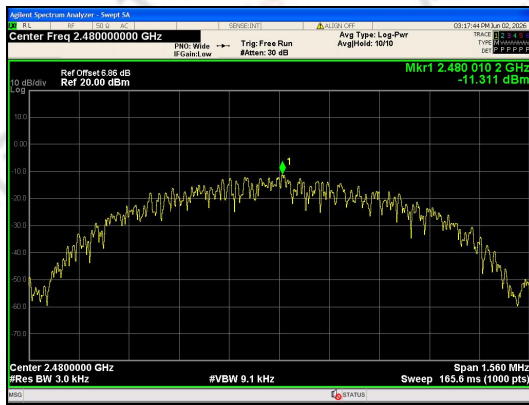
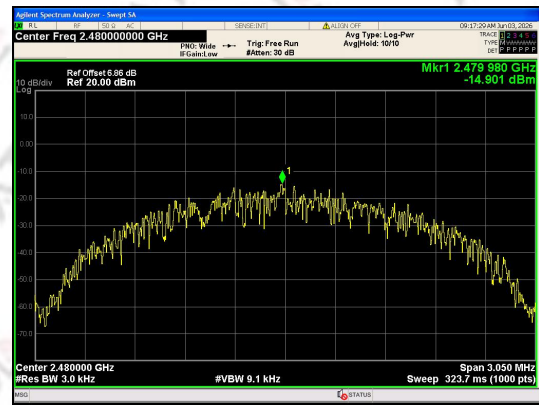
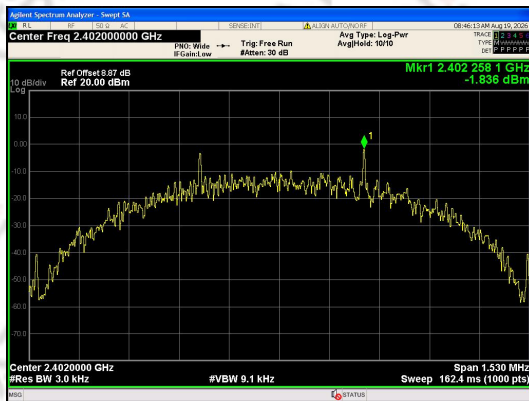




BLE 1M_Channel 39



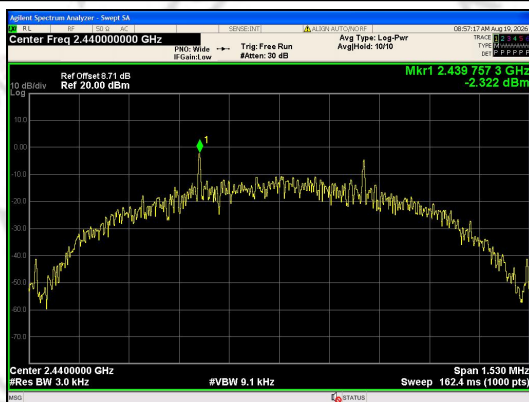
BLE 2M_Channel 39



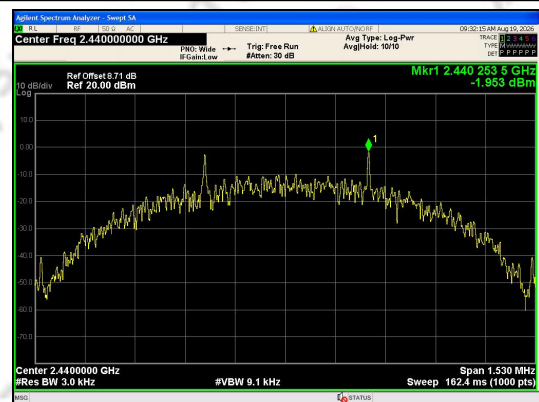
LE Coded (S=2)_Channel 0



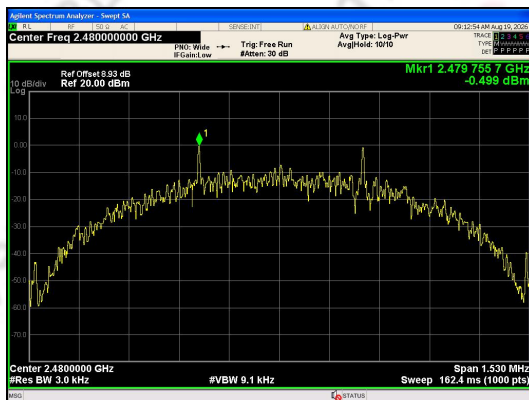
LE Coded (S=8)_Channel 0



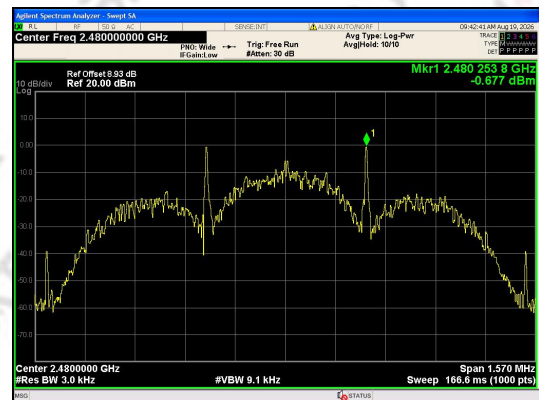
LE Coded (S=2)_Channel 19



LE Coded (S=8)_Channel 19



LE Coded (S=2)_Channel 39



LE Coded (S=8)_Channel 39

Conducted Spurious & Band Edge Emission

Note: The maximum loss of the test system for testing at 30MHz-26.5GHz is 17.2dB. The offset on the test chart is the offset of the main frequency, and the margin is sufficient to offset the difference between the maximum loss of the system and the offset of the main frequency.

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
BLE 1M	0	2400.00	-53.751	-16.36	-37.391	PASS
		4804.26	-61.922	-16.36	-45.562	PASS
		7205.75	-59.530	-16.36	-43.170	PASS
		9607.24	-60.240	-16.36	-43.880	PASS
		24686.0	-48.236	-16.36	-31.876	PASS
	19	4878.55	-60.656	-16.09	-44.566	PASS
		7321.86	-61.697	-16.09	-45.607	PASS
		9758.94	-61.549	-16.09	-45.459	PASS
		24634.2	-48.572	-16.09	-32.482	PASS
	39	2483.50	-56.407	-15.84	-40.567	PASS
		4959.70	-60.092	-15.84	-44.252	PASS
		7441.72	-60.557	-15.84	-44.717	PASS
		9921.87	-61.470	-15.84	-45.630	PASS
		24790.2	-48.639	-15.84	-32.799	PASS
BLE 2M	0	2400.00	-30.583	-17.15	-13.433	PASS
		4802.39	-60.898	-17.15	-43.748	PASS
		7205.75	-60.563	-17.15	-43.413	PASS
		9607.24	-60.974	-17.15	-43.824	PASS
		24667.9	-48.550	-17.15	-31.400	PASS
	19	4879.17	-61.570	-16.96	-44.610	PASS
		7321.86	-61.671	-16.96	-44.711	PASS
		9758.94	-61.943	-16.96	-44.983	PASS
		24621.1	-48.442	-16.96	-31.482	PASS
	39	2483.50	-55.285	-16.62	-38.665	PASS
		4959.08	-61.185	-16.62	-44.565	PASS
		7439.22	-60.277	-16.62	-43.657	PASS
		9921.87	-62.992	-16.62	-46.372	PASS
		24534.9	-48.741	-16.62	-32.121	PASS
LE Coded (S=2)	0	2391.90	-53.538	-15.36	-38.178	PASS
		2400.00	-53.559	-15.36	-38.199	PASS
		4804.90	-64.548	-15.36	-49.188	PASS
		7206.40	-64.546	-15.36	-49.186	PASS
		9609.10	-64.573	-15.36	-49.213	PASS

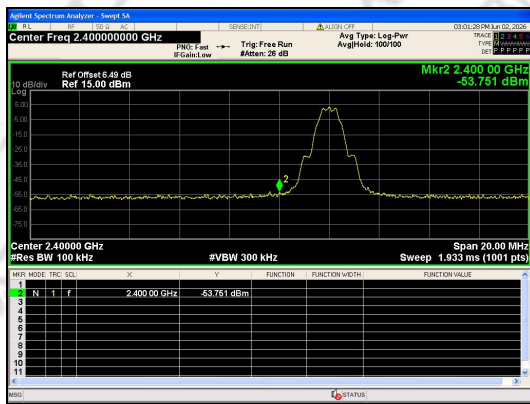
	19	24695.4	-53.059	-15.36	-37.699	PASS
		4881.05	-64.269	-15.81	-48.459	PASS
		5241.86	-37.142	-15.81	-21.332	PASS
		7320.62	-65.513	-15.81	-49.703	PASS
		9758.31	-64.954	-15.81	-49.144	PASS
	39	2483.50	-54.617	-14.27	-40.347	PASS
		4960.95	-65.254	-14.27	-50.984	PASS
		7441.10	-63.858	-14.27	-49.588	PASS
		9918.74	-64.795	-14.27	-50.525	PASS
		24589.9	-52.071	-14.27	-37.801	PASS
LE Coded (S=8)	0	2400.00	-53.478	-15.27	-38.208	PASS
		4803.64	-65.801	-15.27	-50.531	PASS
		5231.88	-42.958	-15.27	-27.688	PASS
		7205.75	-63.178	-15.27	-47.908	PASS
		9606.62	-63.564	-15.27	-48.294	PASS
	19	4881.67	-64.945	-15.57	-49.375	PASS
		5246.23	-49.752	-15.57	-34.182	PASS
		7321.86	-64.062	-15.57	-48.492	PASS
		9758.94	-64.365	-15.57	-48.795	PASS
	39	2483.50	-54.006	-14.56	-39.446	PASS
		4958.45	-64.832	-14.56	-50.272	PASS
		7439.85	-65.391	-14.56	-50.831	PASS
		9919.37	-66.142	-14.56	-51.582	PASS
		24697.2	-52.215	-14.56	-37.655	PASS
	Note: input compensation coefficient (dB)= Cable Loss (dB)					



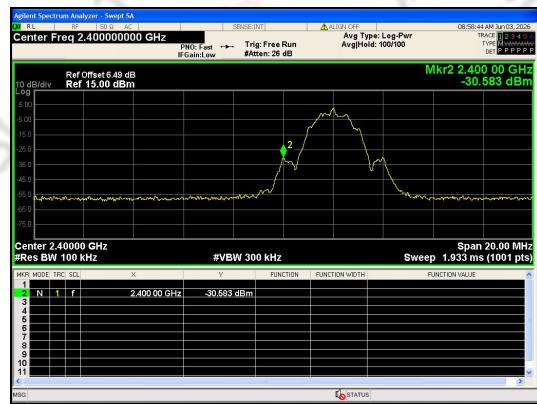
In-Band Reference Level
BLE 1M_Channel 0



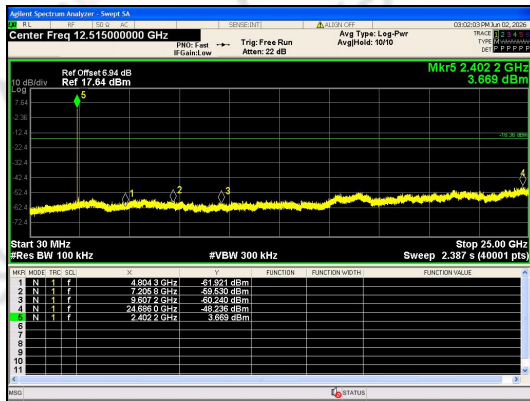
In-Band Reference Level
BLE 2M_Channel 0



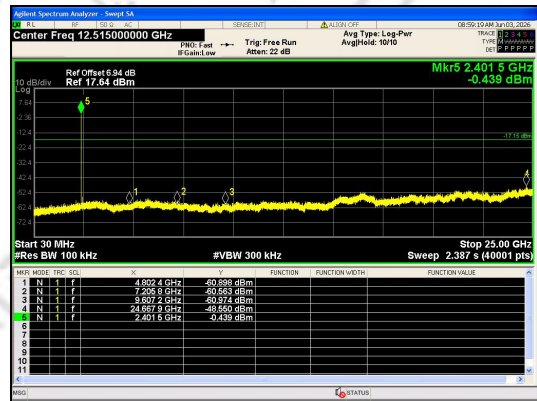
Out Of Band Emission
BLE 1M_Channel 0



Out Of Band Emission
BLE 2M_Channel 0



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



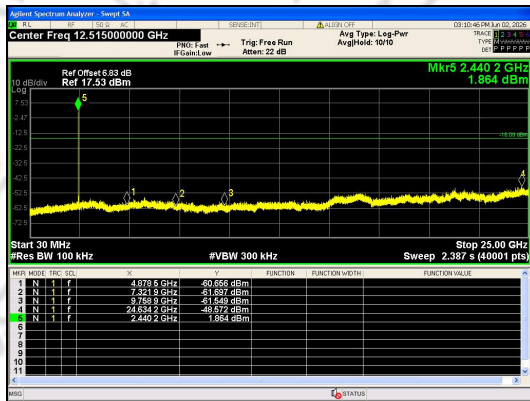
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



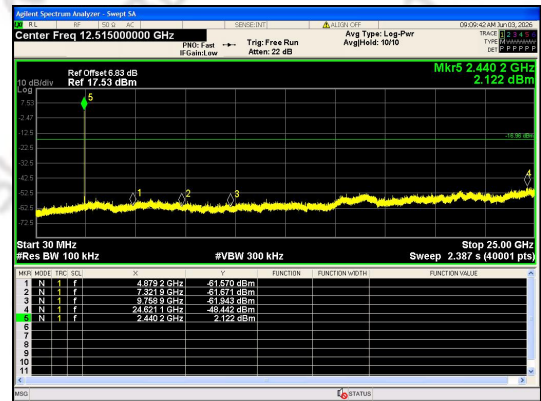
In-Band Reference Level
BLE 1M_Channel 19



In-Band Reference Level
BLE 2M_Channel 19



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



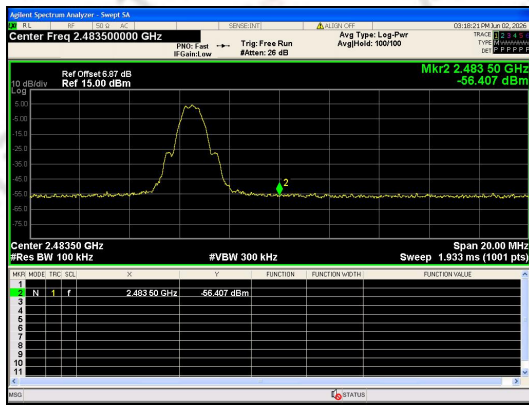
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



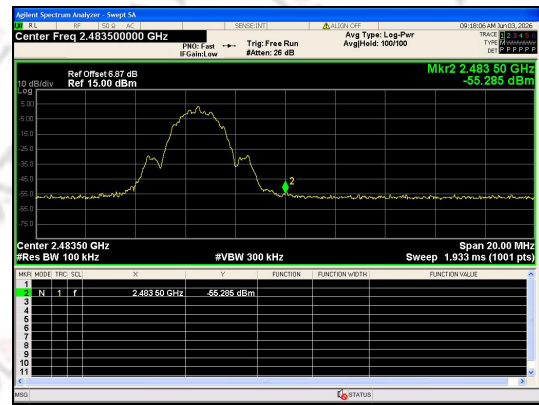
In-Band Reference Level
BLE 1M_Channel 39



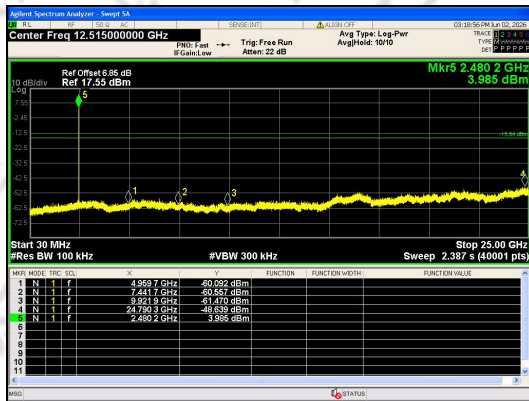
In-Band Reference Level
BLE 2M_Channel 39



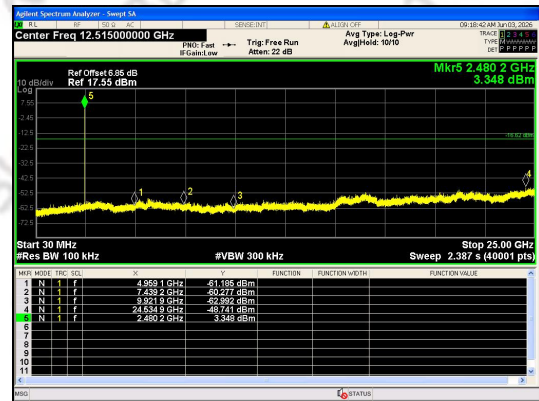
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



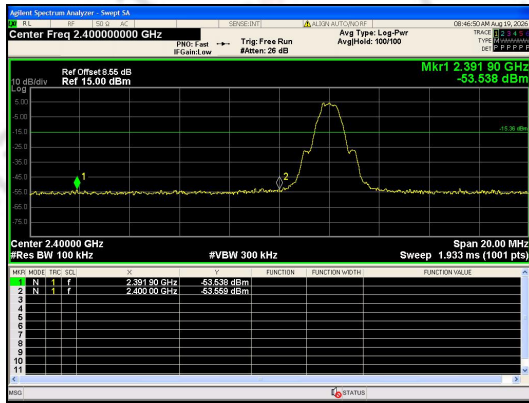
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39



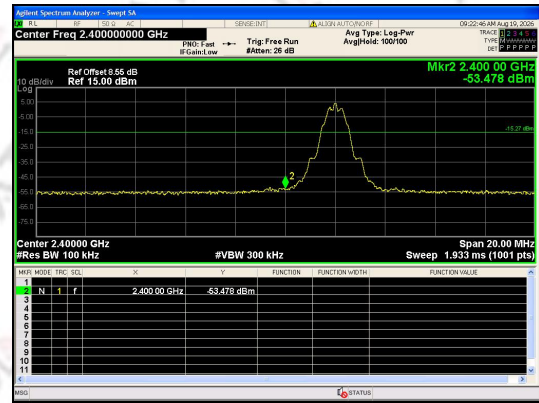
In-Band Reference Level
LE Coded (S=2)_Channel 0



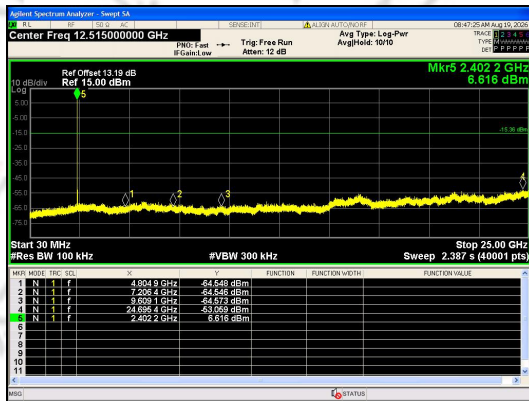
In-Band Reference Level
LE Coded (S=8)_Channel 0



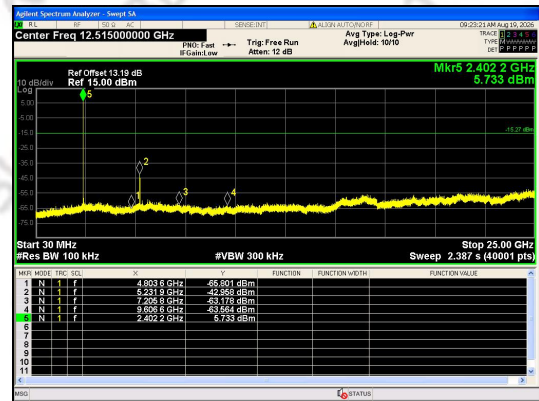
Out Of Band Emission
LE Coded (S=2)_Channel 0



Out Of Band Emission
LE Coded (S=8)_Channel 0



30.0 MHz - 25000.0 MHz
LE Coded (S=2)_Channel 0



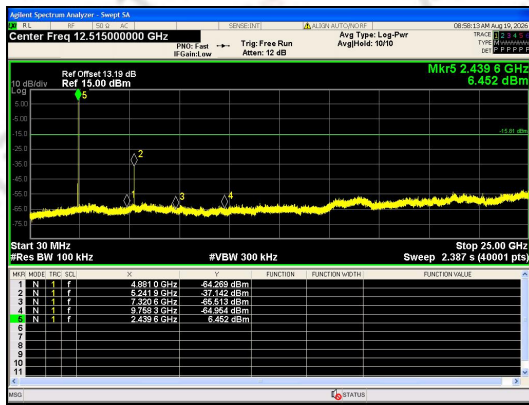
30.0 MHz - 25000.0 MHz
LE Coded (S=8)_Channel 0



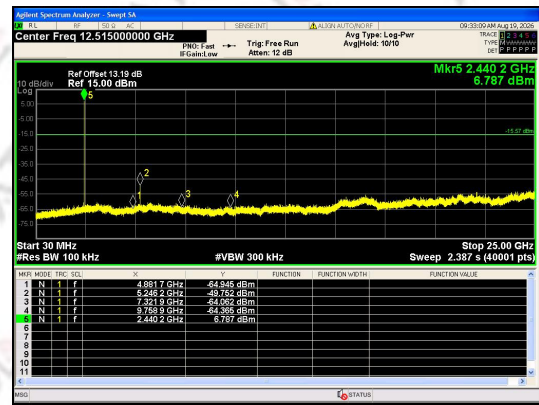
In-Band Reference Level
LE Coded (S=2)_Channel 19



In-Band Reference Level
LE Coded (S=8)_Channel 19



30.0 MHz - 25000.0 MHz
LE Coded (S=2)_Channel 19



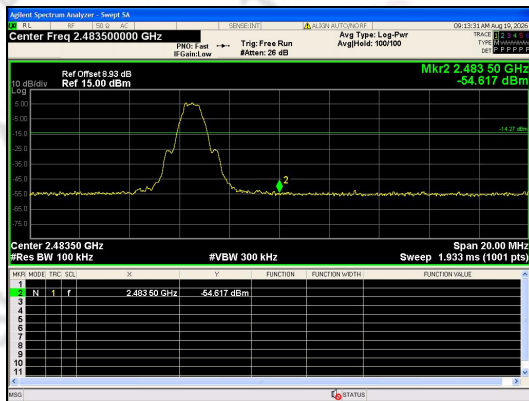
30.0 MHz - 25000.0 MHz
LE Coded (S=8)_Channel 19



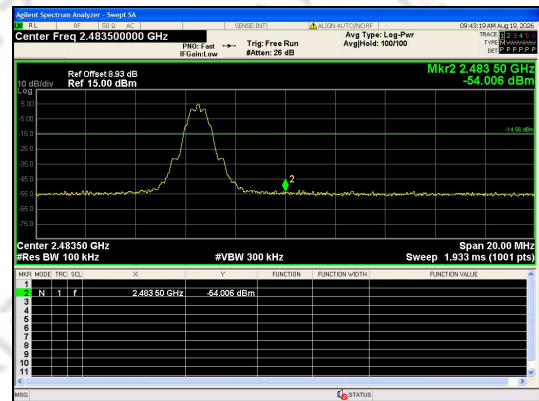
In-Band Reference Level
LE Coded (S=2)_Channel 39



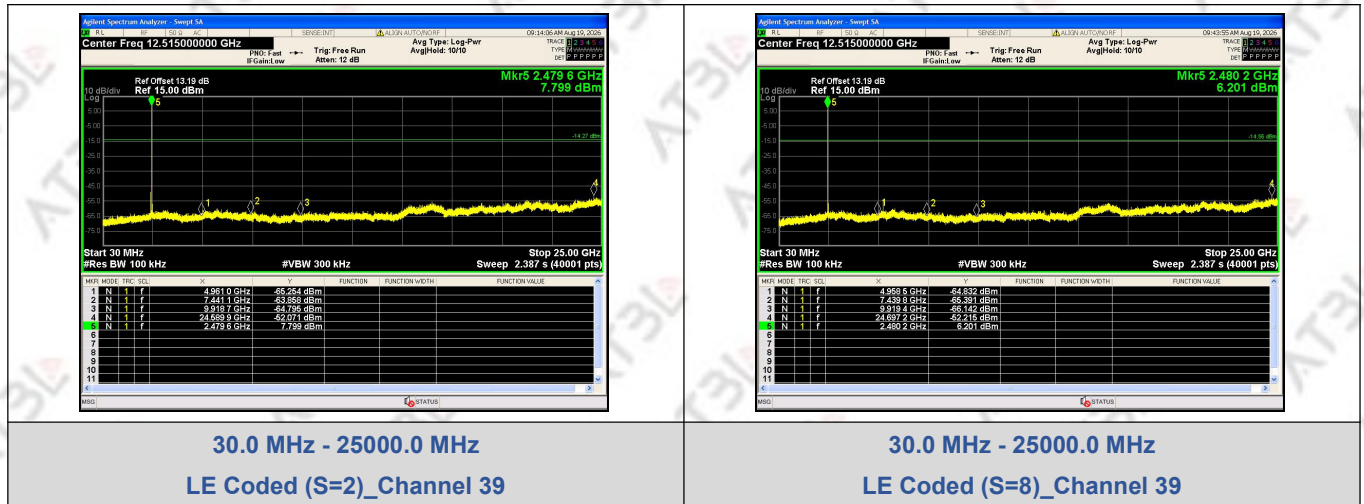
In-Band Reference Level
LE Coded (S=8)_Channel 39



Out Of Band Emission
LE Coded (S=2)_Channel 39



Out Of Band Emission
LE Coded (S=8)_Channel 39



Radiated Test Data

Radiated Spurious Emission

Radiated Emission (9KHz-30MHz)

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Radiated Emission (30MHz-1GHz)

Note:

1. All modes have been tested, only worst case mode (BLE 1M) was recorded in the test report.
 2. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
 3. $\text{Factor} = \text{Cable Loss} + \text{Antenna Factor} - \text{Amplifier Gain}$
 4. $\text{Reading} = \text{Level} - \text{factor}$
-

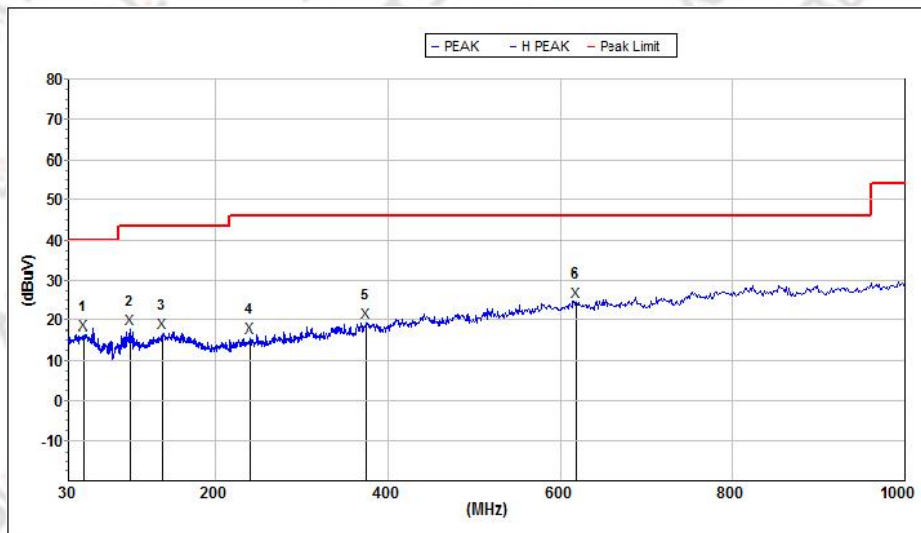
Radiated Emission (Above 1GHz)

Note:

1. All modes have been tested, only worst case mode (BLE 1M) was recorded in the test report.
 2. We used the filter to test and the main frequency was filtered out.
 3. Other 18G-25G Emission detected are more than 20dB below the limit, so no need to be reported.
 4. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
 5. $\text{Factor} = \text{Cable Loss} + \text{Antenna Factor} - \text{Amplifier Gain}$
 6. $\text{Reading} = \text{Level} - \text{factor}$
-

Radiated Emission (30MHz-1GHz)

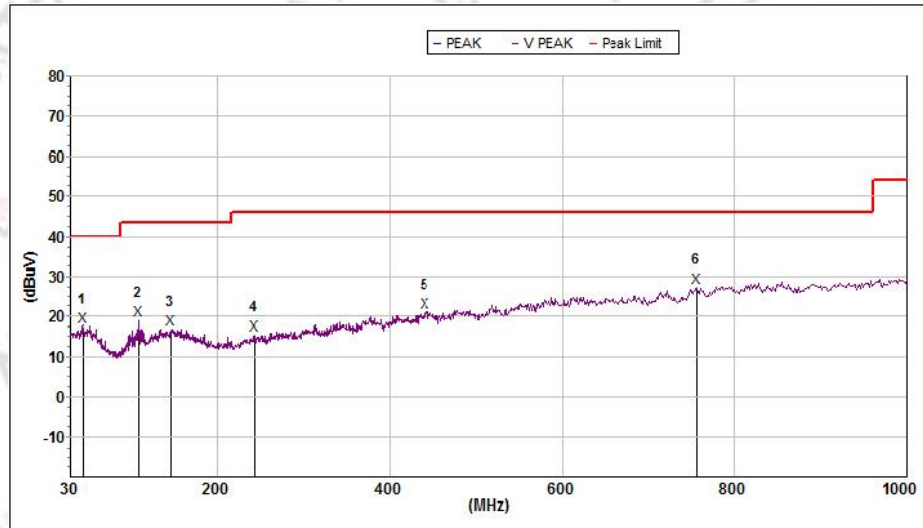
Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	BLE 1M-2402MHz	Comment:	30MHz-1GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	48.417	16.4	40.0	23.6	-10.3	31.0	1.2	H
2	100.757	17.7	43.5	25.8	-14.6	30.8	1.3	H
3	138.630	17.0	43.5	26.5	-11.5	31.2	1.5	H
4	240.408	15.8	46.0	30.2	-12.9	32.0	1.9	H
5	375.280	19.4	46.0	26.6	-9.9	33.0	2.3	H
6	618.537	24.8	46.0	21.2	-2.8	31.7	2.8	H

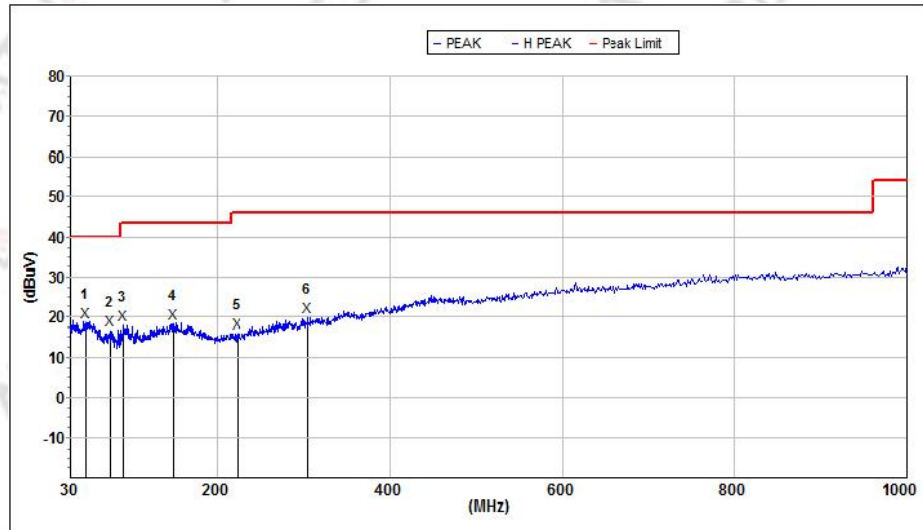
Temperature:	24 °C	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	BLE 1M-2402MHz	Comment:	30MHz-1GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	44.120	17.5	40.0	22.5	-11.1	31.4	1.1	V
2	108.077	19.0	43.5	24.5	-14.0	30.9	1.4	V
3	147.145	17.0	43.5	26.5	-10.9	31.3	1.5	V
4	243.804	15.4	46.0	30.6	-12.7	32.0	1.9	V
5	440.969	21.2	46.0	24.8	-6.9	32.5	3.0	V
6	755.387	27.5	46.0	18.5	-1.1	32.0	3.2	V

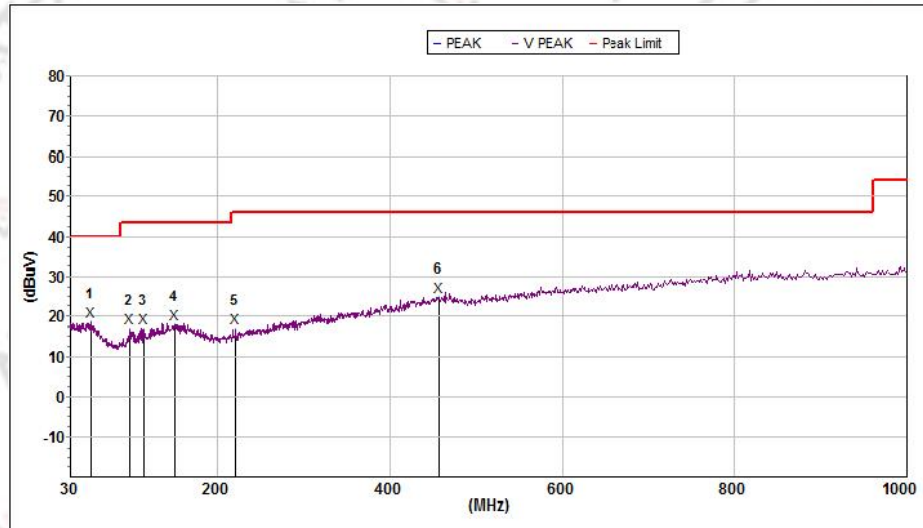
Temperature:	24°C	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	BLE 1M-2440MHz	Comment:	30MHz-1GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	48.417	18.9	40.0	21.1	-19.2	39.9	1.2	H
2	75.977	16.7	40.0	23.3	-23.8	40.5	1.3	H
3	90.537	18.2	43.5	25.3	-24.3	40.4	1.3	H
4	148.702	18.4	43.5	25.1	-19.7	40.3	1.5	H
5	222.950	16.1	46.0	29.9	-21.7	40.1	1.8	H
6	304.076	20.2	46.0	25.8	-18.5	39.9	2.1	H

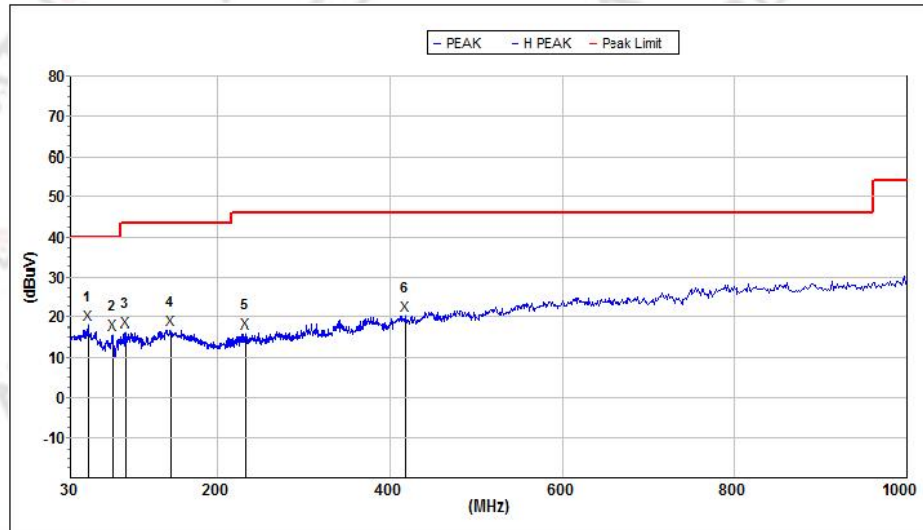
Temperature:	24 °C	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	BLE 1M-2440MHz	Comment:	30MHz-1GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	53.693	18.8	40.0	21.2	-19.8	40.0	1.2	V
2	97.798	17.1	43.5	26.4	-24.2	40.3	1.3	V
3	113.714	17.3	43.5	26.2	-22.9	40.3	1.4	V
4	150.538	18.0	43.5	25.5	-19.5	40.2	1.5	V
5	219.845	17.1	46.0	28.9	-21.8	40.1	1.8	V
6	457.507	25.1	46.0	20.9	-12.9	39.0	3.1	V

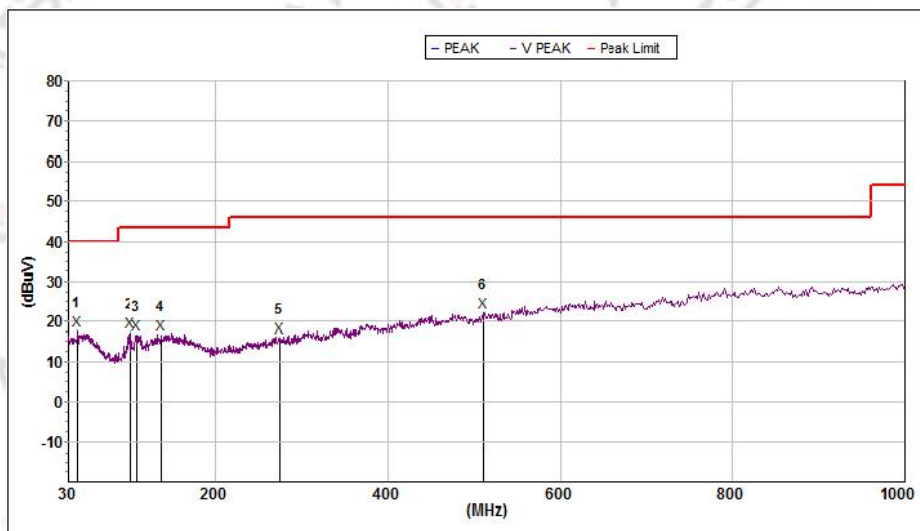
Temperature:	24°C	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	BLE 1M-2480MHz	Comment:	30MHz-1GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	50.321	18.0	40.0	22.0	-10.2	30.9	1.2	H
2	78.002	15.9	40.0	24.1	-15.9	32.3	1.3	H
3	93.933	16.6	43.5	26.9	-15.1	31.2	1.3	H
4	147.145	16.9	43.5	26.6	-10.9	31.3	1.5	H
5	234.168	16.1	46.0	29.9	-13.2	32.0	1.8	H
6	418.374	20.3	46.0	25.7	-8.3	32.9	2.6	H

Temperature:	24 °C	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	BLE 1M-2480MHz	Comment:	30MHz-1GHz

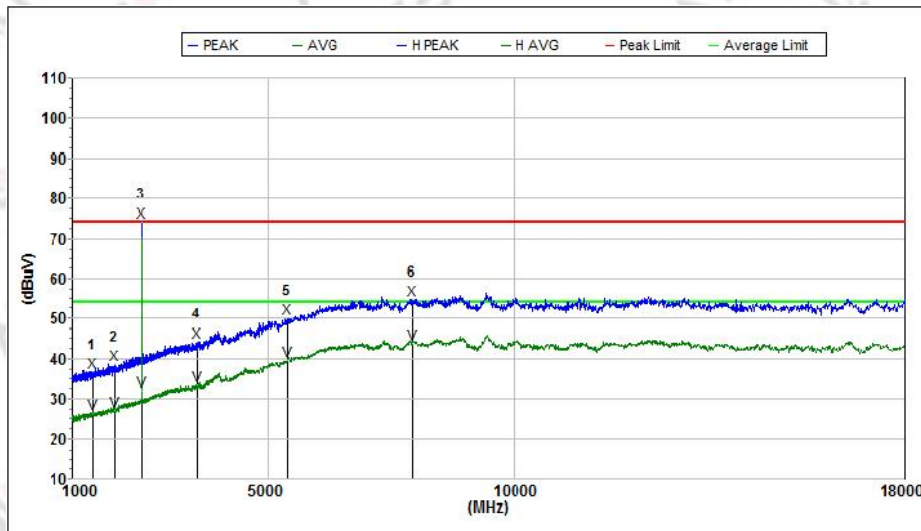


Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	40.630	17.9	40.0	22.1	-11.6	31.7	1.1	V
2	100.229	17.6	43.5	25.9	-14.7	30.8	1.3	V
3	107.510	17.0	43.5	26.5	-14.0	30.9	1.4	V
4	137.661	16.8	43.5	26.7	-11.6	31.2	1.5	V
5	274.194	16.3	46.0	29.7	-11.8	32.2	2.0	V
6	510.044	22.5	46.0	23.5	-5.3	31.5	2.5	V

Radiated Emission (Above 1GHz)

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	BLE 1M-2402MHz	Comment:	1GHz-18GHz

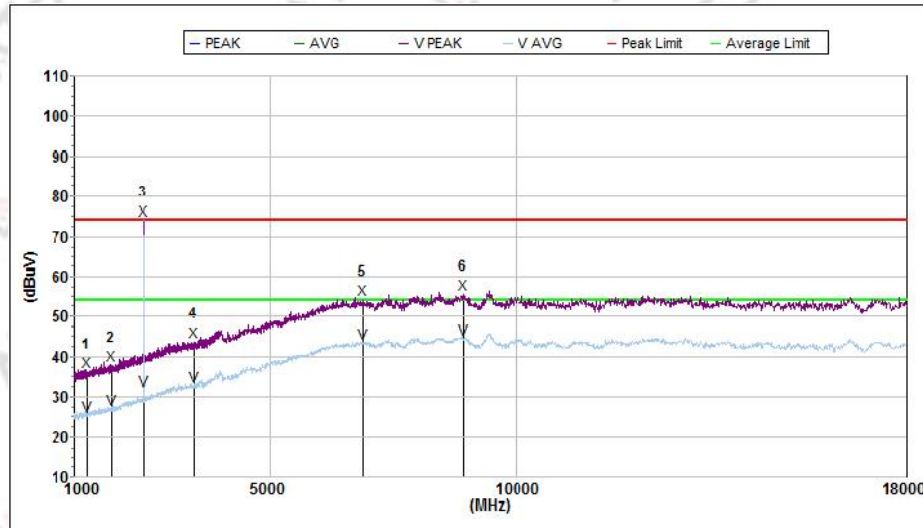


Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1405.000	36.7	74.0	37.3	-23.7	53.5	4.3	H
2	1847.500	38.6	74.0	35.4	-23.4	53.7	4.9	H
3	2401.000	74.3	74.0	-0.3	-21.1	54.1	5.6	H
4	3551.500	44.3	74.0	29.7	-17.0	53.7	7.1	H
5	5393.000	50.0	74.0	24.0	-10.3	52.3	9.1	H
6	7934.000	54.8	74.0	19.2	-4.3	52.0	10.9	H
Avg:								
1	1405.000	26.4	54.0	27.6	-23.7	53.5	4.3	H
2	1847.500	27.2	54.0	26.8	-23.4	53.7	4.9	H
3	2401.000	32.1	54.0	21.9	-21.1	54.1	5.6	H
4	3551.500	33.4	54.0	20.6	-17.0	53.7	7.1	H
5	5393.000	39.7	54.0	14.3	-10.3	52.3	9.1	H
6	7934.000	44.0	54.0	10.0	-4.3	52.0	10.9	H

Note:Point 3 serves as the primary frequency signal.

Temperature:	24 °C	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	BLE 1M-2402MHz	Comment:	1GHz-18GHz

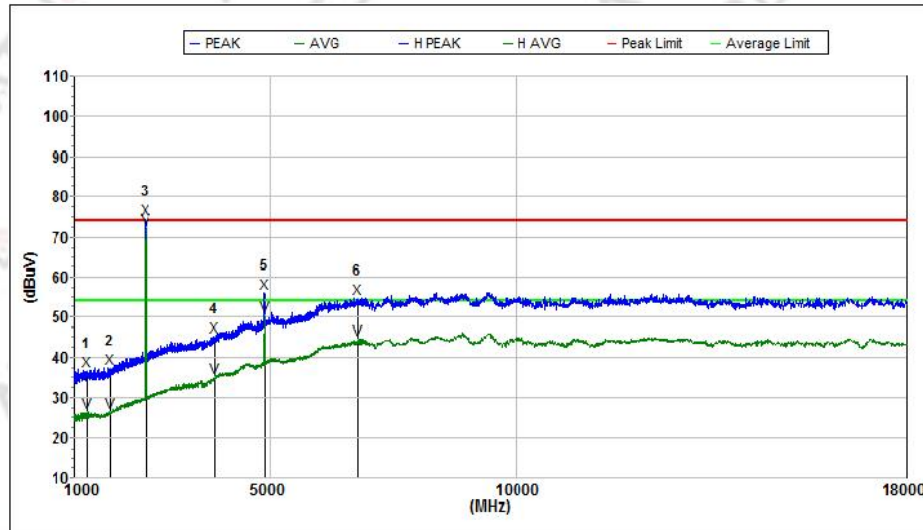


Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Factor (dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1247.500	36.2	74.0	37.8	-23.8	53.6	4.1	V
2	1747.000	37.9	74.0	36.1	-23.6	53.6	4.8	V
3	2401.000	74.3	74.0	-0.3	-21.1	54.1	5.6	V
4	3437.500	43.8	74.0	30.2	-17.4	53.8	6.9	V
5	6891.000	54.3	74.0	19.7	-4.9	51.7	11.0	V
6	8942.000	55.8	74.0	18.2	-2.6	52.5	12.1	V
Avg:								
1	1247.500	25.5	54.0	28.5	-23.8	53.6	4.1	V
2	1747.000	27.0	54.0	27.0	-23.6	53.6	4.8	V
3	2401.000	31.7	54.0	22.3	-21.1	54.1	5.6	V
4	3437.500	32.7	54.0	21.3	-17.4	53.8	6.9	V
5	6891.000	43.4	54.0	10.6	-4.9	51.7	11.0	V
6	8942.000	44.7	54.0	9.3	-2.6	52.5	12.1	V

Note:Point 3 serves as the primary frequency signal.

Temperature:	24°C	Relative Humidity:	53%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	BLE 1M-2440MHz	Comment:	1GHz-18GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Factor(dB)	Ant.F/G (dB)	Amp.G. (dB)	Pol.
Peak:								
1	1251.000	36.6	74.0	37.4	-23.8	53.5	4.1	H
2	1725.000	37.4	74.0	36.6	-23.7	53.6	4.7	H
3	2441.000	74.4	74.0	-0.4	-20.9	54.1	5.7	H
4	3846.000	45.3	74.0	28.7	-15.2	53.4	7.7	H
5	4882.000	56.1	74.0	17.9	-11.3	52.5	8.5	H
6	6792.000	54.6	74.0	19.4	-5.2	51.7	10.8	H
Avg:								
1	1251.000	26.3	54.0	27.7	-23.8	53.5	4.1	H
2	1725.000	26.5	54.0	27.5	-23.7	53.6	4.7	H
3	2441.000	72.6	54.0	-18.6	-20.9	54.1	5.7	H
4	3846.000	35.1	54.0	18.9	-15.2	53.4	7.7	H
5	4882.000	50.5	54.0	3.5	-11.3	52.5	8.5	H
6	6792.000	44.6	54.0	9.4	-5.2	51.7	10.8	H

Note:Point 3 serves as the primary frequency signal.