



Spot Check Evaluation

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2527-2
FCC ID : IHDT56AV4
STANDARD : 47 CFR Part 22(H), 24(E), 27(M), 27(Q), 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) : Apr. 05, 2025 ~ Apr. 27, 2025

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.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen)

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
FG530724-01E	Rev. 01	Initial issue of report	Apr. 30, 2025

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	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2527-2
FCC ID	IHDT56AV4
IMEI Code	Conducted/DFS: 258674600017032/258674600017040 Radiation: 358674600016810/358674600016828 Conduction: 358674600016612/358674600016620
HW Version	DVT2
SW Version	V2VN35.50
EUT Stage	Identical Prototype

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.
	TH01-KS DFS01-KS	CN1257	314309

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO02-SZ 03CH02-SZ 03CH03-SZ 03CH05-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	DFS01-KS	Sporton	Test Tools	1.0
3.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
4.	03CH03-SZ	AUDIX	E3	6.2009-8-24
5.	03CH05-SZ	AUDIX	E3	6.2009-8-24a1
6.	CO02-SZ	AUDIX	E3	6.120613b

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 v02r03
- 47 CFR Part 22(H), 24(E), 27(M), 27(Q), 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 C63.10-2013
- ANSI C63.26-2015

1.8 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-331L
AC Adapter 1(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-332L
AC Adapter 1(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-333L
AC Adapter 1(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-335L
AC Adapter 1(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-336L
AC Adapter 1(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-337L
AC Adapter 2(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-331L
AC Adapter 2(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-332L
AC Adapter 2(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-333L
AC Adapter 2(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-336L
AC Adapter 2(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-337L
Battery 1	Brand Name	Motorola(NVT)	Model Name	RA52
Battery 2	Brand Name	Motorola(SUNWODA)	Model Name	RA52
USB Cable 1	Brand Name	Motorola(Washin)	Model Name	HX-ZN-34
USB Cable 2	Brand Name	Motorola(Juwei)	Model Name	JWUB1928-ZN01H
Earphone	Brand Name	Motorola (Juwei)	Model Name	ZN80400118H001



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: XT2527-2, FCC ID: IHDT56AV4) is electrically identical to the reference device (Model: XT2527-1, FCC ID: IHDT56AV5) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

ECR Data Referencing Inquiry has been approved by FCC, 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 FA530724-01.

The criteria set in section 3 of KDB 484596 D01 v02r03 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: IHDT56AV4 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AV5 and FCC ID: IHDT56AV4 is as below:

- Remove WCDMA B4, LTE B4/12/13/17/25/66 and 5G NR n2/n66.
- Add LTE B20/32/71/38C/41C and 5G NR n8/n20/n71.
- B41/B41C/n77/n78 Enable PC2 by software.
- Add NSA mode for 5G NR n5/n77.

Other differences and all the details of similarity and difference can be found in the confidential documents (IHDT56AV4 Operational Description of Product Equality Declaration).



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	IHDT56AV5	Full test	FR530724A	IHDT56AV4	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AV5	Full test	FR530724B	IHDT56AV4	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AV5	Full test	FR530724C	IHDT56AV4	Spot check	Y, All test items
	DXX (NFC)	13.56	IHDT56AV5	Full test	FR530724D	IHDT56AV4	Spot check	Y, All test items
15E	U-NII	5180~5240	IHDT56AV5	Full test	FR530724E	IHDT56AV4	Spot check	Y, All test items
		5260~5320	IHDT56AV5	Full test	FR530724E	IHDT56AV4	Spot check	Y, All test items
		5500~5720	IHDT56AV5	Full test	FR530724E	IHDT56AV4	Spot check	Y, All test items
		5745~5825	IHDT56AV5	Full test	FR530724E	IHDT56AV4	Spot check	Y, All test items
		5260~5320 5500~5720	IHDT56AV5	Full test	FZ530724	IHDT56AV4	Spot check	Y, All test items
22, 24, 27, 90,	PCE (GSM)	GSM 850/1900	IHDT56AV5	Full test	FG530724A	IHDT56AV4	Spot check	Y, All test items
	PCE (WCDMA)	Band II, V	IHDT56AV5	Full test	FG530724A	IHDT56AV4	Spot check	Y, All test items
	PCE (LTE)	B5/26/7/7C/42	IHDT56AV5	Full test	FG530724B FG530724C FG530724E FG530724F	IHDT56AV4	Spot check	Y, All test items
	PCE (LTE)	B26 (90S)	IHDT56AV5	Full test	FG530724D	IHDT56AV4	Spot check	Y, All test items
	PCE (LTE)	B2/38/38C/41/41C/71	-	-	-	-	-	N

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

Remark: All 5G NR spot check or full test bands are not included in this report and will be issued separately.

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:

Mode	Test Item	IHDT56AV5 Parent Worst mode Test Result	IHDT56AV4 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
BT 1Mbps (CH78)	Number of Channels	79	79	0	3
	Hopping Channel Separation	0.991	0.998	0.007	3
	Dwell Time of Each Channel	0.31	0.31	0	3
	20dB Bandwidth	0.86	0.86	0	3
	99% Bandwidth	0.758	0.758	0	3
	Conducted Band Edges	-46.95	-46.67	0.28	3
	Conducted Spurious Emission	-36.21	-36.45	0.24	3
BT 1Mbps (CH78)	Radiated Band Edges and Radiated Spurious Emission	46.35	46.95	0.6	3
BT	AC Conducted Emission	7.98	8.08	0.1	3
BLE 2Mbps (CH38)	6dB Bandwidth	1.18	1.17	0.01	3
	99% Bandwidth	2.054	2.054	0	3
	Power Spectral Density	-5	-5.08	0.08	3
	Conducted Band Edges	-46.83	-47.02	0.19	3
	Conducted Spurious Emission	-35.82	-35.51	0.31	3
BLE 2Mbps (CH39)	Radiated Band Edges and Spurious Emission	41.54	41.29	0.25	3
BLE	AC Conducted Emission	7.98	8.08	0.1	3
WIFI 2.4G	6dB Bandwidth	17.24	17.96	0.72	3



(802.11ax20 CH01)	99% Bandwidth	19.341	19.5	0.159	3
	Power Spectral Density	-7.83	-8.05	0.22	3
	Conducted Band Edges	-18.38	-18.82	0.44	3
	Conducted Spurious Emission	-36.09	-35.22	0.87	3
WIFI 2.4G (802.11g CH11)	Radiated Band Edges and Spurious Emission	50.75	49.21	1.54	3
WIFI 2.4G	AC Conducted Emission	7.98	8.08	0.1	3
FCC-WIFI 5G (802.11ax20 CH149)	26dB Bandwidth	29	28.06	0.94	3
FCC-WIFI 5G (802.11ax20 CH149)	99% Bandwidth	19.341	19.295	0.046	3
FCC-WIFI 5G (802.11ax20 CH149)	Power Spectral Density	3.98	3.93	0.05	3
FCC-WIFI 5G (802.11ax20 CH149)	Unwanted Emissions	17.52	18.14	0.62	3
WIFI 5G (802.11ax HE80 CH106)	DFS	0.91522	0.830828	0.084392	3
5G WIFI 11ax HE20_CH64	Radiated Band Edges and Spurious Emission	50.65	50.01	0.64	3
WIFI 5G	AC Conducted Emission	8.68	9.38	0.7	3
NFC	20dB Emission Bandwidth (MHz)	2.48	2.48	0	3
	99% Occupied Bandwidth (MHz)	2.10	2.11	0.01	3
	Frequency Stability	-0.5531	-0.5045	0.0486	3
	Field Strength of Fundamental (dBuV/m)	55.24	55.48	0.24	3
	Radiated Spurious Emissions (dBuV/m)	36.16	33.85	2.31	3
	AC Power Line Conducted Emissions(dBuV)	9.75	8.40	1.35	3
Part 22/24/27/90 (LTE Band 7C)	Equivalent Isotropic Radiated Power	20.47	20.15	0.32	3
	Peak-to-Average Ratio	6.41	6.22	0.19	3
	Occupied Bandwidth	28.77	28.89	0.12	3
	Conducted Band Edge	-26.22	-27.35	1.13	3
	Conducted Spurious Emission	-51.75	-53.16	1.41	3
Part 22/24/27/90 (GSM 850)	Frequency Stability	0.0012	0.0027	0.0015	3
	Radiated Spurious Emission	-34.48	-32.78	1.7	3



Test Item	Mode	IHDT56AV5 Parent Worst mode Test Result	IHDT56AV4 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	16.74	15.87	0.87	3
	BLE 1Mbps	11.92	11.67	0.25	3
	BLE 2Mbps	11.96	11.64	0.32	3
	11b, 2.4GHz	18.51	18.18	0.33	3
	11g, 2.4GHz	18.57	18.47	0.10	3
	11n HT20, 2.4GHz	18.59	18.25	0.34	3
	11n HT40, 2.4GHz	16.86	16.59	0.33	3
	11ax HE20, 2.4GHz	18.69	18.50	0.19	3
	11ax HE40, 2.4GHz	17.05	17.59	0.54	3
	11a, 5.2GHz	18.24	18.21	0.03	3
	11a, 5.3GHz	18.30	18.26	0.04	3
	11a, 5.5GHz	18.01	17.96	0.05	3
	11a, 5.8GHz	17.92	17.86	0.06	3
	11n HT20, 5.2GHz	18.07	17.92	0.15	3
	11n HT20, 5.3GHz	18.27	18.11	0.16	3
	11n HT20, 5.5GHz	18.08	17.97	0.11	3
	11n HT20, 5.8GHz	17.81	17.61	0.20	3
	11ac VHT20, 5.2GHz	18.12	18.04	0.08	3
	11ac VHT20, 5.3GHz	18.34	18.21	0.13	3
	11ac VHT20, 5.5GHz	18.12	18.03	0.09	3
	11ac VHT20, 5.8GHz	17.88	17.81	0.07	3
	11ax HE20, 5.2GHz	18.23	18.18	0.05	3
	11ax HE20, 5.3GHz	18.41	18.36	0.05	3
	11ax HE20, 5.5GHz	18.21	18.18	0.03	3
	11ax HE20, 5.8GHz	17.97	17.93	0.04	3
	11n HT40, 5.2GHz	17.29	17.21	0.08	3
	11n HT40, 5.3GHz	17.70	17.62	0.08	3
	11n HT40, 5.5GHz	17.19	17.07	0.12	3
	11n HT40, 5.8GHz	17.18	17.12	0.06	3
	11ac VHT40, 5.2GHz	17.36	17.35	0.01	3
	11ac VHT40, 5.3GHz	17.73	17.71	0.02	3
	11ac VHT40, 5.5GHz	17.25	17.21	0.04	3
	11ac VHT40, 5.8GHz	17.24	17.22	0.02	3
	11ax HE40, 5.2GHz	17.47	17.41	0.06	3
	11ax HE40, 5.3GHz	17.82	17.77	0.05	3
	11ax HE40, 5.5GHz	17.37	17.34	0.03	3
	11ax HE40, 5.8GHz	17.34	17.30	0.04	3
	11ac VHT80, 5.2GHz	16.33	16.26	0.07	3
	11ac VHT80, 5.3GHz	16.46	16.30	0.16	3
	11ac VHT80, 5.5GHz	16.27	16.23	0.04	3
	11ac VHT80, 5.8GHz	16.20	16.19	0.01	3
	11ax HE80, 5.2GHz	16.43	16.38	0.05	3
	11ax HE80, 5.3GHz	16.58	16.55	0.03	3
	11ax HE80, 5.5GHz	16.38	16.34	0.04	3
	11ax HE80, 5.8GHz	16.33	16.30	0.03	3
	GSM 850	31.76	31.65	0.11	3
	GSM 1900	28.52	28.24	0.28	3
	WCDMA 850	22.58	22.53	0.05	3
	WCDMA 1900	22.70	22.65	0.05	3
	LTE B5	22.59	22.49	0.1	3
	LTE B26	22.65	22.54	0.11	3



	LTE B26-90S	22.81	22.48	0.33	3
	LTE B7	22.84	22.72	0.12	3
	LTE B42	23.04	22.92	0.12	3
	LTE B7C	22.77	22.45	0.32	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 v02r03 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 BT/WIFI:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Apr. 23, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Apr. 23, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Apr. 23, 2025	Jan. 01, 2026	Conducted (TH01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 08, 2025	Apr. 16, 2025	Apr. 07, 2026	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 08, 2025	Apr. 16, 2025	Apr. 07, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Apr. 16, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 20, 2023	Apr. 16, 2025	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2025	Apr. 16, 2025	Apr. 07, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Apr. 16, 2025	Jul. 02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 08, 2025	Apr. 16, 2025	Apr. 07, 2026	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2024	Apr. 16, 2025	Oct. 17, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Apr. 16, 2025	Oct. 13, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Apr. 16, 2025	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2024	Apr. 16, 2025	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 16, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 16, 2025	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	Apr. 17, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Apr. 17, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec. 25, 2024	Apr. 17, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
Spectrum Analyzer	R&S	FSV7	101632	10Hz~7GHz	Jan. 03, 2025	Apr. 16, 2025	Jan. 02, 2026	Conducted (DFS01-KS)
Signal Generator	KEYSIGHT	N5182B	MY53050604	9KHz~6GHz	Apr. 17, 2024	Apr. 16, 2025	Apr. 16, 2025	Conducted (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Apr. 16, 2025	NCR	Conducted (DFS01-KS)

NCR: No Calibration Required.

**For NFC:**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 08, 2025	Apr. 23, 2025	Apr. 07, 2026	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 08, 2025	Apr. 23, 2025	Apr. 07, 2026	Radiation (03CH05-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Apr. 23, 2025	Dec. 27, 2025	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2024	Apr. 23, 2025	Jul. 07, 2025	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 08, 2025	Apr. 23, 2025	Apr. 07, 2026	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 14, 2024	Apr. 23, 2025	Oct. 13, 2025	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Apr. 23, 2025	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Apr. 23, 2025	NCR	Radiation (03CH05-SZ)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Apr. 23, 2025	Oct. 09, 2025	Conducted (TH01-KS)
DC Power Supply	GW INSTEK	PLR36-10	GET220683	Max 20A, 36V	Jan. 02, 2025	Apr. 23, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Apr. 23, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	Apr. 17, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Apr. 17, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	Apr. 17, 2025	Dec. 24, 2025	Conduction (CO02-SZ)

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	Oct. 10, 2024	Apr. 22, 2025~ Apr. 23, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Apr. 22, 2025~ Apr. 23, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Apr. 22, 2025~ Apr. 23, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Apr. 16, 2025~ Apr. 27, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Apr. 16, 2025~ Apr. 27, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Apr. 16, 2025~ Apr. 27, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Apr. 16, 2025~ Apr. 27, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Apr. 16, 2025~ Apr. 27, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2025	Apr. 16, 2025~ Apr. 27, 2025	Apr. 07, 2026	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Apr. 16, 2025~ Apr. 27, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Apr. 16, 2025~ Apr. 27, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Apr. 16, 2025~ Apr. 27, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Apr. 16, 2025~ Apr. 27, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Apr. 16, 2025~ Apr. 27, 2025	NCR	Radiation (03CH02-SZ)

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 (BT/WIFI2.4G/5G)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04 Hz

Uncertainty of Conducted Measurement (DFS)

Conducted Generated signal Levels	±0.56 dB
Conducted Time	0.38%

Uncertainty of Conducted Measurement (NFC)

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.1%
Frequency	±0.04 Hz

Uncertainty of Conducted Measurement (WWAN)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.04 ppm

**Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)**

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5 dB
---	--------

03CH03-SZ(BT/WIF):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.00 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.90 dB
---	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.00 dB
---	---------

03CH05-SZ(NFC):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.50 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.20 dB
---	---------

03CH02-SZ(WWAN):

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
---	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.72 dB
---	---------

-THE END-



Appendix A. Radiated Spurious Emission

Test Engineer :	Shunping You	Relative Humidity :	50%
		Temperature :	20-24°C

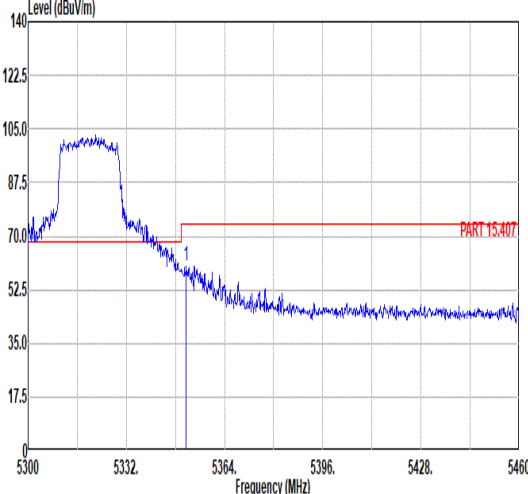
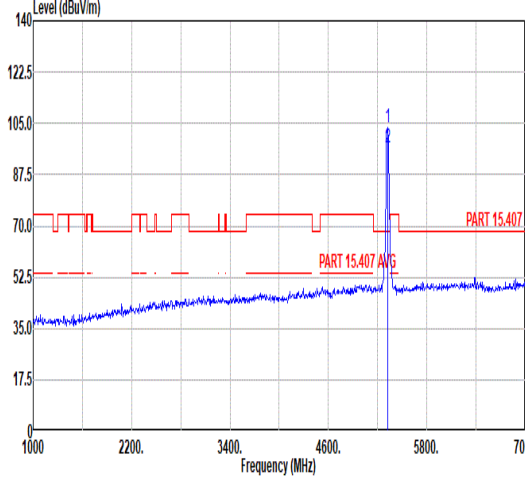
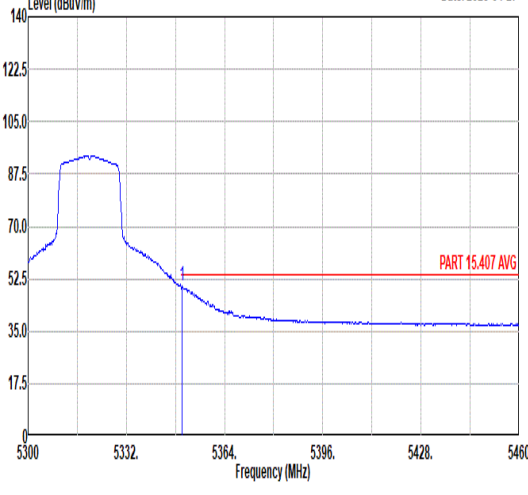
Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	CO-TX	5.25-5.35	5	802.11ax HE20	64	5320	MCS0	Full	-
		-	-	BT on	-	-	-	-	-
		-	-	NFC on	-	-	-	-	-
		-	-	LTE Band 71	LINK	-	-	-	-
Mode 2	CO-TX	5.25-5.35	5	802.11ax HE20	64	5320	MCS0	Full	-
		-	-	BT on	-	-	-	-	-
		-	-	NFC on	-	-	-	-	-
		-	-	LTE Band 41	LINK	-	-	-	-
Mode 3	CO-TX			LF					

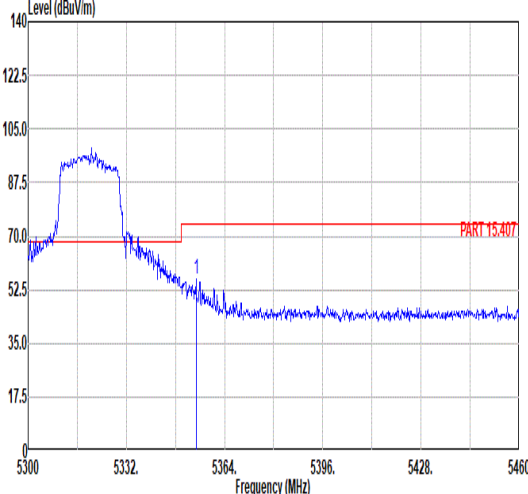
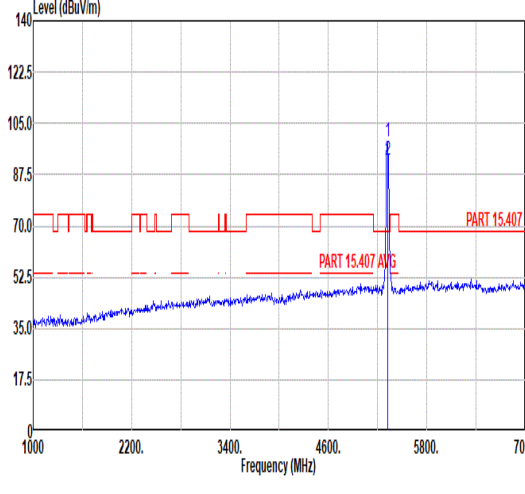
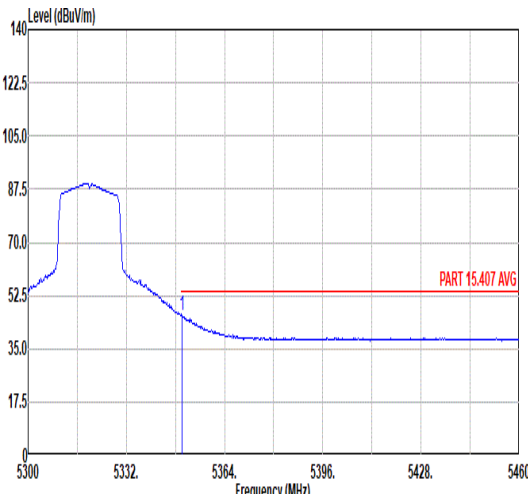
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11ax HE20	64	5350.24	49.99	54.00	-4.01	H	Average	Pass	Band Edge
	802.11ax HE20	64	15960.00	46.33	74.00	-27.67	H	Peak	Pass	Harmonic
2	802.11ax HE20	64	5350.10	49.71	54.00	-4.29	H	AVERAGE	Pass	Band Edge
	802.11ax HE20	64	10640.00	47.57	74.00	-26.43	H	Peak	Pass	Harmonic
3	802.11ax HE20_LF	64	34.85	26.73	40.00	-13.27	V	Peak	Pass	LF

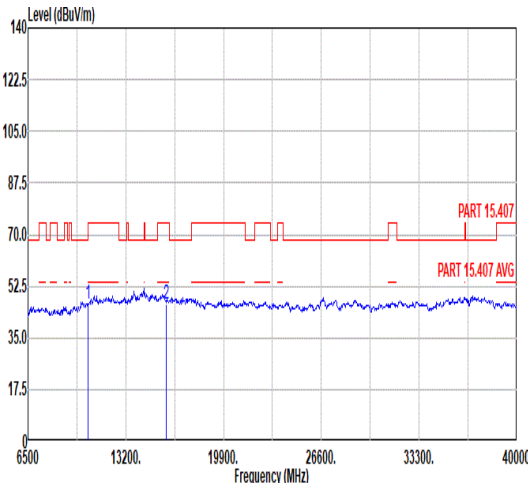
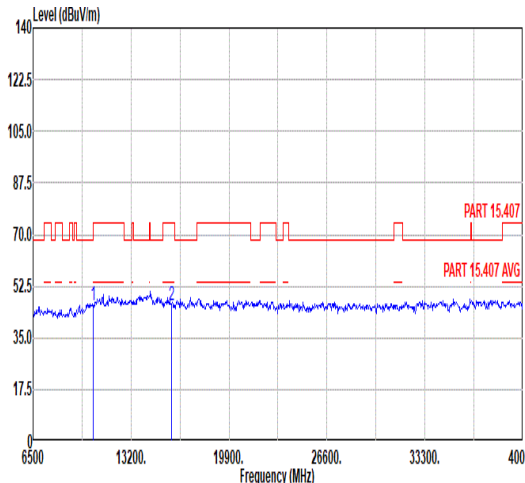


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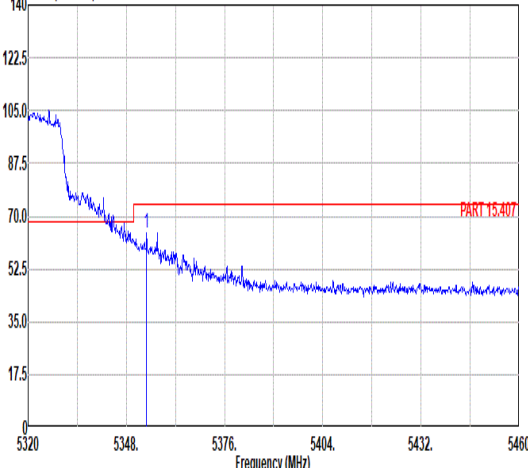
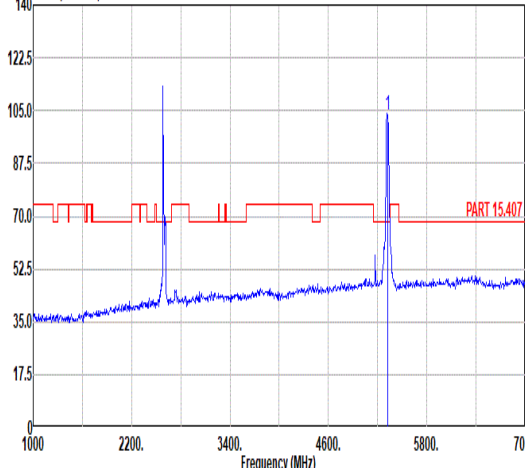
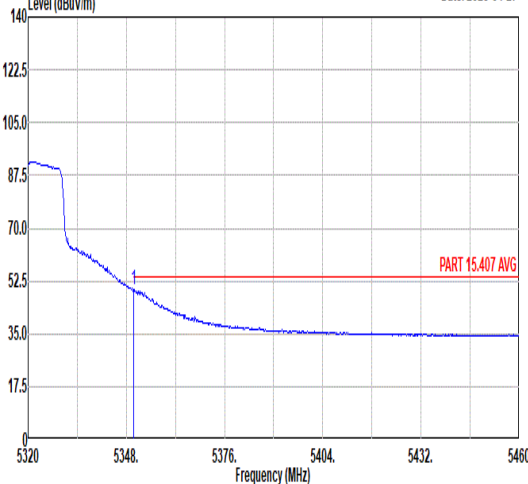
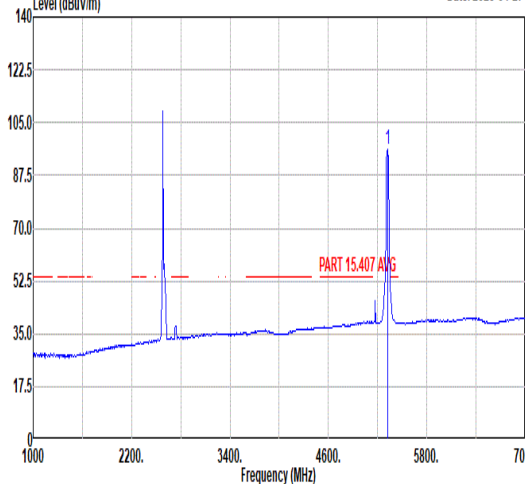


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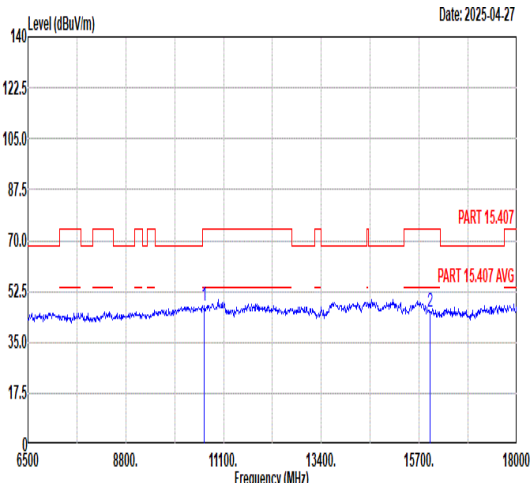
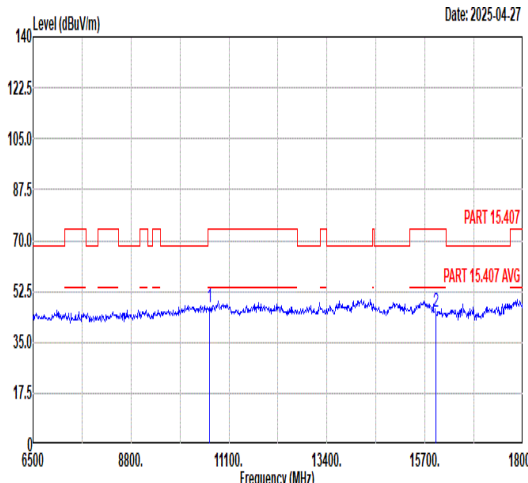
Mode	2	
	Band Edge	
	LTE Band 41 + 802.11ax HE20 + BT on + NFC on.	
ANT	5	
Pol.	Horizontal	Fundamental
Peak	<div><div>Level (dBuV/m)</div><div>Date: 2025-04-27</div><div>5320 5348. 5376. 5404. 5432. 5460</div><div>140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0</div><div>1 5353.74 64.56 74.00 -9.44 54.77 34.11 8.34 32.66 106 58 PEAK</div></div>	<div><div>Level (dBuV/m)</div><div>Date: 2025-04-27</div><div>1000 2200. 3400. 4600. 5800. 7000</div><div>140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0</div><div>1 5320.00 103.80 ----- 101.53 30.64 5.06 33.43 106 58 PEAK</div></div>
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Remark: All signals exceeding the limit are fundamental frequency signals and can be ignored.

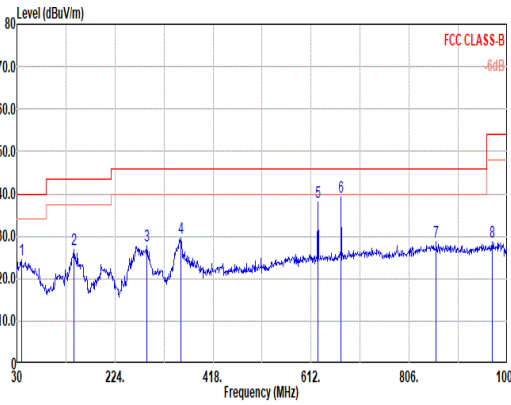
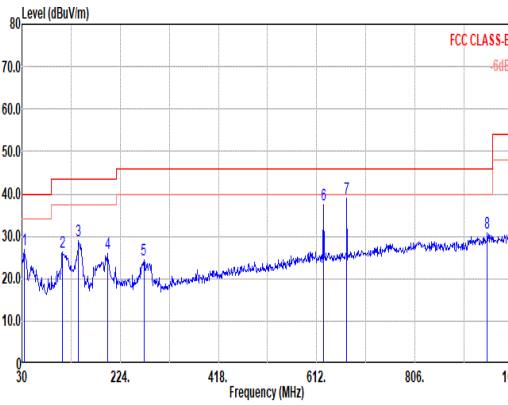


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Remark: 625.5MHz & 671.5MHz are WWAN fundamental frequency signals and can be ignored



Appendix C. Reference Report

FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2527-1
FCC ID : IHDT56AV5
STANDARD : 47 CFR Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Mar. 24, 2025 ~ Apr. 09, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen).

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
FG530724E	Rev. 01	Initial issue of report	Apr. 21, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 38.15 dB at 13964.00 MHz

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	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2527-1
FCC ID	IHDT56AV5
IMEI Code	Conducted: 358887330041698/358887330041706 Radiation: 358887330039734/358887330039742
HW Version	DVT2
SW Version	V2VN35.50
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	LTE Band 42: 3450 MHz ~ 3550 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	23.04 dBm
Antenna Gain	<ANT5> : -0.8 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

LTE Band 42		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3452.5 ~ 3547.5	0.1667	4M47G7D	0.1294	4M48W7D
10	3455 ~ 3545	0.1660	9M13G7D	0.1294	9M01W7D
15	3457.5 ~ 3542.5	0.1637	14M4G7D	0.1291	13M5W7D
20	3460 ~ 3540	0.1675	17M9G7D	0.1327	17M9W7D

1.7 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.
	TH01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test case in section 4.4 of this report.

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applied Standards

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

- ♦ 47 CFR Part 27 Subpart Q
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-331L
AC Adapter 1(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-332L
AC Adapter 1(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-333L
AC Adapter 1(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-335L
AC Adapter 1(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-336L
AC Adapter 1(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-337L
AC Adapter 2(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-331L
AC Adapter 2(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-332L
AC Adapter 2(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-333L
AC Adapter 2(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-336L
AC Adapter 2(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-337L
Battery 1	Brand Name	Motorola(NVT)	Model Name	RA52
Battery 2	Brand Name	Motorola(SUNWODA)	Model Name	RA52
USB Cable 1	Brand Name	Motorola(Washin)	Model Name	HX-ZN-34



SPORTON LAB.

FCC RF Test Report

Report No. : FG530724E

USB Cable 2	Brand Name	Motorola(Juwei)	Model Name	JWUB1928-ZN01H
Wireless Earphones	Brand Name	Motorola	Model Name	XT2443-1

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

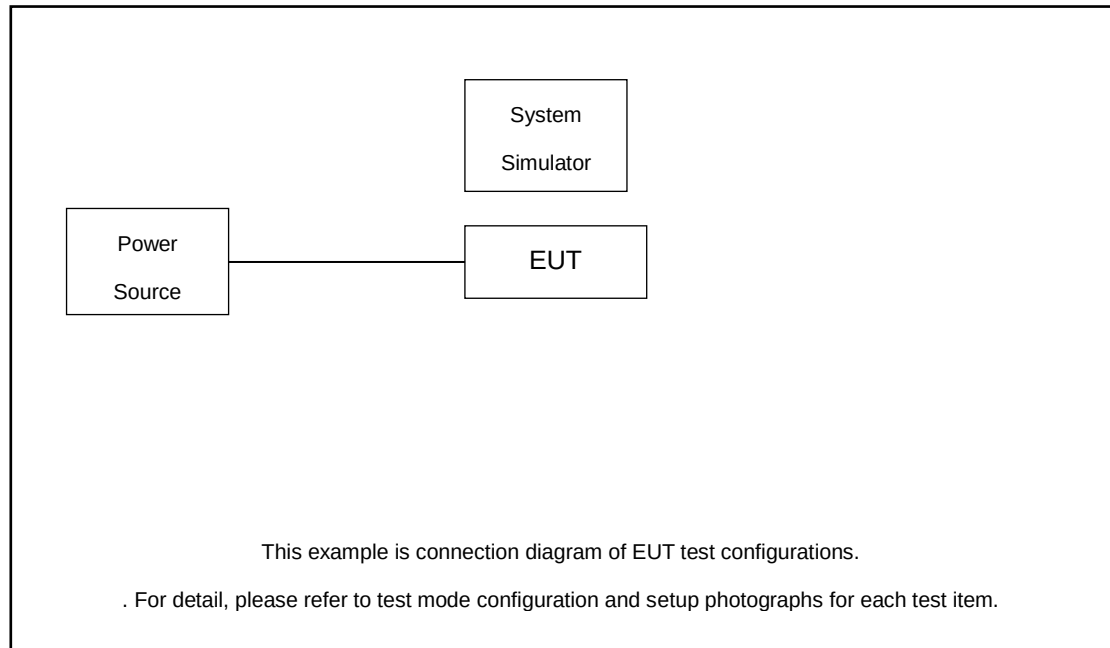
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y Plane)

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	LTE Band 42	20M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
E.I.R.P	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	LTE Band 42	20M	QPSK, 16QAM	Full RB	M
Conducted Band Edge	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, H
Conducted Spurious Emission	LTE Band 42	5M, 10M, 15M, 20M	QPSK	1RB	L, M, H
Frequency Stability	LTE Band 42	10M	QPSK	1RB	M
Radiated Spurious Emission	LTE Band 42	Worst case from maximum power			M

Note:

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.72 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8.72 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

LTE Band 42 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	42190	42590	42990
	Frequency	3460	3500	3540
15	Channel	42165	42590	43015
	Frequency	3457.5	3500	3542.5
10	Channel	42140	42590	43040
	Frequency	3455	3500	3545
5	Channel	42115	42590	43065
	Frequency	3452.5	3500	3547.5

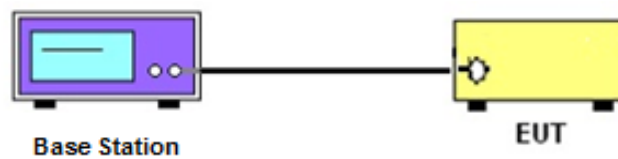
3 Conducted Test Items

3.1 Measuring Instruments

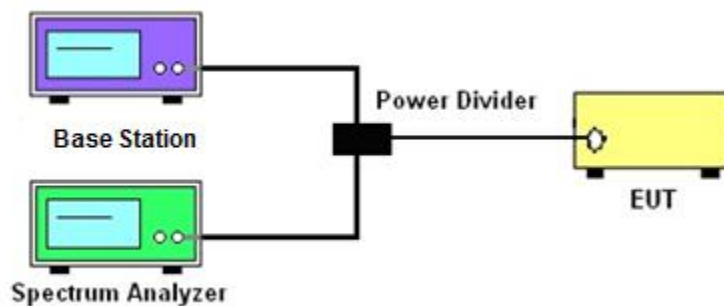
See list of measuring instruments of this test report.

3.2 Test Setup

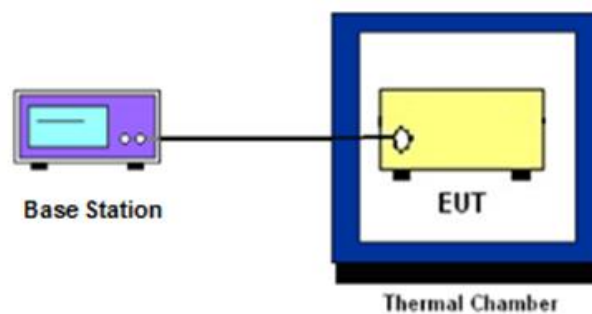
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where
 P_T = transmitter output power in dBm
 G_T = gain of the transmitting antenna in dBi
 L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500 KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

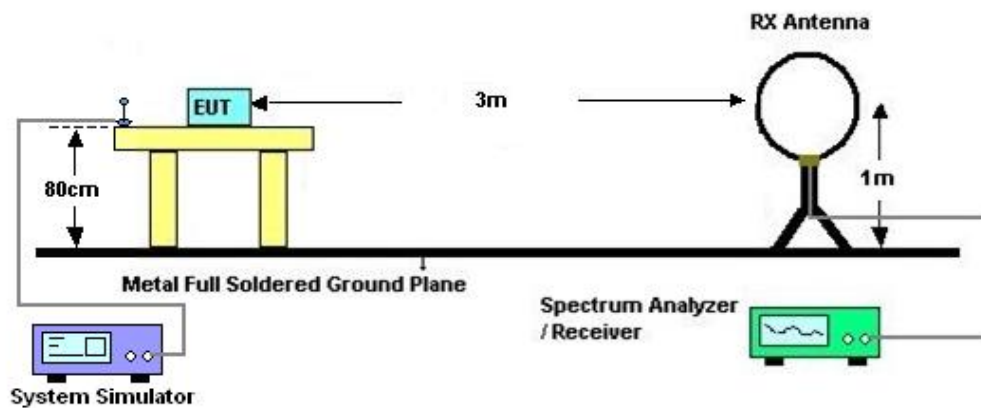
4 Radiated Test Items

4.1 Measuring Instruments

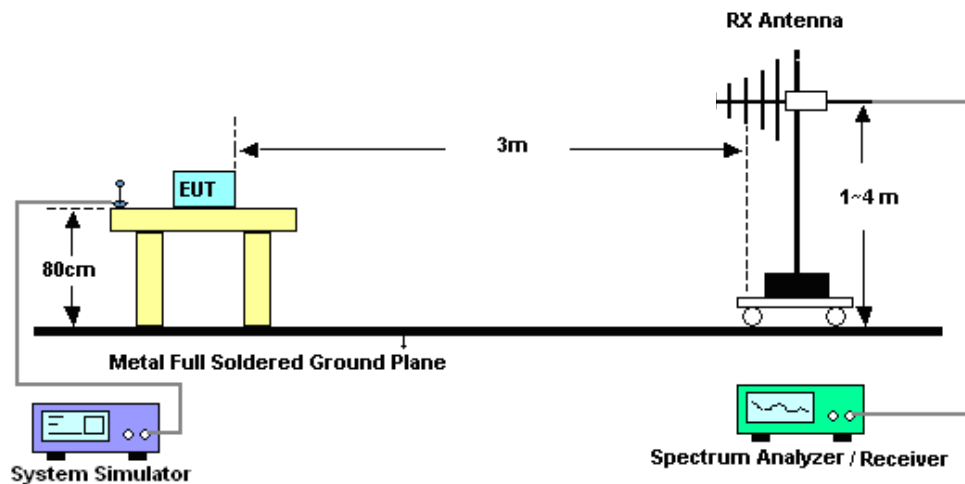
See list of measuring instruments of this test report.

4.2 Test Setup

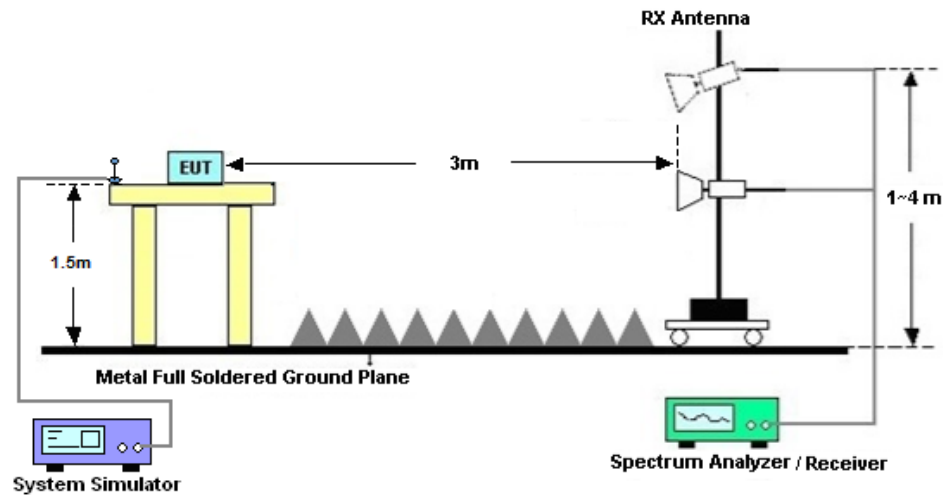
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Mar. 24, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Mar. 24, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Mar. 24, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Mar. 29, 2025~ Apr. 09, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Mar. 29, 2025~ Apr. 09, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Mar. 29, 2025~ Apr. 09, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Mar. 29, 2025~ Apr. 09, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Mar. 29, 2025~ Apr. 09, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Mar. 29, 2025~ Apr. 09, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 08, 2025		Apr. 07, 2026	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Mar. 29, 2025~ Apr. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Mar. 29, 2025~ Apr. 09, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Mar. 29, 2025~ Apr. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Mar. 29, 2025~ Apr. 09, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Mar. 29, 2025~ Apr. 09, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 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

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.04 ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB
---	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72 dB
---	---------

----- THE END -----

Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

LTE Band 42:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540	L	M	H
20	QPSK	1	0	22.93	23.04	22.81	0.1633	0.1675	0.1589
20	QPSK	1	49	22.94	22.90	22.79	0.1637	0.1622	0.1581
20	QPSK	1	99	22.91	22.92	22.71	0.1626	0.1629	0.1552
20	QPSK	50	0	21.84	21.96	21.75	0.1271	0.1306	0.1245
20	QPSK	50	24	21.93	21.92	21.74	0.1297	0.1294	0.1242
20	QPSK	50	50	21.93	21.88	21.63	0.1297	0.1282	0.1211
20	QPSK	100	0	21.91	21.92	21.78	0.1291	0.1294	0.1253
20	16QAM	1	0	21.94	22.03	21.76	0.1300	0.1327	0.1247
20	16QAM	1	49	21.87	21.91	21.80	0.1279	0.1291	0.1259
20	16QAM	1	99	21.92	21.87	21.70	0.1294	0.1279	0.1230
20	16QAM	50	0	20.91	21.08	20.87	0.1026	0.1067	0.1016
20	16QAM	50	24	21.00	20.86	20.77	0.1047	0.1014	0.0993
20	16QAM	50	50	20.85	20.99	20.76	0.1012	0.1045	0.0991
20	16QAM	100	0	20.96	21.07	20.73	0.1038	0.1064	0.0984
20	64QAM	1	0	20.98	21.09	20.79	0.1042	0.1069	0.0998
20	64QAM	1	49	20.93	20.88	20.73	0.1030	0.1019	0.0984
20	64QAM	1	99	20.90	20.84	20.79	0.1023	0.1009	0.0998
20	64QAM	50	0	19.95	20.06	19.86	0.0822	0.0843	0.0805
20	64QAM	50	24	19.88	19.99	19.84	0.0809	0.0830	0.0802
20	64QAM	50	50	19.92	19.95	19.75	0.0817	0.0822	0.0785
20	64QAM	100	0	19.86	20.13	19.72	0.0805	0.0857	0.0780
20	256QAM	1	0	17.94	18.00	17.85	0.0518	0.0525	0.0507
20	256QAM	1	49	17.84	17.80	17.77	0.0506	0.0501	0.0498
20	256QAM	1	99	17.91	17.88	17.66	0.0514	0.0511	0.0485
20	256QAM	50	0	17.83	18.01	17.84	0.0505	0.0526	0.0506
20	256QAM	50	24	18.02	18.03	17.89	0.0527	0.0528	0.0512
20	256QAM	50	50	17.86	17.99	17.69	0.0508	0.0524	0.0489
20	256QAM	100	0	18.01	17.85	17.76	0.0526	0.0507	0.0497
Channel				42165	42590	43015	EIRP(W)		
Frequency (MHz)				3457.5	3500	3542.5	L	M	H
15	QPSK	1	0	22.81	22.94	22.65	0.1589	0.1637	0.1531
15	QPSK	1	37	22.78	22.89	22.61	0.1578	0.1618	0.1517

15	QPSK	1	74	22.80	22.86	22.58	0.1585	0.1607	0.1507
15	QPSK	36	0	21.76	21.79	21.56	0.1247	0.1256	0.1191
15	QPSK	36	20	21.91	21.85	21.58	0.1291	0.1274	0.1197
15	QPSK	36	39	21.91	21.85	21.59	0.1291	0.1274	0.1199
15	QPSK	75	0	21.90	21.84	21.57	0.1288	0.1271	0.1194
15	16QAM	1	0	21.91	21.91	21.73	0.1291	0.1291	0.1239
15	16QAM	1	37	21.80	21.79	21.59	0.1259	0.1256	0.1199
15	16QAM	1	74	21.72	21.68	21.66	0.1236	0.1225	0.1219
15	16QAM	36	0	20.70	20.89	20.71	0.0977	0.1021	0.0979
15	16QAM	36	20	20.99	20.72	20.76	0.1045	0.0982	0.0991
15	16QAM	36	39	20.73	21.01	20.69	0.0984	0.1050	0.0975
15	16QAM	75	0	20.86	20.98	20.67	0.1014	0.1042	0.0971
15	64QAM	1	0	20.97	20.95	20.74	0.1040	0.1035	0.0986
15	64QAM	1	37	20.77	20.70	20.52	0.0993	0.0977	0.0938
15	64QAM	1	74	20.80	20.86	20.71	0.1000	0.1014	0.0979
15	64QAM	36	0	19.94	20.02	19.72	0.0820	0.0836	0.0780
15	64QAM	36	20	19.87	19.90	19.78	0.0807	0.0813	0.0791
15	64QAM	36	39	19.74	19.86	19.61	0.0783	0.0805	0.0760
15	64QAM	75	0	19.88	20.07	19.60	0.0809	0.0845	0.0759
15	256QAM	1	0	17.94	17.93	17.69	0.0518	0.0516	0.0489
15	256QAM	1	37	17.77	17.61	17.61	0.0498	0.0480	0.0480
15	256QAM	1	74	17.91	17.68	17.60	0.0514	0.0488	0.0479
15	256QAM	36	0	17.77	17.94	17.74	0.0498	0.0518	0.0494
15	256QAM	36	20	18.03	17.94	17.81	0.0528	0.0518	0.0502
15	256QAM	36	39	17.74	17.95	17.64	0.0494	0.0519	0.0483
15	256QAM	75	0	17.82	17.83	17.78	0.0504	0.0505	0.0499
Channel				42140	42590	43040	EIRP(W)		
Frequency (MHz)				3455	3500	3545	L	M	H
10	QPSK	1	0	22.87	23.00	22.79	0.1611	0.1660	0.1581
10	QPSK	1	25	22.89	22.73	22.77	0.1618	0.1560	0.1574
10	QPSK	1	49	22.77	22.71	22.72	0.1574	0.1552	0.1556
10	QPSK	25	0	21.76	21.83	21.59	0.1247	0.1268	0.1199
10	QPSK	25	12	21.73	21.77	21.53	0.1239	0.1250	0.1183
10	QPSK	25	25	21.73	21.78	21.56	0.1239	0.1253	0.1191
10	QPSK	50	0	21.75	21.83	21.77	0.1245	0.1268	0.1250
10	16QAM	1	0	21.74	21.92	21.74	0.1242	0.1294	0.1242
10	16QAM	1	25	21.85	21.87	21.62	0.1274	0.1279	0.1208
10	16QAM	1	49	21.72	21.80	21.56	0.1236	0.1259	0.1191
10	16QAM	25	0	20.76	20.90	20.84	0.0991	0.1023	0.1009
10	16QAM	25	12	20.90	20.78	20.75	0.1023	0.0995	0.0989
10	16QAM	25	25	20.84	20.89	20.77	0.1009	0.1021	0.0993
10	16QAM	50	0	20.74	20.91	20.70	0.0986	0.1026	0.0977
10	64QAM	1	0	20.80	21.06	20.70	0.1000	0.1062	0.0977
10	64QAM	1	25	20.85	20.68	20.68	0.1012	0.0973	0.0973
10	64QAM	1	49	20.69	20.71	20.70	0.0975	0.0979	0.0977
10	64QAM	25	0	19.93	19.88	19.76	0.0818	0.0809	0.0787
10	64QAM	25	12	19.79	19.81	19.72	0.0793	0.0796	0.0780
10	64QAM	25	25	19.84	19.86	19.55	0.0802	0.0805	0.0750

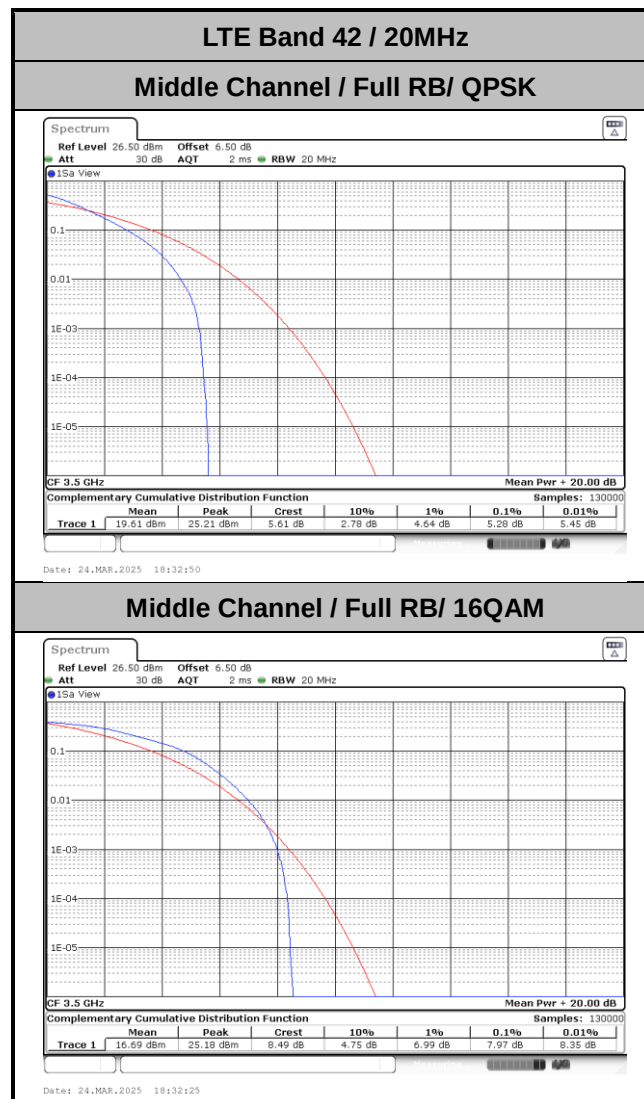


10	64QAM	50	0	19.71	20.07	19.62	0.0778	0.0845	0.0762
10	256QAM	1	0	17.74	17.85	17.80	0.0494	0.0507	0.0501
10	256QAM	1	25	17.79	17.67	17.55	0.0500	0.0486	0.0473
10	256QAM	1	49	17.86	17.76	17.68	0.0508	0.0497	0.0488
10	256QAM	25	0	17.75	17.97	17.65	0.0495	0.0521	0.0484
10	256QAM	25	12	17.94	18.05	17.69	0.0518	0.0531	0.0489
10	256QAM	25	25	17.64	17.92	17.63	0.0483	0.0515	0.0482
10	256QAM	50	0	17.88	17.72	17.66	0.0511	0.0492	0.0485
Channel				42115	42590	43065	EIRP(W)		
Frequency (MHz)				3452.5	3500	3547.5	L	M	H
5	QPSK	1	0	22.89	23.02	22.69	0.1618	0.1667	0.1545
5	QPSK	1	12	22.95	22.91	22.72	0.1641	0.1626	0.1556
5	QPSK	1	24	22.85	22.86	22.58	0.1603	0.1607	0.1507
5	QPSK	12	0	21.83	21.91	21.74	0.1268	0.1291	0.1242
5	QPSK	12	7	21.74	21.71	21.55	0.1242	0.1233	0.1189
5	QPSK	12	13	21.76	21.89	21.56	0.1247	0.1285	0.1191
5	QPSK	25	0	21.87	21.73	21.62	0.1279	0.1239	0.1208
5	16QAM	1	0	21.86	21.92	21.68	0.1276	0.1294	0.1225
5	16QAM	1	12	21.89	21.75	21.78	0.1285	0.1245	0.1253
5	16QAM	1	24	21.84	21.80	21.70	0.1271	0.1259	0.1230
5	16QAM	12	0	20.69	20.98	20.68	0.0975	0.1042	0.0973
5	16QAM	12	7	20.97	20.75	20.55	0.1040	0.0989	0.0944
5	16QAM	12	13	20.72	20.90	20.77	0.0982	0.1023	0.0993
5	16QAM	25	0	20.77	21.00	20.72	0.0993	0.1047	0.0982
5	64QAM	1	0	20.83	20.88	20.75	0.1007	0.1019	0.0989
5	64QAM	1	12	20.85	20.79	20.69	0.1012	0.0998	0.0975
5	64QAM	1	24	20.89	20.84	20.73	0.1021	0.1009	0.0984
5	64QAM	12	0	19.76	19.90	19.87	0.0787	0.0813	0.0807
5	64QAM	12	7	19.77	19.93	19.63	0.0789	0.0818	0.0764
5	64QAM	12	13	19.85	19.89	19.60	0.0804	0.0811	0.0759
5	64QAM	25	0	19.72	19.94	19.57	0.0780	0.0820	0.0753
5	256QAM	1	0	17.88	17.87	17.82	0.0511	0.0509	0.0504
5	256QAM	1	12	17.86	17.67	17.62	0.0508	0.0486	0.0481
5	256QAM	1	24	17.72	17.73	17.56	0.0492	0.0493	0.0474
5	256QAM	12	0	17.81	18.01	17.81	0.0502	0.0526	0.0502
5	256QAM	12	7	17.91	17.95	17.70	0.0514	0.0519	0.0490
5	256QAM	12	13	17.77	17.86	17.55	0.0498	0.0508	0.0473
5	256QAM	25	0	17.90	17.67	17.58	0.0513	0.0486	0.0476

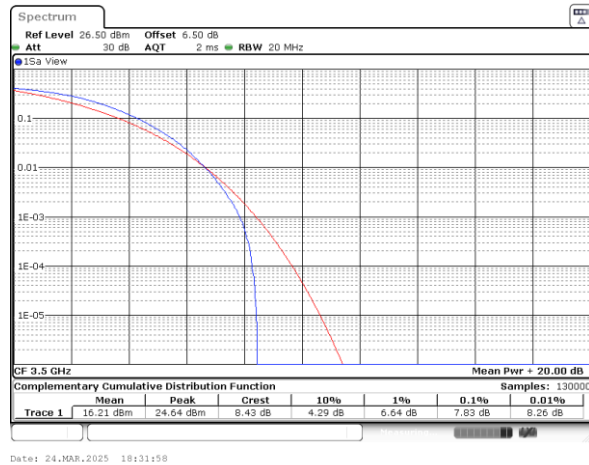
LTE Band 42

Peak-to-Average Ratio

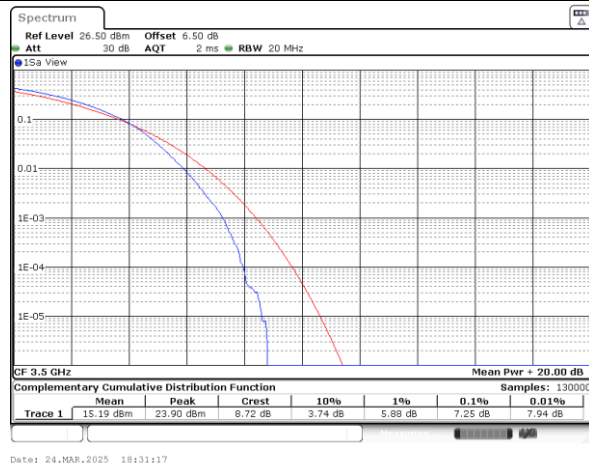
Mode	LTE Band 42 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.28	7.97	7.83	7.25	PASS



Middle Channel / Full RB/ 64QAM

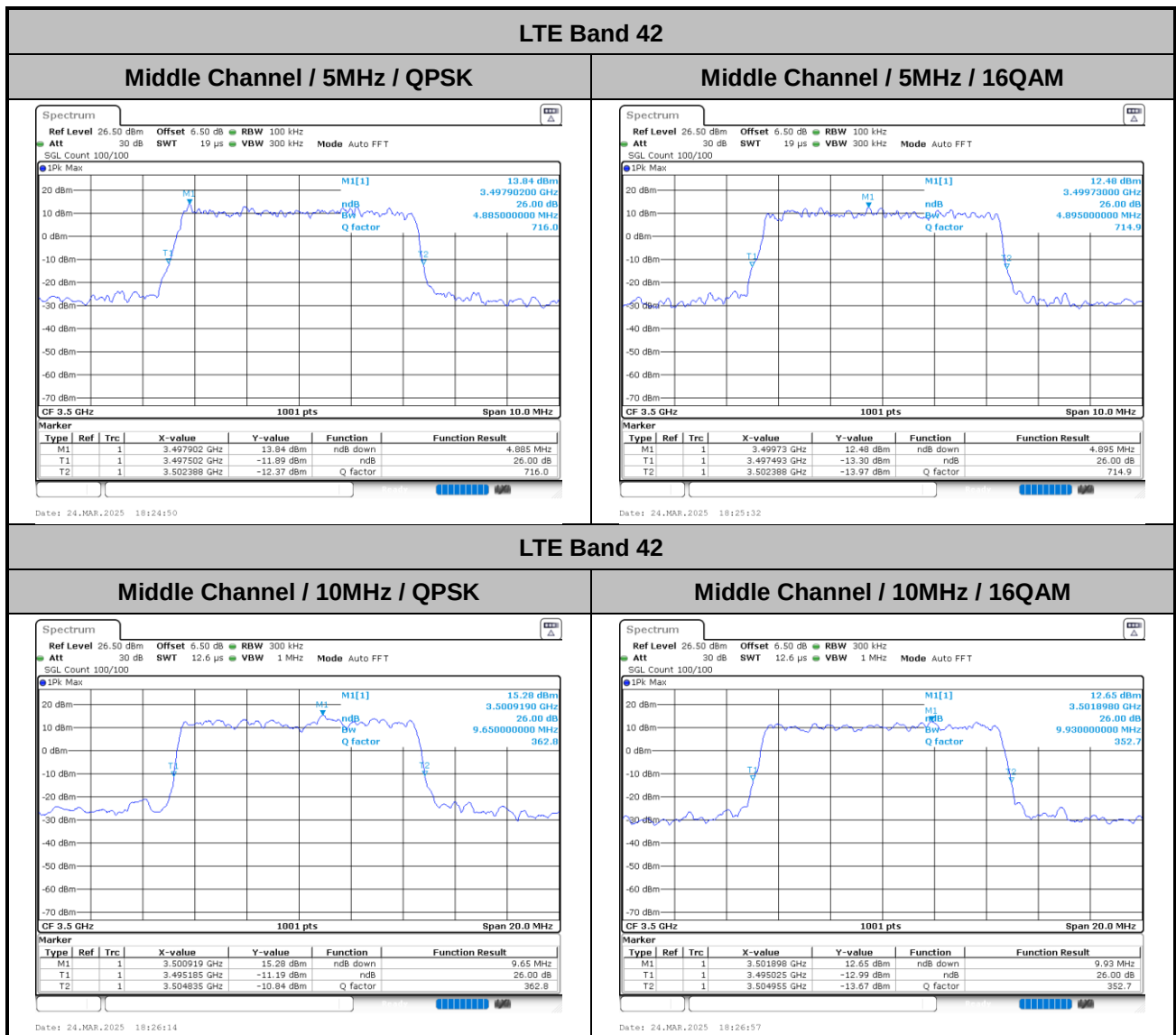


Middle Channel / Full RB/ 256QAM



26dB Bandwidth

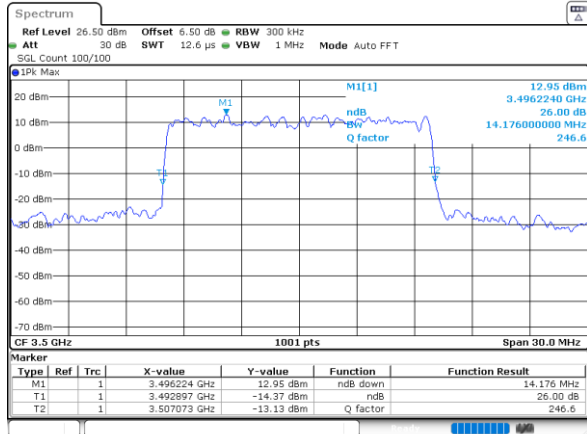
Mode	LTE Band 42 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.89	4.90	9.65	9.93	14.18	14.15	18.98	18.74



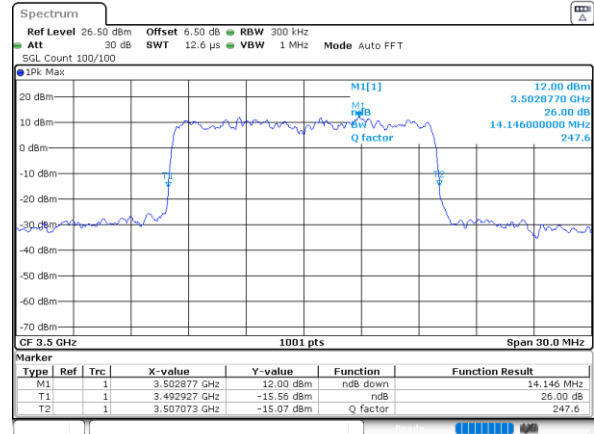


LTE Band 42

Middle Channel / 15MHz / QPSK

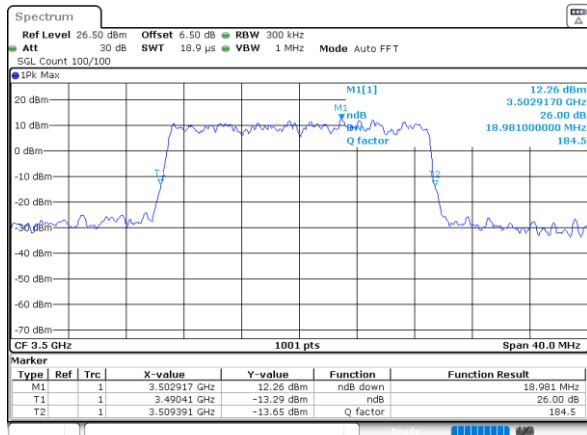


Middle Channel / 15MHz / 16QAM

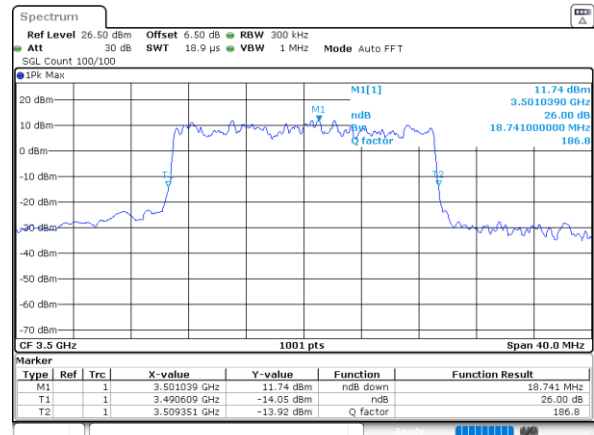


LTE Band 42

Middle Channel / 20MHz / QPSK

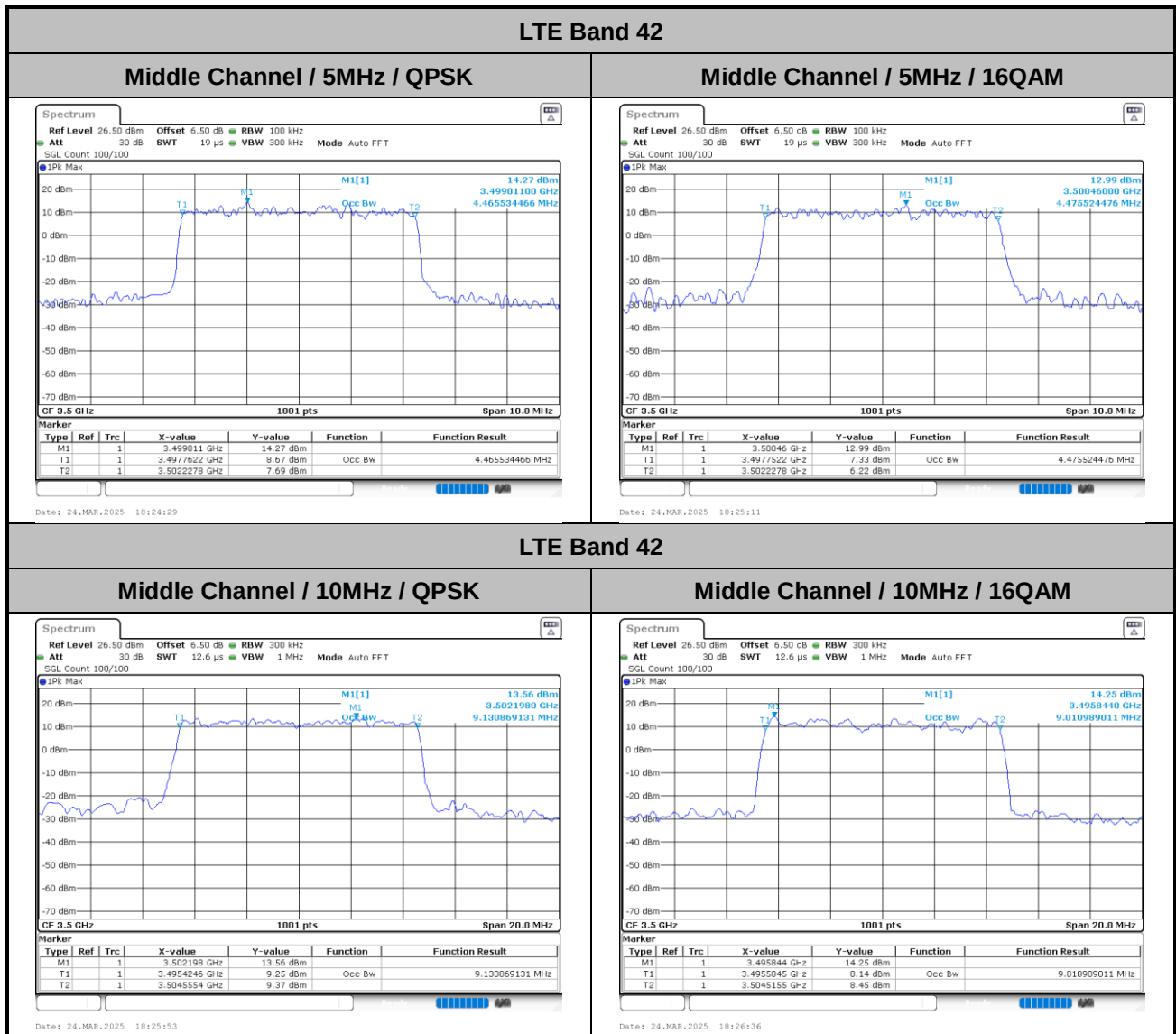


Middle Channel / 20MHz / 16QAM



Occupied Bandwidth

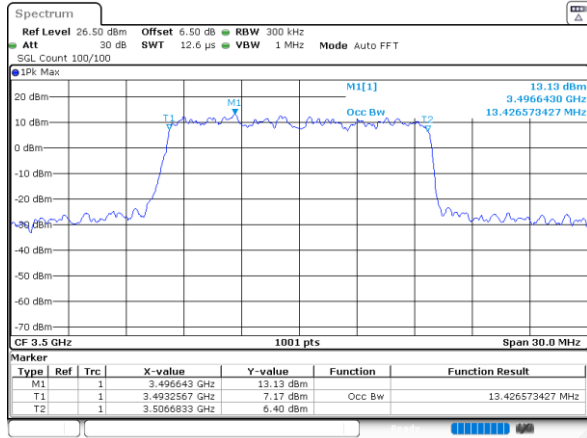
Mode	LTE Band 42 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.47	4.48	9.13	9.01	14.43	13.46	17.90	17.94



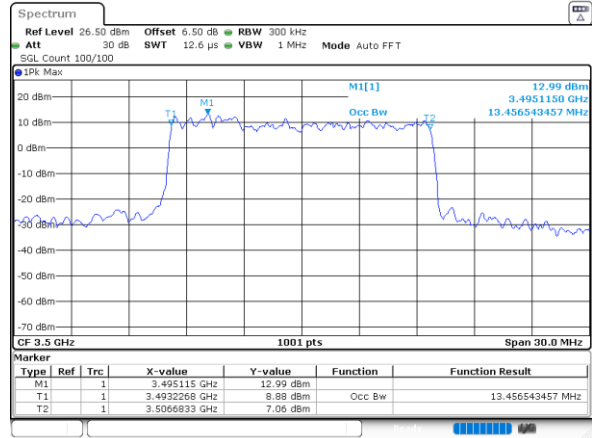


LTE Band 42

Middle Channel / 15MHz / QPSK

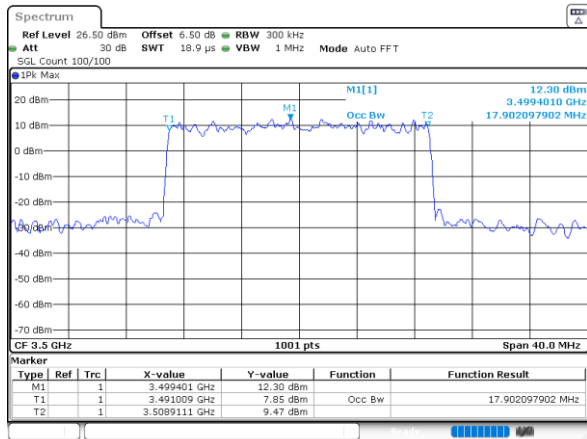


Middle Channel / 15MHz / 16QAM

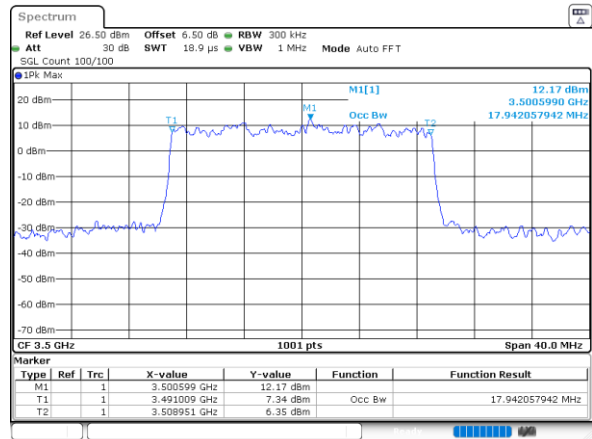


LTE Band 42

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

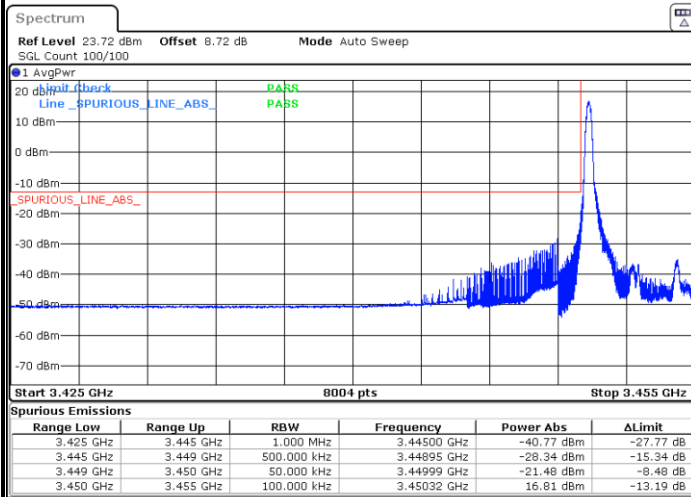




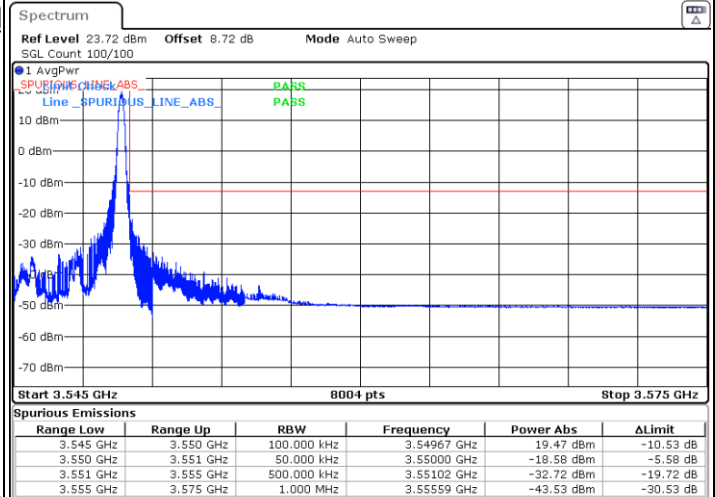
Conducted Band Edge

LTE Band 42 / 5MHz / QPSK

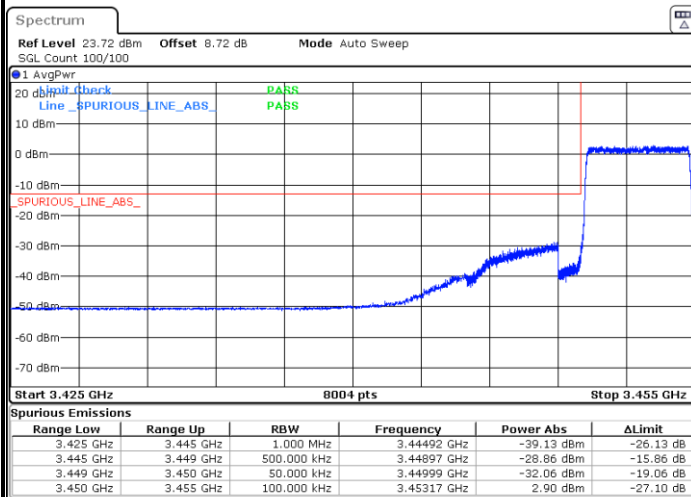
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



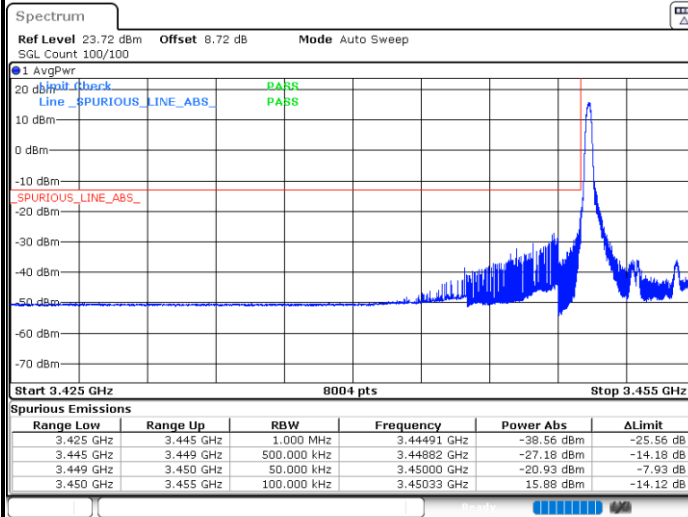
Highest Band Edge / Full RB



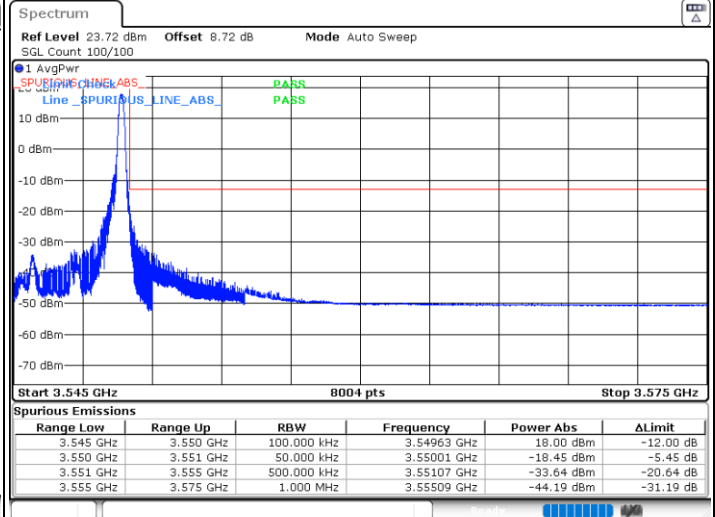


LTE Band 42 / 5MHz / 16QAM

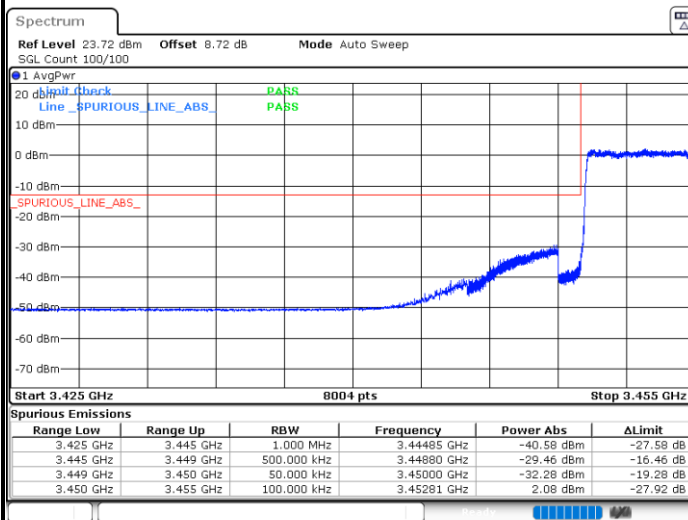
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



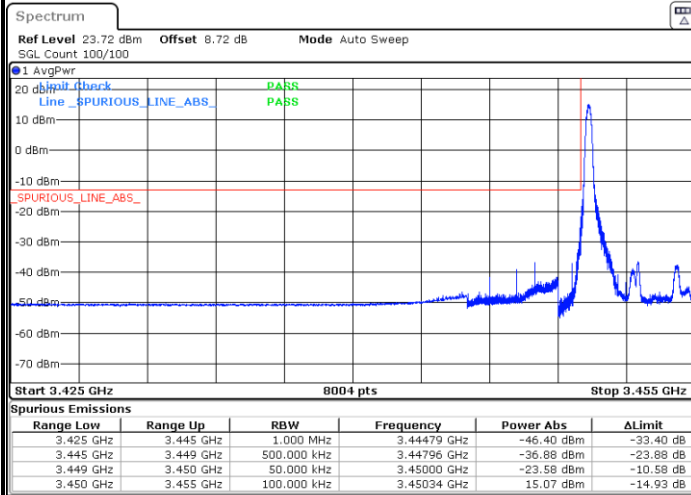
Highest Band Edge / Full RB





LTE Band 42 / 5MHz / 64QAM

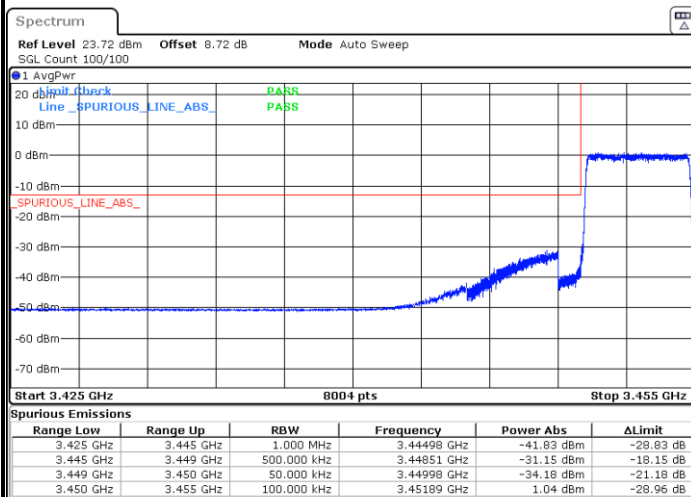
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



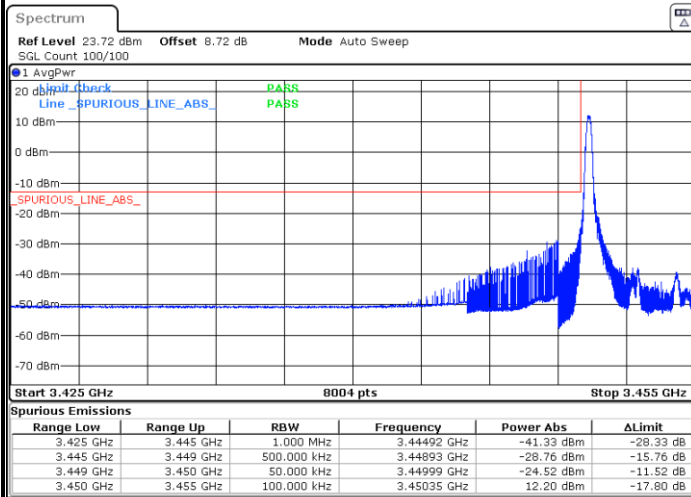
Highest Band Edge / Full RB



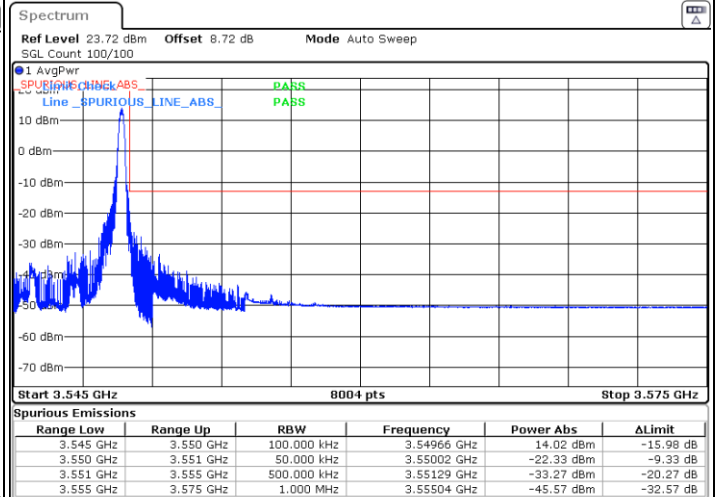


LTE Band 42 / 5MHz / 256QAM

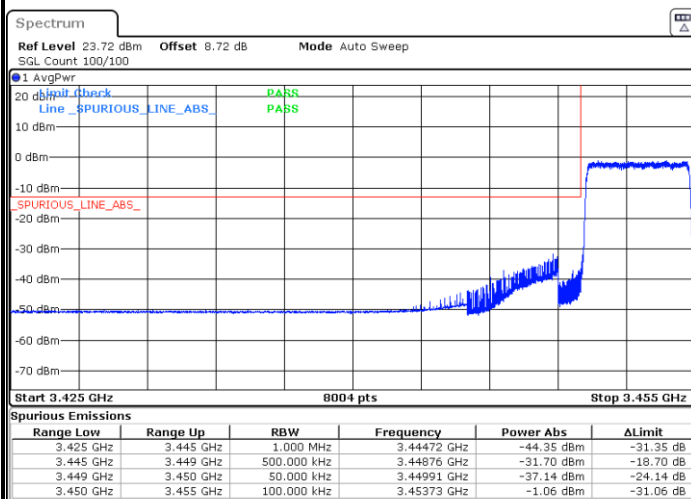
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



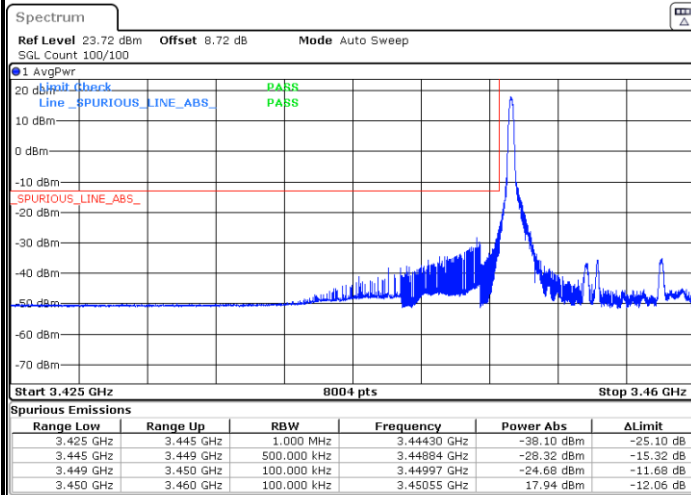
Highest Band Edge / Full RB



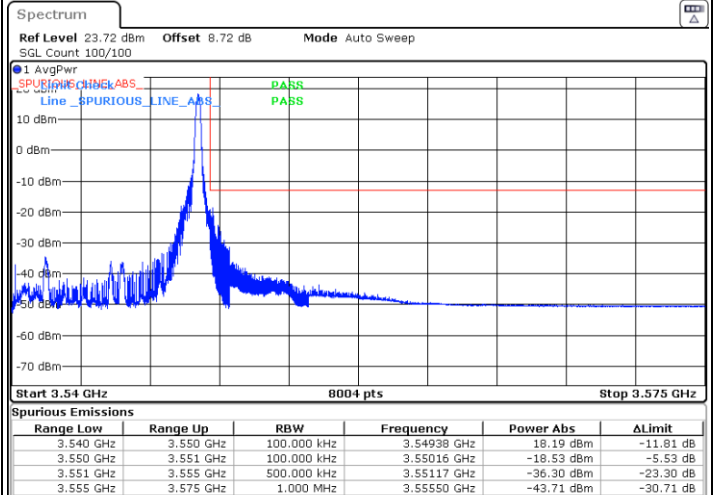


LTE Band 42 / 10MHz / QPSK

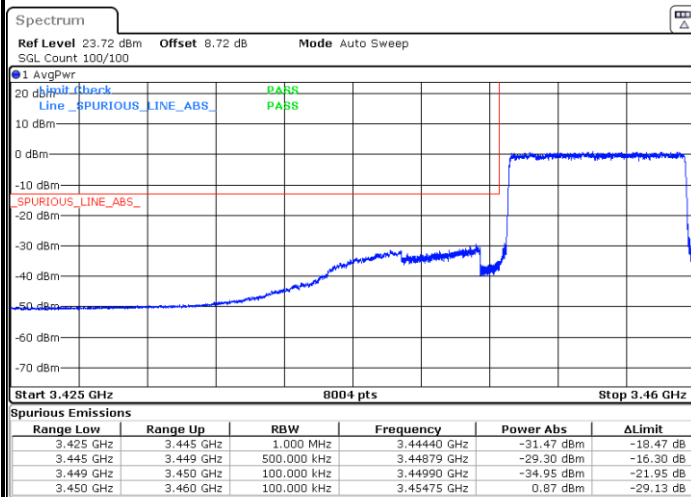
Lowest Band Edge / 1 RB



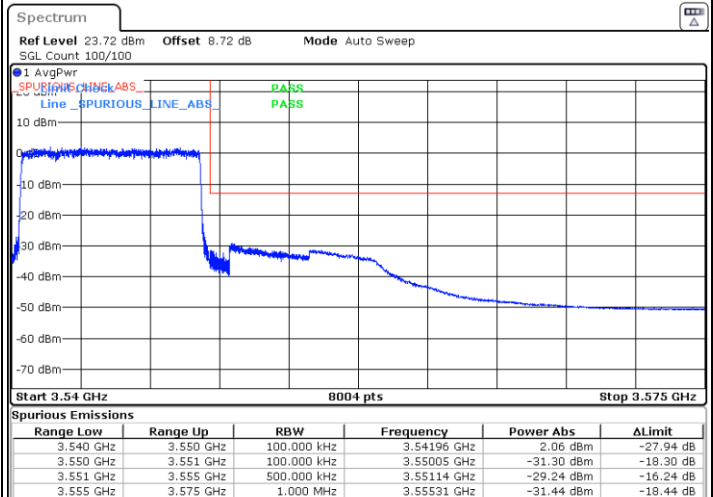
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



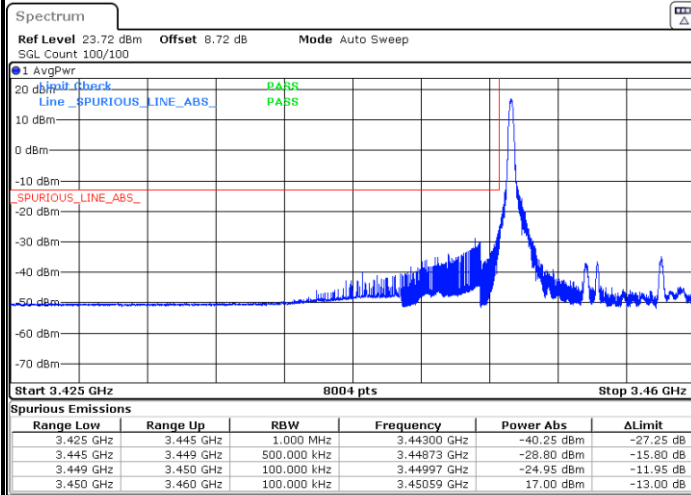
Highest Band Edge / Full RB



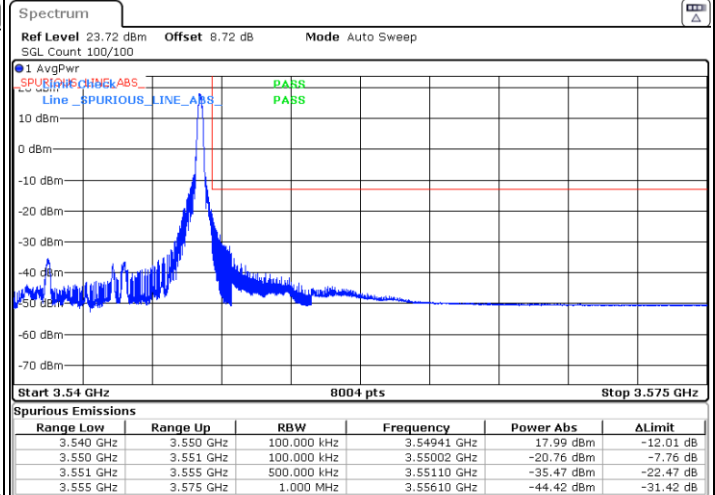


LTE Band 42 / 10MHz / 16QAM

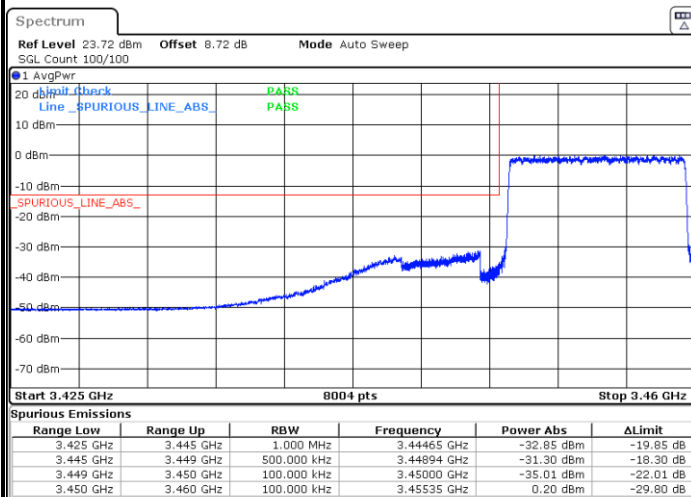
Lowest Band Edge / 1 RB



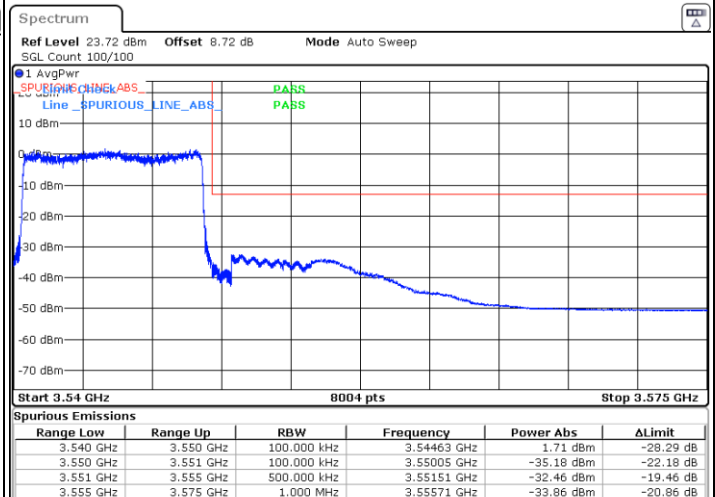
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



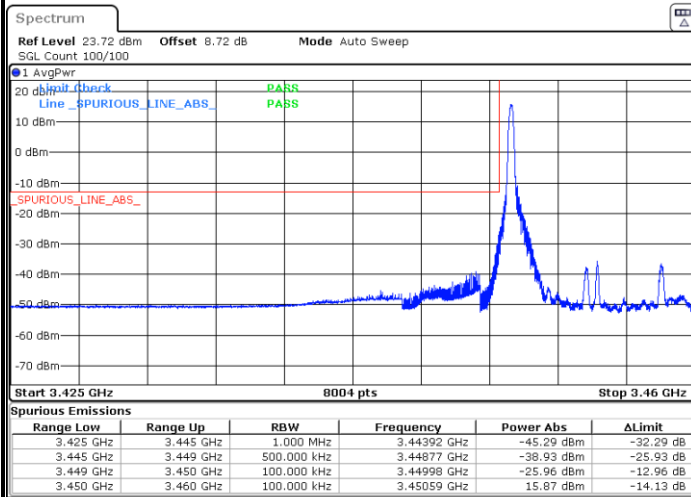
Highest Band Edge / Full RB



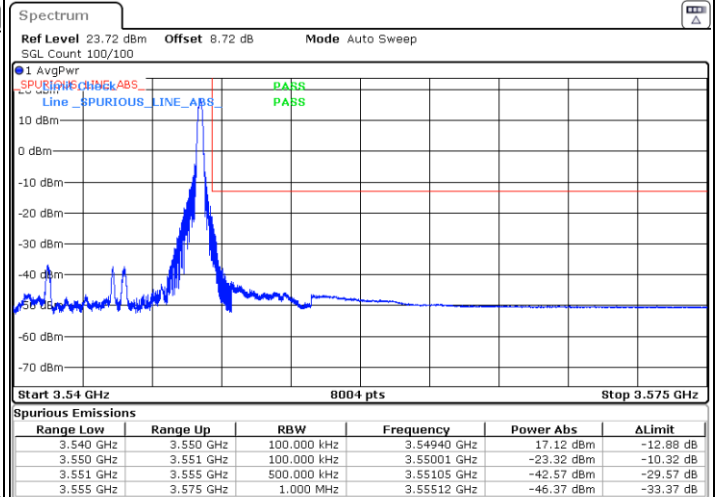


LTE Band 42 / 10MHz / 64QAM

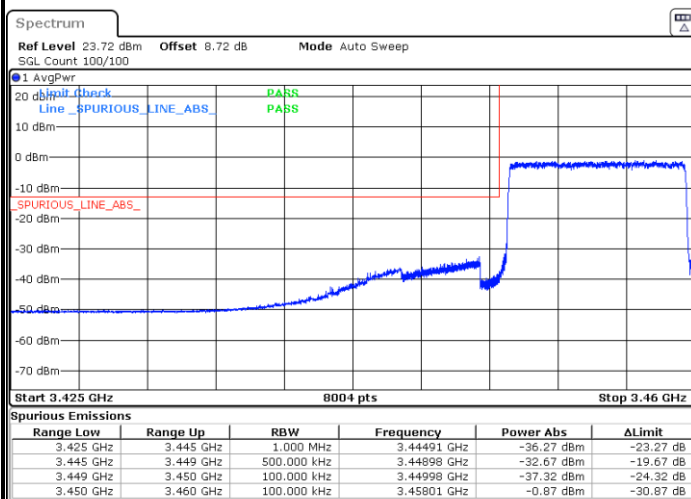
Lowest Band Edge / 1 RB



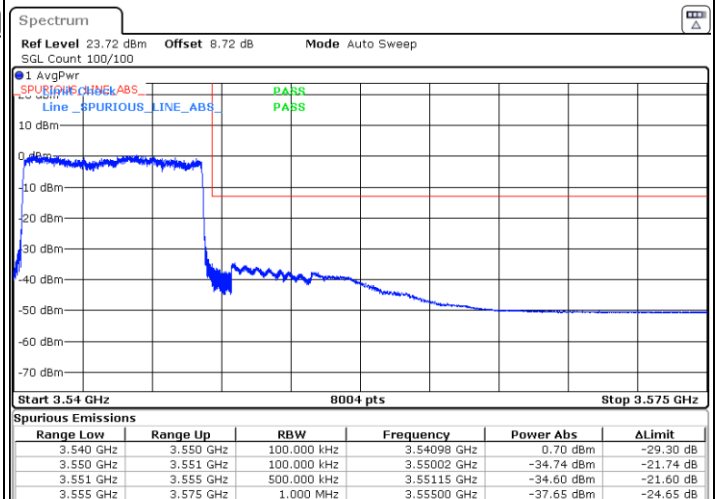
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



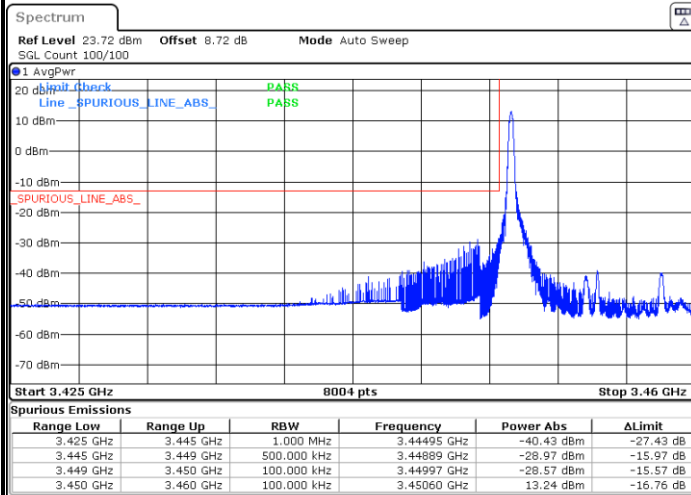
Highest Band Edge / Full RB



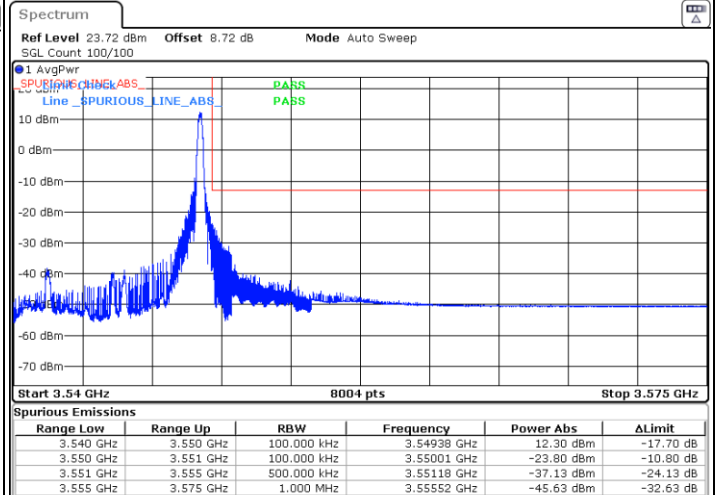


LTE Band 42 / 10MHz / 256QAM

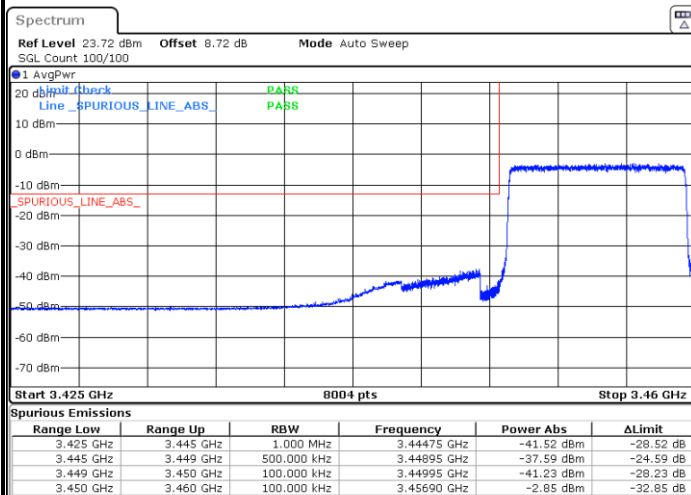
Lowest Band Edge / 1 RB



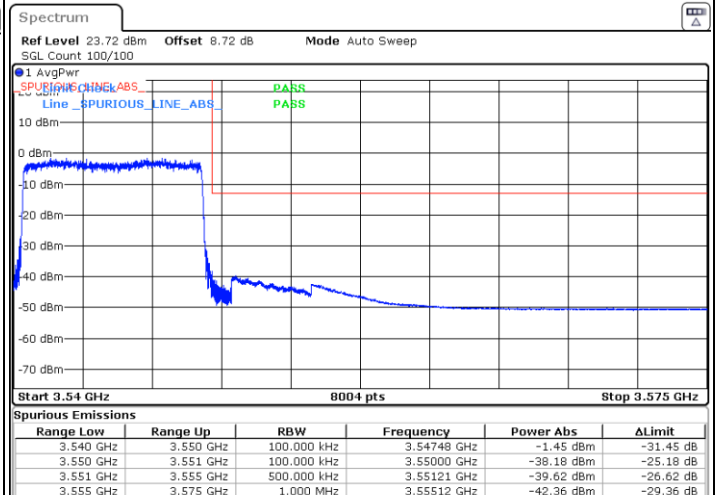
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



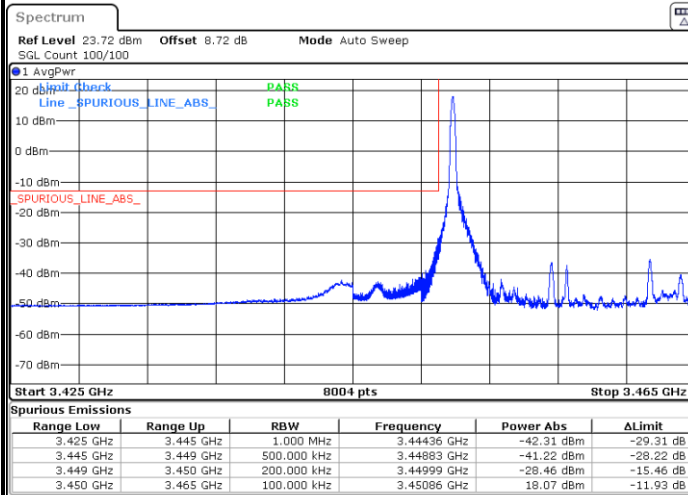
Highest Band Edge / Full RB



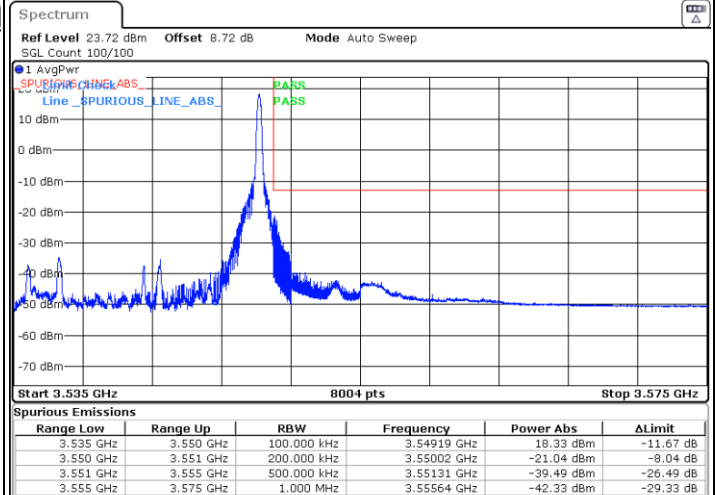


LTE Band 42 / 15MHz / QPSK

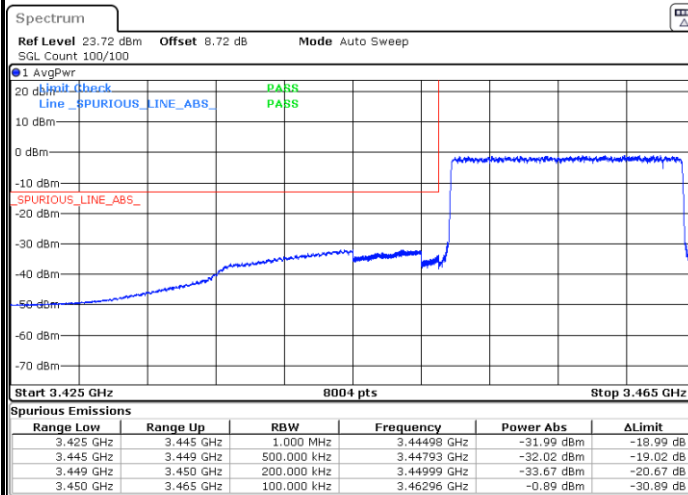
Lowest Band Edge / 1 RB



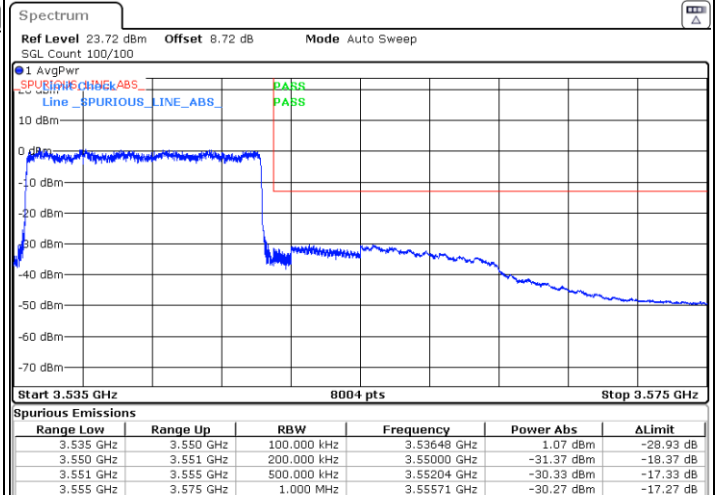
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



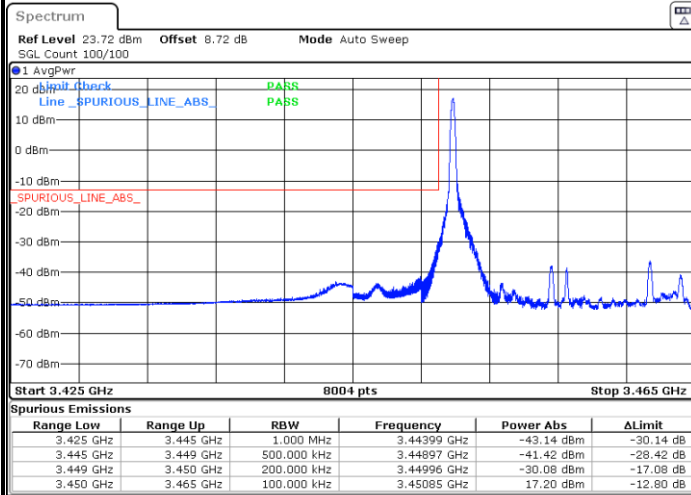
Highest Band Edge / Full RB



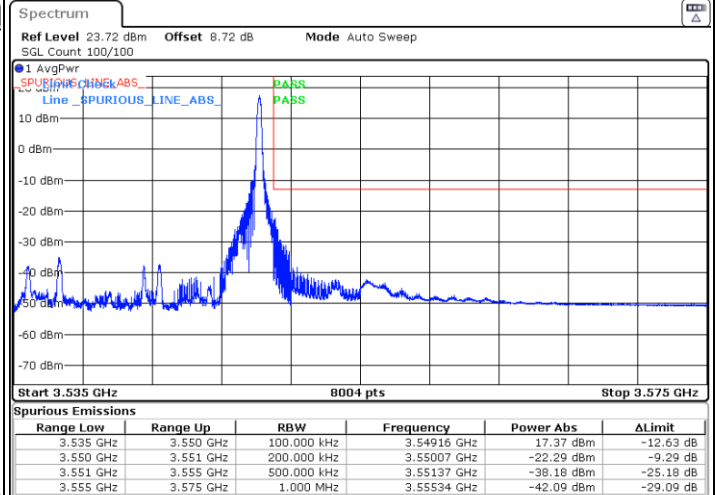


LTE Band 42 / 15MHz / 16QAM

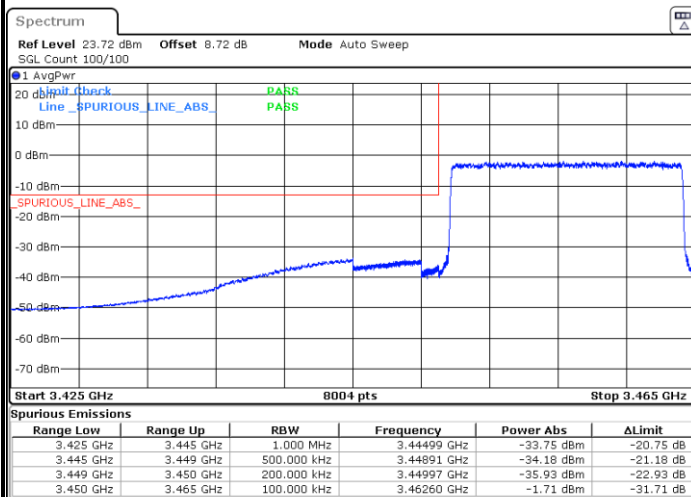
Lowest Band Edge / 1 RB



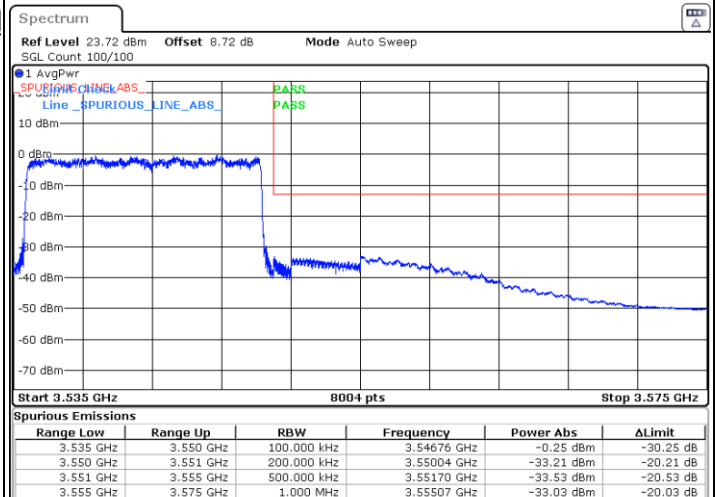
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



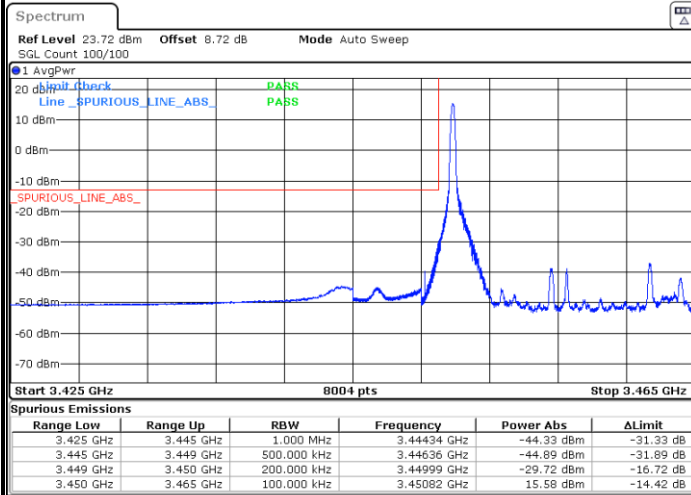
Highest Band Edge / Full RB



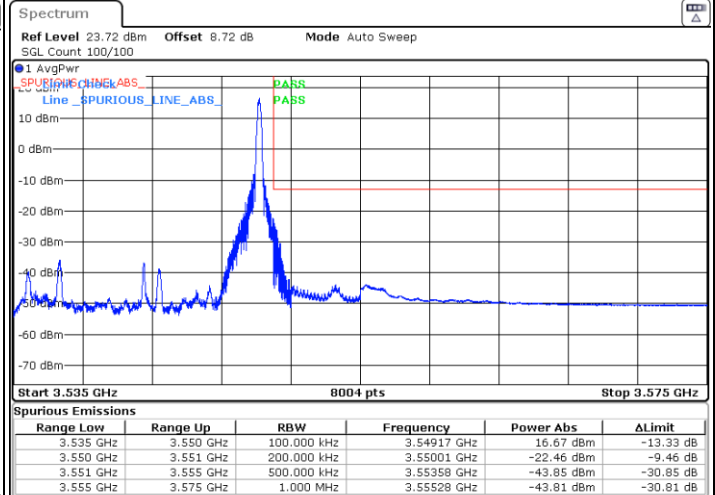


LTE Band 42 / 15MHz / 64QAM

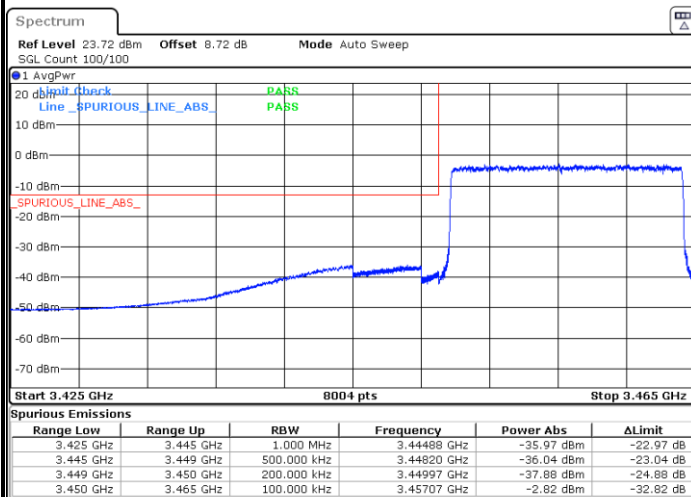
Lowest Band Edge / 1 RB



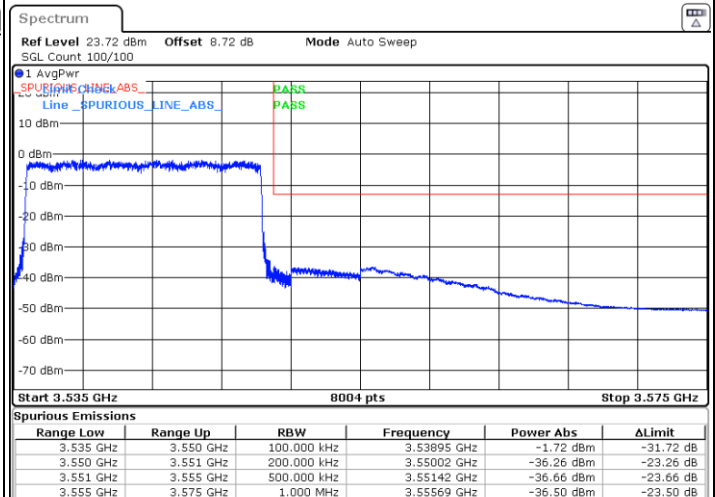
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



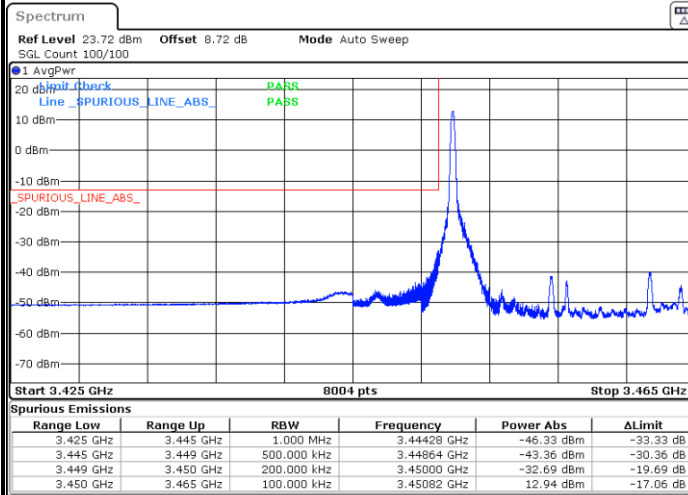
Highest Band Edge / Full RB



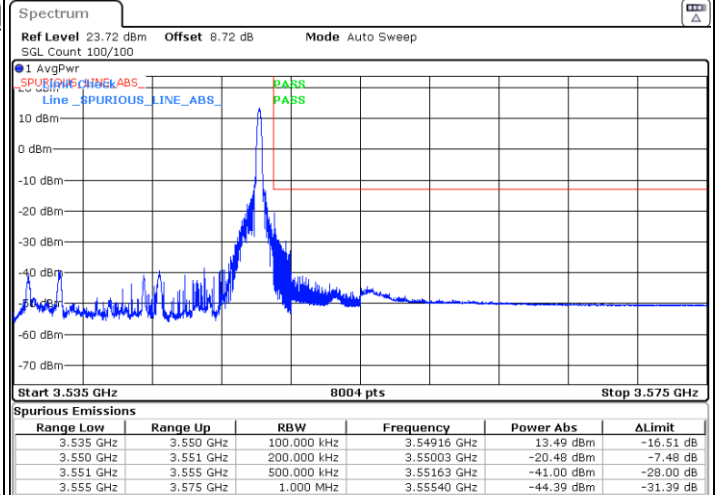


LTE Band 42 / 15MHz / 256QAM

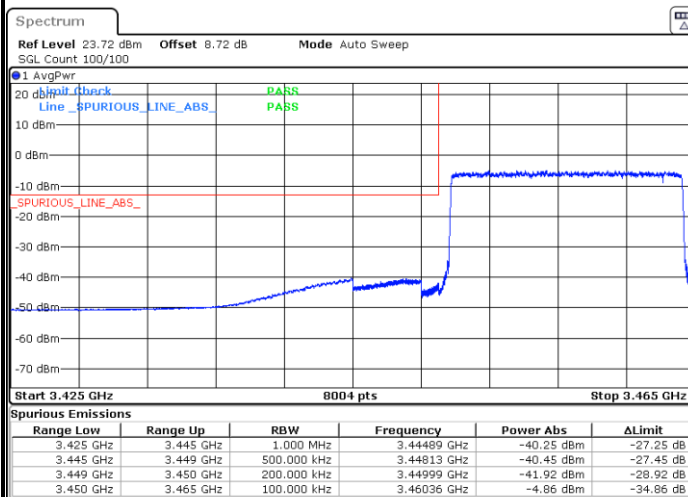
Lowest Band Edge / 1 RB



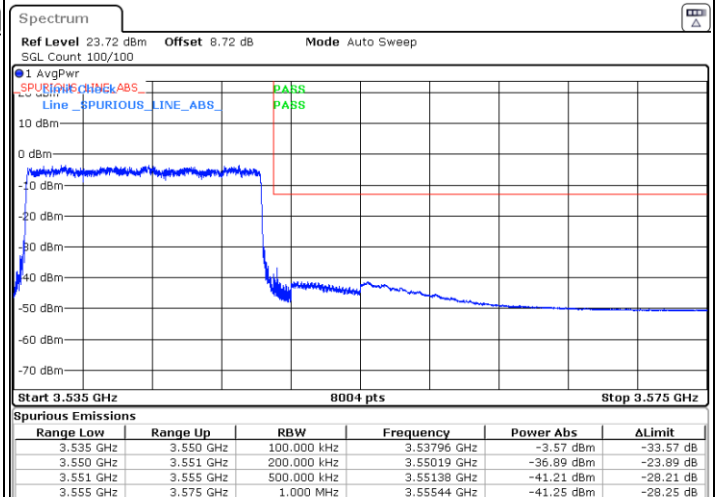
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



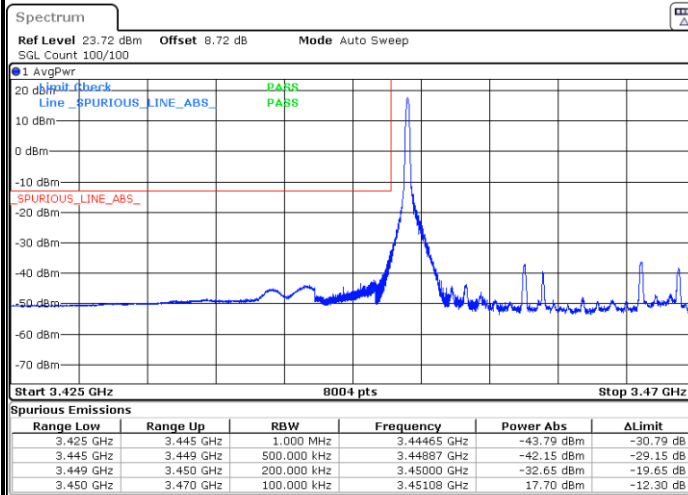
Highest Band Edge / Full RB



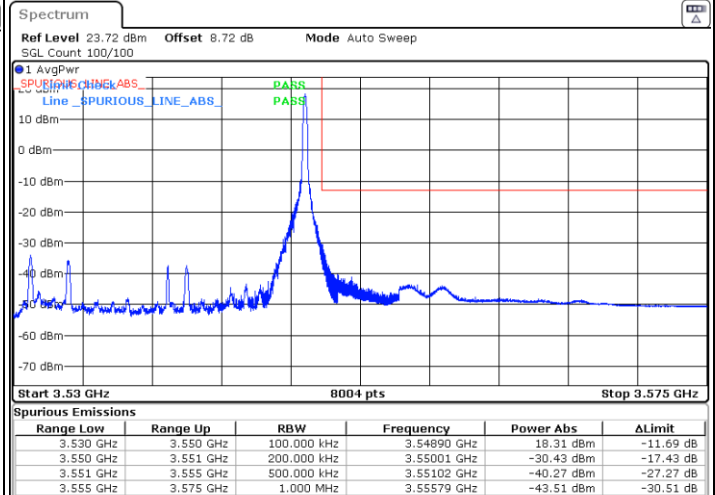


LTE Band 42 / 20MHz / QPSK

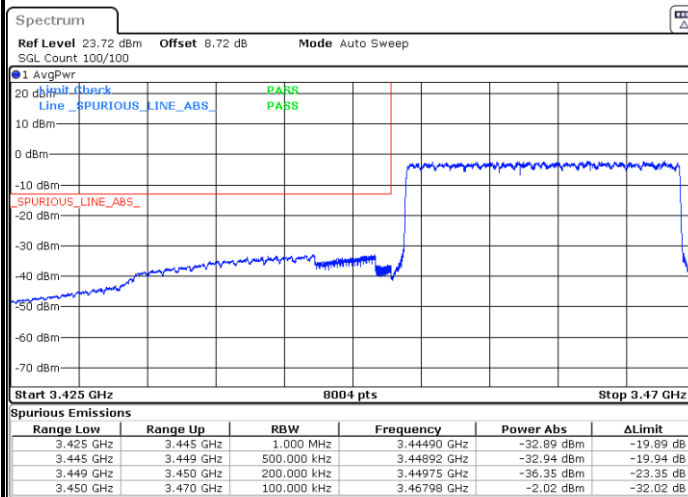
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

