



FCC Co-Location RF Test Report

APPLICANT : Procon Analytics LLC
EQUIPMENT : Arrow-QI
BRAND NAME : Procon Analytics
MODEL NAME : 4-6360-20, 4-6360-17, 4-6361-20, 4-6361-17
FCC ID : 2BAH7AQI01
STANDARD : 47 CFR Part 27(H)
FCC Part 15 Subpart C §15.247
TEST DATE(S) : Aug. 20, 2025 ~ Aug. 28, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG570110A	Rev. 01	Initial issue of report	Sep. 16, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§27.53(g)	Radiated Spurious Emission (Band 85)	$< 43 + 10 \log_{10}(P[\text{Watts}])$	PASS	Under limit 1.86 dB at 4804.00 MHz
	15.247(d)	Radiated Band Edges and Radiated Spurious Emission (BLE)	15.209(a) & 15.247(d)		

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Procon Analytics LLC
17361 Armstrong Avenue Irvine, CA 92614

1.2 Manufacturer

Procon Analytics LLC
17361 Armstrong Avenue Irvine, CA 92614

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Arrow-QI
Brand Name	Procon Analytics
Model Name	4-6360-20, 4-6360-17, 4-6361-20, 4-6361-17
FCC ID	2BAH7AQI01
SN	AKHFEM-8078241081
HW Version	V1.2
SW Version	BG95M1LAR05A01_01

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 85: 698 MHz ~ 716 MHz BLE: 2402 MHz ~ 2480 MHz
Rx Frequency	LTE Band 85: 728 MHz ~ 746 MHz BLE: 2402 MHz ~ 2480 MHz
Type of Modulation	LTE: QPSK / 16QAM Bluetooth LE : GFSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-KS	AUDIX	E3	210616

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2020
- 47 CFR Part 27(H)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

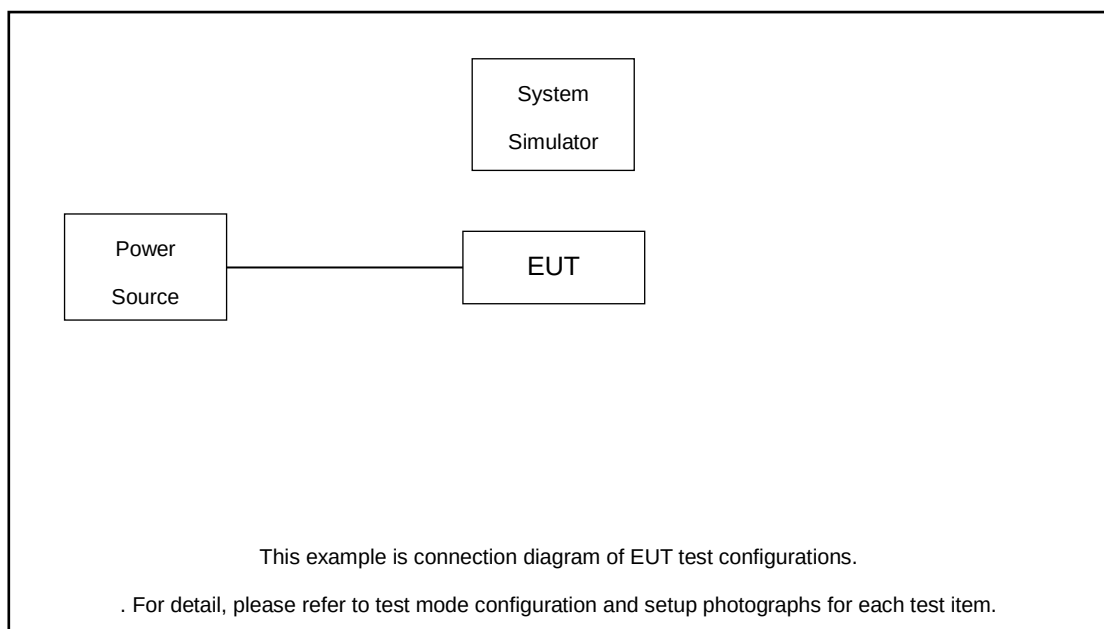
2 Test Configuration of Equipment Under Test

2.1 Test Mode

For simultaneous transmission test mode, the combination testing was assessed from the worst RSE link mode of WWAN (LTE) and the worst RSE link mode of BLE.

Simultaneous transmission
Bluetooth-LE_TX+ LTE B85 Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

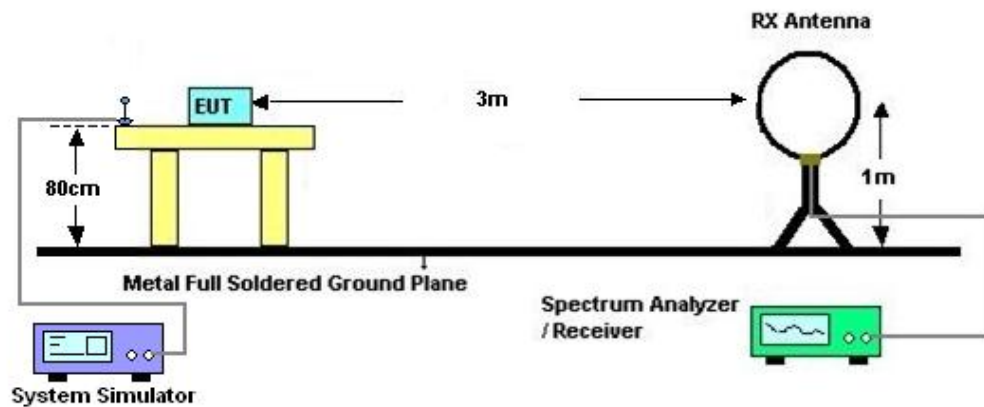
3 Radiated Test Items

3.1 Measuring Instruments

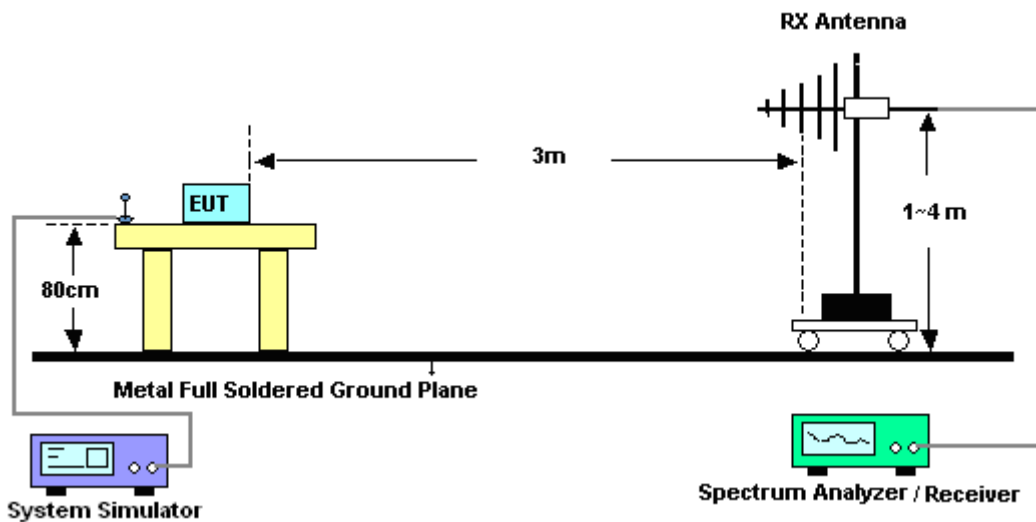
See list of measuring instruments of this test report.

3.2 Test Setup

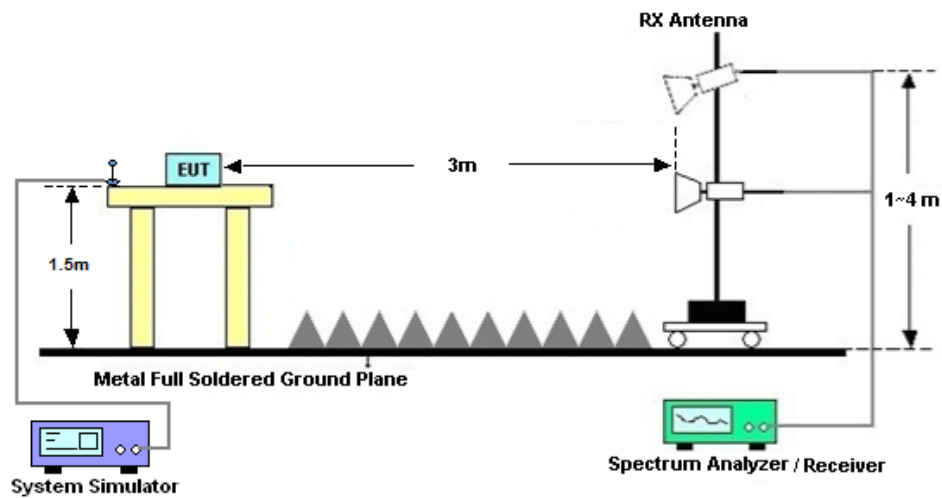
3.2.1 For radiated test below 30MHz



3.2.2 For radiated test from 30MHz to 1GHz



3.2.3 For radiated test above 1GHz



3.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix A.

3.4 Radiated Spurious Emission

3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26.

For LTE Band 85

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Part 15.247

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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
Above 960	500	3

3.4.2 Test Procedures

For LTE Band 85

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP\ (dBm) = S.G.\ Power - Tx\ Cable\ Loss + Tx\ Antenna\ Gain$
11. $ERP\ (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)dB$ below the transmitter power $P(Watts)$

$$= P(W) - [43 + 10\log(P)]\ (dB)$$

$$= [30 + 10\log(P)]\ (dBm) - [43 + 10\log(P)]\ (dB)$$

$$= -13dBm.$$

For Part 15.247

1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Ma x 30dBm	Oct. 11, 2024	Aug. 20, 2025-Aug. 28, 2025	Oct. 10, 2025	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2025	Aug. 20, 2025-Aug. 28, 2025	Apr. 17, 2026	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Aug. 20, 2025-Aug. 28, 2025	Sep. 07, 2025	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Nov. 23, 2024	Aug. 20, 2025-Aug. 28, 2025	Nov. 22, 2025	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 15, 2025	Aug. 20, 2025-Aug. 28, 2025	Aug. 14, 2026	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Aug. 20, 2025-Aug. 28, 2025	Oct. 21, 2025	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 02, 2025	Aug. 20, 2025-Aug. 28, 2025	Jul. 01, 2026	Radiation (03CH03-KS)
Amplifier	EM	EM18G40G A	060851	18~40GHz	Jan. 02, 2025	Aug. 20, 2025-Aug. 28, 2025	Jan. 01, 2026	Radiation (03CH03-KS)
high gain Amplifier	EM	EM01G18G A	060834	1Ghz~18Ghz	Dec. 02, 2024	Aug. 20, 2025-Aug. 28, 2025	Dec. 01, 2025	Radiation (03CH03-KS)
Amplifier	EM	EM01G18G A	EM	1GHz~26.5GHz	Oct. 09, 2024	Aug. 20, 2025-Aug. 28, 2025	Oct. 08, 2025	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 20, 2025-Aug. 28, 2025	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 20, 2025-Aug. 28, 2025	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 20, 2025-Aug. 28, 2025	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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For WWAN Bands:

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.84 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.84 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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For BLE Bands:

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.20 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.88 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.32 dB
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Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake	Temperature :	22~25°C
		Relative Humidity :	52~56%

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	SISO	Bluetooth-LE_GSKF	00	2402	2Mbps	-	-
	LTE B85_10M_1RB0_QPSK_Middle channel							

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth-LE_GSKF	00	2389.69	40.80	54.00	-13.20	H	AVERAGE	Pass	Band Edge
1	Bluetooth-LE_GSKF	00	4804.00	52.14	54.00	-1.86	V	AVERAGE	Pass	Harmonic

CO-TX WWAN RSE Table

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	B85	134092	3537	54.83	82.2	-27.37	H	PEAK	Pass	Harmonic
		134092	3534	57.03	82.2	-25.17	V	PEAK	Pass	Harmonic
		132092	4243.5	49.99	82.2	-32.21	H	PEAK	Pass	Harmonic
		134092	4242	53.18	82.2	-29.02	V	PEAK	Pass	Harmonic
		134092	4948.5	45.02	82.2	-37.18	H	PEAK	Pass	Harmonic
		134092	4951.5	47.49	82.2	-34.71	V	PEAK	Pass	Harmonic
		134092	5655	43.66	82.2	-38.54	H	PEAK	Pass	Harmonic
		134092	5656.5	44.89	82.2	-37.31	V	PEAK	Pass	Harmonic

Note: The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

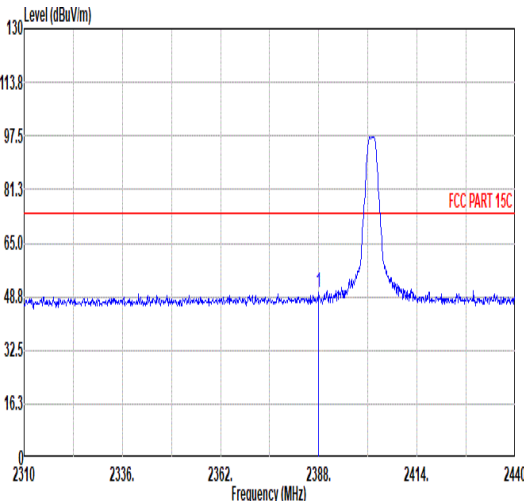
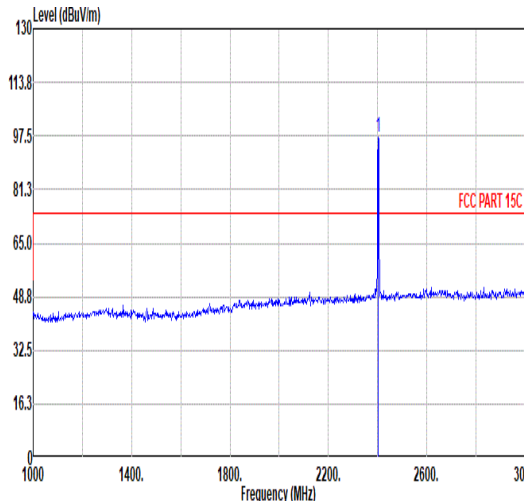
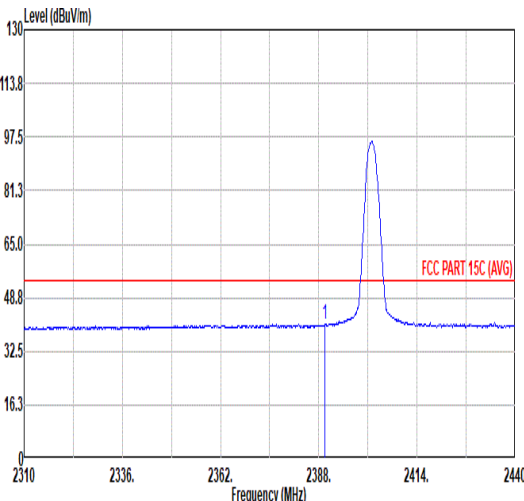
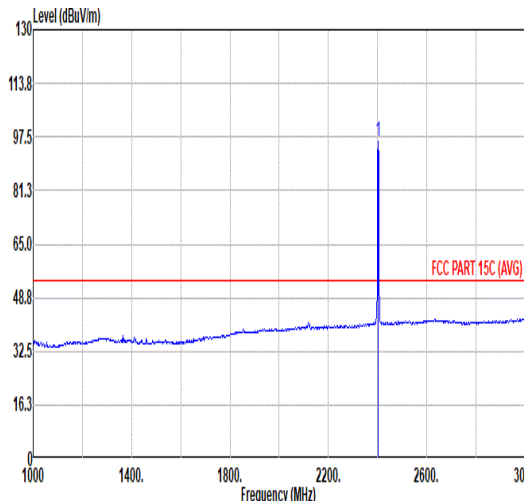
where

EIRP is the equivalent isotropically radiated power, in dBm, -13dBm

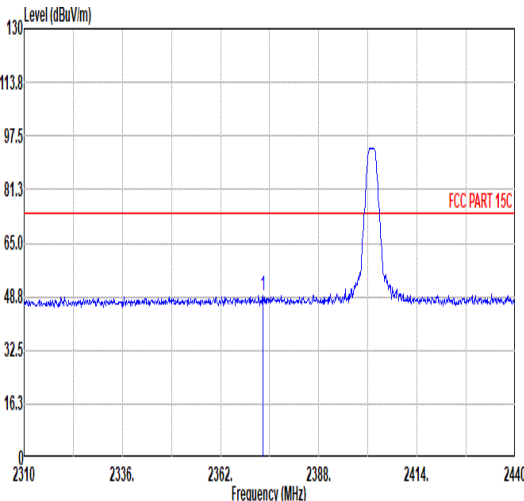
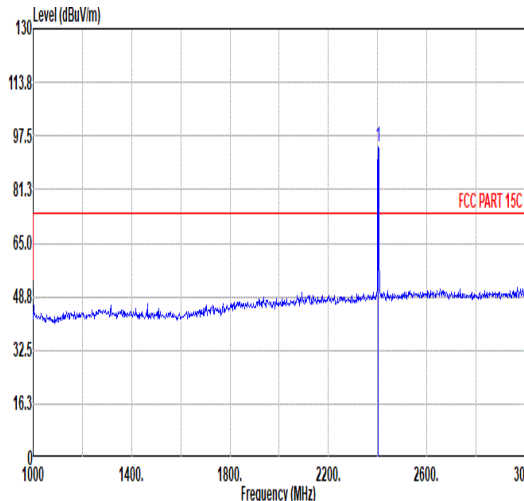
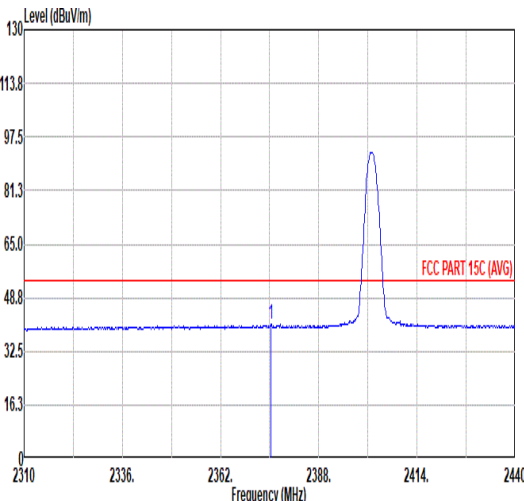
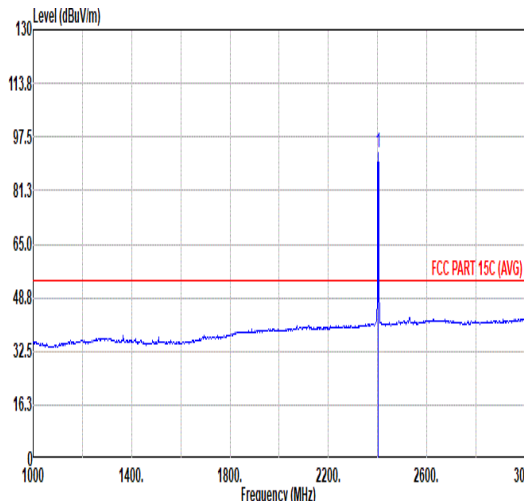
E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m

d_{Meas} is the measurement distance, in m, 3m

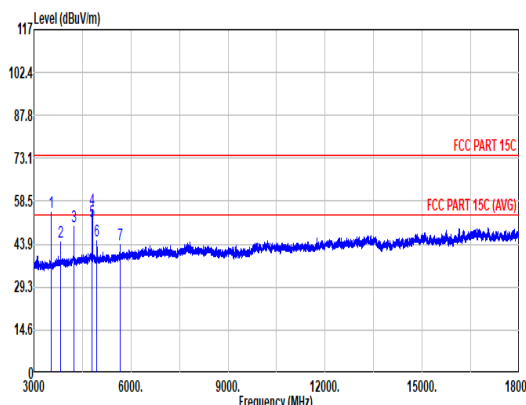
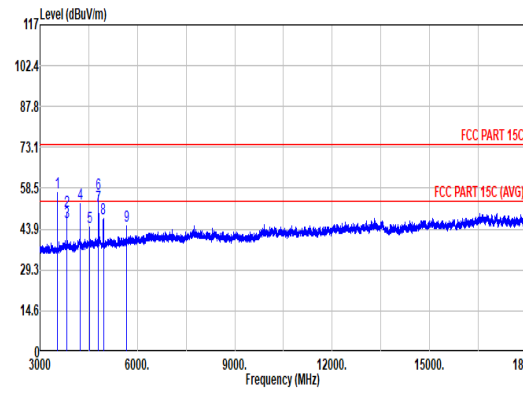


Mode	1																																																																																																				
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--	---	Peak	9	5656.50	44.89	74.00	-29.11	65.20	34.90	11.23	66.44	0.00	---	---
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1	3534.00	57.03	74.00	-16.97	80.60	33.14	8.82	65.53	0.00	---	---	Peak																																																																																																																																																																																																																																																																			
2	3816.00	50.39	74.00	-23.61	73.31	33.63	9.17	65.72	0.00	300	57	Peak																																																																																																																																																																																																																																																																			
3	3816.00	46.22	54.00	-7.78	69.14	33.63	9.17	65.72	0.00	300	57	Average																																																																																																																																																																																																																																																																			
4	4242.00	53.18	74.00	-20.82	75.30	34.24	9.64	66.00	0.00	---	---	Peak																																																																																																																																																																																																																																																																			
5	4522.50	44.51	67.44	-22.93	66.15	34.44	9.98	66.06	0.00	---	---	Peak																																																																																																																																																																																																																																																																			
6	4804.00	56.58	74.00	-17.42	77.49	34.81	10.27	65.99	0.00	341	73	PEAK																																																																																																																																																																																																																																																																			
7	4804.00	52.14	54.00	-1.86	73.05	34.81	10.27	65.99	0.00	341	73	AVERAGE																																																																																																																																																																																																																																																																			
8	4951.50	47.49	74.00	-26.51	68.32	34.79	10.43	66.05	0.00	---	---	Peak																																																																																																																																																																																																																																																																			
9	5656.50	44.89	74.00	-29.11	65.20	34.90	11.23	66.44	0.00	---	---	Peak																																																																																																																																																																																																																																																																			

Remark: #1/#3/#6/#7 of Horizontal and #1/#4/#8/#9 of Vertical are the LTE band 85 harmonics, the converted EIRP results are shown in table.



Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 2Mbps	32.907	0.206	4.854	5.1KHz

Bluetooth - LE 2Mbps

