Pass	V	PK
11	7064.721	-3.28	47.06	43.78	74.00	30.22	Pass	V	PK
12	10730.3154	2.38	43.63	46.01	74.00	27.99	Pass	V	PK

Mode:			8DPSK Transmitting			Channel:		2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1295.0863	12.05	37.14	49.19	74.00	24.81	Pass	H	PK
2	1829.922	14.35	38.00	52.35	74.00	21.65	Pass	H	PK
3	3456.3304	-13.86	53.70	39.84	74.00	34.16	Pass	H	PK
4	5381.1087	-6.81	48.67	41.86	74.00	32.14	Pass	H	PK
5	7421.5948	-2.86	47.15	44.29	74.00	29.71	Pass	H	PK
6	11854.2403	2.56	45.73	48.29	74.00	25.71	Pass	H	PK
7	1466.9645	13.04	36.76	49.80	74.00	24.20	Pass	V	PK
8	2113.8076	15.08	36.74	51.82	74.00	22.18	Pass	V	PK
9	3533.6856	-13.82	53.31	39.49	74.00	34.51	Pass	V	PK
10	5123.0415	-7.47	48.51	41.04	74.00	32.96	Pass	V	PK
11	7901.3268	-1.35	46.35	45.00	74.00	29.00	Pass	V	PK
12	10777.7685	2.08	44.13	46.21	74.00	27.79	Pass	V	PK

Mode:			8DPSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1357.2238	12.57	37.54	50.11	74.00	23.89	Pass	H	PK
2	1697.1131	14.06	36.74	50.80	74.00	23.20	Pass	H	PK
3	3293.1695	-14.10	53.25	39.15	74.00	34.85	Pass	H	PK
4	5034.6356	-8.02	48.98	40.96	74.00	33.04	Pass	H	PK
5	7406.6438	-3.15	47.42	44.27	74.00	29.73	Pass	H	PK
6	10251.2334	1.99	44.78	46.77	74.00	27.23	Pass	H	PK
7	1242.8162	11.59	37.37	48.96	74.00	25.04	Pass	V	PK
8	1662.3108	13.80	37.12	50.92	74.00	23.08	Pass	V	PK
9	3102.7068	-14.72	54.70	39.98	74.00	34.02	Pass	V	PK
10	4322.1881	-10.10	50.80	40.70	74.00	33.30	Pass	V	PK
11	6825.505	-3.64	47.39	43.75	74.00	30.25	Pass	V	PK
12	10288.9359	1.91	44.64	46.55	74.00	27.45	Pass	V	PK

Remark:

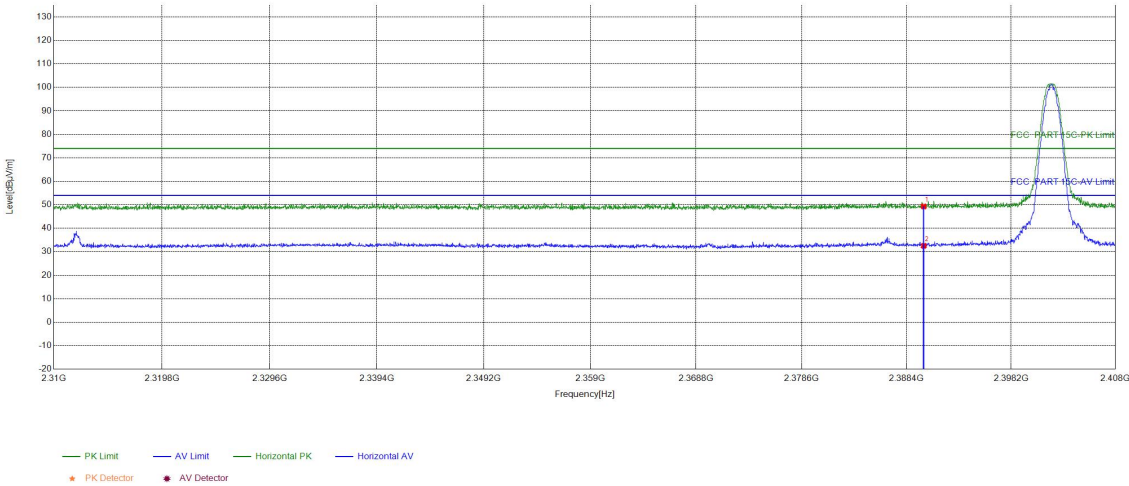
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

Restricted bands:

Test plot as follows:

EUT_Name		Test_Model	
Test_Mode	GFSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/28
Remark			

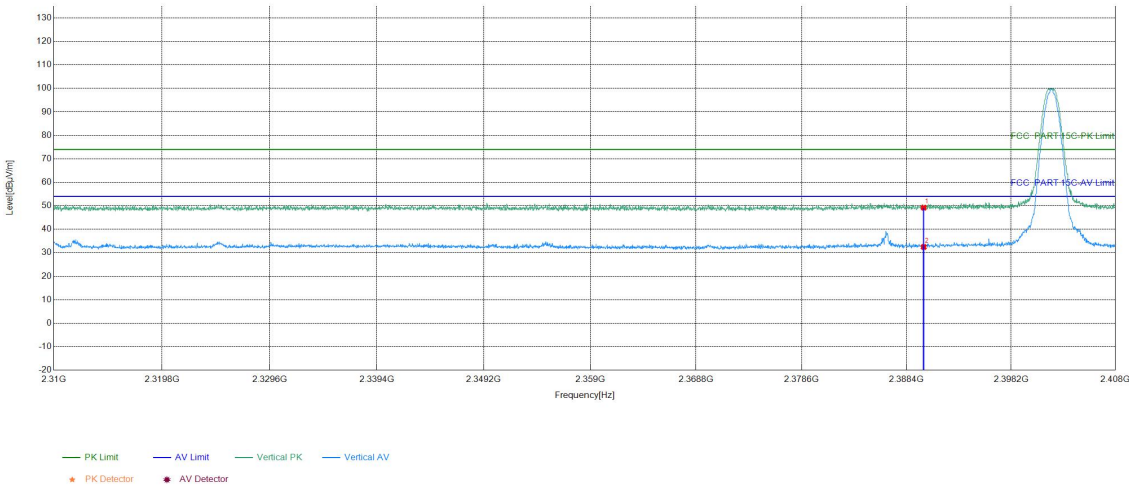
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.96	33.34	49.30	74.00	24.70	PASS	Horizontal	PK
2	2390	15.96	16.56	32.52	54.00	21.48	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	GFSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/28
Remark			

Test Graph

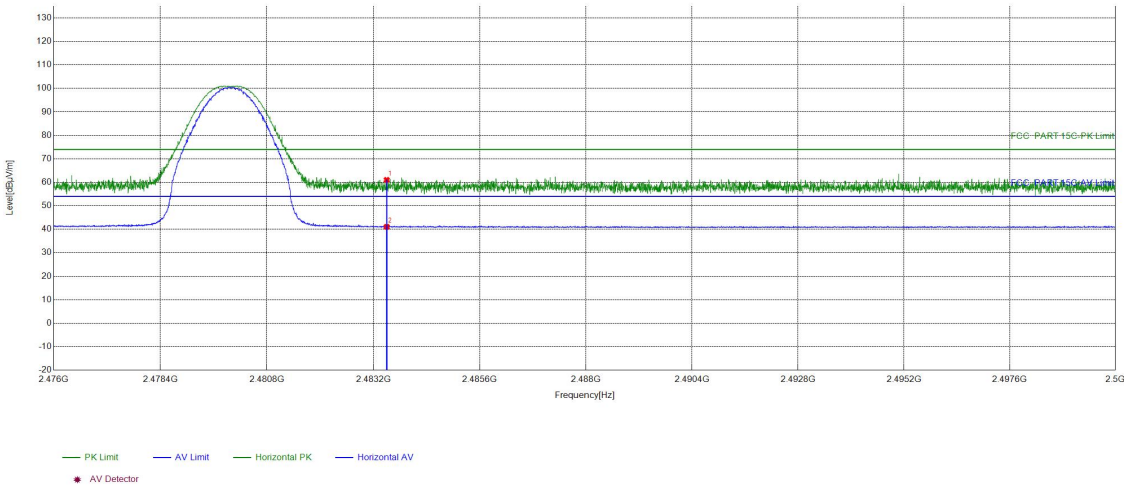


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.96	33.24	49.20	74.00	24.80	PASS	Vertical	PK
2	2390	15.96	16.52	32.48	54.00	21.52	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	GFSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/28
Remark			

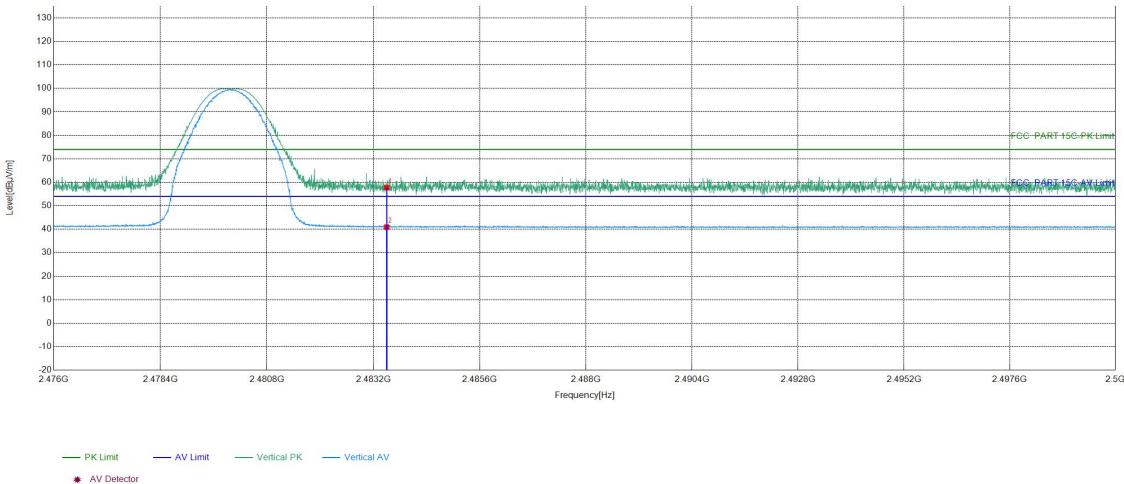
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	16.29	44.74	61.03	74.00	12.97	PASS	Horizontal	PK
2	2483.5	16.29	24.74	41.03	54.00	12.97	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	GFSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/28
Remark			

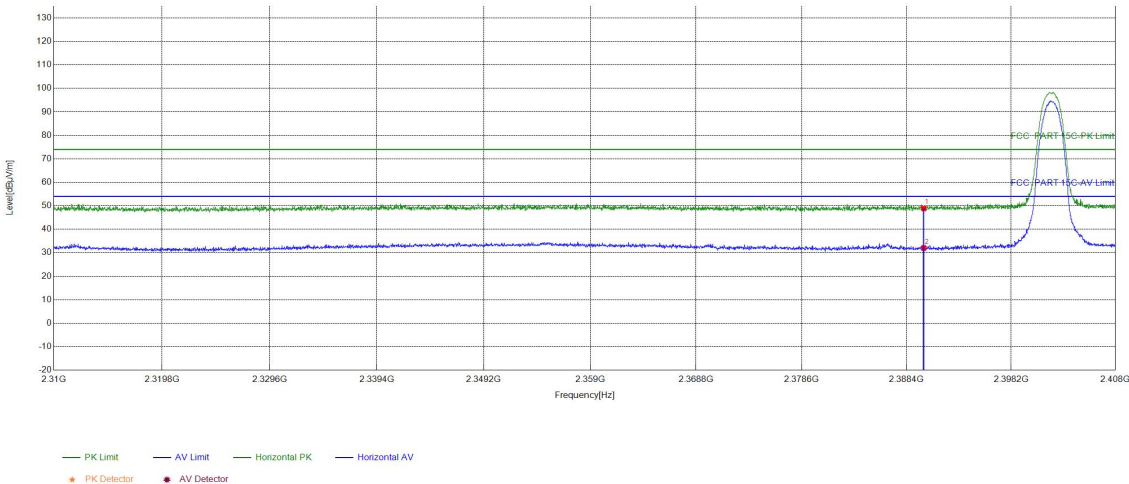
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	16.29	41.47	57.76	74.00	16.24	PASS	Vertical	PK
2	2483.5	16.29	24.61	40.90	54.00	13.10	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	π /4DQPSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/29
Remark			

Test Graph

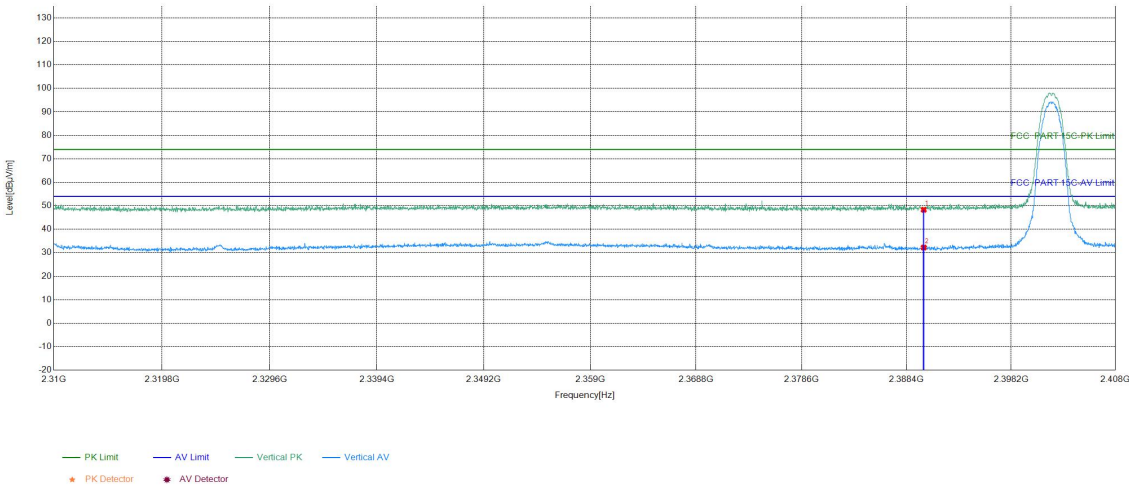


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.96	32.93	48.89	74.00	25.11	PASS	Horizontal	PK
2	2390	15.96	16.06	32.02	54.00	21.98	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	π/4DQPSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/29
Remark			

Test Graph

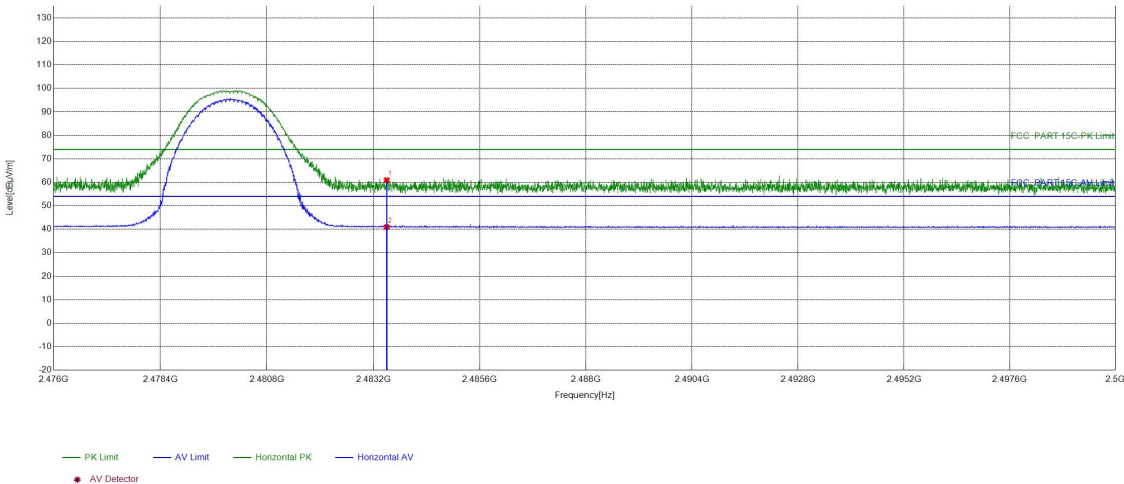


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.96	32.34	48.30	74.00	25.70	PASS	Vertical	PK
2	2390	15.96	16.26	32.22	54.00	21.78	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	π /4DQPSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/29
Remark			

Test Graph

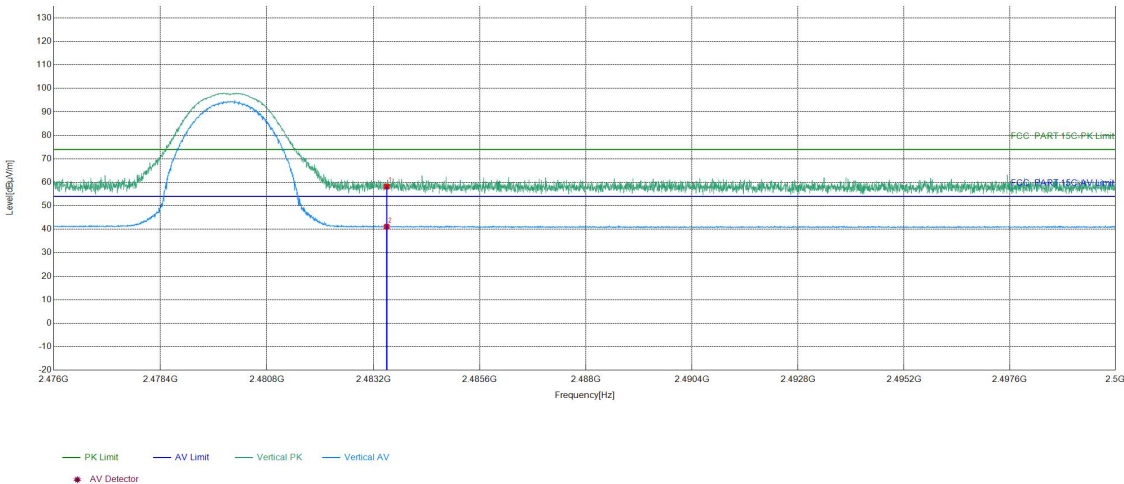


Suspected List

NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	16.29	44.64	60.93	74.00	13.07	PASS	Horizontal	PK
2	2483.5	16.29	24.64	40.93	54.00	13.07	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	π/4DQPSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/29
Remark			

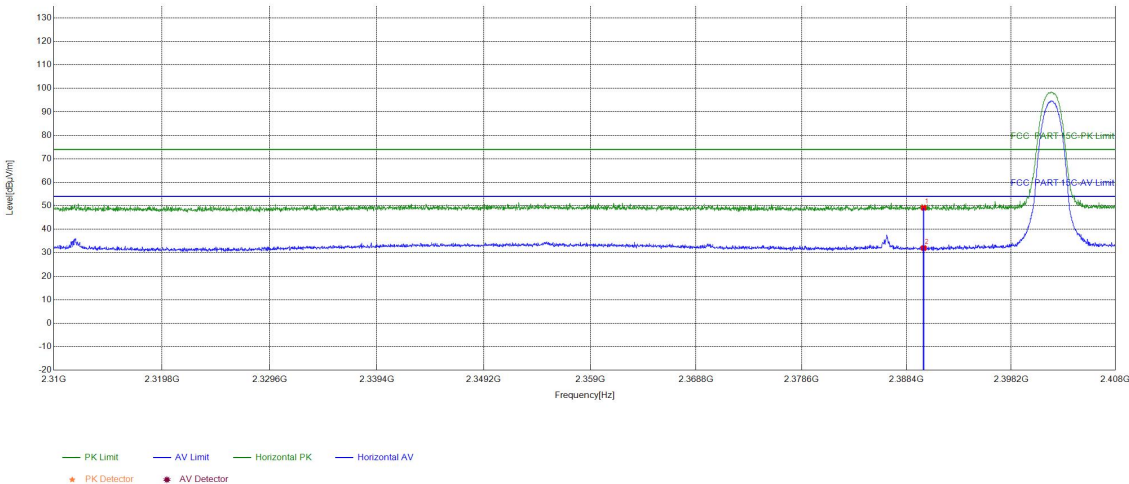
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	16.29	41.91	58.20	74.00	15.80	PASS	Vertical	PK
2	2483.5	16.29	24.80	41.09	54.00	12.91	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	8DPSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/08/29
Remark			

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.96	33.20	49.16	74.00	24.84	PASS	Horizontal	PK
2	2390	15.96	16.03	31.99	54.00	22.01	PASS	Horizontal	AV