Spot Check Evaluation

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2437-3
FCC ID	:	IHDT56AS9
STANDARD	:	47 CFR Part 2, 22, 24, 27, 90S 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)	:	Aug. 05, 2024 ~ Aug. 21, 2024

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

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**

1 GENERAL DESCRIPTION **4**

1.1 Applicant 4
1.2 Manufacturer 4
1.3 Product Feature of Equipment Under Test 4
1.4 Modification of EUT 4
1.5 Specification of Accessory 5
1.6 Testing Site 5
1.7 Test Software 6
1.8 Applicable Standards 6

2 RE-USE OF MEASURED DATA **7**

2.1 Introduction Section 7
2.2 Model Difference Information 7
2.3 Reference detail Section: 8
2.4 Spot Check Verification Data Section 9

3 LIST OF MEASURING EQUIPMENT **14**

4 MEASUREMENT UNCERTAINTY **17**

APPENDIX A. RADIATED SPURIOUS EMISSION TEST DATA

APPENDIX B. SETUP PHOTOGRAPHS

APPENDIX C. REFERENCE REPORT

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG471919-01B	Rev. 01	Initial issue of report	Sep. 03, 2024

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/manufacturer 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	XT2437-3
FCC ID	IHDT56AS9
IMEI Code	Conducted/DFS/CBP: 359867620008119/359867620008127 Radiation: 359867620006634 Conduction: 359867620006899/359867620006907
HW Version	DVT2
SW Version	U4UQ34.39
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 Specification of Accessory

Accessories Information				
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 1((CHILE))	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-339L
AC Adapter 1(KR)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-330L
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(ATL)	**Model Name**	RW50
Earphone 1	**Brand Name**	Motorola(Lyand)	**Model Name**	SH38D62338
Earphone 2	**Brand Name**	Motorola(Juwei)	**Model Name**	S928E43096
USB Cable 1	**Brand Name**	Motorola(Washin)	**Model Name**	S928D92375
USB Cable 2	**Brand Name**	Motorola(Saibao)	**Model Name**	S928D95755
Wireless Earphones	**Brand Name**	Motorola	**Model Name**	XT2443-1

1.6 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.**
	CO01-KS 03CH03-KS 03CH02-KS 03CH06-KS TH01-KS DFS01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH03-KS	AUDIX	E3	210616
3.	03CH02-KS	AUDIX	E3	6.2009-8-24al
4.	03CH06-KS	AUDIX	E3	210616
5.	DFS01-KS	Sporton	Test Tools	1.0
6.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 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 2, 22, 24, 27, 90S, 90S
- 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

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: XT2437-3, FCC ID: IHDT56AS9) is electrically identical to the reference device (Model: XT2437-1, XT2437-2, FCC ID: IHDT56AS8) 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.
For Conducted items of 5G NR bands please refer to report number: TR-24ADRTCC7017.
For SAR Reference detail, please refer to FCC SAR report FA471919-01.

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 transimission conditions

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AS9 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AS8 and FCC ID: IHDT56AS9 is as below:

- Remove WCDMA IV and LTE B4/12/13/17/25/66 and 5G NR n2/n66.
- Add LTE B20/32 and 5G NR n8/n20/n38/n41/n77.

Other differences and all the details of similarity and difference can be found in the confidential documents (IHDT56AS9 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	IHDT56AS8	Full test	FR471919A	IHDT56AS9	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AS8	Full test	FR471919B	IHDT56AS9	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AS8	Full test	FR471919C	IHDT56AS9	Spot check	Y, All test items
	DXX (NFC)	13.56	IHDT56AS8	Full test	FR471919D	IHDT56AS9	Spot check	Y, All test items
15E	U-NII	5180~5240	IHDT56AS8	Full test	FR471919E	IHDT56AS9	Spot check	Y, All test items
		5260~5320	IHDT56AS8	Full test	FR471919E	IHDT56AS9	Spot check	Y, All test items
		5500~5720	IHDT56AS8	Full test	FR471919E	IHDT56AS9	Spot check	Y, All test items
		5745~5825	IHDT56AS8	Full test	FR471919E	IHDT56AS9	Spot check	Y, All test items
		5260~5320 5500~5720	IHDT56AS8	Full test	FZ471919	IHDT56AS9	Spot check	Y, All test items
	6XD	5925~7125	IHDT56AS8	Full test	FR471919F	IHDT56AS9	Spot check	Y, All test items
22 24	PCE (GSM, WCDMA)	GSM 850/1900 WCDMA B2/B5	IHDT56AS8	Full test	FG471919A	IHDT56AS9	Spot check	Y, All test items
22 24 27 90	PCE (LTE)	LTE B2/B5/B7/B7C/ B26/B38/B38C/ B42/B42C	IHDT56AS8	Full test	FG471919B FG471919C FG471919D FG471919E FG471919F	IHDT56AS9	Spot check	Y, All test items
22 27	PCE (NR)	5G NR n5/n7/n26	IHDT56AS8	Full test	FG471919G	IHDT56AS9	Spot check	Y, RSE item.

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 ddB from the reference data satisfies the following condition:

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

$$d_{dB} = | V_{dB} – R_{dB} | = 6 \text{ dB} \text{ , for } M_{dB} > 60 \text{ dB} \quad (2)$$

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	IHDT56AS8 Parent Worst mode Test Result	IHDT56AS9 Variant Check Test Result	Deviation	Deviation Limit
BT 1Mbps (CH78)	Number of Channels (N)	79	79	0.00	3
	Hopping Channel Separation (MHz)	1.009	1.003	0.01	3
	Dwell Time of Each Channel(s)	0.31	0.31	0.00	3
	20dB Bandwidth(MHz)	0.95	0.94	0.01	3
	99% Bandwidth(MHz)	0.836	0.836	0.00	3
	Conducted Band Edges(dBm)	-52.28	-51.03	1.25	3
	Conducted Spurious Emission(dBm)	-43.36	-45.96	2.60	3
BT 1Mbps (CH78)	Radiated Band Edges and Radiated Spurious Emission (dBuV/m)	56.36	57.48	-1.12	3
BT	AC Conducted Emission (dBuV)	46.04	44.68	1.36	3
BLE 1Mbps (CH39)	6dB Bandwidth (MHz)	0.67	0.67	0.00	3
	99% Bandwidth (MHz)	1.02	1.02	0.00	3
	Power Spectral Density (dBm/3KHz)	-9.35	-9.50	0.15	3
	Conducted Band Edges and Spurious Emission (dBm)	-55.57	-52.79	2.78	3
	Conducted Spurious Emission (dBm)	-50.79	-49.64	1.15	3
BLE 2Mbps (CH39)	Radiated Band Edges and Spurious Emission (dBuV/m)	45.97	46.01	-0.04	3
BLE	AC Conducted Emission (dBuV)	46.04	44.68	1.36	3
WIFI 2.4G (802.11b CH11)	6dB Bandwidth (MHz)	8.06	8.02	0.04	3
	99% Bandwidth (MHz)	12.895	13.287	0.39	3
	Power Spectral Density (dBm/3KHz)	-0.08	-0.15	0.07	3
	Conducted Band Edges and Spurious Emission (dBm)	-34.75	-36.73	1.98	3
	Conducted Spurious Emission (dBm)	-50.78	-49.45	1.33	3
WIFI 2.4G (802.11ax HE40 CH03)	Radiated Band Edges and Spurious Emission (dBuV/m)	50.69	48.16	2.53	3
WIFI 2.4G	AC Conducted Emission (dBuV)	46.04	44.68	1.36	3
WIFI 5G (802.11a CH149)	26dB Emission Bandwidth (MHz)	20.91	20.45	0.46	3
	99% Occupied Bandwidth (MHz)	16.69	16.38	0.31	3
	Power Spectral Density (dBm/MHz)	8.39	7.80	0.59	3
	DFS (s)	0.763225	0.972832	0.209607	3
WIFI 5G (11ax HE40_Ch62)	Radiated Band Edges and Spurious Emission (dBuV/m)	50.80	50.41	0.39	3

WIFI 5G	AC Conducted Emission (dBuV)	36.87	36.45	0.42	3
WIFI 6G UNII-8 (802.11ax HE80 CH199)	26dB Emission Bandwidth (MHz)	81.18	80.99	0.19	3
	99% Occupied Bandwidth (MHz)	76.952	76.876	0.08	3
	Fundamental Maximum EIRP (dBm)	11.34	11.06	0.28	3
	Fundamental Power Spectral Density (dBm/MHz)	-2.05	-2.56	0.51	3
	In-Band Emissions (Channel Mask) (dB)	-37.39	-37.15	0.24	3
WIFI 6G UNII-7 (802.11ax HE160 CH199)	Contention Based Protocol (dBm)	-69.05	-68.09	0.96	3
WIFI 6G (11ax HE160_Ch15)	Radiated Band Edges and Spurious Emission (dBuV/m)	50.62	50.46	0.16	3
WLAN 6G	AC Conducted Emission (dBuV)	43.18	45.05	1.87	3
Part 15C NFC	20dB Emission Bandwidth (KHz)	2.49	2.49	0	3
	99% Occupied Bandwidth (KHz)	2.11	2.10	0.01	3
	Field Strength of Fundamental (dBuV/m @ 30m)	9.36	11.95	2.59	3
	Radiated Spurious Emissions (dBuV/m)	29.5	30.68	1.18	3
	AC Power Line Conducted Emissions(dBuV)	45.12	43.97	1.15	3
Part 22/24/27/90 (Worst LTE Band 7C)	Conducted Power(dBm)	23.01	22.85	0.16	3
	Equivalent Isotropic Radiated Power(dBm)	20.84	20.68	0.16	3
	Peak-to-Average Ratio (dB)	6.46	6.34	0.12	3
	Occupied Bandwidth(MHz)	37.80	38.12	0.32	3
	Conducted Band Edge (dBm)	-26.52	-28.49	1.97	3
	Conducted Spurious Emission(dBm)	-50.27	-51.26	0.99	3
	Frequency Stability (ppm)	0.0029	0.0026	0.00	3

Test Item	Mode	IHDT56AS8 Parent Worst mode Test Result	IHDT56AS9 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	14.05	13.76	0.29	3
	BLE 1Mbps	5.69	5.39	0.3	3
	BLE 2Mbps	5.94	5.49	0.45	3
	11b, 2.4GHz	24.78	24.42	0.36	3
	11g, 2.4GHz	27.79	27.65	0.14	3
	11n HT20, 2.4GHz	27.88	27.25	0.63	3
	11n HT40, 2.4GHz	26.14	25.2	0.94	3
	11ax 20, 2.4GHz	28.03	27.41	0.62	3
	11ax 40, 2.4GHz	26.19	25.29	0.9	3
	11a, 5.2GHz	19.36	19.01	0.35	3
	11a, 5.3GHz	20.05	19.86	0.19	3
	11a, 5.5GHz	19.69	19.12	0.57	3
	11a, 5.8GHz	21.09	20.81	0.28	3
	11n HT20, 5.2GHz	19.54	19.12	0.42	3
	11n HT20, 5.3GHz	19.66	19.25	0.41	3
	11n HT20, 5.5GHz	19.92	19.34	0.58	3
	11n HT20, 5.8GHz	20.91	20.53	0.38	3
	11ac VHT20, 5.2GHz	19.59	19.24	0.35	3
	11ac VHT20, 5.3GHz	19.72	19.34	0.38	3
	11ac VHT20, 5.5GHz	19.74	19.62	0.12	3
	11ac VHT20, 5.8GHz	20.92	20.63	0.29	3
	11ax HE20, 5.2GHz	19.67	19.08	0.59	3
	11ax HE20, 5.3GHz	19.80	19.71	0.09	3
	11ax HE20, 5.5GHz	20.02	19.27	0.75	3
	11ax HE20, 5.8GHz	21.05	20.75	0.3	3
	11n HT40, 5.2GHz	19.82	19.33	0.49	3
	11n HT40, 5.3GHz	19.60	19.17	0.43	3
	11n HT40, 5.5GHz	19.99	19.27	0.72	3
	11n HT40, 5.8GHz	19.74	19.31	0.43	3
	11ac VHT40, 5.2GHz	19.96	19.56	0.4	3
	11ac VHT40, 5.3GHz	19.71	19.22	0.49	3
	11ac VHT40, 5.5GHz	19.99	19.54	0.45	3
	11ac VHT40, 5.8GHz	19.83	19.32	0.51	3
	11ax HE40, 5.2GHz	20.37	20.02	0.35	3
	11ax HE40, 5.3GHz	20.06	19.54	0.52	3
	11ax HE40, 5.5GHz	20.39	19.98	0.41	3
	11ax HE40, 5.8GHz	20.31	19.98	0.33	3
	11ac VHT80, 5.2GHz	17.13	16.88	0.25	3
	11ac VHT80, 5.3GHz	17.56	17.11	0.45	3
	11ac VHT80, 5.5GHz	18.95	18.45	0.5	3
	11ac VHT80, 5.8GHz	18.69	18.19	0.5	3
	11ax HE80, 5.2GHz	17.19	16.84	0.35	3
	11ax HE80, 5.3GHz	17.63	17.38	0.25	3
	11ax HE80, 5.5GHz	19.63	19.31	0.32	3
	11ax HE80, 5.8GHz	19.21	18.96	0.25	3
	11ac VHT160, 5.2GHz	15.34	14.98	0.36	3
	11ac VHT160, 5.5GHz	14.75	14.32	0.43	3
	11ax HE160, 5.2GHz	15.36	15.13	0.23	3
	11ax HE160, 5.5GHz	14.76	14.35	0.41	3
	11ax HE20, U-NII-5	10.00	9.23	0.77	3

	11ax HE20, U-NII-6	9.31	8.7	0.61	3
	11ax HE20, U-NII-7	9.42	9.03	0.39	3
	11ax HE20, U-NII-8	10.04	9.82	0.22	3
	11ax HE40, U-NII-5	13.09	12.62	0.47	3
	11ax HE40, U-NII-6	12.27	12.04	0.23	3
	11ax HE40, U-NII-7	12.49	11.89	0.60	3
	11ax HE40, U-NII-8	13.39	13.13	0.26	3
	11ax HE80, U-NII-5	15.01	14.24	0.77	3
	11ax HE80, U-NII-6	14.70	14.22	0.48	3
	11ax HE80, U-NII-7	14.44	13.66	0.78	3
	11ax HE80, U-NII-8	15.64	15.36	0.28	3
	11ax HE160, U-NII-5	16.44	15.68	0.76	3
	11ax HE160, U-NII-6	16.22	15.78	0.44	3
	11ax HE160, U-NII-7	16.31	15.75	0.56	3
	11ax HE160, U-NII-8	15.37	15.17	0.2	3
	GSM 850	32.84	32.82	0.02	3
	GSM 1900	29.16	28.93	0.23	3
	WCDMA 850	23.03	22.93	0.1	3
	WCDMA1900	22.81	22.79	0.02	3
	LTE B2	22.92	22.61	0.31	3
	LTE B5	22.94	22.92	0.02	3
	LTE B26 (Part 22H)	23.06	23.05	0.01	3
	LTE B26 (Part 90S)	22.82	22.71	0.11	3
	LTE B7	23.03	23.01	0.02	3
	LTE B7C	23.01	22.85	0.16	3
	LTE B38	23.16	23.12	0.04	3
	LTE B38C	23.11	22.81	0.30	3
	LTE B42	23.15	23.02	0.13	3
	LTE B42C	23.04	22.96	0.08	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.

The same detection mechanism/software/antenna gain is used in the variant of DFS/CBP. Hence, all test cases refer to parent report.

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. 11, 2023	Aug. 16, 2024~ Aug. 18, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Aug. 16, 2024~ Aug. 18, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Aug. 16, 2024~ Aug. 18, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Aug. 15, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44GHz	Oct. 11, 2023	Aug. 15, 2024	Oct. 10, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Aug. 15, 2024	Sep. 10, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz-1GHz	Aug. 19, 2023	Aug. 15, 2024	Aug. 18, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 11, 2024	Aug. 15, 2024	Apr. 10, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 06, 2024	Aug. 15, 2024	Jan. 05, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	372171	9KHz ~1GHZ	Jan. 02, 2024	Aug. 15, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Aug. 15, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 02, 2024	Aug. 15, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 11, 2023	Aug. 15, 2024	Oct. 10, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 15, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 15, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 15, 2024	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Aug. 08, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Aug. 08, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV7	101632	10Hz~7GHz	Jan. 03, 2024	Aug. 05, 2024	Jan. 02, 2025	DFS (DFS01-KS)
Signal Generator	KEYSIGHT	N5182B	MY53050604	9KHz~6GHz	Apr. 17, 2024	Aug. 05, 2024	Apr. 16, 2025	DFS (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Aug. 05, 2024	NCR	DFS (DFS01-KS)
Signal Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 02, 2024	Aug. 21, 2024	Jan. 01, 2025	CBP (DFS01-KS)
MXG-B RF Vector Signal Genertor	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	Apr. 17, 2024	Aug. 21, 2024	Apr. 16, 2025	CBP (DFS01-KS)

NCR: No Calibration Required.

For NFC:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Jan. 05, 2024	Aug. 18, 2024	Jan. 04, 2025	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Aug. 18, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Aug. 18, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 11, 2023	Aug. 15, 2024	Oct. 10, 2024	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Aug. 15, 2024	Sep. 10, 2024	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 06, 2023	Aug. 15, 2024	Dec. 05, 2024	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Aug. 15, 2024	Jan. 02, 2025	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Aug. 15, 2024	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Aug. 15, 2024	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Aug. 15, 2024	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Aug. 08, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Aug. 08, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Conduction (CO01-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	Oct. 11, 2023	Aug. 16, 2024~ Aug. 18, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Aug. 16, 2024~ Aug. 18, 2024	NCR	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Aug. 16, 2024~ Aug. 18, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Aug. 08, 2024	Sep. 10, 2024	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-1GHz	Dec. 06, 2023	Aug. 08, 2024	Dec. 05, 2024	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Aug. 08, 2024	Oct. 22, 2024	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101115	18GHz~40GHz	Oct. 15, 2023	Aug. 08, 2024	Oct. 14, 2024	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	413740	30MHz ~1000MHz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082394	1Ghz-18Ghz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
Amplifier	Keysight	83017A	MY53270319	1GHz~26.5GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-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 (BT/WIFI2.4G/5G)

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	**±0.4 Hz**

Uncertainty of Conducted Measurement (WIFI 6G)

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	**±0.4 Hz**
Conducted Generated signal Levels	**±0.56 dB**
Conducted Time	**0.54%**

Uncertainty of Conducted Measurement (NFC)

Test Item	Uncertainty
Occupied Channel Bandwidth	**±0.1%**
Frequency	**±0.4 Hz**

Uncertainty of Conducted Measurement (DFS)

Conducted Generated signal Levels	±0.56 dB
Conducted Time	0.38%

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	±0.46 dB
Frequency Stability	±0.4 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.06 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.18 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.38 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))	3.30dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.04dB

03CH03-KS(WWAN):

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83dB

-THE END-

Appendix A. Radiated Spurious Emission Test Data

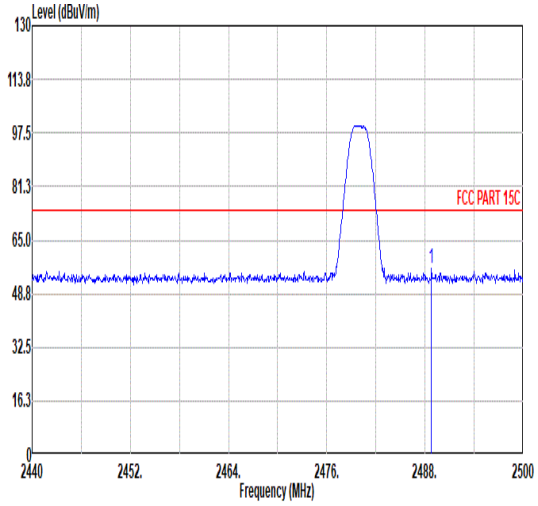
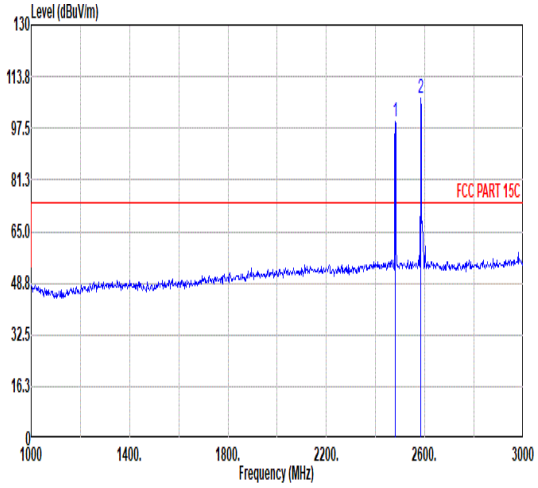
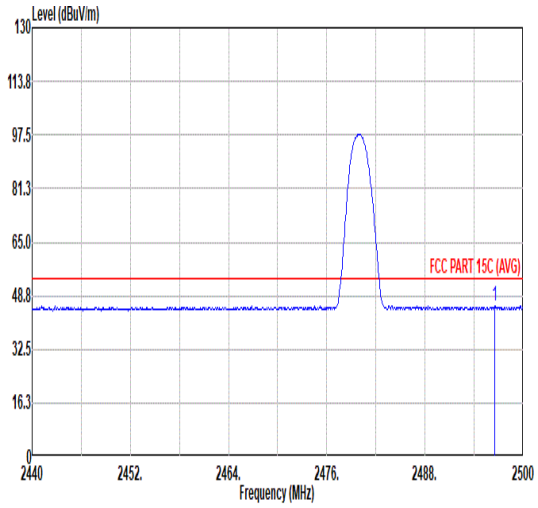
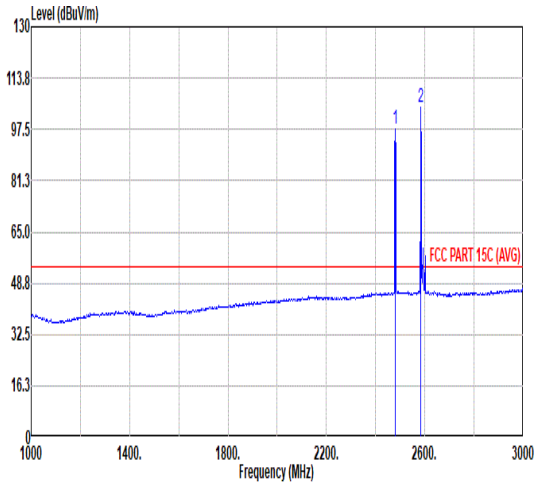
Test Engineer :	levi zhao	**Relative Humidity :**	22 ~ 23 ℃
		Temperature :	41 ~ 42 %

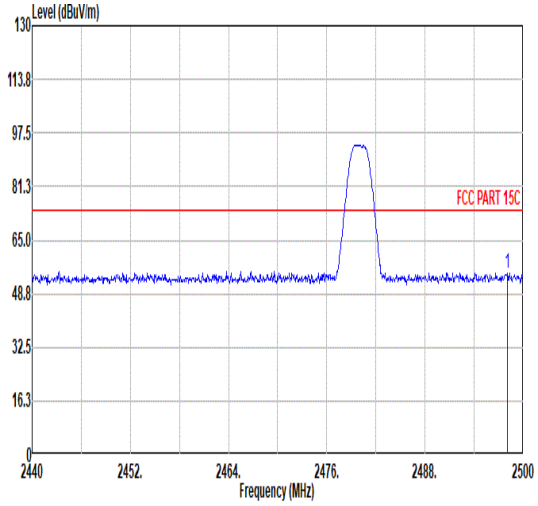
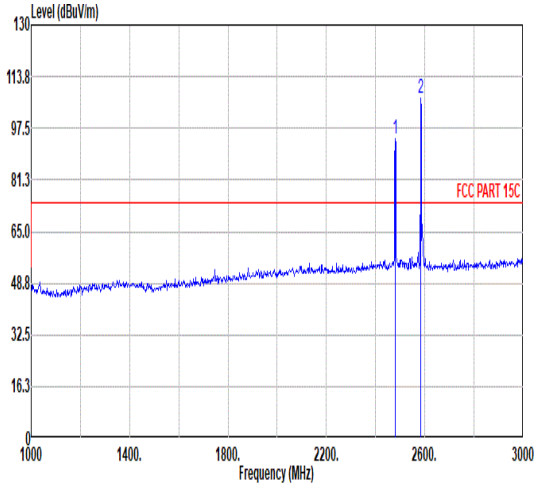
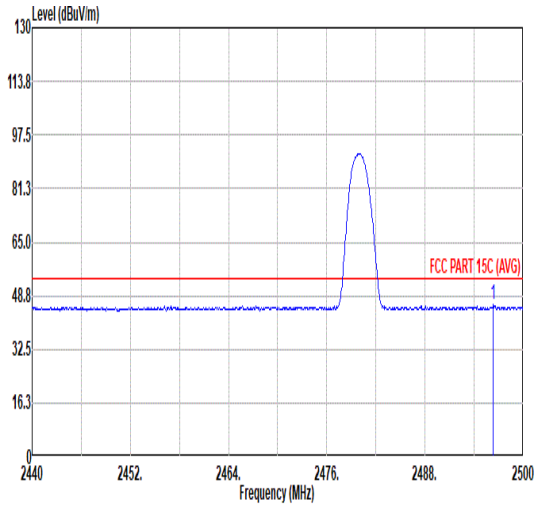
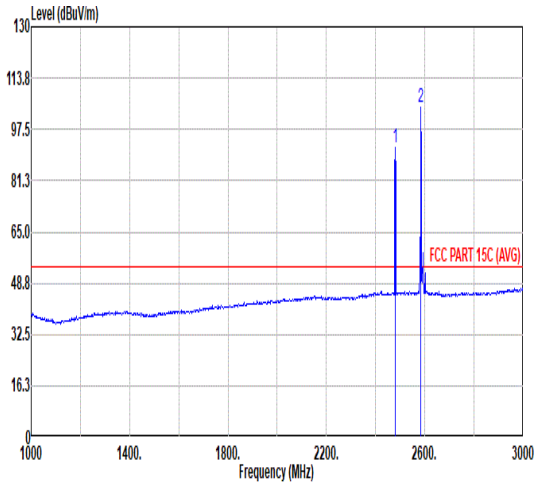
Radiated Spurious Emission Test Modes

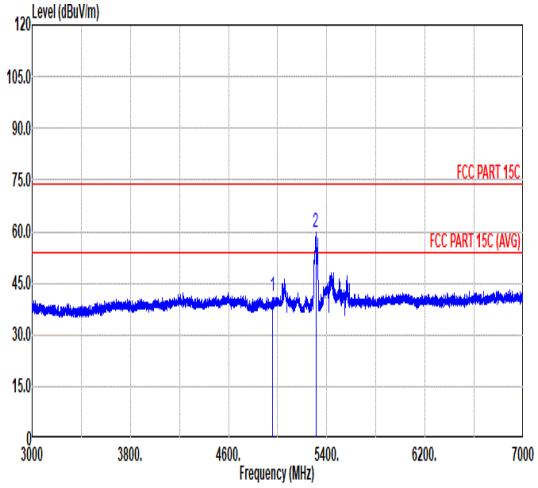
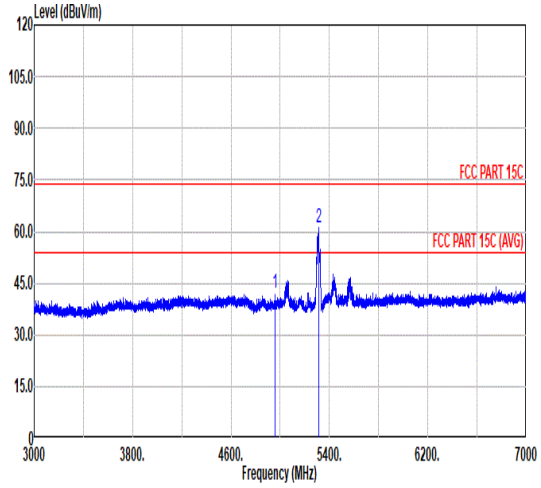
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	2400-2483.5	6	Bluetooth-LE_GSFK	39	2480	2Mbps	Full	-
	U-NII-2A	5.25-5.35	CDD 6+8	802.11ax HE40	62	5310	MCS0	Full	-
	Part 27M B41 BW=20M								
	NFC on								

Summary of each worse mode

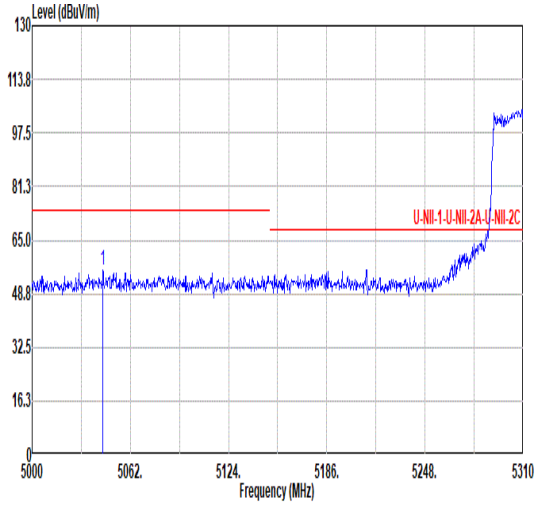
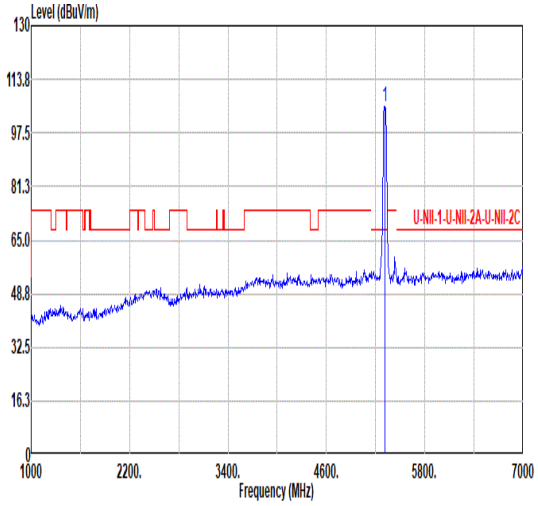
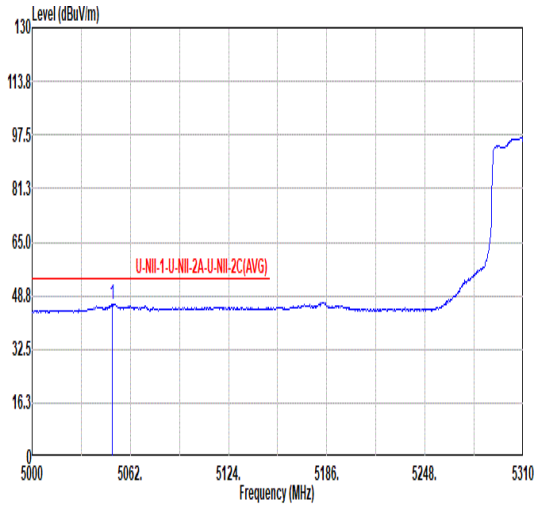
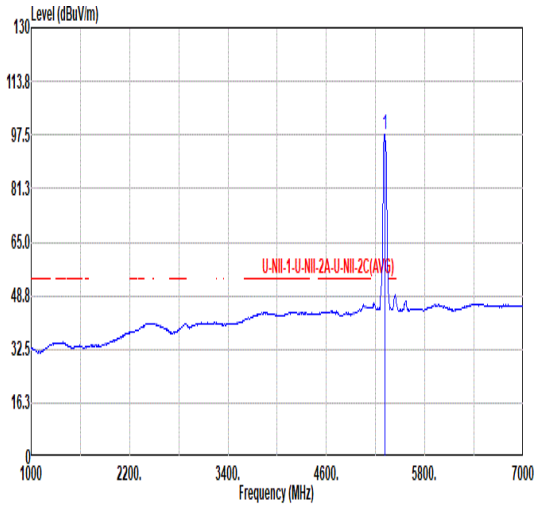
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth-LE_GSFK	39	2496.34	46.04	54.00	-7.96	V	AVERAGE	Pass	Band Edge
	Bluetooth-LE_GSFK	39	4960.00	41.94	74.00	-32.06	V	PEAK	Pass	Harmonic
	802.11ax HE40	62	5350.20	50.85	54.00	-3.15	H	Average	Pass	Band Edge
	802.11ax HE40	62	7752.40	62.37	70.20	-7.83	V	Peak	Pass	Harmonic

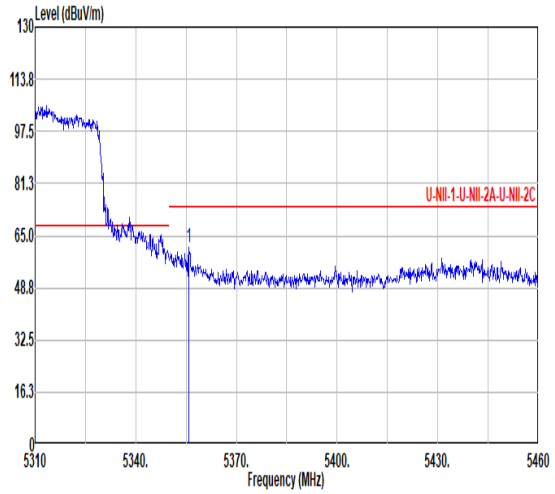
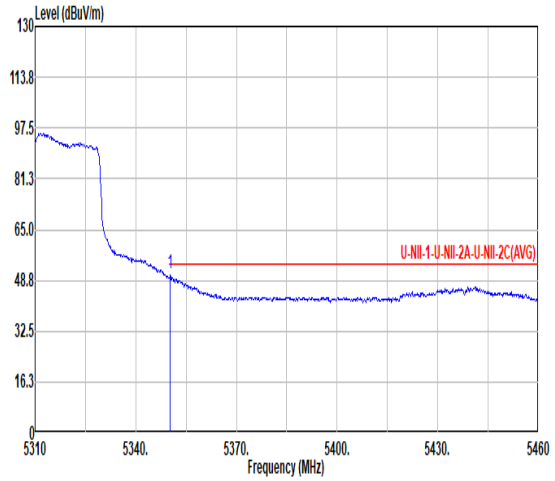
Mode	1	
	Co-location Band Edge	
	Bluetooth-LE_GSFK_CH39_2480MHz_Full	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2488.78 56.44 74.00 -17.56 43.31 32.63 6.74 32.24 6.00 307 309 PEAK	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 99.82 ------ ------ 86.74 32.58 6.73 32.23 6.00 307 309 Peak 2 2584.00 106.92 ------ ------ 93.93 32.36 6.87 32.24 6.00 307 309 Peak
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.52 45.66 54.00 -8.34 32.47 32.68 6.75 32.24 6.00 307 309 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 97.66 ------ ------ 84.58 32.58 6.73 32.23 6.00 307 309 Average 2 2584.00 104.57 ------ ------ 91.58 32.36 6.87 32.24 6.00 307 309 Average

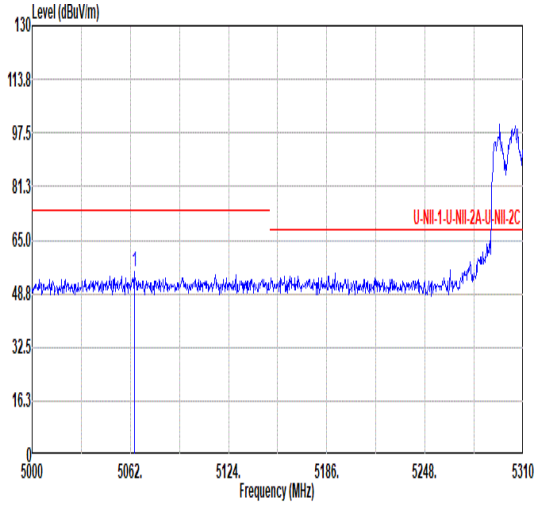
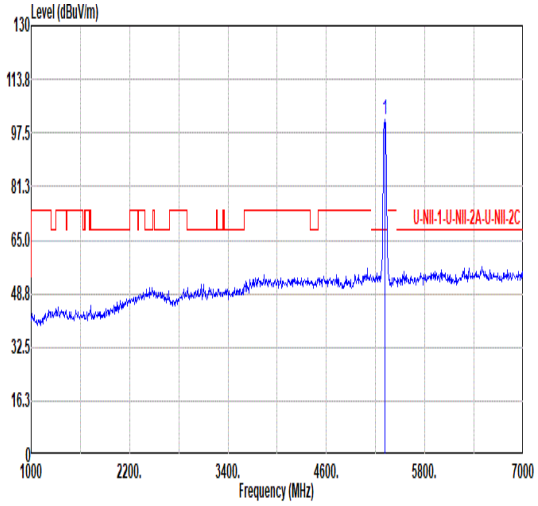
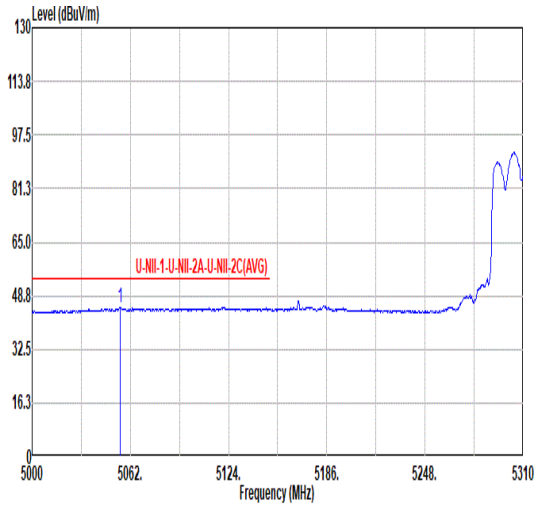
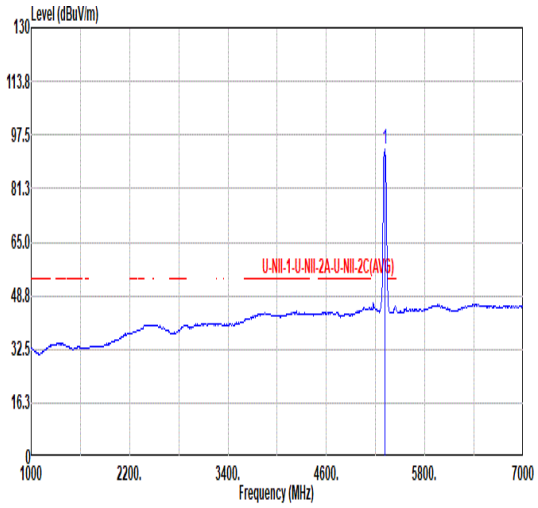
Mode	1	
	Co-location Band Edge	
	Bluetooth-LE_GSFK_CH39_2480MHz_Full	
ANT	6	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2498.02 55.14 74.00 -18.86 41.94 32.69 6.75 32.24 6.00 245 0 PEAK	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 94.01 ------ ------ 80.93 32.58 6.73 32.23 6.00 245 0 Peak 2 2584.00 106.81 ------ ------ 93.82 32.36 6.87 32.24 6.00 245 0 Peak
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.34 46.04 54.00 -7.96 32.85 32.68 6.75 32.24 6.00 245 0 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 91.80 ------ ------ 78.72 32.58 6.73 32.23 6.00 245 0 Average 2 2584.00 104.50 ------ ------ 91.51 32.36 6.87 32.24 6.00 245 0 Average

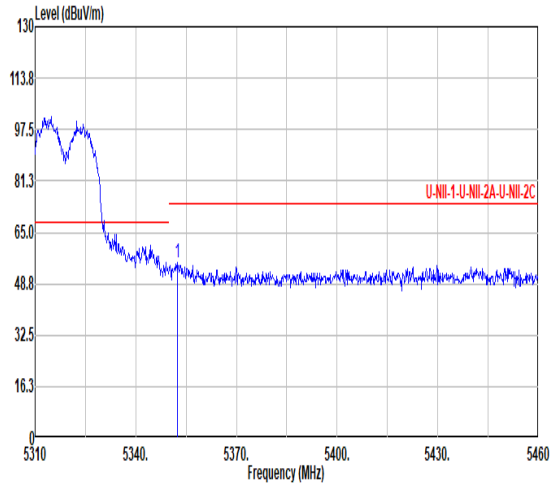
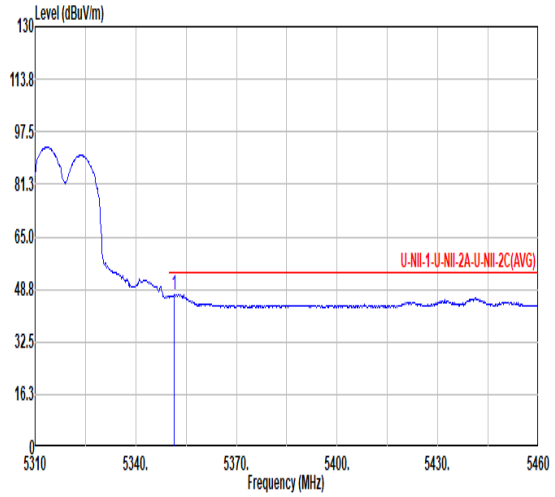
Mode	1	
	Co-location Harmonic	
	Bluetooth-LE_GSFK_CH39_2480MHz_Full	
ANT	6	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 41.34 74.00 -32.66 58.89 34.00 9.61 61.16 0.00 --- --- PEAK 2 5310.40 59.83 74.00 -14.17 76.23 34.52 9.89 60.81 0.00 --- --- Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 41.94 74.00 -32.06 59.49 34.00 9.61 61.16 0.00 --- --- PEAK 2 5313.20 60.97 74.00 -13.03 77.36 34.53 9.89 60.81 0.00 --- --- Peak

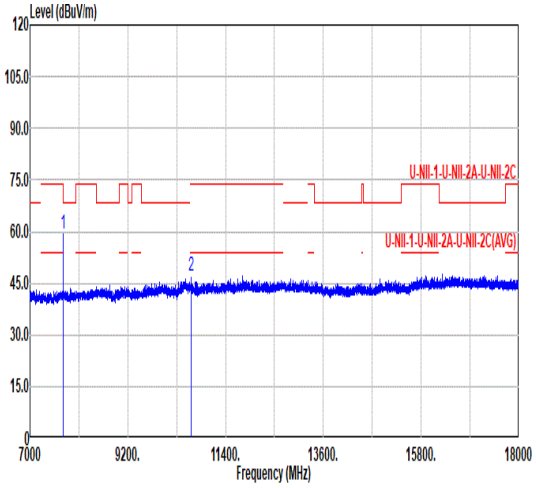
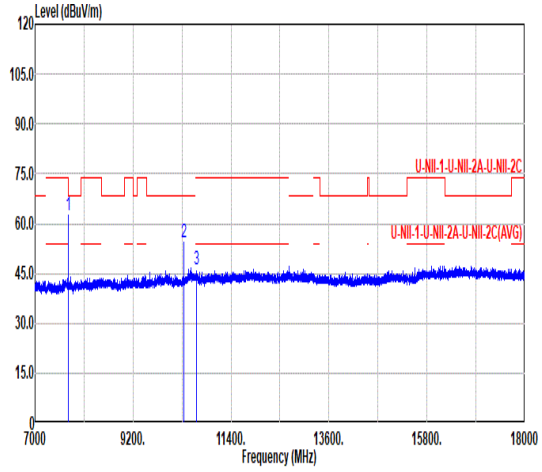
Note: #2 is co-location of WLAN 5G_CH62 TX fundamental signal.

Mode	1	
	Co-location Band Edge	
	802.11ax HE40_CH62_5310MHz_Full	
ANT	CDD 6+8	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5044.64 55.88 74.00 -18.12 44.14 34.00 9.69 31.95 0.00 100 334 PEAK	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5310.00 105.68 ------ ------ 93.06 34.53 9.89 31.80 0.00 100 334 PEAK
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5050.53 46.27 54.00 -7.73 34.51 34.00 9.70 31.94 0.00 100 334 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5310.00 97.53 ------ ------ 84.93 34.52 9.89 31.81 0.00 100 334 AVERAGE

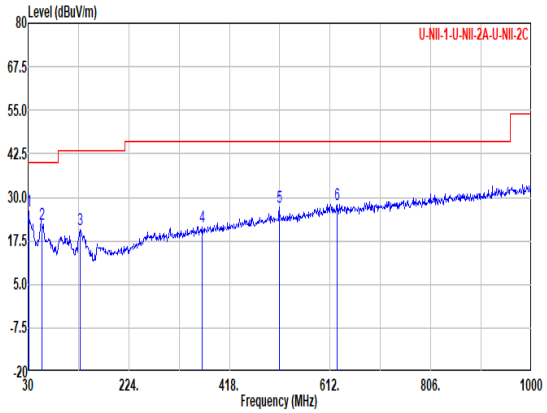
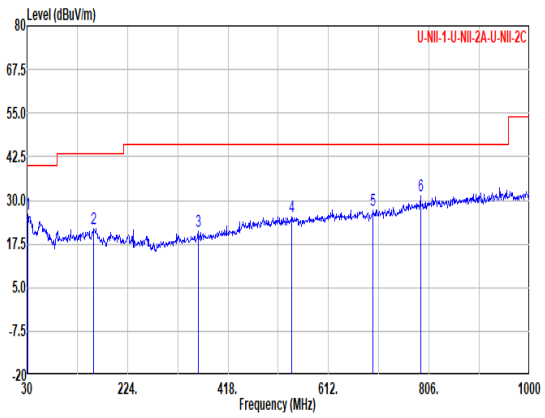
Mode	1	
	Co-location Band Edge	
	802.11ax HE40_CH62_5310MHz_Full	
ANT	CDD 6+8	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5355.90 61.36 74.00 -12.64 48.62 34.61 9.91 31.78 0.00 100 334 PEAK	Blank
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5350.20 50.85 54.00 -3.15 38.12 34.60 9.91 31.78 0.00 100 334 Average	Blank

Mode	1	
	Co-location Band Edge	
	802.11ax HE40_CH62_5310MHz_Full	
ANT	CDD 6+8	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5064.48 55.25 74.00 -18.75 43.45 34.03 9.71 31.94 0.00 300 311 PEAK	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5310.00 101.35 ------ ------ 88.73 34.53 9.89 31.80 0.00 300 311 PEAK
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5055.49 45.23 54.00 -8.77 33.46 34.01 9.70 31.94 0.00 300 311 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5310.00 93.01 ------ ------ 80.39 34.53 9.89 31.80 0.00 300 311 AVERAGE

Mode	1	
	Co-location Band Edge	
	802.11ax HE40_CH62_5310MHz_Full	
ANT	CDD 6+8	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5352.45 55.61 74.00 -18.39 42.88 34.60 9.91 31.78 0.00 300 311 PEAK	Blank
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5351.55 47.26 54.00 -6.74 34.53 34.60 9.91 31.78 0.00 300 311 AVERAGE	Blank

Mode	1	
	Co-location Harmonic	
	802.11ax HE40_CH62_5310MHz_Full	
ANT	CDD 6+8	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7752.40 59.18 70.20 -11.02 71.84 35.90 12.10 60.66 0.00 100 262 Peak 2 10620.00 46.88 74.00 -27.12 55.95 37.88 14.31 61.26 0.00 --- --- PEAK	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7752.40 62.37 70.20 -7.83 75.03 35.90 12.10 60.66 0.00 100 265 Peak 2 10336.30 54.56 68.20 -13.64 64.36 37.37 14.11 61.28 0.00 100 91 Peak 3 10620.00 46.28 74.00 -27.72 55.35 37.88 14.31 61.26 0.00 --- --- PEAK

Note: #1 is the 3rd harmonic from LTE B41, the limit should be -25dBm and converted to field strength limit 70.2dBμV/m @3m distance, the test results is Pass.

Mode	1	
	30-1G	
	802.11ax HE40_CH62_5310MHz_Full	
ANT	CDD 6+8	
Pol.	Horizontal	Vertical
Peak		

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.97	25.90	40.00	-14.10	33.01	25.09	0.76	32.96	0.00	---	---	Peak
2	57.16	22.33	40.00	-17.67	41.19	12.85	1.04	32.75	0.00	---	---	Peak
3	130.88	20.91	43.50	-22.59	34.37	17.56	1.69	32.71	0.00	---	---	Peak
4	364.65	21.59	46.00	-24.41	30.88	20.98	2.83	33.10	0.00	---	---	Peak
5	514.03	27.10	46.00	-18.90	33.04	24.33	3.15	33.42	0.00	---	---	Peak
6	625.58	27.94	46.00	-18.06	31.46	26.32	3.69	33.53	0.00	---	---	Peak

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	31.94	25.95	40.00	-14.05	33.76	24.39	0.76	32.96	0.00	---	---	Peak
2	159.01	21.96	43.50	-21.54	36.23	16.57	1.84	32.68	0.00	---	---	Peak
3	360.77	20.98	46.00	-25.02	30.36	20.88	2.81	33.07	0.00	---	---	Peak
4	540.22	25.32	46.00	-20.68	30.76	24.90	3.18	33.52	0.00	---	---	Peak
5	698.33	27.11	46.00	-18.89	30.02	26.71	3.95	33.57	0.00	---	---	Peak
6	789.51	31.24	46.00	-14.76	32.30	28.04	4.19	33.29	0.00	---	---	Peak

Appendix C. Reference Report

FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2437-1, XT2437-2
FCC ID	:	IHDT56AS8
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Jul. 27, 2024 ~ Aug. 08, 2024

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.

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

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 5
1.5 Modification of EUT 7
1.6 Specification of Accessory 7
1.7 Maximum ERP/EIRP Power and Emission Designator 8
1.8 Testing Location 10
1.9 Test Software 10
1.10 Applicable Standards 11

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **12**

2.1 Test Mode 12
2.2 Connection Diagram of Test System 14
2.3 Support Unit used in test configuration and system 14
2.4 Measurement Results Explanation Example 14
2.5 Frequency List of Low/Middle/High Channels 15

3 CONDUCTED TEST ITEMS **19**

3.1 Measuring Instruments 19
3.2 Test Setup 19
3.3 Test Result of Conducted Test 19
3.4 Conducted Output Power and ERP/EIRP 20
3.5 Peak-to-Average Ratio 21
3.6 Occupied Bandwidth 22
3.7 Conducted Band Edge 23
3.8 Conducted Spurious Emission 25
3.9 Frequency Stability 26

4 RADIATED TEST ITEMS **27**

4.1 Measuring Instruments 27
4.2 Test Setup 27
4.3 Test Result of Radiated Test 28
4.4 Radiated Spurious Emission 29

5 LIST OF MEASURING EQUIPMENT **30**

6 MEASUREMENT UNCERTAINTY **31**

APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG471919B	Rev. 01	Initial issue of report	Aug. 21, 2024
FG471919B	Rev. 02	Revise section Appendix B, about RSE test data of LTE B13; Revise section 1.4, about the note; Revise section 1.7, about the Emission Designator of LTE B2/25. This report is an update version, replacing the report issued on Aug. 21, 2024.	Aug. 23, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)	ERP < 3 Watt		-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 27.49 dB at 5625.00 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/manufacturer 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	XT2437-1, XT2437-2
FCC ID	IHDT56AS8
IMEI Code	Conducted: 355709740017816/355709740017824 Radiation: 355709740016735
HW Version	DVT2
SW Version	U4UQ34.39
EUT Stage	Identical Prototype

Remark: The two model names are only for market segment, no other difference.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 66 : 2110 MHz~ 2200 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz

	LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**Ant.0:** LTE Band 5 : 22.94 dBm LTE Band 12 : 23.02 dBm LTE Band 13 : 22.94 dBm LTE Band 17 : 22.85 dBm LTE Band 26 : 23.06 dBm **Ant.1:** LTE Band 2 : 22.92 dBm LTE Band 4 : 22.94 dBm LTE Band 25 : 22.98 dBm LTE Band 66 : 22.97 dBm **Ant.4:** LTE Band 2 : 22.18 dBm LTE Band 4 : 22.10 dBm LTE Band 5 : 22.89 dBm LTE Band 25 : 22.21 dBm LTE Band 26 : 22.97 dBm LTE Band 66 : 22.15 dBm
Antenna Gain	**Ant.0:** LTE Band 5 : -5.16 dBi LTE Band 12 : -2.34 dBi LTE Band 13 : -4.99 dBi LTE Band 17 : -2.34 dBi LTE Band 26 : -5.16 dBi **Ant.1:** LTE Band 2 : -2.18 dBi LTE Band 4 : -1.25 dBi LTE Band 25 : -2.18 dBi LTE Band 66 : -1.25 dBi **Ant.4:** LTE Band 2 : -3.0 dBi LTE Band 4 : -3.8 dBi LTE Band 5 : -5.7 dBi LTE Band 25 : -2.18 dBi LTE Band 26 : -4.3 dBi LTE Band 66 : -3.8 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Ant.1 for LTE B2/4/25/66 and Ant.0 for B5/12/13/17 and Ant.4 for B26 are shown in the report.
2. For conducted test items, only the test data of the worse Ant.0(for B12/13/26) and Ant.1(for B25/66) are shown in the report according to the maximum power.
3. LTE Band 2/4/5/26/66 support two paths which are with the same RF components, thus RF only

verify the power for two paths, and full test the path with maximum power.

1.5 Modification of EUT

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

1.6 Specification of Accessory

Accessories Information				
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 1(CHILE)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-339L
AC Adapter 1(KR)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-330L
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	**Brand Name**	Motorola(ATL)	**Model Name**	RW50
USB Cable 1	**Brand Name**	Motorola(Washin)	**Model Name**	S928D92375
USB Cable 2	**Brand Name**	Motorola(Saibao)	**Model Name**	S928D95755
Wireless Earphones	**Brand Name**	Motorola	**Model Name**	XT2443-1

1.7 Maximum ERP/EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.1135	1M10G7D	0.0916	1M10W7D
3	1851.5 ~ 1908.5	0.1172	2M71G7D	0.0893	2M72W7D
5	1852.5 ~ 1907.5	0.1164	4M50G7D	0.0914	4M51W7D
10	1855.0 ~ 1905.0	0.1156	9M03G7D	0.0925	9M09W7D
15	1857.5 ~ 1902.5	0.1159	13M5G7D	0.0918	13M5W7D
20	1860.0 ~ 1900.0	0.1186	17M9G7D	0.0929	17M9W7D
LTE Band 25		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1914.3	0.1191	1M10G7D	0.0929	1M10W7D
3	1851.5 ~ 1913.5	0.1148	2M71G7D	0.0914	2M72W7D
5	1852.5 ~ 1912.5	0.1175	4M50G7D	0.0931	4M51W7D
10	1855.0 ~ 1910.0	0.1202	9M03G7D	0.0887	9M09W7D
15	1857.5 ~ 1907.5	0.1167	13M5G7D	0.0908	13M5W7D
20	1860.0 ~ 1905.0	0.1202	17M9G7D	0.0935	17M9W7D
LTE Band 4		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.1442	1M09G7D	0.1178	1M09W7D
3	1711.5 ~ 1753.5	0.1445	2M72G7D	0.1159	2M73W7D
5	1712.5 ~ 1752.5	0.1455	4M49G7D	0.1175	4M52W7D
10	1715.0 ~ 1750.0	0.1429	8M99G7D	0.1172	9M05W7D
15	1717.5 ~ 1747.5	0.1466	13M5G7D	0.1159	13M4W7D
20	1720.0 ~ 1745.0	0.1476	17M9G7D	0.1199	17M9W7D
LTE Band 5		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0364	1M09G7D	0.0294	1M10W7D
3	825.5 ~ 847.5	0.0365	2M73G7D	0.0299	2M72W7D
5	826.5 ~ 846.5	0.0358	4M48G7D	0.0292	4M49W7D
10	829.0 ~ 844.0	0.0366	9M11G7D	0.0297	8M99W7D

LTE Band 12		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	699.7 ~ 715.3	0.0698	1M09G7D	0.0550	1M10W7D
3	700.5 ~ 714.5	0.0684	2M71G7D	0.0555	2M72W7D
5	701.5 ~ 713.5	0.0701	4M50G7D	0.0575	4M50W7D
10	704.0 ~ 711.0	0.0713	9M07G7D	0.0575	9M01W7D
LTE Band 13		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
5	779.5 ~ 784.5	0.0372	4M50G7D	0.0302	4M51W7D
10	782.0	0.0380	9M07G7D	0.0302	8M97W7D
LTE Band 17		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
5	706.5 ~ 713.5	0.0665	4M50G7D	0.0553	4M50W7D
10	709.0 ~ 711.0	0.0685	9M07G7D	0.0556	9M01W7D
LTE Band 26		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
1.4	824.7 ~ 848.3	0.0440	1M09G7D	0.0331	1M10W7D
3	825.5 ~ 847.5	0.0433	2M73G7D	0.0325	2M72W7D
5	826.5 ~ 846.5	0.0431	4M48G7D	0.0331	4M49W7D
10	829.0 ~ 844.0	0.0439	9M11G7D	0.0325	8M99W7D
15	831.5 ~ 841.5	0.0449	13M4G7D	0.0331	13M4W7D
CH26790	824.0	0.0447	13M5G7D	0.0324	13M5W7D
LTE Band 66		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
1.4	1710.7 ~ 1779.3	0.1459	1M09G7D	0.1096	1M09W7D
3	1711.5 ~ 1778.5	0.1459	2M72G7D	0.1117	2M73W7D
5	1712.5 ~ 1777.5	0.1419	4M49G7D	0.1109	4M52W7D
10	1715.0 ~ 1775.0	0.1469	8M99G7D	0.1127	9M05W7D
15	1717.5 ~ 1772.5	0.1445	13M5G7D	0.1119	13M4W7D
20	1720.0 ~ 1770.0	0.1486	17M9G7D	0.1130	17M9W7D

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.
4. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
5. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.8 Testing Location

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.**
	03CH03-KS TH01-KS	CN1257	314309

1.9 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH03-KS	AUDIX	E3	210616

1.10 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems 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.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

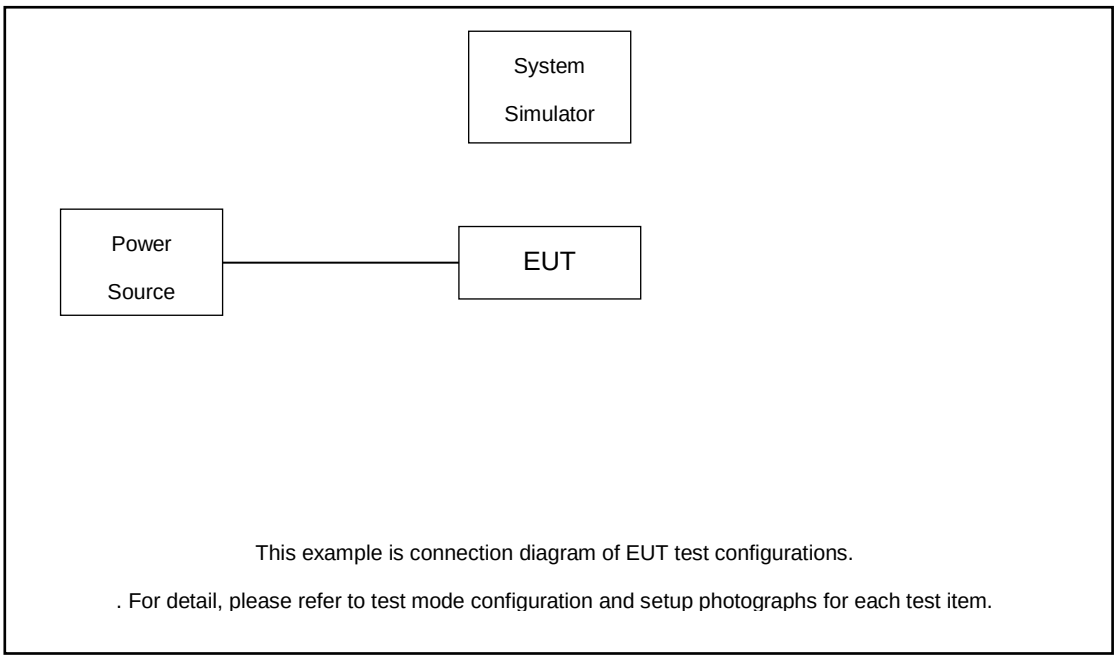
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v		v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v		v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v		v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v		v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v		v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
Peak-to-Average Ratio	12				v	-	-	v	v	v	v			v		v	
	13	-	-		v	-	-	v	v	v	v			v		v	
	25						v	v	v	v	v			v		v	
	26					v	-	v	v	v	v			v		v	
	66						v	v	v	v	v			v		v	
26dB and 99% Bandwidth	12	v	v	v	v	-	-	v	v					v		v	
	13	-	-	v	v	-	-	v	v					v		v	
	25	v	v	v	v	v	v	v	v					v		v	
	26	v	v	v	v	v	-	v	v					v		v	
	66	v	v	v	v	v	v	v	v					v		v	
Conducted Band Edge	12	v	v	v	v	-	-	v	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v	v		v	v		v
	25	v	v	v	v	v	v	v	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	v	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	12	v	v	v	v	-	-	v				v			v	v	v
	13	-	-	v	v	-	-	v				v			v	v	v
	25	v	v	v	v	v	v	v				v			v	v	v
	26	v	v	v	v	v	-	v				v			v	v	v

	66	v	v	v	v	v	v	v				v			v	v	v
Frequency Stability	12				v	-	-	v						v		v	
	13	-	-		v	-	-	v						v		v	
	25				v			v						v		v	
	26				v		-	v						v		v	
	66				v			v						v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v		v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v		v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v		v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v		v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v		v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	12	Worst Case														v	
	13	Worst Case														v	
	25	Worst Case														v	
	26	Worst Case														v	
	66	Worst Case														v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 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 4.6 dB

Example :

Offset(dB) = RF cable loss(dB)

= 4.6 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 66 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

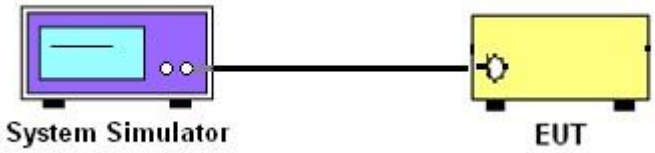
3 Conducted Test Items

3.1 Measuring Instruments

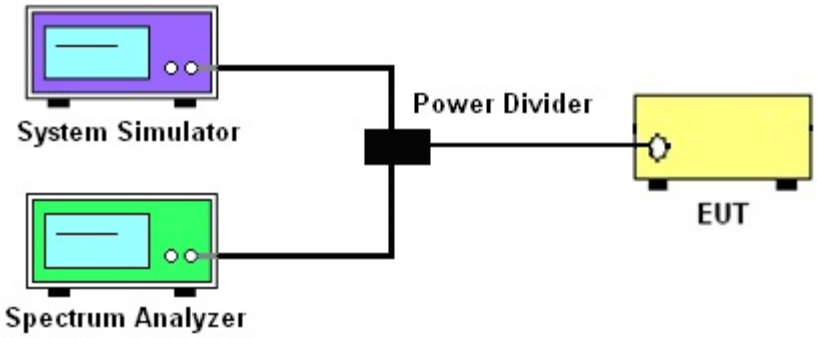
See list of measuring instruments of this test report.

3.2 Test Setup

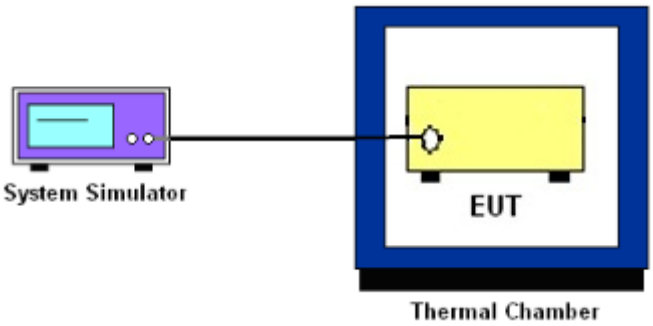
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted 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 and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

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

3.4.2 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 Occupied Bandwidth

3.6.1 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.

3.6.2 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.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz 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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz 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.

3.7.2 Test Procedures

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

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
8. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

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 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. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

3.9 Frequency Stability

3.9.1 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. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 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.

3.9.3 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.

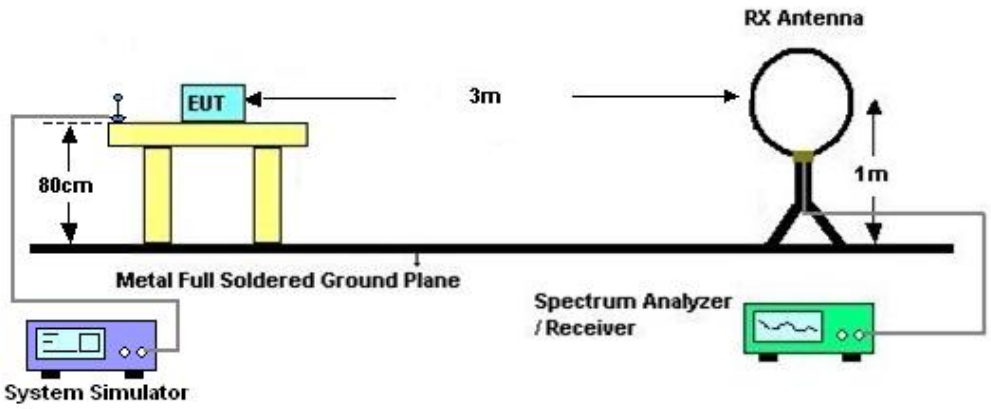
4 Radiated Test Items

4.1 Measuring Instruments

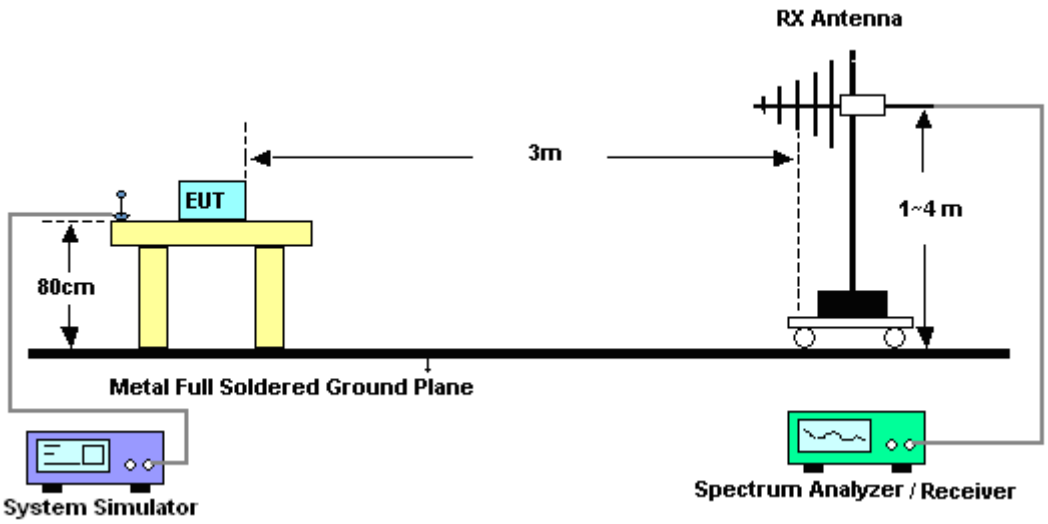
See list of measuring instruments of this test report.

4.2 Test Setup

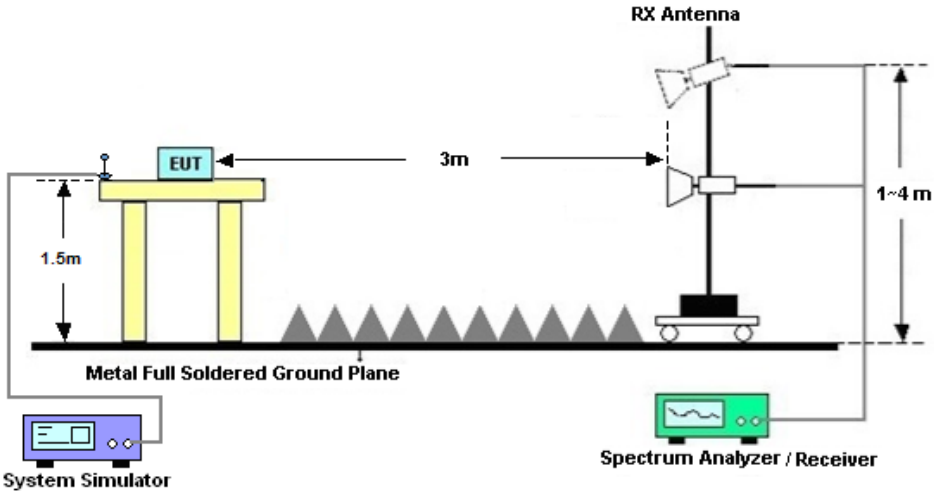
4.2.1 For radiated test below 30MHz



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

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 must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

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. 11, 2023	Jul. 27, 2024~ Jul. 30, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jul. 27, 2024~ Jul. 30, 2024	NCR	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Jul. 27, 2024~ Jul. 30, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Aug. 08, 2024	Sep. 10, 2024	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-1GHz	Dec. 06, 2023	Aug. 08, 2024	Dec. 05, 2024	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Aug. 08, 2024	Oct. 22, 2024	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101115	18GHz~40GHz	Oct. 15, 2023	Aug. 08, 2024	Oct. 14, 2024	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	413740	30MHz ~1000MHz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082394	1Ghz-18Ghz	Jan. 03, 2024	Aug. 08, 2024	Jan. 02, 2025	Radiation (03CH03-KS)
Amplifier	Keysight	83017A	MY53270319	1GHz~26.5GHz	Oct. 11, 2023	Aug. 08, 2024	Oct. 10, 2024	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 08, 2024	NCR	Radiation (03CH03-KS)

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

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.50 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))	2.84dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83dB

---------- 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 ERP/EIRP

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	22.72	22.92	22.83	0.1132	0.1186	0.1161
20	QPSK	1	99	22.66	22.84	22.82	0.1117	0.1164	0.1159
20	QPSK	100	0	21.80	21.84	21.82	0.0916	0.0925	0.0920
20	16QAM	1	0	21.78	21.86	21.82	0.0912	0.0929	0.0920
20	64QAM	1	0	20.66	20.73	20.74	0.0705	0.0716	0.0718
20	256QAM	1	0	17.70	17.73	17.71	0.0356	0.0359	0.0357
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	22.65	22.82	22.78	0.1114	0.1159	0.1148
15	16QAM	1	0	21.79	21.81	21.61	0.0914	0.0918	0.0877
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	22.50	22.81	22.62	0.1076	0.1156	0.1107
10	16QAM	1	0	21.70	21.84	21.61	0.0895	0.0925	0.0877
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	22.57	22.84	22.68	0.1094	0.1164	0.1122
5	16QAM	1	0	21.79	21.76	21.78	0.0914	0.0908	0.0912
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	22.72	22.87	22.68	0.1132	0.1172	0.1122
3	16QAM	1	0	21.68	21.69	21.66	0.0891	0.0893	0.0887
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	22.71	22.73	22.61	0.1130	0.1135	0.1104
1.4	16QAM	1	0	21.66	21.71	21.80	0.0887	0.0897	0.0916

LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	22.91	22.94	22.85	0.1466	0.1476	0.1445
20	QPSK	1	99	22.83	22.83	22.65	0.1439	0.1439	0.1380
20	QPSK	100	0	21.88	22.05	22.03	0.1156	0.1202	0.1197
20	16QAM	1	0	21.96	22.04	21.88	0.1178	0.1199	0.1156
20	64QAM	1	0	21.02	20.90	20.98	0.0948	0.0923	0.0940
20	256QAM	1	0	17.82	17.80	17.90	0.0454	0.0452	0.0462
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	22.87	22.91	22.83	0.1452	0.1466	0.1439
15	16QAM	1	0	21.89	21.89	21.82	0.1159	0.1159	0.1140
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	22.77	22.74	22.80	0.1419	0.1409	0.1429
10	16QAM	1	0	21.79	21.94	21.76	0.1132	0.1172	0.1125
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	22.83	22.88	22.65	0.1439	0.1455	0.1380
5	16QAM	1	0	21.78	21.95	21.77	0.1130	0.1175	0.1127
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	22.85	22.81	22.63	0.1445	0.1432	0.1374
3	16QAM	1	0	21.89	21.86	21.75	0.1159	0.1151	0.1122
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	22.78	22.84	22.79	0.1422	0.1442	0.1426
1.4	16QAM	1	0	21.81	21.96	21.83	0.1138	0.1178	0.1143

LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	22.83	22.94	22.88	0.0356	0.0366	0.0361
10	QPSK	1	49	22.79	22.91	22.83	0.0353	0.0363	0.0356
10	QPSK	50	0	21.94	22.03	21.89	0.0290	0.0296	0.0287
10	16QAM	1	0	21.95	22.04	22.01	0.0291	0.0297	0.0295
10	64QAM	1	0	20.95	20.94	20.87	0.0231	0.0231	0.0227
10	256QAM	1	0	18.07	18.02	17.98	0.0119	0.0118	0.0117
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	22.66	22.85	22.76	0.0343	0.0358	0.0351
5	16QAM	1	0	21.96	21.86	21.81	0.0292	0.0285	0.0282
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	22.80	22.93	22.69	0.0354	0.0365	0.0345
3	16QAM	1	0	21.84	22.06	22.00	0.0284	0.0299	0.0294
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	22.69	22.92	22.82	0.0345	0.0364	0.0356
1.4	16QAM	1	0	21.87	21.99	21.85	0.0286	0.0294	0.0284

LTE Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	22.82	23.02	22.80	0.0681	0.0713	0.0678
10	QPSK	1	49	22.69	22.82	22.77	0.0661	0.0681	0.0673
10	QPSK	50	0	21.97	22.03	21.88	0.0560	0.0568	0.0548
10	16QAM	1	0	22.09	21.98	21.94	0.0575	0.0561	0.0556
10	64QAM	1	0	20.65	20.67	20.83	0.0413	0.0415	0.0431
10	256QAM	1	0	17.77	17.88	17.83	0.0213	0.0218	0.0216
Channel				23035	23095	23155	ERP(W)		
Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	22.68	22.95	22.76	0.0659	0.0701	0.0671
5	16QAM	1	0	22.09	21.88	21.95	0.0575	0.0548	0.0557
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	22.74	22.84	22.61	0.0668	0.0684	0.0649
3	16QAM	1	0	21.93	21.87	21.93	0.0555	0.0547	0.0555
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	22.77	22.93	22.81	0.0673	0.0698	0.0679
1.4	16QAM	1	0	21.89	21.79	21.82	0.0550	0.0537	0.0541

LTE Band 13:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel					23230				
Frequency (MHz)					782			M	
10	QPSK	1	0		22.94			0.0380	
10	QPSK	1	49		22.90			0.0377	
10	QPSK	50	0		21.89			0.0299	
10	16QAM	1	0		21.94			0.0302	
10	64QAM	1	0		21.05			0.0246	
10	256QAM	1	0		17.89			0.0119	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	22.74	22.85	22.82	0.0363	0.0372	0.0370
5	16QAM	1	0	21.91	21.81	21.94	0.0300	0.0293	0.0302

LTE Band 17:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711	L	M	H
10	QPSK	1	0	22.82	22.85	22.77	0.0681	0.0685	0.0673
10	QPSK	1	49	22.66	22.78	22.58	0.0656	0.0675	0.0644
10	QPSK	50	0	21.83	21.90	21.89	0.0542	0.0551	0.0550
10	16QAM	1	0	21.82	21.94	21.73	0.0541	0.0556	0.0530
10	64QAM	1	0	20.76	20.77	20.81	0.0424	0.0425	0.0429
10	256QAM	1	0	17.88	17.92	17.87	0.0218	0.0220	0.0218
Channel				23755	23790	23825	ERP(W)		
Frequency (MHz)				706.5	710	713.5	L	M	H
5	QPSK	1	0	22.70	22.72	22.55	0.0662	0.0665	0.0640
5	16QAM	1	0	21.62	21.92	21.58	0.0516	0.0553	0.0512

LTE Band 25:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				26140	26340	26590			
Frequency (MHz)				1860	1880	1905	L	M	H
20	QPSK	1	0	22.72	22.98	22.65	0.1132	0.1202	0.1114
20	QPSK	1	99	22.66	22.95	22.55	0.1117	0.1194	0.1089
20	QPSK	100	0	21.71	21.82	21.66	0.0897	0.0920	0.0887
20	16QAM	1	0	21.83	21.89	21.87	0.0923	0.0935	0.0931
20	64QAM	1	0	20.73	20.63	20.60	0.0716	0.0700	0.0695
20	256QAM	1	0	17.82	17.87	17.78	0.0366	0.0371	0.0363
Channel				26115	26340	26615	EIRP(W)		
Frequency (MHz)				1857.5	1880	1907.5	L	M	H
15	QPSK	1	0	22.66	22.85	22.53	0.1117	0.1167	0.1084
15	16QAM	1	0	21.69	21.76	21.69	0.0893	0.0908	0.0893
Channel				26090	26340	26640	EIRP(W)		
Frequency (MHz)				1855	1880	1910	L	M	H
10	QPSK	1	0	22.64	22.98	22.49	0.1112	0.1202	0.1074
10	16QAM	1	0	21.66	21.66	21.65	0.0887	0.0887	0.0885
Channel				26065	26340	26665	EIRP(W)		
Frequency (MHz)				1852.5	1880	1912.5	L	M	H
5	QPSK	1	0	22.73	22.88	22.62	0.1135	0.1175	0.1107
5	16QAM	1	0	21.82	21.75	21.87	0.0920	0.0906	0.0931
Channel				26055	26340	26675	EIRP(W)		
Frequency (MHz)				1851.5	1880	1913.5	L	M	H
3	QPSK	1	0	22.57	22.78	22.63	0.1094	0.1148	0.1109
3	16QAM	1	0	21.79	21.73	21.68	0.0914	0.0902	0.0891
Channel				26047	26340	26683	EIRP(W)		
Frequency (MHz)				1850.7	1880	1914.3	L	M	H
1.4	QPSK	1	0	22.62	22.94	22.48	0.1107	0.1191	0.1072
1.4	16QAM	1	0	21.70	21.73	21.86	0.0895	0.0902	0.0929

LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)			
Channel				26790	26865	26915	26965				
Frequency (MHz)				824	831.5	836.5	841.5	Straddle Ch	L	M	H
15	QPSK	1	0	22.95	22.97	22.96	22.81	0.0447	0.0449	0.0448	0.0433
15	QPSK	1	74	22.71	22.74	22.75	22.50	0.0423	0.0426	0.0427	0.0403
15	QPSK	75	0	21.64	21.69	21.67	21.64	0.0330	0.0334	0.0333	0.0330
15	16QAM	1	0	21.55	21.51	21.53	21.65	0.0324	0.0321	0.0322	0.0331
15	64QAM	1	0	20.75	20.73	20.75	20.37	0.0269	0.0268	0.0269	0.0247
15	256QAM	1	0	17.51	17.47	17.54	17.59	0.0128	0.0126	0.0129	0.0130
Channel				-	26840	26915	26990	ERP(W)			
Frequency (MHz)				-	829	836.5	844	-	L	M	H
10	QPSK	1	0	-	22.86	22.87	22.64	-	0.0438	0.0439	0.0416
10	16QAM	1	0	-	21.42	21.45	21.57	-	0.0314	0.0316	0.0325
Channel				-	26815	26915	27015	ERP(W)			
Frequency (MHz)				-	826.5	836.5	846.5	-	L	M	H
5	QPSK	1	0	-	22.79	22.73	22.74	-	0.0431	0.0425	0.0426
5	16QAM	1	0	-	21.54	21.57	21.65	-	0.0323	0.0325	0.0331
Channel				-	26815	26915	27025	ERP(W)			
Frequency (MHz)				-	825.5	836.5	847.5	-	L	M	H
3	QPSK	1	0	-	22.81	22.79	22.77	-	0.0433	0.0431	0.0429
3	16QAM	1	0	-	21.56	21.57	21.48	-	0.0324	0.0325	0.0318
Channel				-	26797	26915	27033	ERP(W)			
Frequency (MHz)				-	824.7	836.5	848.3	-	L	M	H
1.4	QPSK	1	0	-	22.87	22.88	22.80	-	0.0439	0.0440	0.0432
1.4	16QAM	1	0	-	21.42	21.47	21.65	-	0.0314	0.0318	0.0331

LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	22.70	22.97	22.68	0.1396	0.1486	0.1390
20	QPSK	1	99	22.70	22.86	22.62	0.1396	0.1449	0.1371
20	QPSK	100	0	21.59	21.88	21.78	0.1081	0.1156	0.1130
20	16QAM	1	0	21.56	21.60	21.78	0.1074	0.1084	0.1130
20	64QAM	1	0	20.67	20.74	20.63	0.0875	0.0889	0.0867
20	256QAM	1	0	17.60	17.67	17.77	0.0432	0.0439	0.0449
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	22.64	22.85	22.81	0.1377	0.1445	0.1432
15	16QAM	1	0	21.56	21.74	21.58	0.1074	0.1119	0.1079
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	22.80	22.92	22.77	0.1429	0.1469	0.1419
10	16QAM	1	0	21.57	21.67	21.77	0.1076	0.1102	0.1127
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	22.74	22.77	22.71	0.1409	0.1419	0.1400
5	16QAM	1	0	21.70	21.69	21.61	0.1109	0.1107	0.1086
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	22.73	22.86	22.89	0.1406	0.1449	0.1459
3	16QAM	1	0	21.73	21.51	21.69	0.1117	0.1062	0.1107
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	22.70	22.86	22.89	0.1396	0.1449	0.1459
1.4	16QAM	1	0	21.65	21.58	21.63	0.1096	0.1079	0.1091

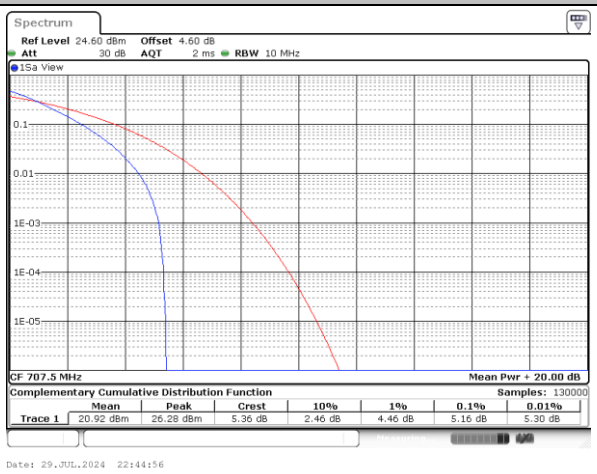
LTE Band 12

Peak-to-Average Ratio

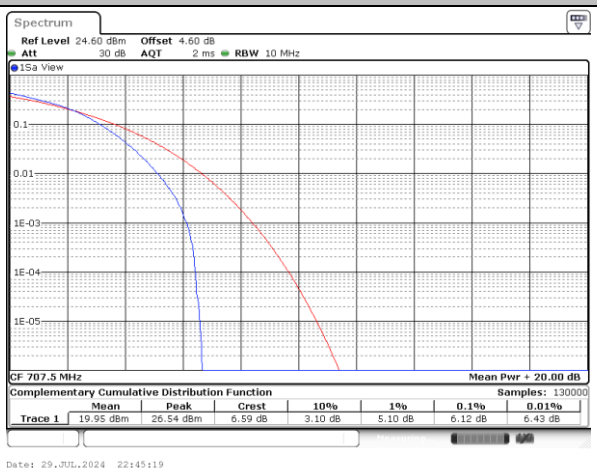
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.16	6.12	6.58	6.81	PASS

LTE Band 12 / 10MHz

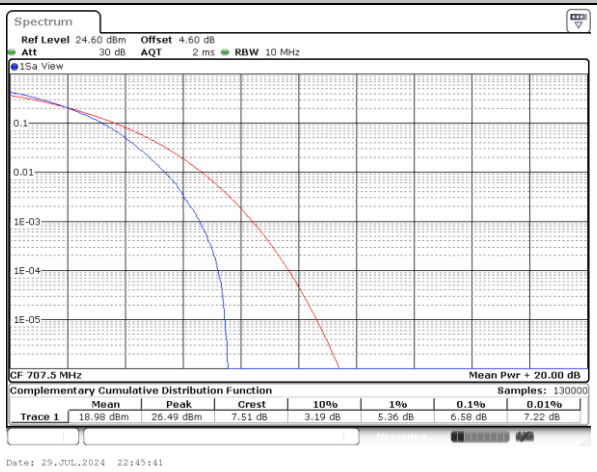
Middle Channel / Full RB/ QPSK



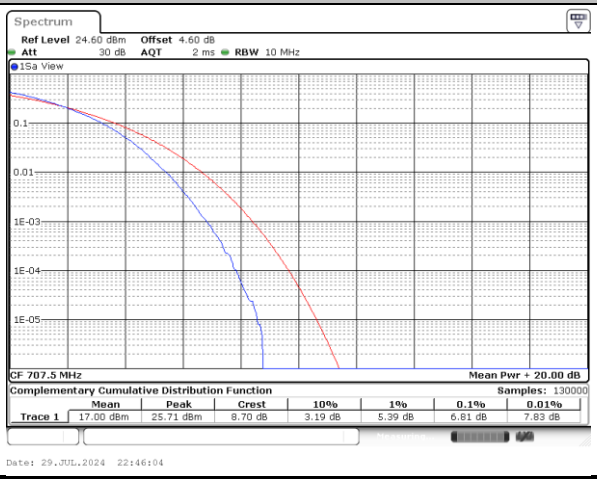
Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

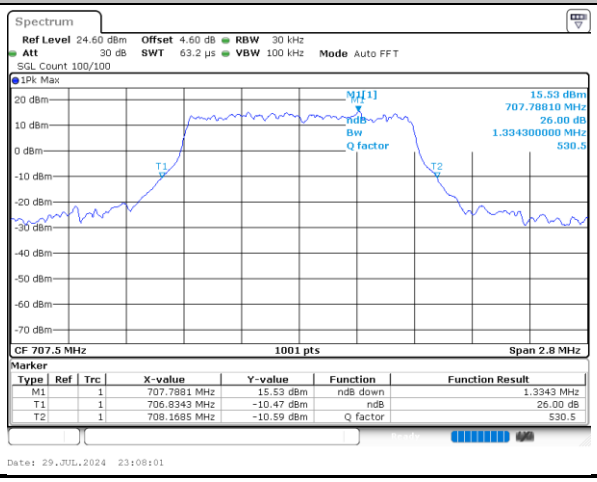
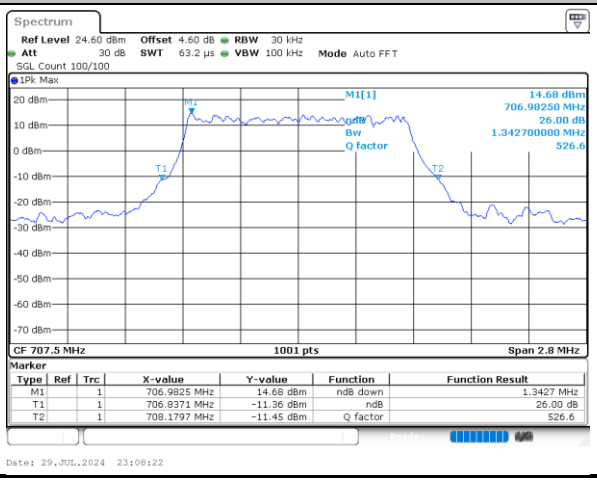


Middle Channel / Full RB/ 256QAM



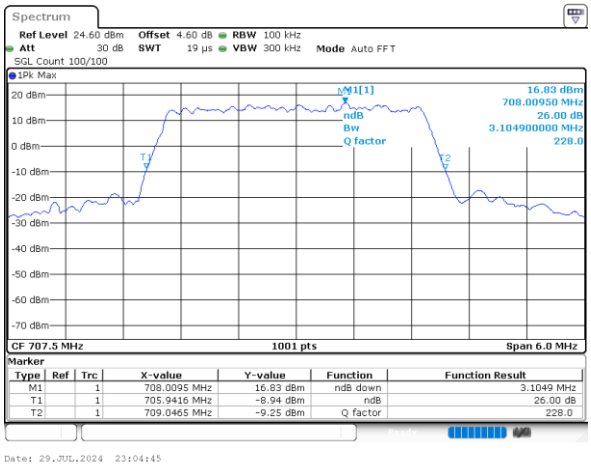
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.33	1.34
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.10	3.15
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.11	5.05
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.95	9.89

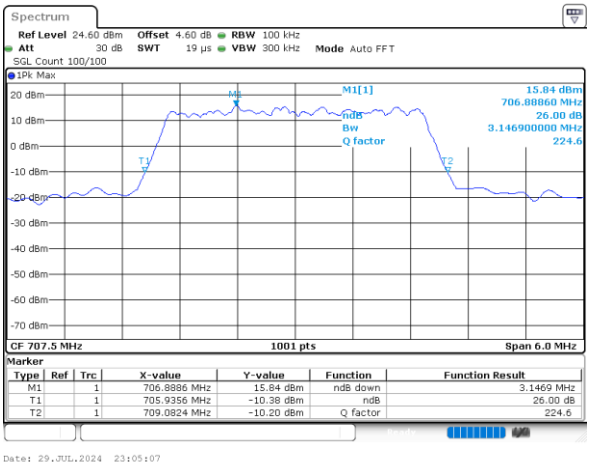
LTE Band 12	
Middle Channel / 1.4MHz / QPSK	Middle Channel / 1.4MHz / 16QAM
	

LTE Band 12

Middle Channel / 3MHz / QPSK

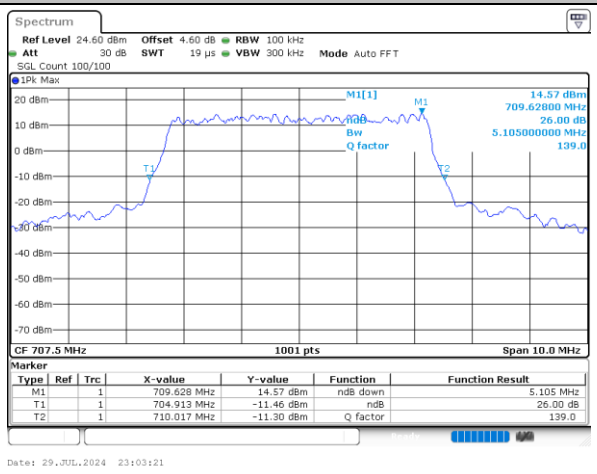


Middle Channel / 3MHz / 16QAM

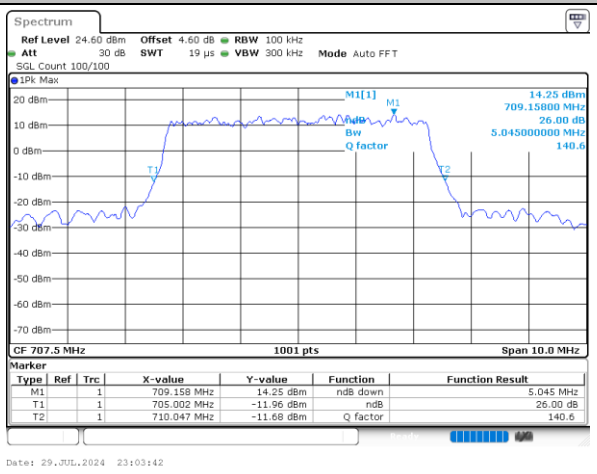


LTE Band 12

Middle Channel / 5MHz / QPSK

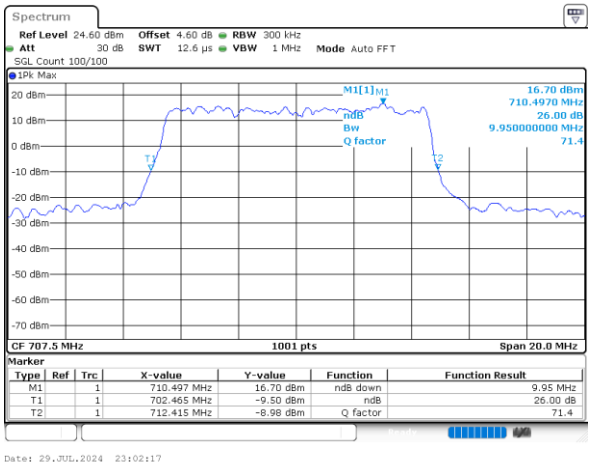


Middle Channel / 5MHz / 16QAM

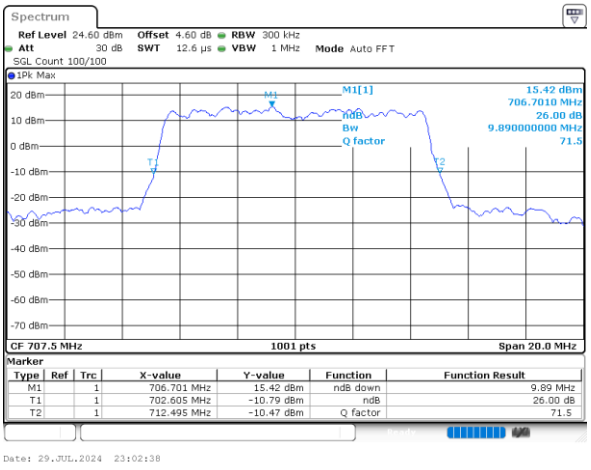


LTE Band 12

Middle Channel / 10MHz / QPSK

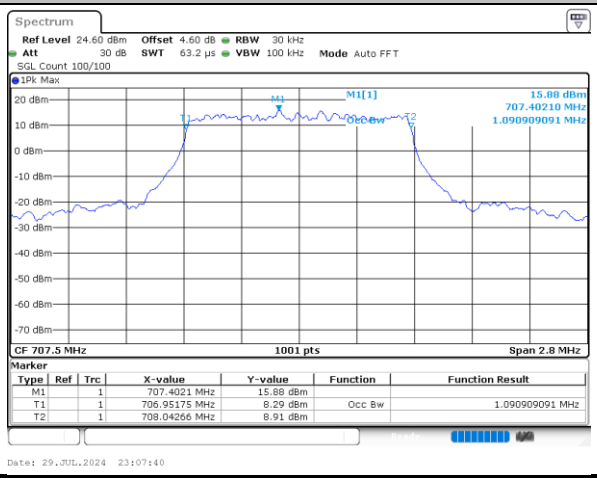
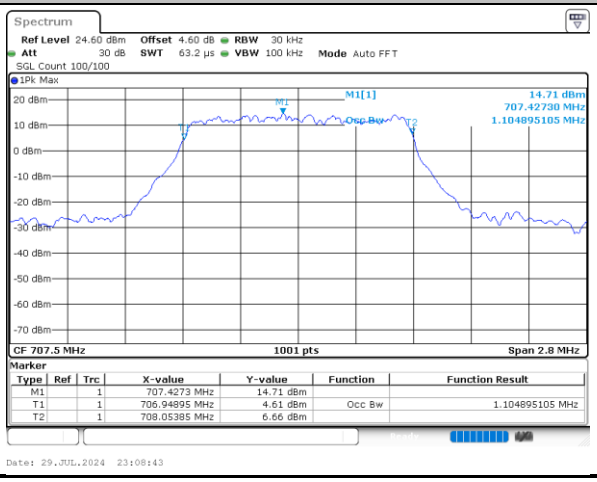


Middle Channel / 10MHz / 16QAM



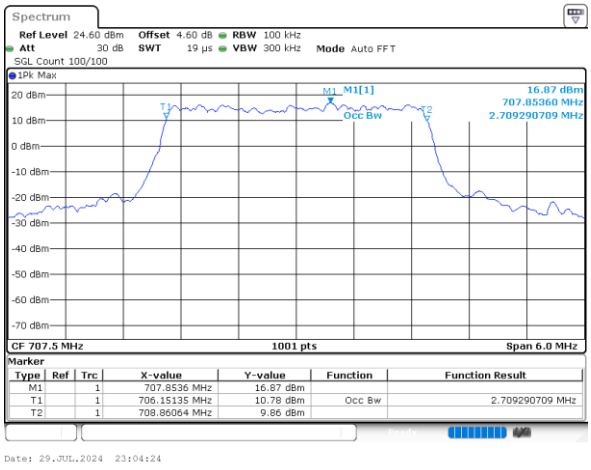
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.71	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.01

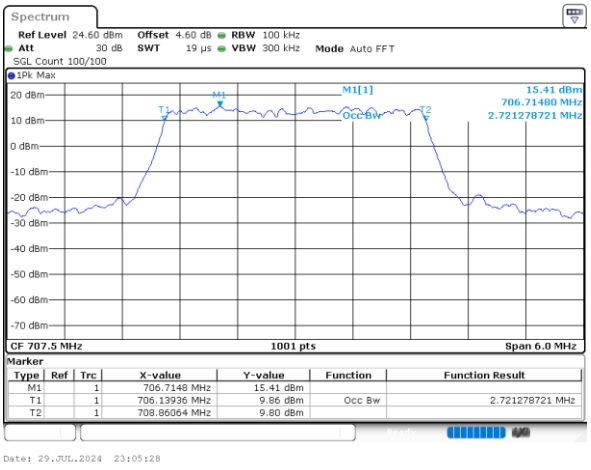
LTE Band 12	
Middle Channel / 1.4MHz / QPSK	Middle Channel / 1.4MHz / 16QAM
	

LTE Band 12

Middle Channel / 3MHz / QPSK

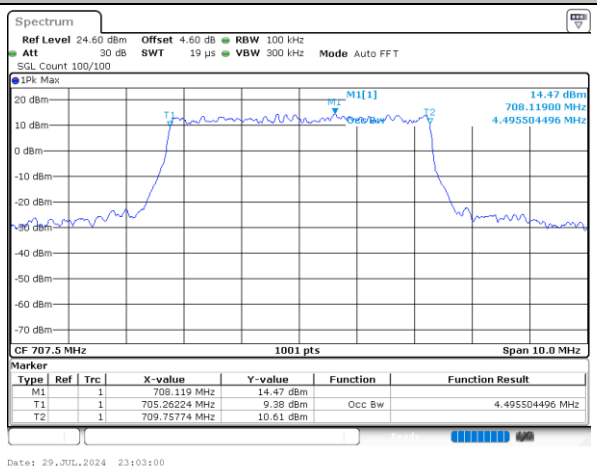


Middle Channel / 3MHz / 16QAM

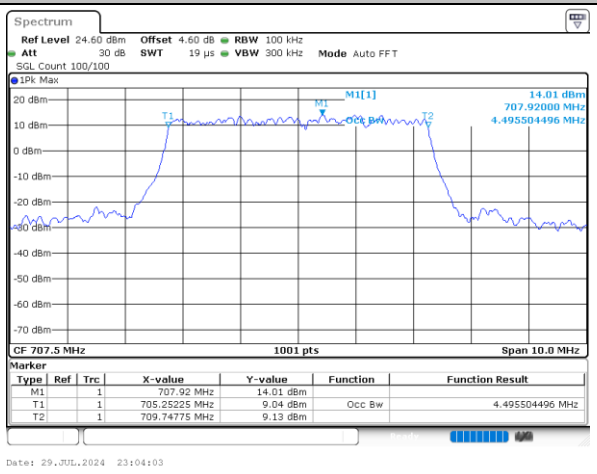


LTE Band 12

Middle Channel / 5MHz / QPSK

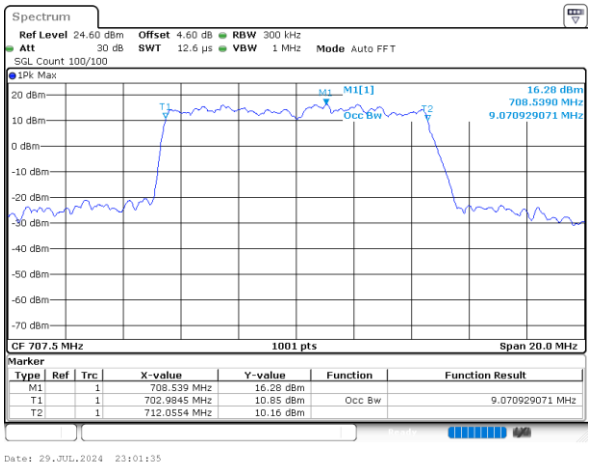


Middle Channel / 5MHz / 16QAM

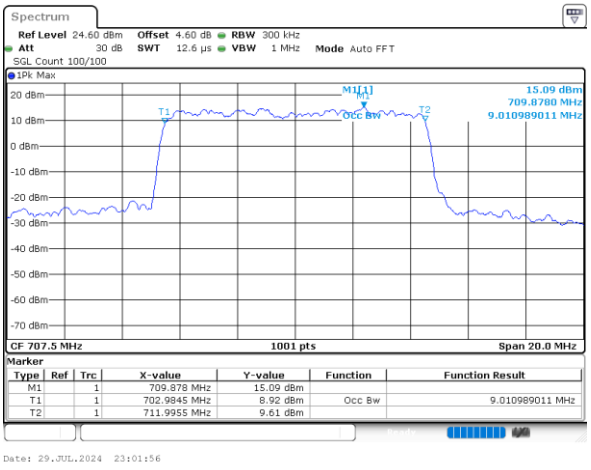


LTE Band 12

Middle Channel / 10MHz / QPSK



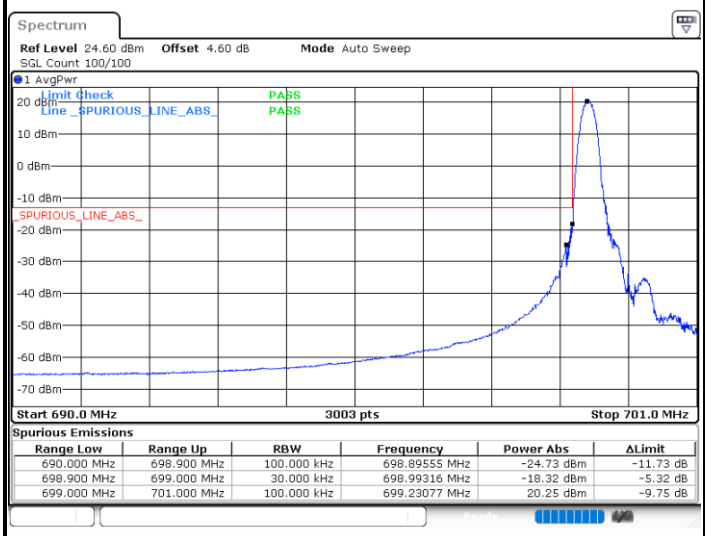
Middle Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

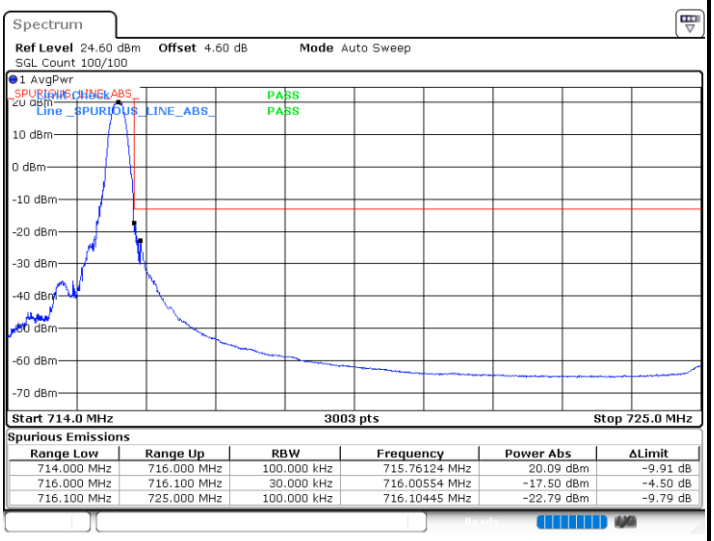


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-24.73 dBm	-11.73 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99316 MHz	-18.32 dBm	-5.32 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.23077 MHz	20.25 dBm	-9.75 dB

Date: 29.JUL.2024 21:02:34

Highest Band Edge / 1RB

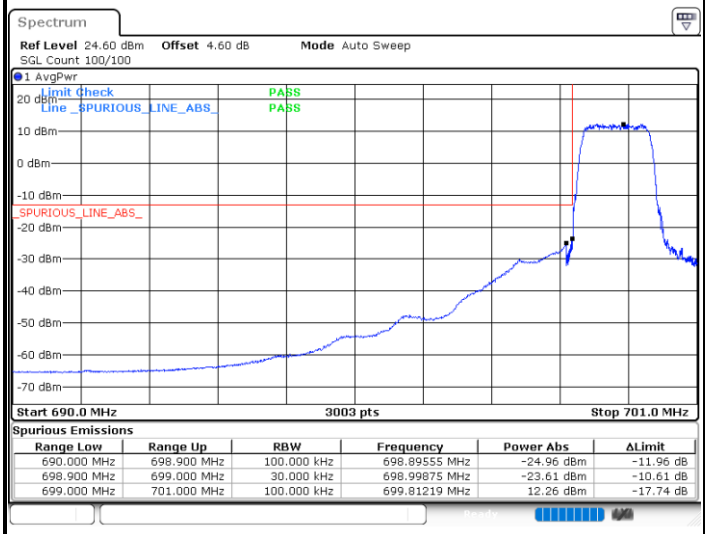


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.76124 MHz	20.09 dBm	-9.91 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00554 MHz	-17.50 dBm	-4.50 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-22.79 dBm	-9.79 dB

Date: 29.JUL.2024 21:16:07

Lowest Band Edge / Full RB

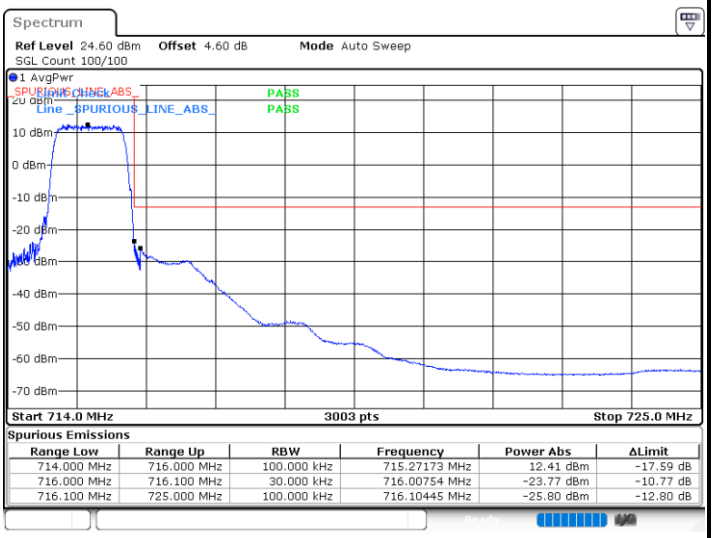


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-24.96 dBm	-11.96 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99875 MHz	-23.61 dBm	-10.61 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.81219 MHz	12.26 dBm	-17.74 dB

Date: 29.JUL.2024 21:11:57

Highest Band Edge / Full RB



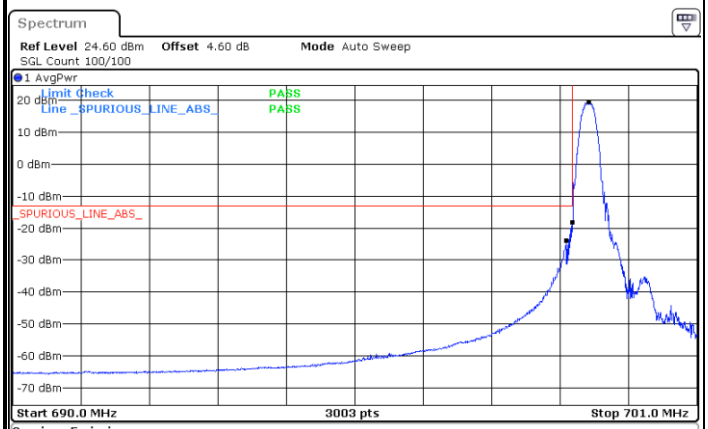
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.27173 MHz	12.41 dBm	-17.59 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00754 MHz	-23.77 dBm	-10.77 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-25.80 dBm	-12.80 dB

Date: 29.JUL.2024 21:25:31

LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

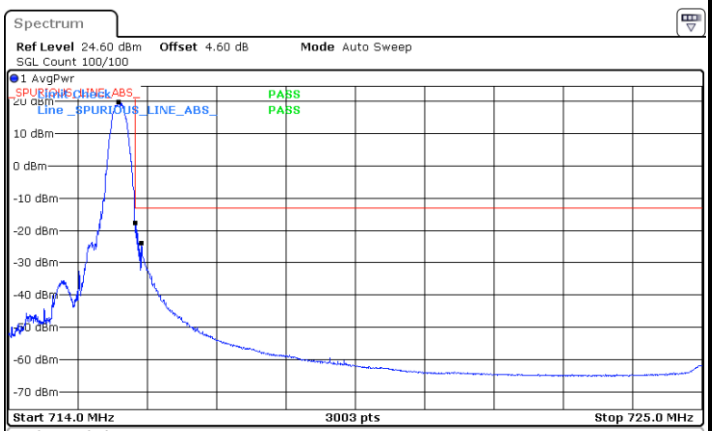


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-23.99 dBm	-10.99 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99775 MHz	-18.35 dBm	-5.35 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.26474 MHz	19.45 dBm	-10.55 dB

Date: 29.JUL.2024 21:03:54

Highest Band Edge / 1 RB

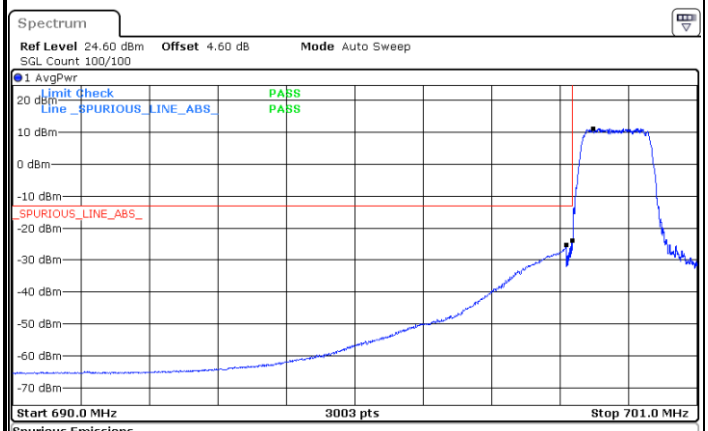


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.73726 MHz	19.74 dBm	-10.26 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00694 MHz	-17.63 dBm	-4.63 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-23.83 dBm	-10.83 dB

Date: 29.JUL.2024 21:17:27

Lowest Band Edge / Full RB

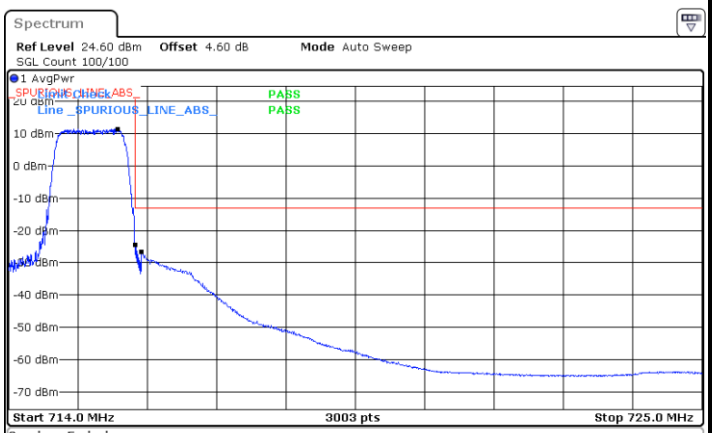


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-25.38 dBm	-12.38 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99975 MHz	-23.79 dBm	-10.79 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.32468 MHz	11.15 dBm	-18.85 dB

Date: 29.JUL.2024 21:10:37

Highest Band Edge / Full RB



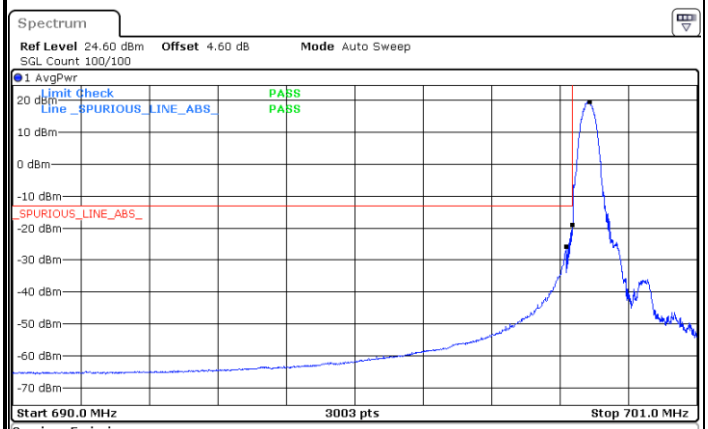
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.73127 MHz	11.42 dBm	-18.58 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00185 MHz	-24.35 dBm	-11.35 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.70 dBm	-13.70 dB

Date: 29.JUL.2024 21:24:10

LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

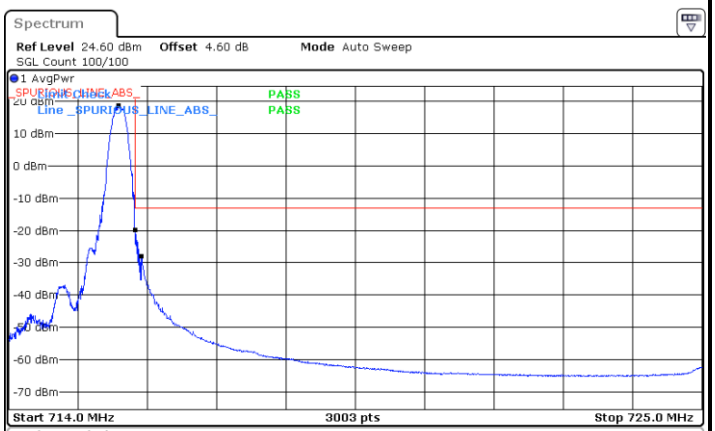


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-25.68 dBm	-12.68 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99545 MHz	-19.03 dBm	-6.03 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.26873 MHz	19.58 dBm	-10.42 dB

Date: 29.JUL.2024 21:05:14

Highest Band Edge / 1 RB

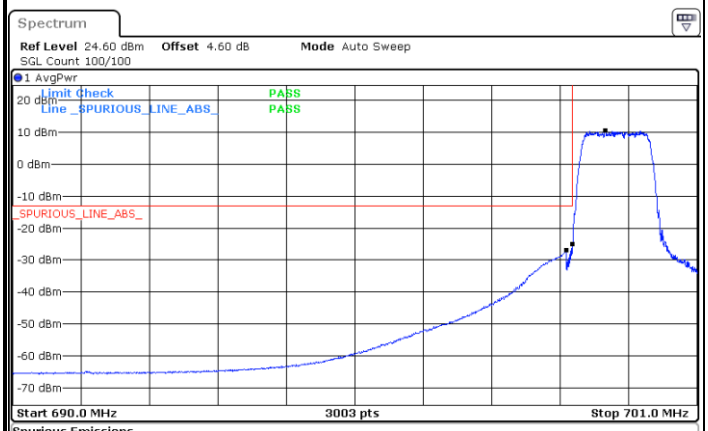


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.74725 MHz	18.72 dBm	-11.28 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00564 MHz	-19.98 dBm	-6.98 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-27.97 dBm	-14.97 dB

Date: 29.JUL.2024 21:18:47

Lowest Band Edge / Full RB

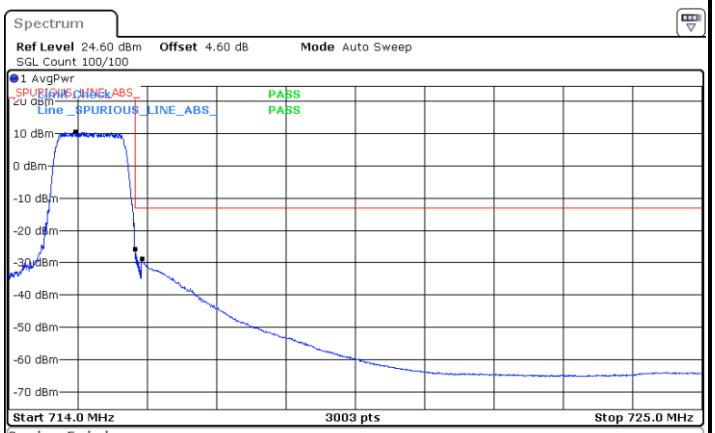


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-26.92 dBm	-13.92 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99725 MHz	-24.90 dBm	-11.90 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.52448 MHz	10.63 dBm	-19.37 dB

Date: 29.JUL.2024 21:09:17

Highest Band Edge / Full RB



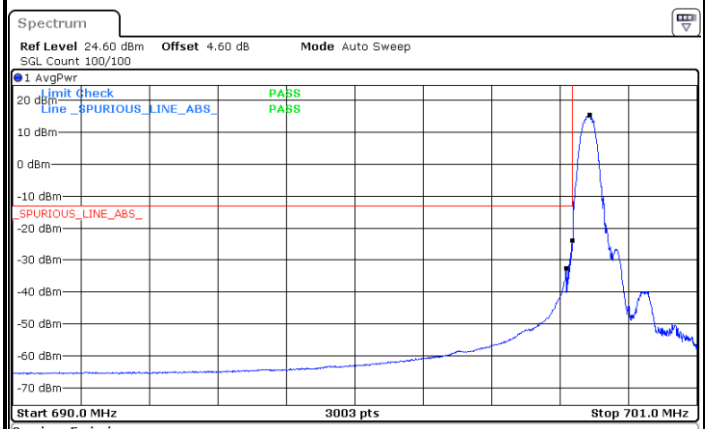
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.06194 MHz	10.51 dBm	-19.49 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00385 MHz	-25.69 dBm	-12.69 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-28.70 dBm	-15.70 dB

Date: 29.JUL.2024 21:22:50

LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB

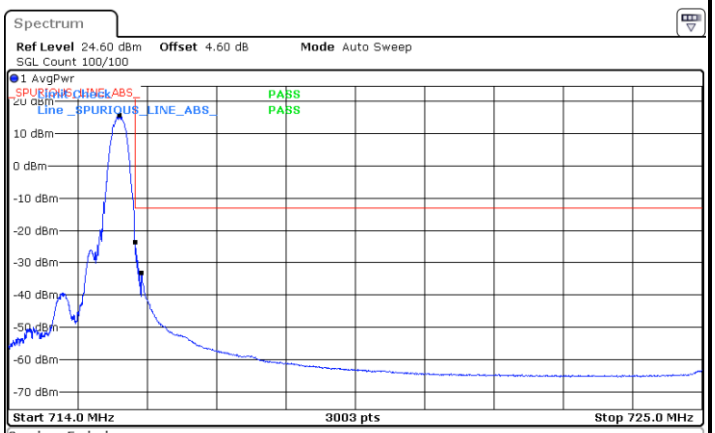


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.56 dBm	-19.56 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99535 MHz	-23.89 dBm	-10.89 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.27073 MHz	15.27 dBm	-14.73 dB

Date: 29.JUL.2024 21:06:34

Highest Band Edge / 1 RB

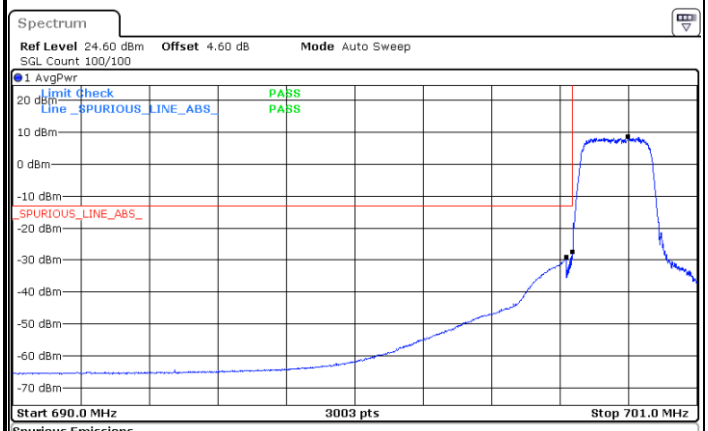


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.75325 MHz	15.55 dBm	-14.45 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00065 MHz	-23.56 dBm	-10.56 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.03 dBm	-20.03 dB

Date: 29.JUL.2024 21:20:07

Lowest Band Edge / Full RB

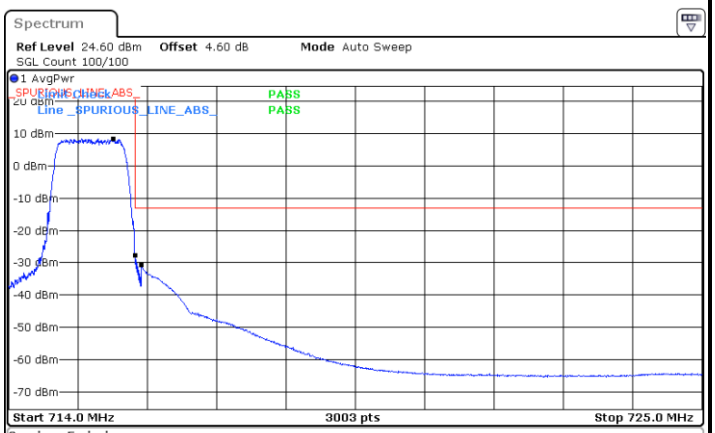


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.98 dBm	-15.98 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99795 MHz	-27.31 dBm	-14.31 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.88212 MHz	8.54 dBm	-21.46 dB

Date: 29.JUL.2024 21:07:57

Highest Band Edge / Full RB



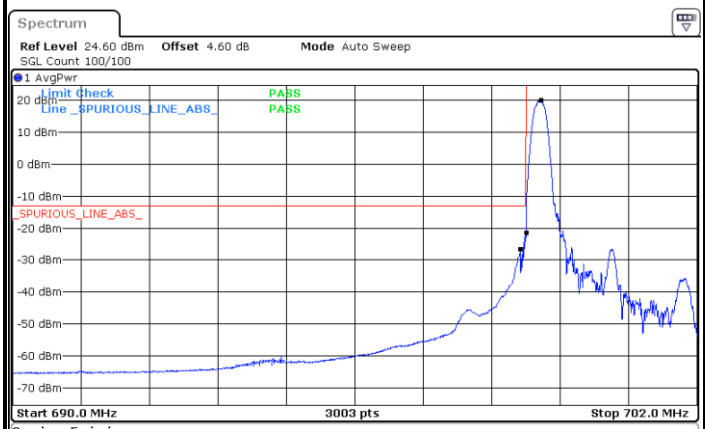
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.66334 MHz	8.37 dBm	-21.63 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00554 MHz	-27.71 dBm	-14.71 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.63 dBm	-17.63 dB

Date: 29.JUL.2024 21:21:30

LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

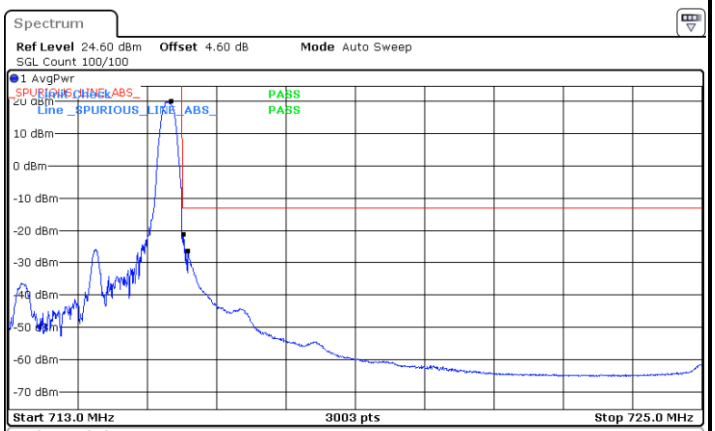


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-26.69 dBm	-13.69 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99905 MHz	-21.46 dBm	-8.46 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.25924 MHz	20.00 dBm	-10.00 dB

Date: 29.JUL.2024 21:28:16

Highest Band Edge / 1 RB

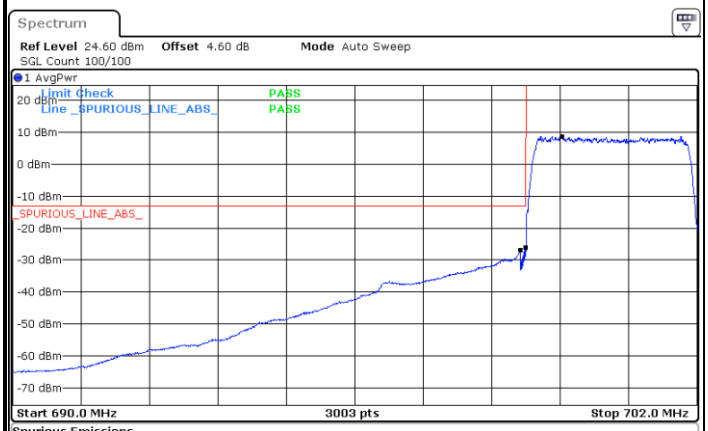


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.80669 MHz	19.90 dBm	-10.10 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01863 MHz	-21.25 dBm	-8.25 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.45 dBm	-13.45 dB

Date: 29.JUL.2024 21:42:25

Lowest Band Edge / Full RB

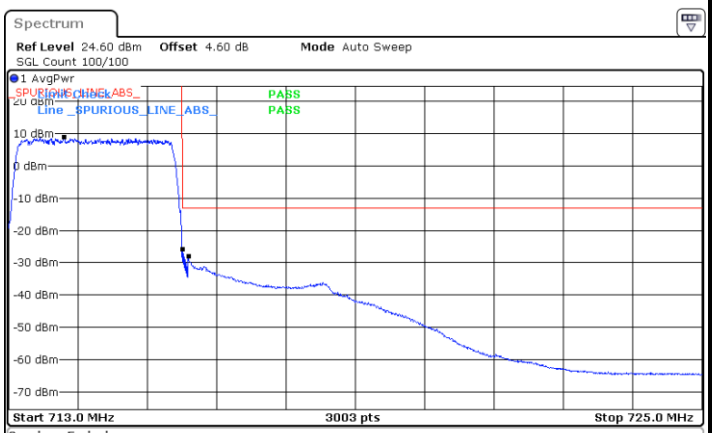


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-26.95 dBm	-13.95 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99585 MHz	-26.09 dBm	-13.09 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.62188 MHz	8.67 dBm	-21.33 dB

Date: 29.JUL.2024 21:38:16

Highest Band Edge / Full RB



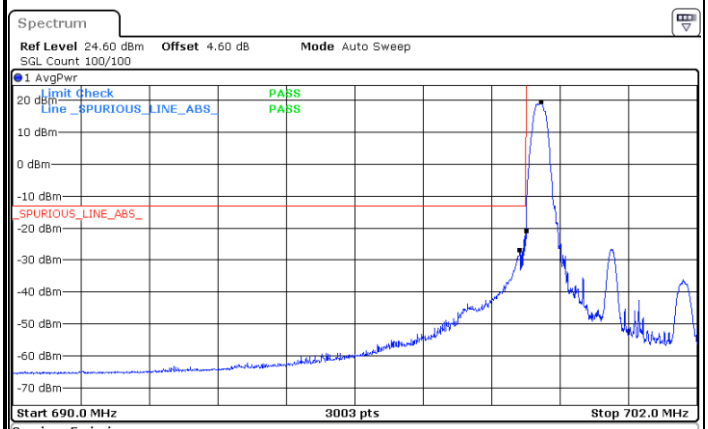
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	713.95455 MHz	8.80 dBm	-21.20 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00475 MHz	-25.89 dBm	-12.89 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-27.96 dBm	-14.96 dB

Date: 29.JUL.2024 21:53:04

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

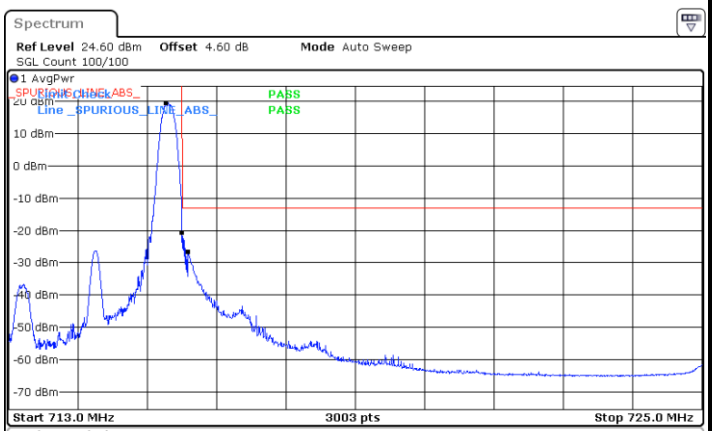


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-26.91 dBm	-13.91 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99975 MHz	-21.03 dBm	-8.03 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.26823 MHz	19.46 dBm	-10.54 dB

Date: 29.JUL.2024 21:29:36

Highest Band Edge /1 RB

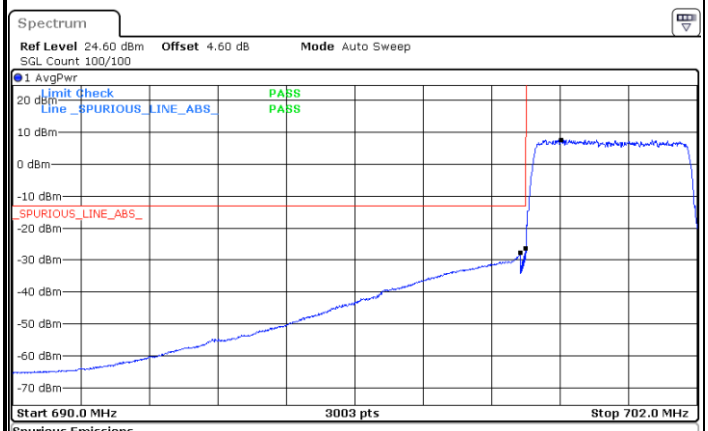


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.72278 MHz	19.47 dBm	-10.53 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00095 MHz	-20.68 dBm	-7.68 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.72 dBm	-13.72 dB

Date: 29.JUL.2024 21:43:45

Lowest Band Edge / Full RB

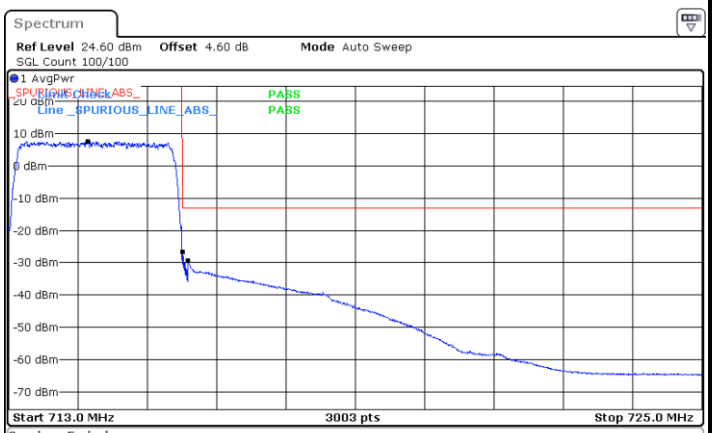


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-27.77 dBm	-14.77 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99426 MHz	-26.23 dBm	-13.23 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.60989 MHz	7.64 dBm	-22.36 dB

Date: 29.JUL.2024 21:36:56

Highest Band Edge / Full RB



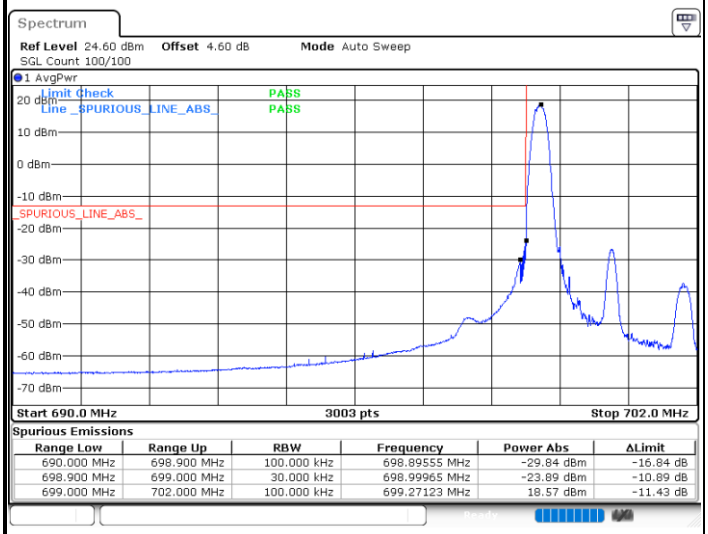
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	714.37413 MHz	7.60 dBm	-22.40 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00245 MHz	-26.51 dBm	-13.51 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.34 dBm	-16.34 dB

Date: 29.JUL.2024 21:51:53

LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

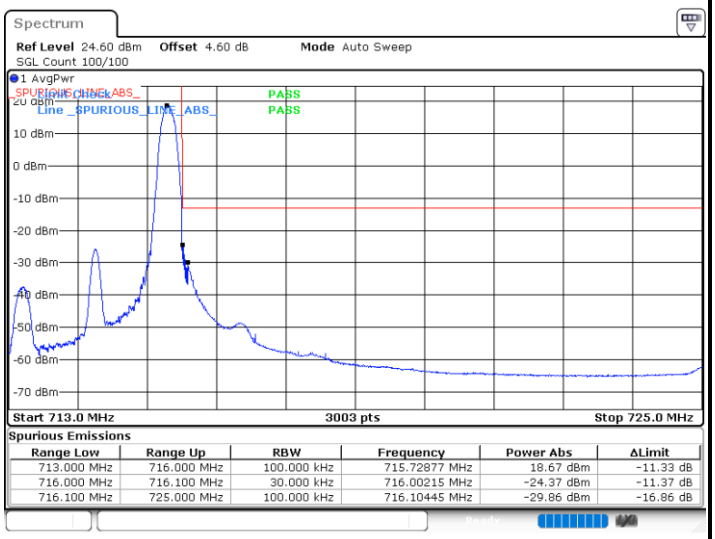


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-29.84 dBm	-16.84 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99965 MHz	-23.89 dBm	-10.89 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.27123 MHz	18.57 dBm	-11.43 dB

Date: 29.JUL.2024 21:30:56

Highest Band Edge /1 RB

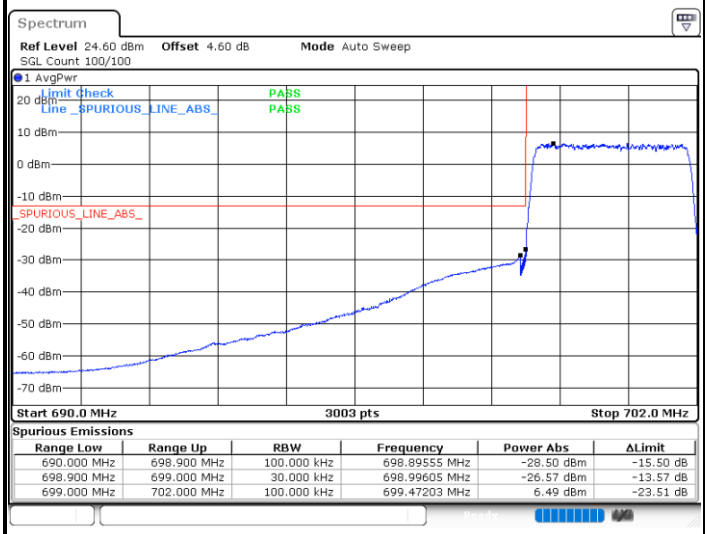


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.72877 MHz	18.67 dBm	-11.33 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00215 MHz	-24.37 dBm	-11.37 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.86 dBm	-16.86 dB

Date: 29.JUL.2024 21:45:05

Lowest Band Edge / Full RB

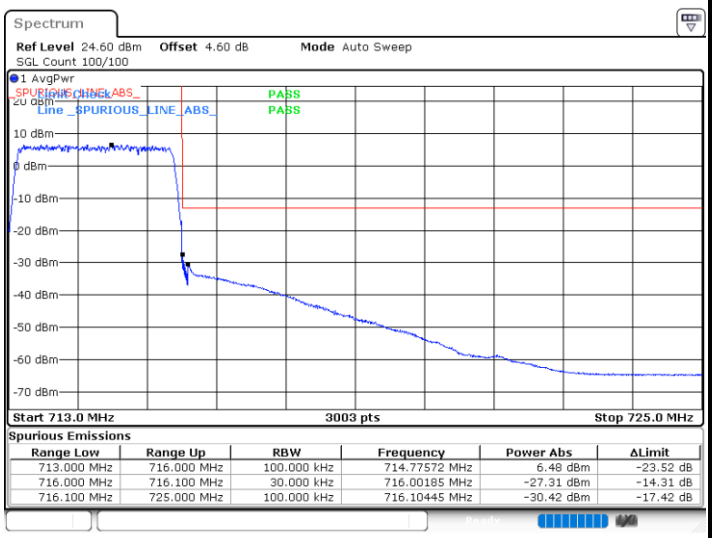


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.50 dBm	-15.50 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99605 MHz	-26.57 dBm	-13.57 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.47203 MHz	6.49 dBm	-23.51 dB

Date: 29.JUL.2024 21:35:36

Highest Band Edge / Full RB



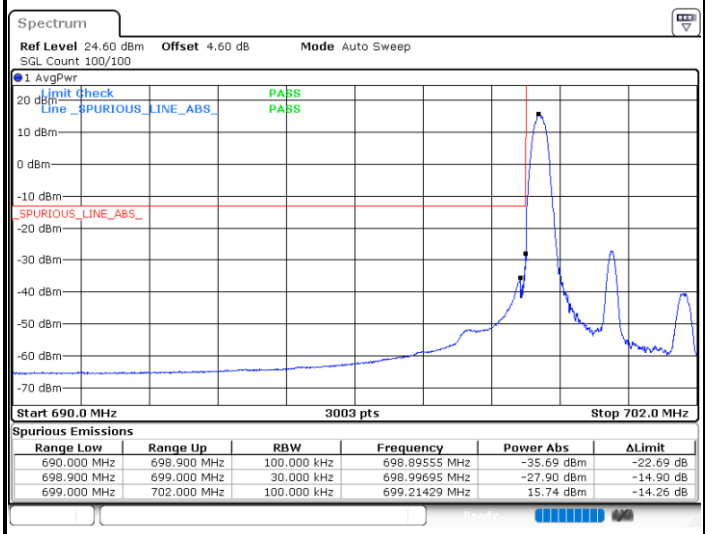
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	714.77572 MHz	6.48 dBm	-23.52 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00185 MHz	-27.31 dBm	-14.31 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.42 dBm	-17.42 dB

Date: 29.JUL.2024 21:50:43

LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB

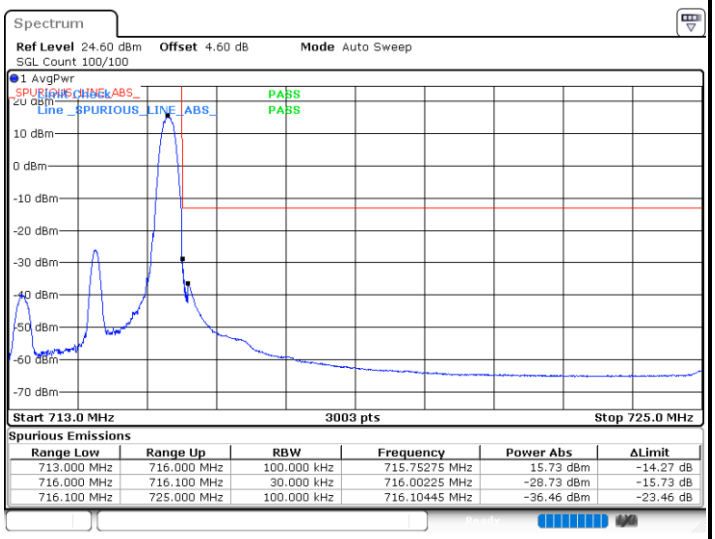


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-35.69 dBm	-22.69 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99695 MHz	-27.90 dBm	-14.90 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.21429 MHz	15.74 dBm	-14.26 dB

Date: 29.JUL.2024 21:32:16

Highest Band Edge /1 RB

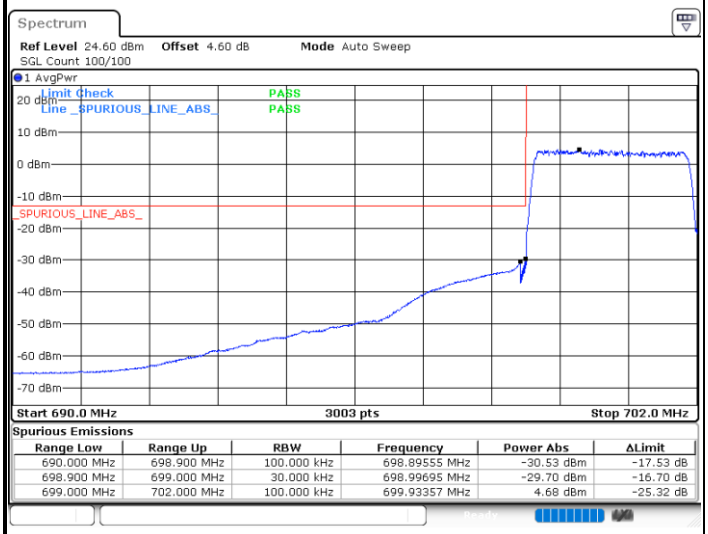


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.75275 MHz	15.73 dBm	-14.27 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00225 MHz	-28.73 dBm	-15.73 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-36.46 dBm	-23.46 dB

Date: 29.JUL.2024 21:46:25

Lowest Band Edge / Full RB

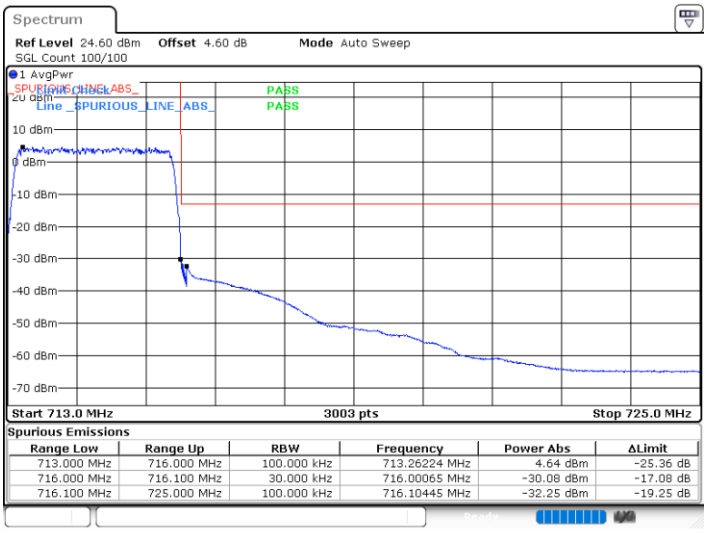


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-30.53 dBm	-17.53 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99695 MHz	-29.70 dBm	-16.70 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.93357 MHz	4.68 dBm	-25.32 dB

Date: 29.JUL.2024 21:34:13

Highest Band Edge / Full RB



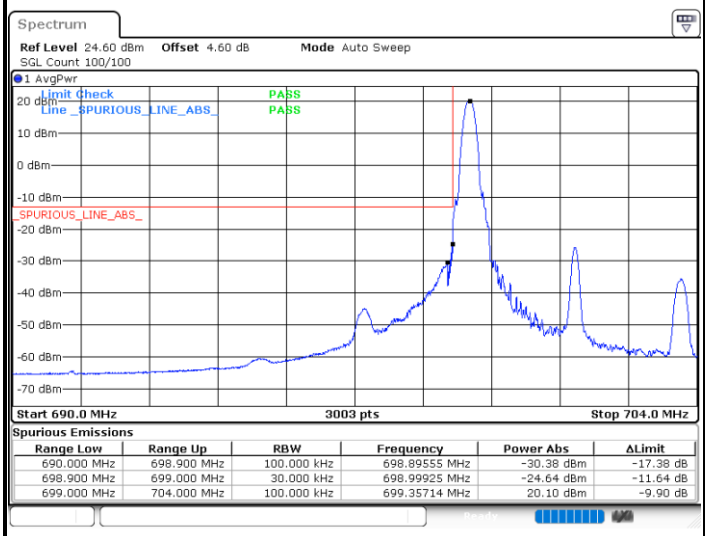
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	713.26224 MHz	4.64 dBm	-25.36 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00065 MHz	-30.08 dBm	-17.08 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.25 dBm	-19.25 dB

Date: 29.JUL.2024 21:49:31

LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

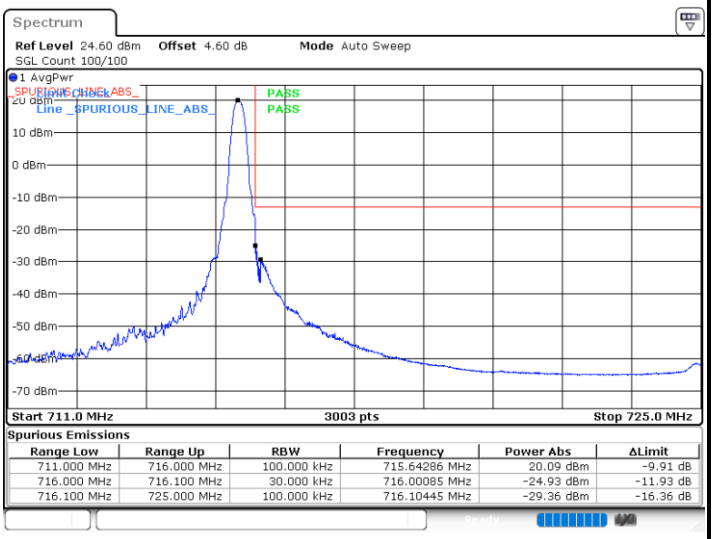


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-30.38 dBm	-17.38 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99925 MHz	-24.64 dBm	-11.64 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.35714 MHz	20.10 dBm	-9.90 dB

Date: 29.JUL.2024 21:55:40

Highest Band Edge / 1 RB

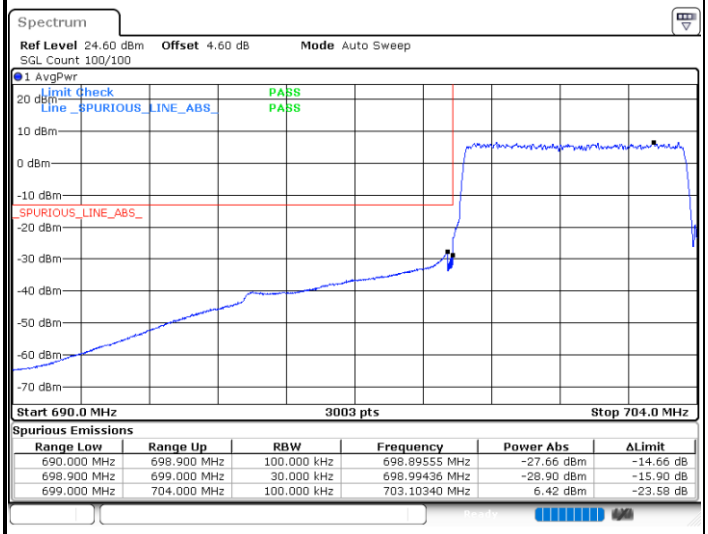


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.64286 MHz	20.09 dBm	-9.91 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-24.93 dBm	-11.93 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.36 dBm	-16.36 dB

Date: 29.JUL.2024 22:08:30

Lowest Band Edge / Full RB

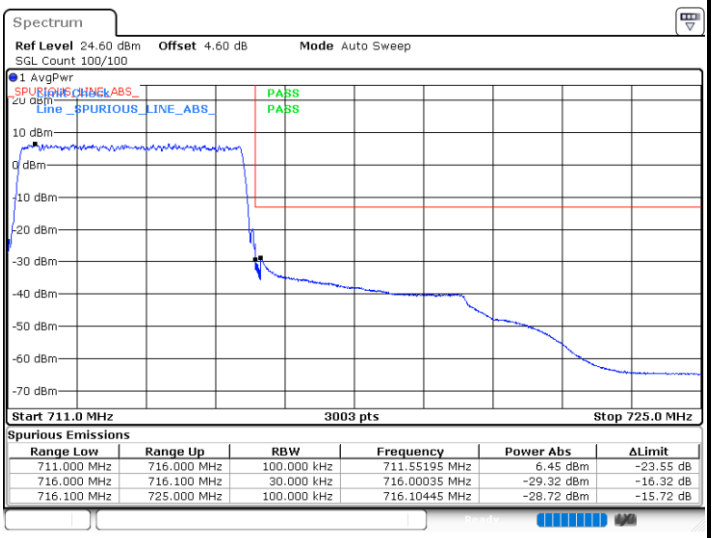


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-27.66 dBm	-14.66 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99436 MHz	-28.90 dBm	-15.90 dB
699.000 MHz	704.000 MHz	100.000 kHz	703.10340 MHz	6.42 dBm	-23.58 dB

Date: 29.JUL.2024 22:04:30

Highest Band Edge / Full RB



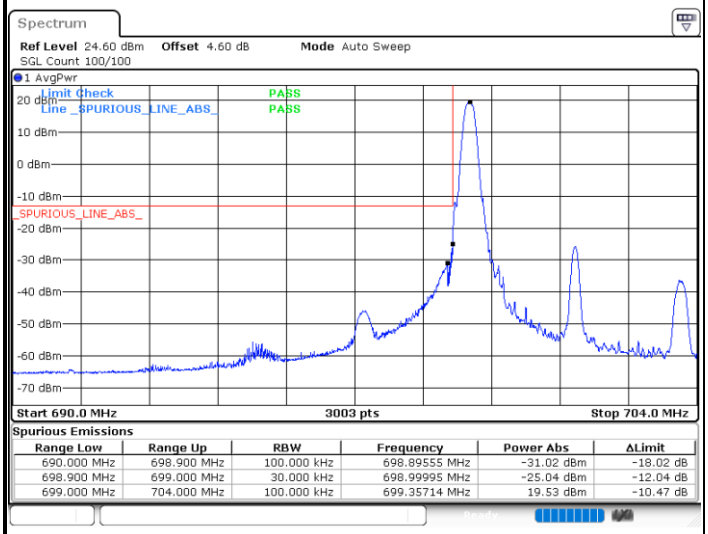
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.55195 MHz	6.45 dBm	-23.55 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00035 MHz	-29.32 dBm	-16.32 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-28.72 dBm	-15.72 dB

Date: 29.JUL.2024 22:18:24

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB

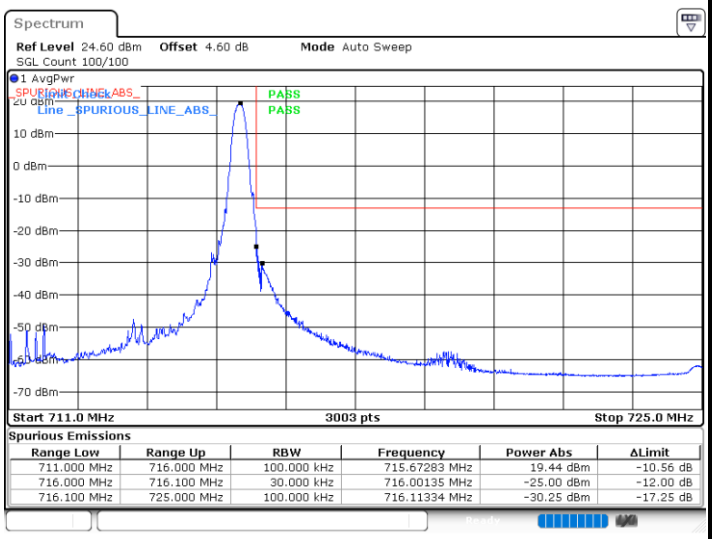


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.02 dBm	-18.02 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99995 MHz	-25.04 dBm	-12.04 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.35714 MHz	19.53 dBm	-10.47 dB

Date: 29.JUL.2024 21:56:50

Highest Band Edge / 1 RB

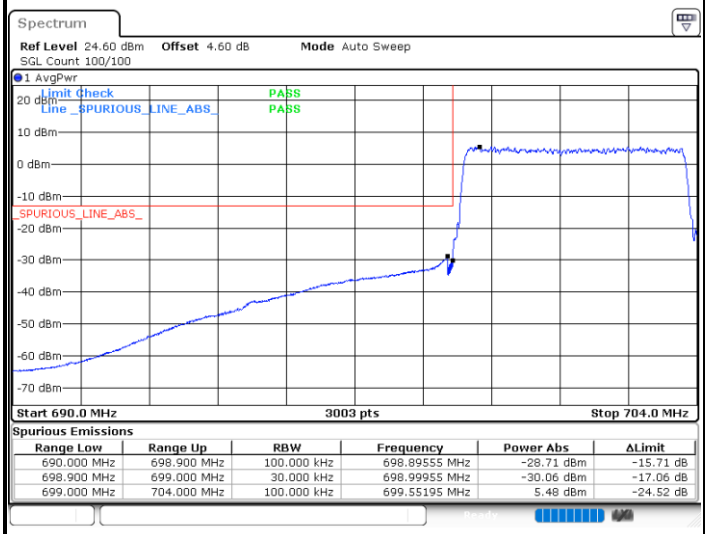


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.67283 MHz	19.44 dBm	-10.56 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00135 MHz	-25.00 dBm	-12.00 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-30.25 dBm	-17.25 dB

Date: 29.JUL.2024 22:09:40

Lowest Band Edge / Full RB

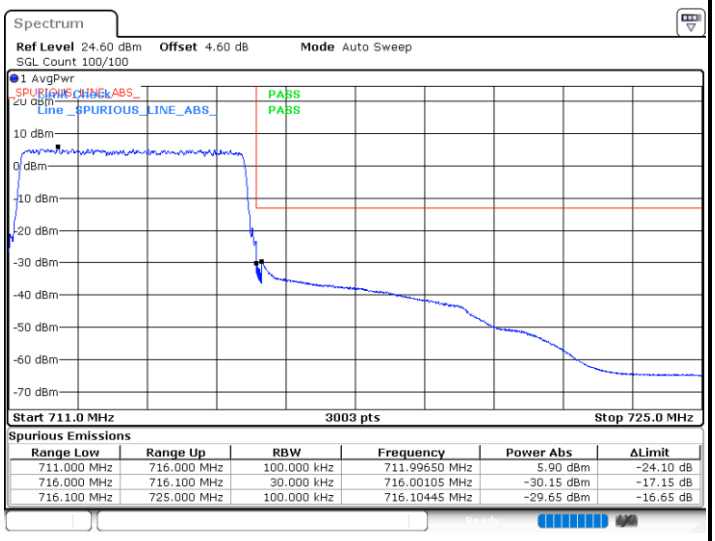


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.71 dBm	-15.71 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99995 MHz	-30.06 dBm	-17.06 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.55195 MHz	5.48 dBm	-24.52 dB

Date: 29.JUL.2024 22:03:20

Highest Band Edge / Full RB



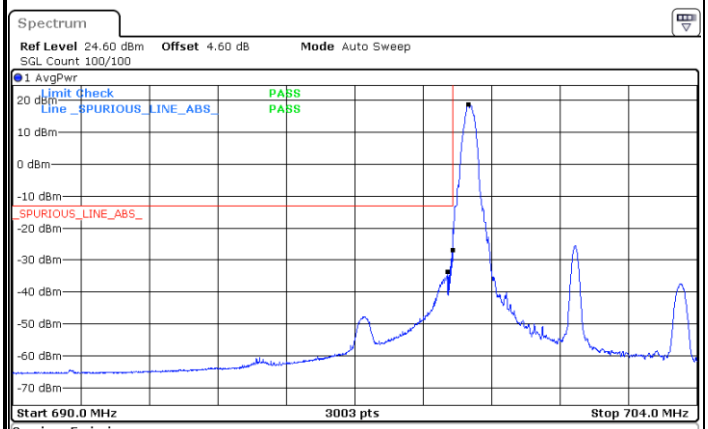
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.99650 MHz	5.90 dBm	-24.10 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00105 MHz	-30.15 dBm	-17.15 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-29.65 dBm	-16.65 dB

Date: 29.JUL.2024 22:17:14

LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB

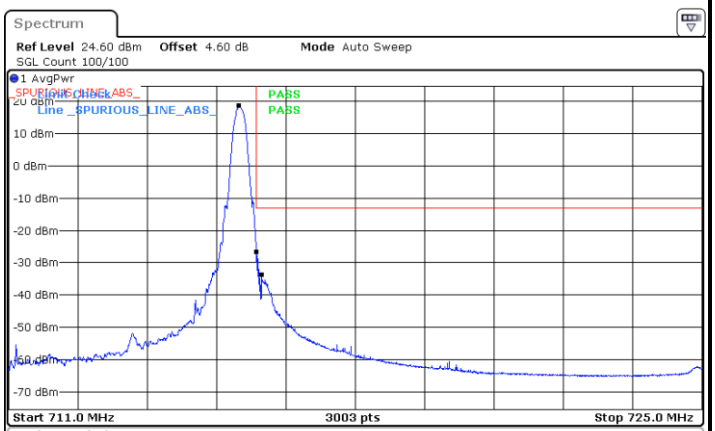


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.64 dBm	-20.64 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99555 MHz	-26.85 dBm	-13.85 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.31718 MHz	18.67 dBm	-11.33 dB

Date: 29.JUL.2024 21:58:00

Highest Band Edge / 1 RB

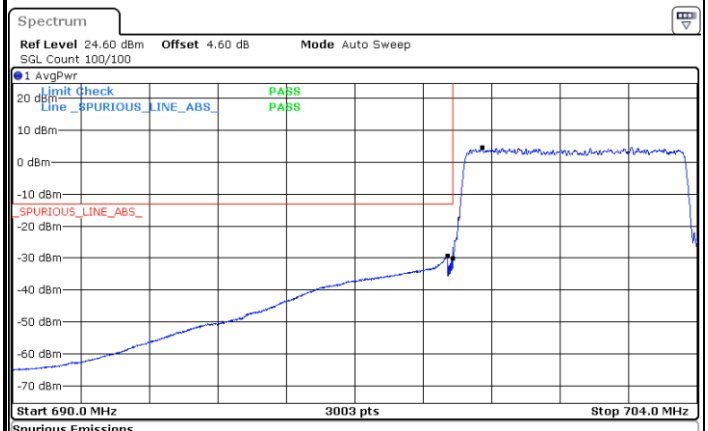


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.64785 MHz	18.56 dBm	-11.44 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00035 MHz	-26.62 dBm	-13.62 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.77 dBm	-20.77 dB

Date: 29.JUL.2024 22:10:50

Lowest Band Edge / Full RB

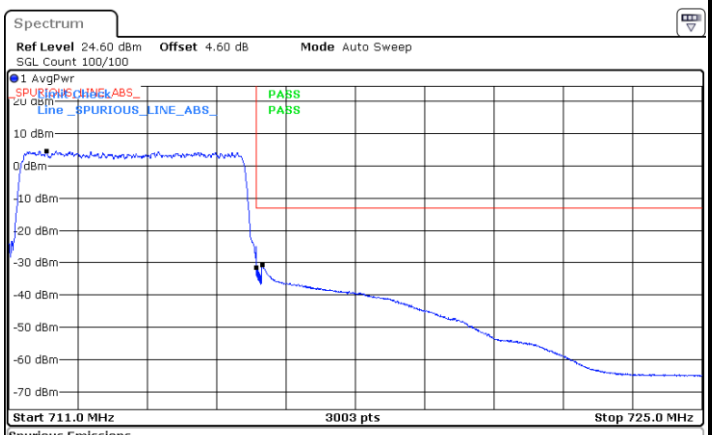


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-29.42 dBm	-16.42 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99376 MHz	-30.14 dBm	-17.14 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.60190 MHz	4.57 dBm	-25.43 dB

Date: 29.JUL.2024 22:02:10

Highest Band Edge / Full RB



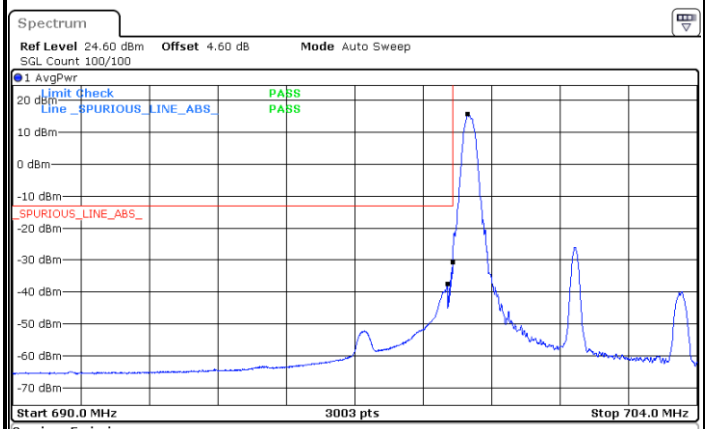
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.76174 MHz	4.60 dBm	-25.40 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00075 MHz	-31.55 dBm	-18.55 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-30.63 dBm	-17.63 dB

Date: 29.JUL.2024 22:16:04

LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB

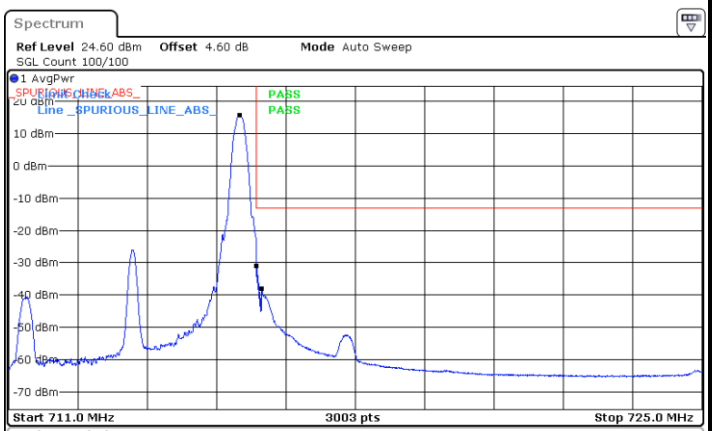


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-37.54 dBm	-24.54 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99965 MHz	-30.66 dBm	-17.66 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.30220 MHz	15.53 dBm	-14.47 dB

Date: 29.JUL.2024 21:59:10

Highest Band Edge / 1 RB

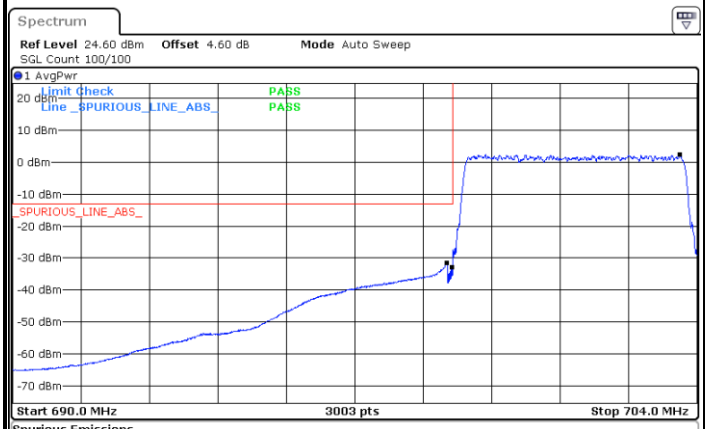


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.66783 MHz	15.69 dBm	-14.31 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00015 MHz	-31.04 dBm	-18.04 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-38.07 dBm	-25.07 dB

Date: 29.JUL.2024 22:12:00

Lowest Band Edge / Full RB

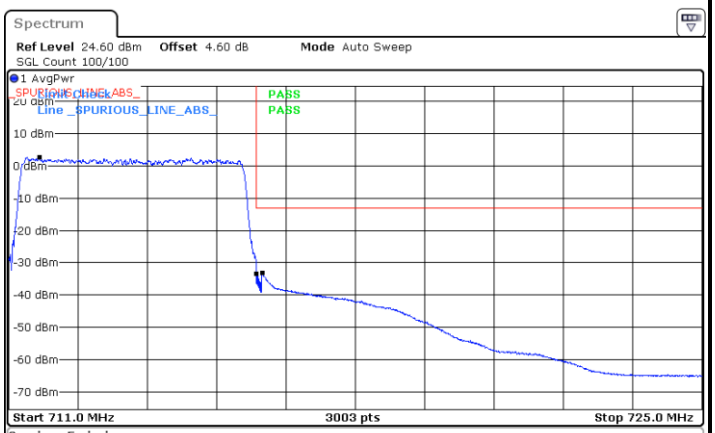


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-31.43 dBm	-18.43 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99276 MHz	-32.83 dBm	-19.83 dB
699.000 MHz	704.000 MHz	100.000 kHz	703.63786 MHz	2.33 dBm	-27.67 dB

Date: 29.JUL.2024 22:00:57

Highest Band Edge / Full RB



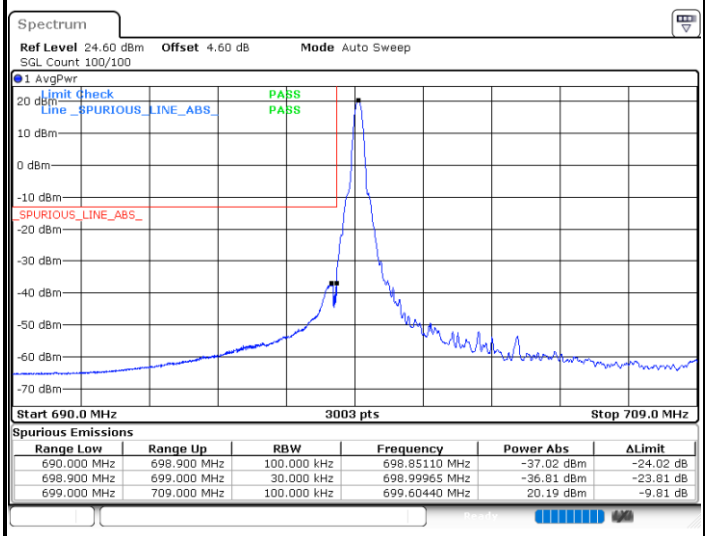
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.61688 MHz	2.58 dBm	-27.42 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00295 MHz	-33.27 dBm	-20.27 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-33.13 dBm	-20.13 dB

Date: 29.JUL.2024 22:14:51

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

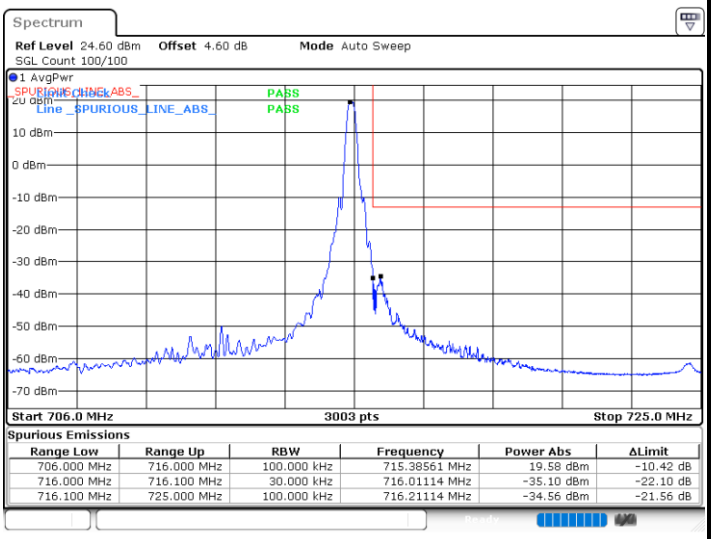


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85110 MHz	-37.02 dBm	-24.02 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99965 MHz	-36.81 dBm	-23.81 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.60440 MHz	20.19 dBm	-9.81 dB

Date: 29.JUL.2024 22:21:00

Highest Band Edge / 1 RB

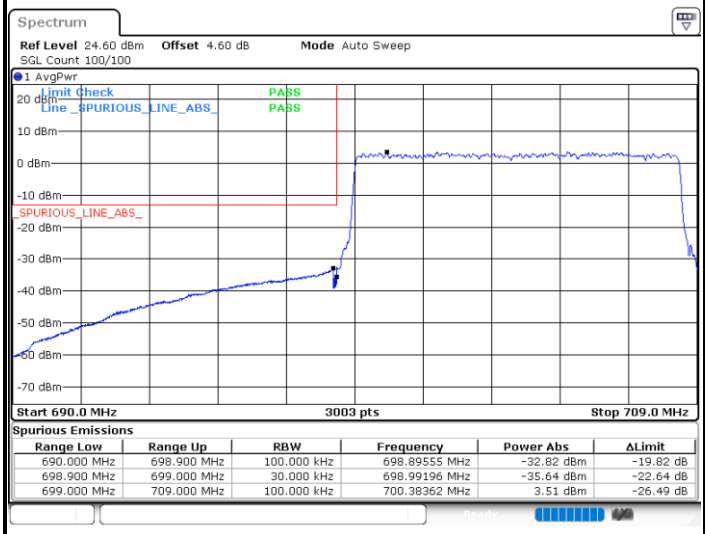


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.38561 MHz	19.58 dBm	-10.42 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01114 MHz	-35.10 dBm	-22.10 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.21114 MHz	-34.56 dBm	-21.56 dB

Date: 29.JUL.2024 22:36:10

Lowest Band Edge / Full RB

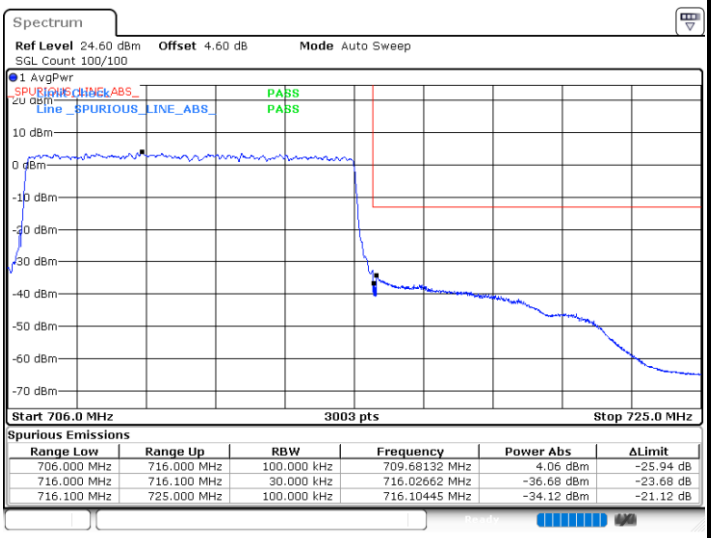


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.82 dBm	-19.82 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99196 MHz	-35.64 dBm	-22.64 dB
699.000 MHz	709.000 MHz	100.000 kHz	700.38362 MHz	3.51 dBm	-26.49 dB

Date: 29.JUL.2024 22:32:20

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	709.68132 MHz	4.06 dBm	-25.94 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.02662 MHz	-36.68 dBm	-23.68 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.12 dBm	-21.12 dB

Date: 29.JUL.2024 22:44:33