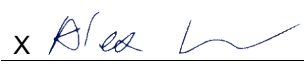


Prüfbericht-Nr.: Test report no.:	CN26KNXF 001	Auftrags-Nr.: Order no.:	27219569	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-08-08	
Auftraggeber: Client:	Harman International Industries, Incorporated 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: Test item:	Bluetooth Module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	AC6951 (Trademark: JBL)			
Auftrags-Inhalt: Order content:	FCC & IC approval			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207	RSS-247 Issue 4, July 2025 RSS-Gen Issue 5 February 2021		
Wareneingangsdatum: Date of sample receipt:	2026-01-28	Please refer to photo documents		
Prüfmuster-Nr.: Test sample no.:	A004208091, A004214153, A004196209, A004224906			
Prüfzeitraum: Testing period:	2026-01-29 – 2026-04-10			
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:	X 	genehmigt von: authorized by:	X 	
Datum: Date: 2026-04-20	Signed by: Harry W. C. Wu	Ausstellungsdatum: Issue date: 2026-04-20	Signed by: Alex Lan	
Stellung / Position	Project Manager	Stellung / Position	Authorizer	
Sonstiges / Other:	FCC ID: API-AC6951 IC: 6132A-AC6951 HVIN: AC6951 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 specification(s)	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. 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.				

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Test Report No.

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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>
<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>
<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 bezueglich 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.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing				
Equipment	Manufacturer	Model No.	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

Conduct Emissions Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR3	102680	2027-02-03
Artificial Mains Network	R&S	ENV216	102333	2026-07-18
Artificial Mains Network	R&S	ENV216	101445	2027-02-03
EMC32 Test Software	R&S	EMC32(Ver.10.60.20)	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 (dB μ V/m)	4.27dB
Radiated Emission (above 1000MHz)	Field strength (dB μ V/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.

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 Layout Antenna, 2.99dBi gain	
re-assessment co-location radiated spurious emissions	Bluetooth Module	FCC ID: API-AC6951 IC: 6132A-AC6951 The Classic Bluetooth will be disabled via software while installed in the host.
	Bluetooth + Wi-Fi Module	FCC ID: 2ADBM-LS10, IC: 20276-LS10
	Accommodate the above modules into the Host system with model: SDR-40, SDP-60, SDP-70	

Based on above changes, the Radiated Spurious Emissions for module AC6951 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	AC6951
Trade Mark	JBL
FCC ID	API-AC6951
IC	6132A-AC6951
HVIN	AC6951
Operating Voltage	DC 5V
Testing Voltage	DC 5V via USB interface for Bluetooth Module AC 120V/60Hz for Host SDR-40, SDP-60, SDP-70

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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
Antenna Type	PCB Layout Antenna
Antenna Gain	2.99 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
FPC Antenna	PCB Layout Antenna
0 dBi	2.99 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 SDR-40
- D. co-located transmitting in host SDP-60
- E. co-located transmitting in host SDP-70
- F. 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: 2013.

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

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)

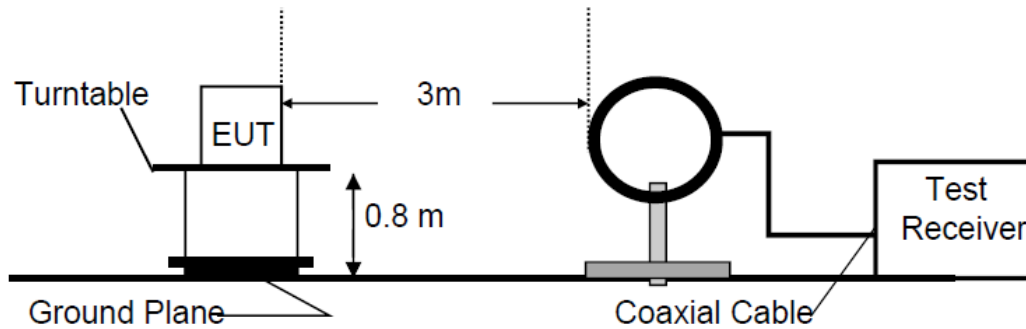


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

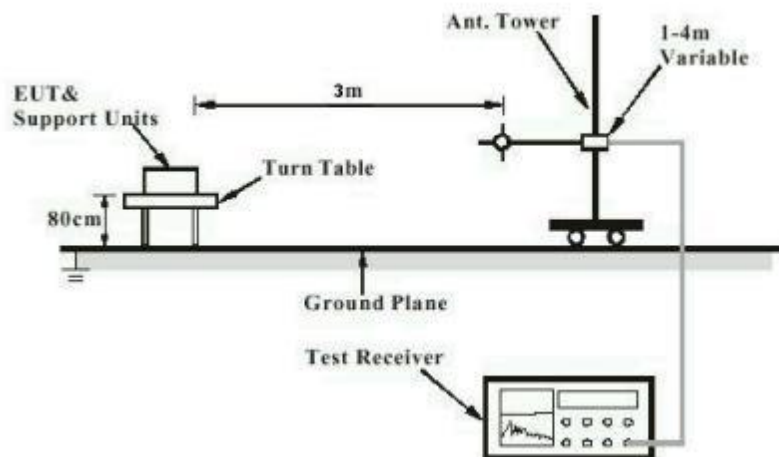


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

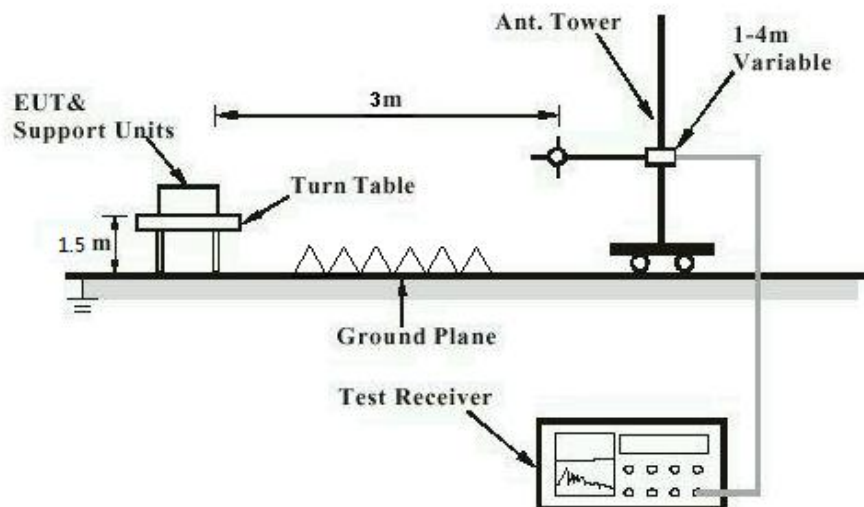
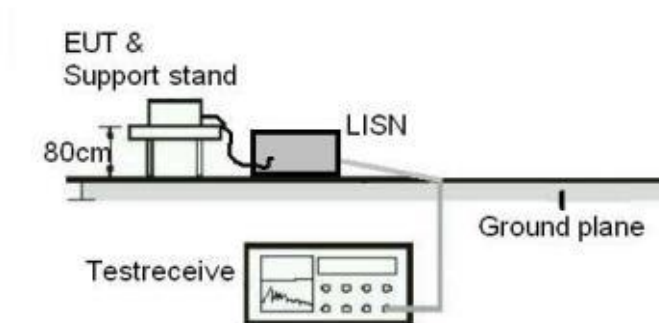


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



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: 2013
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	: 2026-01-29 to 2026-04-10
Input voltage	: DC 5V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23°C
Relative humidity	: 53 %
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: 2013
Limits	: KDB 996369 D04 The emissions not exceed the highest limit.
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-01-29 to 2026-04-10
Input voltage	: AC 120V/60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23°C
Relative humidity	: 53 %
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: 2013
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	: 2026-01-29 to 2026-04-10
Input voltage	: AC 120V/60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 23.4 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix C.

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

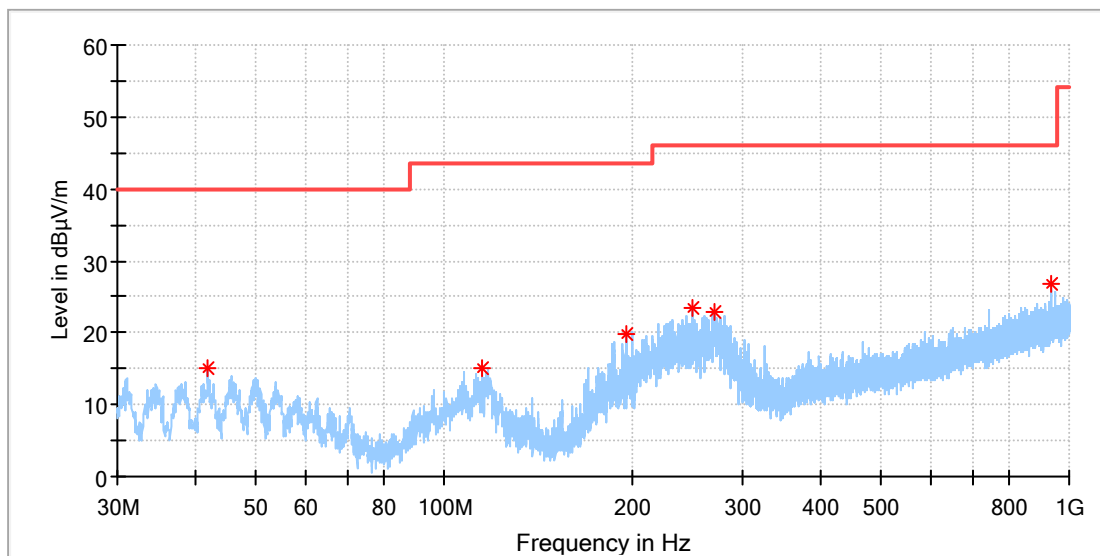
Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

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

Classical Bluetooth mode
30MHz - 1GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

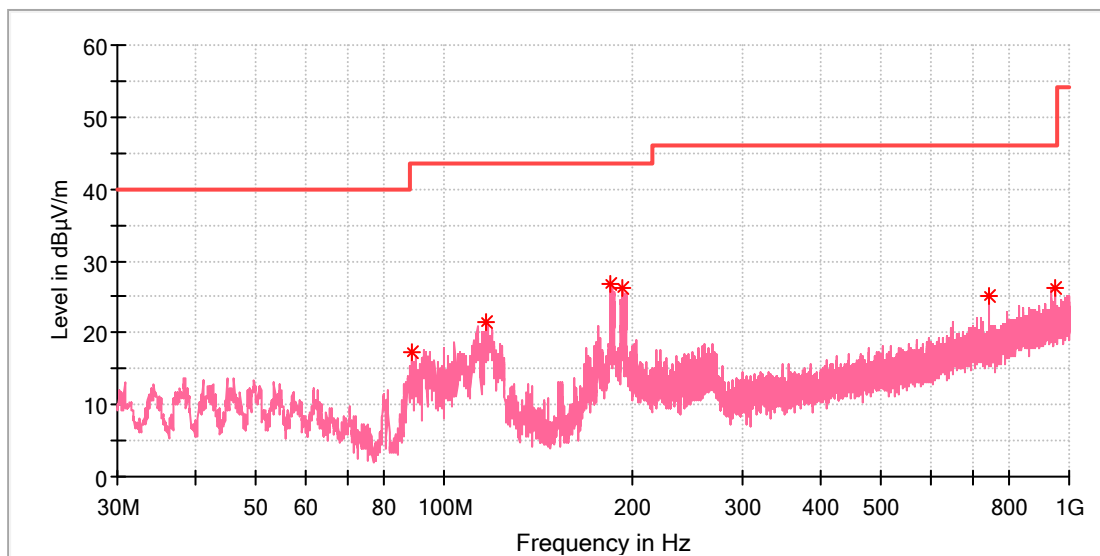


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.801667	15.17	40.00	24.83	100.0	H	324.0	-19.7
115.306111	14.95	43.50	28.55	100.0	H	287.0	-19.9
195.061667	19.95	43.50	23.55	100.0	H	249.0	-19.3
249.112222	23.51	46.00	22.49	100.0	H	272.0	-17.4
271.637778	22.75	46.00	23.25	100.0	H	272.0	-16.9
936.950000	26.68	46.00	19.32	100.0	H	324.0	-4.4

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BR DH5_Mid channel
Order No/Sample No: A004208091-004
Test Voltage:: DC 3.3V
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



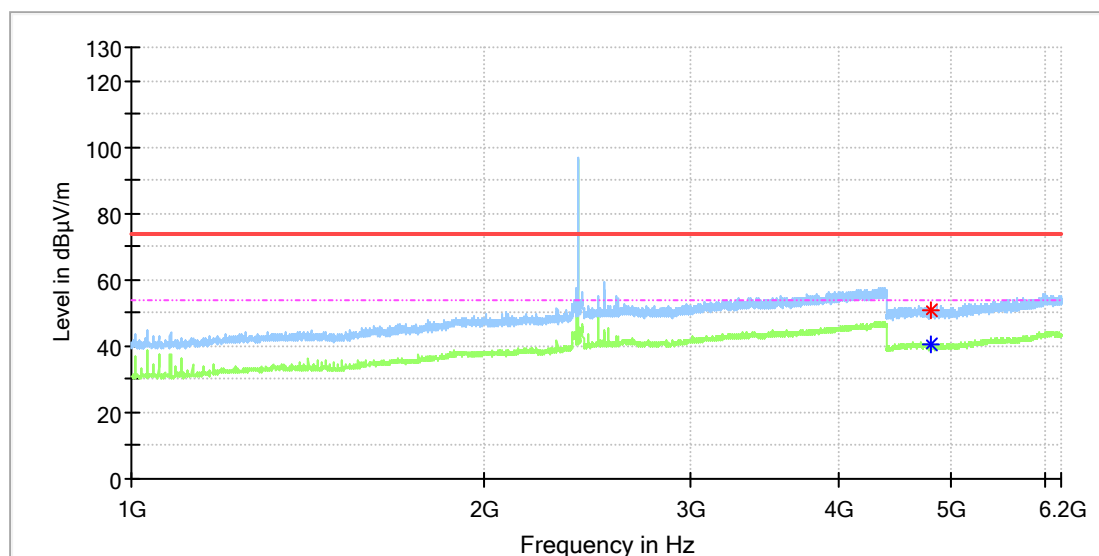
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
88.738889	17.30	43.50	26.20	100.0	V	177.0	-21.5
116.868889	21.54	43.50	21.96	100.0	V	227.0	-20.2
184.930556	26.90	43.50	16.60	100.0	V	233.0	-20.1
193.337222	26.31	43.50	17.19	100.0	V	342.0	-19.4
742.518889	25.11	46.00	20.89	100.0	V	66.0	-7.2
950.368333	26.33	46.00	19.67	100.0	V	355.0	-4.3

1GHz - 6.2GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

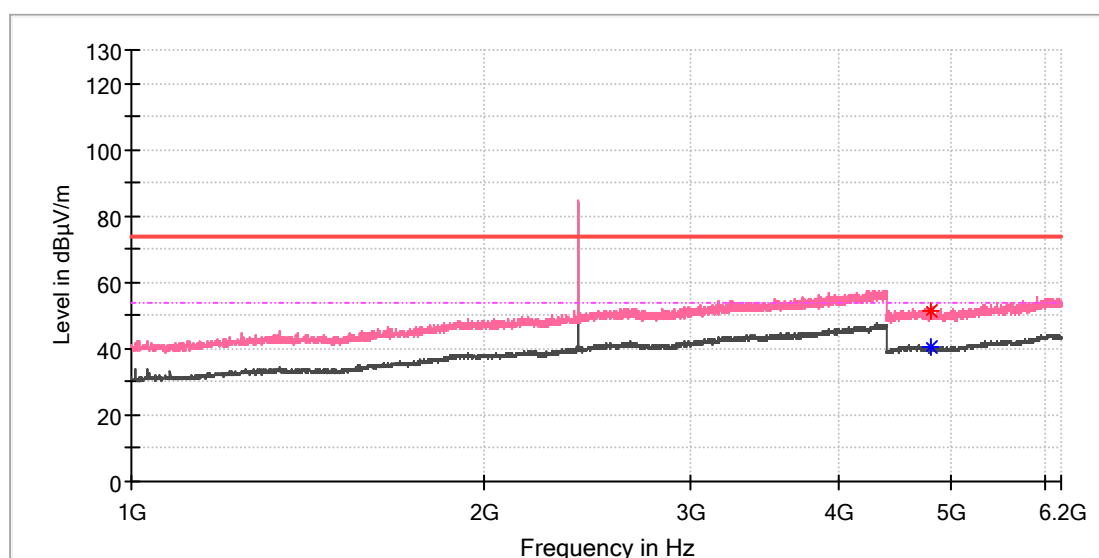


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.000000	50.89	---	74.00	23.11	150.0	H	180.0	13.3
4803.500000	---	40.69	54.00	13.31	150.0	H	359.0	13.3

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BR DH5_Low channel
Order No/Sample No: A004208091-004
Test Voltage:: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

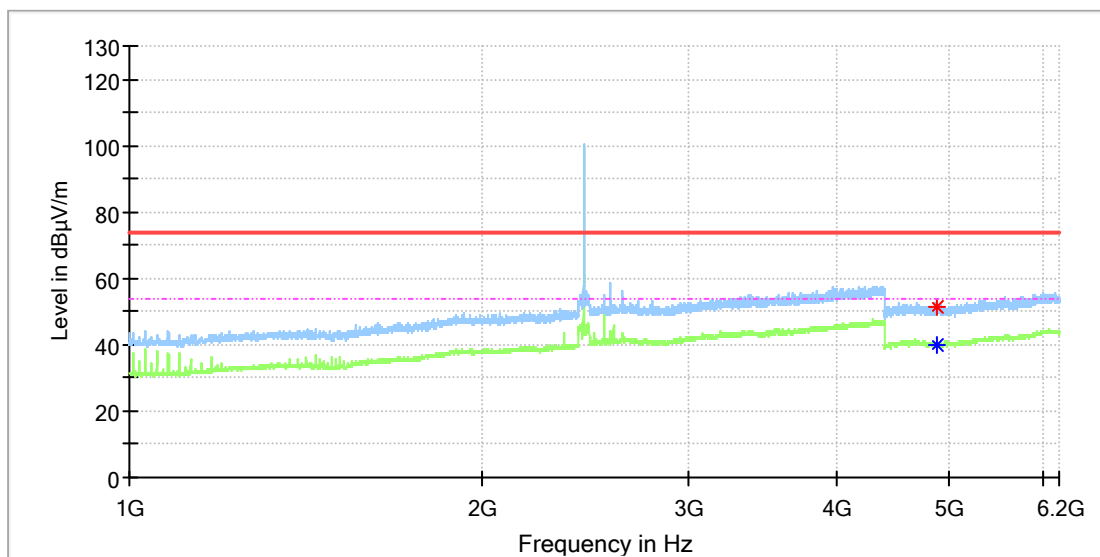


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	40.34	54.00	13.66	150.0	V	158.0	13.3
4804.500000	51.30	---	74.00	22.70	150.0	V	177.0	13.3

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BR DH5_Mid channel
Order No/Sample No: A004208091-004
Test Voltage:: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

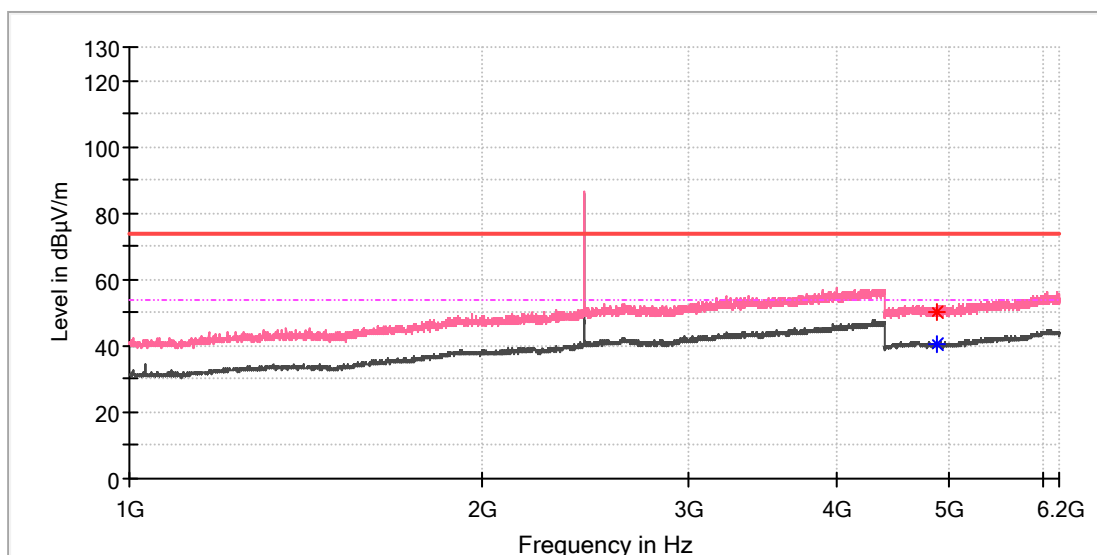


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	51.13	---	74.00	22.87	150.0	H	208.0	13.3
4881.000000	---	40.07	54.00	13.93	150.0	H	68.0	13.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

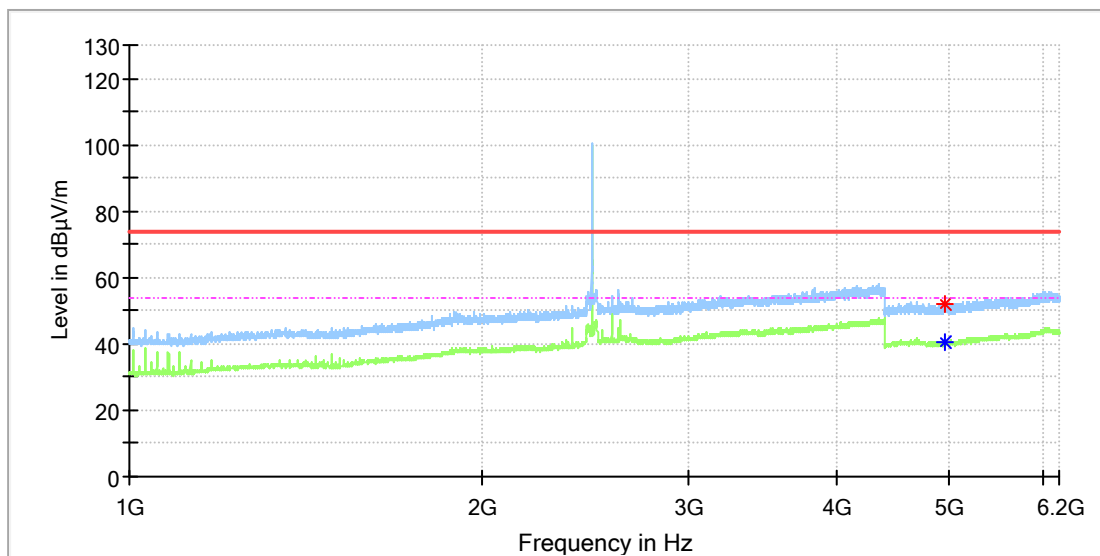


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	50.04	---	74.00	23.96	150.0	V	117.0	13.3
4880.500000	---	40.54	54.00	13.46	150.0	V	159.0	13.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

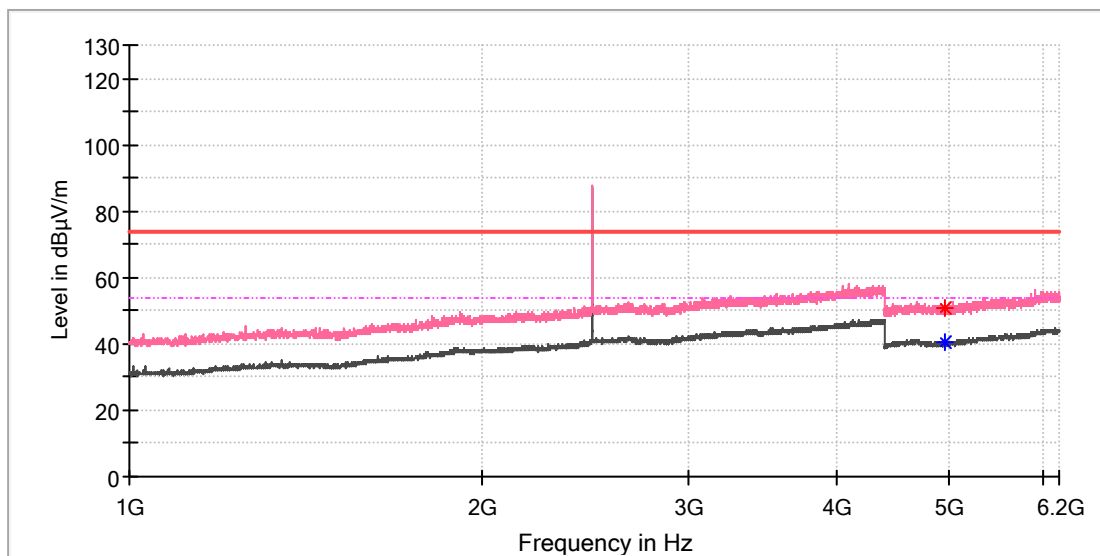


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.500000	---	40.62	54.00	13.38	150.0	H	338.0	13.3
4959.500000	51.71	---	74.00	22.29	150.0	H	272.0	13.3

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BR DH5_High channel
Order No/Sample No: A004208091-004
Test Voltage:: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



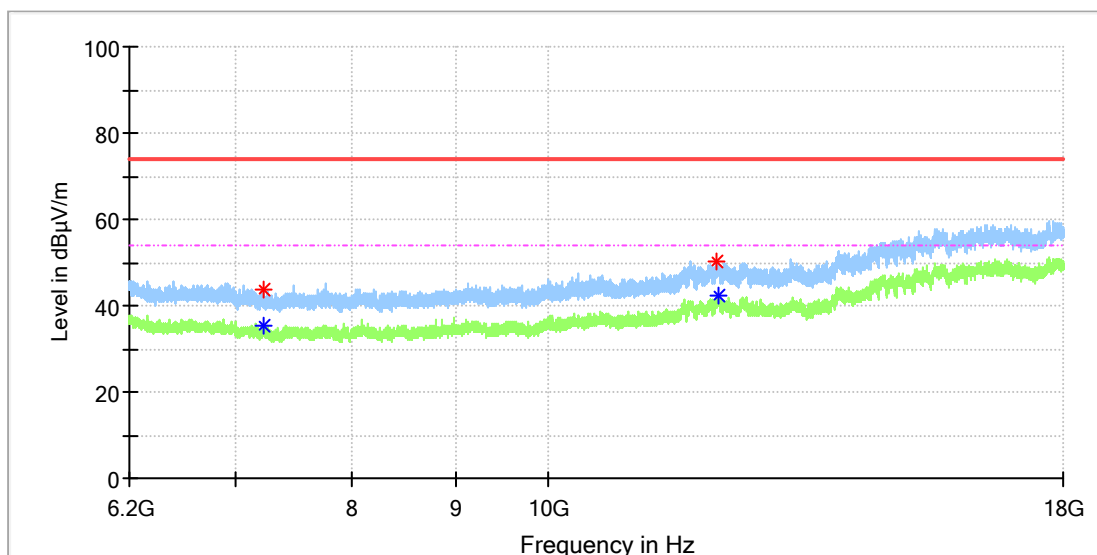
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	---	40.37	54.00	13.63	150.0	V	281.0	13.3
4960.500000	50.57	---	74.00	23.43	150.0	V	312.0	13.3

6.2GHz - 18GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

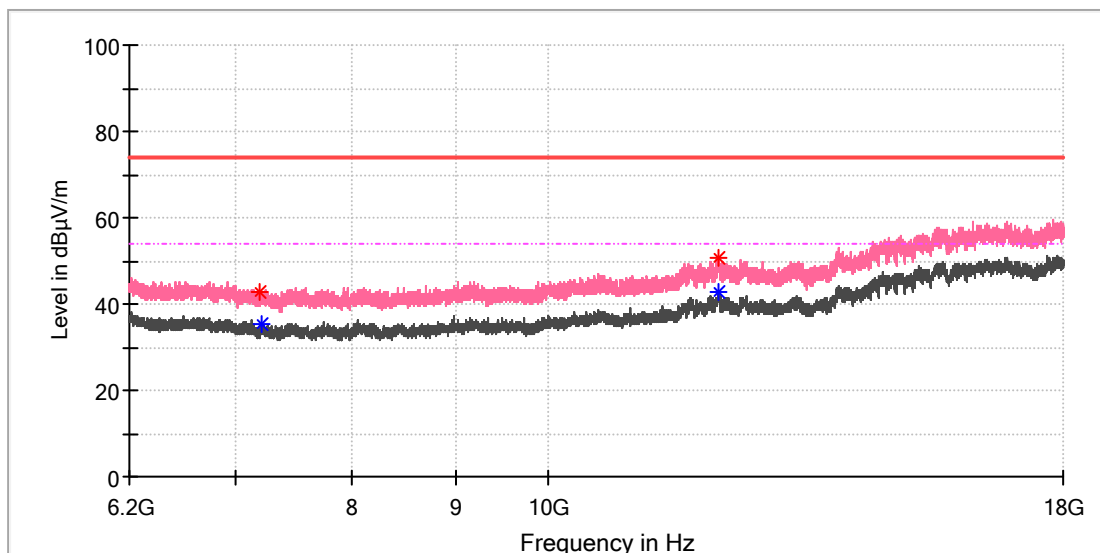


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7222.666667	---	35.25	54.00	18.75	150.0	H	189.0	8.7
7228.566667	43.81	---	74.00	30.19	150.0	H	309.0	8.7
12127.041667	50.13	---	74.00	23.87	150.0	H	44.0	16.1
12155.066667	---	42.51	54.00	11.49	150.0	H	113.0	16.5

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

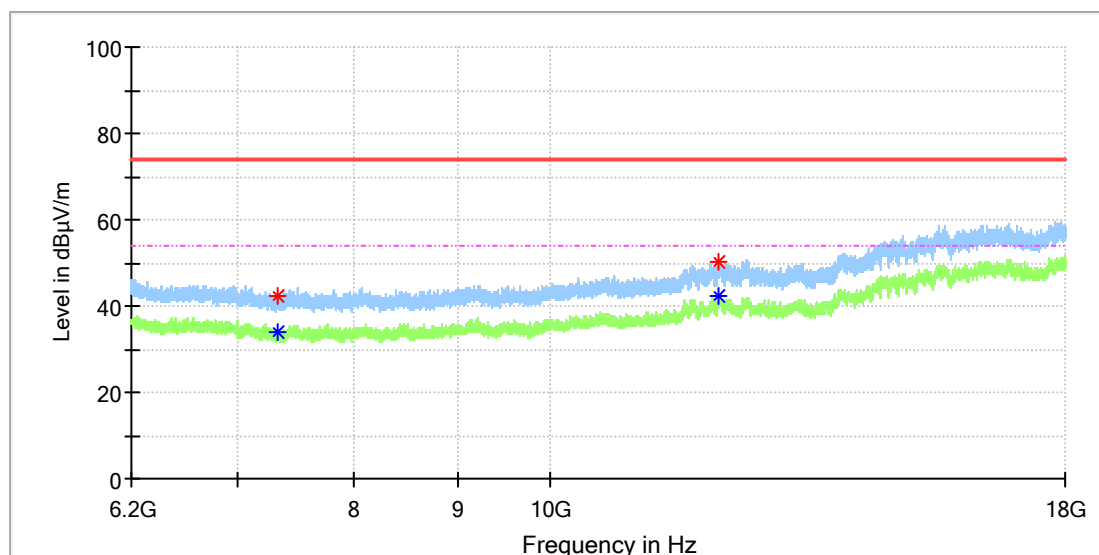


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7201.525000	42.60	---	74.00	31.40	150.0	V	104.0	8.8
7202.508333	---	35.17	54.00	18.83	150.0	V	114.0	8.8
12143.758333	50.88	---	74.00	23.12	150.0	V	168.0	16.6
12154.083333	---	42.71	54.00	11.29	150.0	V	0.0	16.5

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

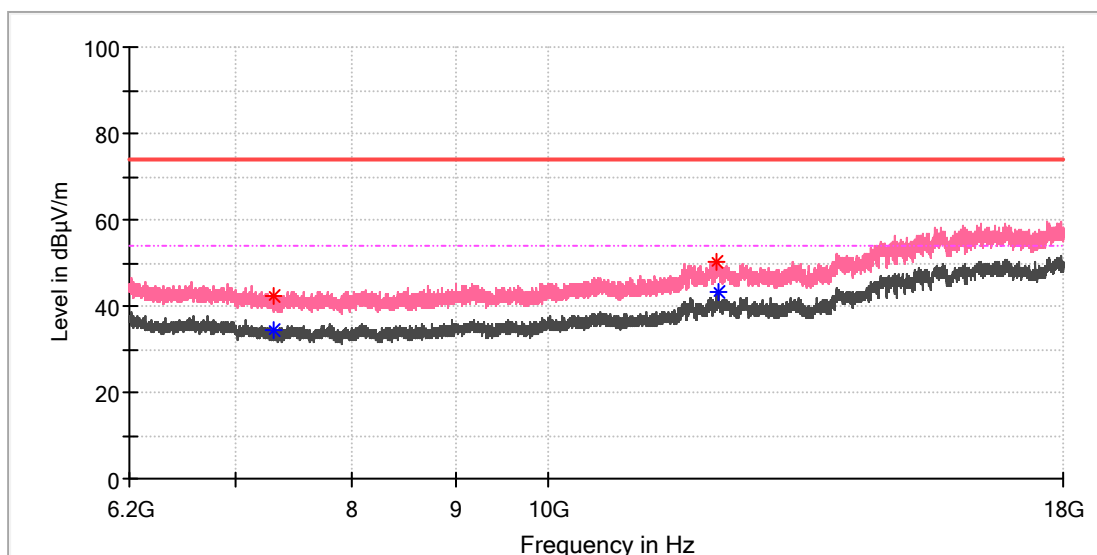


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7328.866667	---	34.09	54.00	19.91	150.0	H	76.0	8.1
7329.358333	42.19	---	74.00	31.81	150.0	H	354.0	8.1
12118.191667	50.26	---	74.00	23.74	150.0	H	300.0	15.9
12131.466667	---	42.49	54.00	11.51	150.0	H	0.0	16.2

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

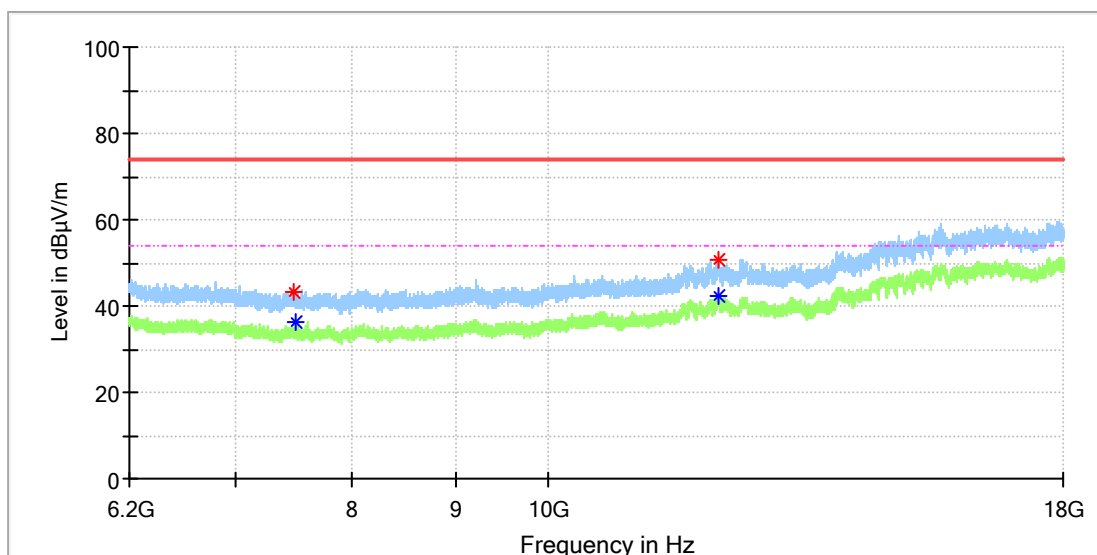


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7314.116667	---	34.45	54.00	19.55	150.0	V	214.0	8.2
7318.050000	42.47	---	74.00	31.53	150.0	V	60.0	8.2
12130.483333	50.44	---	74.00	23.56	150.0	V	137.0	16.2
12134.908333	---	43.33	54.00	10.67	150.0	V	170.0	16.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

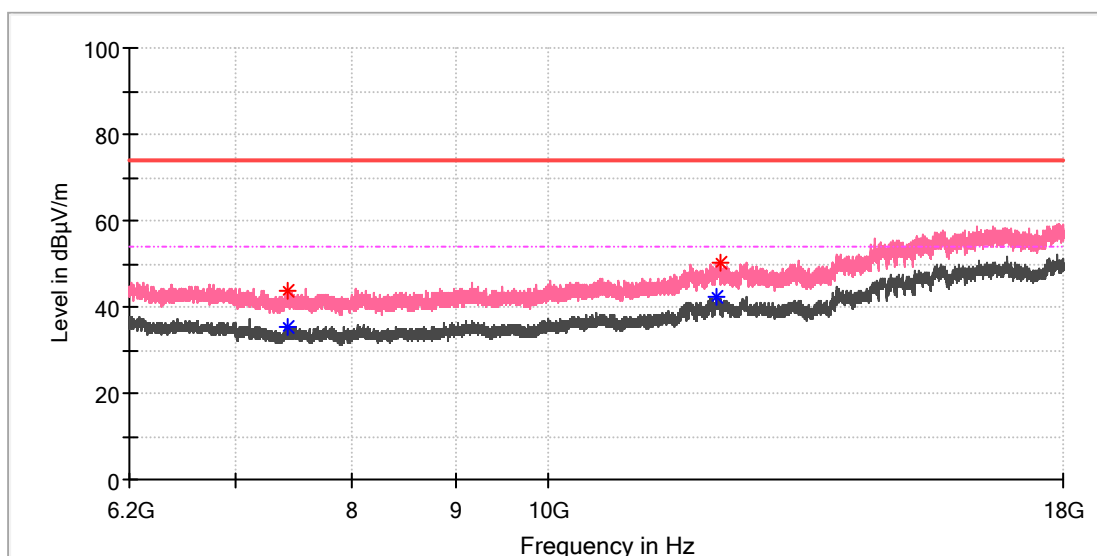


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7480.791667	43.41	---	74.00	30.59	150.0	H	10.0	8.7
7491.116667	---	36.35	54.00	17.65	150.0	H	175.0	8.7
12143.758333	50.48	---	74.00	23.52	150.0	H	219.0	16.6
12150.150000	---	42.15	54.00	11.85	150.0	H	197.0	16.7

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BR DH5_High channel
Order No./Sample No: A004208091-004
Test Voltage:: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



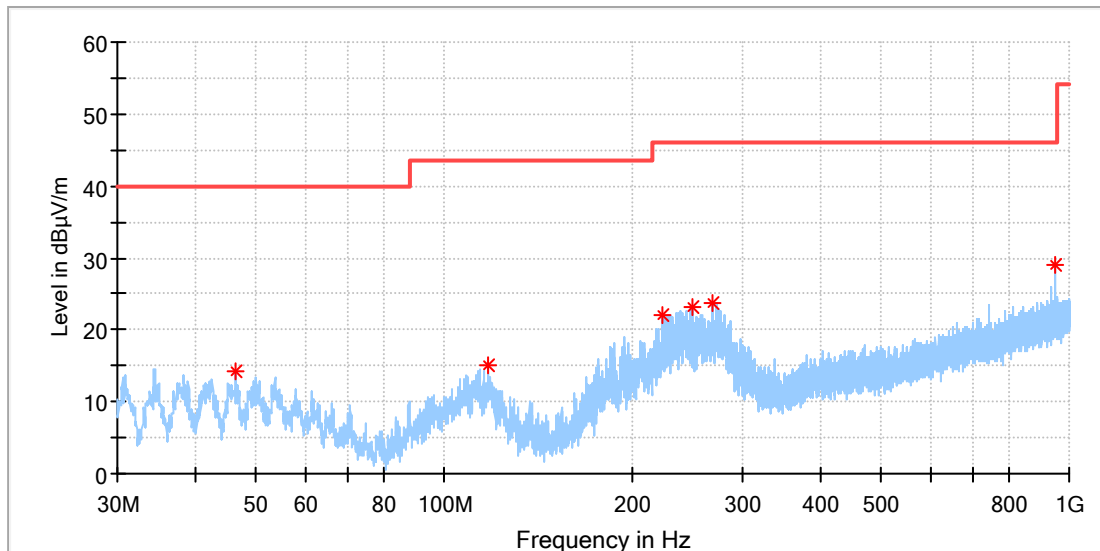
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7422.283333	---	35.32	54.00	18.68	150.0	V	234.0	8.4
7430.150000	43.69	---	74.00	30.31	150.0	V	268.0	8.4
12128.025000	---	42.54	54.00	11.46	150.0	V	256.0	16.2
12168.833333	50.44	---	74.00	23.56	150.0	V	0.0	15.8

**Bluetooth Low Energy mode
30MHz - 1GHz**

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

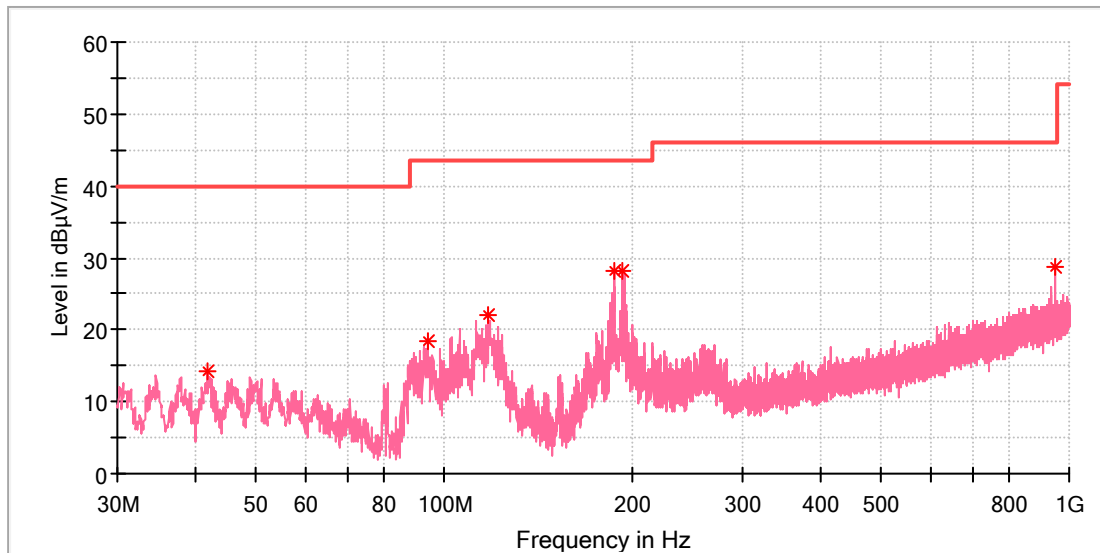


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.436111	14.23	40.00	25.77	100.0	H	19.0	-18.7
117.677222	14.96	43.50	28.54	100.0	H	5.0	-20.4
224.107778	22.16	46.00	23.84	100.0	H	271.0	-18.4
249.327778	23.07	46.00	22.93	100.0	H	286.0	-17.4
268.512222	23.78	46.00	22.22	100.0	H	178.0	-17.0
950.422222	28.96	46.00	17.04	100.0	H	165.0	-4.3

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BLE 1M_Mid channel
Order No/Sample No: A004208091-004
Test Voltage:: DC 3.3V
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



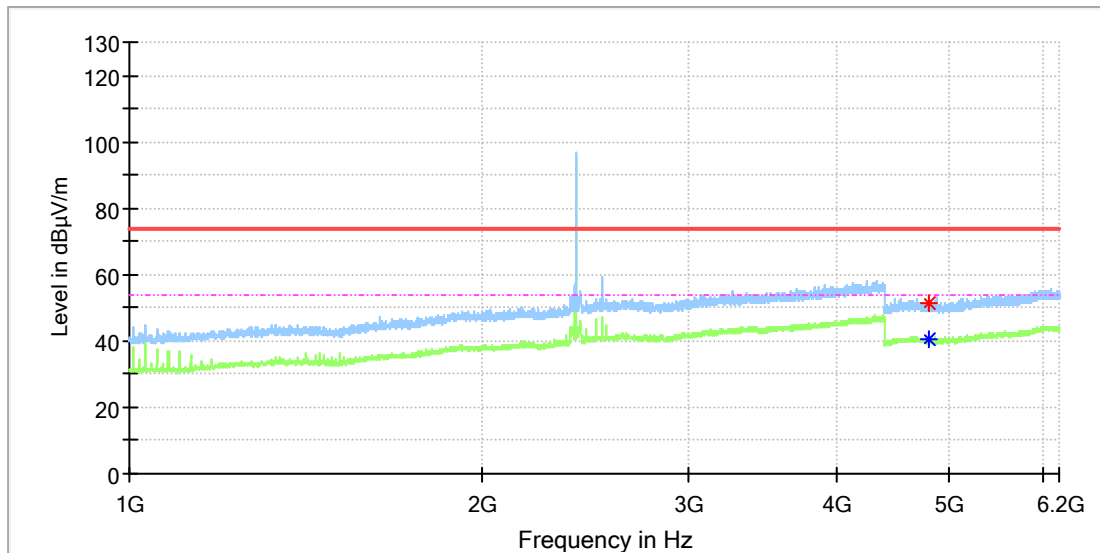
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.801667	14.37	40.00	25.63	100.0	V	0.0	-19.7
94.397222	18.44	43.50	25.06	100.0	V	310.0	-20.0
117.838889	22.10	43.50	21.40	100.0	V	163.0	-20.4
186.601111	28.13	43.50	15.37	100.0	V	272.0	-20.0
193.229444	28.32	43.50	15.18	100.0	V	0.0	-19.4
950.422222	28.80	46.00	17.20	100.0	V	117.0	-4.3

1GHz - 6.2GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

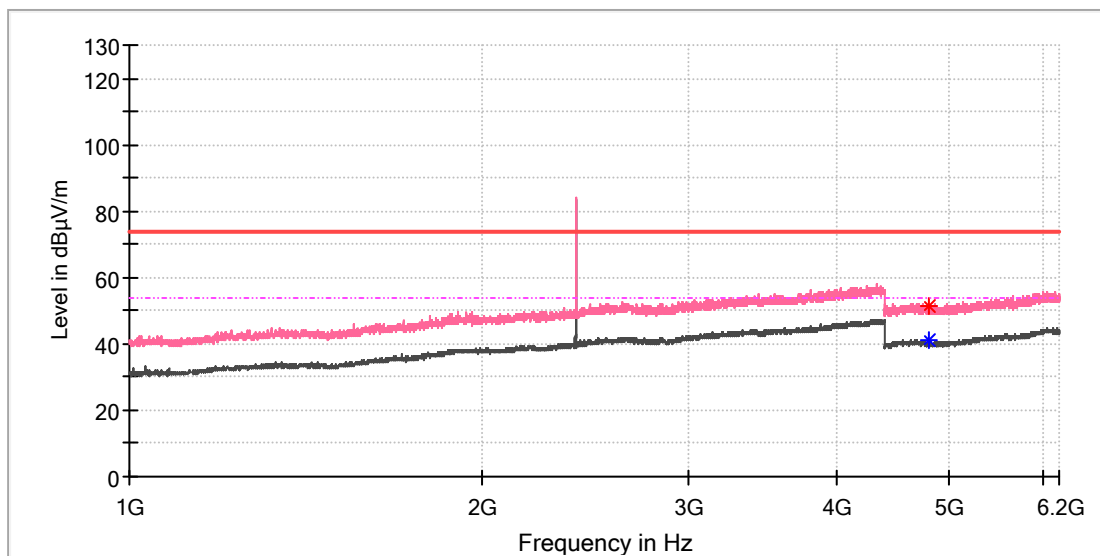


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.000000	---	40.35	54.00	13.65	150.0	H	163.0	13.3
4802.000000	51.16	---	74.00	22.84	150.0	H	163.0	13.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

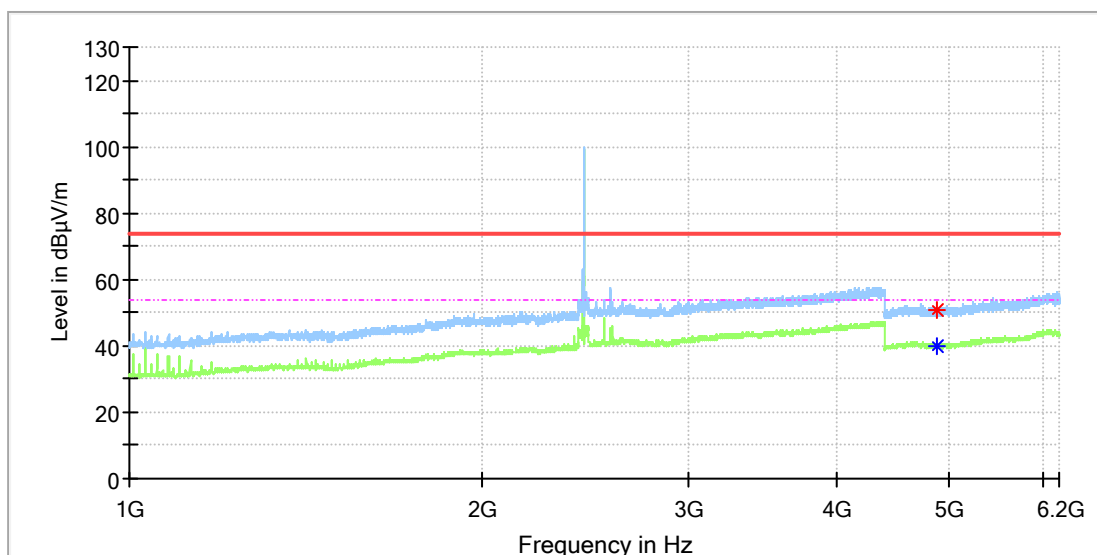


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	51.10	---	74.00	22.90	150.0	V	284.0	13.3
4805.500000	---	41.01	54.00	12.99	150.0	V	167.0	13.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

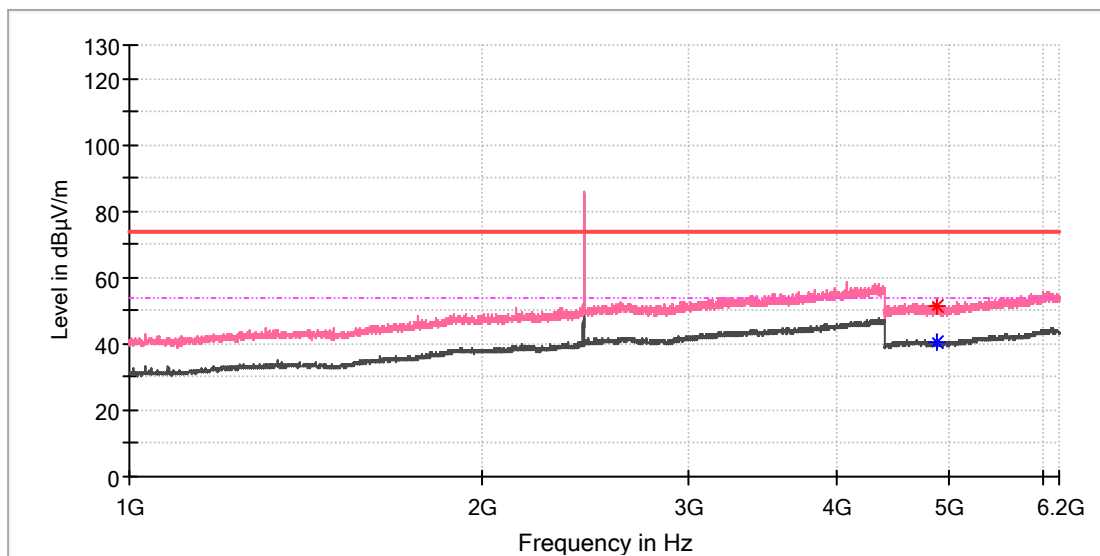


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.500000	---	40.16	54.00	13.84	150.0	H	117.0	13.3
4882.000000	50.65	---	74.00	23.35	150.0	H	0.0	13.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

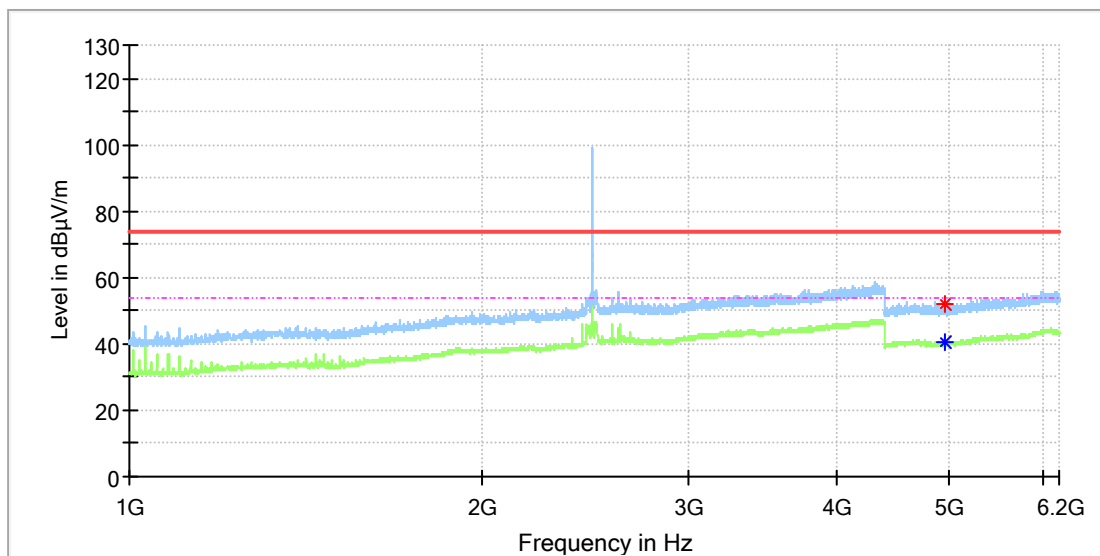


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4878.000000	---	40.45	54.00	13.55	150.0	V	294.0	13.3
4879.000000	51.15	---	74.00	22.85	150.0	V	250.0	13.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

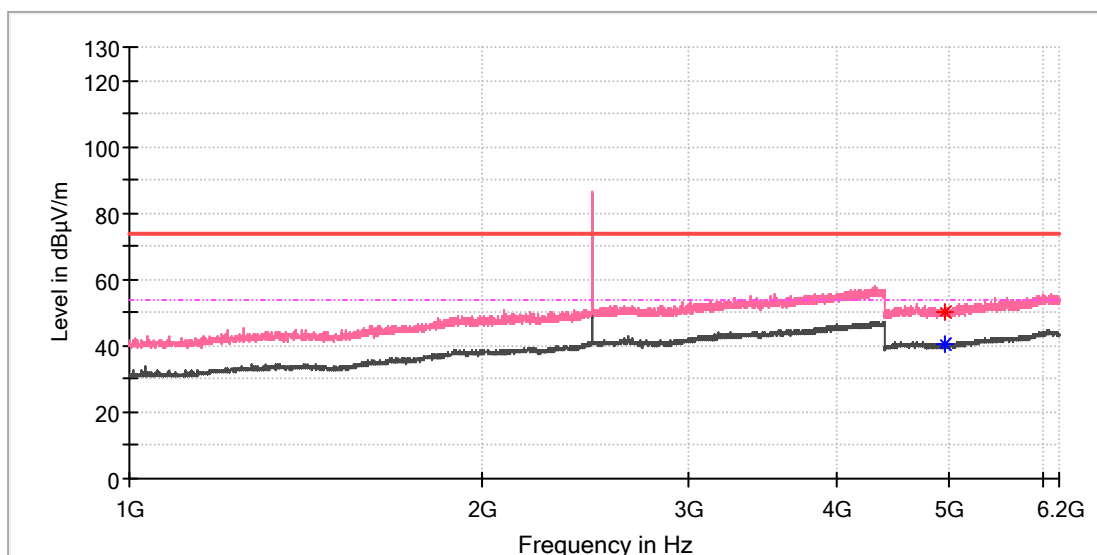


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.000000	52.00	---	74.00	22.00	150.0	H	0.0	13.3
4960.000000	---	40.57	54.00	13.43	150.0	H	203.0	13.3

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



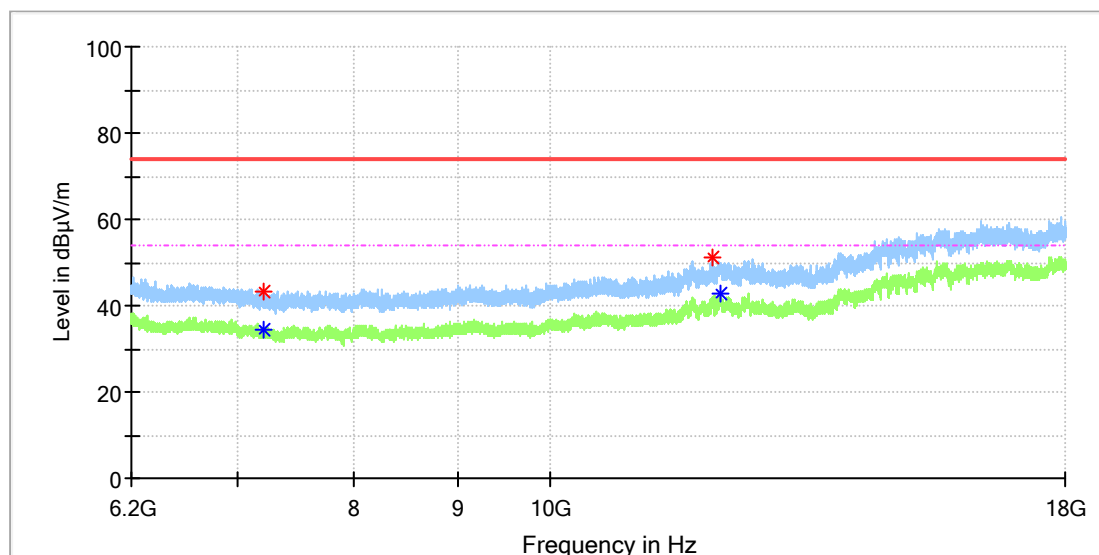
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4961.000000	50.32	---	74.00	23.68	150.0	V	150.0	13.3
4961.500000	---	40.46	54.00	13.54	150.0	V	150.0	13.3

6.2GHz - 18GHz

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

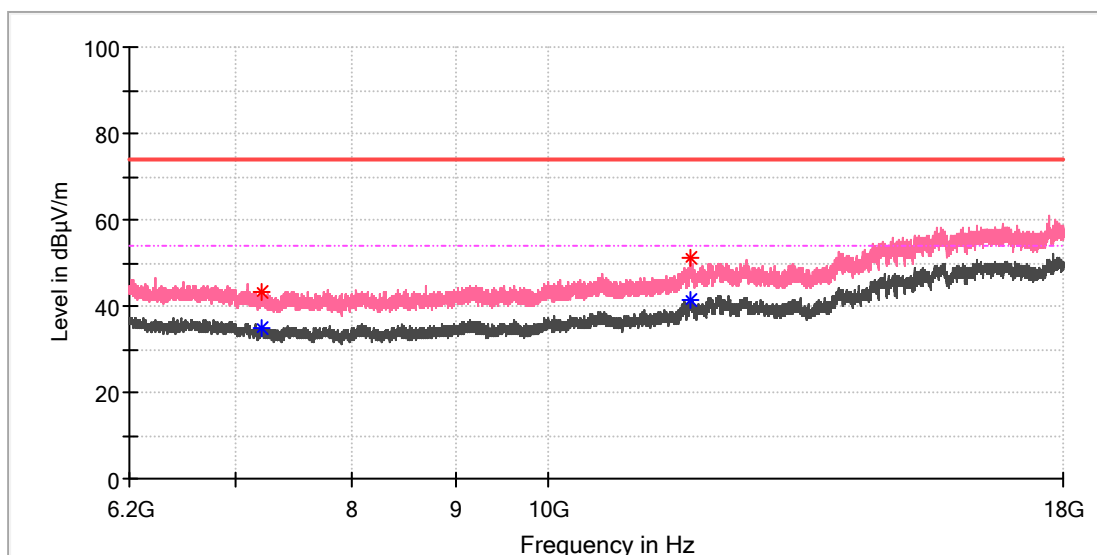


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	---	34.41	54.00	19.59	150.0	H	281.0	8.8
7206.933333	43.45	---	74.00	30.55	150.0	H	3.0	8.8
12040.016667	51.38	---	74.00	22.62	150.0	H	65.0	16.2
12132.450000	---	42.79	54.00	11.21	150.0	H	153.0	16.3

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BLE 1M_Low channel
Order No/Sample No: A004208091-004
Test Voltage:: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

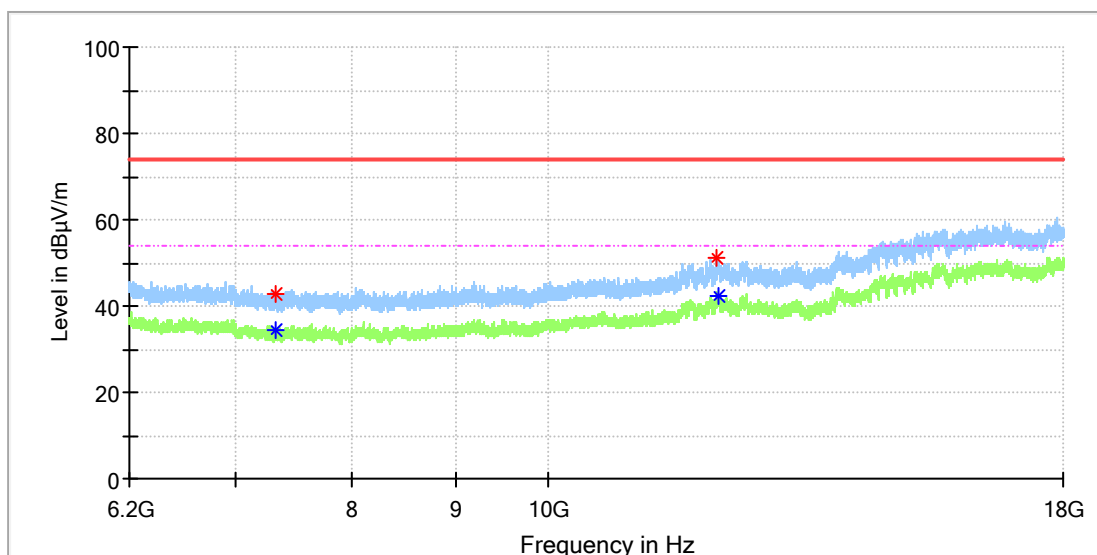


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7209.883333	43.20	---	74.00	30.80	150.0	V	282.0	8.7
7210.375000	---	34.83	54.00	19.17	150.0	V	238.0	8.7
11757.800000	---	41.46	54.00	12.54	150.0	V	347.0	15.4
11759.275000	50.97	---	74.00	23.03	150.0	V	347.0	15.4

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

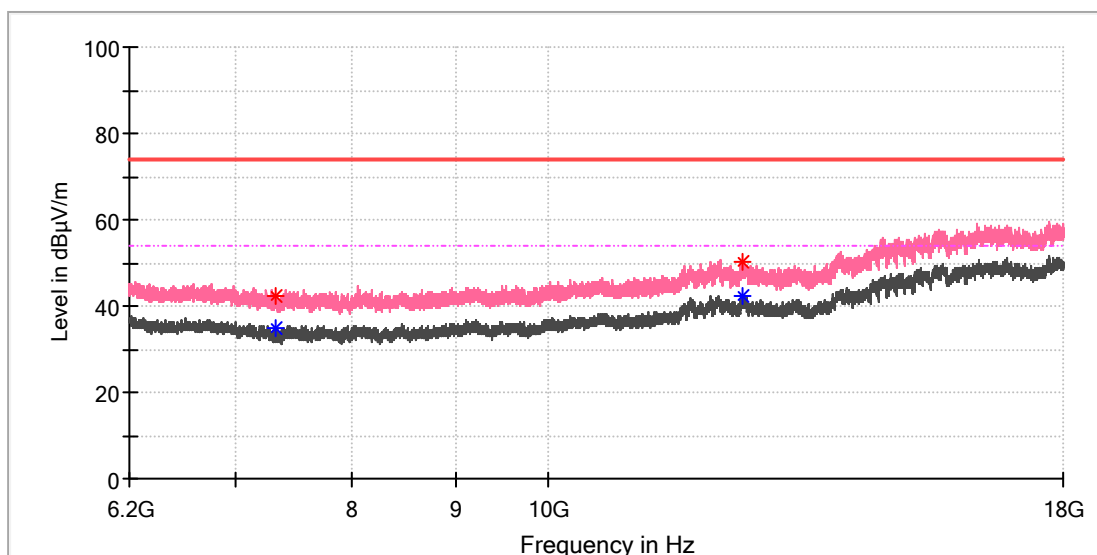


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.491667	42.81	---	74.00	31.19	150.0	H	93.0	8.2
7327.391667	---	34.32	54.00	19.68	150.0	H	82.0	8.1
12128.025000	51.20	---	74.00	22.80	150.0	H	272.0	16.2
12143.266667	---	42.15	54.00	11.85	150.0	H	343.0	16.6

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

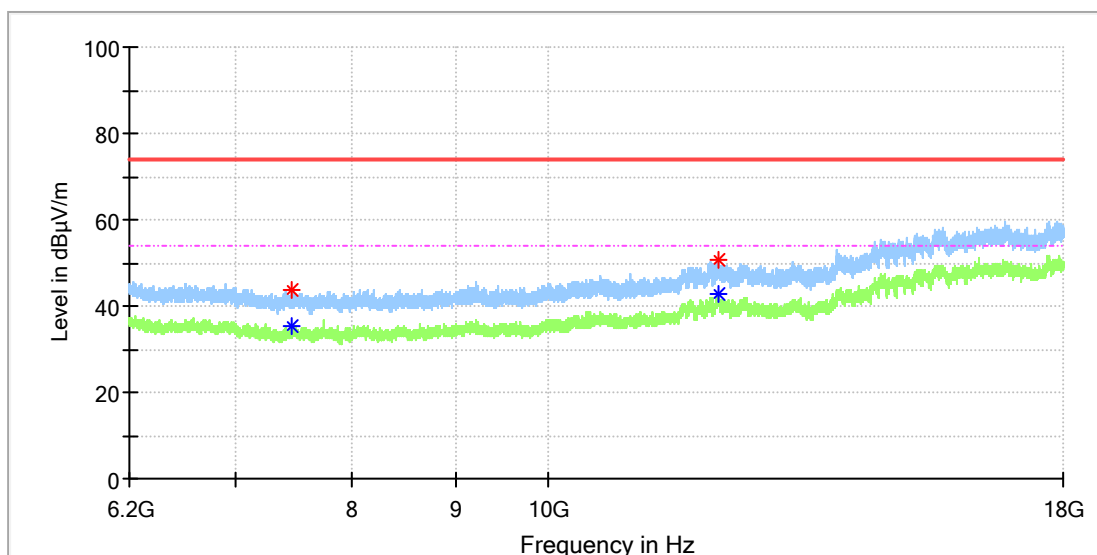


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7323.950000	---	34.75	54.00	19.25	150.0	V	194.0	8.2
7327.883333	42.51	---	74.00	31.49	150.0	V	325.0	8.1
12473.175000	50.12	---	74.00	23.88	150.0	V	31.0	16.1
12482.516667	---	42.42	54.00	11.58	150.0	V	315.0	16.1

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

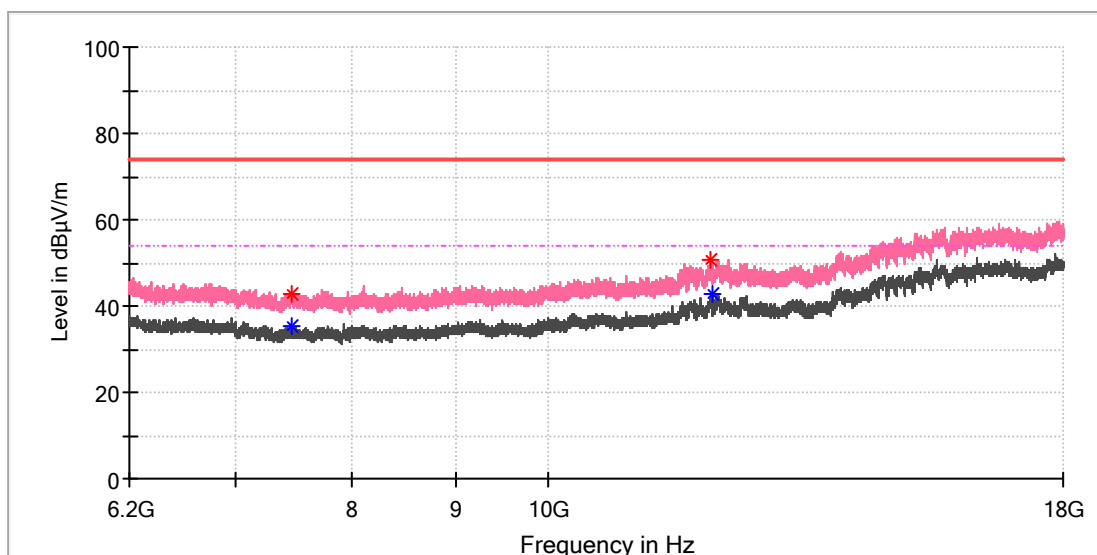


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7458.175000	---	35.48	54.00	18.52	150.0	H	232.0	8.5
7458.666667	43.68	---	74.00	30.32	150.0	H	155.0	8.5
12143.758333	---	42.68	54.00	11.32	150.0	H	71.0	16.6
12146.216667	50.78	---	74.00	23.22	150.0	H	118.0	16.6

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
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)
7454.733333	---	35.14	54.00	18.86	150.0	V	101.0	8.5
7458.175000	42.80	---	74.00	31.20	150.0	V	56.0	8.5
12040.016667	50.51	---	74.00	23.49	150.0	V	23.0	16.2
12054.766667	---	42.58	54.00	11.42	150.0	V	168.0	15.9

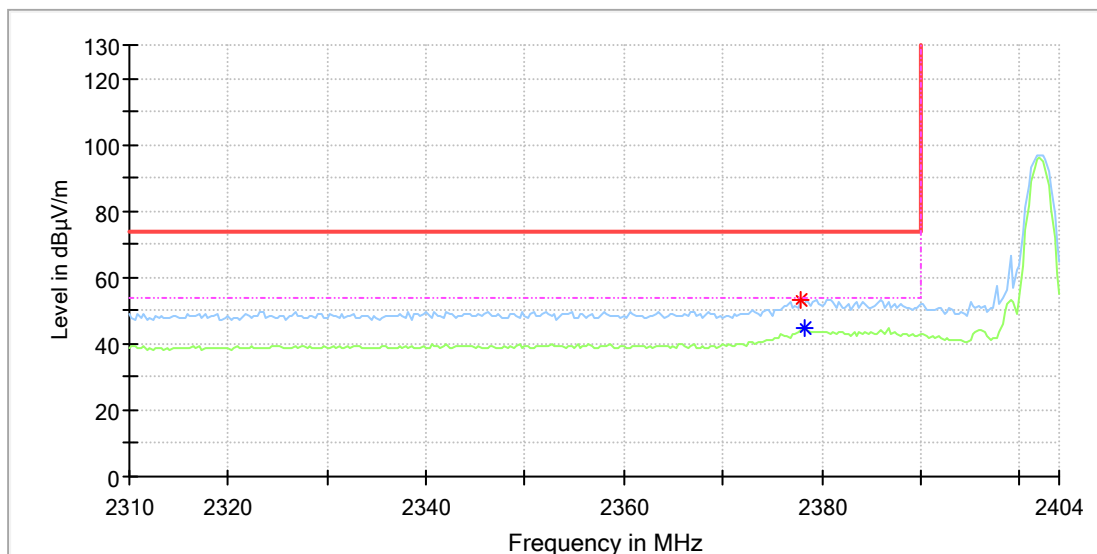
Appendix B.2: Test Results of Radiated Emissions in Restricted Bands

Classical Bluetooth mode
Low channel

Test Report

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

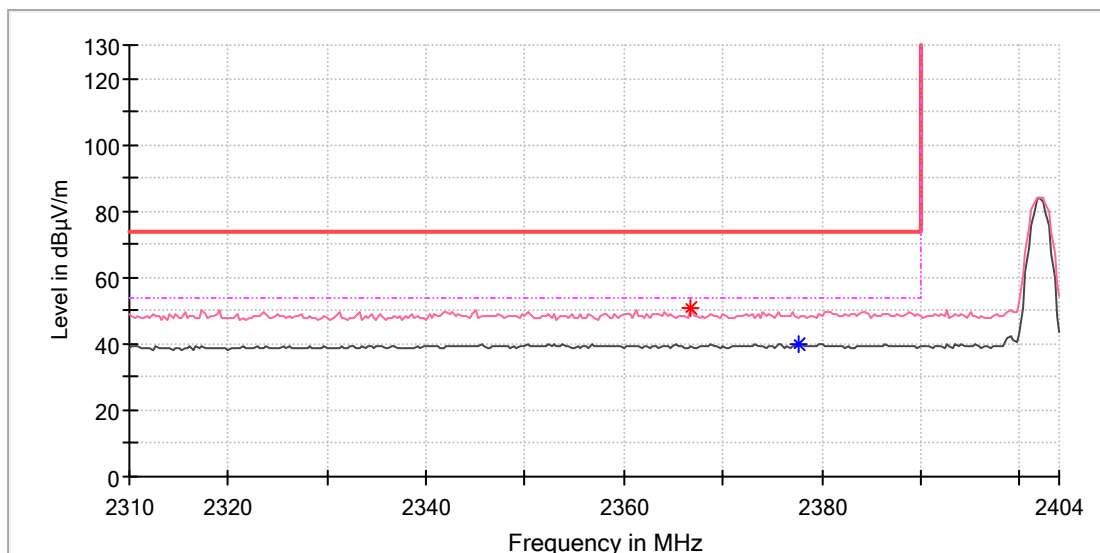


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.941177	53.35	---	74.00	20.65	150.0	H	36.0	8.5
2378.235294	---	44.56	54.00	9.44	150.0	H	22.0	8.5

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

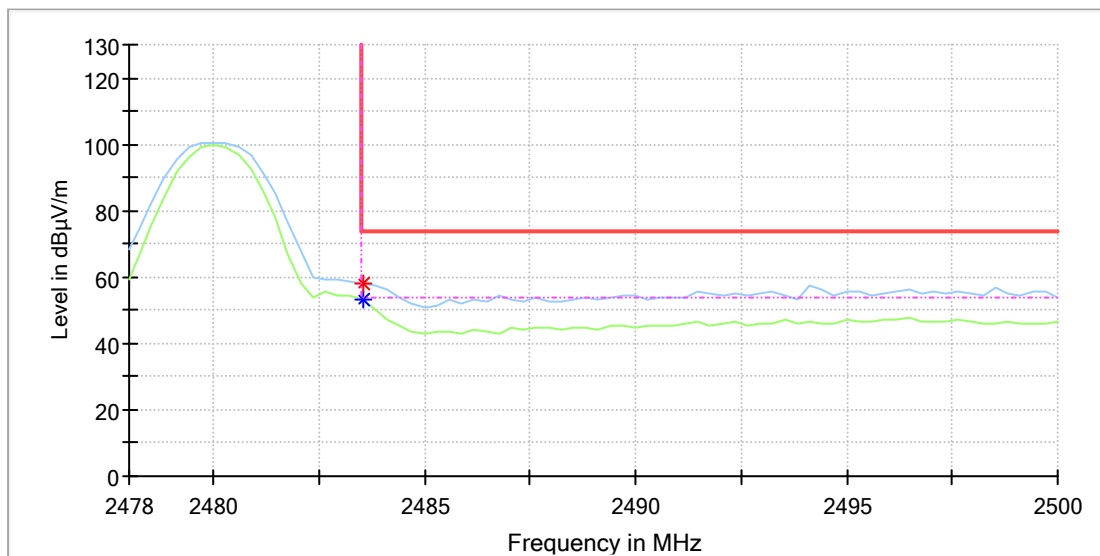
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2366.764706	50.72	---	74.00	23.28	150.0	V	217.0	8.5
2377.647059	---	40.02	54.00	13.98	150.0	V	0.0	8.5

High channel

Test Report

EUT Information

EUT Name: Bluetooth Module
Model: AC6951
Test Mode: BR DH5_High channel
Order No/Sample No: A004208091-004
Test Voltage:: DC 5V From USB
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

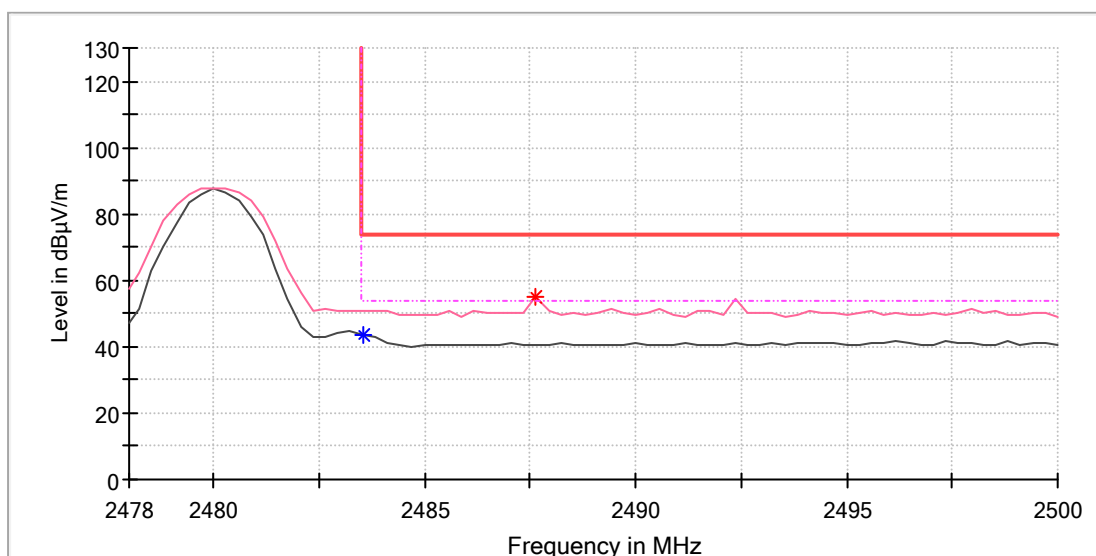


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	58.35	---	74.00	15.65	150.0	H	76.0	9.0
2483.529412	---	51.70	54.00	2.30	150.0	H	76.0	9.0

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BR DH5_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



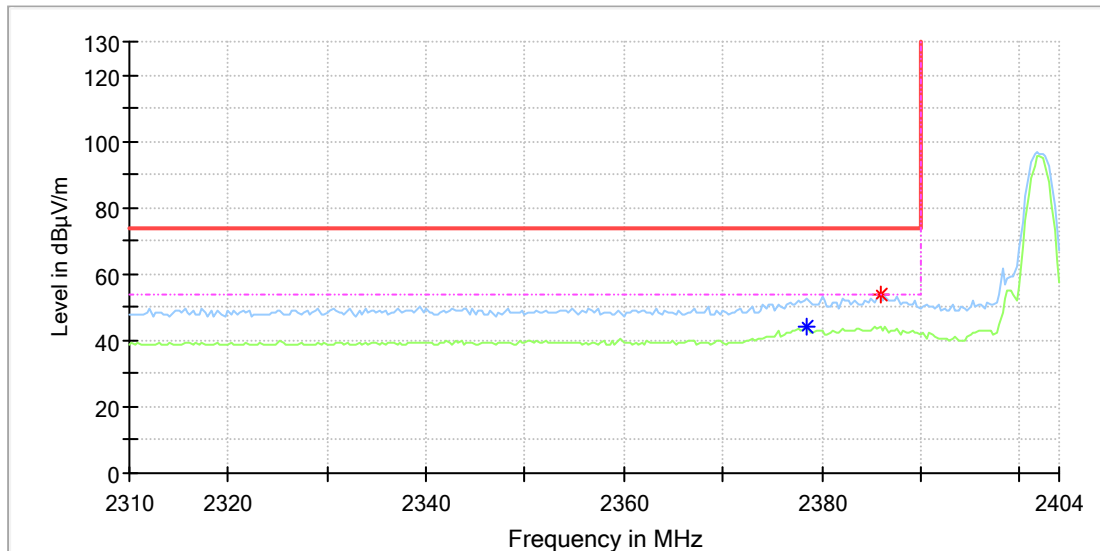
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	43.25	54.00	10.75	150.0	V	173.0	9.0
2487.647059	54.95	---	74.00	19.05	150.0	V	0.0	9.0

Bluetooth Low Energy mode, 1 Mbps Low channel

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

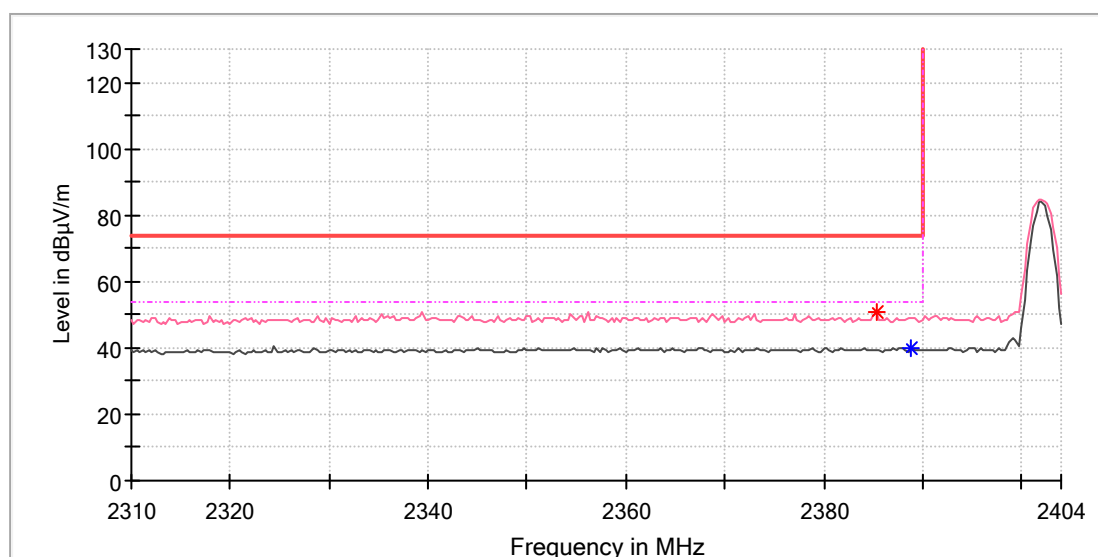


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2378.529412	---	44.34	54.00	9.66	150.0	H	36.0	8.5
2385.882353	53.85	---	74.00	20.15	150.0	H	47.0	8.5

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
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)
2385.294118	50.91	---	74.00	23.09	150.0	V	203.0	8.5
2388.823529	---	40.02	54.00	13.98	150.0	V	290.0	8.5

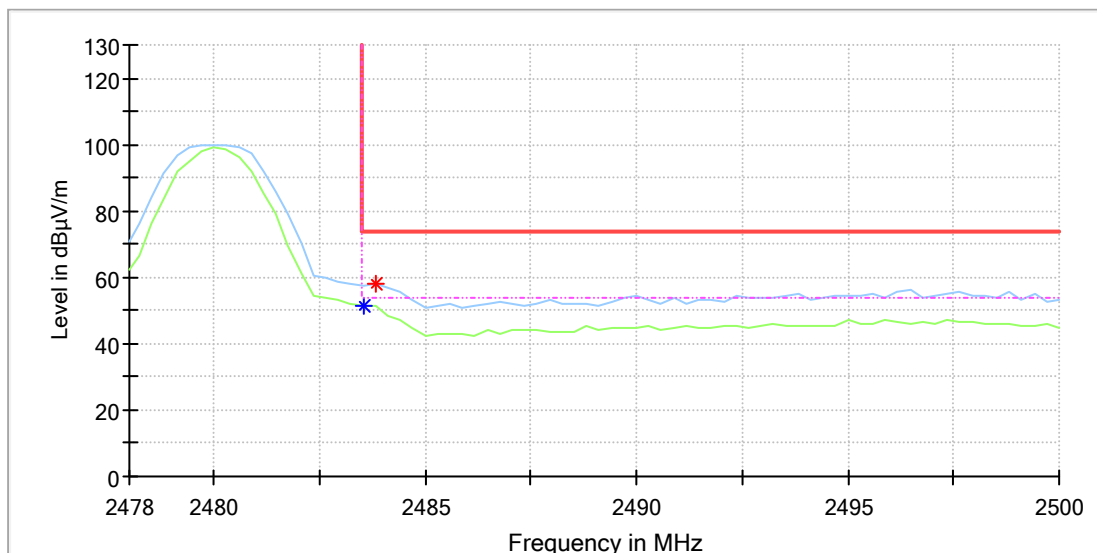
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
900 000 000	900 000 000	900 000 000	900 000 000	900 000 000 900 000 000			900 000	900 000

High channel

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

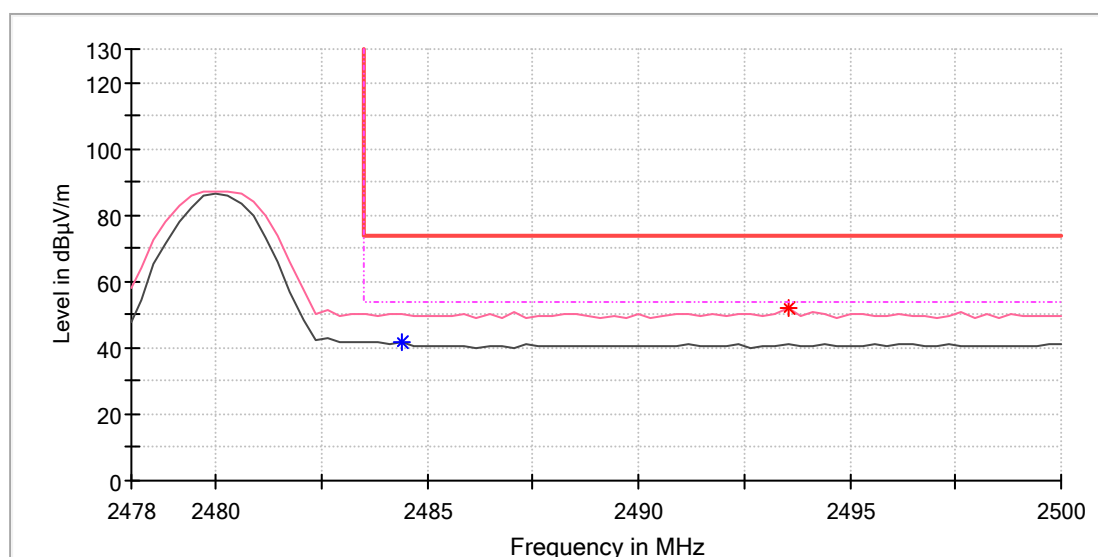


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	51.60	54.00	2.40	150.0	H	47.0	9.0
2483.823529	57.98	---	74.00	16.02	150.0	H	47.0	9.0

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 1M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
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)
2484.411765	---	41.64	54.00	12.36	150.0	V	224.0	9.0
2493.529412	51.89	---	74.00	22.11	150.0	V	183.0	9.0

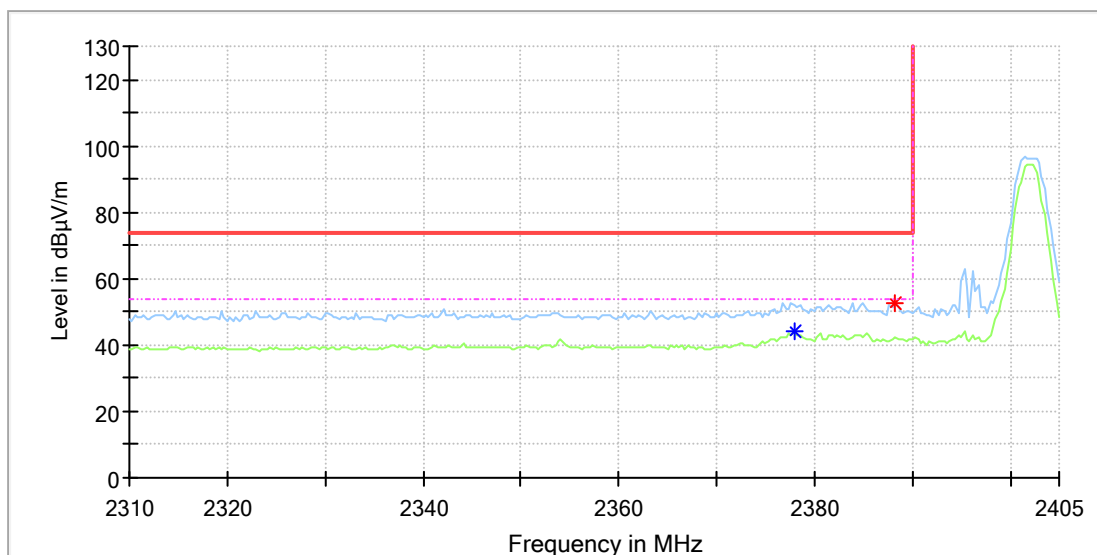
Final Result

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

Bluetooth Low Energy mode, 2 Mbps Low channel

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

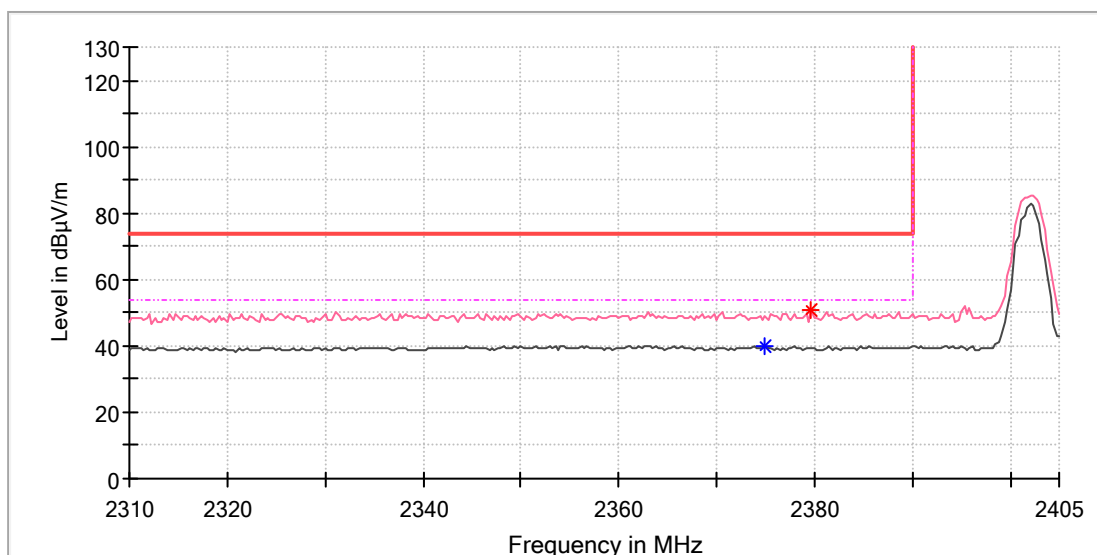


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.941177	---	43.86	54.00	10.14	150.0	H	51.0	8.5
2388.235294	52.89	---	74.00	21.11	150.0	H	51.0	8.5

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



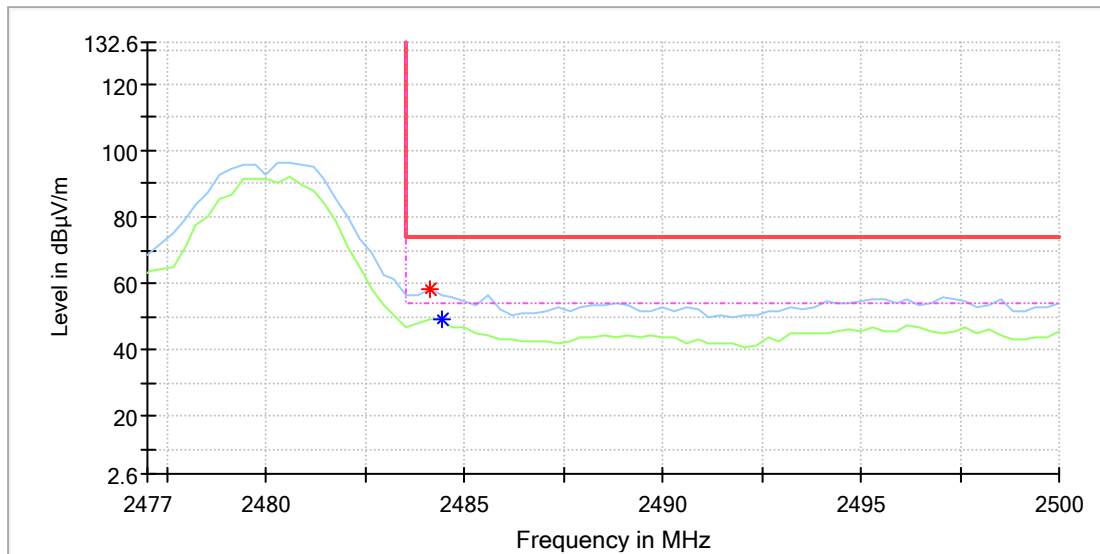
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.000000	---	40.00	54.00	14.00	150.0	V	102.0	8.5
2379.705882	50.51	---	74.00	23.49	150.0	V	2.0	8.5

High channel

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 2M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

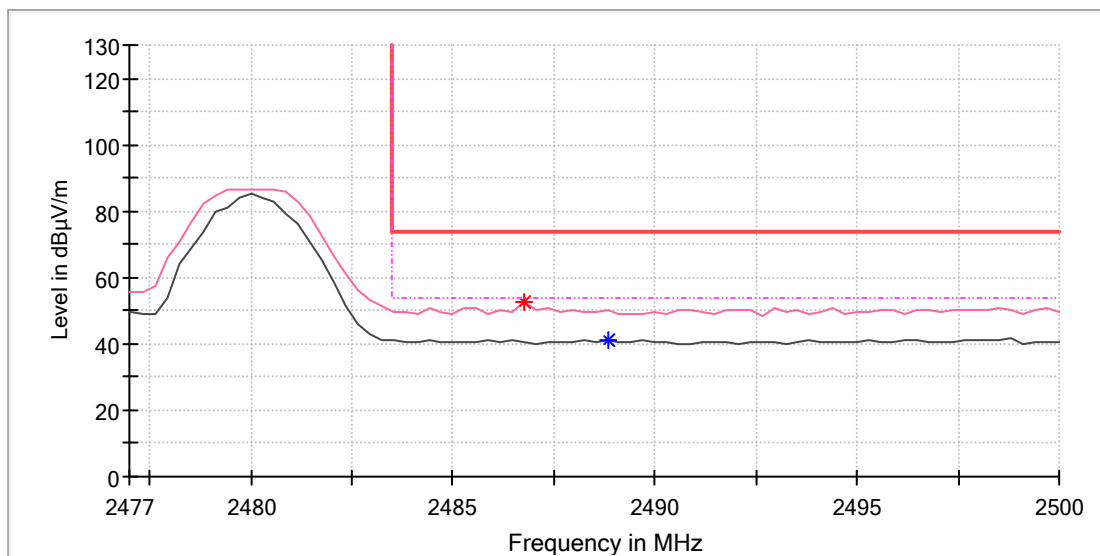


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	58.03	---	74.00	15.97	150.0	H	39.0	9.0
2484.411765	---	49.01	54.00	4.99	150.0	H	39.0	9.0

EUT Information

EUT Name:	Bluetooth Module
Model:	AC6951
Test Mode:	BLE 2M_High channel
Order No/Sample No:	A004208091-004
Test Voltage::	DC 5V From USB
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



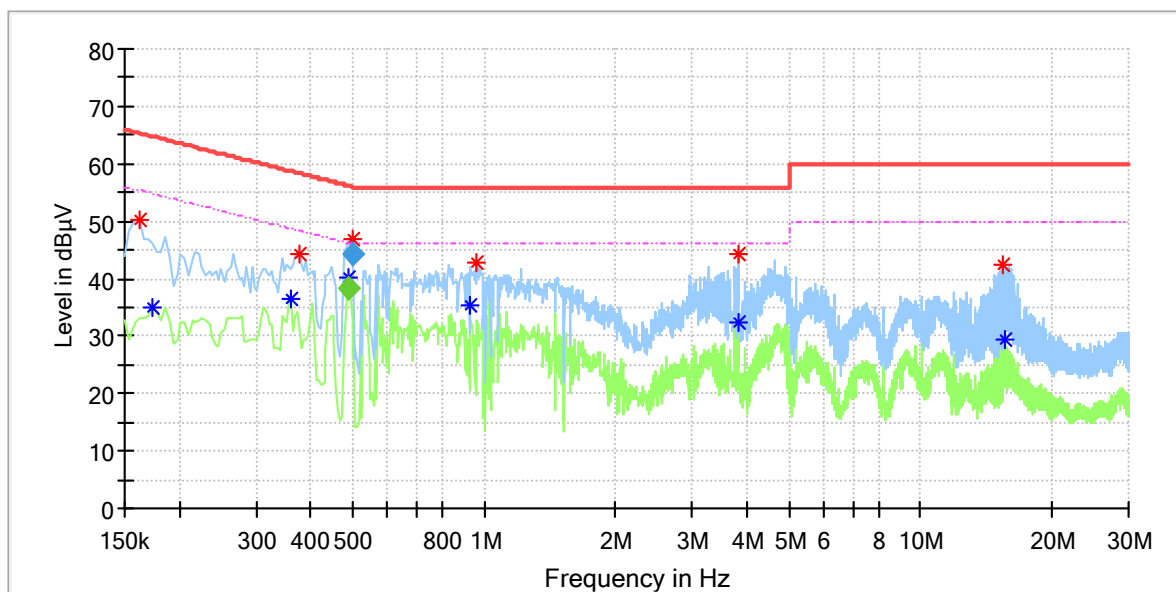
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.764706	52.65	---	74.00	21.35	150.0	V	53.0	9.0
2488.823529	---	41.12	54.00	12.88	150.0	V	282.0	9.0

Appendix B.2: Test Results of Conducted Emissions

EUT Information

EUT Name: Bluetooth module
Model: AC6951
Test Mode: Bluetooth operating
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Shower Dai / Gary Chen
Tem./Hum./Pressure: 24.9°C/51.8%/101kPa
Remark: SR1



Critical Freqs

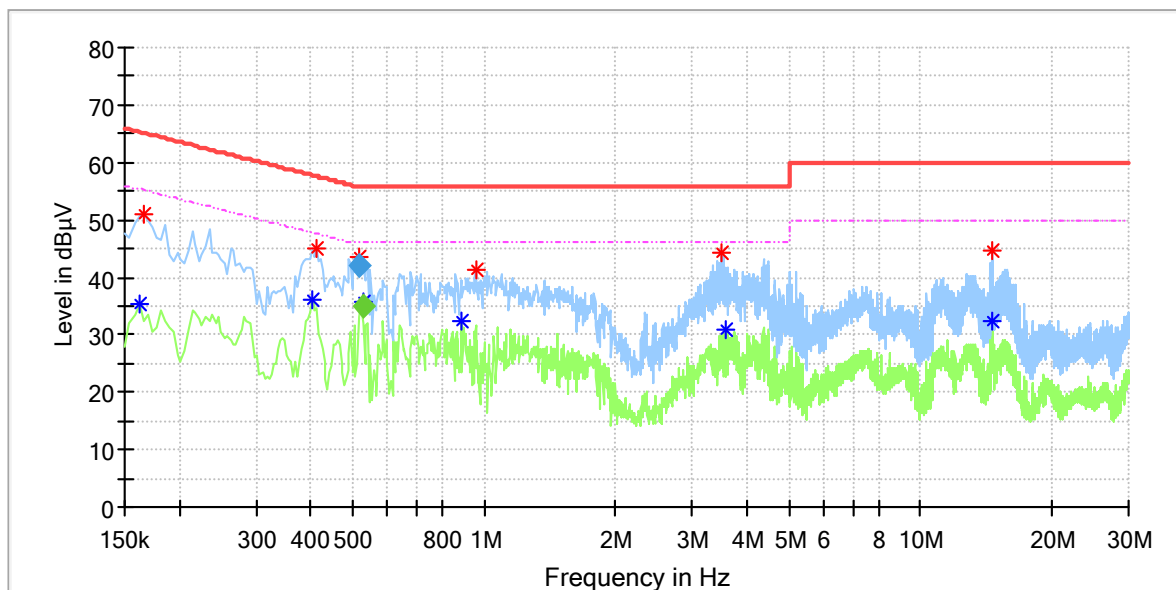
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.162000	50.37	---	65.36	14.99	L1	9.7
0.174000	---	34.98	54.77	19.78	L1	9.7
0.362000	---	36.47	48.68	12.22	L1	9.9
0.378000	44.45	---	58.32	13.87	L1	9.9
0.488500	---	40.32	46.24	5.92	L1	9.9
0.499500	46.93	---	56.24	9.31	L1	9.9
0.928000	---	35.45	46.00	10.55	L1	9.7
0.964000	42.70	---	56.00	13.30	L1	9.7
3.824000	---	32.54	46.00	13.46	L1	10.0
3.824000	44.39	---	56.00	11.61	L1	10.0
15.456000	42.46	---	60.00	17.54	L1	10.1
15.556000	---	29.23	50.00	20.77	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.488500	---	38.14	46.19	8.05	1000.0	9.000	L1	9.9
0.499500	44.43	---	56.01	11.58	1000.0	9.000	L1	9.9

EUT Information

EUT Name: Bluetooth module
Model: AC6951
Test Mode: Bluetooth operating
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Shower Dai / Gary Chen
Tem./Hum./Pressure: 24.9°C/51.8%/101kPa
Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.162000	---	35.47	55.36	19.89	N	9.8
0.166000	50.83	---	65.16	14.33	N	9.8
0.402000	---	35.94	47.81	11.88	N	9.7
0.414000	44.86	---	57.57	12.71	N	9.7
0.518500	43.58	---	56.00	12.42	N	9.7
0.530500	---	35.54	46.00	10.46	N	9.7
0.888000	---	32.28	46.00	13.72	N	9.7
0.956000	41.40	---	56.00	14.60	N	9.6
3.504000	44.35	---	56.00	11.65	N	10.0
3.592000	---	30.93	46.00	15.07	N	10.0
14.628000	---	32.32	50.00	17.68	N	10.1
14.628000	44.50	---	60.00	15.50	N	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.518500	42.00	---	56.00	14.00	1000.0	9.000	N	9.7
0.530500	---	34.94	46.00	11.06	1000.0	9.000	N	9.7

Appendix C: Test Results of with host

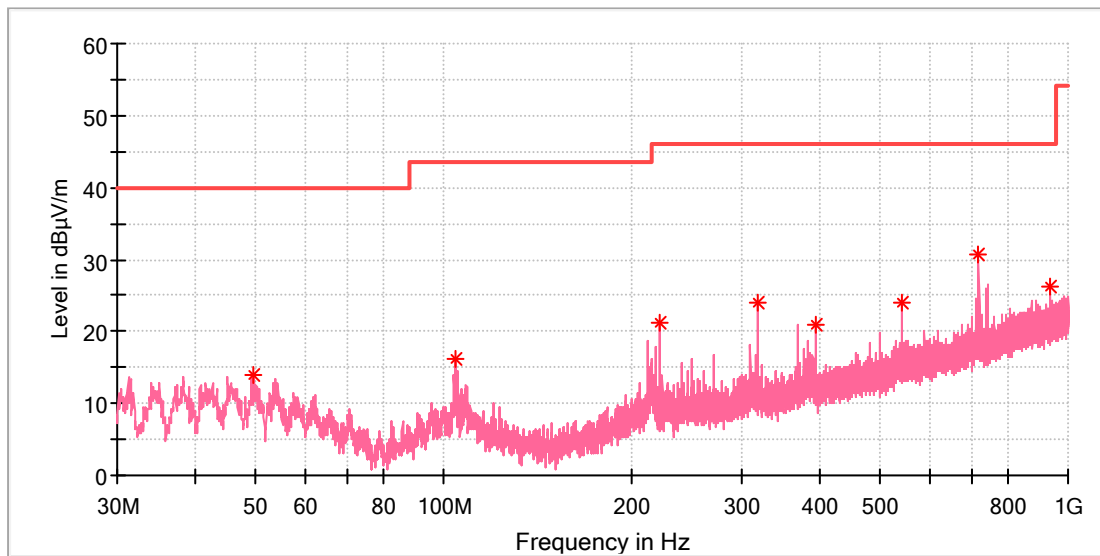
APPENDIX C: TEST RESULTS OF WITH HOST	1
APPENDIX C.1: TEST RESULTS OF CO-LOCATED TRANSMITTING IN HOST SDR-40	2
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Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz 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 SDR-40

EUT Information

EUT Name:	Audio Video Amplifier
Model:	SDR-40
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004214153-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

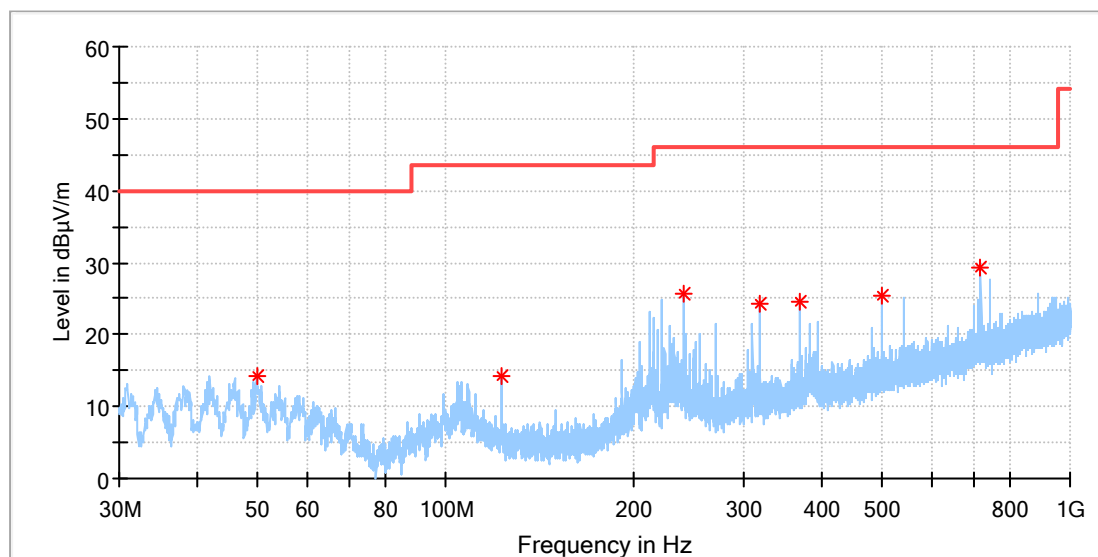


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.723333	13.84	40.00	26.16	100.0	V	273.0	-18.4
104.528333	16.16	43.50	27.34	100.0	V	99.0	-18.9
221.197778	21.35	46.00	24.65	100.0	V	273.0	-18.6
319.491111	24.13	46.00	21.87	100.0	V	243.0	-15.7
393.211111	21.00	46.00	25.00	100.0	V	21.0	-13.9
540.758889	23.97	46.00	22.03	100.0	V	14.0	-11.0
719.939444	30.64	46.00	15.36	100.0	V	207.0	-7.6
938.405000	26.16	46.00	19.84	100.0	V	75.0	-4.4

EUT Information

EUT Name:	Audio Video Amplifier
Model:	SDR-40
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004214153-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

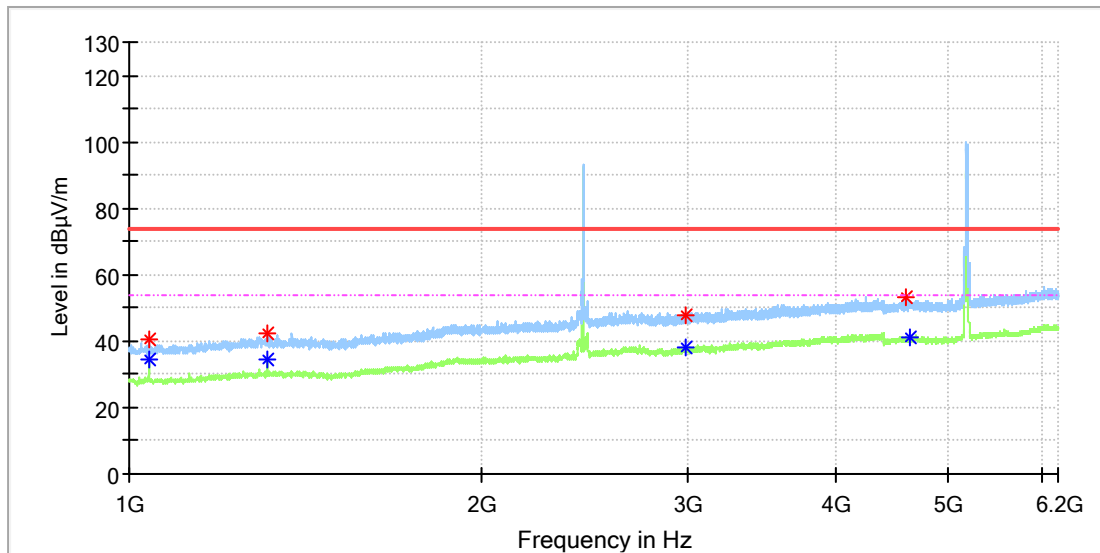


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.777222	14.36	40.00	25.64	100.0	H	116.0	-18.4
122.850556	14.35	43.50	29.15	100.0	H	280.0	-21.2
239.951111	25.60	46.00	20.40	100.0	H	102.0	-17.7
319.491111	24.20	46.00	21.80	100.0	H	274.0	-15.7
368.637778	24.44	46.00	21.56	100.0	H	81.0	-14.5
499.965000	25.28	46.00	20.72	100.0	H	191.0	-11.9
719.939444	29.33	46.00	16.67	100.0	H	4.0	-7.6

EUT Information

EUT Name: Audio Video Amplifier
Model: SDR-40
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No: A004214153-002
Test Voltage:: AC 120V/60Hz
Remark: Temp 23 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

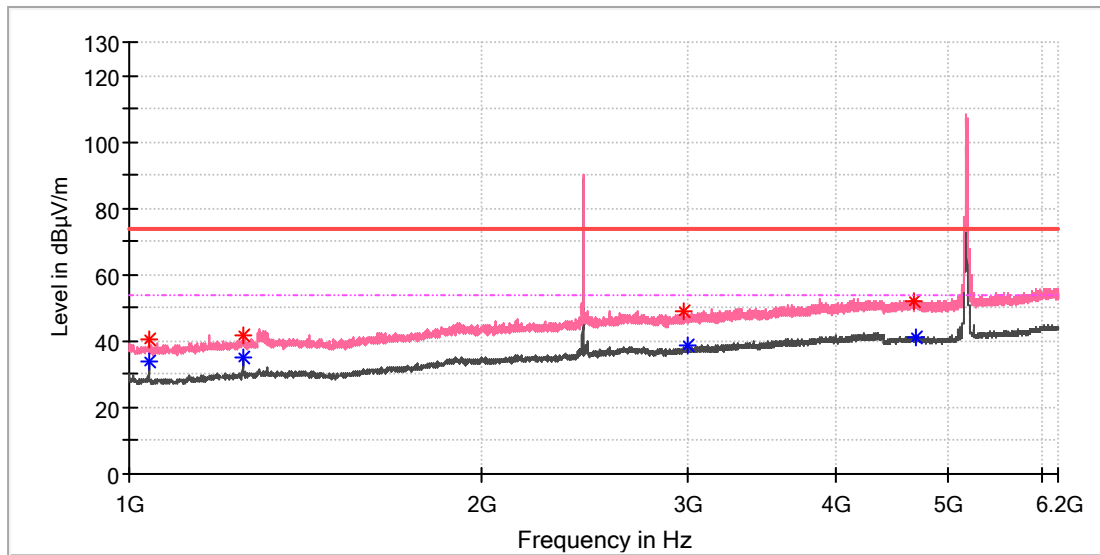


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1039.500000	40.24	---	74.00	33.76	150.0	H	30.0	0.5
1039.500000	---	34.25	54.00	19.75	150.0	H	30.0	0.5
1312.000000	42.07	---	74.00	31.93	150.0	H	286.0	2.8
1312.000000	---	34.23	54.00	19.77	150.0	H	286.0	2.8
2986.500000	47.78	---	74.00	26.22	150.0	H	30.0	10.2
2989.500000	---	38.27	54.00	15.73	150.0	H	115.0	10.2
4594.000000	53.11	---	74.00	20.89	150.0	H	359.0	13.5
4635.000000	---	41.27	54.00	12.73	150.0	H	169.0	13.5

EUT Information

EUT Name: Audio Video Amplifier
Model: SDR-40
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No: A004214153-002
Test Voltage:: AC 120V/60Hz
Remark: Temp 23 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

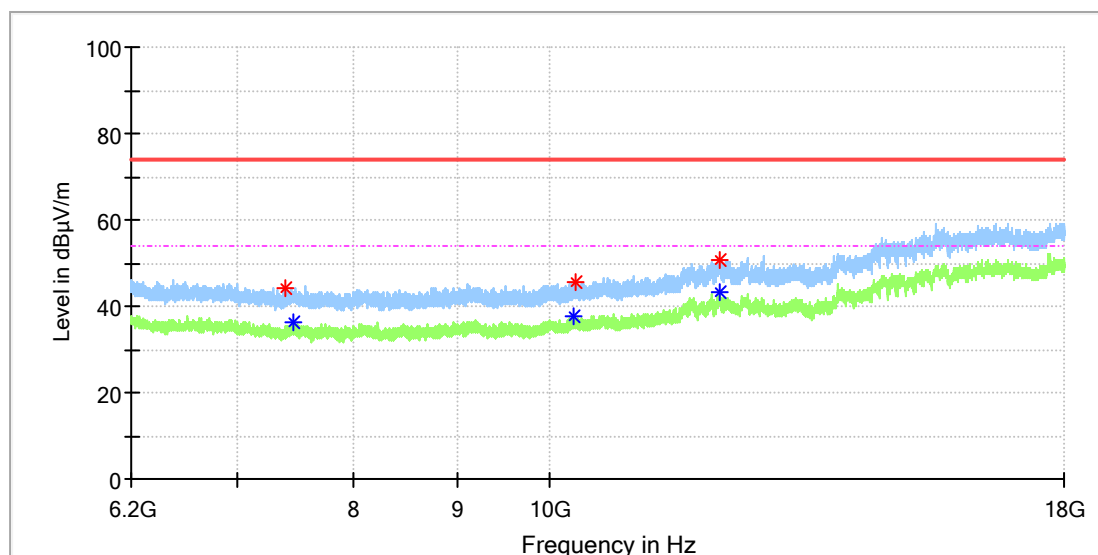


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1039.000000	---	34.09	54.00	19.91	150.0	V	14.0	0.5
1039.500000	40.51	---	74.00	33.49	150.0	V	135.0	0.5
1249.500000	41.98	---	74.00	32.02	150.0	V	172.0	2.6
1249.500000	---	35.15	54.00	18.85	150.0	V	172.0	2.6
2969.000000	48.71	---	74.00	25.29	150.0	V	358.0	10.1
2990.000000	---	38.59	54.00	15.41	150.0	V	317.0	10.2
4676.500000	52.05	---	74.00	21.95	150.0	V	22.0	13.5
4687.500000	---	41.36	54.00	12.64	150.0	V	289.0	13.5

EUT Information

EUT Name:	Audio Video Amplifier
Model:	SDR-40
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004214153-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

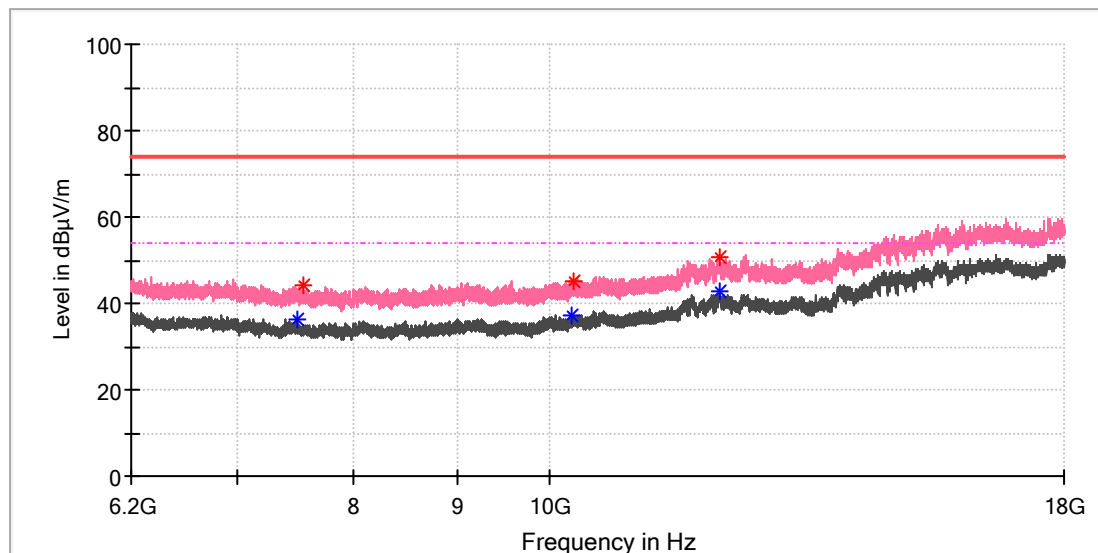


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7398.683333	44.22	---	74.00	29.78	150.0	H	215.0	8.3
7463.091667	---	36.39	54.00	17.61	150.0	H	124.0	8.6
10289.683333	---	37.60	54.00	16.40	150.0	H	25.0	11.6
10297.058333	45.65	---	74.00	28.35	150.0	H	4.0	11.6
12152.116667	50.87	---	74.00	23.13	150.0	H	102.0	16.6
12154.575000	---	43.34	54.00	10.66	150.0	H	4.0	16.5

EUT Information

EUT Name:	Audio Video Amplifier
Model:	SDR-40
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004214153-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



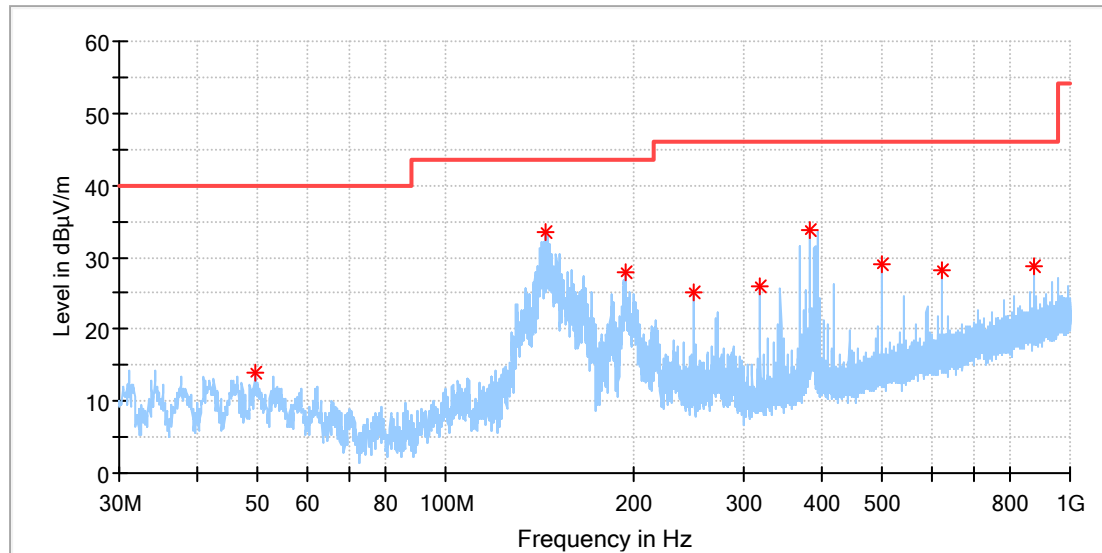
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7496.525000	---	36.19	54.00	17.81	150.0	V	149.0	8.7
7539.300000	44.09	---	74.00	29.91	150.0	V	251.0	8.7
10258.216667	---	37.08	54.00	16.92	150.0	V	262.0	11.5
10289.191667	45.25	---	74.00	28.75	150.0	V	194.0	11.6
12144.741667	50.83	---	74.00	23.17	150.0	V	304.0	16.6
12155.066667	---	42.82	54.00	11.18	150.0	V	358.0	16.5

Appendix C.2: Test Results of co-located transmitting in host SDP-60

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-60
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004196209-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

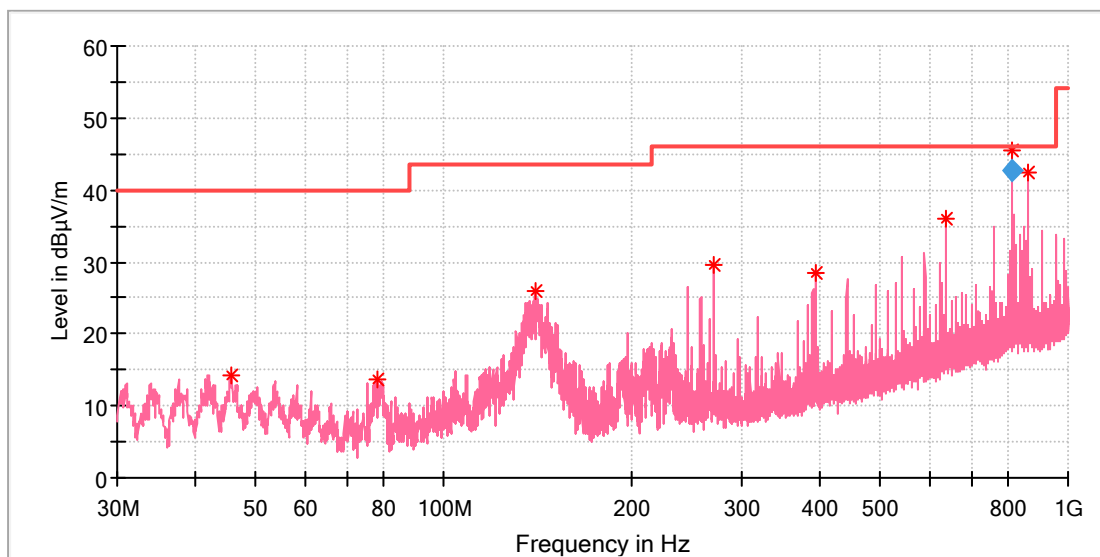


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.669444	14.08	40.00	25.92	100.0	H	289.0	-18.4
144.406111	33.47	43.50	10.03	100.0	H	266.0	-22.4
193.660556	27.77	43.50	15.73	100.0	H	52.0	-19.4
249.974444	25.10	46.00	20.90	100.0	H	82.0	-17.4
319.491111	26.06	46.00	19.94	100.0	H	203.0	-15.7
383.996111	33.72	46.00	12.28	100.0	H	259.0	-14.1
499.965000	29.15	46.00	16.85	100.0	H	210.0	-11.9
625.041111	28.05	46.00	17.95	100.0	H	234.0	-9.2
875.031667	28.64	46.00	17.36	100.0	H	36.0	-5.1

EUT Information

EUT Name: Audio Video Processor
Model: SDP-60
Test Mode: BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No: A004196209-002
Test Voltage:: AC 120V/60Hz
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

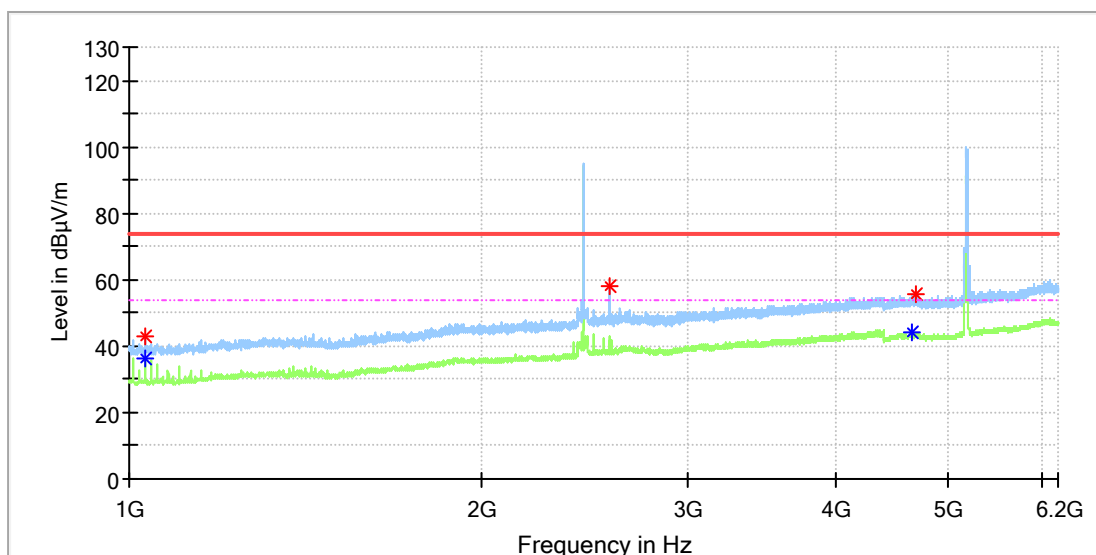


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.789444	14.26	40.00	25.74	100.0	V	290.0	-18.8
78.176667	13.79	40.00	26.21	100.0	V	147.0	-23.5
139.879444	25.99	43.50	17.51	100.0	V	139.0	-22.4
270.344444	29.44	46.00	16.56	100.0	V	4.0	-16.9
393.211111	28.33	46.00	17.67	100.0	V	275.0	-13.9
638.998333	35.89	46.00	10.11	100.0	V	68.0	-9.0
811.011667	45.54	46.00	0.46	100.0	V	355.0	-6.0
860.158333	42.34	46.00	3.66	100.0	V	0.0	-5.3

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-60
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004196209-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

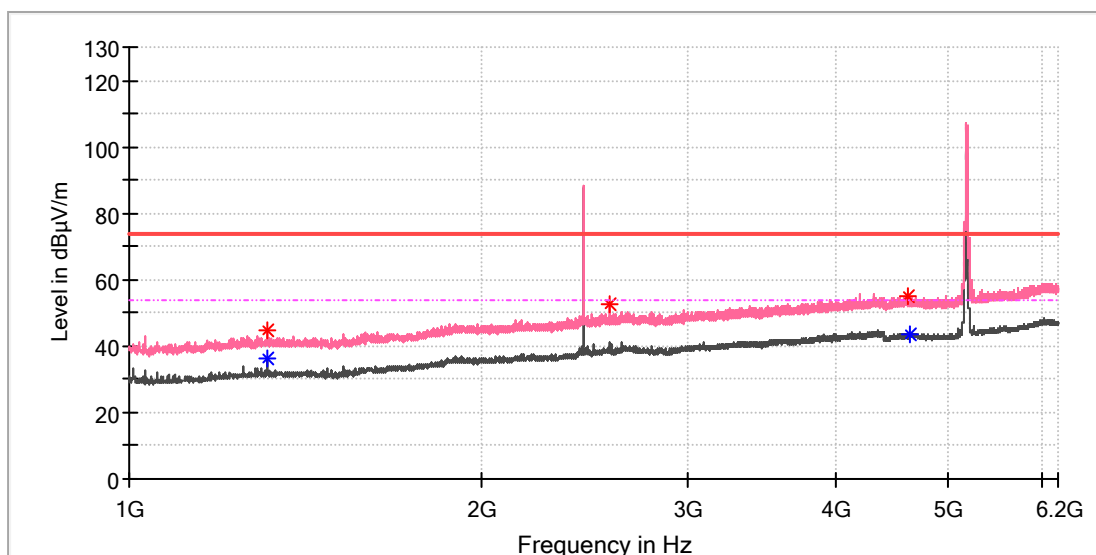


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1031.500000	---	36.33	54.00	17.67	150.0	H	255.0	0.4
1031.500000	43.10	---	74.00	30.90	150.0	H	255.0	0.4
2568.000000	58.16	---	68.20	10.04	150.0	H	115.0	9.5
4646.000000	---	43.92	54.00	10.08	150.0	H	269.0	13.5
4692.500000	55.65	---	74.00	18.35	150.0	H	1.0	13.5

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-60
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004196209-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

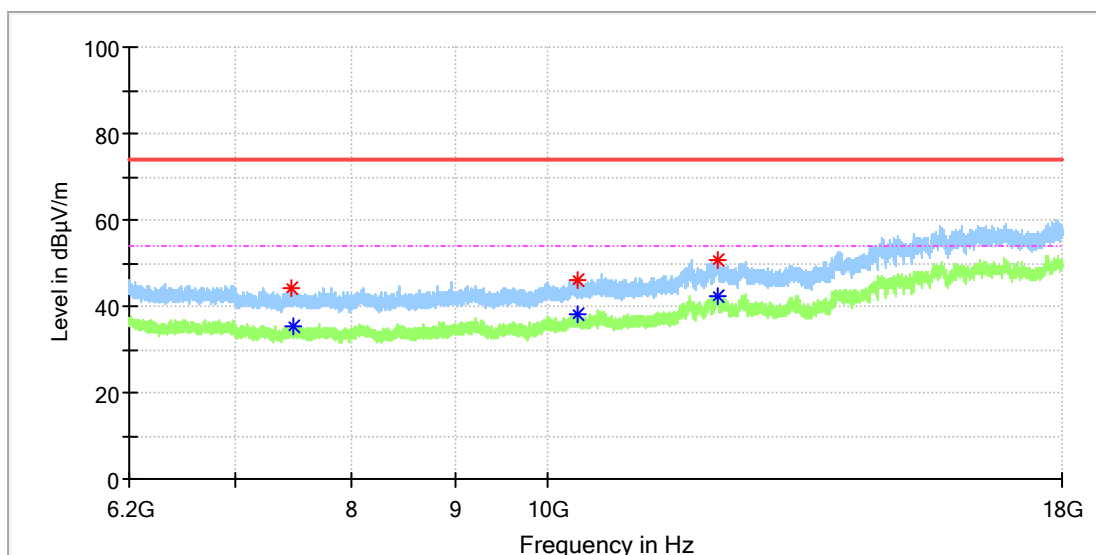


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1312.000000	---	36.04	54.00	17.96	150.0	V	262.0	2.8
1312.000000	44.80	---	74.00	29.20	150.0	V	262.0	2.8
2566.500000	52.66	---	68.20	15.54	150.0	V	150.0	9.5
4618.500000	54.97	---	74.00	19.03	150.0	V	4.0	13.5
4634.000000	---	43.71	54.00	10.29	150.0	V	332.0	13.5

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-60
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004196209-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

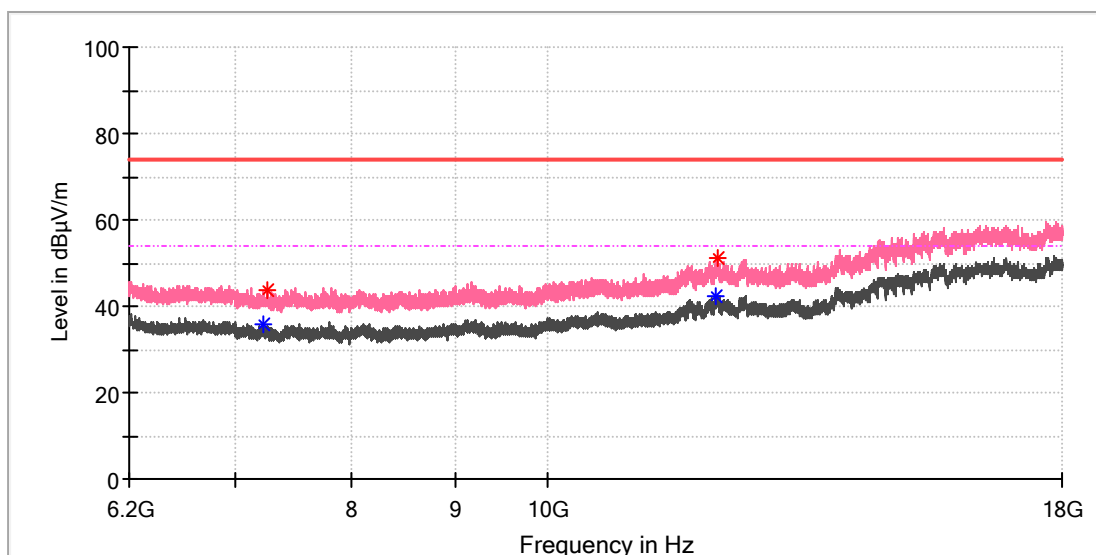


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7469.483333	44.27	---	74.00	29.73	150.0	H	94.0	8.6
7485.216667	---	35.35	54.00	18.65	150.0	H	327.0	8.7
10343.766667	46.12	---	74.00	27.88	150.0	H	20.0	11.7
10359.991667	---	37.99	54.00	16.01	150.0	H	45.0	11.8
12136.383333	---	42.21	54.00	11.79	150.0	H	82.0	16.4
12155.558333	50.66	---	74.00	23.34	150.0	H	358.0	16.4

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-60
Test Mode:	BLE 1M_Mid channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004196209-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



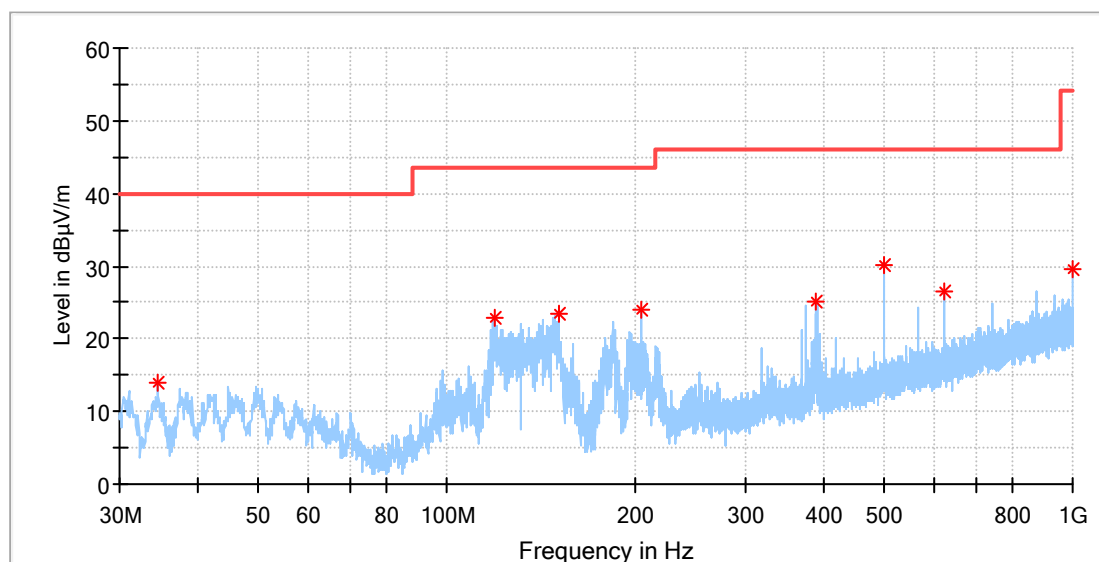
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7232.991667	---	35.85	54.00	18.15	150.0	V	259.0	8.6
7261.508333	43.68	---	74.00	30.32	150.0	V	215.0	8.5
12129.991667	---	42.36	54.00	11.64	150.0	V	90.0	16.2
12154.575000	51.33	---	74.00	22.67	150.0	V	146.0	16.5

Appendix C.3: Test Results of co-located transmitting in host SDP-70

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-70
Test Mode:	BLE 1M_Low channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004224906-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

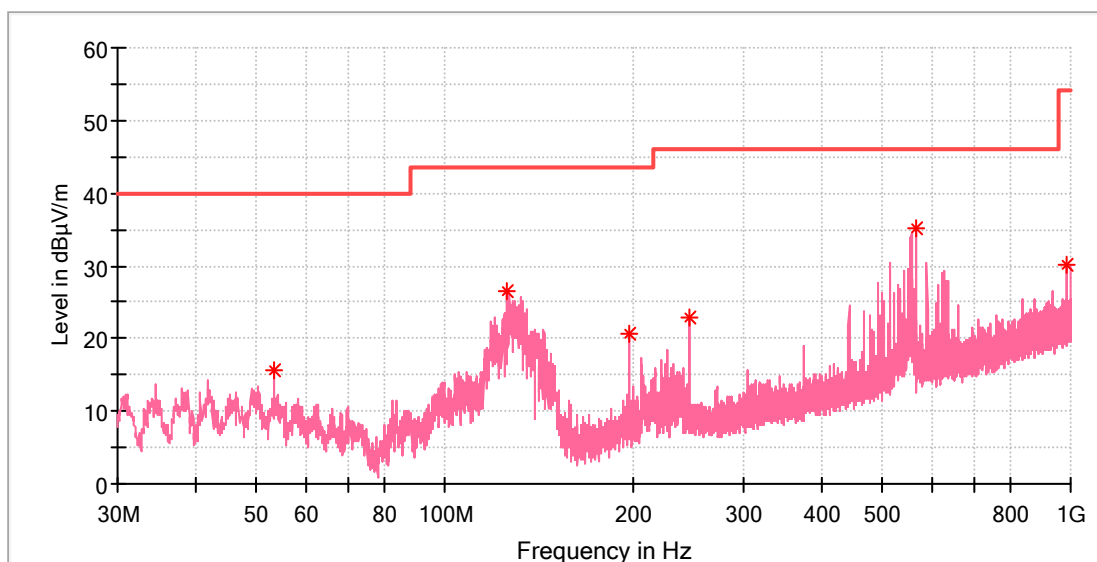


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.526667	13.98	40.00	26.02	100.0	H	70.0	-22.1
119.509444	22.88	43.50	20.62	100.0	H	62.0	-20.8
151.357778	23.43	43.50	20.07	100.0	H	54.0	-22.2
203.953333	24.09	43.50	19.41	100.0	H	54.0	-19.0
390.139444	25.05	46.00	20.95	100.0	H	101.0	-14.0
499.965000	30.23	46.00	15.77	100.0	H	204.0	-11.9
625.041111	26.64	46.00	19.36	100.0	H	62.0	-9.2
1000.000000	29.60	54.00	24.40	100.0	H	204.0	-3.4

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-70
Test Mode:	BLE 1M_Low channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004224906-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

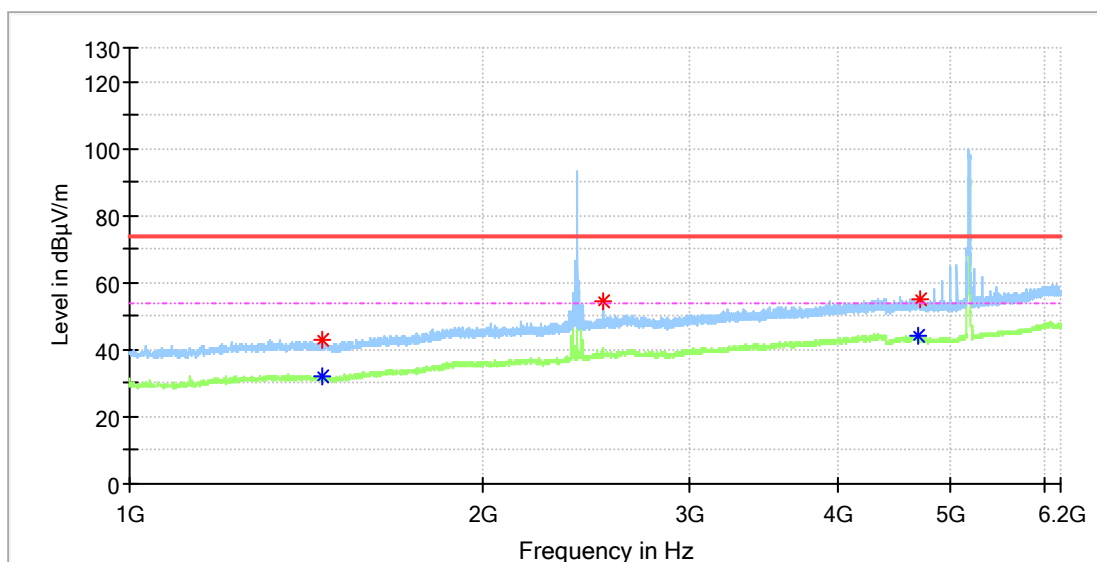


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.333889	15.55	40.00	24.45	100.0	V	300.0	-18.5
125.491111	26.58	43.50	16.92	100.0	V	168.0	-21.5
196.624444	20.65	43.50	22.85	100.0	V	154.0	-19.2
245.771111	22.75	46.00	23.25	100.0	V	349.0	-17.5
565.278333	35.15	46.00	10.85	100.0	V	12.0	-10.4
983.078889	30.09	54.00	23.91	100.0	V	262.0	-3.8

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-70
Test Mode:	BLE 1M_Low channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004224906-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

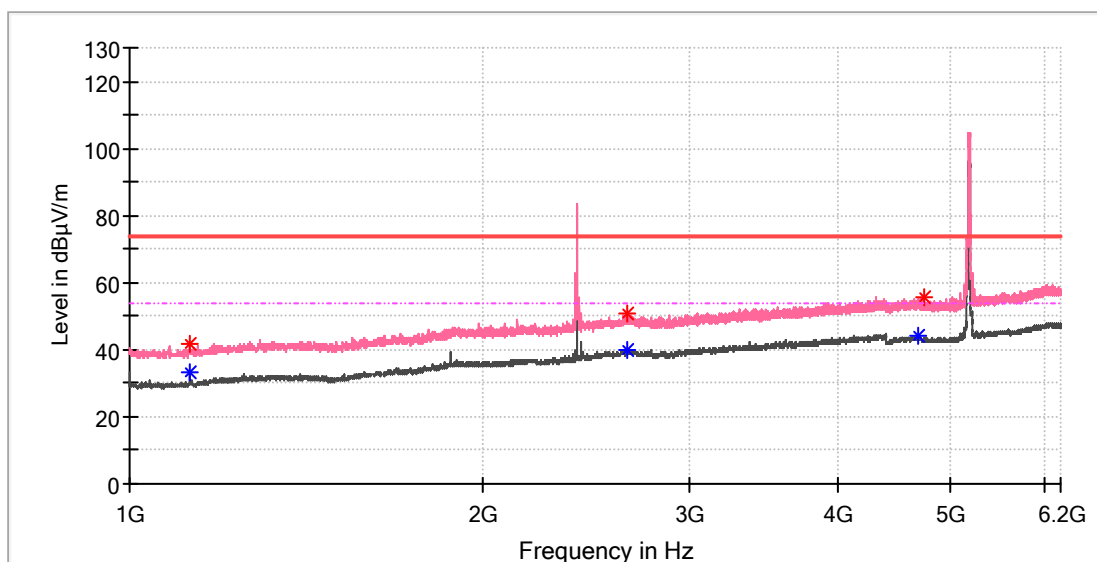


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1456.000000	43.09	---	74.00	30.91	150.0	H	207.0	2.7
1458.500000	---	32.21	54.00	21.79	150.0	H	148.0	2.7
2529.500000	54.16	---	68.20	14.04	150.0	H	142.0	9.3
4691.000000	---	44.12	54.00	9.88	150.0	H	289.0	13.5
4710.000000	54.98	---	74.00	19.02	150.0	H	52.0	13.5

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-70
Test Mode:	BLE 1M_Low channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004224906-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

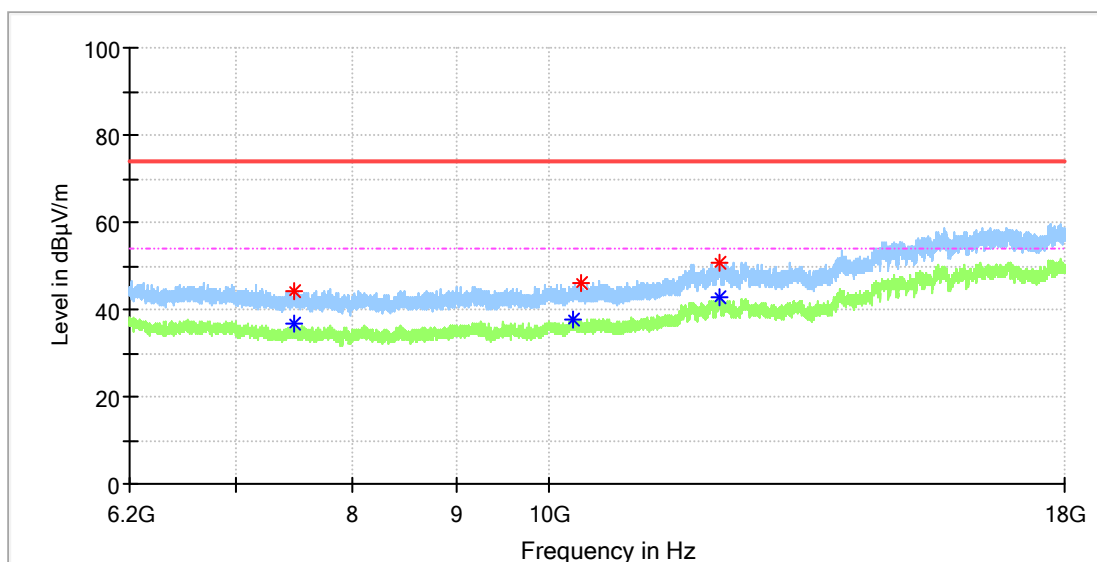


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.500000	---	33.01	54.00	20.99	150.0	V	243.0	0.9
1125.000000	41.45	---	74.00	32.55	150.0	V	256.0	0.9
2649.000000	---	40.20	54.00	13.80	150.0	V	178.0	10.1
2651.500000	51.07	---	74.00	22.93	150.0	V	359.0	10.2
4692.000000	---	43.86	54.00	10.14	150.0	V	104.0	13.5
4742.000000	55.52	---	74.00	18.48	150.0	V	73.0	13.4

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-70
Test Mode:	BLE 1M_Low channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004224906-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

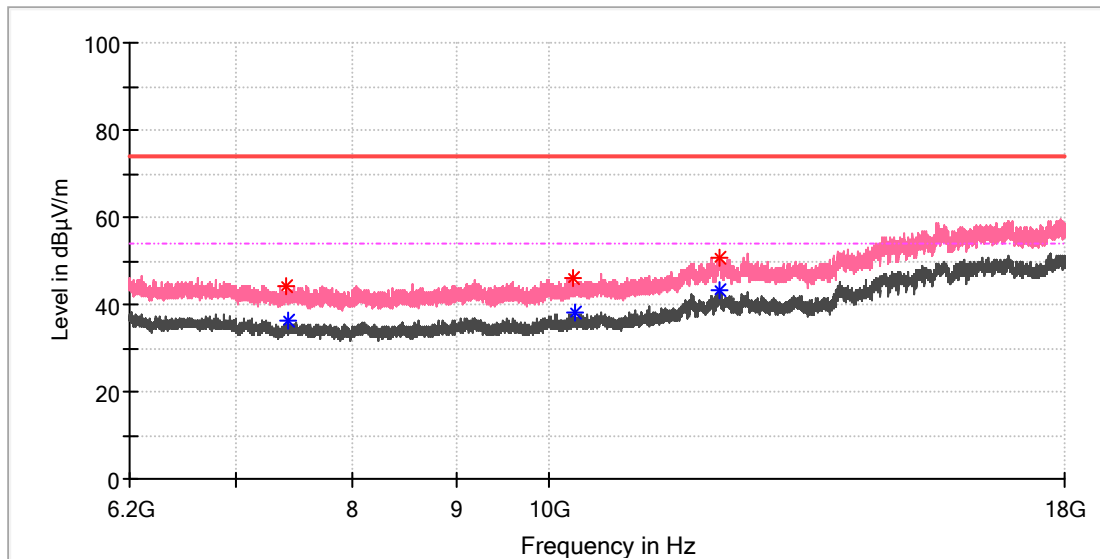


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7478.333333	44.17	---	74.00	29.83	150.0	H	196.0	8.7
7483.250000	---	36.56	54.00	17.44	150.0	H	251.0	8.7
10280.341667	---	37.85	54.00	16.15	150.0	H	54.0	11.5
10362.450000	46.13	---	74.00	27.87	150.0	H	239.0	11.8
12138.350000	---	42.88	54.00	11.12	150.0	H	0.0	16.4
12151.133333	50.93	---	74.00	23.07	150.0	H	28.0	16.7

EUT Information

EUT Name:	Audio Video Processor
Model:	SDP-70
Test Mode:	BLE 1M_Low channel+WIFI 5G_11a_Ch36
Order No/Sample No:	A004224906-002
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



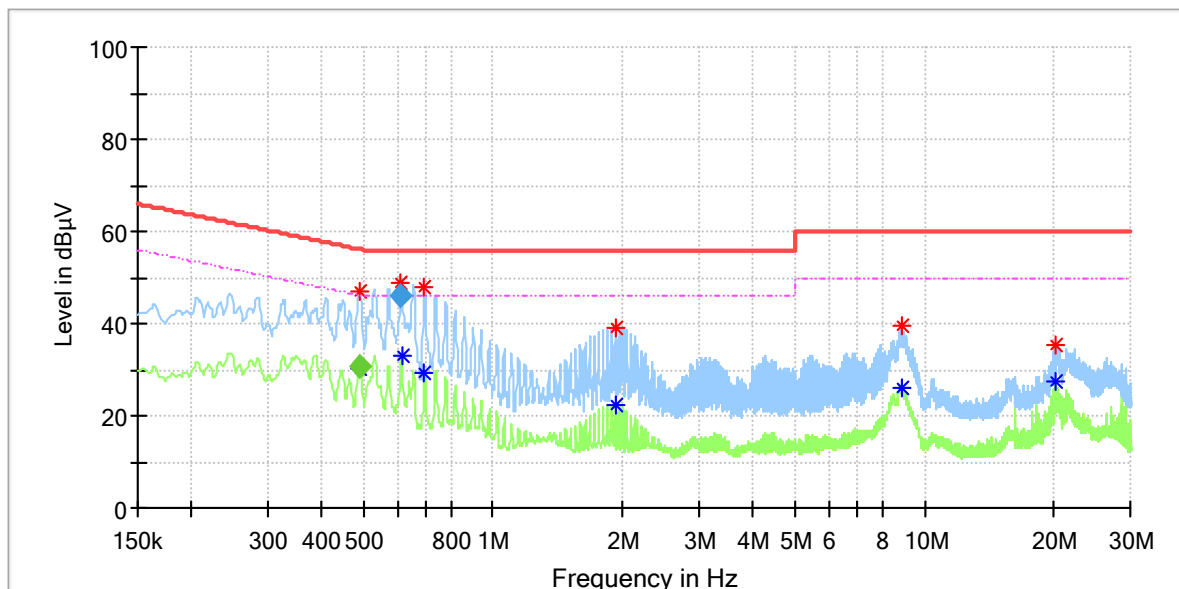
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7405.075000	44.31	---	74.00	29.69	150.0	V	248.0	8.3
7422.775000	---	36.06	54.00	17.94	150.0	V	11.0	8.4
10277.391667	45.96	---	74.00	28.04	150.0	V	226.0	11.5
10305.908333	---	38.00	54.00	16.00	150.0	V	136.0	11.6
12144.741667	---	43.03	54.00	10.97	150.0	V	215.0	16.6
12155.558333	50.68	---	74.00	23.32	150.0	V	53.0	16.4

Appendix C.4: Test Results of Conducted Emissions on AC mains, host SDR-40

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 168578339-P02067673
Model: SDR-40
Test Mode: ON, Wireless Input
Test Voltage: AC 120V/60Hz
Test Standard: EN 55032
Test By:/Review By: Aric Wang/ Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark: SR2



Critical_Freqs

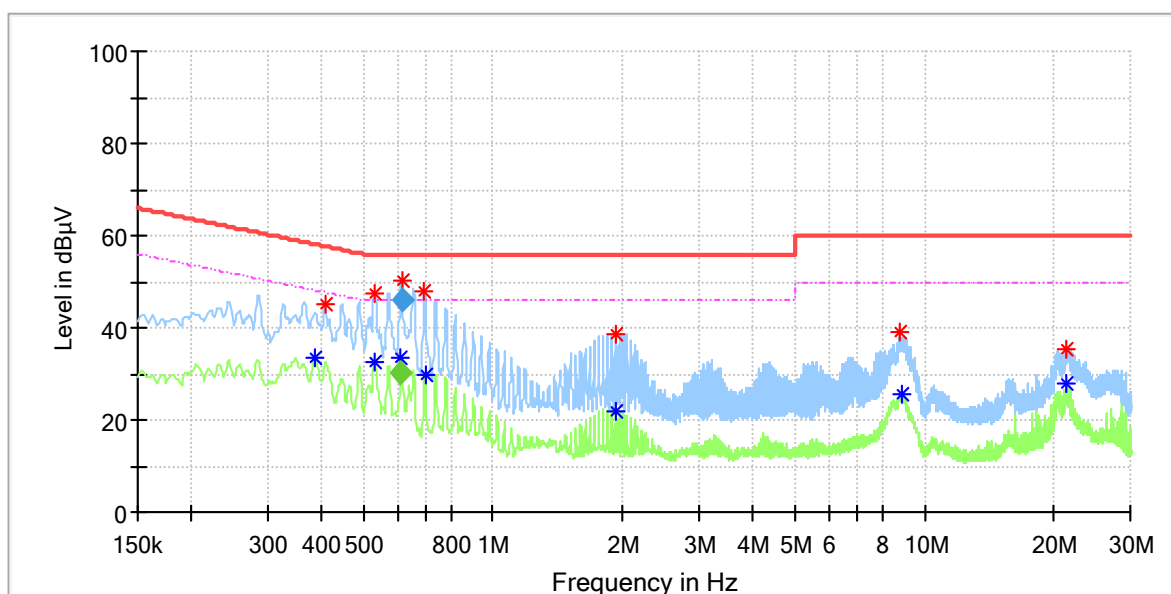
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.49	47.00	---	56.20	9.20	L1	10.26
0.49	---	30.39	46.00	15.61	L1	10.26
0.61	48.97	---	56.00	7.03	L1	10.27
0.61	---	33.13	46.00	12.87	L1	10.27
0.69	---	29.24	46.00	16.76	L1	10.28
0.69	47.72	---	56.00	8.28	L1	10.28
1.92	---	22.48	46.00	23.52	L1	10.31
1.92	38.98	---	56.00	17.02	L1	10.31
8.88	39.32	---	60.00	20.68	L1	10.61
8.88	---	25.99	50.00	24.01	L1	10.61
20.15	---	27.46	50.00	22.54	L1	11.13
20.23	35.32	---	60.00	24.68	L1	11.13

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.49	---	30.60	46.16	15.56	1000.00	9.00	L1	10.26
0.61	46.01	---	56.00	9.99	1000.00	9.00	L1	10.27

EUT Information

EUT Name: Audio Video Amplifier
Order Number: 168578339-P02067673
Model: SDR-40
Test Mode: ON, Wireless Input
Test Voltage: AC 120V/60Hz
Test Standard: EN 55032
Test By:/Review By: Aric Wang/ Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.39	---	33.68	48.13	14.45	N	10.26
0.41	45.21	---	57.71	12.50	N	10.26
0.53	---	32.39	46.00	13.61	N	10.27
0.53	47.65	---	56.00	8.35	N	10.27
0.61	---	33.69	46.00	12.31	N	10.28
0.62	50.07	---	56.00	5.93	N	10.28
0.69	47.94	---	56.00	8.06	N	10.29
0.70	---	29.80	46.00	16.21	N	10.29
1.92	38.65	---	56.00	17.35	N	10.31
1.92	---	22.02	46.00	23.98	N	10.31
8.80	38.96	---	60.00	21.04	N	10.60
8.89	---	25.67	50.00	24.33	N	10.61
21.30	---	27.73	50.00	22.27	N	11.17
21.38	35.35	---	60.00	24.65	N	11.18

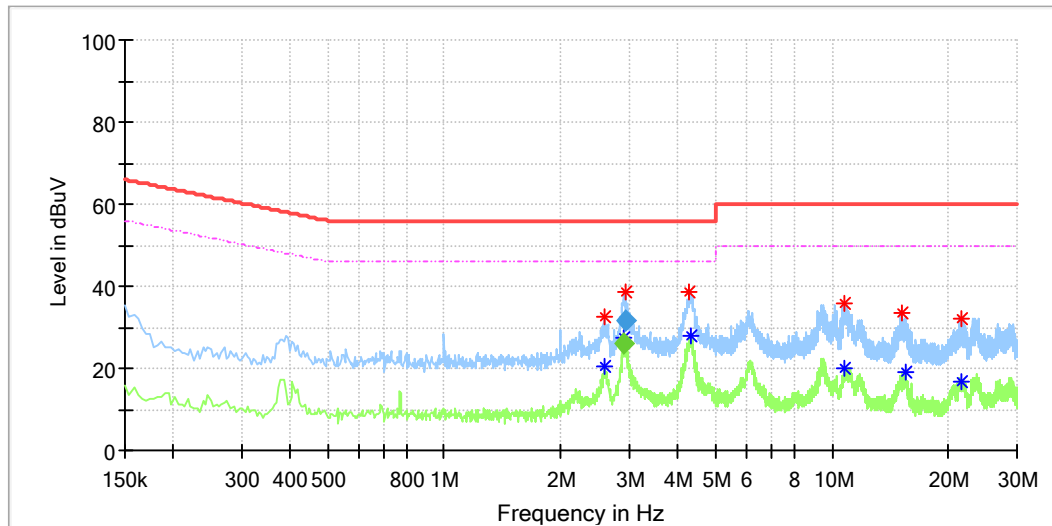
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.61	---	30.23	46.00	15.77	1000.00	9.00	N	10.28
0.62	46.19	---	56.00	9.81	1000.00	9.00	N	10.28

Appendix C.5: Test Results of Conducted Emissions on AC mains, host SDP-60

EUT Information

EUT Name: Audio Video Processor
Model: SDP-60
Test Mode: Wireless mode
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By:/Review By: Steve Lan/ Murphy Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: SR2



Critical Freqs

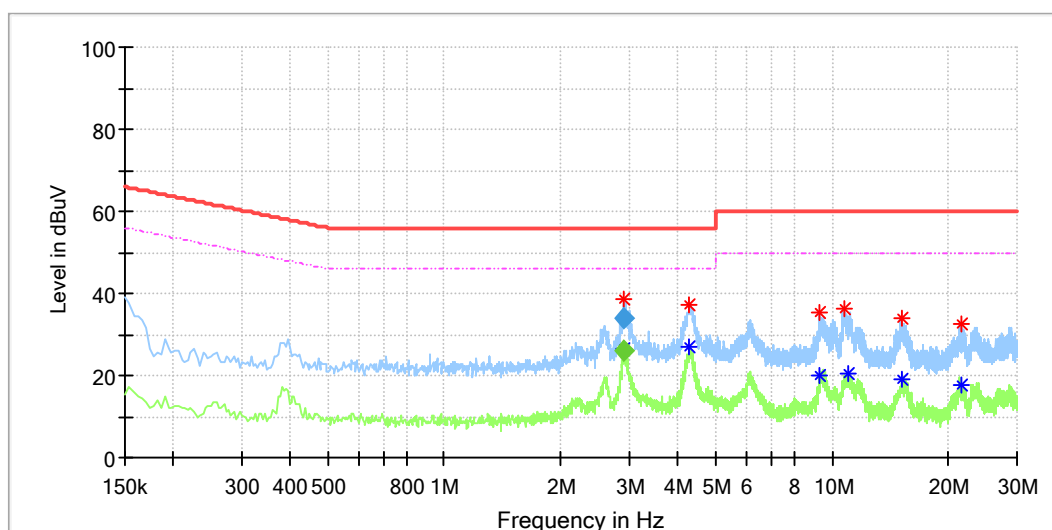
Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
2.598	---	20.3	46.00	25.68	L1	9.6
2.598	32.7	---	56.00	23.32	L1	9.6
2.906	---	27.6	46.00	18.43	L1	9.6
2.951	38.5	---	56.00	17.53	L1	9.6
4.282	38.4	---	56.00	17.62	L1	9.7
4.314	---	27.8	46.00	18.22	L1	9.7
10.758	36.0	---	60.00	24.00	L1	9.9
10.770	---	19.8	50.00	30.18	L1	9.9
15.086	33.4	---	60.00	26.62	L1	9.5
15.502	---	18.9	50.00	31.09	L1	9.5
21.538	---	16.7	50.00	33.34	L1	9.8
21.598	32.1	---	60.00	27.89	L1	9.8

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
2.906	---	25.9	46.00	20.12	1000.0	9.0	L1	9.6
2.951	31.5	---	56.00	24.50	1000.0	9.0	L1	9.6

EUT Information

EUT Name: Audio Video Processor
Model: SDP-60
Test Mode: Wireless mode
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By./Review By: Steve Lan/ Murphy Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
2.906	38.6	---	56.00	17.38	N	9.8
2.910	---	26.6	46.00	19.41	N	9.8
4.290	---	26.8	46.00	19.23	N	9.7
4.290	37.4	---	56.00	18.59	N	9.7
9.262	35.2	---	60.00	24.83	N	9.7
9.322	---	19.9	50.00	30.10	N	9.7
10.774	36.3	---	60.00	23.73	N	9.7
11.006	---	20.3	50.00	29.68	N	9.7
15.070	33.9	---	60.00	26.07	N	9.6
15.206	---	19.3	50.00	30.72	N	9.6
21.442	---	17.6	50.00	32.38	N	9.8
21.614	32.8	---	60.00	27.21	N	9.8

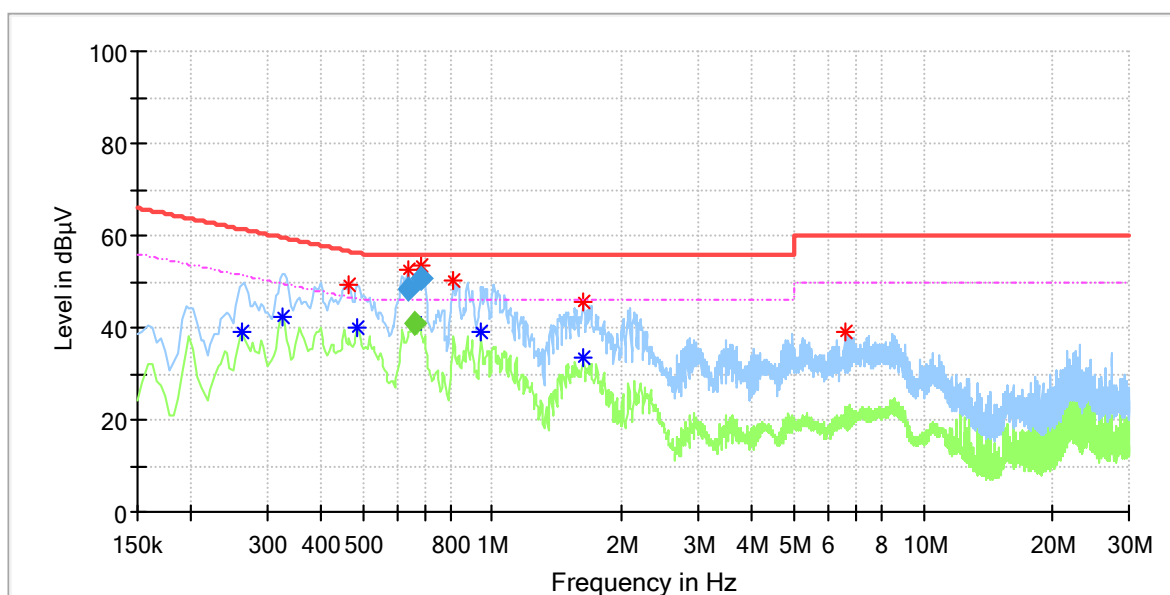
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
2.906	33.8	---	56.00	22.22	1000.0	9.0	N	9.8
2.910	---	26.0	46.00	20.01	1000.0	9.0	N	9.8

Appendix C.6: Test Results of Conducted Emissions on AC mains, host SDP-70

EUT Information

EUT Name: Audio Video Processor
Model: SDP-70
Test Mode: ON, Wireless Input
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Brain Zhang / Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark: SR2



Critical Freqs

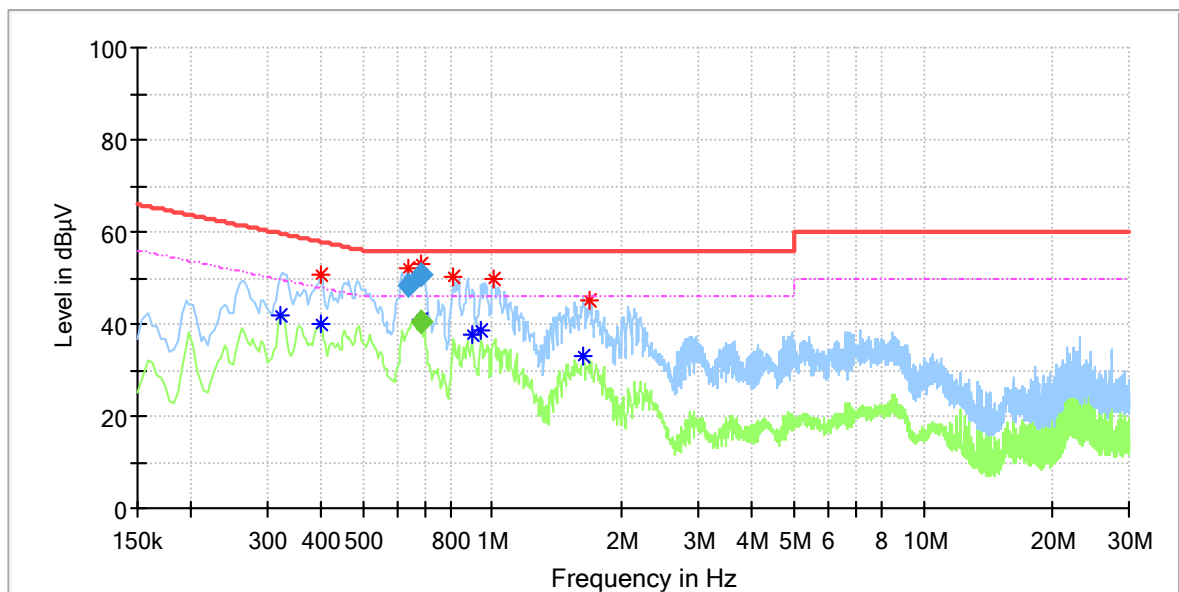
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.26	---	39.01	51.37	12.36	L1	10.24
0.33	---	42.15	49.55	7.40	L1	10.25
0.47	49.35	---	56.59	7.23	L1	10.26
0.49	---	39.88	46.24	6.35	L1	10.26
0.81	50.10	---	56.00	5.90	L1	10.28
0.94	---	38.96	46.00	7.04	L1	10.28
1.62	45.60	---	56.00	10.40	L1	10.30
1.62	---	33.55	46.00	12.45	L1	10.30
6.62	39.26	---	60.00	20.74	L1	10.51

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.64	48.40	---	56.00	7.60	1000.00	9.00	L1	10.27
0.66	---	40.76	46.00	5.24	1000.00	9.00	L1	10.27
0.68	50.83	---	56.00	5.17	1000.00	9.00	L1	10.27

EUT Information

EUT Name: Audio Video Processor
Model: SDP-70
Test Mode: ON, Wireless Input
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Brain Zhang / Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.5%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.32	---	41.82	49.66	7.84	N	10.26
0.40	50.52	---	57.90	7.37	N	10.26
0.40	---	39.85	47.90	8.04	N	10.26
0.81	50.27	---	56.00	5.74	N	10.29
0.90	---	37.84	46.00	8.16	N	10.29
0.94	---	38.82	46.00	7.18	N	10.29
1.00	49.73	---	56.00	6.27	N	10.29
1.62	---	32.90	46.00	13.10	N	10.30
1.68	45.09	---	56.00	10.91	N	10.30

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.64	48.22	---	56.00	7.78	1000.00	9.00	N	10.28
0.68	---	40.31	46.00	5.69	1000.00	9.00	N	10.28
0.68	50.86	---	56.00	5.14	1000.00	9.00	N	10.28