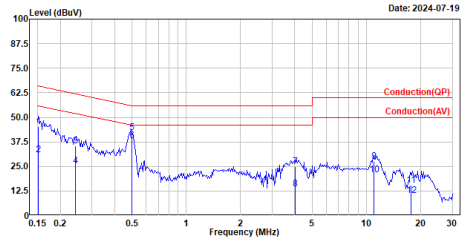
Appendix A. Test Result of AC Power Line Conducted Emission

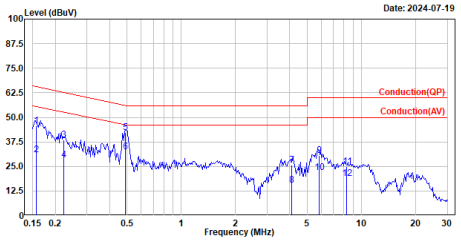
Site :HY-SR01
Condition :Line
Mode :TX_BLE1M_2440MHz
test by :Kevin



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.152	45.47	65.92	-20.45	35.79	9.68	QP
2	0.152	30.99	55.92	-24.93	21.31	9.68	Average
3	0.244	35.51	61.96	-26.45	25.83	9.68	QP
4	0.244	25.38	51.96	-26.58	15.70	9.68	Average
5	0.498	42.12	56.04	-13.92	32.44	9.68	QP
6	0.498	37.94	46.04	-8.10	28.26	9.68	Average
7	4.024	25.00	56.00	-31.00	14.50	10.50	QP
8	4.024	13.65	46.00	-32.35	3.15	10.50	Average
9	11.041	27.42	60.00	-32.58	16.62	10.80	QP
10	11.041	20.66	50.00	-29.34	9.86	10.80	Average
11	17.619	15.36	60.00	-44.64	4.63	10.73	QP
12	17.619	10.36	50.00	-39.64	-0.37	10.73	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 :TX_BLE1M_2440MHz
test by :Kevin



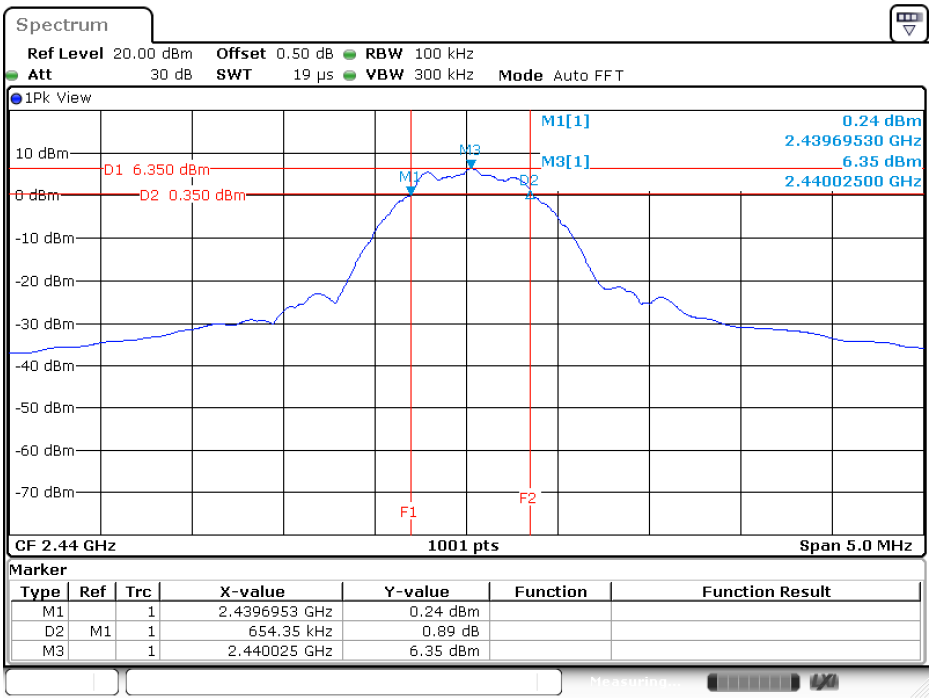
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.158	45.53	65.59	-20.06	35.87	9.66	QP
2	0.158	30.90	55.59	-24.69	21.24	9.66	Average
3	0.223	38.45	62.73	-24.28	28.79	9.66	QP
4	0.223	28.30	52.73	-24.43	18.64	9.66	Average
5	0.488	42.10	56.20	-14.10	32.44	9.66	QP
6	0.488	32.41	46.20	-13.79	22.75	9.66	Average
7	4.114	25.80	56.00	-30.20	15.29	10.51	QP
8	4.114	15.58	46.00	-30.42	5.07	10.51	Average
9	5.848	30.52	60.00	-29.48	19.70	10.82	QP
10	5.848	22.04	50.00	-27.96	11.22	10.82	Average
11	8.299	25.01	60.00	-34.99	14.21	10.80	QP
12	8.299	18.84	50.00	-31.16	8.04	10.80	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)	Measured Value (kHz)	Limit (kHz)	Result
GFSK (1 Mbps)	2402	669	>500	Pass
	2440	654	>500	Pass
	2480	654	>500	Pass

GFSK (1 Mbps) / 2440 MHz



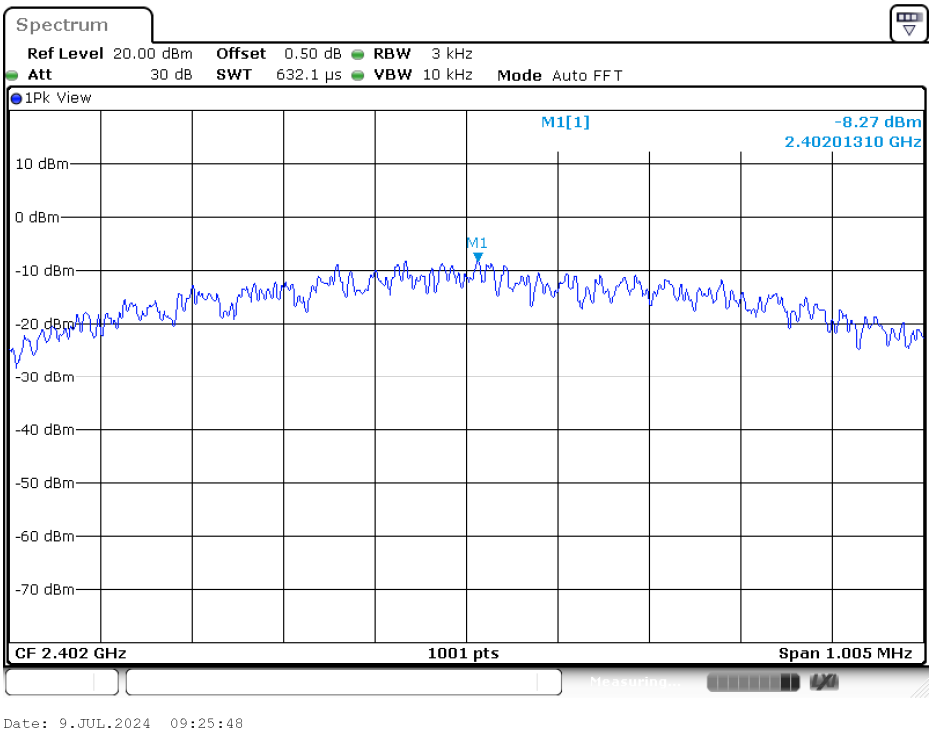
Appendix C. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Result
GFSK (1 Mbps)	2402	6.84	30.00	Pass
	2440	6.73	30.00	Pass
	2480	6.84	30.00	Pass

Appendix D. Test Result of Power Spectral Density

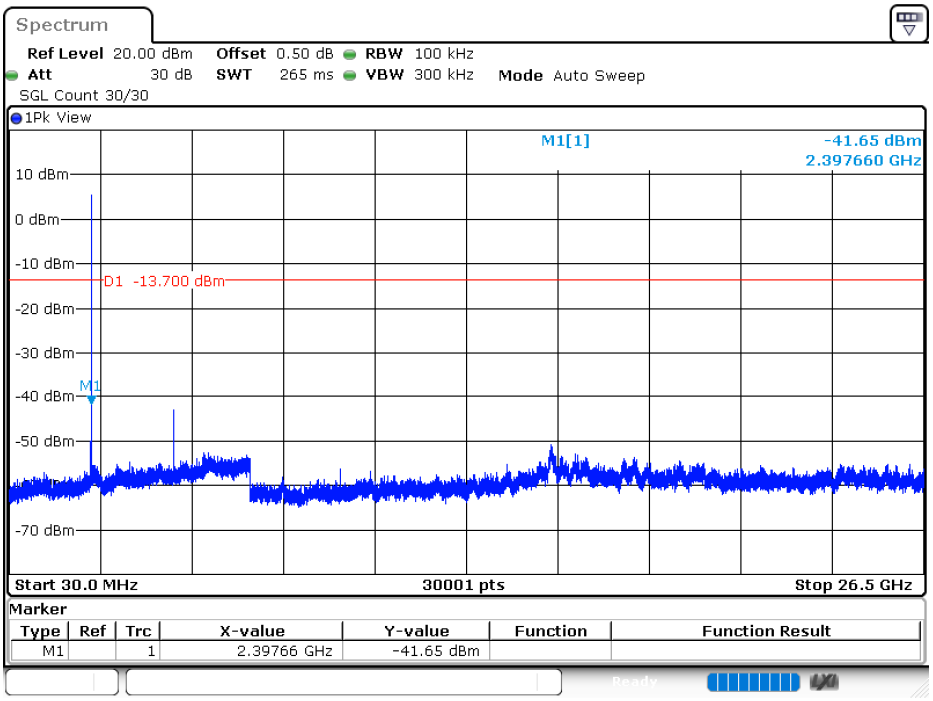
Modulation	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK (1 Mbps)	2402	-8.27	8.00	Pass
	2440	-8.55	8.00	Pass
	2480	-9.26	8.00	Pass

GFSK (1 Mbps) / 2402 MHz

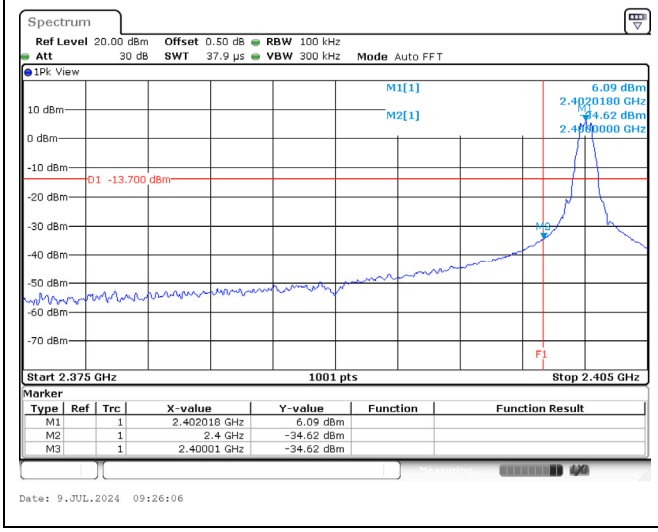
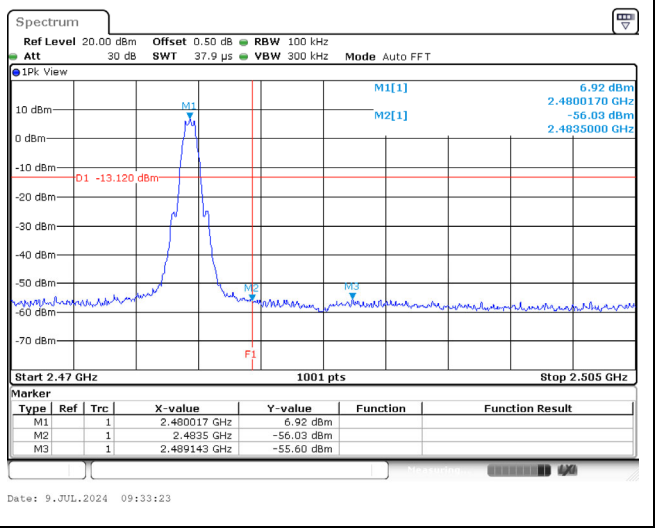


Appendix E. Test Result of Antenna Port Conducted Emission

GFSK (1 Mbps) / 2402 MHz

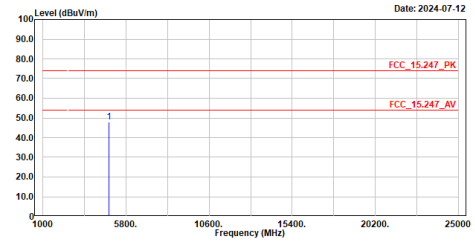


Modulation	Measurement Level Δ (dB)	Result
GFSK (1 Mbps)	> 20	PASS

GFSK (1 Mbps) / 2402 MHz	GFSK (1 Mbps) / 2480 MHz
	

Appendix F. Test Result of Radiated Emission

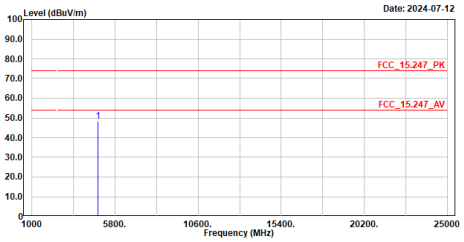
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BLE1M_2402MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4804.000	48.08	74.00	-25.92	55.22	-7.14	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.

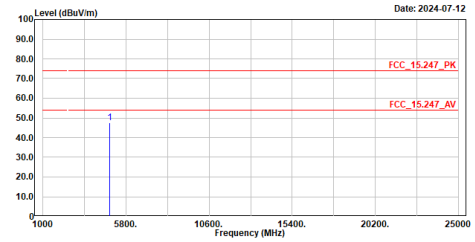
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BLE1M_2402MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4804.000	48.48	74.00	-25.52	55.62	-7.14	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.

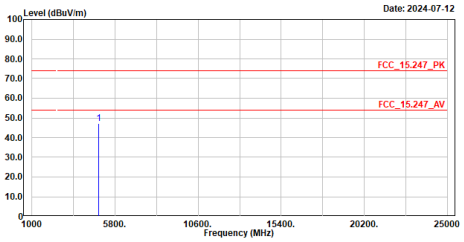
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BLE1M_2440MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4880.000	47.45	74.00	-26.55	54.26	-6.81	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.

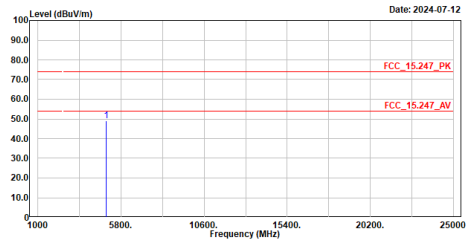
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BLE1M_2440MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4880.000	47.24	74.00	-26.76	54.05	-6.81	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.

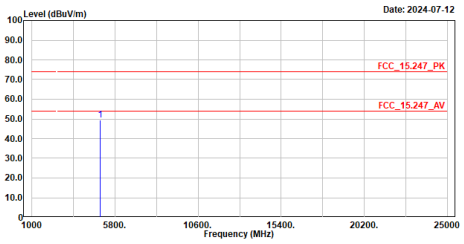
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BLE1M_2480MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4960.000	48.94	74.00	-25.06	55.45	-6.51	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.

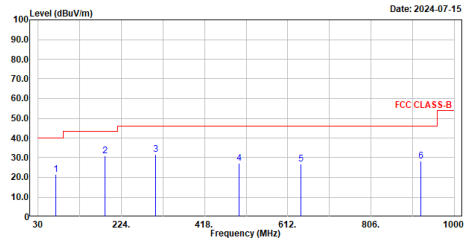
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BLE1M_2480MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	4960.000	49.39	74.00	-24.61	55.90	-6.51	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.

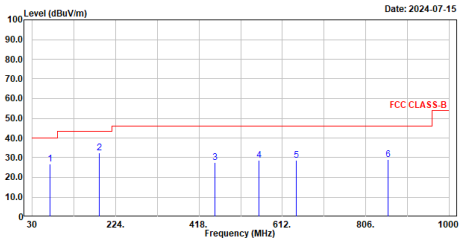
Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BLE1M_2440MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	71.613	21.55	40.00	-18.45	47.75	-26.20	QP
2	185.685	30.88	43.50	-12.62	56.56	-25.68	QP
3	304.510	31.72	46.00	-14.28	54.27	-22.55	QP
4	497.831	27.34	46.00	-18.66	44.98	-17.64	QP
5	641.973	26.82	46.00	-19.18	41.41	-14.59	QP
6	921.527	28.31	46.00	-17.69	38.87	-10.56	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.

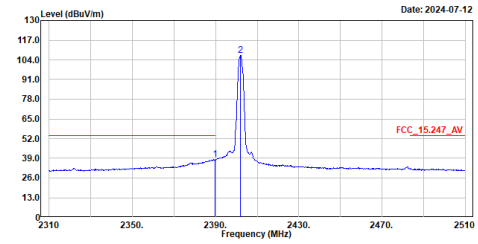
Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BLE1M_2440MHz
Test by :Rock



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	70.837	26.89	40.00	-13.11	53.05	-26.16	QP
2	185.879	32.54	43.50	-10.96	58.26	-25.72	QP
3	454.666	27.43	46.00	-18.57	45.75	-18.32	QP
4	557.680	28.58	46.00	-17.42	44.94	-16.36	QP
5	643.622	28.58	46.00	-17.42	43.17	-14.59	QP
6	858.671	28.96	46.00	-17.04	40.40	-11.44	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.

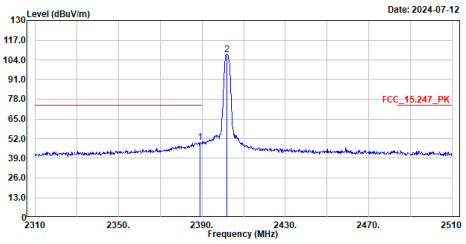
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_BLE1M_2402MHz
Test by :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2389.800	38.48	54.00	-15.52	32.39	6.09	Average
2	2402.000	106.92	------	------	100.92	6.00	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.

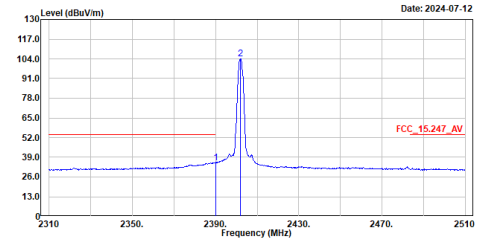
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_BLE1M_2402MHz
Test by :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2389.200	49.60	74.00	-24.40	43.51	6.09	Peak
2	2402.000	107.52	------	------	101.52	6.00	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.

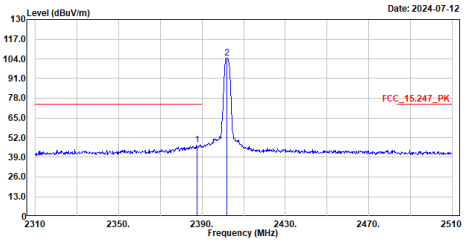
Site :HY-CB02
Condition :3m ,Vertical
mode :TX_BLE1M_2402MHz
Test by :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2390.000	35.52	54.00	-18.48	29.43	6.09	Average
2	2402.000	104.11	------	------	98.11	6.00	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.

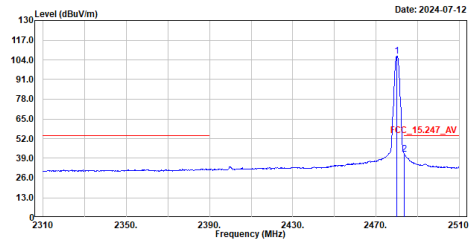
Site :HY-CB02
Condition :3m ,Vertical
mode :TX_BLE1M_2402MHz
Test by :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2387.600	47.11	74.00	-26.89	41.02	6.09	Peak
2	2402.000	104.63	------	------	98.63	6.00	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.

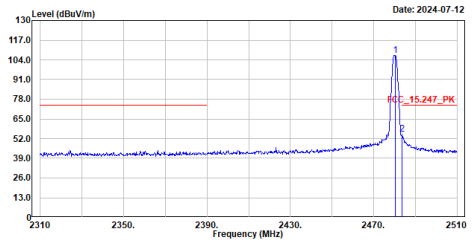
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_BLE1M_2480MHz
Test by :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.000	106.33	------	------	100.39	5.94	Average
2	2483.600	41.69	54.00	-12.31	35.71	5.98	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.

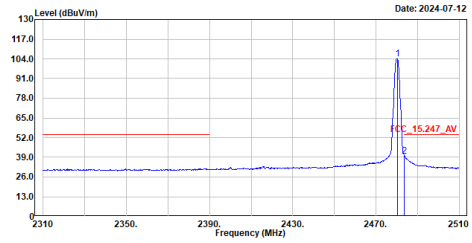
Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_BLE1M_2480MHz
Test by :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.200	106.89	------	------	100.95	5.94	Peak
2	2483.600	54.80	74.00	-19.20	48.82	5.98	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.

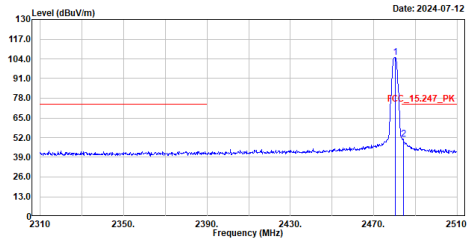
Site :HY-CB02
Condition :3m ,Vertical
mode :TX_BLE1M_2480MHz
Test by :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.200	104.24	------	------	98.30	5.94	Average
2	2483.600	39.89	54.00	-14.11	33.91	5.98	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 :Nova



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	2480.200	104.77	------	------	98.83	5.94	Peak
2	2484.200	50.90	74.00	-23.10	44.92	5.98	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.