

Prüfbericht-Nr.: Test report no.:	CN23BV1T 003	Auftrags-Nr.: Order no.:	27201804	Seite 1 von 19 Page 1 of 19
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-01-12	
Auftraggeber: Client:	Harman International Industries, Incorporated 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: Test item:	Bluetooth Module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	QCC5181 (Trademark: JBL)			
Auftrags-Inhalt: Order content:	FCC & IC approval			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4, July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2026-01-30	Please refer to photo documents		
Prüfmuster-Nr.: Test sample no.:	A004200803			
Prüfzeitraum: Testing period:	2026-01-30 – 2026-02-06			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2026-04-01	Ausstellungsdatum: Issue date: 2026-04-01			
Stellung / Position	Project Manager	Stellung / Position	Authorizer	
Sonstiges / Other:	FCC ID: API-QCC5181 IC: 6132A-QCC5181 HVIN: QCC5181 This test report is based on above original grant for below changes: 1. Adding alternative antenna 2. re-assessment co-location radiated spurious emissions			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</i></p> <p><i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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Test Summary

5.1.1 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.2 CO-LOCATED RADIATED SPURIOUS EMISSIONS

RESULT: Pass

5.1.3 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Radiated Testing (Bluetooth module).

Appendix C: Test Results of with host

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Registration No.: CN1260

IC Registration No.: 25069 and the CAB identifier is CN0078.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	22.09.2026
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	22.09.2026
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	22.09.2026
DC Power Supply	Keysight	E3642A	MY61276100	22.09.2026
Wireless Connectivity Tester	R&S	CMW270	102505	22.09.2026
Power Control Unit	Tonscend	JS0806-4ADC	N/A	22.09.2026
Automation Control Unit	Tonscend	JS0806-2	21C8060396	22.09.2026
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	22.09.2026
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	21.09.2026
Signal Analyzer	R&S	FSV 40	101439	21.09.2026
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	21.09.2026
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	21.09.2026
Amplifier	R&S	SCU-18F	180070	21.09.2026
Amplifier	R&S	SCU40A	100475	21.09.2026
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	13.09.2027

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Conducted Emission on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2026-02-09
Artificial Mains Network	R&S	ENV432	101546	2026-02-09
Artificial Mains Network	R&S	ENV432	101411	2026-07-18
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Item		Extended Uncertainty
Conducted Emission		± 2.74 dB
Radiated Emission (30-1000MHz)	Field strength (dBµV/m)	4.27dB
Radiated Emission (above 1000MHz)	Field strength (dBµV/m)	4.46dB
Radio Spectrum		± 1.5 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

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2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth Module, it supports and Bluetooth dual mode wireless technology.

This test report is based on original grant for below changes:

Changes	Description
Adding alternative antenna	Original antenna: Dipole Antenna, 1.24dBi gain New antenna: PCB antenna, 2.34dBi gain
re-assessment co-location radiated spurious emissions	Bluetooth Module
	FCC ID: API-QCC5181 IC: 6132A-QCC5181
	Bluetooth + Wi-Fi Module
	FCC ID: 2ADBM-LS10, IC: 20276-LS10
	Accommodate the above modules into the Host system Audio Video Amplifier with model: AVA15, AVA25, AVA35 and Audio Video Processor with model: AVP45

Based on above changes, the Radiated Spurious Emissions for module QCC5181 with new antenna, re-assessment co-location radiated spurious emissions with host.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Bluetooth Module
Type Designation	QCC5181
Trade Mark	JBL
FCC ID	API-QCC5181
IC	6132A-QCC5181
HVIN	QCC5181
Operating Voltage	DC 5V
Testing Voltage	DC 5V via USB interface for Bluetooth Module AC 120V/60Hz for Host AVA15, AVA25, AVA35 and AVP45

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Technical Specification of Classical Bluetooth	
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	PCB Antenna
Antenna Gain	2.34 dBi (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Operating Frequency	2402 – 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Modulation	GFSK
Data rate	1Mbps, 2Mbps
Antenna Type	PCB Antenna
Antenna Gain	2.34 dBi (Provided by the Client)

Table 3: RF Channel and Frequency of Bluetooth (BDR & EDR)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Classical Bluetooth wireless transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Bluetooth Low Energy wireless transmitting
 - 4. Low channel
 - 5. Middle channel
 - 6. High channel
- C. co-located transmitting in host AVA15
- D. co-located transmitting in host AVA25
- E. co-located transmitting in host AVA35
- F. co-located transmitting in host AVP45
- G. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024.

According to clause 3.1, the Radiated Spurious Emissions were arranged retest

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook	Lenovo	ThinkPad X260	N/A
Resistance 1	Lab provided	/	4 Ohm
Resistance 2	Lab provided	/	10K Ohm
Speaker 1	Harman	Go Play 3	N/A
Router	APPLE	A1521	C86V312VFJ1R
USB Disk	Kingston	IronKey S1000	N/A
Digital multimeter	Fluke	18B+	42274005WS
DVD Player	GIEC	BDP-G3606	BD3606LXXM200610 00285
TV	PHILIPS	272P7V	AUCA183300007547 2
Laptop	Lenovo	L470	N/A
Mobile phone	SAMSUNG	Galaxy Z Fold4	RFCT80V5XYF
Mobile phone	Huawei	STK-AL00	A00000B986B576

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

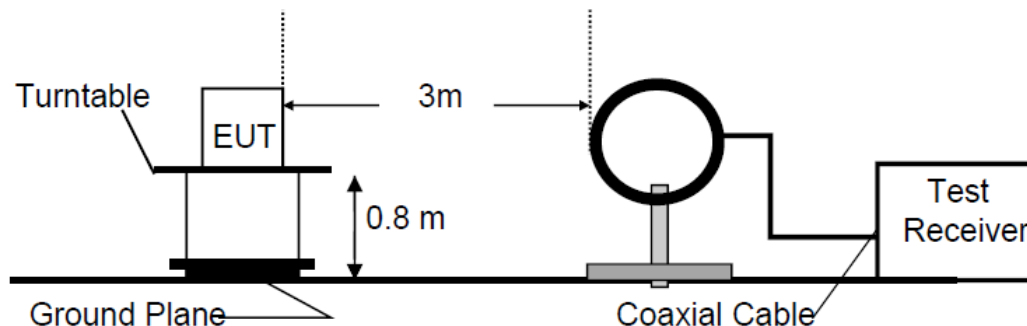


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

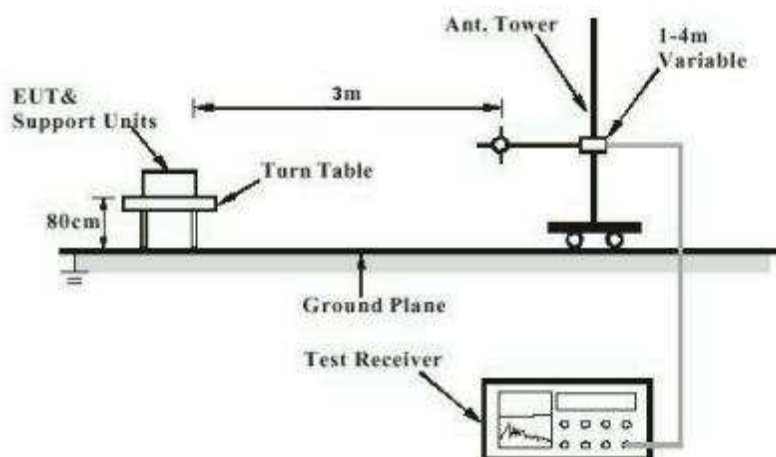


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

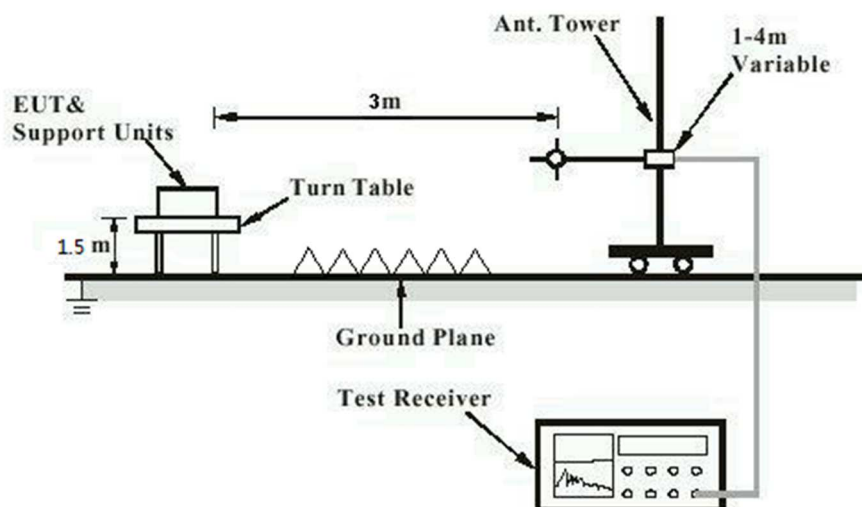
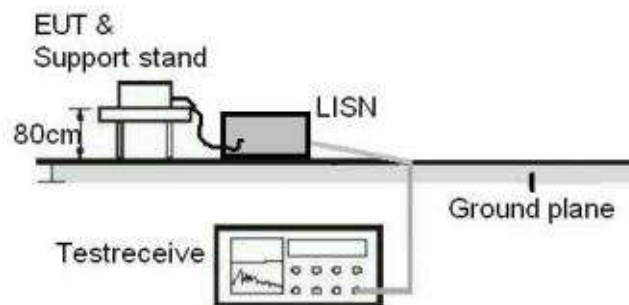


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-01-30 to 2026-02-06
Input voltage	: DC 5V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

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5.1.2 Co-Located Radiated Spurious Emissions

RESULT:

Pass

Test Specification

Test standard	: CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
Limits	: KDB 996369 D04 The emissions not exceed the highest limit.
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-01-30 to 2026-02-06
Input voltage	: AC 120V/60Hz
Operation mode	: C, D, E, F
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: 101 kPa

Remark:

Note: The test plots of Co-located radiated spurious emissions beyond the limit are the fundamental radio frequency of Bluetooth and Wi-Fi.
For the measurement records, refer to the following plots, only the worst case mode are shown in this report.

For the measurement records, refer to the appendix C.

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5.1.3 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10-2020, ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-01-30 to 2026-02-06
Input voltage	: AC 120V/60Hz
Operation mode	: C, D, E, F
Earthing	: Not connected
Ambient temperature	: 23.4 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix C.

Note: For the measurement records, refer to the following plots, only the worst case mode are shown in this report.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

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Appendix B: Test Results of Radiated Testing (Bluetooth module)

APPENDIX B: TEST RESULTS OF RADIATED TESTING (BLUETOOTH MODULE)1
 APPENDIX B.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS,.....2
 Classical Bluetooth mode.....2
 Bluetooth Low Energy mode..... 16
 APPENDIX B.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS30
 Classical Bluetooth mode.....30
 Bluetooth Low Energy mode, 1 Mbps34
 Bluetooth Low Energy mode, 2 Mbps38

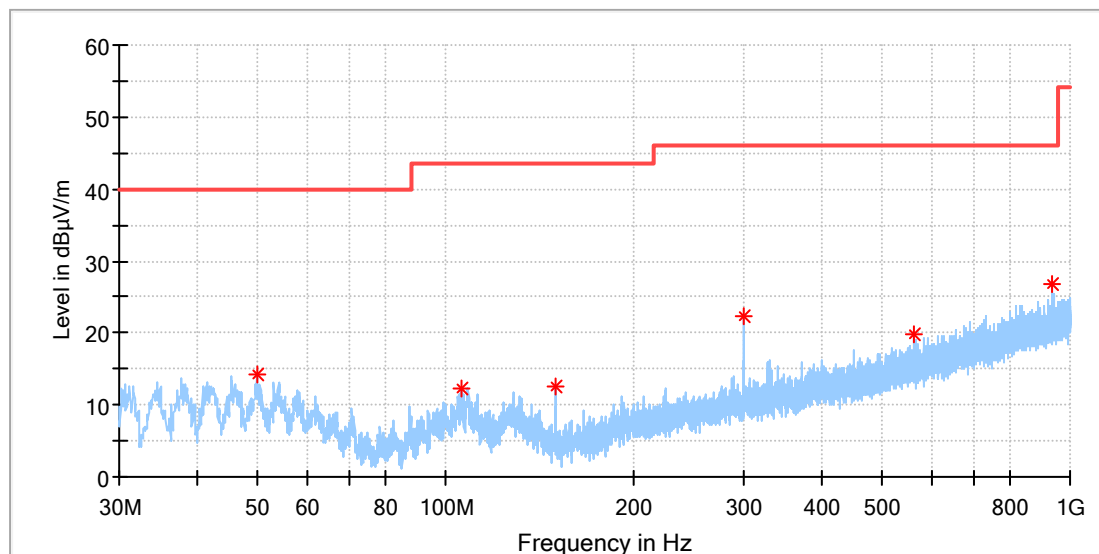
Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.1: Test Results of Radiated Spurious Emissions,

Classical Bluetooth mode
30MHz - 1GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

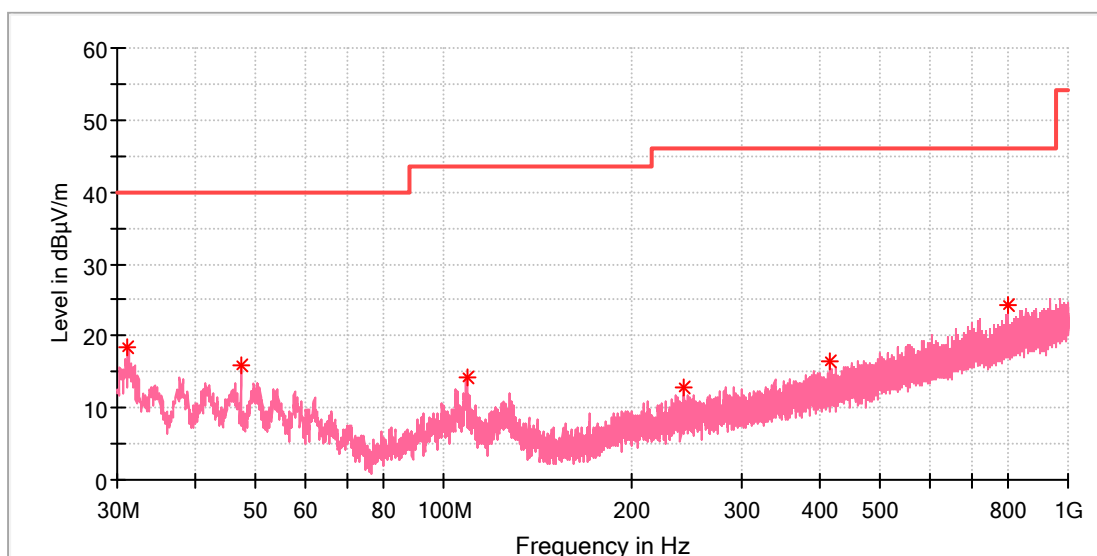
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.777222	14.12	40.00	25.88	100.0	H	75.0	-18.4
105.713889	12.40	43.50	31.10	100.0	H	237.0	-18.9
150.172222	12.59	43.50	30.91	100.0	H	229.0	-22.3
299.983333	22.32	46.00	23.68	100.0	H	0.0	-16.3
560.643889	19.91	46.00	26.09	100.0	H	27.0	-10.6
938.458889	26.72	46.00	19.28	100.0	H	316.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Bluetooth Module
Model: QCC5181
Test Mode: BR DH5_Mid channel
Order No/Sample No: A004198276-002
Test Voltage:: DC 12V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.239444	18.42	40.00	21.58	100.0	V	78.0	-22.8
47.298333	15.82	40.00	24.18	100.0	V	125.0	-18.6
108.839444	14.35	43.50	29.15	100.0	V	237.0	-19.1
242.483889	12.71	46.00	33.29	100.0	V	36.0	-17.6
414.766667	16.58	46.00	29.42	100.0	V	161.0	-13.4
798.778889	24.17	46.00	21.83	100.0	V	199.0	-6.2

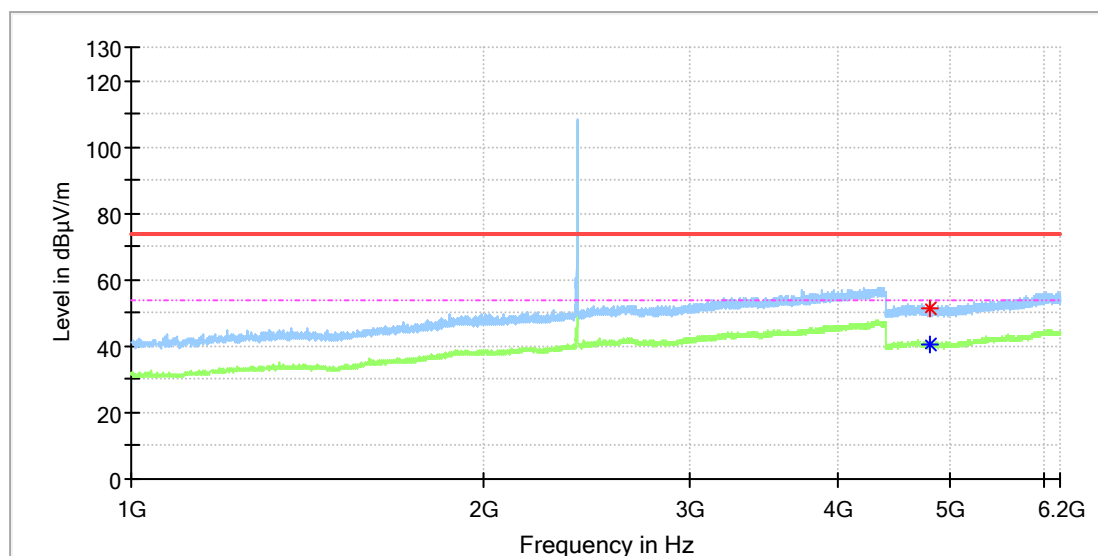
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 6.2GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

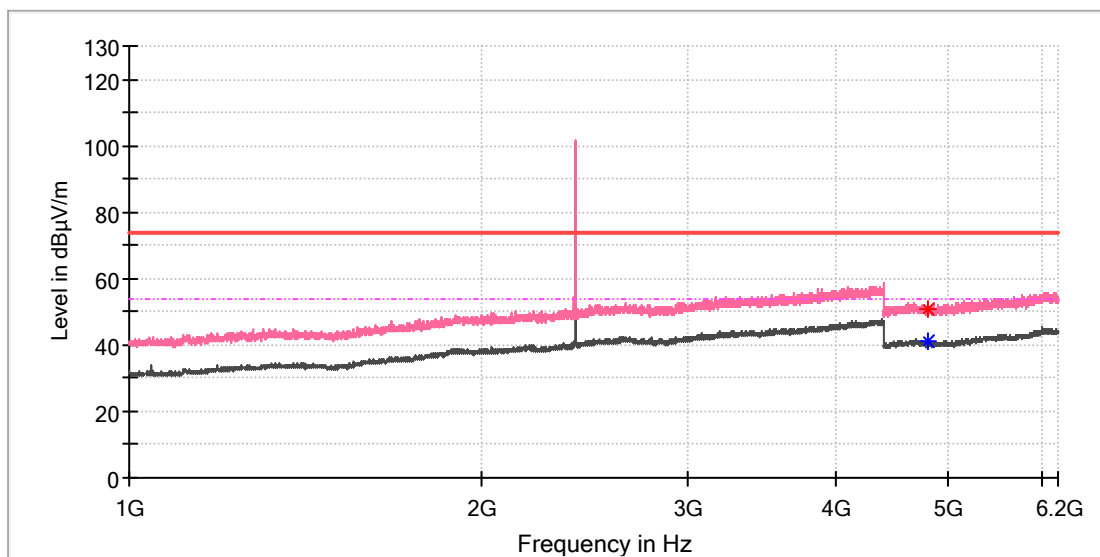
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	51.48	---	74.00	22.52	150.0	H	170.0	13.3
4804.000000	---	40.70	54.00	13.30	150.0	H	290.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

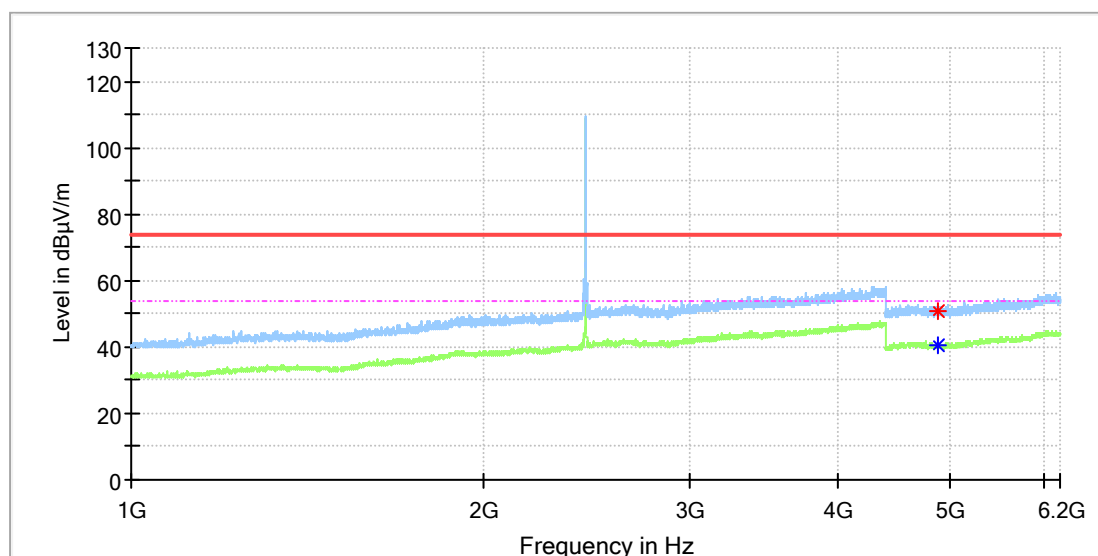
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	50.97	---	74.00	23.03	150.0	V	330.0	13.3
4804.000000	---	40.97	54.00	13.03	150.0	V	68.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm	93.750	93.750 deg	93.750 dB/m

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

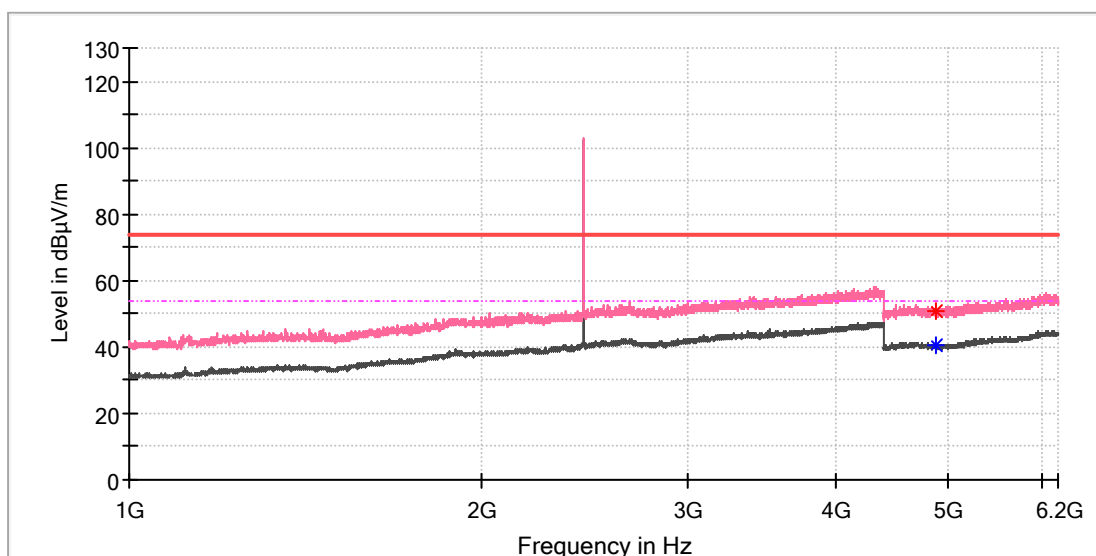
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	---	40.56	54.00	13.44	150.0	H	172.0	13.3
4883.000000	50.91	---	74.00	23.09	150.0	H	54.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
90.000 MHz	-68.00 dBμV/m	-70.00 dBμV/m	-75.00 dBμV/m	+6.00 dB	1.00 cm	V	0.00 deg	0.00 dB/m

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

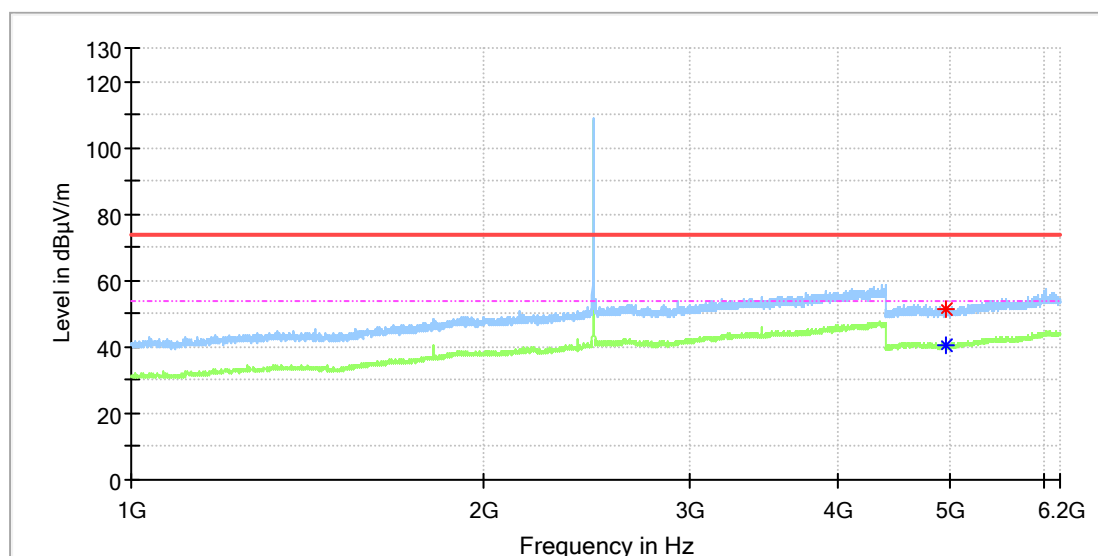
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	50.79	---	74.00	23.21	150.0	V	39.0	13.3
4882.000000	---	40.48	54.00	13.52	150.0	V	139.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

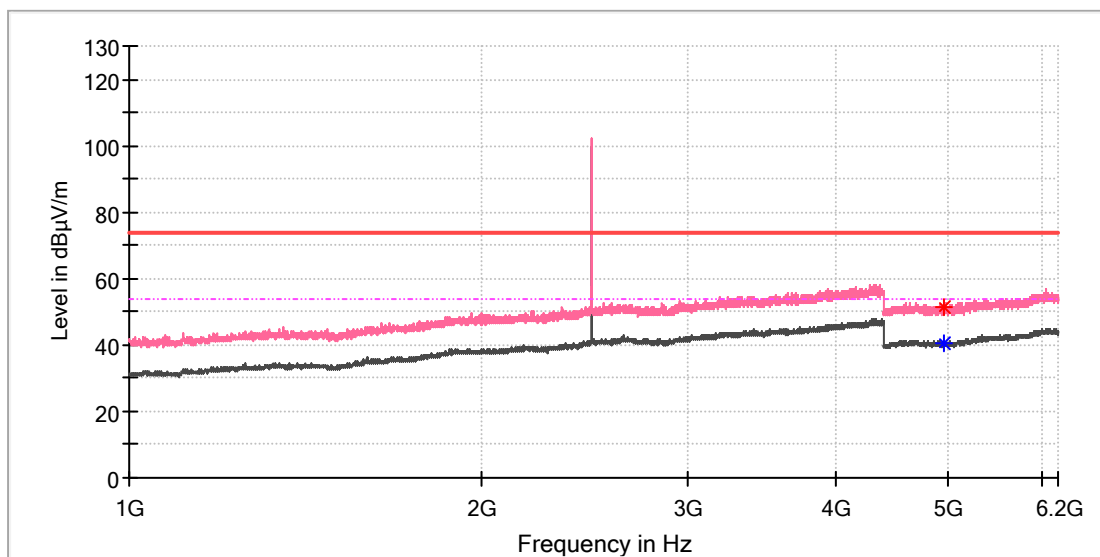
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	---	40.74	54.00	13.26	150.0	H	116.0	13.3
4961.000000	51.66	---	74.00	22.34	150.0	H	332.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.500000	51.10	---	74.00	22.90	150.0	V	353.0	13.3
4960.500000	---	40.71	54.00	13.29	150.0	V	353.0	13.3

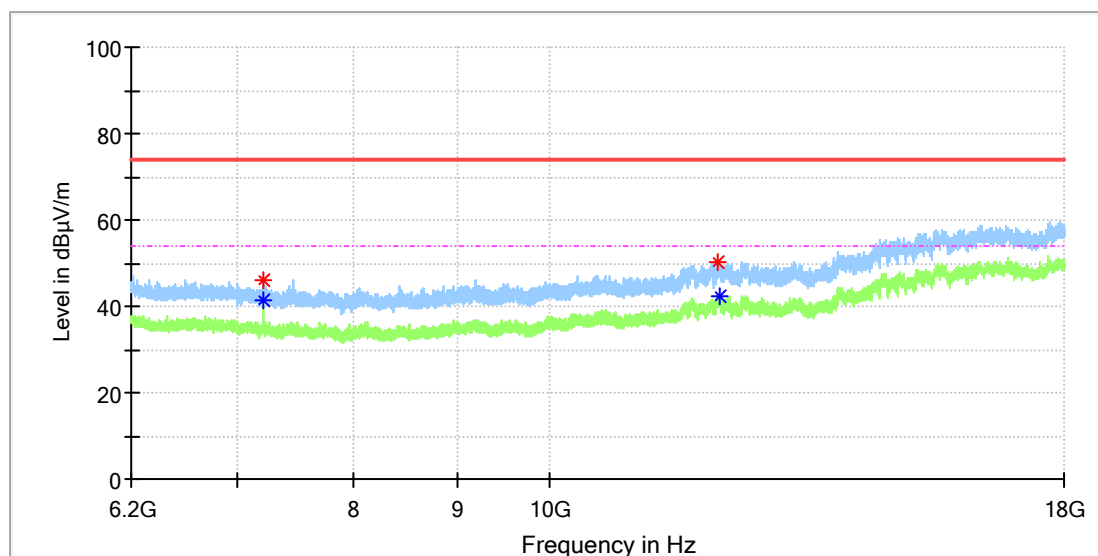
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm	93.750	93.750 deg	93.750 dB/m

6.2GHz - 18GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

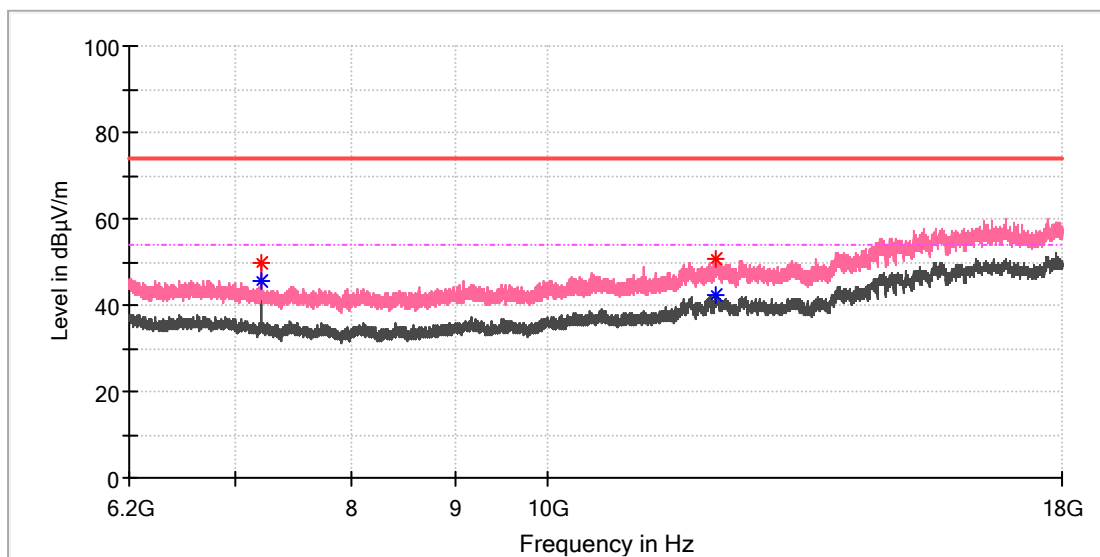
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	41.56	54.00	12.44	150.0	H	183.0	8.8
7206.441667	45.89	---	74.00	28.11	150.0	H	183.0	8.8
12106.391667	50.44	---	74.00	23.56	150.0	H	69.0	15.6
12152.608333	---	42.52	54.00	11.48	150.0	H	93.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

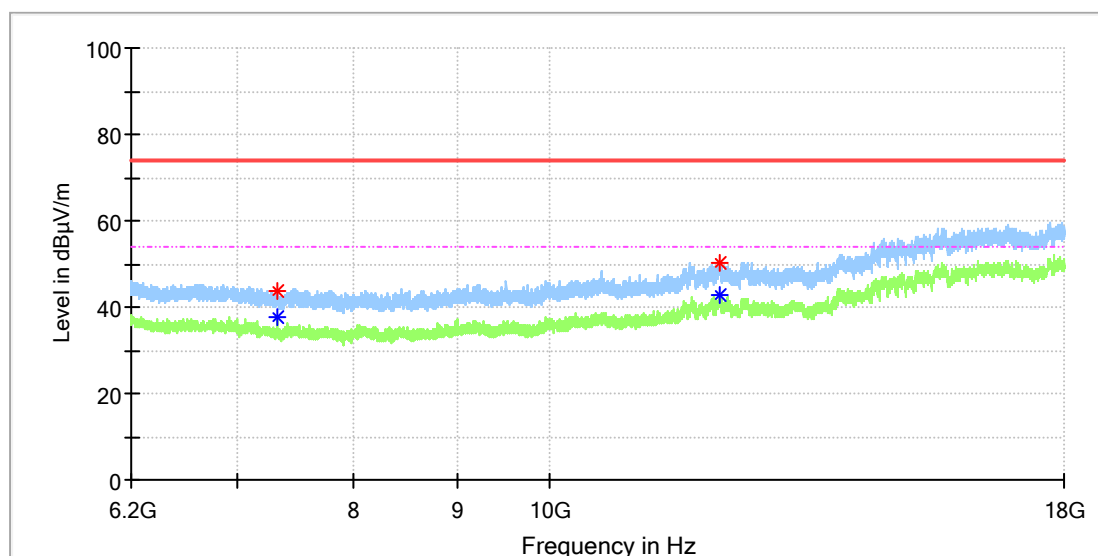
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	49.77	---	74.00	24.23	150.0	V	64.0	8.8
7206.441667	---	45.64	54.00	8.36	150.0	V	64.0	8.8
12114.750000	---	42.35	54.00	11.65	150.0	V	326.0	15.8
12122.616667	50.81	---	74.00	23.19	150.0	V	0.0	16.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	HH	135	0.0

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

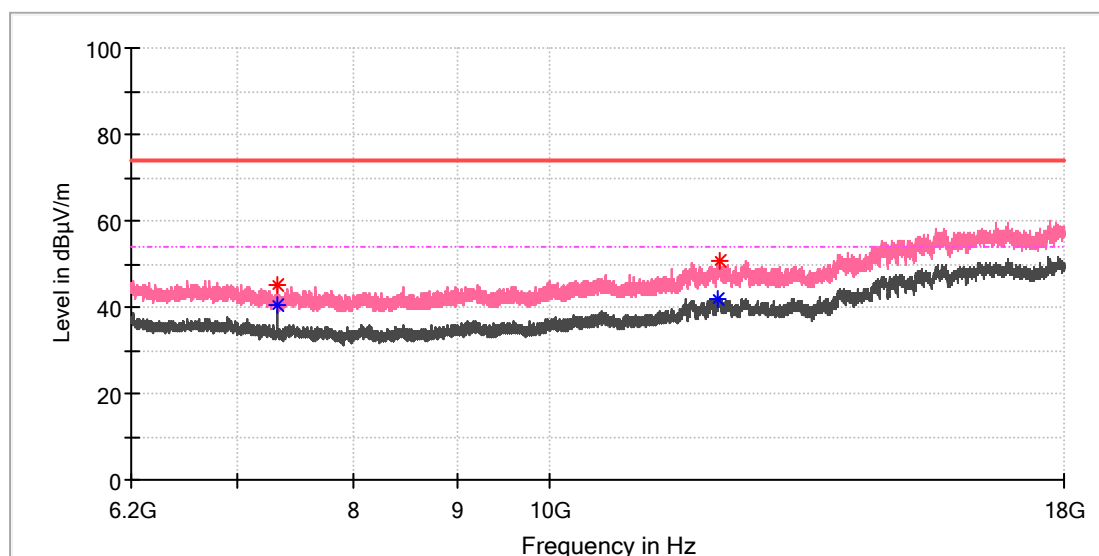
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7322.966667	43.61	---	74.00	30.39	150.0	H	246.0	8.2
7322.966667	---	37.69	54.00	16.31	150.0	H	246.0	8.2
12144.250000	---	42.70	54.00	11.30	150.0	H	187.0	16.6
12151.625000	50.24	---	74.00	23.76	150.0	H	106.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

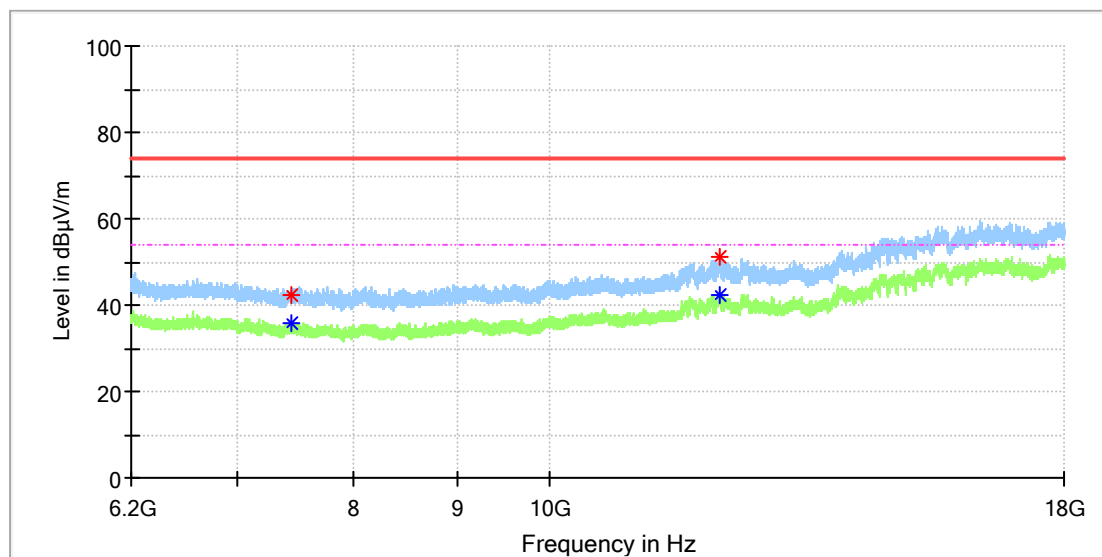
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7323.458333	45.33	---	74.00	28.67	150.0	V	51.0	8.2
7323.458333	---	40.48	54.00	13.52	150.0	V	51.0	8.2
12117.208333	---	42.07	54.00	11.93	150.0	V	188.0	15.9
12149.658333	50.78	---	74.00	23.22	150.0	V	234.0	16.7

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

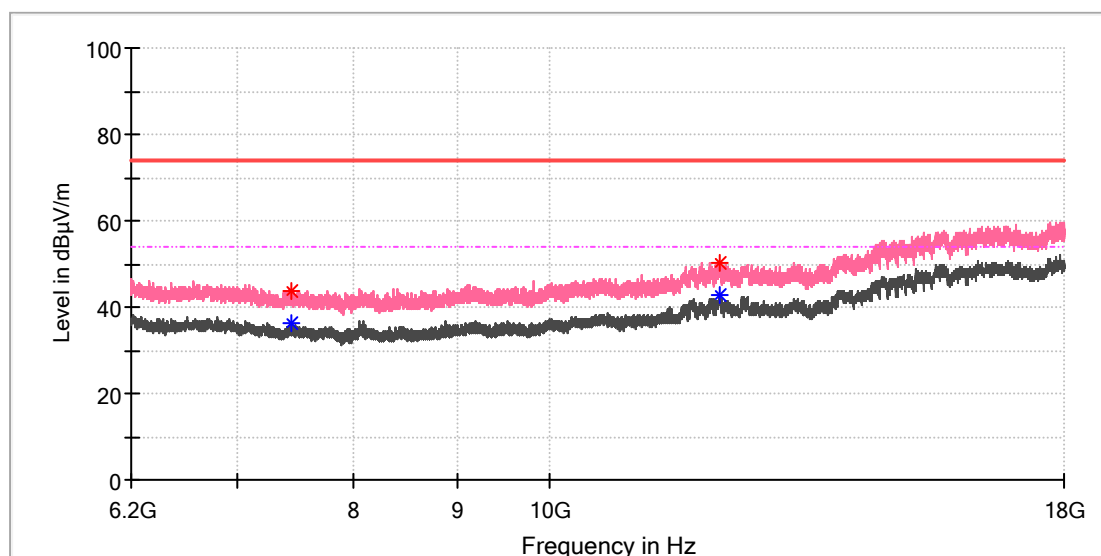
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	35.69	54.00	18.31	150.0	H	217.0	8.4
7440.966667	42.36	---	74.00	31.64	150.0	H	192.0	8.4
12146.216667	51.17	---	74.00	22.83	150.0	H	237.0	16.6
12147.200000	---	42.48	54.00	11.52	150.0	H	304.0	16.7

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7438.508333	43.64	---	74.00	30.36	150.0	V	149.0	8.4
7439.000000	---	36.41	54.00	17.59	150.0	V	67.0	8.4
12148.183333	---	43.01	54.00	10.99	150.0	V	84.0	16.7
12149.166667	50.25	---	74.00	23.75	150.0	V	224.0	16.7

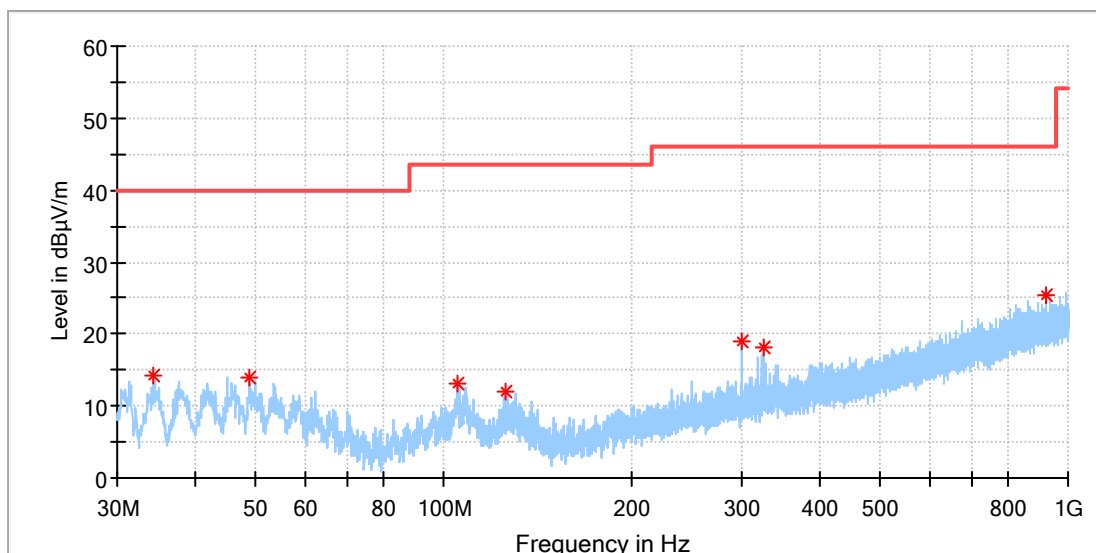
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Bluetooth Low Energy mode 30MHz - 1GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

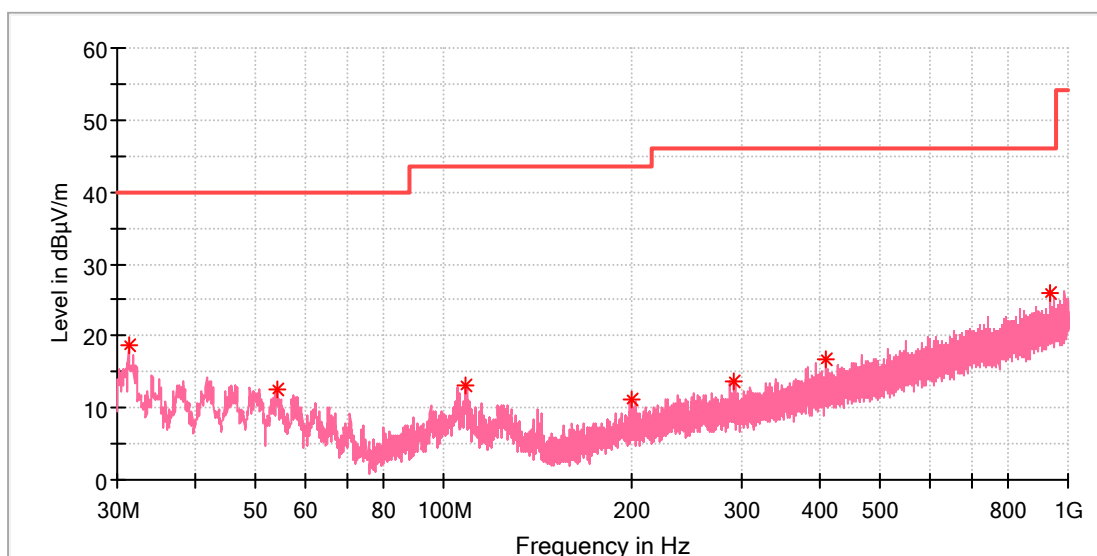
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.365000	14.21	40.00	25.79	100.0	H	6.0	-22.2
48.807222	14.04	40.00	25.96	100.0	H	39.0	-18.5
105.121111	12.99	43.50	30.51	100.0	H	126.0	-18.9
125.652778	12.06	43.50	31.44	100.0	H	14.0	-21.5
300.037222	19.06	46.00	26.94	100.0	H	306.0	-16.3
325.149444	18.06	46.00	27.94	100.0	H	0.0	-15.5
919.328333	25.38	46.00	20.62	100.0	H	286.0	-4.6

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Bluetooth Module
Model: QCC5181
Test Mode: BLE 1M_Mid channel
Order No/Sample No: A004198276-002
Test Voltage:: DC 12V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.347222	18.76	40.00	21.24	100.0	V	68.0	-22.8
54.088333	12.59	40.00	27.41	100.0	V	264.0	-18.5
108.785556	13.14	43.50	30.36	100.0	V	190.0	-19.1
199.803889	11.06	43.50	32.44	100.0	V	181.0	-19.1
292.492778	13.77	46.00	32.23	100.0	V	358.0	-16.5
408.300000	16.69	46.00	29.31	100.0	V	272.0	-13.5
938.458889	25.88	46.00	20.12	100.0	V	157.0	-4.4

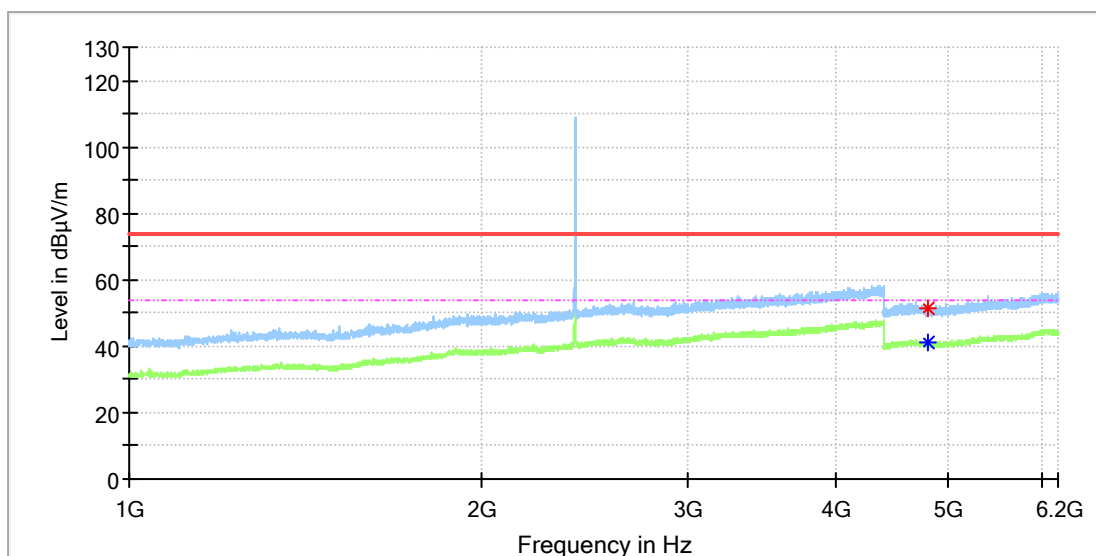
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 6.2GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

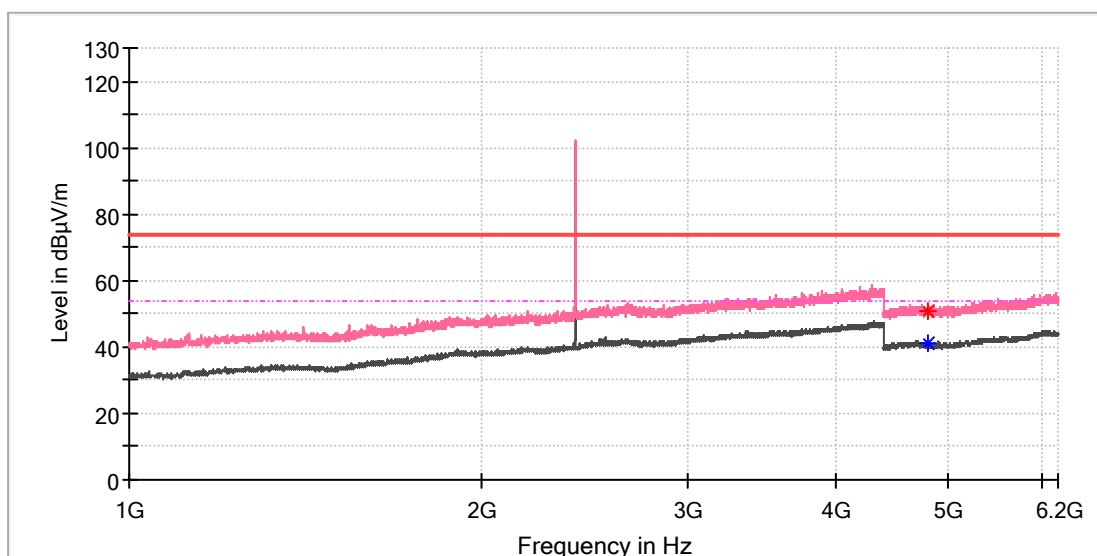
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	41.41	54.00	12.59	150.0	H	289.0	13.3
4805.000000	51.39	---	74.00	22.61	150.0	H	167.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

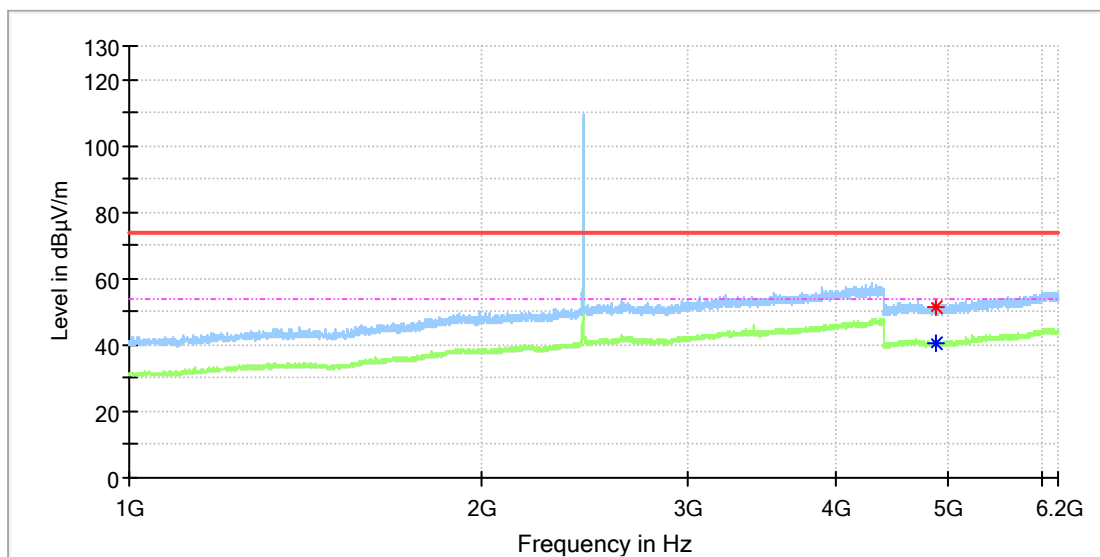
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	41.33	54.00	12.67	150.0	V	261.0	13.3
4804.500000	50.89	---	74.00	23.11	150.0	V	61.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr (dB/m)
93.75	118.5	118.5	118.5	0.0	100	0	0	0

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

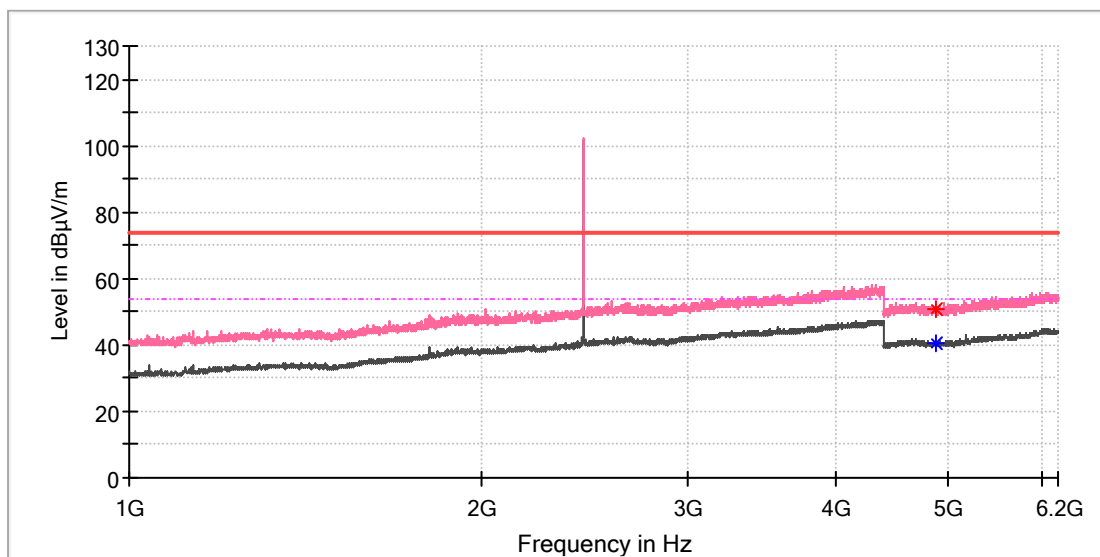
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.500000	---	40.47	54.00	13.53	150.0	H	184.0	13.3
4881.000000	51.17	---	74.00	22.83	150.0	H	193.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
900 MHz	80 dBm	70 dBm	60 dBm	50 dBm	40 dBm	30 dBm	20 dBm	10 dBm

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

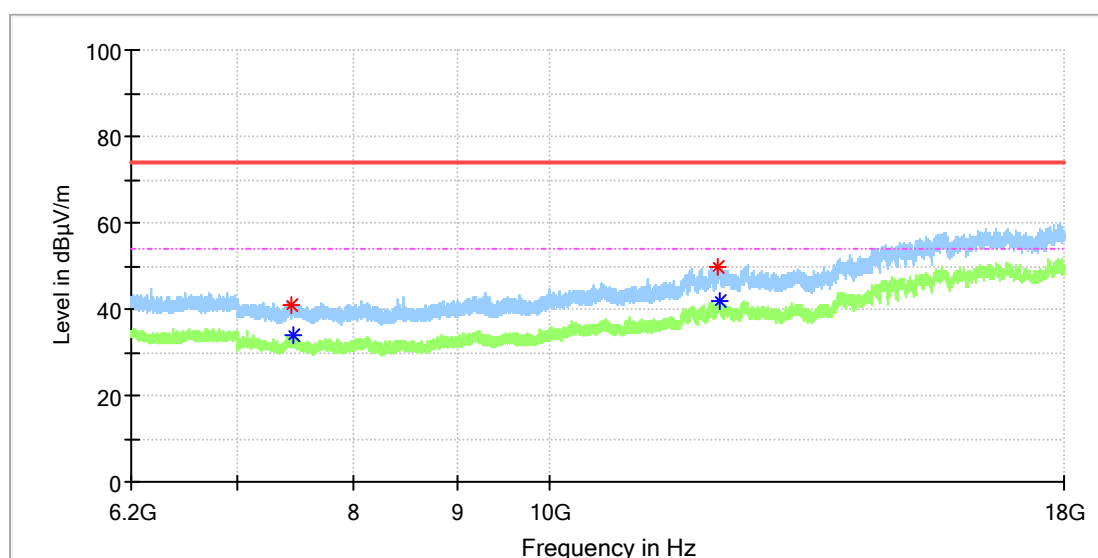
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	50.76	---	74.00	23.24	150.0	V	352.0	13.3
4881.000000	---	40.25	54.00	13.75	150.0	V	231.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.750 MHz	93.750 dBμV/m	93.750 dBμV/m	93.750 dBμV/m	93.750 dB	93.750 cm	93.750	93.750 deg	93.750 dB/m

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

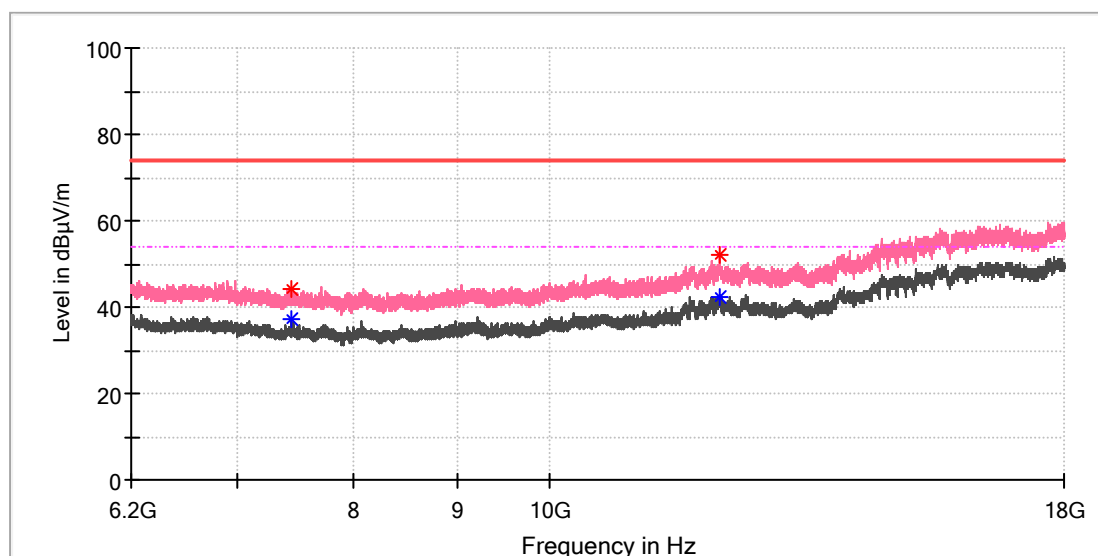
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7447.850000	40.90	---	74.00	33.10	150.0	H	0.0	8.5
7457.683333	---	33.82	54.00	20.18	150.0	H	254.0	8.5
12127.041667	49.69	---	74.00	24.31	150.0	H	204.0	16.1
12133.433333	---	41.81	54.00	12.19	150.0	H	229.0	16.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	37.32	54.00	16.68	150.0	V	118.0	8.4
7440.475000	44.00	---	74.00	30.00	150.0	V	65.0	8.4
12149.166667	52.09	---	74.00	21.91	150.0	V	0.0	16.7
12149.658333	---	42.42	54.00	11.58	150.0	V	352.0	16.7

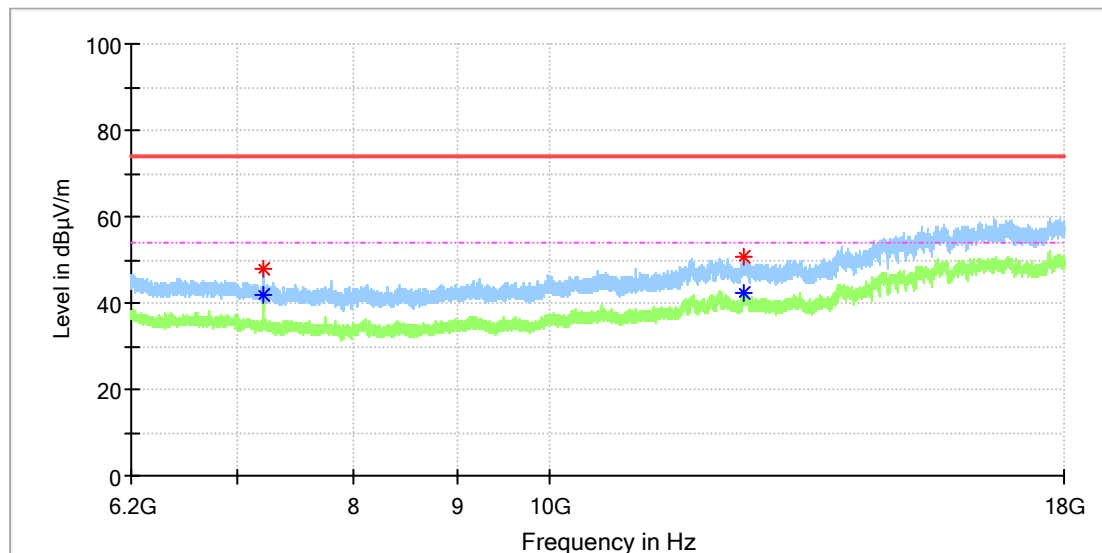
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

6.2GHz - 18GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

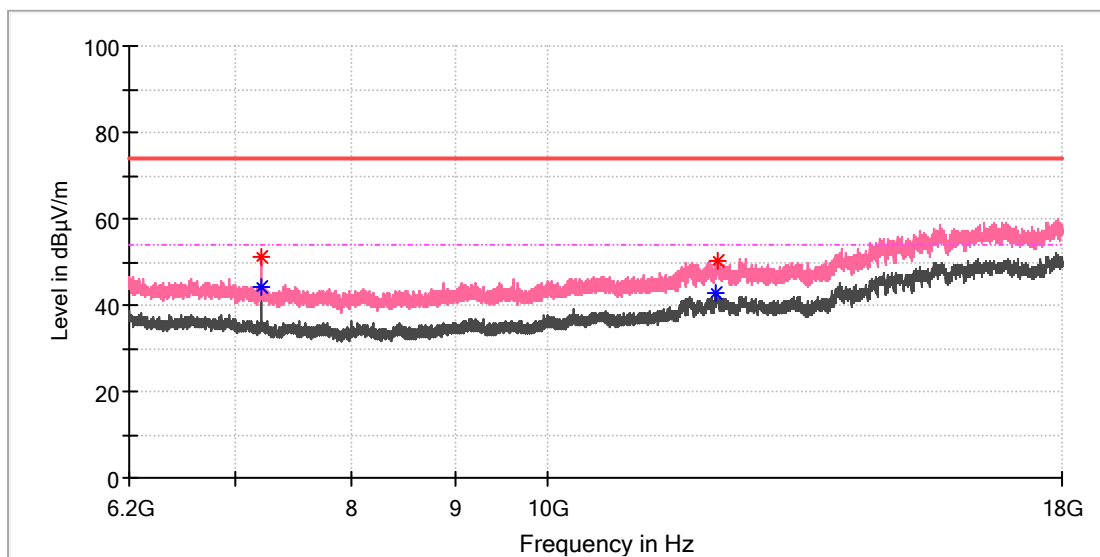
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.441667	---	41.99	54.00	12.01	150.0	H	187.0	8.8
7206.933333	47.88	---	74.00	26.12	150.0	H	187.0	8.8
12480.550000	---	42.17	54.00	11.83	150.0	H	313.0	16.1
12480.550000	50.91	---	74.00	23.09	150.0	H	313.0	16.1

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

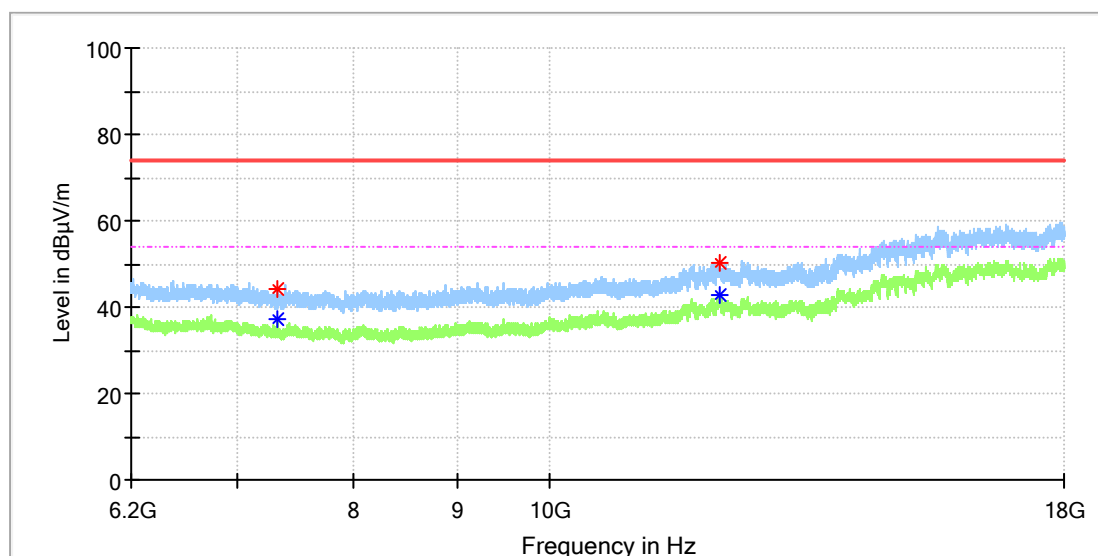
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.966667	50.96	---	74.00	23.04	150.0	V	61.0	8.8
7204.966667	---	44.42	54.00	9.58	150.0	V	61.0	8.8
12107.375000	---	42.83	54.00	11.17	150.0	V	345.0	15.6
12146.216667	50.36	---	74.00	23.64	150.0	V	165.0	16.6

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
90.000000	-68.70	-68.70	-68.70	31.30	100.00	V	0.00	0.00

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

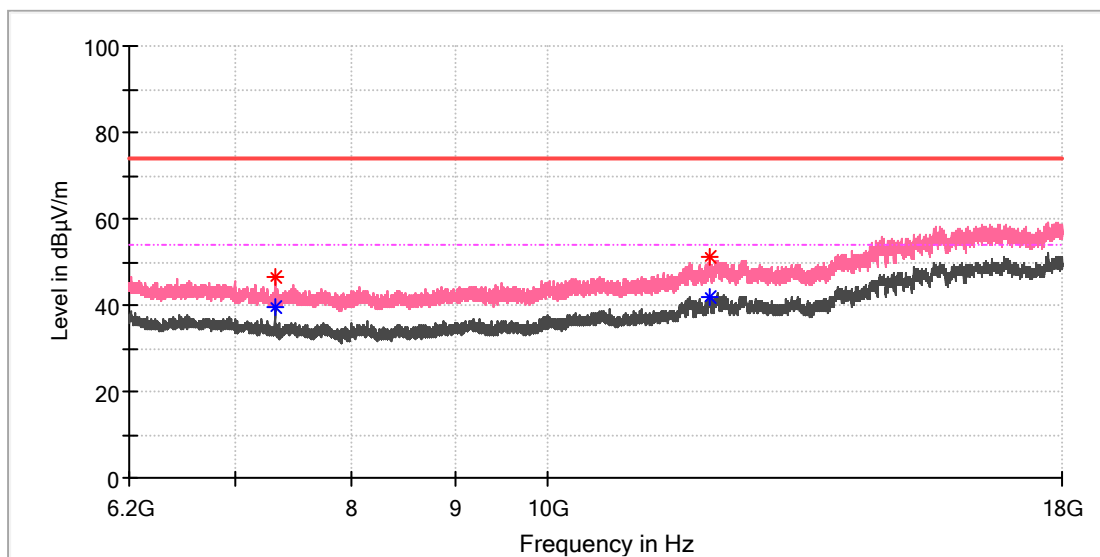
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7319.525000	44.06	---	74.00	29.94	150.0	H	154.0	8.2
7320.508333	---	37.24	54.00	16.76	150.0	H	162.0	8.2
12136.383333	---	42.68	54.00	11.32	150.0	H	93.0	16.4
12136.875000	50.39	---	74.00	23.61	150.0	H	68.0	16.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

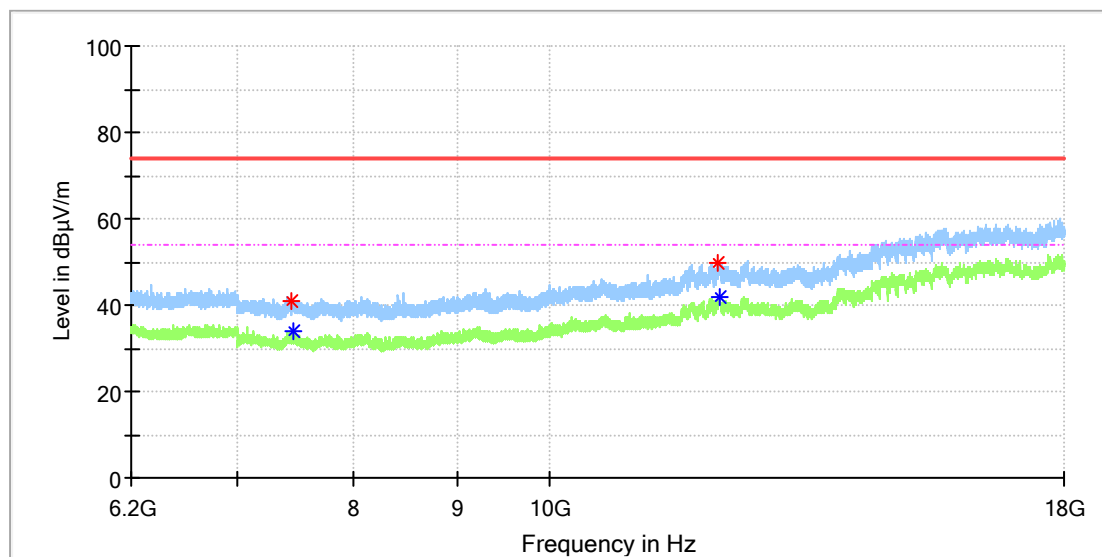
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	---	39.68	54.00	14.32	150.0	V	69.0	8.2
7320.508333	46.56	---	74.00	27.44	150.0	V	69.0	8.2
12025.758333	51.29	---	74.00	22.71	150.0	V	332.0	15.9
12042.475000	---	41.79	54.00	12.21	150.0	V	356.0	16.2

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
608-792 MHz	-114 dBm	-114 dBm	-114 dBm	20 dB	100 m	N/A	N/A	-114 dBm

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

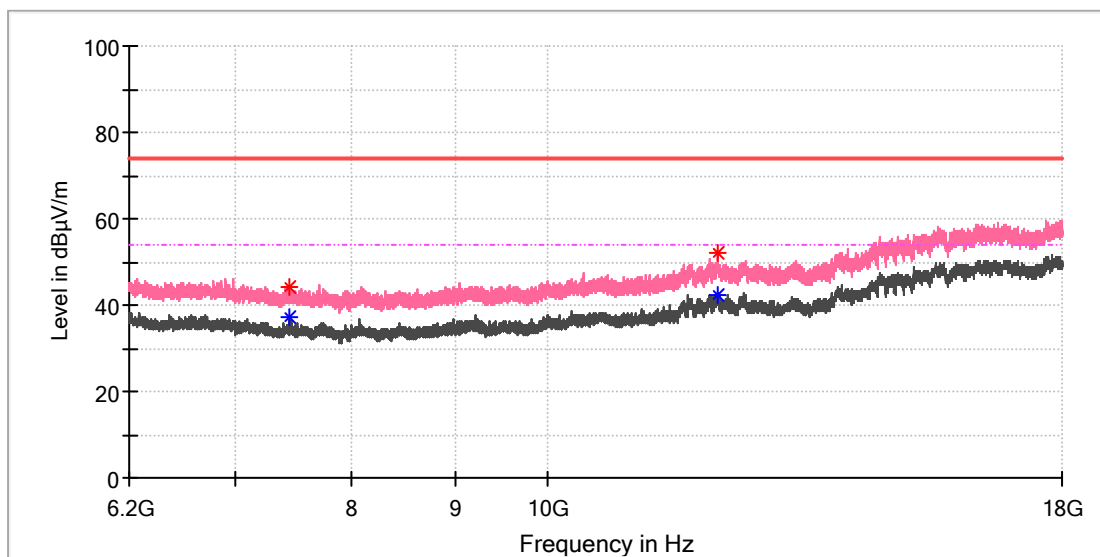
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7447.850000	40.90	---	74.00	33.10	150.0	H	0.0	8.5
7457.683333	---	33.82	54.00	20.18	150.0	H	254.0	8.5
12127.041667	49.69	---	74.00	24.31	150.0	H	204.0	16.1
12133.433333	---	41.81	54.00	12.19	150.0	H	229.0	16.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	37.32	54.00	16.68	150.0	V	118.0	8.4
7440.475000	44.00	---	74.00	30.00	150.0	V	65.0	8.4
12149.166667	52.09	---	74.00	21.91	150.0	V	0.0	16.7
12149.658333	---	42.42	54.00	11.58	150.0	V	352.0	16.7

Final_Result

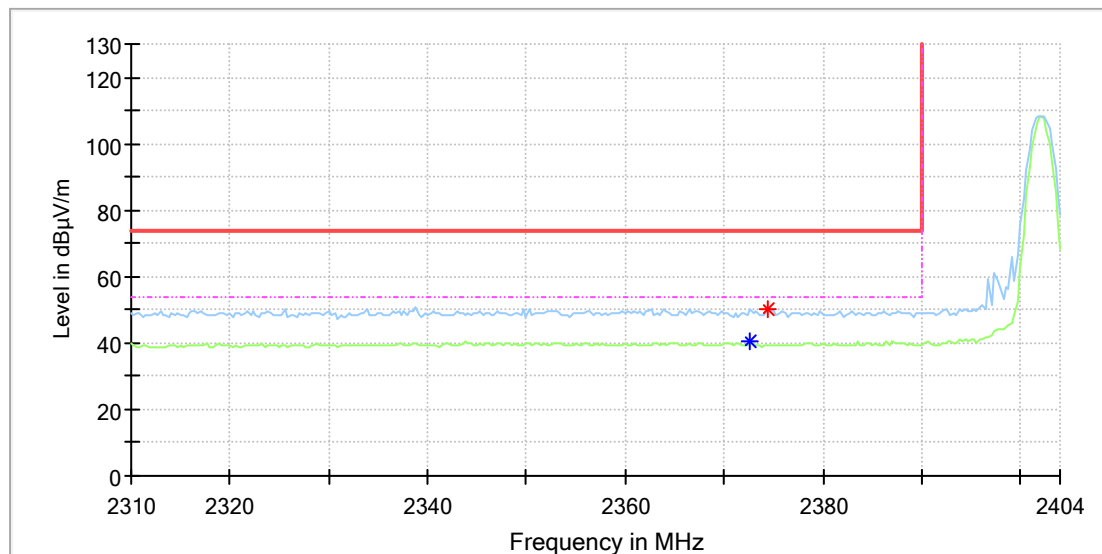
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Appendix B.2: Test Results of Radiated Emissions in Restricted Bands

Classical Bluetooth mode
Low channel

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

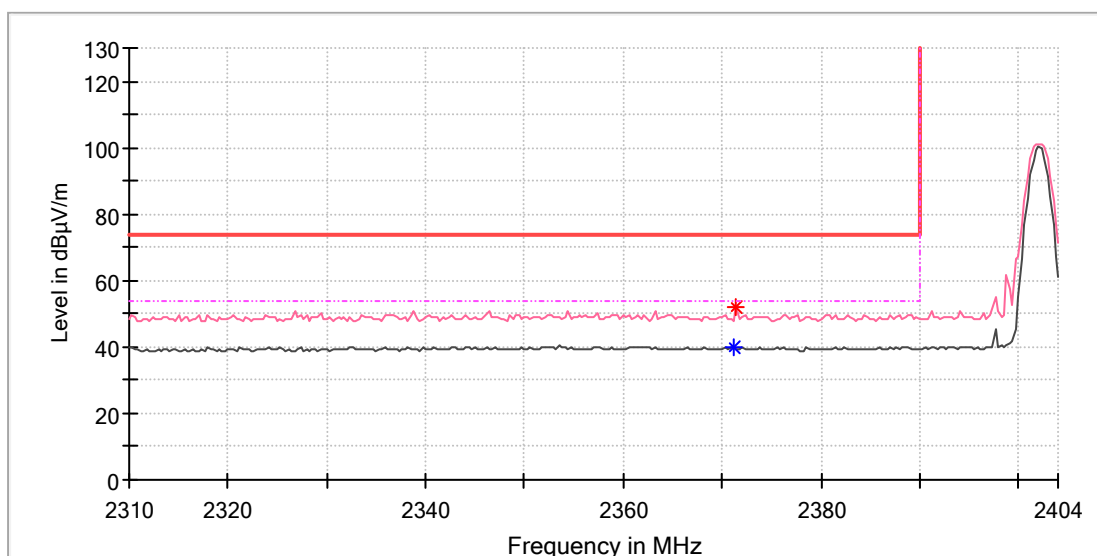
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2372.647059	---	40.77	54.00	13.23	150.0	H	248.0	8.5
2374.411765	50.26	---	74.00	23.74	150.0	H	165.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2371.176471	---	40.09	54.00	13.91	150.0	V	172.0	8.5
2371.470588	51.79	---	74.00	22.21	150.0	V	263.0	8.5

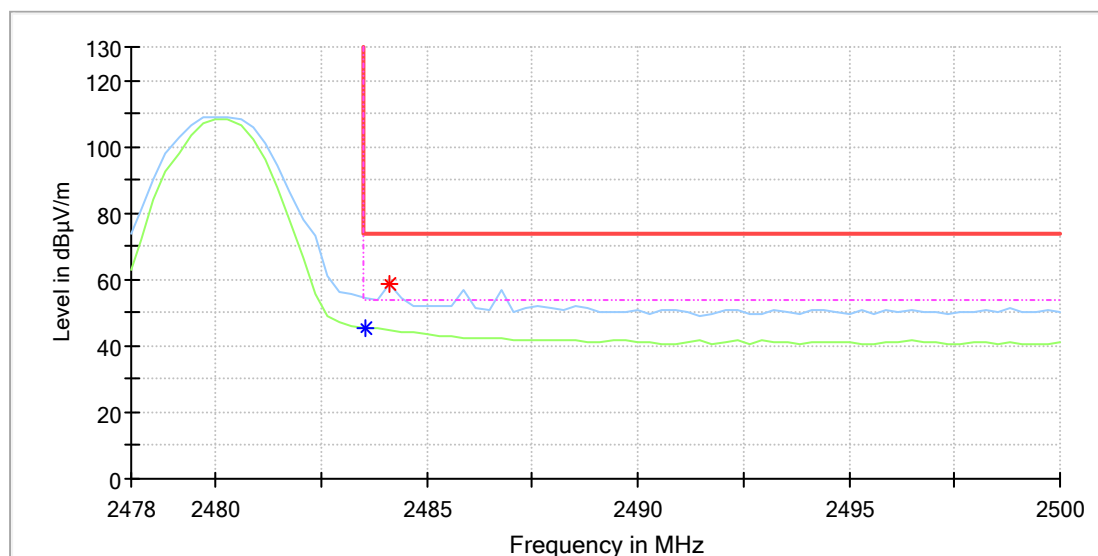
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	30.0	V	135	0.0

High channel

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

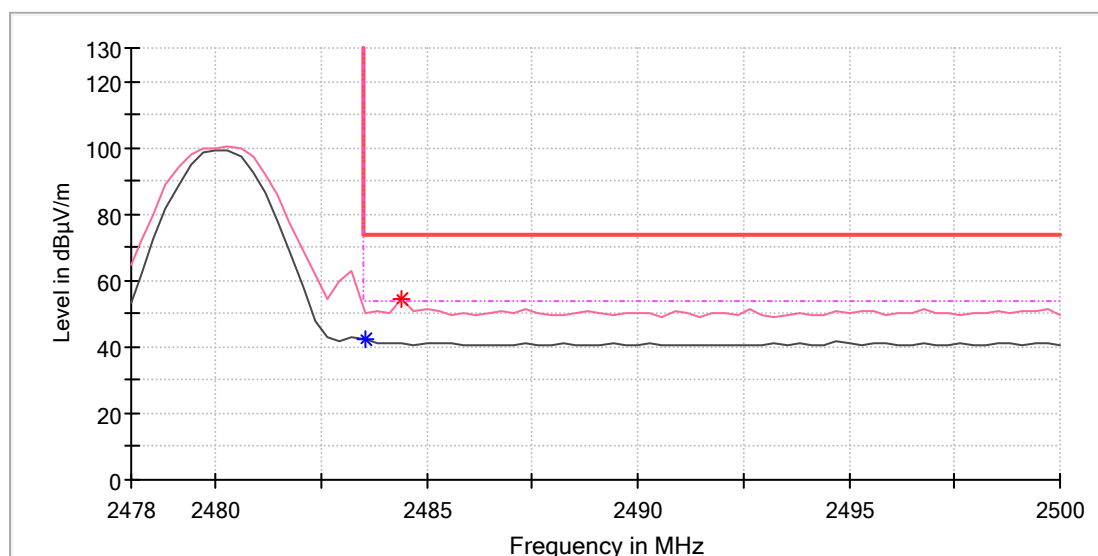
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	45.12	54.00	8.88	150.0	H	162.0	9.0
2484.117647	58.69	---	74.00	15.31	150.0	H	319.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	42.45	54.00	11.55	150.0	V	201.0	9.0
2484.411765	54.67	---	74.00	19.33	150.0	V	63.0	9.0

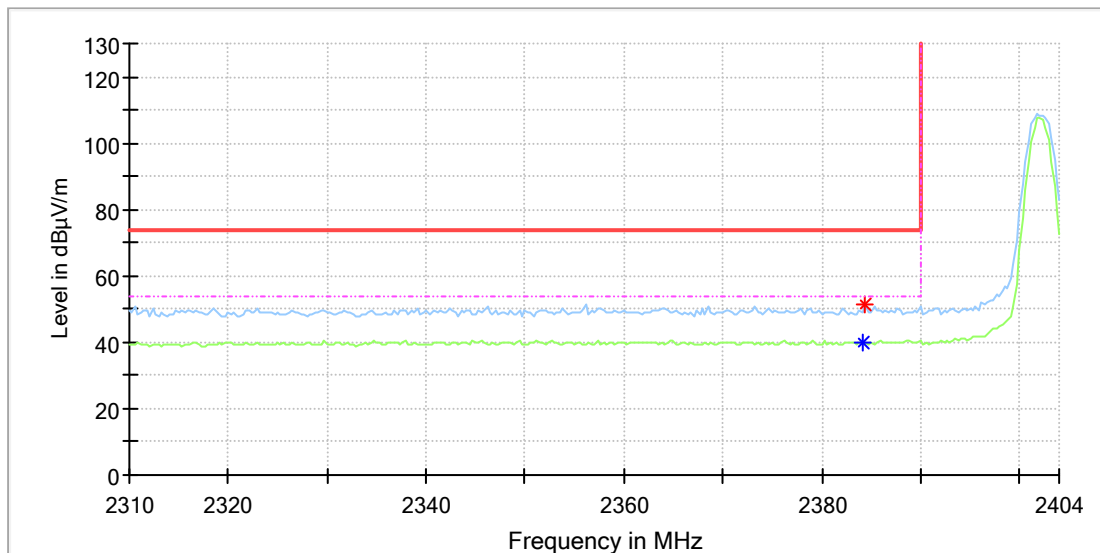
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	118.5	0	100	h	135	0

Bluetooth Low Energy mode, 1 Mbps Low channel

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

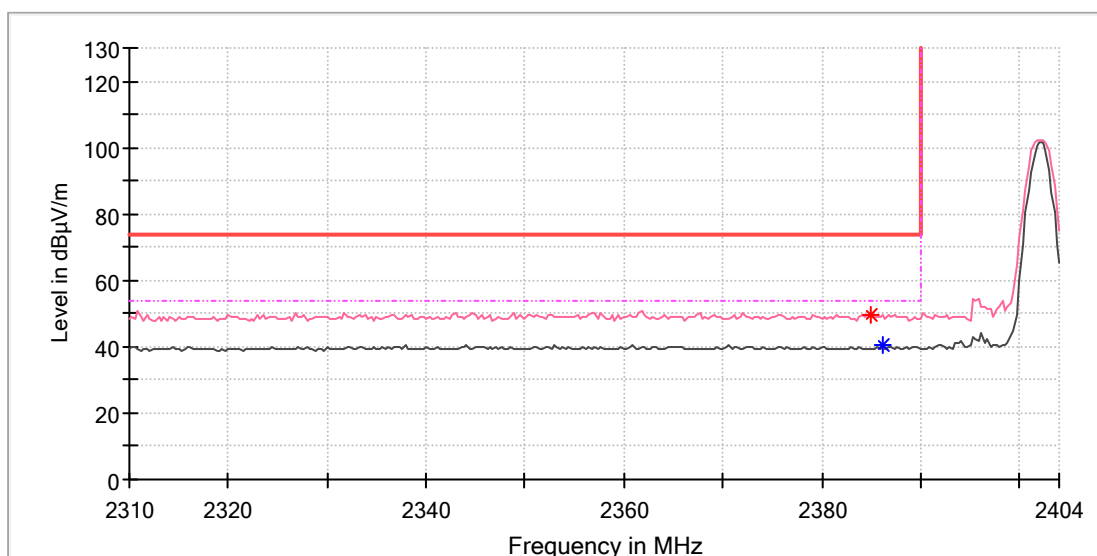
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.117647	---	39.94	54.00	14.06	150.0	H	138.0	8.5
2384.411765	51.19	---	74.00	22.81	150.0	H	128.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.000000	49.74	---	74.00	24.26	150.0	V	351.0	8.5
2386.176471	---	40.34	54.00	13.66	150.0	V	317.0	8.5

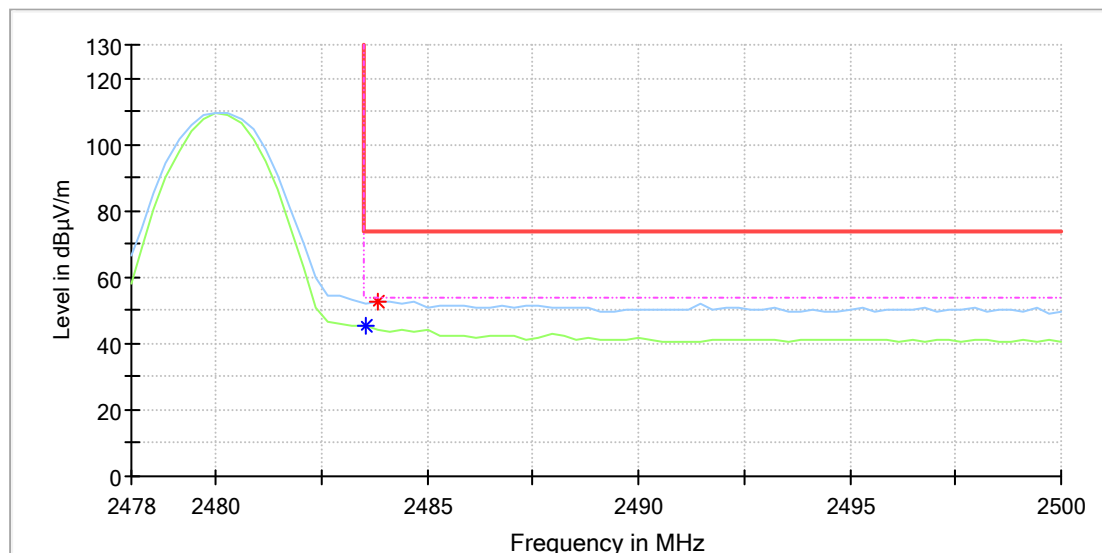
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0

High channel

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 2M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

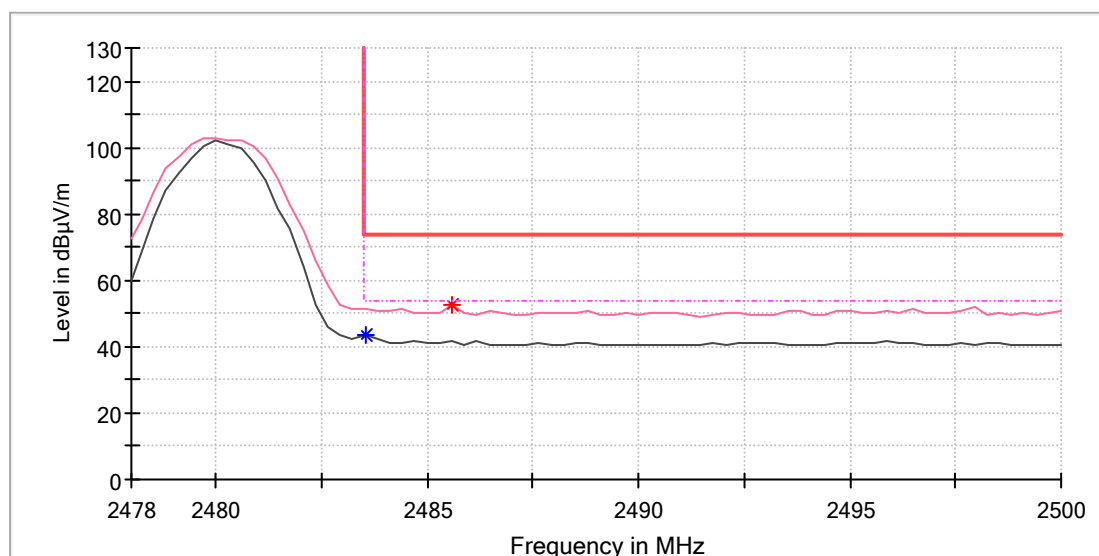
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	45.59	54.00	8.41	150.0	H	127.0	9.0
2483.823529	52.52	---	74.00	21.48	150.0	H	167.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	43.27	54.00	10.73	150.0	V	218.0	9.0
2485.588235	52.31	---	74.00	21.69	150.0	V	45.0	9.0

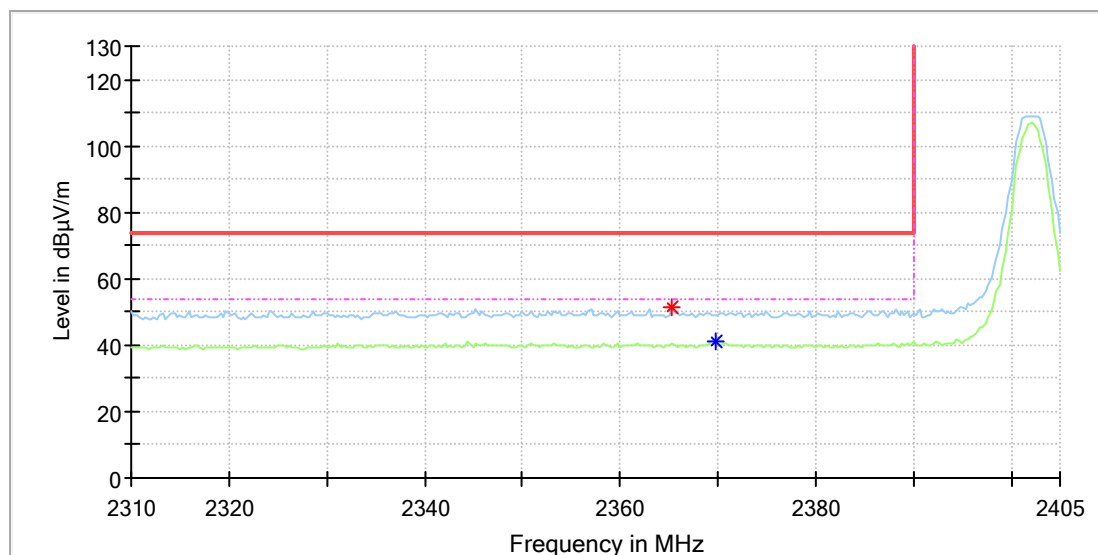
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Poi	Azimuth (deg)	Corr. (dB/m)
90.000000	-100.000000	-100.000000	-100.000000	-100.000000	100.000000		0.000000	0.000000

Bluetooth Low Energy mode, 2 Mbps Low channel

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

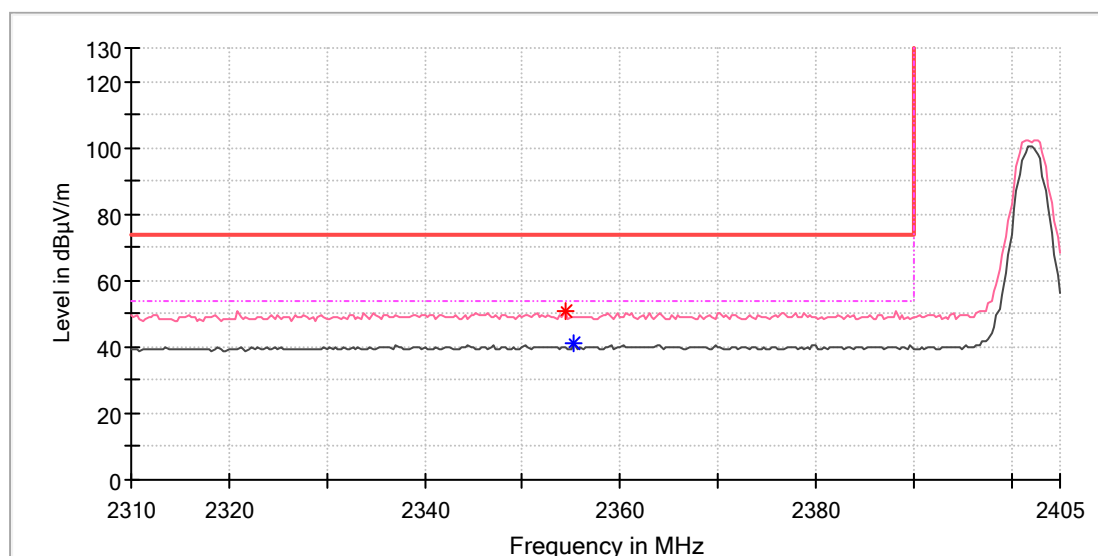
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2365.294118	51.20	---	74.00	22.80	150.0	H	318.0	8.5
2369.705882	---	41.17	54.00	12.83	150.0	H	263.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2354.411765	50.70	---	74.00	23.30	150.0	V	242.0	8.5
2355.294118	---	40.88	54.00	13.12	150.0	V	343.0	8.5

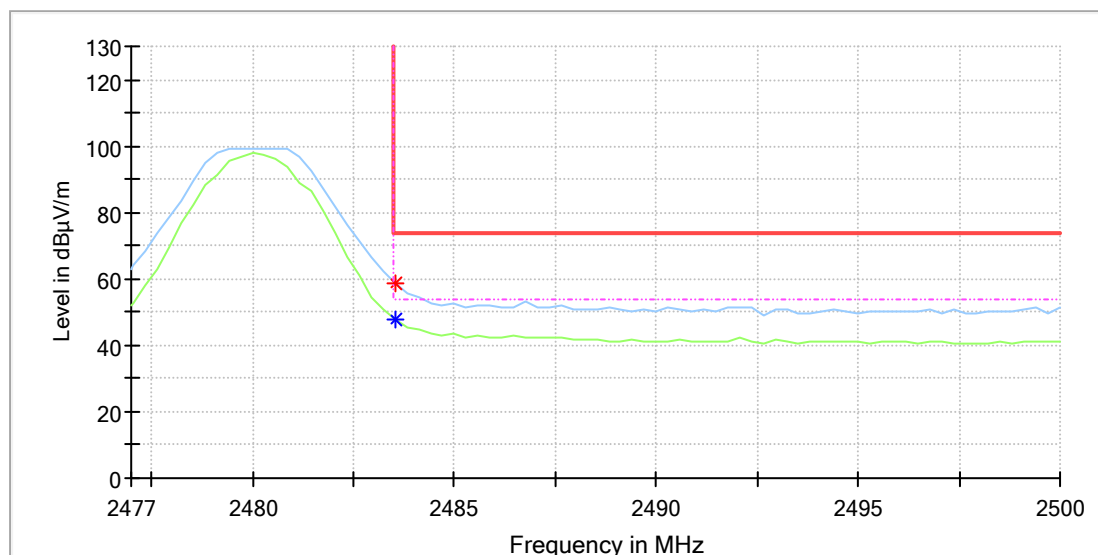
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr (dB/m)
93.7	122.5	122.5	122.5	0	100	V	135	0

High channel

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 2M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

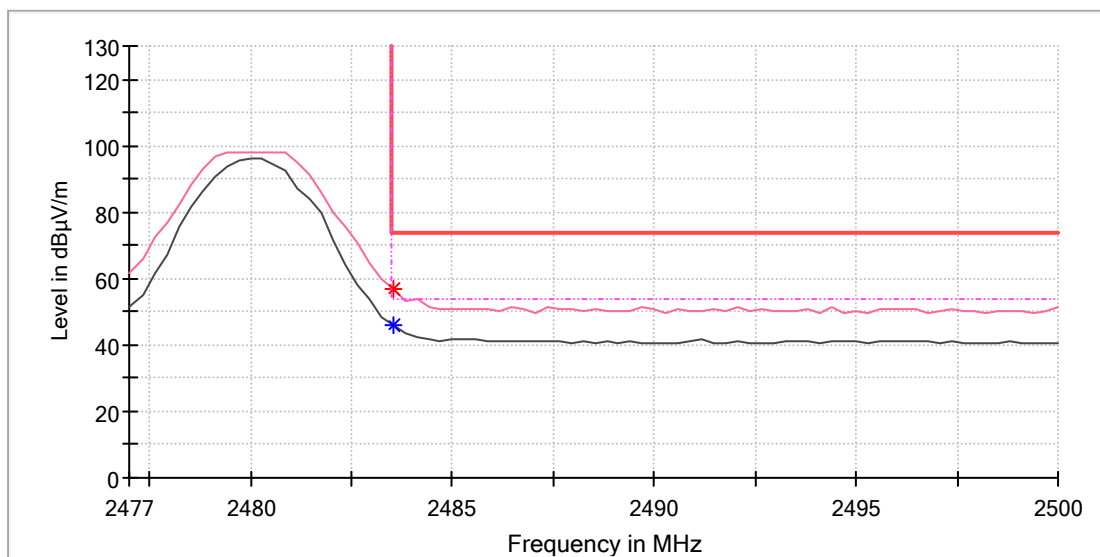
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	47.96	54.00	6.04	150.0	H	153.0	9.0
2483.529412	58.47	---	74.00	15.53	150.0	H	153.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	----

EUT Information

EUT Name:	Bluetooth Module
Model:	QCC5181
Test Mode:	BLE 2M_High channel
Order No/Sample No:	A004198276-002
Test Voltage::	DC 12V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	46.10	54.00	7.90	150.0	V	231.0	9.0
2483.529412	56.98	---	74.00	17.02	150.0	V	231.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix C: Test Results of with host

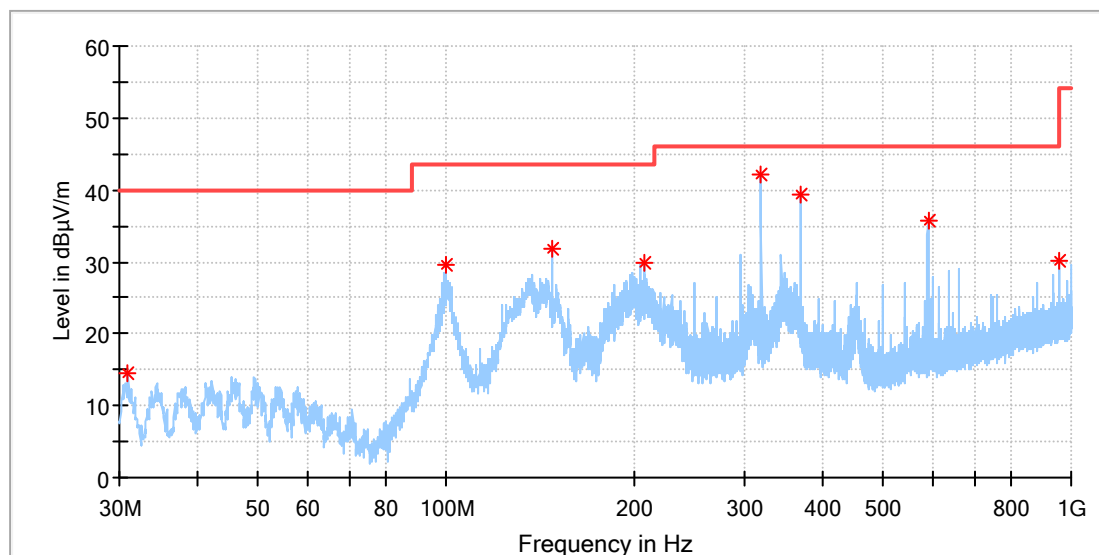
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APPENDIX C.1: TEST RESULTS OF CO-LOCATED TRANSMITTING IN HOST AVA15.....	2
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Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix C.1: Test Results of co-located transmitting in host AVA15

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA15
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004185545-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

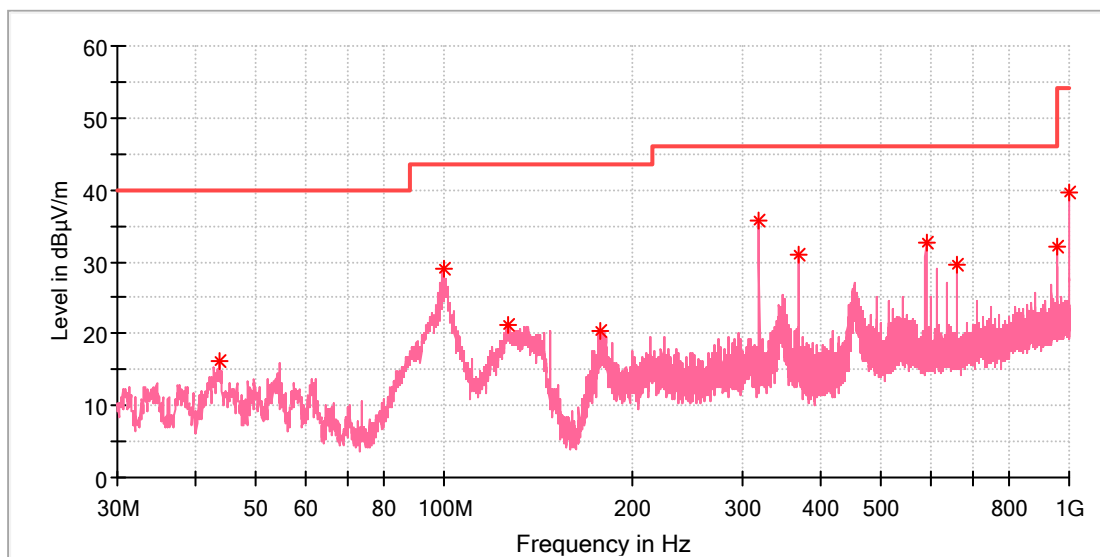
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.970000	14.38	40.00	25.62	100.0	H	0.0	-22.9
99.678333	29.62	43.50	13.88	100.0	H	173.0	-19.2
147.477778	31.70	43.50	11.80	100.0	H	186.0	-22.3
206.917222	29.94	43.50	13.56	100.0	H	180.0	-18.9
319.491111	42.23	46.00	3.77	100.0	H	260.0	-15.7
368.637778	39.37	46.00	6.63	100.0	H	280.0	-14.5
589.905556	35.64	46.00	10.36	100.0	H	287.0	-9.9
960.014444	30.23	54.00	23.77	100.0	H	73.0	-4.1

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Audio Video Amplifier
Model: AVA15
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No: A004185545-002
Test Voltage:: AC 120V/60Hz
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

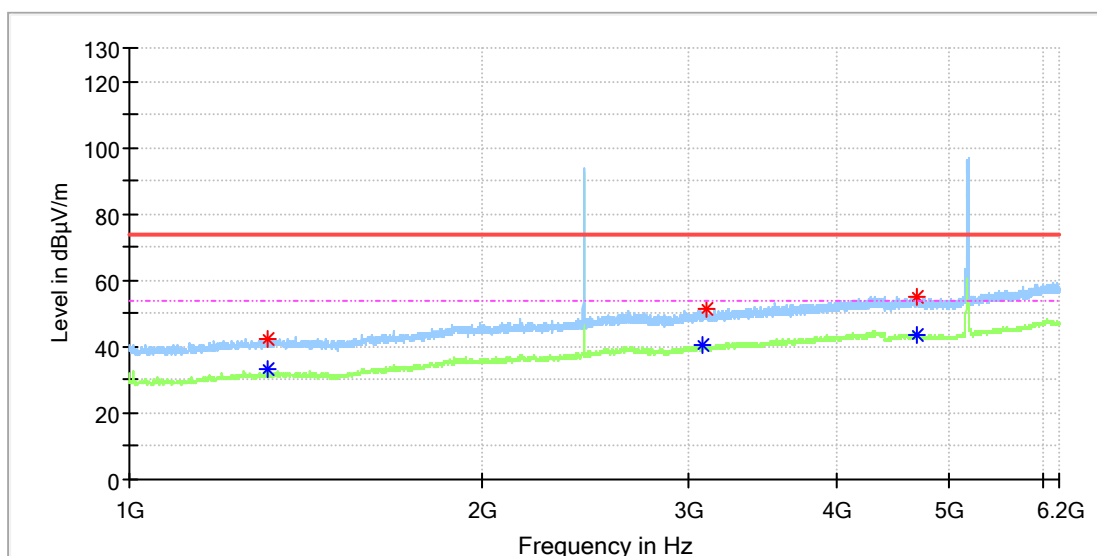
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.687778	16.32	40.00	23.68	100.0	V	307.0	-19.2
99.570556	28.99	43.50	14.51	100.0	V	110.0	-19.2
126.299444	21.28	43.50	22.22	100.0	V	355.0	-21.6
178.086667	20.29	43.50	23.21	100.0	V	355.0	-20.8
319.491111	35.69	46.00	10.31	100.0	V	270.0	-15.7
368.691667	31.10	46.00	14.90	100.0	V	160.0	-14.5
589.905556	32.53	46.00	13.47	100.0	V	110.0	-9.9
663.625556	29.46	46.00	16.54	100.0	V	359.0	-8.6
960.014444	32.04	54.00	21.96	100.0	V	181.0	-4.1
1000.000000	39.54	54.00	14.46	100.0	V	160.0	-3.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA15
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004185545-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

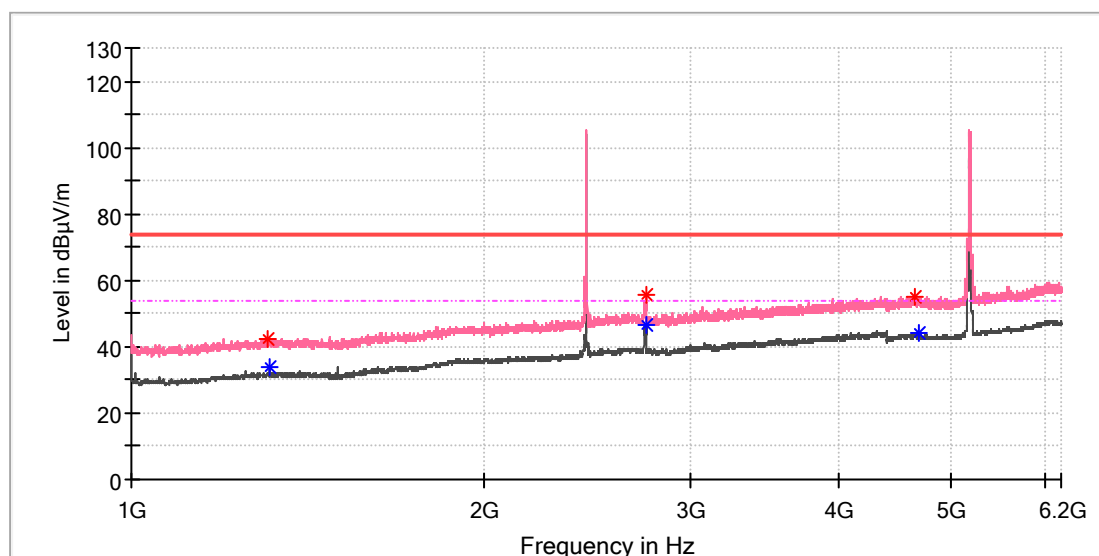
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1312.500000	---	33.54	54.00	20.46	150.0	H	188.0	2.8
1313.500000	42.54	---	74.00	31.46	150.0	H	133.0	2.8
3078.500000	---	40.39	54.00	13.61	150.0	H	100.0	10.5
3099.500000	51.27	---	74.00	22.73	150.0	H	352.0	10.6
4690.500000	---	43.50	54.00	10.50	150.0	H	12.0	13.5
4693.000000	55.28	---	74.00	18.72	150.0	H	120.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA15
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004185545-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

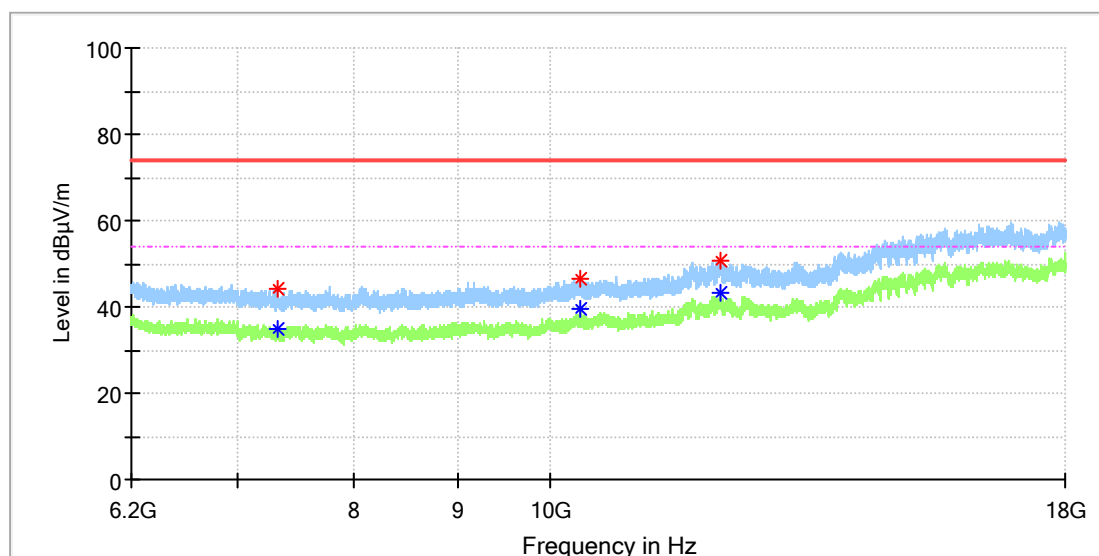
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1307.000000	42.21	---	74.00	31.79	150.0	V	171.0	2.8
1312.500000	---	34.10	54.00	19.90	150.0	V	87.0	2.8
2742.500000	55.45	---	74.00	18.55	150.0	V	151.0	9.9
2747.500000	---	46.58	54.00	7.42	150.0	V	171.0	9.9
4648.000000	54.78	---	74.00	19.22	150.0	V	2.0	13.5
4685.500000	---	44.07	54.00	9.93	150.0	V	0.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA15
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004185545-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

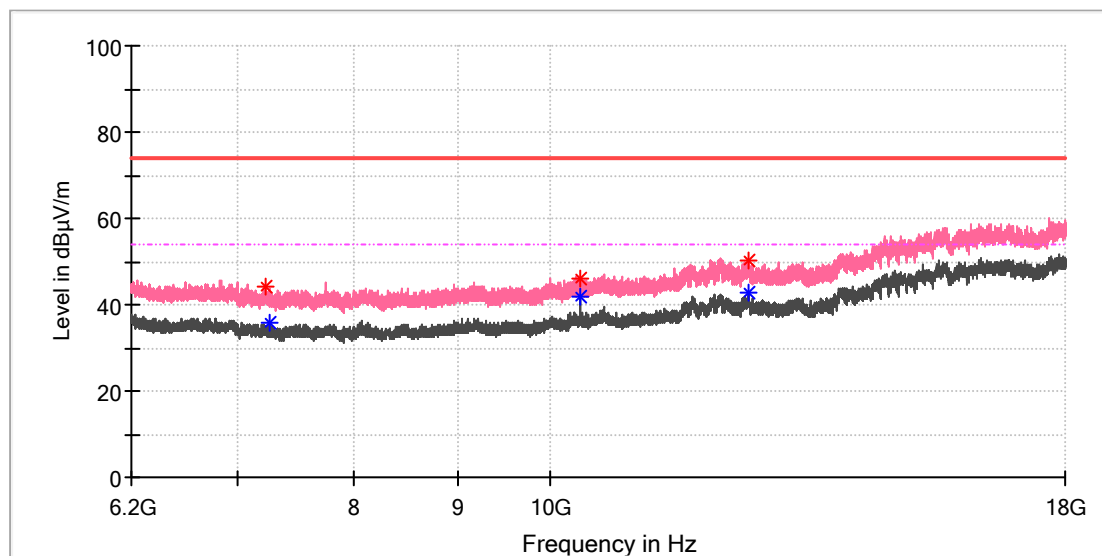
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.508333	---	34.96	54.00	19.04	150.0	H	355.0	8.2
7328.375000	44.04	---	74.00	29.96	150.0	H	355.0	8.1
10360.483333	46.41	---	74.00	27.59	150.0	H	141.0	11.8
10360.483333	---	39.52	54.00	14.48	150.0	H	141.0	11.8
12131.958333	---	43.17	54.00	10.83	150.0	H	239.0	16.3
12144.741667	50.58	---	74.00	23.42	150.0	H	333.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA15
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004185545-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7230.041667	44.38	---	74.00	29.62	150.0	V	257.0	8.6
7263.475000	---	35.78	54.00	18.22	150.0	V	40.0	8.5
10359.991667	46.00	---	74.00	28.00	150.0	V	342.0	11.8
10359.991667	---	41.89	54.00	12.11	150.0	V	342.0	11.8
12534.633333	---	42.65	54.00	11.35	150.0	V	30.0	16.4
12545.941667	50.05	---	74.00	23.95	150.0	V	234.0	16.5

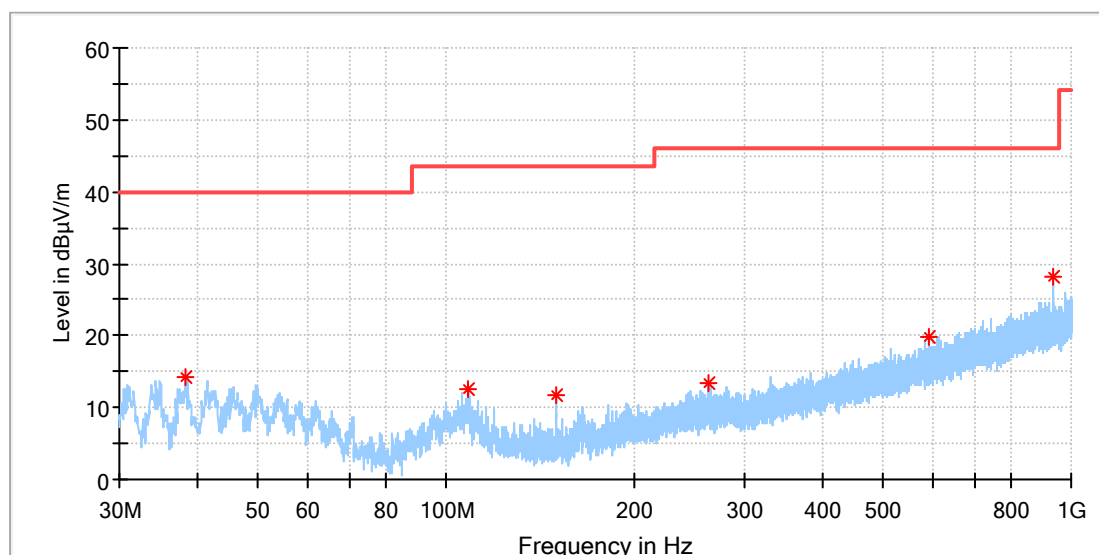
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix C.2: Test Results of co-located transmitting in host AVA25

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA25
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

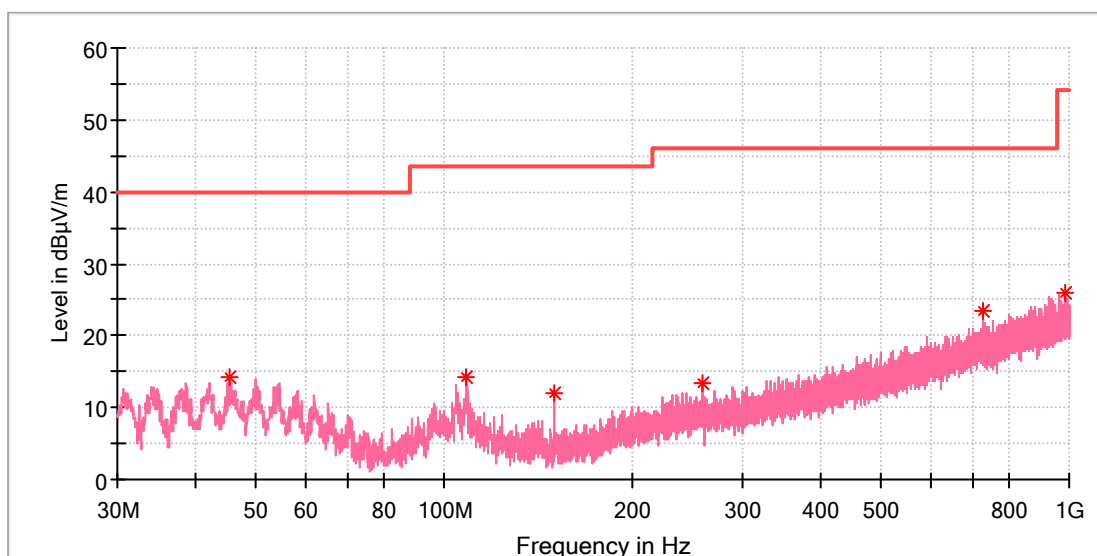
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.352778	14.35	40.00	25.65	100.0	H	93.0	-20.7
108.785556	12.59	43.50	30.91	100.0	H	207.0	-19.1
150.010556	11.81	43.50	31.69	100.0	H	264.0	-22.3
261.937778	13.31	46.00	32.69	100.0	H	102.0	-17.1
590.067222	19.92	46.00	26.08	100.0	H	334.0	-9.9
938.458889	28.05	46.00	17.95	100.0	H	326.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Audio Video Amplifier
Model: AVA25
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No: A004187921-002
Test Voltage:: AC 120V/60Hz
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

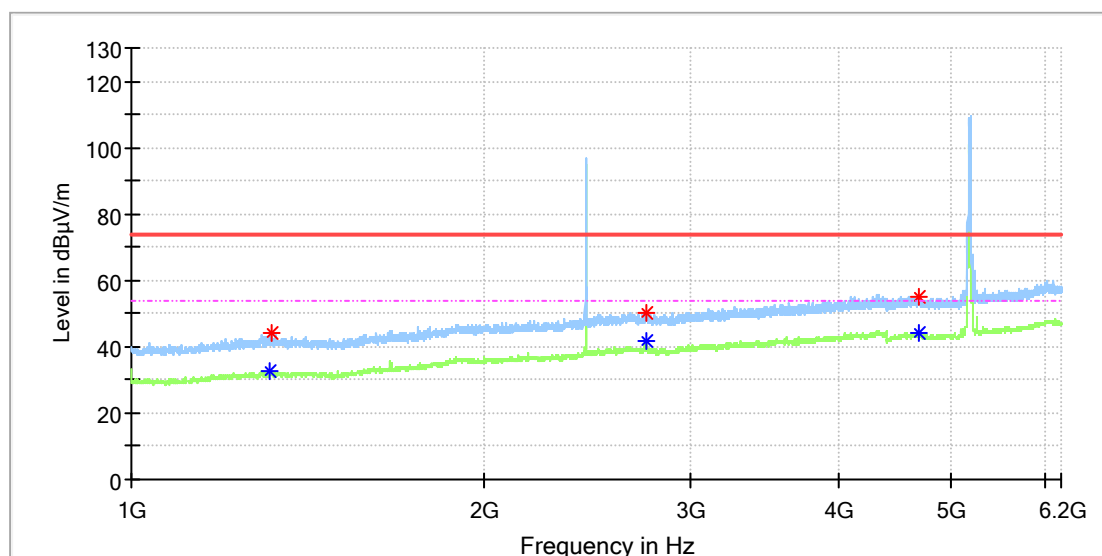
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.250556	14.28	40.00	25.72	100.0	V	35.0	-18.9
108.785556	14.32	43.50	29.18	100.0	V	295.0	-19.1
150.010556	11.96	43.50	31.54	100.0	V	333.0	-22.3
258.273333	13.37	46.00	32.63	100.0	V	123.0	-17.1
727.052778	23.41	46.00	22.59	100.0	V	183.0	-7.4
986.905000	25.97	54.00	28.03	100.0	V	59.0	-3.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA25
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

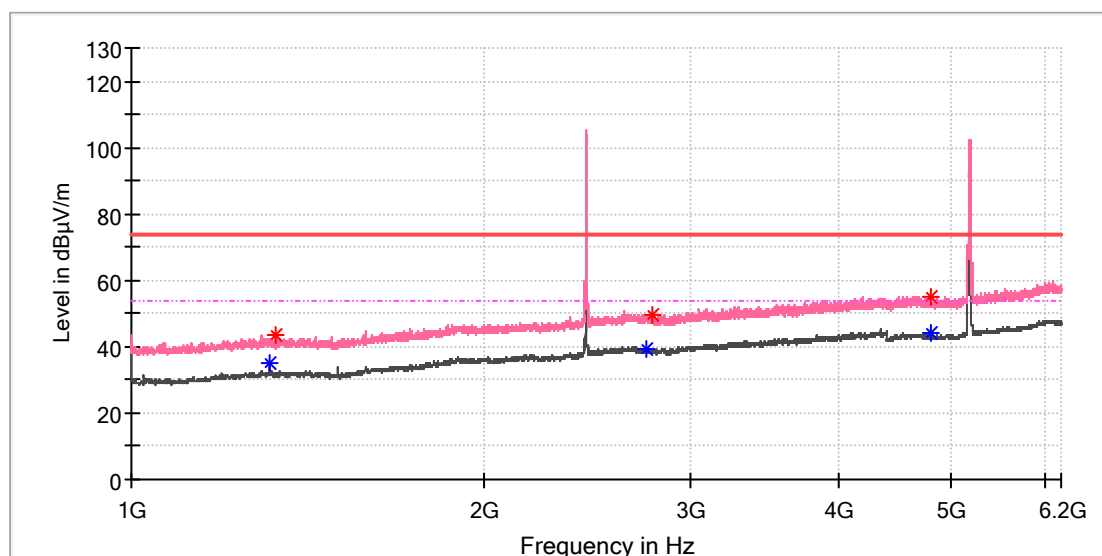
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1311.500000	---	32.40	54.00	21.60	150.0	H	302.0	2.8
1318.000000	44.38	---	74.00	29.62	150.0	H	327.0	2.9
2743.500000	---	41.55	54.00	12.45	150.0	H	322.0	9.9
2744.500000	50.02	---	74.00	23.98	150.0	H	322.0	9.9
4695.000000	---	43.96	54.00	10.04	150.0	H	92.0	13.5
4695.500000	54.77	---	74.00	19.23	150.0	H	26.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA25
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

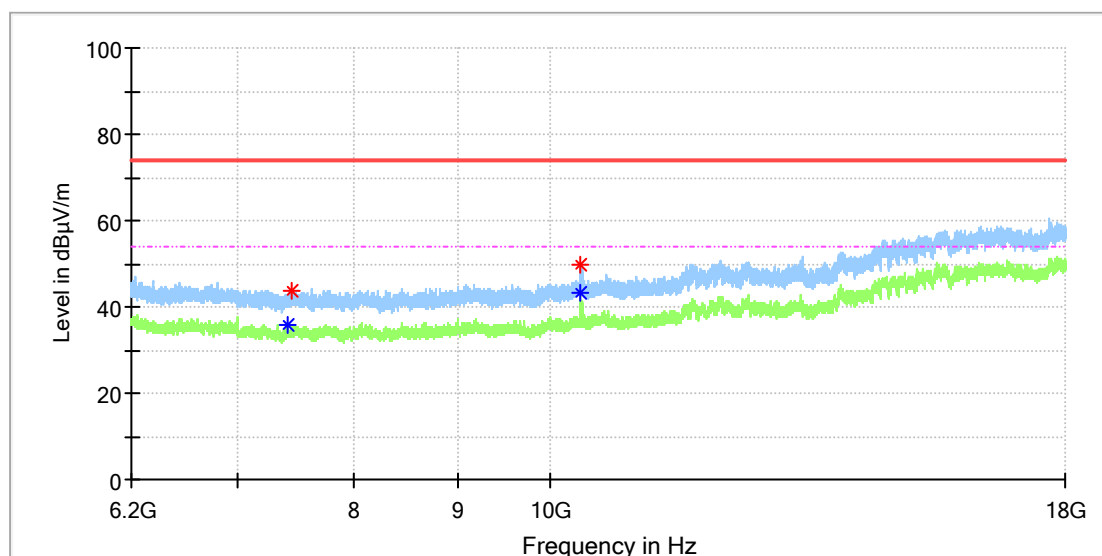
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1312.500000	---	35.01	54.00	18.99	150.0	V	319.0	2.8
1325.000000	43.77	---	74.00	30.23	150.0	V	13.0	2.9
2749.000000	---	39.59	54.00	14.41	150.0	V	275.0	9.9
2785.000000	49.78	---	74.00	24.22	150.0	V	326.0	9.7
4800.000000	55.32	---	74.00	18.68	150.0	V	9.0	13.3
4808.500000	---	44.21	54.00	9.79	150.0	V	238.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA25
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7410.975000	---	36.03	54.00	17.97	150.0	H	30.0	8.3
7446.375000	43.79	---	74.00	30.21	150.0	H	243.0	8.5
10359.008333	49.92	---	74.00	24.08	150.0	H	298.0	11.8
10359.008333	---	43.12	54.00	10.88	150.0	H	298.0	11.8

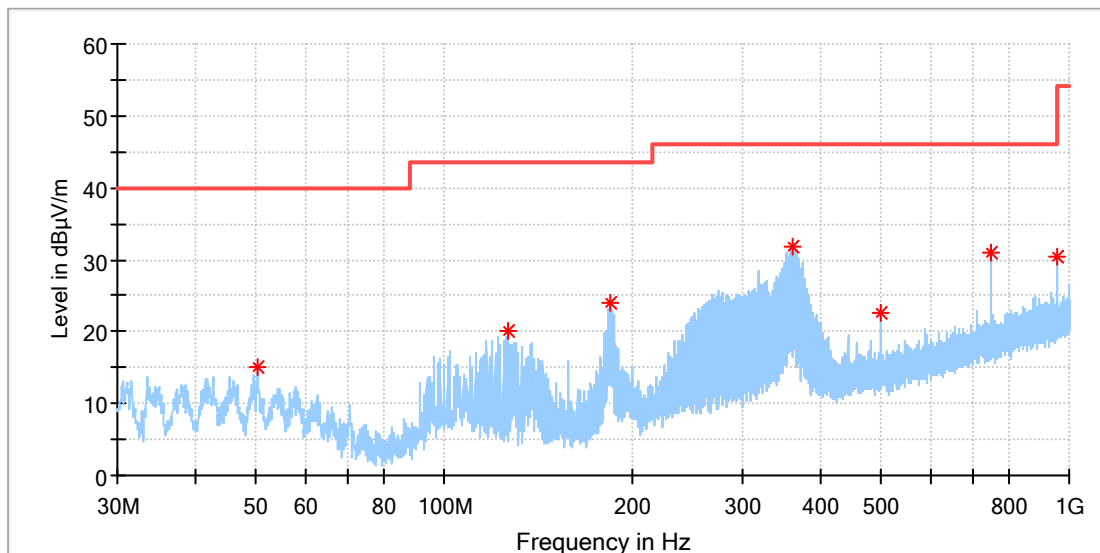
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix C.3: Test Results of co-located transmitting in host AVA35

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA35
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004193946-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

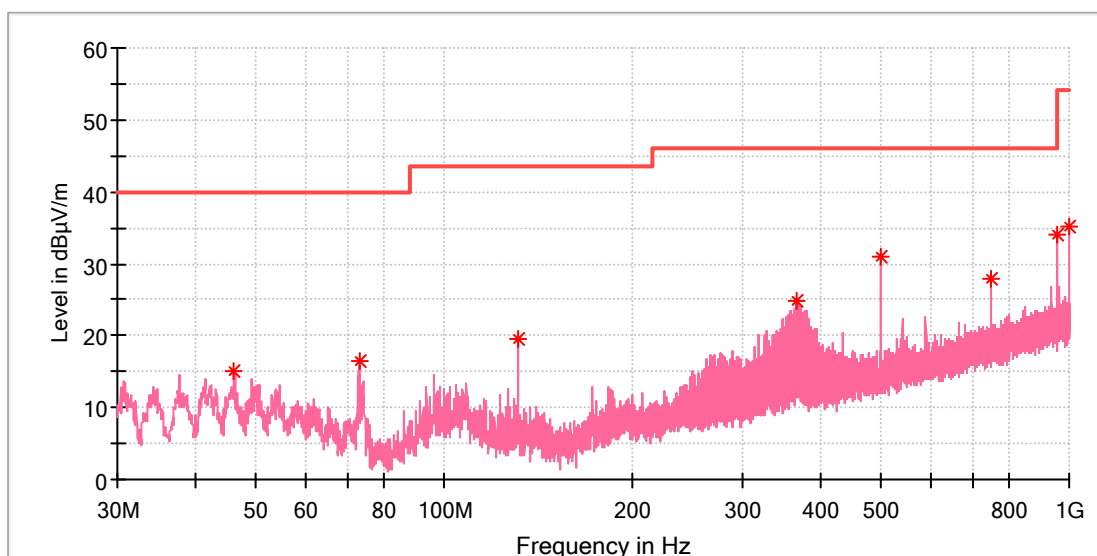
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.316111	15.13	40.00	24.87	100.0	H	216.0	-18.4
126.730556	20.22	43.50	23.28	100.0	H	230.0	-21.6
184.068333	24.03	43.50	19.47	100.0	H	131.0	-20.2
362.009444	31.91	46.00	14.09	100.0	H	0.0	-14.6
500.018889	22.55	46.00	23.45	100.0	H	223.0	-11.9
750.009444	30.88	46.00	15.12	100.0	H	137.0	-7.1
960.014444	30.41	54.00	23.59	100.0	H	39.0	-4.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Audio Video Amplifier
Model: AVA35
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No: A004193946-002
Test Voltage:: AC 120V/60Hz
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

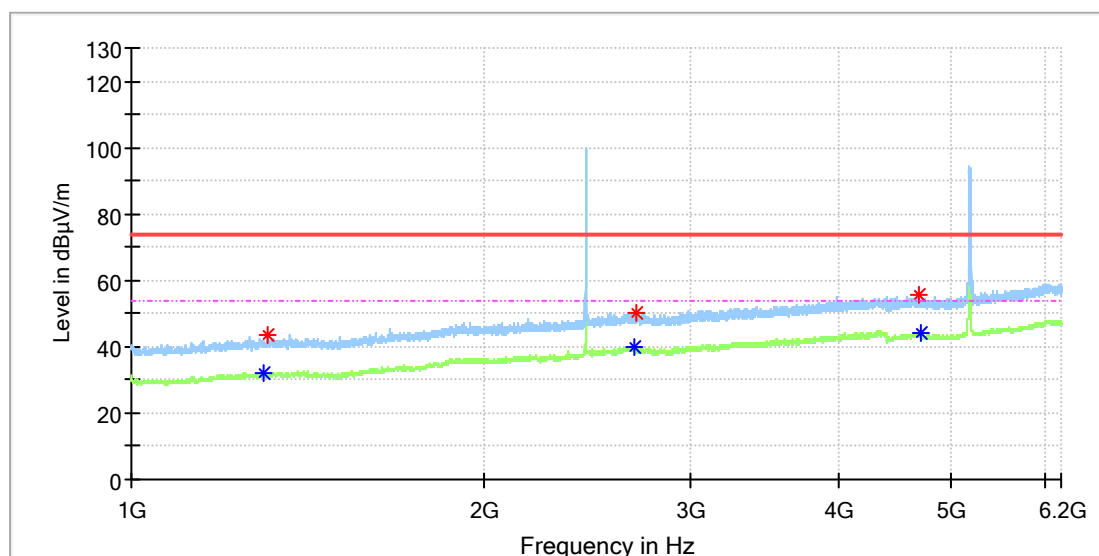
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.166667	14.97	40.00	25.03	100.0	V	243.0	-18.7
73.111111	16.44	40.00	23.56	100.0	V	27.0	-22.9
131.311111	19.54	43.50	23.96	100.0	V	146.0	-22.0
365.350556	24.89	46.00	21.11	100.0	V	186.0	-14.5
500.018889	31.06	46.00	14.94	100.0	V	177.0	-11.9
750.009444	27.78	46.00	18.22	100.0	V	18.0	-7.1
960.014444	34.13	54.00	19.87	100.0	V	0.0	-4.1
1000.000000	35.12	54.00	18.88	100.0	V	177.0	-3.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA35
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004193946-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

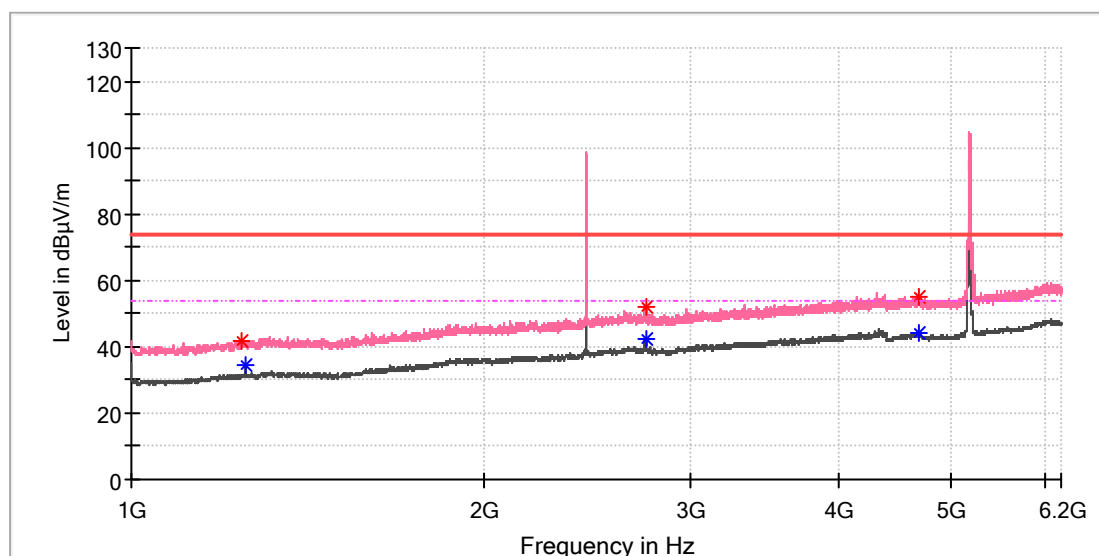
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.000000	---	32.17	54.00	21.83	150.0	H	209.0	2.7
1305.000000	43.33	---	74.00	30.67	150.0	H	91.0	2.8
2687.000000	---	40.06	54.00	13.94	150.0	H	97.0	10.1
2699.000000	50.32	---	74.00	23.68	150.0	H	76.0	10.0
4692.000000	55.72	---	74.00	18.28	150.0	H	317.0	13.5
4699.500000	---	43.90	54.00	10.10	150.0	H	37.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA35
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004193946-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

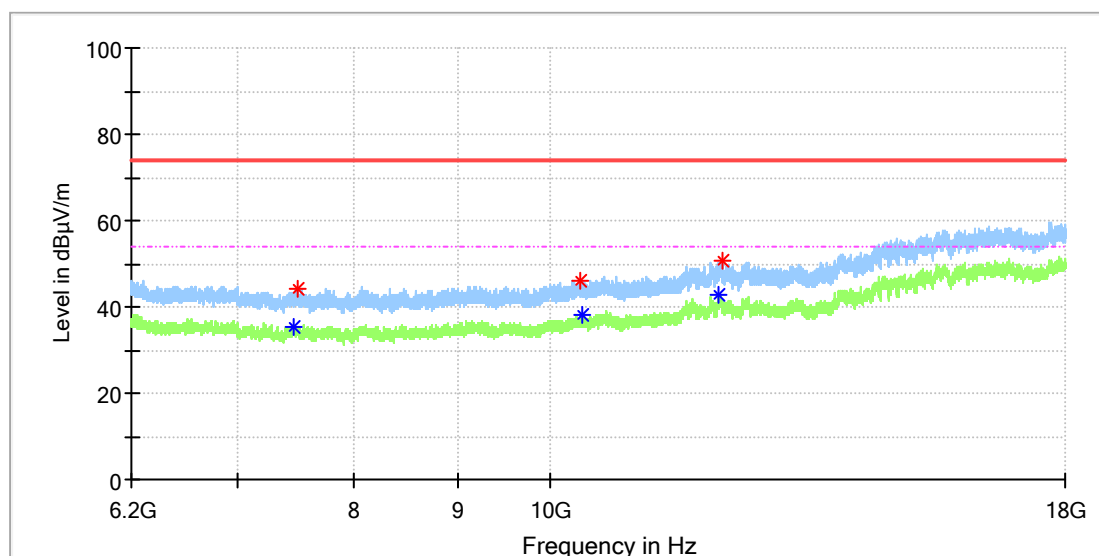
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1243.500000	41.99	---	74.00	32.01	150.0	V	358.0	2.5
1249.500000	---	34.22	54.00	19.78	150.0	V	186.0	2.6
2746.000000	52.17	---	74.00	21.83	150.0	V	146.0	9.9
2746.000000	---	42.31	54.00	11.69	150.0	V	146.0	9.9
4692.000000	54.81	---	74.00	19.19	150.0	V	121.0	13.5
4694.000000	---	43.86	54.00	10.14	150.0	V	103.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA35
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004193946-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

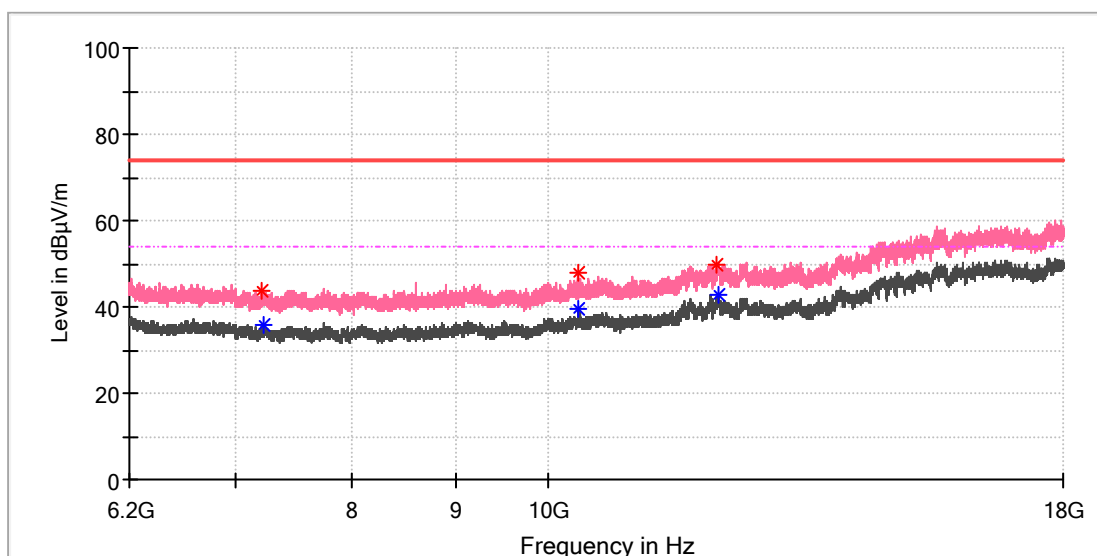
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7462.600000	---	35.58	54.00	18.42	150.0	H	0.0	8.6
7491.116667	44.33	---	74.00	29.67	150.0	H	224.0	8.7
10356.550000	45.93	---	74.00	28.07	150.0	H	224.0	11.8
10370.808333	---	38.13	54.00	15.87	150.0	H	0.0	11.8
12114.750000	---	42.94	54.00	11.06	150.0	H	153.0	15.8
12167.850000	50.68	---	74.00	23.32	150.0	H	329.0	15.8

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Amplifier
Model:	AVA35
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004193946-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.983333	43.62	---	74.00	30.38	150.0	V	97.0	8.8
7225.616667	---	35.92	54.00	18.08	150.0	V	119.0	8.7
10337.375000	47.99	---	74.00	26.01	150.0	V	325.0	11.7
10353.108333	---	39.37	54.00	14.63	150.0	V	144.0	11.8
12126.058333	49.96	---	74.00	24.04	150.0	V	262.0	16.1
12151.133333	---	42.65	54.00	11.35	150.0	V	0.0	16.7

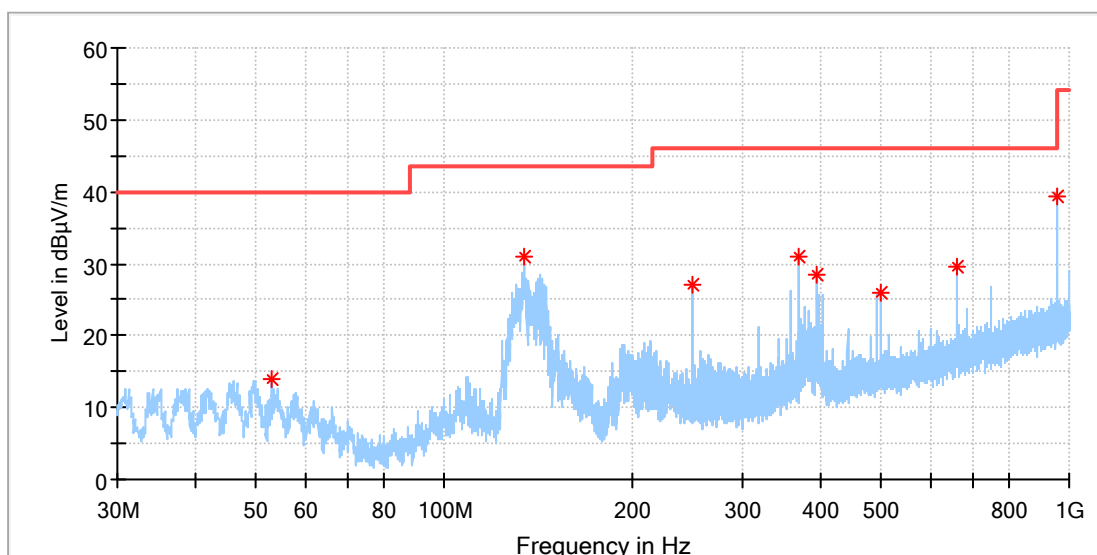
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix C.4: Test Results of co-located transmitting in host AVP45

EUT Information

EUT Name:	Audio Video Processor
Model:	AVP45
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-004
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

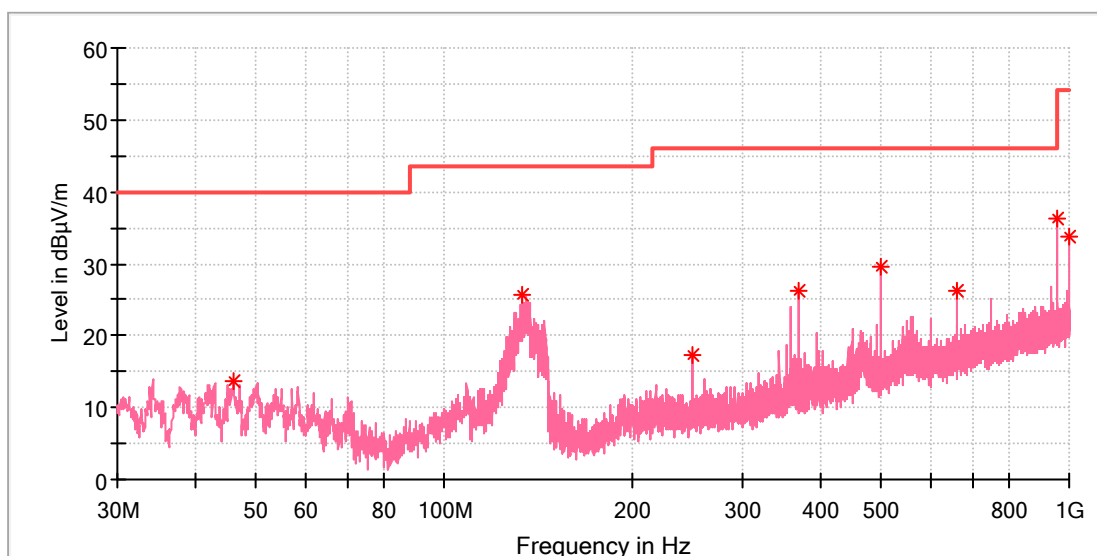
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.010556	13.83	40.00	26.17	100.0	H	35.0	-18.5
134.275000	30.95	43.50	12.55	100.0	H	61.0	-22.1
249.974444	26.98	46.00	19.02	100.0	H	86.0	-17.4
368.637778	31.09	46.00	14.91	100.0	H	277.0	-14.5
393.211111	28.38	46.00	17.62	100.0	H	0.0	-13.9
500.018889	26.07	46.00	19.93	100.0	H	147.0	-11.9
663.625556	29.55	46.00	16.45	100.0	H	319.0	-8.6
960.014444	39.44	54.00	14.56	100.0	H	217.0	-4.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Processor
Model:	AVP45
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-004
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

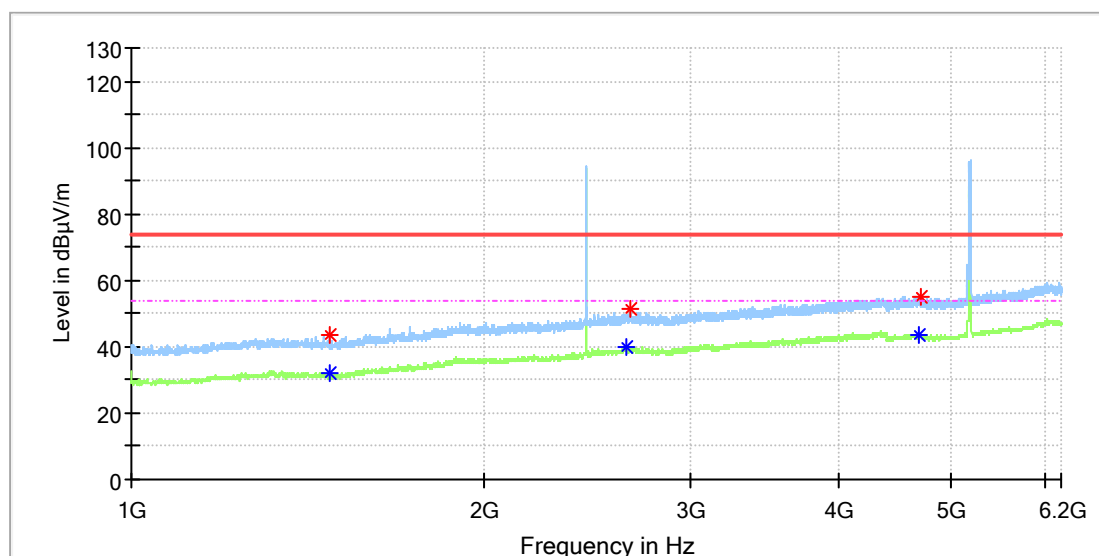
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.951111	13.81	40.00	26.19	100.0	V	213.0	-18.8
133.143333	25.76	43.50	17.74	100.0	V	160.0	-22.1
249.974444	17.34	46.00	28.66	100.0	V	310.0	-17.4
368.637778	26.19	46.00	19.81	100.0	V	151.0	-14.5
500.018889	29.72	46.00	16.28	100.0	V	182.0	-11.9
663.625556	26.26	46.00	19.74	100.0	V	5.0	-8.6
960.014444	36.31	54.00	17.69	100.0	V	168.0	-4.1
1000.000000	33.88	54.00	20.12	100.0	V	182.0	-3.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Audio Video Processor
Model:	AVP45
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-004
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

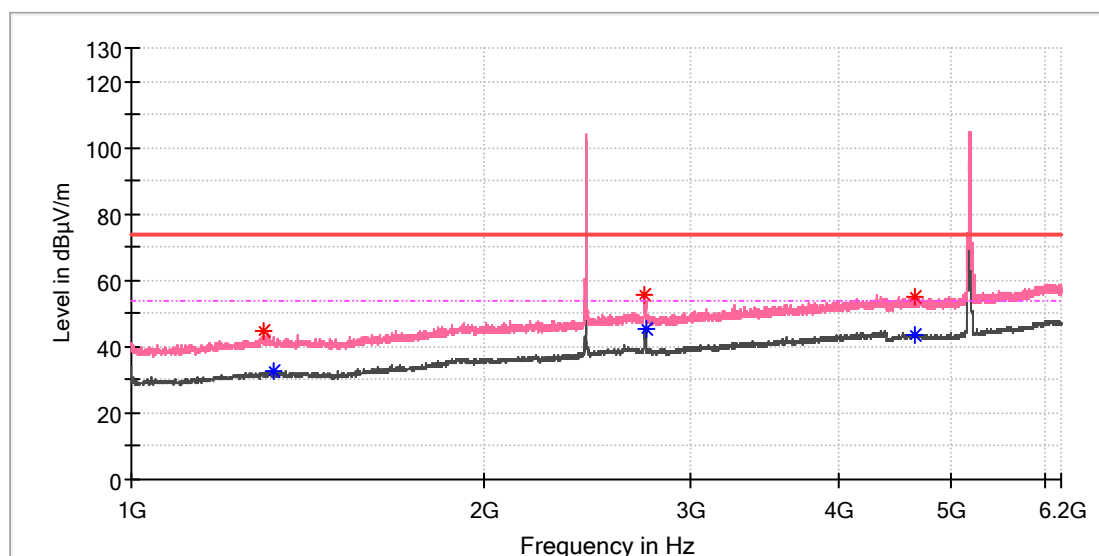
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1474.000000	43.75	---	74.00	30.25	150.0	H	4.0	2.5
1474.500000	---	31.81	54.00	22.19	150.0	H	192.0	2.5
2639.500000	---	39.97	54.00	14.03	150.0	H	312.0	10.0
2661.000000	51.19	---	74.00	22.81	150.0	H	139.0	10.2
4686.000000	---	43.83	54.00	10.17	150.0	H	149.0	13.5
4707.500000	55.27	---	74.00	18.73	150.0	H	144.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Processor
Model:	AVP45
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-004
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

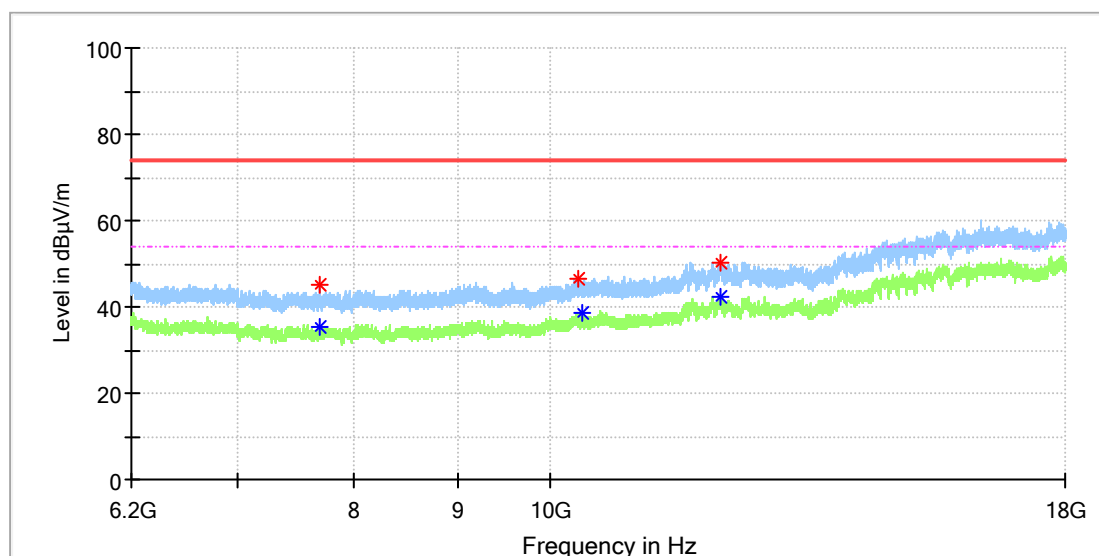
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.000000	44.55	---	74.00	29.45	150.0	V	264.0	2.7
1323.500000	---	32.59	54.00	21.41	150.0	V	357.0	2.9
2737.000000	55.72	---	74.00	18.28	150.0	V	176.0	9.9
2746.000000	---	45.60	54.00	8.40	150.0	V	176.0	9.9
4650.000000	54.77	---	74.00	19.23	150.0	V	18.0	13.5
4655.500000	---	43.69	54.00	10.31	150.0	V	184.0	13.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Processor
Model:	AVP45
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-004
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

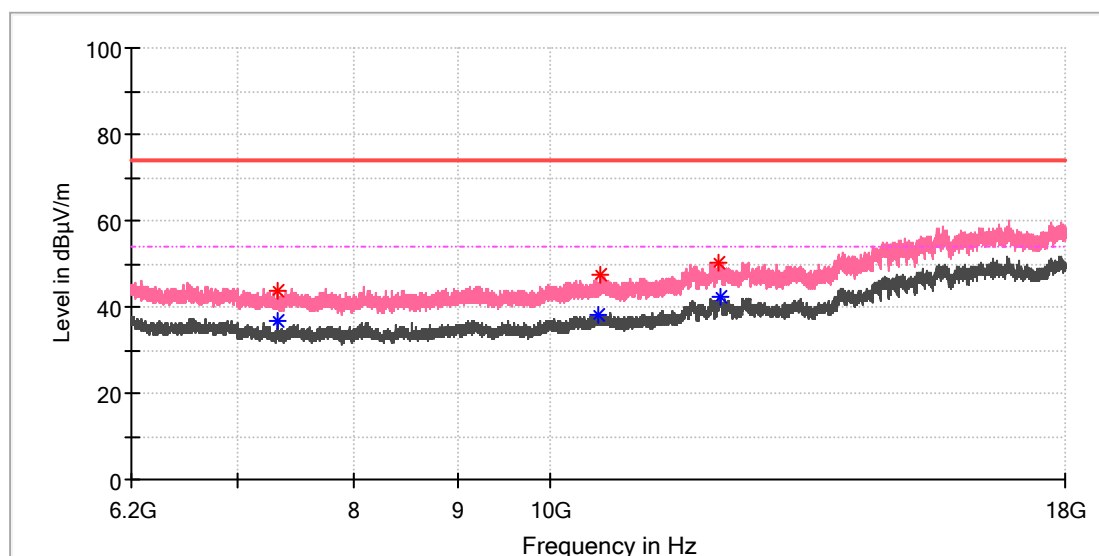
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7680.900000	---	35.54	54.00	18.46	150.0	H	4.0	8.6
7684.833333	45.29	---	74.00	28.71	150.0	H	357.0	8.6
10329.508333	46.38	---	74.00	27.62	150.0	H	316.0	11.7
10365.400000	---	38.79	54.00	15.21	150.0	H	316.0	11.8
12152.608333	---	42.13	54.00	11.87	150.0	H	357.0	16.6
12154.575000	50.01	---	74.00	23.99	150.0	H	185.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Audio Video Processor
Model:	AVP45
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004187921-004
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.033333	---	36.51	54.00	17.49	150.0	V	26.0	8.2
7319.525000	43.71	---	74.00	30.29	150.0	V	49.0	8.2
10559.608333	---	38.07	54.00	15.93	150.0	V	294.0	12.0
10598.941667	47.23	---	74.00	26.77	150.0	V	223.0	12.1
12128.516667	50.16	---	74.00	23.84	150.0	V	129.0	16.2
12137.858333	---	42.31	54.00	11.69	150.0	V	234.0	16.4

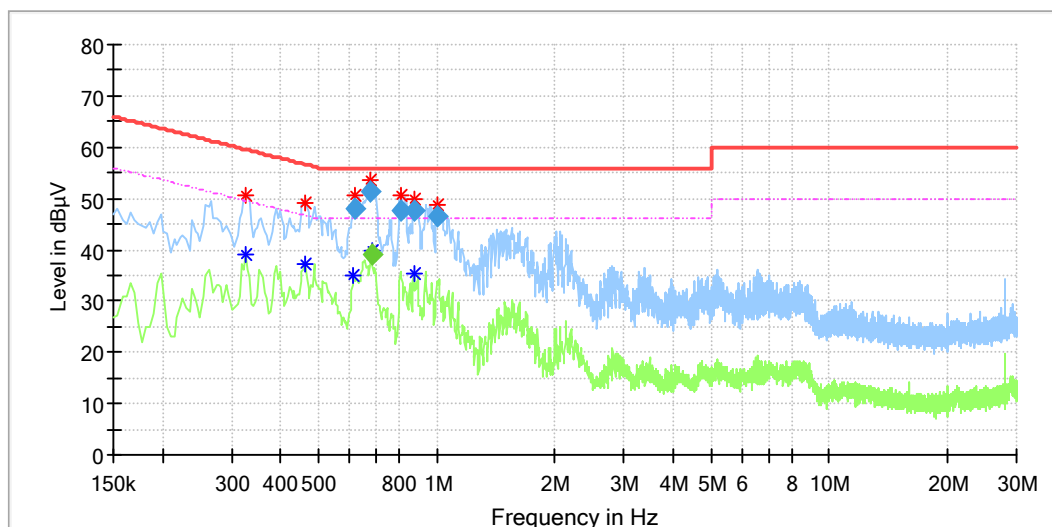
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix C.5: Test Results of Conducted Emissions on AC mains

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 27201804
Model: AVA15
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Solomon Wu / Murphy Chen
Tem./Hum./Pressure: 24.5°C/52.1%/101kPa
Remark:



Critical_Freqs

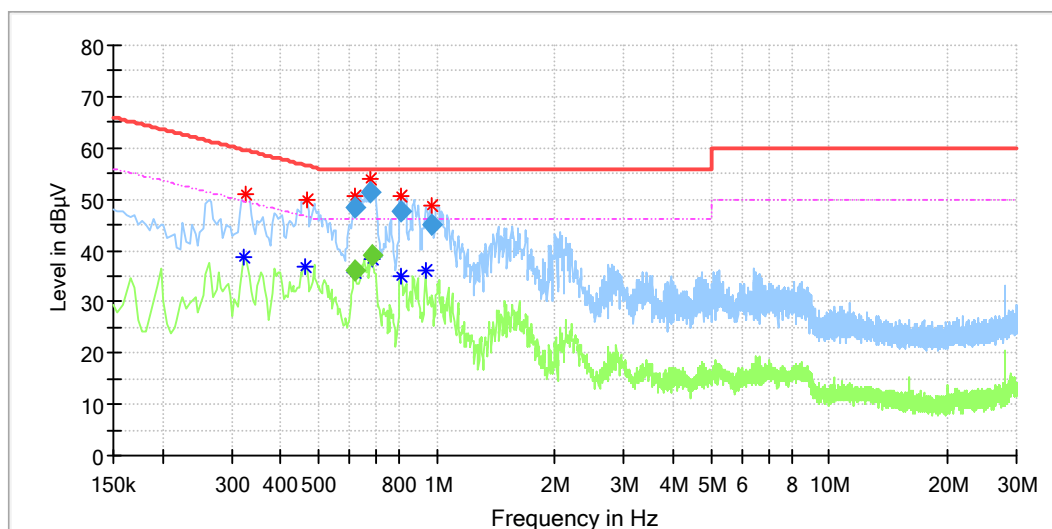
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.326	---	38.9	49.55	10.63	L1	9.6
0.326	50.6	---	59.55	8.97	L1	9.6
0.462	---	37.2	46.66	9.42	L1	9.5
0.462	49.1	---	56.66	7.55	L1	9.5
0.614	---	34.9	46.00	11.09	L1	9.6
0.618	50.6	---	56.00	5.40	L1	9.6
0.678	53.6	---	56.00	2.36	L1	9.7
0.682	---	39.8	46.00	6.25	L1	9.7
0.815	50.7	---	56.00	5.27	L1	9.7
0.874	49.9	---	56.00	6.08	L1	9.7
0.878	---	35.3	46.00	10.69	L1	9.7
1.002	48.7	---	56.00	7.33	L1	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.618	48.0	---	56.00	7.96	1000.0	9.0	L1	9.6
0.678	51.2	---	56.00	4.77	1000.0	9.0	L1	9.7
0.682	---	39.1	46.00	6.87	1000.0	9.0	L1	9.7
0.815	47.7	---	56.00	8.28	1000.0	9.0	L1	9.7
0.874	47.7	---	56.00	8.35	1000.0	9.0	L1	9.7
1.002	46.5	---	56.00	9.54	1000.0	9.0	L1	9.7

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 27201804
Model: AVA15
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Solomon Wu / Murphy Chen
Tem./Hum./Pressure: 24.5°C/52.1%/101kPa
Remark:



Critical_Freqs

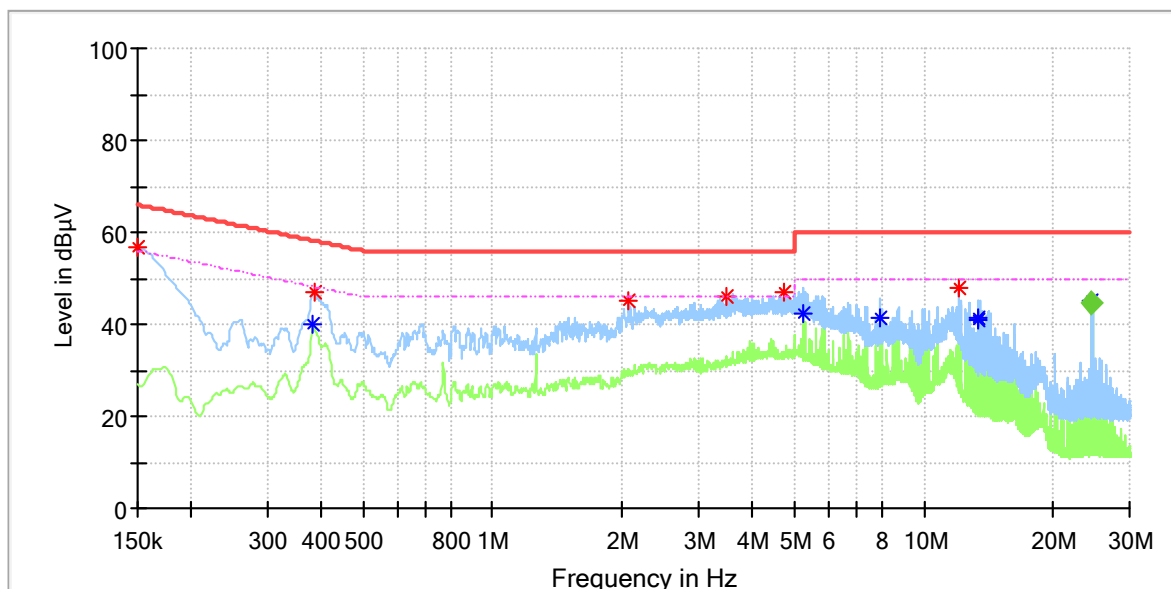
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.322	---	38.8	49.66	10.88	N	9.9
0.326	51.0	---	59.55	8.60	N	9.9
0.462	---	37.0	46.66	9.64	N	9.9
0.466	49.9	---	56.59	6.68	N	9.9
0.618	---	35.7	46.00	10.29	N	9.9
0.619	50.5	---	56.00	5.51	N	9.9
0.678	53.9	---	56.00	2.15	N	9.9
0.682	---	38.3	46.00	7.66	N	9.9
0.814	---	35.0	46.00	10.99	N	9.8
0.815	50.4	---	56.00	5.57	N	9.8
0.934	---	36.3	46.00	9.74	N	9.8
0.967	48.9	---	56.00	7.11	N	9.8

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.618	---	36.0	46.00	10.00	1000.0	9.0	N	9.9
0.619	48.2	---	56.00	7.78	1000.0	9.0	N	9.9
0.678	51.3	---	56.00	4.70	1000.0	9.0	N	9.9
0.682	---	38.9	46.00	7.09	1000.0	9.0	N	9.9
0.815	47.6	---	56.00	8.42	1000.0	9.0	N	9.8
0.967	44.9	---	56.00	11.11	1000.0	9.0	N	9.8

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 27201804
Model: AVA25
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By:/Review By: Simon Feng/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark:



Critical Freqs

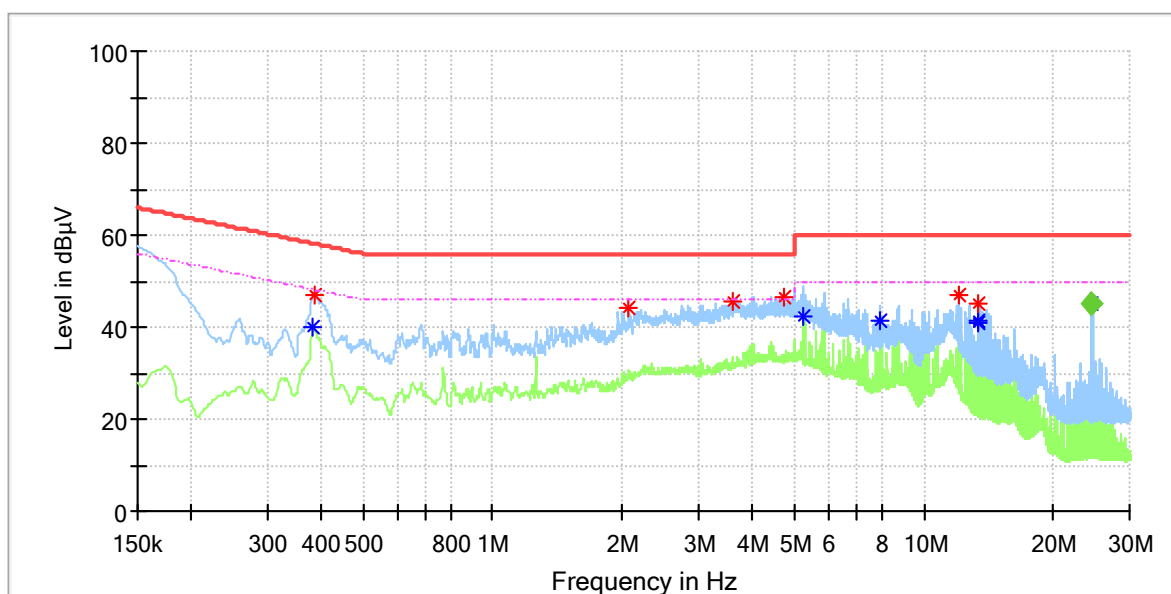
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.15	56.78	---	66.00	9.22	L1	10.23
0.38	---	40.01	48.20	8.19	L1	10.25
0.39	47.16	---	58.16	11.00	L1	10.25
2.07	45.21	---	56.00	10.79	L1	10.31
3.49	46.13	---	56.00	9.87	L1	10.35
4.73	46.78	---	56.00	9.22	L1	10.41
5.24	---	42.33	50.00	7.67	L1	10.45
7.92	---	41.57	50.00	8.43	L1	10.56
12.06	47.75	---	60.00	12.25	L1	10.70
13.36	---	41.11	50.00	8.89	L1	10.73
13.42	---	41.32	50.00	8.68	L1	10.73
24.58	---	45.21	50.00	4.79	L1	11.29

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
24.58	---	44.79	50.00	5.21	1000.00	9.00	L1	11.29

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 27201804
Model: AVA25
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By./Review By: Simon Feng/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark:



Critical_Freqs

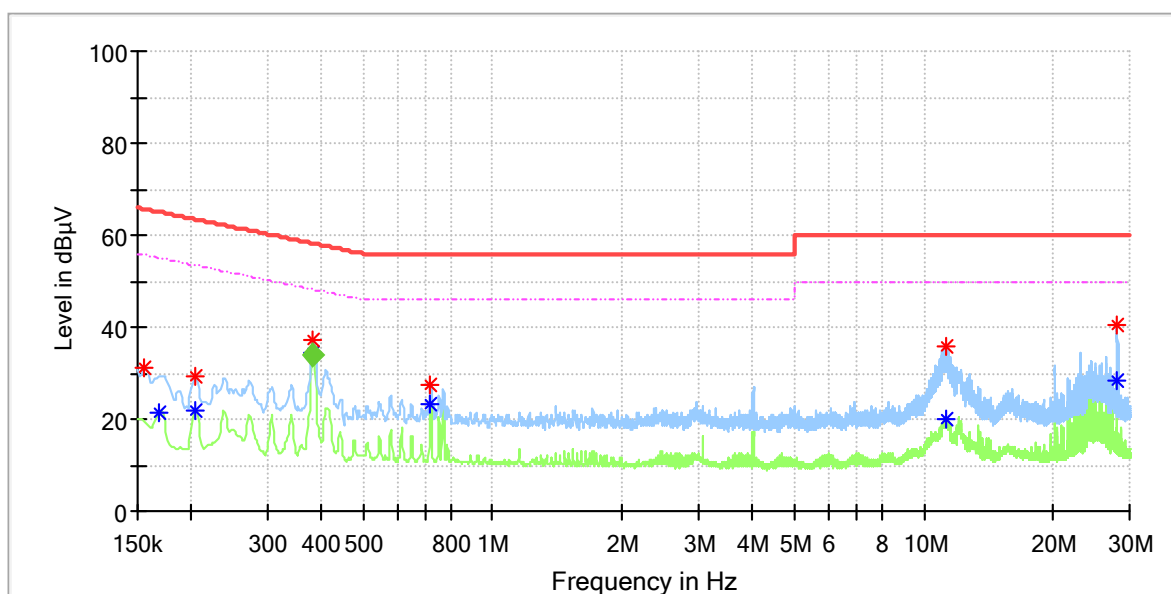
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.38	---	39.97	48.20	8.23	N	10.26
0.39	46.90	---	58.13	11.23	N	10.26
2.07	44.14	---	56.00	11.86	N	10.31
3.60	45.36	---	56.00	10.64	N	10.37
4.74	46.66	---	56.00	9.34	N	10.42
5.24	---	42.46	50.00	7.54	N	10.45
7.92	---	41.35	50.00	8.65	N	10.56
12.05	47.08	---	60.00	12.92	N	10.69
13.36	45.12	---	60.00	14.88	N	10.71
13.36	---	41.06	50.00	8.94	N	10.71
13.42	---	41.36	50.00	8.64	N	10.71
24.58	---	45.19	50.00	4.81	N	11.29

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
24.58	---	45.05	50.00	4.95	1000.00	9.00	N	11.29

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 27201804
Model: AVA35
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 120V/60Hz
Test Standard: EN 55032&FCC Part 15
Test By:/Review By: Leon Zhu / Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark:



Critical_Freqs

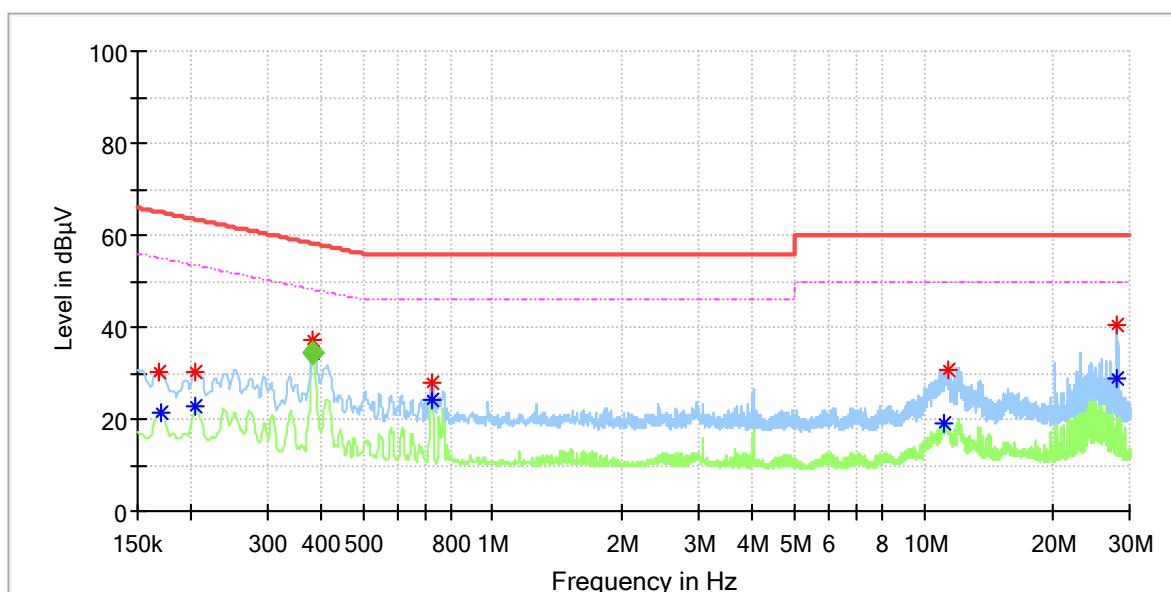
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.15	31.17	---	65.73	34.56	L1	10.24
0.17	---	21.50	55.05	33.54	L1	10.24
0.20	---	21.82	53.48	31.66	L1	10.24
0.20	29.22	---	63.48	34.27	L1	10.24
0.38	---	34.42	48.20	13.78	L1	10.25
0.38	37.09	---	58.20	21.11	L1	10.25
0.72	27.53	---	56.00	28.47	L1	10.28
0.72	---	23.31	46.00	22.69	L1	10.28
11.22	---	19.84	50.00	30.16	L1	10.69
11.27	35.68	---	60.00	24.32	L1	10.69
28.12	---	28.42	50.00	21.58	L1	11.41
28.15	40.38	---	60.00	19.62	L1	11.41

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.38	---	33.93	48.22	14.28	1000.00	9.00	L1	10.25

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 27201804
Model: AVA35
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 120V/60Hz
Test Standard: EN 55032&FCC Part 15
Test By:/Review By: Leon Zhu / Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark:



Critical_Freqs

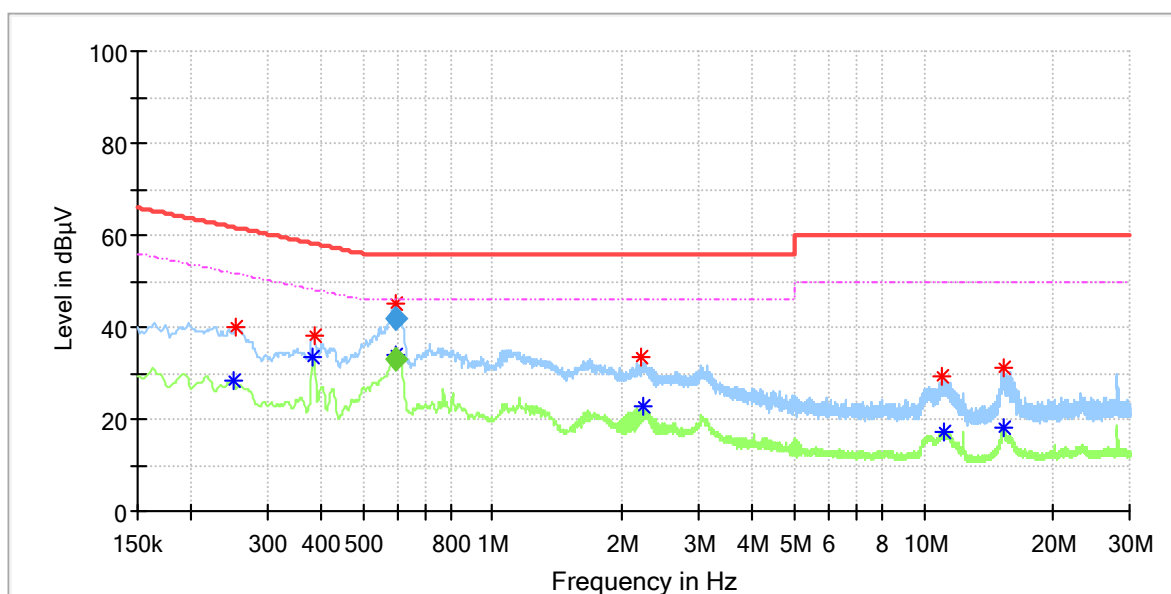
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.17	30.36	---	65.05	34.68	N	10.25
0.17	---	21.40	54.97	33.57	N	10.25
0.20	30.45	---	63.48	33.03	N	10.25
0.20	---	22.76	53.42	30.66	N	10.25
0.38	---	34.59	48.20	13.60	N	10.26
0.38	37.25	---	58.20	20.95	N	10.26
0.72	---	24.37	46.00	21.63	N	10.29
0.72	27.87	---	56.00	28.13	N	10.29
11.17	---	19.27	50.00	30.73	N	10.68
11.38	30.83	---	60.00	29.17	N	10.68
28.13	---	28.73	50.00	21.27	N	11.41
28.13	40.26	---	60.00	19.74	N	11.41

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.38	---	34.26	48.22	13.96	1000.00	9.00	N	10.26

EUT Information

EUT Name: Audio Video Processor
Order Number: 27201804
Model: AVA45
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 230V/50Hz
Test Standard: EN 55032
Test By:/Review By: Junhua Sun/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark:



Critical_Freqs

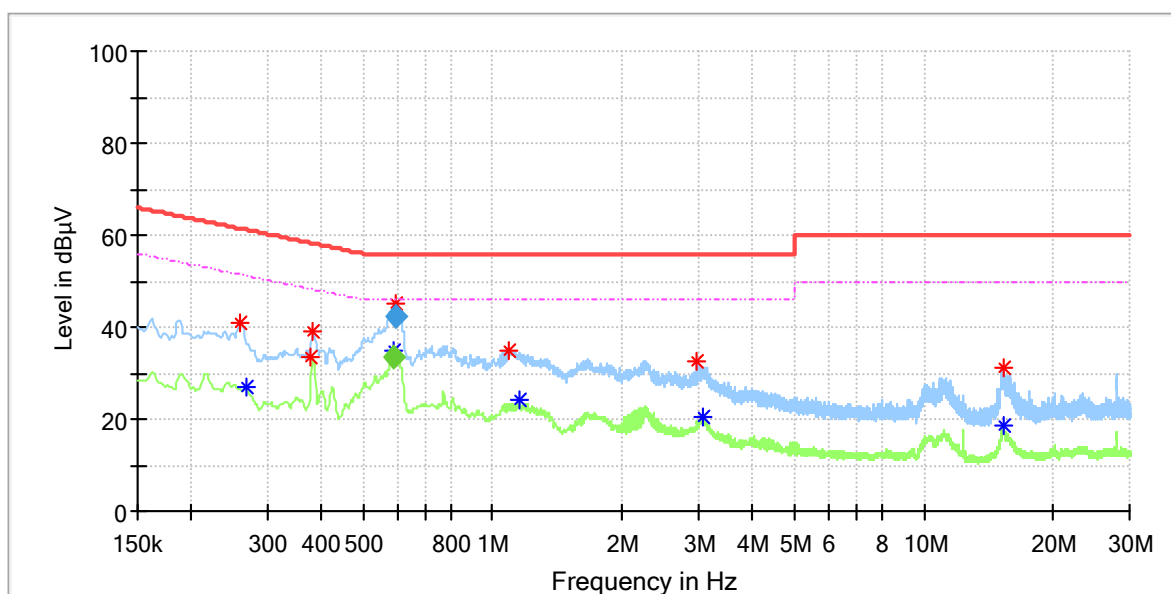
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.25	---	28.18	51.77	23.59	L1	10.24
0.25	40.07	---	61.61	21.54	L1	10.24
0.38	---	33.65	48.20	14.55	L1	10.25
0.39	37.99	---	58.16	20.17	L1	10.25
0.60	---	33.81	46.00	12.19	L1	10.26
0.60	44.89	---	56.00	11.11	L1	10.27
2.22	33.39	---	56.00	22.61	L1	10.31
2.24	---	22.69	46.00	23.31	L1	10.31
11.03	29.10	---	60.00	30.90	L1	10.68
11.15	---	17.21	50.00	32.79	L1	10.69
15.34	---	17.94	50.00	32.06	L1	10.79
15.35	31.33	---	60.00	28.67	L1	10.79

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.60	---	33.22	46.00	12.78	1000.00	9.00	L1	10.26
0.60	41.87	---	56.00	14.13	1000.00	9.00	L1	10.26

EUT Information

EUT Name: Audio Video Processor
Order Number: 27201804
Model: AVA45
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Test Voltage: AC 230V/50Hz
Test Standard: EN 55032
Test By:/Review By: Junhua Sun/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark:



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.26	40.79	---	61.45	20.66	N	10.25
0.27	---	27.14	51.19	24.04	N	10.25
0.38	33.59	---	58.38	24.79	N	10.26
0.38	39.00	---	58.20	19.20	N	10.26
0.59	---	34.97	46.00	11.03	N	10.27
0.59	45.32	---	56.00	10.68	N	10.27
1.10	34.91	---	56.00	21.09	N	10.29
1.15	---	24.40	46.00	21.60	N	10.29
2.98	32.39	---	56.00	23.61	N	10.34
3.06	---	20.67	46.00	25.33	N	10.35
15.29	31.12	---	60.00	28.88	N	10.76
15.30	---	18.72	50.00	31.28	N	10.76

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.59	---	33.35	46.00	12.65	1000.00	9.00	N	10.27
0.59	42.53	---	56.00	13.47	1000.00	9.00	N	10.27