

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description: Wireless Home Phone
Applicant: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300,
Taiwan
Manufacturer: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300,
Taiwan
Brand Name: Verizon
Model No. VG10A
Family Model No.: VG11A
Model Difference: For marketing purposes only
Report Number: TERF2511003794ER
FCC ID NKRGENESIS
Date of EUT Received: November 12, 2025
Date of Test: November 18, 2025 ~ March 30, 2026
Issue Date: April 15, 2026

Approved By**Jazz Huang****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, And equipment configurations shown In this report were made In accordance With the procedures given In ANSI C63.26:2015 And the energy emitted by the sample EUT comply With FCC Part2, 96E.
The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2511003794ER	00	Original	April 8, 2026	Candice Li	
TERF2511003794ER	01	Modify Antenna Designation, Type of Emission, ERP/EIRP	April 15, 2026	Candice Li	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、During the testing period, the EUT underwent component changes; therefore, additional measurements of Field Strength Of Spurious Radiation were performed.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

EUT Description	Wireless Home Phone
Brand Name	Verizon
Model No.	VG10A
Family Model No.:	VG11A
Model Difference:	For marketing purposes only
EUT Series No.	ADE54300052
Power Supply	6 Vdc from 4*AA Battery 5 Vdc from AC/DC Adapter with 110~240V AC input.
Test Software (Name/Version)	Connected with callbox

1.2 Antenna Designation

Antenna Type	Model No.	Antenna No.
PIFA	3S.008K0.111	Cellular_Main
Note: Transmission frequencies in this test report are only available by the above antenna(s).		

Band	Frequency Range (MHz)	Cellular_Main Antenna Gain (dBi)
Band 48 / n48	3550 ~ 3700	-0.3

Note: The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

1.3 Operating Frequencies

LTE

Band	Bandwidth(MHz)	Low Frequency (MHz)	Upper Frequency (MHz)
LTE BAND 48-96	5.0	3552.50	3697.50
	10.0	3555.00	3695.00
	15.0	3557.50	3692.50
	20.0	3560.00	3690.00

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Band	Bandwidth(MHz)	Low Frequency (MHz)	Upper Frequency (MHz)
5G NR n48	10.0	3555.00	3694.98
	15.0	3557.52	3692.49
	20.0	3560.01	3690.00

1.4 Type of Emission & Max ERP/EIRP Power Measurement Result

LTE

Band	Technology (GSM, CDMA, etc...)	Frequency		Conducted Power (dBm)	Conducted Power (W)	ERP/EIRP (dBm)	ERP/EIRP (W)	Frequency Tolerance		Emission Designator (See 47 CFR 2.201 and 2.202)	BW(MHz)	Optional
		Min (MHz)	Max (MHz)					Value	%, Hz, ppm			
LTE B48-96	QPSK	3560.0	3690.0	18.86	0.077	18.56	0.072	0.0035	ppm	17M9G7D	20.0	Part96
LTE B48-96	QPSK	3555.0	3695.0	21.94	0.156	21.64	0.146	0.0035	ppm	9M00G7D	10.0	Part96
LTE B48-96	16QAM	3560.0	3690.0	18.51	0.071	18.21	0.066	0.0035	ppm	17M95D7W	20.0	Part96
LTE B48-96	16QAM	3555.0	3695.0	21.57	0.144	21.27	0.134	0.0035	ppm	9M01D7W	10.0	Part96

NR

Band	Technology (GSM, CDMA, etc...)	Frequency		Conducted Power (dBm)	Conducted Power (W)	ERP/EIRP (dBm)	ERP/EIRP (W)	Frequency Tolerance		Emission Designator (See 47 CFR 2.201 and 2.202)	BW(kHz)	Optional
		Min (MHz)	Max (MHz)					Value	%, Hz, ppm			
n48	DFT-s PI/2 BPSK	3560.0	3690.0	19.99	0.1	19.69	0.093	0.0034	ppm	17M9G7D	17886	Part96
n48	DFT-s PI/2 BPSK	3555.0	3695.0	23.13	0.206	22.83	0.192	0.0034	ppm	8M63G7D	8630.8	Part96
n48	DFT-s 16QAM	3560.0	3690.0	19.91	0.098	19.61	0.091	0.0034	ppm	17M9D7W	17916	Part96
n48	DFT-s 16QAM	3555.0	3695.0	22.63	0.183	22.33	0.171	0.0034	ppm	8M68D7W	8678.1	Part96

1.5 Final Amplifier Voltage and Current Information

LTE

LTE Band 48		
Test Mode	DC voltage (V)	DC current (mA)
LTE Band 48_20M QPSK	120	49

NR

5G NR BAND n48		
CP-OFDM_SCS 30 kHz		
Test mode	DC voltage (V)	DC current (mA)
Bandwidth:10MHz Mod:256QAM	120	87
Bandwidth:15MHz Mod:256QAM	120	89
Bandwidth:20MHz Mod:256QAM	120	86

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1.6 EUT Availability and The Worst Test Modes

1. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

LTE

LTE Band 48							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	55265 to 56715	55265, 55990, 56715	5	QPSK,16QAM,64QAM,256QAM	V	V	V
	55290 to 56690	55290, 55990, 56690	10		V	V	V
	55315 to 56665	55315, 56040, 56665	15		V	V	V
	55340 to 56640	55340, 56040, 56640	20		V	V	V
Frequency Stability	55290 to 56690	55990	10	QPSK	-	-	V
26dB and 99% Bandwidth	55265 to 56715	55265, 55990, 56715	5	QPSK,16QAM,64QAM,256QAM	-	-	V
	55290 to 56690	55290, 55990, 56690	10		-	-	V
	55315 to 56665	55315, 56040, 56665	15		-	-	V
	55340 to 56640	55340, 56040, 56640	20		-	-	V
Peak-to-Average Ratio	55265 to 56715	55265, 55990, 56715	5	256QAM	-	-	V
	55290 to 56690	55290, 55990, 56690	10		-	-	V
	55315 to 56665	55315, 56040, 56665	15		-	-	V
	55340 to 56640	55340, 56040, 56640	20		-	-	V
Out of Band Emissions at Antenna Terminals	55265 to 56715	55265, 55990, 56715	5	QPSK	V	-	V
	55290 to 56690	55290, 55990, 56690	10		V	-	V
	55315 to 56665	55315, 56040, 56665	15		V	-	V
	55340 to 56640	55340, 56040, 56640	20		V	-	V
Conducted Spurious Emission	55290 to 56690	55290, 55990, 56690	10	QPSK	V	-	-
Radiated Spurious Emission	55290 to 56690	55290, 55990, 56690	10	QPSK	V	-	-

Additional measurement

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Offset
48	56690	10	QPSK	1	0

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NR

5G NR Band n48	Test Channel			BW(MHz)	Modulation	RB allocation			
Test Item	Low	Mid	High			Edge 1RB	Inner 1RB	Inner Full RB	Outer Full RB
Max . OutPut Power	V	V	V	10, 15, 20	BPSK,QPSK,16QAM, 64QAM,256QAM	-	V	V	V
Frequency Stability	-	V	-	20	QPSK	-	-	-	V
26dB and 99% Bandwidth	V	V	V	10, 15, 20	BPSK,QPSK,16QAM, 64QAM,256QAM	-	-	-	V
Peak-to-Average Ratio	V	V	V	10, 15, 20	256QAM	-	-	-	V
Out of Band Emis-sions at Antenna Terminals	V	-	V	10	BPSK	V	-	-	V
Conducted Spurious Emission	V	V	V	10, 15, 20	BPSK	-	V	-	-
Radiated Spurious Emission	V	V	V	10	BPSK	-	V	-	-

Additional measurement

5G NR Band	SCS	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
					RBs allocated	RB Offset
n48	30K	637000	10	DFT-s Pl/2 BPSK	1	1

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§96.41(b)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§96.41(e)(2)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§96.41(e)(2)	Field Strength of Spurious Radiation	Compliant
§96.41(g)	Peak to Average Ratio	Compliant
	Frequency Stability	Compliant

2.1 Test Methodology of Applied Standards

1. FCC 47 CFR Part 2, Part 96E
2. ANSI C63.26:2015
3. FCC KDB 971168 D01 Power Meas License Digital System v03r01
4. FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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2.2 Measurement Uncertainty

Test Items	Uncertainty
Power Density	+/- 0.61 dB
Output Power measurement	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

Test Condition	Test Site name	Test Engineer	Test Environment (T&H)	Test Date
Conducted	Conducted 3	Brian Wang	23.5~25.4°C / 55~60%	2025/12/17 ~ 2026/01/26

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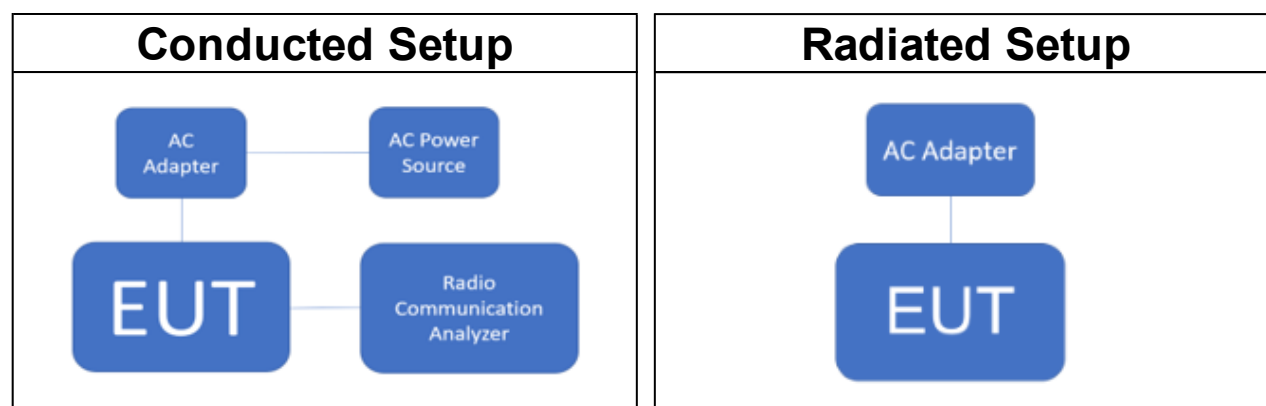
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

1. The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.
2. The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

3.2 Diagrams



3.3 List

3.3.1 Conducted Setup

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A

3.3.2 Radiated Setup

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A

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4 MEASUREMENT EQUIPMENT USED

4.1 Conducted Measurement

LTE

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Power Source	Gwinstek	APS-7050E	GEV171679	11/14/2025	11/13/2026
Attenuator	Mini-Circuits	BW-S10W2+	8	12/07/2025	12/06/2026
DC Block	Titan	T0610A00127A	SNK47001	12/07/2025	12/06/2026
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	04/16/2025	04/15/2026
Radio Communication Analyzer	Anritsu	MT8821C	6262044751	11/14/2025	11/13/2026
Splitter	RF-Lambda	RFLT2W1G18G	11-JSPF412-017	12/07/2025	12/06/2026
Splitter	mve	MVE8593	A500028	01/09/2026	01/08/2027
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/04/2025	06/03/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

NR

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Power Source	Gwinstek	APS-7050E	GEV171679	11/14/2025	11/13/2026
Attenuator	Mini-Circuits	BW-S10W2+	8	12/07/2025	12/06/2026
DC Block	Titan	T0610A00127A	SNK47001	12/07/2025	12/06/2026
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	04/16/2025	04/15/2026
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321561	07/17/2025	07/16/2026
Splitter	RF-Lambda	RFLT2W1G18G	11-JSPF412-017	12/07/2025	12/06/2026
Splitter	mve	MVE8593	A500028	01/09/2026	01/08/2027
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/04/2025	06/03/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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4.2 Radiated Measurement

LTE

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	23	12/07/2025	12/06/2026
Band Reject Filter 3300-3900	WI	WRCGV3400/3800- 3300/3900-40/12SS	1	12/07/2025	12/06/2026
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/29/2025	10/28/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	320	02/20/2025	02/19/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/20/2025	05/19/2026
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/31/2025	12/30/2026
Network Analyzer	R&S	ZNB 4	100947	12/18/2025	12/17/2026
Network Analyzer	R&S	ZNB 40	101842	05/20/2025	05/19/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Radio Communication Analyzer	Anritsu	MT8821C	6262044751	11/14/2025	11/13/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

Additional measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
Network Analyzer	R&S	ZNB 40	101842	05/20/2025	05/19/2026
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/18/2025	08/17/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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NR

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	23	12/07/2025	12/06/2026
Band Reject Filter 3300-3900	WI	WRCGV3400/3800- 3300/3900-40/12SS	1	12/07/2025	12/06/2026
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/29/2025	10/28/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	320	02/20/2025	02/19/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/20/2025	05/19/2026
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/31/2025	12/30/2026
Network Analyzer	R&S	ZNB 4	100947	12/18/2025	12/17/2026
Network Analyzer	R&S	ZNB 40	101842	05/20/2025	05/19/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321561	07/17/2025	07/16/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

Additional measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
Network Analyzer	R&S	ZNB 40	101842	05/20/2025	05/19/2026
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321561	07/17/2025	07/16/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Maximum Output Power

§96.41(b)

(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

5.2 Occupied Bandwidth

The occupied bandwidth 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.

5.3 Out Of Band Emission At Antenna Terminals

§96.41(e)(2)

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

5.4 Field Strength Of Spurious Radiation

§96.41(e)(2)

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

5.5 Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

5.6 Peak to Average Ratio

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

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6 TEST CONFIGURATION

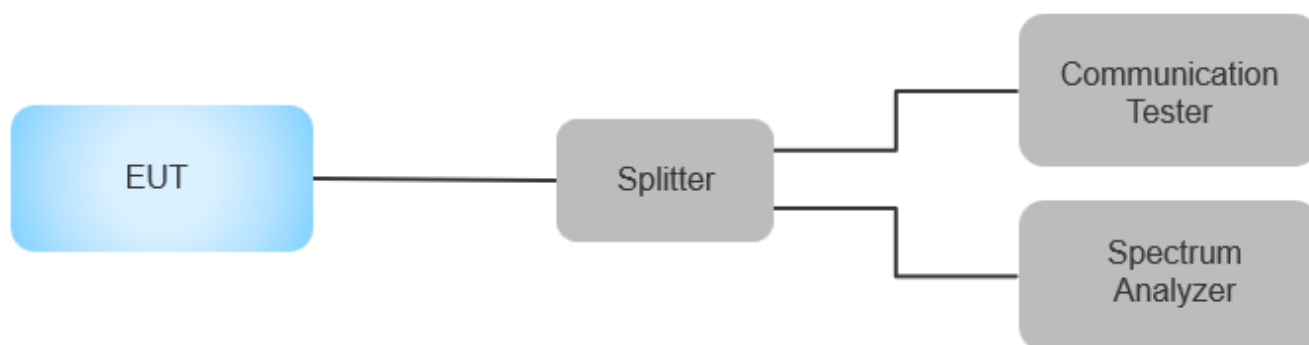
6.1 Maximum Output Power



The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

6.2 Occupied Bandwidth



99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW $\geq 3 * RBW$, with span $> 2 * \text{Signal BW}$, set % Power = 99%.

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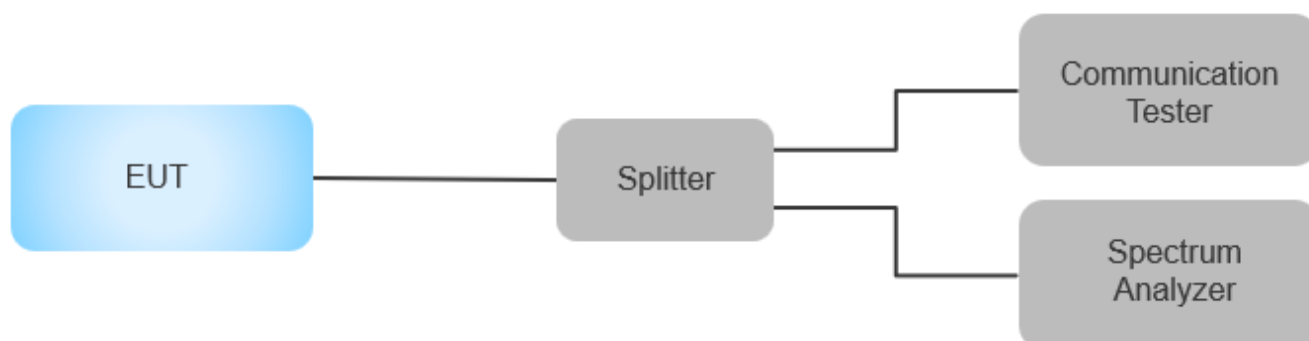
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6.3 Out Of Band Emission At Antenna Terminals



6.3.1 Out Of Band Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

6.3.2 Band Edge

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

1. To connect Antenna Port of EUT to Spectrum.
 2. The band edge of low and high channels for the highest RF powers was measured.
- Setting RBW $\geq$ 1% EBW.
3. Detector = Average
 4. Allow trace to fully stabilize
 5. Repeat above procedures until all default test channel measured were complete.

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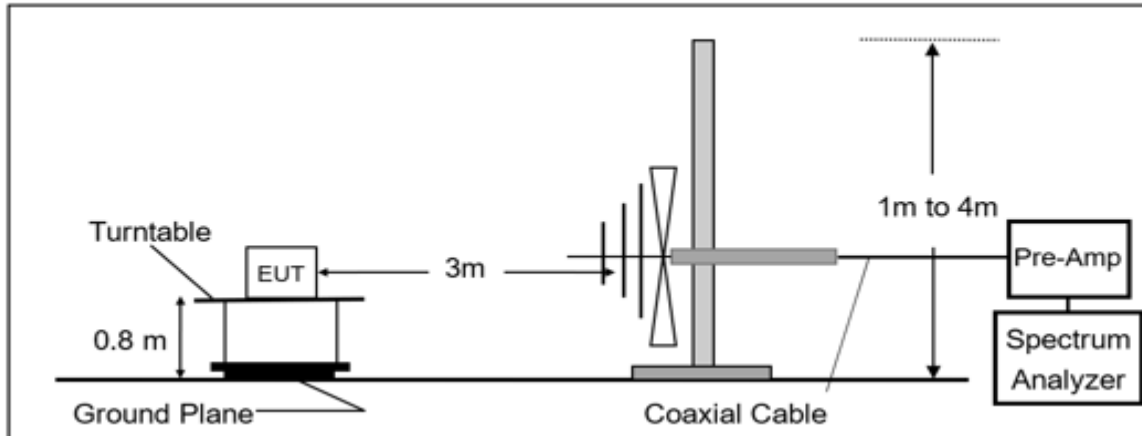
6.4 Field Strength Of Spurious Radiation

For Measurements From 9 kHz To 30 MHz

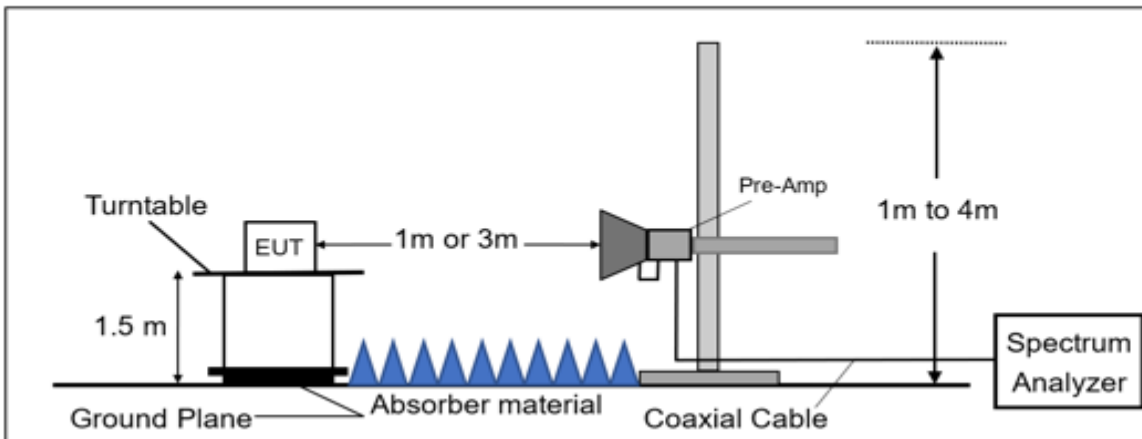
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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The Equipment Under Test (EUT) was positioned on a non-conductive turntable that rotates 360 degrees. The receiving antenna was placed 3 meters from the EUT, with height varied between 1-4 meters to maximize emission detection.

To identify maximum emission levels, the following parameters were optimized:

EUT azimuth angle through 360-degree rotation

EUT orientation in three orthogonal axes

Antenna height (1-4 meters)

Antenna polarization (horizontal and vertical)

For frequencies above 1 GHz, measurements were conducted with the antenna maintained within the 3dB illumination bandwidth and pointed toward the EUT in both azimuth and elevation angles.

The frequency range extending to the tenth harmonic was investigated for three fundamental frequencies (low, middle, and high channels). Spurious emissions were identified and their power levels determined using the substitution method. The spurious emission attenuation was calculated as the difference between the radiated power at the fundamental frequency and the spurious emission frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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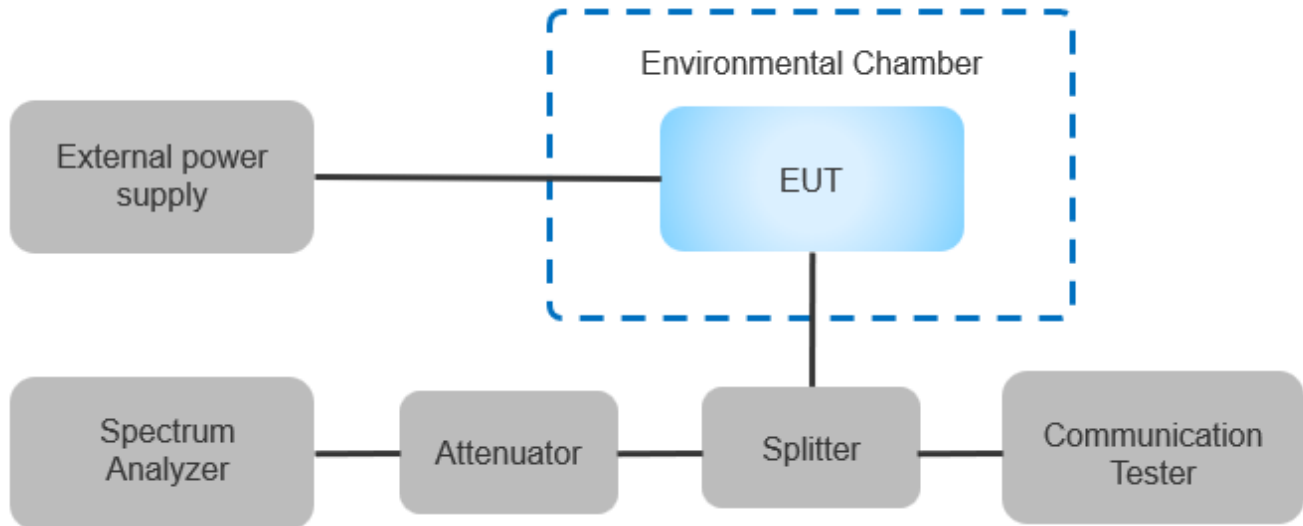
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6.5 Frequency Stability



The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

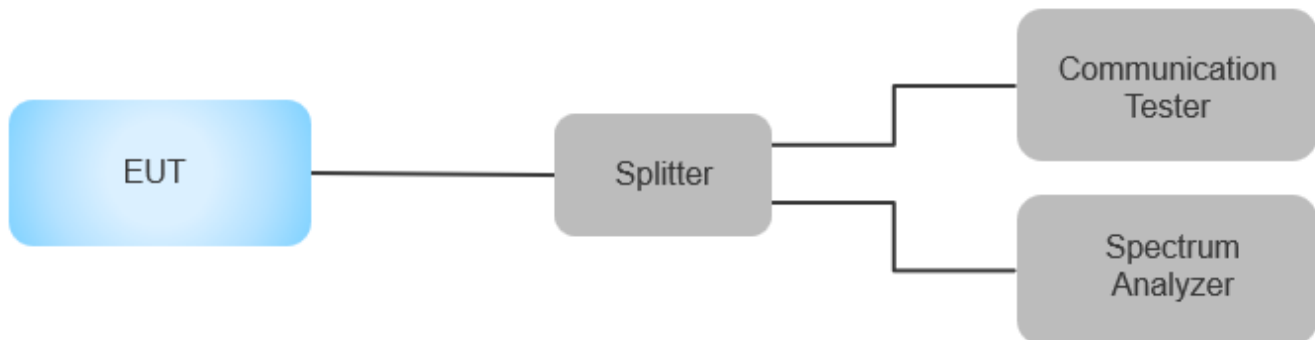
Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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6.6 Peak To Average Ratio



1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal =1ms
3. As an alternative, the highest power level measured in a narrower RBW (relative to the specified reference bandwidth) can be scaled by applying a correction factor determined from: $10 \log [(reference\ bandwidth) / (resolution\ or\ measurement\ band-width)]$.
4. Set the number of counts to a value that stabilizes the measured CCDF curve.

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7 TEST RESULTS

7.1 Maximum Output Power

7.1.1 Duty Factor

LTE

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
(TDD)LTE_Band48	40.00	3.98

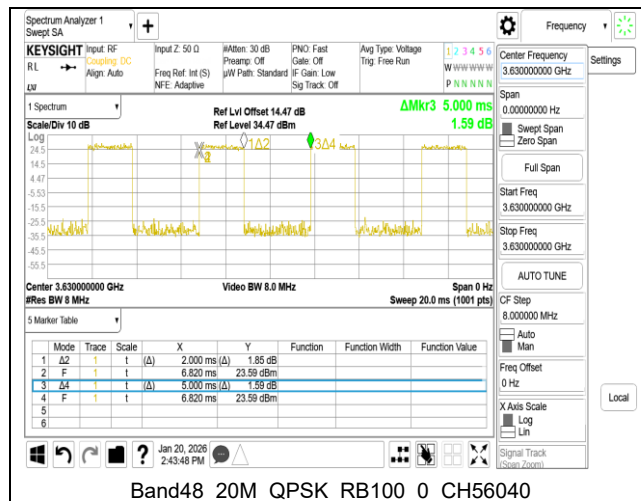
NR

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
(TDD)NR_n48	20.00	6.99

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NR



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7.1.2 ERP/EIRP

LTE

Antenna gain (dBi)		-0.3							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
5	55265	3552.5	QPSK	1	0	21.52	21.22	23	-1.78
				1	24	21.56	21.26	23	-1.74
				12	6	21.56	21.26	23	-1.74
				25	0	21.54	21.24	23	-1.76
	55990	3625.0	QPSK	1	0	21.59	21.29	23	-1.71
				1	24	21.55	21.25	23	-1.75
				12	6	21.64	21.34	23	-1.66
				25	0	21.65	21.35	23	-1.65
	56715	3697.5	QPSK	1	0	21.88	21.58	23	-1.42
				1	24	21.75	21.45	23	-1.55
				12	6	21.87	21.57	23	-1.43
				25	0	21.87	21.57	23	-1.43
5	55265	3552.5	16QAM	1	0	21.29	20.99	23	-2.01
				1	24	21.43	21.13	23	-1.87
				12	6	21.23	20.93	23	-2.07
				25	0	21.19	20.89	23	-2.11
	55990	3625.0	16QAM	1	0	21.17	20.87	23	-2.13
				1	24	21.15	20.85	23	-2.15
				12	6	21.08	20.78	23	-2.22
				25	0	21.04	20.74	23	-2.26
	56715	3697.5	16QAM	1	0	21.47	21.17	23	-1.83
				1	24	21.41	21.11	23	-1.89
				12	6	21.4	21.10	23	-1.90
				25	0	21.43	21.13	23	-1.87
5	55265	3552.5	64QAM	1	0	20.99	20.69	23	-2.31
				1	24	21.13	20.83	23	-2.17
				12	6	20.7	20.40	23	-2.60
				25	0	20.63	20.33	23	-2.67
	55990	3625.0	64QAM	1	0	21.08	20.78	23	-2.22
				1	24	21.18	20.88	23	-2.12
				12	6	20.58	20.28	23	-2.72
				25	0	20.54	20.24	23	-2.76
	56715	3697.5	64QAM	1	0	21.35	21.05	23	-1.95
				1	24	21.21	20.91	23	-2.09
				12	6	20.94	20.64	23	-2.36
				25	0	20.92	20.62	23	-2.38
5	55265	3552.5	256QAM	1	0	18.71	18.41	23	-4.59
				1	24	18.67	18.37	23	-4.63
				12	6	18.63	18.33	23	-4.67
				25	0	18.6	18.30	23	-4.70
	55990	3625.0	256QAM	1	0	18.71	18.41	23	-4.59
				1	24	18.65	18.35	23	-4.65
				12	6	18.62	18.32	23	-4.68
				25	0	18.54	18.24	23	-4.76
	56715	3697.5	256QAM	1	0	19.1	18.80	23	-4.20
				1	24	19.08	18.78	23	-4.22
				12	6	18.95	18.65	23	-4.35
				25	0	18.92	18.62	23	-4.38

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Antenna gain (dBi)		-0.3							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
10	55290	3555.0	QPSK	1	0	21.57	21.27	23	-1.73
				1	49	21.59	21.29	23	-1.71
				25	12	21.65	21.35	23	-1.65
				50	0	21.6	21.30	23	-1.70
	55990	3625.0	QPSK	1	0	21.41	21.11	23	-1.89
				1	49	21.56	21.26	23	-1.74
				25	12	21.64	21.34	23	-1.66
				50	0	21.64	21.34	23	-1.66
	56690	3695.0	QPSK	1	0	21.94	21.64	23	-1.36
				1	49	21.72	21.42	23	-1.58
				25	12	21.83	21.53	23	-1.47
				50	0	21.79	21.49	23	-1.51
10	55290	3555.0	16QAM	1	0	21.34	21.04	23	-1.96
				1	49	21.21	20.91	23	-2.09
				25	12	21.21	20.91	23	-2.09
				50	0	21.12	20.82	23	-2.18
	55990	3625.0	16QAM	1	0	21.32	21.02	23	-1.98
				1	49	21.33	21.03	23	-1.97
				25	12	21.14	20.84	23	-2.16
				50	0	21.11	20.81	23	-2.19
	56690	3695.0	16QAM	1	0	21.57	21.27	23	-1.73
				1	49	21.56	21.26	23	-1.74
				25	12	21.27	20.97	23	-2.03
				50	0	21.36	21.06	23	-1.94
10	55290	3555.0	64QAM	1	0	21.09	20.79	23	-2.21
				1	49	21.01	20.71	23	-2.29
				25	12	20.70	20.40	23	-2.60
				50	0	20.64	20.34	23	-2.66
	55990	3625.0	64QAM	1	0	21.15	20.85	23	-2.15
				1	49	21.29	20.99	23	-2.01
				25	12	20.55	20.25	23	-2.75
				50	0	20.54	20.24	23	-2.76
	56690	3695.0	64QAM	1	0	21.21	20.91	23	-2.09
				1	49	21.50	21.20	23	-1.80
				25	12	20.89	20.59	23	-2.41
				50	0	20.85	20.55	23	-2.45
10	55290	3555.0	256QAM	1	0	18.74	18.44	23	-4.56
				1	49	18.52	18.22	23	-4.78
				25	12	18.70	18.40	23	-4.60
				50	0	18.61	18.31	23	-4.69
	55990	3625.0	256QAM	1	0	18.57	18.27	23	-4.73
				1	49	18.54	18.24	23	-4.76
				25	12	18.58	18.28	23	-4.72
				50	0	18.54	18.24	23	-4.76
	56690	3695.0	256QAM	1	0	19.10	18.80	23	-4.20
				1	49	19.05	18.75	23	-4.25
				25	12	18.94	18.64	23	-4.36
				50	0	18.86	18.56	23	-4.44

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LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
15	55315	3557.5	QPSK	1	0	19.81	19.51	23	-3.49
				1	74	19.86	19.56	23	-3.44
				36	18	19.87	19.57	23	-3.43
				75	0	19.85	19.55	23	-3.45
	56040	3630.0	QPSK	1	0	19.86	19.56	23	-3.44
				1	74	20.01	19.71	23	-3.29
				36	18	19.89	19.59	23	-3.41
				75	0	19.79	19.49	23	-3.51
	56665	3692.5	QPSK	1	0	20.09	19.79	23	-3.21
				1	74	20.01	19.71	23	-3.29
				36	18	20.02	19.72	23	-3.28
				75	0	19.93	19.63	23	-3.37
15	55315	3557.5	16QAM	1	0	19.60	19.30	23	-3.70
				1	74	19.54	19.24	23	-3.76
				36	18	19.44	19.14	23	-3.86
				75	0	19.34	19.04	23	-3.96
	56040	3630.0	16QAM	1	0	19.43	19.13	23	-3.87
				1	74	19.29	18.99	23	-4.01
				36	18	19.31	19.01	23	-3.99
				75	0	19.27	18.97	23	-4.03
	56665	3692.5	16QAM	1	0	19.81	19.51	23	-3.49
				1	74	19.80	19.50	23	-3.50
				36	18	19.68	19.38	23	-3.62
				75	0	19.60	19.30	23	-3.70
15	55315	3557.5	64QAM	1	0	19.52	19.22	23	-3.78
				1	74	19.52	19.22	23	-3.78
				36	18	18.88	18.58	23	-4.42
				75	0	18.78	18.48	23	-4.52
	56040	3630.0	64QAM	1	0	19.45	19.15	23	-3.85
				1	74	19.69	19.39	23	-3.61
				36	18	18.72	18.42	23	-4.58
				75	0	18.75	18.45	23	-4.55
	56665	3692.5	64QAM	1	0	19.54	19.24	23	-3.76
				1	74	19.66	19.36	23	-3.64
				36	18	19.12	18.82	23	-4.18
				75	0	19.09	18.79	23	-4.21
15	55315	3557.5	256QAM	1	0	17.21	16.91	23	-6.09
				1	74	16.96	16.66	23	-6.34
				36	18	16.91	16.61	23	-6.39
				75	0	16.84	16.54	23	-6.46
	56040	3630.0	256QAM	1	0	16.98	16.68	23	-6.32
				1	74	16.94	16.64	23	-6.36
				36	18	16.76	16.46	23	-6.54
				75	0	16.74	16.44	23	-6.56
	56665	3692.5	256QAM	1	0	17.20	16.90	23	-6.10
				1	74	17.33	17.03	23	-5.97
				36	18	17.15	16.85	23	-6.15
				75	0	17.08	16.78	23	-6.22

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Antenna gain (dBi)		-0.3							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
20	55340	3560.0	QPSK	1	0	18.85	18.55	23	-4.45
				1	99	18.62	18.32	23	-4.68
				50	25	18.63	18.33	23	-4.67
				100	0	18.55	18.25	23	-4.75
	56040	3630.0	QPSK	1	0	18.78	18.48	23	-4.52
				1	99	18.63	18.33	23	-4.67
				50	25	18.63	18.33	23	-4.67
				100	0	18.55	18.25	23	-4.75
	56640	3690.0	QPSK	1	0	18.86	18.56	23	-4.44
				1	99	18.76	18.46	23	-4.54
				50	25	18.81	18.51	23	-4.49
				100	0	18.74	18.44	23	-4.56
20	55340	3560.0	16QAM	1	0	18.18	17.88	23	-5.12
				1	99	18.37	18.07	23	-4.93
				50	25	18.16	17.86	23	-5.14
				100	0	18.12	17.82	23	-5.18
	56040	3630.0	16QAM	1	0	18.26	17.96	23	-5.04
				1	99	18.15	17.85	23	-5.15
				50	25	17.99	17.69	23	-5.31
				100	0	17.93	17.63	23	-5.37
	56640	3690.0	16QAM	1	0	18.51	18.21	23	-4.79
				1	99	18.50	18.20	23	-4.80
				50	25	18.49	18.19	23	-4.81
				100	0	18.42	18.12	23	-4.88
20	55340	3560.0	64QAM	1	0	18.29	17.99	23	-5.01
				1	99	18.15	17.85	23	-5.15
				50	25	17.61	17.31	23	-5.69
				100	0	17.50	17.20	23	-5.80
	56040	3630.0	64QAM	1	0	18.30	18.00	23	-5.00
				1	99	18.23	17.93	23	-5.07
				50	25	17.43	17.13	23	-5.87
				100	0	17.24	16.94	23	-6.06
	56640	3690.0	64QAM	1	0	18.33	18.03	23	-4.97
				1	99	18.18	17.88	23	-5.12
				50	25	17.86	17.56	23	-5.44
				100	0	17.87	17.57	23	-5.43
20	55340	3560.0	256QAM	1	0	15.35	15.05	23	-7.95
				1	99	15.36	15.06	23	-7.94
				50	25	15.60	15.30	23	-7.70
				100	0	15.54	15.24	23	-7.76
	56040	3630.0	256QAM	1	0	15.40	15.10	23	-7.90
				1	99	15.41	15.11	23	-7.89
				50	25	15.47	15.17	23	-7.83
				100	0	15.42	15.12	23	-7.88
	56640	3690.0	256QAM	1	0	15.78	15.48	23	-7.52
				1	99	15.76	15.46	23	-7.54
				50	25	15.93	15.63	23	-7.37
				100	0	15.86	15.56	23	-7.44

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5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)		
Antenna Gain(dBi)			-0.3		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm/10MHz)			23		Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637000	641668	646332	637000	641668	646332
					3555.00	3625.02	3694.98	3555.00	3625.02	3694.98
10	30	DFT-s PI/2 BPSK	1	1	23.13	22.46	22.39	22.83	22.16	22.09
			1	22	22.51	22.44	22.37	22.21	22.14	22.07
			12	6	22.58	22.50	22.51	22.28	22.20	22.21
			24	0	22.59	22.56	22.52	22.29	22.26	22.22
		DFT-s QPSK	1	1	22.35	22.55	22.55	22.05	22.25	22.25
			1	22	22.58	22.54	22.56	22.28	22.24	22.26
			12	6	22.60	22.53	22.68	22.30	22.23	22.38
			24	0	22.62	22.53	22.55	22.32	22.23	22.25
		DFT-s 16QAM	1	1	22.08	22.63	21.93	21.78	22.33	21.63
		DFT-s 64QAM	1	1	21.60	21.59	21.57	21.30	21.29	21.27
		DFT-s 256QAM	1	1	19.23	19.20	19.23	18.93	18.90	18.93
		CP QPSK	1	1	22.33	22.09	22.15	22.03	21.79	21.85
		CP 16QAM	1	1	22.15	22.10	22.10	21.85	21.80	21.80
		CP 64QAM	1	1	20.31	20.19	20.14	20.01	19.89	19.84
		CP 256QAM	1	1	17.56	17.55	17.49	17.26	17.25	17.19

5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)		
Antenna Gain(dBi)			-0.3		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)			23dBm/10MHz		Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637168	641668	646166	637168	641668	646166
					3557.52	3625.02	3692.49	3557.52	3625.02	3692.49
15	30	DFT-s PI/2 BPSK	1	1	20.40	21.02	21.41	20.10	20.72	21.11
			1	36	20.52	20.71	21.06	20.22	20.41	20.76
			18	9	20.80	20.91	20.98	20.50	20.61	20.68
			36	0	20.74	20.86	20.97	20.44	20.56	20.67
		DFT-s QPSK	1	1	20.48	20.89	20.87	20.18	20.59	20.57
			1	36	20.68	20.67	20.91	20.38	20.37	20.61
			18	9	20.79	20.92	20.96	20.49	20.62	20.66
			36	0	20.74	20.87	20.97	20.44	20.57	20.67
		DFT-s 16QAM	1	1	20.35	21.31	21.12	20.05	21.01	20.82
		DFT-s 64QAM	1	1	19.41	19.78	19.84	19.11	19.48	19.54
		DFT-s 256QAM	1	1	17.51	17.99	18.18	17.21	17.69	17.88
		CP QPSK	1	1	20.60	20.93	20.38	20.30	20.63	20.08
		CP 16QAM	1	1	19.83	20.39	20.27	19.53	20.09	19.97
		CP 64QAM	1	1	18.59	18.59	19.35	18.29	18.29	19.05
		CP 256QAM	1	1	15.62	15.50	15.69	15.32	15.20	15.39

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5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm/10MHz)			EIRP (dBm/10MHz)		
Antenna Gain(dBi)		-0.3			Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)		
EIRP Limit (dBm)		23dBm/10MHz			Low	Mid	High	Low	Mid	High
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637334	641668	646000	637334	641668	646000
					3560.01	3625.02	3690.00	3560.01	3625.02	3690.00
20	30	DFT-s PI/2 BPSK	1	1	19.99	19.72	19.60	19.69	19.42	19.30
			1	49	19.39	19.34	19.75	19.09	19.04	19.45
			25	12	19.60	19.45	19.75	19.30	19.15	19.45
			50	0	19.54	19.62	19.68	19.24	19.32	19.38
		DFT-s QPSK	1	1	19.42	19.67	19.44	19.12	19.37	19.14
			1	49	19.64	19.46	19.70	19.34	19.16	19.40
			25	12	19.64	19.60	19.71	19.34	19.30	19.41
			50	0	19.52	19.60	19.68	19.22	19.30	19.38
		DFT-s 16QAM	1	1	19.05	19.66	19.91	18.75	19.36	19.61
		DFT-s 64QAM	1	1	18.51	18.47	18.72	18.21	18.17	18.42
		DFT-s 256QAM	1	1	16.72	16.72	16.58	16.42	16.42	16.28
		CP QPSK	1	1	19.47	19.51	19.03	19.17	19.21	18.73
		CP 16QAM	1	1	18.81	19.21	19.09	18.51	18.91	18.79
		CP 64QAM	1	1	17.49	17.56	17.56	17.19	17.26	17.26
		CP 256QAM	1	1	13.92	14.82	14.06	13.62	14.52	13.76

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7.2 Occupied Bandwidth

LTE

LTE BAND 48 Channel bandwidth: 5MHz									
CH	Freq. (MHz)	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
55265	3552.5	4.4884	4.4898	4.4848	4.4873	5.075	5.154	5.208	5.079
55990	3625.0	4.4911	4.4794	4.4725	4.4734	5.141	5.056	5.006	5.049
56715	3697.5	4.4824	4.4796	4.4750	4.4861	5.050	5.082	4.914	5.037

LTE BAND 48 Channel bandwidth: 10MHz									
CH	Freq. (MHz)	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
55290	3555.0	9.0016	9.0019	8.9578	9.0087	10.320	10.210	10.930	10.510
55990	3625.0	8.9194	8.9233	8.9644	8.8892	9.468	9.558	9.765	9.682
56690	3695.0	8.8974	8.9597	8.9496	8.9148	9.617	9.509	9.520	9.591

LTE BAND 48 Channel bandwidth: 15MHz									
CH	Freq. (MHz)	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
55315	3557.5	13.4470	13.4390	13.4760	13.4340	14.690	14.970	15.130	14.860
56040	3630.0	13.3870	13.3770	13.3980	13.3880	14.010	13.940	14.540	13.970
56665	3692.5	13.4130	13.3730	13.4330	13.3940	13.920	14.530	14.930	14.260

LTE BAND 48 Channel bandwidth: 20MHz									
CH	Freq. (MHz)	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
55340	3560.0	17.9270	17.9030	17.9330	17.9340	19.610	19.480	19.550	19.620
56040	3630.0	17.8630	17.9450	17.8670	17.9260	19.380	19.180	18.820	19.000
56640	3690.0	17.9320	17.7440	17.9400	17.9220	19.470	18.740	18.770	18.760

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NR

5G NR BAND n48_Part96 Channel bandwidth: 10MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
CH	Freq. (MHz)	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
637000	3555.00	8.5778	8.6308	8.6646	8.6320	8.6157	9.7680	9.8940	9.8230	9.9060	9.7050
641668	3625.02	8.5721	8.6096	8.6068	8.5669	8.5394	9.1130	9.4580	9.6090	9.5570	9.4530
646332	3694.98	8.6088	8.6174	8.5733	8.6781	8.6050	9.2900	8.9490	9.2390	9.3380	9.7800

5G NR BAND n48_Part96 Channel bandwidth: 15MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
CH	Freq. (MHz)	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
637168	3557.52	12.9410	12.9070	12.8900	12.9660	12.9270	14.4000	14.0600	14.3000	14.3900	14.4500
641668	3625.02	12.9110	12.9500	12.9140	12.8660	12.9590	13.6300	13.8400	13.6000	14.0100	13.5900
646166	3692.49	12.8370	12.8720	12.8210	12.8410	12.8950	13.7000	13.8500	13.7300	13.9600	13.9400

5G NR BAND n48_Part96 Channel bandwidth: 20MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
CH	Freq. (MHz)	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
637334	3560.01	17.8670	17.8860	17.8950	17.8480	17.9060	19.3700	19.1800	19.5500	19.4200	19.5400
641668	3625.02	17.7910	17.8290	17.8810	17.9020	17.8340	18.9700	19.1800	19.1900	18.9000	18.8300
646000	3690.00	17.8460	17.8010	17.8910	17.8850	17.9160	19.0500	18.8900	19.1500	19.4300	18.5800

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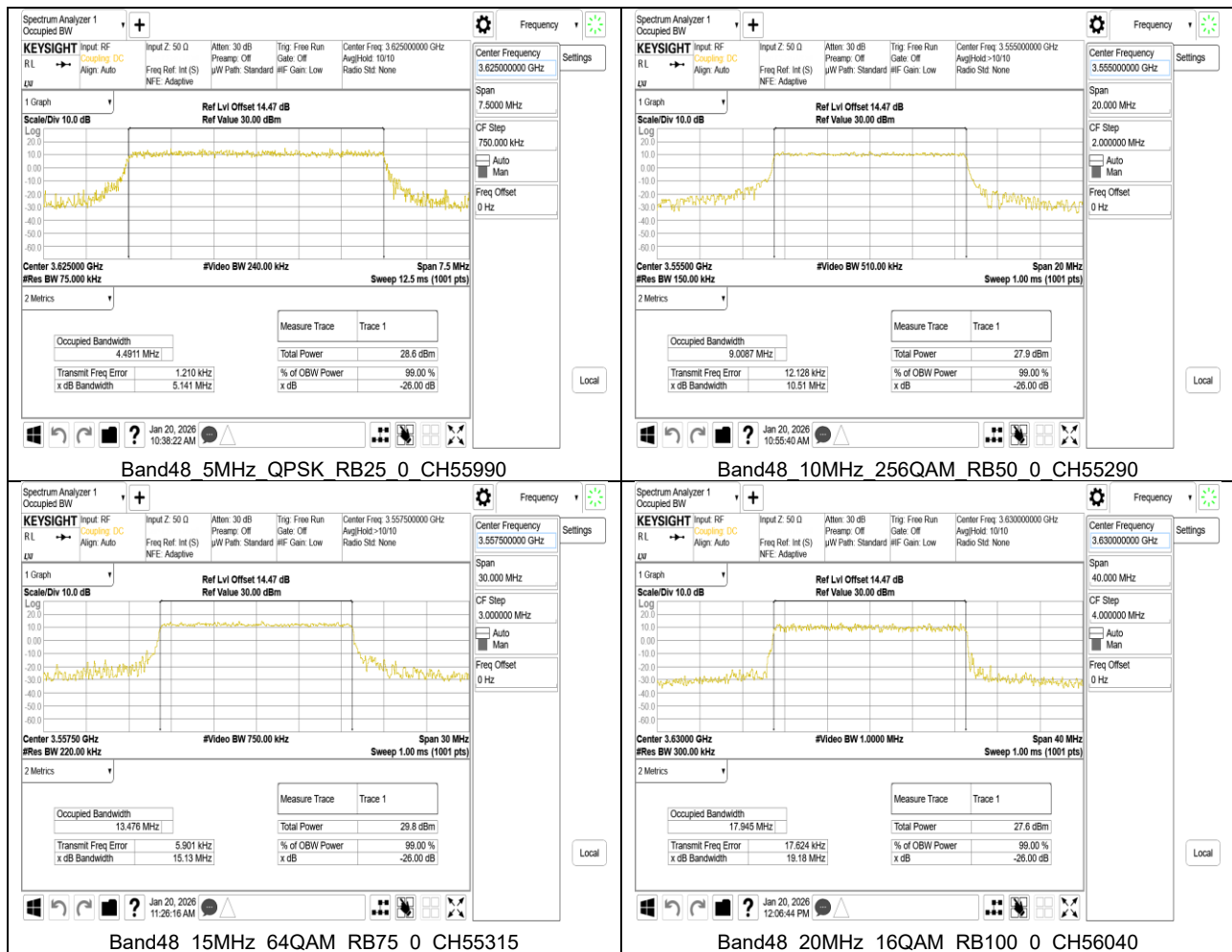
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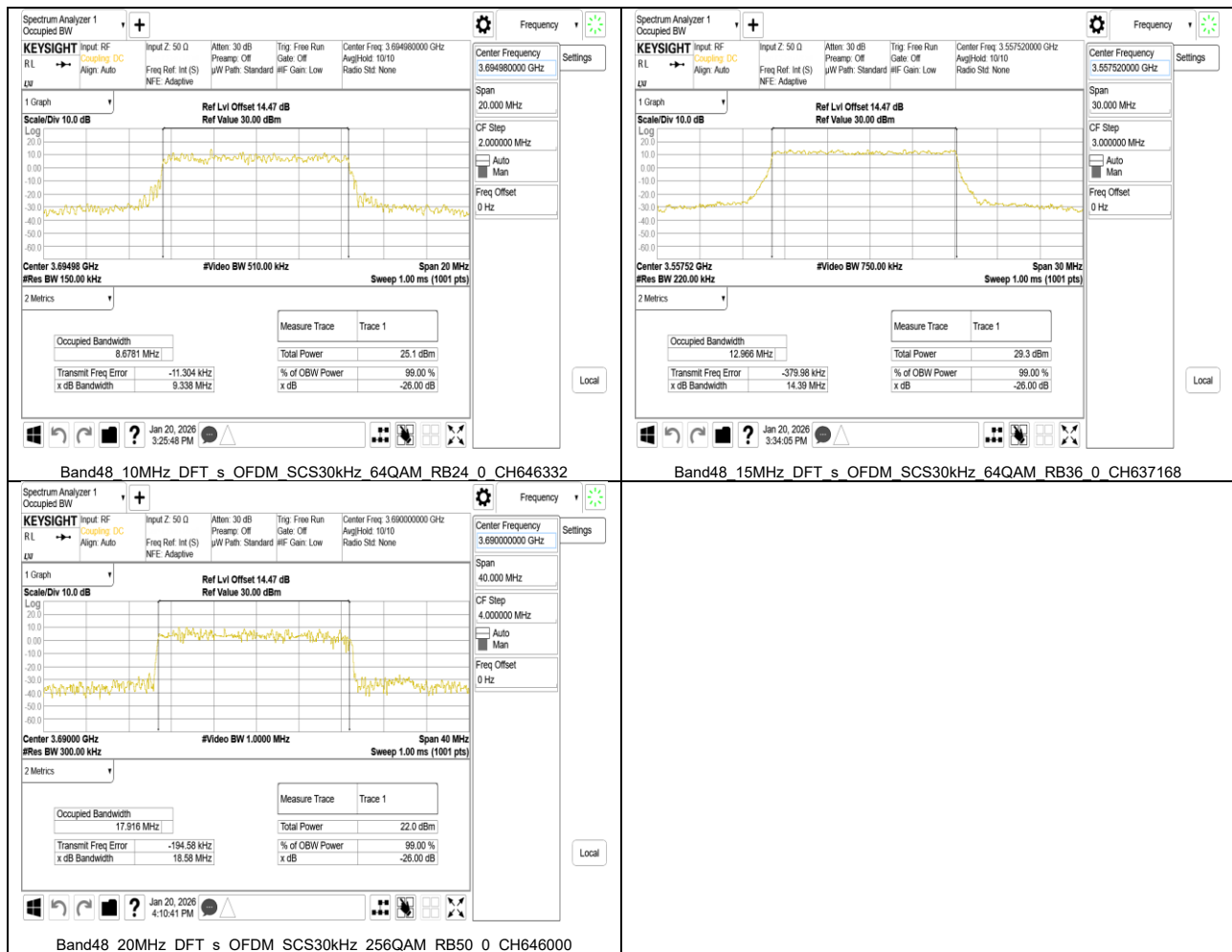
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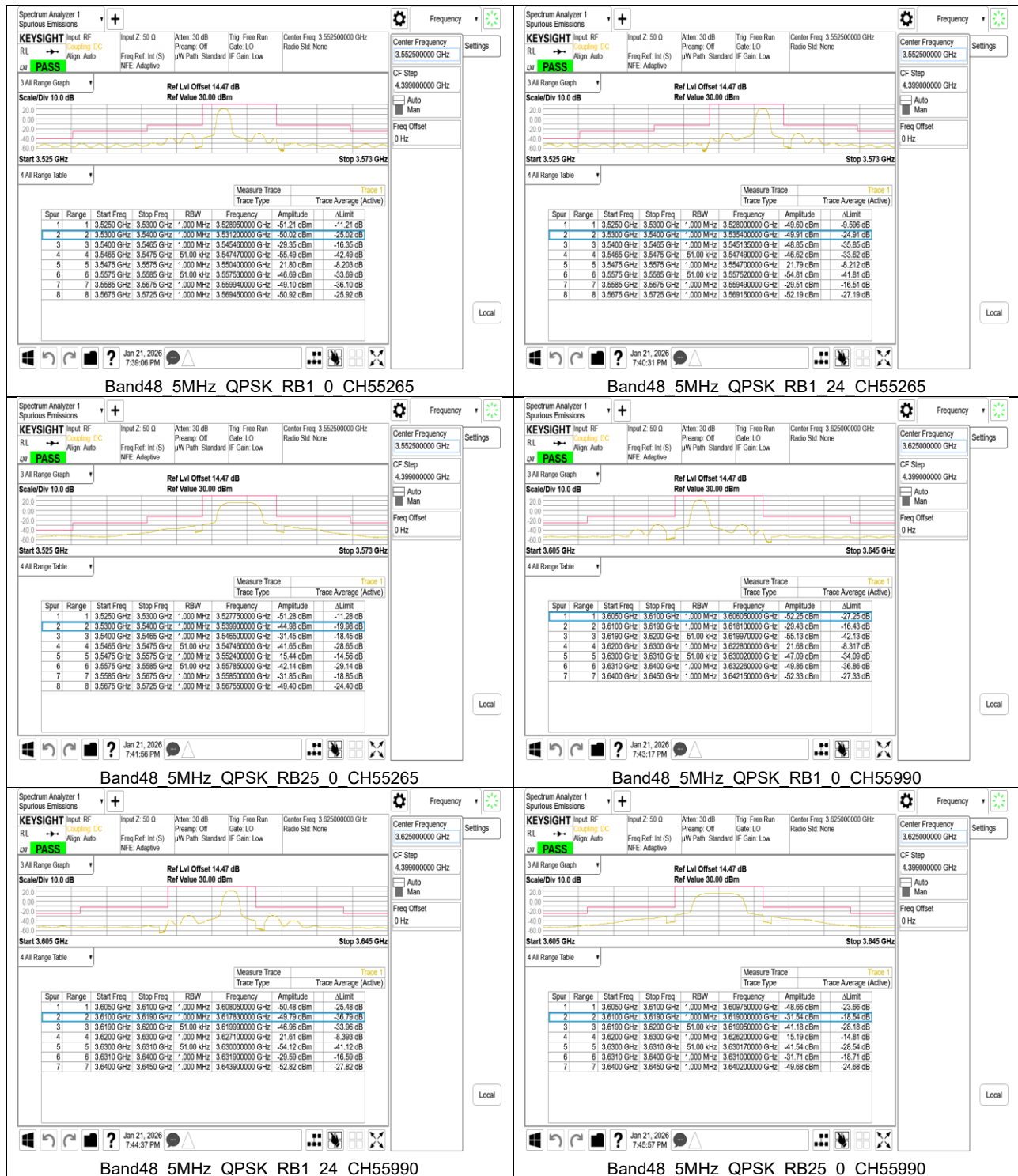
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7.3 Out Of Band Emission At Antenna Terminals

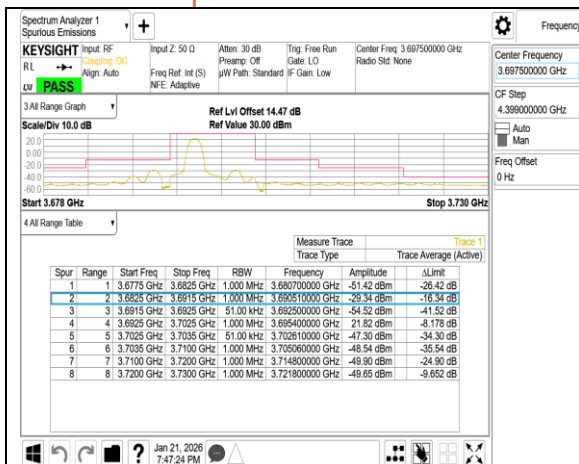
LTE



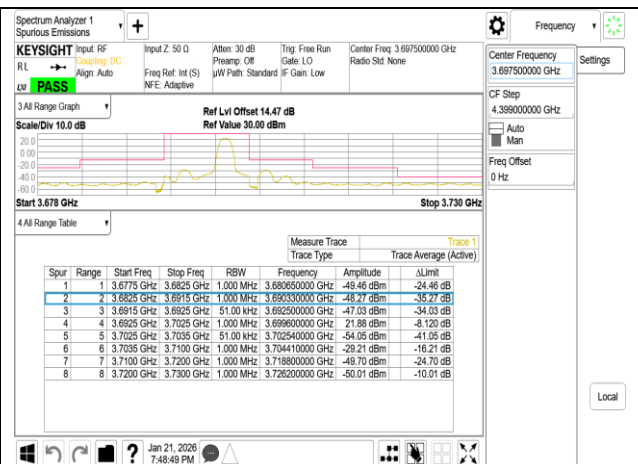
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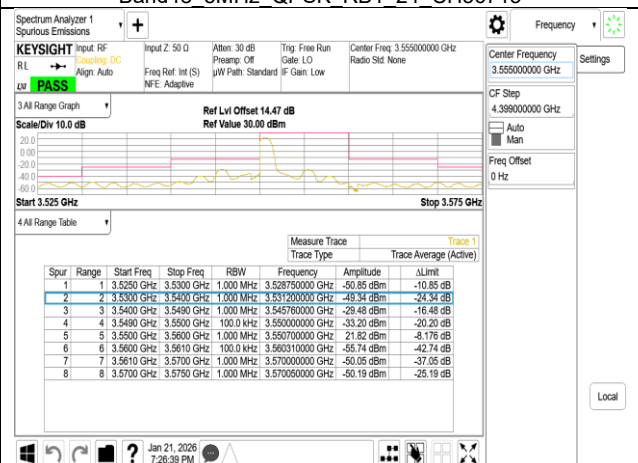
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Band48 5MHz QPSK RB1 24 CH56715



Band48 5MHz QPSK RB25 0 CH56715



Band48 10MHz QPSK RB1 0 CH55290



Band48 10MHz QPSK RB1 49 CH55290

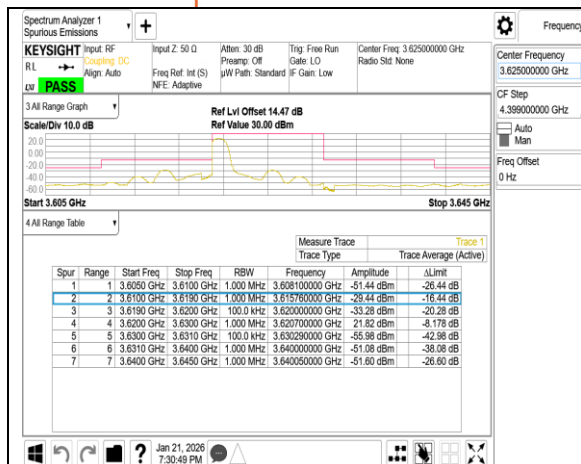


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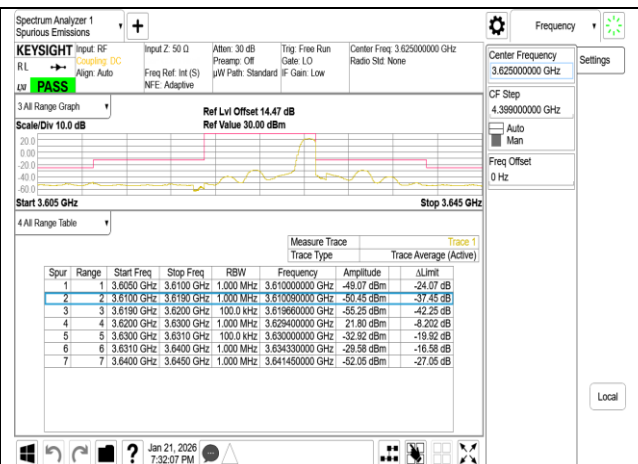
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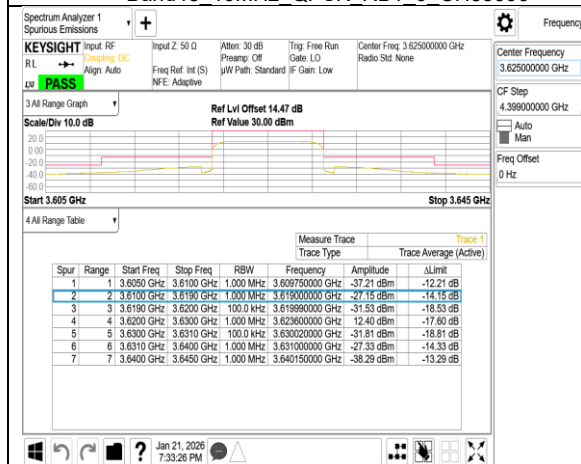
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Band48 10MHz QPSK RB1 0 CH55990



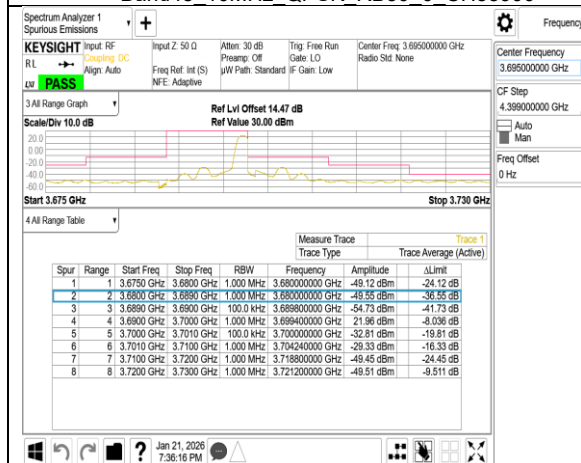
Band48 10MHz QPSK RB1 49 CH55990



Band48 10MHz QPSK RB50 0 CH55990



Band48 10MHz QPSK RB1 0 CH56690



Band48 10MHz QPSK RB1 49 CH56690

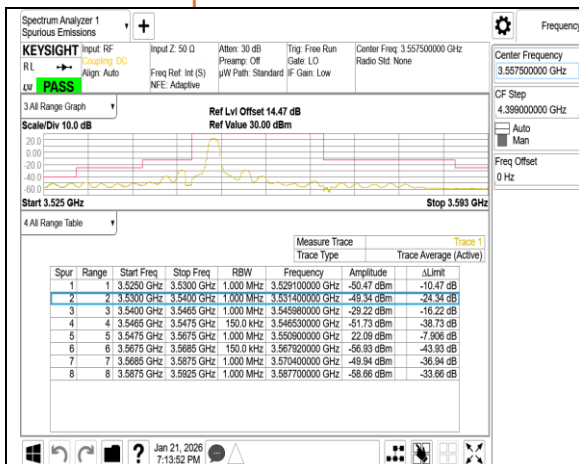


Band48 10MHz QPSK RB50 0 CH56690

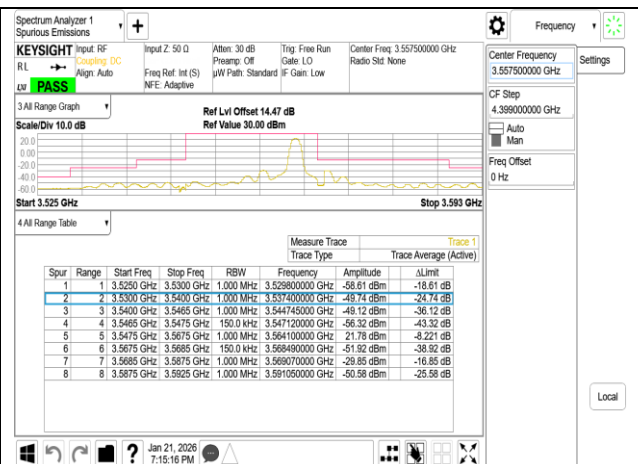
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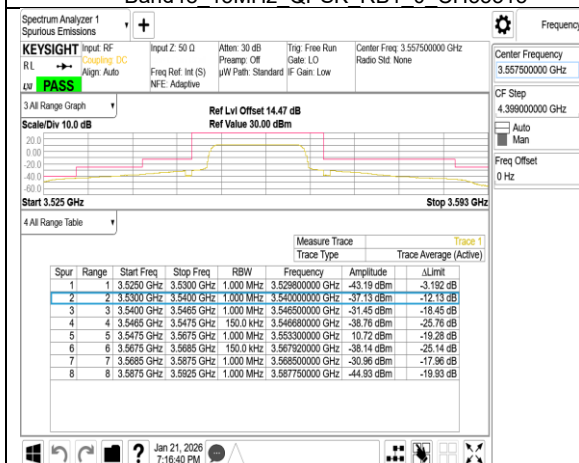
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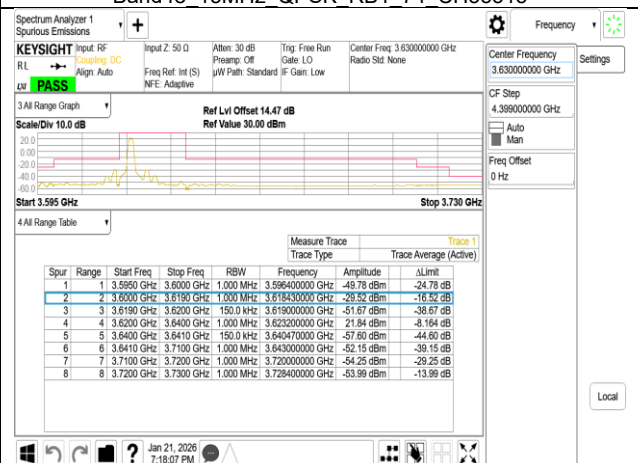
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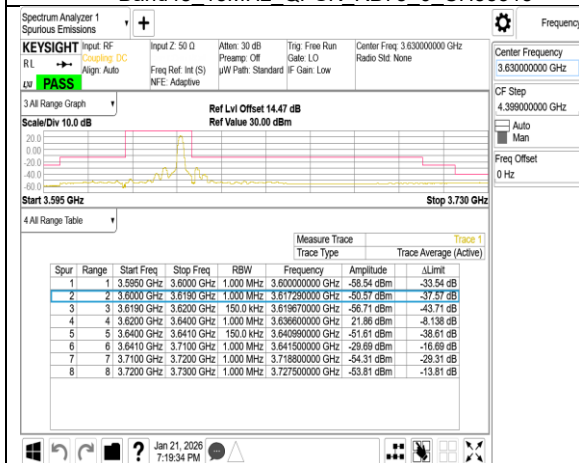
Band48 15MHz QPSK RB1 74 CH55315



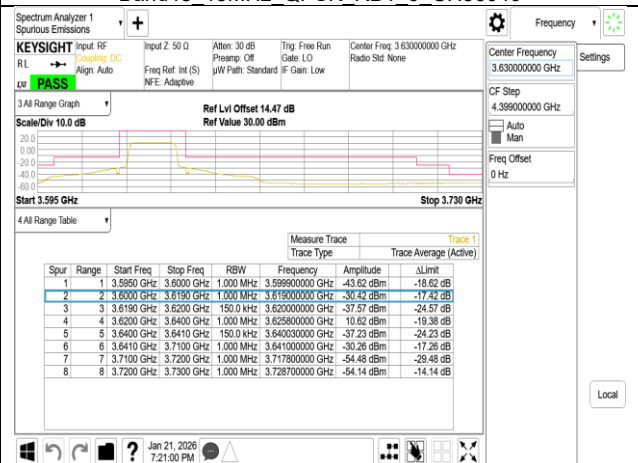
Band48 15MHz QPSK RB75 0 CH55315



Band48 15MHz QPSK RB1 0 CH56040



Band48 15MHz QPSK RB1 74 CH56040

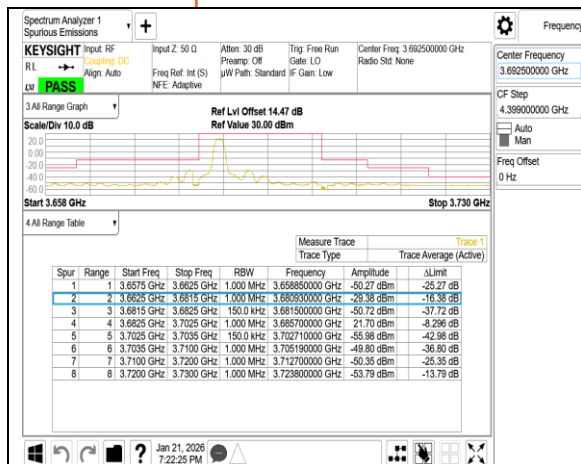


Band48 15MHz QPSK RB75 0 CH56040

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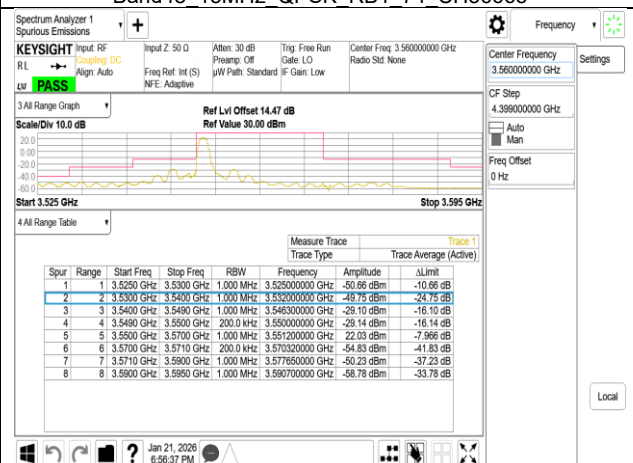
Band48 15MHz QPSK RB1 0 CH56665



Band48 15MHz QPSK RB1 74 CH56665



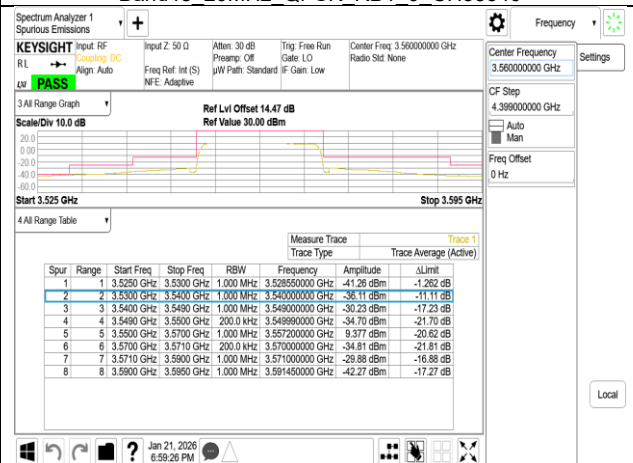
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Band48 20MHz QPSK RB1 0 CH55340



Band48 20MHz QPSK RB1 99 CH55340

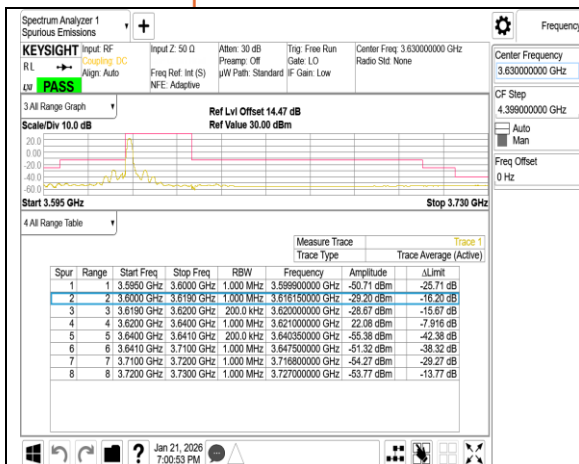


Band48 20MHz QPSK RB100 0 CH55340

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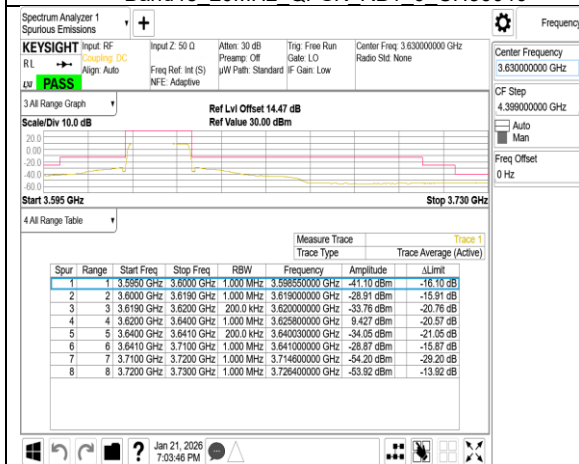
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Band48 20MHz QPSK RB1 0 CH56040



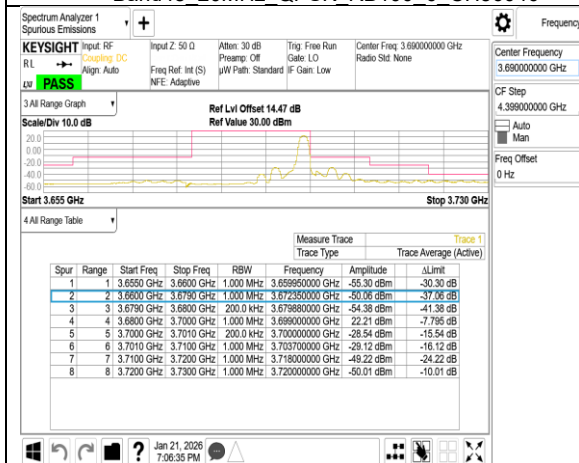
Band48 20MHz QPSK RB1 99 CH56040



Band48 20MHz QPSK RB100 0 CH56040



Band48 20MHz QPSK RB1 0 CH56640



Band48 20MHz QPSK RB1 99 CH56640



Band48 20MHz QPSK RB100 0 CH56640

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