

Prüfbericht-Nr.: <i>Test report no.:</i>	IN25CSFD 001	Auftrags-Nr.: <i>Order no.:</i>	146976468 010	Seite 1 von 78 Page 1 of 78
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2384903	Auftragsdatum: <i>Order date:</i>	2024-10-22	
Auftraggeber: <i>Client:</i>	Devic Earth Private Limited Villa 7, Ground Floor Parkway Tivoli Apartment. Kadugodi Main Road.Seegehalli Whitefield Bangalore,560067.			
Prüfgegenstand: <i>Test item:</i>	Air Pollution Control Equipment			
Bezeichnung: <i>Identification .:</i>	Transmitter PSDEACE			
Auftrags-Inhalt: <i>Order content:</i>	Testing and issue of Test Report with Grant Certificate			
Prüfgrundlage: <i>Test specification:</i>	47 CFR Part2, 47 CFR Part 22 Subpart H, FCC Part15 Subpart C 15.207 RSS Gen Issue 5, RSS 132 Issue 4			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-11-04			
Prüfmuster-Nr & Serien-Nr.: <i>Test sample no & serial no.:</i>	A003846786-002 0036			
Prüfzeitraum: <i>Testing period:</i>	2024-11-04 - 2024-11-20			
Ort der Prüfung: <i>Place of testing:</i>	Wireless laboratory, Bangalore			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (India) Pvt.Ltd., 27/B, 2nd Cross, Electronic City Phase1 Bangalore -560 100, India FCC Test site registration number: 496599 ISED Test site registration number: 27711			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2025-01-17	Ausstellatum: <i>Issue date:</i> 2025-01-17			
Stellung / Position:	M.V.Naveen Kumar Senior Engineer	Stellung / Position:	Madhu K.N Assistant Manager	
Sonstiges / Other:	FCC ID: 2BL5B-PSDEACE IC : 33453-PSDEACE HVIN: Transmitter PSDEACE			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: 1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
* Legend: 1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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- | | |
|---|---|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird.</p> <p><i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i></p> |

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TEST SUMMARY

Test Item	FCC Clause	IC Clause	Results
Conducted Output Average Power and Peak to Average Power ratio	§2.1046 §22.913(a)(5)(d)	RSS-132, §5.4	Pass
Equivalent Isotropic Radiated Power (EIRP) / Effective Radiated Power (ERP)	§22.913 (a) (5)	RSS-Gen, §6.12; RSS-132, §5.4	Pass
Field strength of spurious radiation	§2.1053 §22.917	RSS-Gen, §6.13; RSS-132, §5.5	Pass
Frequency Stability	§2.1055 §22.355	RSS-Gen, §6.11 RSS-132, §5.3	N/T
Emission Bandwidth and Occupied Bandwidth	§2.1049	RSS-Gen, §6.6	N/T
Band Edge	§ 2.1051 §22.917	RSS-Gen, §6.13; RSS-132, §5.5	N/T
Spurious emissions at antenna terminals	§2.1051 §22.917	RSS-Gen, §6.13; RSS-132, §5.5	N/T
Conducted Emissions on A.C Power Lines	§15.207	RSS Gen Issue 5, Section 8.8	Pass

Note:

N/T: Not Tested, since Air Pollution Control Equipment product uses certified RF modules Product Name:

LTE/GNSS MODULE with FCC ID: 2AJYU-8PYA007 & IC: 23761-8PYA008 , Hence the above mentioned test cases are excluded and which can be found in the module test report of respective FCC ID & IC.

Product	Applicant	FCC ID	IC	Report No	IC Report No	Issued By	FCC Grant Date	ISED Grant Date
SIMCom	SIMCom Wireless Solutions Limited	2AJYU-8PYA007	23761-8PYA008	STS2006043W01	STS2006043W02	Shenzhen STS Test Services Co., Ltd.	14-08-2020	02-09-2020

Product Category: Electronics Testing
Test Discipline: EMC Test Facility

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REVISION HISTORY OF THIS REPORT

Report Number	Version	Description	Issue date
IN25CSFD 001	01	Initial Issue of Test Report	2025-01-17

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1 GENERAL REMARKS

1.1 Attachments

All attachments are part of this test report and are issued in separate document

1: TEST SETUP PHOTOS

2: EUT EXTERNAL PHOTOS

3: EUT INTERNAL PHOTOS

4: FCC LABEL AND LABEL LOCATION

5: BLOCK DIAGRAM

6: SPECIFICATION OF EUT

7: SCHEMATIC DIAGRAM

8: BILL OF MATERIAL

9: USER MANUAL

10: MAXIMUM PERMISSIBLE EXPOSURE INFORMATION

2 TEST SITES

2.1 Testing Facilities

1. TÜV Rheinland (India) Pvt.Ltd.,
27/B, 2nd Cross,
ElectronicCityPhase1
Bangalore – 560 100,
India
2. TUV Rheinland (India) Private Limited
108, Beside ISBR Business School,
Electronic city Phase I
Bangalore - 560 100.
India

2.2 List of Test and Measurement Instruments

Table 1: List of test and measurement instruments

Equipment	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Test Facility
EMI Receiver	Rohde & Schwarz	ESW 44	101773	1.72 SP5	26.01.2025	Yearly	Radiated Spurious Emission
Horn Antenna	Schwarzbeck	BBHA 9120 D	2117	-	26.01.2025	Yearly	
Baloon and Biconical Antenna	Schwarzbeck mess-elektronik	VHBB-9124 / BBA-9106	01028	-	08.02.2025	Yearly	
Log-Periodic Antenna	Schwarzbeck mess-elektronik	VUSLP-9111B	9111B-111	-	03.02.2025	Yearly	
Active loop antenna	Frankonia	LAX-10	LAX-10-800	-	23-03-2025	Yearly	
Fully Anechoic Chamber	Albatross	-	-	-	-	-	
EMI Receiver	Rohde & Schwarz	ESW 44	103384	4.73 SP5	10.05.2025	Yearly	Antenna – Port Conducted
10dB Attenuator	H+S Electronics Pvt. Ltd	6810.17.A	770041	-	08-03-2025	Yearly	
Radio Communication tester	Rohde & Schwarz	CMW 500	1201.0002K50	-	29.11.2025	Yearly	
EMI Receiver	Rohde & Schwarz	ESR7	101133	3.48 SP3	16.09.2025	Yearly	AC Powerlines Test Case
Two Line V-Network (LISN)	Rohde & Schwarz	ENV 216	100022	-	15-04-2025	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	-	08-07-2025	Yearly	

Table 2: Instrument application Software versions

SL. No.	Test Type	Application software	Version
1	Radiated spurious emission measurement in SAC	BATEMC	V2022.0.11.0
2	Radiated spurious emission measurement in FAC	EMC 32	10.60.20

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

PURE SKIES IS AN ADVANCED AIR-CLEANING TECHNOLOGY THAT REDUCES PM2.5 AND PM10 PARTICULATE MATTER CONCENTRATIONS OVER A LARGE AREA IN AMBIENT CONDITIONS. IT IS ESPECIALLY SUITED FOR CITIES, HEAVY INDUSTRIES, POWER PLANTS, MINES, AIRPORTS, AND PORTS.

3.2 Ratings and System Details of Equipment under Test

Table 3: Ratings and System Details as declared by Supplier*

Radio Protocol		LTE Band 5/26 WCDMA Band 5 GSM850MHz				
LTE E-UTRA operating bands		Band	Bandwidth (MHz)	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		5	1.4, 3, 5, 10	824.7 – 848.3	869.7- 893.3	QPSK, 16QAM
		26	1.4 ,3 ,5, 10; 15	824.0 – 849.0	869 – 894	QPSK, 16QAM
WCDMA		5	-	824-849	869-894	QPSK
GSM		850MHz	-	824-849	869-894	GMSK; 8PSK
Transmitted Power for LTE (dBm)		Band	Power Class	Max. Conducted Average. Output Power		
		5	Power Class 3: 23dBm	24.11dBm@10MHz_16QAM_Low Channel		
		26	Power Class 3: 23dBm	23.74dBm@1.4MHz_QPSK_High Channel		
Transmitted Power for WCDMA (dBm)		5	Power class 3: 24dBm	22.76dBm@Low Channel		
Transmitted Power for GSM (dBm)		850	Power class 5: 33dBm	32.18dBm@GPRS850MHz_Low Channel		
Antenna Type		Main Antenna- External				
Number of Antenna		1				
Antenna Gain		Refer Table 4				
Supply Voltage to Product		110VAC through mains				
Environmental conditions	Storage	-20°C to 85° C 30% to 65% RH, non-condensing				
	Operating	15°C to 50° C 30% to 65% RH, non-condensing				
EUT Dimension (H x W x D)		10.14 x 8.26 x 4 inch				

Antenna Type	Frequency Bands (MHz)	Antenna Gain (dBi)
Primary Antenna (External)	Band 2	1.87
	Band 4	3.12
	Band 5	0.91
	Band 12	0.95
	Band 13	2.23
	Band 25	1.87
	Band 26	0.91
	Band 41	2.90
	Band 66	3.12

Table 4: Antenna Gain

***Disclaimer:**

The information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results. Refer the products user manual for more details.

3.3 Measurement Uncertainty

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 5: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
All emissions, radiated	$\pm 6 \text{ dB}$
Temperature	$\pm 3 \text{ }^{\circ}\text{C}$
Supply Voltages	$\pm 3 \%$
Time	$\pm 5 \%$

4 TEST SET-UP AND OPERATION MODE

4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on low, mid and high channels.

4.2 UUT Operation and Software

Sl. No	Board Name	Hardware Name	Hardware Version	Software Name	Software Version
1	RF Board	MPLAB	PIC KIT TM4 in-CIRCUIT DEBUGGER	MPLAB X	IDE v6.20
2	Security Board	Arduino Programmer	IDE 2.3.2	Arduino	Arduino IDE 2.3.2

Hardware version & Identification Number(HVIN) : Refer the cover Page

4.3 Special Accessories and Auxiliary Equipment

- None

4.4 Countermeasures to achieve EMC Compliance

- None

4.5 Report references

Note: Air Pollution Control Equipment has multiple protocols. All the supported wireless protocols and their respective test results are issued in separate test reports, following table lists the report numbers.

Radio Protocol	Report Number
RF test report for FCC Part22 Subpart H & RSS Gen Issue 5, RSS 132 Issue 4	IN25CSFD 001
RF test report for FCC Part24 Subpart E & RSS Gen Issue 5, RSS-133 Issue 6	IN258K1F 001
RF test report for FCC Part27 Subpart C & RSS Gen Issue 5, RSS 139 Issue 4, RSS 199 Issue 4, RSS 130 Issue 2	IN258337 001
RF test report for FCC Part90 Subpart S & RSS Gen Issue 5	IN25DWD0 001
RF Test report for FCC Part15 Subpart C & RSS 247 Issue 3, RSS Gen Issue 5	IN25S64J 001

5 Operational Description of the product

THE PURE SKIES 2.0 SYSTEM INCLUDES BOTH A TRANSMITTER AND A RECEIVER UNIT. THE TRANSMITTER UNIT TRANSMITS PROPRIETARY ALGORITHM-BASED PULSED RADIO WAVES (2.4GHZ). THE RECEIVER UNIT HAS AN OMNIDIRECTIONAL ANTENNA TUNED TO THE ISM BAND (2.4GHZ) AND IT RECEIVES PULSED RADIO WAVES AND CREATES AN ELECTROMAGNETIC FIELD. THAT ACCELERATES THE CLEARANCE OF TARGET POLLUTANTS IN THE SURROUNDING AREA.

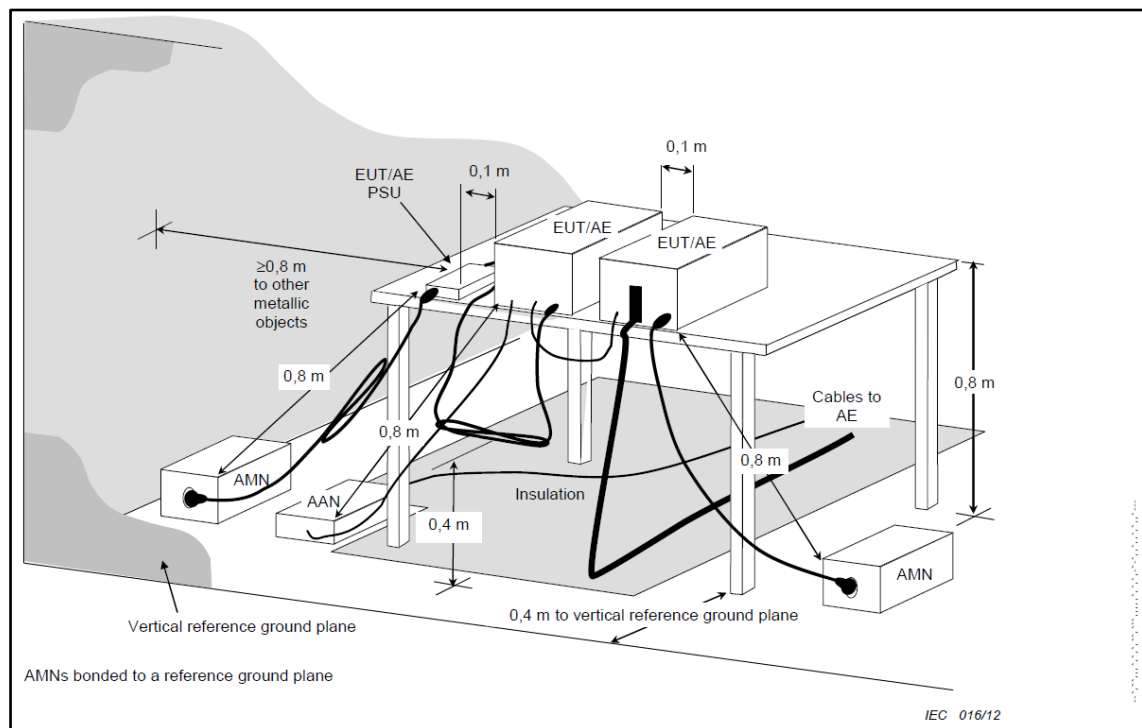
6 TEST METHODOLOGY

6.1 AC Power lines Conducted emission.

Measured levels of ac powerline conducted emission across the 50Ω LISN port (to which the EUT is connected). All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The device is placed on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered with an AC adaptor with 110V AC 60Hz supply.

6.1.1 Test Setup Configuration



6.2 Radiated Emission Test

Frequency Range 9 kHz - 30 MHz

Test performed as per ANSI C63.4-2014 section 8.3

The loop Antenna was placed at 1m above the ground plane & EUT is 3 meters far from the measuring antenna. With 3m measurement distance, correction data were applied to the measured results. The test arrangement, measuring antenna guidelines and operational configurations in 8.2.1 and 8.2.2, shall be followed. The measurement antenna shall be positioned with its plane perpendicular to the ground at the Specified distance, when perpendicular to the ground plane, the lowest height of the magnetic antenna shall be 1 m above the ground and shall be positioned at the specified distance from the EUT. EUT & its associates are placed on non-conducting table of 0.8m height which is placed on the turn table, For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list worst case emission results, for each of the parallel & perpendicular orientations.

6.2.1 Test Setup Configuration

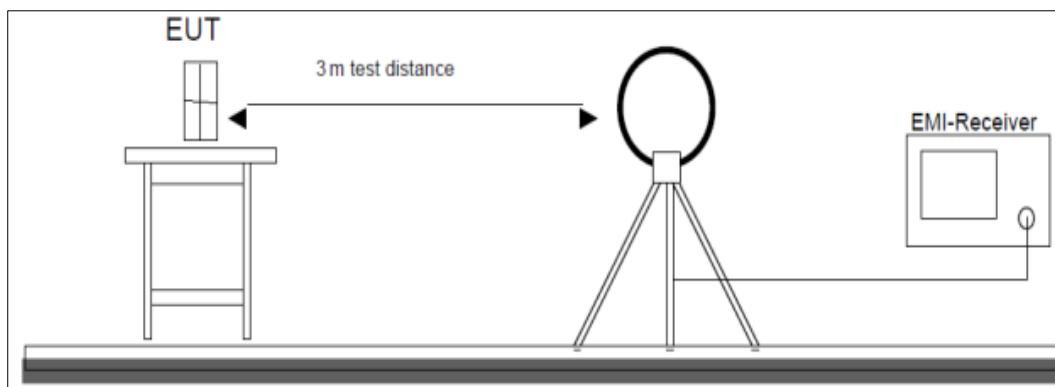


Figure 1: Frequency Range 9 kHz- 30 MHz

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Frequency Range 30MHz to 10th harmonics of the highest fundamental frequency

Test performed as per ANSI C63.26-2015

Radiated spurious emission test are performed as below.

All the radiated emission measurements are performed in accordance with common requirement specified in 5.5.2 and Pre-test site path loss correction factors are used to adjust the EUT emission data in place of two step substitution method (as defined in Annex B of ANSI C63.26-2015).

The equipment under test is placed on non-conductive table at 3m away from the receive antenna in accordance with above mentioned standard. Turn table is rotated through 360 degree, and receiver antenna height is varied in order to determine the level of maximum emission. The maximum emission level and position of the maximized emission is recorded with use of spectrum analyzer.

Using pre-test site path loss to determine EUT emission power:

- 1) EUT emission powers are calculated using the following equation:

$$\text{Emission Power} = \text{EUT}_{\text{Prec}} [\text{dBm EIRP/ ERP}] + \text{P}_L [\text{dB}]$$

where

EUT_{Prec} = power of the emission measured at the test receiver during EUT measurements.

P_L = path loss determined on the frequency of the EUT emission or calculated using linear interpolation between site characterization frequencies.

- 2) This is the level to be compared against the regulatory limit as it is the emission power referenced back to the EUT on the test site.

Test site-up for radiated measurements

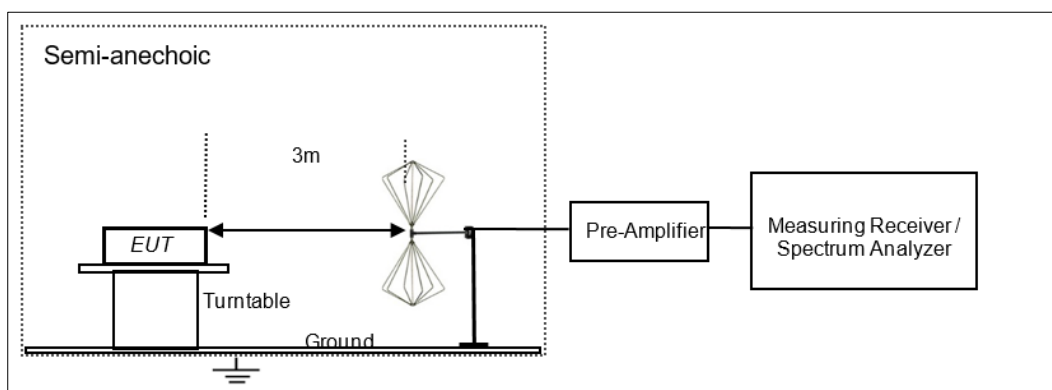


Figure 2: Frequency Range 30 MHz – 200 MHz

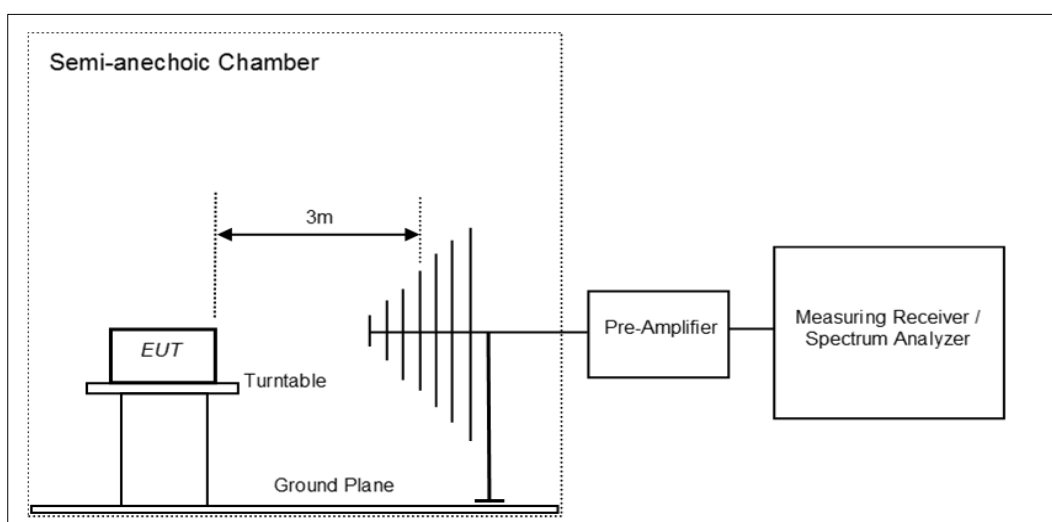


Figure 3: Frequency Range 200 MHz - 1GHz

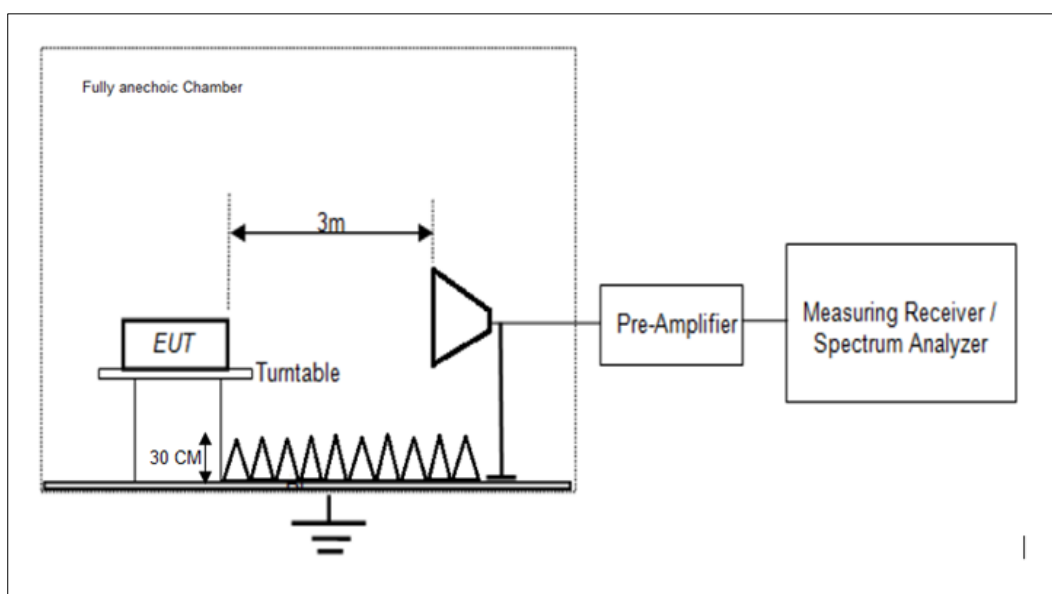
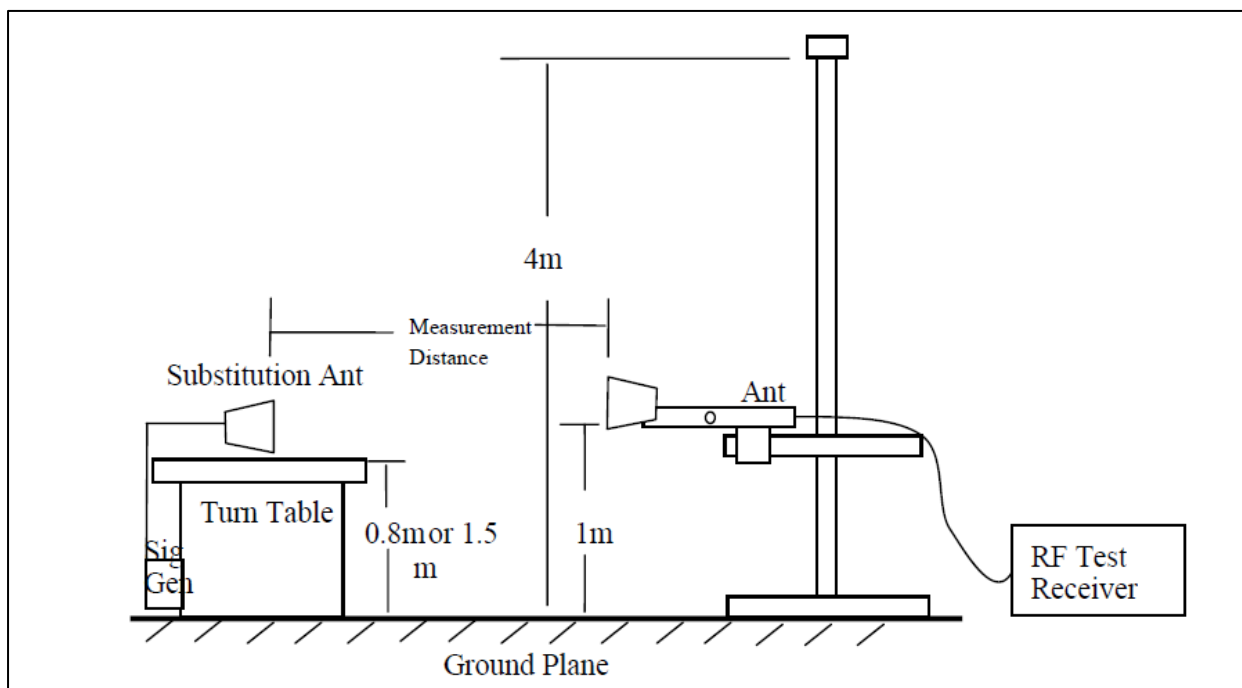


Figure 4: Frequency Range above 1 GHz

Substitution method set-up for radiated emission



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7 TEST RESULTS

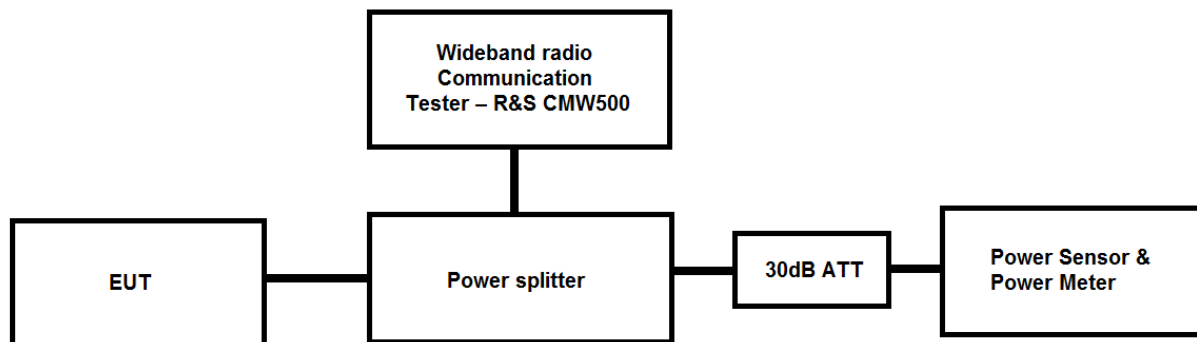
7.1 Peak-Average Ratio

Result

Pass

Specification	FCC Part §2.1046 & §22.913(a)(5)(d) RSS-132, §5.4 ANSI C63.26-2015
Test Method / Procedure	As per subclause 5 in 971168 D01 Power Meas License Digital Systems v03r01
Detector Function	Peak/Average
Requirement	PAPR ≤ 13dB

Test Setup:



Environmental Conditions:

Temperature: +22.5°C

Voltage: 100VAC through mains

Relative Humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 5.2.4 in KDB 971168 D01 Power Meas License Digital Systems v03r01

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Test results:

Note:

- 1 All the losses are included during measurement and final values are mentioned in the test report.
2. Total Average Output power (dBm) = Measured Average power (dBm) + Attenuator factor (30dB) + Power Splitter (6 dB) + Cable loss (1dB)
3. PAPR (dB) = Measured Peak Power(dBm) – Measured Average Power(dBm)

PAPR Test Results

Band	Bandwidth	Modulation	Channel number	RB	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band5	1.4MHz	QPSK	20407	1RB#0	26.74	22.34	4.40	13.00
			20407	1RB#2	26.88	22.55	4.33	13.00
			20407	1RB#5	26.80	22.47	4.33	13.00
			20407	3RB#0	28.14	23.50	4.64	13.00
			20407	3RB#1	28.18	23.59	4.59	13.00
			20407	3RB#3	28.15	23.58	4.57	13.00
			20407	6RB#0	28.61	23.49	5.12	13.00
			20525	1RB#0	26.72	22.26	4.46	13.00
			20525	1RB#5	26.74	22.32	4.42	13.00
			20525	1RB#2	26.68	22.19	4.49	13.00
			20525	3RB#0	27.97	23.39	4.58	13.00
			20525	3RB#1	27.93	23.29	4.64	13.00
			20525	3RB#3	27.92	23.25	4.67	13.00
			20525	6RB#0	28.45	23.37	5.08	13.00
			20643	1RB#5	26.96	22.57	4.39	13.00
			20643	1RB#0	26.75	22.39	4.36	13.00
			20643	1RB#2	27.40	22.95	4.45	13.00
			20643	3RB#0	27.79	23.35	4.44	13.00
			20643	3RB#1	28.19	23.27	4.92	13.00
			20643	3RB#3	27.56	23.06	4.50	13.00
			20643	6RB#0	28.36	23.37	4.99	13.00
	1.4MHz	16QAM	20407	1RB#0	28.19	22.87	5.32	13.00
			20407	1RB#2	28.15	22.95	5.20	13.00
			20407	1RB#5	28.28	22.95	5.33	13.00
			20407	3RB#1	28.32	22.95	5.37	13.00
			20407	3RB#0	28.36	23.05	5.31	13.00
			20407	3RB#3	28.43	23.13	5.30	13.00
			20407	6RB#0	28.07	22.09	5.98	13.00
			20525	1RB#0	27.44	22.54	4.90	13.00
			20525	1RB#2	27.30	22.53	4.77	13.00
			20525	1RB#5	27.32	22.47	4.85	13.00
			20525	3RB#3	27.33	22.45	4.88	13.00
			20525	3RB#0	28.89	23.27	5.62	13.00
			20525	3RB#1	28.78	23.27	5.51	13.00
			20525	6RB#0	28.05	22.33	5.72	13.00
			20643	1RB#2	27.71	22.72	4.99	13.00
			20643	1RB#0	27.50	22.45	5.05	13.00
			20643	1RB#5	27.92	22.93	4.99	13.00
			20643	3RB#0	28.27	23.27	5.00	13.00
			20643	3RB#1	28.21	23.21	5.00	13.00
			20643	3RB#3	28.30	23.22	5.08	13.00
			20643	6RB#0	27.73	21.94	5.79	13.00

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Band	Bandwidth	Modulation	Channel number	RB	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band5	3MHz	QPSK	20415	1RB#8	26.69	22.28	4.41	13.00
			20415	1RB#14	26.97	22.66	4.31	13.00
			20415	1RB#0	27.16	22.72	4.44	13.00
			20415	8RB#0	27.91	23.13	4.78	13.00
			20415	8RB#4	27.92	23.17	4.75	13.00
			20415	8RB#7	27.90	23.16	4.74	13.00
			20415	15RB#0	28.58	23.23	5.35	13.00
			20525	1RB#0	26.95	22.54	4.41	13.00
			20525	1RB#14	26.69	22.40	4.29	13.00
			20525	1RB#8	27.56	23.13	4.43	13.00
			20525	8RB#7	28.03	23.20	4.83	13.00
			20525	8RB#0	28.08	23.31	4.77	13.00
			20525	8RB#4	28.15	23.29	4.86	13.00
			20525	15RB#0	28.46	23.17	5.29	13.00
			20635	1RB#8	27.07	22.80	4.27	13.00
			20635	1RB#0	26.87	22.67	4.20	13.00
			20635	1RB#14	27.33	22.92	4.41	13.00
			20635	8RB#0	26.95	22.59	4.36	13.00
			20635	8RB#7	27.50	22.86	4.64	13.00
			20635	8RB#4	27.72	23.01	4.71	13.00
			20635	15RB#0	28.05	23.00	5.05	13.00
	3MHz	16QAM	20415	1RB#14	27.74	22.86	4.88	13.00
			20415	1RB#0	27.84	23.09	4.75	13.00
			20415	1RB#8	28.07	23.13	4.94	13.00
			20415	8RB#7	27.92	22.34	5.58	13.00
			20415	8RB#4	27.89	22.38	5.51	13.00
			20415	8RB#0	27.87	22.31	5.56	13.00
			20415	15RB#0	28.48	22.38	6.10	13.00
			20525	1RB#14	27.38	22.49	4.89	13.00
			20525	1RB#0	28.06	23.27	4.79	13.00
			20525	1RB#8	27.86	22.98	4.88	13.00
			20525	8RB#7	28.03	22.36	5.67	13.00
			20525	8RB#0	27.94	22.30	5.64	13.00
			20525	8RB#4	27.93	22.30	5.63	13.00
			20525	15RB#0	28.27	22.09	6.18	13.00
			20635	1RB#8	27.80	22.81	4.99	13.00
			20635	1RB#0	27.57	22.65	4.92	13.00
			20635	1RB#14	27.97	22.92	5.05	13.00
			20635	8RB#0	27.89	22.34	5.55	13.00
			20635	8RB#4	27.60	22.08	5.52	13.00
			20635	8RB#7	27.56	22.08	5.48	13.00
			20635	15RB#0	28.08	22.17	5.91	13.00

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Band	Bandwidth	Modulation	Channel number	RB	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band5	5MHz	QPSK	20425	1RB#0	28.24	22.93	5.31	13.00
			20425	1RB#12	27.55	23.22	4.33	13.00
			20425	1RB#24	27.77	23.27	4.50	13.00
			20425	12RB#0	27.68	22.96	4.72	13.00
			20425	12RB#6	27.87	23.12	4.75	13.00
			20425	12RB#13	27.81	23.07	4.74	13.00
			20425	25RB#0	26.80	22.39	4.41	13.00
			20525	1RB#0	27.46	23.14	4.32	13.00
			20525	1RB#24	27.41	23.10	4.31	13.00
			20525	1RB#12	27.00	22.58	4.42	13.00
			20525	12RB#0	27.82	23.19	4.63	13.00
			20525	12RB#6	27.94	23.19	4.75	13.00
			20525	12RB#13	27.92	23.19	4.73	13.00
			20525	25RB#0	28.67	23.16	5.51	13.00
			20625	1RB#24	26.86	22.46	4.40	13.00
			20625	1RB#0	27.06	22.86	4.20	13.00
			20625	1RB#12	27.26	22.84	4.42	13.00
			20625	12RB#0	27.80	23.19	4.61	13.00
			20625	12RB#6	27.62	23.14	4.48	13.00
			20625	12RB#13	27.66	23.13	4.53	13.00
			20625	25RB#0	28.29	23.15	5.14	13.00
	5MHz	16QAM	20425	1RB#0	27.77	22.63	5.14	13.00
			20425	1RB#12	28.25	23.22	5.03	13.00
			20425	1RB#24	28.00	22.83	5.17	13.00
			20425	12RB#6	28.66	23.25	5.41	13.00
			20425	12RB#0	28.70	23.11	5.59	13.00
			20425	12RB#13	28.68	23.30	5.38	13.00
			20425	25RB#0	28.49	22.17	6.32	13.00
			20525	1RB#0	27.72	22.58	5.14	13.00
			20525	1RB#12	27.51	22.53	4.98	13.00
			20525	1RB#24	27.92	22.82	5.10	13.00
			20525	12RB#13	27.64	22.01	5.63	13.00
			20525	12RB#0	27.65	22.01	5.64	13.00
			20525	12RB#6	27.60	22.04	5.56	13.00
			20525	25RB#0	28.69	22.14	6.55	13.00
			20625	1RB#12	27.64	22.46	5.18	13.00
			20625	1RB#0	27.78	22.84	4.94	13.00
			20625	1RB#24	27.97	22.85	5.12	13.00
			20625	12RB#0	27.72	22.26	5.46	13.00
			20625	12RB#6	27.64	22.19	5.45	13.00
			20625	12RB#13	27.62	22.19	5.43	13.00
			20625	25RB#0	28.09	22.15	5.94	13.00

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Band	Bandwidth	Modulation	Channel number	RB	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band5	10MHz	QPSK	20450	1RB#49	27.58	23.15	4.43	13.00
			20450	1RB#24	28.27	23.86	4.41	13.00
			20450	1RB#0	27.76	23.29	4.47	13.00
			20450	25RB#0	28.04	23.22	4.82	13.00
			20450	25RB#12	28.16	23.35	4.81	13.00
			20450	25RB#25	28.13	23.36	4.77	13.00
			20450	50RB#0	28.93	23.27	5.66	13.00
			20525	1RB#0	27.69	23.28	4.41	13.00
			20525	1RB#49	28.15	23.85	4.30	13.00
			20525	1RB#24	26.69	22.34	4.35	13.00
			20525	25RB#25	28.17	23.33	4.84	13.00
			20525	25RB#0	28.11	23.29	4.82	13.00
			20525	25RB#12	28.10	23.29	4.81	13.00
			20525	50RB#0	28.81	23.21	5.60	13.00
			20600	1RB#24	26.84	22.44	4.40	13.00
			20600	1RB#0	27.70	23.44	4.26	13.00
			20600	1RB#49	27.42	23.08	4.34	13.00
			20600	25RB#0	28.25	23.32	4.93	13.00
			20600	25RB#25	27.81	23.28	4.53	13.00
			20600	25RB#12	27.83	23.26	4.57	13.00
			20600	50RB#0	28.13	23.32	4.81	13.00
	10MHz	16QAM	20450	1RB#49	28.10	23.31	4.79	13.00
			20450	1RB#0	28.76	24.11	4.65	13.00
			20450	1RB#24	28.38	23.49	4.89	13.00
			20450	25RB#25	27.94	22.15	5.79	13.00
			20450	25RB#12	28.18	22.39	5.79	13.00
			20450	25RB#0	28.08	22.41	5.67	13.00
			20450	50RB#0	28.70	22.22	6.48	13.00
			20525	1RB#49	28.58	23.34	5.24	13.00
			20525	1RB#0	28.11	22.95	5.16	13.00
			20525	1RB#24	27.50	22.28	5.22	13.00
			20525	25RB#25	28.10	22.43	5.67	13.00
			20525	25RB#0	27.88	22.18	5.70	13.00
			20525	25RB#12	27.87	22.27	5.60	13.00
			20525	50RB#0	28.37	22.29	6.08	13.00
			20600	1RB#24	27.75	22.94	4.81	13.00
			20600	1RB#0	28.31	23.67	4.64	13.00
			20600	1RB#49	28.30	23.59	4.71	13.00
			20600	25RB#0	28.97	22.20	6.77	13.00
			20600	25RB#12	27.68	22.22	5.46	13.00
			20600	25RB#25	27.71	22.23	5.48	13.00
			20600	50RB#0	28.57	22.20	6.37	13.00

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Band-26: (824MHz-849MHz)

Cellular Band	Channel Bandwidth (MHz)	Modulation Technique	Channel Number	RB Pos/RB allocation	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band26	1.4MHz	QPSK	26797	1RB#0	27.47	22.51	4.96	13.00
			26797	1RB#2	28.12	23.59	4.53	
			26797	1RB#5	27.37	22.43	4.94	
			26797	3RB#0	28.20	23.53	4.67	
			26797	3RB#1	27.77	23.05	4.72	
			26797	3RB#3	27.95	23.20	4.75	
			26797	6RB#0	27.98	22.67	5.31	
			26915	1RB#0	27.25	22.44	4.81	
			26915	1RB#5	27.19	22.42	4.77	
			26915	1RB#2	27.15	22.53	4.62	
			26915	3RB#0	27.93	23.17	4.76	
			26915	3RB#1	27.95	23.26	4.69	
			26915	3RB#3	28.09	23.35	4.74	
			26915	6RB#0	27.70	22.42	5.28	
			27033	1RB#5	27.15	22.37	4.78	
			27033	1RB#0	27.18	22.33	4.85	
			27033	1RB#2	27.05	22.41	4.64	
			27033	3RB#0	28.42	23.66	4.76	
			27033	3RB#1	28.36	23.68	4.68	
			27033	3RB#3	28.46	23.74	4.72	
			27033	6RB#0	28.17	22.78	5.39	
		16QAM	26797	1RB#0	28.11	22.98	5.13	
			26797	1RB#2	28.07	23.04	5.03	
			26797	1RB#5	28.24	22.98	5.26	
			26797	3RB#1	28.02	23.05	4.97	
			26797	3RB#0	27.74	22.88	4.86	
			26797	3RB#3	28.28	23.05	5.23	
			26797	6RB#0	27.54	21.88	5.66	
			26915	1RB#0	27.75	22.40	5.35	
			26915	1RB#2	27.74	22.27	5.47	
			26915	1RB#5	27.72	22.40	5.32	
			26915	3RB#3	28.11	22.75	5.36	
			26915	3RB#0	28.23	22.78	5.45	
			26915	3RB#1	28.16	22.83	5.33	
			26915	6RB#0	27.73	21.50	6.23	
			27033	1RB#2	27.35	22.44	4.91	
			27033	1RB#0	27.43	22.58	4.85	
			27033	1RB#5	27.42	22.56	4.86	
			27033	3RB#0	27.58	22.56	5.02	
			27033	3RB#1	27.56	22.70	4.86	
			27033	3RB#3	27.61	22.50	5.11	
			27033	6RB#0	27.33	21.24	6.09	

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Cellular Band	Channel Bandwidth (MHz)	Modulation Technique	Channel Number	RB Pos/RB allocation	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band26	3MHz	QPSK	26805	1RB#8	27.46	22.94	4.52	13.00
			26805	1RB#14	27.12	22.72	4.40	
			26805	1RB#0	27.62	23.08	4.54	
			26805	8RB#0	26.71	21.52	5.19	
			26805	8RB#4	26.89	21.64	5.25	
			26805	8RB#7	26.89	21.65	5.24	
			26805	15RB#0	25.74	22.39	3.35	
			26915	1RB#0	26.10	22.61	3.49	
			26915	1RB#14	26.89	22.51	4.38	
			26915	1RB#8	26.89	22.57	4.32	
			26915	8RB#7	26.89	22.57	4.32	
			26915	8RB#0	27.47	22.57	4.90	
			26915	8RB#4	25.93	22.51	3.42	
			26915	15RB#0	26.11	22.81	3.30	
			27025	1RB#8	26.16	22.53	3.63	
			27025	1RB#0	26.75	22.47	4.28	
			27025	1RB#14	26.71	22.45	4.26	
			27025	8RB#0	26.45	22.50	3.95	
			27025	8RB#7	27.23	22.48	4.75	
			27025	8RB#4	25.74	22.39	3.35	
			27025	15RB#0	26.10	22.61	3.49	
		16QAM	26805	1RB#14	26.22	22.62	3.60	
			26805	1RB#0	25.84	22.50	3.34	
			26805	1RB#8	26.41	22.80	3.61	
			26805	8RB#7	27.04	22.71	4.33	
			26805	8RB#4	27.08	22.73	4.35	
			26805	8RB#0	27.50	22.71	4.79	
			26805	15RB#0	27.55	22.74	4.81	
			26915	1RB#14	27.01	22.96	4.05	
			26915	1RB#0	27.00	22.94	4.06	
			26915	1RB#8	26.73	22.94	3.79	
			26915	8RB#7	26.75	21.63	5.12	
			26915	8RB#0	26.77	21.70	5.07	
			26915	8RB#4	26.71	21.62	5.09	
			26915	15RB#0	27.26	21.57	5.69	
			27025	1RB#8	27.08	22.82	4.26	
			27025	1RB#0	27.03	22.90	4.13	
			27025	1RB#14	27.25	22.87	4.38	
			27025	8RB#0	26.69	21.52	5.17	
			27025	8RB#4	26.57	21.42	5.15	
			27025	8RB#7	26.59	21.43	5.16	
			27025	15RB#0	27.04	21.36	5.68	

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Cellular Band	Channel Bandwidth (MHz)	Modulation Technique	Channel Number	RB Pos/RB allocation	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band26	5MHz	QPSK	26815	1RB#0	26.17	22.64	3.53	13.00
			26815	1RB#12	25.99	22.65	3.34	
			26815	1RB#24	26.56	23.04	3.52	
			26815	12RB#0	27.14	22.69	4.45	
			26815	12RB#6	27.34	22.87	4.47	
			26815	12RB#13	27.36	22.84	4.52	
			26815	25RB#0	28.15	22.79	5.36	
			26915	1RB#0	25.86	22.39	3.47	
			26915	1RB#24	25.70	22.34	3.36	
			26915	1RB#12	26.12	22.63	3.49	
			26915	12RB#0	26.85	22.55	4.30	
			26915	12RB#6	26.81	22.56	4.25	
			26915	12RB#13	26.75	22.46	4.29	
			26915	25RB#0	27.55	22.52	5.03	
			27015	1RB#24	25.99	22.60	3.39	
			27015	1RB#0	26.43	23.16	3.27	
			27015	1RB#12	26.03	22.47	3.56	
			27015	12RB#0	26.82	22.57	4.25	
			27015	12RB#6	26.79	22.52	4.27	
			27015	12RB#13	26.77	22.51	4.26	
			27015	25RB#0	27.57	22.59	4.98	
		16QAM	26815	1RB#0	27.39	23.16	4.23	
			26815	1RB#12	27.28	23.16	4.12	
			26815	1RB#24	27.76	23.56	4.20	
			26815	12RB#6	27.14	27.06	0.08	
			26815	12RB#0	27.11	21.73	5.38	
			26815	12RB#13	26.91	21.55	5.36	
			26815	25RB#0	27.86	21.89	5.97	
			26915	1RB#0	26.94	22.39	4.55	
			26915	1RB#12	26.80	22.44	4.36	
			26915	1RB#24	27.33	22.78	4.55	
			26915	12RB#13	26.80	21.59	5.21	
			26915	12RB#0	26.93	21.68	5.25	
			26915	12RB#6	26.91	21.61	5.30	
			26915	25RB#0	27.42	21.72	5.70	
			27015	1RB#12	26.92	22.42	4.50	
			27015	1RB#0	26.43	22.35	4.08	
			27015	1RB#24	25.98	21.54	4.44	
			27015	12RB#0	26.75	21.69	5.06	
			27015	12RB#6	26.80	21.60	5.20	
			27015	12RB#13	26.81	21.61	5.20	
			27015	25RB#0	27.40	21.56	5.84	

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Cellular Band	Channel Bandwidth (MHz)	Modulation Technique	Channel Number	RB Pos/RB allocation	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
Band26	10MHz	QPSK	26840	1RB#49	26.01	22.42	4.64	13.00
			26840	1RB#24	26.30	22.87	4.45	
			26840	1RB#0	25.89	22.46	4.56	
			26840	25RB#0	27.28	22.78	5.06	
			26840	25RB#12	27.00	22.72	5.04	
			26840	25RB#25	26.99	22.73	5.12	
			26840	50RB#0	27.50	22.82	5.03	
			26915	1RB#0	26.66	23.12	4.86	
			26915	1RB#49	26.82	23.45	4.56	
			26915	1RB#24	27.02	23.51	4.49	
			26915	25RB#25	26.89	22.59	5.17	
			26915	25RB#0	26.94	22.65	5.26	
			26915	25RB#12	26.93	22.66	5.13	
			26915	50RB#0	27.75	22.60	5.13	
			26990	1RB#24	26.98	23.45	4.50	
			26990	1RB#0	26.83	23.48	4.78	
			26990	1RB#49	25.93	22.35	4.53	
			26990	25RB#0	26.95	22.59	4.96	
			26990	25RB#25	26.83	22.63	4.84	
			26990	25RB#12	27.89	22.46	4.83	
			26990	50RB#0	27.65	22.55	5.81	
		16QAM	26840	1RB#49	27.23	22.95	5.29	
			26840	1RB#0	27.17	22.79	5.14	
			26840	1RB#24	27.20	23.03	5.25	
			26840	25RB#25	27.28	21.89	6.07	
			26840	25RB#12	27.31	21.95	5.84	
			26840	25RB#0	27.04	21.80	5.99	
			26840	50RB#0	28.13	21.91	5.85	
			26915	1RB#49	27.07	22.36	5.29	
			26915	1RB#0	27.03	22.74	5.35	
			26915	1RB#24	27.17	22.71	5.26	
			26915	25RB#25	26.99	21.75	5.94	
			26915	25RB#0	26.90	21.77	6.02	
			26915	25RB#12	26.92	21.75	5.89	
			26915	50RB#0	27.65	21.56	6.10	
			26990	1RB#24	27.02	22.77	4.60	
			26990	1RB#0	26.74	22.99	5.49	
			26990	1RB#49	26.38	22.32	5.08	
			26990	25RB#0	26.83	21.66	6.07	
			26990	25RB#12	26.67	21.53	5.87	
			26990	25RB#25	26.69	21.54	5.92	
			26990	50RB#0	27.64	21.53	6.84	

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Cellular Band	Channel Bandwidth (MHz)	Modulation Technique	Channel Number	RB Pos/RB allocation	Measured peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
26	15MHz	QPSK	26865	1RB#0	26.47	22.94	3.53	13
			26865	1RB#38	27.27	23.73	3.54	
			26865	1RB#74	26.44	22.94	3.50	
			26865	36RB#0	27.23	22.76	4.47	
			26865	36RB#18	27.18	22.61	4.57	
			26865	36RB#39	27.21	22.75	4.46	
			26865	75RB#0	27.76	22.58	5.18	
			26915	1RB#0	26.57	23.04	3.53	
			26915	1RB#38	26.74	23.35	3.39	
			26915	1RB#74	27.10	23.62	3.48	
			26915	36RB#0	27.12	22.60	4.52	
			26915	36RB#18	27.05	22.67	4.38	
			26915	36RB#39	26.98	22.59	4.39	
			26915	75RB#0	27.85	22.56	5.29	
			26965	1RB#0	26.56	23.06	3.50	
			26965	1RB#38	26.71	23.34	3.37	
			26965	1RB#74	26.56	23.06	3.50	
			26965	36RB#0	26.99	22.53	4.46	
			26965	36RB#18	26.90	22.55	4.35	
			26965	36RB#39	27.13	22.59	4.54	
			26965	75RB#0	27.62	22.53	5.09	
		16QAM	26865	1RB#0	27.43	23.07	4.36	
			26865	1RB#38	26.92	22.79	4.13	
			26865	1RB#74	27.57	23.26	4.31	
			26865	36RB#0	27.35	21.90	5.45	
			26865	36RB#18	26.99	21.75	5.24	
			26865	36RB#39	27.02	21.68	5.34	
			26865	75RB#0	27.48	21.63	5.85	
			26915	1RB#0	26.56	22.57	3.99	
			26915	1RB#38	26.76	22.90	3.86	
			26915	1RB#74	27.00	23.06	3.94	
			26915	36RB#0	26.90	21.70	5.20	
			26915	36RB#18	26.96	21.60	5.36	
			26915	36RB#39	26.94	21.61	5.33	
			26915	75RB#0	27.47	21.62	5.85	
			26965	1RB#0	26.65	22.55	4.10	
			26965	1RB#38	26.64	22.67	3.97	
			26965	1RB#74	26.75	22.70	4.05	
			26965	36RB#0	26.89	21.61	5.28	
			26965	36RB#18	26.82	21.63	5.19	
			26965	36RB#39	26.79	21.65	5.14	
			26965	75RB#0	27.41	21.60	5.81	

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Test Results for WCDMA Band 5:

Mode	Channel Frequency (MHz)	Measured Average Power (dBm)	Measured Peak Power (dBm)	PAPR (dB)	PAPR Limit (dB)
WCDMA	826.40	22.76	26.37	3.61	13.00
	836.40	22.35	24.96	2.61	13.00
	846.60	22.75	26.90	4.15	13.00
HSDPA Subtest1	826.40	22.92	27.08	4.16	13.00
	836.40	22.78	26.89	4.11	13.00
	846.60	22.13	26.69	4.56	13.00
HSDPA Subtest2	826.40	21.63	26.16	4.53	13.00
	836.40	21.14	25.66	4.52	13.00
	846.60	21.44	24.87	3.43	13.00
HSDPA Subtest3	826.40	21.51	26.27	4.76	13.00
	836.40	21.42	24.56	3.14	13.00
	846.60	20.70	24.31	3.61	13.00
HSDPA Subtest4	826.40	21.11	23.22	2.11	13.00
	836.40	21.15	23.70	2.55	13.00
	846.60	20.19	23.61	3.42	13.00
HSUPA Subtest1	826.40	22.14	25.70	3.56	13.00
	836.40	22.91	26.79	3.88	13.00
	846.60	22.58	26.50	3.92	13.00
HSUPA Subtest2	826.40	22.15	25.80	3.65	13.00
	836.40	21.81	24.42	2.61	13.00
	846.60	21.33	24.14	2.81	13.00
HSUPA Subtest3	826.40	21.01	23.22	2.21	13.00
	836.40	21.05	23.58	2.53	13.00
	846.60	21.15	23.46	2.31	13.00
HSUPA Subtest4	826.40	21.13	23.75	2.62	13.00
	836.40	20.18	22.91	2.73	13.00
	846.60	20.15	23.76	3.61	13.00

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Test Results for GSM 850MHz:

Mode	Frequency (MHz)	Measured Average power (dBm)	Measured Peak Power (dBm)	PAPR (dB)	PAPR Limit (dB)
GPRS (GMSK, 1-slot)	824.20	32.18	34.29	2.11	13.00
	836.60	32.16	34.29	2.13	13.00
	848.80	31.45	34.06	2.61	13.00
GPRS (GMSK, 2-slot)	824.20	31.81	35.04	3.23	13.00
	836.60	31.19	34.33	3.14	13.00
	848.80	32.14	35.37	3.23	13.00
GPRS (GMSK, 3-slot)	824.20	29.68	32.83	3.15	13.00
	836.60	29.52	33.19	3.67	13.00
	848.80	29.76	33.65	3.89	13.00
GPRS (GMSK, 4-slot)	824.20	28.11	32.64	4.53	13.00
	836.60	28.32	32.99	4.67	13.00
	848.80	28.31	33.74	5.43	13.00
EGPRS (8PSK, 1-slot)	824.20	28.14	33.46	5.32	13.00
	836.60	28.73	33.94	5.21	13.00
	848.80	28.91	35.66	6.75	13.00
EGPRS (8PSK, 2-slot)	824.20	27.92	34.24	6.32	13.00
	836.60	27.77	34.54	6.77	13.00
	848.80	27.14	32.57	5.43	13.00
EGPRS (8PSK, 3-slot)	824.20	25.16	28.72	3.56	13.00
	836.60	25.11	28.55	3.44	13.00
	848.80	25.34	29.91	4.57	13.00
EGPRS (8PSK, 4-slot)	824.20	24.31	30.93	6.62	13.00
	836.60	23.89	32.54	8.65	13.00
	848.80	24.45	31.01	6.56	13.00

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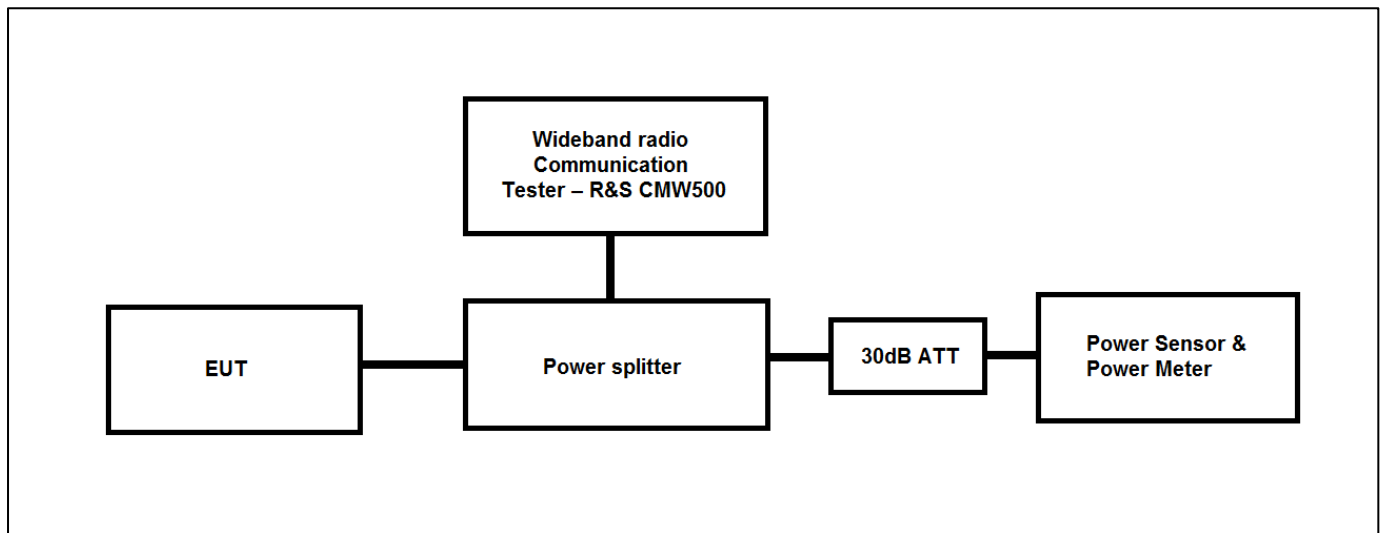
7.2 Effective (Isotropic) Radiated Power

Result

Pass

Specification	FCC Part §2.1046 & Part §22.913 RSS-Gen, §6.12; RSS-132, §5.4 ANSI C63.26-2015
Test Method / Procedure	As per subclause 5 in 971168 D01 Power Meas License Digital Systems v03r01
Detector Function	Average
Requirement	The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts

Test Setup:



Environmental Conditions:

Temperature: +22.5°C

Voltage: 12VDC through AC-DC Adapter

Relative Humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 5.2.4 in KDB 971168 D01 Power Meas License Digital Systems v03r01

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Test Results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Average Output power (dBm) = Measured Average power (dBm) + Attenuator factor (30dB) + Power Splitter (3.3 dB) + Cable loss (1dB)
3. For getting the EIRP(Equivalent Isotropic Radiated Power), the following formula should be taken to calculate it,
ERP (dBm) = Conducted power (dBm) + Antenna gain (dBd)
EIRP (dBm) = Conducted power (dBm) + Antenna gain (dBi)

Band	Bandwidth	Modulation	Channel number	RB Position & RB allocation	Measured Average Power (dBm)	ERP (dBm)	limit (dBm)
Band5	1.4MHz	QPSK	20407	1RB#0	22.34	21.43	38.45
			20407	1RB#2	22.55	21.64	38.45
			20407	1RB#5	22.47	21.56	38.45
			20407	3RB#0	23.50	22.59	38.45
			20407	3RB#1	23.59	22.68	38.45
			20407	3RB#3	23.58	22.67	38.45
			20407	6RB#0	23.49	22.58	38.45
			20525	1RB#0	22.26	21.35	38.45
			20525	1RB#5	22.32	21.41	38.45
			20525	1RB#2	22.19	21.28	38.45
			20525	3RB#0	23.39	22.48	38.45
			20525	3RB#1	23.29	22.38	38.45
			20525	3RB#3	23.25	22.34	38.45
			20525	6RB#0	23.37	22.46	38.45
			20643	1RB#5	22.57	21.66	38.45
			20643	1RB#0	22.39	21.48	38.45
			20643	1RB#2	22.95	22.04	38.45
			20643	3RB#0	23.35	22.44	38.45
			20643	3RB#1	23.27	22.36	38.45
			20643	3RB#3	23.06	22.15	38.45
			20643	6RB#0	23.37	22.46	38.45
	1.4MHz	16QAM	20407	1RB#0	22.87	21.96	38.45
			20407	1RB#2	22.95	22.04	38.45
			20407	1RB#5	22.95	22.04	38.45
			20407	3RB#1	22.95	22.04	38.45
			20407	3RB#0	23.05	22.14	38.45
			20407	3RB#3	23.13	22.22	38.45
			20407	6RB#0	22.09	21.18	38.45
			20525	1RB#0	22.54	21.63	38.45
			20525	1RB#2	22.53	21.62	38.45
			20525	1RB#5	22.47	21.56	38.45
			20525	3RB#3	22.45	21.54	38.45
			20525	3RB#0	23.27	22.36	38.45
			20525	3RB#1	23.27	22.36	38.45
			20525	6RB#0	22.33	21.42	38.45
			20643	1RB#2	22.72	21.81	38.45
			20643	1RB#0	22.45	21.54	38.45
			20643	1RB#5	22.93	22.02	38.45
			20643	3RB#0	23.27	22.36	38.45
			20643	3RB#1	23.21	22.30	38.45
			20643	3RB#3	23.22	22.31	38.45
			20643	6RB#0	21.94	21.03	38.45

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Band	Bandwidth	Modulation	Channel number	RB Position & RB allocation	Measured Average Power (dBm)	ERP (dBm)	limit (dBm)
Band5	3MHz	QPSK	20415	1RB#8	22.28	21.37	38.45
			20415	1RB#14	22.66	21.75	38.45
			20415	1RB#0	22.72	21.81	38.45
			20415	8RB#0	23.13	22.22	38.45
			20415	8RB#4	23.17	22.26	38.45
			20415	8RB#7	23.16	22.25	38.45
			20415	15RB#0	23.23	22.32	38.45
			20525	1RB#0	22.54	21.63	38.45
			20525	1RB#14	22.40	21.49	38.45
			20525	1RB#8	23.13	22.22	38.45
			20525	8RB#7	23.20	22.29	38.45
			20525	8RB#0	23.31	22.40	38.45
			20525	8RB#4	23.29	22.38	38.45
			20525	15RB#0	23.17	22.26	38.45
			20635	1RB#8	22.80	21.89	38.45
			20635	1RB#0	22.67	21.76	38.45
			20635	1RB#14	22.92	22.01	38.45
			20635	8RB#0	22.59	21.68	38.45
			20635	8RB#7	22.86	21.95	38.45
			20635	8RB#4	23.01	22.10	38.45
			20635	15RB#0	23.00	22.09	38.45
	3MHz	16QAM	20415	1RB#14	22.86	21.95	38.45
			20415	1RB#0	23.09	22.18	38.45
			20415	1RB#8	23.13	22.22	38.45
			20415	8RB#7	22.34	21.43	38.45
			20415	8RB#4	22.38	21.47	38.45
			20415	8RB#0	22.31	21.40	38.45
			20415	15RB#0	22.38	21.47	38.45
			20525	1RB#14	22.49	21.58	38.45
			20525	1RB#0	23.27	22.36	38.45
			20525	1RB#8	22.98	22.07	38.45
			20525	8RB#7	22.36	21.45	38.45
			20525	8RB#0	22.30	21.39	38.45
			20525	8RB#4	22.30	21.39	38.45
			20525	15RB#0	22.09	21.18	38.45
			20635	1RB#8	22.81	21.90	38.45
			20635	1RB#0	22.65	21.74	38.45
			20635	1RB#14	22.92	22.01	38.45
			20635	8RB#0	22.34	21.43	38.45
			20635	8RB#4	22.08	21.17	38.45
			20635	8RB#7	22.08	21.17	38.45
			20635	15RB#0	22.17	21.26	38.45

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Band	Bandwidth	Modulation	Channel number	RB Position & RB allocation	Measured Average Power (dBm)	ERP (dBm)	limit (dBm)
Band5	5MHz	QPSK	20425	1RB#0	22.93	22.02	38.45
			20425	1RB#12	23.22	22.31	38.45
			20425	1RB#24	23.27	22.36	38.45
			20425	12RB#0	22.96	22.05	38.45
			20425	12RB#6	23.12	22.21	38.45
			20425	12RB#13	23.07	22.16	38.45
			20425	25RB#0	22.39	21.48	38.45
			20525	1RB#0	23.14	22.23	38.45
			20525	1RB#24	23.10	22.19	38.45
			20525	1RB#12	22.58	21.67	38.45
			20525	12RB#0	23.19	22.28	38.45
			20525	12RB#6	23.19	22.28	38.45
			20525	12RB#13	23.19	22.28	38.45
			20525	25RB#0	23.16	22.25	38.45
			20625	1RB#24	22.46	21.55	38.45
			20625	1RB#0	22.86	21.95	38.45
			20625	1RB#12	22.84	21.93	38.45
			20625	12RB#0	23.19	22.28	38.45
			20625	12RB#6	23.14	22.23	38.45
			20625	12RB#13	23.13	22.22	38.45
			20625	25RB#0	23.15	22.24	38.45
	5MHz	16QAM	20425	1RB#0	22.63	21.72	38.45
			20425	1RB#12	23.22	22.31	38.45
			20425	1RB#24	22.83	21.92	38.45
			20425	12RB#6	23.25	22.34	38.45
			20425	12RB#0	23.11	22.20	38.45
			20425	12RB#13	23.30	22.39	38.45
			20425	25RB#0	22.17	21.26	38.45
			20525	1RB#0	22.58	21.67	38.45
			20525	1RB#12	22.53	21.62	38.45
			20525	1RB#24	22.82	21.91	38.45
			20525	12RB#13	22.01	21.10	38.45
			20525	12RB#0	22.01	21.10	38.45
			20525	12RB#6	22.04	21.13	38.45
			20525	25RB#0	22.14	21.23	38.45
			20625	1RB#12	22.46	21.55	38.45
			20625	1RB#0	22.84	21.93	38.45
			20625	1RB#24	22.85	21.94	38.45
			20625	12RB#0	22.26	21.35	38.45
			20625	12RB#6	22.19	21.28	38.45
			20625	12RB#13	22.19	21.28	38.45
			20625	25RB#0	22.15	21.24	38.45

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Band	Bandwidth	Modulation	Channel number	RB Position & RB allocation	Measured Average Power (dBm)	ERP (dBm)	limit (dBm)
Band 5	10MHz	QPSK	20450	1RB#49	23.15	22.24	38.45
			20450	1RB#24	23.86	22.95	38.45
			20450	1RB#0	23.29	22.38	38.45
			20450	25RB#0	23.22	22.31	38.45
			20450	25RB#12	23.35	22.44	38.45
			20450	25RB#25	23.36	22.45	38.45
			20450	50RB#0	23.27	22.36	38.45
			20525	1RB#0	23.28	22.37	38.45
			20525	1RB#49	23.85	22.94	38.45
			20525	1RB#24	22.34	21.43	38.45
			20525	25RB#25	23.33	22.42	38.45
			20525	25RB#0	23.29	22.38	38.45
			20525	25RB#12	23.29	22.38	38.45
			20525	50RB#0	23.21	22.30	38.45
			20600	1RB#24	22.44	21.53	38.45
			20600	1RB#0	23.44	22.53	38.45
			20600	1RB#49	23.08	22.17	38.45
			20600	25RB#0	23.32	22.41	38.45
			20600	25RB#25	23.28	22.37	38.45
			20600	25RB#12	23.26	22.35	38.45
			20600	50RB#0	23.32	22.41	38.45
	10MHz	16QAM	20450	1RB#49	23.31	22.40	38.45
			20450	1RB#0	24.11	23.20	38.45
			20450	1RB#24	23.49	22.58	38.45
			20450	25RB#25	22.15	21.24	38.45
			20450	25RB#12	22.39	21.48	38.45
			20450	25RB#0	22.41	21.50	38.45
			20450	50RB#0	22.22	21.31	38.45
			20525	1RB#49	23.34	22.43	38.45
			20525	1RB#0	22.95	22.04	38.45
			20525	1RB#24	22.28	21.37	38.45
			20525	25RB#25	22.43	21.52	38.45
			20525	25RB#0	22.18	21.27	38.45
			20525	25RB#12	22.27	21.36	38.45
			20525	50RB#0	22.29	21.38	38.45
			20600	1RB#24	22.94	22.03	38.45
			20600	1RB#0	23.67	22.76	38.45
			20600	1RB#49	23.59	22.68	38.45
			20600	25RB#0	22.20	21.29	38.45
			20600	25RB#12	22.22	21.31	38.45
			20600	25RB#25	22.23	21.32	38.45
			20600	50RB#0	22.20	21.29	38.45

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Band 26: 824MHz to 849MHz

Cellular Band	Channel Bandwidth (MHz)	Modulation Technique	Channel Number	RB Pos/RB allocation	Measured Average Power (dBm)	ERP (dBm)	limit (dBm)
Band26	1.4MHz	QPSK	26697	1RB#0	22.22	20.98	38.45
			26697	1RB#2	22.20	20.96	38.45
			26697	1RB#5	22.30	21.06	38.45
			26697	3RB#0	23.88	22.64	38.45
			26697	3RB#1	23.74	22.50	38.45
			26697	3RB#3	23.76	22.52	38.45
			26697	6RB#0	22.71	21.47	38.45
			26740	1RB#0	22.23	20.99	38.45
			26740	1RB#5	22.41	21.17	38.45
			26740	1RB#2	22.28	21.04	38.45
			26740	3RB#0	23.52	22.28	38.45
			26740	3RB#1	23.48	22.24	38.45
			26740	3RB#3	23.52	22.28	38.45
			26740	6RB#0	22.66	21.42	38.45
			26783	1RB#5	22.58	21.34	38.45
			26783	1RB#0	22.41	21.17	38.45
			26783	1RB#2	23.22	21.98	38.45
			26783	3RB#0	23.77	22.53	38.45
			26783	3RB#1	23.51	22.27	38.45
			26783	3RB#3	23.62	22.38	38.45
Band26	1.4MHz	16QAM	26783	6RB#0	22.48	21.24	38.45
			26697	1RB#0	22.66	21.42	38.45
			26697	1RB#2	22.77	21.53	38.45
			26697	1RB#5	22.67	21.43	38.45
			26697	3RB#1	22.80	21.56	38.45
			26697	3RB#0	22.59	21.35	38.45
			26697	3RB#3	22.62	21.38	38.45
			26697	6RB#0	21.54	20.30	38.45
			26740	1RB#0	22.20	20.96	38.45
			26740	1RB#2	22.35	21.11	38.45
			26740	1RB#5	22.44	21.20	38.45
			26740	3RB#3	22.69	21.45	38.45
			26740	3RB#0	22.70	21.46	38.45
			26740	3RB#1	22.67	21.43	38.45
			26740	6RB#0	21.50	20.26	38.45
			26783	1RB#2	22.63	21.39	38.45
			26783	1RB#0	22.73	21.49	38.45
			26783	1RB#5	22.51	21.27	38.45
			26783	3RB#0	22.50	21.26	38.45
			26783	3RB#1	22.01	20.77	38.45
			26783	3RB#3	22.03	20.79	38.45
			26783	6RB#0	21.68	20.44	38.45

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Band26	3MHz	QPSK	26705	1RB#8	22.94	21.70	38.45
			26705	1RB#14	22.72	21.48	38.45
			26705	1RB#0	23.08	21.84	38.45
			26705	8RB#0	21.52	20.28	38.45
			26705	8RB#4	21.64	20.40	38.45
			26705	8RB#7	21.65	20.41	38.45
			26705	15RB#0	21.73	20.49	38.45
			26740	1RB#0	22.54	21.30	38.45
			26740	1RB#14	22.39	21.15	38.45
			26740	1RB#8	22.61	21.37	38.45
			26740	8RB#7	22.51	21.27	38.45
			26740	8RB#0	22.57	21.33	38.45
			26740	8RB#4	22.57	21.33	38.45
			26740	15RB#0	22.57	21.33	38.45
			26775	1RB#8	22.51	21.27	38.45
			26775	1RB#0	22.81	21.57	38.45
			26775	1RB#14	22.53	21.29	38.45
			26775	8RB#0	22.47	21.23	38.45
			26775	8RB#7	22.45	21.21	38.45
			26775	8RB#4	22.50	21.26	38.45
			26775	15RB#0	22.48	21.24	38.45
Band26	3MHz	16QAM	26705	1RB#14	22.62	21.38	38.45
			26705	1RB#0	22.50	21.26	38.45
			26705	1RB#8	22.80	21.56	38.45
			26705	8RB#7	22.71	21.47	38.45
			26705	8RB#4	22.73	21.49	38.45
			26705	8RB#0	22.71	21.47	38.45
			26705	15RB#0	22.74	21.50	38.45
			26740	1RB#14	22.96	21.72	38.45
			26740	1RB#0	22.94	21.70	38.45
			26740	1RB#8	22.94	21.70	38.45
			26740	8RB#7	21.63	20.39	38.45
			26740	8RB#0	21.70	20.46	38.45
			26740	8RB#4	21.62	20.38	38.45
			26740	15RB#0	21.57	20.33	38.45
			26775	1RB#8	22.82	21.58	38.45
			26775	1RB#0	22.90	21.66	38.45
			26775	1RB#14	22.87	21.63	38.45
			26775	8RB#0	21.52	20.28	38.45
			26775	8RB#4	21.42	20.18	38.45
			26775	8RB#7	21.43	20.19	38.45
			26775	15RB#0	21.36	20.12	38.45

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Band26	5MHz	QPSK	26715	1RB#0	22.64	21.40	38.45
			26715	1RB#12	22.65	21.41	38.45
			26715	1RB#24	23.04	21.80	38.45
			26715	12RB#0	22.69	21.45	38.45
			26715	12RB#6	22.87	21.63	38.45
			26715	12RB#13	22.84	21.60	38.45
			26715	25RB#0	22.79	21.55	38.45
			26740	1RB#0	22.39	21.15	38.45
			26740	1RB#24	22.34	21.10	38.45
			26740	1RB#12	22.63	21.39	38.45
			26740	12RB#0	22.55	21.31	38.45
			26740	12RB#6	22.56	21.32	38.45
			26740	12RB#13	22.46	21.22	38.45
			26740	25RB#0	22.52	21.28	38.45
			26765	1RB#24	22.60	21.36	38.45
			26765	1RB#0	23.16	21.92	38.45
			26765	1RB#12	22.47	21.23	38.45
			26765	12RB#0	22.57	21.33	38.45
			26765	12RB#6	22.52	21.28	38.45
			26765	12RB#13	22.51	21.27	38.45
26765		25RB#0	22.59	21.35	38.45		
Band26		16QAM	26715	1RB#0	23.16	21.92	38.45
			26715	1RB#12	23.16	21.92	38.45
			26715	1RB#24	23.56	22.32	38.45
			26715	12RB#6	27.06	25.82	38.45
			26715	12RB#0	21.73	20.49	38.45
			26715	12RB#13	21.55	20.31	38.45
			26715	25RB#0	21.89	20.65	38.45
			26740	1RB#0	22.39	21.15	38.45
			26740	1RB#12	22.44	21.20	38.45
			26740	1RB#24	22.78	21.54	38.45
			26740	12RB#13	21.59	20.35	38.45
			26740	12RB#0	21.68	20.44	38.45
			26740	12RB#6	21.61	20.37	38.45
			26740	25RB#0	21.72	20.48	38.45
			26765	1RB#12	22.42	21.18	38.45
			26765	1RB#0	22.35	21.11	38.45
			26765	1RB#24	21.54	20.30	38.45
			26765	12RB#0	21.69	20.45	38.45
			26765	12RB#6	21.60	20.36	38.45
	26765		12RB#13	21.61	20.37	38.45	
26765	25RB#0	21.56	20.32	38.45			

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Band26	10MHz	QPSK	26740	1RB#49	22.42	21.18	38.45
			26740	1RB#24	22.87	21.63	38.45
			26740	1RB#0	22.46	21.22	38.45
			26740	25RB#0	22.78	21.54	38.45
			26740	25RB#12	22.72	21.48	38.45
			26740	25RB#25	22.73	21.49	38.45
			26740	50RB#0	22.82	21.58	38.45
			26915	1RB#0	23.12	21.88	38.45
			26915	1RB#49	23.45	22.21	38.45
			26915	1RB#24	23.51	22.27	38.45
			26915	25RB#25	22.59	21.35	38.45
			26915	25RB#0	22.65	21.41	38.45
			26915	25RB#12	22.66	21.42	38.45
			26915	50RB#0	22.60	21.36	38.45
			26990	1RB#24	23.45	22.21	38.45
			26990	1RB#0	23.48	22.24	38.45
			26990	1RB#49	22.35	21.11	38.45
			26990	25RB#0	22.59	21.35	38.45
			26990	25RB#25	22.63	21.39	38.45
			26990	25RB#12	22.46	21.22	38.45
			26990	50RB#0	22.55	21.31	38.45
Band26	10MHz	16QAM	26740	1RB#49	22.95	21.71	38.45
			26740	1RB#0	22.79	21.55	38.45
			26740	1RB#24	23.03	21.79	38.45
			26740	25RB#25	21.89	20.65	38.45
			26740	25RB#12	21.95	20.71	38.45
			26740	25RB#0	21.80	20.56	38.45
			26740	50RB#0	21.91	20.67	38.45
			26915	1RB#49	22.36	21.12	38.45
			26915	1RB#0	22.74	21.50	38.45
			26915	1RB#24	22.71	21.47	38.45
			26915	25RB#25	21.75	20.51	38.45
			26915	25RB#0	21.77	20.53	38.45
			26915	25RB#12	21.75	20.51	38.45
			26915	50RB#0	21.56	20.32	38.45
			26990	1RB#24	22.77	21.53	38.45
			26990	1RB#0	22.99	21.75	38.45
			26990	1RB#49	22.32	21.08	38.45
			26990	25RB#0	21.66	20.42	38.45
			26990	25RB#12	21.53	20.29	38.45
			26990	25RB#25	21.54	20.30	38.45
			26990	50RB#0	21.53	20.29	38.45

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Cellular Band	Channel Bandwidth (MHz)	Modulation Technique	Channel Number	RB Pos/RB allocation	Measured Average Power (dBm)	ERP (dBm)	limit (dBm)
26	15MHz	QPSK	26865	1RB#0	22.94	21.70	38.45
			26865	1RB#38	23.73	22.49	38.45
			26865	1RB#74	22.94	21.70	38.45
			26865	36RB#0	22.76	21.52	38.45
			26865	36RB#18	22.61	21.37	38.45
			26865	36RB#39	22.75	21.51	38.45
			26865	75RB#0	22.58	21.34	38.45
			26915	1RB#0	23.04	21.80	38.45
			26915	1RB#38	23.35	22.11	38.45
			26915	1RB#74	23.62	22.38	38.45
			26915	36RB#0	22.60	21.36	38.45
			26915	36RB#18	22.67	21.43	38.45
			26915	36RB#39	22.59	21.35	38.45
			26915	75RB#0	22.56	21.32	38.45
			26965	1RB#0	23.06	21.82	38.45
			26965	1RB#38	23.34	22.10	38.45
			26965	1RB#74	23.06	21.82	38.45
			26965	36RB#0	22.53	21.29	38.45
			26965	36RB#18	22.55	21.31	38.45
			26965	36RB#39	22.59	21.35	38.45
		16QAM	26965	75RB#0	22.53	21.29	38.45
			26865	1RB#0	23.07	21.83	38.45
			26865	1RB#38	22.79	21.55	38.45
			26865	1RB#74	23.26	22.02	38.45
			26865	36RB#0	21.90	20.66	38.45
			26865	36RB#18	21.75	20.51	38.45
			26865	36RB#39	21.68	20.44	38.45
			26865	75RB#0	21.63	20.39	38.45
			26915	1RB#0	22.57	21.33	38.45
			26915	1RB#38	22.90	21.66	38.45
			26915	1RB#74	23.06	21.82	38.45
			26915	36RB#0	21.70	20.46	38.45
			26915	36RB#18	21.60	20.36	38.45
			26915	36RB#39	21.61	20.37	38.45
			26915	75RB#0	21.62	20.38	38.45
			26965	1RB#0	22.55	21.31	38.45
			26965	1RB#38	22.67	21.43	38.45
			26965	1RB#74	22.70	21.46	38.45
			26965	36RB#0	21.61	20.37	38.45
			26965	36RB#18	21.63	20.39	38.45
			26965	36RB#39	21.65	20.41	38.45
			26965	75RB#0	21.60	20.36	38.45

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Test Results for WCDMA Band5:

Mode	Channel Frequency (MHz)	Measured Average Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP Limit (dBm)
WCDMA	826.40	22.76	0.91	21.52	38.45
	836.40	22.35	0.91	22.35	38.45
	846.60	22.75	0.91	22.75	38.45
HSDPA Subtest1	826.40	22.92	0.91	22.92	38.45
	836.40	22.78	0.91	22.78	38.45
	846.60	22.13	0.91	22.13	38.45
HSDPA Subtest2	826.40	21.63	0.91	21.63	38.45
	836.40	21.14	0.91	21.14	38.45
	846.60	21.44	0.91	21.44	38.45
HSDPA Subtest3	826.40	21.51	0.91	21.51	38.45
	836.40	21.42	0.91	21.42	38.45
	846.60	20.70	0.91	20.70	38.45
HSDPA Subtest4	826.40	21.11	0.91	21.11	38.45
	836.40	21.15	0.91	21.15	38.45
	846.60	20.19	0.91	20.19	38.45
HSUPA Subtest1	826.40	22.14	0.91	22.14	38.45
	836.40	22.91	0.91	22.91	38.45
	846.60	22.58	0.91	22.58	38.45
HSUPA Subtest2	826.40	22.15	0.91	22.15	38.45
	836.40	21.81	0.91	21.81	38.45
	846.60	21.33	0.91	21.33	38.45
HSUPA Subtest3	826.40	21.01	0.91	21.01	38.45
	836.40	21.05	0.91	21.05	38.45
	846.60	21.15	0.91	21.15	38.45
HSUPA Subtest4	826.40	21.13	0.91	21.13	38.45
	836.40	20.18	0.91	20.18	38.45
	846.60	20.15	0.91	20.15	38.45

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Test Results for GSM850MHz:

Mode	Frequency (MHz)	Measured Average power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP Limit (dBm)
GPRS (GMSK, 1-slot)	824.20	32.18	0.91	30.94	38.45
	836.60	32.16	0.91	30.92	38.45
	848.80	31.45	0.91	30.21	38.45
GPRS (GMSK, 2-slot)	824.20	31.81	0.91	30.57	38.45
	836.60	31.19	0.91	29.95	38.45
	848.80	32.14	0.91	30.90	38.45
GPRS (GMSK, 3-slot)	824.20	29.68	0.91	28.44	38.45
	836.60	29.52	0.91	28.28	38.45
	848.80	29.76	0.91	28.52	38.45
GPRS (GMSK, 4-slot)	824.20	28.11	0.91	26.87	38.45
	836.60	28.32	0.91	27.08	38.45
	848.80	28.31	0.91	27.07	38.45
EGPRS (8PSK, 1-slot)	824.20	28.14	0.91	26.90	38.45
	836.60	28.73	0.91	27.49	38.45
	848.80	28.91	0.91	27.67	38.45
EGPRS (8PSK, 2-slot)	824.20	27.92	0.91	26.68	38.45
	836.60	27.77	0.91	26.53	38.45
	848.80	27.14	0.91	25.90	38.45
EGPRS (8PSK, 3-slot)	824.20	25.16	0.91	23.92	38.45
	836.60	25.11	0.91	23.87	38.45
	848.80	25.34	0.91	24.10	38.45
EGPRS (8PSK, 4-slot)	824.20	24.31	0.91	23.07	38.45
	836.60	23.89	0.91	22.65	38.45
	848.80	24.45	0.91	23.21	38.45

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7.3 FIELD STRENGTH OF SPURIOUS RADIATION

Result

Pass

Specification	FCC Part §2.1053, §22.917 (a) RSS-Gen, §6.13; RSS-132, §5.5
Test Method / Procedure	ANSI C63.26-2015
Measurement Bandwidth (RBW)	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector Function	Peak
Measuring Distance	3 m
Requirement	The power of any emission outside the authorized frequency range must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB
Test setup	Refer TEST METHODOLOGY

Environmental conditions:

Temperature (Norm) = + 24 °C Voltage = 110VAC through mains Relative humidity = 62 %

KDB Guidelines applied:

All the radiated emission measurements are performed in accordance with common requirement specified in 7 971168 D01 Power Meas License Digital Systems v03r01 and Pre-test site path loss correction factors are used to adjust the EUT emission data in place of two step substitution method (as defined in Annex B of ANSI C63.26-2015)

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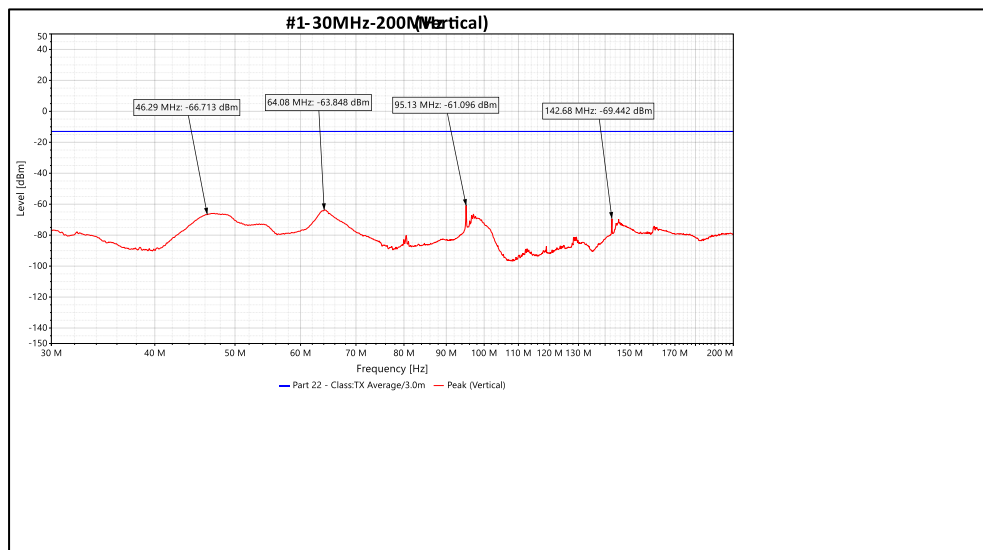
Test results:

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

Test Results for frequency range 30MHz to 200MHz

Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBm)	Limit (dBm)	Margin (dB)
Vertical	46.29	-66.71	-13.00	-53.71
	64.08	-63.84	-13.00	-50.84
	95.13	-61.09	-13.00	-48.09
	142.68	-69.44	-13.00	-56.44
Horizontal	47.55	-85.13	-13.00	-72.13
	64.44	-71.42	-13.00	-58.42
	77.46	-77.92	-13.00	-64.92
	95.10	-61.84	-13.00	-48.84

Plots for frequency range 30MHz to 200MHz:



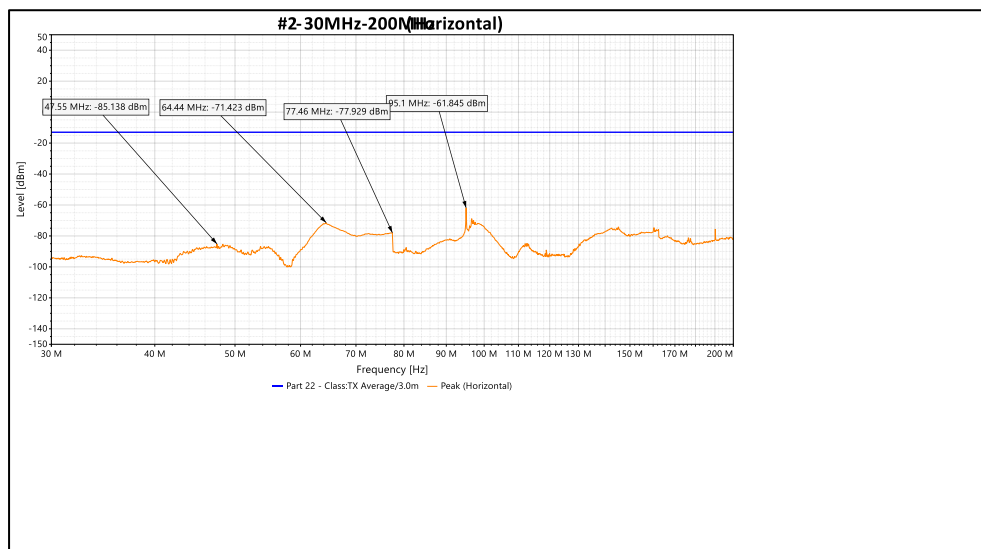
Frequency Range: 30MHz-200MHz

Polarization: Vertical

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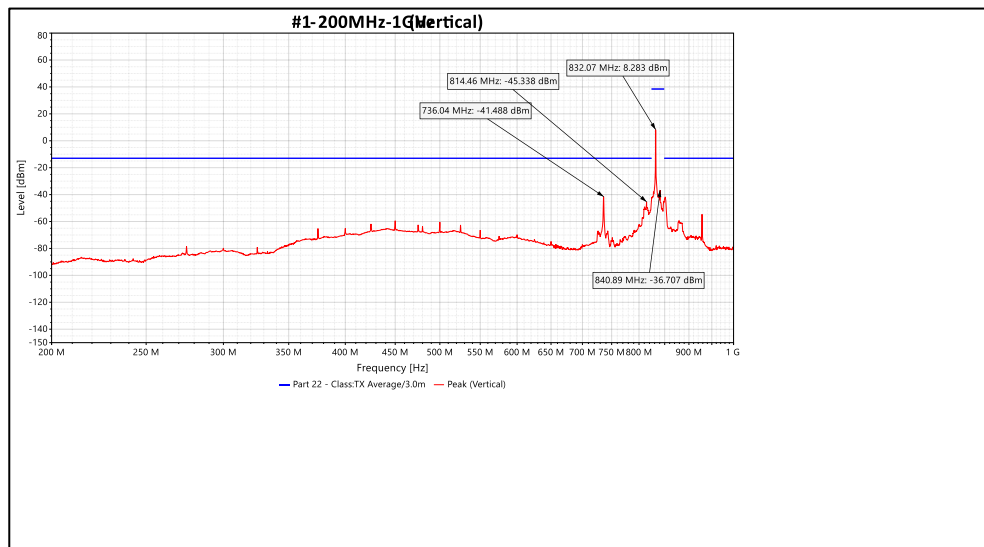
Frequency Range: 30MHz-200MHz

Polarization: Horizontal

Frequency range 200MHz to 1GHz

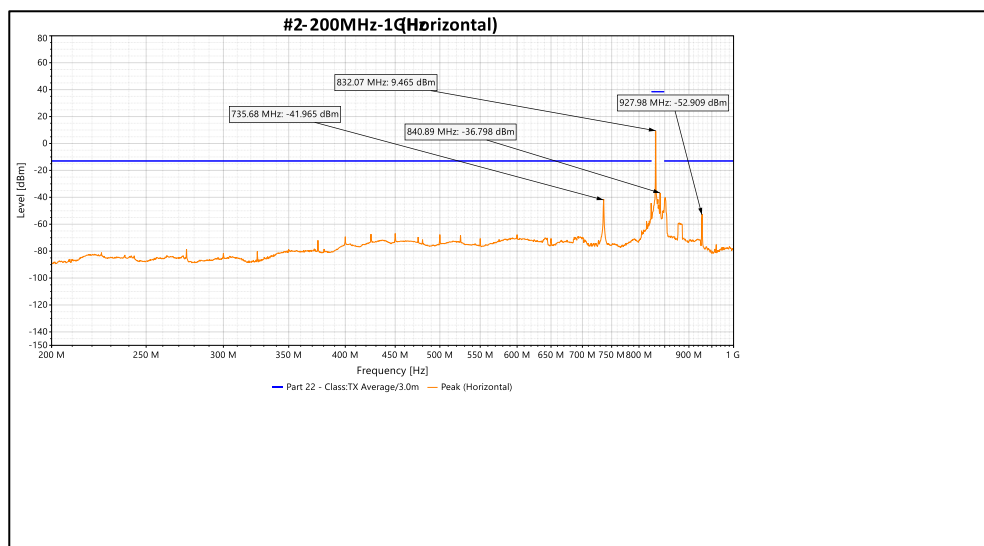
Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBm)	Limit (dBm)	Margin (dB)
Vertical	736.04	-41.48	-13.00	-28.48
	814.46	-45.33	-13.00	-32.33
	832.07*	8.28	-	-
	840.89	-36.70	-13.00	-23.70
Horizontal	735.68	-41.96	-13.00	-28.96
	832.07*	9.46	-	-
	840.89	-36.79	-13.00	-23.79
	927.98	-52.90	-13.00	-39.90

Test Plots for Frequency range of 200MHz to 1GHz:



Frequency Range: 200MHz-1GHz

Polarization: Vertical



Frequency Range: 200MHz-1GHz

Polarization: Horizontal

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Frequency range above 1GHz:

Band	Modulation	CB	No.fo RB	RB Pos	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Band5	16QAM	1.4	3	3	824.7	1649.40	Vertical	-34.73	-13.00	-21.73
						2474.10		-29.26	-13.00	-16.26
						3298.80		-49.69	-13.00	-36.69
						1649.40	Horizontal	-34.94	-13.00	-21.94
						2474.10		-30.21	-13.00	-17.21
						3298.80		-51.97	-13.00	-38.97
			3	0	836.5	1673.00	Vertical	-33.54	-13.00	-20.54
						2509.50		-27.68	-13.00	-14.68
						3346.00		-50.40	-13.00	-37.40
						1673.00	Horizontal	-34.03	-13.00	-21.03
						2509.50		-30.06	-13.00	-17.06
						3346.00		-54.83	-13.00	-41.83
			3	3	848.3	1696.60	Vertical	-32.86	-13.00	-19.86
						2544.90		-30.47	-13.00	-17.47
						3393.20		-47.58	-13.00	-34.58
						1696.60	Horizontal	-31.31	-13.00	-18.31
						2544.90		-31.40	-13.00	-18.40
						3393.20		-51.01	-13.00	-38.01
	QPSK	3	15	0	825.5	1651.00	Vertical	-40.75	-13.00	-27.75
						2476.50		-38.90	-13.00	-25.90
						3302.00		-54.23	-13.00	-41.23
						1651.00	Horizontal	-40.86	-13.00	-27.86
						2476.50		-38.43	-13.00	-25.43
						3302.00		-53.98	-13.00	-40.98
			15	0	836.5	1673.00	Vertical	-40.49	-13.00	-27.49
						2509.50		-38.01	-13.00	-25.01
						3346.00		-54.30	-13.00	-41.30
						1673.00	Horizontal	-41.32	-13.00	-28.32
						2509.50		-40.17	-13.00	-27.17
						3346.00		-54.45	-13.00	-41.45
			15	0	847.5	1695.00	Vertical	-38.11	-13.00	-25.11
						2542.50		-35.56	-13.00	-22.56
						3390.00		-53.99	-13.00	-40.99
						1695.00	Horizontal	-37.14	-13.00	-24.14
						2542.50		-38.99	-13.00	-25.99
						3390.00		-53.69	-13.00	-40.69

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Band	Modulation	CB	No.fo RB	RB Pos	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Band5	16QAM	5	12	0	826.5	1653.00	Vertical	-38.21	-13.00	-25.21
						2479.50		-32.01	-13.00	-19.01
						3306.00		-54.56	-13.00	-41.56
						1653.00	Horizontal	-37.88	-13.00	-24.88
						2479.50		-34.50	-13.00	-21.50
						3306.00		-54.48	-13.00	-41.48
		5	25	0	836.5	1673.00	Vertical	-40.59	-13.00	-27.59
						2509.50		-36.33	-13.00	-23.33
						3346.00		-54.21	-13.00	-41.21
						1673.00	Horizontal	-40.64	-13.00	-27.64
						2509.50		-39.48	-13.00	-26.48
						3346.00		-54.37	-13.00	-41.37
		5	25	0	846.5	1693.00	Vertical	-36.99	-13.00	-23.99
						2539.50		-34.84	-13.00	-21.84
						3386.00		-52.55	-13.00	-39.55
						1693.00	Horizontal	-35.53	-13.00	-22.53
						2539.50		-37.78	-13.00	-24.78
						3386.00		-54.29	-13.00	-41.29
	16QAM	10	1	0	829	1658.00	Vertical	-35.27	-13.00	-22.27
						2487.00		-34.27	-13.00	-21.27
						3316.00		-49.61	-13.00	-36.61
						1658.00	Horizontal	-36.14	-13.00	-23.14
						2487.00		-32.37	-13.00	-19.37
						3316.00		-53.07	-13.00	-40.07
		10	1	49	836.5	1673.00	Vertical	-34.23	-13.00	-21.23
						2509.50		-29.55	-13.00	-16.55
						3346.00		-50.32	-13.00	-37.32
						1673.00	Horizontal	-34.27	-13.00	-21.27
						2509.50		-32.59	-13.00	-19.59
						3346.00		-54.56	-13.00	-41.56
		10	25	0	844	1688.00	Vertical	-38.68	-13.00	-25.68
						2532.00		-35.74	-13.00	-22.74
						3376.00		-54.43	-13.00	-41.43
						1688.00	Horizontal	-37.64	-13.00	-24.64
						2532.00		-37.55	-13.00	-24.55
						3376.00		-53.74	-13.00	-40.74

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Band 26: 824MHz to 849MHz

Modulation	Cell BW	No. of RB	RB Pos	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
QPSK	1.4	1	0	824.70	1649.40	Vertical	-61.23	-13.00	-48.23
					2474.10		-58.21	-13.00	-45.21
					3298.80		-57.45	-13.00	-44.45
					1649.40	Horizontal	-62.46	-13.00	-49.46
					2474.10		-58.33	-13.00	-45.33
					3298.80		-57.99	-13.00	-44.99
		1	2	836.50	1673.00	Vertical	-60.40	-13.00	-47.40
					2509.50		-57.99	-13.00	-44.99
					3346.00		-55.63	-13.00	-42.63
					1673.00	Horizontal	-56.27	-13.00	-43.27
					2509.50		-57.71	-13.00	-44.71
					3346.00		-56.76	-13.00	-43.76
	3	3	1	848.30	1696.60	Vertical	-60.58	-13.00	-47.58
					2544.90		-57.56	-13.00	-44.56
					3393.20		-56.51	-13.00	-43.51
					1696.60	Horizontal	-59.95	-13.00	-46.95
					2544.90		-57.77	-13.00	-44.77
					3393.20		-56.17	-13.00	-43.17
		8	0	825.50	1651.00	Vertical	-62.22	-13.00	-49.22
					2476.50		-58.99	-13.00	-45.99
					3302.00		-56.21	-13.00	-43.21
					1651.00	Horizontal	-62.31	-13.00	-49.31
					2476.50		-59.44	-13.00	-46.44
					3302.00		-57.94	-13.00	-44.94
	3	1	8	836.50	1673.00	Vertical	-60.40	-13.00	-47.40
					2509.50		-57.99	-13.00	-44.99
					3346.00		-55.63	-13.00	-42.63
					1673.00	Horizontal	-56.27	-13.00	-43.27
					2509.50		-57.71	-13.00	-44.71
					3346.00		-56.76	-13.00	-43.76
		8	0	847.50	1695.00	Vertical	-61.25	-13.00	-48.25
					2542.50		-58.03	-13.00	-45.03
					3390.00		-56.46	-13.00	-43.46
					1695.00	Horizontal	-60.50	-13.00	-47.50
					2542.50		-58.27	-13.00	-45.27
					3390.00		-56.09	-13.00	-43.09

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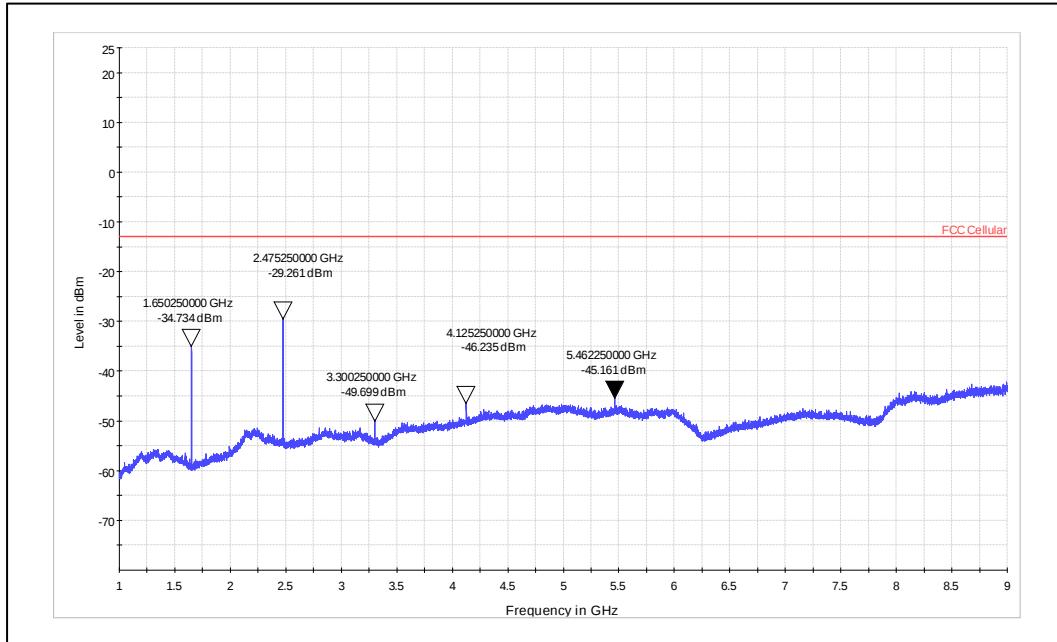
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Modulation	Cell BW	No. of RB	RB Pos	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
QPSK	5	25	0	826.50	1653.00	Vertical	-61.55	-13.00	-48.55
					2479.50		-58.83	-13.00	-45.83
					3306.00		-57.32	-13.00	-44.32
					1653.00	Horizontal	-61.12	-13.00	-48.12
					2479.50		-58.45	-13.00	-45.45
					3306.00		-57.32	-13.00	-44.32
		25	0	836.50	1673.00	Vertical	-60.40	-13.00	-47.40
					2509.50		-57.99	-13.00	-44.99
					3346.00		-55.63	-13.00	-42.63
					1673.00	Horizontal	-56.27	-13.00	-43.27
					2509.50		-57.71	-13.00	-44.71
					3346.00		-56.76	-13.00	-43.76
		25	0	846.50	1693.00	Vertical	-62.15	-13.00	-49.15
					2539.50		-57.46	-13.00	-44.46
					3386.00		-56.10	-13.00	-43.10
					1693.00	Horizontal	-57.72	-13.00	-44.72
					2539.50		-58.00	-13.00	-45.00
					3386.00		-55.66	-13.00	-42.66
	10	25	25	829.00	1658.00	Vertical	-61.88	-13.00	-48.88
					2487.00		-58.92	-13.00	-45.92
					3316.00		-57.11	-13.00	-44.11
					1658.00	Horizontal	-61.43	-13.00	-48.43
					2487.00		-58.99	-13.00	-45.99
					3316.00		-57.21	-13.00	-44.21
		25	25	831.50	1663.00	Vertical	-60.40	-13.00	-47.40
					2494.50		-57.99	-13.00	-44.99
					3326.00		-55.63	-13.00	-42.63
					1663.00	Horizontal	-56.27	-13.00	-43.27
					2494.50		-57.71	-13.00	-44.71
					3326.00		-56.76	-13.00	-43.76
	15	25	25	836.50	1673.00	Vertical	-60.40	-13.00	-47.40
					2509.50		-57.99	-13.00	-44.99
					3346.00		-55.63	-13.00	-42.63
					1673.00	Horizontal	-56.27	-13.00	-43.27
					2509.50		-57.71	-13.00	-44.71
					3346.00		-56.76	-13.00	-43.76
		25	0	841.50	1683.00	Vertical	-61.23	-13.00	-48.23
					2524.50		-58.99	-13.00	-45.99
					3366.00		-57.63	-13.00	-44.63
					1683.00	Horizontal	-61.34	-13.00	-48.34
					2524.50		-59.43	-13.00	-46.43
					3366.00		-58.32	-13.00	-45.32

LTE Test Plots:

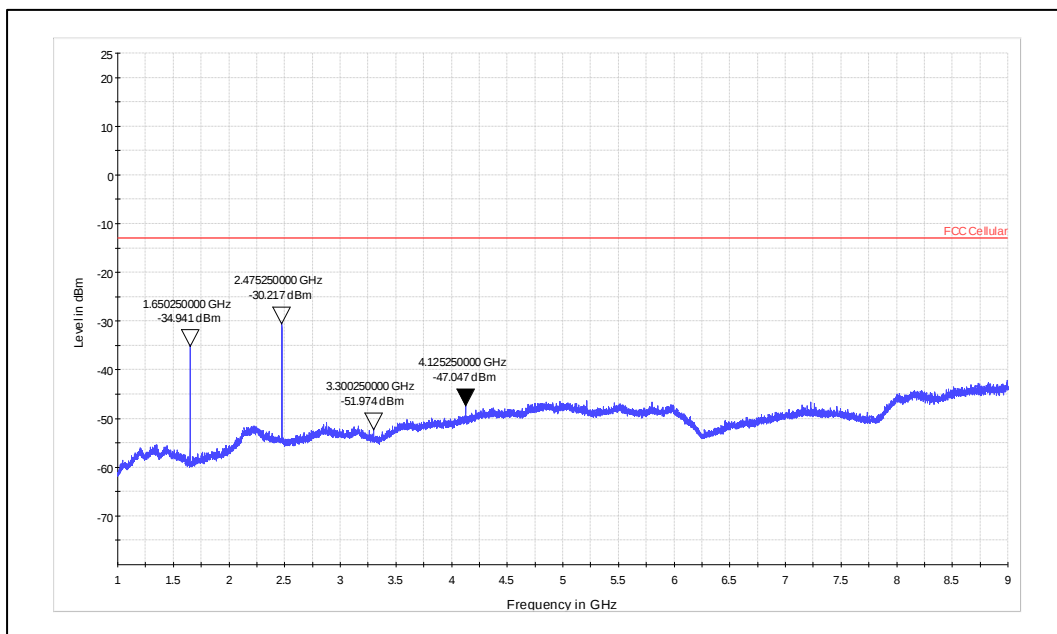
Band 5:

Channel Frequency: 824.7MHz; Modulation: 16QAM; 3RB#3



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

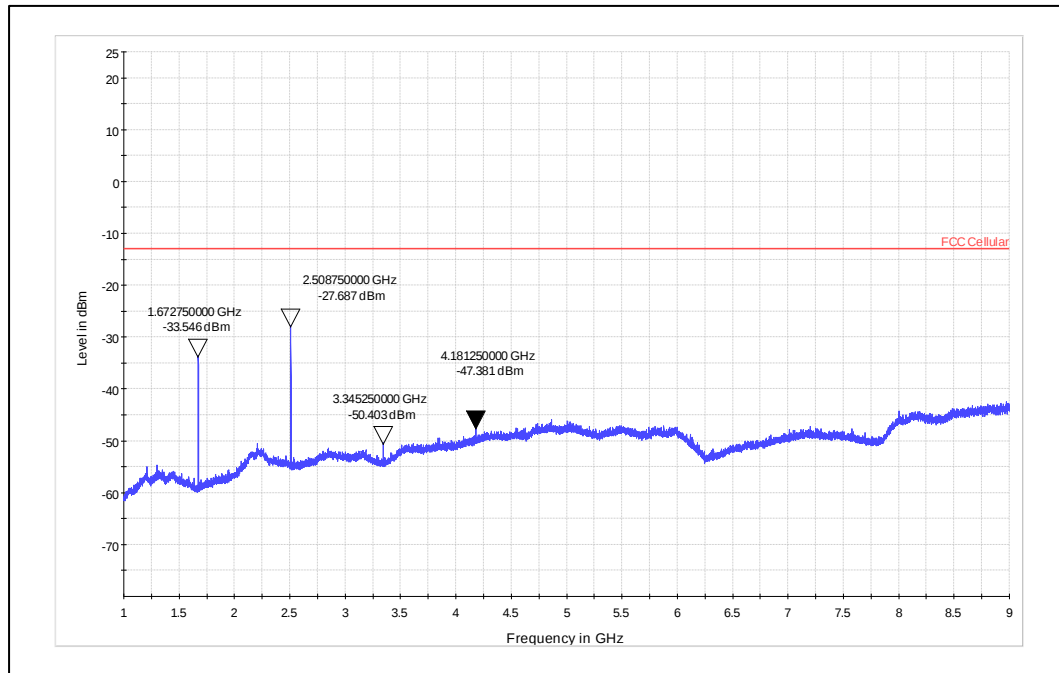
Antenna Polarization: Horizontal

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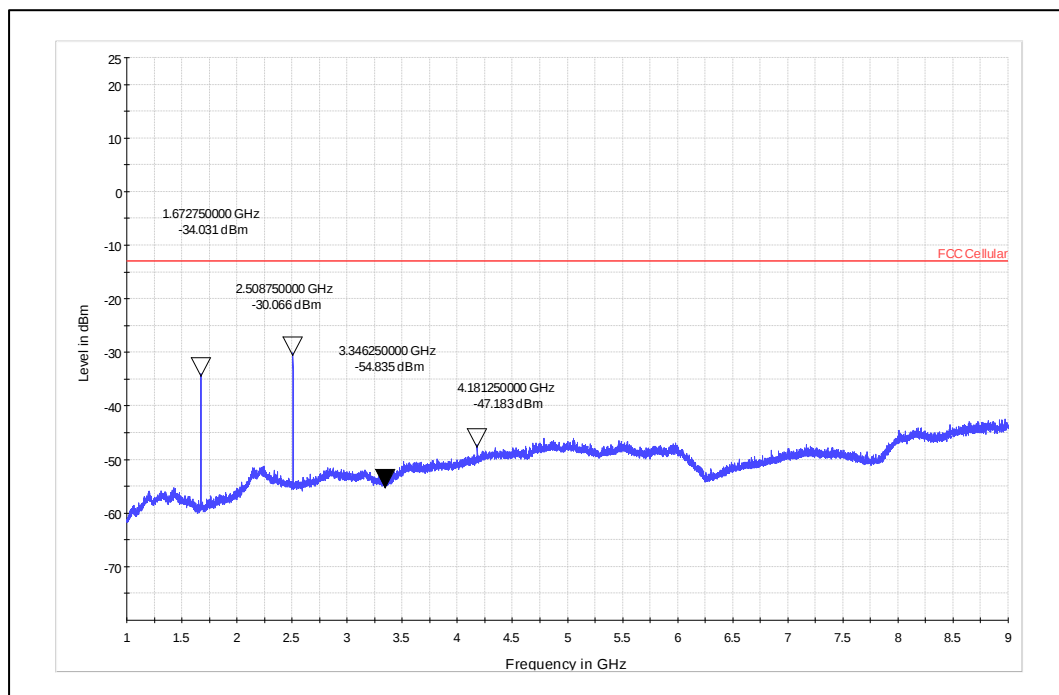
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Channel Frequency: 836.5MHz; Modulation: 16QAM; 3RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

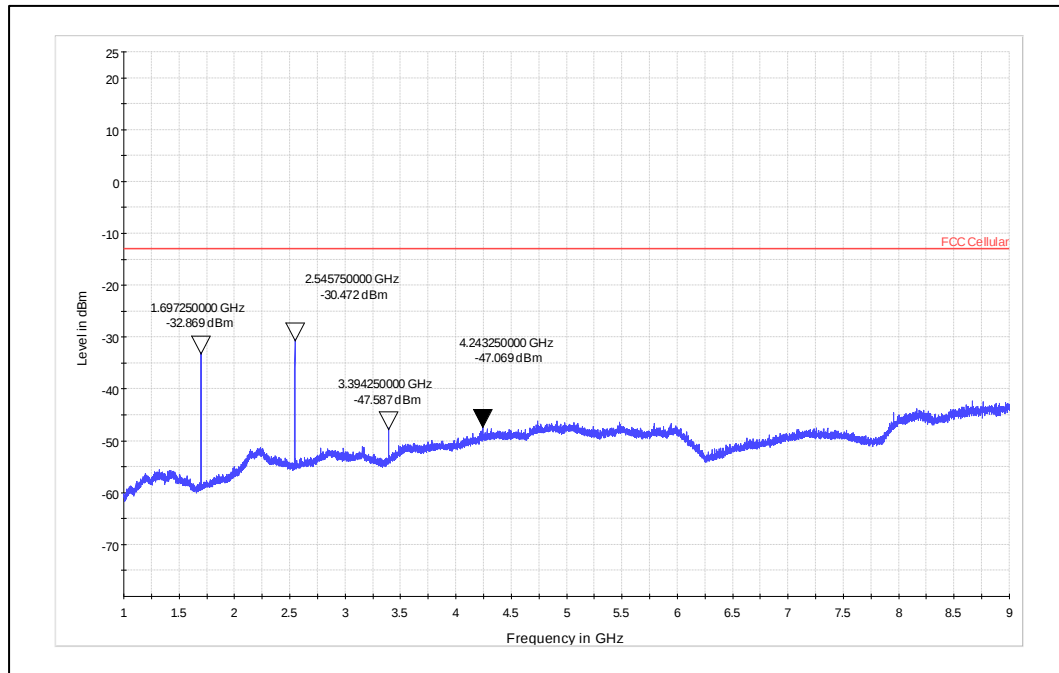
Antenna Polarization: Horizontal

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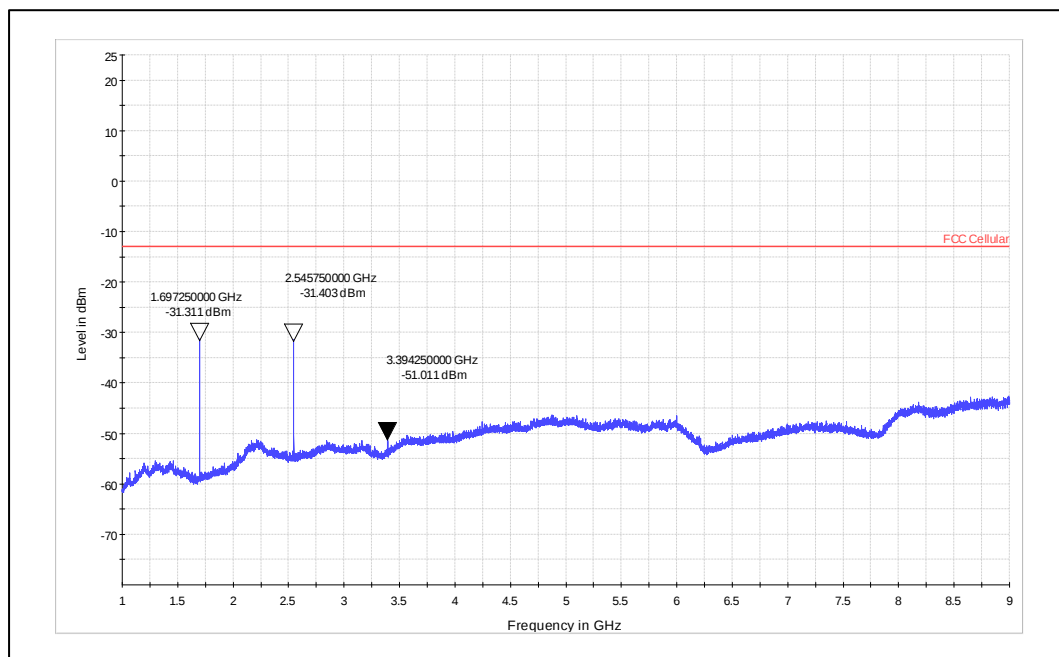
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Channel Frequency: 848.3MHz; Modulation: 16QAM; 3RB#3



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

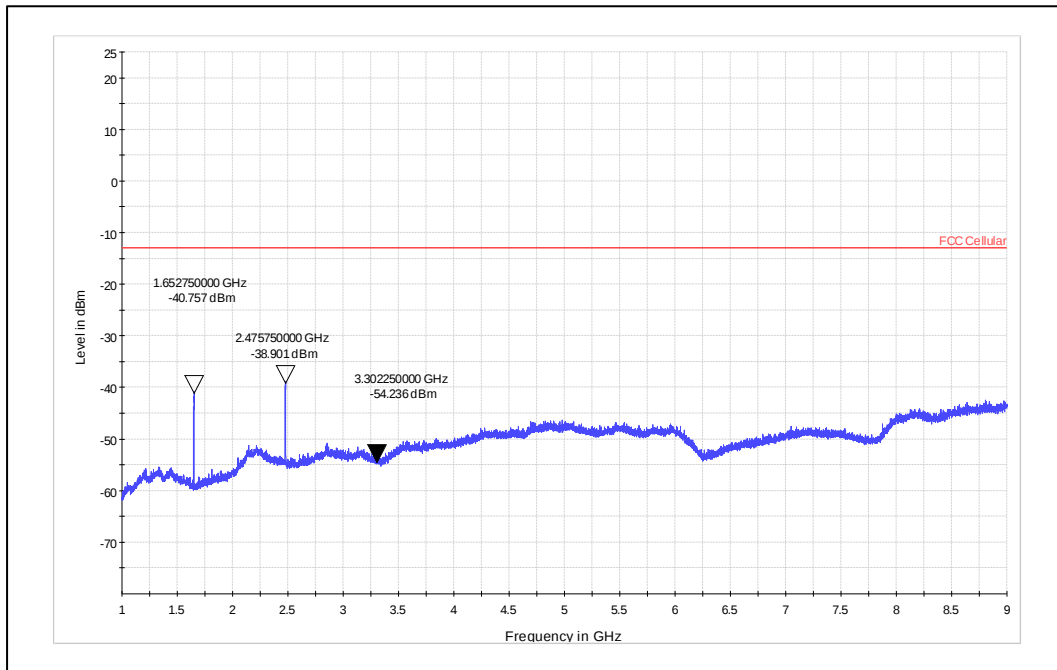
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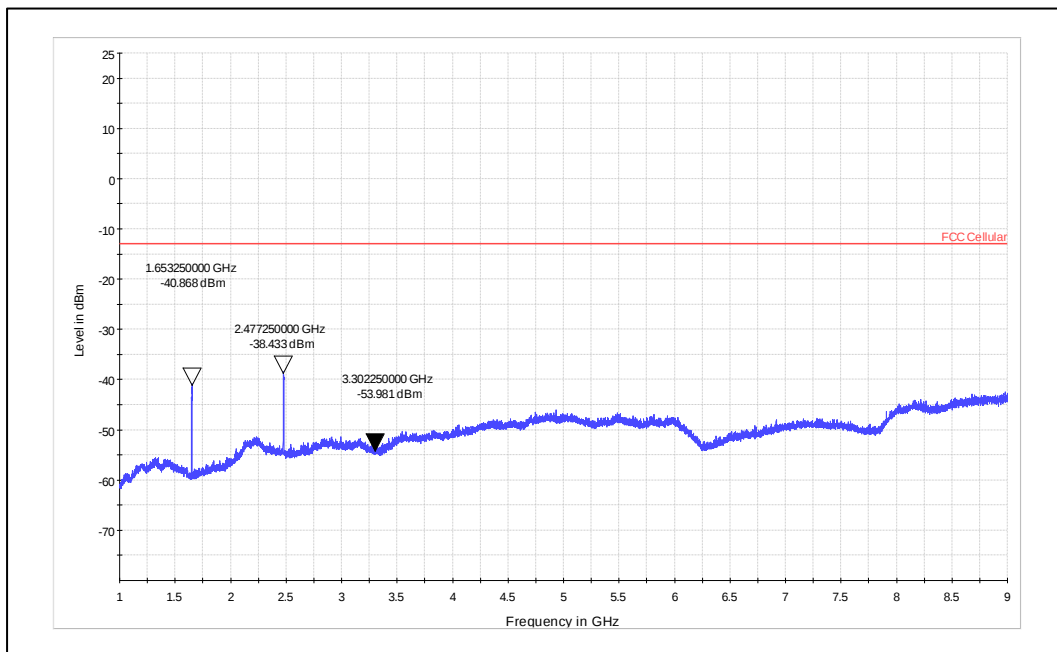
Cell Bandwidth: 3MHz

Channel Frequency: 825.5MHz; Modulation: QPSK; 15RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

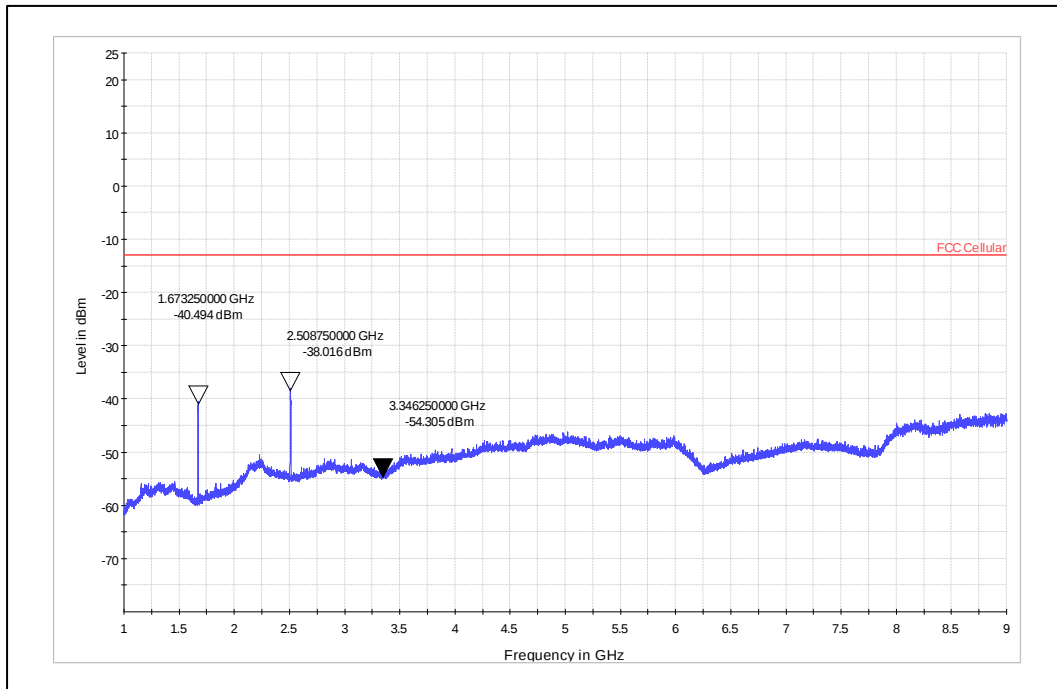
Antenna Polarization: Horizontal

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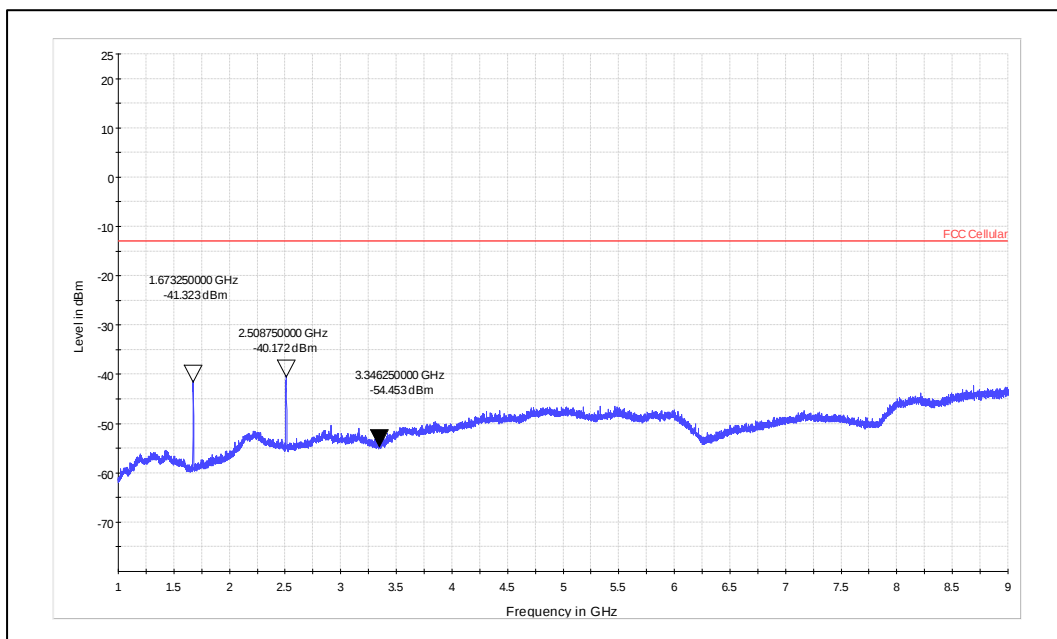
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Channel Frequency: 836.5MHz; Modulation: QPSK; 15RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

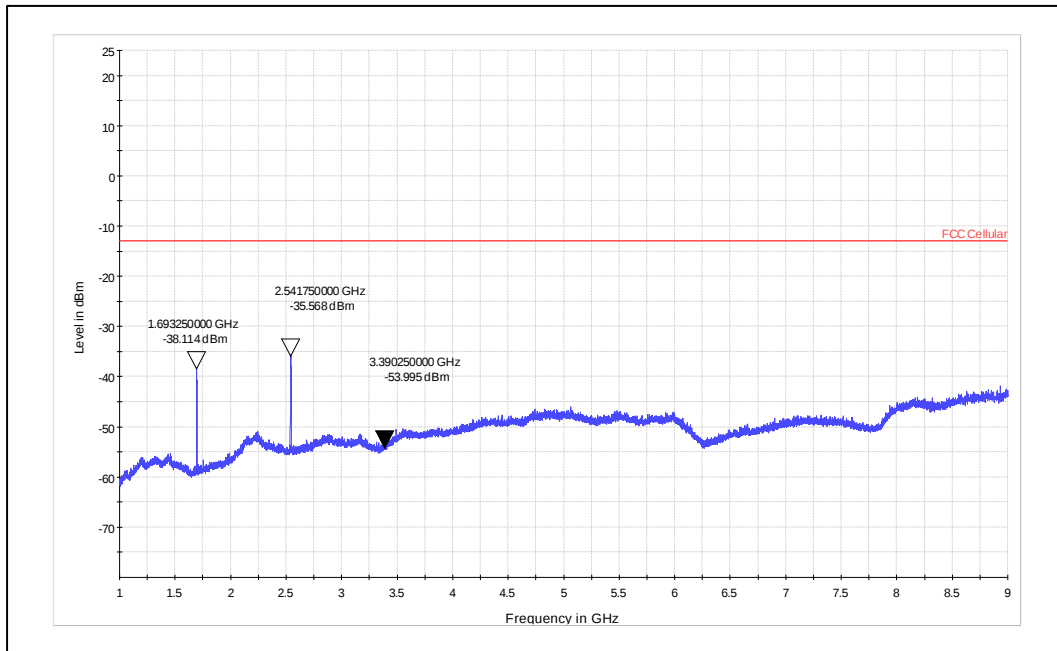
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
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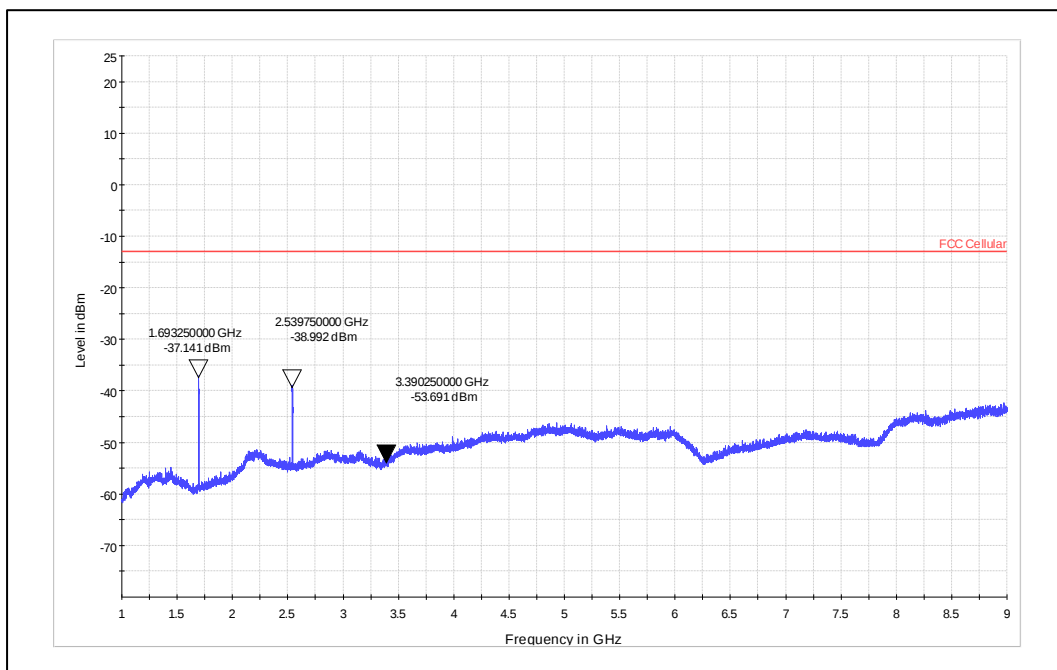
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Channel Frequency: 847.5MHz; Modulation: QPSK; 15RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

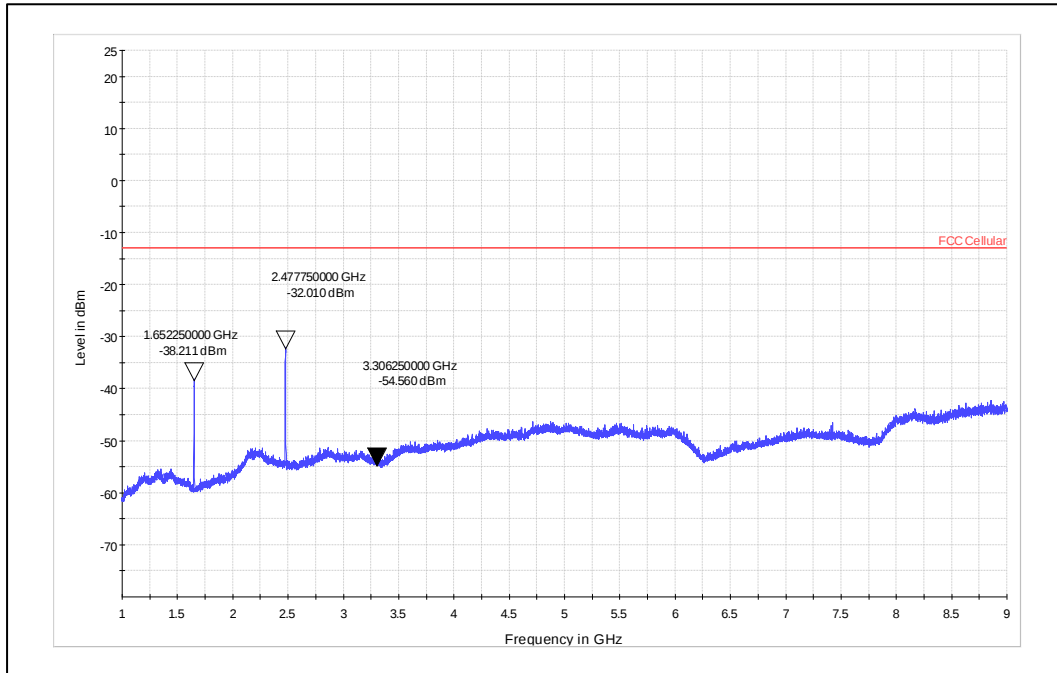
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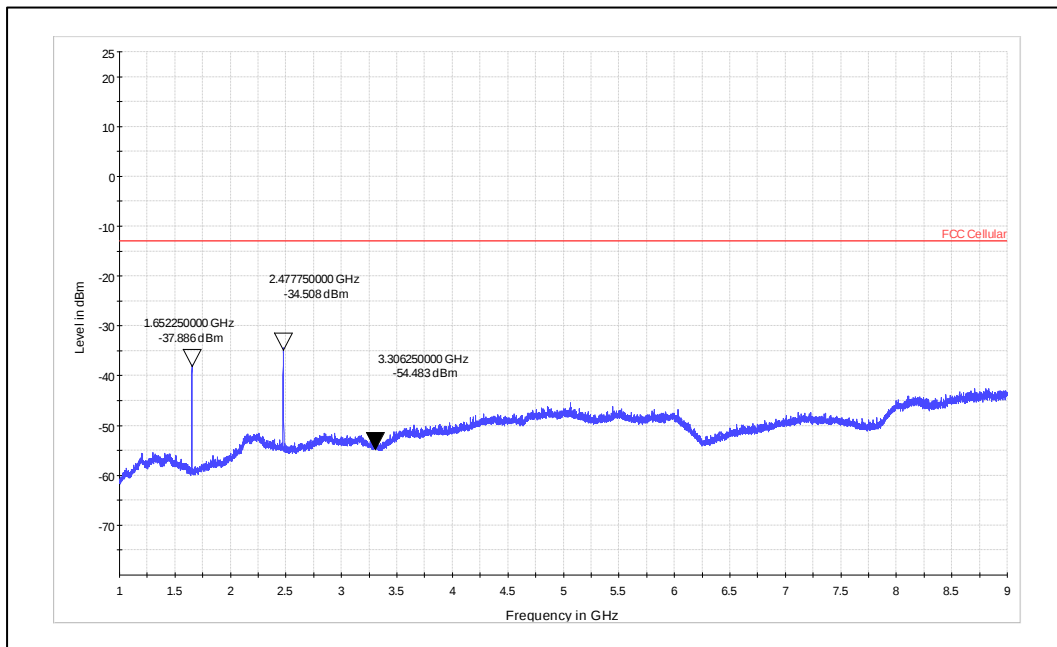
Cell Bandwidth: 5MHz

Channel Frequency: 826.5MHz; Modulation: 16QAM; 12RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

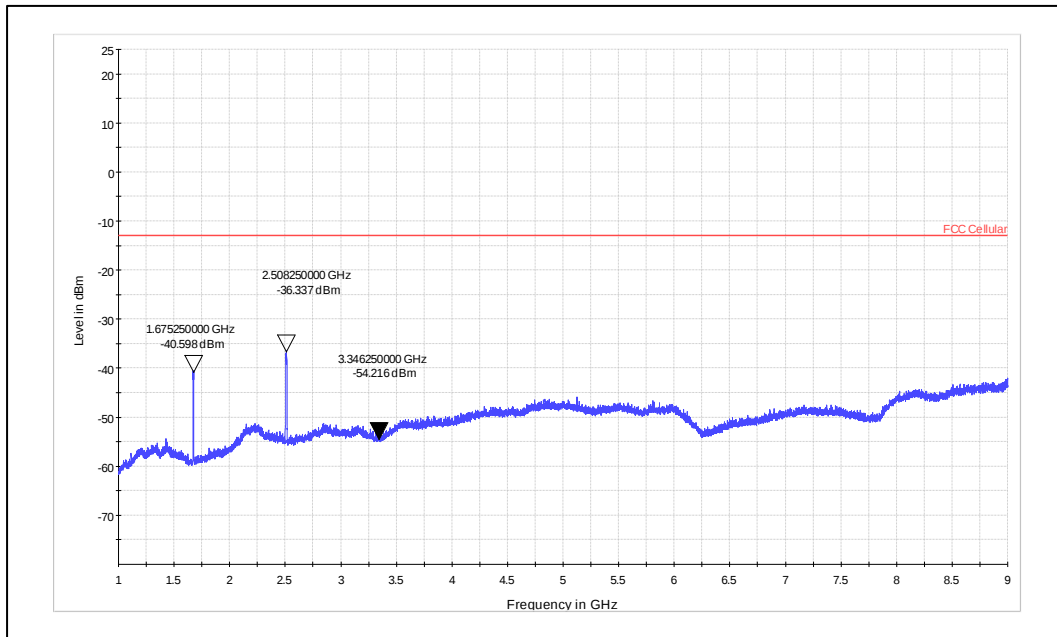
Antenna Polarization: Horizontal

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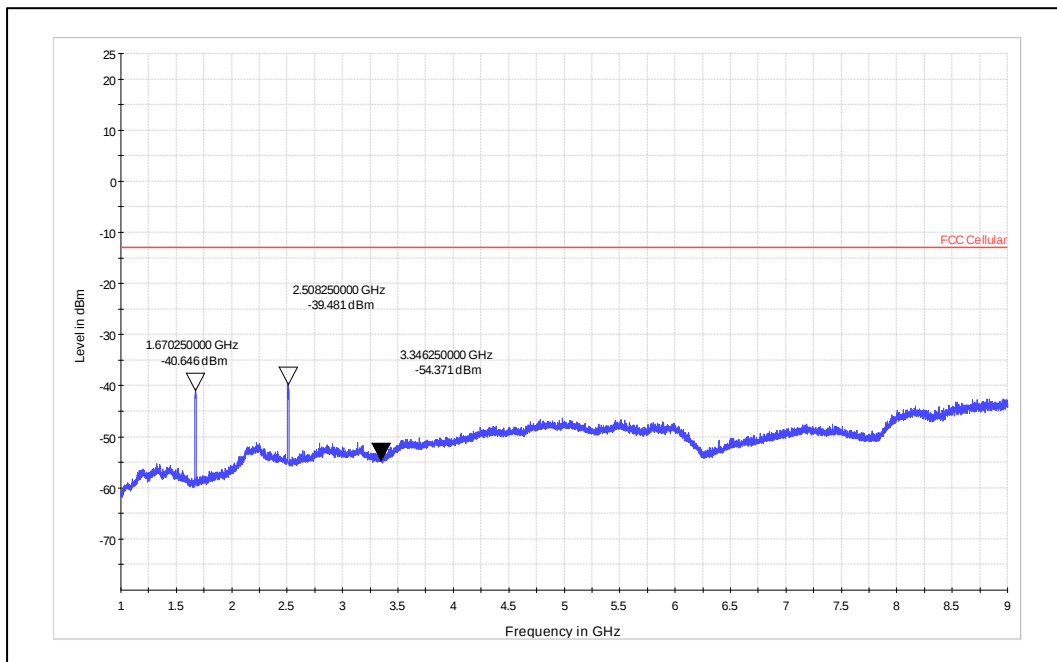
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Channel Frequency: 836.5MHz; Modulation: 16QAM; 25RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

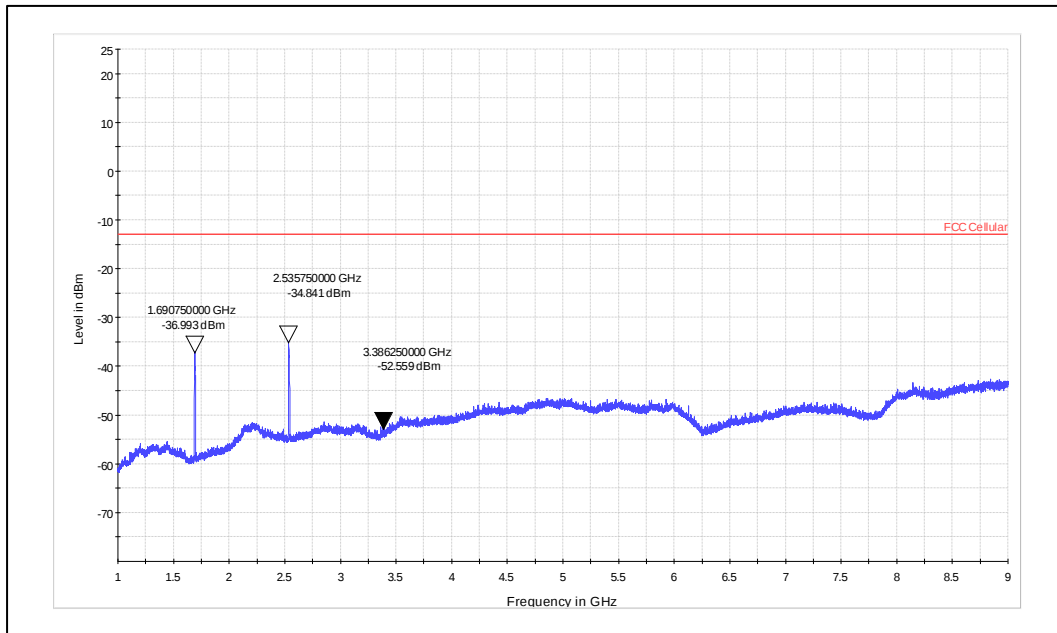
Antenna Polarization: Horizontal

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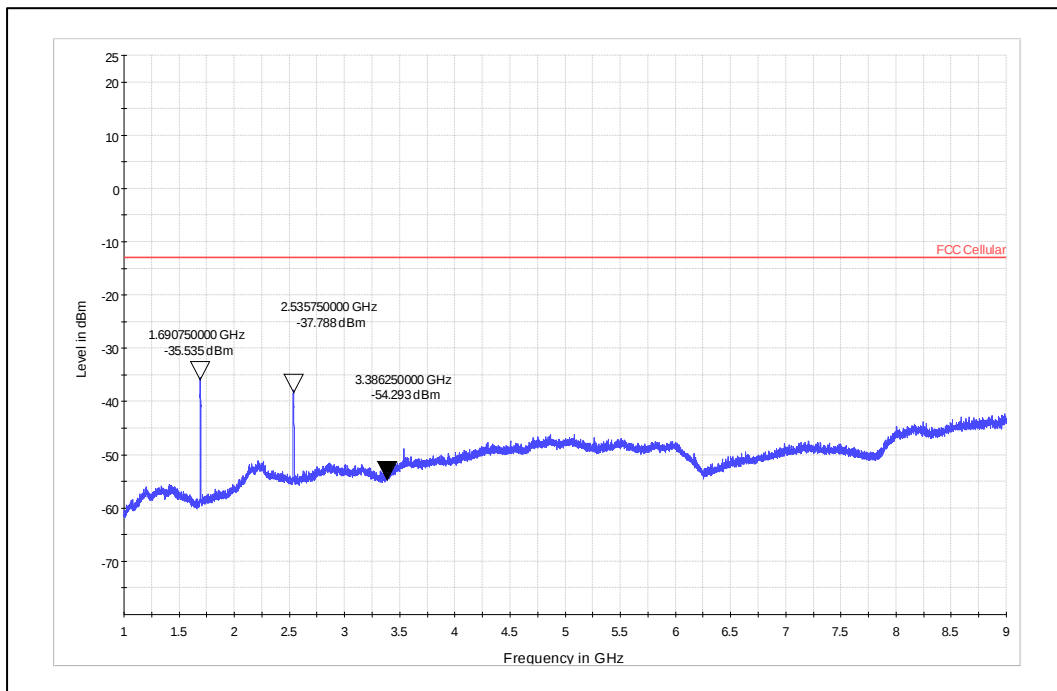
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Channel Frequency: 846.5MHz; Modulation: 16QAM; 25RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

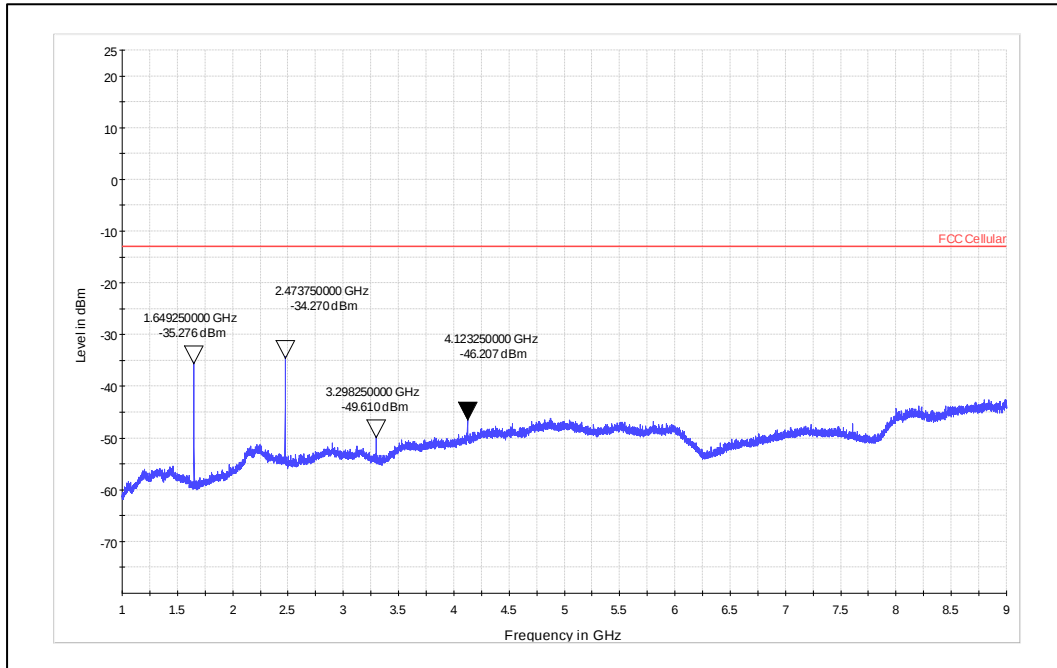
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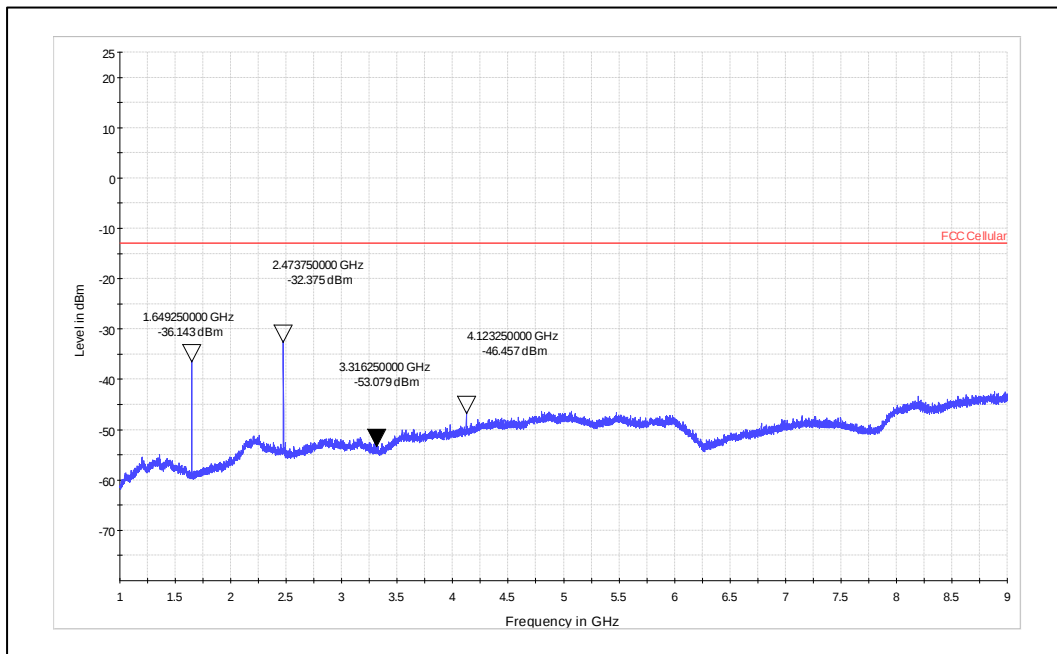
Cell Bandwidth: 10MHz

Channel Frequency: 829MHz; Modulation: 16QAM; 1RB#0



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

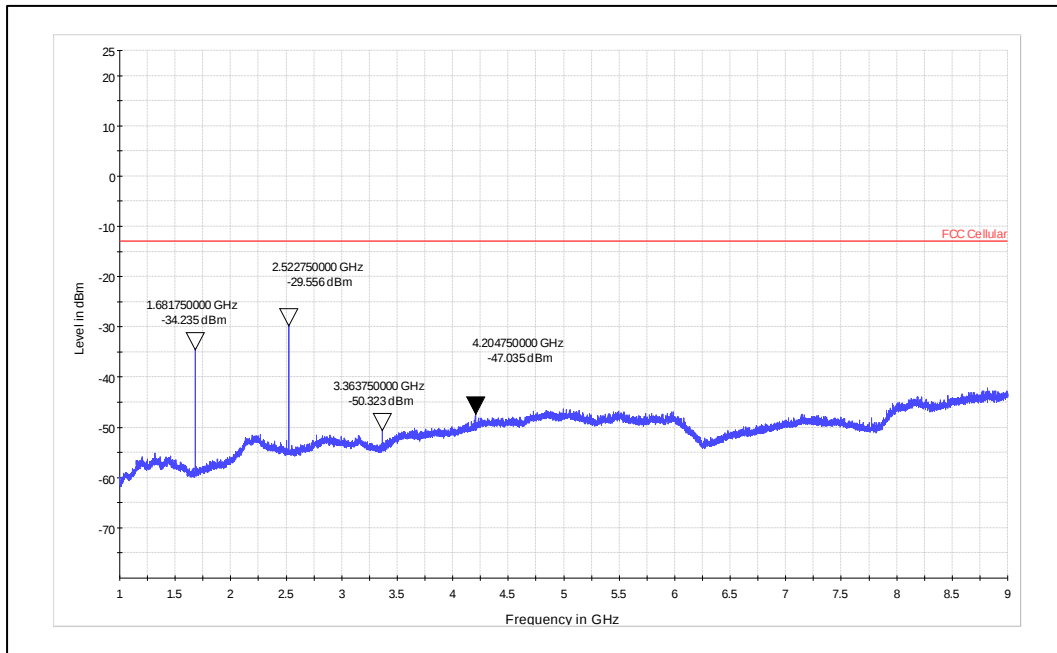
Antenna Polarization: Horizontal

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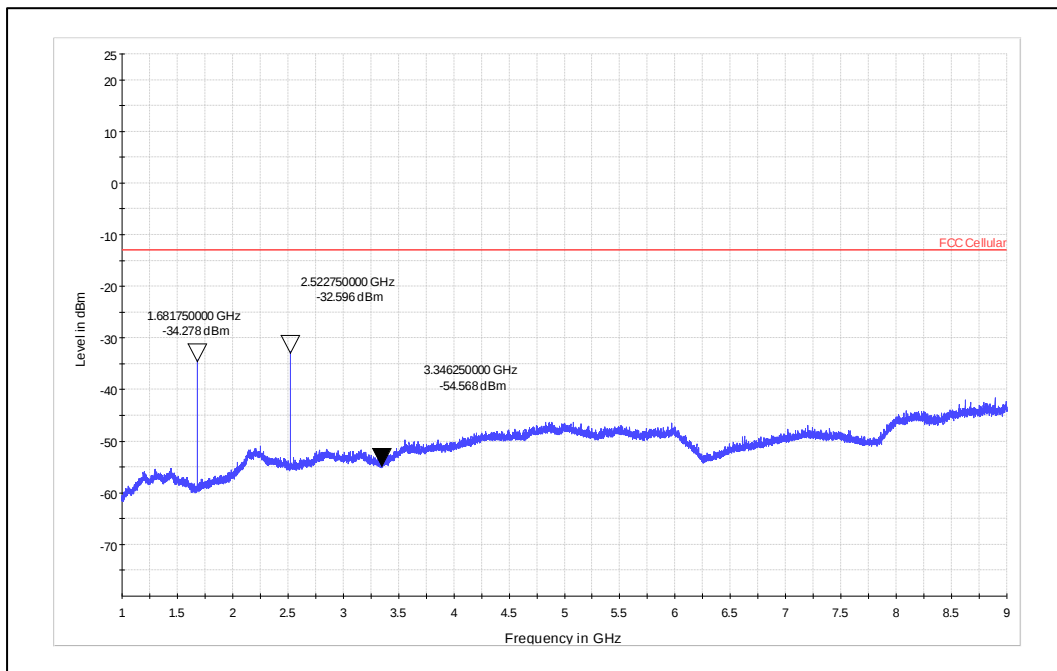
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Channel Frequency: 836.5MHz; Modulation: 16QAM; 1RB#49



Frequency Range: 1GHz – 18GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 18GHz

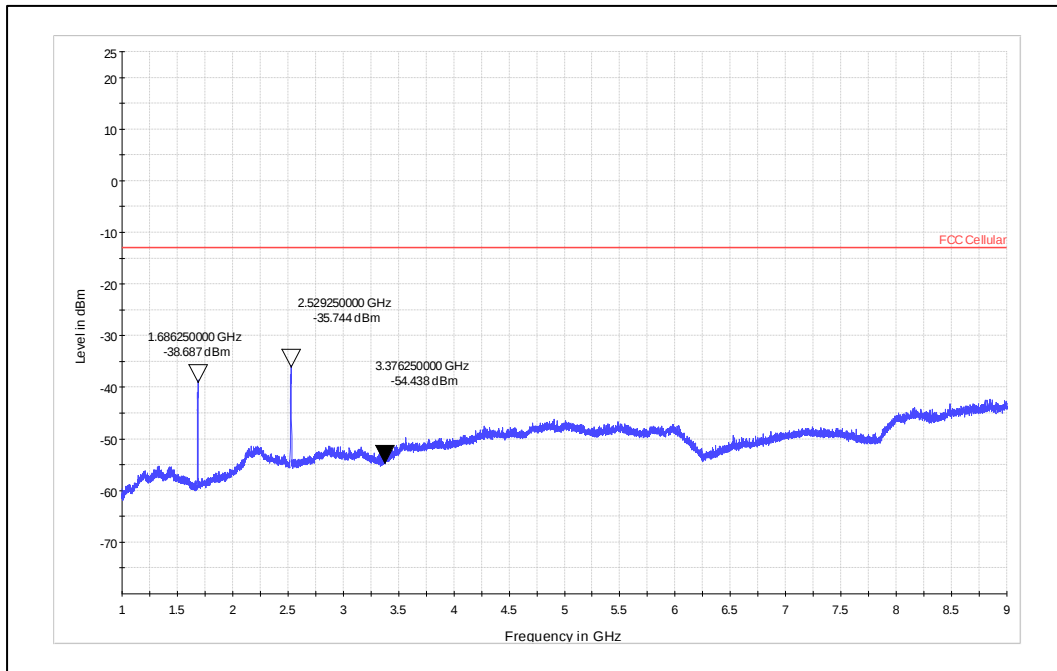
Antenna Polarization: Horizontal

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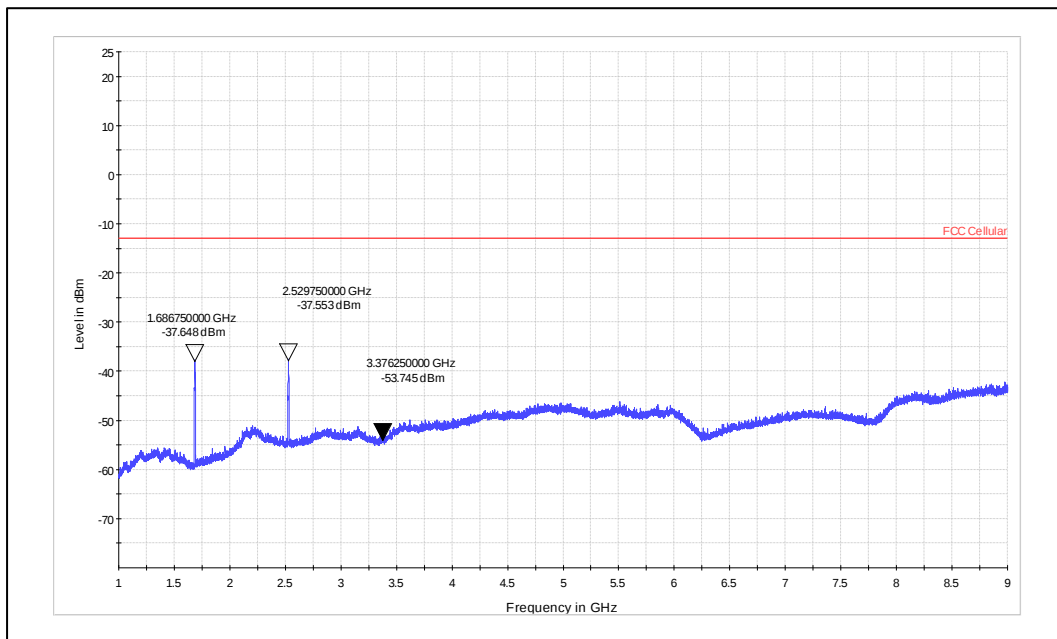
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Channel Frequency: 844MHz; Modulation: 16QAM; 25RB#0



Frequency Range: 1GHz – 18GHz

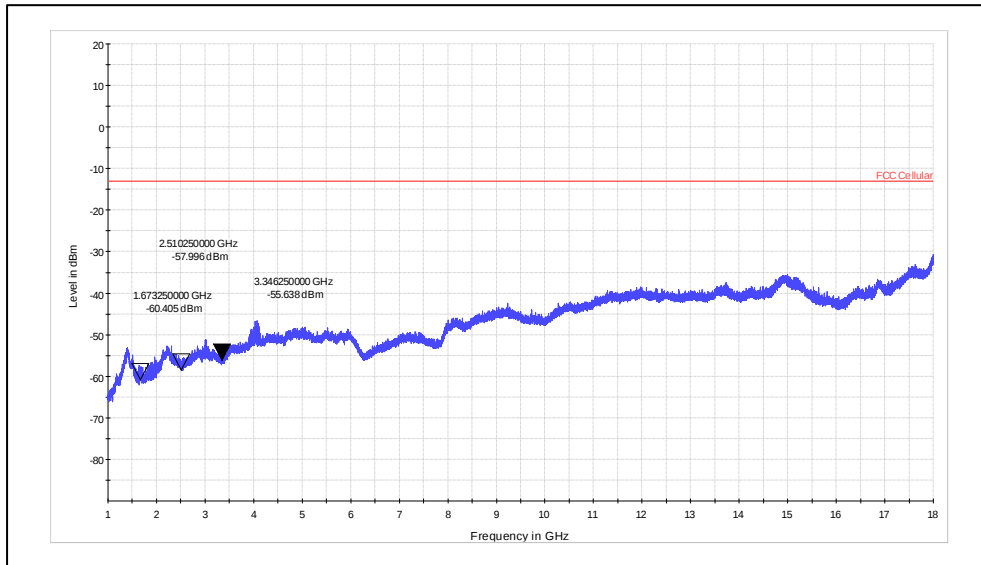
Antenna Polarization: Vertical



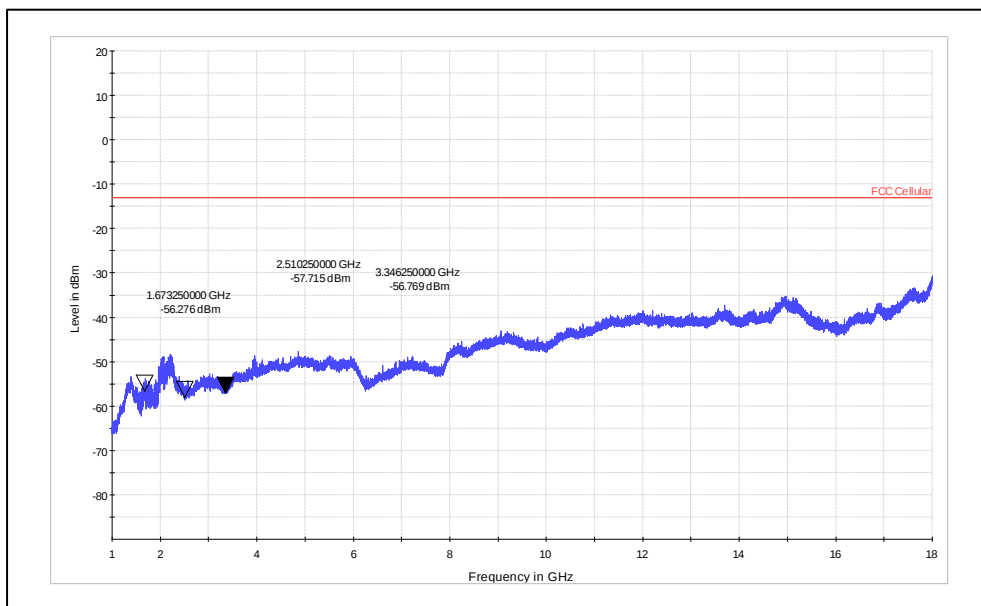
Frequency Range: 1GHz – 18GHz

Antenna Polarization: Horizontal

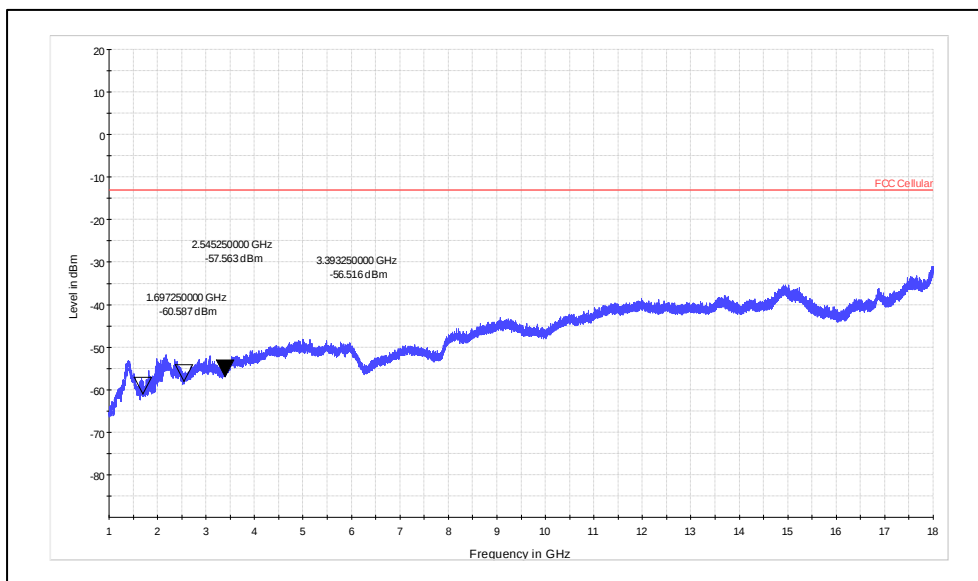
Band 26_Channel 836.50MHz-QPSK-CB-1.4MHz-Vertical Polarization



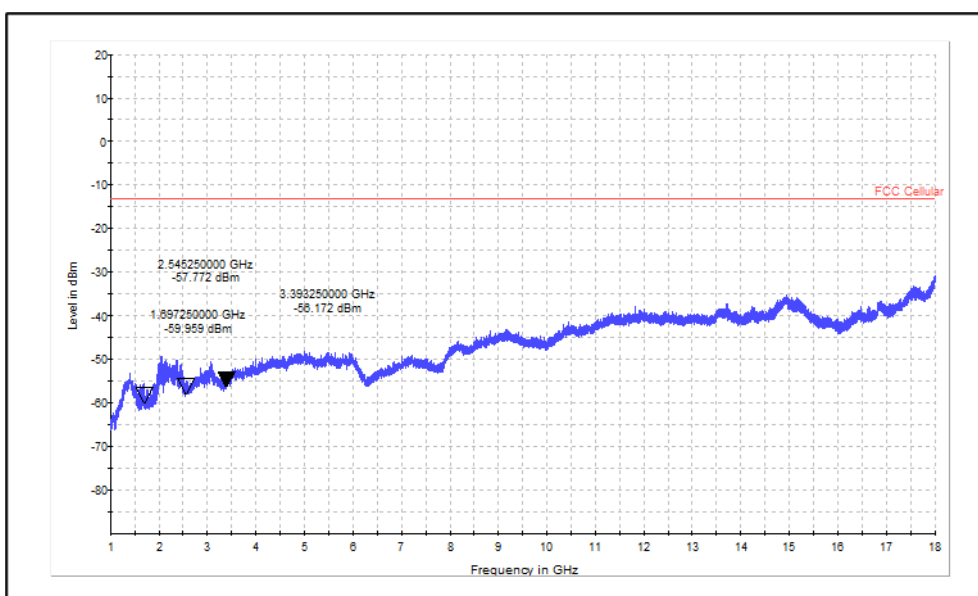
Band 26_Channel 836.50MHz-QPSK-CB-1.4MHz-Horizontal Polarization



Band 26_Channel 848.30MHz-QPSK-CB-1.4MHz-Vertical Polarization



Band 26_Channel 848.30MHz-QPSK-CB-1.4MHz-Horizontal Polarization



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Test Results for WCDMA:

Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5	826.40	1652.80	Vertical	-59.61	-13.00	-46.61
		2479.20		-55.95	-13.00	-42.95
		3305.60		-55.87	-13.00	-42.87
		1652.80	Horizontal	-59.41	-13.00	-46.41
		2479.20		-55.83	-13.00	-42.83
		3305.60		-55.31	-13.00	-42.31
	836.40	1672.80	Vertical	-56.37	-13.00	-43.37
		2509.20		-56.37	-13.00	-43.37
		3345.60		-56.00	-13.00	-43.00
		1672.80	Horizontal	-59.51	-13.00	-46.51
		2509.20		-56.29	-13.00	-43.29
		3345.60		-55.42	-13.00	-42.42
	846.60	1693.20	Vertical	-57.97	-13.00	-44.97
		2539.80		-56.76	-13.00	-43.76
		3386.40		-56.16	-13.00	-43.16
		1693.20	Horizontal	-60.29	-13.00	-47.29
		2539.80		-56.54	-13.00	-43.54
		3386.40		-54.94	-13.00	-41.94

Prüfbericht - Nr.:
Test Report No.:

IN25CSFD 001

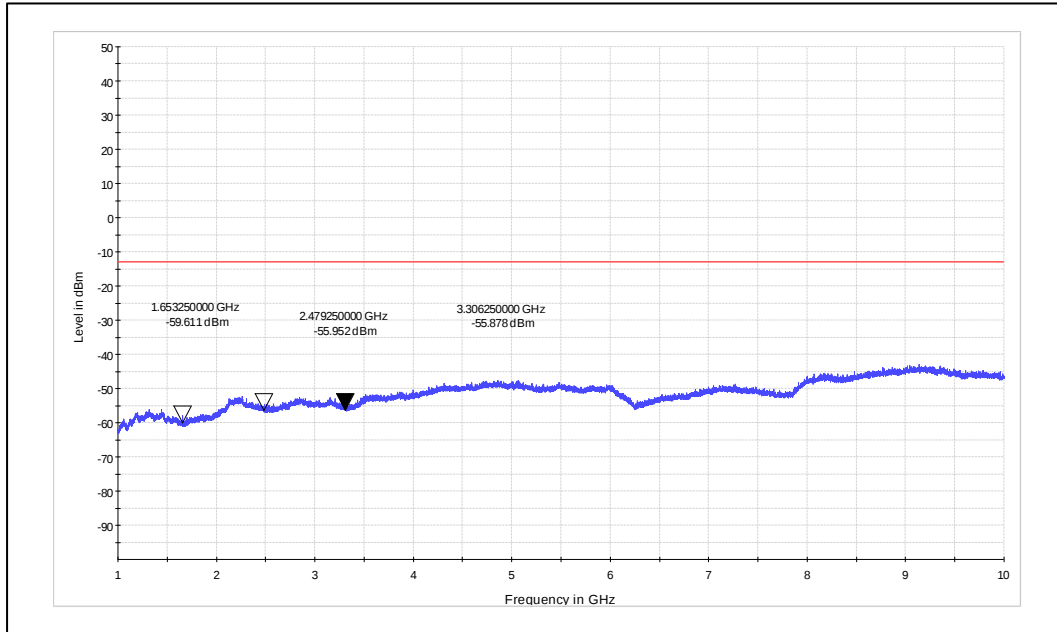
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Test Results for GSM:

Band	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBm)	Limit (dBm)	Margin (dB)
GPRS	824.20	1648.40	Vertical	-24.01	-13.00	-11.01
		2472.60		-29.19	-13.00	-16.19
		3296.80		-41.23	-13.00	-28.23
		1648.40	Horizontal	-28.27	-13.00	-15.27
		2472.60		-27.03	-13.00	-14.03
		3296.80		-39.85	-13.00	-26.85
	836.60	1673.20	Vertical	-25.70	-13.00	-12.70
		2509.80		-30.06	-13.00	-17.06
		3346.40		-40.51	-13.00	-27.51
		1673.20	Horizontal	-28.52	-13.00	-15.52
		2509.80		-31.97	-13.00	-18.97
		3346.40		-43.16	-13.00	-30.16
	848.80	1697.60	Vertical	-25.45	-13.00	-12.45
		2546.40		-32.27	-13.00	-19.27
		3395.20		-40.78	-13.00	-27.78
		1697.60	Horizontal	-27.66	-13.00	-14.66
		2546.40		-31.88	-13.00	-18.88
		3395.20		-40.64	-13.00	-27.64
EGPRS	824.20	1648.40	Vertical	-27.37	-13.00	-14.37
		2472.60		-29.03	-13.00	-16.03
		3296.80		-40.07	-13.00	-27.07
		1648.40	Horizontal	-28.15	-13.00	-15.15
		2472.60		-28.53	-13.00	-15.53
		3296.80		-41.51	-13.00	-28.51
	836.60	1673.20	Vertical	-26.11	-13.00	-13.11
		2509.80		-29.81	-13.00	-16.81
		3346.40		-43.44	-13.00	-30.44
		1673.20	Horizontal	-27.55	-13.00	-14.55
		2509.80		-28.60	-13.00	-15.60
		3346.40		-45.37	-13.00	-32.37
	848.80	1697.60	Vertical	-25.82	-13.00	-12.82
		2546.40		-32.07	-13.00	-19.07
		3395.20		-41.31	-13.00	-28.31
		1697.60	Horizontal	-28.06	-13.00	-15.06
		2546.40		-35.47	-13.00	-22.47
		3395.20		-42.86	-13.00	-29.86

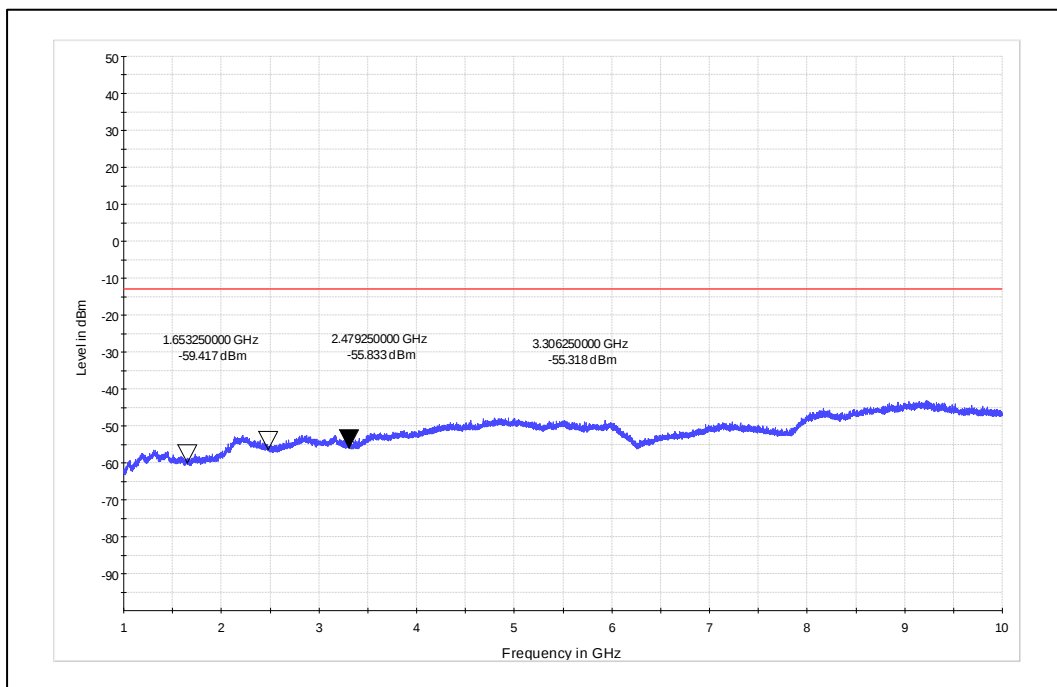
Test Plots for WCDMA Band 5:

Channel Frequency: 826.4MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:

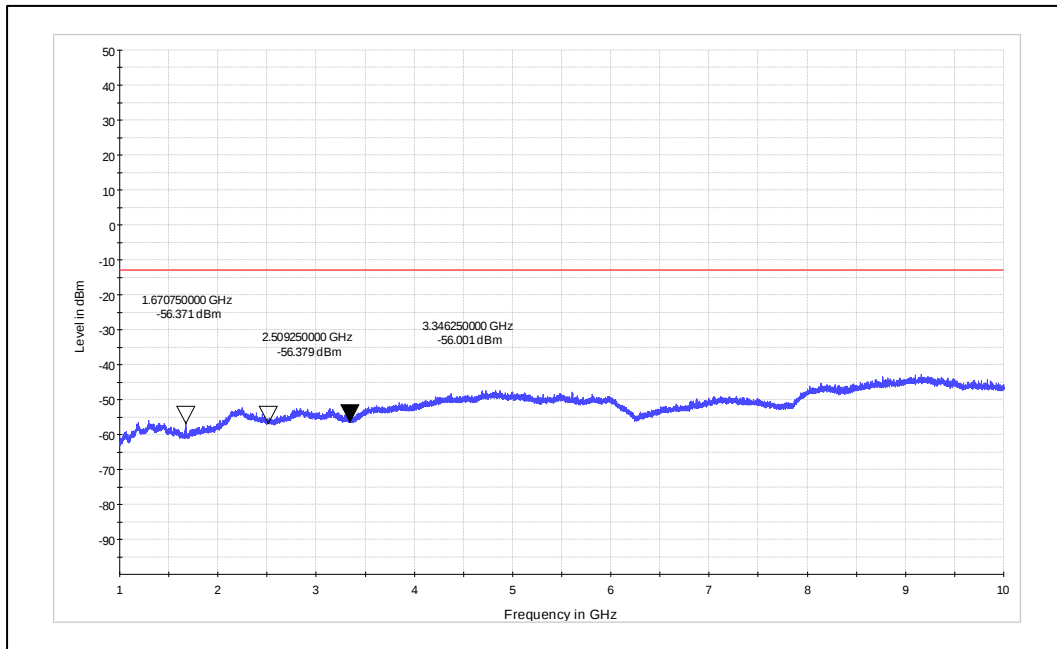
Test Report No.:

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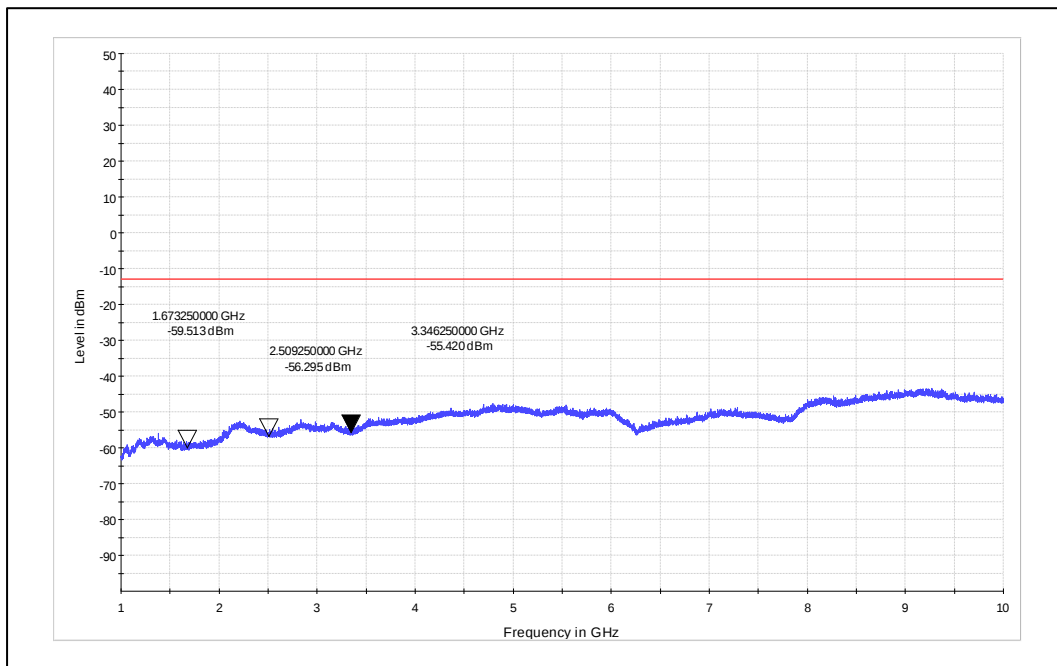
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Channel Frequency: 836.4MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

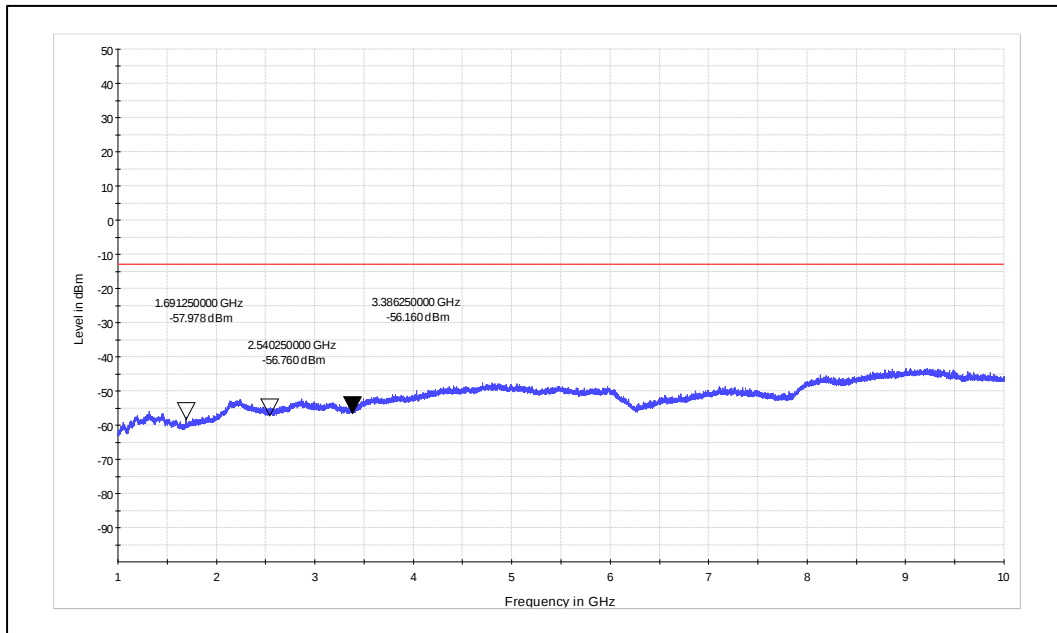
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

IN25CSFD 001

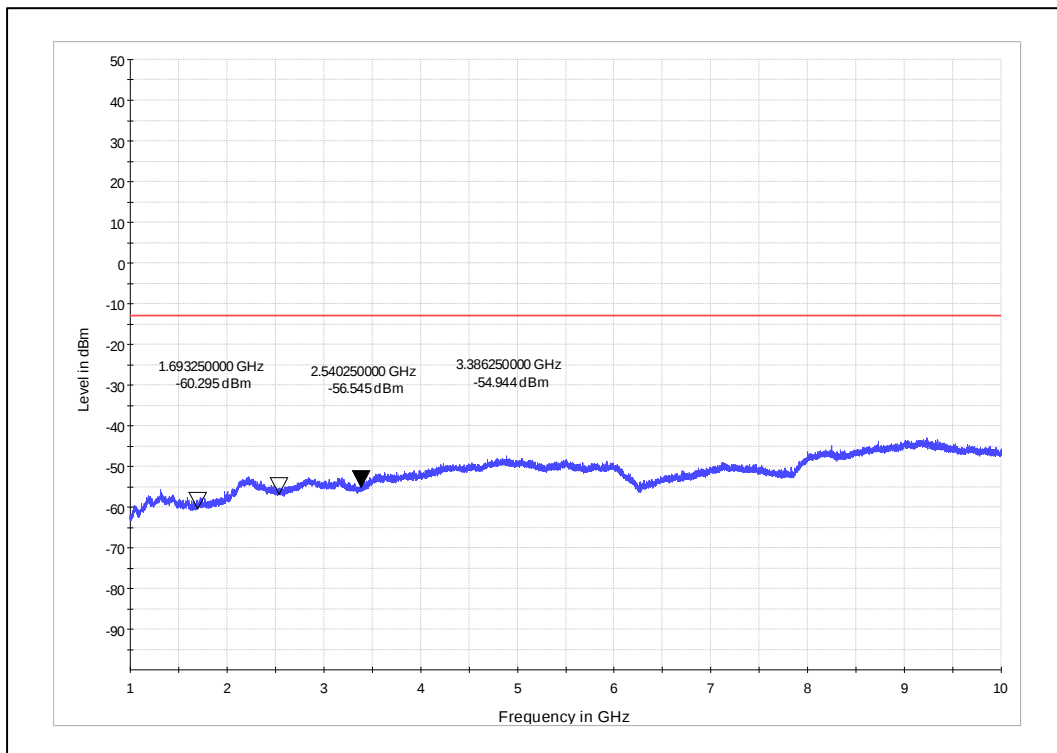
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Channel Frequency: 846.60MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

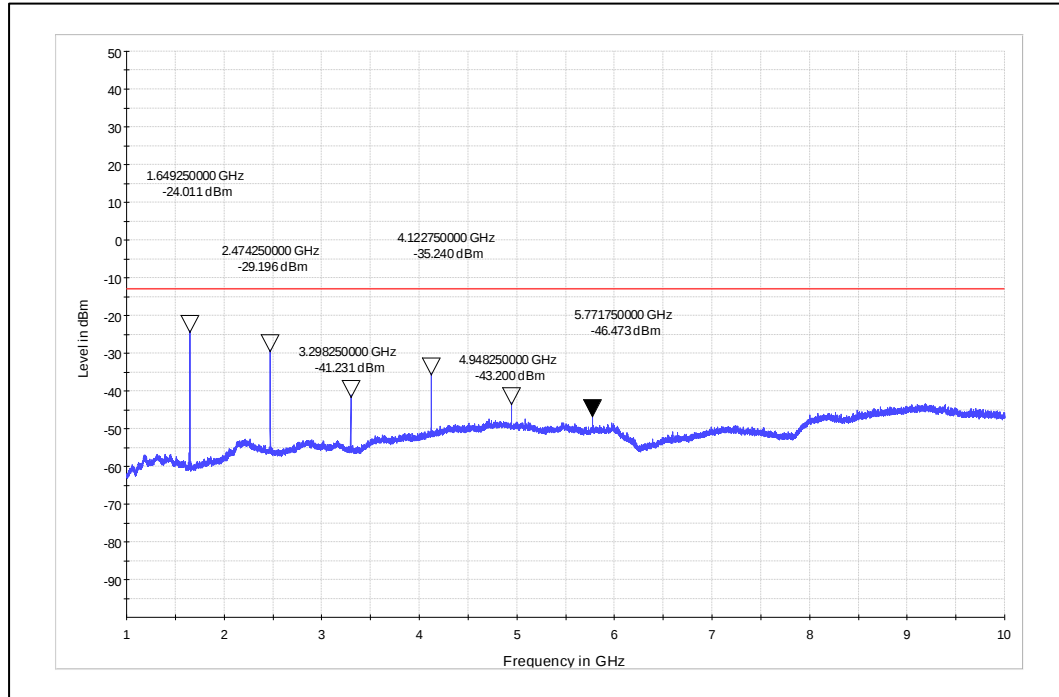
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Test Plots for GSM 850MHz

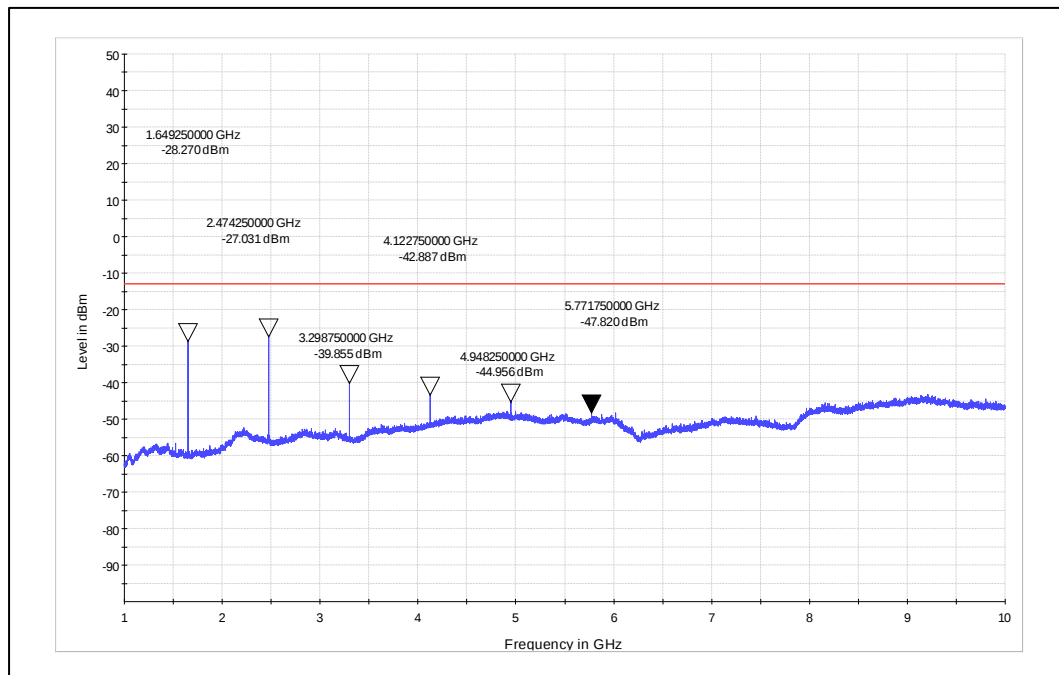
Mode: GPRS

Channel Frequency: 824.4MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

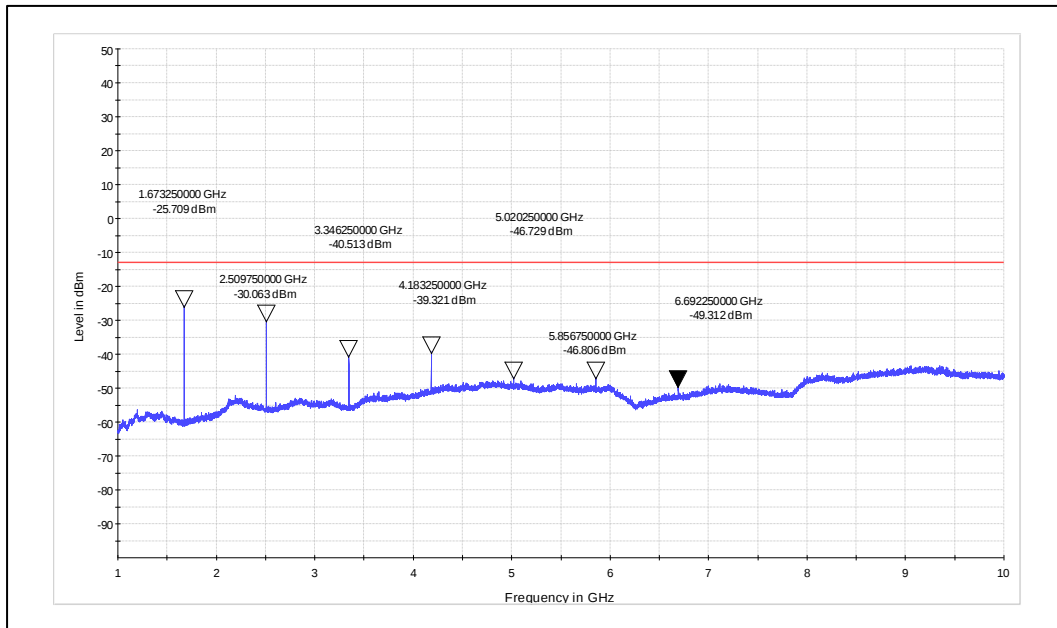
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

IN25CSFD 001

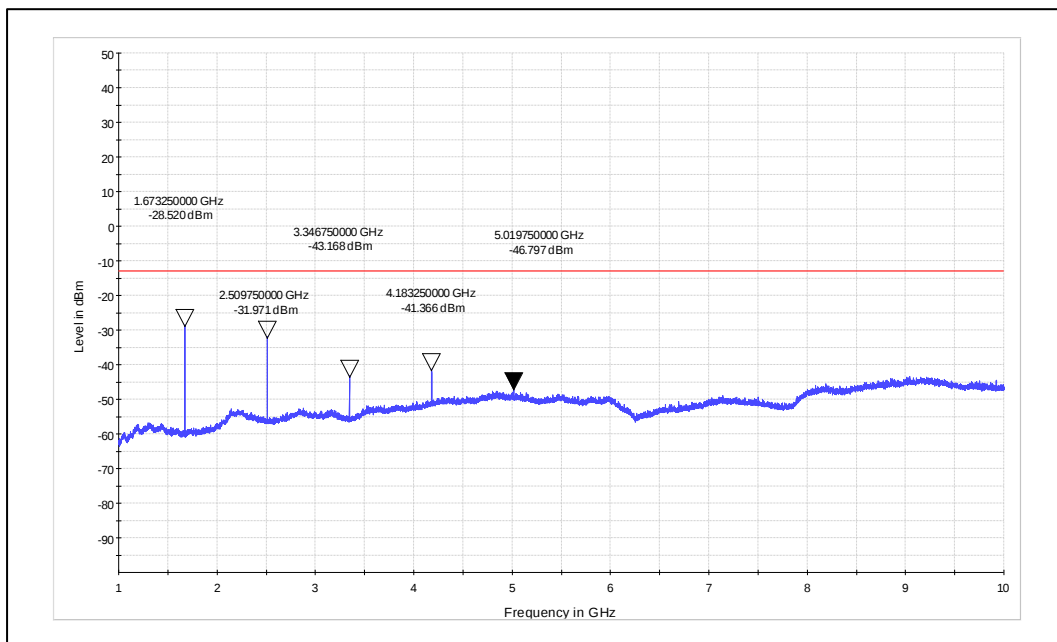
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Channel Frequency: 836.6MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

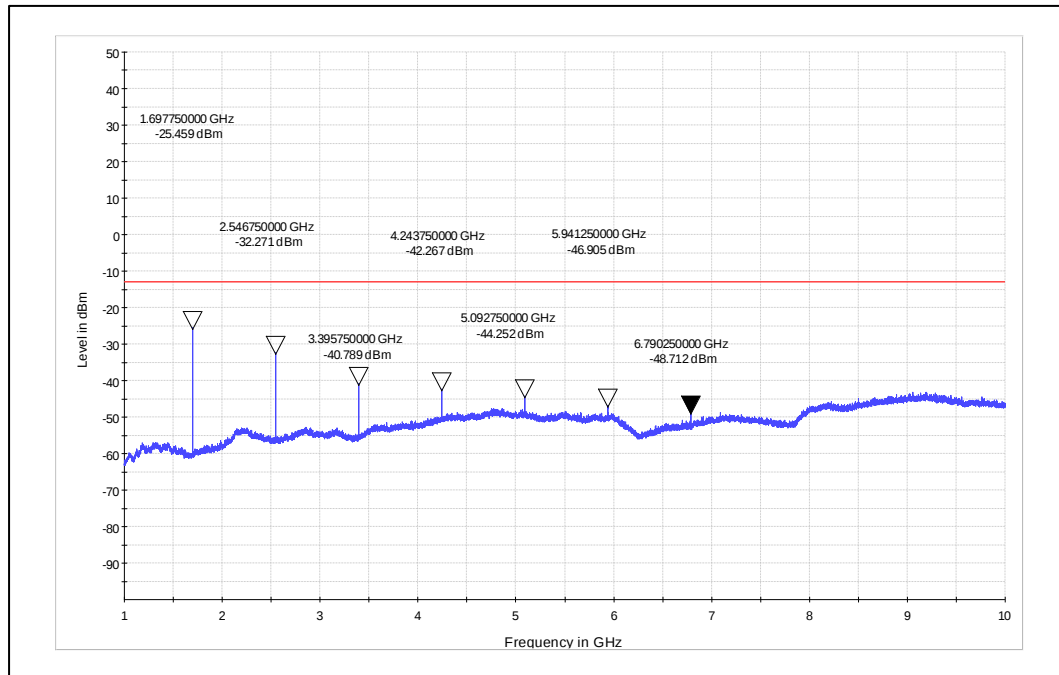
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

IN25CSFD 001

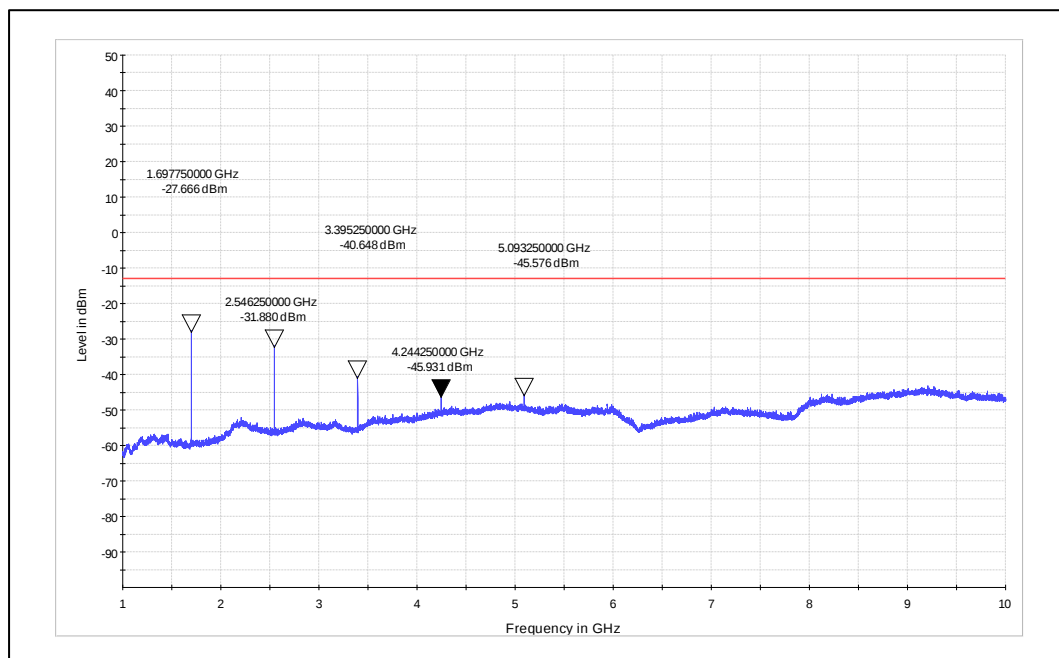
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Channel Frequency: 848.8MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Horizontal

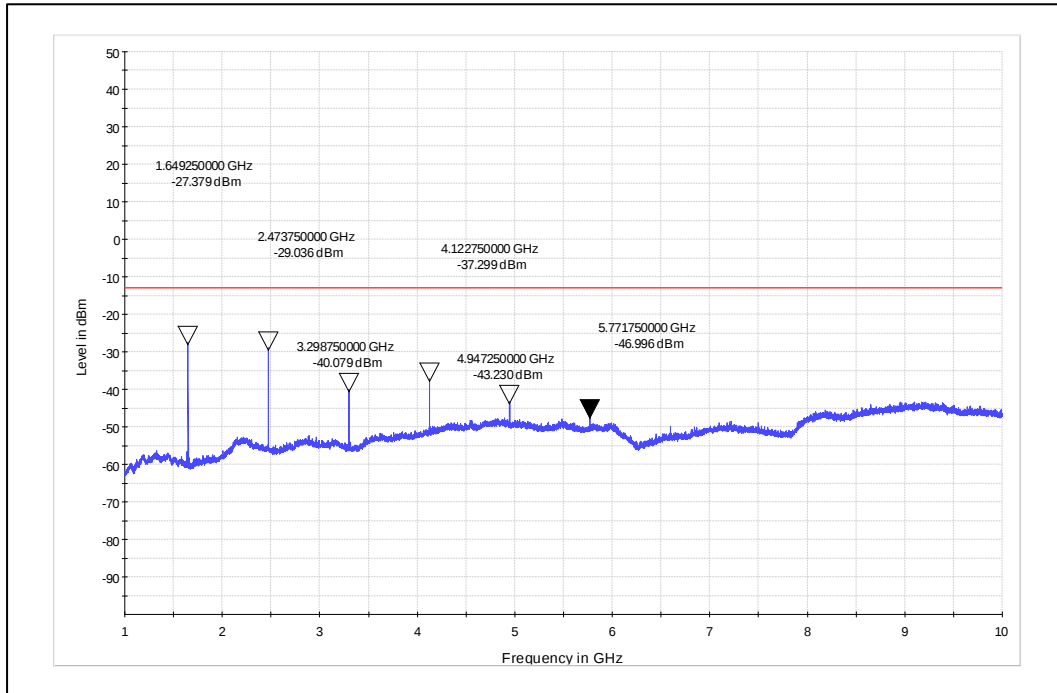
Prüfbericht - Nr.:
Test Report No.:

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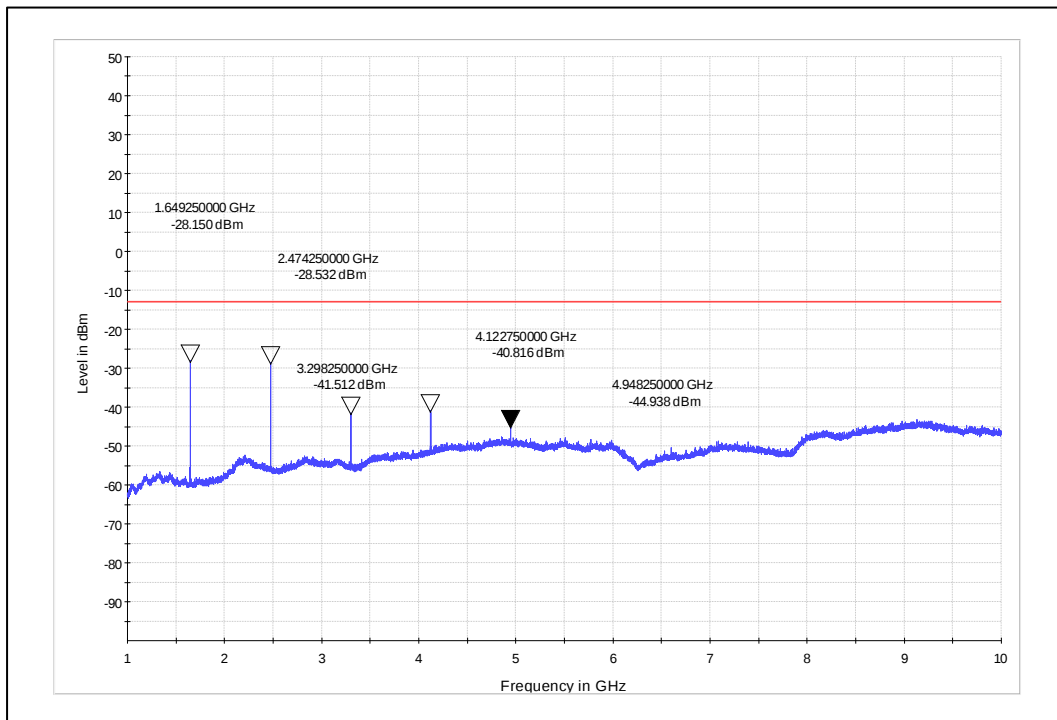
Mode: EGPRS 850MHz

Channel Frequency: 824.4MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

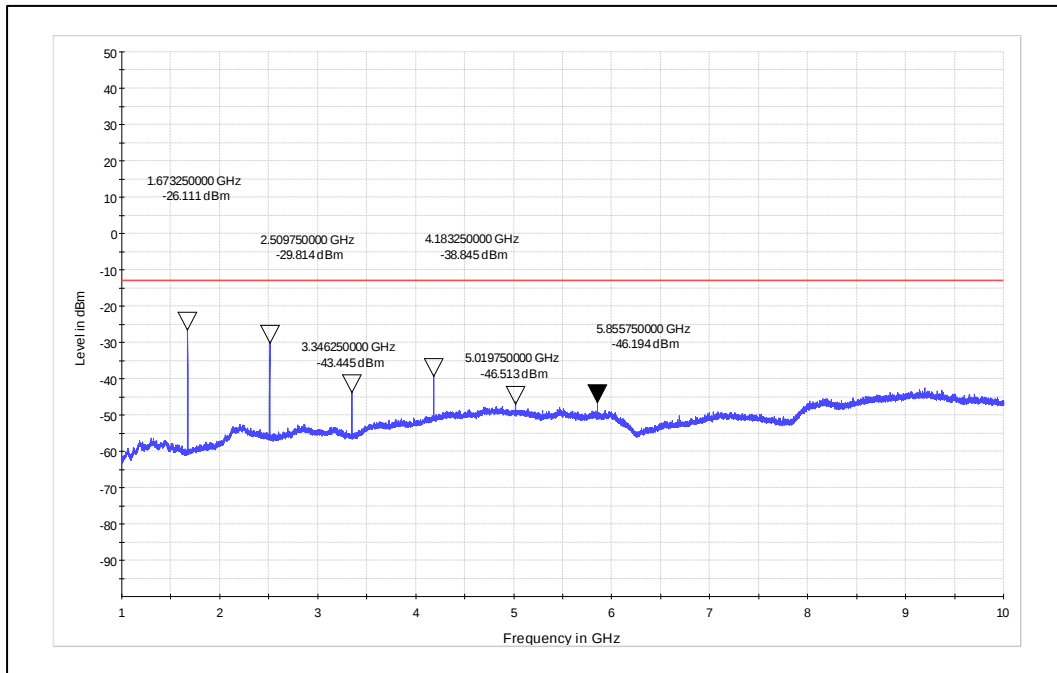
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

IN25CSFD 001

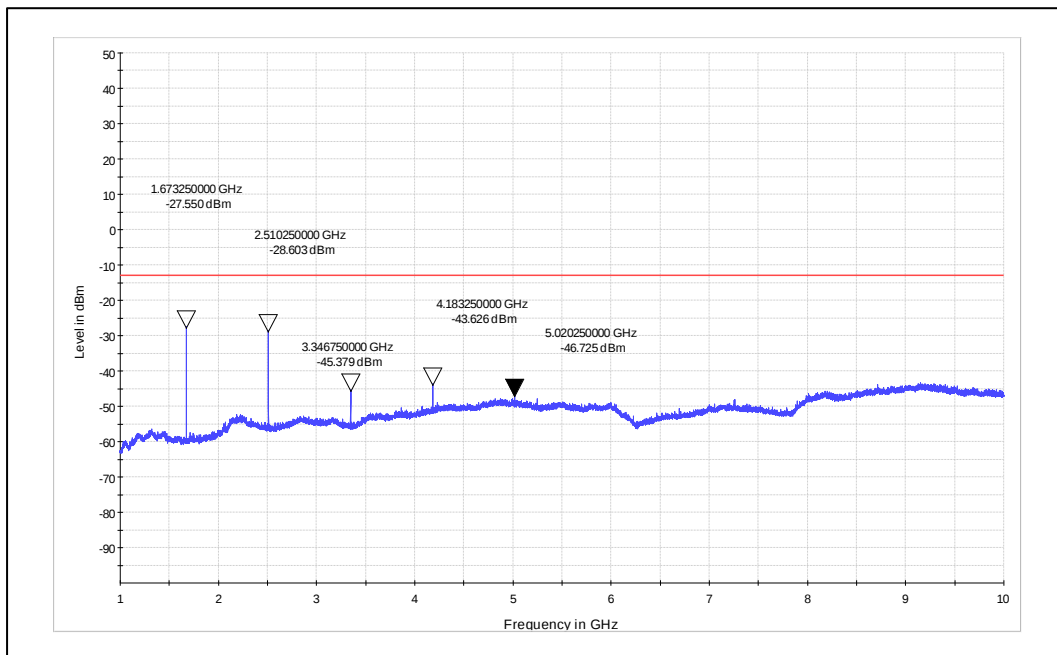
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Channel Frequency: 836.6MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

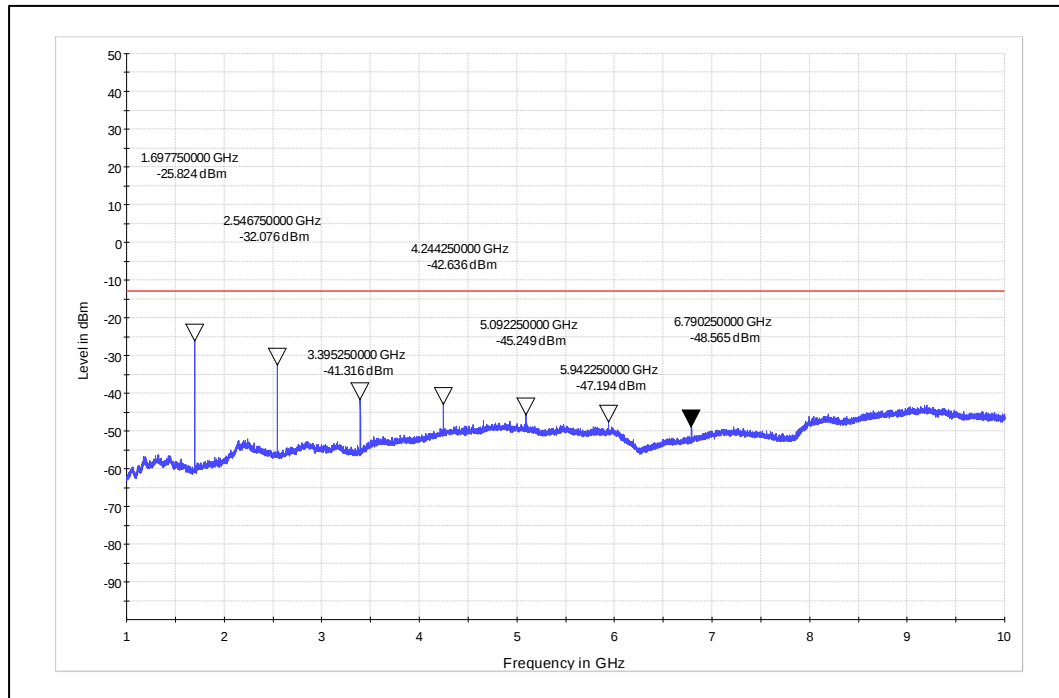
Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

IN25CSFD 001

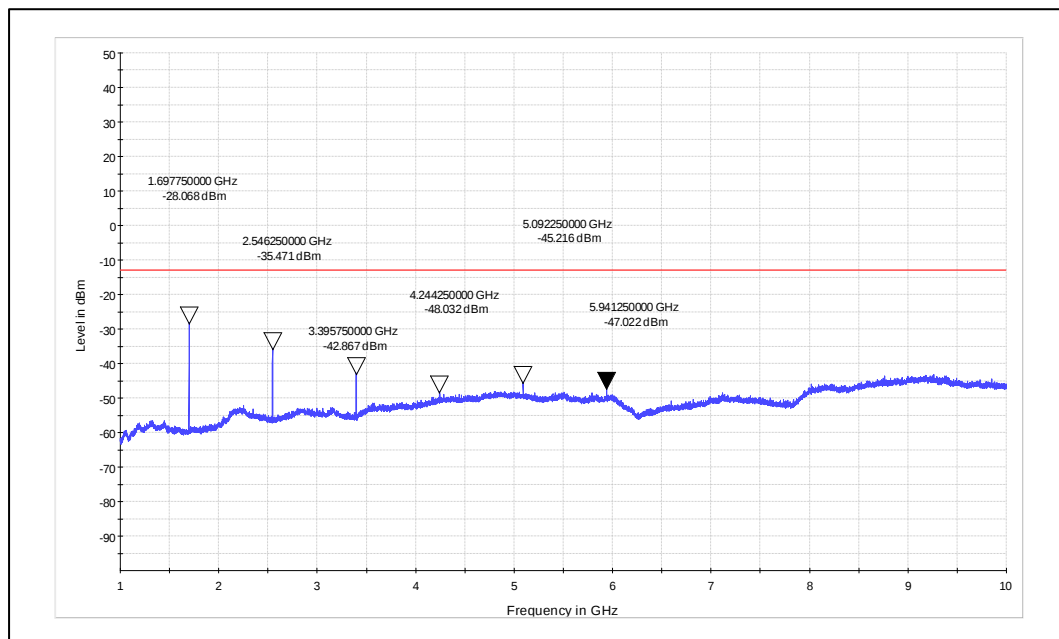
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Channel Frequency: 848.8MHz



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Vertical



Frequency Range: 1GHz – 10GHz

Antenna Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

IN25CSFD 001

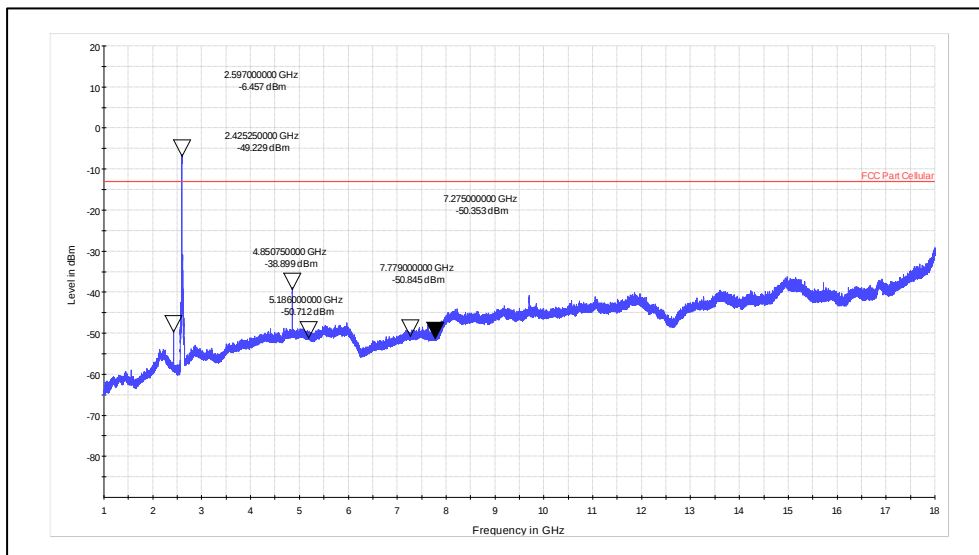
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Simultaneous Operation: Proprietary Protocol (2425) with LTE Band

Simultaneous Operation: Proprietary protocol + LTE

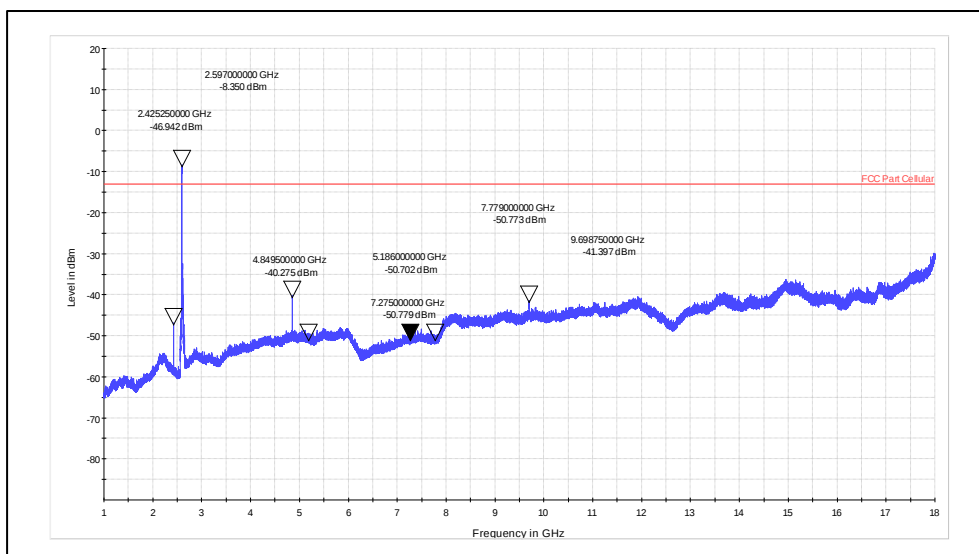
Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Measured Spurious Emission (dBm)	Limit (dBm)	Margin (dB)
2593.00	Vertical	5186.00	-50.71	-13.00	-37.71
		7779.00	-50.84	-13.00	-37.84
2425.00		4850.00	-38.89	-13.00	-25.89
		7275.00	-50.35	-13.00	-37.35
2593.00	Horizontal	5186.00	-50.70	-13.00	-37.70
		7779.00	-50.77	-13.00	-37.77
2425.00		4850.00	-40.27	-13.00	-27.27
		7275.00	-50.77	-13.00	-37.77

Test Plots:



Channel Frequency: 2593MHz & 2425MHz

Polarization: Vertical



Channel Frequency: 2593MHz & 2425MHz

Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

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7.4 AC Powerlines Conducted Emission

Result

Pass

Test Specification : FCC Part 15 Section 15.207
RSS Gen Issue 5, Section 8.8

Test Method : ANSI C 63.10-2013

Testing Location : Screened room

Measurement Bandwidth : 9kHz

Frequency Range : 150kHz – 30MHz

Supply Voltage : 110VAC,60Hz

Test Method : Refer TEST METHODOLOGY

Limits of section 15.207

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak (dBµV)	Average (dBµV)
0.15-0.5	66-56*	56-46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency

Test Conditions:

Normal Temperature = +24°C Voltage (V norm) = 110VAC 60Hz through mains Relative Humidity = 64%

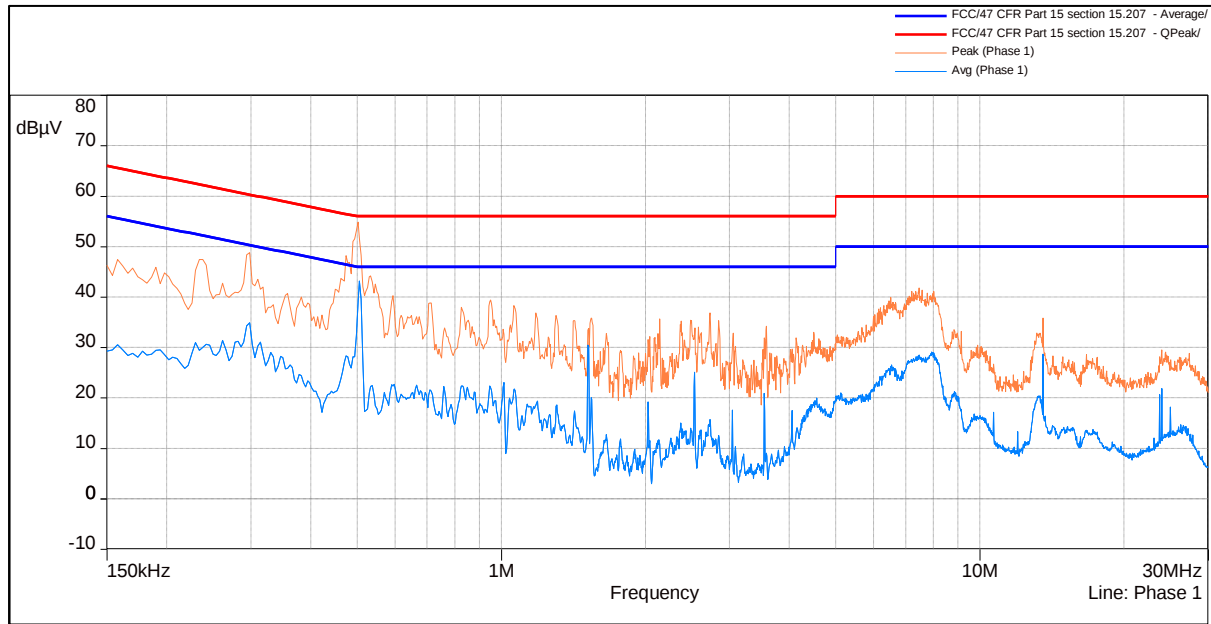
Prüfbericht - Nr.:
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Test results:

110VAC-60Hz-Line



Quasi Peak:

Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
0.50425	44.93	56	-11.07	Pass
0.29665	45.4	60.3	-14.9	Pass
0.94415	36.19	56	-19.81	Pass
0.2345	40.73	62.31	-21.58	Pass
1.52025	33.54	56	-22.46	Pass
7.91375	35.9	60	-24.1	Pass
1.2966	31.83	56	-24.17	Pass
13.5616	33.98	60	-26.02	Pass
2.5349	29.44	56	-26.56	Pass

Average:

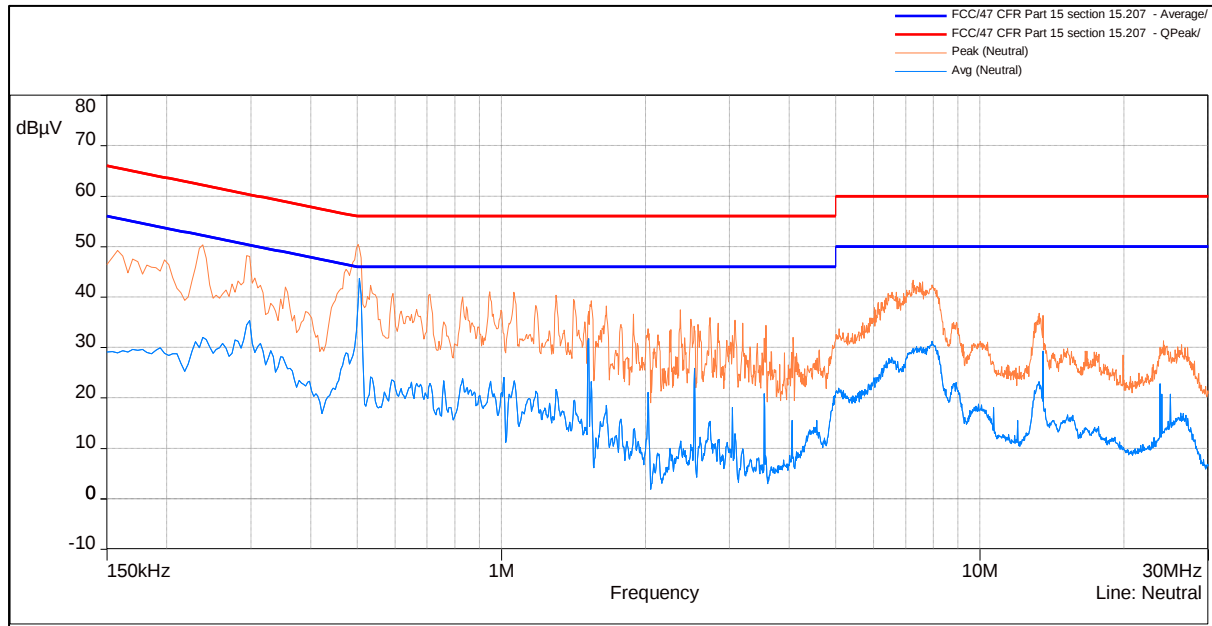
Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
0.50425	41.63	46	-4.37	Pass
1.52025	32.17	46	-13.83	Pass
0.29665	34.77	50.3	-15.53	Pass
2.5349	25.6	46	-20.4	Pass
13.5616	27.57	50	-22.43	Pass
7.91375	27.36	50	-22.64	Pass
0.94415	21.87	46	-24.13	Pass
0.2345	27.61	52.31	-24.7	Pass
1.2966	17.39	46	-28.61	Pass

Prüfbericht - Nr.:
Test Report No.:

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110VAC-60Hz-Neutral:



Quasipeak:

Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
0.50285	44.4	56	-11.6	Pass
0.29845	43.56	60.3	-16.74	Pass
0.2371	42.89	62.17	-19.28	Pass
1.06335	36.61	56	-19.39	Pass
1.53685	35.4	56	-20.6	Pass
7.95285	37.33	60	-22.67	Pass
13.55885	34.15	60	-25.85	Pass
2.53355	28.57	56	-27.43	Pass

Average:

Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Comments
0.50285	39.16	46	-6.84	Pass
0.29845	33.45	50.3	-16.84	Pass
2.53355	25.86	46	-20.14	Pass
7.95285	28.93	50	-21.07	Pass
0.2371	30.51	52.17	-21.66	Pass
13.55885	28.29	50	-21.71	Pass
1.06335	22.37	46	-23.63	Pass
1.53685	21.66	46	-24.34	Pass

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