



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2453-3,XT2453-4,XT2453-5,XT2453V
FCC ID : IHDT56AR7
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(D),
27(N), 27(O), 90(R), 96
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Mar. 28, 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



Sporton International Inc. (Kunshan)

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



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	§2.1046	Conducted Output Power	Reporting Only	PASS	1
	§22.913(a)(5)	Effective Radiated Power (5G NR n5, n26)	ERP < 7 Watt		
	§27.50(b)(10) §27.50(c)(10) §90.542 (a)(7)	Effective Radiated Power (5G NR n12, n71) (5G NR n14)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n2, n25) (5G NR n41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66, n70)	EIRP < 1Watt		
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77)	EIRP < 1Watt		
	§27.50 (a)(3)	Equivalent Isotropic Radiated Power (5G NR n30)	EIRP < 250mW/5MHz		
	§96.41	Maximum E.I.R.P ((5G NR n48)	< 23dBm/10MHz		
-	§24.232(d) §27.50(j)(4) §96.41	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049 §96.41	Occupied Bandwidth	Reporting Only	PASS	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n12, n71) (5G NR n77)	< 43+10log ₁₀ (P[Watts])	PASS	1
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
	§2.1051 §27.53 (a)(4)	(5G NR n30)	Refer standard		
	§ 2.1051 § 96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio (5G NR n48)	Refer standard		
	§2.1053 §90.543 (e)(2)(3)	(5G NR n14)	Refer standard		
-	§2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2) §90.543 (e)(3)	Conducted Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n12, n71) (5G NR n77) (5G NR n14)	< 43+10log ₁₀ (P[Watts])	PASS	1
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		
	§ 2.1051 § 96.41	(5G NR n48)	-40dBm/MHz		
	§2.1051 §27.53 (a)(4)	(5G NR n30)	< 70+10log ₁₀ (P[Watts])		
-	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1



	§24.235 §27.54		Within Authorized Band		
	§90.539 (e)		< ±1.25 ppm		
3.4	§2.1053 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2) §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n12, n71) (5G NR n77) (5G NR n14)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 11.27 dB at 10818.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		
	§2.1053 §27.53 (a)(4)	(5G NR n30)	< 70+10log ₁₀ (P[Watts])		
	§2.1051 §96.41	(5G NR n48)	-40dBm/MHz		

Remark 1 : The test items of inter band CA were cover by 5G NR single carrier due to the CA power is reduced according to 3GPP MPR.

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	XT2453-3,XT2453-4,XT2453-5,XT2453V
FCC ID	IHDT56AR7
IMEI Code	Radiation: 358394210031030/358394210031048
HW Version	DVT2
SW Version	U3UC34.22
EUT Stage	Identical Prototype

Note: The four model names are only for market segment, no other difference.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 824 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz;(Part 270)
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n12: 729 MHz ~ 746 MHz 5G NR n14: 758 MHz ~ 768 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n26 : 869 MHz ~ 894 MHz 5G NR n30 : 2350 MHz ~ 2360 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66 : 2110 MHz~ 2200 MHz



	5G NR n70 : 1995 MHz ~ 2020 MHz 5G NR n71: 617 MHz ~ 652 MHz 5G NR n77: 3700 MHz ~ 3980 MHz;(Part 270)
Bandwidth	n2/25/66: 5/10/15/20/25/30/35/40MHz n5/26/71: 5/10/15/20MHz n12/70: 5/10/15MHz n14/30: 5/10MHz n41: 10/15/20/25/30/35/40/45/50/60/70/80/90/100MHz n48: 10/15/20/30/40MHz n77: 10/15/20/25/30/40/50/60/70/80/90/100MHz
SCS	15kHz, 30kHz
Uplink CA Bands	n71A-n77A n2A-n5A n2A-n48A n2A-n12A n2A-n30A n2A-n77A n5A-n30A n5A-n48A n5A-n46A n5A-n77A n12A-n30A n12A-n66A n12A-n77A n14A-n30A n14A-n66A n14A-n77A n25A-n41A n25A-n48A n25A-n66A n25A-n71A n25A-n77A n26A-n66A n26A-n70A n26A-n77A n30A-n66A n30A-n77A n41A-n48A n41A-n66A n41A-n71A n41A-n77A n48A-n66A n48A-n70A n48A-n71A n66A-n71A n66A-n77A n70A-n71A n70A-n77A
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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



1.6 Specification of Accessory

Specification of Accessory				
Battery 1	Brand Name	Motorola	Model Name	QR11
Battery 2	Brand Name	Motorola	Model Name	QR31
USB Cable 1	Brand Name	Motorola(CABLETECH)	Model Name	SC18E05246
USB Cable 2	Brand Name	Motorola(SAIBAO)	Model Name	SC18D86732

1.7 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.
	03CH04-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	210616



1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(D), 27(N), 27(O), 90(R), 96
- ♦ 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.

The EUT is a folding phone, pretest the open status and closed status, only the worst status perform final test and record in the report. For the accessories, pretest standalone mode / Earphone mode / Adapter mode / Wireless charging mode, only the worst status perform final test and record in the report.

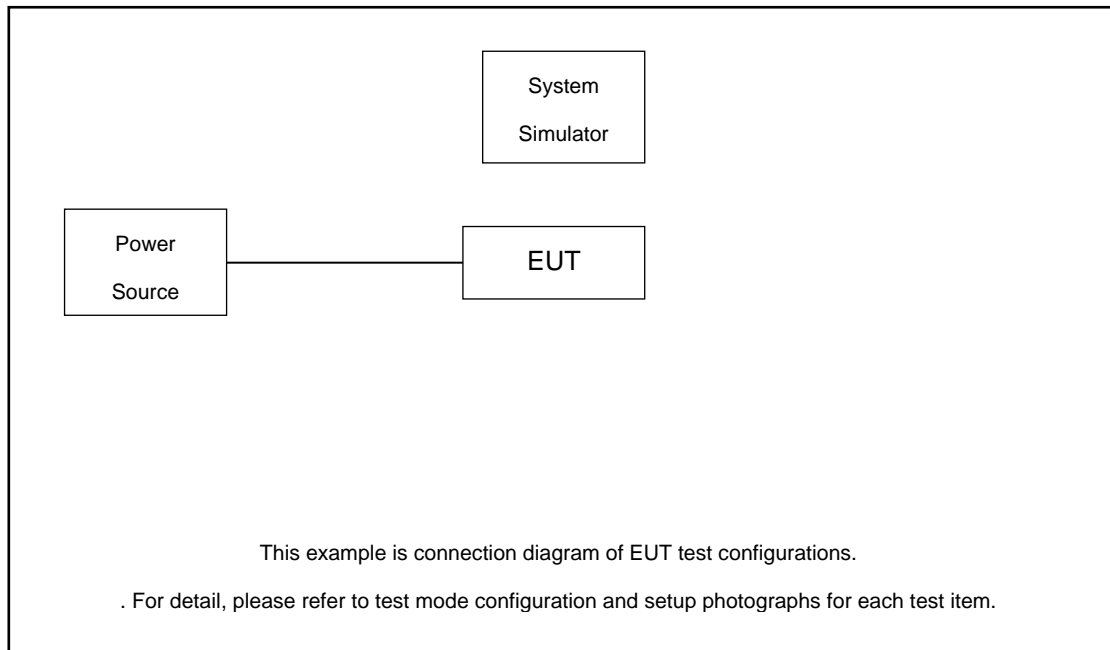
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X/Y-Plane)

Test Items	5G NR	Bandwidth (MHz)													Modulation				RB #		Test Channel			
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	6QAM	54QAM	56QAM	1	Full	L	M	H
Radiated Spurious Emission	n71A-n77A	Worst Case																	1	Full			v	
	n2A-n5A	Worst Case																					v	
	n2A-n48A	Worst Case																					v	
	n2A-n12A	Worst Case																					v	
	n2A-n30A	Worst Case																					v	
	n2A-n77A	Worst Case																					v	
	n5A-n30A	Worst Case																					v	
	n5A-n48A	Worst Case																					v	
	n5A-n46A	Worst Case																					v	
	n5A-n77A	Worst Case																					v	
	n12A-n30A	Worst Case																					v	
	n12A-n66A	Worst Case																					v	
	n12A-n77A	Worst Case																					v	
	n14A-n30A	Worst Case																					v	
	n14A-n66A	Worst Case																					v	
	n14A-n77A	Worst Case																					v	
	n25A-n41A	Worst Case																					v	
	n25A-n48A	Worst Case																					v	
	n25A-n66A	Worst Case																					v	
	n25A-n71A	Worst Case																					v	
n25A-n77A	Worst Case																					v		
n26A-n66A	Worst Case																					v		



Test Items	5G NR	Bandwidth (MHz)													Modulation				RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	6QAM	4QAM	56QAM	1	Full	L	M
	n26A-n70A	Worst Case																				v	
	n26A-n77A	Worst Case																				v	
	n30A-n66A	Worst Case																				v	
	n30A-n77A	Worst Case																				v	
	n41A-n48A	Worst Case																				v	
	n41A-n66A	Worst Case																				v	
	n41A-n71A	Worst Case																				v	
	n41A-n77A	Worst Case																				v	
	n48A-n66A	Worst Case																				v	
	n48A-n70A	Worst Case																				v	
	n48A-n71A	Worst Case																				v	
	n66A-n71A	Worst Case																				v	
	n66A-n77A	Worst Case																				v	
	n70A-n71A	Worst Case																				v	
	n70A-n77A	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. 4. Frequency Stability : Normal Voltage = 3.88V ; Low Voltage =3.40V. ; High Voltage =4.48V																						

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.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	374000	376000	378000
	Frequency	1870	1880	1890
35	Channel	373500	376000	378500
	Frequency	1867.5	1880	1892.5
30	Channel	373000	376000	379000
	Frequency	1865.0	1880	1895.0
25	Channel	372500	376000	379500
	Frequency	1862.5	1880	1897.5
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5



10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5



5G NR n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

5G NR n14 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	158600		
	Frequency	793		
5	Channel	158100	158600	159100
	Frequency	790.5	793	795.5

5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	374000	376500	379000
	Frequency	1870	1882.5	1895
35	Channel	373500	376500	379500
	Frequency	1867.5	1882.5	1897.5
30	Channel	373000	376500	380000
	Frequency	1865	1882.5	1900
25	Channel	372500	376500	380500
	Frequency	1862.5	1882.5	1902.5
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5



5G NR n26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	471000	-
	Frequency	-	2310	-
5	Channel	470500	471000	471500
	Frequency	2307.5	2310	2312.5

5G NR n41 Channel and Frequency List for SCS 15k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	504201	518601	532998
	Frequency	2521.005	2593.005	2664.99
45	Channel	503700	518601	533499
	Frequency	2518.5	2593.005	2667.495
40	Channel	503202	518601	534000
	Frequency	2516.01	2593.005	2670
35	Channel	502701	518598	534498
	Frequency	2513.505	2592.99	2672.49
30	Channel	502200	518601	534999
	Frequency	2511	2593.005	2674.995
25	Channel	501702	518598	535500
	Frequency	2508.51	2592.99	2677.5
20	Channel	501201	518601	535998
	Frequency	2506.005	2593.005	2679.99
15	Channel	500700	518601	536499
	Frequency	2503.5	2593.005	2682.495



10	Channel	500202	518601	537000
	Frequency	2501.01	2593.005	2685
5	Channel	499701	518601	537498
	Frequency	2498.505	2593.005	2687.49

5G NR n41 Channel and Frequency List for SCS 30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
45	Channel	503700	518598	533496
	Frequency	2518.5	2592.99	2667.48
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
35	Channel	502704	518598	534498
	Frequency	2513.52	2592.99	2672.49
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
25	Channel	501702	518598	535500
	Frequency	2508.51	2592.99	2677.5
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685



5G NR n48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637666	641666	645666
	Frequency	3564.99	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
35	Channel	345500	349000	352500
	Frequency	1727.5	1745	1762.5
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
25	Channel	344500	349000	353500
	Frequency	1722.5	1745	1767.5
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

5G NR n70 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest



15	Channel	340500		
	Frequency	1702.5		
10	Channel	340000	340500	341000
	Frequency	1700	1702.5	1705
5	Channel	399500	340500	341500
	Frequency	1697.5	1702.5	1707.5

5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

5G n77 (15kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647667	656000	664332
	Frequency	3715.005	3840	3964.98
25	Channel	647500	656000	664500
	Frequency	3712.5	3840	3967.5
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647167	656000	664833
	Frequency	3707.505	3840	3972.495
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

5G n77 (30kHz) Channel and Frequency List



BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
25	Channel	647500	656000	664500
	Frequency	3712.5	3840	3967.5
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

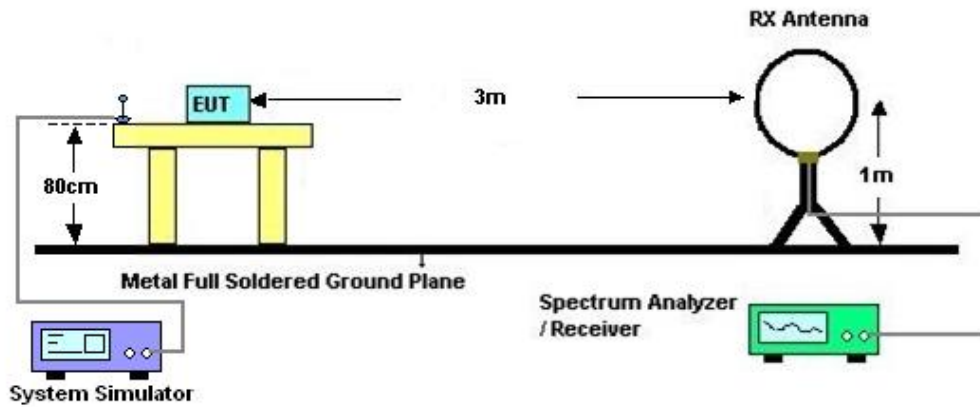
3 Radiated Test Items

3.1 Measuring Instruments

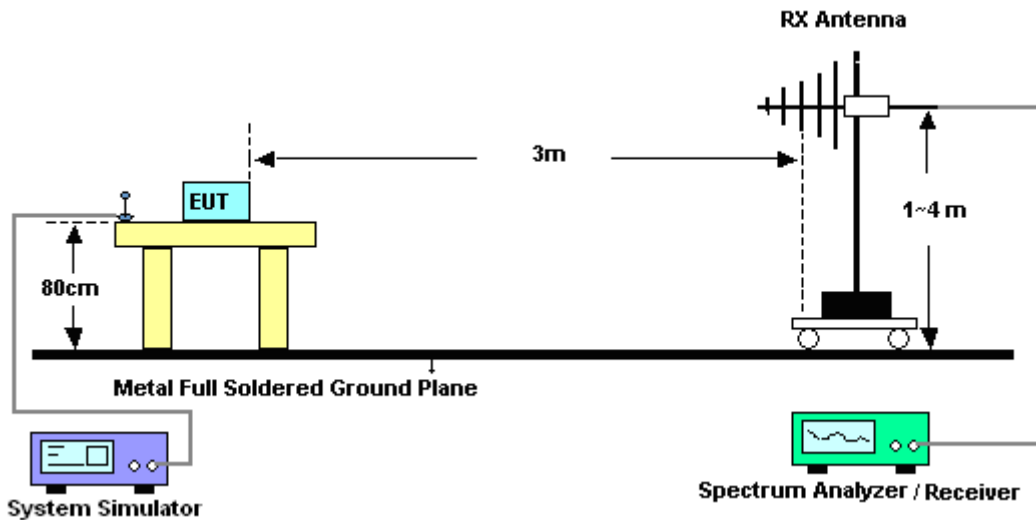
See list of measuring instruments of this test report.

3.2 Test Setup

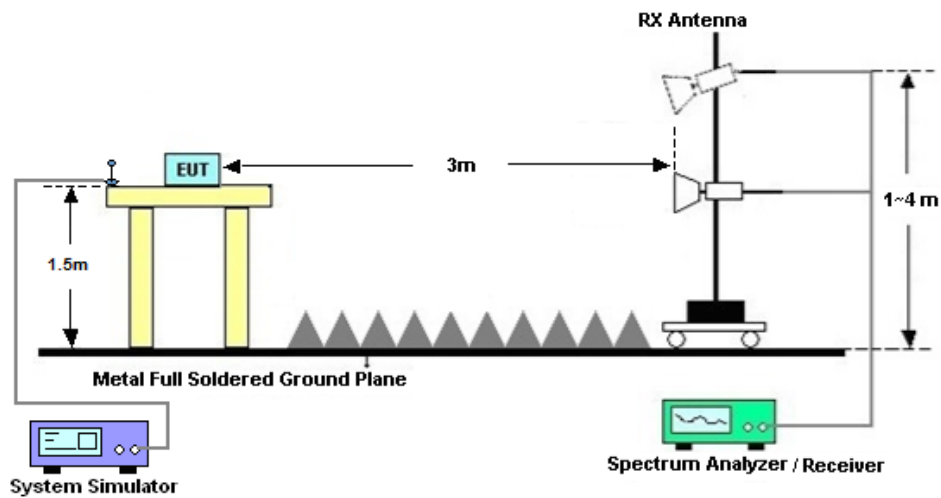
3.2.1 For radiated test below 30MHz



3.2.2 For radiated test from 30MHz to 1GHz



3.2.3 For radiated test above 1GHz



3.3 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 A.



3.4 Radiated Spurious Emission

3.4.1 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 5G NR n48

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 -40dBm / MHz.

For 5G NR n41

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 $55 + 10 \log (P)$ dB.

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

For 5G NR n30

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 $70 + 10 \log (P)$ dB.

For 5G NR n14

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics 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. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.



3.4.2 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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}$.
13. For 5G NR n41:
The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
14. For 5G NR n30:
The limit line is derived from $70 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
The limit line is derived from $70 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Mar. 28, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Mar. 28, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Mar. 28, 2024	Apr. 08, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251694	1GHz~18GHz	Jul. 12, 2023	Mar. 28, 2024	Jul. 11, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	Mar. 28, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Mar. 28, 2024	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2024	Mar. 28, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Mar. 28, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Mar. 28, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 28, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 28, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 28, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



5 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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.54 dB
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Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test and record in the report.

ULCA_n71A-n77A (ANT0+6)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n71 BW 20MHz Middle 1RB0,QPSK	1345	-65.98	-13	-52.98	-67.73	1.02	4.92	H
	2015	-60.16	-13	-47.16	-62.13	1.27	5.39	H
	2685	-57.27	-13	-44.27	-60.20	1.49	6.57	H
	1345	-65.42	-13	-52.42	-67.17	1.02	4.92	V
	2015	-59.63	-13	-46.63	-61.60	1.27	5.39	V
	2685	-56.67	-13	-43.67	-59.60	1.49	6.57	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7596	-63.71	-13	-50.71	-73.92	3.03	13.24	H
	11388	-62.83	-13	-49.83	-72.28	3.56	13.01	H
	15180	-61.79	-13	-48.79	-71.31	3.92	13.44	H
	7596	-63.44	-13	-50.44	-73.65	3.03	13.24	V
	11388	-62.74	-13	-49.74	-72.19	3.56	13.01	V
	15180	-61.67	-13	-48.67	-71.19	3.92	13.44	V

ULCA_n2A-n5A (ANT2+0)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 40MHz Middle 1RB0,QPSK	3720	-55.09	-13	-42.09	-67.35	2.64	14.90	H
	5580	-54.10	-13	-41.10	-65.96	2.94	14.80	H
	7455	-52.78	-13	-39.78	-62.55	3.39	13.16	H
	3720	-54.95	-13	-41.95	-67.21	2.64	14.90	V
	5580	-54.47	-13	-41.47	-66.33	2.94	14.80	V
	7455	-52.69	-13	-39.69	-62.46	3.39	13.16	V
NR n5 BW 20MHz Middle 1RB0,QPSK	1656	-65.57	-13	-52.57	-72.54	1.58	10.70	H
	2482	-61.09	-13	-48.09	-69.34	2.102	12.50	H
	3315	-58.59	-13	-45.59	-67.48	2.856	13.90	H
	1656	-64.82	-13	-51.82	-71.79	1.58	10.70	V
	2482	-59.15	-13	-46.15	-67.40	2.10	12.50	V
	3315	-58.41	-13	-45.41	-67.30	2.86	13.90	V



ULCA_n2A-n12A (ANT2+0)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 40MHz Middle 1RB0,QPSK	3720	-54.72	-13	-41.72	-66.98	2.64	14.90	H
	5580	-54.25	-13	-41.25	-66.11	2.94	14.80	H
	7455	-52.38	-13	-39.38	-62.15	3.39	13.16	H
	3720	-54.81	-13	-41.81	-67.07	2.64	14.90	V
	5580	-54.34	-13	-41.34	-66.20	2.94	14.80	V
	7455	-52.91	-13	-39.91	-62.68	3.39	13.16	V
NR n12 BW 15MHz Middle 1RB0,QPSK	1402	-67.92	-13	-54.92	-74.89	1.58	10.70	H
	2102	-62.80	-13	-49.80	-71.05	2.102	12.50	H
	2804	-59.03	-13	-46.03	-67.92	2.856	13.90	H
	1402	-67.71	-13	-54.71	-74.68	1.58	10.70	V
	2102	-61.93	-13	-48.93	-70.18	2.10	12.50	V
	2804	-58.65	-13	-45.65	-67.54	2.86	13.90	V

ULCA_n2A-n30A (ANT0+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW40MHz Middle 1RB0,QPSK	3720	-60.30	-13	-47.30	-72.56	2.64	14.90	H
	5580	-63.39	-13	-50.39	-75.25	2.94	14.80	H
	7455	-62.36	-13	-49.36	-72.13	3.39	13.16	H
	3720	-63.26	-13	-50.26	-75.52	2.64	14.90	V
	5580	-61.26	-13	-48.26	-73.12	2.94	14.80	V
	7455	-62.60	-13	-49.60	-72.37	3.39	13.16	V
NR n30 BW 10MHz Middle 1RB0,QPSK	4620	-62.41	-40	-22.41	-73.87	2.84	14.30	H
	6930	-61.62	-40	-21.62	-71.56	3.49	13.43	H
	9225	-61.31	-40	-21.31	-71.55	3.85	14.09	H
	4620	-57.95	-40	-17.95	-69.41	2.84	14.30	V
	6930	-59.55	-40	-19.55	-69.49	3.49	13.43	V
	9225	-61.86	-40	-21.86	-72.10	3.85	14.09	V



ULCA_n2A-n48A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW40MHz Middle 1RB0,QPSK	3720	-55.59	-13	-42.59	-67.85	2.64	14.90	H
	5580	-53.66	-13	-40.66	-65.52	2.94	14.80	H
	7455	-51.91	-13	-38.91	-61.68	3.39	13.16	H
	3720	-55.59	-13	-42.59	-67.85	2.64	14.90	V
	5580	-54.00	-13	-41.00	-65.86	2.94	14.80	V
	7455	-51.93	-13	-38.93	-61.70	3.39	13.16	V
NR n48 BW 40MHz Middle 1RB0,QPSK	7209	-52.96	-40	-12.96	-64.42	2.84	14.30	H
	10817	-56.55	-40	-16.55	-66.49	3.49	13.43	H
	14425	-59.43	-40	-19.43	-69.67	3.85	14.09	H
	7209	-57.19	-40	-17.19	-68.65	2.84	14.30	V
	10817	-51.82	-40	-11.82	-61.76	3.49	13.43	V
	14425	-60.60	-40	-20.60	-70.84	3.85	14.09	V

ULCA_n2A-n77A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW40MHz Middle 1RB0,QPSK	3735	-52.63	-13	-39.63	-64.89	2.64	14.90	H
	5580	-52.68	-13	-39.68	-64.54	2.94	14.80	H
	7455	-51.83	-13	-38.83	-61.60	3.39	13.16	H
	3735	-52.81	-13	-39.81	-65.07	2.64	14.90	V
	5580	-51.39	-13	-38.39	-63.25	2.94	14.80	V
	7455	-52.02	-13	-39.02	-61.79	3.39	13.16	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7583	-49.84	-13	-36.84	-60.05	3.03	13.24	H
	11378	-57.59	-13	-44.59	-67.04	3.56	13.01	H
	15184	-62.98	-13	-49.98	-72.50	3.92	13.44	H
	7583	-49.70	-13	-36.70	-59.91	3.03	13.24	V
	11378	-55.43	-13	-42.43	-64.88	3.56	13.01	V
	15184	-63.11	-13	-50.11	-72.63	3.92	13.44	V



ULCA_n5A-n30A (ANT0+2)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW20MHz Middle 1RB0,QPSK	1656	-63.23	-13	-50.23	-70.20	1.58	10.70	H
	2482	-58.64	-13	-45.64	-66.89	2.102	12.50	H
	3315	-67.84	-13	-54.84	-76.73	2.856	13.90	H
	1656	-62.12	-13	-49.12	-69.09	1.58	10.70	V
	2482	-56.69	-13	-43.69	-64.94	2.10	12.50	V
	3315	-67.77	-13	-54.77	-76.66	2.86	13.90	V
NR n30 BW 10MHz Middle 1RB0,QPSK	4620	-63.84	-40	-23.84	-75.30	2.84	14.30	H
	6930	-63.44	-40	-23.44	-73.38	3.49	13.43	H
	9225	-61.85	-40	-21.85	-72.09	3.85	14.09	H
	4620	-63.64	-40	-23.64	-75.10	2.84	14.30	V
	6930	-60.06	-40	-20.06	-70.00	3.49	13.43	V
	9225	-61.70	-40	-21.70	-71.94	3.85	14.09	V

ULCA_n5A-n48A (ANT0+6)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW 20MHz Middle 1RB0,QPSK	1655	-63.57	-13	-50.57	-70.54	1.58	10.70	H
	2470	-55.43	-13	-42.43	-63.68	2.102	12.50	H
	3310	-57.57	-13	-44.57	-66.46	2.856	13.90	H
	1655	-62.10	-13	-49.10	-69.07	1.58	10.70	V
	2470	-53.50	-13	-40.50	-61.75	2.10	12.50	V
	3310	-57.38	-13	-44.38	-66.27	2.86	13.90	V
NR n48 BW 40MHz Middle 1RB0,QPSK	7212	-61.25	-40	-21.25	-72.71	2.84	14.30	H
	10824	-60.08	-40	-20.08	-70.02	3.49	13.43	H
	14424	-61.17	-40	-21.17	-71.41	3.85	14.09	H
	7212	-60.71	-40	-20.71	-72.17	2.84	14.30	V
	10824	-55.63	-40	-15.63	-65.57	3.49	13.43	V
	14424	-61.04	-40	-21.04	-71.28	3.85	14.09	V



ULCA_n5A-n66A (ANT0+2)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW 20MHz Middle 1RB0,QPSK	1656	-65.60	-13	-52.60	-72.57	1.58	10.70	H
	2482	-60.83	-13	-47.83	-69.08	2.102	12.50	H
	3315	-58.57	-13	-45.57	-67.46	2.856	13.90	H
	1656	-64.76	-13	-51.76	-71.73	1.58	10.70	V
	2482	-59.17	-13	-46.17	-67.42	2.10	12.50	V
	3315	-58.43	-13	-45.43	-67.32	2.86	13.90	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-57.38	-13	-44.38	-68.12	2.604	13.34	H
	5175	-53.85	-13	-40.85	-64.36	3.011	13.52	H
	6915	-53.98	-13	-40.98	-64.18	3.271	13.47	H
	3450	-58.13	-13	-45.13	-68.87	2.604	13.34	V
	5175	-50.76	-13	-37.76	-61.27	3.011	13.52	V
	6915	-54.09	-13	-41.09	-64.29	3.271	13.47	V

ULCA_n5A-n77A (ANT0+6)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW 20MHz Middle 1RB0,QPSK	1655	-63.35	-13	-50.35	-70.32	1.58	10.70	H
	2475	-51.94	-13	-38.94	-60.19	2.102	12.50	H
	3310	-57.51	-13	-44.51	-66.40	2.856	13.90	H
	1655	-62.37	-13	-49.37	-69.34	1.58	10.70	V
	2470	-55.44	-13	-42.44	-63.69	2.10	12.50	V
	3310	-57.69	-13	-44.69	-66.58	2.86	13.90	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-61.47	-13	-48.47	-71.68	3.03	13.24	H
	11388	-64.09	-13	-51.09	-73.54	3.56	13.01	H
	15180	-63.17	-13	-50.17	-72.69	3.92	13.44	H
	7584	-61.73	-13	-48.73	-71.94	3.03	13.24	V
	11388	-63.76	-13	-50.76	-73.21	3.56	13.01	V
	15180	-63.29	-13	-50.29	-72.81	3.92	13.44	V



ULCA_n12A-n30A (ANT0+2)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 BW 15MHz Middle 1RB0,QPSK	1402	-65.43	-13	-52.43	-72.40	1.58	10.70	H
	2102	-60.59	-13	-47.59	-68.84	2.102	12.50	H
	2804	-56.21	-13	-43.21	-65.10	2.856	13.90	H
	1402	-65.04	-13	-52.04	-72.01	1.58	10.70	V
	2102	-59.12	-13	-46.12	-67.37	2.10	12.50	V
	2804	-56.31	-13	-43.31	-65.20	2.86	13.90	V
NR n30 BW 10MHz Middle 1RB0,QPSK	4620	-63.66	-40	-23.66	-75.12	2.84	14.30	H
	6930	-63.28	-40	-23.28	-73.22	3.49	13.43	H
	9225	-61.74	-40	-21.74	-71.98	3.85	14.09	H
	4620	-63.37	-40	-23.37	-74.83	2.84	14.30	V
	6930	-63.54	-40	-23.54	-73.48	3.49	13.43	V
	9225	-61.55	-40	-21.55	-71.79	3.85	14.09	V

ULCA_n12A-n66A (ANT0+2)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 BW 15MHz Middle 1RB0,QPSK	1402	-67.99	-13	-54.99	-74.96	1.58	10.70	H
	2102	-62.86	-13	-49.86	-71.11	2.102	12.50	H
	2804	-59.37	-13	-46.37	-68.26	2.856	13.90	H
	1402	-67.33	-13	-54.33	-74.30	1.58	10.70	V
	2102	-61.70	-13	-48.70	-69.95	2.10	12.50	V
	2804	-58.97	-13	-45.97	-67.86	2.86	13.90	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-57.69	-13	-44.69	-68.43	2.604	13.34	H
	5175	-53.27	-13	-40.27	-63.78	3.011	13.52	H
	6915	-54.13	-13	-41.13	-64.33	3.271	13.47	H
	3450	-58.20	-13	-45.20	-68.94	2.604	13.34	V
	5175	-53.76	-13	-40.76	-64.27	3.011	13.52	V
	6915	-54.20	-13	-41.20	-64.40	3.271	13.47	V



ULCA_n12A-n77A (ANT0+6)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 BW 15MHz Middle 1RB0,QPSK	1400	-66.16	-13	-53.16	-73.13	1.58	10.70	H
	2105	-60.45	-13	-47.45	-68.70	2.102	12.50	H
	2805	-56.89	-13	-43.89	-65.78	2.856	13.90	H
	1400	-65.49	-13	-52.49	-72.46	1.58	10.70	V
	2105	-59.35	-13	-46.35	-67.60	2.10	12.50	V
	2805	-56.01	-13	-43.01	-64.90	2.86	13.90	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-49.97	-13	-36.97	-60.18	3.03	13.24	H
	11376	-60.97	-13	-47.97	-70.42	3.56	13.01	H
	15180	-63.38	-13	-50.38	-72.90	3.92	13.44	H
	7584	-51.70	-13	-38.70	-61.91	3.03	13.24	V
	11376	-60.83	-13	-47.83	-70.28	3.56	13.01	V
	15180	-63.27	-13	-50.27	-72.79	3.92	13.44	V

ULCA_n14A-n30A (ANT0+2)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n14 BW 10MHz Middle 1RB0,QPSK	1578	-64.02	-42.15	-21.87	-66.65	1.09	5.87	H
	2366	-59.07	-13	-46.07	-61.47	1.37	5.92	H
	3150	-66.77	-13	-53.77	-70.66	1.64	7.68	H
	1578	-63.20	-42.15	-21.05	-65.83	1.09	5.87	V
	2366	-57.54	-13	-44.54	-59.94	1.37	5.92	V
	3150	-66.69	-13	-53.69	-70.58	1.64	7.68	V
NR n30 BW 10MHz Middle 1RB0,QPSK	4620	-64.02	-40	-24.02	-75.48	2.84	14.30	H
	6930	-63.68	-40	-23.68	-73.62	3.49	13.43	H
	9225	-61.19	-40	-21.19	-71.43	3.85	14.09	H
	4620	-63.44	-40	-23.44	-74.90	2.84	14.30	V
	6930	-63.19	-40	-23.19	-73.13	3.49	13.43	V
	9225	-61.64	-40	-21.64	-71.88	3.85	14.09	V



ULCA_n14A-n66A (ANT0+2)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n14 BW 10MHz Middle 1RB0,QPSK	1578	-66.24	-42.15	-24.09	-68.87	1.09	5.87	H
	2366	-60.81	-13	-47.81	-63.21	1.37	5.92	H
	3150	-59.52	-13	-46.52	-63.41	1.64	7.68	H
	1578	-65.53	-42.15	-23.38	-68.16	1.09	5.87	V
	2366	-59.81	-13	-46.81	-62.21	1.37	5.92	V
	3150	-59.64	-13	-46.64	-63.53	1.64	7.68	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-58.75	-13	-45.75	-69.49	2.604	13.34	H
	5175	-55.49	-13	-42.49	-66.00	3.011	13.52	H
	6915	-55.40	-13	-42.40	-65.60	3.271	13.47	H
	3450	-59.11	-13	-46.11	-69.85	2.604	13.34	V
	5175	-55.91	-13	-42.91	-66.42	3.011	13.52	V
	6915	-55.49	-13	-42.49	-65.69	3.271	13.47	V

ULCA_n14A-n77A (ANT0+6)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n14 BW 10MHz Middle 1RB0,QPSK	1575	-64.62	-42.15	-22.47	-67.25	1.09	5.87	H
	2365	-58.98	-13	-45.98	-61.38	1.37	5.92	H
	3155	-57.29	-13	-44.29	-61.18	1.64	7.68	H
	1575	-63.76	-42.15	-21.61	-66.39	1.09	5.87	V
	2365	-57.96	-13	-44.96	-60.36	1.37	5.92	V
	3155	-56.79	-13	-43.79	-60.68	1.64	7.68	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-63.95	-13	-50.95	-74.16	3.03	13.24	H
	11376	-64.38	-13	-51.38	-73.83	3.56	13.01	H
	15180	-62.86	-13	-49.86	-72.38	3.92	13.44	H
	7584	-59.27	-13	-46.27	-69.48	3.03	13.24	V
	11376	-59.24	-13	-46.24	-68.69	3.56	13.01	V
	15180	-63.04	-13	-50.04	-72.56	3.92	13.44	V



ULCA_n25A-n41A (ANT2+3)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 BW 40MHz Middle 1RB0,QPSK	3735	-65.53	-13	-52.53	-77.79	2.64	14.90	H
	5595	-63.83	-13	-50.83	-75.69	2.94	14.80	H
	7455	-63.06	-13	-50.06	-72.83	3.39	13.16	H
	3735	-65.14	-13	-52.14	-77.40	2.64	14.90	V
	5595	-64.09	-13	-51.09	-75.95	2.94	14.80	V
	7455	-62.74	-13	-49.74	-72.51	3.39	13.16	V
NR n41 BW 100MHz Middle 1RB0,QPSK	5085	-60.40	-25	-35.40	-70.61	3.03	13.24	H
	7635	-53.88	-25	-28.88	-63.33	3.56	13.01	H
	10185	-61.73	-25	-36.73	-71.25	3.92	13.44	H
	5085	-56.34	-25	-31.34	-66.55	3.03	13.24	V
	7635	-56.80	-25	-31.80	-66.25	3.56	13.01	V
	10185	-62.10	-25	-37.10	-71.62	3.92	13.44	V

ULCA_n25A-n48A (ANT2+0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 BW 40MHz Middle 1RB0,QPSK	3735	-56.35	-13	-43.35	-68.61	2.64	14.90	H
	5595	-53.46	-13	-40.46	-65.32	2.94	14.80	H
	7455	-51.73	-13	-38.73	-61.50	3.39	13.16	H
	3735	-56.21	-13	-43.21	-68.47	2.64	14.90	V
	5595	-53.66	-13	-40.66	-65.52	2.94	14.80	V
	7455	-52.06	-13	-39.06	-61.83	3.39	13.16	V
NR n48 BW 40MHz Middle 1RB0,QPSK	7209	-62.98	-40	-22.98	-74.44	2.84	14.30	H
	10817	-59.91	-40	-19.91	-69.85	3.49	13.43	H
	14425	-59.71	-40	-19.71	-69.95	3.85	14.09	H
	7209	-62.61	-40	-22.61	-74.07	2.84	14.30	V
	10817	-60.69	-40	-20.69	-70.63	3.49	13.43	V
	14425	-59.85	-40	-19.85	-70.09	3.85	14.09	V



ULCA_n25A-n66A (ANT2+0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 BW 40MHz Middle 1RB0,QPSK	3735	-55.56	-13	-42.56	-67.82	2.64	14.90	H
	5595	-53.58	-13	-40.58	-65.44	2.94	14.80	H
	7455	-52.29	-13	-39.29	-62.06	3.39	13.16	H
	3735	-55.51	-13	-42.51	-67.77	2.64	14.90	V
	5595	-54.16	-13	-41.16	-66.02	2.94	14.80	V
	7455	-52.48	-13	-39.48	-62.25	3.39	13.16	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-57.59	-13	-44.59	-68.33	2.604	13.34	H
	5175	-53.50	-13	-40.50	-64.01	3.011	13.52	H
	6915	-53.70	-13	-40.70	-63.90	3.271	13.47	H
	3450	-57.80	-13	-44.80	-68.54	2.604	13.34	V
	5175	-53.85	-13	-40.85	-64.36	3.011	13.52	V
	6915	-54.00	-13	-41.00	-64.20	3.271	13.47	V

ULCA_n25A-n71A (ANT2+6)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 BW 40MHz Middle 1RB0,QPSK	3735	-55.27	-13	-42.27	-67.53	2.64	14.90	H
	5595	-53.72	-13	-40.72	-65.58	2.94	14.80	H
	7455	-52.14	-13	-39.14	-61.91	3.39	13.16	H
	3735	-55.22	-13	-42.22	-67.48	2.64	14.90	V
	5595	-54.14	-13	-41.14	-66.00	2.94	14.80	V
	7455	-52.56	-13	-39.56	-62.33	3.39	13.16	V
NR n71 BW 20MHz Middle 1RB0,QPSK	1344	-66.36	-13	-53.36	-68.11	1.02	4.92	H
	2014	-60.40	-13	-47.40	-62.37	1.27	5.39	H
	2686	-57.05	-13	-44.05	-59.98	1.49	6.57	H
	1344	-65.62	-13	-52.62	-67.37	1.02	4.92	V
	2014	-59.35	-13	-46.35	-61.32	1.27	5.39	V
	2686	-56.91	-13	-43.91	-59.84	1.49	6.57	V



ULCA_n25A-n77A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 BW 40MHz Middle 1RB0,QPSK	3735	-53.44	-13	-40.44	-65.70	2.64	14.90	H
	5595	-52.01	-13	-39.01	-63.87	2.94	14.80	H
	7455	-51.94	-13	-38.94	-61.71	3.39	13.16	H
	3735	-50.81	-13	-37.81	-63.07	2.64	14.90	V
	5595	-52.17	-13	-39.17	-64.03	2.94	14.80	V
	7455	-51.77	-13	-38.77	-61.54	3.39	13.16	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7583	-49.05	-13	-36.05	-59.26	3.03	13.24	H
	11378	-57.46	-13	-44.46	-66.91	3.56	13.01	H
	15184	-63.21	-13	-50.21	-72.73	3.92	13.44	H
	7583	-50.08	-13	-37.08	-60.29	3.03	13.24	V
	11378	-55.00	-13	-42.00	-64.45	3.56	13.01	V
	15184	-63.31	-13	-50.31	-72.83	3.92	13.44	V

ULCA_n26A-n66A (ANT0+2)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n26 BW 20MHz Middle 1RB0,QPSK	1646	-66.19	-13	-53.19	-73.16	1.58	10.70	H
	2468	-60.73	-13	-47.73	-68.98	2.102	12.50	H
	3285	-57.20	-13	-44.20	-66.09	2.856	13.90	H
	1646	-65.37	-13	-52.37	-72.34	1.58	10.70	V
	2468	-58.36	-13	-45.36	-66.61	2.10	12.50	V
	3285	-57.49	-13	-44.49	-66.38	2.86	13.90	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-56.94	-13	-43.94	-67.68	2.604	13.34	H
	5175	-53.37	-13	-40.37	-63.88	3.011	13.52	H
	6915	-53.49	-13	-40.49	-63.69	3.271	13.47	H
	3450	-57.06	-13	-44.06	-67.80	2.604	13.34	V
	5175	-53.15	-13	-40.15	-63.66	3.011	13.52	V
	6915	-53.43	-13	-40.43	-63.63	3.271	13.47	V



ULCA_n26A-n70A (ANT0+1)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n26 BW 20MHz Middle 1RB0,QPSK	1644	-64.15	-13	-51.15	-71.12	1.58	10.70	H
	2468	-58.23	-13	-45.23	-66.48	2.102	12.50	H
	3285	-58.54	-13	-45.54	-67.43	2.856	13.90	H
	1644	-63.05	-13	-50.05	-70.02	1.58	10.70	V
	2468	-57.11	-13	-44.11	-65.36	2.10	12.50	V
	3285	-58.85	-13	-45.85	-67.74	2.86	13.90	V
NR n70 BW 15MHz Middle 1RB0,QPSK	3390	-57.69	-13	-44.69	-68.43	2.604	13.34	H
	5085	-53.35	-13	-40.35	-63.86	3.011	13.52	H
	6780	-53.56	-13	-40.56	-63.76	3.271	13.47	H
	3390	-58.34	-13	-45.34	-69.08	2.604	13.34	V
	5085	-53.98	-13	-40.98	-64.49	3.011	13.52	V
	6780	-54.08	-13	-41.08	-64.28	3.271	13.47	V

ULCA_n26A-n77A (ANT0+6)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n26 BW 20MHz Middle 1RB0,QPSK	1645	-63.54	-13	-50.54	-70.51	1.58	10.70	H
	2470	-58.48	-13	-45.48	-66.73	2.102	12.50	H
	3290	-57.50	-13	-44.50	-66.39	2.856	13.90	H
	1645	-62.81	-13	-49.81	-69.78	1.58	10.70	V
	2470	-54.44	-13	-41.44	-62.69	2.10	12.50	V
	3290	-57.35	-13	-44.35	-66.24	2.86	13.90	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-50.00	-13	-37.00	-60.21	3.03	13.24	H
	11376	-63.42	-13	-50.42	-72.87	3.56	13.01	H
	15180	-62.96	-13	-49.96	-72.48	3.92	13.44	H
	7584	-52.24	-13	-39.24	-62.45	3.03	13.24	V
	11376	-57.51	-13	-44.51	-66.96	3.56	13.01	V
	15180	-62.84	-13	-49.84	-72.36	3.92	13.44	V



ULCA_n30A-n66A (ANT2+0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n30 BW 10MHz Middle 1RB0,QPSK	4620	-63.42	-40	-23.42	-74.88	2.84	14.30	H
	6915	-63.25	-40	-23.25	-73.19	3.49	13.43	H
	9225	-60.79	-40	-20.79	-71.03	3.85	14.09	H
	4620	-61.98	-40	-21.98	-73.44	2.84	14.30	V
	6915	-63.10	-40	-23.10	-73.04	3.49	13.43	V
	9225	-60.86	-40	-20.86	-71.10	3.85	14.09	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-66.67	-13	-53.67	-77.41	2.604	13.34	H
	5175	-62.32	-13	-49.32	-72.83	3.011	13.52	H
	6930	-63.15	-13	-50.15	-73.35	3.271	13.47	H
	3450	-67.42	-13	-54.42	-78.16	2.604	13.34	V
	5175	-62.48	-13	-49.48	-72.99	3.011	13.52	V
	6930	-63.21	-13	-50.21	-73.41	3.271	13.47	V

ULCA_n30A-n77A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n30 BW 10MHz Middle 1RB0,QPSK	4616	-66.67	-40	-26.67	-78.13	2.84	14.30	H
	6912	-63.33	-40	-23.33	-73.27	3.49	13.43	H
	9222	-61.32	-40	-21.32	-71.56	3.85	14.09	H
	4616	-66.25	-40	-26.25	-77.71	2.84	14.30	V
	6912	-63.57	-40	-23.57	-73.51	3.49	13.43	V
	9222	-61.46	-40	-21.46	-71.70	3.85	14.09	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-61.70	-13	-48.70	-71.91	3.03	13.24	H
	11392	-60.37	-13	-47.37	-69.82	3.56	13.01	H
	15186	-59.91	-13	-46.91	-69.43	3.92	13.44	H
	7584	-61.45	-13	-48.45	-71.66	3.03	13.24	V
	11392	-60.12	-13	-47.12	-69.57	3.56	13.01	V
	15186	-59.80	-13	-46.80	-69.32	3.92	13.44	V



ULCA_n41A-n48A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n41 BW 100MHz Middle 1RB0,QPSK	5092	-65.21	-25	-40.21	-75.42	3.03	13.24	H
	7626	-38.97	-25	-13.97	-48.42	3.56	13.01	H
	10188	-60.77	-25	-35.77	-70.29	3.92	13.44	H
	12722	-56.15	-25	-31.15	-66.07	4.44	14.36	H
	5092	-65.06	-25	-40.06	-75.27	3.03	13.24	V
	7626	-38.18	-25	-13.18	-47.63	3.56	13.01	V
	10188	-61.19	-25	-36.19	-70.71	3.92	13.44	V
NR n48 BW 40MHz Middle 1RB0,QPSK	7206	-53.20	-40	-13.20	-64.66	2.84	14.30	H
	10818	-53.89	-40	-13.89	-63.83	3.49	13.43	H
	14430	-58.40	-40	-18.40	-68.64	3.85	14.09	H
	7206	-58.23	-40	-18.23	-69.69	2.84	14.30	V
	10818	-51.27	-40	-11.27	-61.21	3.49	13.43	V
	14430	-58.91	-40	-18.91	-69.15	3.85	14.09	V

ULCA_n41A-n66A (ANT2+0)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n41 BW 100MHz Middle 1RB0,QPSK	5085	-61.59	-25	-36.59	-71.80	3.03	13.24	H
	7635	-57.24	-25	-32.24	-66.69	3.56	13.01	H
	10185	-61.04	-25	-36.04	-70.56	3.92	13.44	H
	5085	-56.87	-25	-31.87	-67.08	3.03	13.24	V
	7635	-47.24	-25	-22.24	-56.69	3.56	13.01	V
	10185	-61.20	-25	-36.20	-70.72	3.92	13.44	V
NR n66 BW 20MHz Middle 1RB0,QPSK	3450	-64.35	-13	-51.35	-75.09	2.604	13.34	H
	5175	-56.51	-13	-43.51	-67.02	3.011	13.52	H
	6915	-63.25	-13	-50.25	-73.45	3.271	13.47	H
	3450	-65.59	-13	-52.59	-76.33	2.604	13.34	V
	5175	-52.05	-13	-39.05	-62.56	3.011	13.52	V
	6915	-63.37	-13	-50.37	-73.57	3.271	13.47	V



ULCA_n41A-n71A (ANT2+0)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n41 BW 100MHz Middle 1RB0,QPSK	5100	-62.54	-25	-37.54	-72.75	3.03	13.24	H
	7650	-61.30	-25	-36.30	-70.75	3.56	13.01	H
	10185	-60.80	-25	-35.80	-70.32	3.92	13.44	H
	5100	-62.97	-25	-37.97	-73.18	3.03	13.24	V
	7650	-61.32	-25	-36.32	-70.77	3.56	13.01	V
	10185	-61.28	-25	-36.28	-70.80	3.92	13.44	V
NR n71 BW 20MHz Middle 1RB0,QPSK	1344	-65.76	-13	-52.76	-67.51	1.02	4.92	H
	2014	-59.98	-13	-46.98	-61.95	1.27	5.39	H
	2686	-56.46	-13	-43.46	-59.39	1.49	6.57	H
	1344	-65.30	-13	-52.30	-67.05	1.02	4.92	V
	2014	-59.09	-13	-46.09	-61.06	1.27	5.39	V
	2686	-56.06	-13	-43.06	-58.99	1.49	6.57	V

ULCA_n41A-n77A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n41 BW 100MHz Middle 1RB0,QPSK	5092	-65.27	-25	-40.27	-75.48	3.03	13.24	H
	7626	-59.75	-25	-34.75	-69.20	3.56	13.01	H
	10188	-60.73	-25	-35.73	-70.25	3.92	13.44	H
	5092	-65.65	-25	-40.65	-75.86	3.03	13.24	V
	7626	-54.36	-25	-29.36	-63.81	3.56	13.01	V
	10188	-61.33	-25	-36.33	-70.85	3.92	13.44	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-61.62	-13	-48.62	-71.83	3.03	13.24	H
	11392	-60.49	-13	-47.49	-69.94	3.56	13.01	H
	15186	-60.10	-13	-47.10	-69.62	3.92	13.44	H
	7584	-61.91	-13	-48.91	-72.12	3.03	13.24	V
	11392	-60.88	-13	-47.88	-70.33	3.56	13.01	V
	15186	-60.67	-13	-47.67	-70.19	3.92	13.44	V



ULCA_n48A-n66A (ANT6+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n48 BW 40MHz Middle 1RB0,QPSK	7212	-65.30	-40	-25.30	-76.76	2.84	14.30	H
	10824	-63.02	-40	-23.02	-72.96	3.49	13.43	H
	14424	-61.49	-40	-21.49	-71.73	3.85	14.09	H
	7212	-65.04	-40	-25.04	-76.50	2.84	14.30	V
	10824	-62.90	-40	-22.90	-72.84	3.49	13.43	V
	14424	-61.44	-40	-21.44	-71.68	3.85	14.09	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-39.84	-13	-26.84	-50.58	2.604	13.34	H
	5175	-53.56	-13	-40.56	-64.07	3.011	13.52	H
	6915	-53.33	-13	-40.33	-63.53	3.271	13.47	H
	3450	-40.82	-13	-27.82	-51.56	2.604	13.34	V
	5175	-53.79	-13	-40.79	-64.30	3.011	13.52	V
	6915	-53.41	-13	-40.41	-63.61	3.271	13.47	V

ULCA_n48A-n70A (ANT6+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n48 BW 40MHz Middle 1RB0,QPSK	7212	-64.76	-40	-24.76	-76.22	2.84	14.30	H
	10824	-62.90	-40	-22.90	-72.84	3.49	13.43	H
	14424	-60.78	-40	-20.78	-71.02	3.85	14.09	H
	7212	-65.28	-40	-25.28	-76.74	2.84	14.30	V
	10824	-63.17	-40	-23.17	-73.11	3.49	13.43	V
	14424	-60.77	-40	-20.77	-71.01	3.85	14.09	V
NR n70 BW 15MHz Middle 1RB0,QPSK	3390	-56.92	-13	-43.92	-67.66	2.604	13.34	H
	5085	-53.05	-13	-40.05	-63.56	3.011	13.52	H
	6780	-53.72	-13	-40.72	-63.92	3.271	13.47	H
	3390	-57.01	-13	-44.01	-67.75	2.604	13.34	V
	5085	-52.92	-13	-39.92	-63.43	3.011	13.52	V
	6780	-53.57	-13	-40.57	-63.77	3.271	13.47	V



ULCA_n48A-n71A (ANT6+0)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n48 BW 40MHz Middle 1RB0,QPSK	7212	-65.26	-40	-25.26	-76.72	2.84	14.30	H
	10824	-63.05	-40	-23.05	-72.99	3.49	13.43	H
	14424	-61.25	-40	-21.25	-71.49	3.85	14.09	H
	7212	-65.22	-40	-25.22	-76.68	2.84	14.30	V
	10824	-63.00	-40	-23.00	-72.94	3.49	13.43	V
	14424	-61.26	-40	-21.26	-71.50	3.85	14.09	V
NR n71 BW 20MHz Middle 1RB0,QPSK	1345	-65.84	-13	-52.84	-67.59	1.02	4.92	H
	2015	-60.19	-13	-47.19	-62.16	1.27	5.39	H
	2685	-57.06	-13	-44.06	-59.99	1.49	6.57	H
	1345	-65.46	-13	-52.46	-67.21	1.02	4.92	V
	2015	-59.77	-13	-46.77	-61.74	1.27	5.39	V
	2685	-56.91	-13	-43.91	-59.84	1.49	6.57	V

ULCA_n66A-n71A (ANT2+0)								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 BW 40MHz Middle 1RB0,QPSK	3450	-56.59	-13	-43.59	-67.33	2.604	13.34	H
	5175	-53.45	-13	-40.45	-63.96	3.011	13.52	H
	6915	-53.33	-13	-40.33	-63.53	3.271	13.47	H
	3450	-56.82	-13	-43.82	-69.08	2.64	14.90	V
	5175	-53.68	-13	-40.68	-65.54	2.94	14.80	V
	6915	-53.43	-13	-40.43	-63.20	3.39	13.16	V
NR n71 BW 20MHz Middle 1RB0,QPSK	1344	-65.99	-13	-52.99	-67.74	1.02	4.92	H
	2014	-59.96	-13	-46.96	-61.93	1.27	5.39	H
	2686	-57.19	-13	-44.19	-60.12	1.49	6.57	H
	1344	-65.41	-13	-52.41	-67.16	1.02	4.92	V
	2014	-59.21	-13	-46.21	-61.18	1.27	5.39	V
	2686	-56.67	-13	-43.67	-59.60	1.49	6.57	V



ULCA_n66A-n77A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 BW 40MHz Middle 1RB0,QPSK	3435	-41.18	-13	-28.18	-51.92	2.604	13.34	H
	5175	-53.55	-13	-40.55	-64.06	3.011	13.52	H
	6915	-53.44	-13	-40.44	-63.64	3.271	13.47	H
	3435	-39.77	-13	-26.77	-50.51	2.604	13.34	V
	5175	-53.59	-13	-40.59	-64.10	3.011	13.52	V
	6915	-53.32	-13	-40.32	-63.52	3.271	13.47	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7583	-50.31	-13	-37.31	-60.52	3.03	13.24	H
	11367	-61.66	-13	-48.66	-71.11	3.56	13.01	H
	15184	-63.42	-13	-50.42	-72.94	3.92	13.44	H
	7583	-50.26	-13	-37.26	-60.47	3.03	13.24	V
	11367	-60.32	-13	-47.32	-69.77	3.56	13.01	V
	15184	-63.31	-13	-50.31	-72.83	3.92	13.44	V

ULCA_n70A-n71A (ANT2+0)								
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n70 BW 15MHz Middle 1RB0,QPSK	3390	-47.82	-13	-34.82	-58.56	2.604	13.34	H
	5085	-53.60	-13	-40.60	-64.11	3.011	13.52	H
	6780	-52.79	-13	-39.79	-62.99	3.271	13.47	H
	3390	-56.36	-13	-43.36	-68.62	2.64	14.90	V
	5085	-53.90	-13	-40.90	-65.76	2.94	14.80	V
	6780	-53.07	-13	-40.07	-62.84	3.39	13.16	V
NR n71 BW 20MHz Middle 1RB0,QPSK	1344	-65.78	-13	-52.78	-67.53	1.02	4.92	H
	2014	-60.31	-13	-47.31	-62.28	1.27	5.39	H
	2686	-57.11	-13	-44.11	-60.04	1.49	6.57	H
	1344	-64.83	-13	-51.83	-66.58	1.02	4.92	V
	2014	-59.27	-13	-46.27	-61.24	1.27	5.39	V
	2686	-56.81	-13	-43.81	-59.74	1.49	6.57	V



ULCA_n70A-n77A (ANT2+6)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n70 BW 15MHz Middle 1RB0,QPSK	3390	-57.04	-13	-44.04	-67.78	2.604	13.34	H
	5085	-53.68	-13	-40.68	-64.19	3.011	13.52	H
	6780	-53.07	-13	-40.07	-63.27	3.271	13.47	H
	3390	-56.83	-13	-43.83	-69.09	2.64	14.90	V
	5085	-53.58	-13	-40.58	-65.44	2.94	14.80	V
	6780	-53.34	-13	-40.34	-63.11	3.39	13.16	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7583	-49.17	-13	-36.17	-59.38	3.03	13.24	H
	11378	-60.78	-13	-47.78	-70.23	3.56	13.01	H
	15184	-63.14	-13	-50.14	-72.66	3.92	13.44	H
	7583	-52.04	-13	-39.04	-62.25	3.03	13.24	V
	11378	-61.00	-13	-48.00	-70.45	3.56	13.01	V
	15184	-63.29	-13	-50.29	-72.81	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.