

TEST REPORT

Application No.: SZCR2411004486AT
Applicant: AltoBeam Inc.
Address of Applicant: B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian Beijing China
Manufacturer: AltoBeam Inc.
Address of Manufacturer: B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian Beijing China
Factory: AltoBeam Inc.
Address of Factory: C234, Research Institute of Tsinghua University, Shenzhen High-Tech Industrial Park, China

Equipment Under Test (EUT):

EUT Name: AB6031X-44PE Wi-Fi and BLE module
Model No.: AB6031X-44PE
Trade Mark: AltoBeam
FCC ID: 2BAVS-AB6031X-44PE
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-11-28
Date of Test: 2024-12-04 to 2025-01-02
Date of Issue: 2025-01-09

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager






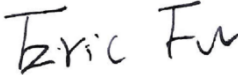
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100448601

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-01-09		Original

Authorized for issue by:				
				
		Bill Chen/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Spurious Emissions Below 1GHz	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: AB6031X-44PE

This test report (Ref. No.: SZCR241100448601) is only valid with the original test report (Ref. No.: SZCR230900307801).

According to the declaration from the applicant, the models in this report and models in original report were identical, only difference on the antenna.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report of section 2 were fully retested on model and shown the data in this report, other tests please refer to original report SZCR230900307801.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V
RF cable loss(Provided by the SGS):	0.5dB
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Rate data:	1Mbps and 2Mbps
Antenna Type:	Dipole
Antenna Gain:	C10 Antenna:3.3dBi C20 Antenna:1.41dBi T2351 Antenna:4.93dBi T2352 Antenna:3.52dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is C10 Antenna:3.3dBi C20 Antenna:1.41dBi T2351 Antenna:4.93dBi T2352 Antenna:3.52dBi.

Antenna location: Refer to External photo.



7 Radio Spectrum Matter Test Results

7.1 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

Humidity: 46.6 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode(1Mbps)(C10)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	TX mode(2Mbps)(C10)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	02	TX mode(1Mbps)(C20)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	03	TX mode(2Mbps)(C20)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(1Mbps)(T2351)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	05	TX mode(2Mbps)(T2351)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	06	TX mode(1Mbps)(T2352)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	07	TX mode(2Mbps)(T2352)_Keep the EUT in continuously transmitting mode with GFSK modulation.



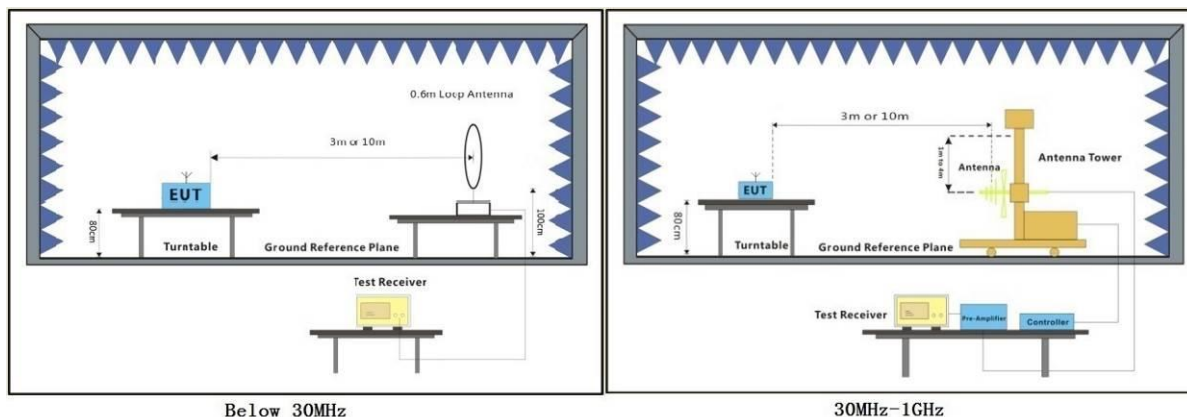
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7.1.3 Test Setup Diagram



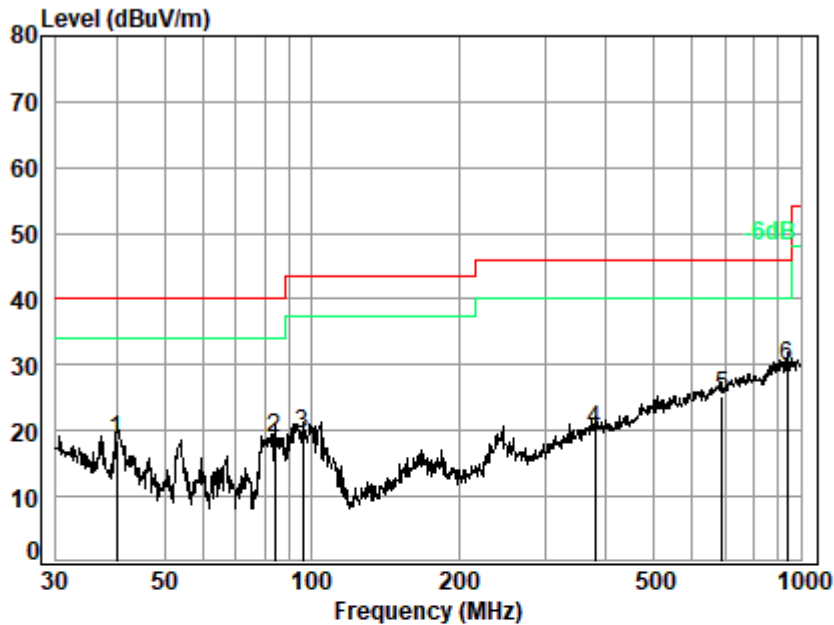
7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test Mode: 04; Polarity: Horizontal

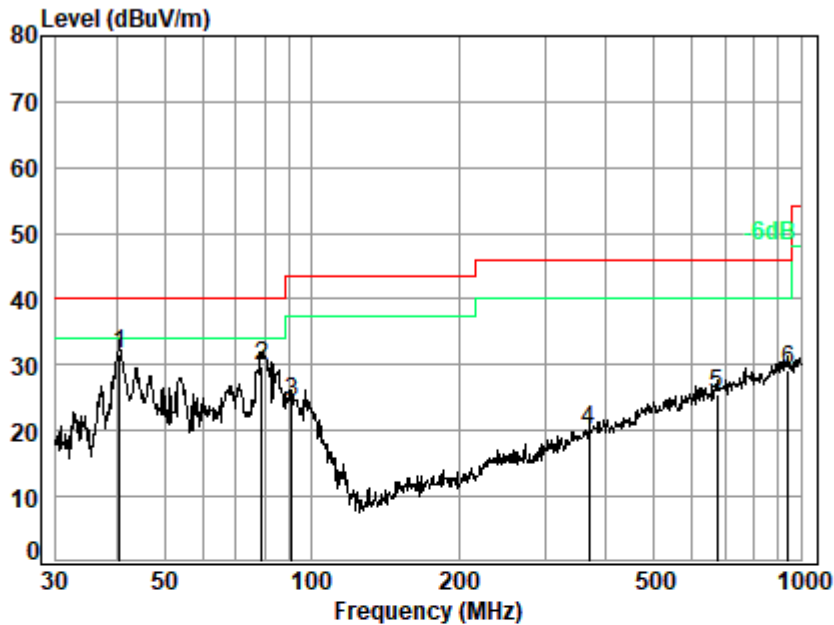


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04486AT/04487AT
Test Mode: 04

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	39.854	16.48	0.78	27.76	29.19	18.69	40.00 -21.31 QP
2	84.110	10.89	1.12	27.64	34.53	18.90	40.00 -21.10 QP
3	95.762	12.16	1.20	27.60	33.66	19.42	43.50 -24.08 QP
4	379.914	20.91	2.51	27.07	23.86	20.21	46.00 -25.79 QP
5	689.565	25.69	3.51	27.75	23.89	25.34	46.00 -20.66 QP
6 q	938.833	28.15	4.22	26.49	23.92	29.80	46.00 -16.20 QP



Test Mode: 04; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04486AT/04487AT

Test Mode: 04

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	40.417	16.20	0.78	27.76	42.48	31.70	40.00	-8.30 QP
2		78.965	10.41	1.08	27.65	46.02	29.86	40.00	-10.14 QP
3		91.175	11.83	1.17	27.62	38.83	24.21	43.50	-19.29 QP
4		369.405	20.41	2.47	27.03	24.14	19.99	46.00	-26.01 QP
5		675.208	25.71	3.47	27.79	24.20	25.59	46.00	-20.41 QP
6		942.131	28.19	4.23	26.46	23.26	29.22	46.00	-16.78 QP



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7.2 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 60.2 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)(C10)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	TX mode(2Mbps)(C10)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	02	TX mode(1Mbps)(C20)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	03	TX mode(2Mbps)(C20)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	TX mode(1Mbps)(T2351)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	05	TX mode(2Mbps)(T2351)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	06	TX mode(1Mbps)(T2352)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)(T2352)_Keep the EUT in continuously transmitting mode with GFSK modulation.



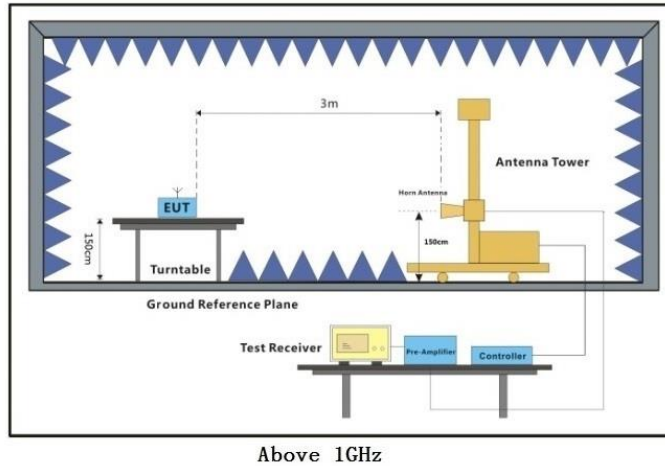
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

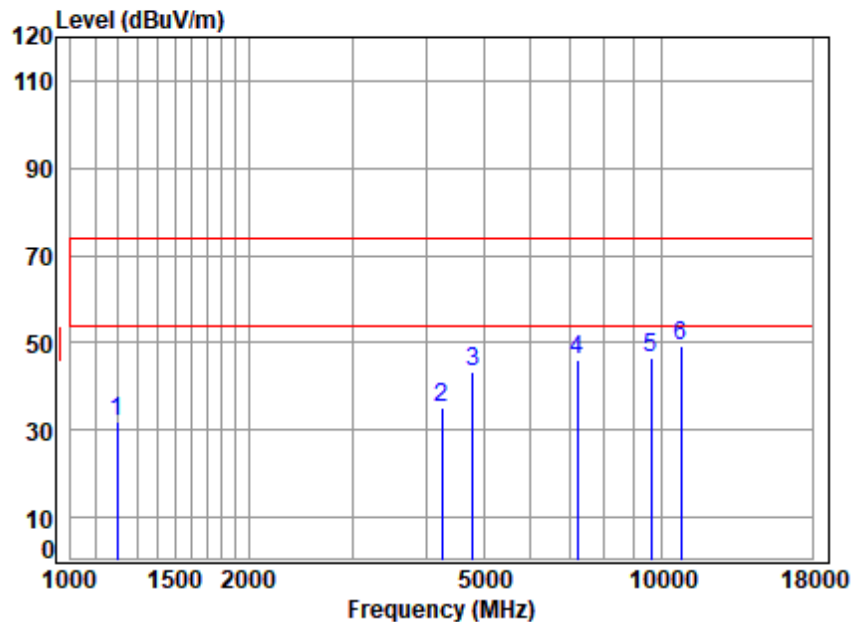
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

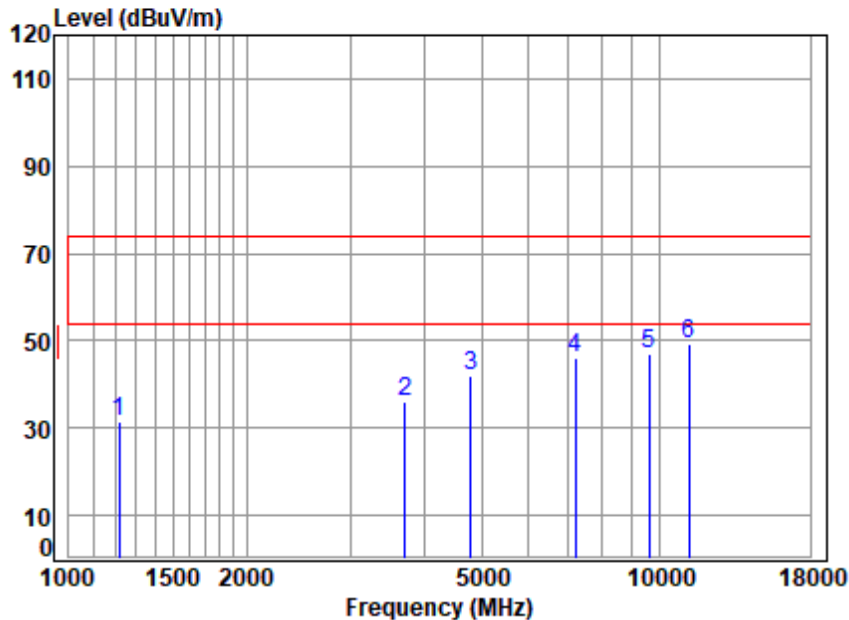
Mode : 2402 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	7.19	25.31	54.70	54.08	31.88	74.00	-42.12	peak
2	4254.921	8.48	31.12	55.78	51.09	34.91	74.00	-39.09	peak
3	4804.000	8.90	31.92	56.16	58.71	43.37	74.00	-30.63	peak
4	7206.000	11.10	36.60	56.54	54.78	45.94	74.00	-28.06	peak
5	9608.000	12.38	38.78	54.45	49.89	46.60	74.00	-27.40	peak
6	pp10791.690	13.49	39.31	53.62	50.11	49.29	74.00	-24.71	peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

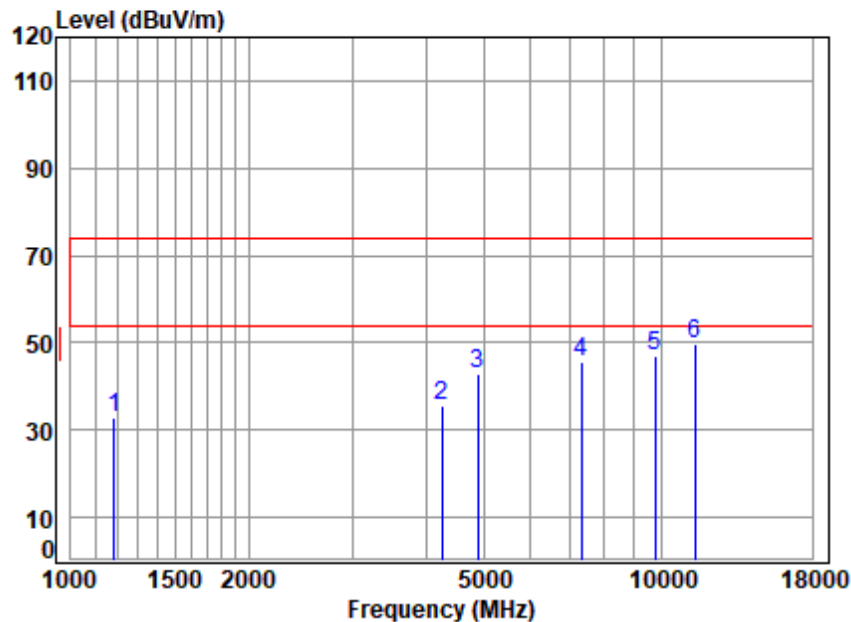
Mode : 2402 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	7.18	25.30	54.70	53.74	31.52	74.00	-42.48	peak
2	3714.443	7.91	29.83	55.43	53.96	36.27	74.00	-37.73	peak
3	4804.000	8.90	31.92	56.16	57.42	42.08	74.00	-31.92	peak
4	7206.000	11.10	36.60	56.54	54.73	45.89	74.00	-28.11	peak
5	9608.000	12.38	38.78	54.45	50.10	46.81	74.00	-27.19	peak
6	pp11204.900	14.25	39.60	53.56	49.10	49.39	74.00	-24.61	peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

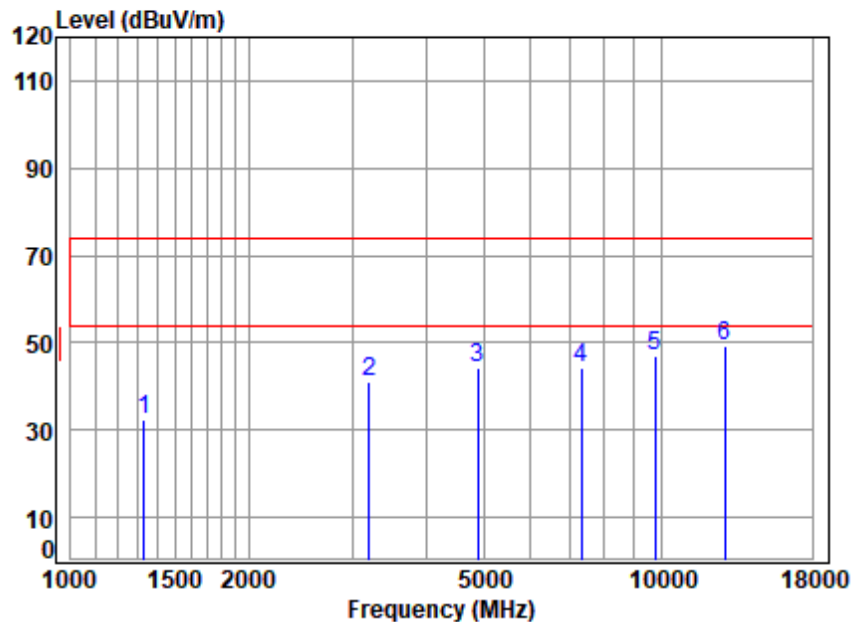
Mode : 2440 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	7.17	25.33	54.70	54.90	32.70	74.00	-41.30	peak
2	4254.921	8.48	31.12	55.78	51.64	35.46	74.00	-38.54	peak
3	4880.000	8.98	32.16	56.22	58.04	42.96	74.00	-31.04	peak
4	7320.000	11.12	36.74	56.44	54.26	45.68	74.00	-28.32	peak
5	9760.000	12.84	38.60	54.32	49.96	47.08	74.00	-26.92	peak
6	11400.910	14.10	39.70	53.62	49.52	49.70	74.00	-24.30	peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

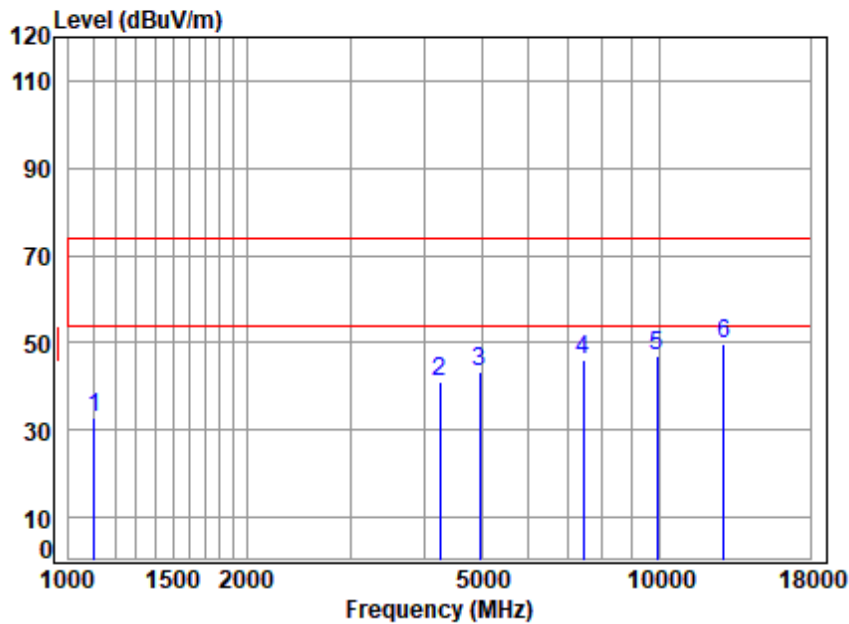
Mode : 2440 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1331.288	7.17	25.14	54.70	54.94	32.55	74.00	-41.45	peak
2	3196.094	7.70	29.20	55.12	59.11	40.89	74.00	-33.11	peak
3	4880.000	8.98	32.16	56.22	59.30	44.22	74.00	-29.78	peak
4	7320.000	11.12	36.74	56.44	52.73	44.15	74.00	-29.85	peak
5	9760.000	12.84	38.60	54.32	49.87	46.99	74.00	-27.01	peak
6	pp12798.240	15.15	40.30	54.36	48.36	49.45	74.00	-24.55	peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

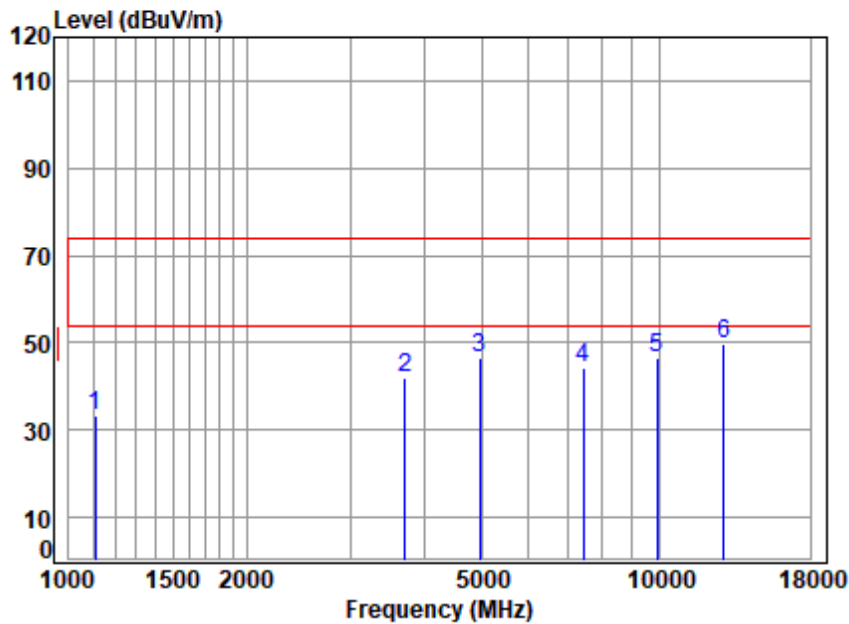
Mode : 2480 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1106.457	7.11	25.57	54.70	54.74	32.72	74.00	-41.28	peak
2	4254.921	8.48	31.12	55.78	57.09	40.91	74.00	-33.09	peak
3	4960.000	9.07	32.20	56.27	58.25	43.25	74.00	-30.75	peak
4	7440.000	11.08	36.78	56.35	54.74	46.25	74.00	-27.75	peak
5	9920.000	12.73	38.90	54.17	49.73	47.19	74.00	-26.81	peak
6	pp12835.290	15.18	40.34	54.38	48.38	49.52	74.00	-24.48	peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

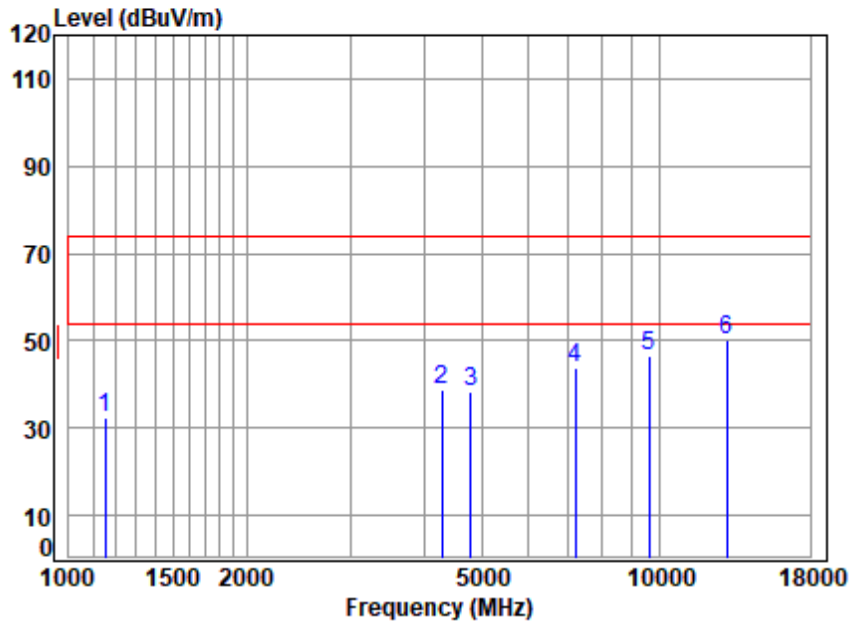
Mode : 2480 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1109.660	7.11	25.56	54.70	55.19	33.16	74.00	-40.84	peak
2	3714.443	7.91	29.83	55.43	59.84	42.15	74.00	-31.85	peak
3	4960.000	9.07	32.20	56.27	61.67	46.67	74.00	-27.33	peak
4	7440.000	11.08	36.78	56.35	52.77	44.28	74.00	-29.72	peak
5	9920.000	12.73	38.90	54.17	49.07	46.53	74.00	-27.47	peak
6	pp12835.290	15.18	40.34	54.38	48.44	49.58	74.00	-24.42	peak



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

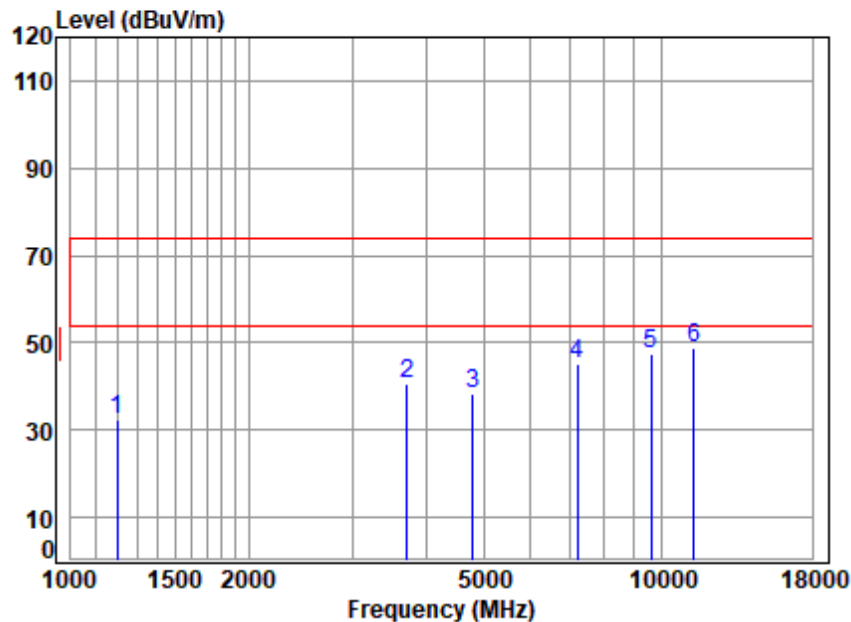
Mode : 2402 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	7.15	25.40	54.70	54.67	32.52	74.00	-41.48	peak
2	4279.589	8.46	31.22	55.80	54.86	38.74	74.00	-35.26	peak
3	4804.000	8.90	31.92	56.16	53.57	38.23	74.00	-35.77	peak
4	7206.000	11.10	36.60	56.54	52.68	43.84	74.00	-30.16	peak
5	9608.000	12.38	38.78	54.45	49.96	46.67	74.00	-27.33	peak
6	pp12984.540	15.26	40.32	54.49	48.89	49.98	74.00	-24.02	peak



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

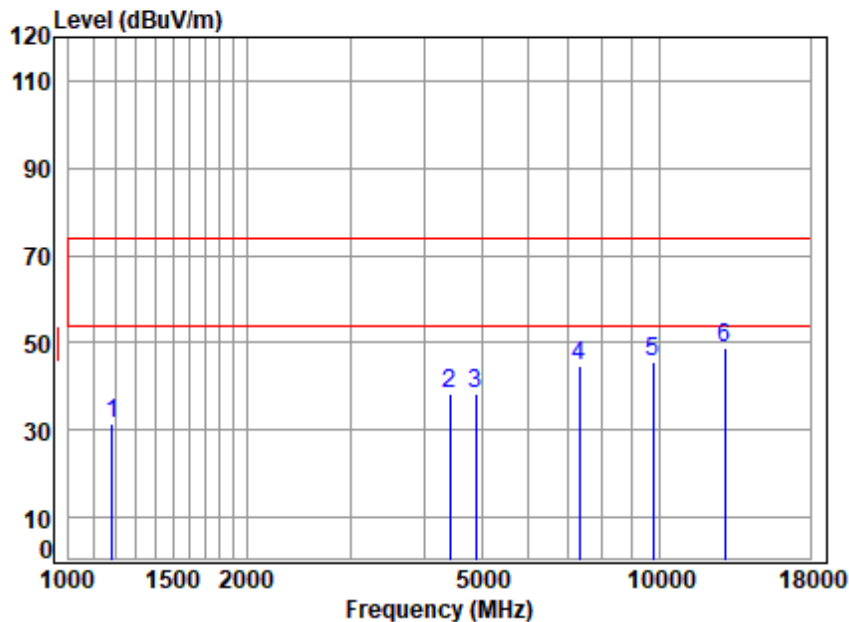
Mode : 2402 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	7.19	25.30	54.70	54.50	32.29	74.00	-41.71	peak
2	3714.443	7.91	29.83	55.43	58.46	40.77	74.00	-33.23	peak
3	4804.000	8.90	31.92	56.16	53.83	38.49	74.00	-35.51	peak
4	7206.000	11.10	36.60	56.54	53.93	45.09	74.00	-28.91	peak
5	9608.000	12.38	38.78	54.45	50.80	47.51	74.00	-26.49	peak
6	pp11335.190	14.29	39.70	53.60	48.54	48.93	74.00	-25.07	peak



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

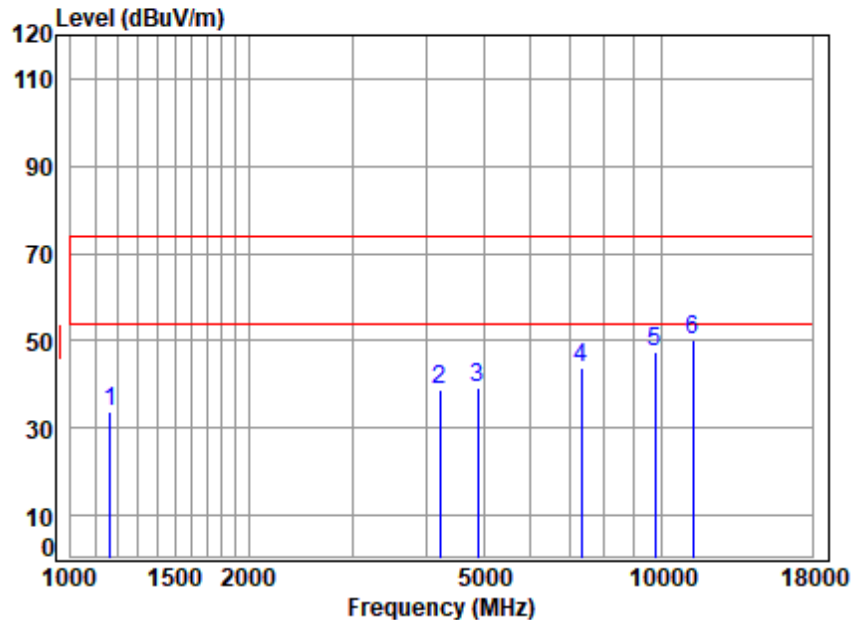
Mode : 2440 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	7.18	25.33	54.70	53.75	31.56	74.00	-42.44	peak
2	4417.841	8.54	31.27	55.89	54.46	38.38	74.00	-35.62	peak
3	4880.000	8.98	32.16	56.22	53.47	38.39	74.00	-35.61	peak
4	7320.000	11.12	36.74	56.44	53.25	44.67	74.00	-29.33	peak
5	9760.000	12.84	38.60	54.32	48.43	45.55	74.00	-28.45	peak
6	pp12909.700	15.24	40.39	54.44	47.71	48.90	74.00	-25.10	peak



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

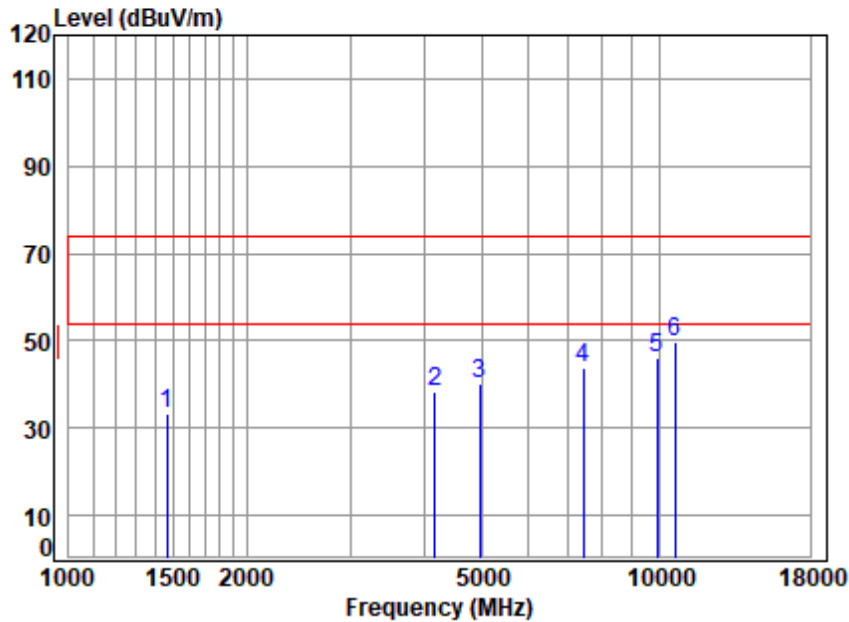
Mode : 2440 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	7.16	25.37	54.70	55.87	33.70	74.00	-40.30	peak
2	4218.186	8.50	30.91	55.75	55.07	38.73	74.00	-35.27	peak
3	4880.000	8.98	32.16	56.22	54.11	39.03	74.00	-34.97	peak
4	7320.000	11.12	36.74	56.44	52.26	43.68	74.00	-30.32	peak
5	9760.000	12.84	38.60	54.32	50.28	47.40	74.00	-26.60	peak
6	pp11302.480	14.39	39.70	53.59	49.69	50.19	74.00	-23.81	peak



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

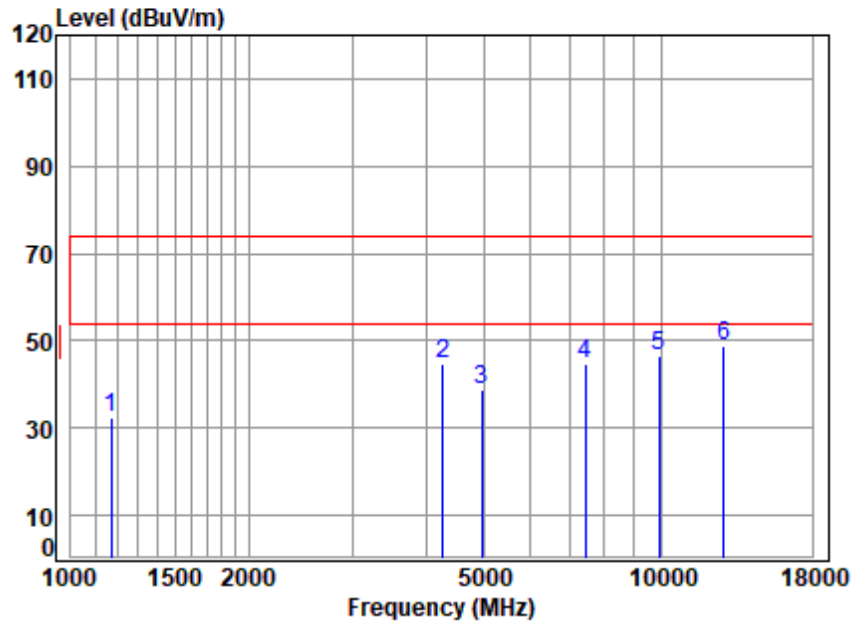
Mode : 2480 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1464.522	7.22	25.04	54.70	55.70	33.26	74.00	-40.74	peak
2	4169.698	8.46	30.62	55.72	55.08	38.44	74.00	-35.56	peak
3	4960.000	9.07	32.20	56.27	54.96	39.96	74.00	-34.04	peak
4	7440.000	11.08	36.78	56.35	52.34	43.85	74.00	-30.15	peak
5	9920.000	12.73	38.90	54.17	48.42	45.88	74.00	-28.12	peak
6	pp10636.850	13.44	39.34	53.72	50.51	49.57	74.00	-24.43	peak



Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

Mode : 2480 TX RSE

: BLE 2M

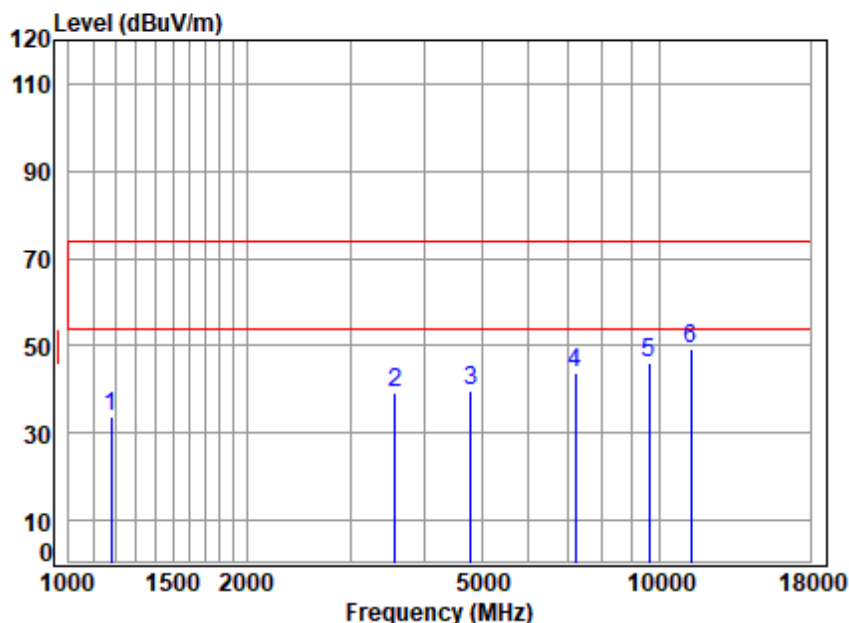
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1172.303	7.17	25.36	54.70	54.59	32.42	74.00 -41.58 peak
2	4267.237	8.47	31.17	55.79	60.93	44.78	74.00 -29.22 peak
3	4960.000	9.07	32.20	56.27	53.72	38.72	74.00 -35.28 peak
4	7440.000	11.08	36.78	56.35	52.98	44.49	74.00 -29.51 peak
5	9920.000	12.73	38.90	54.17	49.09	46.55	74.00 -27.45 peak
6	pp12761.300	15.07	40.26	54.33	47.99	48.99	74.00 -25.01 peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

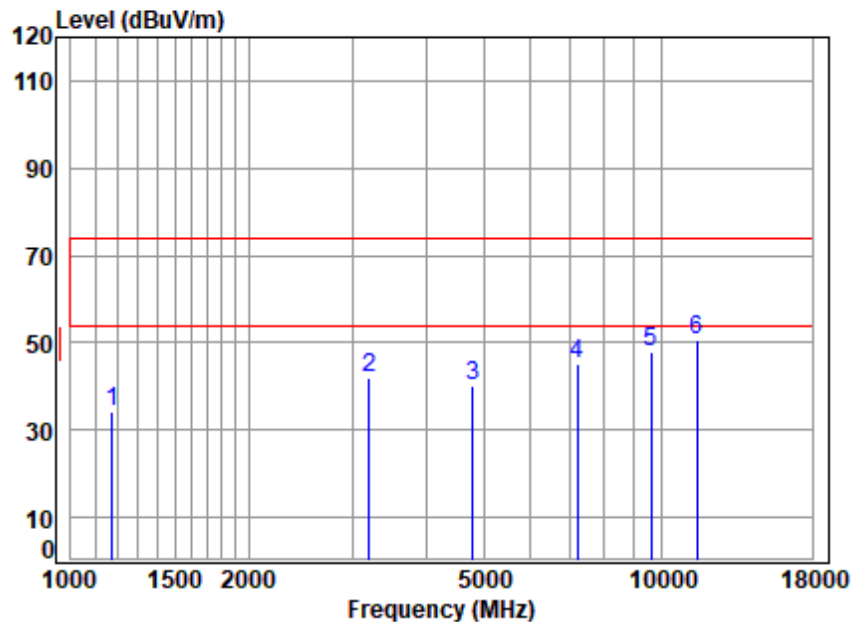
Mode : 2402 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1179.100	7.17	25.34	54.70	56.06	33.87	74.00	-40.13	peak
2	3567.138	7.75	29.83	55.34	57.14	39.38	74.00	-34.62	peak
3	4804.000	8.90	31.92	56.16	54.95	39.61	74.00	-34.39	peak
4	7206.000	11.10	36.60	56.54	52.43	43.59	74.00	-30.41	peak
5	9608.000	12.38	38.78	54.45	49.38	46.09	74.00	-27.91	peak
6	pp11302.480	14.39	39.70	53.59	49.00	49.50	74.00	-24.50	peak



Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

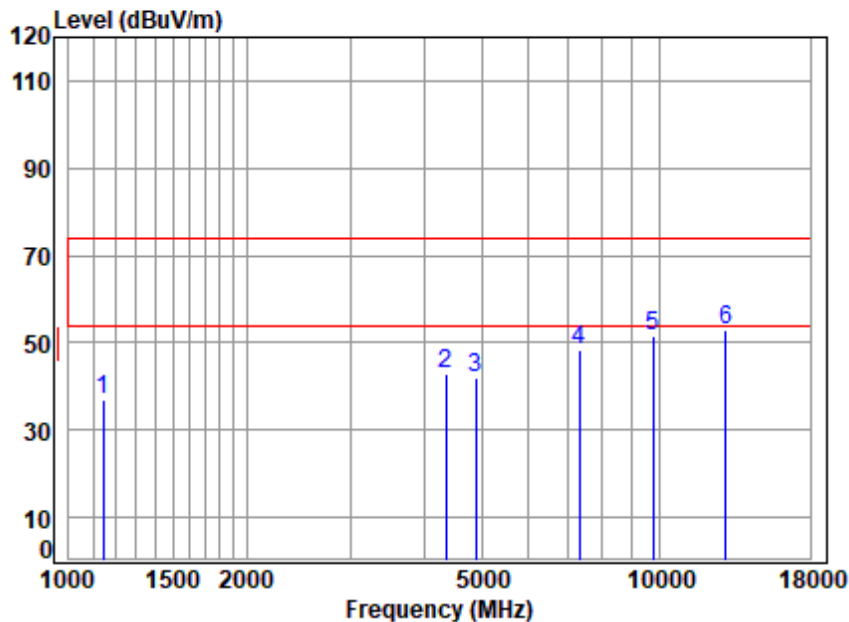
Mode : 2402 TX RSE

: BLE 1M

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	7.17	25.35	54.70	56.44	34.26	74.00	-39.74 peak
2	3196.094	7.70	29.20	55.12	60.20	41.98	74.00	-32.02 peak
3	4804.000	8.90	31.92	56.16	55.61	40.27	74.00	-33.73 peak
4	7206.000	11.10	36.60	56.54	54.01	45.17	74.00	-28.83 peak
5	9608.000	12.38	38.78	54.45	51.24	47.95	74.00	-26.05 peak
6	pp11467.000	14.19	39.63	53.64	50.51	50.69	74.00	-23.31 peak



Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

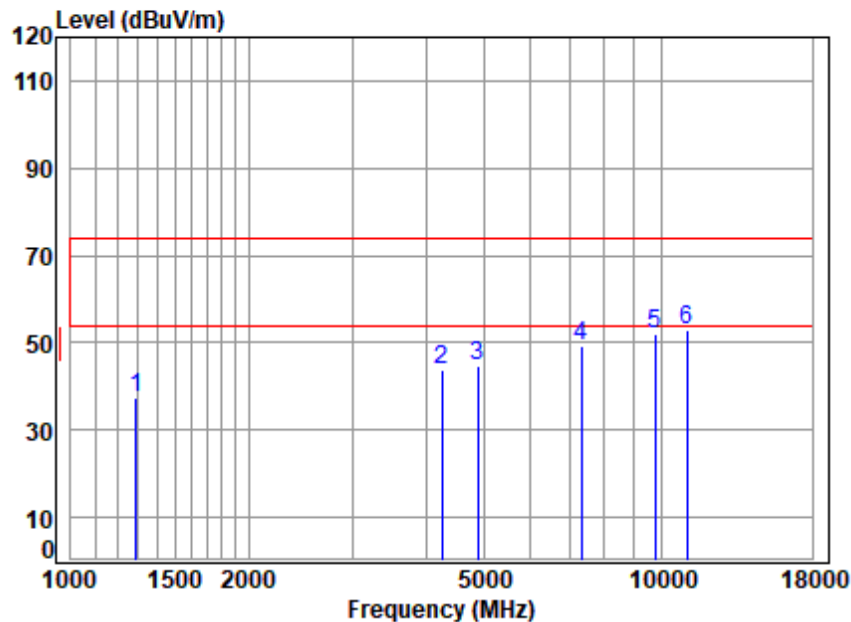
Mode : 2440 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	7.14	25.42	54.70	58.90	36.76	74.00	-37.24	peak
2	4354.454	8.50	31.29	55.85	59.07	43.01	74.00	-30.99	peak
3	4880.000	8.98	32.16	56.22	57.24	42.16	74.00	-31.84	peak
4	7320.000	11.12	36.74	56.44	56.82	48.24	74.00	-25.76	peak
5	9760.000	12.84	38.60	54.32	54.39	51.51	74.00	-22.49	peak
6	pp12947.070	15.25	40.35	54.46	51.57	52.71	74.00	-21.29	peak



Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

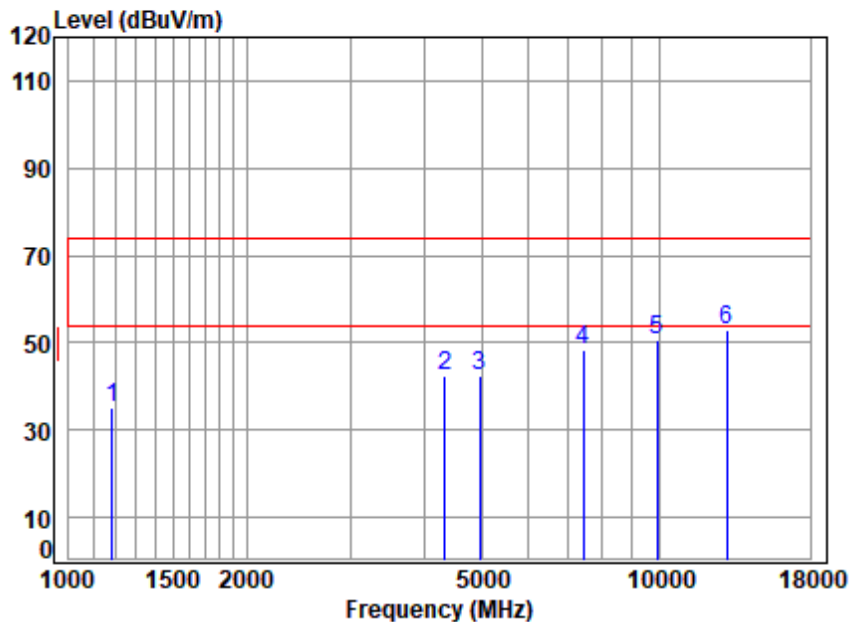
Mode : 2440 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	7.15	25.22	54.70	59.89	37.56	74.00	-36.44	peak
2	4242.641	8.48	31.06	55.77	60.19	43.96	74.00	-30.04	peak
3	4880.000	8.98	32.16	56.22	59.68	44.60	74.00	-29.40	peak
4	7320.000	11.12	36.74	56.44	57.74	49.16	74.00	-24.84	peak
5	9760.000	12.84	38.60	54.32	54.82	51.94	74.00	-22.06	peak
6	11044.130	14.18	39.44	53.51	52.63	52.74	74.00	-21.26	peak



Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

Mode : 2480 TX RSE

: BLE 1M

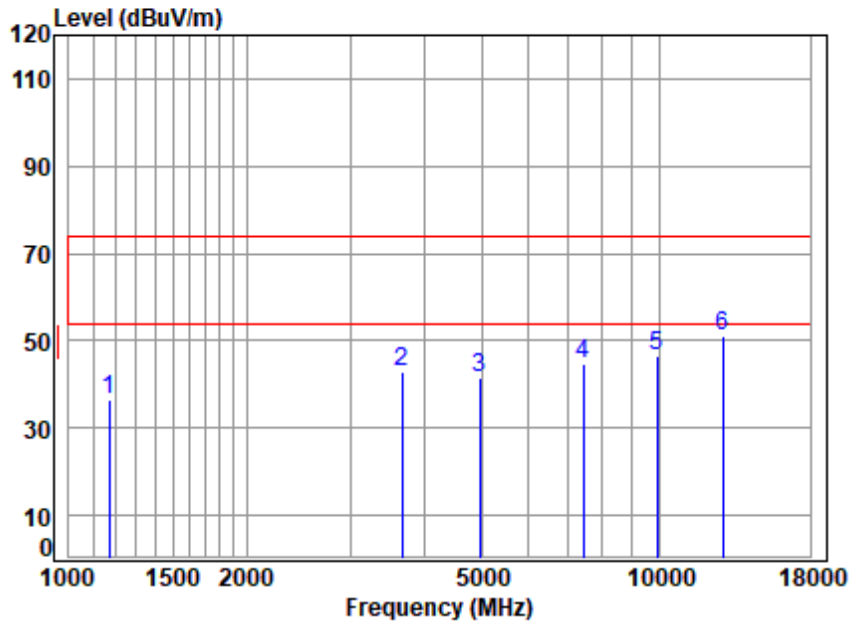
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	7.18	25.33	54.70	57.23	35.04	74.00	-38.96	peak
2	4341.886	8.49	31.30	55.84	58.28	42.23	74.00	-31.77	peak
3	4960.000	9.07	32.20	56.27	57.47	42.47	74.00	-31.53	peak
4	7440.000	11.08	36.78	56.35	56.63	48.14	74.00	-25.86	peak
5	9920.000	12.73	38.90	54.17	52.97	50.43	74.00	-23.57	peak
6	pp12984.540	15.26	40.32	54.49	51.79	52.88	74.00	-21.12	peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

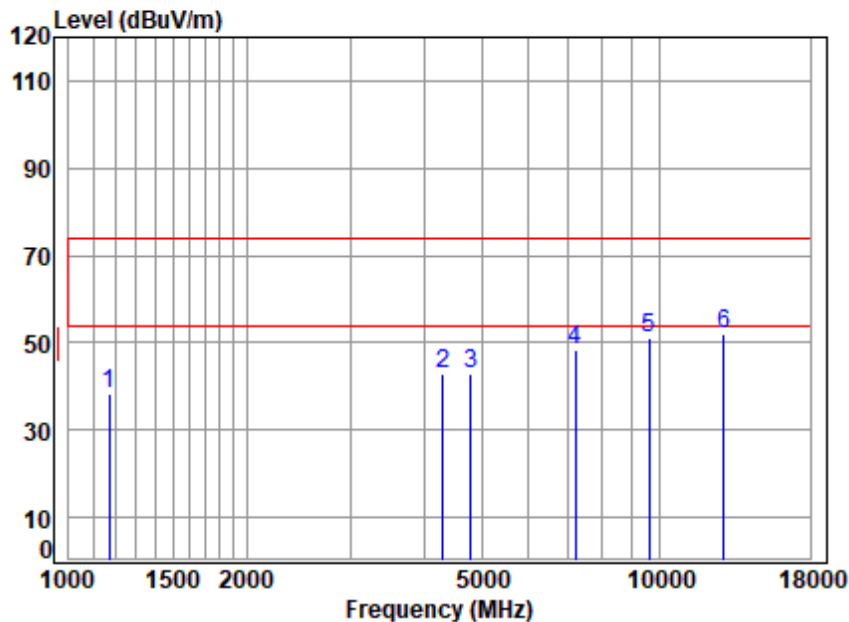
Mode : 2480 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1172.303	7.17	25.36	54.70	58.60	36.43	74.00	-37.57	peak
2	3661.149	7.84	29.80	55.40	60.76	43.00	74.00	-31.00	peak
3	4960.000	9.07	32.20	56.27	56.59	41.59	74.00	-32.41	peak
4	7440.000	11.08	36.78	56.35	53.19	44.70	74.00	-29.30	peak
5	9920.000	12.73	38.90	54.17	49.05	46.51	74.00	-27.49	peak
6	pp12798.240	15.15	40.30	54.36	50.05	51.14	74.00	-22.86	peak



Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

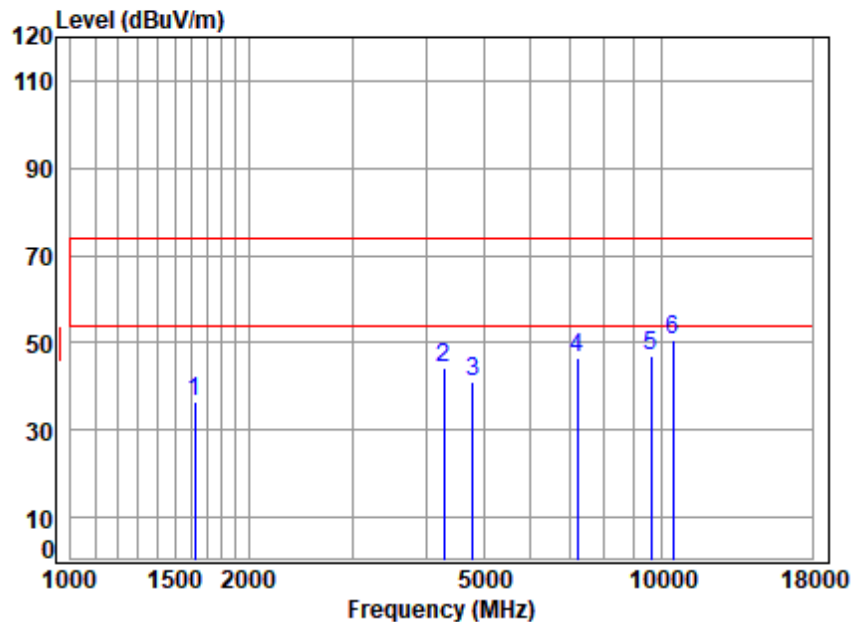
Mode : 2402 TX RSE

: BLE 2M

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1168.920	7.16	25.36	54.70	60.50	38.32	74.00 -35.68 peak
2	4304.400	8.45	31.30	55.81	59.05	42.99	74.00 -31.01 peak
3	4804.000	8.90	31.92	56.16	58.14	42.80	74.00 -31.20 peak
4	7206.000	11.10	36.60	56.54	57.28	48.44	74.00 -25.56 peak
5	9608.000	12.38	38.78	54.45	54.30	51.01	74.00 -22.99 peak
6	pp12872.440	15.22	40.37	54.41	50.86	52.04	74.00 -21.96 peak



Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

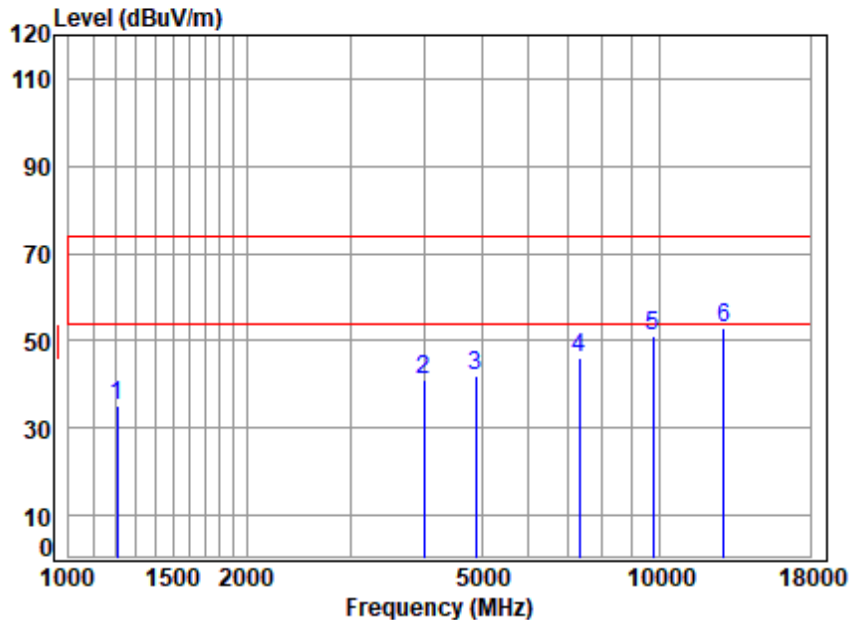
Mode : 2402 TX RSE

: BLE 2M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	7.13	25.05	54.70	59.12	36.60	74.00	-37.40	peak
2	4279.589	8.46	31.22	55.80	60.40	44.28	74.00	-29.72	peak
3	4804.000	8.90	31.92	56.16	56.41	41.07	74.00	-32.93	peak
4	7206.000	11.10	36.60	56.54	55.49	46.65	74.00	-27.35	peak
5	9608.000	12.38	38.78	54.45	50.40	47.11	74.00	-26.89	peak
6	10453.970	13.39	39.05	53.83	52.12	50.73	74.00	-23.27	peak



Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

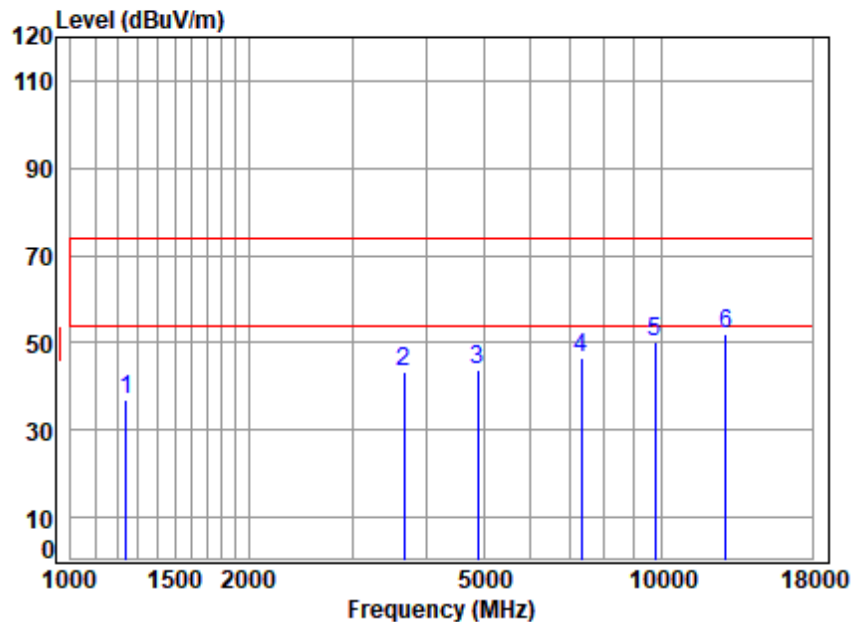
Mode : 2440 TX RSE

: BLE 2M

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7.19	25.30	54.70	57.50	35.29	74.00	-38.71	peak
2	8.12	30.19	55.60	58.53	41.24	74.00	-32.76	peak
3	8.98	32.16	56.22	57.22	42.14	74.00	-31.86	peak
4	11.12	36.74	56.44	54.55	45.97	74.00	-28.03	peak
5	12.84	38.60	54.32	54.18	51.30	74.00	-22.70	peak
6	15.18	40.34	54.38	51.71	52.85	74.00	-21.15	peak



Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

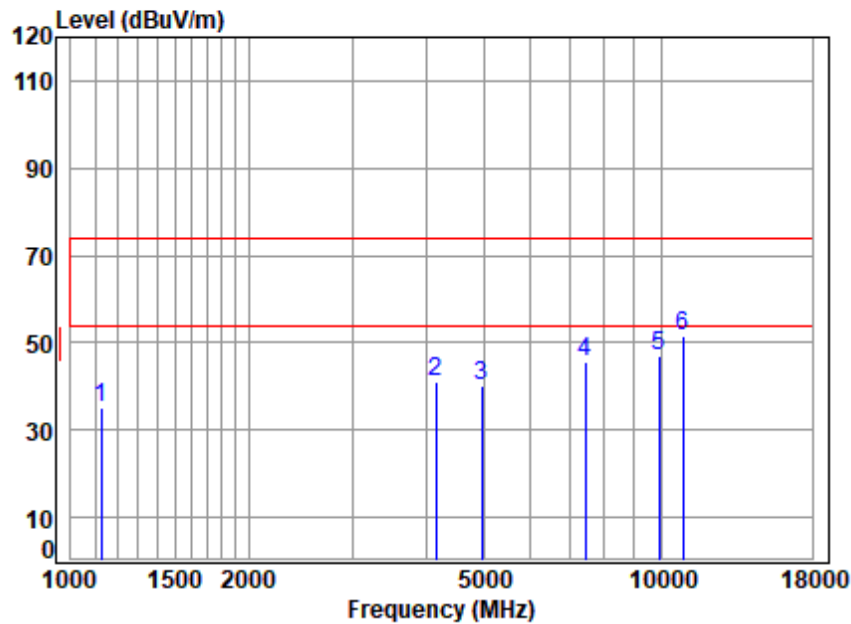
Mode : 2440 TX RSE

: BLE 2M

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1242.068	7.17	25.30	54.70	59.03	36.80	74.00 -37.20 peak
2	3671.746	7.85	29.80	55.40	60.97	43.22	74.00 -30.78 peak
3	4880.000	8.98	32.16	56.22	58.87	43.79	74.00 -30.21 peak
4	7320.000	11.12	36.74	56.44	55.05	46.47	74.00 -27.53 peak
5	9760.000	12.84	38.60	54.32	52.92	50.04	74.00 -23.96 peak
6	pp12872.440	15.22	40.37	54.41	50.73	51.91	74.00 -22.09 peak



Test Mode: 03; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

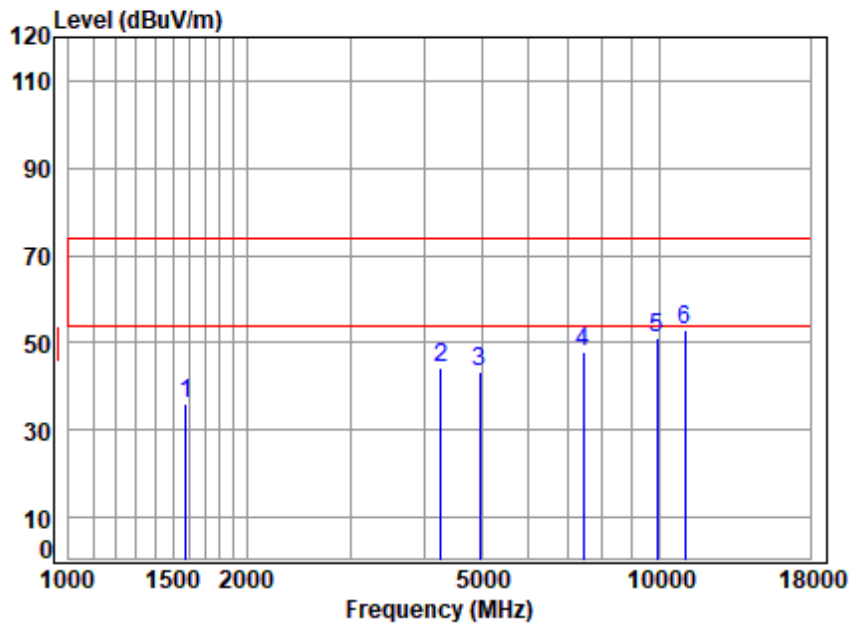
Mode : 2480 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	7.12	25.50	54.70	57.21	35.13	74.00	-38.87	peak
2	4145.664	8.43	30.49	55.70	57.99	41.21	74.00	-32.79	peak
3	4960.000	9.07	32.20	56.27	55.25	40.25	74.00	-33.75	peak
4	7440.000	11.08	36.78	56.35	54.08	45.59	74.00	-28.41	peak
5	9920.000	12.73	38.90	54.17	49.34	46.80	74.00	-27.20	peak
6	pp10885.670	13.59	39.30	53.57	52.24	51.56	74.00	-22.44	peak



Test Mode: 03; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

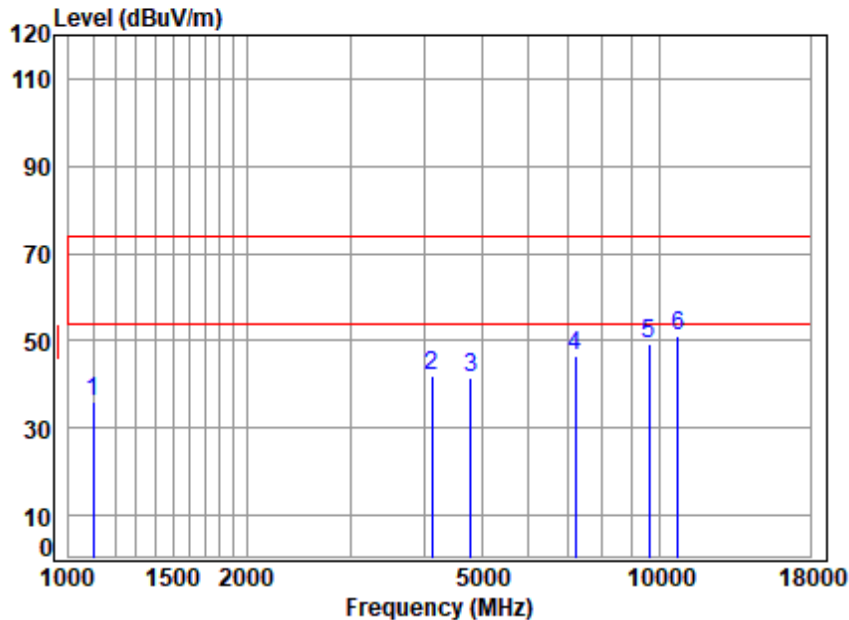
Mode : 2480 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	7.13	25.06	54.70	58.36	35.85	74.00	-38.15	peak
2	4267.237	8.47	31.17	55.79	60.18	44.03	74.00	-29.97	peak
3	4960.000	9.07	32.20	56.27	58.34	43.34	74.00	-30.66	peak
4	7440.000	11.08	36.78	56.35	56.49	48.00	74.00	-26.00	peak
5	9920.000	12.73	38.90	54.17	53.42	50.88	74.00	-23.12	peak
6	11044.130	14.18	39.44	53.51	52.73	52.84	74.00	-21.16	peak



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

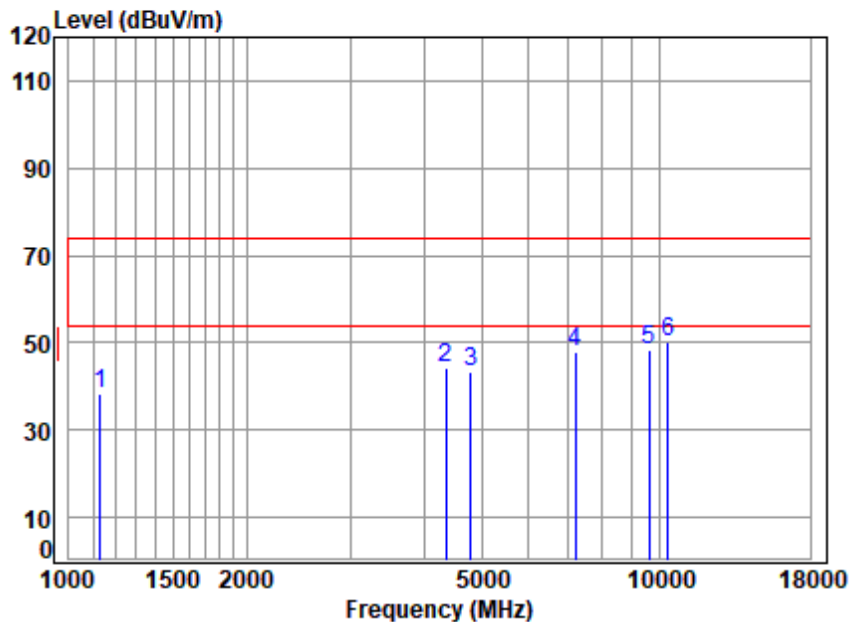
Mode : 2402 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1100.079	7.10	25.60	54.70	57.86	35.86	74.00	-38.14	peak
2	4121.768	8.39	30.44	55.69	59.04	42.18	74.00	-31.82	peak
3	4804.000	8.90	31.92	56.16	56.99	41.65	74.00	-32.35	peak
4	7206.000	11.10	36.60	56.54	55.43	46.59	74.00	-27.41	peak
5	9608.000	12.38	38.78	54.45	52.79	49.50	74.00	-24.50	peak
6	pp10760.540	13.51	39.34	53.64	52.04	51.25	74.00	-22.75	peak



Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

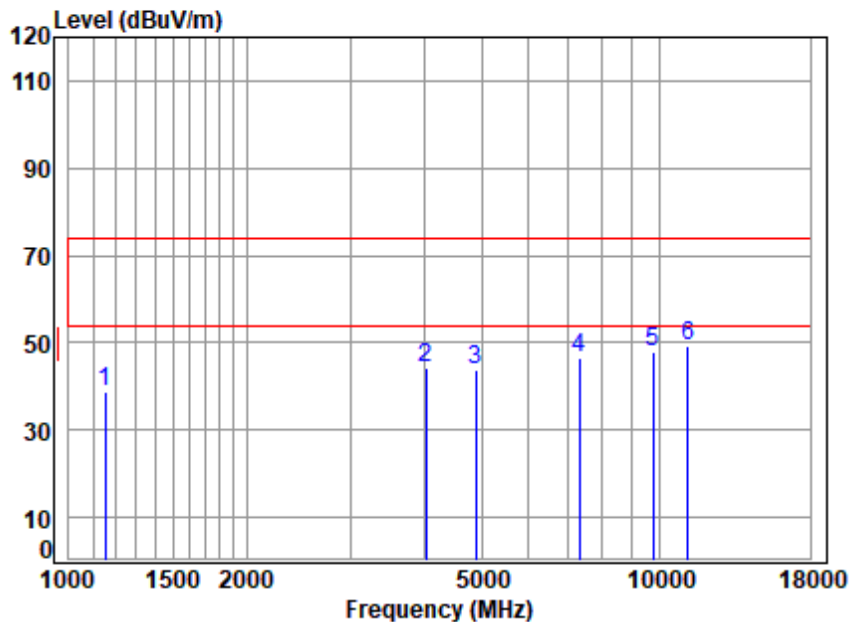
Mode : 2402 TX RSE

: BLE 1M

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	7.13	25.47	54.70	60.31	38.21	74.00	-35.79 peak
2	4354.454	8.50	31.29	55.85	60.45	44.39	74.00	-29.61 peak
3	4804.000	8.90	31.92	56.16	58.53	43.19	74.00	-30.81 peak
4	7206.000	11.10	36.60	56.54	56.55	47.71	74.00	-26.29 peak
5	9608.000	12.38	38.78	54.45	51.48	48.19	74.00	-25.81 peak
6	pp10333.800	13.51	39.00	53.90	51.50	50.11	74.00	-23.89 peak



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

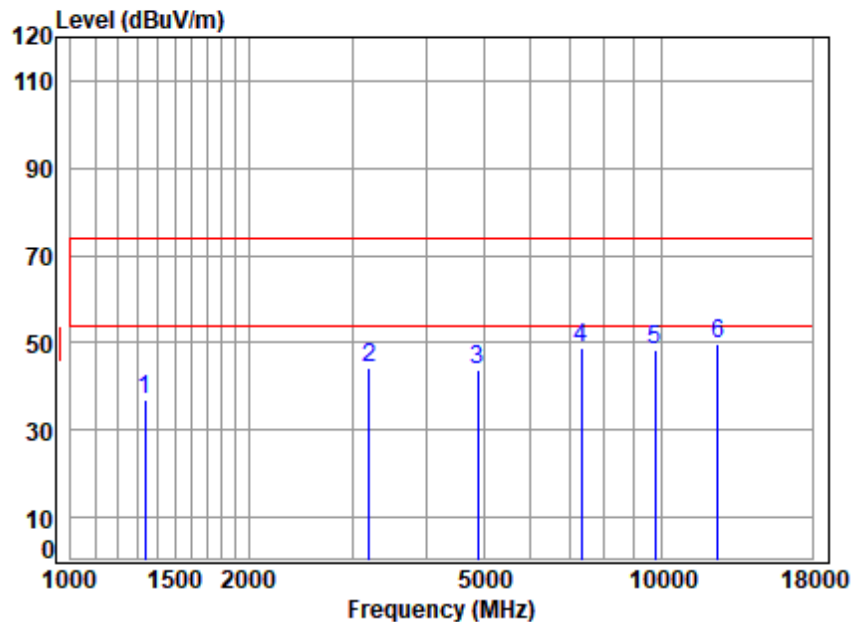
Mode : 2440 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	7.15	25.40	54.70	61.11	38.96	74.00	-35.04	peak
2	4027.554	8.19	30.26	55.62	61.39	44.22	74.00	-29.78	peak
3	4880.000	8.98	32.16	56.22	58.97	43.89	74.00	-30.11	peak
4	7320.000	11.12	36.74	56.44	54.92	46.34	74.00	-27.66	peak
5	9760.000	12.84	38.60	54.32	50.87	47.99	74.00	-26.01	peak
6	pp11172.560	14.21	39.57	53.55	49.06	49.29	74.00	-24.71	peak



Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

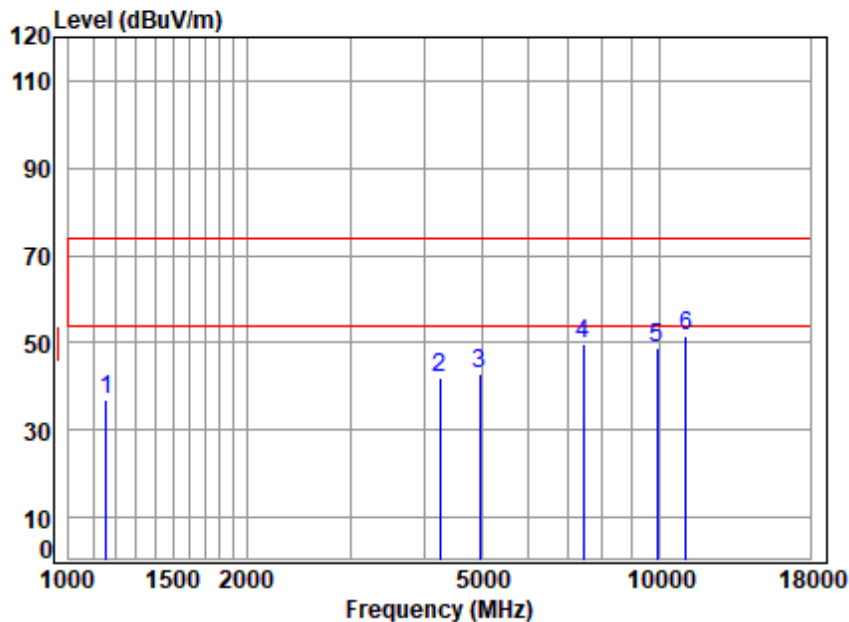
Mode : 2440 TX RSE

: BLE 1M

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	7.17	25.13	54.70	59.44	37.04	74.00	-36.96 peak
2	3196.094	7.70	29.20	55.12	62.58	44.36	74.00	-29.64 peak
3	4880.000	8.98	32.16	56.22	58.71	43.63	74.00	-30.37 peak
4	7320.000	11.12	36.74	56.44	57.50	48.92	74.00	-25.08 peak
5	9760.000	12.84	38.60	54.32	51.06	48.18	74.00	-25.82 peak
6	pp12469.610	14.84	39.90	54.13	49.26	49.87	74.00	-24.13 peak



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

Mode : 2480 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	7.15	25.38	54.70	59.05	36.88	74.00	-37.12	peak
2	4254.921	8.48	31.12	55.78	58.30	42.12	74.00	-31.88	peak
3	4960.000	9.07	32.20	56.27	57.88	42.88	74.00	-31.12	peak
4	7440.000	11.08	36.78	56.35	58.09	49.60	74.00	-24.40	peak
5	9920.000	12.73	38.90	54.17	51.53	48.99	74.00	-25.01	peak
6	pp11076.100	14.14	39.48	53.52	51.36	51.46	74.00	-22.54	peak



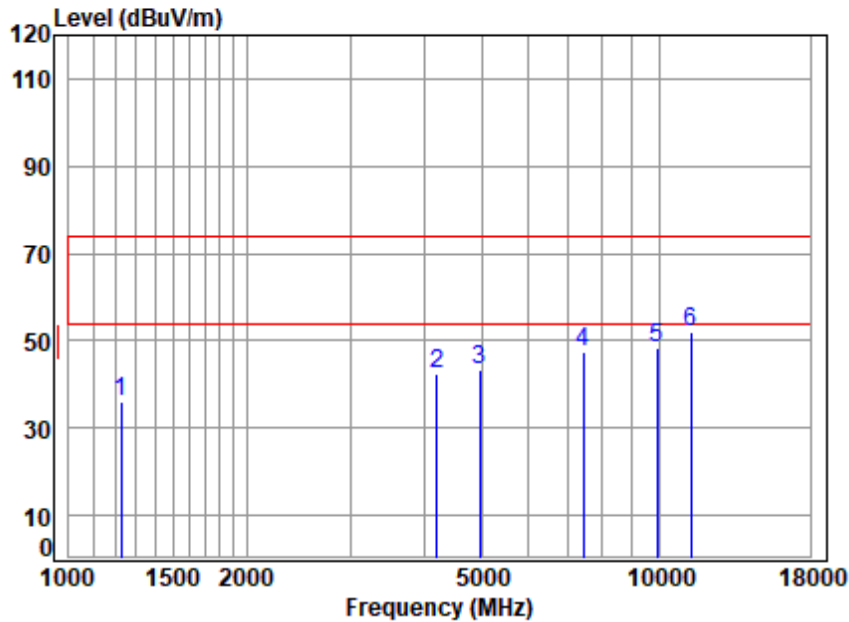
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

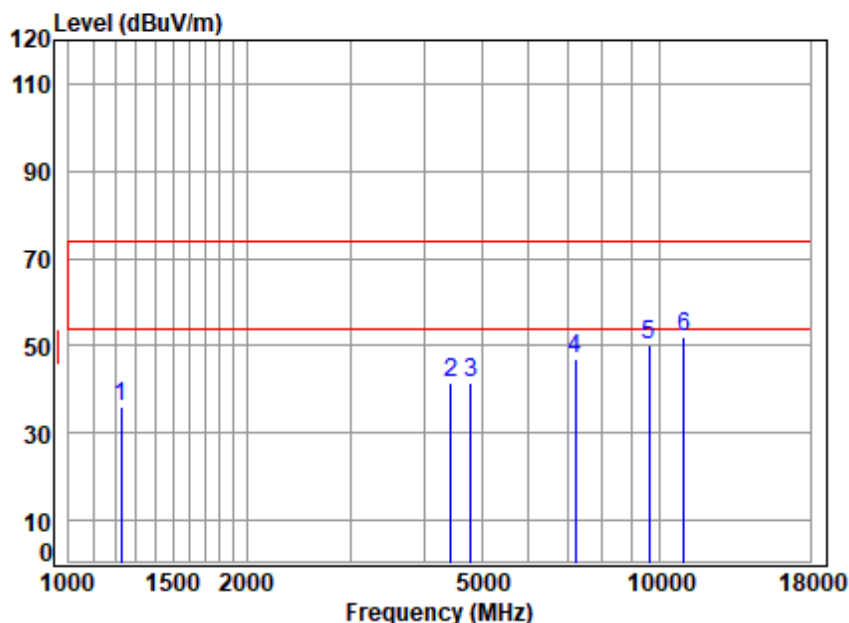
Mode : 2480 TX RSE

: BLE 1M

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	7.18	25.30	54.70	58.17	35.95	74.00	-38.05 peak
2	4206.011	8.51	30.84	55.74	58.88	42.49	74.00	-31.51 peak
3	4960.000	9.07	32.20	56.27	58.13	43.13	74.00	-30.87 peak
4	7440.000	11.08	36.78	56.35	56.09	47.60	74.00	-26.40 peak
5	9920.000	12.73	38.90	54.17	50.88	48.34	74.00	-25.66 peak
6	pp11302.480	14.39	39.70	53.59	51.38	51.88	74.00	-22.12 peak



Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

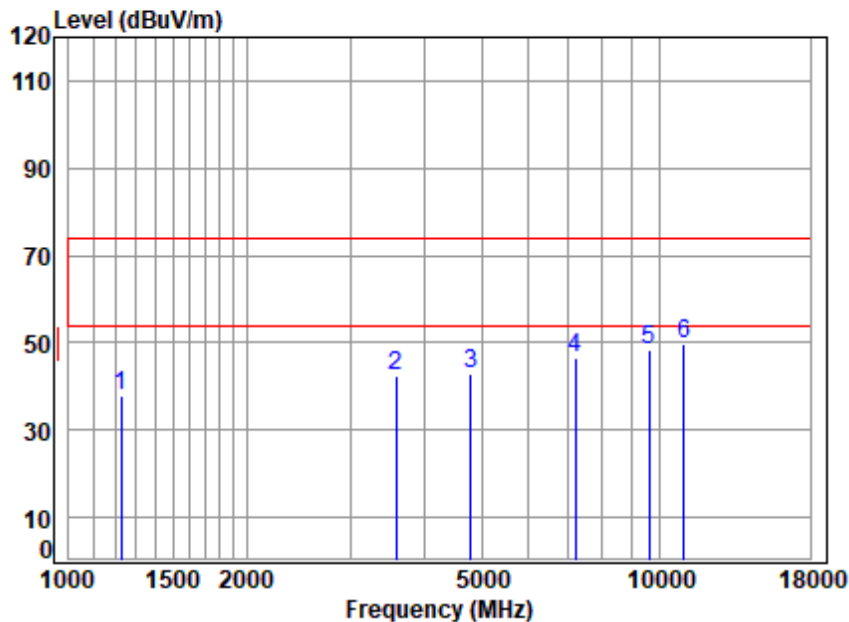
Mode : 2402 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	7.18	25.30	54.70	58.17	35.95	74.00	-38.05	peak
2	4430.628	8.55	31.32	55.90	57.57	41.54	74.00	-32.46	peak
3	4804.000	8.90	31.92	56.16	57.06	41.72	74.00	-32.28	peak
4	7206.000	11.10	36.60	56.54	55.79	46.95	74.00	-27.05	peak
5	9608.000	12.38	38.78	54.45	53.55	50.26	74.00	-23.74	peak
6	11012.250	14.21	39.41	53.50	51.71	51.83	74.00	-22.17	peak



Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

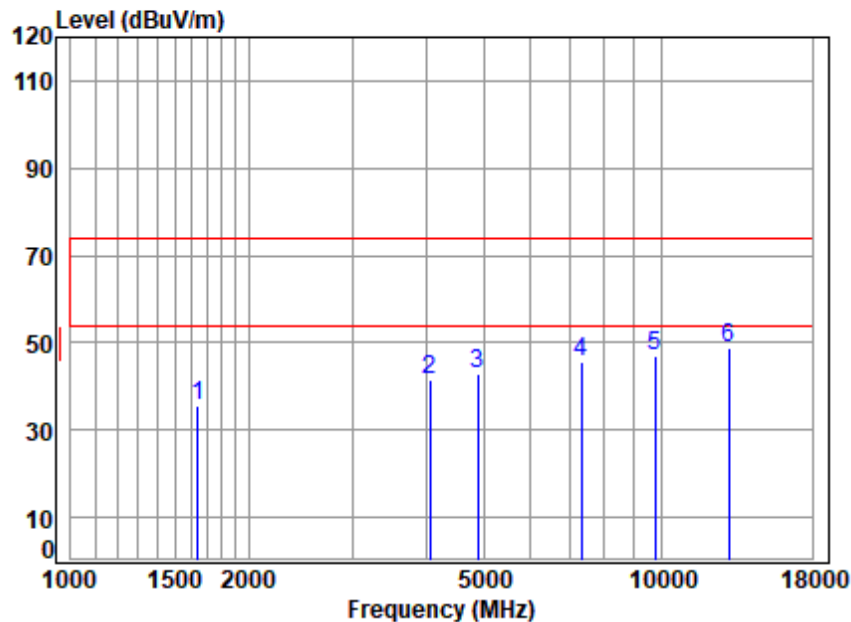
Mode : 2402 TX RSE

: BLE 2M

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1227.791	7.18	25.30	54.70	60.17	37.95	74.00 -36.05 peak
2	3577.463	7.75	29.85	55.35	60.28	42.53	74.00 -31.47 peak
3	4804.000	8.90	31.92	56.16	58.06	42.72	74.00 -31.28 peak
4	7206.000	11.10	36.60	56.54	55.61	46.77	74.00 -27.23 peak
5	9608.000	12.38	38.78	54.45	51.55	48.26	74.00 -25.74 peak
6	pp11012.250	14.21	39.41	53.50	49.71	49.83	74.00 -24.17 peak



Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

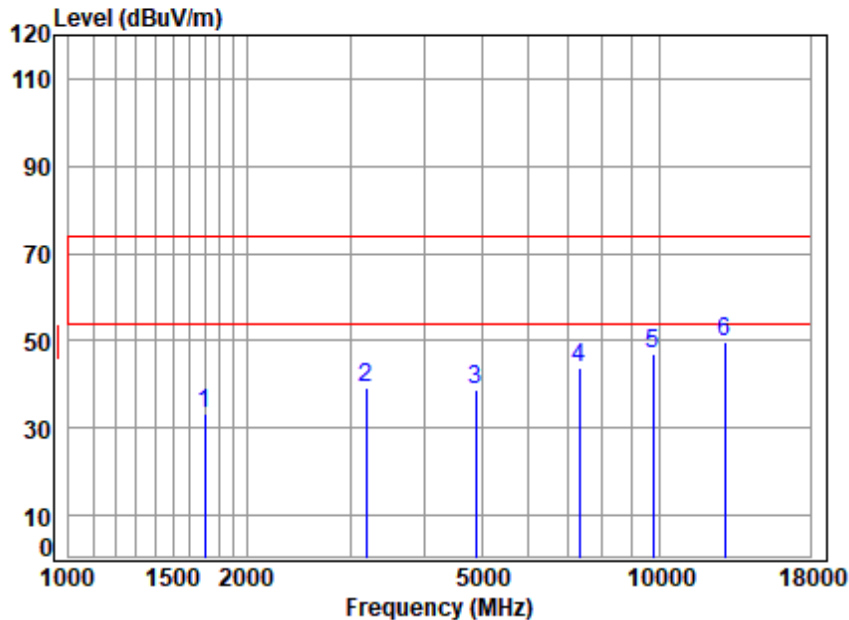
Mode : 2440 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	7.14	25.02	54.70	58.07	35.53	74.00	-38.47	peak
2	4062.629	8.27	30.33	55.64	58.69	41.65	74.00	-32.35	peak
3	4880.000	8.98	32.16	56.22	57.87	42.79	74.00	-31.21	peak
4	7320.000	11.12	36.74	56.44	54.01	45.43	74.00	-28.57	peak
5	9760.000	12.84	38.60	54.32	49.81	46.93	74.00	-27.07	peak
6	pp12984.540	15.26	40.32	54.49	47.70	48.79	74.00	-25.21	peak



Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

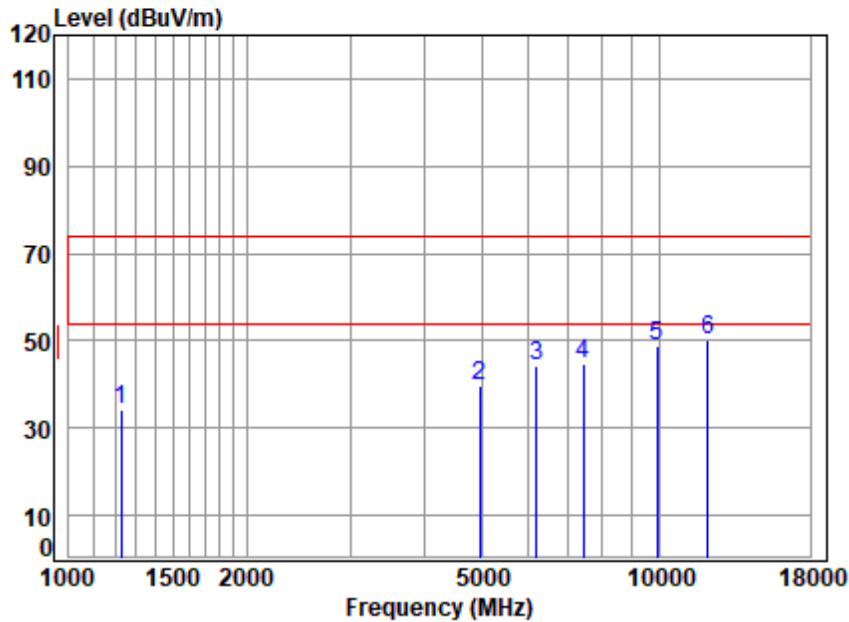
Mode : 2440 TX RSE

: BLE 2M

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7.20	25.11	54.70	55.54	33.15	74.00	-40.85	peak
2	7.70	29.20	55.11	57.29	39.08	74.00	-34.92	peak
3	8.98	32.16	56.22	54.08	39.00	74.00	-35.00	peak
4	11.12	36.74	56.44	52.24	43.66	74.00	-30.34	peak
5	12.84	38.60	54.32	49.71	46.83	74.00	-27.17	peak
6	15.24	40.39	54.44	48.46	49.65	74.00	-24.35	peak



Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

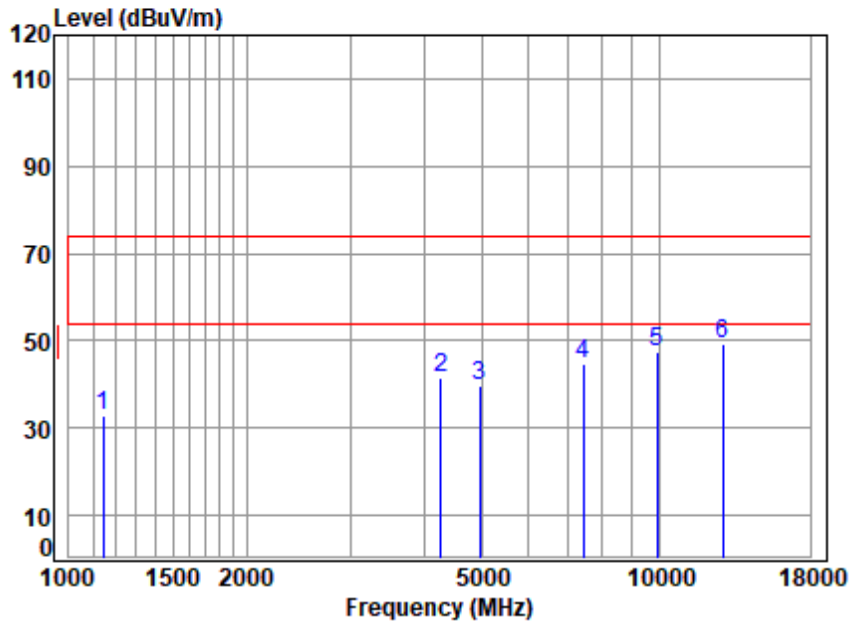
Mode : 2480 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	7.18	25.30	54.70	56.57	34.35	74.00	-39.65	peak
2	4960.000	9.07	32.20	56.27	54.86	39.86	74.00	-34.14	peak
3	6195.508	10.46	34.11	56.86	56.56	44.27	74.00	-29.73	Peak
4	7440.000	11.08	36.78	56.35	53.42	44.93	74.00	-29.07	peak
5	9920.000	12.73	38.90	54.17	51.19	48.65	74.00	-25.35	peak
6	pp12079.390	14.36	39.72	53.86	49.78	50.00	74.00	-24.00	peak



Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

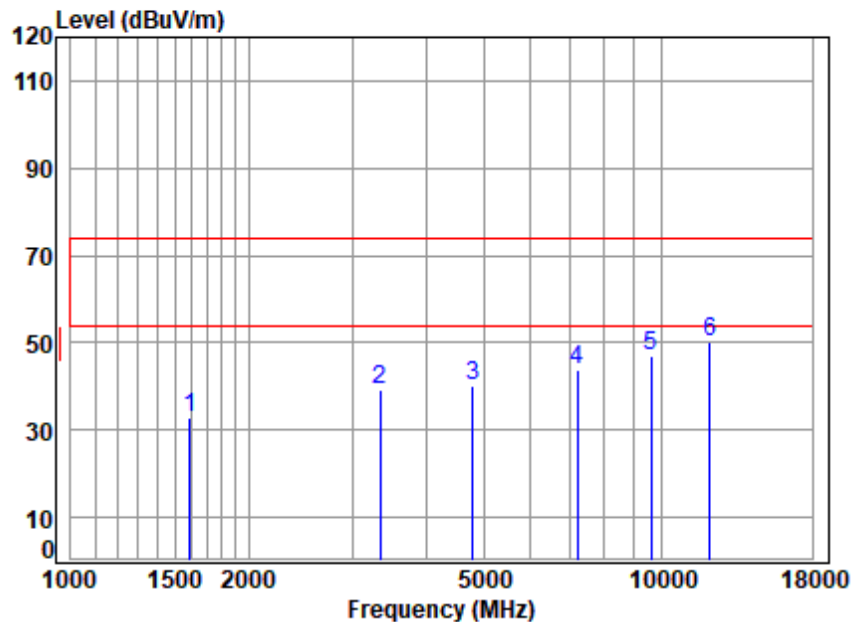
Mode : 2480 TX RSE

: BLE 2M

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1145.507	7.14	25.42	54.70	54.77	32.63	74.00 -41.37 peak
2	4267.237	8.47	31.17	55.79	57.58	41.43	74.00 -32.57 peak
3	4960.000	9.07	32.20	56.27	54.79	39.79	74.00 -34.21 peak
4	7440.000	11.08	36.78	56.35	53.22	44.73	74.00 -29.27 peak
5	9920.000	12.73	38.90	54.17	49.89	47.35	74.00 -26.65 peak
6	pp12798.240	15.15	40.30	54.36	48.29	49.38	74.00 -24.62 peak



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

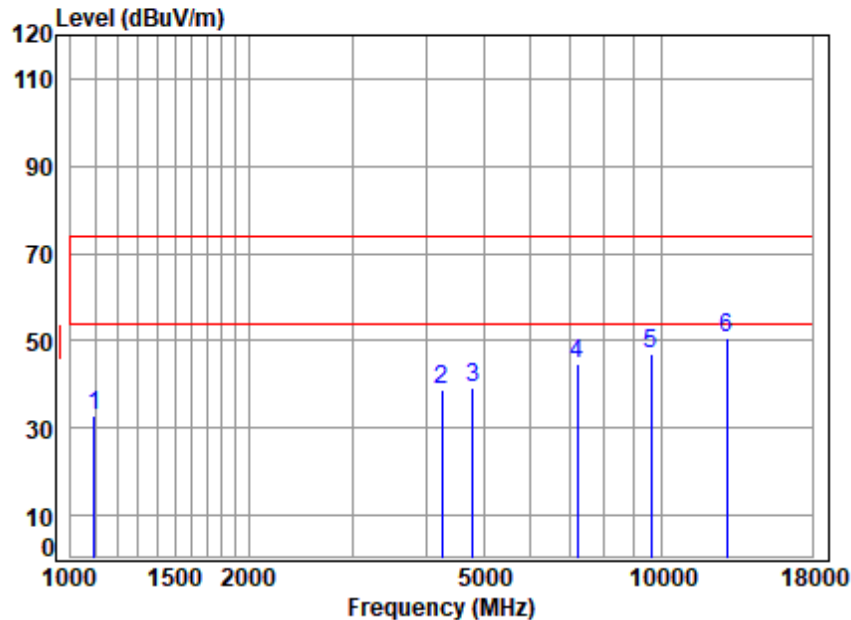
Mode : 2402 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	7.11	25.09	54.70	55.56	33.06	74.00	-40.94	peak
2	3347.371	7.61	29.20	55.21	57.43	39.03	74.00	-34.97	Peak
3	4804.000	8.90	31.92	56.16	55.29	39.95	74.00	-34.05	peak
4	7206.000	11.10	36.60	56.54	52.61	43.77	74.00	-30.23	peak
5	9608.000	12.38	38.78	54.45	50.15	46.86	74.00	-27.14	peak
6	pp12079.390	14.36	39.72	53.86	49.78	50.00	74.00	-24.00	peak



Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

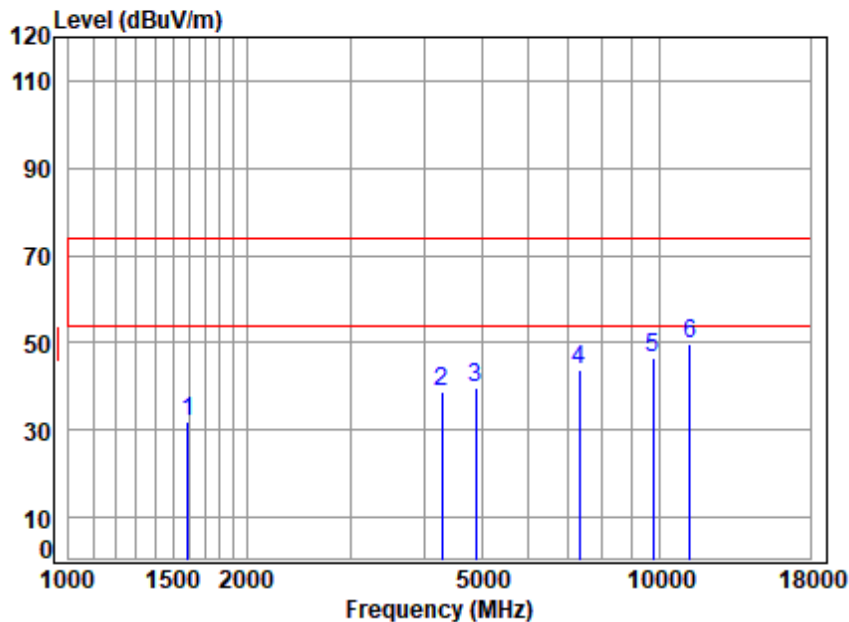
Mode : 2402 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1096.904	7.10	25.59	54.70	55.04	33.03	74.00	-40.97	peak
2	4242.641	8.48	31.06	55.77	55.00	38.77	74.00	-35.23	peak
3	4804.000	8.90	31.92	56.16	54.46	39.12	74.00	-34.88	peak
4	7206.000	11.10	36.60	56.54	53.37	44.53	74.00	-29.47	peak
5	9608.000	12.38	38.78	54.45	50.17	46.88	74.00	-27.12	peak
6	pp12909.700	15.24	40.39	54.44	49.59	50.78	74.00	-23.22	peak



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

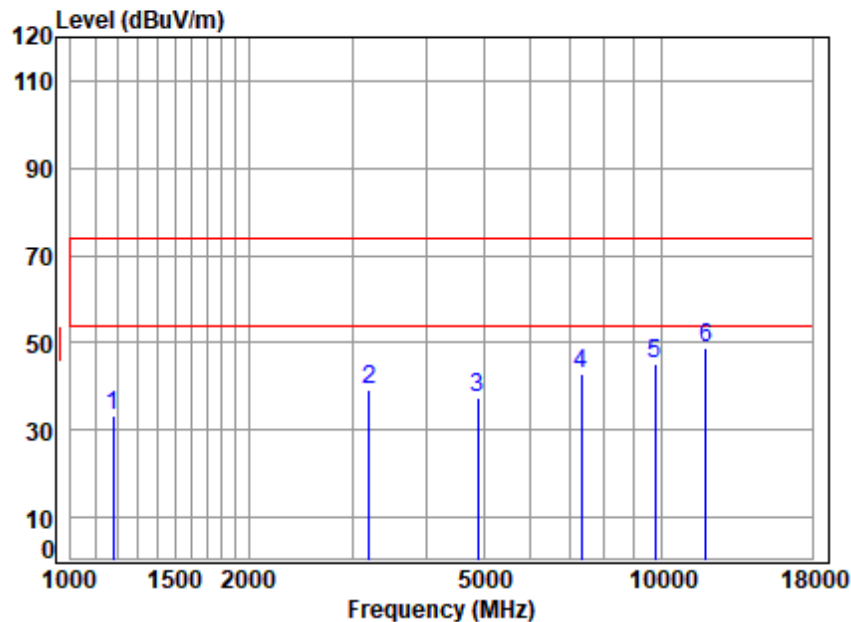
Mode : 2440 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	7.11	25.09	54.70	54.38	31.88	74.00	-42.12	peak
2	4279.589	8.46	31.22	55.80	55.11	38.99	74.00	-35.01	peak
3	4880.000	8.98	32.16	56.22	54.57	39.49	74.00	-34.51	peak
4	7320.000	11.12	36.74	56.44	52.20	43.62	74.00	-30.38	peak
5	9760.000	12.84	38.60	54.32	49.45	46.57	74.00	-27.43	peak
6	pp11269.860	14.35	39.67	53.58	49.14	49.58	74.00	-24.42	peak



Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

Mode : 2440 TX RSE

: BLE 1M

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1179.100	7.17	25.34	54.70	55.72	33.53	74.00 -40.47 peak
2	3196.094	7.70	29.20	55.12	57.46	39.24	74.00 -34.76 peak
3	4880.000	8.98	32.16	56.22	52.60	37.52	74.00 -36.48 peak
4	7320.000	11.12	36.74	56.44	51.28	42.70	74.00 -31.30 peak
5	9760.000	12.84	38.60	54.32	48.25	45.37	74.00 -28.63 peak
6	pp11906.070	14.62	39.71	53.77	48.25	48.81	74.00 -25.19 peak



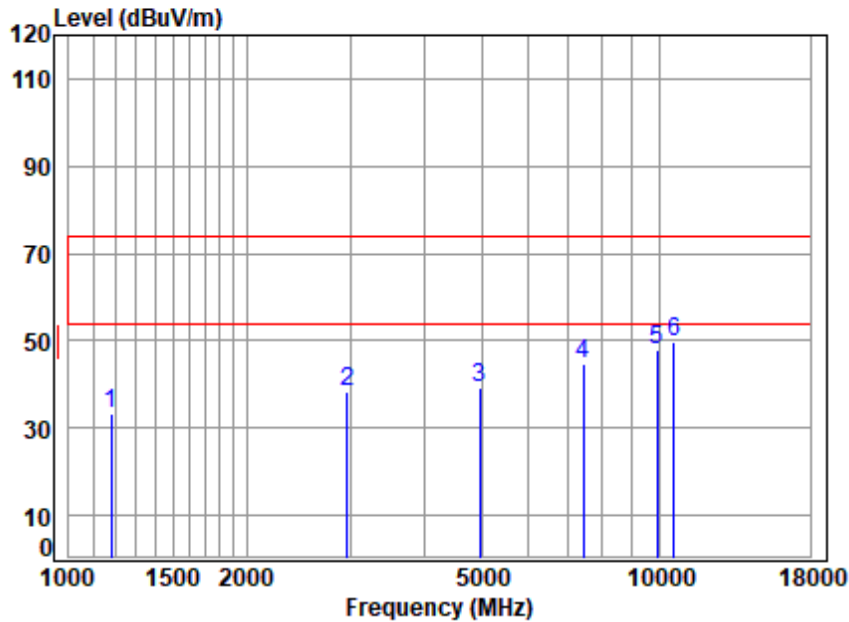
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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

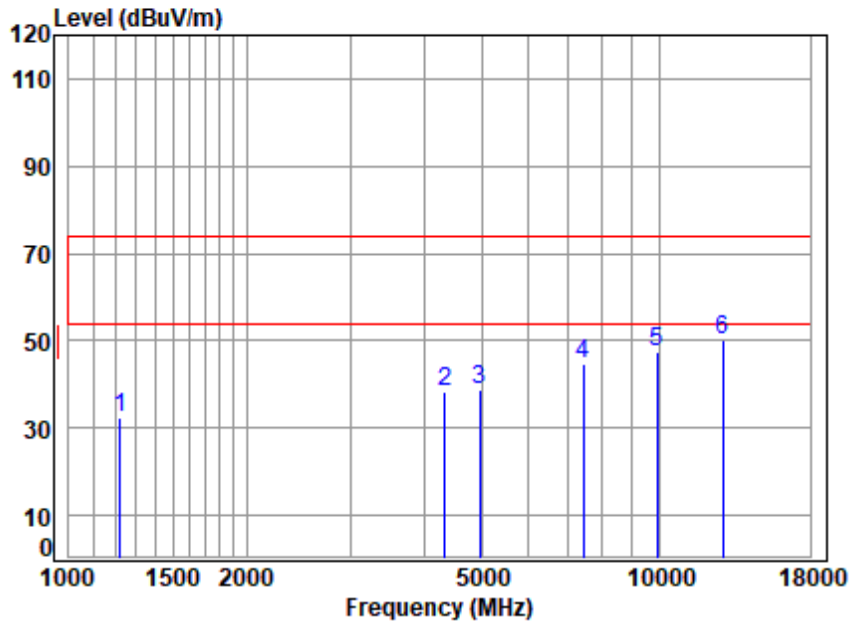
Mode : 2480 TX RSE

: BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1179.100	7.17	25.34	54.70	55.72	33.53	74.00	-40.47	peak
2	2964.712	7.88	28.93	54.99	56.34	38.16	74.00	-35.84	Peak
3	4960.000	9.07	32.20	56.27	54.46	39.46	74.00	-34.54	peak
4	7440.000	11.08	36.78	56.35	53.07	44.58	74.00	-29.42	peak
5	9920.000	12.73	38.90	54.17	50.50	47.96	74.00	-26.04	peak
6	pp10606.150	13.38	39.31	53.74	50.95	49.90	74.00	-24.10	peak



Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

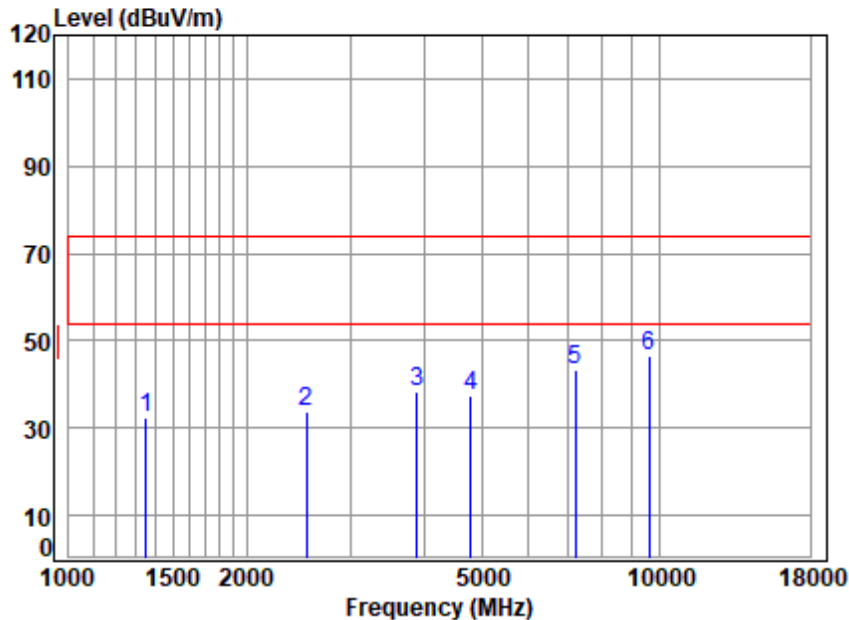
Mode : 2480 TX RSE

: BLE 1M

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1220.714	7.18	25.30	54.70	54.66	32.44	74.00 -41.56 peak
2	4341.886	8.49	31.30	55.84	54.39	38.34	74.00 -35.66 peak
3	4960.000	9.07	32.20	56.27	53.95	38.95	74.00 -35.05 peak
4	7440.000	11.08	36.78	56.35	52.98	44.49	74.00 -29.51 peak
5	9920.000	12.73	38.90	54.17	50.02	47.48	74.00 -26.52 peak
6	pp12798.240	15.15	40.30	54.36	48.90	49.99	74.00 -24.01 peak



Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

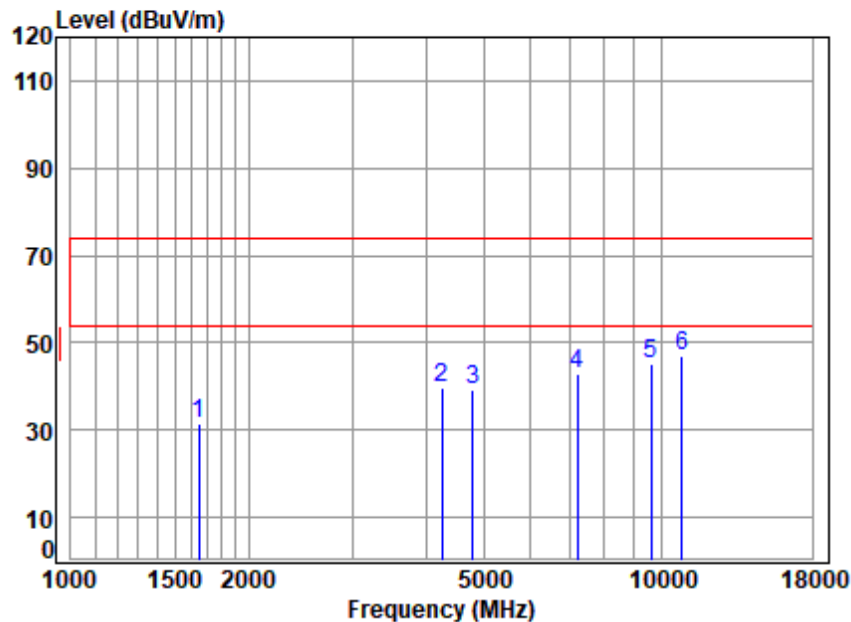
Mode : 2402 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1350.667	7.18	25.10	54.70	54.80	32.38	74.00	-41.62	peak
2	2528.963	7.33	27.84	54.86	53.45	33.76	74.00	-40.24	Peak
3	3890.255	8.06	29.88	55.53	55.75	38.16	74.00	-35.84	peak
4	4804.000	8.90	31.92	56.16	52.98	37.64	74.00	-36.36	peak
5	7206.000	11.10	36.60	56.54	52.31	43.47	74.00	-30.53	peak
6 pp	9608.000	12.38	38.78	54.45	50.04	46.75	74.00	-27.25	peak



Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

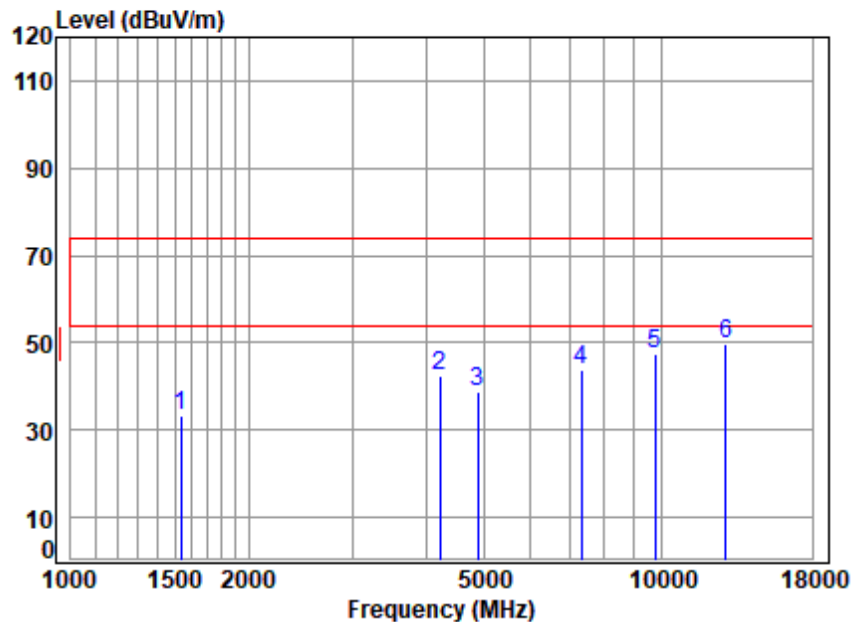
Mode : 2402 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	7.15	25.00	54.70	54.25	31.70	74.00	-42.30	peak
2	4242.641	8.48	31.06	55.77	55.79	39.56	74.00	-34.44	peak
3	4804.000	8.90	31.92	56.16	54.39	39.05	74.00	-34.95	peak
4	7206.000	11.10	36.60	56.54	51.64	42.80	74.00	-31.20	peak
5	9608.000	12.38	38.78	54.45	48.49	45.20	74.00	-28.80	peak
6	pp10822.920	13.51	39.30	53.61	47.74	46.94	74.00	-27.06	Peak



Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

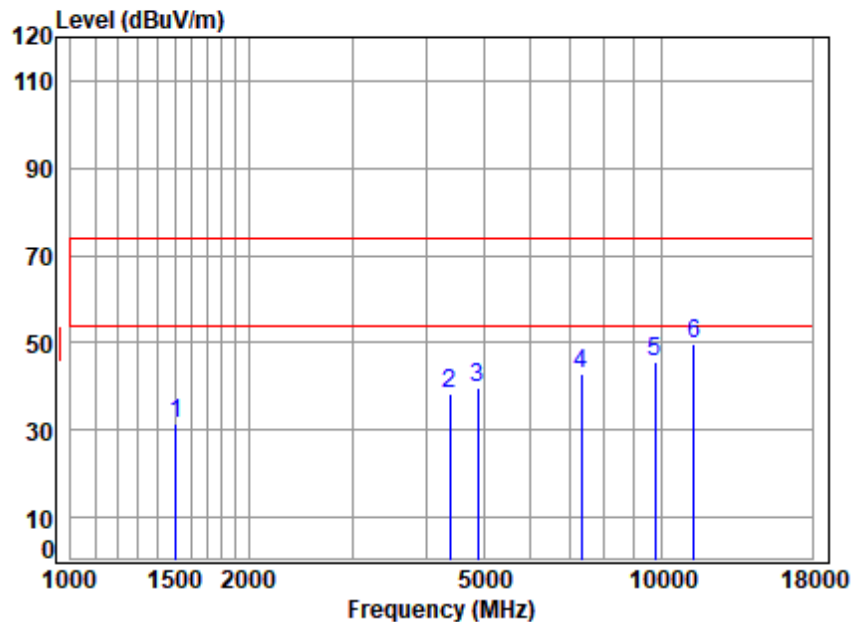
Mode : 2440 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1533.841	7.18	24.97	54.70	55.75	33.20	74.00	-40.80	peak
2	4218.186	8.50	30.91	55.75	58.64	42.30	74.00	-31.70	peak
3	4880.000	8.98	32.16	56.22	53.74	38.66	74.00	-35.34	peak
4	7320.000	11.12	36.74	56.44	52.47	43.89	74.00	-30.11	peak
5	9760.000	12.84	38.60	54.32	50.43	47.55	74.00	-26.45	peak
6	pp12872.440	15.22	40.37	54.41	48.70	49.88	74.00	-24.12	peak



Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

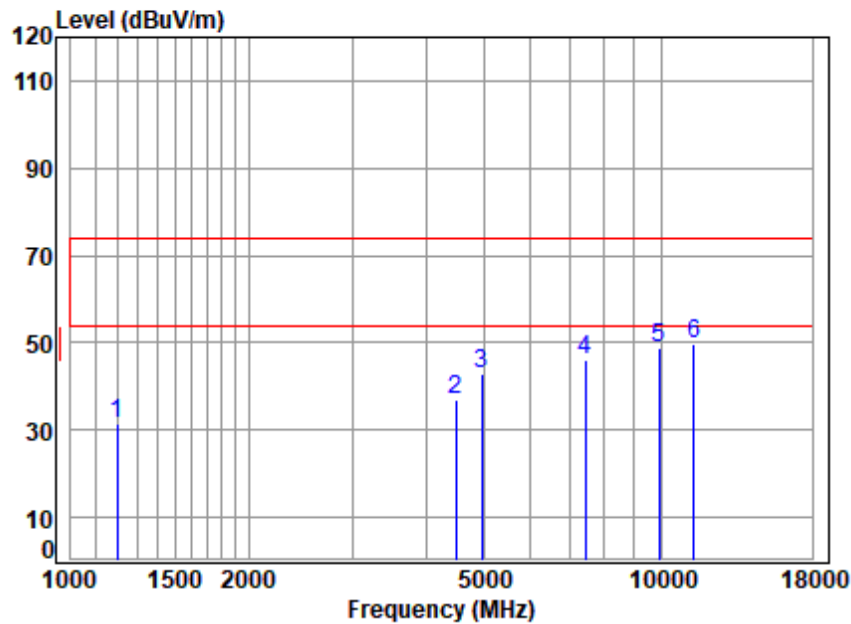
Mode : 2440 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	7.21	24.91	54.70	53.98	31.40	74.00	-42.60	peak
2	4379.699	8.52	31.24	55.87	54.39	38.28	74.00	-35.72	peak
3	4880.000	8.98	32.16	56.22	54.78	39.70	74.00	-34.30	peak
4	7320.000	11.12	36.74	56.44	51.59	43.01	74.00	-30.99	peak
5	9760.000	12.84	38.60	54.32	48.51	45.63	74.00	-28.37	peak
6	pp11335.190	14.29	39.70	53.60	49.16	49.55	74.00	-24.45	peak



Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 04486AT/04487AT

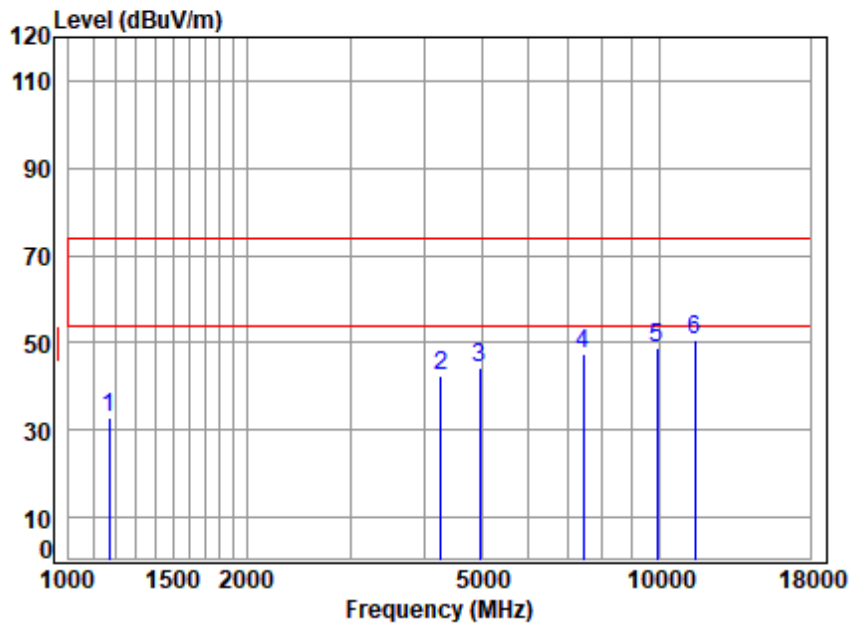
Mode : 2480 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	7.19	25.30	54.70	53.77	31.56	74.00	-42.44	peak
2	4495.125	8.56	31.58	55.95	52.73	36.92	74.00	-37.08	peak
3	4960.000	9.07	32.20	56.27	57.79	42.79	74.00	-31.21	peak
4	7440.000	11.08	36.78	56.35	54.78	46.29	74.00	-27.71	peak
5	9920.000	12.73	38.90	54.17	51.26	48.72	74.00	-25.28	peak
6	pp11368.000	14.20	39.70	53.61	49.43	49.72	74.00	-24.28	peak



Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 04486AT/04487AT

Mode : 2480 TX RSE

: BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	7.16	25.36	54.70	55.06	32.88	74.00	-41.12	peak
2	4267.237	8.47	31.17	55.79	58.81	42.66	74.00	-31.34	peak
3	4960.000	9.07	32.20	56.27	59.31	44.31	74.00	-29.69	peak
4	7440.000	11.08	36.78	56.35	56.10	47.61	74.00	-26.39	peak
5	9920.000	12.73	38.90	54.17	51.37	48.83	74.00	-25.17	peak
6	pp11467.000	14.19	39.63	53.64	50.49	50.67	74.00	-23.33	peak



8 Test Setup Photo

Refer to Setup Photo for SZCR2411004486AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2411004486AT

- End of the Report -

