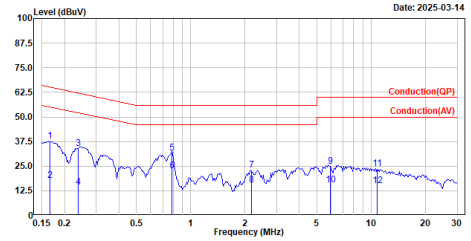
Appendix A. Test Result of AC Power Line Conducted Emission

Charge Mode

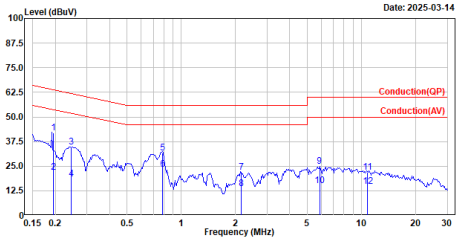
Site :HY-SR01
Condition :Line
Mode :Charge mode
test by :Neko



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.167	37.58	65.11	-27.53	27.94	9.64	QP
2	0.167	17.88	55.11	-37.23	8.24	9.64	Average
3	0.239	34.04	62.12	-28.08	24.39	9.65	QP
4	0.239	14.48	52.12	-37.64	4.83	9.65	Average
5	0.790	31.52	56.00	-24.48	21.84	9.68	QP
6	0.790	22.58	46.00	-23.42	12.90	9.68	Average
7	2.165	23.02	56.00	-32.98	13.23	9.79	QP
8	2.165	15.37	46.00	-30.63	5.58	9.79	Average
9	5.920	25.03	60.00	-34.97	14.89	10.14	QP
10	5.920	15.31	50.00	-34.69	5.17	10.14	Average
11	10.792	23.63	60.00	-36.37	13.47	10.16	QP
12	10.792	15.21	50.00	-34.79	5.05	10.16	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Site :HY-SR01
Condition :Neutral
Mode :Charge mode
test by :Neko

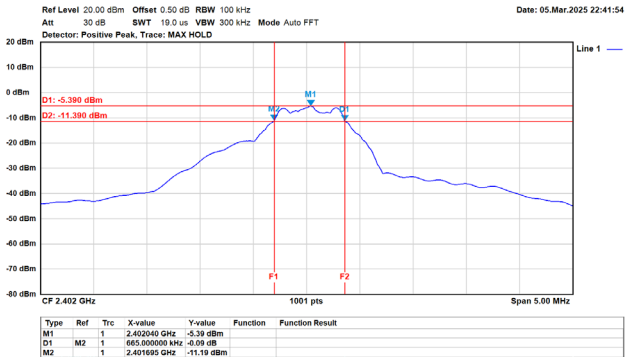
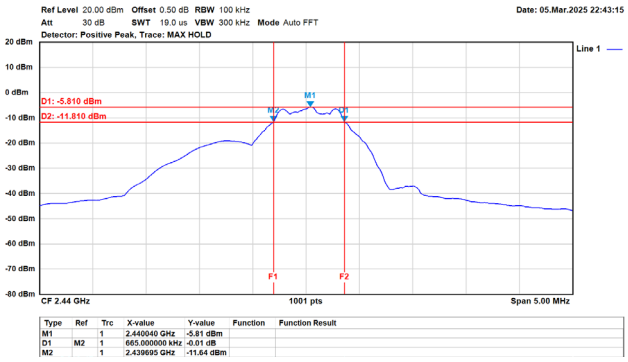
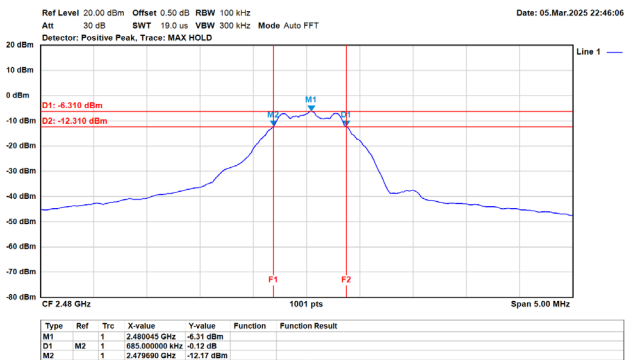


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.195	41.88	63.83	-21.95	32.26	9.62	QP
2	0.195	21.89	53.83	-31.94	12.27	9.62	Average
3	0.246	34.61	61.90	-27.29	24.98	9.63	QP
4	0.246	18.33	51.90	-33.57	8.70	9.63	Average
5	0.789	31.72	56.00	-24.28	22.06	9.66	QP
6	0.789	23.38	46.00	-22.62	13.72	9.66	Average
7	2.152	21.89	56.00	-34.11	12.12	9.77	QP
8	2.152	13.61	46.00	-32.39	3.84	9.77	Average
9	5.854	24.91	60.00	-35.09	14.79	10.12	QP
10	5.854	15.20	50.00	-34.80	5.08	10.12	Average
11	10.793	21.78	60.00	-38.22	11.62	10.16	QP
12	10.793	14.78	50.00	-35.22	4.62	10.16	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Appendix B. Test Result of 6dB Bandwidth

Modulation	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
GFSK (1MHz)	2402	0.67	0.50	Pass
	2440	0.67	0.50	Pass
	2480	0.69	0.50	Pass

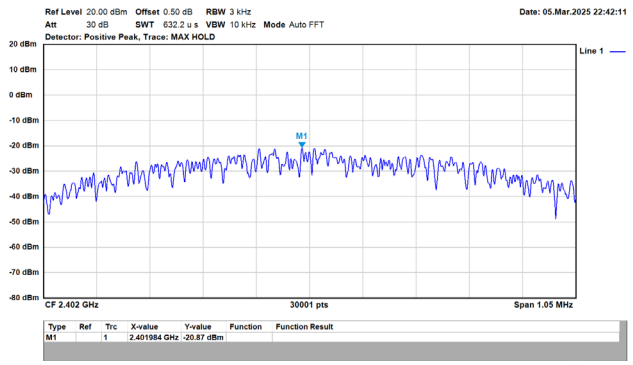
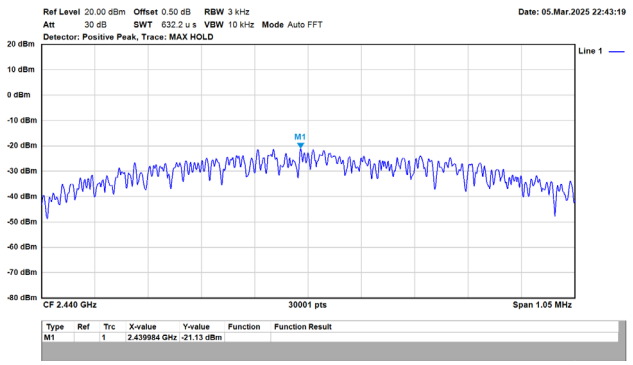
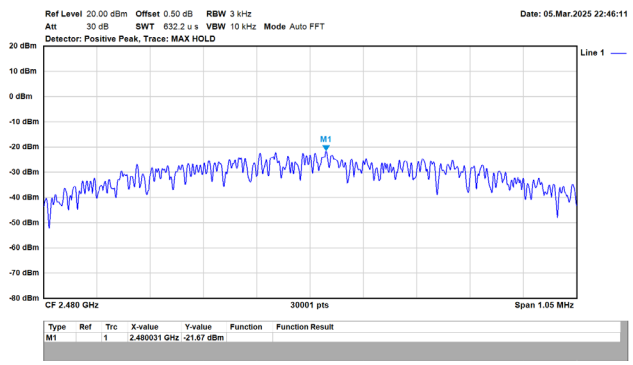
GFSK/1MHz/1M/2402MHz/Ch0/Ant.1	GFSK/1MHz/1M/2440MHz/Ch19/Ant.1
	
GFSK/1MHz/1M/2480MHz/Ch39/Ant.1	
	

Appendix C. Test Result of Maximum Peak Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Result
GFSK (1 Mbps)	2402	-4.01	30.00	Pass
	2440	-3.95	30.00	Pass
	2480	-3.95	30.00	Pass

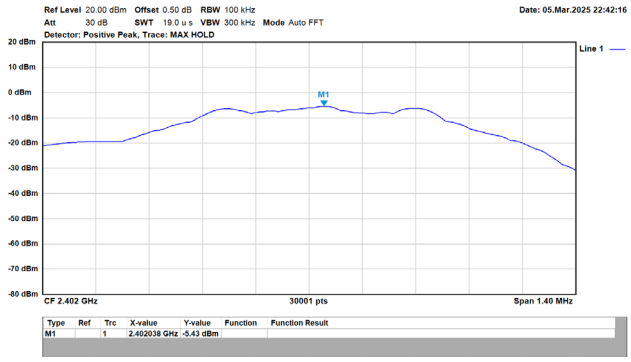
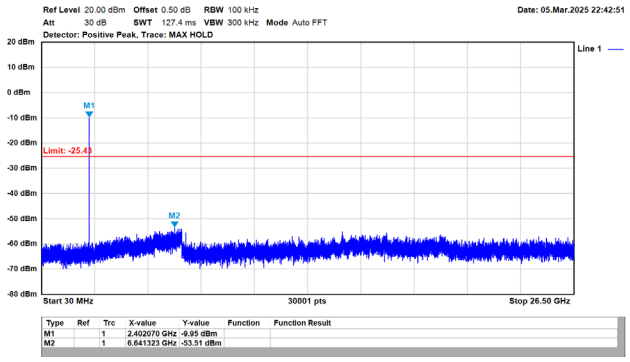
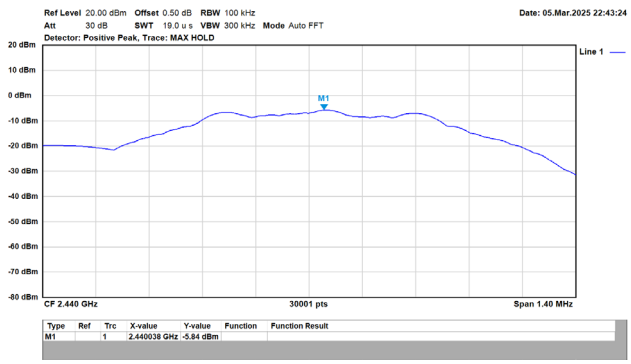
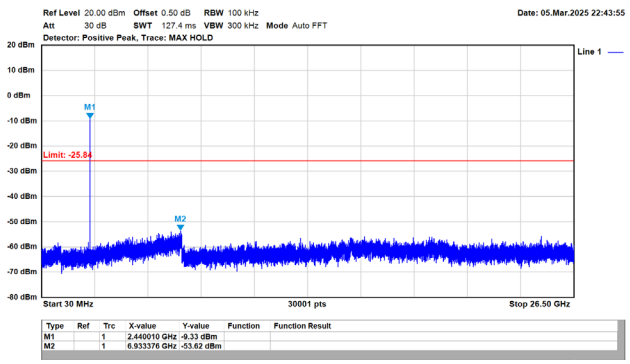
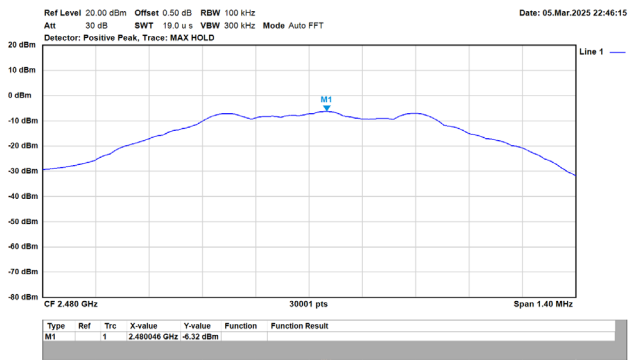
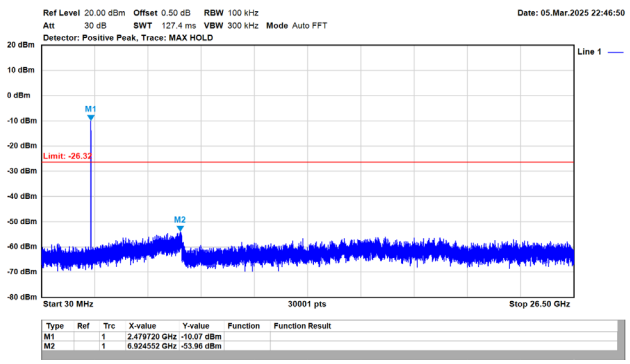
Appendix D. Test Result of Power Spectral Density

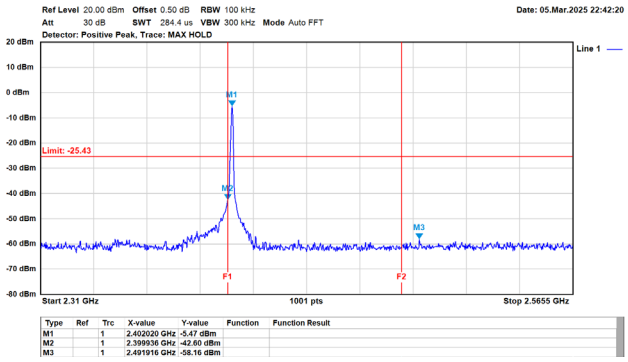
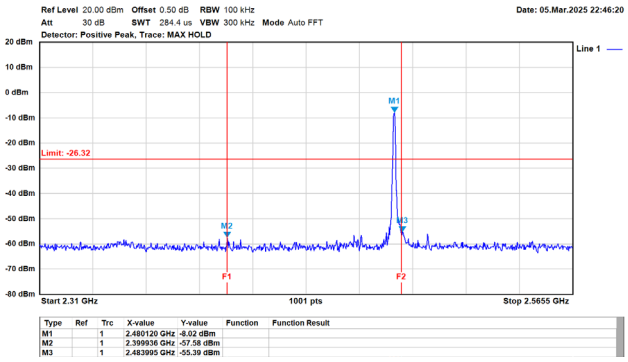
Modulation	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK (1 Mbps)	2402	-20.87	8.00	Pass
	2440	-21.13	8.00	Pass
	2480	-21.67	8.00	Pass

GFSK/1MHz/1M/2402MHz/Ch0/Ant.1	GFSK/1MHz/1M/2440MHz/Ch19/Ant.1
	
GFSK/1MHz/1M/2480MHz/Ch39/Ant.1	
	

Appendix E. Test Result of Antenna Port Conducted Emission

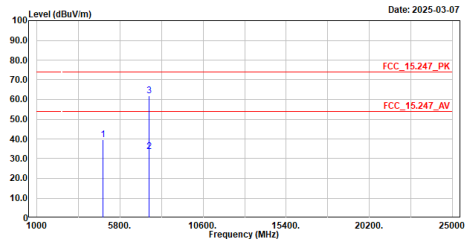
Modulation	Measurement Level Δ (dB)	Result
GFSK (1 Mbps)	> 20	PASS

GFSK/1MHz/1M/2402MHz/Ch0/Ant.1 (Ref.)	GFSK/1MHz/1M/2402MHz/Ch0/Ant.1
	
GFSK/1MHz/1M/2440MHz/Ch19/Ant.1 (Ref.)	GFSK/1MHz/1M/2440MHz/Ch19/Ant.1
	
GFSK/1MHz/1M/2480MHz/Ch39/Ant.1 (Ref.)	GFSK/1MHz/1M/2480MHz/Ch39/Ant.1
	

GFSK/1MHz/1M/2402MHz/Ch0/Ant.1(Band Edge)	GFSK/1MHz/1M/2480MHz/Ch39/Ant.1(Band Edge)
	

Appendix F. Test Result of Radiated Emission

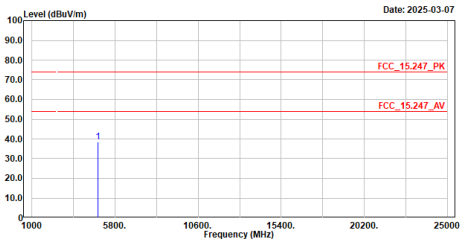
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_ble1m_2402MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4804.000	39.60	74.00	-34.40	46.86	-7.26	Peak
2	7473.600	33.75	54.00	-20.25	33.85	-0.10	Average
3	7473.600	61.99	74.00	-12.01	62.09	-0.10	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

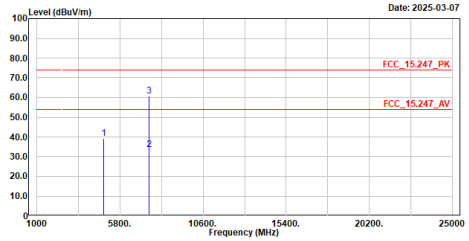
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_ble1m_2402MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4804.000	38.42	74.00	-35.58	45.68	-7.26	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

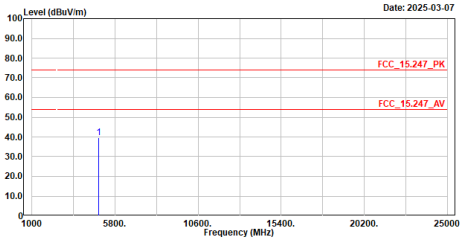
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_ble1m_2440MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4880.000	39.28	74.00	-34.72	46.18	-6.90	Peak
2	7473.600	33.68	54.00	-20.32	33.78	-0.10	Average
3	7473.600	60.81	74.00	-13.19	60.91	-0.10	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

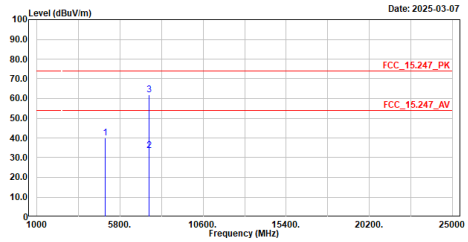
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_ble1m_2440MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4880.000	39.77	74.00	-34.23	46.67	-6.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

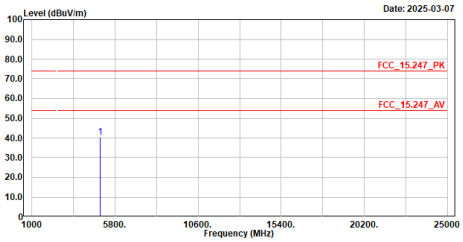
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_ble1m_2480MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4960.000	39.83	74.00	-34.17	46.44	-6.61	Peak
2	7482.100	33.60	54.00	-20.40	33.75	-0.15	Average
3	7482.100	61.76	74.00	-12.24	61.91	-0.15	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

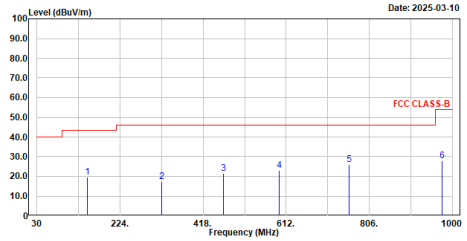
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_ble1m_2480MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4960.000	40.32	74.00	-33.68	46.93	-6.61	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

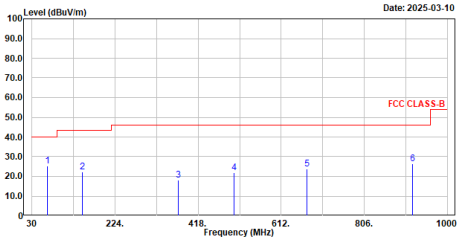
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_ble1m_2440MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	148.340	19.73	43.50	-23.77	44.35	-24.62	QP
2	321.000	17.44	46.00	-28.56	40.44	-23.00	QP
3	465.530	21.32	46.00	-24.68	40.46	-19.14	QP
4	596.480	22.88	46.00	-23.12	39.08	-16.20	QP
5	758.470	25.95	46.00	-20.05	39.66	-13.71	QP
6	975.750	28.00	54.00	-26.00	39.43	-11.43	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

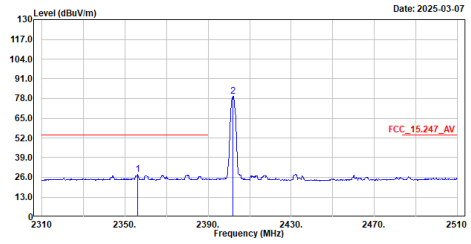
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_ble1m_2440MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	65.890	25.20	40.00	-14.80	51.64	-26.44	QP
2	148.340	22.21	43.50	-21.29	46.83	-24.62	QP
3	371.440	18.16	46.00	-27.84	39.97	-21.81	QP
4	501.420	21.76	46.00	-24.24	40.41	-18.65	QP
5	672.140	23.76	46.00	-22.24	39.16	-15.40	QP
6	918.520	26.56	46.00	-19.44	38.52	-11.96	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

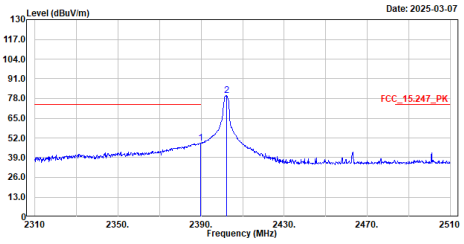
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_ble1m_2402MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2356.000	27.72	54.00	-26.28	21.62	6.10	Average
2	2402.000	79.30	------	------	73.26	6.04	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

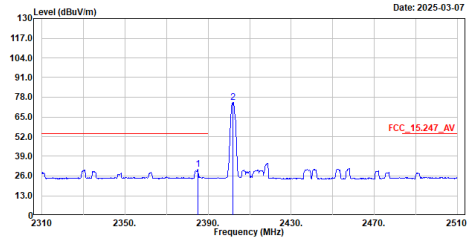
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_ble1m_2402MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2389.800	48.60	74.00	-25.40	42.47	6.13	Peak
2	2402.200	79.81	------	------	73.77	6.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

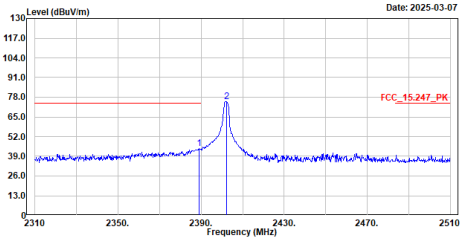
Site :HY-CB02
Condition :3m ,Vertical
mode :TX_ble1m_2402MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2385.000	30.20	54.00	-23.80	24.07	6.13	Average
2	2402.000	74.55	------	------	68.51	6.04	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

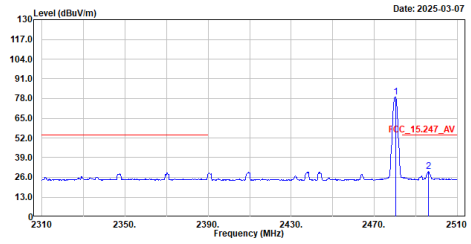
Site :HY-CB02
Condition :3m ,Vertical
mode :TX_ble1m_2402MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2389.000	44.06	74.00	-29.94	37.93	6.13	Peak
2	2402.200	75.06	------	------	69.02	6.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

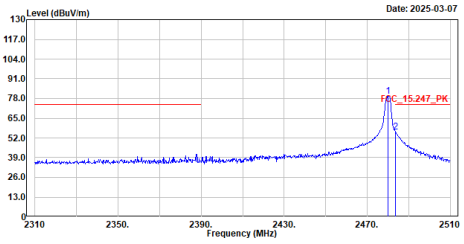
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_ble1m_2480MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.200	78.91	------	------	72.88	6.03	Average
2	2496.200	29.96	54.00	-24.04	23.82	6.14	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

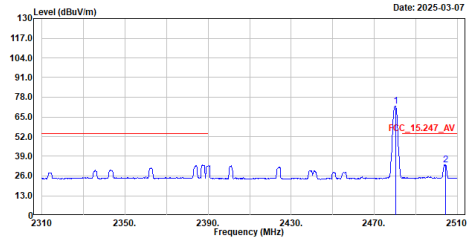
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_ble1m_2480MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.000	79.37	------	------	73.34	6.03	Peak
2	2483.600	55.96	74.00	-18.04	49.89	6.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

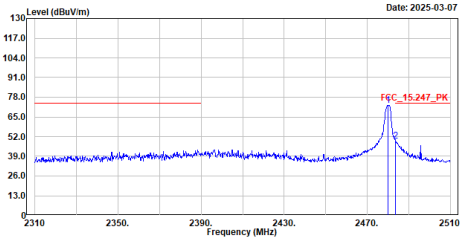
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_ble1m_2480MHz
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.200	72.27	------	------	66.24	6.03	Average
2	2504.400	33.55	54.00	-20.45	27.40	6.15	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_ble1m_2480MHz
Test by :Caster

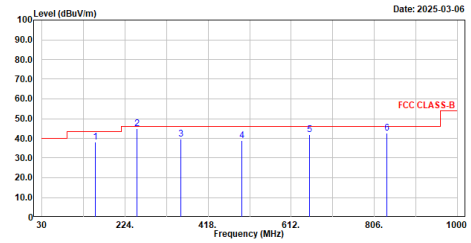


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.000	72.78	------	------	66.75	6.03	Peak
2	2483.600	49.12	74.00	-24.88	43.05	6.07	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Charge Mode

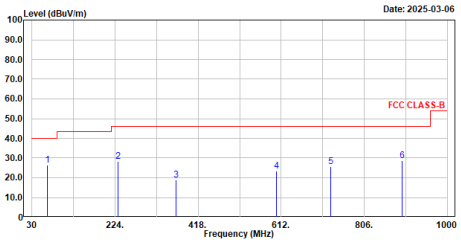
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :Charge mode
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	155.130	38.30	43.50	-5.20	62.09	-23.79	QP
2	252.130	44.75	46.00	-1.25	69.65	-24.90	QP
3	353.980	39.71	46.00	-6.29	61.59	-21.88	QP
4	497.540	38.97	46.00	-7.03	57.07	-18.10	QP
5	654.680	41.98	46.00	-4.02	56.81	-14.83	QP
6	835.100	42.63	46.00	-3.37	54.87	-12.24	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB02
Condition :3m ,VERTICAL
mode :Charge mode
Test by :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	65.890	26.40	40.00	-13.60	52.26	-25.86	QP
2	231.760	28.38	46.00	-17.62	54.07	-25.69	QP
3	366.590	18.71	46.00	-27.29	40.23	-21.52	QP
4	600.360	23.29	46.00	-22.71	38.73	-15.44	QP
5	728.400	25.53	46.00	-20.47	38.92	-13.39	QP
6	895.240	28.73	46.00	-17.27	40.32	-11.59	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.