



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : 1+, ONEPLUS
MODEL NAME : CPH2583
FCC ID : 2ABZ2-AA550
STANDARD : 47 CFR Part 2, 22, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Sep. 25, 2023

We, Sporton International Inc. (ShenZhen), 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. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG382311K	Rev. 01	Initial issue of report	Oct. 20, 2023

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)	ERP (5G NR n5)	ERP < 7 Watt		
	§27.50(c)(10)	ERP (5G NR n71)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	EIRP (5G NR n2, n25) (5G NR n7, n41)	EIRP < 2Watt		
	§27.50(d)(4)	EIRP (5G NR n66)	EIRP < 1Watt		
	§27.50(j)(3)	EIRP (5G NR n77, n78)	EIRP < 1Watt		
-	§24.232(d) §27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	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)(5G NR n2, n25) (5G NR n66)(5G NR n71) (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	1
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41)	§27.53(m)(4)		
-	§2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2)	Conducted Spurious Emission (5G NR n5)(5G NR n2, n25) (5G NR n66)(5G NR n71) (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	1
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41)	< 55+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		
3.4	§2.1053 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2)	Radiated Spurious Emission (5G NR n5)(5G NR n2, n25) (5G NR n66)(5G NR n71) (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 11.23 dB at 10503.57 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41)	< 55+10log ₁₀ (P[Watts])		
Remark 1: The test items of inter band CA were cover by 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

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



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	1+, ONEPLUS
Model Name	CPH2583
FCC ID	2ABZ2-AA550
IMEI Code	Radiation: 865154060025854/865154060025847
HW Version	11
SW Version	OxygenOS V14.0
EUT Stage	Production Unit

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 n7 : 2500 MHz ~ 2570 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz; 5G NR n78: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz;
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz ~ 2200 MHz 5G NR n71: 617 MHz ~ 652 MHz 5G NR n77: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz; 5G NR n78: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz;
SCS	15kHz for FDD Band 30kHz for TDD Band



Uplink CA Bands	n2_n5A n2_n66A n2_n77A n5_n66A n5_n77A n5_n78A	n7_n77A n7_n78A n25_n41A n25_n66A n25_n71A n25_n77A	n41_n66A n41_n71A n66_n71A n66_n77A n71_n77A
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM		

Note: NR CA n5_n78A / n7_n78A are covered by n5_n77A & n7_n77A.

1.5 Modification of EUT

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

1.6 Testing Location

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24



1.8 Applicable Standards

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

- ♦ 47 CFR Part 2, 22, 24, 27
- ♦ 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 are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

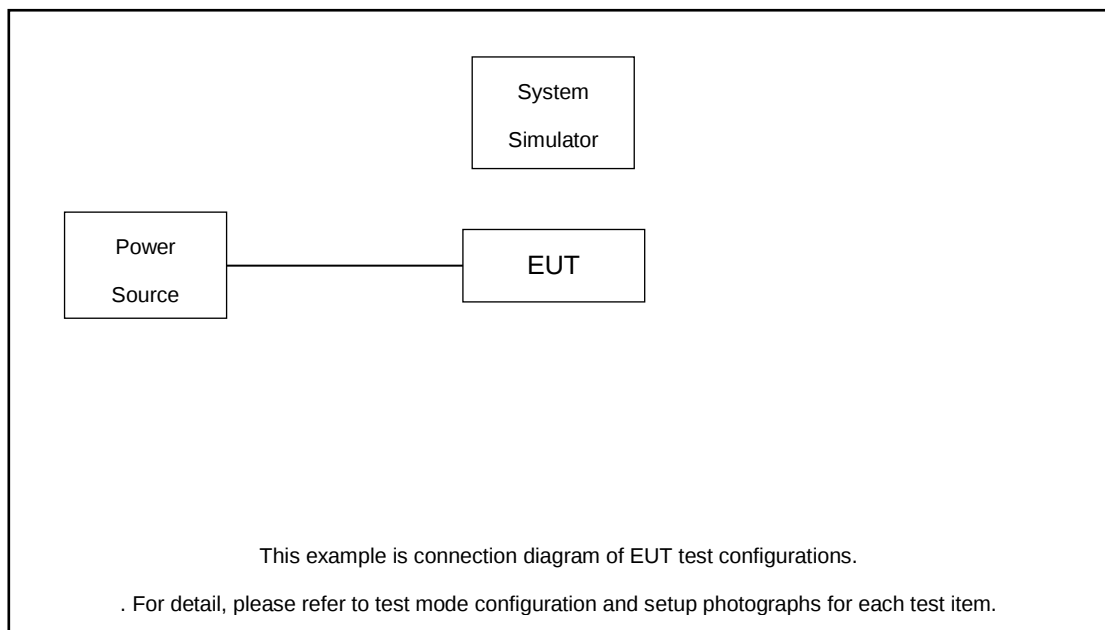
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	n2_N5A	Worst Case													v	v	v
	n2_n66A	Worst Case													v	v	v
	n5_n66A	Worst Case													v	v	v
	n25_n41A	Worst Case													v	v	v
	n25_n66A	Worst Case													v	v	v
	n25_n71A	Worst Case													v	v	v
	n41_n66A	Worst Case													v	v	v
	n41_n71A	Worst Case													v	v	v
	n66_n71A	Worst Case													v	v	v
	n2_n77A	Worst Case													v	v	v
	n5_n77A	Worst Case													v	v	v
	n7_n77A	Worst Case													v	v	v
	n25_n77A	Worst Case													v	v	v
	n66_n77A	Worst Case													v	v	v
	n71_n77A	Worst Case													v	v	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 = 7.78V ; Low Voltage =6.60V. ; High Voltage =8.96V																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

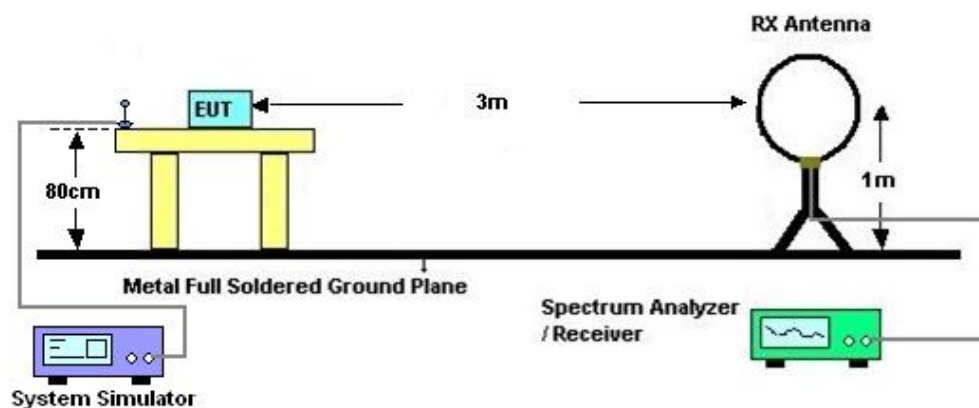
3 Radiated Test Items

3.1 Measuring Instruments

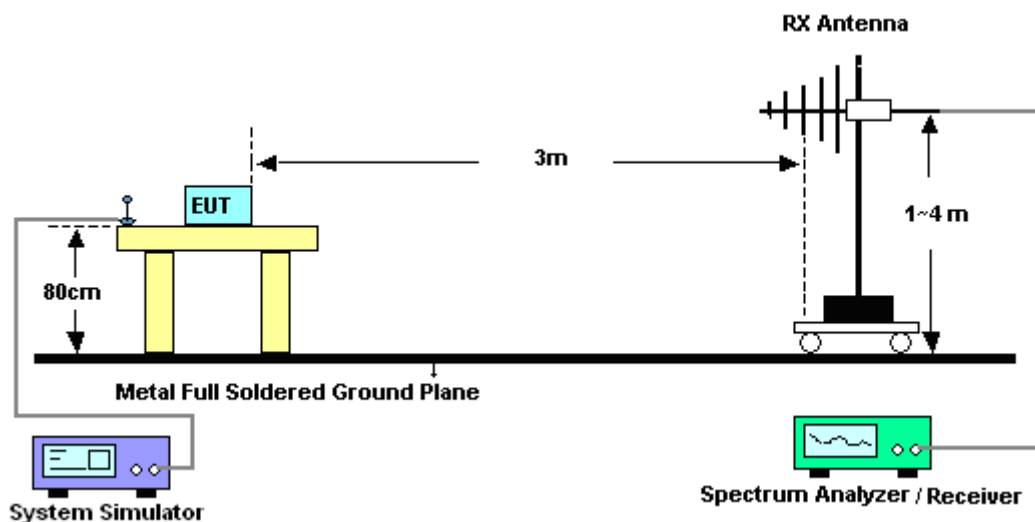
See list of measuring instruments of this test report.

3.2 Test Setup

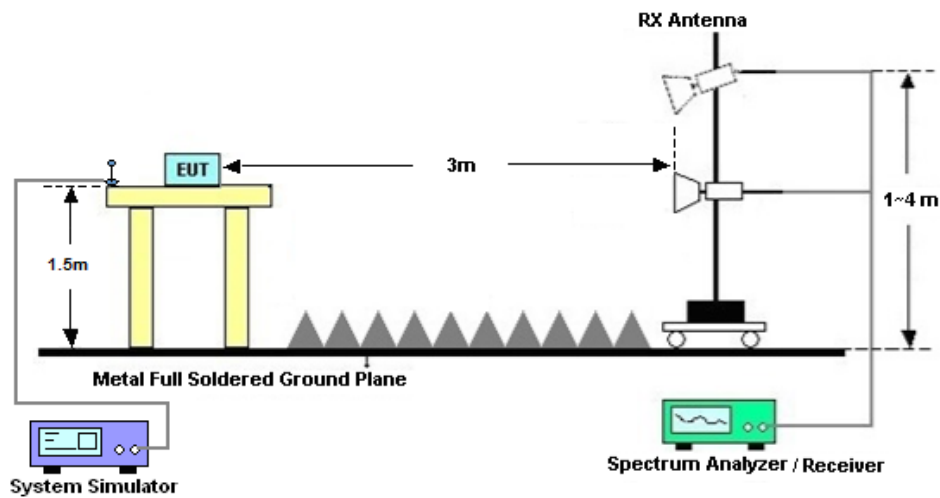
3.2.1 For radiated test below 30MHz



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 n7/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.

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.
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 26, 2022	Sep. 25, 2023	Dec. 25, 2023	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Sep. 25, 2023	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Sep. 25, 2023	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Sep. 28, 2021	Sep. 25, 2023	Sep. 27, 2023	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Sep. 25, 2023	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 08, 2023	Sep. 25, 2023	Apr. 07, 2024	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 04, 2023	Sep. 25, 2023	Apr. 03, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 19, 2022	Sep. 25, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 19, 2022	Sep. 25, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Sep. 25, 2023	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Nov. 10, 2022	Sep. 25, 2023	Nov. 09, 2023	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 25, 2023	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 25, 2023	NCR	Radiation (03CH01-SZ)

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% ($U = 2Uc(y)$)	2.48 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02 dB
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Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

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

ULCA_n2-n5A (ANT0+1)								
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 BW 20MHz Lowest 1RB0,QPSK	3701.5	-56.45	-13	-43.45	-63.21	5.82	12.58	H
	5552.25	-56.55	-13	-43.55	-62.27	7.28	13.00	H
	7403	-55.05	-13	-42.05	-58.21	8.32	11.48	H
	3701.5	-54.02	-13	-41.02	-60.78	5.82	12.58	V
	5552.25	-55.88	-13	-42.88	-61.60	7.28	13.00	V
	7403	-54.85	-13	-41.85	-58.01	8.32	11.48	V
NR n5 BW 100MHz Lowest 1RB0,QPSK	1650	-64.22	-13	-51.22	-67.45	3.98	9.36	H
	2475	-58.68	-13	-45.68	-62.23	4.85	10.55	H
	3300	-57.93	-13	-44.93	-62.86	5.50	12.58	H
	1650	-63.91	-13	-50.91	-67.14	3.98	9.36	V
	2475	-58.67	-13	-45.67	-62.22	4.85	10.55	V
	3300	-57.09	-13	-44.09	-62.02	5.50	12.58	V
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-56.42	-13	-43.42	-63.17	5.85	12.60	H
	5612.25	-56.29	-13	-43.29	-62.09	7.30	13.10	H
	7483	-55.28	-13	-42.28	-58.43	8.35	11.50	H
	3741.5	-53.99	-13	-40.99	-60.74	5.85	12.60	V
	5612.25	-55.52	-13	-42.52	-61.32	7.30	13.10	V
	7483	-55.14	-13	-42.14	-58.29	8.35	11.50	V
NR n5 BW 100MHz Middle 1RB0,QPSK	1654.5	-64.22	-13	-51.22	-67.47	4.00	9.40	H
	2481.75	-58.74	-13	-45.74	-62.31	4.88	10.60	H
	3309	-57.52	-13	-44.52	-62.45	5.52	12.60	H
	1654.5	-63.79	-13	-50.79	-67.04	4.00	9.40	V
	2481.75	-58.78	-13	-45.78	-62.35	4.88	10.60	V
	3309	-56.95	-13	-43.95	-61.88	5.52	12.60	V
NR n2 BW 20MHz Highest 1RB0,QPSK	3781.5	-55.98	-13	-42.98	-62.72	5.88	12.62	H
	5672.25	-56.42	-13	-43.42	-62.23	7.32	13.13	H
	7563	-55.40	-13	-42.40	-58.56	8.38	11.54	H
	3781.5	-53.94	-13	-40.94	-60.68	5.88	12.62	V
	5672.25	-56.03	-13	-43.03	-61.84	7.32	13.13	V
	7563	-55.00	-13	-42.00	-58.16	8.38	11.54	V
NR n2 BW 100MHz Highest 1RB0,QPSK	1660	-64.02	-13	-51.02	-67.19	4.10	9.42	H
	2490	-58.68	-13	-45.68	-62.26	4.90	10.63	H
	3320	-57.43	-13	-44.43	-62.35	5.55	12.62	H
	1660	-63.46	-13	-50.46	-66.63	4.10	9.42	V
	2490	-58.61	-13	-45.61	-62.19	4.90	10.63	V
	3320	-56.86	-13	-43.86	-61.78	5.55	12.62	V

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



ULCA_n2-n66A (ANT0+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 BW 20MHz Lowest 1RB0,QPSK	3701.5	-56.56	-13	-43.56	-63.32	5.82	12.58	H
	5552.25	-55.84	-13	-42.84	-61.56	7.28	13.00	H
	7403	-55.03	-13	-42.03	-58.19	8.32	11.48	H
	3701.5	-54.33	-13	-41.33	-61.09	5.82	12.58	V
	5552.25	-56.28	-13	-43.28	-62.00	7.28	13.00	V
	7403	-54.81	-13	-41.81	-57.97	8.32	11.48	V
NR n66 BW 100MHz Lowest 1RB0,QPSK	3421.4	-57.20	-13	-44.20	-64.08	5.60	12.48	H
	5132.1	-56.20	-13	-43.20	-61.88	7.10	12.78	H
	6842.8	-55.54	-13	-42.54	-58.93	8.38	11.77	H
	3421.4	-55.67	-13	-42.67	-62.55	5.60	12.48	V
	5132.1	-55.67	-13	-42.67	-61.35	7.10	12.78	V
	6842.8	-54.02	-13	-41.02	-57.41	8.38	11.77	V
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-56.64	-13	-43.64	-63.39	5.85	12.60	H
	5612.25	-54.06	-13	-41.06	-59.86	7.30	13.10	H
	7483	-55.66	-13	-42.66	-58.81	8.35	11.50	H
	3741.5	-53.85	-13	-40.85	-60.60	5.85	12.60	V
	5612.25	-54.57	-13	-41.57	-60.37	7.30	13.10	V
	7483	-55.40	-13	-42.40	-58.55	8.35	11.50	V
NR n66 BW 100MHz Middle 1RB0,QPSK	3452.5	-56.61	-13	-43.61	-63.46	5.65	12.50	H
	5178.74	-56.45	-13	-43.45	-62.12	7.13	12.80	H
	6905	-56.04	-13	-43.04	-59.44	8.40	11.80	H
	3452.5	-56.61	-13	-43.61	-63.46	5.65	12.50	V
	5178.74	-56.01	-13	-43.01	-61.68	7.13	12.80	V
	6905	-54.70	-13	-41.70	-58.10	8.40	11.80	V
NR n2 BW 20MHz Highest 1RB0,QPSK	3781.5	-55.92	-13	-42.92	-62.66	5.88	12.62	H
	5672.25	-55.00	-13	-42.00	-60.81	7.32	13.13	H
	7563	-55.51	-13	-42.51	-58.67	8.38	11.54	H
	3781	-54.63	-13	-41.63	-61.37	5.88	12.62	V
	5672.25	-56.26	-13	-43.26	-62.07	7.32	13.13	V
	7563	-56.09	-13	-43.09	-59.25	8.38	11.54	V
NR n66 BW 100MHz Highest 1RB0,QPSK	3480	-57.01	-13	-44.01	-63.85	5.68	12.52	H
	5222.1	-56.81	-13	-43.81	-62.48	7.15	12.82	H
	6962.8	-55.55	-13	-42.55	-58.98	8.42	11.85	H
	3481.4	-55.63	-13	-42.63	-62.47	5.68	12.52	V
	5222.1	-56.38	-13	-43.38	-62.05	7.15	12.82	V
	6962.8	-54.71	-13	-41.71	-58.14	8.42	11.85	V

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



ULCA_n5-n66A (ANT0+5)								
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 n5 BW 20MHz Lowest 1RB0,QPSK	1650	-64.27	-13	-51.27	-67.50	3.98	9.36	H
	2475	-56.50	-13	-43.50	-60.05	4.85	10.55	H
	3300	-57.17	-13	-44.17	-62.10	5.50	12.58	H
	1650	-63.86	-13	-50.86	-67.09	3.98	9.36	V
	2475	-56.14	-13	-43.14	-59.69	4.85	10.55	V
	3300	-56.13	-13	-43.13	-61.06	5.50	12.58	V
NR n66 BW 100MHz Lowest 1RB0,QPSK	3421.4	-56.99	-13	-43.99	-63.87	5.60	12.48	H
	5132.1	-56.01	-13	-43.01	-61.69	7.10	12.78	H
	6842.8	-55.46	-13	-42.46	-58.85	8.38	11.77	H
	3421.4	-55.52	-13	-42.52	-62.40	5.60	12.48	V
	5132.1	-55.33	-13	-42.33	-61.01	7.10	12.78	V
	6842.8	-53.82	-13	-40.82	-57.21	8.38	11.77	V
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.5	-64.23	-13	-51.23	-67.48	4.00	9.40	H
	2481.75	-54.64	-13	-41.64	-58.21	4.88	10.60	H
	3309	-57.39	-13	-44.39	-62.32	5.52	12.60	H
	1654.5	-63.78	-13	-50.78	-67.03	4.00	9.40	V
	2481.75	-54.71	-13	-41.71	-58.28	4.88	10.60	V
	3309	-56.77	-13	-43.77	-61.70	5.52	12.60	V
NR n66 BW 100MHz Middle 1RB0,QPSK	3452.5	-56.88	-13	-43.88	-63.73	5.65	12.50	H
	5178.74	-56.33	-13	-43.33	-62.00	7.13	12.80	H
	6905	-55.77	-13	-42.77	-59.17	8.40	11.80	H
	3452.5	-56.71	-13	-43.71	-63.56	5.65	12.50	V
	5178.74	-55.98	-13	-42.98	-61.65	7.13	12.80	V
	6905	-54.29	-13	-41.29	-57.69	8.40	11.80	V
NR n5 BW 20MHz Highest 1RB0,QPSK	1660	-64.54	-13	-51.54	-67.71	4.10	9.42	H
	2490	-57.47	-13	-44.47	-61.05	4.90	10.63	H
	3320	-57.12	-13	-44.12	-62.04	5.55	12.62	H
	1660	-63.94	-13	-50.94	-67.11	4.10	9.42	V
	2490	-57.60	-13	-44.60	-61.18	4.90	10.63	V
	3320	-56.31	-13	-43.31	-61.23	5.55	12.62	V
NR n66 BW 100MHz Highest 1RB0,QPSK	3481.4	-56.48	-13	-43.48	-63.32	5.68	12.52	H
	5222.1	-56.37	-13	-43.37	-62.04	7.15	12.82	H
	6962.8	-55.50	-13	-42.50	-58.93	8.42	11.85	H
	3481.4	-55.12	-13	-42.12	-61.96	5.68	12.52	V
	5222.1	-55.88	-13	-42.88	-61.55	7.15	12.82	V
	6962.8	-54.96	-13	-41.96	-58.39	8.42	11.85	V

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



ULCA_n25-n41A (ANT0+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 20MHz Lowest 1RB0,QPSK	3701	-56.91	-13	-43.91	-63.67	5.82	12.58	H
	5551.5	-56.77	-13	-43.77	-62.49	7.28	13.00	H
	7402	-53.95	-13	-40.95	-57.11	8.32	11.48	H
	3701	-55.10	-13	-42.10	-61.86	5.82	12.58	V
	5551.5	-56.26	-13	-43.26	-61.98	7.28	13.00	V
	7402	-53.82	-13	-40.82	-56.98	8.32	11.48	V
NR n41 BW 100MHz Lowest 1RB0,QPSK	4994.80	-58.01	-25	-33.01	-63.57	7.12	12.68	H
	7492.20	-54.80	-25	-29.80	-58.13	8.26	11.59	H
	9989.60	-53.64	-25	-28.64	-55.17	10.45	11.98	H
	4994.80	-56.36	-25	-31.36	-61.92	7.12	12.68	V
	7492.20	-55.00	-25	-30.00	-58.33	8.26	11.59	V
	9989.60	-53.08	-25	-28.08	-54.61	10.45	11.98	V
NR n25 BW 20MHz Middle 1RB0,QPSK	3701	-57.29	-13	-44.29	-64.04	5.85	12.60	H
	5551.5	-57.17	-13	-44.17	-62.97	7.30	13.10	H
	7402	-54.25	-13	-41.25	-57.40	8.35	11.50	H
	3701	-55.09	-13	-42.09	-61.84	5.85	12.60	V
	5551.5	-56.33	-13	-43.33	-62.13	7.30	13.10	V
	7402	-54.17	-13	-41.17	-57.32	8.35	11.50	V
NR n41 BW 100MHz Middle 1RB0,QPSK	5089.00	-56.77	-25	-31.77	-62.33	7.14	12.70	H
	7633.50	-55.38	-25	-30.38	-58.68	8.30	11.60	H
	10178.00	-52.47	-25	-27.47	-53.99	10.48	12.00	H
	5089.00	-56.08	-25	-31.08	-61.64	7.14	12.70	V
	7633.50	-54.42	-25	-29.42	-57.72	8.30	11.60	V
	10178.00	-50.78	-25	-25.78	-52.30	10.48	12.00	V
NR n25 BW 20MHz Highest 1RB0,QPSK	3751	-57.50	-13	-44.50	-64.24	5.88	12.62	H
	5626.5	-56.97	-13	-43.97	-62.78	7.32	13.13	H
	7502	-54.96	-13	-41.96	-58.12	8.38	11.54	H
	3751	-54.63	-13	-41.63	-61.37	5.88	12.62	V
	5626.5	-56.72	-13	-43.72	-62.53	7.32	13.13	V
	7502	-54.49	-13	-41.49	-57.65	8.38	11.54	V
NR n41 BW 100MHz Highest 1RB0,QPSK	5182.80	-57.02	-25	-32.02	-62.58	7.16	12.72	H
	7774.20	-55.04	-25	-30.04	-58.34	8.33	11.63	H
	10365.60	-52.26	-25	-27.26	-53.86	10.50	12.10	H
	5182.80	-56.62	-25	-31.62	-62.18	7.16	12.72	V
	7774.20	-51.47	-25	-26.47	-54.77	8.33	11.63	V
	10365.60	-50.36	-25	-25.36	-51.96	10.50	12.10	V

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



ULCA_n25-n66A (ANT0+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 20MHz Lowest 1RB0,QPSK	3701	-56.92	-13	-43.92	-63.68	5.82	12.58	H
	5551.5	-56.98	-13	-43.98	-62.70	7.28	13.00	H
	7402	-54.39	-13	-41.39	-57.55	8.32	11.48	H
	3701	-54.96	-13	-41.96	-61.72	5.82	12.58	V
	5551.5	-56.39	-13	-43.39	-62.11	7.28	13.00	V
	7402	-53.37	-13	-40.37	-56.53	8.32	11.48	V
NR n66 BW 100MHz Lowest 1RB0,QPSK	3421.4	-59.32	-13	-46.32	-66.20	5.60	12.48	H
	5132.1	-57.02	-13	-44.02	-62.70	7.10	12.78	H
	6842.8	-55.38	-13	-42.38	-58.77	8.38	11.77	H
	3421.4	-58.09	-13	-45.09	-64.97	5.60	12.48	V
	5132.1	-56.08	-13	-43.08	-61.76	7.10	12.78	V
	6842.8	-53.24	-13	-40.24	-56.63	8.38	11.77	V
NR n25 BW 20MHz Middle 1RB0,QPSK	3726	-57.20	-13	-44.20	-63.95	5.85	12.60	H
	5589	-56.81	-13	-43.81	-62.61	7.30	13.10	H
	7452	-54.74	-13	-41.74	-57.89	8.35	11.50	H
	3726	-54.64	-13	-41.64	-61.39	5.85	12.60	V
	5589	-56.12	-13	-43.12	-61.92	7.30	13.10	V
	7452	-54.93	-13	-41.93	-58.08	8.35	11.50	V
NR n66 BW 100MHz Middle 1RB0,QPSK	3452.5	-59.23	-13	-46.23	-66.08	5.65	12.50	H
	5178.74	-56.60	-13	-43.60	-62.27	7.13	12.80	H
	6905	-55.09	-13	-42.09	-58.49	8.40	11.80	H
	3452.5	-58.62	-13	-45.62	-65.47	5.65	12.50	V
	5178.74	-56.45	-13	-43.45	-62.12	7.13	12.80	V
	6905	-54.48	-13	-41.48	-57.88	8.40	11.80	V
NR n25 BW 20MHz Highest 1RB0,QPSK	3751	-57.62	-13	-44.62	-64.36	5.88	12.62	H
	5626.5	-57.03	-13	-44.03	-62.84	7.32	13.13	H
	7502	-54.88	-13	-41.88	-58.04	8.38	11.54	H
	3751	-54.79	-13	-41.79	-61.53	5.88	12.62	V
	5626.5	-56.18	-13	-43.18	-61.99	7.32	13.13	V
	7502	-54.67	-13	-41.67	-57.83	8.38	11.54	V
NR n66 BW 100MHz Highest 1RB0,QPSK	3481.4	-58.17	-13	-45.17	-65.01	5.68	12.52	H
	5220	-56.59	-13	-43.59	-62.26	7.15	12.82	H
	6962.8	-55.45	-13	-42.45	-58.88	8.42	11.85	H
	3481.4	-57.45	-13	-44.45	-64.29	5.68	12.52	V
	5222.1	-56.83	-13	-43.83	-62.50	7.15	12.82	V
	6962.8	-54.84	-13	-41.84	-58.27	8.42	11.85	V

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



ULCA_n25-n71A (ANT0+1)								
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 20MHz Lowest 1RB0,QPSK	3701	-57.83	-13	-44.83	-64.59	5.82	12.58	H
	5551.5	-57.22	-13	-44.22	-62.94	7.28	13.00	H
	7402	-54.55	-13	-41.55	-57.71	8.32	11.48	H
	3701	-55.47	-13	-42.47	-62.23	5.82	12.58	V
	5551.5	-56.34	-13	-43.34	-62.06	7.28	13.00	V
	7402	-54.67	-13	-41.67	-57.83	8.32	11.48	V
NR n71 BW 100MHz Lowest 1RB0,QPSK	1327	-65.81	-13	-52.81	-69.04	3.98	9.36	H
	1990.5	-61.18	-13	-48.18	-64.73	4.85	10.55	H
	2654	-60.53	-13	-47.53	-65.46	5.50	12.58	H
	1327	-65.14	-13	-52.14	-68.37	3.98	9.36	V
	1990.5	-61.54	-13	-48.54	-65.09	4.85	10.55	V
	2654	-59.93	-13	-46.93	-64.86	5.50	12.58	V
NR n25 BW 20MHz Middle 1RB0,QPSK	3726	-56.28	-13	-43.28	-63.03	5.85	12.60	H
	5589	-56.28	-13	-43.28	-62.08	7.30	13.10	H
	7452	-55.46	-13	-42.46	-58.61	8.35	11.50	H
	3726	-53.80	-13	-40.80	-60.55	5.85	12.60	V
	5589	-55.47	-13	-42.47	-61.27	7.30	13.10	V
	7452	-55.24	-13	-42.24	-58.39	8.35	11.50	V
NR n71 BW 100MHz Middle 1RB0,QPSK	1342	-64.81	-13	-51.81	-68.06	4.00	9.40	H
	2013	-59.55	-13	-46.55	-63.12	4.88	10.60	H
	2684	-59.00	-13	-46.00	-63.93	5.52	12.60	H
	1342	-63.91	-13	-50.91	-67.16	4.00	9.40	V
	2013	-59.82	-13	-46.82	-63.39	4.88	10.60	V
	2684	-58.55	-13	-45.55	-63.48	5.52	12.60	V
NR n25 BW 20MHz Highest 1RB0,QPSK	3751	-56.70	-13	-43.70	-63.44	5.88	12.62	H
	5626.5	-55.81	-13	-42.81	-61.62	7.32	13.13	H
	7502	-55.14	-13	-42.14	-58.30	8.38	11.54	H
	3751	-53.81	-13	-40.81	-60.55	5.88	12.62	V
	5626.5	-55.97	-13	-42.97	-61.78	7.32	13.13	V
	7502	-55.40	-13	-42.40	-58.56	8.38	11.54	V
NR n71 BW 100MHz Highest 1RB0,QPSK	1357	-64.83	-13	-51.83	-68.00	4.10	9.42	H
	2035.5	-59.29	-13	-46.29	-62.87	4.90	10.63	H
	2714	-58.84	-13	-45.84	-63.76	5.55	12.62	H
	1357	-63.79	-13	-50.79	-66.96	4.10	9.42	V
	2035.5	-59.89	-13	-46.89	-63.47	4.90	10.63	V
	2714	-58.45	-13	-45.45	-63.37	5.55	12.62	V

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



ULCA_n41-n66A (ANT6+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 20MHz Lowest 1RB0,QPSK	4994.80	-57.55	-25	-32.55	-63.11	7.12	12.68	H
	7492.20	-54.59	-25	-29.59	-57.92	8.26	11.59	H
	9989.60	-53.35	-25	-28.35	-54.88	10.45	11.98	H
	4994.80	-56.12	-25	-31.12	-61.68	7.12	12.68	V
	7492.20	-54.74	-25	-29.74	-58.07	8.26	11.59	V
	9989.60	-52.43	-25	-27.43	-53.96	10.45	11.98	V
NR n66 BW 100MHz Lowest 1RB0,QPSK	3421.4	-59.51	-13	-46.51	-66.39	5.60	12.48	H
	5132.1	-57.18	-13	-44.18	-62.86	7.10	12.78	H
	6842.8	-55.44	-13	-42.44	-58.83	8.38	11.77	H
	3421.4	-57.96	-13	-44.96	-64.84	5.60	12.48	V
	5132.1	-55.79	-13	-42.79	-61.47	7.10	12.78	V
	6842.8	-53.65	-13	-40.65	-57.04	8.38	11.77	V
NR n41 BW 20MHz Middle 1RB0,QPSK	5089.00	-56.52	-25	-31.52	-62.08	7.14	12.70	H
	7633.50	-54.71	-25	-29.71	-58.01	8.30	11.60	H
	10178.00	-51.59	-25	-26.59	-53.11	10.48	12.00	H
	5089.00	-55.37	-25	-30.37	-60.93	7.14	12.70	V
	7633.50	-53.74	-25	-28.74	-57.04	8.30	11.60	V
	10178.00	-50.80	-25	-25.80	-52.32	10.48	12.00	V
NR n66 BW 100MHz Middle 1RB0,QPSK	3452.5	-58.39	-13	-45.39	-65.24	5.65	12.50	H
	5178.74	-56.56	-13	-43.56	-62.23	7.13	12.80	H
	6905	-55.03	-13	-42.03	-58.43	8.40	11.80	H
	3452.5	-57.81	-13	-44.81	-64.66	5.65	12.50	V
	5178.74	-56.05	-13	-43.05	-61.72	7.13	12.80	V
	6905	-53.46	-13	-40.46	-56.86	8.40	11.80	V
NR n41 BW 20MHz Highest 1RB0,QPSK	5182.80	-56.43	-25	-31.43	-61.99	7.16	12.72	H
	7774.20	-55.19	-25	-30.19	-58.49	8.33	11.63	H
	10365.60	-51.98	-25	-26.98	-53.58	10.50	12.10	H
	5182.80	-55.99	-25	-30.99	-61.55	7.16	12.72	V
	7774.20	-51.42	-25	-26.42	-54.72	8.33	11.63	V
	10365.60	-50.30	-25	-25.30	-51.90	10.50	12.10	V
NR n66 BW 100MHz Highest 1RB0,QPSK	3481.4	-58.78	-13	-45.78	-65.62	5.68	12.52	H
	5222.1	-56.67	-13	-43.67	-62.34	7.15	12.82	H
	6962.8	-55.47	-13	-42.47	-58.90	8.42	11.85	H
	3481.4	-57.69	-13	-44.69	-64.53	5.68	12.52	V
	5222.1	-56.35	-13	-43.35	-62.02	7.15	12.82	V
	6962.8	-54.73	-13	-41.73	-58.16	8.42	11.85	V

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



ULCA_n41-n71A (ANT0+1)								
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 20MHz Lowest 1RB0,QPSK	4994.80	-57.55	-25	-32.55	-63.11	7.12	12.68	H
	7492.20	-54.64	-25	-29.64	-57.97	8.26	11.59	H
	9989.60	-53.22	-25	-28.22	-54.75	10.45	11.98	H
	4994.80	-56.18	-25	-31.18	-61.74	7.12	12.68	V
	7492.20	-53.98	-25	-28.98	-57.31	8.26	11.59	V
	9989.60	-52.60	-25	-27.60	-54.13	10.45	11.98	V
NR n71 BW 100MHz Lowest 1RB0,QPSK	1327	-65.18	-13	-52.18	-68.41	3.98	9.36	H
	1990.5	-60.39	-13	-47.39	-63.94	4.85	10.55	H
	2654	-59.16	-13	-46.16	-64.09	5.50	12.58	H
	1327	-64.13	-13	-51.13	-67.36	3.98	9.36	V
	1990.5	-60.71	-13	-47.71	-64.26	4.85	10.55	V
	2654	-58.17	-13	-45.17	-63.10	5.50	12.58	V
NR n41 BW 20MHz Middle 1RB0,QPSK	5089.00	-56.20	-25	-31.20	-61.76	7.14	12.70	H
	7633.50	-54.39	-25	-29.39	-57.69	8.30	11.60	H
	10178.00	-51.37	-25	-26.37	-52.89	10.48	12.00	H
	5089.00	-55.25	-25	-30.25	-60.81	7.14	12.70	V
	7633.50	-53.62	-25	-28.62	-56.92	8.30	11.60	V
	10178.00	-50.59	-25	-25.59	-52.11	10.48	12.00	V
NR n71 BW 100MHz Middle 1RB0,QPSK	1342	-64.69	-13	-51.69	-67.94	4.00	9.40	H
	2013	-60.16	-13	-47.16	-63.73	4.88	10.60	H
	2684	-59.29	-13	-46.29	-64.22	5.52	12.60	H
	1342	-64.16	-13	-51.16	-67.41	4.00	9.40	V
	2013	-60.48	-13	-47.48	-64.05	4.88	10.60	V
	2684	-58.24	-13	-45.24	-63.17	5.52	12.60	V
NR n41 BW 20MHz Highest 1RB0,QPSK	5182.80	-56.32	-25	-31.32	-61.88	7.16	12.72	H
	7774.20	-54.95	-25	-29.95	-58.25	8.33	11.63	H
	10365.60	-51.74	-25	-26.74	-53.34	10.50	12.10	H
	5182.80	-56.22	-25	-31.22	-61.78	7.16	12.72	V
	7774.20	-51.22	-25	-26.22	-54.52	8.33	11.63	V
	10365.60	-50.06	-25	-25.06	-51.66	10.50	12.10	V
NR n71 BW 100MHz Highest 1RB0,QPSK	1357	-65.21	-13	-52.21	-68.38	4.10	9.42	H
	2035.5	-60.41	-13	-47.41	-63.99	4.90	10.63	H
	2714	-58.49	-13	-45.49	-63.41	5.55	12.62	H
	1357	-63.97	-13	-50.97	-67.14	4.10	9.42	V
	2035.5	-60.55	-13	-47.55	-64.13	4.90	10.63	V
	2714	-58.09	-13	-45.09	-63.01	5.55	12.62	V

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



ULCA_n66-n71A (ANT0+1)								
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 20MHz Lowest 1RB0,QPSK	3421.4	-58.86	-13	-45.86	-65.74	5.60	12.48	H
	5132.1	-56.47	-13	-43.47	-62.15	7.10	12.78	H
	6852	-55.28	-13	-42.28	-58.67	8.38	11.77	H
	3421.4	-57.60	-13	-44.60	-64.48	5.60	12.48	V
	5132.1	-55.74	-13	-42.74	-61.42	7.10	12.78	V
	6840	-53.26	-13	-40.26	-56.65	8.38	11.77	V
NR n71 BW 100MHz Lowest 1RB0,QPSK	1327	-65.14	-13	-52.14	-68.37	3.98	9.36	H
	1990.5	-60.46	-13	-47.46	-64.01	4.85	10.55	H
	2654	-59.20	-13	-46.20	-64.13	5.50	12.58	H
	1327	-63.73	-13	-50.73	-66.96	3.98	9.36	V
	1990.5	-60.50	-13	-47.50	-64.05	4.85	10.55	V
	2654	-58.74	-13	-45.74	-63.67	5.50	12.58	V
NR n66 BW 20MHz Middle 1RB0,QPSK	3452.5	-59.02	-13	-46.02	-65.87	5.65	12.50	H
	5178.74	-56.92	-13	-43.92	-62.59	7.13	12.80	H
	6900	-55.34	-13	-42.34	-58.74	8.40	11.80	H
	3452.5	-58.45	-13	-45.45	-65.30	5.65	12.50	V
	5178.74	-56.11	-13	-43.11	-61.78	7.13	12.80	V
	6900	-54.01	-13	-41.01	-57.41	8.40	11.80	V
NR n71 BW 100MHz Middle 1RB0,QPSK	1342	-65.79	-13	-52.79	-69.04	4.00	9.40	H
	2013	-60.39	-13	-47.39	-63.96	4.88	10.60	H
	2684	-58.34	-13	-45.34	-63.27	5.52	12.60	H
	1342	-64.20	-13	-51.20	-67.45	4.00	9.40	V
	2013	-60.35	-13	-47.35	-63.92	4.88	10.60	V
	2684	-58.45	-13	-45.45	-63.38	5.52	12.60	V
NR n66 BW 20MHz Highest 1RB0,QPSK	3481.4	-58.31	-13	-45.31	-65.15	5.68	12.52	H
	5222.1	-56.50	-13	-43.50	-62.17	7.15	12.82	H
	6962.8	-55.19	-13	-42.19	-58.62	8.42	11.85	H
	3481.4	-56.85	-13	-43.85	-63.69	5.68	12.52	V
	5222.1	-56.35	-13	-43.35	-62.02	7.15	12.82	V
	6962.8	-54.57	-13	-41.57	-58.00	8.42	11.85	V
NR n71 BW 100MHz Highest 1RB0,QPSK	1357	-65.03	-13	-52.03	-68.20	4.10	9.42	H
	2035.5	-60.53	-13	-47.53	-64.11	4.90	10.63	H
	2714	-58.70	-13	-45.70	-63.62	5.55	12.62	H
	1357	-64.43	-13	-51.43	-67.60	4.10	9.42	V
	2035.5	-61.09	-13	-48.09	-64.67	4.90	10.63	V
	2714	-58.13	-13	-45.13	-63.05	5.55	12.62	V

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



<n77 under Part 27Q>:

ULCA_n2-n77A (ANT0+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 BW 20MHz Lowest 1RB0,QPSK	3701.5	-59.33	-13	-46.33	-66.09	5.82	12.58	H
	5552.25	-59.26	-13	-46.26	-64.98	7.28	13.00	H
	7403	-57.79	-13	-44.79	-60.95	8.32	11.48	H
	3701.5	-56.74	-13	-43.74	-63.50	5.82	12.58	V
	5552.25	-58.71	-13	-45.71	-64.43	7.28	13.00	V
	7403	-57.89	-13	-44.89	-61.05	8.32	11.48	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	6892.40	-57.77	-13	-44.77	-61.10	8.25	11.58	H
	10338.60	-41.43	-13	-28.43	-42.98	10.45	12.00	H
	13784.80	-54.59	-13	-41.59	-56.30	11.74	13.45	H
	6892.40	-55.52	-13	-42.52	-58.85	8.25	11.58	V
	10338.60	-40.92	-13	-27.92	-42.47	10.45	12.00	V
	13784.80	-55.77	-13	-42.77	-57.48	11.74	13.45	V
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-59.28	-13	-46.28	-66.03	5.85	12.60	H
	5612.25	-59.31	-13	-46.31	-65.11	7.30	13.10	H
	7483	-58.16	-13	-45.16	-61.31	8.35	11.50	H
	3741.5	-56.96	-13	-43.96	-63.71	5.85	12.60	V
	5612.25	-58.61	-13	-45.61	-64.41	7.30	13.10	V
	7483	-57.90	-13	-44.90	-61.05	8.35	11.50	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902.40	-55.14	-13	-42.14	-58.44	8.30	11.60	H
	10353.60	-43.19	-13	-30.19	-44.71	10.48	12.00	H
	13804.80	-54.48	-13	-41.48	-56.18	11.80	13.50	H
	6902.40	-53.36	-13	-40.36	-56.66	8.30	11.60	V
	10353.60	-41.76	-13	-28.76	-43.28	10.48	12.00	V
	13804.80	-55.85	-13	-42.85	-57.55	11.80	13.50	V
NR n2 BW 20MHz Highest 1RB0,QPSK	3781.5	-59.03	-13	-46.03	-65.77	5.88	12.62	H
	5672.25	-59.12	-13	-46.12	-64.93	7.32	13.13	H
	7563	-58.03	-13	-45.03	-61.19	8.38	11.54	H
	3781.5	-57.18	-13	-44.18	-63.92	5.88	12.62	V
	5672.25	-58.79	-13	-45.79	-64.60	7.32	13.13	V
	7563	-57.91	-13	-44.91	-61.07	8.38	11.54	V
NR n77 BW 100MHz Highest 1RB0,QPSK	6912.38	-57.10	-13	-44.10	-60.40	8.32	11.62	H
	10368.57	-44.78	-13	-31.78	-46.46	10.52	12.20	H
	13824.76	-54.60	-13	-41.60	-56.30	11.85	13.55	H
	6912.38	-54.93	-13	-41.93	-58.23	8.32	11.62	V
	10368.57	-41.08	-13	-28.08	-42.76	10.52	12.20	V
	13824.76	-55.76	-13	-42.76	-57.46	11.85	13.55	V

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



ULCA_n5-n77A (ANT1+12)								
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 n5 BW 20MHz Lowest 1RB0,QPSK	1650	-67.95	-13	-54.95	-71.18	3.98	9.36	H
	2475	-57.88	-13	-44.88	-61.43	4.85	10.55	H
	3300	-60.38	-13	-47.38	-65.31	5.50	12.58	H
	1650	-67.13	-13	-54.13	-70.36	3.98	9.36	V
	2475	-59.13	-13	-46.13	-62.68	4.85	10.55	V
	3300	-59.66	-13	-46.66	-64.59	5.50	12.58	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	6892.40	-58.02	-13	-45.02	-61.35	8.25	11.58	H
	10338.60	-56.59	-13	-43.59	-58.14	10.45	12.00	H
	13784.80	-54.11	-13	-41.11	-55.82	11.74	13.45	H
	6892.40	-56.94	-13	-43.94	-60.27	8.25	11.58	V
	10338.60	-54.82	-13	-41.82	-56.37	10.45	12.00	V
	13784.80	-55.28	-13	-42.28	-56.99	11.74	13.45	V
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.5	-67.82	-13	-54.82	-71.07	4.00	9.40	H
	2481.75	-58.00	-13	-45.00	-61.57	4.88	10.60	H
	3309	-60.53	-13	-47.53	-65.46	5.52	12.60	H
	1654.5	-67.14	-13	-54.14	-70.39	4.00	9.40	V
	2481.75	-56.44	-13	-43.44	-60.01	4.88	10.60	V
	3309	-59.76	-13	-46.76	-64.69	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902.40	-58.47	-13	-45.47	-61.77	8.30	11.60	H
	10353.60	-55.81	-13	-42.81	-57.33	10.48	12.00	H
	13804.80	-53.71	-13	-40.71	-55.41	11.80	13.50	H
	6902.40	-57.20	-13	-44.20	-60.50	8.30	11.60	V
	10353.60	-54.85	-13	-41.85	-56.37	10.48	12.00	V
	13804.80	-55.08	-13	-42.08	-56.78	11.80	13.50	V
NR n5 BW 20MHz Highest 1RB0,QPSK	1660	-67.79	-13	-54.79	-70.96	4.10	9.42	H
	2490	-57.93	-13	-44.93	-61.51	4.90	10.63	H
	3320	-60.46	-13	-47.46	-65.38	5.55	12.62	H
	1660	-67.09	-13	-54.09	-70.26	4.10	9.42	V
	2490	-57.09	-13	-44.09	-60.67	4.90	10.63	V
	3320	-59.91	-13	-46.91	-64.83	5.55	12.62	V
NR n77 BW 100MHz Highest 1RB0,QPSK	6912.38	-58.44	-13	-45.44	-61.74	8.32	11.62	H
	10368.57	-56.85	-13	-43.85	-58.53	10.52	12.20	H
	13824.76	-54.46	-13	-41.46	-56.16	11.85	13.55	H
	6912.38	-57.22	-13	-44.22	-60.52	8.32	11.62	V
	10368.57	-54.90	-13	-41.90	-56.58	10.52	12.20	V
	13824.76	-55.60	-13	-42.60	-57.30	11.85	13.55	V

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



ULCA_n7-n77A (ANT0+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 n7 BW 20MHz Lowest 1RB0,QPSK	5000.00	-60.86	-25	-35.86	-66.42	7.12	12.68	H
	7500.00	-58.07	-25	-33.07	-61.40	8.26	11.59	H
	10000.00	-57.49	-25	-32.49	-59.02	10.45	11.98	H
	5000.00	-59.20	-25	-34.20	-64.76	7.12	12.68	V
	7500.00	-58.30	-25	-33.30	-61.63	8.26	11.59	V
	10000.00	-56.55	-25	-31.55	-58.08	10.45	11.98	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	6892.40	-55.86	-13	-42.86	-59.19	8.25	11.58	H
	10338.60	-40.95	-13	-27.95	-42.50	10.45	12.00	H
	13784.80	-54.94	-13	-41.94	-56.65	11.74	13.45	H
	6892.40	-54.68	-13	-41.68	-58.01	8.25	11.58	V
	10338.60	-39.84	-13	-26.84	-41.39	10.45	12.00	V
	13784.80	-56.13	-13	-43.13	-57.84	11.74	13.45	V
NR n7 BW 20MHz Middle 1RB0,QPSK	5033.00	-60.25	-25	-35.25	-65.81	7.14	12.70	H
	7549.50	-58.41	-25	-33.41	-61.71	8.30	11.60	H
	10066.00	-57.44	-25	-32.44	-58.96	10.48	12.00	H
	5033.00	-58.99	-25	-33.99	-64.55	7.14	12.70	V
	7549.50	-58.04	-25	-33.04	-61.34	8.30	11.60	V
	10066.00	-56.58	-25	-31.58	-58.10	10.48	12.00	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902.40	-56.69	-13	-43.69	-59.99	8.30	11.60	H
	10353.60	-42.47	-13	-29.47	-43.99	10.48	12.00	H
	13804.80	-54.57	-13	-41.57	-56.27	11.80	13.50	H
	6902.40	-56.09	-13	-43.09	-59.39	8.30	11.60	V
	10353.60	-41.43	-13	-28.43	-42.95	10.48	12.00	V
	13804.80	-55.74	-13	-42.74	-57.44	11.80	13.50	V
NR n7 BW 20MHz Highest 1RB0,QPSK	5060.00	-59.70	-25	-34.70	-65.26	7.16	12.72	H
	7590.00	-58.79	-25	-33.79	-62.09	8.33	11.63	H
	10120.00	-56.38	-25	-31.38	-57.98	10.50	12.10	H
	5060.00	-58.50	-25	-33.50	-64.06	7.16	12.72	V
	7590.00	-58.44	-25	-33.44	-61.74	8.33	11.63	V
	10120.00	-55.60	-25	-30.60	-57.20	10.50	12.10	V
NR n77 BW 100MHz Highest 1RB0,QPSK	6912.38	-55.72	-13	-42.72	-59.02	8.32	11.62	H
	10368.57	-42.78	-13	-29.78	-44.46	10.52	12.20	H
	13824.76	-54.83	-13	-41.83	-56.53	11.85	13.55	H
	6912.38	-55.34	-13	-42.34	-58.64	8.32	11.62	V
	10368.57	-42.01	-13	-29.01	-43.69	10.52	12.20	V
	13824.76	-56.11	-13	-43.11	-57.81	11.85	13.55	V

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



ULCA_n25-n77A (ANT0+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 20MHz Lowest 1RB0,QPSK	3701	-59.73	-13	-46.73	-66.49	5.82	12.58	H
	5551.5	-59.65	-13	-46.65	-65.37	7.28	13.00	H
	7402	-58.50	-13	-45.50	-61.66	8.32	11.48	H
	3701	-57.36	-13	-44.36	-64.12	5.82	12.58	V
	5551.5	-59.10	-13	-46.10	-64.82	7.28	13.00	V
	7402	-58.61	-13	-45.61	-61.77	8.32	11.48	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	6892.40	-58.90	-13	-45.90	-62.23	8.25	11.58	H
	10338.60	-43.07	-13	-30.07	-44.62	10.45	12.00	H
	13784.80	-55.37	-13	-42.37	-57.08	11.74	13.45	H
	6892.40	-55.94	-13	-42.94	-59.27	8.25	11.58	V
	10338.60	-41.45	-13	-28.45	-43.00	10.45	12.00	V
	13784.80	-56.40	-13	-43.40	-58.11	11.74	13.45	V
NR n25 BW 20MHz Middle 1RB0,QPSK	3726	-59.26	-13	-46.26	-66.01	5.85	12.60	H
	5589	-59.33	-13	-46.33	-65.13	7.30	13.10	H
	7452	-59.35	-13	-46.35	-62.50	8.35	11.50	H
	3726	-57.13	-13	-44.13	-63.88	5.85	12.60	V
	5589	-58.69	-13	-45.69	-64.49	7.30	13.10	V
	7452	-58.69	-13	-45.69	-61.84	8.35	11.50	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902.40	-56.27	-13	-43.27	-59.57	8.30	11.60	H
	10353.60	-42.48	-13	-29.48	-44.00	10.48	12.00	H
	13804.80	-54.51	-13	-41.51	-56.21	11.80	13.50	H
	6902.40	-51.80	-13	-38.80	-55.10	8.30	11.60	V
	10353.60	-41.33	-13	-28.33	-42.85	10.48	12.00	V
	13804.80	-55.67	-13	-42.67	-57.37	11.80	13.50	V
NR n25 BW 20MHz Highest 1RB0,QPSK	3751	-59.81	-13	-46.81	-66.55	5.88	12.62	H
	5626.5	-59.45	-13	-46.45	-65.26	7.32	13.13	H
	7502	-58.47	-13	-45.47	-61.63	8.38	11.54	H
	3751	-57.15	-13	-44.15	-63.89	5.88	12.62	V
	5626.5	-58.96	-13	-45.96	-64.77	7.32	13.13	V
	7502	-58.54	-13	-45.54	-61.70	8.38	11.54	V
NR n77 BW 100MHz Highest 1RB0,QPSK	6912.38	-58.08	-13	-45.08	-61.38	8.32	11.62	H
	10368.57	-44.72	-13	-31.72	-46.40	10.52	12.20	H
	13824.76	-55.46	-13	-42.46	-57.16	11.85	13.55	H
	6912.38	-56.04	-13	-43.04	-59.34	8.32	11.62	V
	10368.57	-41.40	-13	-28.40	-43.08	10.52	12.20	V
	13824.76	-56.69	-13	-43.69	-58.39	11.85	13.55	V

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



ULCA_n66-n77A (ANT0+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 20MHz Lowest 1RB0,QPSK	3421.4	-56.64	-13	-43.64	-63.52	5.60	12.48	H
	5132.1	-56.48	-13	-43.48	-62.16	7.10	12.78	H
	6842.8	-59.27	-13	-46.27	-62.66	8.38	11.77	H
	3421.4	-56.40	-13	-43.40	-63.28	5.60	12.48	V
	5132.1	-55.78	-13	-42.78	-61.46	7.10	12.78	V
	6842.8	-57.71	-13	-44.71	-61.10	8.38	11.77	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	6892.40	-56.91	-13	-43.91	-60.24	8.25	11.58	H
	10338.60	-46.95	-13	-33.95	-48.50	10.45	12.00	H
	13784.80	-55.04	-13	-42.04	-56.75	11.74	13.45	H
	6892.40	-54.09	-13	-41.09	-57.42	8.25	11.58	V
	10338.60	-46.70	-13	-33.70	-48.25	10.45	12.00	V
	13784.80	-56.35	-13	-43.35	-58.06	11.74	13.45	V
NR n66 BW 20MHz Middle 1RB0,QPSK	3452.5	-55.40	-13	-42.40	-62.25	5.65	12.50	H
	5178.74	-56.72	-13	-43.72	-62.39	7.13	12.80	H
	6905	-58.93	-13	-45.93	-62.33	8.40	11.80	H
	3452.5	-55.64	-13	-42.64	-62.49	5.65	12.50	V
	5178.74	-56.39	-13	-43.39	-62.06	7.13	12.80	V
	6905	-57.69	-13	-44.69	-61.09	8.40	11.80	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902.40	-58.67	-13	-45.67	-61.97	8.30	11.60	H
	10353.60	-49.22	-13	-36.22	-50.74	10.48	12.00	H
	13804.80	-55.36	-13	-42.36	-57.06	11.80	13.50	H
	6902.40	-57.03	-13	-44.03	-60.33	8.30	11.60	V
	10353.60	-48.55	-13	-35.55	-50.07	10.48	12.00	V
	13804.80	-56.27	-13	-43.27	-57.97	11.80	13.50	V
NR n66 BW 20MHz Highest 1RB0,QPSK	3481.4	-55.27	-13	-42.27	-62.11	5.68	12.52	H
	5222.1	-56.57	-13	-43.57	-62.24	7.15	12.82	H
	6962.8	-58.41	-13	-45.41	-61.84	8.42	11.85	H
	3481.4	-55.24	-13	-42.24	-62.08	5.68	12.52	V
	5222.1	-56.40	-13	-43.40	-62.07	7.15	12.82	V
	6962.8	-58.08	-13	-45.08	-61.51	8.42	11.85	V
NR n77 BW 100MHz Highest 1RB0,QPSK	6912.38	-58.34	-13	-45.34	-61.64	8.32	11.62	H
	10368.57	-50.31	-13	-37.31	-51.99	10.52	12.20	H
	13824.76	-55.32	-13	-42.32	-57.02	11.85	13.55	H
	6912.38	-57.36	-13	-44.36	-60.66	8.32	11.62	V
	10368.57	-47.36	-13	-34.36	-49.04	10.52	12.20	V
	13824.76	-56.52	-13	-43.52	-58.22	11.85	13.55	V

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



ULCA_n71-n77A (ANT1+12)								
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 n71 BW 20MHz Lowest 1RB0,QPSK	1327	-61.89	-13	-48.89	-65.12	3.98	9.36	H
	1990.5	-60.82	-13	-47.82	-64.37	4.85	10.55	H
	2654	-57.97	-13	-44.97	-62.90	5.50	12.58	H
	1327	-60.89	-13	-47.89	-64.12	3.98	9.36	V
	1990.5	-60.99	-13	-47.99	-64.54	4.85	10.55	V
	2654	-57.83	-13	-44.83	-62.76	5.50	12.58	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	6892.40	-58.83	-13	-45.83	-62.16	8.25	11.58	H
	10338.60	-57.19	-13	-44.19	-58.74	10.45	12.00	H
	13784.80	-55.09	-13	-42.09	-56.80	11.74	13.45	H
	6892.40	-55.53	-13	-42.53	-58.86	8.25	11.58	V
	10338.60	-53.14	-13	-40.14	-54.69	10.45	12.00	V
	13784.80	-56.32	-13	-43.32	-58.03	11.74	13.45	V
NR n71 BW 20MHz Middle 1RB0,QPSK	1342	-62.22	-13	-49.22	-65.47	4.00	9.40	H
	2013	-60.96	-13	-47.96	-64.53	4.88	10.60	H
	2684	-59.28	-13	-46.28	-64.21	5.52	12.60	H
	1342	-61.01	-13	-48.01	-64.26	4.00	9.40	V
	2013	-61.01	-13	-48.01	-64.58	4.88	10.60	V
	2684	-58.68	-13	-45.68	-63.61	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902.40	-58.46	-13	-45.46	-61.76	8.30	11.60	H
	10353.60	-56.68	-13	-43.68	-58.20	10.48	12.00	H
	13804.80	-54.88	-13	-41.88	-56.58	11.80	13.50	H
	6902.40	-55.36	-13	-42.36	-58.66	8.30	11.60	V
	10353.60	-53.27	-13	-40.27	-54.79	10.48	12.00	V
	13804.80	-56.46	-13	-43.46	-58.16	11.80	13.50	V
NR n71 BW 20MHz Highest 1RB0,QPSK	1357	-62.05	-13	-49.05	-65.22	4.10	9.42	H
	2035.5	-60.44	-13	-47.44	-64.02	4.90	10.63	H
	2714	-59.38	-13	-46.38	-64.30	5.55	12.62	H
	1357	-60.91	-13	-47.91	-64.08	4.10	9.42	V
	2035.5	-60.49	-13	-47.49	-64.07	4.90	10.63	V
	2714	-58.93	-13	-45.93	-63.85	5.55	12.62	V
NR n77 BW 100MHz Highest 1RB0,QPSK	6912.38	-58.67	-13	-45.67	-61.97	8.32	11.62	H
	10368.57	-57.11	-13	-44.11	-58.79	10.52	12.20	H
	13824.76	-55.55	-13	-42.55	-57.25	11.85	13.55	H
	6912.38	-56.17	-13	-43.17	-59.47	8.32	11.62	V
	10368.57	-52.09	-13	-39.09	-53.77	10.52	12.20	V
	13824.76	-56.60	-13	-43.60	-58.30	11.85	13.55	V

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



<n77 under Part 270>:

ULCA_n2-n77A (ANT0+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 BW 20MHz Lowest 1RB0,QPSK	3701.5	-55.76	-13	-42.76	-62.52	5.82	12.58	H
	5552.25	-57.08	-13	-44.08	-62.80	7.28	13.00	H
	7402.4	-58.22	-13	-45.22	-61.38	8.32	11.48	H
	3701.5	-53.80	-13	-40.80	-60.56	5.82	12.58	V
	5552.25	-56.49	-13	-43.49	-62.21	7.28	13.00	V
	7402.4	-58.24	-13	-45.24	-61.40	8.32	11.48	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	7403.00	-58.22	-13	-45.22	-61.55	8.25	11.58	H
	11103.60	-53.13	-13	-40.13	-54.68	10.45	12.00	H
	14804.80	-53.47	-13	-40.47	-55.18	11.74	13.45	H
	7403.00	-58.41	-13	-45.41	-61.74	8.25	11.58	V
	11103.60	-48.00	-13	-35.00	-49.55	10.45	12.00	V
	14804.80	-53.26	-13	-40.26	-54.97	11.74	13.45	V
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-55.66	-13	-42.66	-62.41	5.85	12.60	H
	5612.25	-56.79	-13	-43.79	-62.59	7.30	13.10	H
	7483	-58.52	-13	-45.52	-61.67	8.35	11.50	H
	3741.5	-53.27	-13	-40.27	-60.02	5.85	12.60	V
	5612.25	-56.11	-13	-43.11	-61.91	7.30	13.10	V
	7483	-58.85	-13	-45.85	-62.00	8.35	11.50	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7582.36	-58.01	-13	-45.01	-61.31	8.30	11.60	H
	11373.54	-55.98	-13	-42.98	-57.50	10.48	12.00	H
	15164.72	-53.51	-13	-40.51	-55.21	11.80	13.50	H
	7582.36	-57.05	-13	-44.05	-60.35	8.30	11.60	V
	11373.54	-49.37	-13	-36.37	-50.89	10.48	12.00	V
	15164.72	-53.42	-13	-40.42	-55.12	11.80	13.50	V
NR n2 BW 20MHz Highest 1RB0,QPSK	3781.5	-56.38	-13	-43.38	-63.12	5.88	12.62	H
	5672.25	-56.82	-13	-43.82	-62.63	7.32	13.13	H
	7563	-57.73	-13	-44.73	-60.89	8.38	11.54	H
	3781.5	-54.48	-13	-41.48	-61.22	5.88	12.62	V
	5672.25	-56.72	-13	-43.72	-62.53	7.32	13.13	V
	7563	-58.60	-13	-45.60	-61.76	8.38	11.54	V
NR n77 BW 100MHz Highest 1RB0,QPSK	7762.40	-58.26	-13	-45.26	-61.56	8.32	11.62	H
	11643.60	-54.53	-13	-41.53	-56.21	10.52	12.20	H
	15524.80	-50.10	-13	-37.10	-51.80	11.85	13.55	H
	7762.40	-54.32	-13	-41.32	-57.62	8.32	11.62	V
	11643.60	-49.73	-13	-36.73	-51.41	10.52	12.20	V
	15524.80	-52.16	-13	-39.16	-53.86	11.85	13.55	V

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



ULCA_n5-n77A (ANT1+12)								
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 n5 BW 20MHz Lowest 1RB0,QPSK	1650	-62.55	-13	-49.55	-65.78	3.98	9.36	H
	2475	-53.83	-13	-40.83	-57.38	4.85	10.55	H
	3300	-55.50	-13	-42.50	-60.43	5.50	12.58	H
	1650	-61.98	-13	-48.98	-65.21	3.98	9.36	V
	2475	-54.89	-13	-41.89	-58.44	4.85	10.55	V
	3300	-55.10	-13	-42.10	-60.03	5.50	12.58	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	7402.40	-57.83	-13	-44.83	-61.16	8.25	11.58	H
	11103.60	-54.47	-13	-41.47	-56.02	10.45	12.00	H
	14804.80	-53.09	-13	-40.09	-54.80	11.74	13.45	H
	7402.40	-57.96	-13	-44.96	-61.29	8.25	11.58	V
	11103.60	-53.05	-13	-40.05	-54.60	10.45	12.00	V
	14804.80	-53.08	-13	-40.08	-54.79	11.74	13.45	V
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.5	-62.44	-13	-49.44	-65.69	4.00	9.40	H
	2481.75	-51.83	-13	-38.83	-55.40	4.88	10.60	H
	3309	-56.45	-13	-43.45	-61.38	5.52	12.60	H
	1654.5	-60.86	-13	-47.86	-64.11	4.00	9.40	V
	2481.75	-53.03	-13	-40.03	-56.60	4.88	10.60	V
	3309	-55.84	-13	-42.84	-60.77	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7582.36	-57.19	-13	-44.19	-60.49	8.30	11.60	H
	11373.54	-56.21	-13	-43.21	-57.73	10.48	12.00	H
	15164.72	-52.72	-13	-39.72	-54.42	11.80	13.50	H
	7582.36	-57.67	-13	-44.67	-60.97	8.30	11.60	V
	11373.54	-52.86	-13	-39.86	-54.38	10.48	12.00	V
	15164.72	-52.86	-13	-39.86	-54.56	11.80	13.50	V
NR n5 BW 20MHz Highest 1RB0,QPSK	1660	-62.49	-13	-49.49	-65.66	4.10	9.42	H
	2490	-52.23	-13	-39.23	-55.81	4.90	10.63	H
	3320	-56.17	-13	-43.17	-61.09	5.55	12.62	H
	1660	-61.84	-13	-48.84	-65.01	4.10	9.42	V
	2490	-54.30	-13	-41.30	-57.88	4.90	10.63	V
	3320	-55.86	-13	-42.86	-60.78	5.55	12.62	V
NR n77 BW 100MHz Highest 1RB0,QPSK	7762.40	-57.72	-13	-44.72	-61.02	8.32	11.62	H
	11643.60	-54.45	-13	-41.45	-56.13	10.52	12.20	H
	15524.80	-50.15	-13	-37.15	-51.85	11.85	13.55	H
	7762.40	-54.23	-13	-41.23	-57.53	8.32	11.62	V
	11643.60	-49.90	-13	-36.90	-51.58	10.52	12.20	V
	15524.80	-51.94	-13	-38.94	-53.64	11.85	13.55	V

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



ULCA_n7-n77A (ANT0+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 n7 BW 20MHz Lowest 1RB0,QPSK	5050.00	-60.11	-25	-35.11	-65.67	7.12	12.68	H
	7575.00	-58.24	-25	-33.24	-61.57	8.26	11.59	H
	10100.00	-57.07	-25	-32.07	-58.60	10.45	11.98	H
	5050.00	-58.93	-25	-33.93	-64.49	7.12	12.68	V
	7575.00	-58.41	-25	-33.41	-61.74	8.26	11.59	V
	10100.00	-56.32	-25	-31.32	-57.85	10.45	11.98	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	7402.40	-58.15	-13	-45.15	-61.48	8.25	11.58	H
	11103.60	-54.84	-13	-41.84	-56.39	10.45	12.00	H
	14804.80	-53.21	-13	-40.21	-54.92	11.74	13.45	H
	7402.40	-58.44	-13	-45.44	-61.77	8.25	11.58	V
	11103.60	-53.01	-13	-40.01	-54.56	10.45	12.00	V
	14804.80	-53.20	-13	-40.20	-54.91	11.74	13.45	V
NR n7 BW 20MHz Middle 1RB0,QPSK	5070.00	-60.26	-25	-35.26	-65.82	7.14	12.70	H
	7605.00	-57.76	-25	-32.76	-61.06	8.30	11.60	H
	10140.00	-57.02	-25	-32.02	-58.54	10.48	12.00	H
	5070.00	-59.50	-25	-34.50	-65.06	7.14	12.70	V
	7605.00	-57.50	-25	-32.50	-60.80	8.30	11.60	V
	10140.00	-56.02	-25	-31.02	-57.54	10.48	12.00	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7582.36	-57.69	-13	-44.69	-60.99	8.30	11.60	H
	11373.54	-56.06	-13	-43.06	-57.58	10.48	12.00	H
	15164.72	-52.46	-13	-39.46	-54.16	11.80	13.50	H
	7582.36	-57.66	-13	-44.66	-60.96	8.30	11.60	V
	11373.54	-51.86	-13	-38.86	-53.38	10.48	12.00	V
	15164.72	-53.10	-13	-40.10	-54.80	11.80	13.50	V
NR n7 BW 20MHz Highest 1RB0,QPSK	5090.00	-60.04	-25	-35.04	-65.60	7.16	12.72	H
	7635.00	-58.08	-25	-33.08	-61.38	8.33	11.63	H
	10180.00	-57.31	-25	-32.31	-58.91	10.50	12.10	H
	5090.00	-59.01	-25	-34.01	-64.57	7.16	12.72	V
	7635.00	-57.32	-25	-32.32	-60.62	8.33	11.63	V
	10180.00	-56.00	-25	-31.00	-57.60	10.50	12.10	V
NR n77 BW 100MHz Highest 1RB0,QPSK	7762.40	-57.67	-13	-44.67	-60.97	8.32	11.62	H
	11643.60	-54.51	-13	-41.51	-56.19	10.52	12.20	H
	15524.80	-49.95	-13	-36.95	-51.65	11.85	13.55	H
	7762.40	-54.24	-13	-41.24	-57.54	8.32	11.62	V
	11643.60	-51.37	-13	-38.37	-53.05	10.52	12.20	V
	15524.80	-52.03	-13	-39.03	-53.73	11.85	13.55	V

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



ULCA_n25-n77A (ANT0+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 20MHz Lowest 1RB0,QPSK	3701	-55.04	-13	-42.04	-61.80	5.82	12.58	H
	5551.5	-56.76	-13	-43.76	-62.48	7.28	13.00	H
	7402	-58.39	-13	-45.39	-61.55	8.32	11.48	H
	3701	-53.44	-13	-40.44	-60.20	5.82	12.58	V
	5551.5	-56.31	-13	-43.31	-62.03	7.28	13.00	V
	7402	-58.52	-13	-45.52	-61.68	8.32	11.48	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	7402.40	-57.97	-13	-44.97	-61.30	8.25	11.58	H
	11103.60	-54.53	-13	-41.53	-56.08	10.45	12.00	H
	14804.80	-52.73	-13	-39.73	-54.44	11.74	13.45	H
	7402.40	-57.89	-13	-44.89	-61.22	8.25	11.58	V
	11103.60	-51.84	-13	-38.84	-53.39	10.45	12.00	V
	14804.80	-52.68	-13	-39.68	-54.39	11.74	13.45	V
NR n25 BW 20MHz Middle 1RB0,QPSK	3726	-56.52	-13	-43.52	-63.27	5.85	12.60	H
	5589	-56.68	-13	-43.68	-62.48	7.30	13.10	H
	7452	-58.65	-13	-45.65	-61.80	8.35	11.50	H
	3726	-54.08	-13	-41.08	-60.83	5.85	12.60	V
	5589	-55.98	-13	-42.98	-61.78	7.30	13.10	V
	7452	-58.73	-13	-45.73	-61.88	8.35	11.50	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7582.36	-57.65	-13	-44.65	-60.95	8.30	11.60	H
	11373.54	-55.79	-13	-42.79	-57.31	10.48	12.00	H
	15164.72	-52.51	-13	-39.51	-54.21	11.80	13.50	H
	7582.36	-57.54	-13	-44.54	-60.84	8.30	11.60	V
	11373.54	-51.14	-13	-38.14	-52.66	10.48	12.00	V
	15164.72	-52.51	-13	-39.51	-54.21	11.80	13.50	V
NR n25 BW 20MHz Highest 1RB0,QPSK	3751	-56.97	-13	-43.97	-63.71	5.88	12.62	H
	5626.5	-56.89	-13	-43.89	-62.70	7.32	13.13	H
	7502	-58.26	-13	-45.26	-61.42	8.38	11.54	H
	3751	-54.17	-13	-41.17	-60.91	5.88	12.62	V
	5626.5	-56.48	-13	-43.48	-62.29	7.32	13.13	V
	7502	-58.32	-13	-45.32	-61.48	8.38	11.54	V
NR n77 BW 100MHz Highest 1RB0,QPSK	7762.40	-57.75	-13	-44.75	-61.05	8.32	11.62	H
	11643.60	-53.78	-13	-40.78	-55.46	10.52	12.20	H
	15524.80	-49.59	-13	-36.59	-51.29	11.85	13.55	H
	7762.40	-54.37	-13	-41.37	-57.67	8.32	11.62	V
	11643.60	-50.60	-13	-37.60	-52.28	10.52	12.20	V
	15524.80	-51.29	-13	-38.29	-52.99	11.85	13.55	V

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



ULCA_n66-n77A (ANT0+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 20MHz Lowest 1RB0,QPSK	3421.4	-57.40	-13	-44.40	-64.28	5.60	12.48	H
	5132.1	-56.70	-13	-43.70	-62.38	7.10	12.78	H
	6842.8	-59.29	-13	-46.29	-62.68	8.38	11.77	H
	3421.4	-56.70	-13	-43.70	-63.58	5.60	12.48	V
	5132.1	-55.93	-13	-42.93	-61.61	7.10	12.78	V
	6842.8	-57.39	-13	-44.39	-60.78	8.38	11.77	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	7402.40	-57.94	-13	-44.94	-61.27	8.25	11.58	H
	11103.60	-54.49	-13	-41.49	-56.04	10.45	12.00	H
	14804.80	-52.73	-13	-39.73	-54.44	11.74	13.45	H
	7402.40	-57.82	-13	-44.82	-61.15	8.25	11.58	V
	11103.60	-51.02	-13	-38.02	-52.57	10.45	12.00	V
	14804.80	-52.27	-13	-39.27	-53.98	11.74	13.45	V
NR n66 BW 20MHz Middle 1RB0,QPSK	3452.5	-56.59	-13	-43.59	-63.44	5.65	12.50	H
	5178.74	-56.62	-13	-43.62	-62.29	7.13	12.80	H
	6905	-58.52	-13	-45.52	-61.92	8.40	11.80	H
	3452.5	-56.83	-13	-43.83	-63.68	5.65	12.50	V
	5178.74	-56.35	-13	-43.35	-62.02	7.13	12.80	V
	6905	-57.51	-13	-44.51	-60.91	8.40	11.80	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7582.36	-57.60	-13	-44.60	-60.90	8.30	11.60	H
	11373.54	-55.75	-13	-42.75	-57.27	10.48	12.00	H
	15164.72	-52.50	-13	-39.50	-54.20	11.80	13.50	H
	7582.36	-57.85	-13	-44.85	-61.15	8.30	11.60	V
	11373.54	-50.48	-13	-37.48	-52.00	10.48	12.00	V
	15164.72	-52.50	-13	-39.50	-54.20	11.80	13.50	V
NR n66 BW 20MHz Highest 1RB0,QPSK	3481.4	-56.39	-13	-43.39	-63.23	5.68	12.52	H
	5222.1	-57.16	-13	-44.16	-62.83	7.15	12.82	H
	6962.8	-57.72	-13	-44.72	-61.15	8.42	11.85	H
	3481.4	-55.76	-13	-42.76	-62.60	5.68	12.52	V
	5222.1	-57.00	-13	-44.00	-62.67	7.15	12.82	V
	6962.8	-57.77	-13	-44.77	-61.20	8.42	11.85	V
NR n77 BW 100MHz Highest 1RB0,QPSK	7762.40	-57.56	-13	-44.56	-60.86	8.32	11.62	H
	11643.60	-54.03	-13	-41.03	-55.71	10.52	12.20	H
	15524.80	-50.00	-13	-37.00	-51.70	11.85	13.55	H
	7762.40	-54.22	-13	-41.22	-57.52	8.32	11.62	V
	11643.60	-50.90	-13	-37.90	-52.58	10.52	12.20	V
	15524.80	-51.86	-13	-38.86	-53.56	11.85	13.55	V

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



ULCA_n71-n77A (ANT1+12)								
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 n71 BW 20MHz Lowest 1RB0,QPSK	1327	-63.09	-13	-50.09	-66.32	3.98	9.36	H
	1990.5	-58.05	-13	-45.05	-61.60	4.85	10.55	H
	2654	-56.41	-13	-43.41	-61.34	5.50	12.58	H
	1327	-62.40	-13	-49.40	-65.63	3.98	9.36	V
	1990.5	-58.32	-13	-45.32	-61.87	4.85	10.55	V
	2654	-56.24	-13	-43.24	-61.17	5.50	12.58	V
NR n77 BW 100MHz Lowest 1RB0,QPSK	7402.40	-58.15	-13	-45.15	-61.48	8.25	11.58	H
	11103.60	-54.38	-13	-41.38	-55.93	10.45	12.00	H
	14804.80	-52.70	-13	-39.70	-54.41	11.74	13.45	H
	7402.40	-57.99	-13	-44.99	-61.32	8.25	11.58	V
	11103.60	-52.50	-13	-39.50	-54.05	10.45	12.00	V
	14804.80	-52.81	-13	-39.81	-54.52	11.74	13.45	V
NR n71 BW 20MHz Middle 1RB0,QPSK	1342	-63.06	-13	-50.06	-66.31	4.00	9.40	H
	2013	-58.26	-13	-45.26	-61.83	4.88	10.60	H
	2684	-56.86	-13	-43.86	-61.79	5.52	12.60	H
	1342	-62.18	-13	-49.18	-65.43	4.00	9.40	V
	2013	-58.48	-13	-45.48	-62.05	4.88	10.60	V
	2684	-56.21	-13	-43.21	-61.14	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7582.36	-57.77	-13	-44.77	-61.07	8.30	11.60	H
	11373.54	-55.48	-13	-42.48	-57.00	10.48	12.00	H
	15164.72	-52.54	-13	-39.54	-54.24	11.80	13.50	H
	7582.36	-57.62	-13	-44.62	-60.92	8.30	11.60	V
	11373.54	-51.29	-13	-38.29	-52.81	10.48	12.00	V
	15164.72	-52.47	-13	-39.47	-54.17	11.80	13.50	V
NR n71 BW 20MHz Highest 1RB0,QPSK	1357	-63.27	-13	-50.27	-66.44	4.10	9.42	H
	2035.5	-58.08	-13	-45.08	-61.66	4.90	10.63	H
	2714	-56.85	-13	-43.85	-61.77	5.55	12.62	H
	1357	-62.24	-13	-49.24	-65.41	4.10	9.42	V
	2035.5	-58.59	-13	-45.59	-62.17	4.90	10.63	V
	2714	-56.73	-13	-43.73	-61.65	5.55	12.62	V
NR n77 BW 100MHz Highest 1RB0,QPSK	7762.40	-57.47	-13	-44.47	-60.77	8.32	11.62	H
	11643.60	-53.91	-13	-40.91	-55.59	10.52	12.20	H
	15524.80	-49.89	-13	-36.89	-51.59	11.85	13.55	H
	7762.40	-54.02	-13	-41.02	-57.32	8.32	11.62	V
	11643.60	-50.67	-13	-37.67	-52.35	10.52	12.20	V
	15524.80	-51.46	-13	-38.46	-53.16	11.85	13.55	V

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