

Prüfbericht-Nr.: Test report no.:	CN25VMPQ 001	Auftrags-Nr.: Order no.:	168530607	Page 1 of 23 Seite 1 von 23
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024-12-20	
Auftraggeber: Client:	SKULLCANDY, INC. 6301 N Landmark Dr Park City, UT 84098			
Prüfgegenstand: Test item:	PUSH 720 OPEN			
Bezeichnung / Typ-Nr.: Identification / Type no.:	S4OEW (Trademark: Skullcandy)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209		RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 March 2019	
Wareneingangsdatum: Date of sample receipt:	2024-10-24	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A003851906			
Prüfzeitraum: Testing period:	2024-11-05 – 2025-01-15			
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:	2025-02-17		Ausstellungsdatum: Issue date:	2025-02-17
Signed by: Harry W. C. Wu		Signed by: Alex Lan		
Stellung / Position:	Project Manager		Stellung / Position:	Authorizer
Sonstiges / Other:	FCC ID: Y22-S4OEW IC: 10486A-S4OEW HVIN: S4OEW			
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. <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>				

Remarks
Anmerkungen

- | | |
|----------|--|
| 1 | <p>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.</p> <p>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>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.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
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| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>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.</i></p> |
| 4 | <p>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.</p> <p><i>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.</i></p> |

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.9 TIME OF OCCUPANCY

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.

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

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	25.09.2025
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	25.09.2025
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	25.09.2025
DC Power Supply	Keysight	E3642A	MY61276100	25.09.2025
Wireless Connectivity Tester	R&S	CMW270	102505	25.09.2025
Power Control Unit	Tonscend	JS0806-4ADC	N/A	25.09.2025
Automation Control Unit	Tonscend	JS0806-2	21C8060396	25.09.2025
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	28.02.2025
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	Y LX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
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

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

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 2.08 \%$
RF output power, conducted	$\pm 0.99 \text{ dB}$
RF power density, conducted	$\pm 0.99 \text{ dB}$
Unwanted Emissions, conducted	$\pm 0.89 \text{ dB}$
All emissions, radiated	$\pm 4.17 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B 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 No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China/518110 is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

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3 General Product Information

3.1 Product Function and Intended Use

The EUT is Bluetooth Headset, which supports Bluetooth dual mode technology.
The right earbud identical with left earbud except the key PCB layout different.
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	PUSH 720 OPEN
Type Designation	S4OEW
Trademark	Skullcandy 
FCC ID	Y22-S4OEW
IC	10486A-S4OEW
HVIN	S4OEW
Extreme Temperature Range	0°C to +45°C
Operating Voltage	For charging case: Input: DC 5V, 0.5A via Type C interface or DC 3.7V, 500mAh via built-in Li-ion battery Output: DC 5V, 200mA * 2 For left & right earbuds: DC 3.7V, 37mAh via built-in lithium-ion battery DC 5V, 0.2A*2 via charging case
Technical Specification of Classical Bluetooth	
Bluetooth Core Version	Bluetooth 5.3
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	LDS antenna
Antenna Gain	-1.06 dBi (Provided by the Client)
Technical Specification of Bluetooth Low Energy	
Bluetooth Core Version	Bluetooth 5.3
Operating Frequency band	2402 – 2480 MHz for data rate 1Mbps 2404 – 2478 MHz for data rate 2Mbps
Channel Number	40 channels for data rate 1Mbps 38 channels for data rate 2Mbps Note: 2402MHz/2480MHz will be disable via software for data rate 2Mbps.
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	LDS antenna
Antenna Gain	-1.06 dBi (Provided by the Client)

Table 3: RF Channel and Frequency of Classic Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	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
 - 1. Bluetooth transmitting mode (BR & EDR mode)
 - a) Low Channel
 - b) Middle Channel
 - c) High Channel
- B. On, Transmitting on Hopping channel
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

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

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, all test items of conducted method were applied on model S4OEW with right earbud and Radiated spurious Emissions were applied on model Eono S4OEW with left & right earbuds.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N or Rating
Laptop	Lenovo	T480	PF-16A6N8

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)

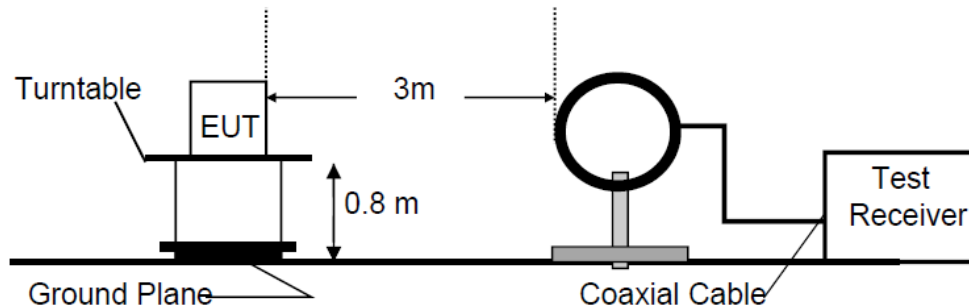


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

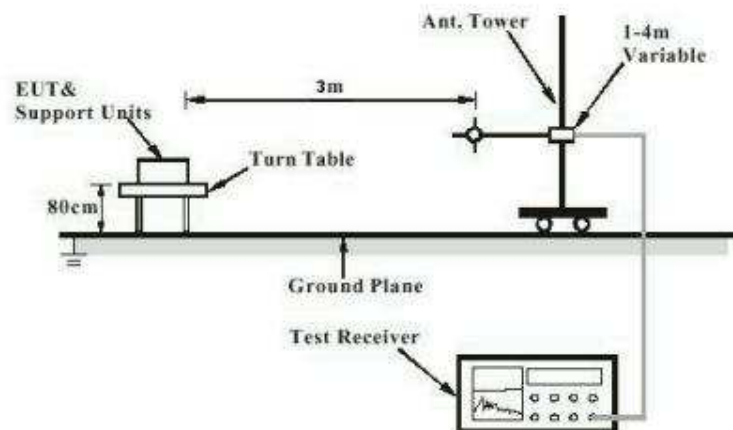


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

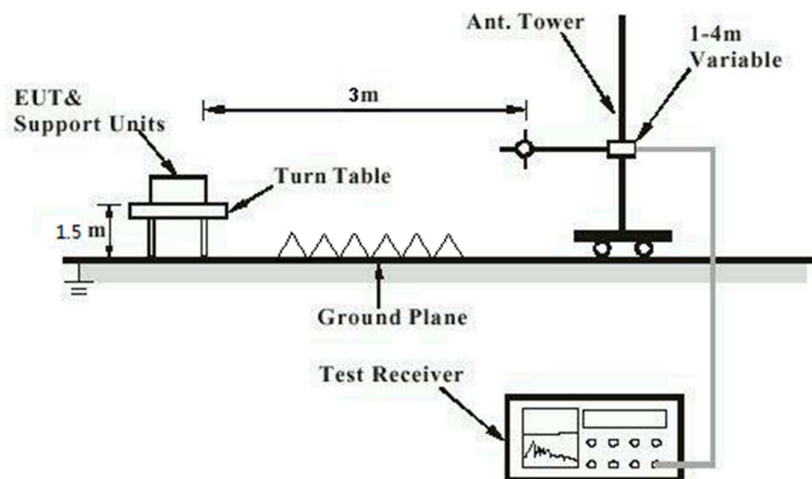
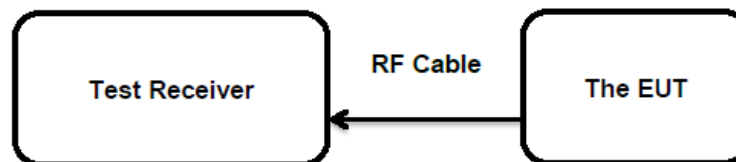


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 8.3

According to the manufacturer declared, the EUT has one LDS antenna, the directional gain of antennas is -1.06dBi and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Conducted Output Power

RESULT: **Pass**
Test Specification

Test standard	FCC Part 15.247(b)(1) RSS-247 Clause 5.4(b)
Basic standard	ANSI C63.10: 2013
Limits	FHSS<0.125W(Maximum peak conducted output power) < 4 W (e.i.r.p.)
Kind of test site	Shielded Room

Test Setup

Date of testing	2024-11-05 to 2025-01-15
Input voltage	DC 3.7V
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	24.8 °C
Relative humidity	55 %
Atmospheric pressure	101 kPa

Table 6: Test Result of Maximum Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	9.71	0.00935	< 0.125
	2441	9.73	0.00940	
	2480	9.80	0.00955	
EDR	2402	9.55	0.00902	
	2441	9.39	0.00869	
	2480	9.42	0.00875	
Maximum Measured Value		9.80	0.00955	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 8.74dBm less than 4W(36dBm).

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5.1.3 99% Bandwidth

RESULT:
Pass
Test Specification

Test standard : RSS-Gen Clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-05 to 2025-01-15
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B

Table 7: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BR	2402	0.88082	/
	2441	0.90155	
	2480	0.88421	
EDR	2402	1.1798	/
	2441	1.1773	
	2480	1.1808	

Note: The fundamental emissions stay within the allocated band 2400-2483.5MHz.

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5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: Pass

Test Specification

Test standard : FCC Part 15.247(d)
RSS-247 Clause 5.5
Basic standard : ANSI C63.10: 2013
Limits : 20dB (below that in the 100kHz bandwidth within the band
that contains the highest level of the desired power);
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-05 to 2025-01-15
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the appendix B

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5.1.5 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-247 Clause 3.3
Basic standard : ANSI C63.10: 2013
Limits : Refer to 15.209(a) of FCC part 15.247(d)
RSS-Gen Table 6 & Table 7
Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2024-11-05 to 2025-01-15
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : 101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics, with lowest/middle/highest channels for all modes, and only the worst case (middle channel) were recorded in this test report.

For the measurement records, refer to the appendix B

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5.1.6 20dB Bandwidth

RESULT: **Pass**
Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(a)

Basic standard : ANSI C63.10: 2013

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-05 to 2025-01-15

Input voltage : DC 3.7V

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : 24.8 °C

Relative humidity : 55 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B

Table 8: Test Result of -20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB Bandwidth (MHz)	Limit (MHz)
BR	2402	0.966	0.644	/
	2441	1.017	0.678	
	2480	0.960	0.640	
EDR	2402	1.272	0.848	/
	2441	1.299	0.866	
	2480	1.311	0.874	

Prüfbericht-Nr.: CN25VMPQ 001
Test report no.:Seite 20 von 23
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5.1.7 Carrier Frequency Separation

RESULT: **Pass****Test Specification**

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(b)

Basic standard : ANSI C63.10: 2013

Limits : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-05 to 2025-01-15

Input voltage : DC 3.7V

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature : $24.8\text{ }^{\circ}\text{C}$

Relative humidity : 55 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B

Table 9: Test Result of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.324	≥ 1.017	PASS
3DH5	Ant1	Hop	1.032	≥ 0.874	PASS

Prüfbericht-Nr.: CN25VMPQ 001
Test report no.:Seite 21 von 23
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5.1.8 Number of Hopping Frequency

RESULT: **Pass****Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(d)
Basic standard : ANSI C63.10: 2013
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-05 to 2025-01-15
Input voltage : DC 3.7V
Operation mode : B
Ambient temperature : 24.8 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Table 10: Test Result of Number of Hopping Frequency, Left earbud

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

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5.1.9 Time of Occupancy

RESULT:

Pass

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(d)

Basic standard : ANSI C63.10: 2013

Limits : < 0.4s

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-05 to 2025-01-15

Input voltage : DC 3.7V

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature : 24.8 °C

Relative humidity : 55 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

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

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Appendix B.1: Test Results of 99% Bandwidth

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88082	2401.5566	2402.4374	---	---
		2441	0.90155	2440.5486	2441.4502	---	---
		2480	0.88421	2479.5569	2480.4411	---	---
3DH5	Ant1	2402	1.1798	2401.4040	2402.5838	---	---
		2441	1.1773	2440.4084	2441.5857	---	---
		2480	1.1808	2479.4051	2480.5859	---	---

DH5_Ant1_2402



DH5_Ant1_2441



Appendix B
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Appendix B.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.529	2402.495	---	---
		2441	1.017	2440.469	2441.486	---	---
		2480	0.960	2479.526	2480.486	---	---
3DH5	Ant1	2402	1.272	2401.349	2402.621	---	---
		2441	1.299	2440.343	2441.642	---	---
		2480	1.311	2479.340	2480.651	---	---

DH5 Ant1 2402



DH5 Ant1 2441



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Test Report – Products
Prüfbericht - Produkte

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Appendix B.3: Test Results of Carrier Frequency Separation

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.324	≥ 1.017	PASS
3DH5	Ant1	Hop	1.032	≥ 0.874	PASS



Appendix B.4: Test Results of Number of Hopping Frequency

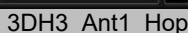
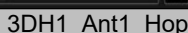
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

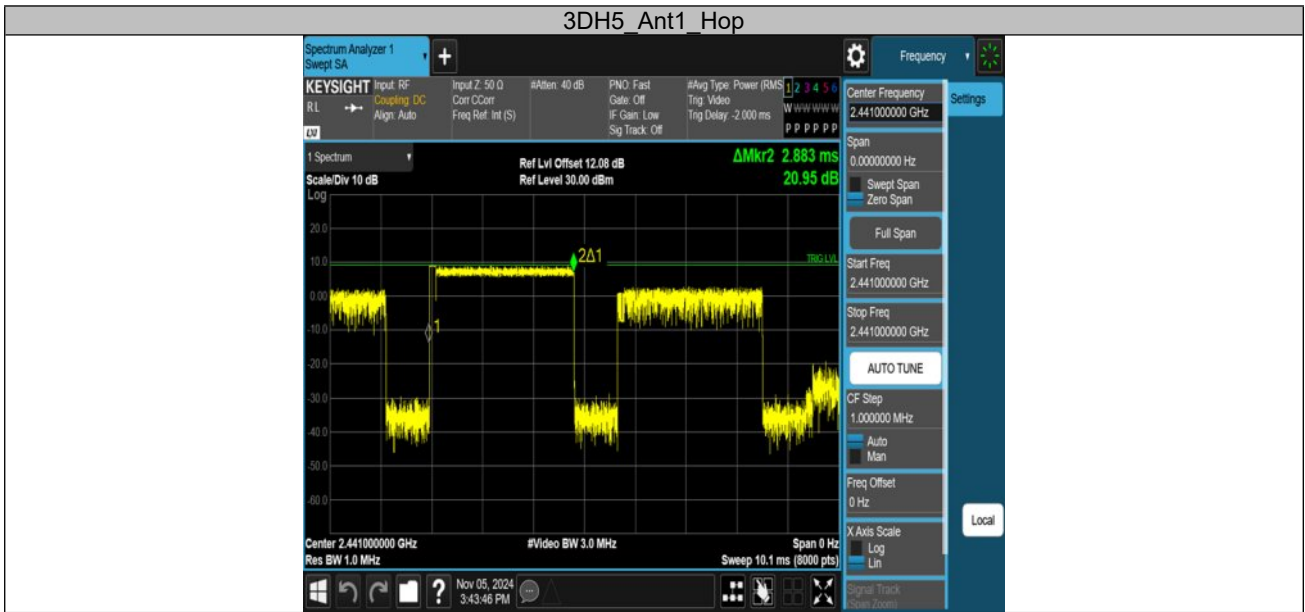


Appendix B.5: Test Results of Time of Occupancy

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.879	106.67	0.307	≤0.4	PASS
3DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS







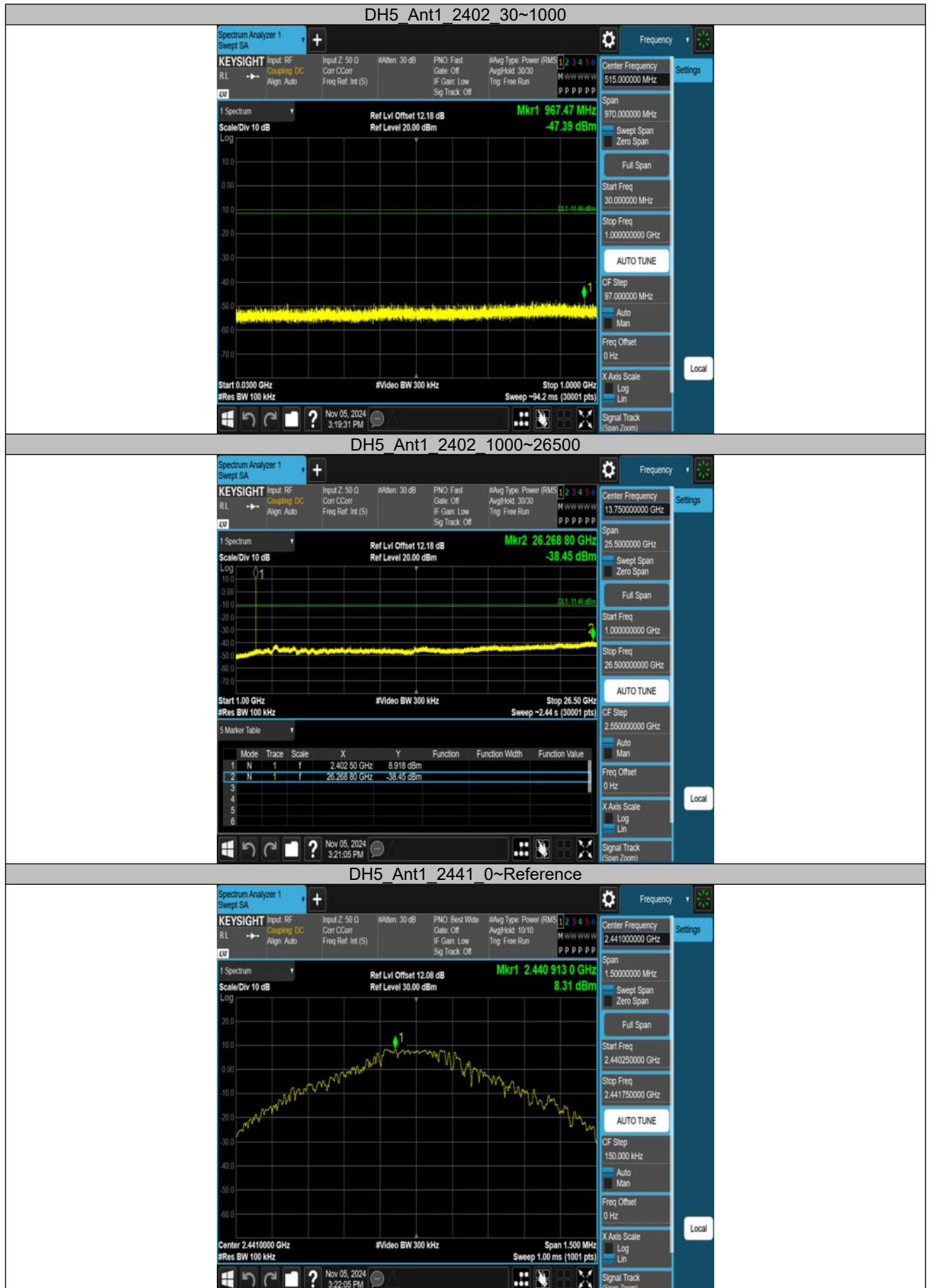
Appendix B.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

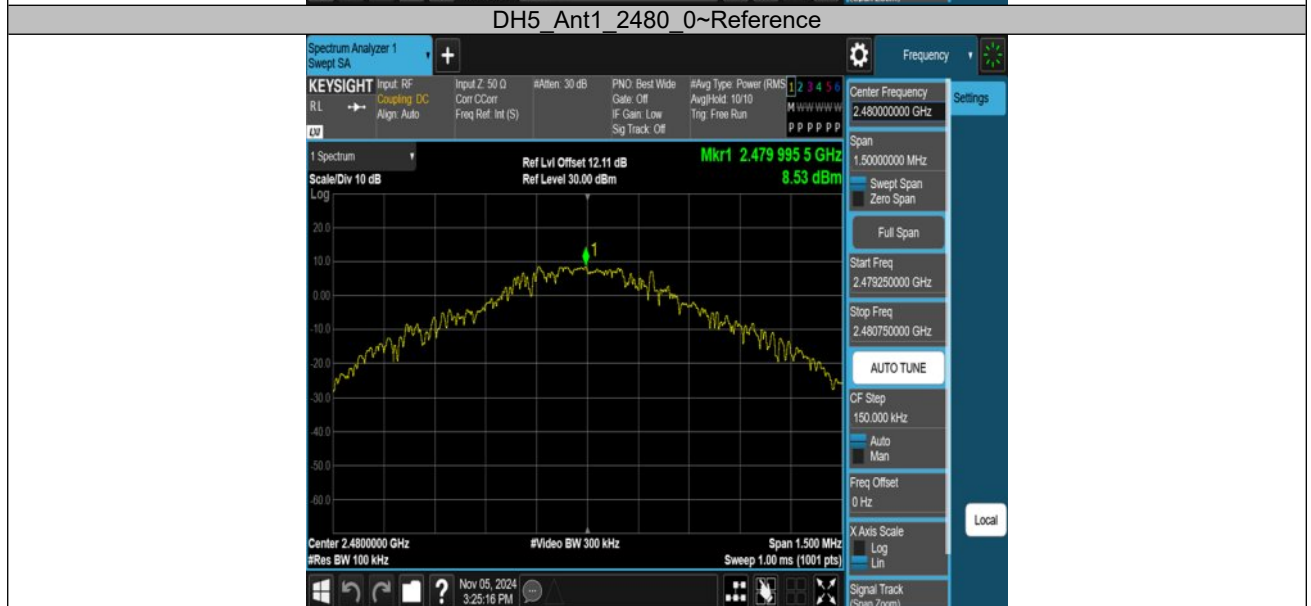
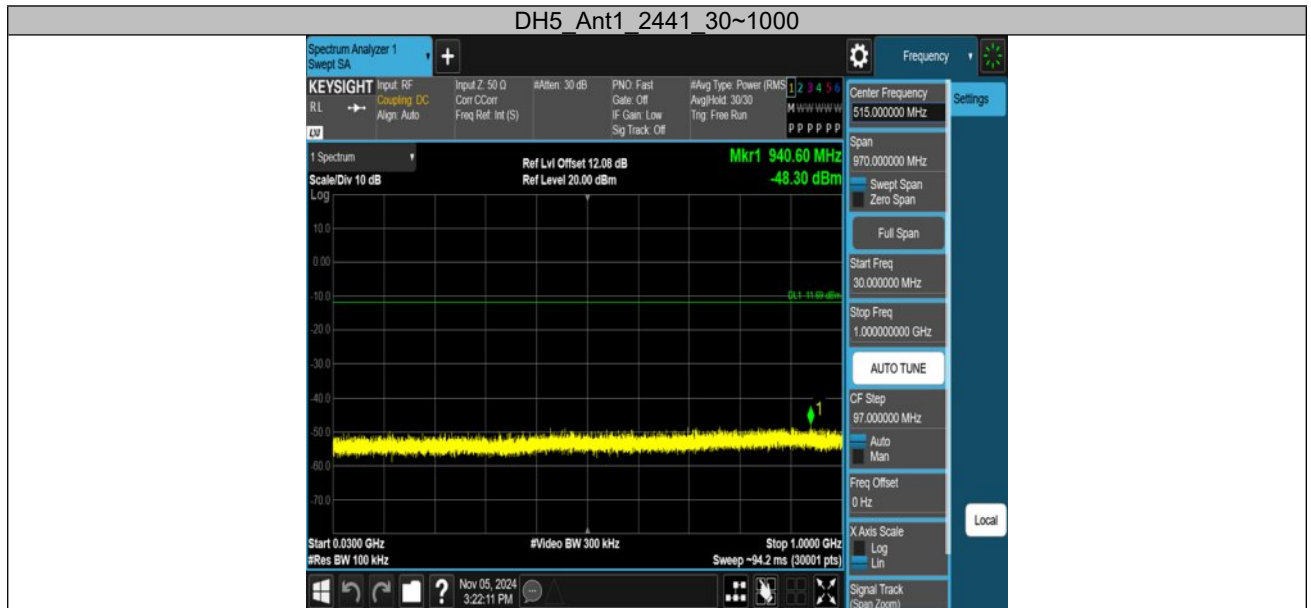
Conducted measurements

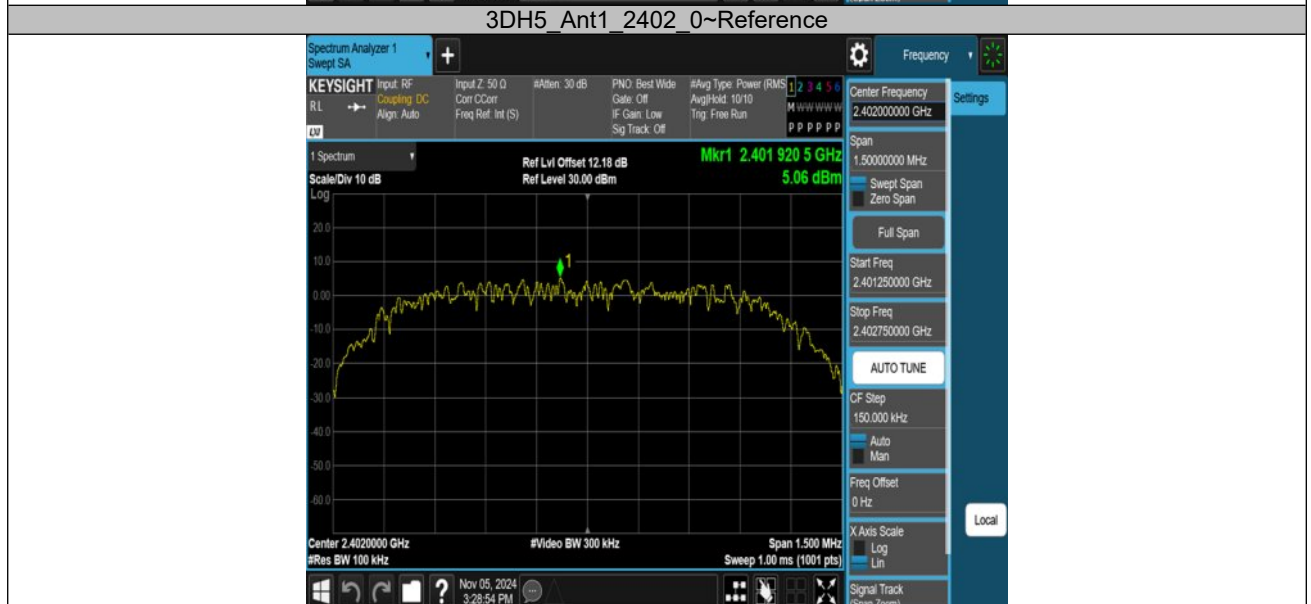
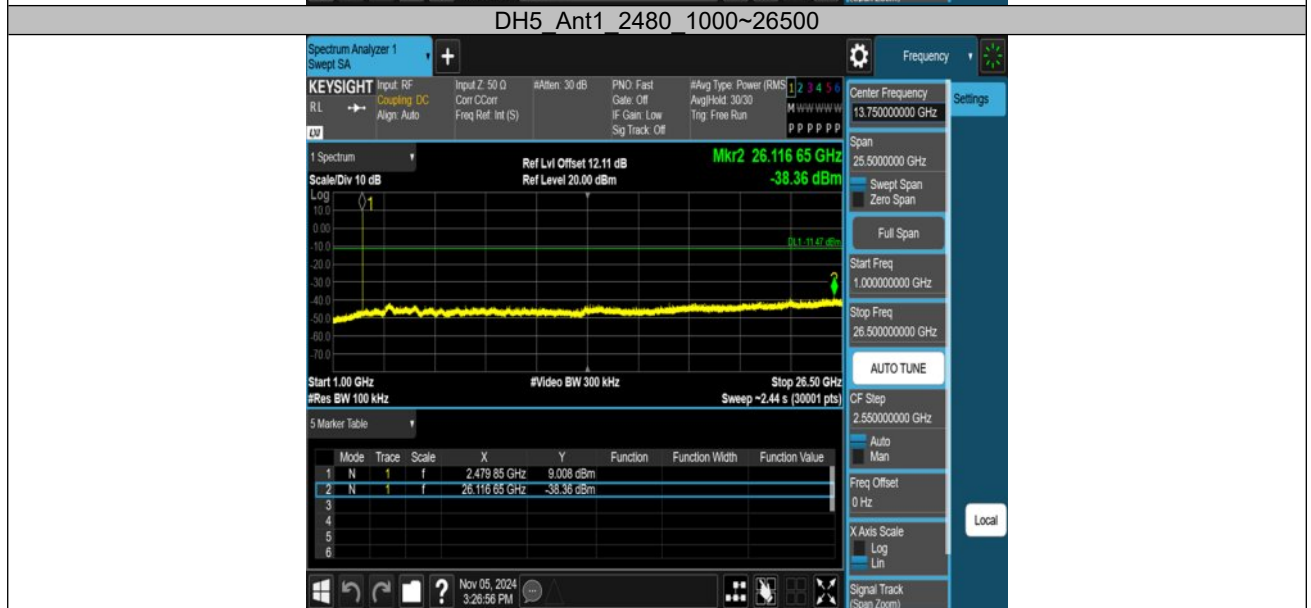
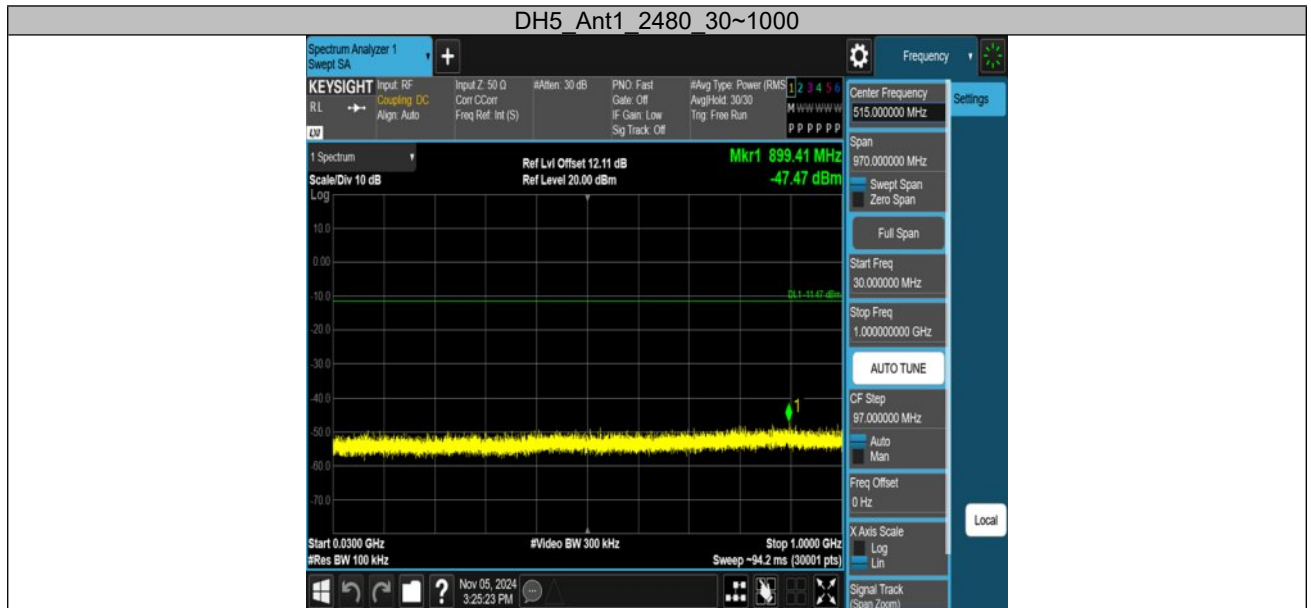
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	8.54	8.54	---	PASS
			30~1000	8.54	-47.39	≤-11.46	PASS
			1000~26500	8.54	-38.45	≤-11.46	PASS
		2441	Reference	8.31	8.31	---	PASS
			30~1000	8.31	-48.3	≤-11.69	PASS
			1000~26500	8.31	-38.83	≤-11.69	PASS
		2480	Reference	8.53	8.53	---	PASS
			30~1000	8.53	-47.47	≤-11.47	PASS
			1000~26500	8.53	-38.36	≤-11.47	PASS
3DH5	Ant1	2402	Reference	5.06	5.06	---	PASS
			30~1000	5.06	-46.84	≤-14.94	PASS
			1000~26500	5.06	-38.29	≤-14.94	PASS
		2441	Reference	8.04	8.04	---	PASS
			30~1000	8.04	-48.04	≤-11.96	PASS
			1000~26500	8.04	-38.7	≤-11.96	PASS
		2480	Reference	4.94	4.94	---	PASS
			30~1000	4.94	-46.78	≤-15.06	PASS
			1000~26500	4.94	-38.59	≤-15.06	PASS



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Band edge measurements

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	9.41	-49.19	≤-10.59	PASS
		High	2480	9.23	-51.11	≤-10.77	PASS
3DH5	Ant1	Low	2402	8.35	-46.94	≤-11.65	PASS
		High	2480	9.26	-50.30	≤-10.74	PASS
DH5	Ant1	Hopping	2402	8.88	-49.58	≤-11.12	PASS
		Hopping	2480	8.38	-49.53	≤-11.62	PASS
3DH5	Ant1	Hopping	2402	4.65	-51.28	≤-15.35	PASS
		Hopping	2480	7.61	-48.82	≤-12.39	PASS

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



DH5_Ant1_Hopping_2402



DH5 Ant1 Hopping 2480



3DH5 Ant1 Hopping 2402



3DH5 Ant1 Hopping 2480



Appendix B.7: Test Results of Radiated Spurious Emissions

Note:

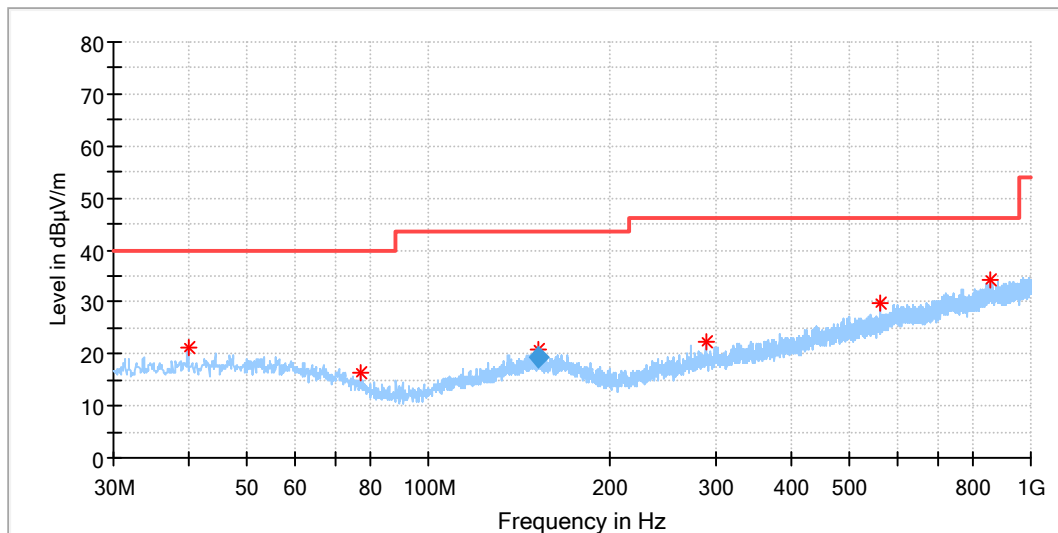
- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

For left earbud

30MHz - 1GHz

EUT Information

EUT Name:	Push 720 Open
Model:	S4OEW
Test Mode:	Mid channel
Test Voltage:	Battery
Test Standard:	FCC 15.247
Test By:/Review By:	Soloman Wu / Shower Dai
Tem./Hum./Pressure:	24.1°C/52.3%/101kPa
Remark:	3m chamber



Critical Freqs

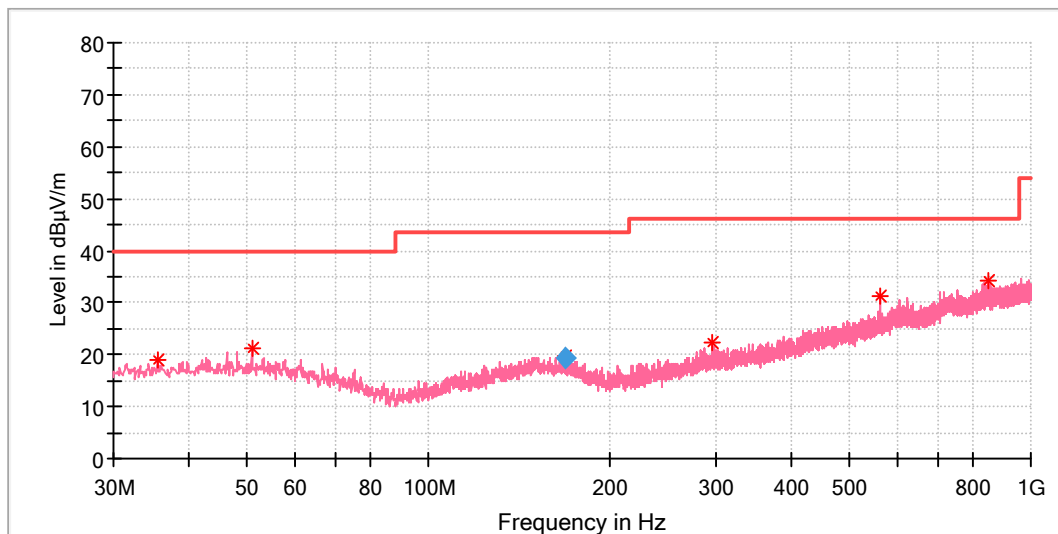
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.894000	21.06	40.00	18.94	200.0	H	334.0	20.1
77.239000	16.36	40.00	23.64	300.0	H	291.0	16.7
152.596000	20.77	43.50	22.73	100.0	H	268.0	20.6
288.408000	22.48	46.00	23.52	100.0	H	0.0	20.9
562.627000	29.65	46.00	16.35	300.0	H	320.0	27.1
854.015000	34.25	46.00	11.75	100.0	H	118.0	32.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
152.596000	19.49	43.50	24.01	1000.0	120.000	100.0	H	268.0	20.6

EUT Information

EUT Name:	Push 720 Open
Model:	S4OEW
Test Mode:	Mid channel
Test Voltage:	Battery
Test Standard:	FCC 15.247
Test By:/Review By:	Soloman Wu / Shower Dai
Tem./Hum./Pressure:	24.1°C/52.3%/101kPa
Remark:	3m chamber



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.529000	19.14	40.00	20.86	100.0	V	267.0	19.5
50.952000	21.04	40.00	18.96	200.0	V	272.0	20.6
169.053000	19.60	43.50	23.90	100.0	V	311.0	20.3
296.168000	22.15	46.00	23.85	100.0	V	0.0	21.0
562.627000	31.18	46.00	14.82	100.0	V	33.0	27.1
848.680000	34.22	46.00	11.78	200.0	V	159.0	32.1

Final Result

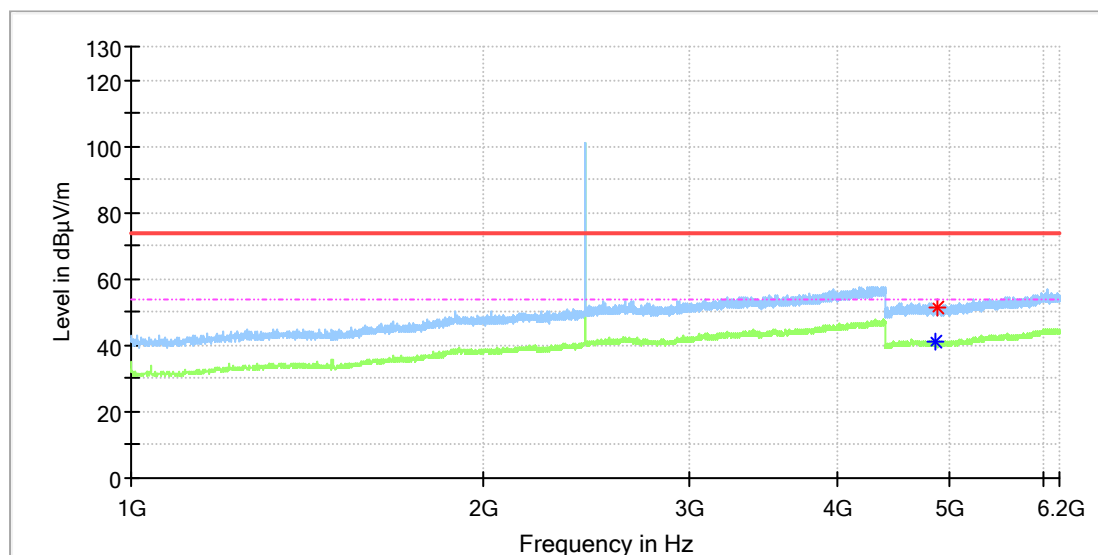
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
169.053000	19.37	43.50	24.13	1000.0	120.000	100.0	V	311.0	20.2

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168511285/A003851906-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

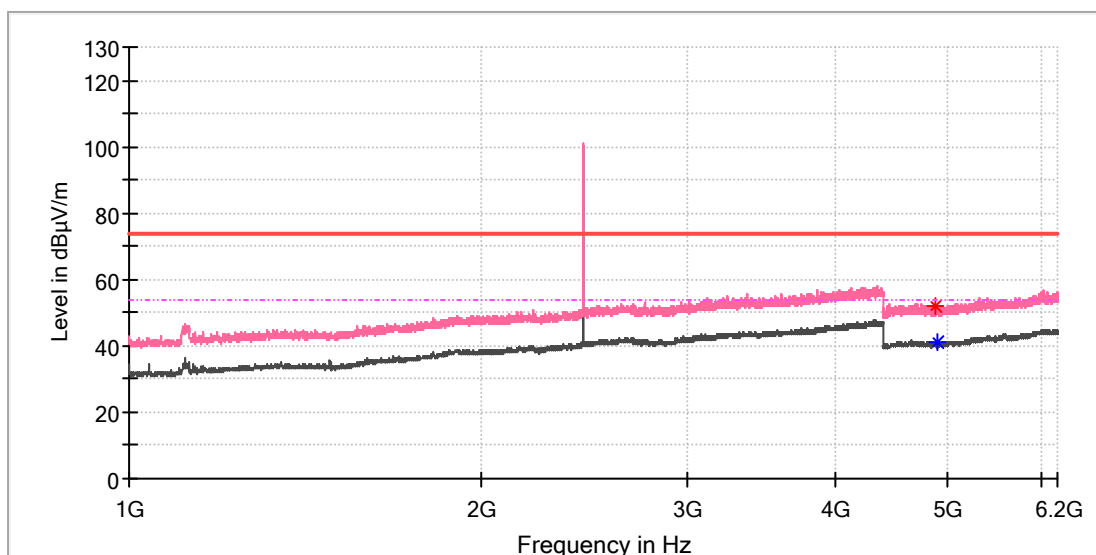


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4863.000000	---	41.33	54.00	12.67	150.0	H	280.0	13.3
4882.500000	51.53	---	74.00	22.47	150.0	H	54.0	13.3

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168511285/A003851906-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

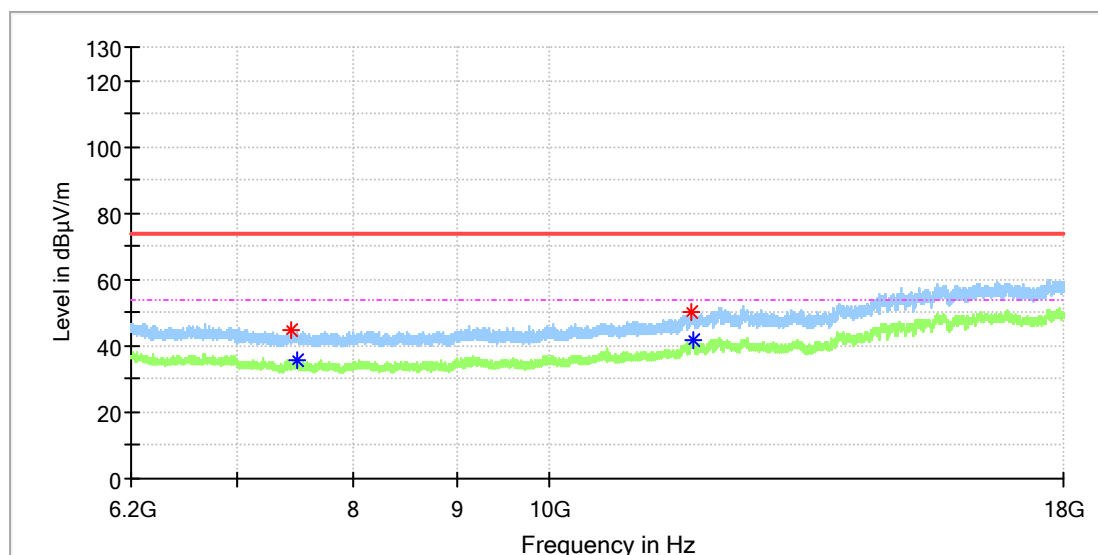


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.000000	51.74	---	74.00	22.26	150.0	V	157.0	13.3
4900.500000	---	40.83	54.00	13.17	150.0	V	291.0	13.3

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168511285/A003851906-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

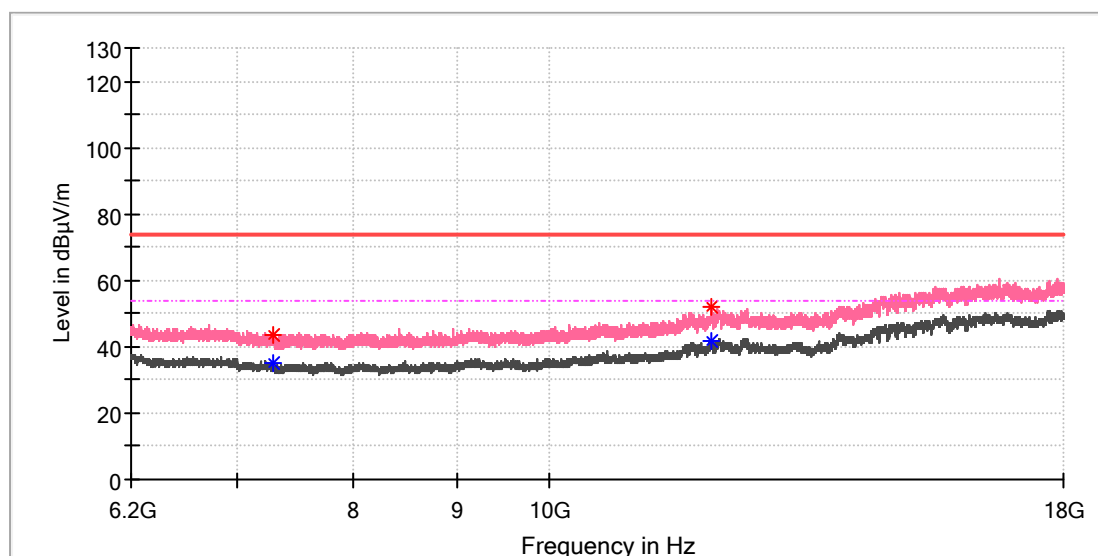


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7452.766667	44.78	---	74.00	29.22	150.0	H	188.0	8.5
7494.066667	---	35.52	54.00	18.48	150.0	H	231.0	8.7
11753.375000	50.17	---	74.00	23.83	150.0	H	258.0	15.5
11785.825000	---	41.54	54.00	12.46	150.0	H	294.0	15.0

EUT Information

EUT Name: Push 720 Open
Model: S40EW
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168511285/A003851906-001
Test Voltage:: Battery
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)
7285.600000	---	35.23	54.00	18.77	150.0	V	223.0	8.4
7286.091667	43.60	---	74.00	30.40	150.0	V	90.0	8.4
12024.775000	---	41.71	54.00	12.29	150.0	V	102.0	15.8
12041.983333	51.72	---	74.00	22.28	150.0	V	15.0	16.2

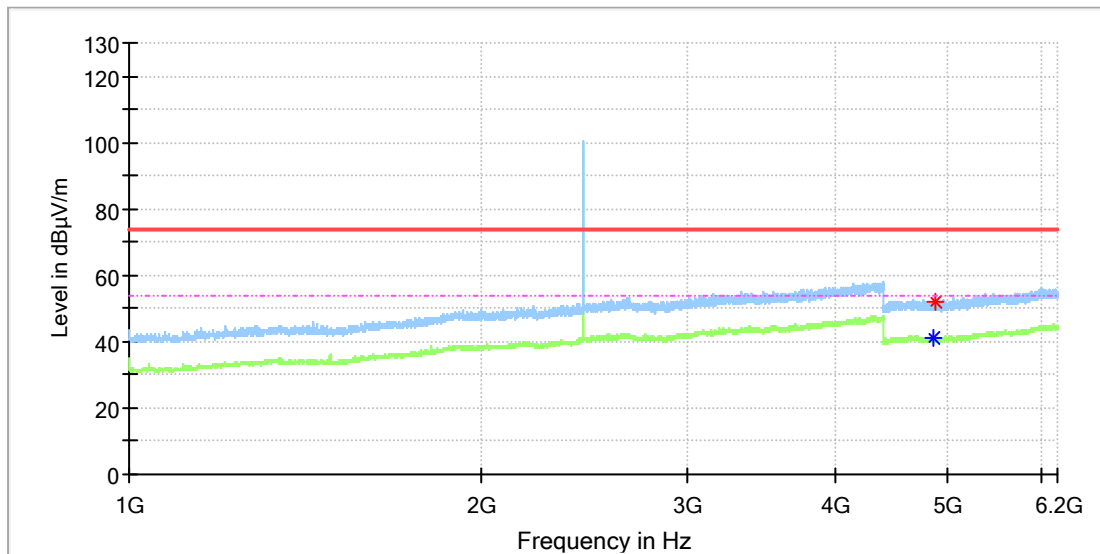
For Right earbud

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Push 720 Open
Model:	S4OEW
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168511285/A003851906-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

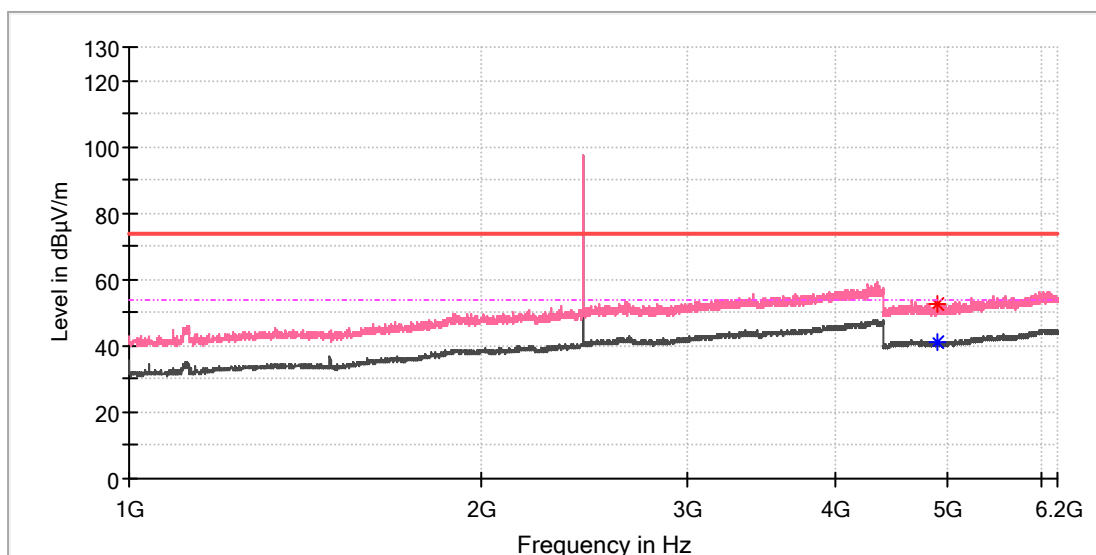


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4851.000000	---	41.10	54.00	12.90	150.0	H	23.0	13.3
4882.500000	51.78	---	74.00	22.22	150.0	H	134.0	13.3

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168511285/A003851906-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

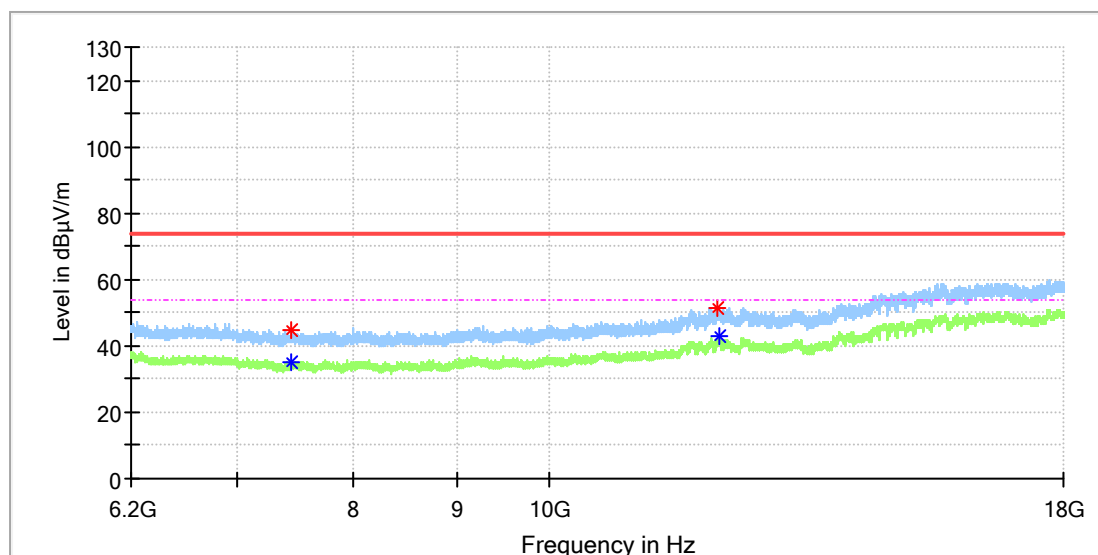


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4891.500000	52.36	---	74.00	21.64	150.0	V	13.0	13.3
4900.000000	---	40.92	54.00	13.08	150.0	V	243.0	13.3

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168511285/A003851906-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

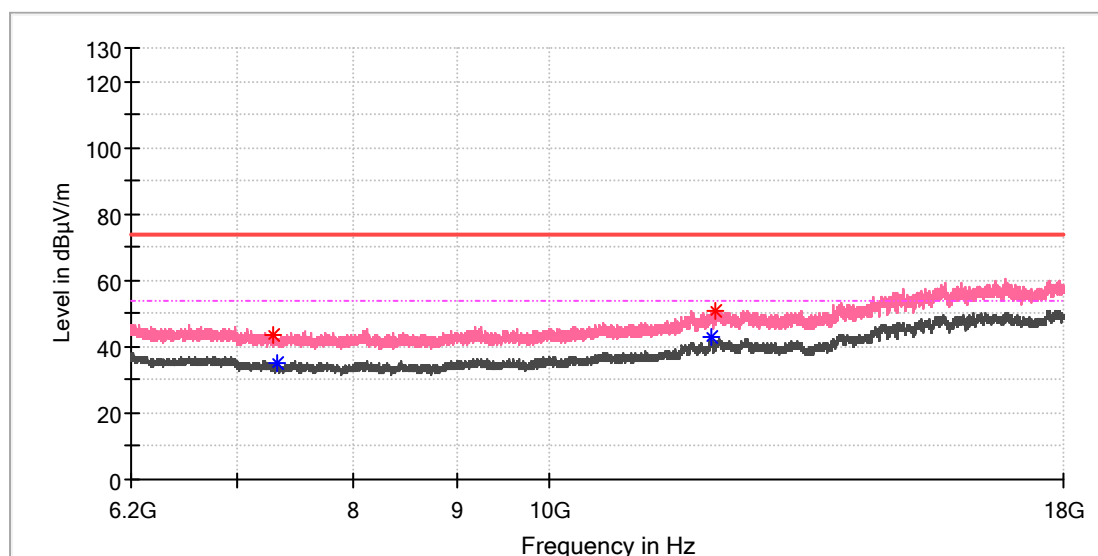


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7441.458333	---	35.19	54.00	18.81	150.0	H	33.0	8.4
7446.866667	44.71	---	74.00	29.29	150.0	H	0.0	8.5
12129.500000	51.42	---	74.00	22.58	150.0	H	316.0	16.2
12150.641667	---	42.95	54.00	11.05	150.0	H	259.0	16.7

EUT Information

EUT Name: Push 720 Open
Model: S40EW
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168511285/A003851906-002
Test Voltage:: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

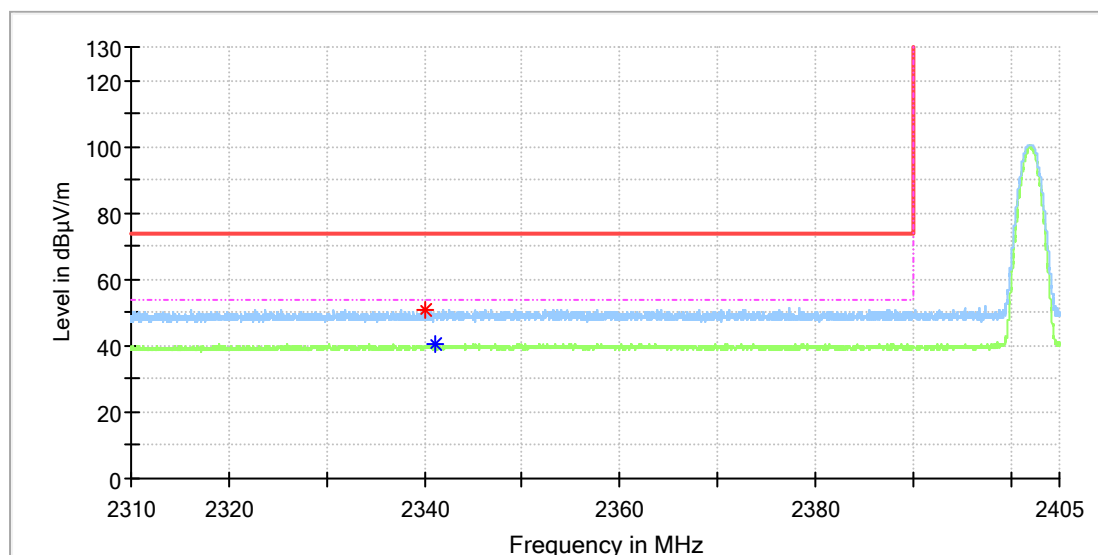
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7285.600000	43.82	---	74.00	30.18	150.0	V	255.0	8.4
7322.966667	---	35.16	54.00	18.84	150.0	V	302.0	8.2
12041.983333	---	42.68	54.00	11.32	150.0	V	255.0	16.2
12099.016667	50.92	---	74.00	23.08	150.0	V	0.0	15.4

Appendix B.8: Test Results of Radiated Emissions in Restricted Bands

For left earbud

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168511285/A003851906-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

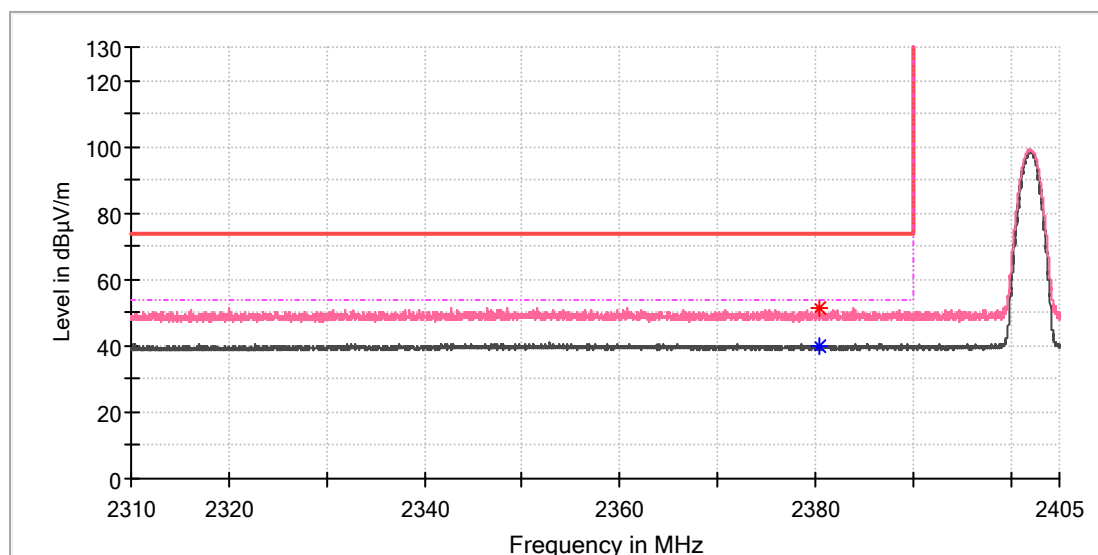


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2340.029412	50.95	---	74.00	23.05	150.0	H	345.0	8.4
2341.058824	---	40.48	54.00	13.52	150.0	H	205.0	8.4

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168511285/A003851906-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

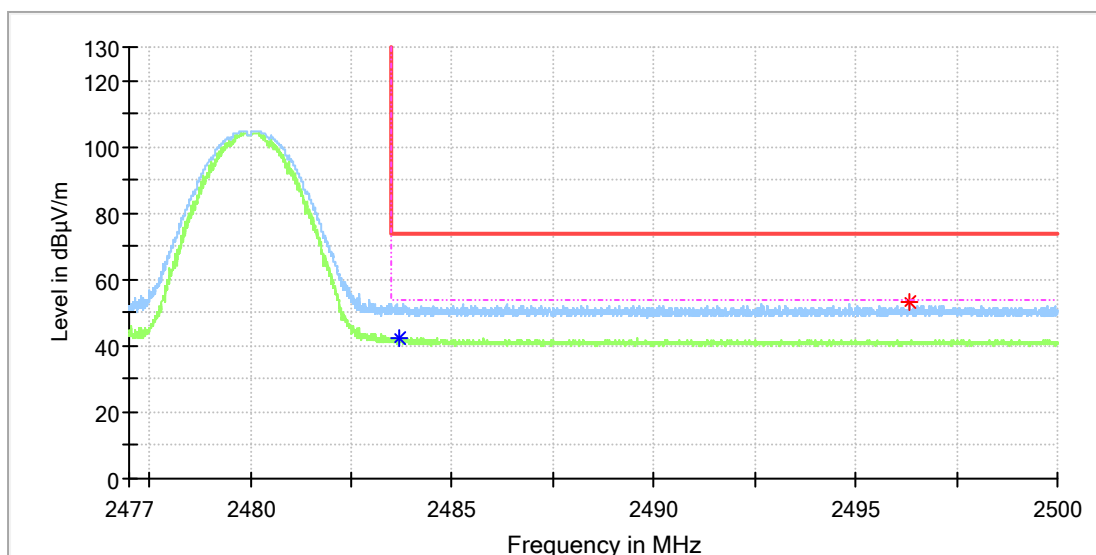


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2380.382353	51.53	---	74.00	22.47	150.0	V	87.0	8.5
2380.500000	---	40.15	54.00	13.85	150.0	V	290.0	8.5

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168511285/A003851906-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

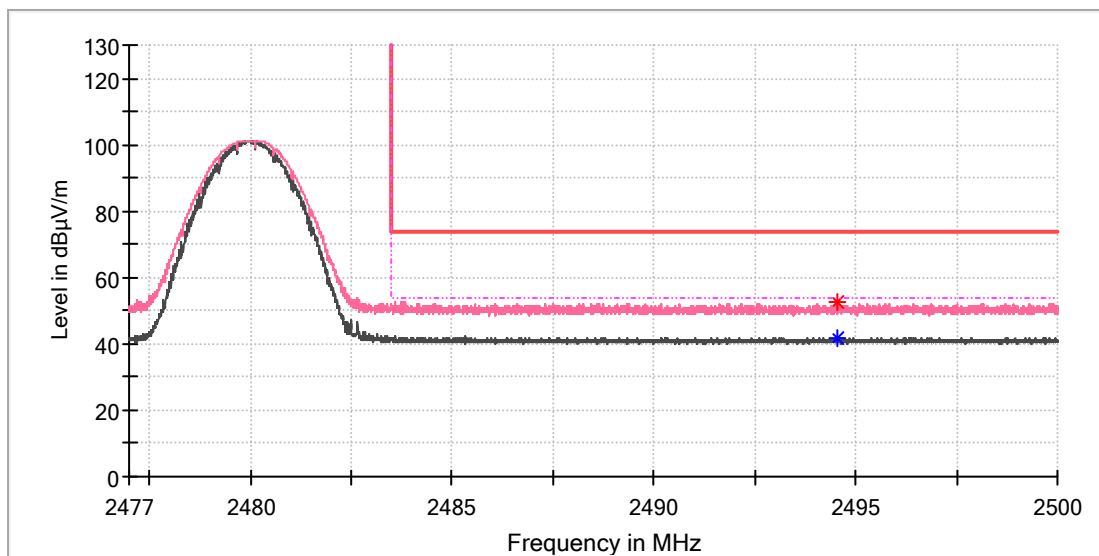


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.698530	---	42.57	54.00	11.43	150.0	H	269.0	9.0
2496.312500	52.93	---	74.00	21.07	150.0	H	116.0	9.0

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168511285/A003851906-001
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



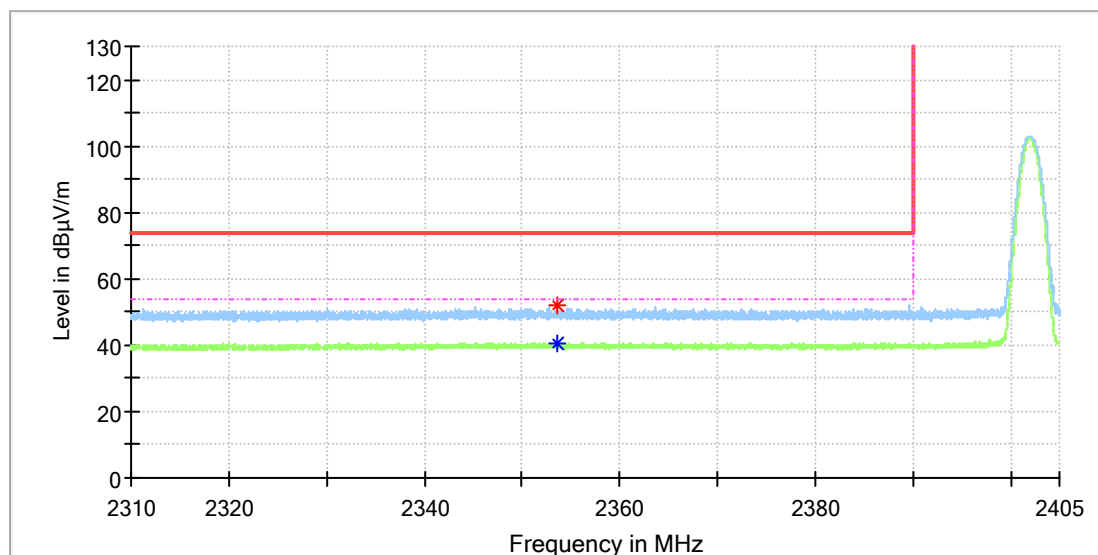
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2494.533088	---	41.46	54.00	12.54	150.0	V	82.0	9.0
2494.540441	52.70	---	74.00	21.30	150.0	V	275.0	9.0

For Right earbud

EUT Information

EUT Name:	Push 720 Open
Model:	S4OEW
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168511285/A003851906-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

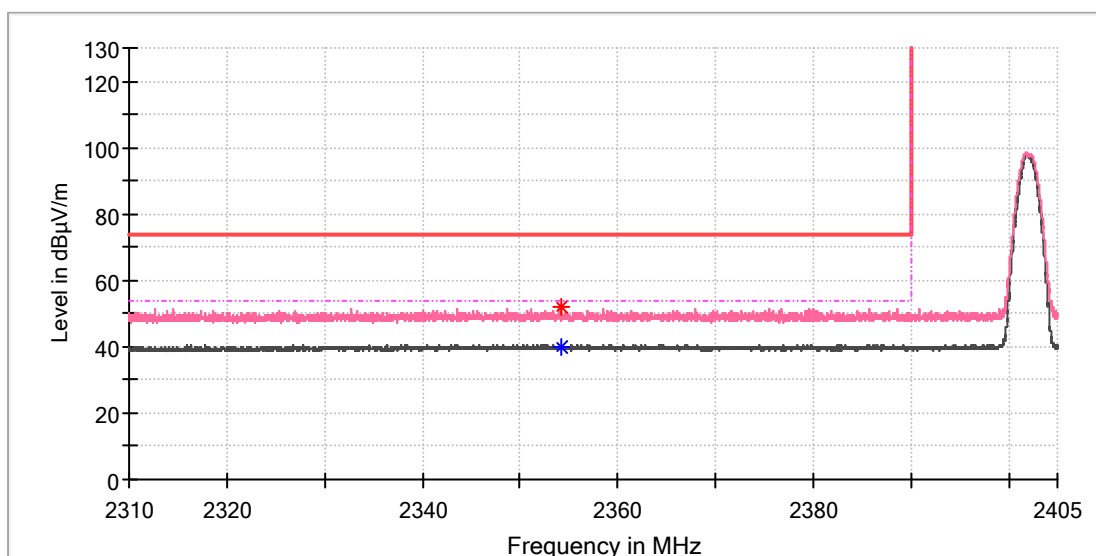


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.617647	51.82	---	74.00	22.18	150.0	H	292.0	8.5
2353.632353	---	40.35	54.00	13.65	150.0	H	110.0	8.5

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168511285/A003851906-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

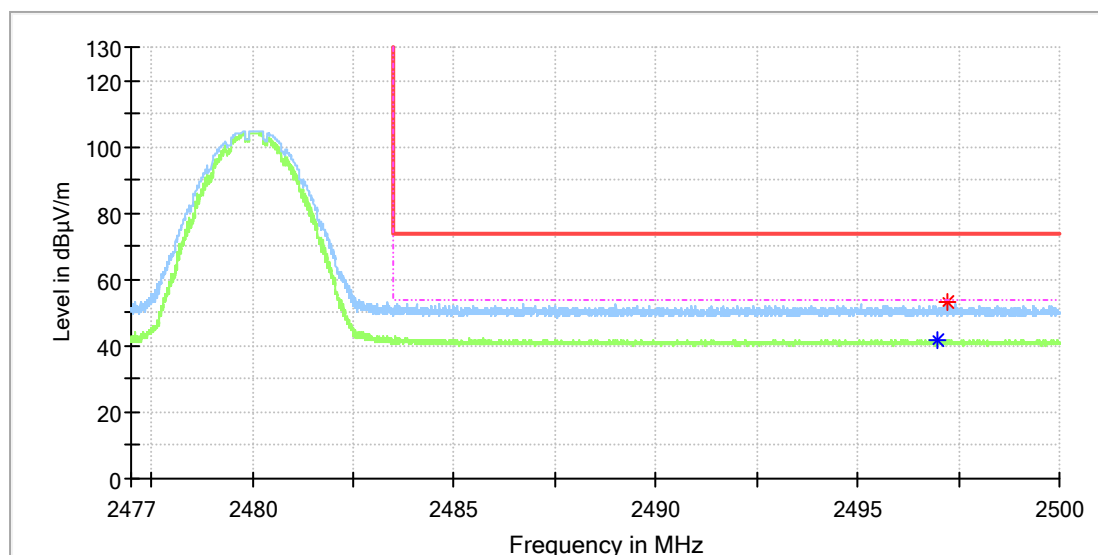


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2354.264706	---	40.11	54.00	13.89	150.0	V	357.0	8.5
2354.279412	51.73	---	74.00	22.27	150.0	V	254.0	8.5

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168511285/A003851906-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

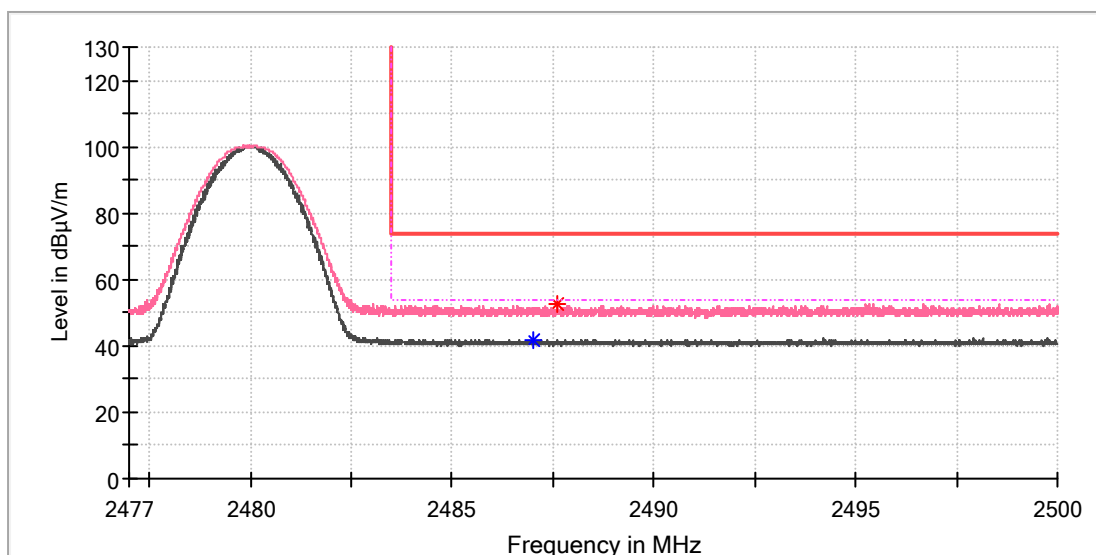


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2496.963235	---	41.55	54.00	12.45	150.0	H	313.0	9.0
2497.235294	53.23	---	74.00	20.77	150.0	H	320.0	9.0

EUT Information

EUT Name:	Push 720 Open
Model:	S40EW
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168511285/A003851906-002
Test Voltage::	Battery
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)
2487.029412	---	42.01	54.00	11.99	150.0	V	26.0	9.0
2487.628677	52.36	---	74.00	21.64	150.0	V	33.0	9.0