

FCC Test Report (Part 30)

Report No.: RFBFJZ-WTW-P22110126-11

FCC ID: V65E7200

Test Model: E7200

Received Date: Dec. 07, 2022

Test Date: Feb. 02 ~ Mar. 23, 2023

Issued Date: Apr. 07, 2023

Applicant: Kyocera Corporation c/o Kyocera International, Inc.

Address: 8611 Balboa Avenue, San Diego, CA 92123

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

FCC Registration /

Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBFJZ-WTW-P22110126-11	Original release.	Apr. 07, 2023

1 Certificate of Conformity

Product: Smartphone

Brand: Kyocera

Test Model: E7200

Sample Status: Identical prototype

Applicant: Kyocera Corporation c/o Kyocera International, Inc.

Test Date: Feb. 02 ~ Mar. 23, 2023

Standards: 47 CFR FCC Part 30

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen , **Date:** Apr. 07, 2023
Pettie Chen / Senior Specialist

Approved by : Jeremy Lin , **Date:** Apr. 07, 2023
Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 30				
FCC Clause	Test Item	Test Result	Test Condition	Remarks
2.1049	Emission Bandwidth	Pass	Radiated	Meet the requirement of limit.
30.202	EIRP	Pass		Meet the requirement of limit.
2.1051 30.203	Out-of-Band Spurious Emission	Pass		Meet the requirement of limit. Minimum passing margin is -13.99dB at 26925.35MHz.
2.1053 30.203	Out-of-Band Emission at the Band Edge	Pass		Meet the requirement of limit.
2.1055	Frequency Stability	Pass		Meet the requirement of limit.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Radiated Emissions	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB
	40GHz ~ 66GHz	4.59 dB
	66GHz ~ 100GHz	5.37 dB
	Above 100GHz	5.40 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Smartphone
Brand	Kyocera
Test Model	E7200
Status of EUT	Identical prototype
Power Supply Rating	20Vdc or 15Vdc or 5Vdc (From adapter) 3.87Vdc (From battery)
Modulation Type	BPSK, QPSK, 16QAM, 64QAM
Operating Frequency	n260: 37GHz ~ 40GHz n261: 27.5GHz ~ 28.35GHz
Supported Channel Bandwidth	50MHz, 100MHz
Supported Carrier Component	1CC, 2CC
Max. E.I.R.P. Power (RMS)	n260: 27.80dBm n261: 27.92dBm
Antenna Connector	NA
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below
Antenna Information	One antenna array is integrated on the backside of each 5GNR module. It consists of 5-element patch antenna array which is dual polarized (V & H). The purpose of the two spatially spaced 5GNR modules are for spatial diversity. The device searches for the best wide beam width (single patch element beam) on the appropriate module to improve the link and then switches to best narrow beam width (5-element patch beam) once it finds the optimal beam location. Each antenna array can change its gain pattern by changing the amplitudes and phases for the signals that are fed into the different antennas or elements in the array. This is controlled by the Qualcomm software, particularly the codebook. The codebook can turn on one, two or 5 elements in the patch array to create a gain pattern called a "beam". The maximum gain in V occurs when all the 5 vertically polarized patch feeds are turned on together and maximum gain in H occurs when all the 5 horizontally polarized patch feeds are turned on together, via the codebook amplitude & phase weights. Both H & V can also be excited simultaneously forming a beam-pair for MIMO operation.

Note:

1. The EUT contains two radio modules for millimeter wave.

Millimeter wave radio module	
Radio Module	Status
Module 0 (Left Side)	Active
Module 1 (Top Side)	Active

2. The worst beam ID:

Band	Supported Carrier Component	Beam ID	
		Single Beam	MIMO Beam
n260	1CC	168	168+40, 154+26
		41	
		40	
		163	
		154	
		36	
		26	
	2CC	168	168+40, 154+26
		41	
		40	
		163	
		154	
		36	
		26	
n261	1CC	158	167+39, 155+27
		167	
		39	
		155	
		35	
		27	
	2CC	158	167+39, 155+27
		167	
		39	
		155	
		35	
		27	

The worst beams are defined from the EIRP simulation report.

These modes were investigated and the worst case scenario was identified. The worst case data were presented in test report.

3. The EUT uses following accessories.

Battery		
Brand	Model	Specification
Kyocera	SCP-76LBPS	Power Rating : 3.87Vdc, typ 4270mAh, typ. 16.6Wh
USB Type A to USB type C cable		
Brand	Model	Specification
Kyocera	SCP-24 SDC	Signal Line : 1m shielded Type A to Type C USB

3.2 Description of Test Modes

Band	Component Carriers	Channel Bandwidth (MHz)	Channel	Beam ID	
				Single Beam	MIMO Beam
n260	1CC	50	2229583	168, 41, 40, 163, 154, 36, 26	168+40, 154+26
			2259997		
			2278747		
	1CC	100	2229999	168, 41, 40, 163, 154, 36, 26	168+40, 154+26
			2259997		
			2278331		
	2CC	50	2229583+2230417	168, 41, 40, 163, 154, 36, 26	168+40, 154+26
			2259583+2260417		
			2277915+2278747		
	2CC	100	2229999+2231665	168, 41, 40, 163, 154, 36, 26	168+40, 154+26
			2259163+2260831		
			2276663+2278331		

Band	Component Carriers	Channel Bandwidth (MHz)	Channel	Beam ID	
				Single Beam	MIMO Beam
n261	1CC	50	2071249	158, 167, 39, 155, 35, 27	167+39, 155+27
			2077891		
			2084581		
	1CC	100	2071821	158, 167, 39, 155, 35, 27	167+39, 155+27
			2077891		
			2084035		
	2CC	50	2071249+2072083	158, 167, 39, 155, 35, 27	167+39, 155+27
			2077499+2078333		
			2083747+2084581		
	2CC	100	2071831+2073489	158, 167, 39, 155, 35, 27	167+39, 155+27
			2077833+2079499		
			2082333+2084001		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to						Description
	EB	EIRP	RE $\geq$ 1G	RE<1G	OOB	FS	
-	√	√	√	√	√	√	-

Where **EB**: Emission Bandwidth **EIRP**: Effective Isotropically Radiated Power
RE $\geq$ 1G: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
OOB: Out-of-Band Emission at the Band Edge **FS**: Frequency Stability

Emission Bandwidth Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Channel Bandwidth (MHz)	Beam ID	Mode
n260	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	50	36	Full RB
				100	36	
	2CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	50	36	Full RB
				100	168	
n261	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	50	39	Full RB
				100	39	
	2CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	50	155	Full RB
				100	39	

EIRP Power Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Channel Bandwidth (MHz)	Mode
n260	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	168, 41, 40, 163, 154, 36, 26, 168+40, 154+26	50	1RB / 0RB offset 1RB / 16RB offset 1RB / 31RB offset Full RB
					100	1RB / 0RB offset 1RB / 32RB offset 1RB / 65RB offset Full RB
	2CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	168, 41, 40, 163, 154, 36, 26, 168+40, 154+26	50	1RB / 0RB offset 1RB / 16RB offset 1RB / 31RB offset Full RB
					100	1RB / 0RB offset 1RB / 32RB offset 1RB / 65RB offset Full RB
n261	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	158, 167, 39, 155, 35, 27, 167+39, 155+27	50	1RB / 0RB offset 1RB / 16RB offset 1RB / 31RB offset Full RB
					100	1RB / 0RB offset 1RB / 32RB offset 1RB / 65RB offset Full RB
	2CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	158, 167, 39, 155, 35, 27, 167+39, 155+27	50	1RB / 0RB offset 1RB / 16RB offset 1RB / 31RB offset Full RB
					100	1RB / 0RB offset 1RB / 32RB offset 1RB / 65RB offset Full RB

Radiated Emission Test (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L, M, H	QPSK	168+40, 154+26	1RB / 32RB offset 1RB / 65RB offset
		L, M, H	QPSK	168+40, 154+26	1RB / 32RB offset 1RB / 65RB offset
n261	1CC	L, M, H	QPSK	167+39, 155+27	1RB / 32RB offset 1RB / 65RB offset
		L, M, H	QPSK	167+39, 155+27	1RB / 32RB offset 1RB / 65RB offset

Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L, M, H	QPSK	168+40, 154+26	1RB / 31RB offset
		L, M, H	QPSK	168+40, 154+26	1RB / 32RB offset
n261	1CC	L, M, H	QPSK	167+39, 155+27	1RB / 32RB offset
		L, M, H	QPSK	167+39, 155+27	1RB / 32RB offset

Out-of-Band Emission at the Band Edge:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L	QPSK	168, 41, 163, 36, 168+40, 154+26	1RB / 0RB offset Full RB
		H			1RB / 31RB offset 1RB / 65RB offset Full RB
	2CC	L	QPSK	168, 41, 163, 36, 168+40, 154+26	1RB / 0RB offset Full RB
		H			1RB / 31RB offset 1RB / 65RB offset Full RB
n261	1CC	L	QPSK	158, 39, 155, 35, 167+39, 155+27	1RB / 0RB offset Full RB
		H			1RB / 31RB offset 1RB / 65RB offset Full RB
	2CC	L	QPSK	158, 39, 155, 35, 167+39, 155+27	1RB / 0RB offset Full RB
		H			1RB / 31RB offset 1RB / 65RB offset Full RB

Frequency Stability Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	M	QPSK	-	Full RB
n261	1CC	M	QPSK	-	Full RB

Test Condition:

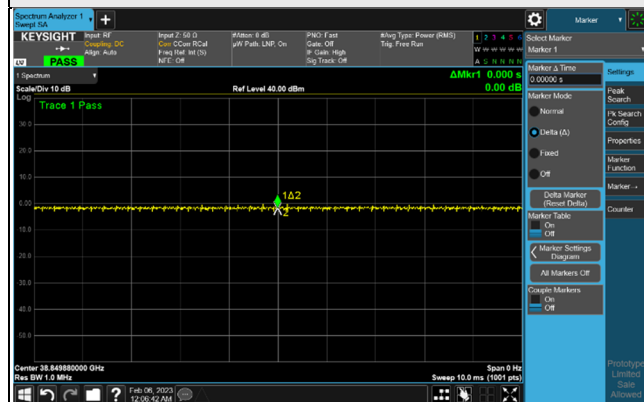
Applicable to	Environmental Conditions	Input Power	Tested by
MC	25deg. C, 65%RH	120Vac, 60Hz	Wade Huang
EB	25deg. C, 65%RH	120Vac, 60Hz	Wade Huang
EIRP	25deg. C, 65%RH	120Vac, 60Hz	Wade Huang
RE $\geq$ 1G	15deg. C, 69%RH 23deg. C, 67%RH	120Vac, 60Hz	Noah Chang Greg Lin
RE<1G	22deg. C, 68%RH 22deg. C, 67%RH	120Vac, 60Hz	Wade Huang Greg Lin
OOB	23deg. C, 69%RH	120Vac, 60Hz	Wade Huang
FS	25deg. C, 65%RH	120Vac, 60Hz	Wade Huang

3.3 Duty Cycle of Test Signal

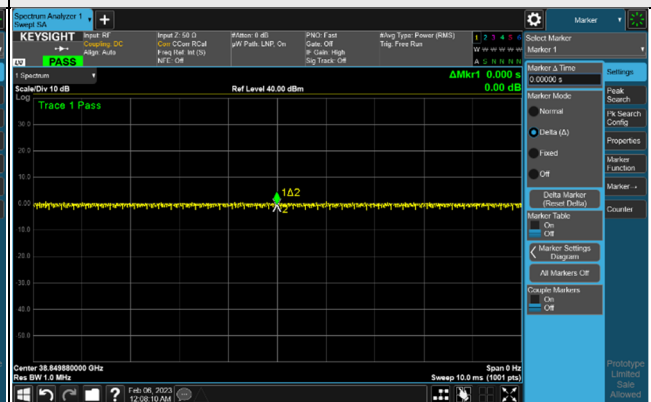
Duty cycle of test signal is 100 %.

n260: Channel Bandwidth: 50MHz: 1CC

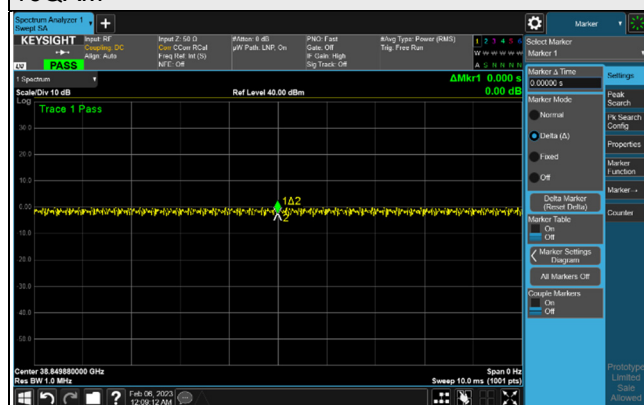
BPSK



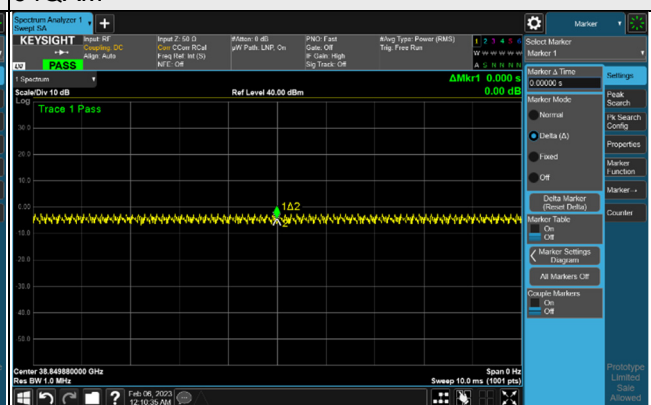
QPSK



16QAM

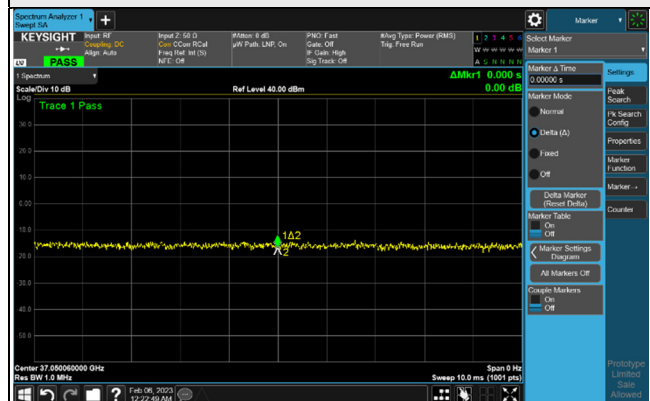


64QAM

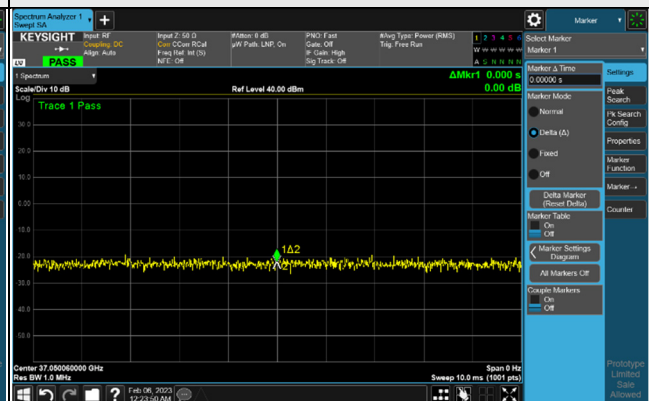


n260: Channel Bandwidth: 50MHz: 2CC

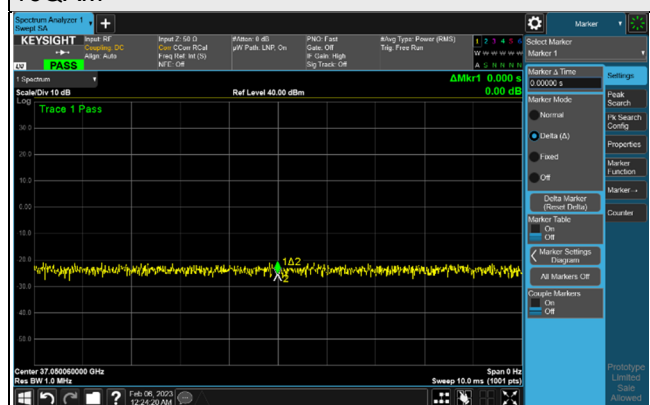
BPSK



QPSK



16QAM

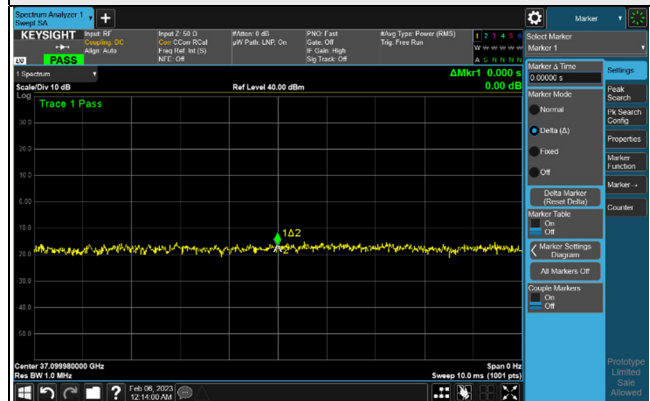


64QAM

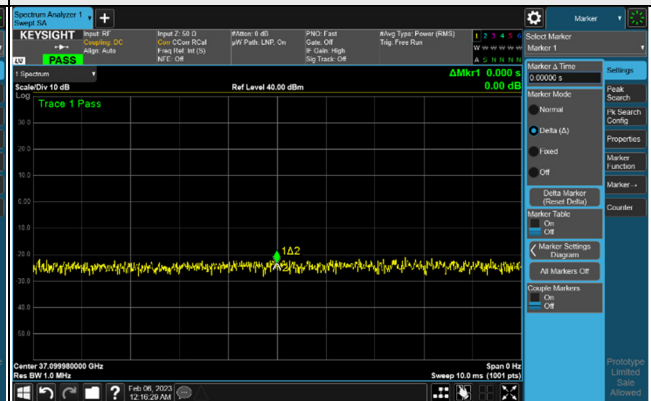


n260: Channel Bandwidth: 100MHz: 2CC

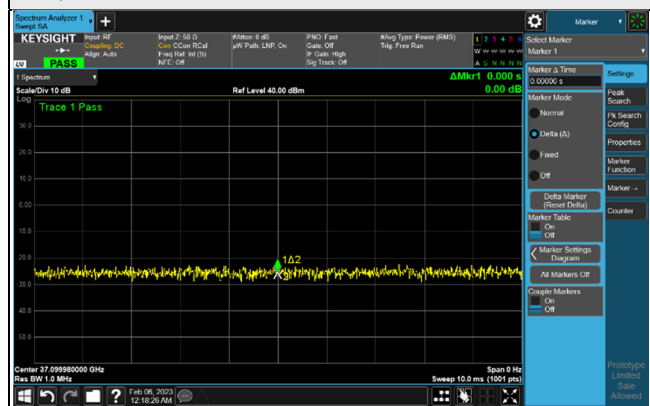
BPSK



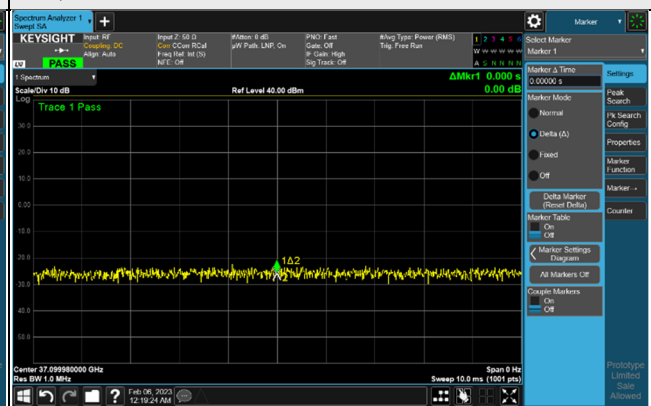
QPSK



16QAM

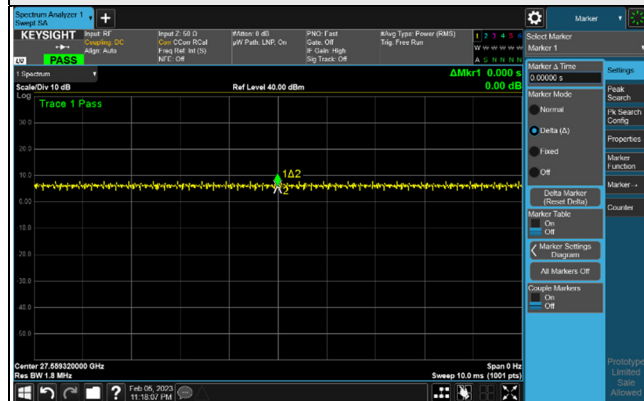


64QAM

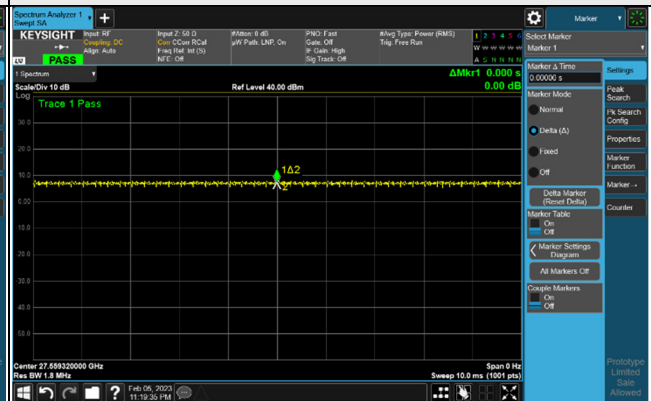


n261: Channel Bandwidth: 100MHz: 1CC

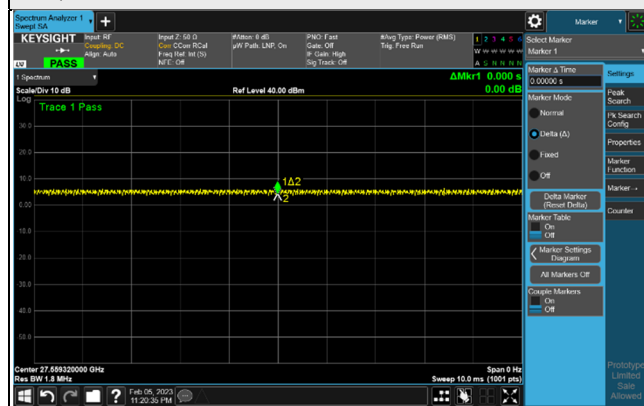
BPSK



QPSK



16QAM



64QAM



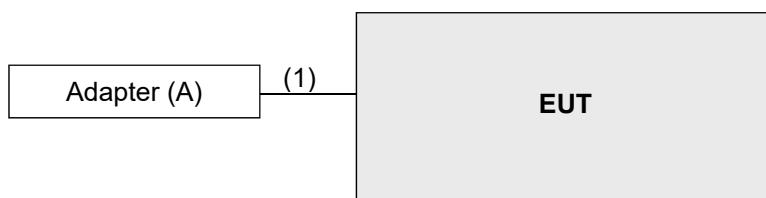
3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Kyocera	SCP-53ADT	N/A	N/A	Provided by Client

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1	Y	0	Accessory of EUT

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 30

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 842590 D01 Upper Microwave Flexible Use Service v01r02, April 2021

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

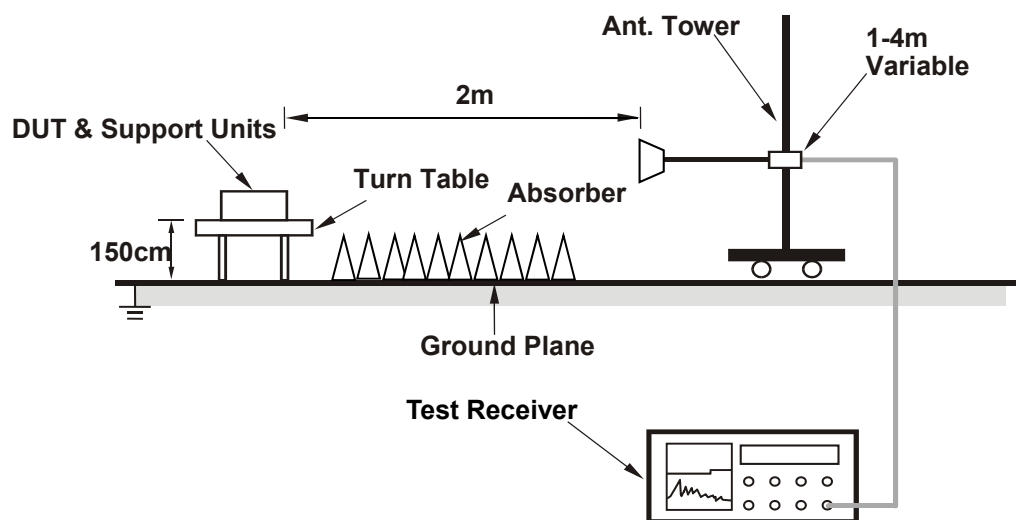
4.1 Equivalent Isotropic Radiated Power (EIRP) Measurement

4.1.1 Limits of EIRP Measurement

Device		Maximum Limit of EIRP
☐	Fixed and Base Stations	EIRP 75dBm/100MHz (sum of all antenna elements)
☒	Mobile Stations	EIRP 43dBm (sum of all antenna elements)
☐	Transportable Stations	EIRP 55dBm (sum of all antenna elements)

4.1.2 Test Setup

Test site-up for radiated ERP and/or EIRP measurements



4.1.3 Test Instruments

For Below 40GHz and Frequency Stability

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower KaiTuo	NA	NA	NA	NA
Antenna Tower Controller KaiTuo	KT-2000	NA	NA	NA
Turn Table Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208675	NA	NA
Test Receiver R&S	ESR3	102579	July 1, 2022	June 30, 2023
PXA Signal Analyzer KEYSIGHT	N9030B	MY57141885	Jun. 1, 2022	May 31, 2023
Loop Antenna TESEQ	HLA 6121	45745	July 27, 2022	July 26, 2023
Loop Antenna EMCI	EM-6879	269	Sep. 19, 2022	Sep. 18, 2023
Pre-amplifier EMCI	EMC001340	980201	Sep. 23, 2022	Sep. 22, 2023
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	Jan. 7, 2023	Jan. 6, 2024
Pre_Amplifier EMCI	EMC330N	980783	Jan. 16, 2023	Jan. 15, 2024
Bi-log Broadband Antenna Schwarzbeck	VULB9168	9168-995	Oct. 20, 2022	Oct. 19, 2023
RF Coaxial Cable EMCI	EMCCFD400-NM-NM- 9000	201252(with PAD)	Jan. 16, 2023	Jan. 15, 2024
RF Coaxial Cable EMCI	EMCCFD400-NM-NM- 3000	201250	Jan. 16, 2023	Jan. 15, 2024
RF Coaxial Cable EMCI	EMCCFD400-NM-NM- 500	201245	Jan. 16, 2023	Jan. 15, 2024
Horn Antenna RFSPIN	DRH18-E	210104A18E	Nov. 13, 2022	Nov. 12, 2023
Pre_Amplifier EMCI	EMC118A45SE	980810	Dec. 29, 2022	Dec. 28, 2023
RF Coaxial Cable EMCI	EMC104-SM-SM-9000	201230	Jan. 16, 2023	Jan. 15, 2024
RF Coaxial Cable EMCI	EMC104-SM-SM-3000	201242	Jan. 16, 2023	Jan. 15, 2024
RF Coaxial Cable EMCI	EMC104-SM-SM-1000	210101	Jan. 16, 2023	Jan. 15, 2024
Pre_Amplifier EMCI	EMC184045SE	980787	Jan. 16, 2023	Jan. 15, 2024
Horn Antenna Schwarzbeck	BBHA 9170	9170-1048	Nov. 13, 2022	Nov. 12, 2023
RF Coaxial Cable EMCI	EMC101G-KM-KM- 5000	201261	Jan. 16, 2023	Jan. 15, 2024
RF Coaxial Cable EMCI	EMC101G-KM-KM- 3000	201258	Jan. 16, 2023	Jan. 15, 2024
RF Coaxial Cable EMCI	EMC101G-KM-KM- 2000	201253	Jan. 16, 2023	Jan. 15, 2024

Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	May 30, 2022	May 29, 2023
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 09, 2022	Jun. 08, 2023

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in WM - 966 chamber 7.

For Above 40GHz:

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Keysight	N9030A	MY54490561	Jul. 26, 2022	Jul. 25, 2023
*Antenna_Horn oxe89 QUINSTAR	QWH-QPRR00	QWH-QPRR00-2	Feb. 11, 2021	Feb. 10, 2024
*Antenna_Horn Conical Keysight	WR15CH-Conical	RCH015RL-2	Feb. 11, 2021	Feb. 10, 2024
*Antenna_Horn Conical Keysight	WR10CH-Conical	RCH010RL-2	Feb. 11, 2021	Feb. 10, 2024
*Antenna_Horn Conical Keysight	WR6.5CH-Conical	RCH06RL-1	Feb. 11, 2021	Feb. 10, 2024
*Antenna_Horn Conical	WR5.1CH-Conical	RCH05RL-1	Feb. 11, 2021	Feb. 10, 2024
*Antenna_Horn Diagonal Keysight	WR3.4DH-Diagonal	WR3.4DHR4 5-12	Feb. 11, 2021	Feb. 10, 2024
Extension Module_down converter VDI	N9029AV15	SAX 381	CoC	CoC
Extension Module_down converter VDI	N9029AV10	SAX 378	CoC	CoC
*Extension Module_down converter VDI	N9029AV06	SAX723	Feb. 11, 2021	Feb. 10, 2024
*Extension Module_down converter VDI	N9029AV05	SAX722	Feb. 11, 2021	Feb. 10, 2024
*Extension Module_down converter VDI	N9029AV03	SAX721	Feb. 11, 2021	Feb. 10, 2024
*Extension Module_up converter VDI	E8257DV15	SGX648	Feb. 11, 2021	Feb. 10, 2024
*Extension Module_up converter VDI	E8257DV10	SGX647	Feb. 11, 2021	Feb. 10, 2024
*Extension Module_up converter VDI	E8257DV06	SGX645	Feb. 11, 2021	Feb. 10, 2024
*Extension Module_up converter VDI	E8257DV05	SGX644	Feb. 11, 2021	Feb. 10, 2024
*Extension Module_up converter VDI	E8257DV03	SGX643	Feb. 11, 2021	Feb. 10, 2024
*Power Meter VDI	PM5B	571V	Feb. 11, 2021	Feb. 10, 2024
Amplifier_(33~55GHz) Quinstar	QLW-33505050-R0	1660800008	CoC	CoC
Amplifier_(50~75GHz) ERAVANT	SBL-5037535050-1515-E1	10337-01	CoC	CoC
Amplifier_(75~110GHz) ERAVANT	SBL-7531143550-1010-E1	10338-01	CoC	CoC
Amplifier_(110~170GHz) ERAVANT	SBL-1141741860-0606-E1	10339-01	CoC	CoC
Amplifier (140-220GHz) TRANSCOMM	THZLNA-05FB	202008001	CoC	CoC

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The calibration interval of the above test instruments is 36 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 4
- 4 C.O.C: Certificate of conformance

4.1.4 Test Procedures

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The average power of the sum of all antenna elements is limited to a maximum EIRP of +43dBm.

Test Procedures Used

ANSI C63.26-2015 Section 5.2.4.4.1

KDB 842590 D01 v01r02 Section 4.2

Measurement Distance		
EUT antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
Below 18GHz	0.07m	3m
18GHz to 40GHz	0.15m	2m
40GHz to 200GHz	0.15m to 0.77m	1m
Note: EUT Antenna Dimension is 23.8mm x 3.50mm x 2.14mm rectangular		
Measurement antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
40GHz-50GHz	30mm	1m
50GHz-75GHz	25mm	1m
75GHz-110GHz	18mm	1m
110GHz-170GHz	12mm	1m
170GHz-200GHz	8mm	1m

4.1.5 Test Settings

- a. Radiated power measurements were performed using the spectrum analyzer's channel power measurement function.
- b. Set the RBW = 1~5% of the anticipated RBW=1MHz, and the VBW $\geq 3 \times$ RBW.
- c. Set spectrum analyzer detection mode to RMS
- d. Span = 2x to 3x the OBW
- e. No. of sweep points $\geq 2 \times$ span / RBW
- f. Trigger is set to "free run" for test signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
- g. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signal with burst transmission, the "gating" function was enabled to ensure that measurements were performed during times in which the transmitter is operating at its maximum power.
- h. Trace mode = trace averaging (RMS) over 100 sweeps.
- i. The trace was allowed to stabilize.

Note:

1. EIRP measurements were taken at 2m test distance.
2. The average EIRP reported below is calculated per section 5.2.7 of ANSI C63.26-2015 which states:
 $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m. The field strength E is calculated $E (dB\mu V/m) = \text{Spectrum Analyzer Channel Power Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107$.

4.1.6 Deviation from Test Standard

No deviation.

4.1.7 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.1.8 Test Result

n260: 1CC

Band	n260	Beam ID	168
EUT position	X-plane	Receive Antenna polarization	Horizontal

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	100	18.81	43.00	PASS
				1RB16	100	20.62	43.00	PASS
				1RB31	100	20.12	43.00	PASS
				Full RB	130	18.58	43.00	PASS
		2259997	38849.88	1RB0	100	20.08	43.00	PASS
				1RB16	100	22.91	43.00	PASS
				1RB31	100	19.74	43.00	PASS
				Full RB	130	19.50	43.00	PASS
		2278747	39974.88	1RB0	100	19.51	43.00	PASS
				1RB16	100	22.15	43.00	PASS
				1RB31	100	19.72	43.00	PASS
				Full RB	130	19.28	43.00	PASS
QPSK	50	2229583	37025.04	1RB0	100	18.58	43.00	PASS
				1RB16	100	20.46	43.00	PASS
				1RB31	100	19.87	43.00	PASS
				Full RB	130	18.29	43.00	PASS
		2259997	38849.88	1RB0	100	19.83	43.00	PASS
				1RB16	100	22.81	43.00	PASS
				1RB31	100	19.59	43.00	PASS
				Full RB	130	19.23	43.00	PASS
		2278747	39974.88	1RB0	100	19.22	43.00	PASS
				1RB16	100	21.93	43.00	PASS
				1RB31	100	19.47	43.00	PASS
				Full RB	130	19.04	43.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	100	17.91	43.00	PASS
				1RB16	100	19.78	43.00	PASS
				1RB31	100	19.10	43.00	PASS
				Full RB	130	17.68	43.00	PASS
		2259997	38849.88	1RB0	100	19.19	43.00	PASS
				1RB16	100	22.03	43.00	PASS
				1RB31	100	18.84	43.00	PASS
				Full RB	130	18.60	43.00	PASS
		2278747	39974.88	1RB0	100	18.42	43.00	PASS
				1RB16	100	21.29	43.00	PASS
				1RB31	100	18.84	43.00	PASS
				Full RB	130	18.26	43.00	PASS
64QAM	50	2229583	37025.04	1RB0	100	15.89	43.00	PASS
				1RB16	100	17.83	43.00	PASS
				1RB31	100	17.08	43.00	PASS
				Full RB	130	15.77	43.00	PASS
		2259997	38849.88	1RB0	100	17.27	43.00	PASS
				1RB16	100	20.03	43.00	PASS
				1RB31	100	16.87	43.00	PASS
				Full RB	130	16.58	43.00	PASS
		2278747	39974.88	1RB0	100	16.32	43.00	PASS
				1RB16	100	19.32	43.00	PASS
				1RB31	100	16.75	43.00	PASS
				Full RB	130	16.35	43.00	PASS

n260: 1CC

Band	n260	Beam ID	41
EUT position	X-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	100	19.44	43.00	PASS
				1RB16	100	22.18	43.00	PASS
				1RB31	100	19.62	43.00	PASS
				Full RB	130	19.19	43.00	PASS
		2259997	38849.88	1RB0	100	20.14	43.00	PASS
				1RB16	100	22.87	43.00	PASS
				1RB31	100	20.35	43.00	PASS
				Full RB	130	19.91	43.00	PASS
		2278747	39974.88	1RB0	100	19.46	43.00	PASS
				1RB16	100	22.39	43.00	PASS
				1RB31	100	20.14	43.00	PASS
				Full RB	130	19.22	43.00	PASS
QPSK	50	2229583	37025.04	1RB0	100	19.19	43.00	PASS
				1RB16	100	21.93	43.00	PASS
				1RB31	100	19.44	43.00	PASS
				Full RB	130	19.04	43.00	PASS
		2259997	38849.88	1RB0	100	19.95	43.00	PASS
				1RB16	100	22.61	43.00	PASS
				1RB31	100	20.15	43.00	PASS
				Full RB	130	19.81	43.00	PASS
		2278747	39974.88	1RB0	100	19.25	43.00	PASS
				1RB16	100	22.09	43.00	PASS
				1RB31	100	19.97	43.00	PASS
				Full RB	130	19.10	43.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	100	17.96	43.00	PASS
				1RB16	100	20.83	43.00	PASS
				1RB31	100	18.34	43.00	PASS
				Full RB	130	17.78	43.00	PASS
		2259997	38849.88	1RB0	100	18.89	43.00	PASS
				1RB16	100	21.42	43.00	PASS
				1RB31	100	18.85	43.00	PASS
				Full RB	130	18.61	43.00	PASS
		2278747	39974.88	1RB0	100	18.15	43.00	PASS
				1RB16	100	20.93	43.00	PASS
				1RB31	100	18.87	43.00	PASS
				Full RB	130	17.86	43.00	PASS
64QAM	50	2229583	37025.04	1RB0	100	16.11	43.00	PASS
				1RB16	100	19.05	43.00	PASS
				1RB31	100	16.57	43.00	PASS
				Full RB	130	15.91	43.00	PASS
		2259997	38849.88	1RB0	100	17.13	43.00	PASS
				1RB16	100	19.53	43.00	PASS
				1RB31	100	17.08	43.00	PASS
				Full RB	130	16.71	43.00	PASS
		2278747	39974.88	1RB0	100	16.34	43.00	PASS
				1RB16	100	19.10	43.00	PASS
				1RB31	100	16.98	43.00	PASS
				Full RB	130	15.96	43.00	PASS

n260: 1CC

Band	n260	Beam ID	40
EUT position	X-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	100	19.72	43.00	PASS
				1RB16	100	22.65	43.00	PASS
				1RB31	100	20.36	43.00	PASS
				Full RB	130	19.49	43.00	PASS
		2259997	38849.88	1RB0	100	19.00	43.00	PASS
				1RB16	100	21.06	43.00	PASS
				1RB31	100	18.54	43.00	PASS
				Full RB	130	18.31	43.00	PASS
		2278747	39974.88	1RB0	100	18.77	43.00	PASS
				1RB16	100	19.05	43.00	PASS
				1RB31	100	18.81	43.00	PASS
				Full RB	130	18.54	43.00	PASS
QPSK	50	2229583	37025.04	1RB0	100	19.40	43.00	PASS
				1RB16	100	22.49	43.00	PASS
				1RB31	100	20.09	43.00	PASS
				Full RB	130	19.26	43.00	PASS
		2259997	38849.88	1RB0	100	18.86	43.00	PASS
				1RB16	100	20.82	43.00	PASS
				1RB31	100	18.32	43.00	PASS
				Full RB	130	18.04	43.00	PASS
		2278747	39974.88	1RB0	100	18.61	43.00	PASS
				1RB16	100	18.92	43.00	PASS
				1RB31	100	18.51	43.00	PASS
				Full RB	130	18.31	43.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	100	18.69	43.00	PASS
				1RB16	100	22.09	43.00	PASS
				1RB31	100	19.30	43.00	PASS
				Full RB	130	18.55	43.00	PASS
		2259997	38849.88	1RB0	100	18.14	43.00	PASS
				1RB16	100	20.09	43.00	PASS
				1RB31	100	17.58	43.00	PASS
				Full RB	130	17.36	43.00	PASS
		2278747	39974.88	1RB0	100	17.95	43.00	PASS
				1RB16	100	18.13	43.00	PASS
				1RB31	100	17.87	43.00	PASS
				Full RB	130	17.63	43.00	PASS
64QAM	50	2229583	37025.04	1RB0	100	16.88	43.00	PASS
				1RB16	100	20.23	43.00	PASS
				1RB31	100	17.49	43.00	PASS
				Full RB	130	16.68	43.00	PASS
		2259997	38849.88	1RB0	100	16.30	43.00	PASS
				1RB16	100	18.30	43.00	PASS
				1RB31	100	15.71	43.00	PASS
				Full RB	130	15.59	43.00	PASS
		2278747	39974.88	1RB0	100	16.22	43.00	PASS
				1RB16	100	16.32	43.00	PASS
				1RB31	100	16.10	43.00	PASS
				Full RB	130	15.88	43.00	PASS

n260: 1CC

Band	n260	Beam ID	163
EUT position	Y-plane	Receive Antenna polarization	Horizontal

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	100	22.91	43.00	PASS
				1RB16	100	23.25	43.00	PASS
				1RB31	100	23.08	43.00	PASS
				Full RB	130	22.67	43.00	PASS
		2259997	38849.88	1RB0	100	21.08	43.00	PASS
				1RB16	100	21.31	43.00	PASS
				1RB31	100	21.13	43.00	PASS
				Full RB	130	20.84	43.00	PASS
		2278747	39974.88	1RB0	100	20.06	43.00	PASS
				1RB16	100	20.34	43.00	PASS
				1RB31	100	20.10	43.00	PASS
				Full RB	130	19.82	43.00	PASS
QPSK	50	2229583	37025.04	1RB0	100	22.68	43.00	PASS
				1RB16	100	23.02	43.00	PASS
				1RB31	100	22.98	43.00	PASS
				Full RB	130	22.49	43.00	PASS
		2259997	38849.88	1RB0	100	20.81	43.00	PASS
				1RB16	100	21.06	43.00	PASS
				1RB31	100	20.86	43.00	PASS
				Full RB	130	20.54	43.00	PASS
		2278747	39974.88	1RB0	100	19.81	43.00	PASS
				1RB16	100	20.19	43.00	PASS
				1RB31	100	19.92	43.00	PASS
				Full RB	130	19.69	43.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	100	21.98	43.00	PASS
				1RB16	100	22.36	43.00	PASS
				1RB31	100	22.18	43.00	PASS
				Full RB	130	21.75	43.00	PASS
		2259997	38849.88	1RB0	100	20.08	43.00	PASS
				1RB16	100	20.38	43.00	PASS
				1RB31	100	20.22	43.00	PASS
				Full RB	130	19.85	43.00	PASS
		2278747	39974.88	1RB0	100	19.08	43.00	PASS
				1RB16	100	19.55	43.00	PASS
				1RB31	100	19.32	43.00	PASS
				Full RB	130	18.89	43.00	PASS
64QAM	50	2229583	37025.04	1RB0	100	19.78	43.00	PASS
				1RB16	100	20.19	43.00	PASS
				1RB31	100	19.93	43.00	PASS
				Full RB	130	19.64	43.00	PASS
		2259997	38849.88	1RB0	100	17.82	43.00	PASS
				1RB16	100	18.26	43.00	PASS
				1RB31	100	18.00	43.00	PASS
				Full RB	130	17.69	43.00	PASS
		2278747	39974.88	1RB0	100	16.98	43.00	PASS
				1RB16	100	17.27	43.00	PASS
				1RB31	100	17.10	43.00	PASS
				Full RB	130	16.61	43.00	PASS

n260: 1CC

Band	n260	Beam ID	154
EUT position	Y-plane	Receive Antenna polarization	Horizontal

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	100	20.09	43.00	PASS
				1RB16	100	22.21	43.00	PASS
				1RB31	100	21.53	43.00	PASS
				Full RB	130	19.84	43.00	PASS
		2259997	38849.88	1RB0	100	20.06	43.00	PASS
				1RB16	100	23.19	43.00	PASS
				1RB31	100	20.56	43.00	PASS
				Full RB	130	19.79	43.00	PASS
		2278747	39974.88	1RB0	100	18.58	43.00	PASS
				1RB16	100	21.84	43.00	PASS
				1RB31	100	19.31	43.00	PASS
				Full RB	130	18.33	43.00	PASS
QPSK	50	2229583	37025.04	1RB0	100	19.82	43.00	PASS
				1RB16	100	22.02	43.00	PASS
				1RB31	100	21.30	43.00	PASS
				Full RB	130	19.56	43.00	PASS
		2259997	38849.88	1RB0	100	19.83	43.00	PASS
				1RB16	100	22.94	43.00	PASS
				1RB31	100	20.30	43.00	PASS
				Full RB	130	19.53	43.00	PASS
		2278747	39974.88	1RB0	100	18.36	43.00	PASS
				1RB16	100	21.63	43.00	PASS
				1RB31	100	19.09	43.00	PASS
				Full RB	130	18.22	43.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	100	19.22	43.00	PASS
				1RB16	100	21.37	43.00	PASS
				1RB31	100	20.76	43.00	PASS
				Full RB	130	18.96	43.00	PASS
		2259997	38849.88	1RB0	100	19.28	43.00	PASS
				1RB16	100	22.38	43.00	PASS
				1RB31	100	19.80	43.00	PASS
				Full RB	130	18.96	43.00	PASS
		2278747	39974.88	1RB0	100	17.78	43.00	PASS
				1RB16	100	20.98	43.00	PASS
				1RB31	100	18.47	43.00	PASS
				Full RB	130	17.70	43.00	PASS
64QAM	50	2229583	37025.04	1RB0	100	17.51	43.00	PASS
				1RB16	100	19.69	43.00	PASS
				1RB31	100	19.14	43.00	PASS
				Full RB	130	17.32	43.00	PASS
		2259997	38849.88	1RB0	100	17.53	43.00	PASS
				1RB16	100	20.77	43.00	PASS
				1RB31	100	18.12	43.00	PASS
				Full RB	130	17.24	43.00	PASS
		2278747	39974.88	1RB0	100	15.98	43.00	PASS
				1RB16	100	19.24	43.00	PASS
				1RB31	100	16.72	43.00	PASS
				Full RB	130	16.02	43.00	PASS

n260: 1CC

Band	n260	Beam ID	36
EUT position	Y-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	100	20.82	43.00	PASS
				1RB16	100	23.69	43.00	PASS
				1RB31	100	21.71	43.00	PASS
				Full RB	130	20.58	43.00	PASS
		2259997	38849.88	1RB0	100	21.23	43.00	PASS
				1RB16	100	23.74	43.00	PASS
				1RB31	100	21.15	43.00	PASS
				Full RB	130	20.92	43.00	PASS
		2278747	39974.88	1RB0	100	19.62	43.00	PASS
				1RB16	100	22.52	43.00	PASS
				1RB31	100	19.32	43.00	PASS
				Full RB	130	19.07	43.00	PASS
QPSK	50	2229583	37025.04	1RB0	100	20.51	43.00	PASS
				1RB16	100	23.52	43.00	PASS
				1RB31	100	21.55	43.00	PASS
				Full RB	130	20.40	43.00	PASS
		2259997	38849.88	1RB0	100	21.06	43.00	PASS
				1RB16	100	23.58	43.00	PASS
				1RB31	100	20.97	43.00	PASS
				Full RB	130	20.69	43.00	PASS
		2278747	39974.88	1RB0	100	19.39	43.00	PASS
				1RB16	100	22.42	43.00	PASS
				1RB31	100	19.09	43.00	PASS
				Full RB	130	18.85	43.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	100	19.81	43.00	PASS
				1RB16	100	22.88	43.00	PASS
				1RB31	100	20.79	43.00	PASS
				Full RB	130	19.67	43.00	PASS
		2259997	38849.88	1RB0	100	20.33	43.00	PASS
				1RB16	100	22.96	43.00	PASS
				1RB31	100	20.18	43.00	PASS
				Full RB	130	20.04	43.00	PASS
		2278747	39974.88	1RB0	100	18.71	43.00	PASS
				1RB16	100	21.67	43.00	PASS
				1RB31	100	18.43	43.00	PASS
				Full RB	130	18.12	43.00	PASS
64QAM	50	2229583	37025.04	1RB0	100	17.58	43.00	PASS
				1RB16	100	20.75	43.00	PASS
				1RB31	100	18.61	43.00	PASS
				Full RB	130	17.38	43.00	PASS
		2259997	38849.88	1RB0	100	18.21	43.00	PASS
				1RB16	100	20.81	43.00	PASS
				1RB31	100	18.00	43.00	PASS
				Full RB	130	17.77	43.00	PASS
		2278747	39974.88	1RB0	100	16.61	43.00	PASS
				1RB16	100	19.38	43.00	PASS
				1RB31	100	16.32	43.00	PASS
				Full RB	130	15.85	43.00	PASS

n260: 1CC

Band	n260	Beam ID	26
EUT position	Y-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	100	20.74	43.00	PASS
				1RB16	100	23.56	43.00	PASS
				1RB31	100	21.53	43.00	PASS
				Full RB	130	20.48	43.00	PASS
		2259997	38849.88	1RB0	100	19.77	43.00	PASS
				1RB16	100	22.98	43.00	PASS
				1RB31	100	20.81	43.00	PASS
				Full RB	130	19.54	43.00	PASS
		2278747	39974.88	1RB0	100	18.06	43.00	PASS
				1RB16	100	21.09	43.00	PASS
				1RB31	100	18.87	43.00	PASS
				Full RB	130	17.83	43.00	PASS
QPSK	50	2229583	37025.04	1RB0	100	20.50	43.00	PASS
				1RB16	100	23.42	43.00	PASS
				1RB31	100	21.31	43.00	PASS
				Full RB	130	20.20	43.00	PASS
		2259997	38849.88	1RB0	100	19.54	43.00	PASS
				1RB16	100	22.86	43.00	PASS
				1RB31	100	20.61	43.00	PASS
				Full RB	130	19.31	43.00	PASS
		2278747	39974.88	1RB0	100	17.95	43.00	PASS
				1RB16	100	20.93	43.00	PASS
				1RB31	100	18.64	43.00	PASS
				Full RB	130	17.72	43.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	100	19.67	43.00	PASS
				1RB16	100	22.62	43.00	PASS
				1RB31	100	20.59	43.00	PASS
				Full RB	130	19.45	43.00	PASS
		2259997	38849.88	1RB0	100	18.77	43.00	PASS
				1RB16	100	22.05	43.00	PASS
				1RB31	100	19.89	43.00	PASS
				Full RB	130	18.52	43.00	PASS
		2278747	39974.88	1RB0	100	17.05	43.00	PASS
				1RB16	100	20.20	43.00	PASS
				1RB31	100	17.78	43.00	PASS
				Full RB	130	16.94	43.00	PASS
64QAM	50	2229583	37025.04	1RB0	100	17.59	43.00	PASS
				1RB16	100	20.69	43.00	PASS
				1RB31	100	18.58	43.00	PASS
				Full RB	130	17.49	43.00	PASS
		2259997	38849.88	1RB0	100	16.87	43.00	PASS
				1RB16	100	19.97	43.00	PASS
				1RB31	100	17.83	43.00	PASS
				Full RB	130	16.53	43.00	PASS
		2278747	39974.88	1RB0	100	15.11	43.00	PASS
				1RB16	100	18.23	43.00	PASS
				1RB31	100	15.85	43.00	PASS
				Full RB	130	14.87	43.00	PASS