

FCC Co-Location Test Report

FCC ID : SQG-SU60SOMC
Equipment : 802.11ac Professional Wi-Fi + BT5.0 Module
Model No. : SU60-SOMC-2G (453-00004)
Brand Name : Laird Connectivity
Applicant : Laird Connectivity
Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
Received Date : Aug. 19, 2019
Tested Date : Jan. 08 ~ Feb. 24, 2020

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR8N2101-03	Rev. 01	Initial issue	Apr. 24, 2020
FR8N2101-03	Rev. 02	Updated brand name	May 25, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 123.36MHz 42.48(Margin -1.02dB) - QP	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz, 5745 ~ 5825 MHz
Modulation Type	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
BT	
Operating Frequency	2402 MHz ~ 2480 MHz
Modulation Type	Bluetooth 4.2 LE: GFSK Bluetooth BR(1Mbps): GFSK Bluetooth EDR (2Mbps): $\pi/4$ -DQPSK Bluetooth EDR (3Mbps): 8-DPSK

Note 1: The module is installed in below host and Bluetooth function is disabled.

1.1.2 Information of Host

Brand Name	Laird
Product name	Sentrius™ IG60 Bluetooth 5, Wi-Fi, & LTE Cat 1 Gateway
Model name	Sentrius™ IG60-BL654-LTE
Certified module (installed in the system)	BT BL654 Module: SQGBL654 WWAN Module: SQG-IGUPCAT1

1.1.3 Antenna Details of Specific platform

For Wi-Fi

Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
			2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
LSR/001-0009	Dipole	IPEX U.FL	2	2	2	2	2

BT

Manufacturer	Laird Part Number	Type	Connector	Gain (dBi)
WALSIN	RFDPA870900SBAB8G1	Dipole	RP-SMA Male	2

For WWAN

Brand / Model	Type	Connector	Gain (dBi)	Operating Band
Laird/DBA6927C1	Dipole	SMA_MALE	2.2	LTE Band 2 / PCS 1900
			2.2	LTE Band 4 / WCDMA II / WCDMA Band IV
			0.5	LTE Band 5 / GSM850 / WCDMA Band V
			0.5	LTE Band 12

1.1.4 Host Accessories

Host Accessories		
No.	Equipment	Description
1	AC adapter	Brand: FRECOM Model: F30L2-120250SPACP Power Rating: I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 12Vdc, 2.5A Power Line: 1.5m non-shielded without core
2	AC Adapter	Brand Name: FRECOM Model Name: F48L-120400SPAU Power Rating: I/P: 100-240Vac, 50/60Hz, 1.4A O/P: 12Vdc, 4A Power Line: 1.5m non-shielded cable w/o core
3	DC cable	3m non-shielded without core

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Jan. 08 ~ Jan. 10, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 10, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 17, 2019	Apr. 16, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980187	Aug. 14, 2019	Aug. 13, 2020
Preamplifier	Agilent	83017A	MY53270014	Aug. 07, 2019	Aug. 06, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-80 00	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-300 0	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-130 00	131104	Sep. 27, 2019	Sep. 26, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Feb. 24, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 10, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 17, 2019	Apr. 16, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980187	Aug. 14, 2019	Aug. 13, 2020
Preamplifier	Agilent	83017A	MY53270014	Aug. 07, 2019	Aug. 06, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-80 00	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-300 0	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-130 00	131104	Sep. 27, 2019	Sep. 26, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission \leq 1GHz	± 3.96 dB
Radiated emission $>$ 1GHz	± 4.51 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH03-WS	23°C / 62-65% 22°C / 67%	Roger Lu

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Test mode
Radiated Emissions	BLE 125K CH39 + 2.4G 11g CH06 + 2G GSM850 CH251
	BLE 125K CH39 + 2.4G 11g CH06 + 2G PCS1900 CH512
	BLE 125K CH39 + 2.4G 11g CH06 + 3G WCDMA Band4 CH1513
	BLE 125K CH39 + 2.4G 11g CH06 + LTE Band 12, CH23095
	BLE 125K CH39 + 5G 11ac CH48 + 2G GSM850 CH251
	BLE 125K CH39 + 5G 11ac CH48 + 2G PCS1900 CH512
	BLE 125K CH39 + 5G 11ac CH48 + 3G WCDMA Band4 CH1513
	BLE 125K CH39 + 5G 11ac CH48 + LTE Band 12, CH23095

NOTE:

1. The selected channel is the maximum power channel of Wi-Fi mode + WWAN mode + BT mode.
2. The EUT was pretested at power supplied by Adapter and DC power. The power supplied by Adapter was found to be the worst case and was selected for final test.
3. Two adapters (F30L2-120250SPACP and F48L-120400SPAV) had been covered during the pretest, and found that Adapter F30L2-120250SPACP was the worst case and was selected for final test.

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

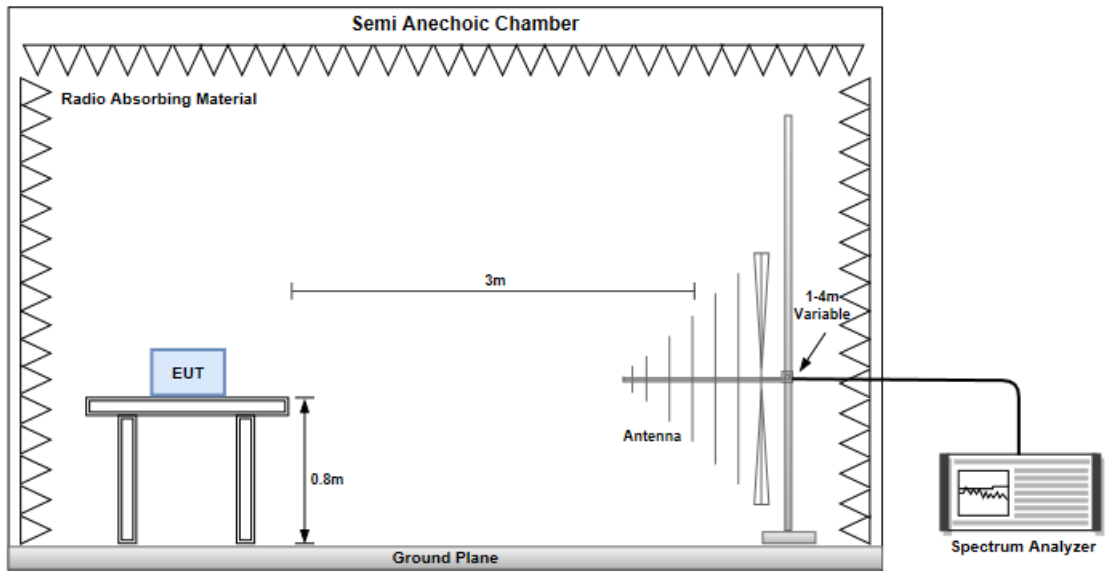
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

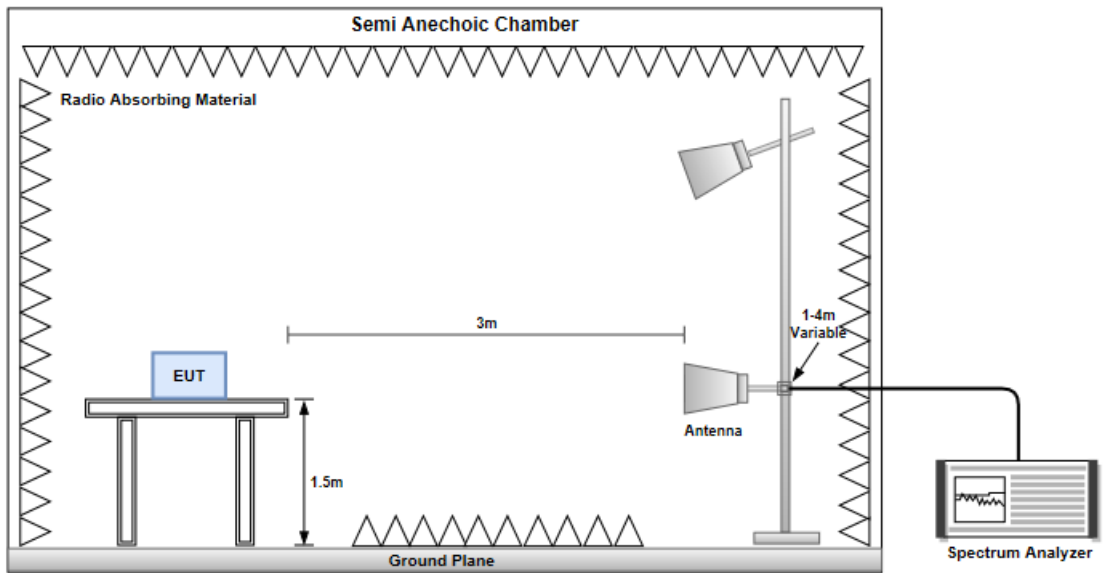
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

Radiated Emissions below 1 GHz



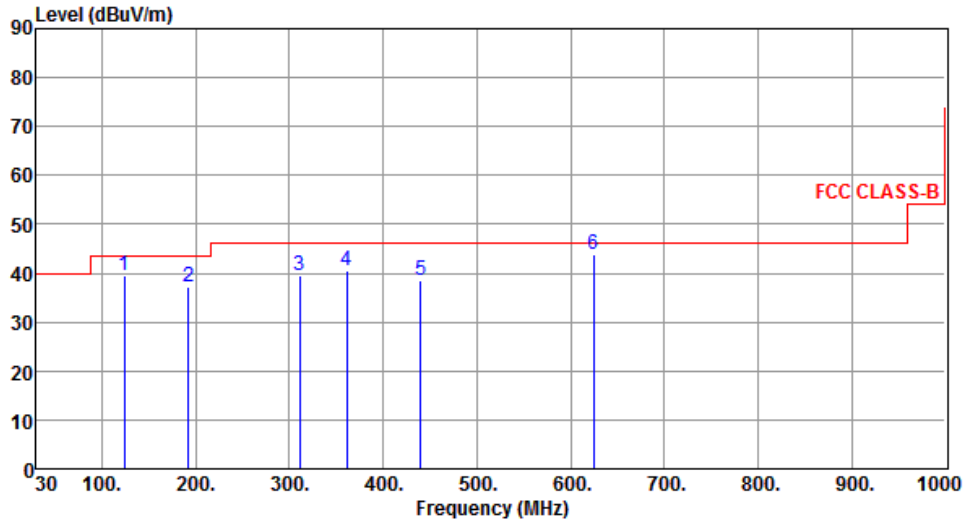
Radiated Emissions above 1 GHz



3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G GSM850 CH251								
Polarization	Horizontal								
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
					dBuV			cm	deg
1	57.26	36.17	40.00	-3.83	45.15	-8.98	Peak	---	---
2	124.39	41.61	43.50	-1.89	52.27	-10.66	QP	165	199
3	252.24	43.27	46.00	-2.73	53.20	-9.93	QP	188	292
4	334.47	41.53	46.00	-4.47	48.67	-7.14	Peak	---	---
5	408.22	42.86	46.00	-3.14	48.29	-5.43	Peak	---	---
6	624.65	41.77	46.00	-4.23	41.91	-0.14	Peak	---	---
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p>									

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G GSM850 CH251
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.14	39.45	43.50	-4.05	50.14	-10.69	Peak	---	---
2	192.08	37.35	43.50	-6.15	48.85	-11.50	Peak	---	---
3	311.36	39.47	46.00	-6.53	47.39	-7.92	Peak	---	---
4	360.84	40.41	46.00	-5.59	47.17	-6.76	Peak	---	---
5	440.38	38.44	46.00	-7.56	42.64	-4.20	Peak	---	---
6	624.68	43.69	46.00	-2.31	43.83	-0.14	QP	123	106

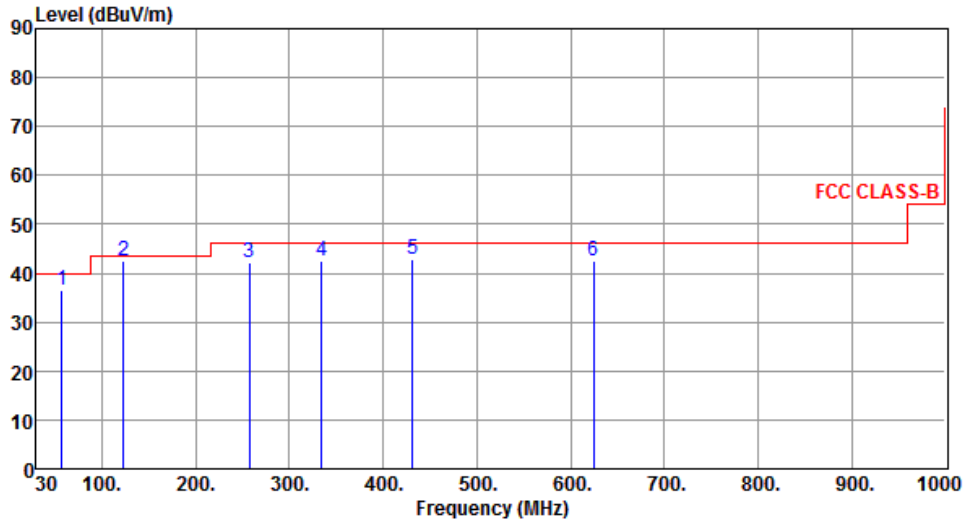
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G PCS1900 CH512
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.24	36.68	40.00	-3.32	45.66	-8.98	Peak	---	---
2	123.36	42.48	43.50	-1.02	53.18	-10.70	QP	165	189
3	257.08	42.14	46.00	-3.86	52.02	-9.88	Peak	---	---
4	334.52	42.62	46.00	-3.38	49.76	-7.14	Peak	---	---
5	431.66	42.73	46.00	-3.27	47.32	-4.59	Peak	---	---
6	624.65	42.57	46.00	-3.43	42.71	-0.14	Peak	---	---

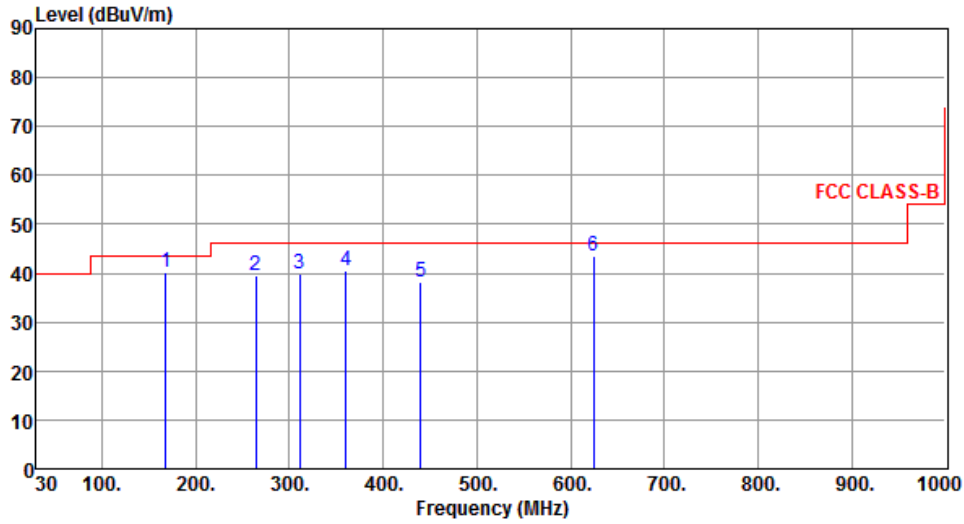
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G PCS1900 CH512
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	167.84	40.16	43.50	-3.34	49.13	-8.97	Peak	---	---
2	263.84	39.66	46.00	-6.34	49.30	-9.64	Peak	---	---
3	311.42	39.99	46.00	-6.01	47.90	-7.91	Peak	---	---
4	360.68	40.57	46.00	-5.43	47.33	-6.76	Peak	---	---
5	440.34	38.03	46.00	-7.97	42.23	-4.20	Peak	---	---
6	624.68	43.34	46.00	-2.66	43.48	-0.14	QP	125	113

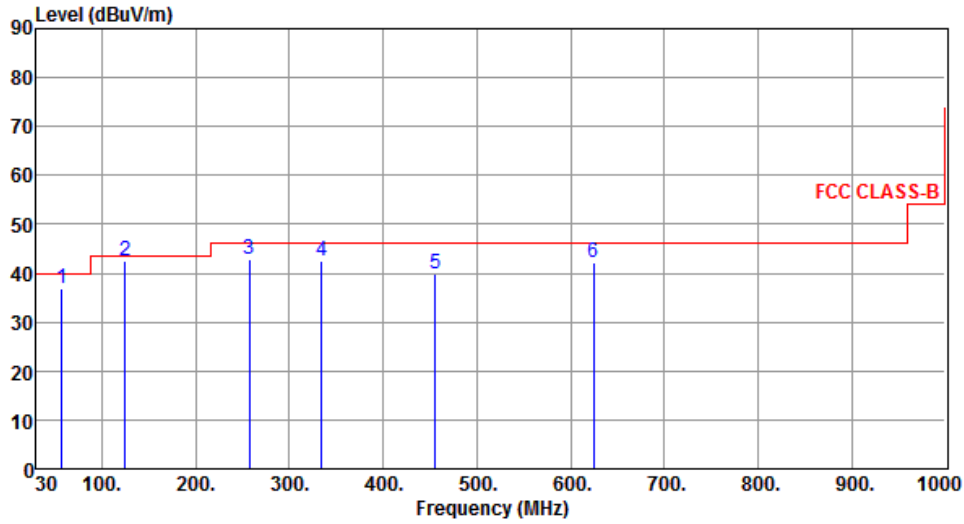
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 3G WCDMA Band4 CH1513
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.24	36.84	40.00	-3.16	45.82	-8.98	Peak	---	---
2	124.40	42.36	43.50	-1.14	53.02	-10.66	QP	169	188
3	257.31	42.94	46.00	-3.06	52.81	-9.87	Peak	---	---
4	334.62	42.41	46.00	-3.59	49.55	-7.14	Peak	---	---
5	455.69	39.98	46.00	-6.02	43.80	-3.82	Peak	---	---
6	624.67	42.25	46.00	-3.75	42.39	-0.14	Peak	---	---

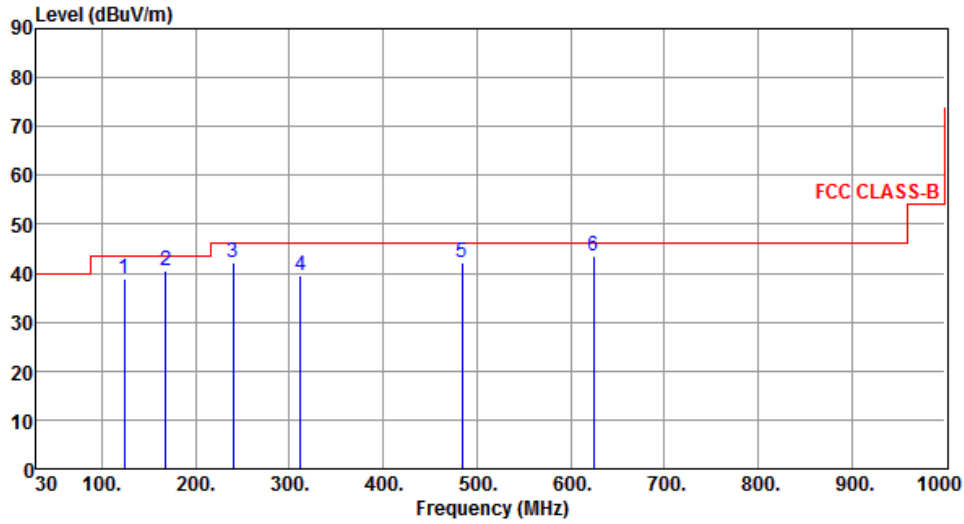
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 3G WCDMA Band4 CH1513
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.12	38.86	43.50	-4.64	49.55	-10.69	Peak	---	---
2	167.83	40.42	43.50	-3.08	49.39	-8.97	Peak	---	---
3	239.56	42.27	46.00	-3.73	52.61	-10.34	Peak	---	---
4	311.48	39.68	46.00	-6.32	47.59	-7.91	Peak	---	---
5	483.83	42.22	46.00	-3.78	45.62	-3.40	Peak	---	---
6	624.67	43.59	46.00	-2.41	43.73	-0.14	QP	126	111

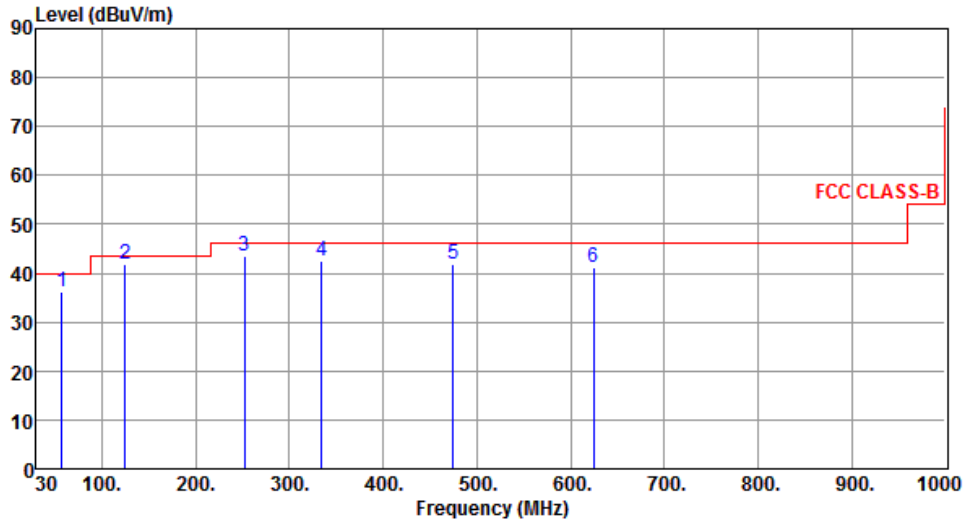
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + LTE Band 12, CH23095
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.34	36.28	40.00	-3.72	45.28	-9.00	Peak	---	---
2	124.58	41.76	43.50	-1.74	52.40	-10.64	QP	173	189
3	252.32	43.57	46.00	-2.43	53.50	-9.93	Peak	179	288
4	334.61	42.38	46.00	-3.62	49.52	-7.14	Peak	---	---
5	474.49	41.77	46.00	-4.23	45.23	-3.46	Peak	---	---
6	624.65	41.19	46.00	-4.81	41.33	-0.14	Peak	---	---

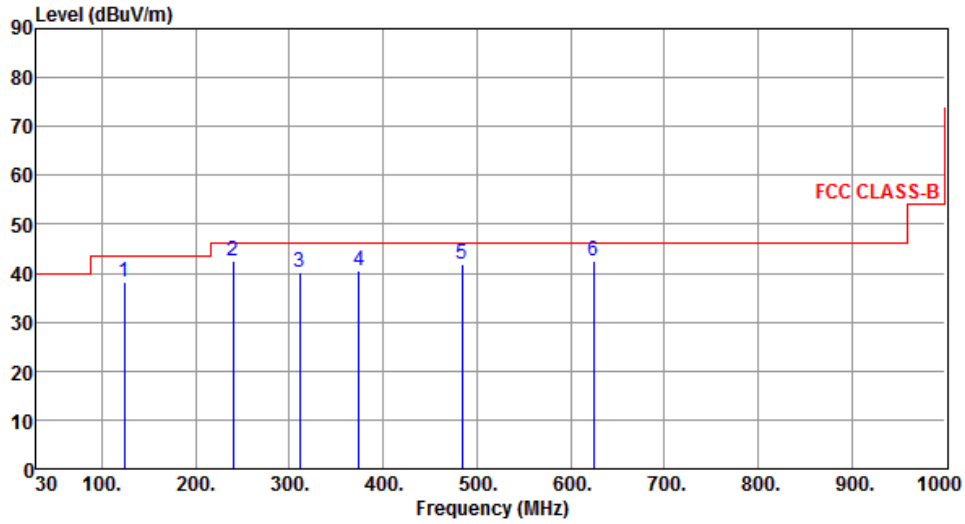
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + LTE Band 12, CH23095
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.31	38.25	43.50	-5.25	48.92	-10.67	Peak	---	---
2	239.66	42.47	46.00	-3.53	52.80	-10.33	Peak	---	---
3	311.24	40.28	46.00	-5.72	48.21	-7.93	Peak	---	---
4	374.39	40.57	46.00	-5.43	46.83	-6.26	Peak	---	---
5	483.82	41.88	46.00	-4.12	45.29	-3.41	Peak	---	---
6	624.61	42.45	46.00	-3.55	42.59	-0.14	Peak	---	---

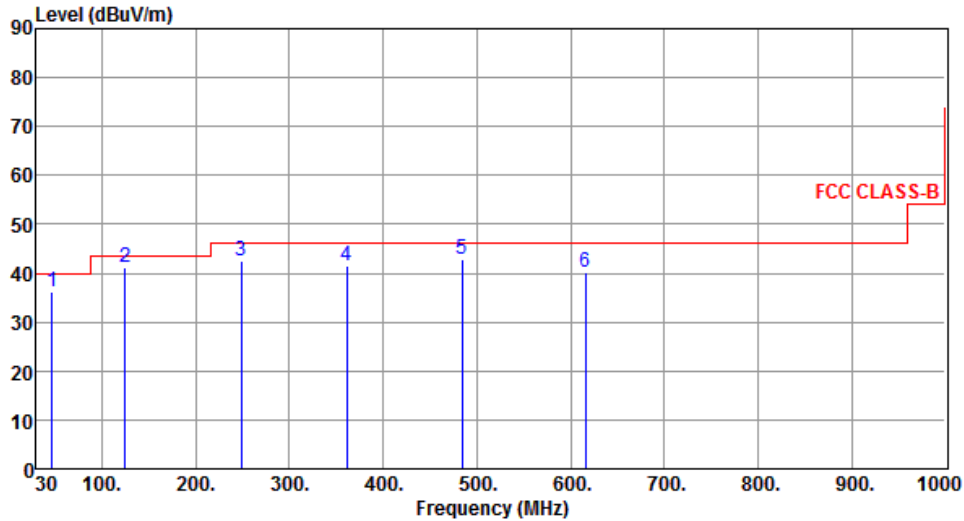
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G GSM850 CH251
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.51	36.27	40.00	-3.73	44.87	-8.60	Peak	---	---
2	124.66	41.25	43.50	-2.25	51.88	-10.63	QP	159	187
3	248.92	42.42	46.00	-3.58	52.39	-9.97	Peak	191	295
4	360.87	41.61	46.00	-4.39	48.37	-6.76	Peak	---	---
5	483.86	42.69	46.00	-3.31	46.09	-3.40	Peak	---	---
6	615.70	40.08	46.00	-5.92	40.27	-0.19	Peak	---	---

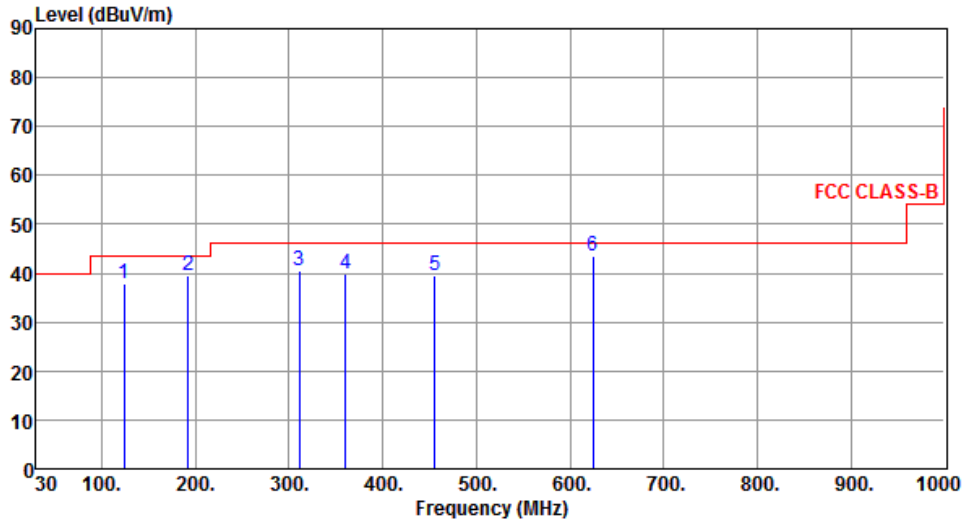
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G GSM850 CH251
Polarization	Vertical



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.16	37.82	43.50	-5.68	48.50	-10.68	Peak	---	---
2	192.13	39.54	43.50	-3.96	51.04	-11.50	Peak	---	---
3	311.21	40.46	46.00	-5.54	48.39	-7.93	Peak	---	---
4	360.67	39.77	46.00	-6.23	46.53	-6.76	Peak	---	---
5	455.92	39.36	46.00	-6.64	43.17	-3.81	Peak	---	---
6	624.60	43.37	46.00	-2.63	43.51	-0.14	QP	126	111

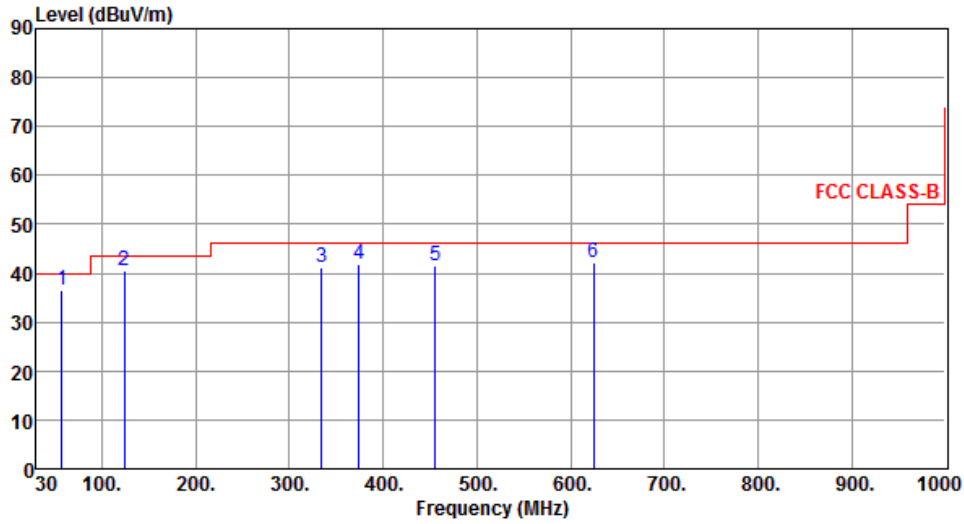
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G PCS1900 CH512
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.28	36.46	40.00	-3.54	45.45	-8.99	Peak	---	---
2	124.17	40.49	43.50	-3.01	51.17	-10.68	Peak	---	---
3	334.61	41.34	46.00	-4.66	48.48	-7.14	Peak	---	---
4	374.36	41.73	46.00	-4.27	48.00	-6.27	Peak	---	---
5	455.86	41.52	46.00	-4.48	45.33	-3.81	Peak	---	---
6	624.63	42.14	46.00	-3.86	42.28	-0.14	Peak	---	---

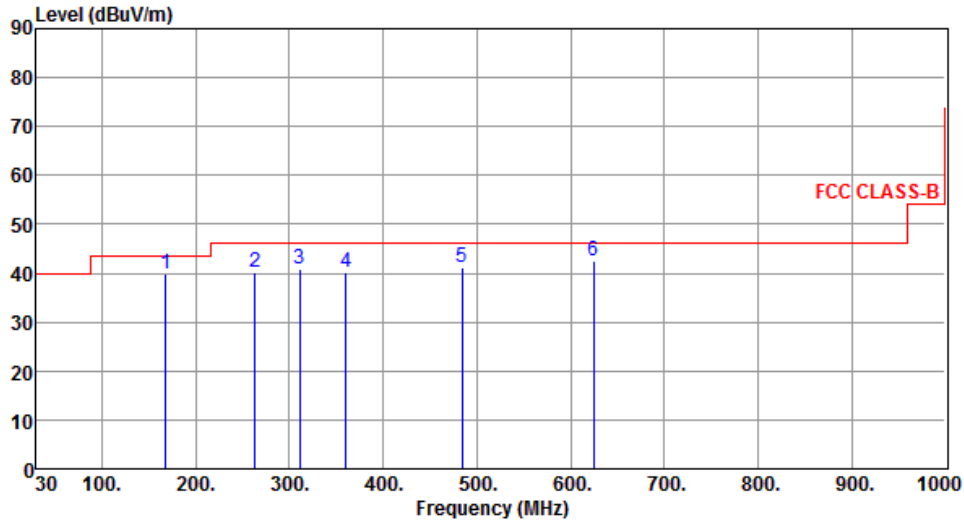
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G PCS1900 CH512
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	167.79	39.85	43.50	-3.65	48.82	-8.97	Peak	---	---
2	263.77	40.15	46.00	-5.85	49.79	-9.64	Peak	---	---
3	311.21	40.73	46.00	-5.27	48.66	-7.93	Peak	---	---
4	360.64	40.23	46.00	-5.77	46.99	-6.76	Peak	---	---
5	483.82	41.26	46.00	-4.74	44.67	-3.41	Peak	---	---
6	624.67	42.49	46.00	-3.51	42.63	-0.14	Peak	---	---

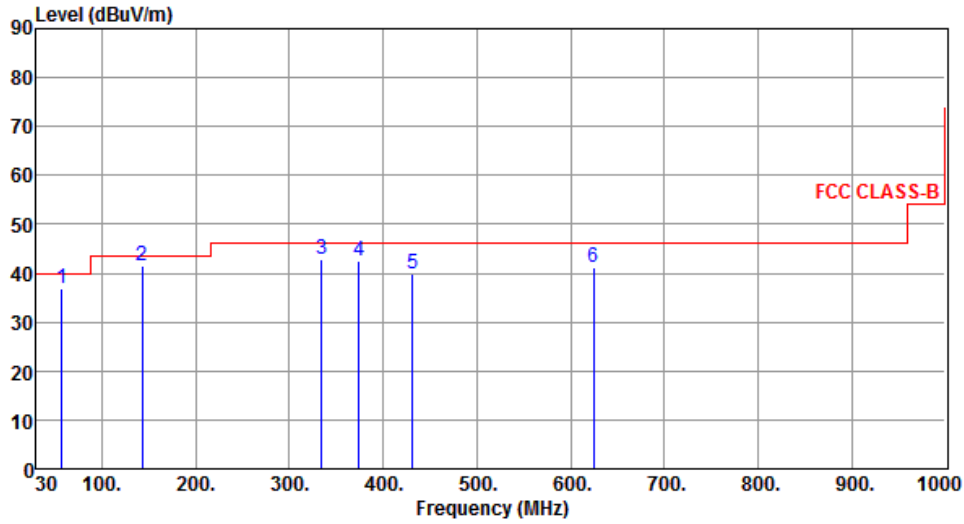
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 3G WCDMA Band4 CH1513
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.22	36.84	40.00	-3.16	45.81	-8.97	Peak	---	---
2	143.36	41.42	43.50	-2.08	50.34	-8.92	QP	173	202
3	334.66	42.73	46.00	-3.27	49.87	-7.14	Peak	---	---
4	374.41	42.49	46.00	-3.51	48.75	-6.26	Peak	---	---
5	431.56	39.81	46.00	-6.19	44.41	-4.60	Peak	---	---
6	624.53	41.27	46.00	-4.73	41.41	-0.14	Peak	---	---

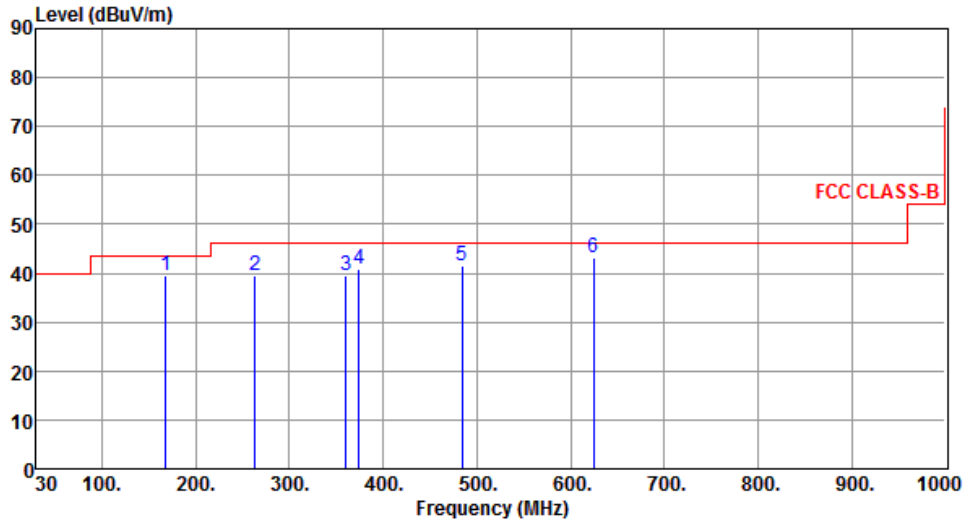
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 3G WCDMA Band4 CH1513
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	167.83	39.44	43.50	-4.06	48.41	-8.97	Peak	---	---
2	263.75	39.56	46.00	-6.44	49.20	-9.64	Peak	---	---
3	360.64	39.59	46.00	-6.41	46.35	-6.76	Peak	---	---
4	374.18	40.88	46.00	-5.12	47.15	-6.27	Peak	---	---
5	483.83	41.65	46.00	-4.35	45.05	-3.40	Peak	---	---
6	624.50	43.10	46.00	-2.90	43.24	-0.14	QP	122	131

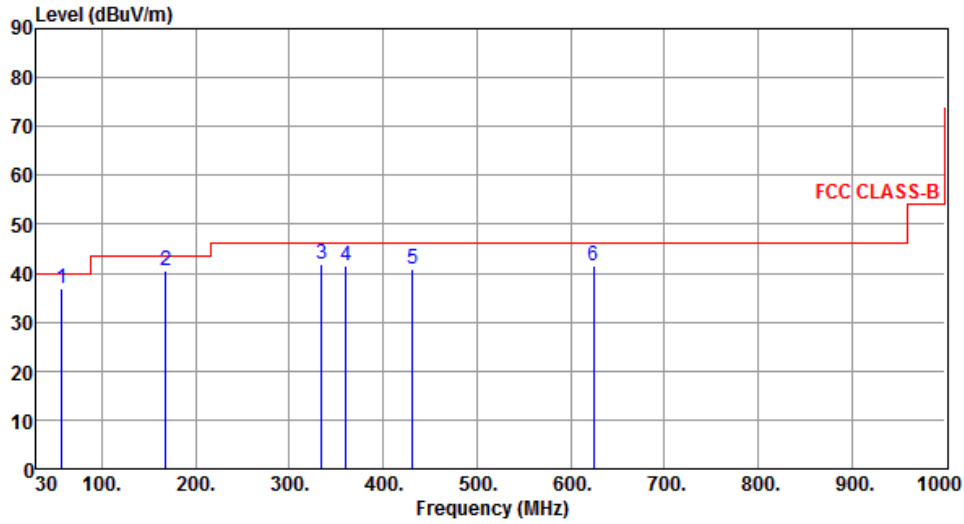
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + LTE Band 12, CH23095
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	57.23	36.73	40.00	-3.27	45.71	-8.98	Peak	---	---
2	167.79	40.46	43.50	-3.04	49.43	-8.97	Peak	---	---
3	334.41	41.98	46.00	-4.02	49.12	-7.14	Peak	---	---
4	360.74	41.66	46.00	-4.34	48.42	-6.76	Peak	---	---
5	431.50	40.96	46.00	-5.04	45.57	-4.61	Peak	---	---
6	624.68	41.41	46.00	-4.59	41.55	-0.14	Peak	---	---

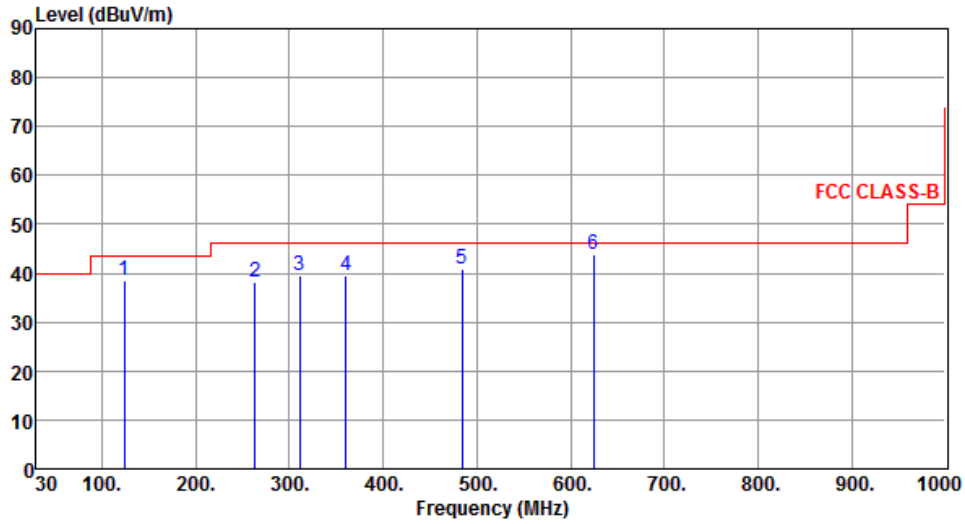
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE 125K CH39 + 5G 11ac CH48 + LTE Band 12, CH23095
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.14	38.38	43.50	-5.12	49.07	-10.69	Peak	---	---
2	263.65	38.31	46.00	-7.69	47.95	-9.64	Peak	---	---
3	311.24	39.59	46.00	-6.41	47.52	-7.93	Peak	---	---
4	360.48	39.48	46.00	-6.52	46.26	-6.78	Peak	---	---
5	483.83	40.86	46.00	-5.14	44.26	-3.40	Peak	---	---
6	624.57	43.93	46.00	-2.07	44.07	-0.14	QP	131	121

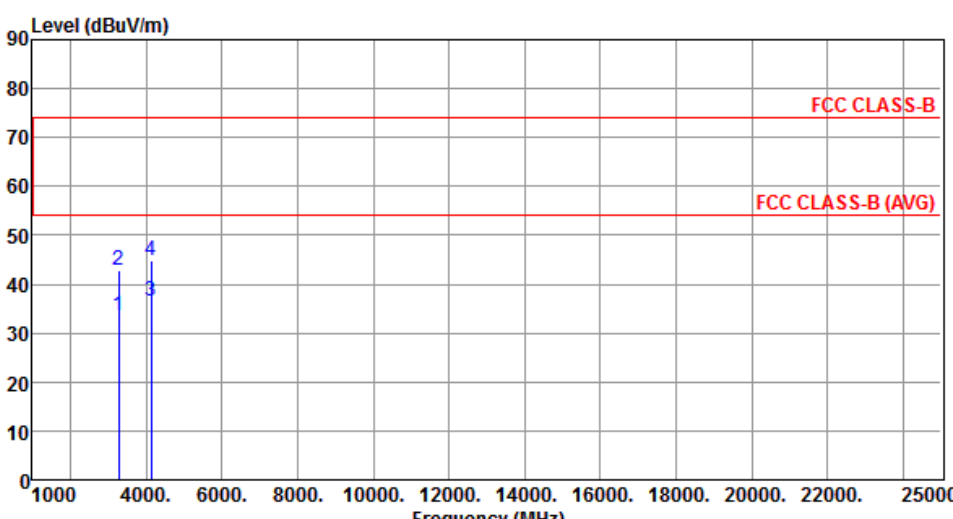
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

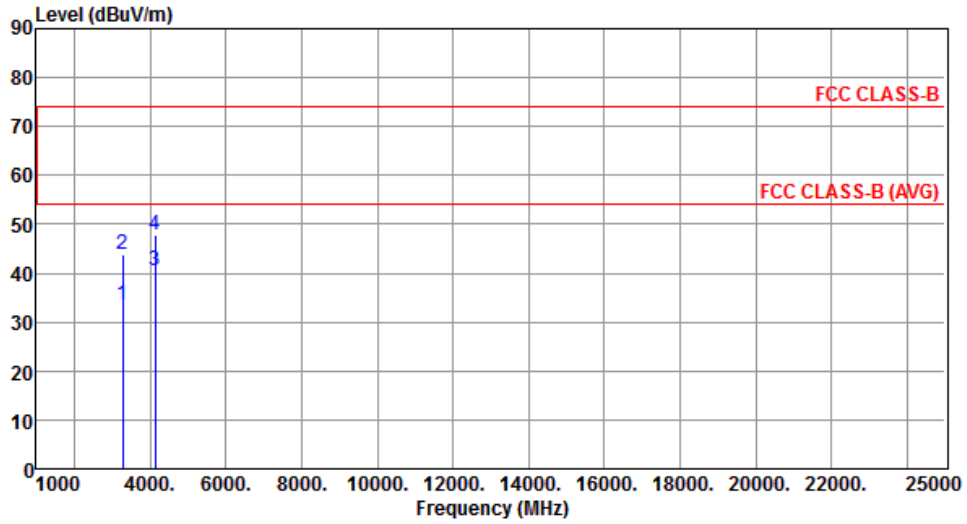
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.1.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G GSM850 CH251								
Polarization	Horizontal								
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	3285.80	33.41	54.00	-20.59	31.22	2.19	Average	100	40
2	3285.80	42.75	74.00	-31.25	40.56	2.19	Peak	100	40
3	4134.60	36.68	54.00	-17.32	32.28	4.40	Average	100	60
4	4134.60	44.86	74.00	-29.14	40.46	4.40	Peak	100	60
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G GSM850 CH251
Polarization	Vertical



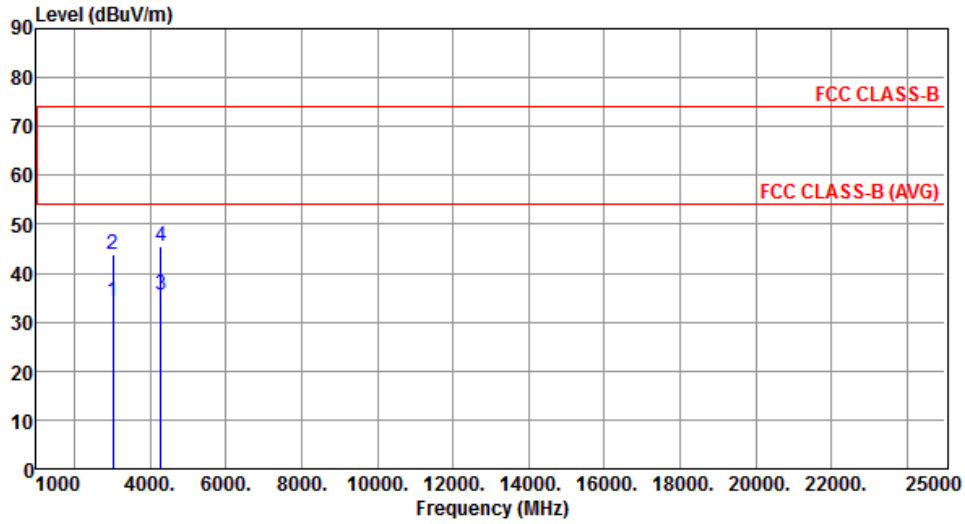
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3285.80	33.44	54.00	-20.56	31.25	2.19	Average	100	50
2	3285.80	43.68	74.00	-30.32	41.49	2.19	Peak	100	50
3	4134.60	40.47	54.00	-13.53	36.07	4.40	Average	100	28
4	4134.60	47.91	74.00	-26.09	43.51	4.40	Peak	100	28

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G PCS1900 CH512
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3023.80	34.24	54.00	-19.76	32.45	1.79	Average	100	93
2	3023.80	43.74	74.00	-30.26	41.95	1.79	Peak	100	93
3	4287.20	35.67	54.00	-18.33	30.73	4.94	Average	100	70
4	4287.20	45.39	74.00	-28.61	40.45	4.94	Peak	100	70

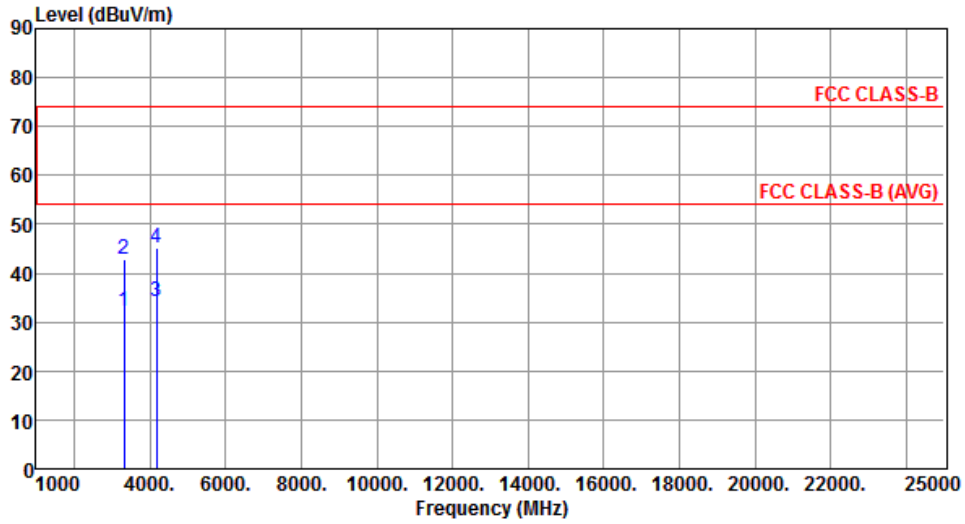
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 2G PCS1900 CH512								
Polarization	Vertical								
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	3023.80	38.23	54.00	-15.77	36.44	1.79	Average	100	151
2	3023.80	47.73	74.00	-26.27	45.94	1.79	Peak	100	151
3	4287.20	36.43	54.00	-17.57	31.49	4.94	Average	100	50
4	4287.20	45.18	74.00	-28.82	40.24	4.94	Peak	100	50
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

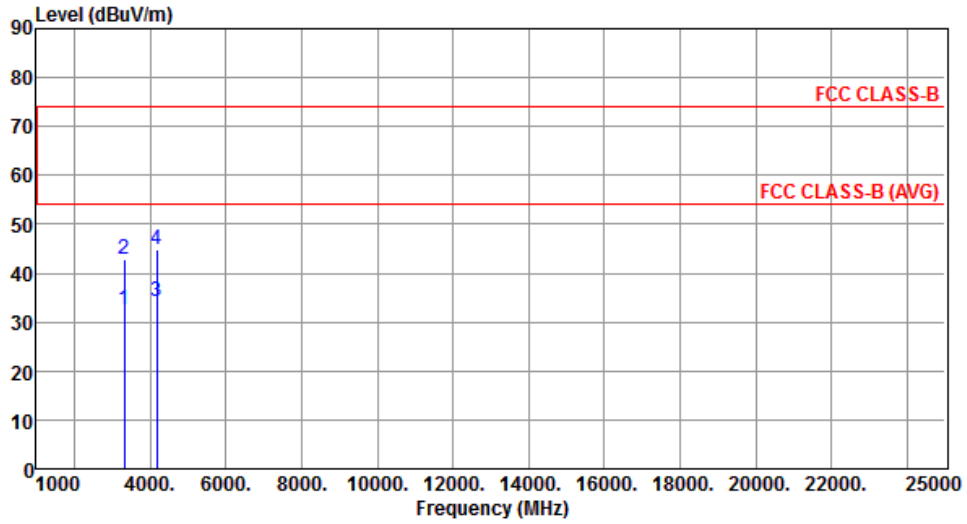
Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 3G WCDMA Band4 CH1513
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3313.30	32.37	54.00	-21.63	30.24	2.13	Average	100	20
2	3313.30	42.82	74.00	-31.18	40.69	2.13	Peak	100	20
3	4189.60	34.10	54.00	-19.90	29.55	4.55	Average	100	50
4	4189.60	45.20	74.00	-28.80	40.65	4.55	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + 3G WCDMA Band4 CH1513
Polarization	Vertical



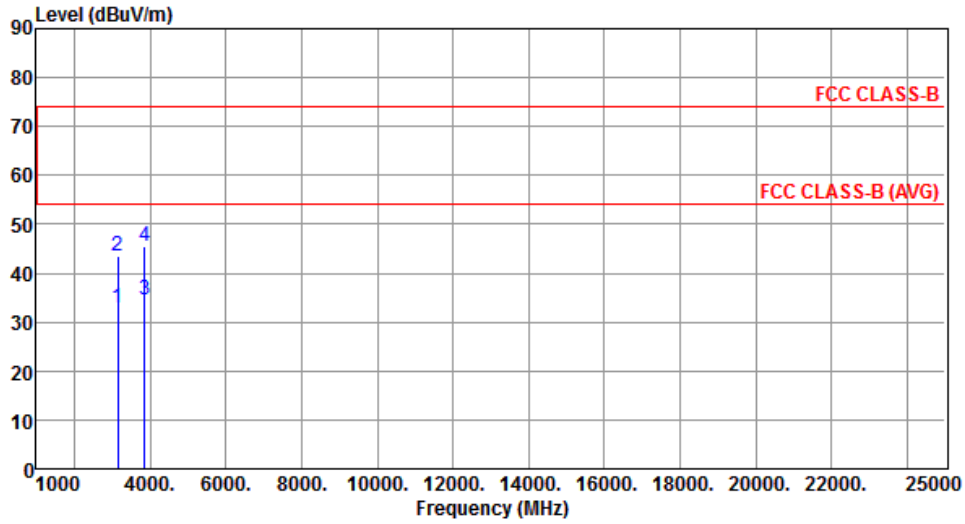
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3313.30	32.38	54.00	-21.62	30.25	2.13	Average	100	10
2	3313.30	42.72	74.00	-31.28	40.59	2.13	Peak	100	10
3	4189.60	34.33	54.00	-19.67	29.78	4.55	Average	100	70
4	4189.60	44.80	74.00	-29.20	40.25	4.55	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

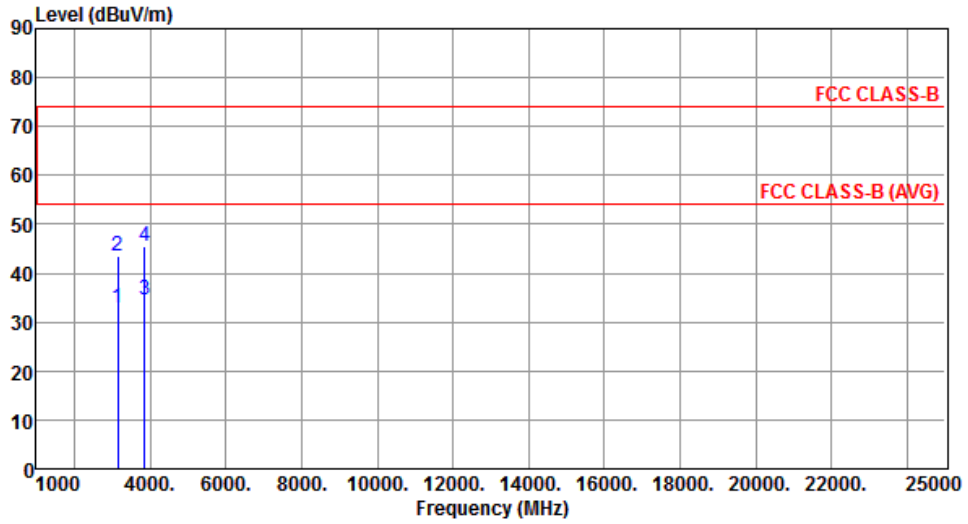
Test mode	BLE 125K CH39 + 2.4G 11g CH06 + LTE Band 12, CH23095
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3144.00	32.97	54.00	-21.03	30.65	2.32	Average	100	50
2	3144.00	43.63	74.00	-30.37	41.31	2.32	Peak	100	50
3	3851.00	34.56	54.00	-19.44	30.57	3.99	Average	100	70
4	3851.00	45.44	74.00	-28.56	41.45	3.99	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 2.4G 11g CH06 + LTE Band 12, CH23095
Polarization	Vertical



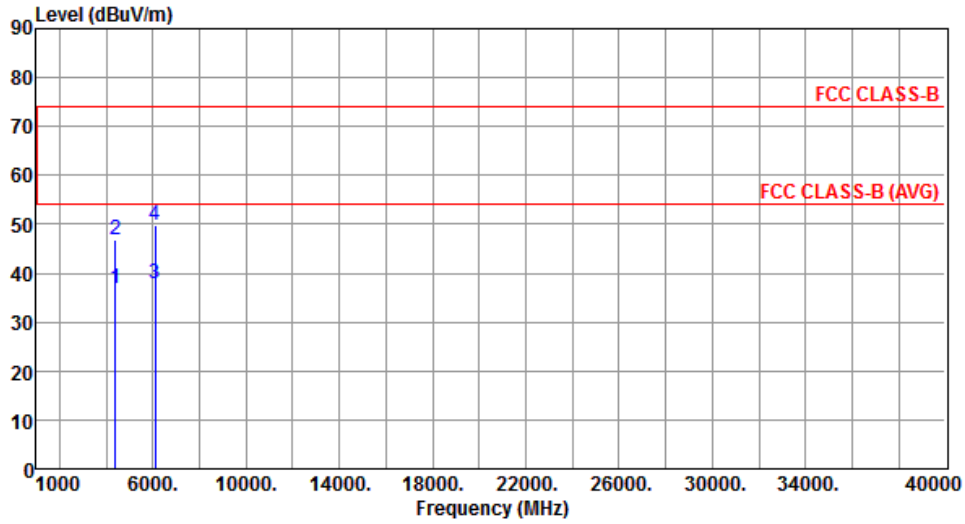
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3144.00	32.77	54.00	-21.23	30.45	2.32	Average	100	30
2	3144.00	43.57	74.00	-30.43	41.25	2.32	Peak	100	30
3	3851.00	34.60	54.00	-19.40	30.61	3.99	Average	100	50
4	3851.00	45.57	74.00	-28.43	41.58	3.99	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G GSM850 CH251
Polarization	Horizontal



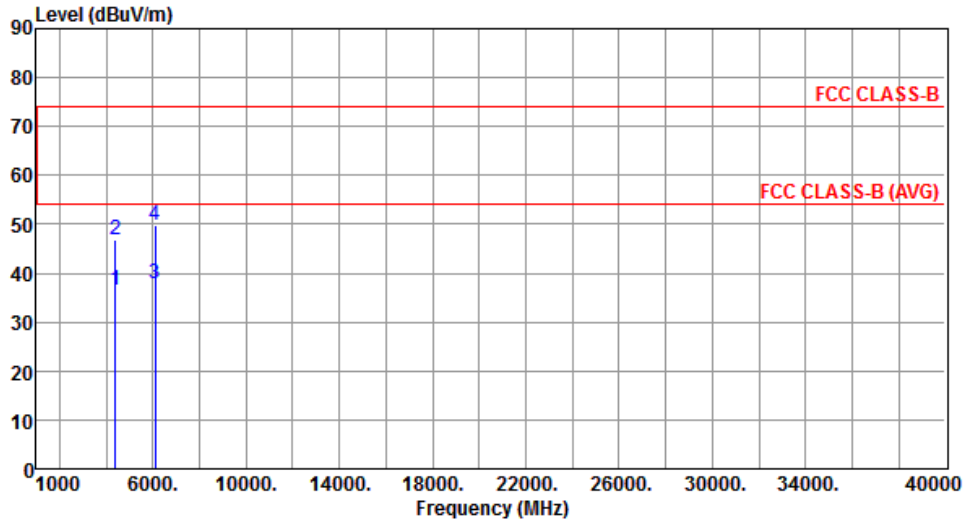
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4391.20	36.85	54.00	-17.15	31.57	5.28	Average	100	40
2	4391.20	46.88	74.00	-27.12	41.60	5.28	Peak	100	40
3	6088.80	37.73	54.00	-16.27	29.44	8.29	Average	100	70
4	6088.80	49.86	74.00	-24.14	41.57	8.29	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

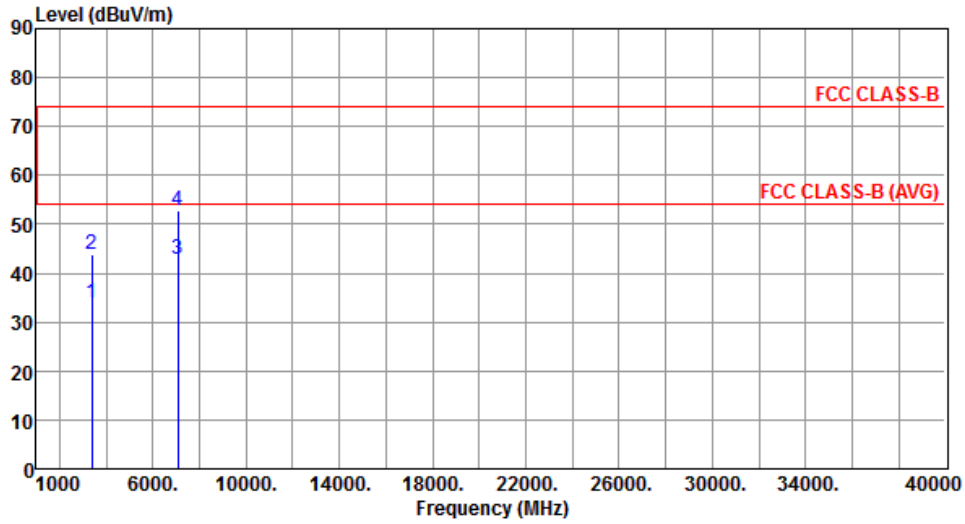
Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G GSM850 CH251
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4391.20	36.54	54.00	-17.46	31.26	5.28	Average	100	20
2	4391.20	46.83	74.00	-27.17	41.55	5.28	Peak	100	20
3	6088.80	37.96	54.00	-16.04	29.67	8.29	Average	100	30
4	6088.80	49.66	74.00	-24.34	41.37	8.29	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G PCS1900 CH512
Polarization	Horizontal



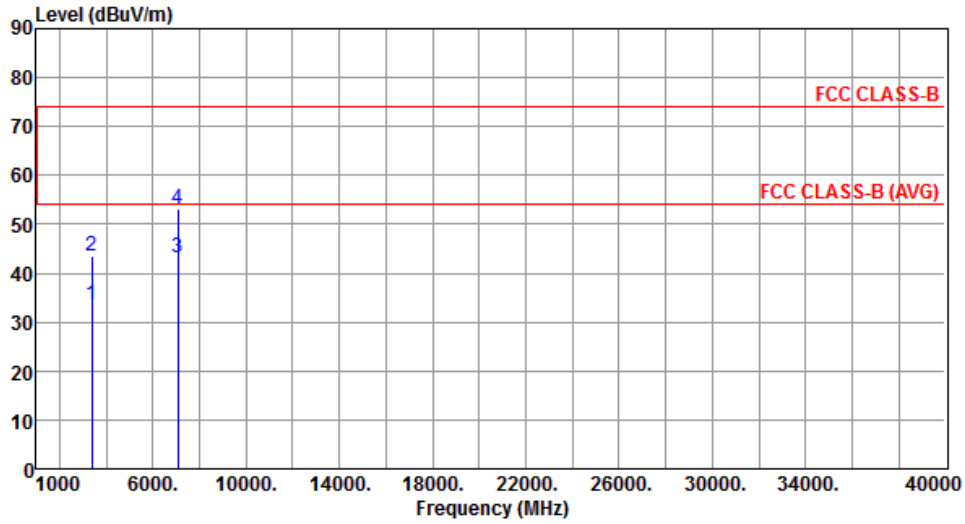
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3389.80	33.71	54.00	-20.29	31.56	2.15	Average	100	80
2	3389.80	43.72	74.00	-30.28	41.57	2.15	Peak	100	80
3	7090.20	42.91	54.00	-11.09	31.65	11.26	Average	100	40
4	7090.20	52.85	74.00	-21.15	41.59	11.26	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

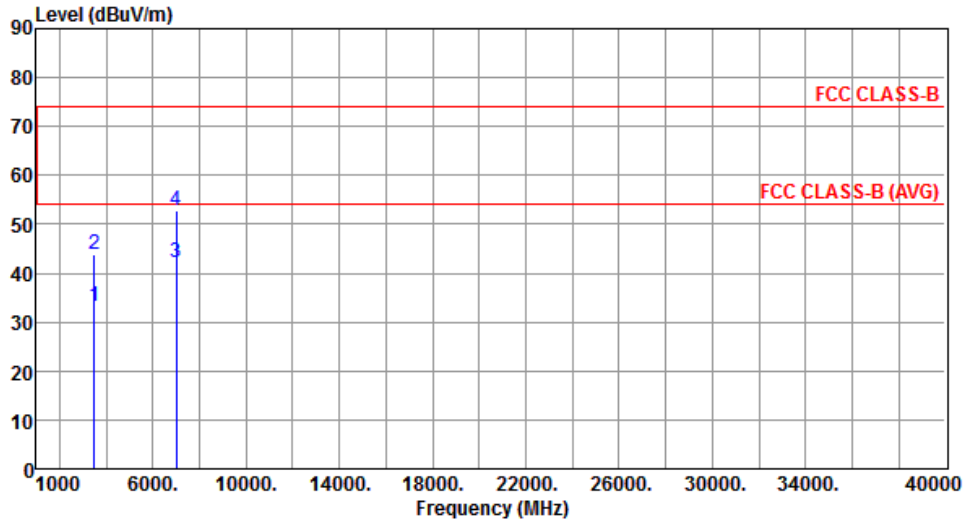
Test mode	BLE 125K CH39 + 5G 11ac CH48 + 2G PCS1900 CH512
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3389.80	33.62	54.00	-20.38	31.47	2.15	Average	100	90
2	3389.80	43.50	74.00	-30.50	41.35	2.15	Peak	100	90
3	7090.20	43.11	54.00	-10.89	31.85	11.26	Average	100	30
4	7090.20	53.26	74.00	-20.74	42.00	11.26	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 5G 11ac CH48 + 3G WCDMA Band4 CH1513
Polarization	Horizontal



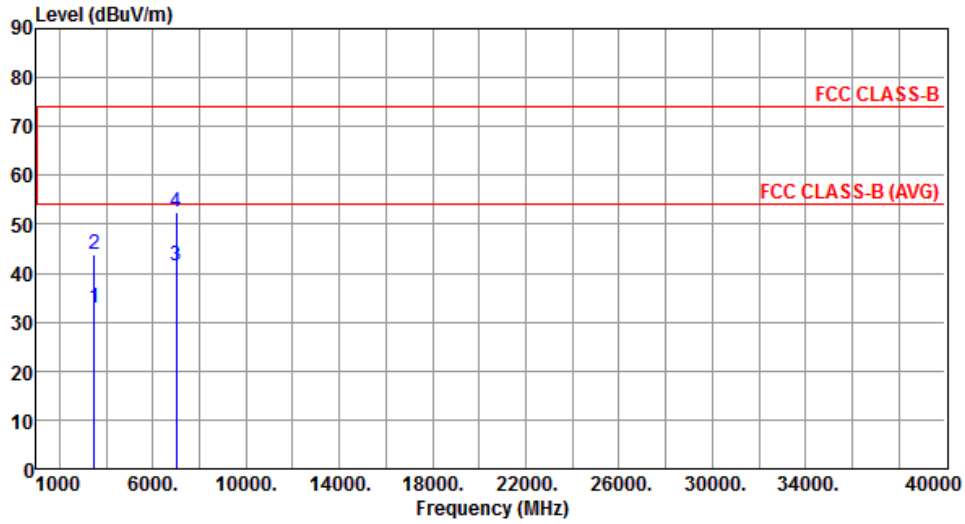
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3487.40	33.07	54.00	-20.93	30.48	2.59	Average	100	25
2	3487.40	43.85	74.00	-30.15	41.26	2.59	Peak	100	25
3	6992.60	42.07	54.00	-11.93	31.25	10.82	Average	100	40
4	6992.60	52.96	74.00	-21.04	42.14	10.82	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

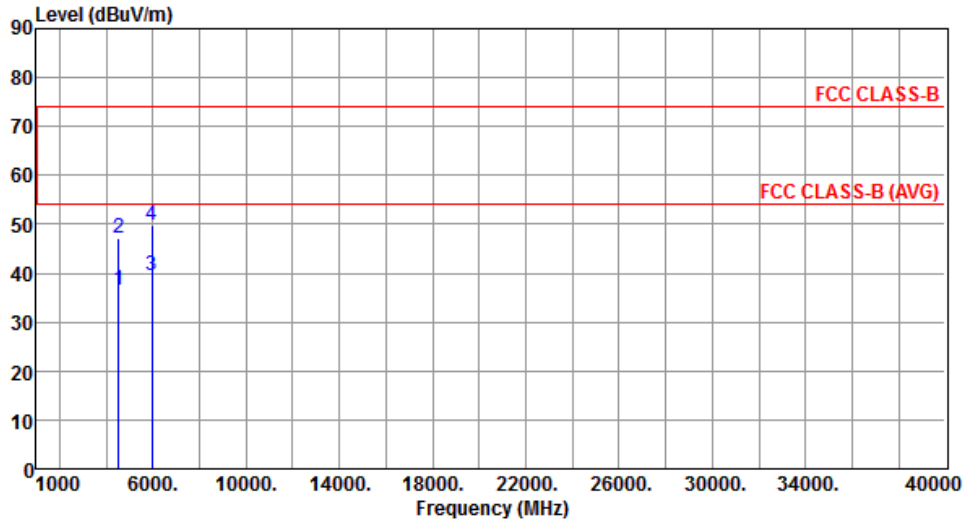
Test mode	BLE 125K CH39 + 5G 11ac CH48 + 3G WCDMA Band4 CH1513
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3487.40	33.01	54.00	-20.99	30.42	2.59	Average	100	90
2	3487.40	43.94	74.00	-30.06	41.35	2.59	Peak	100	90
3	6992.60	41.66	54.00	-12.34	30.84	10.82	Average	100	50
4	6992.60	52.39	74.00	-21.61	41.57	10.82	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 5G 11ac CH48 + LTE Band 12, CH23095
Polarization	Horizontal



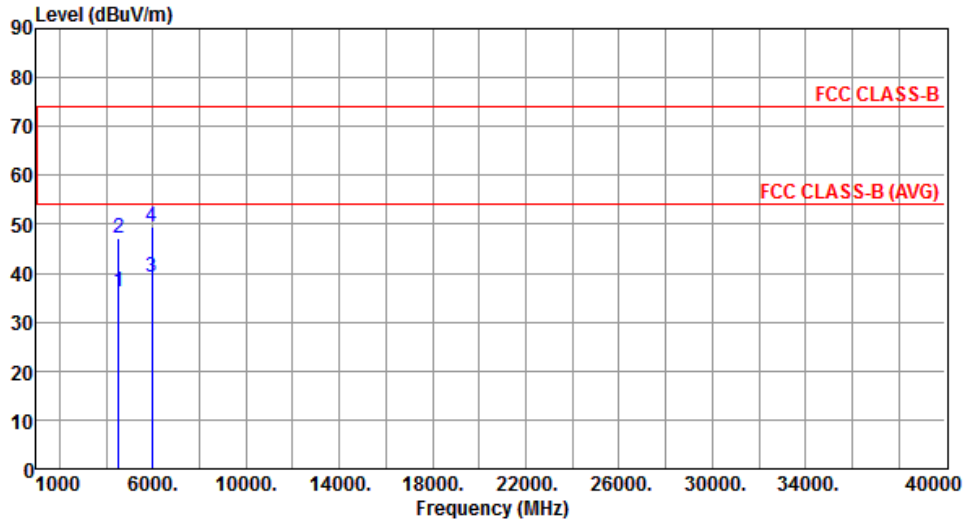
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4533.00	36.52	54.00	-17.48	30.75	5.77	Average	100	25
2	4533.00	47.00	74.00	-27.00	41.23	5.77	Peak	100	25
3	5947.00	39.36	54.00	-14.64	31.24	8.12	Average	100	40
4	5947.00	49.72	74.00	-24.28	41.60	8.12	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE 125K CH39 + 5G 11ac CH48 + LTE Band 12, CH23095
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4533.00	36.31	54.00	-17.69	30.54	5.77	Average	100	20
2	4533.00	47.31	74.00	-26.69	41.54	5.77	Peak	100	20
3	5947.00	39.34	54.00	-14.66	31.22	8.12	Average	100	30
4	5947.00	49.49	74.00	-24.51	41.37	8.12	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

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