



Spot Check Evaluation

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Smart Watch
BRAND NAME : Motorola
MODEL NAME : XT2647-4
FCC ID : IHDT56AW9
STANDARD : 47 CFR Part 22(H), 24(E), 27(L), 27(M), 27(H),
27(F), 90(S)
47 CFR Part 15 Subpart C §15.225
47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
TEST DATE(S) : Mar. 31, 2026 ~ May 09, 2026

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

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
611901-01	Rev. 01	Initial issue of report	May 11, 2026

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Watch
Brand Name	Motorola
Model Name	XT2647-4
FCC ID	IHDT56AW9
IMEI/SN Code	Conducted: HMJ006C4 for Bluetooth/WLAN 351602008128265 for WWAN Radiation: HMJ006CS
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

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

1.5 Testing Site

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-KS 03CH04-KS 03CH06-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH02-KS	AUDIX	E3	6.2009-8-24al
3.	03CH04-KS	AUDIX	E3	210616
4.	03CH06-KS	AUDIX	E3	210616

1.7 Applicable Standards

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

- ♦ FCC KDB 484596 D01 Referencing Test Data v03
- ♦ 47 CFR Part 22(H), 24(E), 27(L), 27(M), 27(H), 27(F), 90(S)
- ♦ 47 CFR Part 15 Subpart C §15.225
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407
- ♦ ANSI C63.10-2020+Cor.1-2023
- ♦ ANSI C63.26-2015



2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2647-4, FCC ID: IHDT56AW9) is electrically identical to the reference device (Model: XT2647-1, XT2647-2, XT2647V, FCC ID: IHDT56AW6) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v03.

ECR Data Referencing Inquiry has been approved by TCB, and the data referencing and spot check test plan includes RF/EMC, the details are presented in section 2.3 of this report, and for SAR Reference detail, please refer to FCC SAR report FA611901-01.

The criteria set in section 3 of KDB 484596 D01 v03 is followed to determine whether the data referencing is justified. For SAR, the higher between the referenced value and the spot check value is used to determine compliance in both standalone and simultaneous transmission conditions

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AW9 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AW6 and FCC ID: IHDT56AW9 is as below:

- Remove LTE B25/71.
- Add WCDMA BI/III/IV/V/VIII and LTE B1/3/8/18/19/20/28/38/40/41.

Other differences and all the details of similarity and difference can be found in the confidential documents (Data referencing for different Skus).



2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Reference on test	Reference Title	FCC ID Filling (Variant)	Test on the variant	Data Referencing (Y/N)
15C	DSS (BR/EDR)	2400~2483.5	IHDT56AW6	Full test	FR611901A	IHDT56AW9	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AW6	Full test	FR611901B	IHDT56AW9	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AW6	Full test	FR611901C	IHDT56AW9	Spot check	Y, All test items
	DXX (NFC)	13.56	IHDT56AW6	Full test	FR611901D	IHDT56AW9	Spot check	Y, All test items
15E	U-NII	5180~5240	IHDT56AW6	Full test	FR611901E	IHDT56AW9	Spot check	Y, All test items
		5260~5320	IHDT56AW6	Full test	FR611901E	IHDT56AW9	Spot check	Y, All test items
		5500~5720	IHDT56AW6	Full test	FR611901E	IHDT56AW9	Spot check	Y, All test items
		5745~5825	IHDT56AW6	Full test	FR611901E	IHDT56AW9	Spot check	Y, All test items
		5260~5320 5500~5720	IHDT56AW6	Full test	FZ611901	IHDT56AW9	Spot check	Y, All test items
22, 24, 27, 90	PCT (LTE)	B2/4/5/12/13/17/26/66	IHDT56AW6	Full test	FG611901A FG611901B FG611901C	IHDT56AW9	Spot check	Y, All test items

Y: Pointer to spot-check exhibit; N: Pointer to full test exhibit

2.4 Spot Check Verification Data Section

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \quad (1)$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB}, \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB}, \text{ for } M_{dB} > 60 \text{ dB}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.

Summary for spot check for each rule entry and technology is listed as below:

Summary for spot check for each rule entry and technology is listed as below:

Test Item	Mode	IHDT56AW6 Parent Worst mode Test Result	IHDT56AW9 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR 1Mbps	16.53	16.44	0.09	3
	BT BR/EDR 2Mbps	12.59	12.57	0.02	3
	BT BR/EDR 3Mbps	12.73	12.51	0.22	3
	BLE 1Mbps CH19	10.15	10.06	0.09	3
	BLE 2Mbps CH19	9.71	9.67	0.04	3
	BLE 125K CH19	10.17	10.05	0.12	3
	BLE 500K CH19	10.20	10.02	0.18	3
	11b, 2.4GHz CH11	16.70	16.67	0.03	3
	11g, 2.4GHz CH01	17.23	17.21	0.02	3
	11n HT20, 2.4GHz CH11	16.81	16.79	0.02	3
	11a, 5.2GHz CH48	15.81	15.62	0.19	3
	11a, 5.3GHz CH56	16.18	15.94	0.24	3
	11a, 5.5GHz CH140	16.09	16.04	0.05	3
	11a, 5.8GHz CH149	16.42	16.41	0.01	3
	11n HT20, 5.2GHz CH48	15.83	15.58	0.25	3
	11n HT20, 5.3GHz CH56	16.10	15.83	0.27	3
	11n HT20, 5.5GHz CH132	16.25	15.80	0.45	3
	11n HT20, 5.8GHz CH149	16.45	16.41	0.04	3
	LTE B13	23.01	22.98	0.03	3

Test Item	Mode	IHDT56AW6 Parent Worst mode Test Result	IHDT56AW9 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Radiated Spurious Emission(dBuV/m)	Bluetooth BR CH78	56.24	55.49	0.75	3
	Bluetooth-LE CH39(2M)	48.55	45.59	2.96	3
	802.11g CH11	50.13	49.65	0.48	3
	802.11n20 CH64	45.33	48.22	2.89	3
	802.11n20 CH165	55.33	55.1	0.23	3
	NFC	9.42	8.15	1.27	3
Radiated Spurious Emission(dBm)	Part 27F LTE B13 BW=5M	-58.27	-55.84	2.43	3

Conclusion:

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. All spot check test data are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v03 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 List of Measuring Equipment

For NFC:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Ma x 30dBm	Oct. 10, 2025	Apr. 07, 2026	Oct. 09, 2026	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Apr. 07, 2026	Aug. 09, 2026	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz~1GHz	Aug. 12, 2025	Apr. 07, 2026	Aug. 11, 2026	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Dec. 25, 2025	Apr. 07, 2026	Dec. 24, 2026	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Apr. 07, 2026	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Apr. 07, 2026	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Apr. 07, 2026	NCR	Radiation (03CH02-KS)

For BT/WIFI:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Apr. 08, 2026	Jul. 06, 2026	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jul. 07, 2025	Apr. 08, 2026	Jul. 06, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Dec. 25, 2025	Apr. 08, 2026	Dec. 24, 2026	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290157	3Hz~8.5GHz;Ma x 30dBm	Feb. 21, 2026	Mar. 31, 2026~May 09, 2026	Feb. 20, 2027	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jul. 03, 2025	Mar. 31, 2026~May 09, 2026	Jul. 02, 2026	Radiation (03CH06-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Mar. 31, 2026~May 09, 2026	Aug. 09, 2026	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Mar. 23, 2026	Mar. 31, 2026~May 09, 2026	Mar. 22, 2027	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jun. 26, 2025	Mar. 31, 2026~May 09, 2026	Jun. 25, 2026	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 18, 2025	Mar. 31, 2026~May 09, 2026	Oct. 17, 2026	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 03, 2025	Mar. 31, 2026~May 09, 2026	Jul. 02, 2026	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Dec. 26, 2025	Mar. 31, 2026~May 09, 2026	Dec. 25, 2026	Radiation (03CH06-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Dec. 25, 2025	Mar. 31, 2026~May 09, 2026	Dec. 24, 2026	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY57280119	500MHz~26.5G Hz	Oct. 10, 2025	Mar. 31, 2026~May 09, 2026	Oct. 09, 2026	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 31, 2026~May 09, 2026	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 31, 2026~May 09, 2026	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 31, 2026~May 09, 2026	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required.

**For WWAN Bands:**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Apr. 21, 2026	Jul. 06, 2026	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Apr. 21, 2026	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 02, 2025	Apr. 21, 2026	Jul. 01, 2026	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 10, 2025	Apr. 08, 2026	Oct. 09, 2026	Radiation (03CH04-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Apr. 08, 2026	Aug. 09, 2026	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 22, 2025	Apr. 08, 2026	Nov. 21, 2026	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 22, 2025	Apr. 08, 2026	Aug. 21, 2026	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 10, 2026	Apr. 08, 2026	Jan. 09, 2027	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 02, 2025	Apr. 08, 2026	Jul. 01, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060852	18~40GHz	Dec. 24, 2025	Apr. 08, 2026	Dec. 23, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060890	1Ghz-18Ghz	May 23, 2025	Apr. 08, 2026	May 22, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 11, 2025	Apr. 08, 2026	Oct. 10, 2026	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 08, 2026	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 08, 2026	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 08, 2026	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required.

4 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 0.90 dB

03CH02-KS(NFC):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.18 dB
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03CH06-KS(BT/WIF):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.18 dB
---	---------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.36 dB
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03CH04-KS(WWAN):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.82 dB
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-THE END-



Appendix B. Co-location Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

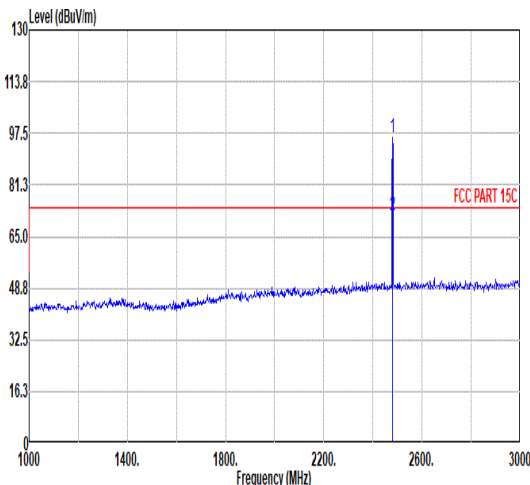
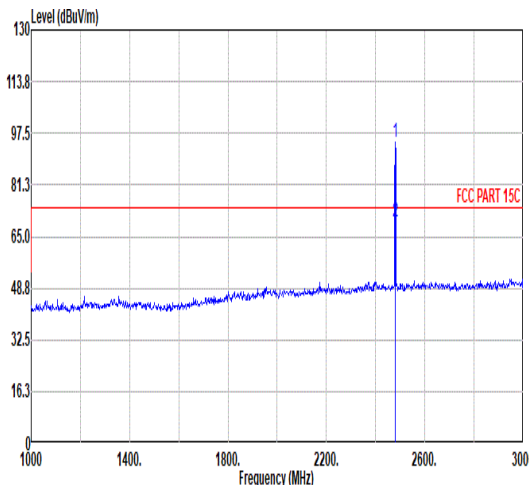
Co-location Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	2400-2483.5	2	Bluetooth BR_GFSK	78	2480	-	-	-
	U-NII-2A	5.25-5.35	4	802.11n HT20	64	5320	MCS0	-	-
	WCDMA V								

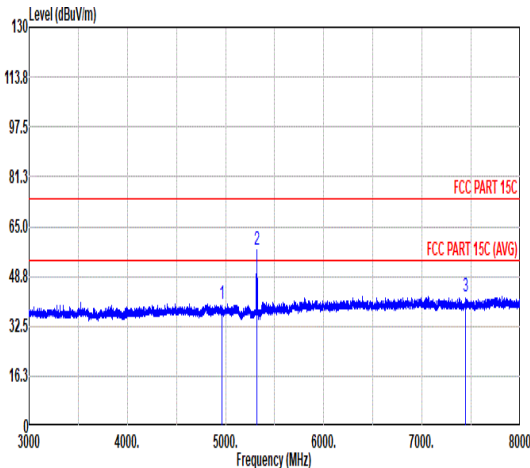
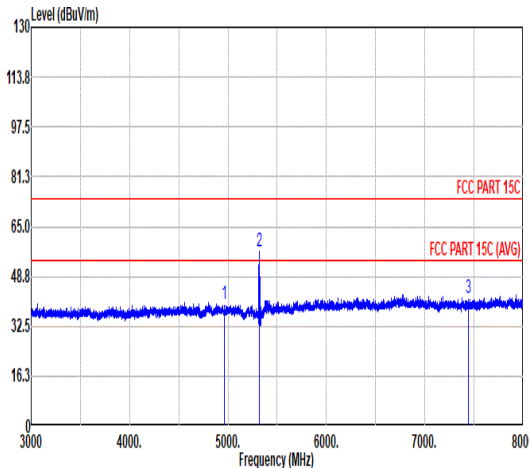
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	78	7440.00	42.43	74.00	-31.57	H	PEAK	Pass	Harmonic
	802.11n HT20	64	10640.00	43.40	74.00	-30.60	H	PEAK	Pass	Harmonic



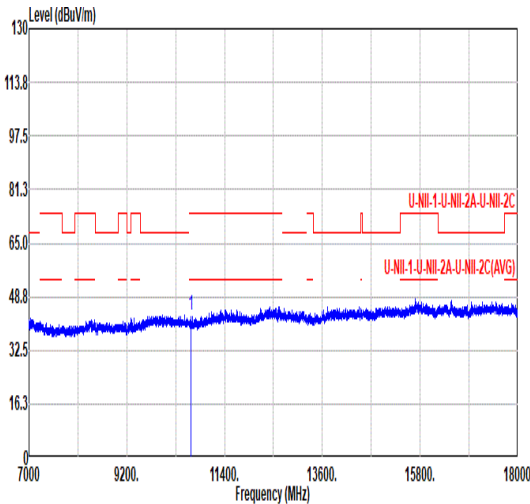
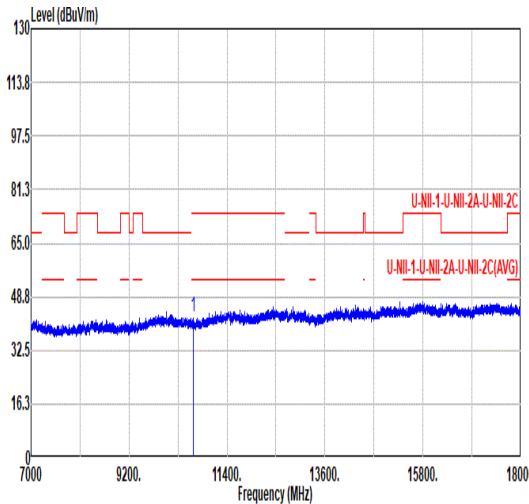
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Note: #2 is WLAN 5G co-location fundamental signals and can be ignored.



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