

Prüfbericht-Nr.: Test report no.:	CN213YZV (P27-WWAN) 001	Auftrags-Nr.: Order no.:	238517543	Seite 1 von 25 Page 1 of 25
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2021-07-12	
Auftraggeber: Client:	AGUILA CONVERGENCE WORLDWIDE, INC. 46168,1581 S. Perry road,Plainfield,Indiana,USA			
Prüfgegenstand: Test item:	Secure Dongle,OOB Dongle			
Bezeichnung / Typ-Nr.: Identification / Type no.:	NCT8610,NCT9610			
Auftrags-Inhalt: Order content:	FCC Part 27 Test report			
Prüfgrundlage: Test specification:	FCC 47CFR Part 27 Subpart C, F, H, L			
Wareneingangsdatum: Date of sample receipt:	2021-07-07			
Prüfmuster-Nr.: Test sample no.:	A003086990-033			
Prüfzeitraum: Testing period:	2021-08-05 - 2021-09-03			
Ort der Prüfung: Place of testing:	EMC/RF Taipei Testing Site			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: compiled by:			genehmigt von: authorized by:	
Datum: Date:	2021-10-19	Ausstellungsdatum: Issue date:	2021-10-19	
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager	
Sonstiges / Other:	This report evaluated Radiated Spurious Emissions and ERP/EIRP only. The other test items are referred to the module report no.: (NIE) 59675RRF.001 and 59675RRF.002 for the details. The model/product names are electrically identical, the differences are the package, and the color of the case and logo.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

TEST SUMMARY

Report Section	FCC Clause	Test Item	Support Band	Result
5.1.1	2.1046	Conducted Output Power	-	Pass
	27.50(c)(10)	Effective Radiated Power	Band 12 Band 17	Pass
	27.50(b)(10)		Band 13	Pass
	27.50(d)(4)	Effective Isotropically Radiated Power	Band 4 Band 66	Pass
5.1.2	2.1053	Radiated Spurious Emissions	-	Pass
	27.53(h)		Band 4 Band 66	Pass
	27.53(g)		Band 12 Band 17	Pass
	27.53(c)(2)&(f)		Band 13	Pass

Note:

1. The mark "-" means that the standard applied to all the bands.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Contents

HISTORY OF THIS TEST REPORT	4
1. GENERAL REMARKS	5
1.1 COMPLEMENTARY MATERIALS.....	5
1.2 DECISION RULE OF CONFORMITY	5
2. TEST SITES	6
2.1 TEST LABORATORY	6
2.2 TEST FACILITY.....	6
2.3 TRACEABILITY	7
2.4 CALIBRATION	7
2.5 MEASUREMENT UNCERTAINTY	7
3. GENERAL PRODUCT INFORMATION.....	8
3.1 PRODUCT FUNCTION AND INTENDED USE	8
3.2 SYSTEM DETAILS AND RATINGS.....	8
3.3 NOISE GENERATING AND NOISE SUPPRESSING PARTS	10
3.4 SUBMITTED DOCUMENTS.....	10
4. TEST SET-UP AND OPERATION MODES.....	11
4.1 PRINCIPLE OF CONFIGURATION SELECTION	11
4.2 TEST OPERATION AND TEST SOFTWARE.....	11
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	13
4.4 TEST SETUP DIAGRAM	13
5. TEST RESULTS	14
5.1 TRANSMITTER REQUIREMENT & TEST SUITES	14
5.1.1 Conducted Output Power	14
5.1.2 Radiated Spurious Emissions	23

APPENDIX A - TEST RESULT OF RADIATED SPURIOUS EMISSIONS

APPENDIX SP - PHOTOGRAPHS TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

Prüfbericht - Nr.: CN213YZV (P27-WWAN) 001
Test Report No.

Seite 4 von 25
Page 4 of 25

HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN213YZV (P27-WWAN) 001	Original Release	2021-10-19

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Spurious Emissions

Appendix SP - Photographs Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47 CFR Part 2
FCC 47 CFR Part 27
KDB 971168 D01 Power Meas License Digital Systems v03r01
ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 226631
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Secure Dongle, OOB Dongle. It contains a WWAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Secure Dongle, OOB Dongle
Type Identification	NCT8610, NCT9610
FCC ID	2AZE921NCT8610

Technical Specification of EUT

Item	EUT information		
Operating Frequency	Cat-M1	LTE Band 4 (1.4 MHz)	1710.7 ~ 1754.3 MHz
		LTE Band 4 (3 MHz)	1711.5 ~ 1753.5 MHz
		LTE Band 4 (5 MHz)	1712.5 ~ 1752.5 MHz
		LTE Band 4 (10 MHz)	1715.0 ~ 1750.0 MHz
		LTE Band 4 (15 MHz)	1717.5 ~ 1747.5 MHz
		LTE Band 4 (20 MHz)	1720.0 ~ 1745.0 MHz
		LTE Band 12 (1.4 MHz)	699.7 ~ 715.3 MHz
		LTE Band 12 (3 MHz)	700.5 ~ 714.5 MHz
		LTE Band 12 (5 MHz)	701.5 ~ 713.5 MHz
		LTE Band 12 (10 MHz)	704.0 ~ 711.0 MHz
		LTE Band 13 (5 MHz)	779.5 ~ 784.5 MHz
		LTE Band 13 (10 MHz)	782.0 MHz
		LTE Band 66 (1.4 MHz)	1710.7 ~ 1779.3 MHz
		LTE Band 66 (3 MHz)	1711.5 ~ 1778.5 MHz
		LTE Band 66 (5 MHz)	1712.5 ~ 1777.5 MHz
		LTE Band 66 (10 MHz)	1715.0 ~ 1775.0 MHz
		LTE Band 66 (15 MHz)	1717.5 ~ 1772.5 MHz
		LTE Band 66 (20 MHz)	1720.0 ~ 1770.0 MHz
	NB-IoT	LTE Band 4	1710.1 ~ 1754.9 MHz
		LTE Band 12	69.1 ~ 715.9 MHz
		LTE Band 13	777.1 ~ 786.9 MHz
		LTE Band 17	704.1 ~ 715.9 MHz
		LTE Band 66	1710.1 ~ 1779.9 MHz

Modulation	Cat-M1	QPSK, 16QAM
	NB-IoT	BPSK, QPSK
Operation Voltage	3.8 Vdc	
Antenna Typ	PCB Antenna	
Antenna Gain (dBi)	LTE Band 4	2.4
	LTE Band 12	1.3
	LTE Band 13	1.3
	LTE Band 17	1.3
	LTE Band 66	2.4
Accessory Device	Refer to 4.3	

Maximum ERP / EIRP

Item	Band		Value
Maximum ERP/EIRP (dBm)	Cat-M1	LTE Band 4 (1.4 MHz)	25.75
		LTE Band 4 (3 MHz)	25.82
		LTE Band 4 (5 MHz)	25.78
		LTE Band 4 (10 MHz)	25.89
		LTE Band 4 (15 MHz)	25.90
		LTE Band 4 (20 MHz)	25.98
		LTE Band 12 (1.4 MHz)	22.59
		LTE Band 12 (3 MHz)	22.57
		LTE Band 12 (5 MHz)	22.60
		LTE Band 12 (10 MHz)	22.67
		LTE Band 13 (5 MHz)	22.56
		LTE Band 13 (10 MHz)	22.66
		LTE Band 66 (1.4 MHz)	25.62
		LTE Band 66 (3 MHz)	25.64
		LTE Band 66 (5 MHz)	25.85
		LTE Band 66 (10 MHz)	25.71
		LTE Band 66 (15 MHz)	25.71
		LTE Band 66 (20 MHz)	26.01
	NB-IoT	LTE Band 4	25.84
		LTE Band 12	22.41
		LTE Band 13	22.34
		LTE Band 17	22.43
		LTE Band 66	25.73

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: Test samples make a communication with CMW500 which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	QCOM_V1.6
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The samples were used as follows:
A003086990-033

Full test was applied on all test modes, but only worst case was shown.

Effective Radiated Power (ERP) / Effective Isotropically Radiated Power (EIRP)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Band	Channel Bandwidth	Available Channel	Tested Channel	Modulation
Cat-M1	LTE Band 4	1.4 MHz	19957 to 20393	19957, 20175, 20393	QPSK, 16QAM
		3 MHz	19965 to 20385	19965, 20175, 20385	QPSK, 16QAM
		5 MHz	19975 to 20375	19975, 20175, 20375	QPSK, 16QAM
		10 MHz	20000 to 20350	20000, 20175, 20350	QPSK, 16QAM
		15 MHz	20025 to 20325	20025, 20175, 20325	QPSK, 16QAM
		20 MHz	20050 to 20300	20050, 20175, 20300	QPSK, 16QAM
	LTE Band 12	1.4 MHz	23017 to 23173	23017, 23095, 23173	QPSK, 16QAM
		3 MHz	23025 to 23165	23025, 23095, 23165	QPSK, 16QAM
		5 MHz	23035 to 23155	23035, 23095, 23155	QPSK, 16QAM
		10 MHz	23060 to 23130	23060, 23095, 23130	QPSK, 16QAM
	LTE Band 13	5 MHz	23205 to 23255	23205, 23230, 23255	QPSK, 16QAM
		10 MHz	23230	23230	QPSK, 16QAM
	LTE Band 66	1.4 MHz	131979 to 132665	131979, 132322, 132665	QPSK, 16QAM
		3 MHz	131987 to 132657	131987, 132322, 132657	QPSK, 16QAM
		5 MHz	131997 to 132647	131997, 132322, 132647	QPSK, 16QAM
		10 MHz	132022 to 132622	132022, 132322, 132622	QPSK, 16QAM
		15 MHz	132047 to 132597	132047, 132322, 132597	QPSK, 16QAM
		20 MHz	132072 to 132572	132072, 132322, 132572	QPSK, 16QAM

EUT Configure Mode	Band	Available Channel	Tested Channel	Sub-Carrier Bandwidth	Modulation	Ntones
NB-IoT	LTE Band 4	19951 to 20399	19951, 20175, 20399	3.75 kHz	BPSK	1@47
				15 kHz	QPSK	3@3
	LTE Band 12	23011 to 23179	23011, 23095, 23179	3.75 kHz	BPSK	1@47
				15 kHz	QPSK	3@3
	LTE Band 13	23181 to 23279	23181, 23230, 23279	3.75 kHz	BPSK	1@47
				15 kHz	QPSK	3@3
	LTE Band 17	23731 to 23849	23731, 23790, 23849	3.75 kHz	BPSK	1@47
				15 kHz	QPSK	3@3
	LTE Band 66	131973 to 132671	131973, 132322, 132671	3.75 kHz	BPSK	1@47
				15 kHz	QPSK	3@3

Radiated Spurious Emissions

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Band	Channel Bandwidth	Available Channel	Tested Channel	Modulation	Position
Cat-M1	LTE Band 4	20 MHz	20050 to 20300	20050, 20175, 20300	QPSK	Z-plane
	LTE Band 12	10 MHz	23060 to 23130	23060, 23095, 23130	QPSK	Z-plane
	LTE Band 13	10 MHz	23230	23230	QPSK	Z-plane
	LTE Band 66	20 MHz	132072 to 132572	132072, 132322, 132572	QPSK	Z-plane

EUT Configure Mode	Band	Available Channel	Tested Channel	Sub-Carrier Bandwidth	Modulation	Ntones	Position
NB-IoT	LTE Band 4	19951 to 20399	19951, 20175, 20399	3.75 kHz	BPSK	1@47	Z-plane
	LTE Band 12	23011 to 23179	23011, 23095, 23179	15 kHz	QPSK	3@3	Z-plane
	LTE Band 13	23181 to 23279	23181, 23230, 23279	3.75 kHz	BPSK	1@47	Z-plane
	LTE Band 17	23731 to 23849	23731, 23790, 23849	3.75 kHz	BPSK	1@47	Z-plane
	LTE Band 66	131973 to 132671	131973, 132322, 132671	15 kHz	QPSK	3@3	Z-plane

Note: BLE is enabled.

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
ERP/EIRP	21.6-25.8 °C	46.2-66.5 %	Andy Chen
Radiated Spurious Emissions	23.1-25.1 °C	50-60 %	Kay Wu

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

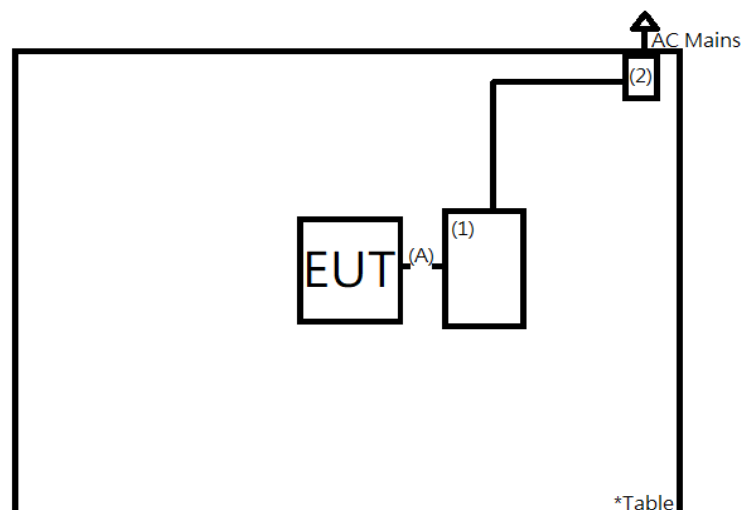
Accessory of EUT

No.	Product	Brand	Model	Description
A	USB Type-C Cable	ACES Electronics Co.,Ltd.	60-6363-860-FA	12 cm shielded cable w/o core

Support Unit

Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
1	Notebook	HP	15-da1064TX	CND911MY2	-	-	-	-
2	Adapter	HP	TPN-LA16	N/A	NO	NO	180	-

4.4 Test Setup Diagram



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Conducted Output Power

Limit

According to §27.50(d)(4): The EIRP must not exceed 1 Watts.
 According to §27.50(c)(10): The ERP must not exceed 3 Watts.
 According to §27.50(b)(10): The ERP must not exceed 3 Watts.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Radio Communication Analyzer	Anritsu	MT8821C	6262044753	2021/1/29	2022/1/28	2021/8/5	2021/9/3

Test Procedures

The EUT was set up for the maximum power with WWAN link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

EIRP = Conducted Power + Antenna Gain

ERP = EIRP – 2.15

Test Result
<Conducted Output Power>

LTE Cat-M1 B4/BW=1.4M					Average Conducted Power (dBm)			LTE Cat-M1 B4/BW=3M					Average Conducted Power (dBm)		
Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					19957/ 1710.7	20175/ 1732.5	20393/ 1754.3						19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1	0	0	23.50	23.12	23.22	23.35	QPSK	1	0	0	23.50	23.08	23.25	23.34
	1	5	0	23.50	23.10	23.19	23.32		1	5	1	23.50	23.14	23.27	23.42
	3	0	0	22.50	22.15	22.31	22.47		3	0	0	23.50	22.24	22.37	22.46
	3	3	0	22.50	22.22	22.33	22.39		3	3	1	23.50	22.25	22.39	22.50
	6	0	0	22.00	21.26	21.30	21.50		6	0	0	21.50	21.32	21.40	21.47
									6	0	1	21.50	21.33	21.42	21.45
16QAM	1	0	0	23.00	22.34	22.48	22.56	16QAM	1	0	0	23.00	22.31	22.36	22.56
	1	4	0	23.00	22.43	22.51	22.55		1	4	1	23.00	22.39	22.52	22.65
	3	0	0	22.00	21.24	21.37	21.52		3	0	0	22.00	21.24	21.37	21.44
	3	2	0	21.50	21.26	21.42	21.43		3	2	1	22.00	21.28	21.44	21.56
	5	0	0	21.50	21.25	21.40	21.46		5	0	0	22.00	21.22	21.32	21.45
									5	0	1	21.50	21.28	21.44	21.41
LTE Cat-M1 B4/BW=5M					Average Conducted Power (dBm)			LTE Cat-M1 B4/BW=10M					Average Conducted Power (dBm)		
Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					19975/ 1712.5	20175/ 1732.5	20375/ 1752.5						20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1	0	0	23.50	23.10	23.22	23.35	QPSK	1	0	0	23.50	23.16	23.27	23.42
	1	0	3	23.50	23.08	23.26	23.31		1	0	3	23.50	23.22	23.33	23.41
	1	5	0	23.50	23.11	23.24	23.34		1	5	4	23.50	23.18	23.31	23.38
	1	5	3	23.50	23.13	23.29	23.38		1	5	7	23.50	23.20	23.49	23.46
	3	0	0	23.50	22.20	22.42	22.45		3	0	0	23.50	23.23	23.38	23.42
	3	3	3	23.50	22.21	22.41	22.47		3	3	7	23.50	23.26	23.43	23.47
	6	0	0	23.50	22.14	22.31	22.57		6	0	0	23.50	22.27	22.34	22.52
	6	0	3	23.50	22.18	22.34	22.51		6	0	7	23.50	22.30	22.35	22.53
16QAM	1	0	0	23.00	22.55	22.54	22.69	16QAM	1	0	0	23.00	22.57	22.44	22.61
	1	0	3	23.00	22.59	22.57	22.66		1	0	3	23.00	22.48	22.52	22.73
	1	4	0	23.00	22.56	22.56	22.67		1	4	4	23.00	22.52	22.68	22.82
	1	4	3	23.00	22.58	22.60	22.71		1	4	7	23.00	22.58	22.71	22.71
	3	0	0	22.50	22.35	22.35	22.40		3	0	0	22.50	22.38	22.46	22.48
	3	2	3	23.00	22.43	22.44	22.57		3	2	7	23.00	22.45	22.62	22.64
	5	0	0	23.00	21.33	21.25	21.48		5	0	0	23.00	22.24	22.38	22.58
	5	0	3	23.00	21.26	21.30	21.52		5	0	7	23.00	22.37	22.50	22.56
LTE Cat-M1 B4/BW=15M					Average Conducted Power (dBm)			LTE Cat-M1 B4/BW=20M					Average Conducted Power (dBm)		
Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					20025/ 1717.5	20175/ 1732.5	20325/ 1747.5						20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1	0	0	23.50	23.18	23.29	23.38	QPSK	1	0	0	24.00	23.42	23.58	23.53
	1	0	3	23.50	23.21	23.31	23.39		1	0	3	24.00	23.41	23.53	23.47
	1	5	8	23.50	23.32	23.38	23.44		1	5	12	24.00	23.31	23.38	23.36
	1	5	11	23.50	23.28	23.37	23.43		1	5	15	24.00	23.33	23.45	23.42
	3	0	0	23.50	23.19	23.28	23.47		3	0	0	24.00	23.27	23.58	23.54
	3	3	11	23.50	23.38	23.43	23.46		3	3	15	24.00	23.36	23.57	23.50
	6	0	0	23.50	23.26	23.36	23.50		6	0	0	24.00	23.21	23.38	23.33
	6	0	11	23.50	23.43	23.41	23.45		6	0	15	24.00	23.37	23.55	23.51
16QAM	1	0	0	23.00	22.37	22.45	22.55	16QAM	1	0	0	23.00	22.43	22.48	22.58
	1	0	3	23.00	22.43	22.57	22.67		1	0	3	23.00	22.41	22.53	22.64
	1	4	8	23.00	22.57	22.67	22.81		1	4	12	23.00	22.51	22.73	22.77
	1	4	11	23.00	22.66	22.76	22.76		1	4	15	23.00	22.54	22.69	22.68
	3	0	0	22.50	22.39	22.37	22.49		3	0	0	23.00	22.34	22.40	22.52
	3	2	11	23.00	22.54	22.68	22.73		3	2	15	23.00	22.44	22.71	22.69
	5	0	0	23.00	22.33	22.41	22.51		5	0	0	23.00	22.30	22.39	22.47
	5	0	11	23.00	22.48	22.53	22.65		5	0	15	23.00	22.47	22.45	22.53

LTE Cat-M1 B12/BW=1.4M				Average Conducted Power (dBm)				LTE Cat-M1 B12/BW=3M				Average Conducted Power (dBm)			
Modula-tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					23017/699.7	23095/707.5	23173/715.3						23025/700.5	23095/707.5	23165/714.5
QPSK	1	0	0	23.50	23.36	23.44	23.33	QPSK	1	0	0	23.50	23.26	23.39	23.28
	1	5	0	23.50	23.37	23.41	23.30		1	5	1	23.50	23.32	23.42	23.34
	3	0	0	23.00	22.54	22.58	22.52		3	0	0	23.00	22.54	22.52	22.41
	3	3	0	22.50	22.48	22.48	22.46		3	3	1	22.50	22.47	22.42	22.37
	6	0	0	22.00	21.43	21.53	21.48		6	0	0	22.00	21.43	21.54	21.39
									6	0	1	22.00	21.42	21.55	21.36
16QAM	1	0	0	23.00	22.55	22.63	22.47	16QAM	1	0	0	23.00	22.39	22.62	22.49
	1	4	0	23.00	22.53	22.70	22.43		1	4	1	23.00	22.46	22.50	22.43
	3	0	0	21.50	21.44	21.50	21.42		3	0	0	22.00	21.57	21.46	21.44
	3	2	0	21.50	21.46	21.43	21.49		3	2	1	22.00	21.49	21.50	21.43
	5	0	0	21.50	21.39	21.40	21.43		5	0	0	21.50	21.18	21.32	21.35
									5	0	1	21.50	21.28	21.47	21.45
LTE Cat-M1 B12/BW=5M				Average Conducted Power (dBm)				LTE Cat-M1 B12/BW=10M				Average Conducted Power (dBm)			
Modula-tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					23035/701.5	23095/707.5	23155/713.5						23060/704	23095/707.5	23130/711
QPSK	1	0	0	23.50	23.31	23.41	23.29	QPSK	1	0	0	24.00	23.34	23.52	23.33
	1	0	3	23.50	23.27	23.42	23.31		1	0	3	24.00	23.38	23.37	23.31
	1	5	0	23.50	23.23	23.37	23.28		1	5	4	24.00	23.39	23.38	23.28
	1	5	3	23.50	23.25	23.34	23.24		1	5	7	24.00	23.35	23.35	23.26
	3	0	0	23.00	22.44	22.59	22.55		3	0	0	23.50	23.34	23.47	23.41
	3	3	3	23.00	22.34	22.43	22.46		3	3	7	23.50	23.42	23.41	23.40
	6	0	0	23.00	22.46	22.47	22.43		6	0	0	22.50	22.48	22.41	22.47
	6	0	3	22.50	22.41	22.41	22.36		6	0	7	22.50	22.47	22.38	22.45
16QAM	1	0	0	23.50	23.19	23.29	23.27	16QAM	1	0	0	23.50	23.24	23.28	23.30
	1	0	3	23.50	23.22	23.30	23.20		1	0	3	23.50	23.27	23.35	23.25
	1	4	0	23.50	23.45	23.37	23.31		1	4	4	23.50	23.41	23.34	23.24
	1	4	3	23.50	23.37	23.34	23.30		1	4	7	23.50	23.30	23.25	23.27
	3	0	0	23.00	22.61	22.60	22.66		3	0	0	23.50	23.27	23.27	23.31
	3	2	3	23.00	22.64	22.65	22.57		3	2	7	23.50	23.26	23.24	23.16
	5	0	0	22.00	21.54	21.57	21.48		5	0	0	23.00	22.55	22.47	22.58
	5	0	3	22.00	21.26	21.53	21.55		5	0	7	23.00	22.58	22.46	22.46

LTE Cat-M1 B13/BW=5M				Average Conducted Power (dBm)				LTE Cat-M1 B13/BW=10M				Average Conducted Power (dBm)			
Modula-tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					23205/779.5	23230/782	23255/784.5							23230/782	
QPSK	1	0	0	23.50	23.28	23.26	23.28	QPSK	1	0	0	24.00		23.51	
	1	0	3	23.50	23.21	23.17	23.26		1	0	3	23.50		23.25	
	1	5	0	23.50	23.30	23.16	23.25		1	5	4	23.50		23.39	
	1	5	3	23.50	23.21	23.15	23.23		1	5	7	23.50		23.41	
	3	0	0	22.50	22.39	22.35	22.34		3	0	0	23.50		23.50	
	3	3	3	22.50	22.37	22.38	22.35		3	3	7	23.50		23.43	
	6	0	0	22.50	22.39	22.39	22.37		6	0	0	22.50		22.42	
	6	0	3	22.50	22.33	22.30	22.47		6	0	7	22.50		22.36	
16QAM	1	0	0	23.50	23.30	23.30	23.27	16QAM	1	0	0	23.50		23.21	
	1	0	3	23.50	23.26	23.29	23.32		1	0	3	23.50		23.12	
	1	4	0	23.50	23.34	23.31	23.38		1	4	4	23.50		23.30	
	1	4	3	23.50	23.29	23.24	23.41		1	4	7	23.50		23.40	
	3	0	0	22.50	22.42	22.44	22.33		3	0	0	23.50		23.16	
	3	2	3	22.50	22.49	22.45	22.41		3	2	7	23.50		23.21	
	5	0	0	21.50	21.24	21.32	21.34		5	0	0	22.50		22.46	
	5	0	3	21.50	21.16	21.23	21.47		5	0	7	22.50		22.48	

LTE Cat-M1 B66/BW=1.4M					Average Conducted Power (dBm)			LTE Cat-M1 B66/BW=3M					Average Conducted Power (dBm)			
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			
					131979/ 1710.7	132322/ 1745	132665/ 1779.3						131987/ 1711.5	132322/ 1745	132657/ 1778.5	
QPSK	1	0	0	23.50	23.10	23.19	23.11	QPSK	1	0	0	23.50	23.05	23.23	23.02	
	1	5	0	23.50	23.13	23.22	23.05		1	5	1	23.50	23.08	23.24	23.01	
	3	0	0	22.50	22.19	22.21	22.16		3	0	0	22.50	22.23	22.29	22.08	
	3	3	0	22.50	22.14	22.22	22.06		3	3	1	22.50	22.17	22.22	22.06	
	6	0	0	21.50	21.18	21.32	21.13		6	0	0	21.50	21.23	21.34	21.18	
									6	0	1	21.50	21.21	21.25	21.16	
16QAM	1	0	0	22.50	22.33	22.39	22.23	16QAM	1	0	0	22.50	22.34	22.43	22.15	
	1	4	0	22.50	22.35	22.36	22.27		1	4	1	22.50	22.28	22.40	22.21	
	3	0	0	21.50	21.13	21.33	21.15		3	0	0	21.50	21.29	21.42	21.16	
	3	2	0	21.50	21.20	21.28	21.19		3	2	1	21.50	21.26	21.34	21.14	
	5	0	0	21.50	21.16	21.26	21.10		5	0	0	21.50	21.16	21.33	21.20	
									5	0	1	21.50	21.24	21.28	21.15	
LTE Cat-M1 B66/BW=5M					Average Conducted Power (dBm)			LTE Cat-M1 B66/BW=10M					Average Conducted Power (dBm)			
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			
					131997/ 1712.5	132322/ 1745	132647/ 1777.5						132022/ 1715	132322/ 1745	132622/ 1775	
QPSK	1	0	0	23.50	23.07	23.20	23.09	QPSK	1	0	0	23.50	23.06	23.17	23.08	
	1	0	3	23.50	23.09	23.18	23.12		1	0	3	23.50	23.09	23.14	23.10	
	1	5	0	23.50	23.08	23.23	23.11		1	5	4	23.50	23.14	23.21	23.12	
	1	5	3	23.50	23.12	23.14	23.10		1	5	7	23.50	23.18	23.22	23.13	
	3	0	0	23.50	22.20	22.24	22.16		3	0	0	23.50	23.26	23.31	23.21	
	3	3	3	23.50	22.19	22.27	22.10		3	3	7	23.50	23.26	23.29	23.15	
	6	0	0	23.50	22.10	22.25	22.15		6	0	0	23.50	22.13	22.21	22.12	
16QAM	1	0	0	22.50	22.41	22.48	22.41	16QAM	1	0	0	22.50	22.35	22.39	22.32	
	1	0	3	22.50	22.46	22.49	22.32		1	0	3	22.50	22.38	22.43	22.36	
	1	4	0	22.50	22.35	22.43	22.41		1	4	4	22.50	22.45	22.42	22.41	
	1	4	3	22.50	22.40	22.45	22.41		1	4	7	22.50	22.47	22.46	22.43	
	3	0	0	22.50	22.27	22.39	22.19		3	0	0	22.50	22.31	22.43	22.39	
	3	2	3	22.50	22.42	23.45	22.32		3	2	7	22.50	22.40	22.42	22.26	
	5	0	0	21.50	21.29	21.40	21.19		5	0	0	22.50	22.18	22.31	22.20	
LTE Cat-M1 B66/BW=15M					Average Conducted Power (dBm)			LTE Cat-M1 B66/BW=20M					Average Conducted Power (dBm)			
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			
					132047/ 1717.5	132322/ 1745	132597/ 1772.5						132072/ 1720	132322/ 1745	132572/ 1770	
QPSK	1	0	0	23.50	23.09	23.19	23.04	QPSK	1	0	0	24.00	23.48	23.61	23.42	
	1	0	3	23.50	23.13	23.16	23.03		1	0	3	24.00	23.41	23.52	23.39	
	1	5	8	23.50	23.14	23.23	23.01		1	5	12	24.00	23.36	23.49	23.33	
	1	5	11	23.50	23.15	23.12	22.99		1	5	15	24.00	23.33	23.41	23.29	
	3	0	0	23.50	23.14	23.21	23.26		3	0	0	24.00	23.44	23.52	23.24	
	3	3	11	23.50	23.30	23.27	23.20		3	3	15	24.00	23.35	23.51	23.20	
	6	0	0	23.50	23.23	23.28	23.18		6	0	0	23.50	23.35	23.44	23.17	
16QAM	1	0	0	22.50	22.40	22.39	22.37	16QAM	1	0	0	23.00	22.33	22.50	22.44	
	1	0	3	22.50	22.45	22.44	22.47		1	0	3	23.00	22.29	22.54	22.39	
	1	4	8	22.50	22.41	22.50	22.39		1	4	12	23.00	22.43	22.56	22.43	
	1	4	11	22.50	22.46	22.43	22.46		1	4	15	23.00	22.48	22.59	22.48	
	3	0	0	22.50	22.30	22.40	22.33		3	0	0	22.50	22.25	22.36	22.32	
	3	2	11	22.50	22.44	22.39	22.29		3	2	15	22.50	22.46	22.48	22.33	
	5	0	0	22.50	22.24	22.26	22.16		5	0	0	22.50	22.15	22.35	22.27	
16QAM	1	0	0	22.50	22.38	22.32	22.27	16QAM	1	0	0	22.50	22.28	22.40	22.23	

NB-IoT B4/BW=3.75kHz		Average Conducted Power (dBm)				NB-IoT B4/BW=15kHz		Average Conducted Power (dBm)			
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			19951/1710.1	20175/1732.5	20399/1754.9				19951/1710.1	20175/1732.5	20399/1754.9
BPSK	1@0	23.50	23.23	23.29	23.24	QPSK	1@0	23.50	23.16	23.44	23.37
	1@47	23.50	23.21	23.24	23.39		1@11	23.50	23.18	23.18	23.34
							3@3	23.50	23.12	23.29	23.13

NB-IoT B12/BW=3.75kHz		Average Conducted Power (dBm)				NB-IoT B12/BW=15kHz		Average Conducted Power (dBm)			
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			23011/699.1	23095/707.5	23179/715.9				23011/699.1	23095/707.5	23179/715.9
BPSK	1@0	23.50	23.16	23.06	23.17	QPSK	1@0	23.50	23.15	23.26	23.08
	1@47	23.50	23.16	23.11	23.05		1@11	23.50	23.13	23.07	23.06
							3@3	23.50	23.10	23.03	22.99

NB-IoT B13/BW=3.75kHz		Average Conducted Power (dBm)				NB-IoT B13/BW=15kHz		Average Conducted Power (dBm)			
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			23181/777.1	23230/782.0	23279/786.9				23181/777.1	23230/782.0	23279/786.9
BPSK	1@0	23.50	23.15	23.01	23.17	QPSK	1@0	23.50	23.02	23.19	22.96
	1@47	23.50	23.04	22.93	23.07		1@11	23.50	23.00	22.94	23.14
							3@3	23.50	23.01	23.13	22.84

NB-IoT B17/BW=3.75kHz		Average Conducted Power (dBm)				NB-IoT B17/BW=15kHz		Average Conducted Power (dBm)			
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			23731/704.1	23790/710.0	23849/715.9				23731/704.1	23790/710.0	23849/715.9
BPSK	1@0	23.50	23.18	23.14	23.14	QPSK	1@0	23.50	23.22	23.28	23.18
	1@47	23.50	23.12	23.15	23.10		1@11	23.50	23.18	23.15	23.16
							3@3	23.50	23.13	23.10	23.01

NB-IoT B66/BW=3.75kHz		Average Conducted Power (dBm)				NB-IoT B66/BW=15kHz		Average Conducted Power (dBm)			
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			131973/1710.1	132322/1745	132671/1779.9				131973/1710.1	132322/1745	132671/1779.9
BPSK	1@0	23.50	23.20	23.30	23.12	QPSK	1@0	23.50	23.18	23.47	23.26
	1@47	23.50	23.16	23.13	23.17		1@11	23.50	23.16	23.25	23.15
							3@3	23.50	23.08	23.28	23.08

<ERP / EIRP>

LTE Cat-M1 B4/BW=1.4M				EIRP (dBm)			LTE Cat-M1 B4/BW=3M				EIRP (dBm)				
Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					19957/ 1710.7	20175/ 1732.5	20393/ 1754.3						19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1	0	0		25.52	25.62	25.75	QPSK	1	0	0		25.48	25.65	25.74
	1	5	0		25.50	25.59	25.72		1	5	1		25.54	25.67	25.82
	3	0	0		24.55	24.71	24.87		3	0	0		24.64	24.77	24.86
	3	3	0		24.62	24.73	24.79		3	3	1		24.65	24.79	24.90
	6	0	0		23.66	23.70	23.90		6	0	0		23.72	23.80	23.87
									6	0	1		23.73	23.82	23.85
16QAM	1	0	0		24.74	24.88	24.96	16QAM	1	0	0		24.71	24.76	24.96
	1	4	0		24.83	24.91	24.95		1	4	1		24.79	24.92	25.05
	3	0	0		23.64	23.77	23.92		3	0	0		23.64	23.77	23.84
	3	2	0		23.66	23.82	23.83		3	2	1		23.68	23.84	23.96
	5	0	0		23.65	23.80	23.86		5	0	0		23.62	23.72	23.85
									5	0	1		23.68	23.84	23.81
LTE Cat-M1 B4/BW=5M				EIRP (dBm)			LTE Cat-M1 B4/BW=10M				EIRP (dBm)				
Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					19975/ 1712.5	20175/ 1732.5	20375/ 1752.5						20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1	0	0		25.50	25.62	25.75	QPSK	1	0	0		25.56	25.67	25.82
	1	0	3		25.48	25.66	25.71		1	0	3		25.62	25.73	25.81
	1	5	0		25.51	25.64	25.74		1	5	4		25.58	25.71	25.78
	1	5	3		25.53	25.69	25.78		1	5	7		25.60	25.89	25.86
	3	0	0		24.60	24.82	24.85		3	0	0		25.63	25.78	25.82
	3	3	3		24.61	24.81	24.87		3	3	7		25.66	25.83	25.87
	6	0	0		24.54	24.71	24.97		6	0	0		24.67	24.74	24.92
	6	0	3		24.58	24.74	24.91		6	0	7		24.70	24.75	24.93
16QAM	1	0	0		24.95	24.94	25.09	16QAM	1	0	0		24.97	24.84	25.01
	1	0	3		24.99	24.97	25.06		1	0	3		24.88	24.92	25.13
	1	4	0		24.96	24.96	25.07		1	4	4		24.92	25.08	25.22
	1	4	3		24.98	25.00	25.11		1	4	7		24.98	25.11	25.11
	3	0	0		24.75	24.75	24.80		3	0	0		24.78	24.86	24.88
	3	2	3		24.83	24.84	24.97		3	2	7		24.85	25.02	25.04
	5	0	0		23.73	23.65	23.88		5	0	0		24.64	24.78	24.98
	5	0	3		23.66	23.70	23.92		5	0	7		24.77	24.90	24.96
LTE Cat-M1 B4/BW=15M				EIRP (dBm)			LTE Cat-M1 B4/BW=20M				EIRP (dBm)				
Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					20025/ 1717.5	20175/ 1732.5	20325/ 1747.5						20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1	0	0		25.58	25.69	25.78	QPSK	1	0	0		25.82	25.98	25.93
	1	0	3		25.61	25.71	25.79		1	0	3		25.81	25.93	25.87
	1	5	8		25.72	25.78	25.84		1	5	12		25.71	25.78	25.76
	1	5	11		25.68	25.77	25.83		1	5	15		25.73	25.85	25.82
	3	0	0		25.59	25.68	25.87		3	0	0		25.67	25.98	25.94
	3	3	11		25.78	25.83	25.86		3	3	15		25.76	25.97	25.90
	6	0	0		25.66	25.76	25.90		6	0	0		25.61	25.78	25.73
	6	0	11		25.83	25.81	25.85		6	0	15		25.77	25.95	25.91
16QAM	1	0	0		24.77	24.85	24.95	16QAM	1	0	0		24.83	24.88	24.98
	1	0	3		24.83	24.97	25.07		1	0	3		24.81	24.93	25.04
	1	4	8		24.97	25.07	25.21		1	4	12		24.91	25.13	25.17
	1	4	11		25.06	25.16	25.16		1	4	15		24.94	25.09	25.08
	3	0	0		24.79	24.77	24.89		3	0	0		24.74	24.80	24.92
	3	2	11		24.94	25.08	25.13		3	2	15		24.84	25.11	25.09
	5	0	0		24.73	24.81	24.91		5	0	0		24.70	24.79	24.87
	5	0	11		24.88	24.93	25.05		5	0	15		24.87	24.85	24.93

LTE Cat-M1 B12/BW=1.4M				ERP (dBm)			LTE Cat-M1 B12/BW=3M				ERP (dBm)				
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					23017/ 699.7	23095/ 707.5	23173/ 715.3						23025/ 700.5	23095/ 707.5	23165/ 714.5
QPSK	1	0	0		22.51	22.59	22.48	QPSK	1	0	0		22.41	22.54	22.43
	1	5	0		22.52	22.56	22.45		1	5	1		22.47	22.57	22.49
	3	0	0		21.69	21.73	21.67		3	0	0		21.69	21.67	21.56
	3	3	0		21.63	21.63	21.61		3	3	1		21.62	21.57	21.52
	6	0	0		20.58	20.68	20.63		6	0	0		20.58	20.69	20.54
									6	0	1		20.57	20.70	20.51
16QAM	1	0	0		21.70	21.78	21.62	16QAM	1	0	0		21.54	21.77	21.64
	1	4	0		21.68	21.85	21.58		1	4	1		21.61	21.65	21.58
	3	0	0		20.59	20.65	20.57		3	0	0		20.72	20.61	20.59
	3	2	0		20.61	20.58	20.64		3	2	1		20.64	20.65	20.58
	5	0	0		20.54	20.55	20.58		5	0	0		20.33	20.47	20.50
									5	0	1		20.43	20.62	20.60
LTE Cat-M1 B12/BW=5M				ERP (dBm)			LTE Cat-M1 B12/BW=10M				ERP (dBm)				
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					23035/ 701.5	23095/ 707.5	23155/ 713.5						23060/ 704	23095/ 707.5	23130/ 711
QPSK	1	0	0		22.46	22.56	22.44	QPSK	1	0	0		22.49	22.67	22.48
	1	0	3		22.42	22.57	22.46		1	0	3		22.53	22.52	22.46
	1	5	0		22.38	22.52	22.43		1	5	4		22.54	22.53	22.43
	1	5	3		22.40	22.49	22.39		1	5	7		22.50	22.50	22.41
	3	0	0		21.59	21.74	21.70		3	0	0		22.49	22.62	22.56
	3	3	3		21.49	21.58	21.61		3	3	7		22.57	22.56	22.55
	6	0	0		21.61	21.62	21.58		6	0	0		21.63	21.56	21.62
	6	0	3		21.56	21.56	21.51		6	0	7		21.62	21.53	21.60
16QAM	1	0	0		22.34	22.44	22.42	16QAM	1	0	0		22.39	22.43	22.45
	1	0	3		22.37	22.45	22.35		1	0	3		22.42	22.50	22.40
	1	4	0		22.60	22.52	22.46		1	4	4		22.56	22.49	22.39
	1	4	3		22.52	22.49	22.45		1	4	7		22.45	22.40	22.42
	3	0	0		21.76	21.75	21.81		3	0	0		22.42	22.42	22.46
	3	2	3		21.79	21.80	21.72		3	2	7		22.41	22.39	22.31
	5	0	0		20.69	20.72	20.63		5	0	0		21.70	21.62	21.73
	5	0	3		20.41	20.68	20.70		5	0	7		21.73	21.61	21.61

LTE Cat-M1 B13/BW=5M				ERP (dBm)				LTE Cat-M1 B13/BW=10M				ERP (dBm)			
Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- -tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					23205/ 779.5	23230/ 782	23255/ 784.5							23230/ 782	
QPSK	1	0	0		22.43	22.41	22.43	QPSK	1	0	0			22.66	
	1	0	3		22.36	22.32	22.41		1	0	3			22.40	
	1	5	0		22.45	22.41	22.40		1	5	4			22.54	
	1	5	3		22.36	22.30	22.38		1	5	7			22.56	
	3	0	0		21.54	21.50	21.49		3	0	0			22.65	
	3	3	3		21.52	21.53	21.50		3	3	7			22.58	
	6	0	0		21.54	21.54	21.52		6	0	0			21.57	
	6	0	3		21.48	21.45	21.62		6	0	7			21.51	
16QAM	1	0	0		22.45	22.45	22.42	16QAM	1	0	0			22.36	
	1	0	3		22.41	22.44	22.47		1	0	3			22.27	
	1	4	0		22.49	22.46	22.53		1	4	4			22.45	
	1	4	3		22.44	22.39	22.56		1	4	7			22.55	
	3	0	0		21.57	21.59	21.48		3	0	0			22.31	
	3	2	3		21.64	21.60	21.56		3	2	7			22.36	
	5	0	0		20.39	20.47	20.49		5	0	0			21.61	
	5	0	3		20.31	20.38	20.62		5	0	7			21.63	

LTE Cat-M1 B66/BW=1.4M				EIRP (dBm)			LTE Cat-M1 B66/BW=3M				EIRP (dBm)				
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					131979/ 1710.7	132322/ 1745	132665/ 1779.3						131987/ 1711.5	132322/ 1745	132657/ 1778.5
QPSK	1	0	0		25.50	25.59	25.51	QPSK	1	0	0		25.45	25.63	25.42
	1	5	0		25.53	25.62	25.45		1	5	1		25.48	25.64	25.41
	3	0	0		24.59	24.61	24.56		3	0	0		24.63	24.69	24.48
	3	3	0		24.54	24.62	24.46		3	3	1		24.57	24.62	24.46
	6	0	0		23.58	23.72	23.53		6	0	0		23.63	23.74	23.58
										6	0		1	23.61	23.65
16QAM	1	0	0		24.73	24.79	24.63	16QAM	1	0	0		24.74	24.83	24.55
	1	4	0		24.75	24.76	24.67		1	4	1		24.68	24.80	24.61
	3	0	0		23.53	23.73	23.55		3	0	0		23.69	23.82	23.56
	3	2	0		23.60	23.68	23.59		3	2	1		23.66	23.74	23.54
	5	0	0		23.56	23.66	23.50		5	0	0		23.56	23.73	23.60
										5	0		1	23.64	23.68
LTE Cat-M1 B66/BW=5M				EIRP (dBm)			LTE Cat-M1 B66/BW=10M				EIRP (dBm)				
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					131997/ 1712.5	132322/ 1745	132647/ 1777.5						132022/ 1715	132322/ 1745	132622/ 1775
QPSK	1	0	0		25.47	25.60	25.49	QPSK	1	0	0		25.46	25.57	25.48
	1	0	3		25.49	25.58	25.52		1	0	3		25.49	25.54	25.50
	1	5	0		25.48	25.63	25.51		1	5	4		25.54	25.61	25.52
	1	5	3		25.52	25.54	25.50		1	5	7		25.58	25.62	25.53
	3	0	0		24.60	24.64	24.56		3	0	0		25.66	25.71	25.61
	3	3	3		24.59	24.67	24.50		3	3	7		25.66	25.69	25.55
	6	0	0		24.50	24.65	24.55		6	0	0		24.53	24.61	24.52
	6	0	3		24.57	24.72	24.52		6	0	7		24.60	24.63	24.55
16QAM	1	0	0		24.81	24.88	24.81	16QAM	1	0	0		24.75	24.79	24.72
	1	0	3		24.86	24.89	24.72		1	0	3		24.78	24.83	24.76
	1	4	0		24.75	24.83	24.81		1	4	4		24.85	24.82	24.81
	1	4	3		24.80	24.85	24.81		1	4	7		24.87	24.86	24.83
	3	0	0		24.67	24.79	24.59		3	0	0		24.71	24.83	24.79
	3	2	3		24.82	25.85	24.72		3	2	7		24.80	24.82	24.66
	5	0	0		23.69	23.80	23.59		5	0	0		24.58	24.71	24.60
	5	0	3		23.72	23.76	23.66		5	0	7		24.64	24.66	24.58
LTE Cat-M1 B66/BW=15M				EIRP (dBm)			LTE Cat-M1 B66/BW=20M				EIRP (dBm)				
Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)			Modula- tion	RB Size	RB Offset	NB Index	Max. Tune-up	Channel/Frequency(MHz)		
					132047/ 1717.5	132322/ 1745	132597/ 1772.5						132072/ 1720	132322/ 1745	132572/ 1770
QPSK	1	0	0		25.49	25.59	25.44	QPSK	1	0	0		25.88	26.01	25.82
	1	0	3		25.53	25.56	25.43		1	0	3		25.81	25.92	25.79
	1	5	8		25.54	25.63	25.41		1	5	12		25.76	25.89	25.73
	1	5	11		25.55	25.52	25.39		1	5	15		25.73	25.81	25.69
	3	0	0		25.54	25.61	25.66		3	0	0		25.84	25.92	25.64
	3	3	11		25.70	25.67	25.60		3	3	15		25.75	25.91	25.60
	6	0	0		25.63	25.68	25.58		6	0	0		25.75	25.84	25.57
	6	0	11		25.70	25.71	25.64		6	0	15		25.85	25.89	25.59
16QAM	1	0	0		24.80	24.79	24.77	16QAM	1	0	0		24.73	24.90	24.84
	1	0	3		24.85	24.84	24.87		1	0	3		24.69	24.94	24.79
	1	4	8		24.81	24.90	24.79		1	4	12		24.83	24.96	24.83
	1	4	11		24.86	24.83	24.86		1	4	15		24.88	24.99	24.88
	3	0	0		24.70	24.80	24.73		3	0	0		24.65	24.76	24.72
	3	2	11		24.84	24.79	24.69		3	2	15		24.86	24.88	24.73
	5	0	0		24.64	24.66	24.56		5	0	0		24.55	24.75	24.67
	5	0	11		24.78	24.72	24.67		5	0	15		24.68	24.80	24.63

NB-IoT B4/BW=3.75kHz			EIRP (dBm)			NB-IoT B4/BW=15kHz			EIRP (dBm)		
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			19951/1710.1	20175/1732.5	20399/1754.9				19951/1710.1	20175/1732.5	20399/1754.9
BPSK	1@0		25.63	25.69	25.64	QPSK	1@0		25.56	25.84	25.77
	1@47		25.61	25.64	25.79		1@11		25.58	25.58	25.74
							3@3		25.52	25.69	25.53

NB-IoT B12/BW=3.75kHz			ERP (dBm)			NB-IoT B12/BW=15kHz			ERP (dBm)		
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			23011/699.1	23095/707.5	23179/715.9				23011/699.1	23095/707.5	23179/715.9
BPSK	1@0		22.31	22.21	22.32	QPSK	1@0		22.30	22.41	22.23
	1@47		22.31	22.26	22.20		1@11		22.28	22.22	22.21
							3@3		22.25	22.18	22.14

NB-IoT B13/BW=3.75kHz			ERP (dBm)			NB-IoT B13/BW=15kHz			ERP (dBm)		
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			23181/777.1	23230/782.0	23279/786.9				23181/777.1	23230/782.0	23279/786.9
BPSK	1@0		22.30	22.16	22.32	QPSK	1@0		22.17	22.34	22.11
	1@47		22.19	22.08	22.22		1@11		22.15	22.09	22.29
							3@3		22.16	22.28	21.99

NB-IoT B17/BW=3.75kHz			ERP (dBm)			NB-IoT B17/BW=15kHz			ERP (dBm)		
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			23731/704.1	23790/710.0	23849/715.9				23731/704.1	23790/710.0	23849/715.9
BPSK	1@0		22.33	22.29	22.29	QPSK	1@0		22.37	22.43	22.33
	1@47		22.27	22.30	22.25		1@11		22.33	22.30	22.31
							3@3		22.28	22.25	22.16

NB-IoT B66/BW=3.75kHz			EIRP (dBm)			NB-IoT B66/BW=15kHz			EIRP (dBm)		
Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)			Modulation	Ntones	Max. Tune-up	Channel/Frequency(MHz)		
			131973/1710.1	132322/1745	132671/1779.9				131973/1710.1	132322/1745	132671/1779.9
BPSK	1@0		25.60	25.70	25.52	QPSK	1@0		25.58	25.73	25.66
	1@47		25.56	25.53	25.57		1@11		25.56	25.65	25.55
							3@3		25.48	25.68	25.48

5.1.2 Radiated Spurious Emissions

Limit

§27.53(h), §27.53(g): The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

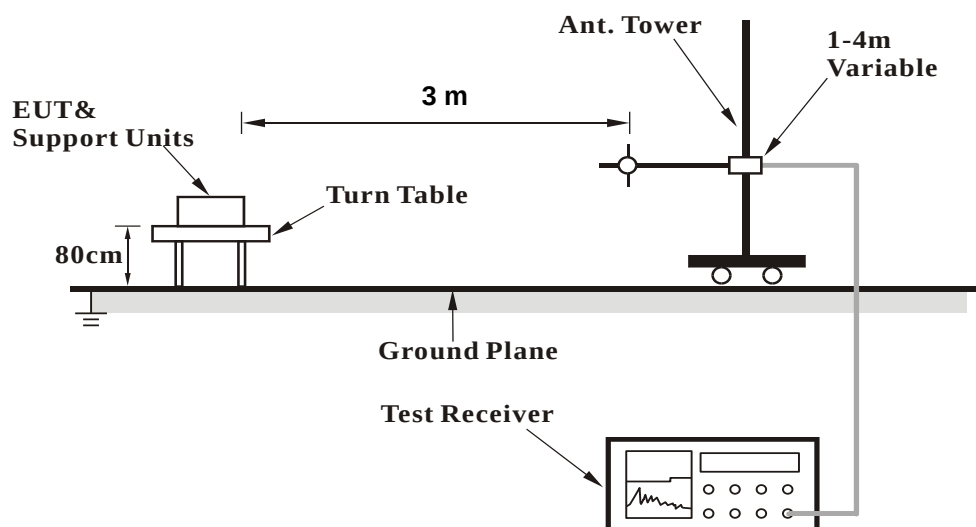
§27.53(c)(2)&(f): The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

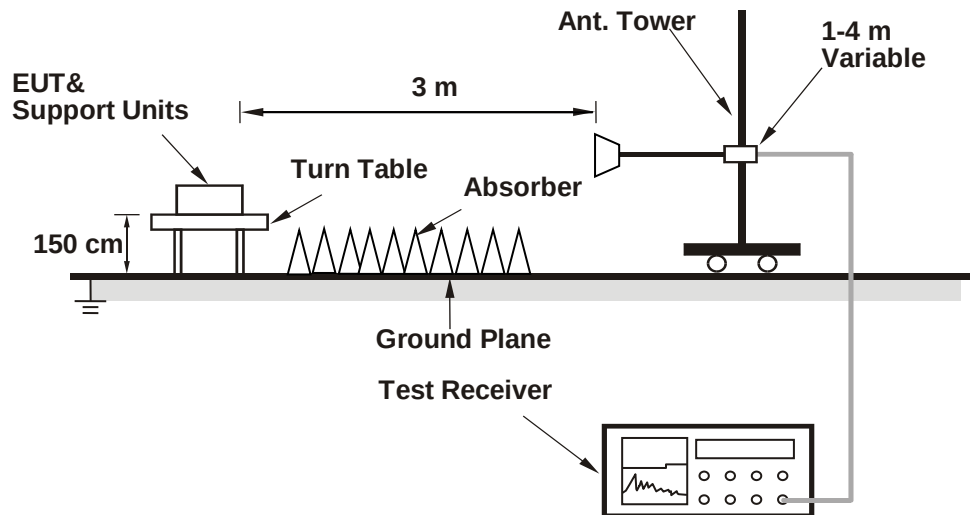
For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below or equal to 1 GHz>



<Radiated Emissions above 1 GHz>


For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101508	2021/3/16	2022/3/15
Receiver	R&S	ESR7	102109	2021/3/16	2022/3/15
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2021/2/18	2022/2/17
Horn Antenna	ETS-Lindgren	3117	00218930	2020/12/1	2021/11/30
LF-AMP	Agilent	8447D	2944A10772	2021/2/18	2022/2/17
HF-AMP + AC source	EMCI	EMC051845SE	980633	2021/2/9	2022/2/8
HF-AMP + AC source	EMCI	EMC184045SE	980657	2021/2/1	2022/1/31
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2021/4/8	2022/4/7
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2021/4/16	2022/4/15
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2021/4/16	2022/4/15
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2021/4/16	2022/4/15
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2021/1/15	2022/1/14

Test Procedures

- a. Substitution method is used for E.I.R.P. measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal to 1 GHz) and/or 1.5m (above 1 GHz) height of turn table, rotated the table around horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the turn table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. $E.R.P. \text{ can be calculated from E.I.R.P. by subtracting the gain of dipole, } E.R.P. = E.I.R.P - 2.15 \text{ dB}.$

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. Testing was carried out within frequency range 30 MHz to the tenth harmonic.
3. All modes of operation were investigated and the worst-case emissions are reported.
4. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

Test Results

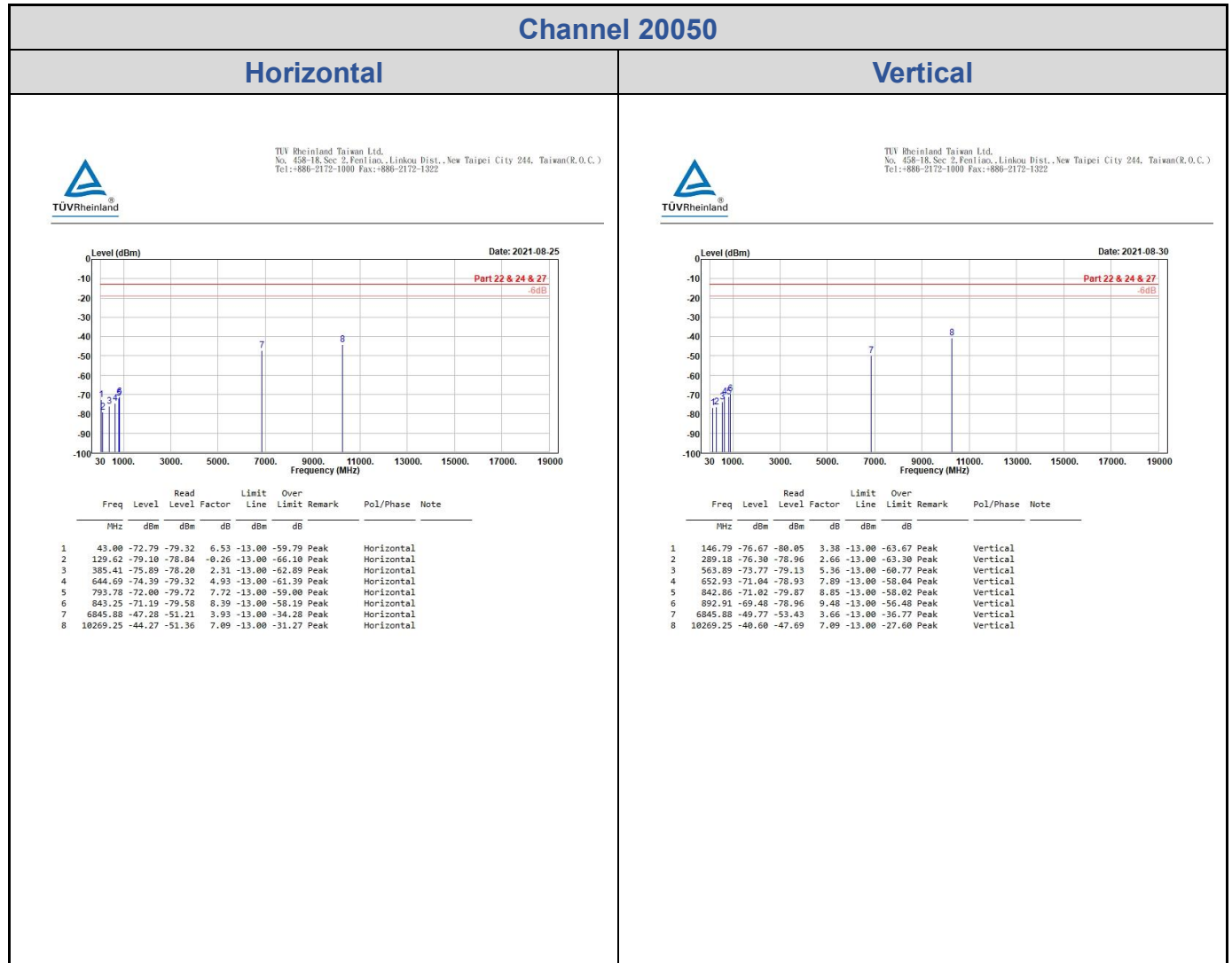
Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions

Link Mode, 30MHz ~ 10th

<Cat-M1>

LTE Band 4

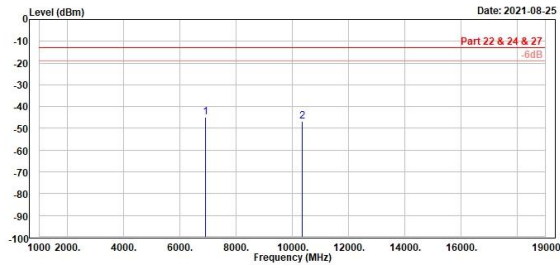


Channel 20175

Horizontal



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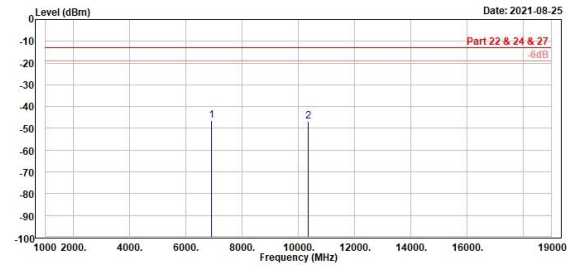


	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	6896.88	-44.83	-48.84	4.01	-13.00	-31.83	Peak	Horizontal	
2	10343.63	-46.76	-54.09	7.33	-13.00	-33.76	Peak	Horizontal	

Vertical



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	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	6896.88	-46.45	-50.22	3.77	-13.00	-33.45	Peak	Vertical	
2	10343.63	-46.76	-54.05	7.29	-13.00	-33.76	Peak	Vertical	

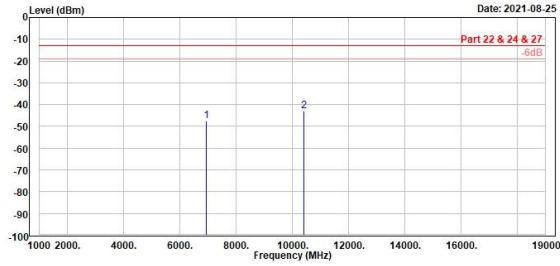
Channel 20300

Horizontal

Vertical



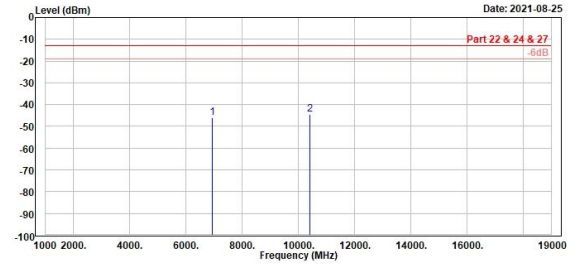
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
		dBm	Factor	dB	dB			
1	6945.75	-47.37	-51.46	4.09	-13.00	-34.37 Peak	Horizontal	
2	10418.00	-43.01	-50.56	7.55	-13.00	-30.01 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
		dBm	Factor	dB	dB			
1	6945.75	-46.10	-49.96	3.86	-13.00	-33.10 Peak	Vertical	
2	10418.00	-44.57	-52.06	7.49	-13.00	-31.57 Peak	Vertical	

LTE Band 12

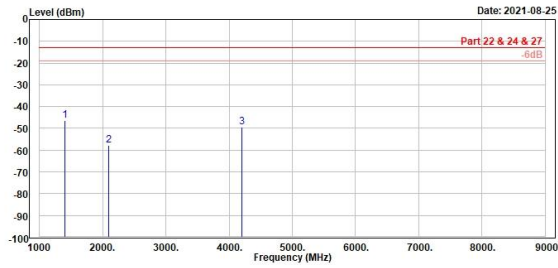
Channel 23060

Horizontal

Vertical



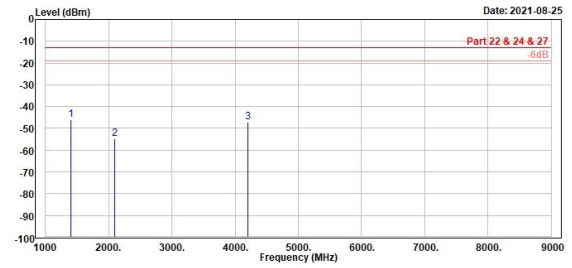
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dB	dB	dB			
1	1400.00	-46.48	-34.35	-12.13	-13.00	-33.48 Peak	Horizontal	
2	2099.00	-57.94	-49.52	-8.42	-13.00	-44.94 Peak	Horizontal	
3	4198.00	-49.36	-47.29	-2.07	-13.00	-36.36 Peak	Horizontal	



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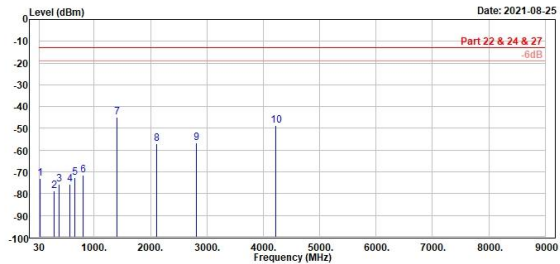
	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dB	dB	dB			
1	1400.00	-46.00	-35.23	-10.77	-13.00	-33.00 Peak	Vertical	
2	2099.00	-54.76	-48.00	-6.76	-13.00	-41.76 Peak	Vertical	
3	4199.00	-46.99	-45.04	-1.95	-13.00	-33.99 Peak	Vertical	

Channel 23095

Horizontal



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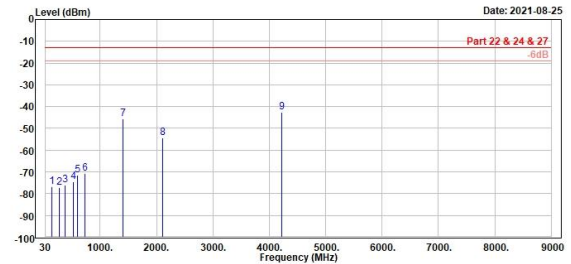


	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level Factor	Line	Limit	dB		
1	37.18	-73.03	-80.03	7.00	-13.00	-60.03	Peak	Horizontal
2	289.18	-78.80	-77.54	-1.26	-13.00	-65.80	Peak	Horizontal
3	385.60	-75.61	-77.93	2.32	-13.00	-62.61	Peak	Horizontal
4	571.45	-75.53	-79.22	3.69	-13.00	-62.53	Peak	Horizontal
5	652.84	-72.70	-77.74	5.04	-13.00	-59.70	Peak	Horizontal
6	804.45	-71.40	-79.26	7.86	-13.00	-58.40	Peak	Horizontal
7	1406.00	-44.99	-32.88	-12.11	-13.00	-31.99	Peak	Horizontal
8	2110.00	-56.87	-48.50	-8.37	-13.00	-43.87	Peak	Horizontal
9	2813.00	-56.79	-51.00	-5.79	-13.00	-43.79	Peak	Horizontal
10	4219.00	-48.50	-46.48	-2.02	-13.00	-35.50	Peak	Horizontal

Vertical



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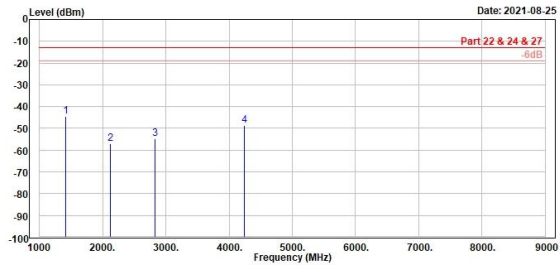
	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level Factor	Line	Limit	dB		
1	148.44	-76.72	-80.28	3.56	-13.00	-63.72	Peak	Vertical
2	269.78	-77.18	-80.02	2.84	-13.00	-64.18	Peak	Vertical
3	385.60	-76.03	-78.60	2.57	-13.00	-63.03	Peak	Vertical
4	518.69	-74.68	-78.68	4.00	-13.00	-61.68	Peak	Vertical
5	602.01	-71.57	-78.68	7.11	-13.00	-58.57	Peak	Vertical
6	728.01	-70.57	-78.49	7.92	-13.00	-57.57	Peak	Vertical
7	1406.00	-45.59	-34.04	-10.75	-13.00	-32.59	Peak	Vertical
8	2110.00	-54.47	-47.76	-6.71	-13.00	-41.47	Peak	Vertical
9	4219.00	-42.65	-40.74	-1.91	-13.00	-29.65	Peak	Vertical

Channel 23130

Horizontal



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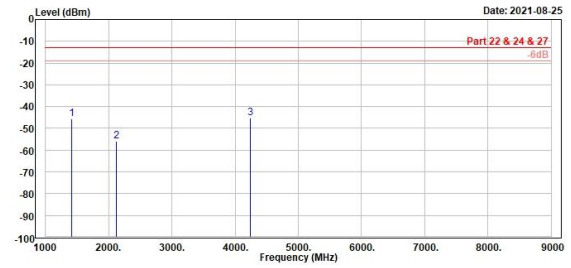


	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	dBm	dB			
1	1414.00	-44.40	-32.32	-12.08	-13.00	-31.40	Peak	Horizontal		
2	2120.00	-56.95	-48.62	-8.33	-13.00	-43.95	Peak	Horizontal		
3	2827.00	-54.84	-49.08	-5.76	-13.00	-41.84	Peak	Horizontal		
4	4240.00	-48.84	-46.86	-1.98	-13.00	-35.84	Peak	Horizontal		

Vertical



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	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	dBm	dB			
1	1414.00	-45.80	-35.07	-10.73	-13.00	-32.80	Peak	Vertical		
2	2120.00	-55.93	-49.25	-6.68	-13.00	-42.93	Peak	Vertical		
3	4241.00	-45.12	-43.25	-1.87	-13.00	-32.12	Peak	Vertical		

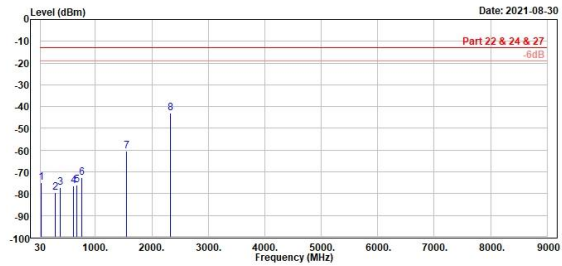
LTE Band 13

Channel 23230

Horizontal



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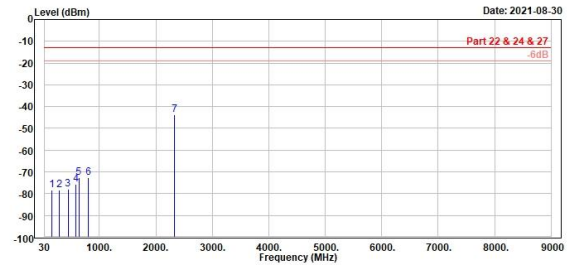


	Freq	Level	Read Level Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB		
1	35.04	-74.88	-79.96	5.08	-13.00	-61.88	Peak	Horizontal
2	288.99	-79.65	-76.24	-3.41	-13.00	-66.65	Peak	Horizontal
3	385.51	-77.27	-77.44	0.17	-13.00	-64.27	Peak	Horizontal
4	615.40	-76.60	-78.82	2.22	-13.00	-63.60	Peak	Horizontal
5	671.46	-75.92	-78.89	2.97	-13.00	-62.92	Peak	Horizontal
6	766.72	-72.65	-77.94	5.29	-13.00	-59.65	Peak	Horizontal
7	1555.00	-60.55	-49.12	-11.43	-13.00	-47.55	Peak	Horizontal
8	2333.00	-42.00	-35.34	-7.46	-13.00	-29.80	Peak	Horizontal

Vertical



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	Freq	Level	Read Level Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB		
1	156.88	-78.50	-79.99	1.49	-13.00	-65.50	Peak	Vertical
2	289.09	-78.20	-78.71	0.51	-13.00	-65.20	Peak	Vertical
3	444.97	-77.88	-78.87	0.99	-13.00	-64.88	Peak	Vertical
4	580.18	-75.85	-79.83	3.98	-13.00	-62.85	Peak	Vertical
5	635.67	-72.66	-78.19	5.53	-13.00	-59.66	Peak	Vertical
6	801.64	-72.79	-78.76	5.97	-13.00	-59.79	Peak	Vertical
7	2333.00	-43.72	-37.83	-5.89	-13.00	-30.72	Peak	Vertical

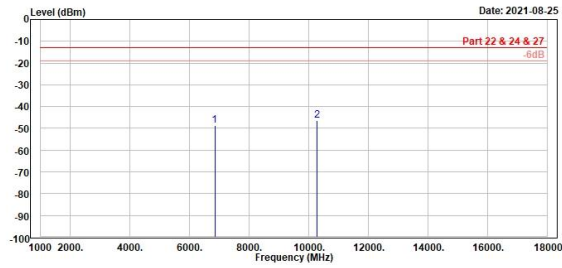
LTE Band 66

Channel 132072

Horizontal



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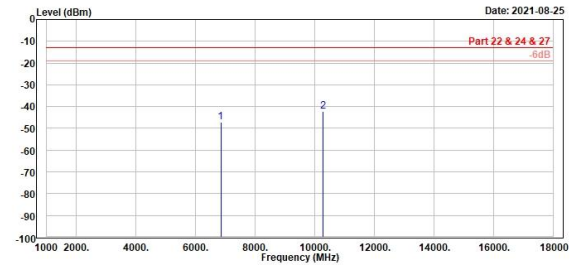


Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB			
1	6845.88	-48.72	-52.65	3.93	-13.00	-35.72 Peak	Horizontal	
2	10269.25	-46.27	-53.36	7.09	-13.00	-33.27 Peak	Horizontal	

Vertical



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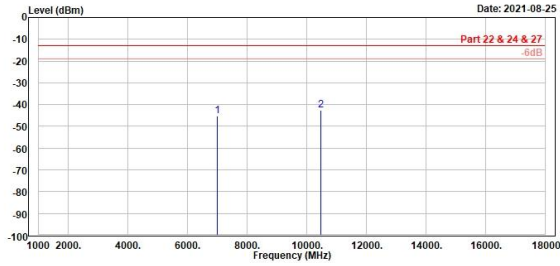
Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB			
1	6845.88	-47.02	-50.68	3.66	-13.00	-34.02 Peak	Vertical	
2	10269.25	-42.12	-49.21	7.09	-13.00	-29.12 Peak	Vertical	

Channel 132322

Horizontal



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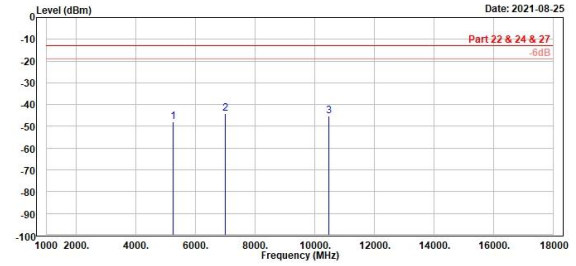


Freq	Level	Read	Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dB	dBm	dB				
1	6986.13	-45.28	-49.43	4.15	-13.00	-32.28	Peak		Horizontal	
2	10477.50	-42.63	-50.37	7.74	-13.00	-29.63	Peak		Horizontal	

Vertical



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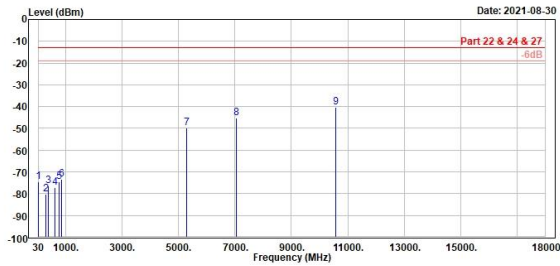
Freq	Level	Read	Level	Factor	Limit	Over	Limit	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dB	dBm	dB				
1	5239.38	-48.06	-50.15	2.09	-13.00	-35.06	Peak		Vertical	
2	6986.13	-44.00	-47.94	3.94	-13.00	-31.00	Peak		Vertical	
3	10477.50	-45.16	-52.01	7.65	-13.00	-32.16	Peak		Vertical	

Channel 132572

Horizontal



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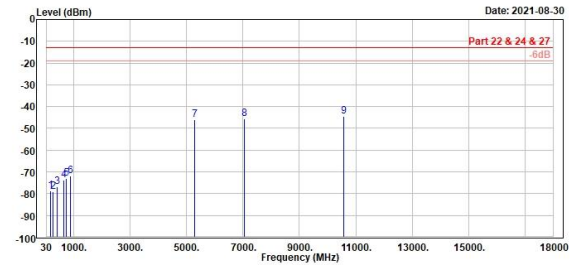


	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dB	dB	dB			
1	36.31	-74.45	-79.39	4.94	-13.00	-61.45 Peak	Horizontal	
2	289.09	-80.41	-77.00	-3.41	-13.00	-67.41 Peak	Horizontal	
3	385.60	-76.25	-76.42	0.17	-13.00	-63.25 Peak	Horizontal	
4	597.64	-77.09	-78.99	1.90	-13.00	-64.09 Peak	Horizontal	
5	760.41	-74.61	-79.84	5.23	-13.00	-61.61 Peak	Horizontal	
6	846.45	-73.26	-79.53	6.27	-13.00	-60.26 Peak	Horizontal	
7	5204.00	-49.71	-52.14	2.43	-13.00	-36.71 Peak	Horizontal	
8	7045.63	-45.12	-49.28	4.16	-13.00	-32.12 Peak	Horizontal	
9	10568.88	-40.26	-48.19	7.93	-13.00	-27.26 Peak	Horizontal	

Vertical



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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dB	dB	dB			
1	163.76	-78.00	-79.98	1.18	-13.00	-65.80 Peak	Vertical	
2	262.02	-79.11	-79.88	0.77	-13.00	-66.11 Peak	Vertical	
3	417.71	-76.71	-77.42	0.71	-13.00	-63.71 Peak	Vertical	
4	637.32	-73.83	-79.39	5.56	-13.00	-60.83 Peak	Vertical	
5	728.98	-72.95	-78.73	5.78	-13.00	-59.95 Peak	Vertical	
6	873.80	-72.00	-79.10	7.10	-13.00	-59.00 Peak	Vertical	
7	5204.00	-46.04	-48.20	2.16	-13.00	-33.04 Peak	Vertical	
8	7045.63	-45.50	-49.46	3.96	-13.00	-32.50 Peak	Vertical	
9	10568.88	-44.51	-52.34	7.83	-13.00	-31.51 Peak	Vertical	

<NB-IoT>

LTE Band 4

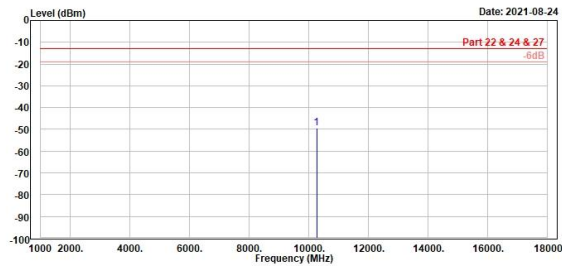
Channel 19951

Horizontal

Vertical



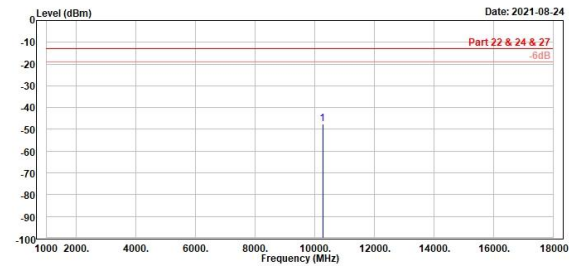
TÜV Rheinland Taiwan Ltd.
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Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	Factor	dB	dB	dB	cm	deg			
1	10265.00	-49.59	-56.68	7.09	-13.00	-36.59	---	---	Peak	Horizontal



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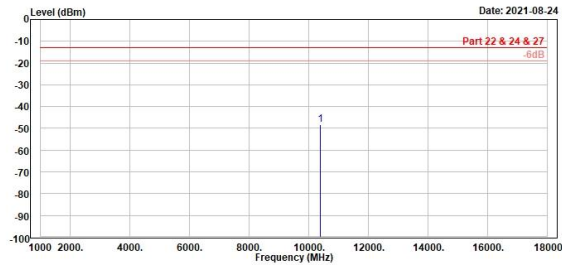
Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	Factor	dB	dB	dB	cm	deg			
1	10265.00	-47.57	-54.65	7.08	-13.00	-34.57	---	---	Peak	Vertical

Channel 20175

Horizontal



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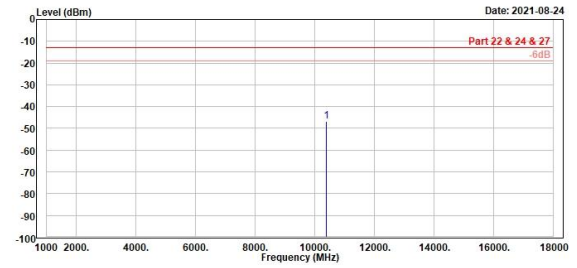


	Freq	Level	Read Level Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	cm	deg			
1	10396.00	-48.24	-55.73	7.49	-13.00	-35.24	---	---	Peak	Horizontal

Vertical



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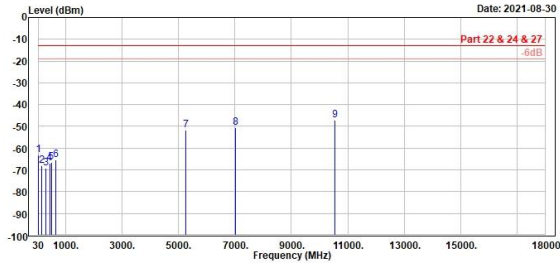
	Freq	Level	Read Level Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	cm	deg			
1	10396.00	-46.65	-54.08	7.43	-13.00	-33.65	---	---	Peak	Vertical

Channel 20399

Horizontal



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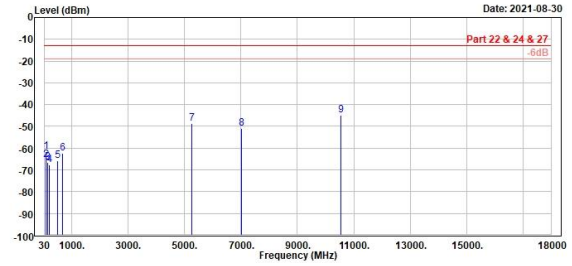


	Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	37.76	-63.20	-70.13	6.93	-13.00	-50.20	---	---	Peak	Horizontal	
2	142.23	-68.22	-68.63	0.41	-13.00	-55.22	---	---	Peak	Horizontal	
3	289.09	-69.32	-68.06	-1.26	-13.00	-56.32	---	---	Peak	Horizontal	
4	420.23	-67.00	-69.82	2.82	-13.00	-54.00	---	---	Peak	Horizontal	
5	479.60	-66.72	-69.73	3.01	-13.00	-53.72	---	---	Peak	Horizontal	
6	633.73	-65.27	-69.08	4.71	-13.00	-52.27	---	---	Peak	Horizontal	
7	5265.00	-51.53	-53.91	2.38	-13.00	-38.53	---	---	Peak	Horizontal	
8	7020.00	-50.43	-54.59	4.17	-13.00	-37.42	---	---	Peak	Horizontal	
9	10530.00	-47.12	-54.99	7.87	-13.00	-34.12	---	---	Peak	Horizontal	

Vertical



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	Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	79.18	-61.48	-58.86	-2.62	-13.00	-48.48	---	---	Peak	Vertical	
2	93.54	-65.28	-64.17	-1.11	-13.00	-52.28	---	---	Peak	Vertical	
3	153.68	-66.71	-70.39	3.68	-13.00	-53.71	---	---	Peak	Vertical	
4	211.58	-67.62	-68.57	0.95	-13.00	-54.62	---	---	Peak	Vertical	
5	484.25	-65.82	-69.28	3.46	-13.00	-52.82	---	---	Peak	Vertical	
6	665.45	-62.30	-70.08	7.78	-13.00	-49.30	---	---	Peak	Vertical	
7	5265.00	-48.51	-50.63	2.12	-13.00	-35.51	---	---	Peak	Vertical	
8	7020.00	-50.85	-54.82	3.97	-13.00	-37.85	---	---	Peak	Vertical	
9	10530.00	-44.99	-52.76	7.77	-13.00	-31.99	---	---	Peak	Vertical	

LTE Band 12

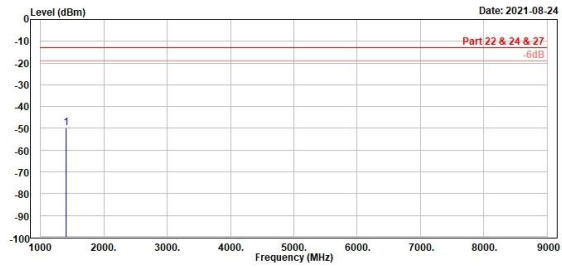
Channel 23011

Horizontal

Vertical



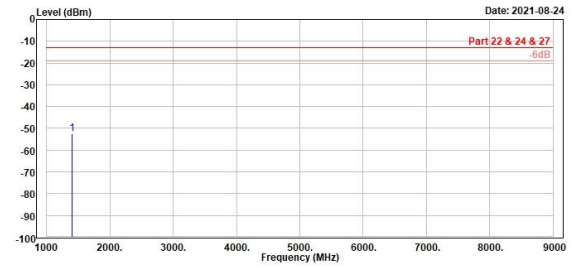
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1 1398.00 -49.98 -37.84 -12.14 -13.00 -36.98 Peak Horizontal



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1 1398.00 -52.32 -41.54 -10.78 -13.00 -39.32 Peak Vertical

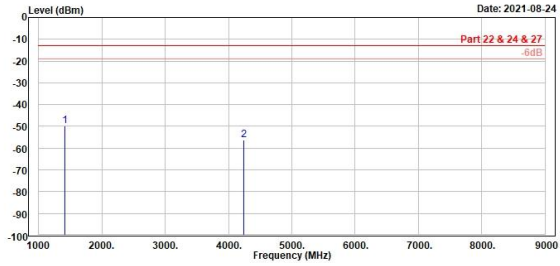
Channel 23095

Horizontal

Vertical



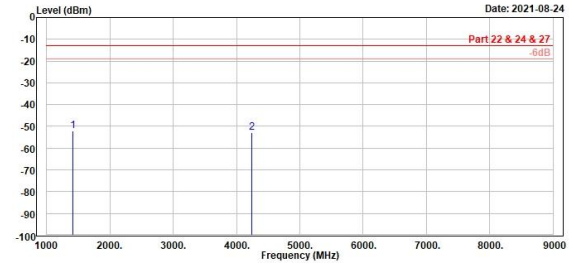
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Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB			
1 1415.00	-49.69	-37.61	-12.08	-13.00	-36.69	Peak	Horizontal	
2 4245.00	-56.14	-54.18	-1.96	-13.00	-43.14	Peak	Horizontal	



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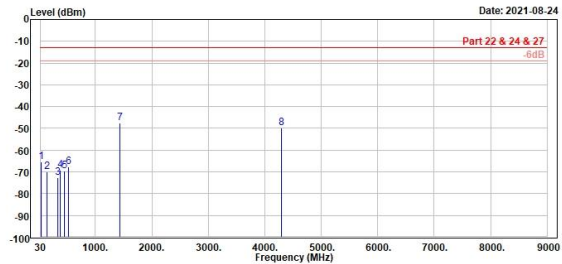
Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB			
1 1415.00	-51.98	-41.25	-10.73	-13.00	-38.98	Peak	Vertical	
2 4245.00	-52.79	-50.93	-1.86	-13.00	-39.79	Peak	Vertical	

Channel 23179

Horizontal



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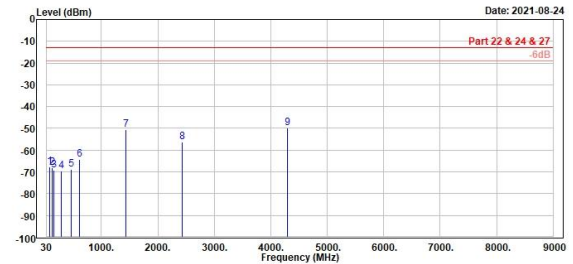


	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	35.34	-65.41	-70.46	5.05	-13.00	-52.41	Peak	Horizontal	
2	146.01	-70.04	-68.41	-1.63	-13.00	-57.04	Peak	Horizontal	
3	330.22	-72.53	-70.77	-1.76	-13.00	-59.53	Peak	Horizontal	
4	385.51	-69.13	-69.30	0.17	-13.00	-56.13	Peak	Horizontal	
5	448.75	-69.40	-70.13	0.73	-13.00	-56.40	Peak	Horizontal	
6	525.48	-67.00	-68.09	1.09	-13.00	-54.00	Peak	Horizontal	
7	1432.00	-47.57	-35.56	-12.01	-13.00	-34.57	Peak	Horizontal	
8	4295.00	-49.82	-47.97	-1.85	-13.00	-36.82	Peak	Horizontal	

Vertical



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	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	84.42	-67.64	-63.44	-4.20	-13.00	-54.64	Peak	Vertical	
2	131.46	-67.95	-65.64	-2.31	-13.00	-54.95	Peak	Vertical	
3	162.31	-69.20	-70.50	1.30	-13.00	-56.20	Peak	Vertical	
4	289.09	-69.65	-70.16	0.51	-13.00	-56.65	Peak	Vertical	
5	463.69	-68.83	-69.97	1.14	-13.00	-55.83	Peak	Vertical	
6	608.31	-64.41	-69.48	5.07	-13.00	-51.41	Peak	Vertical	
7	1432.00	-50.58	-39.91	-10.67	-13.00	-37.58	Peak	Vertical	
8	2439.00	-56.16	-50.66	-5.50	-13.00	-43.16	Peak	Vertical	
9	4295.00	-49.77	-48.00	-1.77	-13.00	-36.77	Peak	Vertical	

LTE Band 13

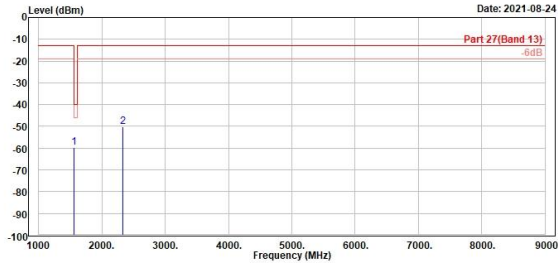
Channel 23181

Horizontal

Vertical



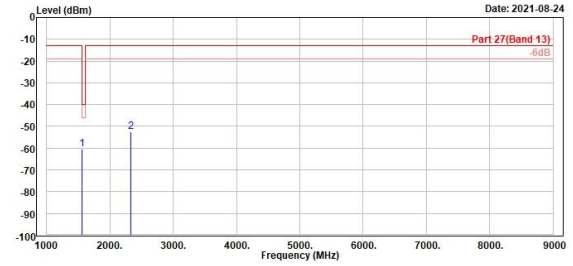
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	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	dBm	dB			
1	1554.00	-59.85	-48.42	-11.43	-13.00	-46.85	Peak		Horizontal	
2	2331.00	-50.15	-42.68	-7.47	-13.00	-37.15	Peak		Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	dBm	dB			
1	1554.00	-60.45	-50.36	-10.09	-13.00	-47.45	Peak		Vertical	
2	2332.00	-52.57	-46.67	-5.90	-13.00	-39.57	Peak		Vertical	

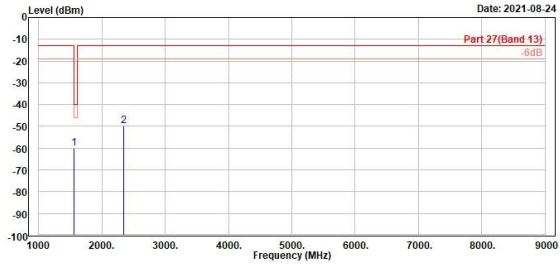
Channel 23230

Horizontal

Vertical



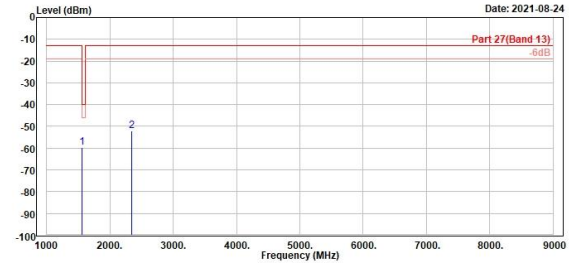
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	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	dBm	dB			
1	1564.00	-59.90	-48.52	-11.38	-40.00	-19.90	Peak		Horizontal	
2	2346.00	-49.68	-42.28	-7.40	-13.00	-36.68	Peak		Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dB	dBm	dB			
1	1564.00	-59.81	-49.78	-10.03	-40.00	-19.81	Peak		Vertical	
2	2346.00	-52.19	-46.35	-5.84	-13.00	-39.19	Peak		Vertical	

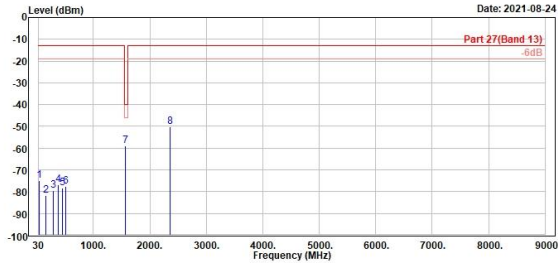
Channel 23279

Horizontal

Vertical



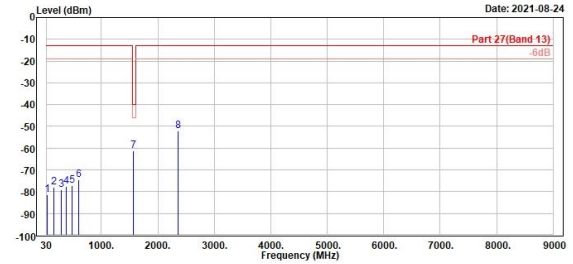
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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dBm	dB	dBm	dB		
1	39.31	-75.09	-79.70	4.61	-13.00	-62.09 Peak	Horizontal	
2	161.14	-81.87	-79.76	-2.11	-13.00	-68.87 Peak	Horizontal	
3	289.19	-79.58	-76.17	-3.41	-13.00	-66.58 Peak	Horizontal	
4	385.41	-76.97	-77.13	0.16	-13.00	-63.97 Peak	Horizontal	
5	456.51	-78.50	-79.26	0.76	-13.00	-65.50 Peak	Horizontal	
6	505.40	-77.70	-78.67	0.97	-13.00	-64.70 Peak	Horizontal	
7	1574.00	-58.78	-47.47	-11.31	-40.00	-18.78 Peak	Horizontal	
8	2361.00	-50.29	-42.95	-7.34	-13.00	-37.29 Peak	Horizontal	

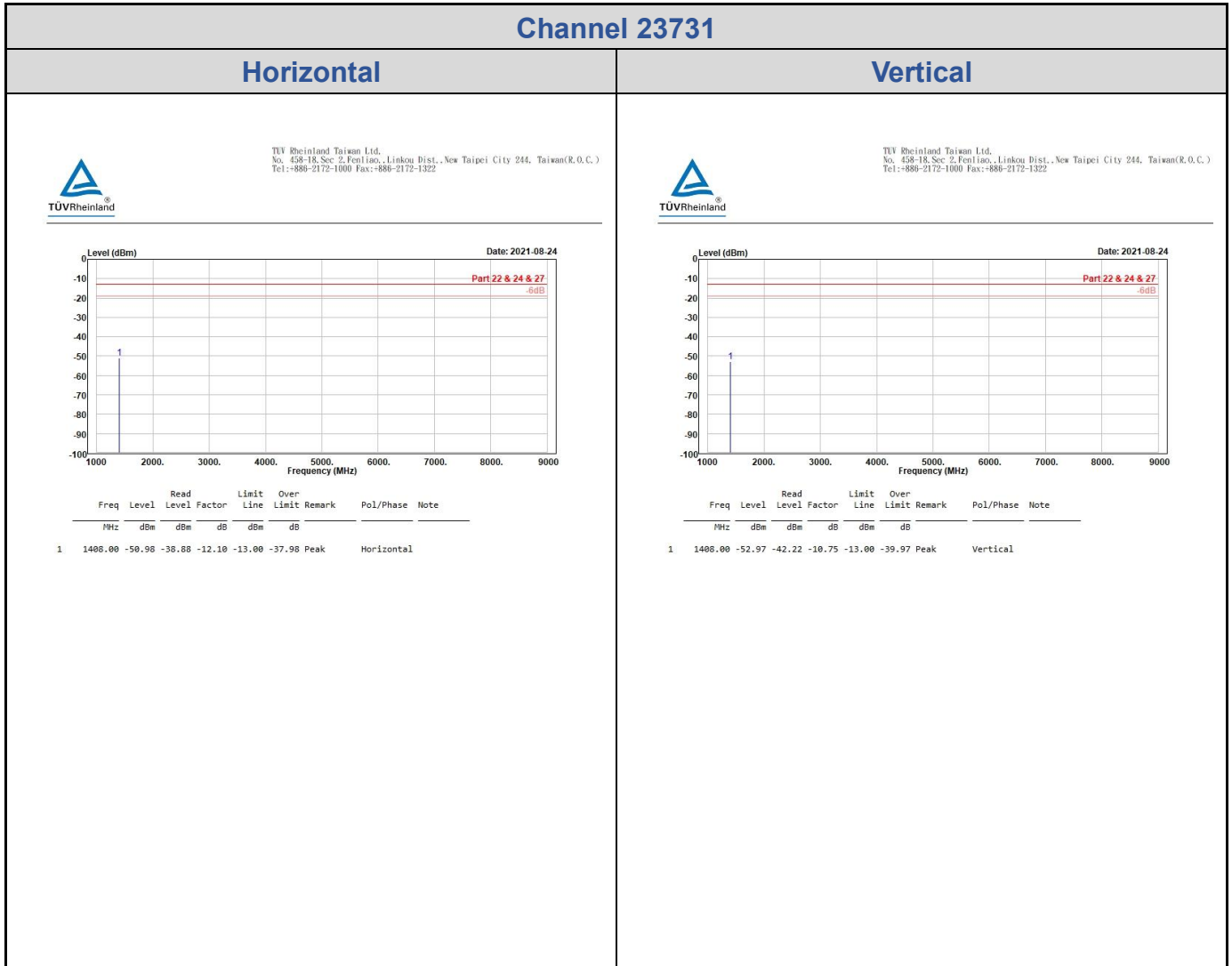


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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dBm	dB	dBm	dB		
1	36.31	-81.28	-73.72	-7.56	-13.00	-68.28 Peak	Vertical	
2	154.84	-77.84	-79.35	1.51	-13.00	-64.84 Peak	Vertical	
3	289.09	-78.90	-79.41	0.51	-13.00	-65.90 Peak	Vertical	
4	385.51	-77.57	-77.99	0.42	-13.00	-64.57 Peak	Vertical	
5	476.01	-77.36	-78.60	1.24	-13.00	-64.36 Peak	Vertical	
6	605.70	-74.56	-79.59	5.03	-13.00	-61.56 Peak	Vertical	
7	1574.00	-61.24	-51.28	-9.96	-40.00	-21.24 Peak	Vertical	
8	2361.00	-52.12	-46.34	-5.78	-13.00	-39.12 Peak	Vertical	

LTE Band 17



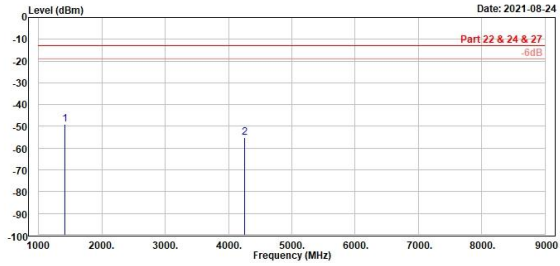
Channel 23790

Horizontal

Vertical



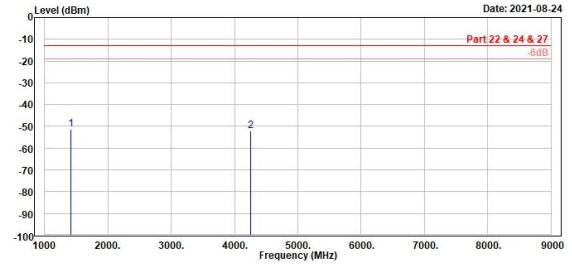
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	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	1420.00	-49.18	-37.12	-12.06	-13.00	-36.18	Peak	Horizontal	
2	4260.00	-55.09	-53.17	-1.92	-13.00	-42.09	Peak	Horizontal	



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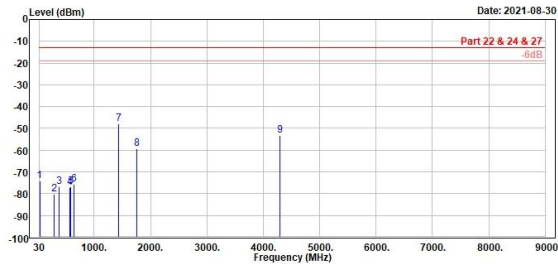
	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	1420.00	-51.18	-40.47	-10.71	-13.00	-38.18	Peak	Vertical	
2	4260.00	-51.92	-50.09	-1.83	-13.00	-38.92	Peak	Vertical	

Channel 23849

Horizontal



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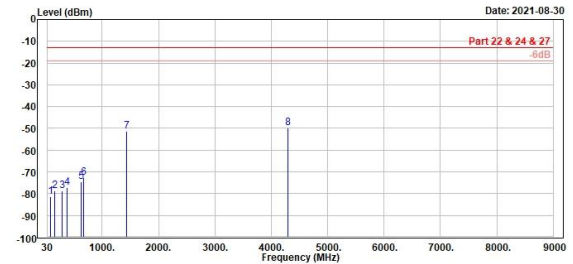


	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level Factor	Line	Limit	dB		
1	34.07	-74.29	-79.31	5.02	-13.00	-61.29	Peak	Horizontal
2	289.09	-80.38	-76.97	-3.41	-13.00	-67.38	Peak	Horizontal
3	385.51	-76.94	-77.11	0.17	-13.00	-63.94	Peak	Horizontal
4	568.93	-77.04	-78.54	1.50	-13.00	-64.04	Peak	Horizontal
5	589.40	-76.94	-78.72	1.78	-13.00	-63.94	Peak	Horizontal
6	643.04	-75.53	-78.27	2.74	-13.00	-62.53	Peak	Horizontal
7	1431.00	-47.96	-35.95	-12.01	-13.00	-34.96	Peak	Horizontal
8	1763.00	-59.37	-49.16	-10.21	-13.00	-46.37	Peak	Horizontal
9	4296.00	-53.24	-51.39	-1.85	-13.00	-40.24	Peak	Horizontal

Vertical



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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level Factor	Line	Limit	dB		
1	80.44	-81.35	-76.64	-4.71	-13.00	-68.35	Peak	Vertical
2	157.75	-78.82	-80.30	1.48	-13.00	-65.82	Peak	Vertical
3	289.09	-78.78	-79.29	0.51	-13.00	-65.78	Peak	Vertical
4	385.51	-77.24	-77.66	0.42	-13.00	-64.24	Peak	Vertical
5	625.19	-74.50	-79.85	5.35	-13.00	-61.50	Peak	Vertical
6	674.66	-72.58	-78.12	5.54	-13.00	-59.58	Peak	Vertical
7	1432.00	-51.29	-40.62	-10.67	-13.00	-38.29	Peak	Vertical
8	4295.00	-49.70	-47.93	-1.77	-13.00	-36.70	Peak	Vertical

LTE Band 66

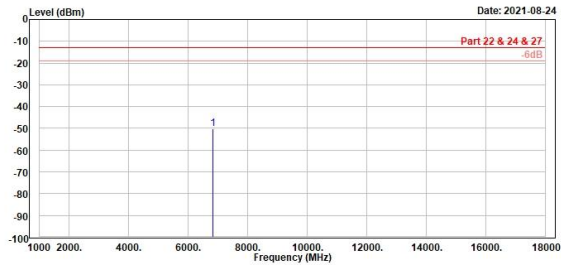
Channel 131973

Horizontal

Vertical



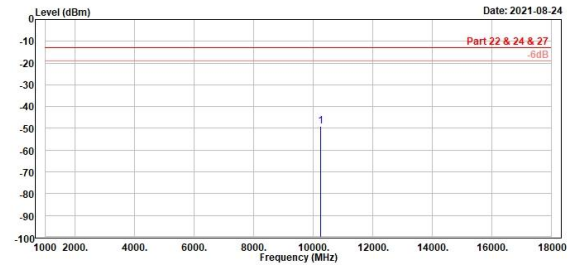
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	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	6840.00	-50.03	-53.95	3.92	-13.00	-37.03	Peak	Horizontal	



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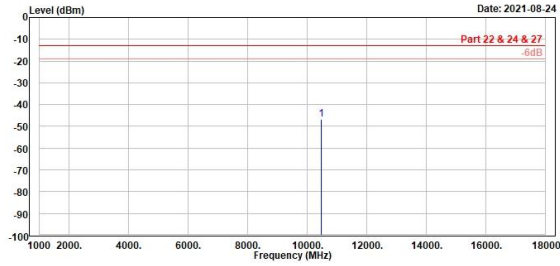
	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	10260.00	-49.01	-56.07	7.06	-13.00	-36.01	Peak	Vertical	

Channel 132322

Horizontal



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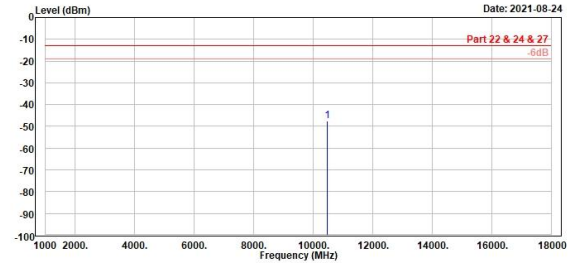


	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	10470.00	-46.68	-54.39	7.71	-13.00	-33.68	Peak	Horizontal	

Vertical



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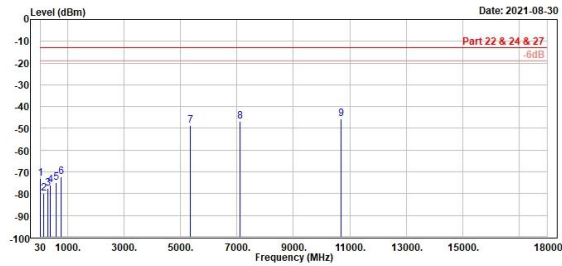
	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB			
1	10470.00	-47.35	-54.97	7.62	-13.00	-34.35	Peak	Vertical	

Channel 132671

Horizontal



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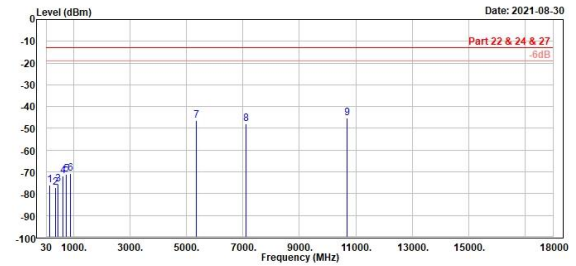


	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dB	dBm	dB			
1	37.08	-73.12	-80.13	7.01	-13.00	-60.12 Peak	Horizontal	
2	149.50	-79.79	-80.40	0.61	-13.00	-66.79 Peak	Horizontal	
3	289.18	-77.55	-76.29	-1.26	-13.00	-64.55 Peak	Horizontal	
4	385.51	-76.22	-78.54	2.32	-13.00	-63.22 Peak	Horizontal	
5	571.45	-74.82	-78.51	3.69	-13.00	-61.82 Peak	Horizontal	
6	760.02	-72.41	-79.79	7.38	-13.00	-59.41 Peak	Horizontal	
7	5339.00	-48.03	-51.35	2.52	-13.00	-35.03 Peak	Horizontal	
8	7119.00	-46.93	-51.08	4.15	-13.00	-33.93 Peak	Horizontal	
9	10679.00	-45.77	-53.91	8.14	-13.00	-32.77 Peak	Horizontal	

Vertical



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	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBm	Level	Line	Limit			
			Factor					
			dB	dBm	dB			
1	141.36	-76.09	-78.88	2.79	-13.00	-63.09 Peak	Vertical	
2	336.62	-77.10	-79.48	2.38	-13.00	-64.10 Peak	Vertical	
3	431.39	-75.63	-78.62	2.99	-13.00	-62.63 Peak	Vertical	
4	620.25	-71.80	-79.22	7.42	-13.00	-58.80 Peak	Vertical	
5	728.50	-71.07	-78.99	7.92	-13.00	-58.07 Peak	Vertical	
6	869.92	-70.84	-80.05	9.21	-13.00	-57.04 Peak	Vertical	
7	5340.00	-46.44	-48.66	2.22	-13.00	-33.44 Peak	Vertical	
8	7119.00	-48.03	-51.98	3.95	-13.00	-35.03 Peak	Vertical	
9	10679.00	-45.17	-53.21	8.04	-13.00	-32.17 Peak	Vertical	