

PCTEST

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PART 27 MEASUREMENT REPORT

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si

Gyeonggi-do, 16677, Korea

Date of Testing:

2/1/2022 - 2/28/2022

Test Report Issue Date:

02/28/2022

Test Site/Location:

PCTEST Lab. Columbia, MD, USA

Test Report Serial No.: 1M2202030012-03.A3L

FCC ID: A3LSMS901E

Applicant Name: Samsung Electronics Co., Ltd.

Application Type: Class II Permissive Change

Model: SM-S901E/DS Additional Model(s): SM-S901E

EUT Type: Portable Handset

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part: 27

Test Procedure(s): ANSI C63.26-2015, KDB 648474 D03 v01r04

Class II Permissive Change: Please see FCC change document

Original Grant date: 01/10/2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



assembly of contents thereof, please contact INFO@PCTEST.COM.





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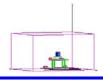


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				EI	RP	
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		π/2 BPSK	3750.0 - 3930.0	0.132	21.19	96M7G7D
	100 MHz	QPSK	3750.0 - 3930.0	0.133	21.25	97M9G7D
		16QAM	3750.0 - 3930.0	0.113	20.51	97M7W7D
		π/2 BPSK	3745.0 - 3935.0	0.131	21.18	87M0G7D
	90 MHz	QPSK	3745.0 - 3935.0	0.131	21.16	87M7G7D
		16QAM	3745.0 - 3935.0	0.112	20.49	87M7W7D
		π/2 BPSK	3740.0 - 3940.0	0.135	21.30	77M4G7D
	80 MHz	QPSK	3740.0 - 3940.0	0.134	21.27	77M5G7D
		16QAM	3740.0 - 3940.0	0.112	20.49	77M6W7D
		π/2 BPSK	3735.0 - 3945.0	0.137	21.36	64M4G7D
	70 MHz	QPSK	3735.0 - 3945.0	0.137	21.38	64M5G7D
		16QAM	3735.0 - 3945.0	0.115	20.60	64M5W7D
		π/2 BPSK	3730.0 - 3950.0	0.138	21.41	58M2G7D
	60 MHz	QPSK	3730.0 - 3950.0	0.122	20.87	58M0G7D
		16QAM	3730.0 - 3950.0	0.099	19.94	58M0W7D
NR Band n77 PC3		π/2 BPSK	3725.0 - 3955.0	0.133	21.24	45M9G7D
(3700 - 3980MHz)	50 MHz	QPSK	3725.0 - 3955.0	0.127	21.05	47M6G7D
C-Band		16QAM	3725.0 - 3955.0	0.091	19.59	47M7W7D
	40 MHz	π/2 BPSK	3720.0 - 3960.0	0.140	21.47	35M9G7D
		QPSK	3720.0 - 3960.0	0.125	20.96	38M0G7D
		16QAM	3720.0 - 3960.0	0.097	19.86	37M9W7D
	30 MHz	π/2 BPSK	3715.0 - 3965.0	0.140	21.45	26M9G7D
		QPSK	3715.0 - 3965.0	0.130	21.15	28M0G7D
		16QAM	3715.0 - 3965.0	0.097	19.88	28M0W7D
		π/2 BPSK	3710.0 - 3970.0	0.135	21.31	18M0G7D
	20 MHz	QPSK	3710.0 - 3970.0	0.127	21.05	18M3G7D
		16QAM	3710.0 - 3970.0	0.095	19.78	18M3W7D
		π/2 BPSK	3707.5 - 3972.5	0.135	21.30	13M0G7D
	15 MHz	QPSK	3707.5 - 3972.5	0.124	20.95	13M6G7D
		16QAM	3707.5 - 3972.5	0.090	19.54	13M7W7D
		π/2 BPSK	3705.0 - 3975.0	0.129	21.10	8M72G7D
	10 MHz	QPSK	3705.0 - 3975.0	0.124	20.92	8M65G7D
		16QAM	3705.0 - 3975.0	0.106	20.25	8M70W7D

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				EI	RP	
Mode	Mode Bandwidth		Tx Frequency Range [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		π/2 BPSK	3500.0	0.136	21.35	96M9G7D
	100 MHz	QPSK	3500.0	0.138	21.39	97M7G7D
		16QAM	3500.0	0.102	20.11	98M1W7D
		π/2 BPSK	3495.0 - 3505.0	0.137	21.37	87M2G7D
	90 MHz	QPSK	3495.0 - 3505.0	0.143	21.55	87M8G7D
		16QAM	3495.0 - 3505.0	0.104	20.17	87M7W7D
		π/2 BPSK	3490.0 - 3510.0	0.139	21.42	77M3G7D
	80 MHz	QPSK	3490.0 - 3510.0	0.139	21.44	77M6G7D
		16QAM	3490.0 - 3510.0	0.103	20.12	77M8W7D
		π/2 BPSK	3485.0 - 3515.0	0.137	21.36	64M6G7D
	70 MHz	QPSK	3485.0 - 3515.0	0.139	21.42	67M9G7D
		16QAM	3485.0 - 3515.0	0.102	20.07	67M9W7D
	60 MHz	π/2 BPSK	3480.0 - 3520.0	0.151	21.80	58M1G7D
		QPSK	3480.0 - 3520.0	0.156	21.93	58M0G7D
		16QAM	3480.0 - 3520.0	0.115	20.61	58M1W7D
NR Band n77 PC3		π/2 BPSK	3475.0 - 3525.0	0.151	21.80	46M1G7D
(3450 - 3550MHz)	50 MHz	QPSK	3475.0 - 3525.0	0.154	21.86	47M7G7D
DoD-Band		16QAM	3475.0 - 3525.0	0.112	20.51	48M0W7D
		π/2 BPSK	3470.0 - 3530.0	0.157	21.95	36M0G7D
	40 MHz	QPSK	3470.0 - 3530.0	0.162	22.09	38M0G7D
		16QAM	3470.0 - 3530.0	0.117	20.68	38M0W7D
		π/2 BPSK	3465.0 - 3535.0	0.160	22.03	27M1G7D
	30 MHz	QPSK	3465.0 - 3535.0	0.161	22.08	28M1G7D
		16QAM	3465.0 - 3535.0	0.114	20.58	28M2W7D
		π/2 BPSK	3460.0 - 3540.0	0.162	22.09	18M1G7D
	20 MHz	QPSK	3460.0 - 3540.0	0.168	22.26	18M4G7D
		16QAM	3460.0 - 3540.0	0.115	20.59	18M3W7D
		π/2 BPSK	3457.5 - 3542.5	0.158	21.98	13M0G7D
	15 MHz	QPSK	3457.5 - 3542.5	0.156	21.94	13M7G7D
		16QAM	3457.5 - 3542.5	0.115	20.61	13M7W7D
		π/2 BPSK	3455.0 - 3545.0	0.152	21.83	8M73G7D
	10 MHz	QPSK	3455.0 - 3545.0	0.155	21.91	8M72G7D
		16QAM	3455.0 - 3545.0	0.113	20.51	8M70W7D

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMS901E**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 27.

Test Device Serial No.: 1755M, 0985M, 2226V, 2346V, 1838M

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer

2.3 Test Configuration

The EUT was tested per the guidance of ANSI/TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: EP-N5100 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-E-2016) and "Measurement Guidance for Certification of Licensed Digital Transmitters" (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure......None

3.2 Radiated Power and Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated power measurements, substitution method is used per the guidance of ANSI/TIA-603-E-2016. A half-wave dipole is substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

 $P_{d [dBm]} = P_{g [dBm]} - cable loss [dB] + antenna gain [dBd/dBi];$

where P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to P_{g [dBm]} – cable loss [dB].

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

 $E_{[dB\mu V/m]} = Measured amplitude level_{[dBm]} + 107 + Cable Loss_{[dB]} + Antenna Factor_{[dB/m]}$ And

 $EIRP_{[dBm]} = E_{[dB\mu V/m]} + 20logD - 104.8$; where D is the measurement distance in meters.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI/TIA-603-E-2016.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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TEST EQUIPMENT CALIBRATION DATA 5.0

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	AP1	EMC Cable and Switch System	3/9/2021	Annual	3/9/2022	AP1
-	ETS	EMC Cable and Switch System	3/4/2021	Annual	3/4/2022	ETS
-	LTx1	Licensed Transmitter Cable Set	3/12/2021	Annual	3/12/2022	LTx1
-	LTx2	Licensed Transmitter Cable Set	3/12/2021	Annual	3/12/2022	LTx2
Agilent	E5515C	Wireless Communications Test Set		N/A		GB45360985
Anritsu	MT8821C	Radio Communication Analyzer		N/A		6201525694
Emco	3115	Horn Antenna (1-18GHz)	6/18/2020	Biennial	6/18/2022	9704-5182
Emco	3116	Horn Antenna (18 - 40GHz)	7/20/2021	Biennial	7/20/2023	9203-2178
Espec	ESX-2CA	Environmental Chamber	8/27/2020	Annual	8/27/2022	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	4/20/2021	Biennial	4/20/2023	00125518
ETS Lindgren	3164-10	Quad Ridge Horn 400MHz - 10000MHz	5/10/2021	Biennial	5/10/2023	00166283
ETS Lindgren	3816/2NM	LISN	7/9/2020	Biennial	7/9/2022	00114451
Keysight Technologies	N9030A	PXA Signal Analyzer	1/6/2022	Annual	1/6/2023	MY55410501
Keysight Technologies	N9038A	MXE EMI Receiver	1/21/2022	Annual	1/21/2023	MY51210133
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator	N/A		11403100002	
Rohde & Schwarz	CMW500	Radio Communication Tester	N/A		100976	
Rohde & Schwarz	CMW500	Radio Communication Tester	N/A		112347	
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz) 8/10/2021 Annual 8/10/202		8/10/2022	6262150000	
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	5/25/2021	Annual	5/25/2022	100348
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	8/25/2021	Annual	8/25/2022	103200
Sunol	JB6	LB6 Antenna	11/13/2020	Biennial	11/13/2022	A082816

Table 5-1. Test Equipment

Notes:

1. Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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6.0 SAMPLE CALCULATIONS

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz G = Phase Modulation 7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz W = Amplitude/Angle Modulated 7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

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7.0 TEST RESULTS

7.1 Summary

Company Name: <u>Samsung Electronics Co., Ltd.</u>

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FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

Mode(s): NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
	Transmitter Conducted Output Power	2.1046(a), 2.1046(c)	N/A	PASS	Section 7.2
<u> </u>	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3
CONDUCTED	Conducted Band Edge / Spurious Emissions (NR Band n77)	2.1051, 27.53(I), 27.53(n)	≤ 13 dBm / MHz	PASS	Sections 7.4, 7.5
8	Peak-to-Average Ratio (NR Band n77)	27.53(j)(4), 27.53(k)(4)	≤ 13 dB	PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block.	PASS	Section 7.9
RADIATED	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n77)	27.53(j)(3), 27.53(k)(3)	≤ 1 Watt EIRP	PASS	Section 7.7
RADI	Radiated Spurious Emissions (NR Band n77)	2.1053, 27.53(I), 27.53(n)	≤ 13 dBm / MHz	PASS	Section 7.8

^{*} The only transmitter output conducted powers included in this report are those where the Pmax value, per the tune-up document, is higher than any of the DSI power levels. For the remaining conducted power measurements, see the **RF Exposure Report**.

Table 7-1. Summary of Test Results

Notes:

- All modes of operation and data rates were investigated. The test results shown in the following sections
 represent the worst case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST EMC Software Tool v1.0.

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7.2 Conducted Power Output Data

§2.1046

Test Overview

The EUT is set up to transmit at maximum power. All power levels are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Span = $2 \times OBW$ to $3 \times OBW$
- 2. RBW = 1% to 5% of the OBW
- 3. Number of measurement points in sweep > 2 x span / RBW
- 4. Sweep = auto-couple (less than transmission burst duration)
- 5. Detector = RMS (power)
- 6. Trigger was set to enable power measurements only on full power bursts
- 7. Trace was allowed to stabilize
- 8. Spectrum analyzer's "Channel Power" function was used to compute the power by integrating the spectrum across the OBW of the signal

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

Test Notes:

- 1. Conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 2. All other conducted power measurements are contained in the RF exposure report for this filing.

FCC ID: A3LSMS901E	POTEST PROJECT OF SHARRASH	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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T/2 BPSK 666000 3840.00 1/25 24.07		16-QAM				
H 664666 3969.99 1/25 24.37 647334 3710.01 1/25 23.73 QPSK 664666 3969.99 1/25 24.14 16-QAM 656000 3840.00 1/25 23.82			647334	3710.01		
QPSK 647334 3710.01 1/25 23.73 656000 3840.00 1/25 24.01 664666 3969.99 1/25 24.14 16-QAM 656000 3840.00 1/25 23.82		π/2 BPSK				
664666 3969.99 1 / 25 24.14 16-QAM 656000 3840.00 1 / 25 23.82	뒾					
664666 3969.99 1 / 25 24.14 16-QAM 656000 3840.00 1 / 25 23.82	0	ODOK				
16-QAM 656000 3840.00 1 / 25 23.82	N	ursk.				
		16-QAM				
			647167	3707.51	1 / 28	23.59
π/2 BPSK 656000 3840.00 1 / 28 24.04		π/2 BPSK				
<u>보</u> 664499 3972.50 1 / 19 24.36	15 MHz					
≥ 647167 3707.51 1 / 28 23.81						
		QPSK				
664499 3972.50 1 / 19 24.05 16-QAM 656000 3840.00 1 / 28 23.58		16-OAM				
16-QAW 656000 3840.00 17.28 23.58 647000 3705.00 17.17 23.78		10-QAIVI				
π/2 BPSK 656000 3840.00 1 / 12 23.67		π/2 BPSK				
	보					
647000 3705.00 1 / 17 23.63	Σ		647000	3705.00		
	5	QPSK				
664332 3975.00 1/6 24.01		16 0014				
23.28 16-QAM 664332 3975.00 1 / 6 23.28 27-1. Conducted Power Output Data (n77 (C-Band) –	74.0					

Table 7-1. Conducted Power Output Data (n77 (C-Band) - ANT G)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
		650000	3750.00	1 / 136	19.84
	π/2 BPSK	656000	3840.00	1 / 68	19.36
100 MHz		662000	3930.00	1 / 68	18.37
	QPSK 16-QAM	650000	3750.00	1 / 136	19.89
		656000	3840.00	1 / 68	18.99
		662000	3930.00	1 / 68	17.46
		650000	3750.00	1 / 136	19.19
		656000	3840.00	1 / 68	18.36
		662000	3930.00	1 / 68	16.90

Table 7-2. Conducted Power Output Data (n77 (C-Band) SRS2 - ANT C)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
		650000	3750.00	1 / 136	21.38
	π/2 BPSK	656000	3840.00	1 / 136	21.89
100		662000	3930.00	1 / 136	22.17
		650000	3750.00	1 / 136	21.43
	QPSK	656000	3840.00	1 / 136	21.79
		662000	3930.00	1 / 136	22.19
	16-QAM	650000	3750.00	1 / 136	20.70
		656000	3840.00	1 / 136	20.72
		662000	3930.00	1 / 136	21.37

Table 7-3. Conducted Power Output Data (n77 (C-Band) SRS3 - ANT H)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
		650000	3750.00	1 / 204	14.94
TI/2 BPSK QPSK 16-QAM	π/2 BPSK	656000	3840.00	1 / 204	17.94
		662000	3930.00	1 / 68	18.72
		650000	3750.00	1 / 204	15.00
		656000	3840.00	1 / 204	17.29
		662000	3930.00	1 / 68	17.69
		650000	3750.00	1 / 204	14.21
		656000	3840.00	1 / 204	16.74
		662000	3930.00	1 / 68	17.12

Table 7-4. Conducted Power Output Data (n77 (C-Band) SRS4 - ANT D)

FCC ID: A3LSMS901E	POTEST -	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
보	π/2 BPSK	633334	3500.01	1 / 68	23.49
100 MHz	QPSK	633334	3500.01	1 / 68	23.52
10(16-QAM	633334	3500.01	1 / 68	22.84
		633000	3495.00	1 / 61	23.51
	π/2 BPSK	633334	3500.01	1 / 61	23.50
90 MHz		633666	3504.99	1 / 61	23.48
2 0	QPSK	633000	3495.00	1 / 183	23.43
6	QPSK	633334 633666	3500.01 3504.99	1 / 61	23.68 23.48
	16-QAM	633334	3500.01	1 / 61	22.91
		632668	3490.02	1 / 54	23.56
	π/2 BPSK	633334	3500.01	1 / 162	23.39
ΉZ		634000	3510.00	1 / 54	23.40
80 MHz	ODOK	632668	3490.02	1 / 54	23.54
8	QPSK	633334 634000	3500.01 3510.00	1 / 162 1 / 54	23.47 23.57
	16-QAM	634000	3510.00	1 / 54	22.86
		632334	3485.01	1 / 47	23.50
	π/2 BPSK	633334	3500.01	1 / 94	23.49
拓		634332	3514.98	1 / 141	23.44
70 MHz		632334	3485.01	1 / 47	23.44
7	QPSK	633334	3500.01 3514.98	1 / 94	23.55
	16-QAM	634332 633334	3514.98	1 / 141	23.45 22.80
	10-WAIVI	632000	3480.00	1 / 121	23.94
	π/2 BPSK	633334	3500.01	1 / 81	23.90
Ŧ		634666	3519.99	1 / 81	23.77
60 MHz		632000	3480.00	1 / 121	23.95
09	QPSK	633334	3500.01	1 / 81	24.06
	40.0444	634666	3519.99	1 / 81	23.85
	16-QAM	633334 631668	3500.01 3475.02	1 / 81	23.35
	π/2 BPSK	633334	3500.01	1 / 99	23.89 23.93
50 MHz		635000	3525.00	1 / 33	23.75
		631668	3475.02	1 / 99	23.90
	QPSK	633334	3500.01	1 / 33	23.99
		635000	3525.00	1 / 33	23.86
	16-QAM	633334	3500.01	1 / 33	23.25
	π/2 BPSK	631334 633334	3470.01 3500.01	1 / 79	24.09 24.03
z	IIIZ DI OK	635332	3529.98	1 / 79	23.99
ZHW 01		631334	3470.01	1 / 79	24.22
40	QPSK	633334	3500.01	1 / 79	24.13
		635332 631334	3529.98	1 / 79	24.03
	16-QAM		3470.01	1 / 79	23.41
	π/2 BPSK	631000	3465.00	1 / 58	24.17
N	II/2 BPSK	633334 635666	3500.01 3534.99	1 / 58 1 / 58	23.99 23.97
MH		631000	3465.00	1 / 58	24.21
30 MHz	QPSK	633334	3500.01	1 / 58	24.00
		635666	3534.99	1 / 58	24.00
	16-QAM	631000	3465.00	1 / 58	23.32
	-/0 PDC//	630668	3460.02	1 / 37	24.23
N	π/2 BPSK	633334 636000	3500.01 3540.00	1 / 37	23.96
20 MHz		630668	3540.00 3460.02	1/37	24.14 24.39
20	QPSK	633334	3500.01	1 / 37	23.99
		636000	3540.00	1 / 37	24.09
	16-QAM	636000	3540.00	1 / 37	23.33
		630500	3457.50	1 / 19	24.11
MHz	π/2 BPSK	633334	3500.01	1 / 28	23.89
		636166	3542.49	1 / 28	24.04
15 1	QPSK	630500 633334	3457.50 3500.01	1 / 19 1 / 28	24.06 23.98
		636166	3542.49	1 / 28	24.06
	16-QAM	630500	3457.50	1 / 19	23.35
		630334	3455.01	1 / 17	23.93
	π/2 BPSK	633334	3500.01	1 / 17	23.97
불		636332	3544.98	1 / 17	23.88
10 MHz	OBSIA	630334	3455.01	1 / 17	23.84
-	QPSK	633334 636332	3500.01 3544.98	1 / 17	24.02 24.04
	16-QAM	636332	3544.98	1 / 17	23.25
7-5. Cond					

Table 7-5. Conducted Power Output Data (n77 (DoD Band) – ANT G)

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	π/2 BPSK	633334	3500.01	1 / 136	19.91
	QPSK	633334	3500.01	1 / 136	19.95
	16-QAM	633334	3500.01	1 / 136	19.25

Table 7-6. Conducted Power Output Data (n77 (DoD Band) SRS2 – ANT C)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
MHz	π/2 BPSK	633334	3500.01	1 / 204	22.45
	QPSK	633334	3500.01	1 / 204	22.47
100	16-QAM	633334	3500.01	1 / 204	21.63

Table 7-7. Conducted Power Output Data (n77 (DoD Band) SRS3 – ANT H)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
0 MHz	π/2 BPSK	633334	3500.01	1 / 136	19.71
	QPSK	633334	3500.01	1 / 136	19.28
100	16-QAM	633334	3500.01	1 / 136	18.69

Table 7-8. Conducted Power Output Data (n77 (DoD Band) SRS4 – ANT D)

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7.3 Occupied Bandwidth

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 4.2

Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2-7 were repeated after changing the RBW such that it would be within
 - 1 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

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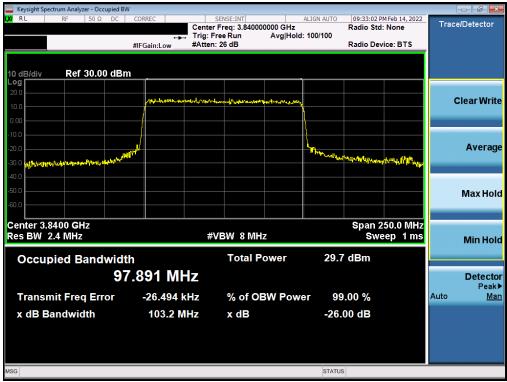
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NR Band n77 - C-Band - Ant G - SRS1



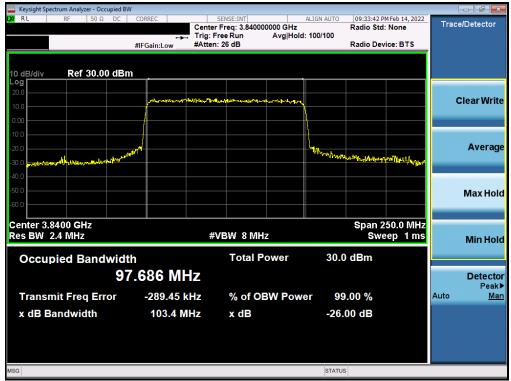
Plot 7-9. Occupied Bandwidth Plot (NR Band n77 - 100MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-10. Occupied Bandwidth Plot (NR Band n77 - 100MHz QPSK - Full RB - Ant G - SRS1

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Plot 7-11. Occupied Bandwidth Plot (NR Band n77 - 100MHz 16-QAM - Full RB - Ant G - SRS1)



Plot 7-12. Occupied Bandwidth Plot (NR Band n77 - 90MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-13. Occupied Bandwidth Plot (NR Band n77 - 90MHz QPSK - Full RB - Ant G - SRS1)



Plot 7-14. Occupied Bandwidth Plot (NR Band n77 - 90MHz 16-QAM - Full RB - Ant G - SRS1)

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Plot 7-15. Occupied Bandwidth Plot (NR Band n77 - 80MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-16. Occupied Bandwidth Plot (NR Band n77 - 80MHz QPSK - Full RB - Ant G - SRS1)

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Plot 7-17. Occupied Bandwidth Plot (NR Band n77 - 80MHz 16-QAM - Full RB - Ant G - SRS1)



Plot 7-18. Occupied Bandwidth Plot (NR Band n77 - 70MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-19. Occupied Bandwidth Plot (NR Band n77 - 70MHz QPSK - Full RB - Ant G - SRS1)



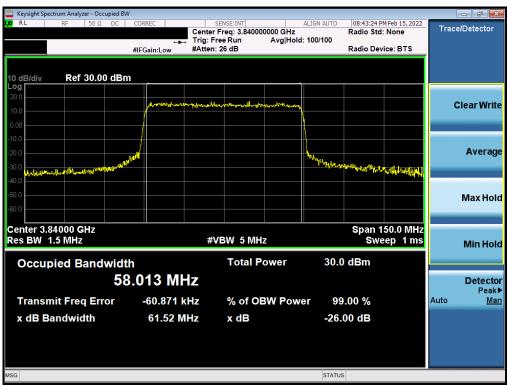
Plot 7-20. Occupied Bandwidth Plot (NR Band n77 - 70MHz 16-QAM - Full RB - Ant G - SRS1)

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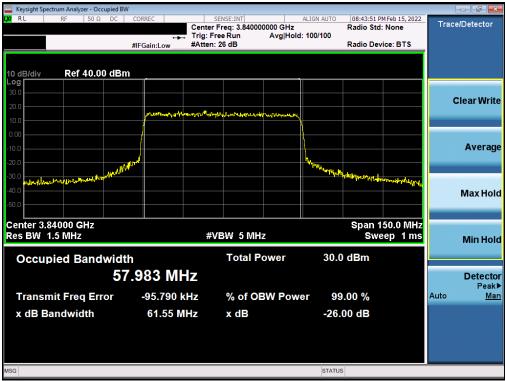
Plot 7-21. Occupied Bandwidth Plot (NR Band n77 - 60MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-22. Occupied Bandwidth Plot (NR Band n77 - 60MHz QPSK - Full RB - Ant G - SRS1)

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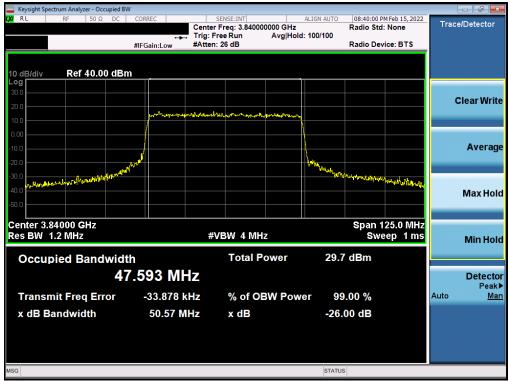
Plot 7-23. Occupied Bandwidth Plot (NR Band n77 - 60MHz 16-QAM - Full RB - Ant G - SRS1)



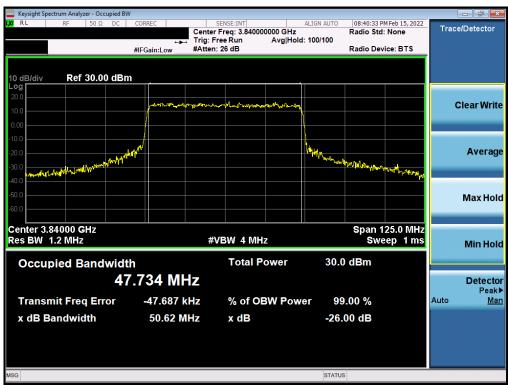
Plot 7-24. Occupied Bandwidth Plot (NR Band n77 - 50MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-25. Occupied Bandwidth Plot (NR Band n77 - 50MHz QPSK - Full RB - Ant G - SRS1)



Plot 7-26. Occupied Bandwidth Plot (NR Band n77 - 50MHz 16-QAM - Full RB - Ant G - SRS1)

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Plot 7-27. Occupied Bandwidth Plot (NR Band n77 - 40MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-28. Occupied Bandwidth Plot (NR Band n77 - 40MHz QPSK - Full RB - Ant G - SRS1)

FCC ID: A3LSMS901E	POTEST PROJECT OF SHARRASH	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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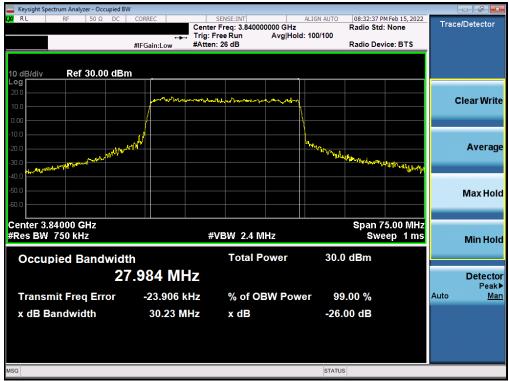
Plot 7-29. Occupied Bandwidth Plot (NR Band n77 - 40MHz 16-QAM - Full RB - Ant G - SRS1)



Plot 7-30. Occupied Bandwidth Plot (NR Band n77 - 30MHz π/2 BPSK - Full RB - Ant G - SRS1)

FCC ID: A3LSMS901E	POTEST PROJECT OF SHARRASH	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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Plot 7-31. Occupied Bandwidth Plot (NR Band n77 - 30MHz QPSK - Full RB - Ant G - SRS1)



Plot 7-32. Occupied Bandwidth Plot (NR Band n77 - 30MHz 16-QAM - Full RB - Ant G - SRS1)

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Plot 7-33. Occupied Bandwidth Plot (NR Band n77 - 20MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-34. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant G - SRS1)

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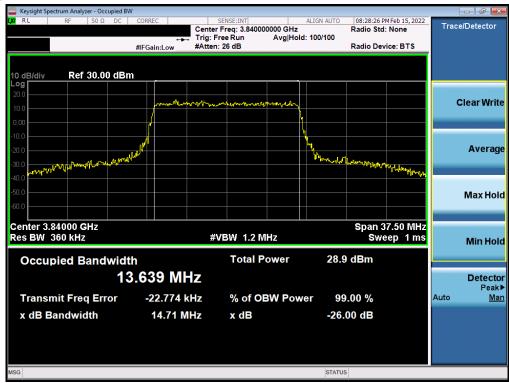
Plot 7-35. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant G - SRS1)



Plot 7-36. Occupied Bandwidth Plot (NR Band n77 - 15MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-37. Occupied Bandwidth Plot (NR Band n77 - 15MHz QPSK - Full RB - Ant G - SRS1)



Plot 7-38. Occupied Bandwidth Plot (NR Band n77 - 15MHz 16-QAM - Full RB - Ant G - SRS1)

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Plot 7-39. Occupied Bandwidth Plot (NR Band n77 - 10MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-40. Occupied Bandwidth Plot (NR Band n77 - 10MHz QPSK - Full RB - Ant G - SRS1)

FCC ID: A3LSMS901E	POTEST PROJECT OF SHARRASH	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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Plot 7-41. Occupied Bandwidth Plot (NR Band n77 - 10MHz 16-QAM - Full RB - Ant G - SRS1)

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NR Band n77 - DoD Band - Ant G - SRS1



Plot 7-42. Occupied Bandwidth Plot (NR Band n77 - 100MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-43. Occupied Bandwidth Plot (NR Band n77 - 100MHz QPSK - Full RB - Ant G - SRS1)

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Plot 7-44. Occupied Bandwidth Plot (NR Band n77 - 100MHz 16-QAM - Full RB - Ant G - SRS1)



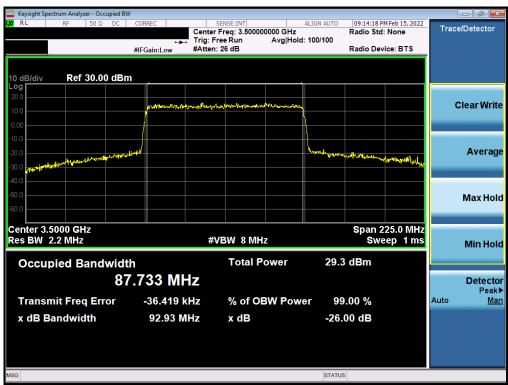
Plot 7-45. Occupied Bandwidth Plot (NR Band n77 - 90MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-46. Occupied Bandwidth Plot (NR Band n77 - 90MHz QPSK - Full RB - Ant G - SRS1)



Plot 7-47. Occupied Bandwidth Plot (NR Band n77 - 90MHz 16-QAM - Full RB - Ant G - SRS1)

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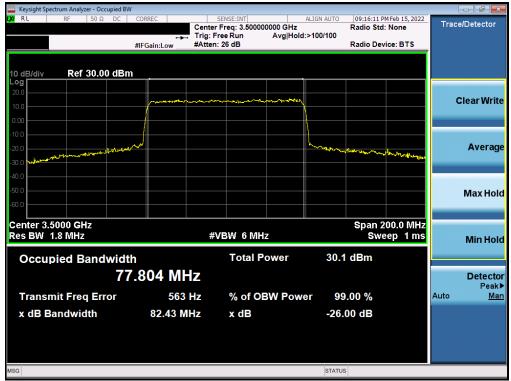
Plot 7-48. Occupied Bandwidth Plot (NR Band n77 - 80MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-49. Occupied Bandwidth Plot (NR Band n77 - 80MHz QPSK - Full RB - Ant G - SRS1)

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Plot 7-50. Occupied Bandwidth Plot (NR Band n77 - 80MHz 16-QAM - Full RB - Ant G - SRS1)



Plot 7-51. Occupied Bandwidth Plot (NR Band n77 - 70MHz π/2 BPSK - Full RB - Ant G - SRS1)

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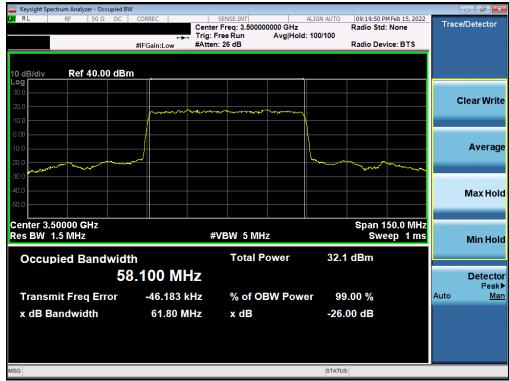
Plot 7-52. Occupied Bandwidth Plot (NR Band n77 - 70MHz QPSK - Full RB - Ant G - SRS1)



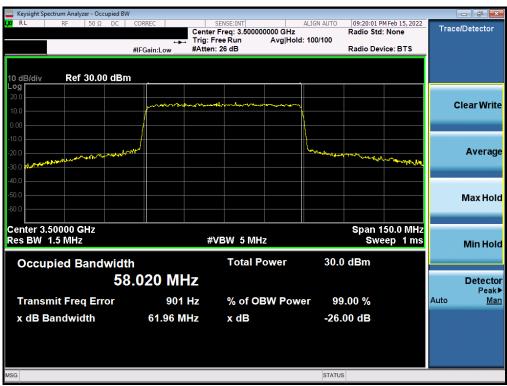
Plot 7-53. Occupied Bandwidth Plot (NR Band n77 - 70MHz 16-QAM - Full RB - Ant G - SRS1)

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Plot 7-54. Occupied Bandwidth Plot (NR Band n77 - 60MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-55. Occupied Bandwidth Plot (NR Band n77 - 60MHz QPSK - Full RB - Ant G - SRS1)

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Plot 7-56. Occupied Bandwidth Plot (NR Band n77 - 60MHz 16-QAM - Full RB - Ant G - SRS1)



Plot 7-57. Occupied Bandwidth Plot (NR Band n77 - 50MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-58. Occupied Bandwidth Plot (NR Band n77 - 50MHz QPSK - Full RB - Ant G - SRS1)



Plot 7-59. Occupied Bandwidth Plot (NR Band n77 - 50MHz 16-QAM - Full RB - Ant G - SRS1)

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Plot 7-60. Occupied Bandwidth Plot (NR Band n77 - 40MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-61. Occupied Bandwidth Plot (NR Band n77 - 40MHz QPSK - Full RB - Ant G - SRS1)

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Plot 7-62. Occupied Bandwidth Plot (NR Band n77 - 40MHz 16-QAM - Full RB - Ant G - SRS1)



Plot 7-63. Occupied Bandwidth Plot (NR Band n77 - 30MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-64. Occupied Bandwidth Plot (NR Band n77 - 30MHz QPSK - Full RB - Ant G - SRS1)



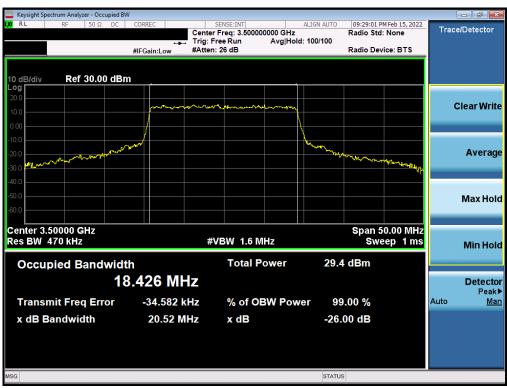
Plot 7-65. Occupied Bandwidth Plot (NR Band n77 - 30MHz 16-QAM - Full RB - Ant G - SRS1)

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Plot 7-66. Occupied Bandwidth Plot (NR Band n77 - 20MHz π/2 BPSK - Full RB - Ant G - SRS1)



Plot 7-67. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant G - SRS1)

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Plot 7-68. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant G - SRS1)



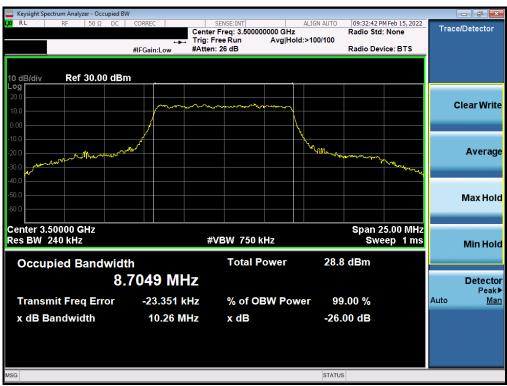
Plot 7-69. Occupied Bandwidth Plot (NR Band n77 - 10MHz π/2 BPSK - Full RB - Ant G - SRS1)

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Plot 7-70. Occupied Bandwidth Plot (NR Band n77 - 10MHz QPSK - Full RB - Ant G - SRS1)



Plot 7-71. Occupied Bandwidth Plot (NR Band n77 - 10MHz 16-QAM - Full RB - Ant G - SRS1)

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7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

- 1. Per Part 27 and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

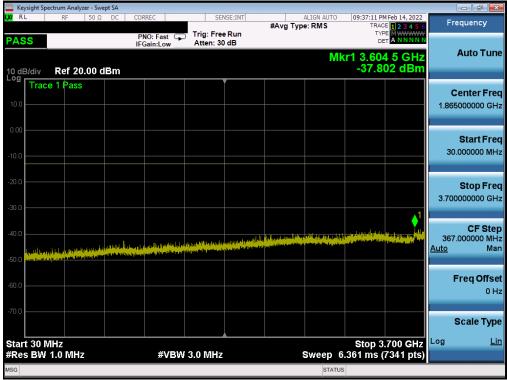
FCC ID: A3LSMS901E	POTEST PROJECT OF SHARRASH	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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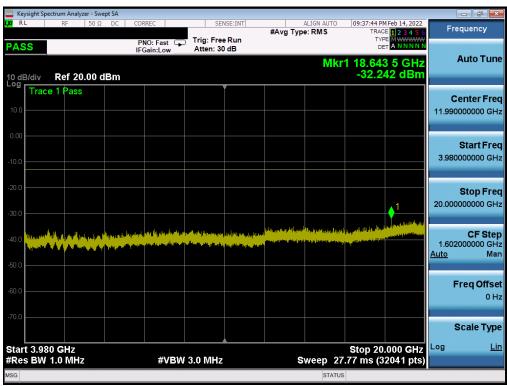
V3.0 1/6/2022
All rights recorded Upleas attention appeting the part of this report may be reproduced as utilized in any part form or by any magnetic producing and including abstraction of machine in a part of this report may be reproduced as utilized in any part form or by any magnetic producing and including abstraction of machine in a part of this report may be reproduced as utilized in any part form or by any magnetic producing abstraction of the part of the part



NR Band n77 - C-Band - Ant G - SRS 1



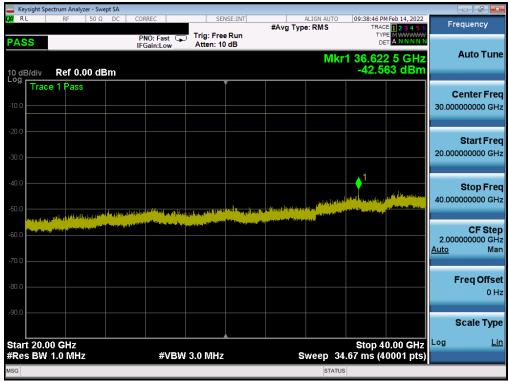
Plot 7-72. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant G - SRS 1)



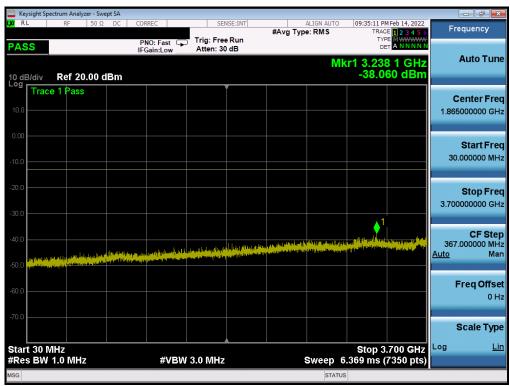
Plot 7-73. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant G - SRS 1)

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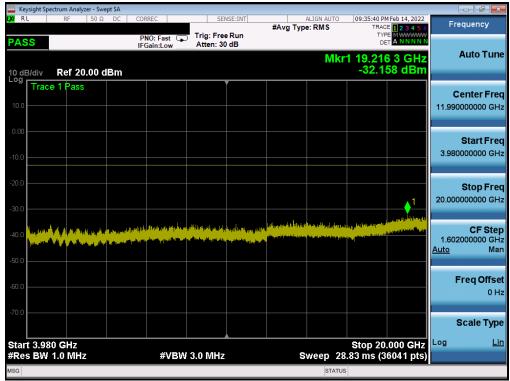
Plot 7-74. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant G - SRS 1)



Plot 7-75. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant G - SRS 1)

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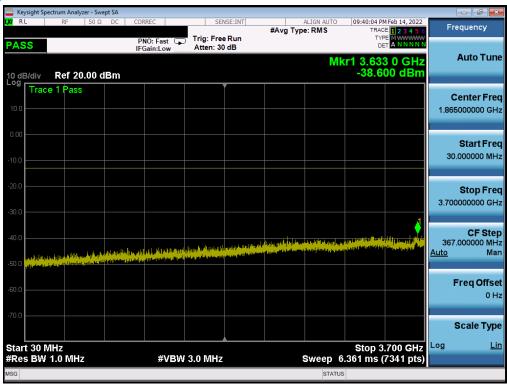
Plot 7-76. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant G - SRS 1)



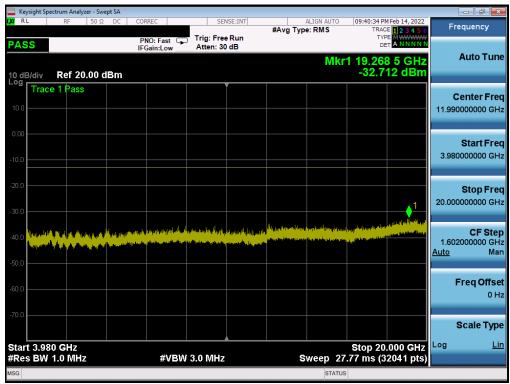
Plot 7-77. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant G - SRS 1)

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Plot 7-78. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant G - SRS 1)



Plot 7-79. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant G - SRS 1)

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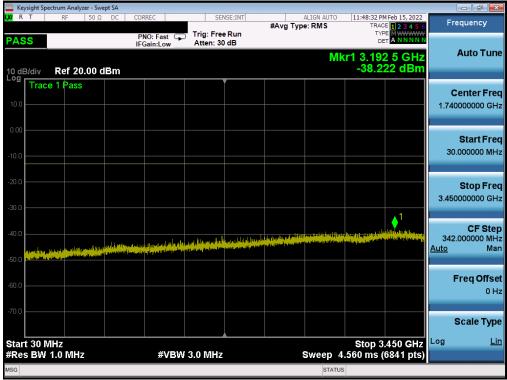


Plot 7-80. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant G - SRS 1)

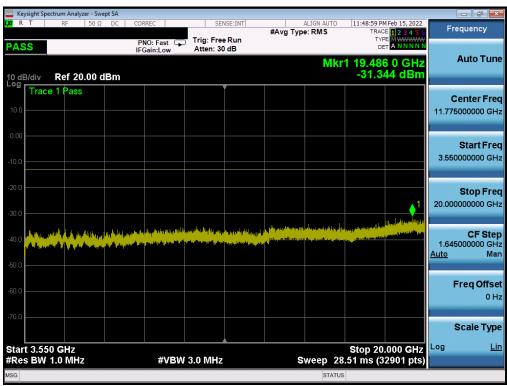
FCC ID: A3LSMS901E	POTEST*	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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NR Band n77 - DoD-Band - Ant G - SRS 1



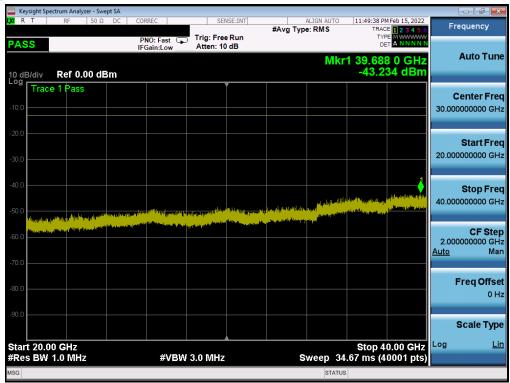
Plot 7-81. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant G - SRS 1)



Plot 7-82. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant G - SRS 1)

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Plot 7-83. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant G - SRS 1)

FCC ID: A3LSMS901E	POTEST PROJECT OF GRANDER	PART 27 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	Approved by: Technical Manager
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7.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW \geq 1% of the emission bandwidth
- 4. $VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

- 1. Per 27.53(h), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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NR Band n77 - C-Band - Ant G - SRS 1



Plot 7-84. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)



Plot 7-85. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)

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Plot 7-86. Lower ACP Plot (NR Band n77 - 90MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)



Plot 7-87. Upper ACP Plot (NR Band n77 - 90MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)

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Plot 7-88. Lower ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)



Plot 7-89. Upper ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)

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Plot 7-90. Lower ACP Plot (NR Band n77 - 70MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)



Plot 7-91. Upper ACP Plot (NR Band n77 - 70MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)

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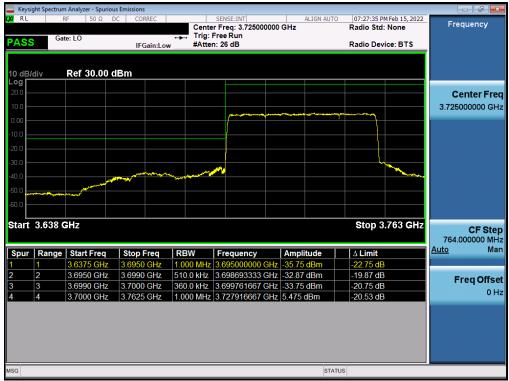
Plot 7-92. Lower ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)



Plot 7-93. Upper ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)

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Plot 7-94. Lower ACP Plot (NR Band n77 - 50MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)



Plot 7-95. Upper ACP Plot (NR Band n77 - 50MHz CP-OFDM-QPSK - Full RB - C-Band - Ant G - SRS 1)

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