

FCC Test Report (Part 30)

Report No.: RF190321C20

FCC ID: PY319100441

Test Model: MR5000

Received Date: Apr. 22, 2019

Test Date: Apr. 22 to May 15, 2019

Issued Date: May 15, 2019

Applicant: NETGEAR INC.

Address: 350 East Plumeria Drive, San Jose, CA 95134, USA

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

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

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF190321C20	Original release.	May 15, 2019

1 Certificate of Conformity

Product: 5G MHS Travel Router

Brand: Netgear

Test Model: MR5000

Sample Status: ENGINEERING SAMPLE

Applicant: NETGEAR INC.

Test Date: Apr. 22 to May 15, 2019

Standards: 47 CFR FCC Part 30

KDB 842590 D01 Upper Microwave Flexible Use Service v01

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

Prepared by :


Joanna Wang / Supervisor

, **Date:** May 15, 2019

Approved by :


Dylan Chiou / Senior Project Engineer

, **Date:** May 15, 2019

2 Summary of Test Results

47 CFR FCC Part 30				
FCC Clause	Test Item	Test Result	Test Condition	Remarks
2.1047	Modulation characteristics	Pass	-	Meet the requirement
2.1049	Emission Bandwidth	Pass	Radiated	Meet the requirement of limit.
30.202	EIRP	Pass		Meet the requirement of limit.
2.1051 30.203	Out-of-Band Spurious Emission	Pass		Meet the requirement of limit. Minimum passing margin is -7.11dB at 45.451 GHz.
2.1053 30.203	Out-of-Band Emission at the Band Edge	Pass		Meet the requirement of limit.
2.1055	Frequency Stability	Pass		Meet the requirement of limit.

Note:

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Uncertainty
Radiated emissions	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	5G MHS Travel Router
Brand	Netgear
Test Model	MR5000
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	5Vdc from power adapter or 5Vdc from USB interface or 3.85V dc from battery
Modulation Type	QPSK, 16QAM, 64QAM
Operating Frequency	37.649 ~ 39.950 GHz
Supported Channel Bandwidth	100MHz
Supported Carrier Component	1CC
Max. E.I.R.P. Power (RMS)	22.21dBm
Antenna Type	Refer to Note
Antenna Connector	NA
Accessory Device	Adapter x1 , Battery x1
Data Cable Supplied	USB cable x 1 (Shielded, 0.95m)
Antenna Information	There are three QTM's 5G array antenna modules, and each 5G array antenna module consists of two sub-arrays. 1. One 1x4 Dipole Antenna Sub-Array Single-polarized dipole antennas, Omni-directional individually but directional when all 4 active depending on phase. 2. One 1x4 Patch Antenna Sub-Array Cross-polarized patch antennas, patch antenna +/- 45 degrees vertical or horizontal at full gain (falls off 90 degrees). The dipole sub-array and patch sub-array cannot transmit simultaneously, only 1 sub-array active at one time. These three 5G arrays antenna modules do not operate simultaneously of each other. The purpose of the three spatially separated 5G arrays is for spatial diversity. As for beam-steering/beam-forming mechanism, the product's beam formation selects between dipole or patch array, the wide beam-width on the best array, sweeps begin to improve link, and beam-width then reduces on best beam location. Each antenna module contains 4 dual-polarized patch antennas in a linear array. Dipole and patch arrays will never work at the same time. Only one array at a time. The 4 antennas of each array can work together. The behavior of the antennas are controlled by the Qualcomm software, particularly the codebook. The software can turn on one, or two, or all four antennas at a time to create different antenna gain patterns (akabeams). The worst case is of course all 4 antennas are turned on at the same time.

	The maximum beam gain in V occurs when all 4 vertically polarized patch feeds are turned on together, with amplitude/phase weights for each patch determined by the Qualcomm code via the codebook. Similarly, the maximum beam gain in H occurs when all 4 horizontally polarized patch feeds are turned on together, via the codebook weights. Both H and V feeds on all 4 patches in the array can be excited simultaneously, in order to achieve MIMO operation (e.g., one data stream each on H beam and on V beam).
--	--

Note:

1. Simultaneously transmission condition.

Condition	Technology		
1	WLAN 2.4GHz 1Tx	WLAN 5GHz 1Tx	WWAN or 5G NR

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

2. The EUT contains three radio modules for millimeter wave.

Millimeter wave radio module	
Radio Module	Status
Module 1 (Bottom Side)	Active
Module 2 (Right Side)	Active
Module 3 (Top Side)	Active

3. The worst beam ID:

Beam ID			
Single Beam			MIMO Beam
37	180	52	37 + 166
48	175	166	52 + 180
56	185		

The worst beams are defined from the EIRP simulation report.

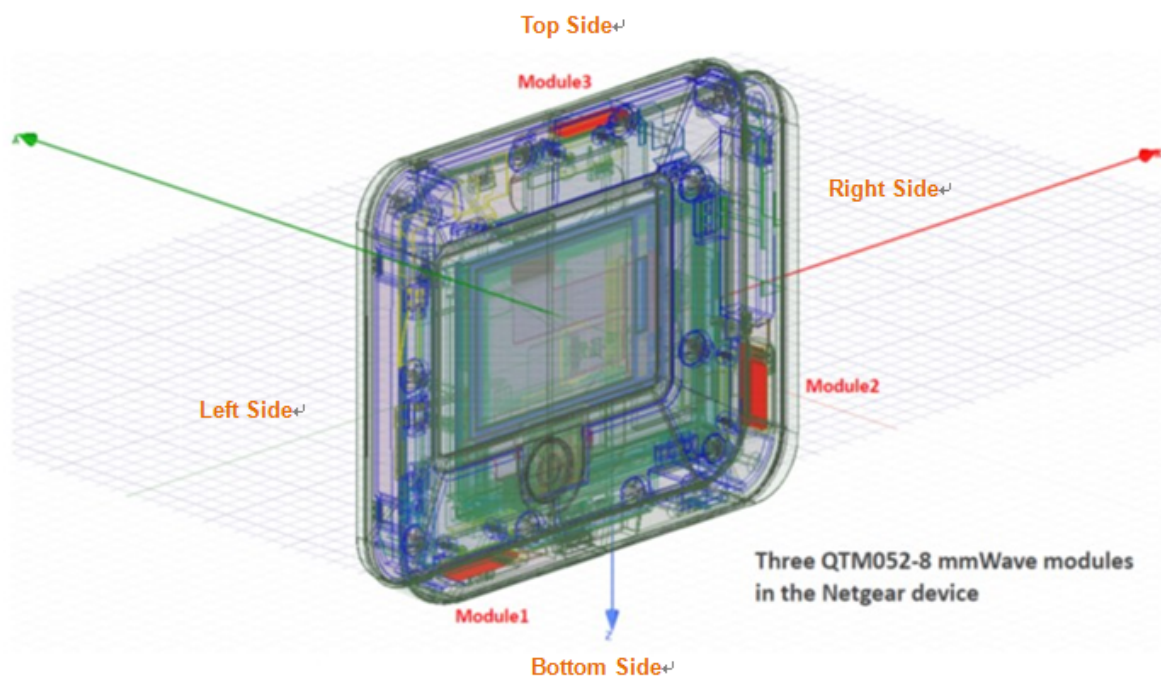
These modes were investigated and the worst case scenario was identified. The worst case data were presented in test report.

4. The EUT must be supplied with a power adapter or battery as following table:

Items	Brand	Model No.	P/N No.	Spec.
Adapter	NETGEAR	AD2122F20	332-11106-01	Input: 100-240V~50/60Hz 0.5A Output: 5V / 2.0A or 9V / 1.8A
Battery	NETGEAR	W-10a	308-10084-01	3.85V dc 5040mAh

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

6. <Antenna Location>



3.2 Description of Test Modes

Channel Bandwidth (MHz)	Channel	Beam ID
100	2239991	Single Beam: 37,48,52,56,166,175,180,185, Mimo Beam: 52+180,37+166
	2260003	
	2278331	

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO							DESCRIPTION
	MC	EB	EIRP	RE $\geq$ 1G	RE<1G	OOB	FS	
-	√	√	√	√	√	√	√	-

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

Modulation characteristics Measurement

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

TESTED CHANNEL	MODULATION	MODE
M	QPSK / 16QAM / 64QAM	Full RB

Radiated Emission Test (Above 1GHz):

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

TESTED CHANNEL	MODULATION	MODE
L, M, H	QPSK	1RB / 65RB offset

Radiated Emission Test (Below 1GHz):

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

TESTED CHANNEL	MODULATION	MODE
L, M, H	QPSK	1RB / 65RB offset

Out-of-Band Emission at the Band Edge:

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

TESTED CHANNEL	MODULATION	MODE
L	QPSK	1RB / 0RB offset Full RB
H	QPSK	1RB / 65RB offset Full RB

EIRP Power Measurement:

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

TESTED CHANNEL	MODULATION	MODE
L, M, H	QPSK / 16QAM / 64QAM	1RB / 0RB offset 1RB / 32RB offset 1RB / 65RB offset Full RB

Frequency Stability Measurement:

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

TESTED CHANNEL	MODULATION	MODE
M	QPSK	-

Emission Bandwidth Measurement:

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

TESTED CHANNEL	MODULATION	MODE
L, M, H	QPSK / 16QAM / 64QAM	1RB / 65RB offset Full RB

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
MC	25deg. C, 65%RH	120Vac, 60Hz	Leo Tsai
EIRP	25deg. C, 65%RH	120Vac, 60Hz	Leo Tsai
FS	25deg. C, 65%RH	120Vac, 60Hz	Leo Tsai
EB	25deg. C, 65%RH	120Vac, 60Hz	Leo Tsai
RE $\geq$ 1G	24deg. C, 68%RH	120Vac, 60Hz	Leo Tsai
RE<1G	24deg. C, 68%RH	120Vac, 60Hz	Leo Tsai
OOB	26deg. C, 69%RH	120Vac, 60Hz	Leo Tsai

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is 100 %.



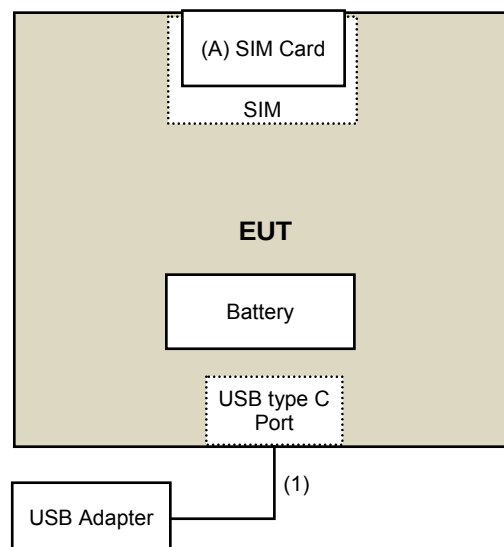
3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	SIM Card	R&S	CMW-Z05	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB type C Cable	1	1	Yes	0	Supplied by client

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

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

FCC 47 CFR Part 2

FCC 47 CFR Part 30

KDB 842590 D01 Upper Microwave Flexible Use Service v01

ANSI 63.26-2015

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

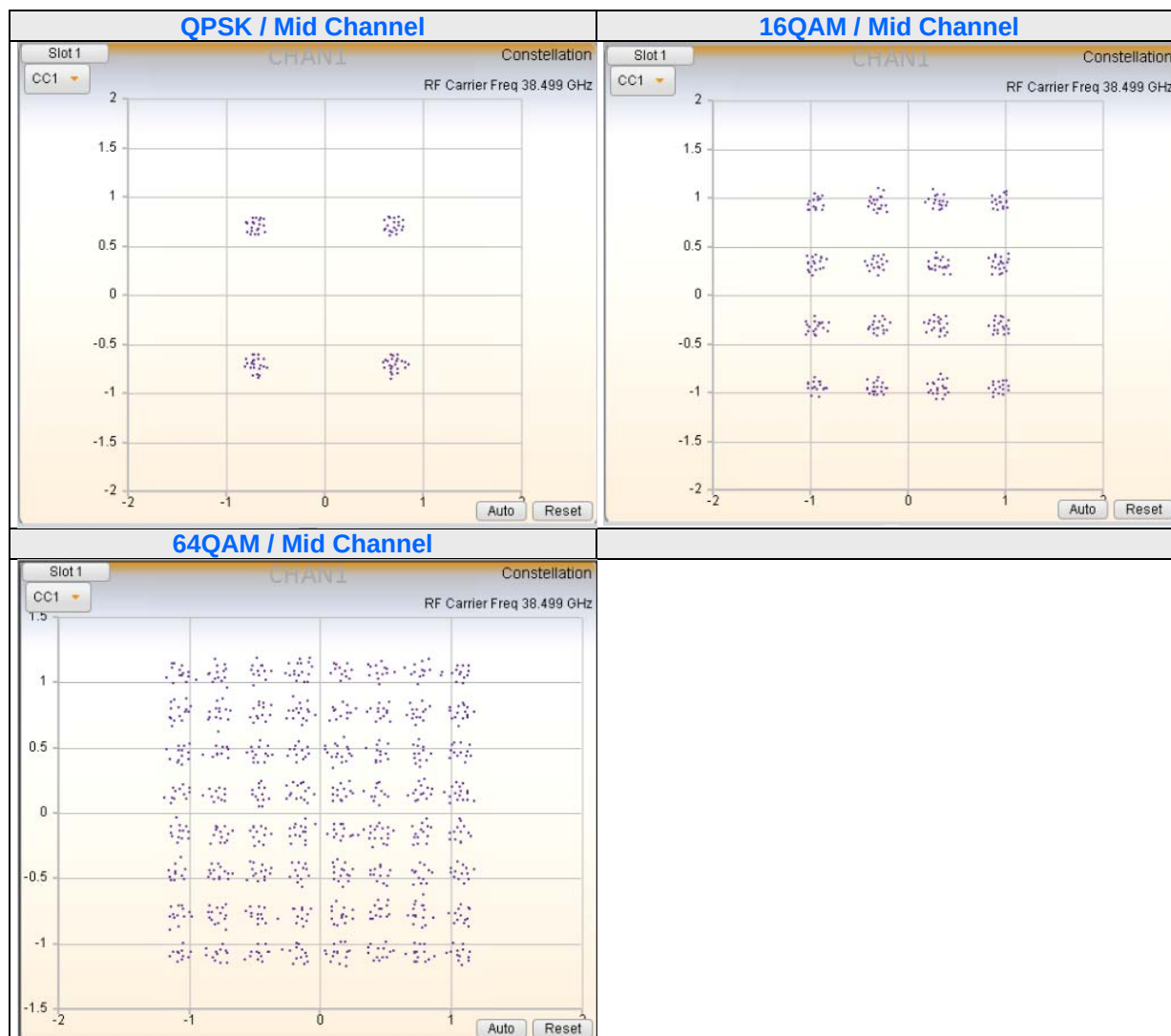
4 Test Types and Results

4.1 Modulation characteristics

4.1.1 Limits of Modulation characteristics

N/A

4.1.2 Results



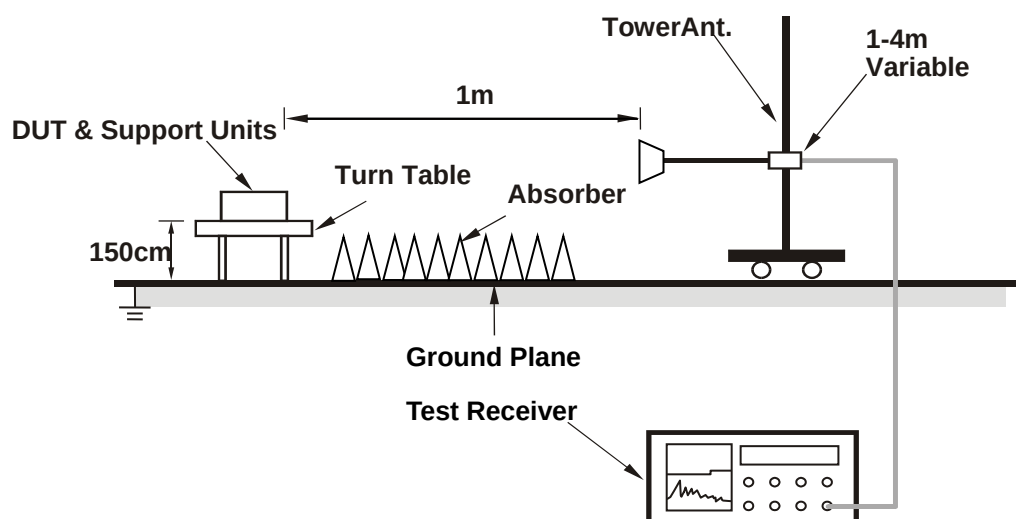
4.2 Equivalent Isotropic Radiated Power (EIRP) Measurement

4.2.1 Limits of EIRP Measurement

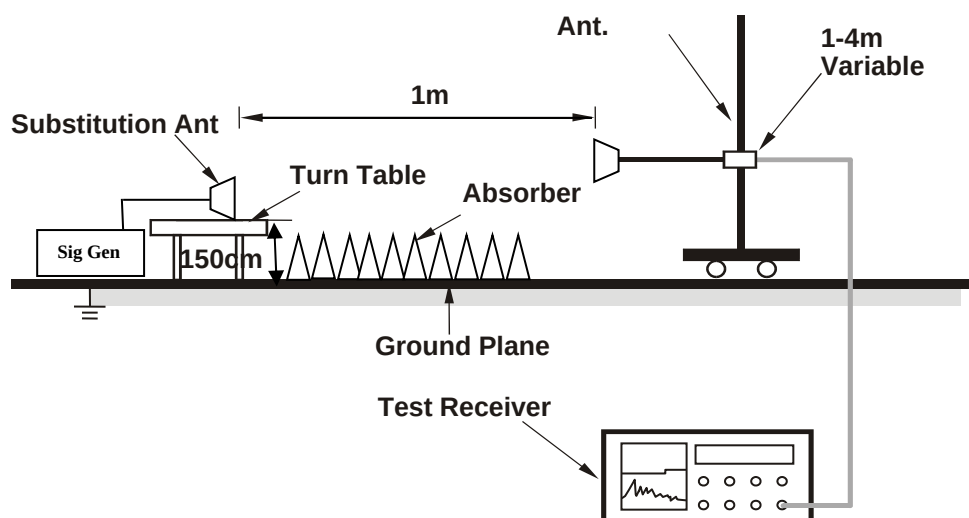
Device		Maximum Limit of EIRP
☐	Fixed and Base Stations	EIRP 75dBm/100MHz (sum of all antenna elements)
☒	Mobile Stations	EIRP 43dBm (sum of all antenna elements)
☐	Transportable Stations	EIRP 55dBm (sum of all antenna elements)

4.2.2 Test Setup

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



Substitution method set-up for radiated emission



4.2.3 Test Instruments

For Below 40GHz and Frequency Stability

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Jan. 03, 2019	Jan. 02, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
Spectrum Analyzer KEYSIGHT	N9030A	MY53120770	Jan. 23, 2019	Jan. 22, 2020
Spectrum Analyzer KEYSIGHT	N9030B	MY57140953	Jun. 22, 2018	Jun. 21, 2019
Biconical antenna SCHWARZBECK	VHBB9124	9124-546	Jan. 14, 2019	Jan. 13, 2020
LOG Antenna SCHWARZBECK	VUSLP 9111	9111-363	Jan. 14, 2019	Jan. 13, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 21, 2018	Nov. 20, 2019
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna ETS	3117	00034126	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Nov. 25, 2018	Nov. 24, 2019
Signal Generator	N5173B	MY53270724	Apr. 07, 2019	Apr. 06, 2020
Preamplifier (Below 1GHz) Agilent	8447D	2944A10631	Aug. 08, 2018	Aug. 07, 2019
Preamplifier (1GHz-18GHz) KEYSIGHT	83017A	MY53270295	Jul. 02, 2018	Jul. 01, 2019
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980116	Oct. 12, 2018	Oct. 11, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER	EMC102-KM-KM-600	150928	Mar. 25, 2019	Mar. 24, 2020
RF signal cable HUBER+SUHNER	EMC102-KM-KM-3000	150929	Mar. 25, 2019	Mar. 24, 2020
RF signal cable Rosnal	K1K50-UP0279-K 1K50-3000	181129-1	Dec. 18, 2018	Dec. 17, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 04, 2018	Jun. 03, 2019
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	May 22, 2018	May 21, 2019

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 4.

For Above 40GHz:

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 01, 2018	Jul. 31, 2019
*Spectrum Analyzer Keysight	N9041B	US56480107	Aug. 14, 2017	Aug. 13, 2019
*Horn Antenna (33~55GHz) OML	M22RH	110215-1	Oct. 17, 2017	Oct. 16, 2019
*Horn Antenna (50~75GHz) OML	M15HWD	110215-1	Oct. 17, 2017	Oct. 16, 2019
*Horn Antenna (75~110GHz) OML	M10RH	110215-1	Oct. 17, 2017	Oct. 16, 2019
*Harmonic Mixer (110~170GHz) OML	M06RH	110215-1	Oct. 17, 2017	Oct. 16, 2019
*Horn Antenna(110~170GHz) OML	M06HWD	110215-1	Oct. 17, 2017	Oct. 16, 2019
*Harmonic Mixer (140~220GHz) OML	M05HWD	110215-1	Oct. 17, 2017	Oct. 16, 2019
*Horn Antenna (140~220GHz) OML	M05RH	110215-1	Oct. 17, 2017	Oct. 16, 2019
*Diplexer EMCI	DPL26	DPL26_01	Oct. 17, 2017	Oct. 16, 2019
*WR15CH Conical Horn Keysight	WR15CH	WR15CH-01	Oct. 17, 2017	Oct. 16, 2019
*WR10CH Conical Horn Keysight	WR10CH	WR10CH-01	Oct. 17, 2017	Oct. 16, 2019
*Millimeter-Wave Signal Generator Frequency Extension Module (50~75 GHz) Keysight	E8257DV15	US54250106	Oct. 17, 2017	Oct. 16, 2019
*Millimeter-Wave Signal Generator Frequency Extension Module (75~110 GHz) Keysight	E8257DV10	US53250009	Oct. 17, 2017	Oct. 16, 2019
Millimeter-Wave Signal Generator Frequency Extension Module (90~140 GHz) VDI	VDIWR8.0SGX	PSGX002	C.O.C. Note4	C.O.C. Note4
Millimeter-Wave Signal Generator Frequency Extension Module (140~220 GHz) VDI	VDIWR5.1SGX	PSGX 007	C.O.C. Note4	C.O.C. Note4
PSG analog signal generator Keysight	E8257D	MY53401987	Jun. 26, 2018	Jun. 25, 2019
Millimeter-Wave Signal Spectrum Analyzer Extension Modules(90~140 GHz)	VDIWR8.0SAX	PXAX002	C.O.C. Note4	C.O.C. Note4
Millimeter-Wave Signal Spectrum Analyzer Extension Modules(140~220 GHz)	VDIWR5.1SAX	PXAX 007	C.O.C. Note4	C.O.C. Note4
Power meter Keysight	E4417A	MY55276004	Oct. 17, 2017	Oct. 16, 2019
Waveguide Power Sensor Keysight	V8486A	MY55170003	Oct. 17, 2017	Oct. 16, 2019
Waveguide Power Sensor Keysight	W8486A	MY55230006	Oct. 17, 2017	Oct. 16, 2019
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 4
4. C.O.C: Certificate of conformance

4.2.4 Test Procedures

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G

STEP 1: DUT emission amplitude level = SPEC ANALYZER READING (X dBm)

STEP 2: Adjust SG so that SG + TX CABLE LOSS + TX ANT GAIN + Free Space Path Loss + RX ANT Factor + RX Cable Loss = SPEC ANALYZER READING (X dBm)

- EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

Note: Measurements were taken in the far field of the mm-Wave test signal based on the formula:
 $R \geq (2D^2) / \text{wavelength}$.

Measurement Distance		
EUT antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
Below 18GHz	0.05m	3m
18GHz to 40GHz	0.3m	1m
40GHz to 200GHz	0.12m to 0.59m	1m
Note: EUT Antenna Dimension is 21mm length, 2.2mm thick and 6.7mm high.		
Measurement antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
40GHz-50GHz	30mm	1m
50GHz-75GHz	25mm	1m
75GHz-110GHz	18mm	1m
110GHz-170GHz	12mm	1m
170GHz-200GHz	8mm	1m

4.2.5 Test Settings

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

4.2.6 Deviation from Test Standard

No deviation.

4.2.7 EUT Operating Conditions

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

4.2.8 Test Results

Beam ID	37	EUT position	X-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.22	7.03	10.47	17.50	43.00	-25.50
		1RB32	-35.20	7.05	10.47	17.52	43.00	-25.48
		1RB65	-35.10	7.15	10.47	17.62	43.00	-25.38
		66RB	-35.49	6.76	10.47	17.23	43.00	-25.77
2260003	38850.24	1RB0	-36.12	7.54	9.43	16.97	43.00	-26.03
		1RB32	-36.10	7.56	9.43	16.99	43.00	-26.01
		1RB65	-36.05	7.61	9.43	17.04	43.00	-25.96
		66RB	-36.38	7.28	9.43	16.71	43.00	-26.29
2278331	39949.92	1RB0	-37.59	7.93	9.51	17.44	43.00	-25.56
		1RB32	-37.62	7.90	9.51	17.41	43.00	-25.59
		1RB65	-37.53	7.99	9.51	17.50	43.00	-25.50
		66RB	-37.89	7.63	9.51	17.14	43.00	-25.86

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-38.06	4.19	10.47	16.64	43.00	-26.36
		1RB32	-38.02	4.23	10.47	16.59	43.00	-26.41
		1RB65	-37.97	4.28	10.47	16.68	43.00	-26.32
		66RB	-38.29	3.96	10.47	16.35	43.00	-26.65
2260003	38850.24	1RB0	-38.92	4.74	9.43	16.05	43.00	-26.95
		1RB32	-38.82	4.84	9.43	16.09	43.00	-26.91
		1RB65	-38.73	4.93	9.43	16.17	43.00	-26.83
		66RB	-39.08	4.58	9.43	15.81	43.00	-27.19
2278331	39949.92	1RB0	-40.20	5.32	9.51	16.56	43.00	-26.44
		1RB32	-40.24	5.28	9.51	16.62	43.00	-26.38
		1RB65	-40.15	5.37	9.51	16.68	43.00	-26.32
		66RB	-40.49	5.03	9.51	16.34	43.00	-26.66

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-38.06	4.19	10.47	14.66	43.00	-28.34
		1RB32	-38.02	4.23	10.47	14.70	43.00	-28.30
		1RB65	-37.97	4.28	10.47	14.75	43.00	-28.25
		66RB	-38.29	3.96	10.47	14.43	43.00	-28.57
2260003	38850.24	1RB0	-38.92	4.74	9.43	14.17	43.00	-28.83
		1RB32	-38.82	4.84	9.43	14.27	43.00	-28.73
		1RB65	-38.73	4.93	9.43	14.36	43.00	-28.64
		66RB	-39.08	4.58	9.43	14.01	43.00	-28.99
2278331	39949.92	1RB0	-40.20	5.32	9.51	14.83	43.00	-28.17
		1RB32	-40.24	5.28	9.51	14.79	43.00	-28.21
		1RB65	-40.15	5.37	9.51	14.88	43.00	-28.12
		66RB	-40.49	5.03	9.51	14.54	43.00	-28.46

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	48	EUT position	X-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.75	8.50	10.47	18.97	43.00	-24.03
		1RB32	-33.73	8.52	10.47	18.99	43.00	-24.01
		1RB65	-33.64	8.61	10.47	19.08	43.00	-23.92
		66RB	-34.03	8.22	10.47	18.69	43.00	-24.31
2260003	38850.24	1RB0	-35.18	8.48	9.43	17.91	43.00	-25.09
		1RB32	-35.14	8.52	9.43	17.95	43.00	-25.05
		1RB65	-35.07	8.59	9.43	18.02	43.00	-24.98
		66RB	-35.43	8.23	9.43	17.66	43.00	-25.34
2278331	39949.92	1RB0	-36.96	8.56	9.51	18.07	43.00	-24.93
		1RB32	-36.93	8.59	9.51	18.10	43.00	-24.90
		1RB65	-36.86	8.66	9.51	18.17	43.00	-24.83
		66RB	-37.22	8.30	9.51	17.81	43.00	-25.19

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-34.78	7.47	10.47	17.94	43.00	-25.06
		1RB32	-34.74	7.51	10.47	17.98	43.00	-25.02
		1RB65	-34.67	7.58	10.47	18.05	43.00	-24.95
		66RB	-35.03	7.22	10.47	17.69	43.00	-25.31
2260003	38850.24	1RB0	-36.82	6.84	9.43	16.27	43.00	-26.73
		1RB32	-36.80	6.86	9.43	16.29	43.00	-26.71
		1RB65	-36.74	6.92	9.43	16.35	43.00	-26.65
		66RB	-37.08	6.58	9.43	16.01	43.00	-26.99
2278331	39949.92	1RB0	-37.86	7.66	9.51	17.17	43.00	-25.83
		1RB32	-37.81	7.71	9.51	17.22	43.00	-25.78
		1RB65	-37.75	7.77	9.51	17.28	43.00	-25.72
		66RB	-38.10	7.42	9.51	16.93	43.00	-26.07

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-36.76	5.49	10.47	15.96	43.00	-27.04
		1RB32	-36.70	5.55	10.47	16.02	43.00	-26.98
		1RB65	-36.65	5.60	10.47	16.07	43.00	-26.93
		66RB	-36.98	5.27	10.47	15.74	43.00	-27.26
2260003	38850.24	1RB0	-38.67	4.99	9.43	14.42	43.00	-28.58
		1RB32	-38.70	4.96	9.43	14.39	43.00	-28.61
		1RB65	-38.64	5.02	9.43	14.45	43.00	-28.55
		66RB	-38.96	4.70	9.43	14.13	43.00	-28.87
2278331	39949.92	1RB0	-39.76	5.76	9.51	15.27	43.00	-27.73
		1RB32	-39.73	5.79	9.51	15.30	43.00	-27.70
		1RB65	-39.67	5.85	9.51	15.36	43.00	-27.64
		66RB	-40.00	5.52	9.51	15.03	43.00	-27.97

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	52	EUT position	X-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.12	9.13	10.47	19.60	43.00	-23.40
		1RB32	-33.13	9.12	10.47	19.59	43.00	-23.41
		1RB65	-33.09	9.16	10.47	19.63	43.00	-23.37
		66RB	-33.47	8.78	10.47	19.25	43.00	-23.75
2260003	38850.24	1RB0	-35.36	8.30	9.43	17.73	43.00	-25.27
		1RB32	-35.28	8.38	9.43	17.81	43.00	-25.19
		1RB65	-35.25	8.41	9.43	17.84	43.00	-25.16
		66RB	-35.67	7.99	9.43	17.42	43.00	-25.58
2278331	39949.92	1RB0	-37.60	7.92	9.51	17.43	43.00	-25.57
		1RB32	-37.63	7.89	9.51	17.40	43.00	-25.60
		1RB65	-37.57	7.95	9.51	17.46	43.00	-25.54
		66RB	-38.02	7.50	9.51	17.01	43.00	-25.99

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-34.41	7.84	10.47	18.31	43.00	-24.69
		1RB32	-34.32	7.93	10.47	18.40	43.00	-24.60
		1RB65	-34.30	7.95	10.47	18.42	43.00	-24.58
		66RB	-34.66	7.59	10.47	18.06	43.00	-24.94
2260003	38850.24	1RB0	-36.14	7.52	9.43	16.95	43.00	-26.05
		1RB32	-36.16	7.50	9.43	16.93	43.00	-26.07
		1RB65	-36.08	7.58	9.43	17.01	43.00	-25.99
		66RB	-36.50	7.16	9.43	16.59	43.00	-26.41
2278331	39949.92	1RB0	-38.42	7.10	9.51	16.61	43.00	-26.39
		1RB32	-38.41	7.11	9.51	16.62	43.00	-26.38
		1RB65	-38.32	7.20	9.51	16.71	43.00	-26.29
		66RB	-38.76	6.76	9.51	16.27	43.00	-26.73

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-36.26	5.99	10.47	16.46	43.00	-26.54
		1RB32	-36.21	6.04	10.47	16.51	43.00	-26.49
		1RB65	-36.19	6.06	10.47	16.53	43.00	-26.47
		66RB	-36.55	5.70	10.47	16.17	43.00	-26.83
2260003	38850.24	1RB0	-37.90	5.76	9.43	15.19	43.00	-27.81
		1RB32	-37.92	5.74	9.43	15.17	43.00	-27.83
		1RB65	-37.86	5.80	9.43	15.23	43.00	-27.77
		66RB	-38.29	5.37	9.43	14.80	43.00	-28.20
2278331	39949.92	1RB0	-40.01	5.51	9.51	15.02	43.00	-27.98
		1RB32	-40.10	5.42	9.51	14.93	43.00	-28.07
		1RB65	-39.94	5.58	9.51	15.09	43.00	-27.91
		66RB	-40.37	5.15	9.51	14.66	43.00	-28.34

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	56	EUT position	X-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.25	7.00	10.47	17.47	43.00	-25.53
		1RB32	-35.19	7.06	10.47	17.53	43.00	-25.47
		1RB65	-35.13	7.12	10.47	17.59	43.00	-25.41
		66RB	-35.48	6.77	10.47	17.24	43.00	-25.76
2260003	38850.24	1RB0	-35.29	8.37	9.43	17.80	43.00	-25.20
		1RB32	-35.25	8.41	9.43	17.84	43.00	-25.16
		1RB65	-35.18	8.48	9.43	17.91	43.00	-25.09
		66RB	-35.54	8.12	9.43	17.55	43.00	-25.45
2278331	39949.92	1RB0	-37.14	8.38	9.51	17.89	43.00	-25.11
		1RB32	-37.07	8.45	9.51	17.96	43.00	-25.04
		1RB65	-37.00	8.52	9.51	18.03	43.00	-24.97
		66RB	-37.36	8.16	9.51	17.67	43.00	-25.33

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.80	6.45	10.47	16.92	43.00	-26.08
		1RB32	-35.77	6.48	10.47	16.95	43.00	-26.05
		1RB65	-35.70	6.55	10.47	17.02	43.00	-25.98
		66RB	-36.05	6.20	10.47	16.67	43.00	-26.33
2260003	38850.24	1RB0	-35.93	7.73	9.43	17.16	43.00	-25.84
		1RB32	-35.96	7.70	9.43	17.13	43.00	-25.87
		1RB65	-35.89	7.77	9.43	17.20	43.00	-25.80
		66RB	-36.24	7.42	9.43	16.85	43.00	-26.15
2278331	39949.92	1RB0	-37.85	7.67	9.51	17.18	43.00	-25.82
		1RB32	-37.79	7.73	9.51	17.24	43.00	-25.76
		1RB65	-37.73	7.79	9.51	17.30	43.00	-25.70
		66RB	-38.08	7.44	9.51	16.95	43.00	-26.05

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-37.78	4.47	10.47	14.94	43.00	-28.06
		1RB32	-37.75	4.50	10.47	14.97	43.00	-28.03
		1RB65	-37.69	4.56	10.47	15.03	43.00	-27.97
		66RB	-38.02	4.23	10.47	14.70	43.00	-28.30
2260003	38850.24	1RB0	-37.81	5.85	9.43	15.28	43.00	-27.72
		1RB32	-37.85	5.81	9.43	15.24	43.00	-27.76
		1RB65	-37.79	5.87	9.43	15.30	43.00	-27.70
		66RB	-38.12	5.54	9.43	14.97	43.00	-28.03
2278331	39949.92	1RB0	-39.49	6.03	9.51	15.54	43.00	-27.46
		1RB32	-39.51	6.01	9.51	15.52	43.00	-27.48
		1RB65	-39.45	6.07	9.51	15.58	43.00	-27.42
		66RB	-39.78	5.74	9.51	15.25	43.00	-27.75

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	166	EUT position	Y-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-32.58	9.67	10.47	20.14	43.00	-22.86
		1RB32	-32.56	9.69	10.47	20.16	43.00	-22.84
		1RB65	-32.51	9.74	10.47	20.21	43.00	-22.79
		66RB	-32.91	9.34	10.47	19.81	43.00	-23.19
2260003	38850.24	1RB0	-32.56	11.10	9.43	20.53	43.00	-22.47
		1RB32	-32.58	11.08	9.43	20.51	43.00	-22.49
		1RB65	-32.51	11.15	9.43	20.58	43.00	-22.42
		66RB	-32.89	10.77	9.43	20.20	43.00	-22.80
2278331	39949.92	1RB0	-34.59	10.93	9.51	20.44	43.00	-22.56
		1RB32	-34.54	10.98	9.51	20.49	43.00	-22.51
		1RB65	-34.47	11.05	9.51	20.56	43.00	-22.44
		66RB	-34.91	10.61	9.51	20.12	43.00	-22.88

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.54	8.71	10.47	19.18	43.00	-23.82
		1RB32	-33.57	8.68	10.47	19.15	43.00	-23.85
		1RB65	-33.49	8.76	10.47	19.23	43.00	-23.77
		66RB	-33.93	8.32	10.47	18.79	43.00	-24.21
2260003	38850.24	1RB0	-33.63	10.03	9.43	19.46	43.00	-23.54
		1RB32	-33.55	10.11	9.43	19.54	43.00	-23.46
		1RB65	-33.53	10.13	9.43	19.56	43.00	-23.44
		66RB	-33.94	9.72	9.43	19.15	43.00	-23.85
2278331	39949.92	1RB0	-35.61	9.91	9.51	19.42	43.00	-23.58
		1RB32	-35.65	9.87	9.51	19.38	43.00	-23.62
		1RB65	-35.56	9.96	9.51	19.47	43.00	-23.53
		66RB	-36.00	9.52	9.51	19.03	43.00	-23.97

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.46	6.79	10.47	17.26	43.00	-25.74
		1RB32	-35.40	6.85	10.47	17.32	43.00	-25.68
		1RB65	-35.38	6.87	10.47	17.34	43.00	-25.66
		66RB	-35.81	6.44	10.47	16.91	43.00	-26.09
2260003	38850.24	1RB0	-35.58	8.08	9.43	17.51	43.00	-25.49
		1RB32	-35.47	8.19	9.43	17.62	43.00	-25.38
		1RB65	-35.42	8.24	9.43	17.67	43.00	-25.33
		66RB	-35.84	7.82	9.43	17.25	43.00	-25.75
2278331	39949.92	1RB0	-37.54	7.98	9.51	17.49	43.00	-25.51
		1RB32	-37.58	7.94	9.51	17.45	43.00	-25.55
		1RB65	-37.52	8.00	9.51	17.51	43.00	-25.49
		66RB	-37.89	7.63	9.51	17.14	43.00	-25.86

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	175	EUT position	Y-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-32.59	9.66	10.47	20.13	43.00	-22.87
		1RB32	-32.60	9.65	10.47	20.12	43.00	-22.88
		1RB65	-32.53	9.72	10.47	20.19	43.00	-22.81
		66RB	-32.91	9.34	10.47	19.81	43.00	-23.19
2260003	38850.24	1RB0	-32.99	10.67	9.43	20.10	43.00	-22.90
		1RB32	-33.00	10.66	9.43	20.09	43.00	-22.91
		1RB65	-32.92	10.74	9.43	20.17	43.00	-22.83
		66RB	-33.31	10.35	9.43	19.78	43.00	-23.22
2278331	39949.92	1RB0	-34.34	11.18	9.51	20.69	43.00	-22.31
		1RB32	-34.35	11.17	9.51	20.68	43.00	-22.32
		1RB65	-34.27	11.25	9.51	20.76	43.00	-22.24
		66RB	-34.66	10.86	9.51	20.37	43.00	-22.63

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.62	8.63	10.47	19.10	43.00	-23.90
		1RB32	-33.63	8.62	10.47	19.09	43.00	-23.91
		1RB65	-33.55	8.70	10.47	19.17	43.00	-23.83
		66RB	-33.93	8.32	10.47	18.79	43.00	-24.21
2260003	38850.24	1RB0	-34.94	8.72	9.43	18.15	43.00	-24.85
		1RB32	-34.95	8.71	9.43	18.14	43.00	-24.86
		1RB65	-34.88	8.78	9.43	18.21	43.00	-24.79
		66RB	-35.24	8.42	9.43	17.85	43.00	-25.15
2278331	39949.92	1RB0	-34.78	10.74	9.51	20.25	43.00	-22.75
		1RB32	-34.79	10.73	9.51	20.24	43.00	-22.76
		1RB65	-34.71	10.81	9.51	20.32	43.00	-22.68
		66RB	-35.10	10.42	9.51	19.93	43.00	-23.07

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.52	6.73	10.47	17.20	43.00	-25.80
		1RB32	-35.52	6.73	10.47	17.20	43.00	-25.80
		1RB65	-35.46	6.79	10.47	17.26	43.00	-25.74
		66RB	-35.81	6.44	10.47	16.91	43.00	-26.09
2260003	38850.24	1RB0	-36.78	6.88	9.43	16.31	43.00	-26.69
		1RB32	-36.79	6.87	9.43	16.30	43.00	-26.70
		1RB65	-36.73	6.93	9.43	16.36	43.00	-26.64
		66RB	-37.07	6.59	9.43	16.02	43.00	-26.98
2278331	39949.92	1RB0	-36.72	8.80	9.51	18.31	43.00	-24.69
		1RB32	-36.73	8.79	9.51	18.30	43.00	-24.70
		1RB65	-36.66	8.86	9.51	18.37	43.00	-24.63
		66RB	-37.02	8.50	9.51	18.01	43.00	-24.99

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	180	EUT position	Y-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-32.30	9.95	10.47	20.42	43.00	-22.58
		1RB32	-32.32	9.93	10.47	20.40	43.00	-22.60
		1RB65	-32.25	10.00	10.47	20.47	43.00	-22.53
		66RB	-32.58	9.67	10.47	20.14	43.00	-22.86
2260003	38850.24	1RB0	-32.00	11.66	9.43	21.09	43.00	-21.91
		1RB32	-31.98	11.68	9.43	21.11	43.00	-21.89
		1RB65	-31.90	11.76	9.43	21.19	43.00	-21.81
		66RB	-32.21	11.45	9.43	20.88	43.00	-22.12
2278331	39949.92	1RB0	-33.91	11.61	9.51	21.12	43.00	-21.88
		1RB32	-33.94	11.58	9.51	21.09	43.00	-21.91
		1RB65	-33.85	11.67	9.51	21.18	43.00	-21.82
		66RB	-34.23	11.29	9.51	20.80	43.00	-22.20

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.78	8.47	10.47	18.94	43.00	-24.06
		1RB32	-33.79	8.46	10.47	18.93	43.00	-24.07
		1RB65	-33.72	8.53	10.47	19.00	43.00	-24.00
		66RB	-34.09	8.16	10.47	18.63	43.00	-24.37
2260003	38850.24	1RB0	-33.76	9.90	9.43	19.33	43.00	-23.67
		1RB32	-33.77	9.89	9.43	19.32	43.00	-23.68
		1RB65	-33.70	9.96	9.43	19.39	43.00	-23.61
		66RB	-34.07	9.59	9.43	19.02	43.00	-23.98
2278331	39949.92	1RB0	-35.07	10.45	9.51	19.96	43.00	-23.04
		1RB32	-35.08	10.44	9.51	19.95	43.00	-23.05
		1RB65	-35.01	10.51	9.51	20.02	43.00	-22.98
		66RB	-35.39	10.13	9.51	19.64	43.00	-23.36

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.65	6.60	10.47	17.07	43.00	-25.93
		1RB32	-35.66	6.59	10.47	17.06	43.00	-25.94
		1RB65	-35.59	6.66	10.47	17.13	43.00	-25.87
		66RB	-35.94	6.31	10.47	16.78	43.00	-26.22
2260003	38850.24	1RB0	-35.76	7.90	9.43	17.33	43.00	-25.67
		1RB32	-35.76	7.90	9.43	17.33	43.00	-25.67
		1RB65	-35.70	7.96	9.43	17.39	43.00	-25.61
		66RB	-36.05	7.61	9.43	17.04	43.00	-25.96
2278331	39949.92	1RB0	-36.72	8.80	9.51	18.31	43.00	-24.69
		1RB32	-36.73	8.79	9.51	18.30	43.00	-24.70
		1RB65	-36.66	8.86	9.51	18.37	43.00	-24.63
		66RB	-37.02	8.50	9.51	18.01	43.00	-24.99

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	185	EUT position	Y-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-32.39	9.86	10.47	20.33	43.00	-22.67
		1RB32	-32.41	9.84	10.47	20.31	43.00	-22.69
		1RB65	-32.34	9.91	10.47	20.38	43.00	-22.62
		66RB	-32.71	9.54	10.47	20.01	43.00	-22.99
2260003	38850.24	1RB0	-33.05	10.61	9.43	20.04	43.00	-22.96
		1RB32	-33.06	10.60	9.43	20.03	43.00	-22.97
		1RB65	-32.98	10.68	9.43	20.11	43.00	-22.89
		66RB	-33.37	10.29	9.43	19.72	43.00	-23.28
2278331	39949.92	1RB0	-34.93	10.59	9.51	20.10	43.00	-22.90
		1RB32	-34.94	10.58	9.51	20.09	43.00	-22.91
		1RB65	-34.87	10.65	9.51	20.16	43.00	-22.84
		66RB	-35.25	10.27	9.51	19.78	43.00	-23.22

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.48	8.77	10.47	19.24	43.00	-23.76
		1RB32	-33.49	8.76	10.47	19.23	43.00	-23.77
		1RB65	-33.41	8.84	10.47	19.31	43.00	-23.69
		66RB	-33.79	8.46	10.47	18.93	43.00	-24.07
2260003	38850.24	1RB0	-34.10	9.56	9.43	18.99	43.00	-24.01
		1RB32	-34.11	9.55	9.43	18.98	43.00	-24.02
		1RB65	-34.04	9.62	9.43	19.05	43.00	-23.95
		66RB	-34.41	9.25	9.43	18.68	43.00	-24.32
2278331	39949.92	1RB0	-35.85	9.67	9.51	19.18	43.00	-23.82
		1RB32	-35.86	9.66	9.51	19.17	43.00	-23.83
		1RB65	-35.79	9.73	9.51	19.24	43.00	-23.76
		66RB	-36.16	9.36	9.51	18.87	43.00	-24.13

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

64QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.20	7.05	10.47	17.52	43.00	-25.48
		1RB32	-35.21	7.04	10.47	17.51	43.00	-25.49
		1RB65	-35.15	7.10	10.47	17.57	43.00	-25.43
		66RB	-35.50	6.75	10.47	17.22	43.00	-25.78
2260003	38850.24	1RB0	-35.90	7.76	9.43	17.19	43.00	-25.81
		1RB32	-35.90	7.76	9.43	17.19	43.00	-25.81
		1RB65	-35.84	7.82	9.43	17.25	43.00	-25.75
		66RB	-36.19	7.47	9.43	16.90	43.00	-26.10
2278331	39949.92	1RB0	-37.87	7.65	9.51	17.16	43.00	-25.84
		1RB32	-37.88	7.64	9.51	17.15	43.00	-25.85
		1RB65	-37.81	7.71	9.51	17.22	43.00	-25.78
		66RB	-38.16	7.36	9.51	16.87	43.00	-26.13

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	52+180	EUT position	X-plan
Receive Antenna polarization	Vertical		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-32.99	9.26	10.47	19.73	43.00	-23.27
		1RB32	-32.93	9.32	10.47	19.79	43.00	-23.21
		1RB65	-32.87	9.38	10.47	19.85	43.00	-23.15
		66RB	-33.31	8.94	10.47	19.41	43.00	-23.59
2260003	38850.24	1RB0	-31.64	12.02	9.43	21.45	43.00	-21.55
		1RB32	-31.66	12.00	9.43	21.43	43.00	-21.57
		1RB65	-31.57	12.09	9.43	21.52	43.00	-21.48
		66RB	-31.99	11.67	9.43	21.10	43.00	-21.90
2278331	39949.92	1RB0	-34.68	10.84	9.51	20.35	43.00	-22.65
		1RB32	-34.72	10.80	9.51	20.31	43.00	-22.69
		1RB65	-34.64	10.88	9.51	20.39	43.00	-22.61
		66RB	-35.13	10.39	9.51	19.90	43.00	-23.10

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-32.16	10.09	10.47	20.56	43.00	-22.44	51
		1RB32	-32.13	10.12	10.47	20.59	43.00	-22.41	
		1RB65	-32.09	10.16	10.47	20.63	43.00	-22.37	
		66RB	-32.48	9.77	10.47	20.24	43.00	-22.76	
2260003	38850.24	1RB0	-32.06	11.60	9.43	21.03	43.00	-21.97	30
		1RB32	-32.13	11.53	9.43	20.96	43.00	-22.04	
		1RB65	-31.03	12.63	9.43	22.06	43.00	-20.94	
		66RB	-31.45	12.21	9.43	21.64	43.00	-21.36	
2278331	39949.92	1RB0	-34.13	11.39	9.51	20.9	43.00	-22.10	62
		1RB32	-34.14	11.38	9.51	20.89	43.00	-22.11	
		1RB65	-34.10	11.42	9.51	20.93	43.00	-22.07	
		66RB	-34.62	10.90	9.51	20.41	43.00	-22.59	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

16QAM

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-34.03	8.22	10.47	18.69	43.00	-24.31
		1RB32	-34.01	8.24	10.47	18.71	43.00	-24.29
		1RB65	-33.99	8.26	10.47	18.73	43.00	-24.27
		66RB	-34.30	7.95	10.47	18.42	43.00	-24.58
2260003	38850.24	1RB0	-33.98	9.68	9.43	19.11	43.00	-23.89
		1RB32	-33.90	9.76	9.43	19.19	43.00	-23.81
		1RB65	-33.88	9.78	9.43	19.21	43.00	-23.79
		66RB	-33.38	10.28	9.43	19.71	43.00	-23.29
2278331	39949.92	1RB0	-35.77	9.75	9.51	19.26	43.00	-23.74
		1RB32	-35.69	9.83	9.51	19.34	43.00	-23.66
		1RB65	-35.66	9.86	9.51	19.37	43.00	-23.63
		66RB	-36.10	9.42	9.51	18.93	43.00	-24.07

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-33.25	9.00	10.47	19.47	43.00	-23.53	50
		1RB32	-33.26	8.99	10.47	19.46	43.00	-23.54	
		1RB65	-33.15	9.10	10.47	19.57	43.00	-23.43	
		66RB	-33.48	8.77	10.47	19.24	43.00	-23.76	
2260003	38850.24	1RB0	-32.54	11.12	9.43	20.55	43.00	-22.45	35
		1RB32	-32.49	11.17	9.43	20.6	43.00	-22.40	
		1RB65	-32.44	11.22	9.43	20.65	43.00	-22.35	
		66RB	-32.78	10.88	9.43	20.31	43.00	-22.69	
2278331	39949.92	1RB0	-35.32	10.20	9.51	19.71	43.00	-23.29	60
		1RB32	-35.35	10.17	9.51	19.68	43.00	-23.32	
		1RB65	-35.24	10.28	9.51	19.79	43.00	-23.21	
		66RB	-35.59	9.93	9.51	19.44	43.00	-23.56	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

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Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.48	6.77	10.47	17.24	43.00	-25.76
		1RB32	-35.41	6.84	10.47	17.31	43.00	-25.69
		1RB65	-35.33	6.92	10.47	17.39	43.00	-25.61
		66RB	-35.80	6.45	10.47	16.92	43.00	-26.08
2260003	38850.24	1RB0	-34.83	8.83	9.43	18.26	43.00	-24.74
		1RB32	-34.87	8.79	9.43	18.22	43.00	-24.78
		1RB65	-34.80	8.86	9.43	18.29	43.00	-24.71
		66RB	-35.18	8.48	9.43	17.91	43.00	-25.09
2278331	39949.92	1RB0	-37.31	8.21	9.51	17.72	43.00	-25.28
		1RB32	-37.31	8.21	9.51	17.72	43.00	-25.28
		1RB65	-37.24	8.28	9.51	17.79	43.00	-25.21
		66RB	-37.70	7.82	9.51	17.33	43.00	-25.67

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-34.71	7.54	10.47	18.01	43.00	-24.99	45
		1RB32	-34.69	7.56	10.47	18.03	43.00	-24.97	
		1RB65	-34.63	7.62	10.47	18.09	43.00	-24.91	
		66RB	-35.02	7.23	10.47	17.7	43.00	-25.30	
2260003	38850.24	1RB0	-34.27	9.39	9.43	18.82	43.00	-24.18	35
		1RB32	-34.33	9.33	9.43	18.76	43.00	-24.24	
		1RB65	-34.24	9.42	9.43	18.85	43.00	-24.15	
		66RB	-34.58	9.08	9.43	18.51	43.00	-24.49	
2278331	39949.92	1RB0	-36.09	9.43	9.51	18.94	43.00	-24.06	60
		1RB32	-37.01	8.51	9.51	18.02	43.00	-24.98	
		1RB65	-36.94	8.58	9.51	18.09	43.00	-24.91	
		66RB	-37.29	8.23	9.51	17.74	43.00	-25.26	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	52+180	EUT position	Y-plan
Receive Antenna polarization	Horizontal		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-32.09	10.16	10.47	20.63	43.00	-22.37
		1RB32	-32.11	10.14	10.47	20.61	43.00	-22.39
		1RB65	-32.04	10.21	10.47	20.68	43.00	-22.32
		66RB	-32.48	9.77	10.47	20.24	43.00	-22.76
2260003	38850.24	1RB0	-31.53	12.13	9.43	21.56	43.00	-21.44
		1RB32	-31.55	12.11	9.43	21.54	43.00	-21.46
		1RB65	-31.50	12.16	9.43	21.59	43.00	-21.41
		66RB	-32.07	11.59	9.43	21.02	43.00	-21.98
2278331	39949.92	1RB0	-33.95	11.57	9.51	21.08	43.00	-21.92
		1RB32	-33.97	11.55	9.51	21.06	43.00	-21.94
		1RB65	-33.88	11.64	9.51	21.15	43.00	-21.85
		66RB	-34.31	11.21	9.51	20.72	43.00	-22.28

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-31.54	10.71	10.47	21.18	43.00	-21.82	35
		1RB32	-31.49	10.76	10.47	21.23	43.00	-21.77	
		1RB65	-31.45	10.80	10.47	21.27	43.00	-21.73	
		66RB	-31.91	10.34	10.47	20.81	43.00	-22.19	
2260003	38850.24	1RB0	-30.90	12.76	9.43	22.19	43.00	-20.81	50
		1RB32	-30.93	12.73	9.43	22.16	43.00	-20.84	
		1RB65	-30.88	12.78	9.43	22.21	43.00	-20.79	
		66RB	-31.34	12.32	9.43	21.75	43.00	-21.25	
2278331	39949.92	1RB0	-33.71	11.81	9.51	21.32	43.00	-21.68	10
		1RB32	-33.76	11.76	9.51	21.27	43.00	-21.73	
		1RB65	-33.67	11.85	9.51	21.36	43.00	-21.64	
		66RB	-34.12	11.40	9.51	20.91	43.00	-22.09	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

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Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.34	8.91	10.47	19.38	43.00	-23.62
		1RB32	-33.29	8.96	10.47	19.43	43.00	-23.57
		1RB65	-33.26	8.99	10.47	19.46	43.00	-23.54
		66RB	-33.68	8.57	10.47	19.04	43.00	-23.96
2260003	38850.24	1RB0	-32.94	10.72	9.43	20.15	43.00	-22.85
		1RB32	-32.93	10.73	9.43	20.16	43.00	-22.84
		1RB65	-32.87	10.79	9.43	20.22	43.00	-22.78
		66RB	-33.32	10.34	9.43	19.77	43.00	-23.23
2278331	39949.92	1RB0	-35.02	10.50	9.51	20.01	43.00	-22.99
		1RB32	-34.97	10.55	9.51	20.06	43.00	-22.94
		1RB65	-34.94	10.58	9.51	20.09	43.00	-22.91
		66RB	-35.33	10.19	9.51	19.70	43.00	-23.30

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-32.76	9.49	10.47	19.96	43.00	-23.04	35
		1RB32	-32.74	9.51	10.47	19.98	43.00	-23.02	
		1RB65	-32.69	9.56	10.47	20.03	43.00	-22.97	
		66RB	-33.06	9.19	10.47	19.66	43.00	-23.34	
2260003	38850.24	1RB0	-32.28	11.38	9.43	20.81	43.00	-22.19	60
		1RB32	-32.33	11.33	9.43	20.76	43.00	-22.24	
		1RB65	-32.23	11.43	9.43	20.86	43.00	-22.14	
		66RB	-32.66	11.00	9.43	20.43	43.00	-22.57	
2278331	39949.92	1RB0	-34.64	10.88	9.51	20.39	43.00	-22.61	10
		1RB32	-34.65	10.87	9.51	20.38	43.00	-22.62	
		1RB65	-34.57	10.95	9.51	20.46	43.00	-22.54	
		66RB	-35.04	10.48	9.51	19.99	43.00	-23.01	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

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Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.23	7.02	10.47	17.49	43.00	-25.51
		1RB32	-35.21	7.04	10.47	17.51	43.00	-25.49
		1RB65	-35.16	7.09	10.47	17.56	43.00	-25.44
		66RB	-35.58	6.67	10.47	17.14	43.00	-25.86
2260003	38850.24	1RB0	-34.83	8.83	9.43	18.26	43.00	-24.74
		1RB32	-34.81	8.85	9.43	18.28	43.00	-24.72
		1RB65	-34.77	8.89	9.43	18.32	43.00	-24.68
		66RB	-35.21	8.45	9.43	17.88	43.00	-25.12
2278331	39949.92	1RB0	-36.75	8.77	9.51	18.28	43.00	-24.72
		1RB32	-36.72	8.80	9.51	18.31	43.00	-24.69
		1RB65	-36.69	8.83	9.51	18.34	43.00	-24.66
		66RB	-37.13	8.39	9.51	17.90	43.00	-25.10

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-34.60	7.65	10.47	18.12	43.00	-24.88	35
		1RB32	-34.63	7.62	10.47	18.09	43.00	-24.91	
		1RB65	-34.53	7.72	10.47	18.19	43.00	-24.81	
		66RB	-34.96	7.29	10.47	17.76	43.00	-25.24	
2260003	38850.24	1RB0	-34.30	9.36	9.43	18.79	43.00	-24.21	55
		1RB32	-34.37	9.29	9.43	18.72	43.00	-24.28	
		1RB65	-34.21	9.45	9.43	18.88	43.00	-24.12	
		66RB	-34.67	8.99	9.43	18.42	43.00	-24.58	
2278331	39949.92	1RB0	-36.66	8.86	9.51	18.37	43.00	-24.63	60
		1RB32	-36.61	8.91	9.51	18.42	43.00	-24.58	
		1RB65	-36.50	9.02	9.51	18.53	43.00	-24.47	
		66RB	-36.94	8.58	9.51	18.09	43.00	-24.91	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Beam ID	37+166	EUT position	X-plan
Receive Antenna polarization	Vertical		

QPSK

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-32.54	9.71	10.47	20.18	43.00	-22.82
		1RB32	-32.58	9.67	10.47	20.14	43.00	-22.86
		1RB65	-32.53	9.72	10.47	20.19	43.00	-22.81
		66RB	-33.00	9.25	10.47	19.72	43.00	-23.28
2260003	38850.24	1RB0	-33.18	10.48	9.43	19.91	43.00	-23.09
		1RB32	-33.15	10.51	9.43	19.94	43.00	-23.06
		1RB65	-33.06	10.60	9.43	20.03	43.00	-22.97
		66RB	-33.49	10.17	9.43	19.60	43.00	-23.40
2278331	39949.92	1RB0	-34.09	11.43	9.51	20.94	43.00	-22.06
		1RB32	-34.12	11.40	9.51	20.91	43.00	-22.09
		1RB65	-34.06	11.46	9.51	20.97	43.00	-22.03
		66RB	-34.43	11.09	9.51	20.60	43.00	-22.40

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-30.76	11.49	10.47	21.96	43.00	-21.04	39
		1RB32	-30.78	11.47	10.47	21.94	43.00	-21.06	
		1RB65	-30.69	11.56	10.47	22.03	43.00	-20.97	
		66RB	-31.10	11.15	10.47	21.62	43.00	-21.38	
2260003	38850.24	1RB0	-32.38	11.28	9.43	20.71	43.00	-22.29	20
		1RB32	-32.41	11.25	9.43	20.68	43.00	-22.32	
		1RB65	-32.36	11.30	9.43	20.73	43.00	-22.27	
		66RB	-32.80	10.86	9.43	20.29	43.00	-22.71	
2278331	39949.92	1RB0	-33.11	12.41	9.51	21.92	43.00	-21.08	54
		1RB32	-33.07	12.45	9.51	21.96	43.00	-21.04	
		1RB65	-32.94	12.58	9.51	22.09	43.00	-20.91	
		66RB	-33.42	12.10	9.51	21.61	43.00	-21.39	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

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Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-33.27	8.98	10.47	19.45	43.00	-23.55
		1RB32	-33.26	8.99	10.47	19.46	43.00	-23.54
		1RB65	-33.21	9.04	10.47	19.51	43.00	-23.49
		66RB	-33.78	8.47	10.47	18.94	43.00	-24.06
2260003	38850.24	1RB0	-33.90	9.76	9.43	19.19	43.00	-23.81
		1RB32	-33.91	9.75	9.43	19.18	43.00	-23.82
		1RB65	-33.86	9.80	9.43	19.23	43.00	-23.77
		66RB	-34.29	9.37	9.43	18.80	43.00	-24.20
2278331	39949.92	1RB0	-34.84	10.68	9.51	20.19	43.00	-22.81
		1RB32	-34.87	10.65	9.51	20.16	43.00	-22.84
		1RB65	-34.81	10.71	9.51	20.22	43.00	-22.78
		66RB	-35.22	10.30	9.51	19.81	43.00	-23.19

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-31.28	10.97	10.47	21.44	43.00	-21.56	40
		1RB32	-31.23	11.02	10.47	21.49	43.00	-21.51	
		1RB65	-31.19	11.06	10.47	21.53	43.00	-21.47	
		66RB	-31.67	10.58	10.47	21.05	43.00	-21.95	
2260003	38850.24	1RB0	-33.22	10.44	9.43	19.87	43.00	-23.13	25
		1RB32	-33.27	10.39	9.43	19.82	43.00	-23.18	
		1RB65	-33.16	10.50	9.43	19.93	43.00	-23.07	
		66RB	-33.60	10.06	9.43	19.49	43.00	-23.51	
2278331	39949.92	1RB0	-33.47	12.05	9.51	21.56	43.00	-21.44	60
		1RB32	-33.52	12.00	9.51	21.51	43.00	-21.49	
		1RB65	-33.41	12.11	9.51	21.62	43.00	-21.38	
		66RB	-33.88	11.64	9.51	21.15	43.00	-21.85	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

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Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2239991	37649.52	1RB0	-35.18	7.07	10.47	17.54	43.00	-25.46
		1RB32	-35.20	7.05	10.47	17.52	43.00	-25.48
		1RB65	-35.13	7.12	10.47	17.59	43.00	-25.41
		66RB	-35.56	6.69	10.47	17.16	43.00	-25.84
2260003	38850.24	1RB0	-35.80	7.86	9.43	17.29	43.00	-25.71
		1RB32	-35.85	7.81	9.43	17.24	43.00	-25.76
		1RB65	-35.70	7.96	9.43	17.39	43.00	-25.61
		66RB	-36.07	7.59	9.43	17.02	43.00	-25.98
2278331	39949.92	1RB0	-36.72	8.80	9.51	18.31	43.00	-24.69
		1RB32	-36.71	8.81	9.51	18.32	43.00	-24.68
		1RB65	-36.60	8.92	9.51	18.43	43.00	-24.57
		66RB	-37.02	8.50	9.51	18.01	43.00	-24.99

Channel No.	Freq. (MHz)	RB Condition	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna rotating (degree)
2239991	37649.52	1RB0	-33.07	9.18	10.47	19.65	43.00	-23.35	45
		1RB32	-33.06	9.19	10.47	19.66	43.00	-23.34	
		1RB65	-33.00	9.25	10.47	19.72	43.00	-23.28	
		66RB	-33.43	8.82	10.47	19.29	43.00	-23.71	
2260003	38850.24	1RB0	-35.10	8.56	9.43	17.99	43.00	-25.01	30
		1RB32	-35.13	8.53	9.43	17.96	43.00	-25.04	
		1RB65	-35.06	8.60	9.43	18.03	43.00	-24.97	
		66RB	-35.40	8.26	9.43	17.69	43.00	-25.31	
2278331	39949.92	1RB0	-35.39	10.13	9.51	19.64	43.00	-23.36	55
		1RB32	-35.41	10.11	9.51	19.62	43.00	-23.38	
		1RB65	-35.27	10.25	9.51	19.76	43.00	-23.24	
		66RB	-35.68	9.84	9.51	19.35	43.00	-23.65	

Remarks:

1. The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.
2. $EIRP (dBm) = S.G \text{ Value (dBm)} + \text{Correction Factor (dB)}$.
3. $\text{Correction Factor (dB)} = \text{Substitution Antenna Gain (dB)} + \text{Cable Loss (dB)}$.
4. $\text{Spectrum reading (dBm)} = \text{DUT emission amplitude level}$.

Single Beam

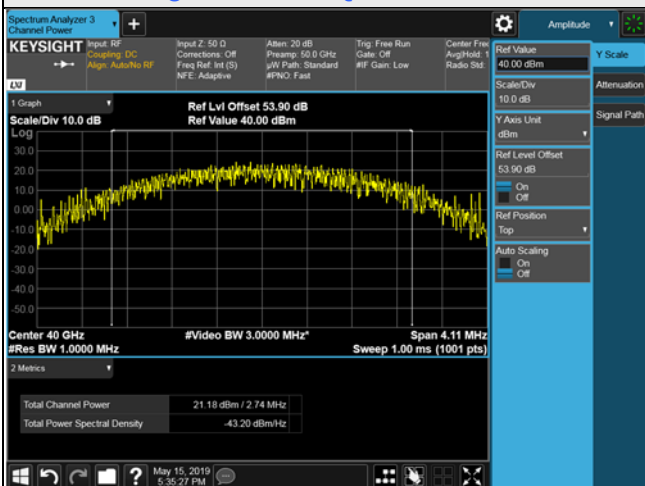
Low Channel / QPSK 1RB_65



Middle Channel / QPSK 1RB_65



High Channel / QPSK 1RB_65

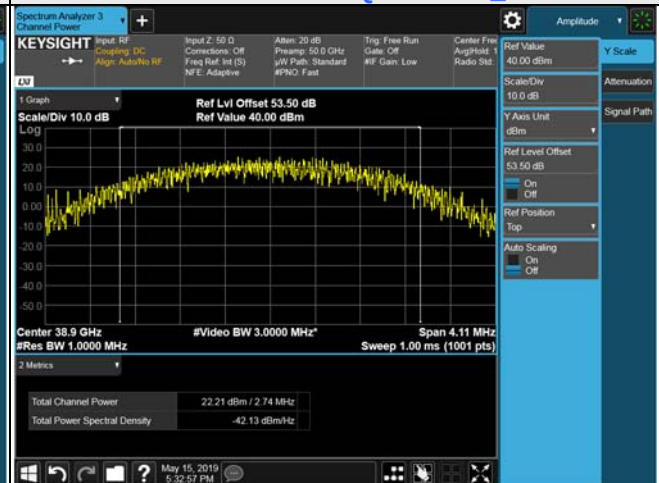


Mimo Beam

Low Channel / QPSK 1RB_65



Middle Channel / QPSK 1RB_65



High Channel / QPSK 1RB_65



4.3 Emission Bandwidth Measurement

4.3.1 Limit of Emission Bandwidth Measurement

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

4.3.2 Test Setup

Refer to section 4.1.2

4.3.3 Test Instruments

Refer to section 4.2.3 to get information of above instrument.

4.3.4 Test Procedure

1. The spectrum analyzer's automatic bandwidth measurement function was used to perform the 99% occupied bandwidth and the 26 dB bandwidth measurement.
2. Set the RBW = 1~5% of the anticipated OBW, and the VBW $\geq 3 \times$ RBW.
3. Set spectrum analyzer detection mode to peak, and the trace mode to max hold
4. Sweep = auto couple
5. Record the test plots and test results.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

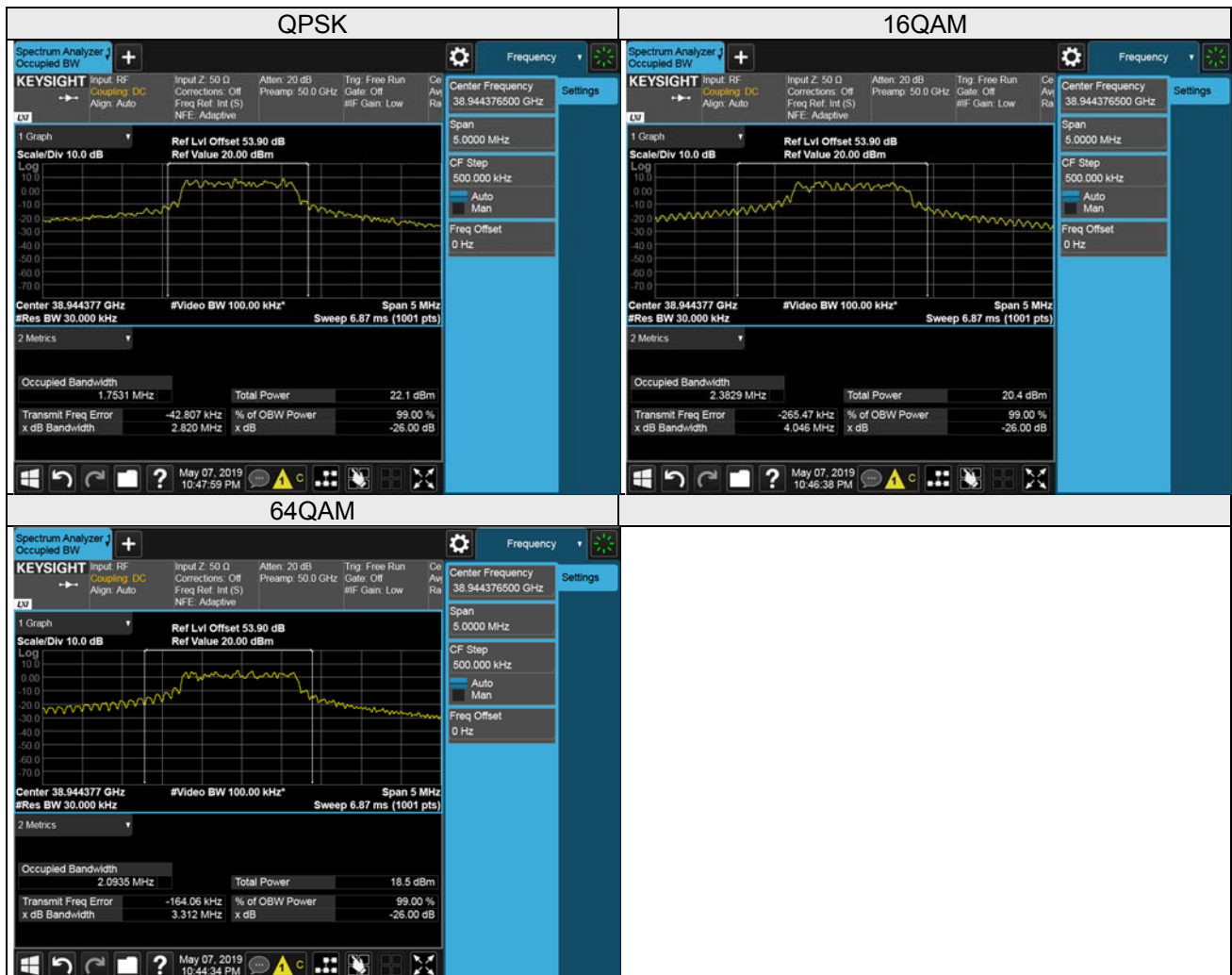
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

1RB / 65RB

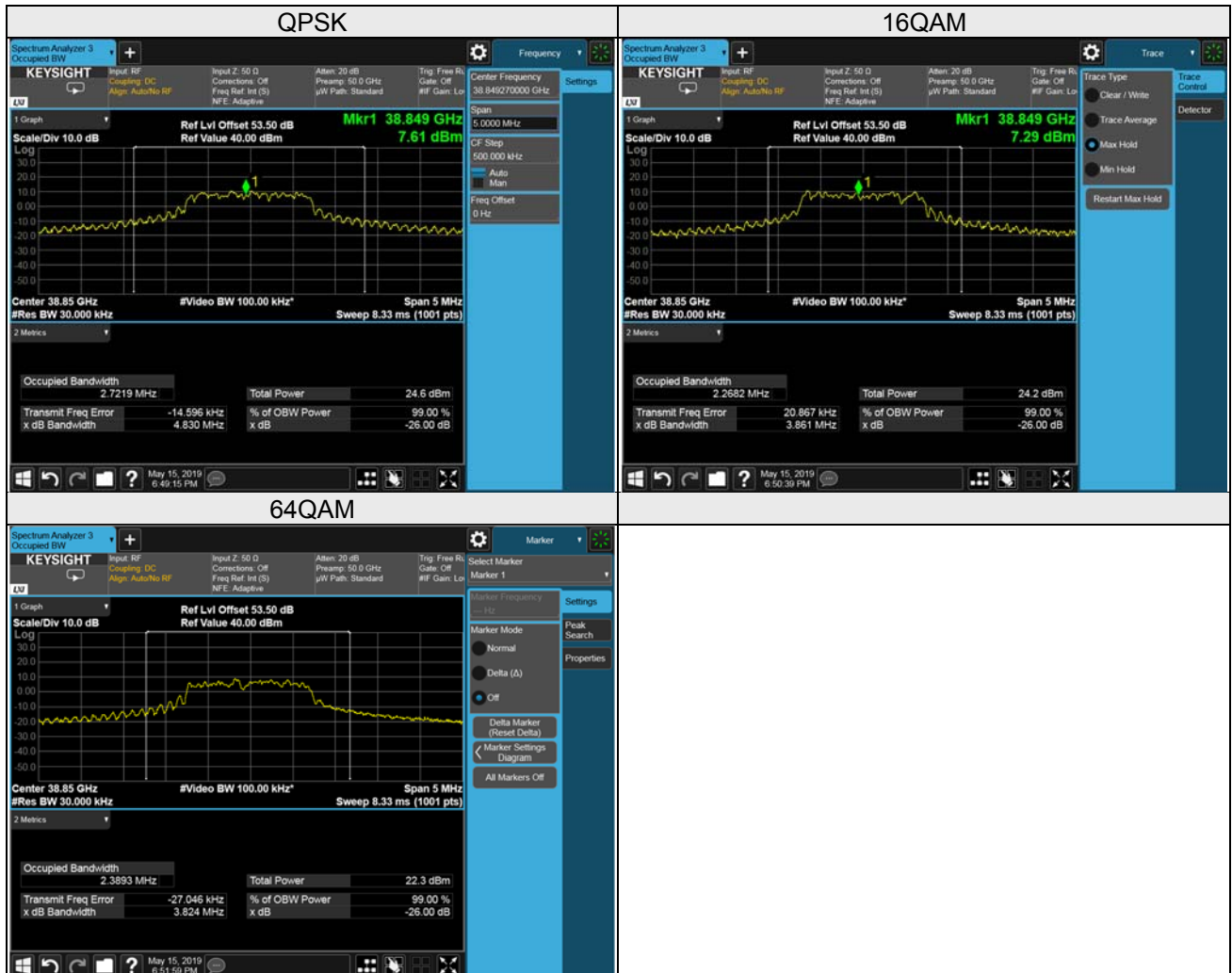
Low Channel

Channel	Freq. (MHz)	Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
2239991	37649.52	1.7531	2.3829	2.0935



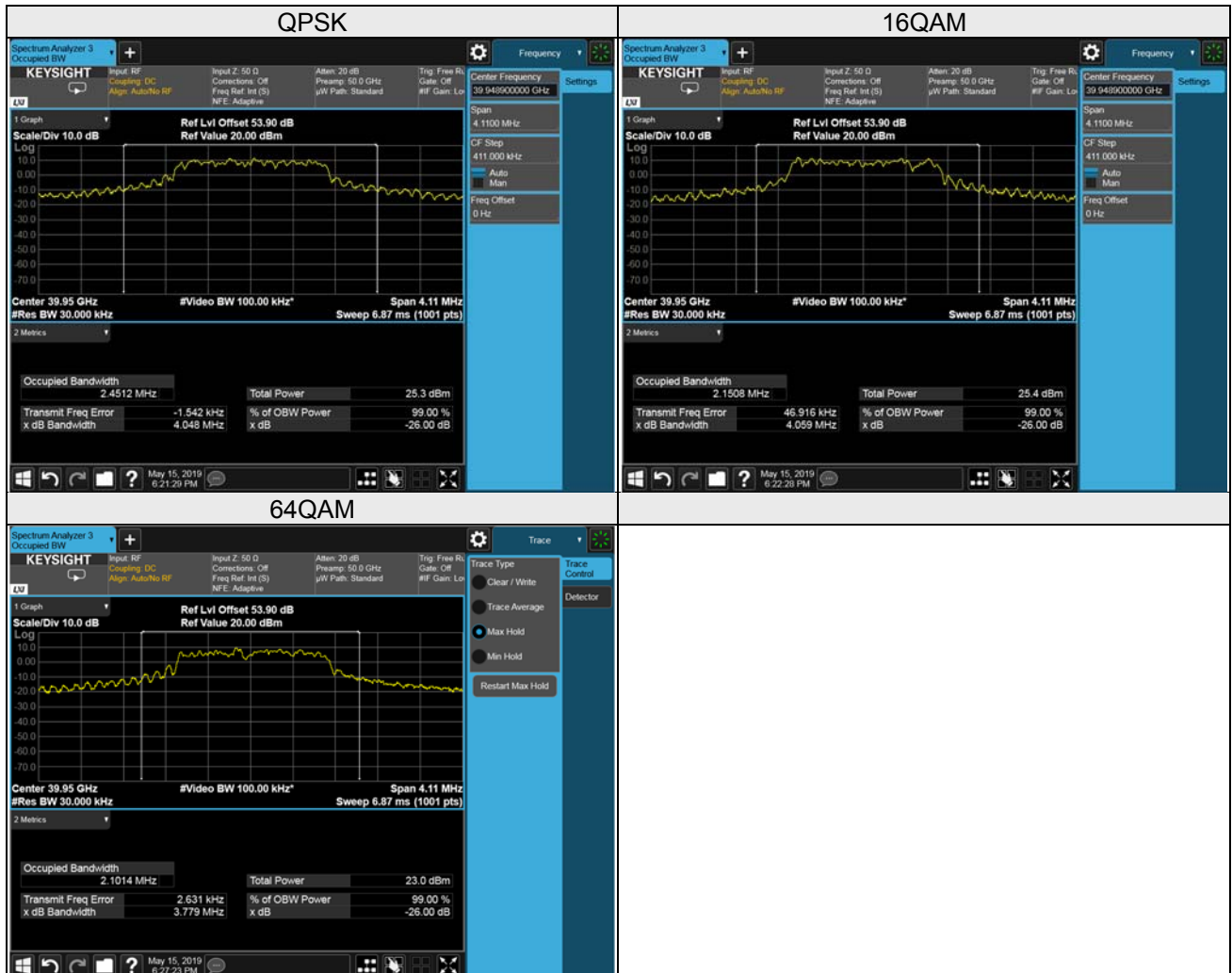
Middle Channel

Channel	Freq. (MHz)	Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
2260003	38850.24	2.7219	2.2682	2.3893



High Channel

Channel	Freq. (MHz)	Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
2278331	39949.92	2.4512	2.1508	2.1014



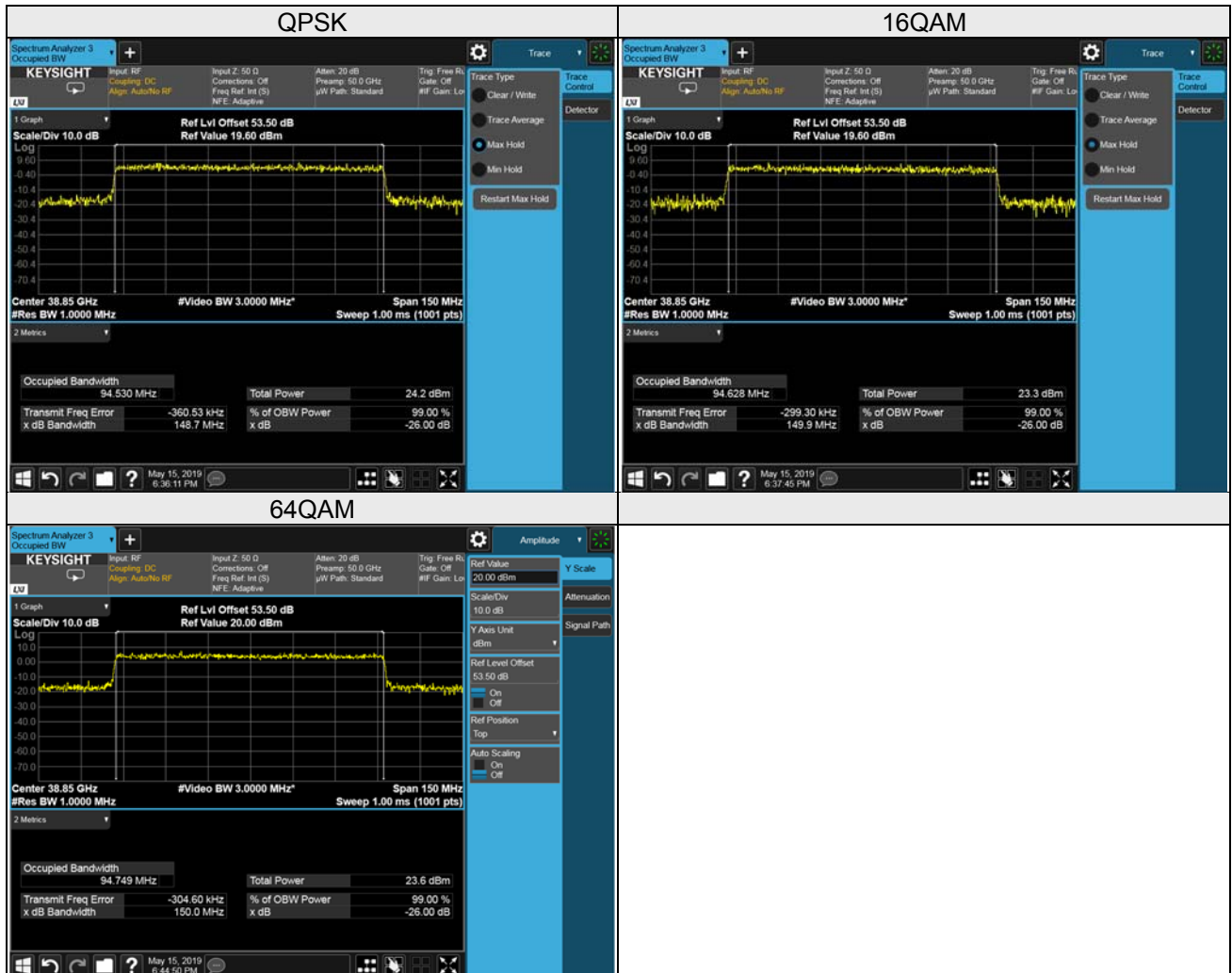
Full RB
Low Channel

Channel	Freq. (MHz)	Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
2239991	37649.52	94.513	94.546	94.473



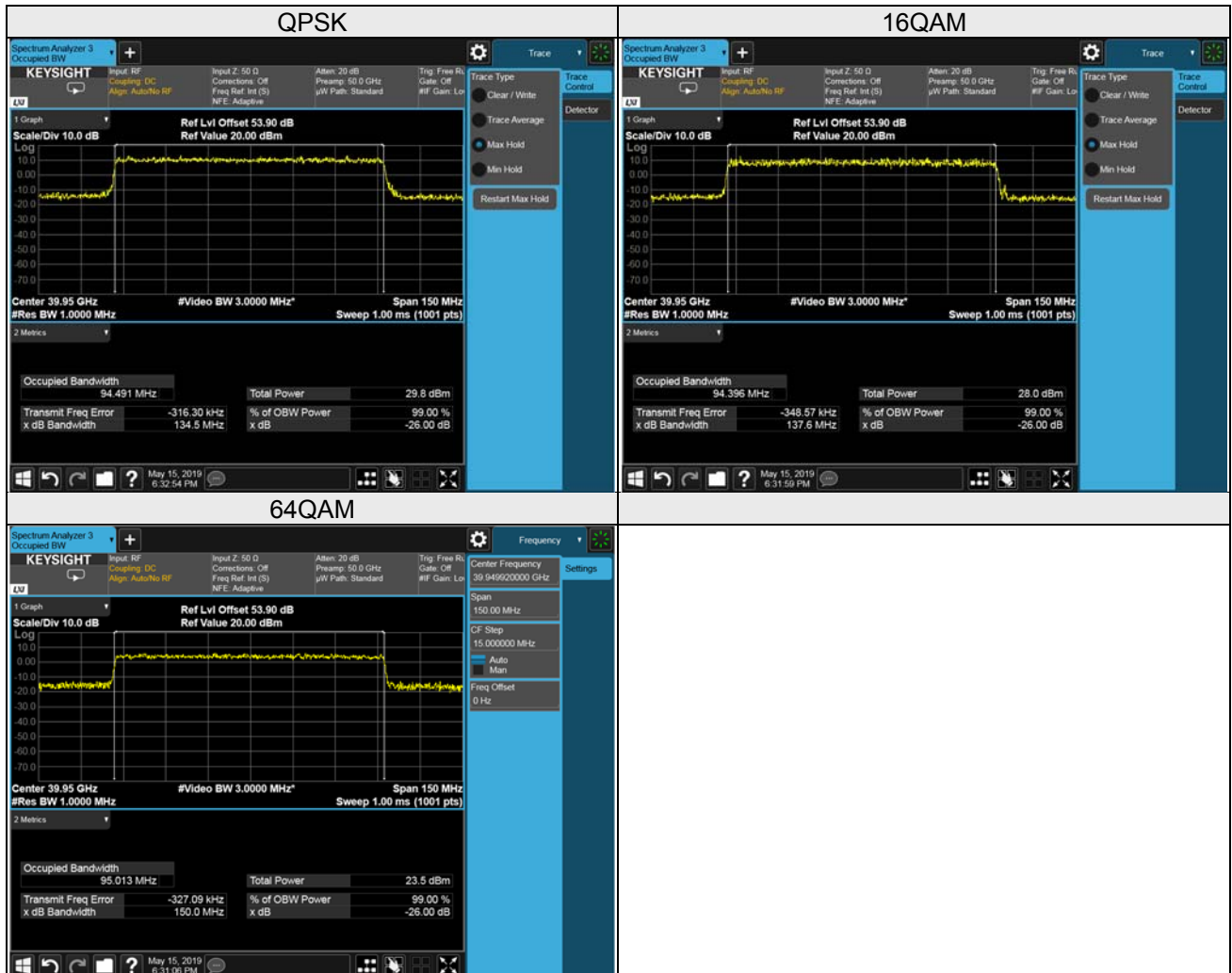
Middle Channel

Channel	Freq. (MHz)	Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
2260003	38850.24	94.530	94.628	94.749



High Channel

Channel	Freq. (MHz)	Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
2278331	39949.92	94.491	94.396	95.013



4.4 Out-of-Band Spurious Emission Measurement

4.4.1 Limits of Out-of-Band Spurious Emission Measurement

The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be -13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm/MHz or lower.

4.4.2 Test Instruments

Refer to section 4.2.3 to get information of above instrument.

4.4.3 Test Procedures

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

Note:

- The resolution bandwidth of spectrum analyzer is 100 kHz and the video bandwidth is 300 kHz for below 1GHz.
- The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for above 1GHz.
- When test frequency below 1GHz the test-receiver detector function was use peak mode during the testing.
- When test frequency above 1GHz the detector function was use RMS (average) mode during the testing.
- Measurements were taken in the far field of the mm-Wave test signal based on the formula:

$$R \geq (2D^2) / \text{wavelength}.$$

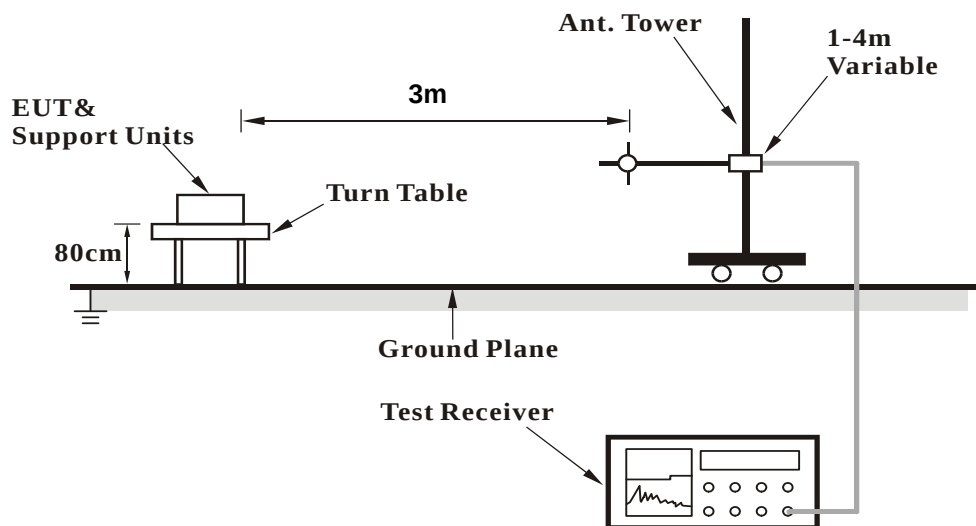
EUT antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
Below 18GHz	0.05m	3m
18GHz to 40GHz	0.3m	1m
40GHz to 200GHz	0.12m to 0.59m	1m
Note: EUT Antenna Dimension is 21mm length, 2.2mm thick and 6.7mm high.		
Measurement antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
40GHz-50GHz	30mm	1m
50GHz-75GHz	25mm	1m
75GHz-110GHz	18mm	1m
110GHz-170GHz	12mm	1m
170GHz-200GHz	8mm	1m

4.4.4 Deviation from Test Standard

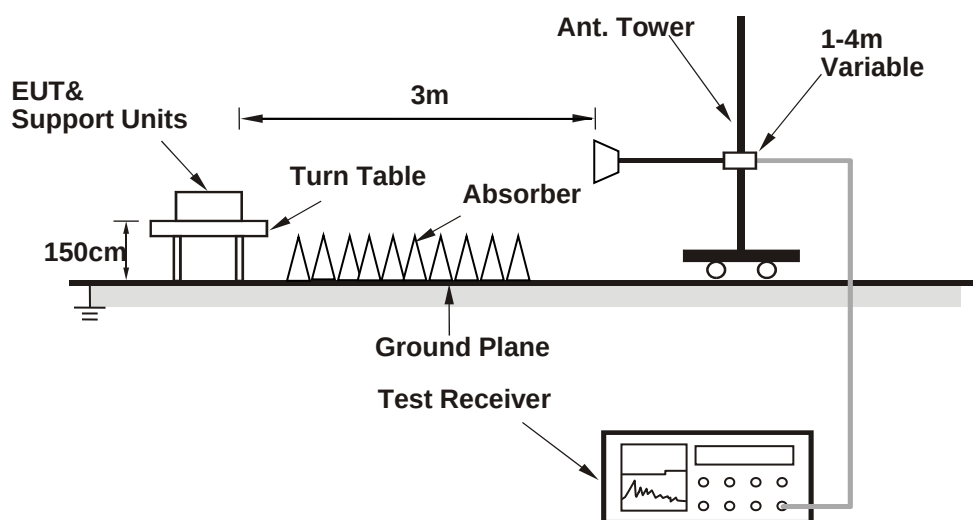
No deviation.

4.4.5 Test Set Up

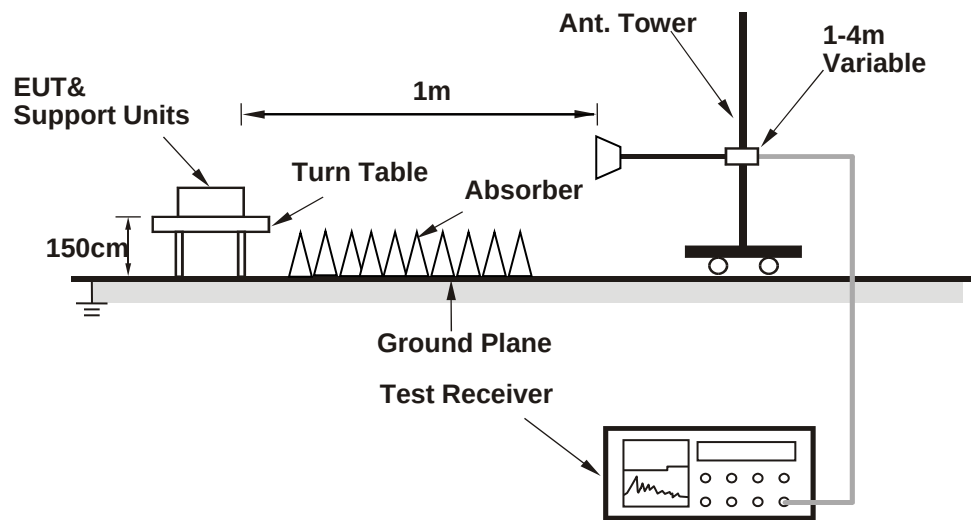
<Frequency Range below 1GHz>



<Frequency Range 1GHz ~ 18GHz>



<Frequency Range above 18GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.4.6 EUT Operating Conditions

- Connected the Adapter to EUT.
- Prepared notebook to act as communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command "PING".

4.4.7 Test Results

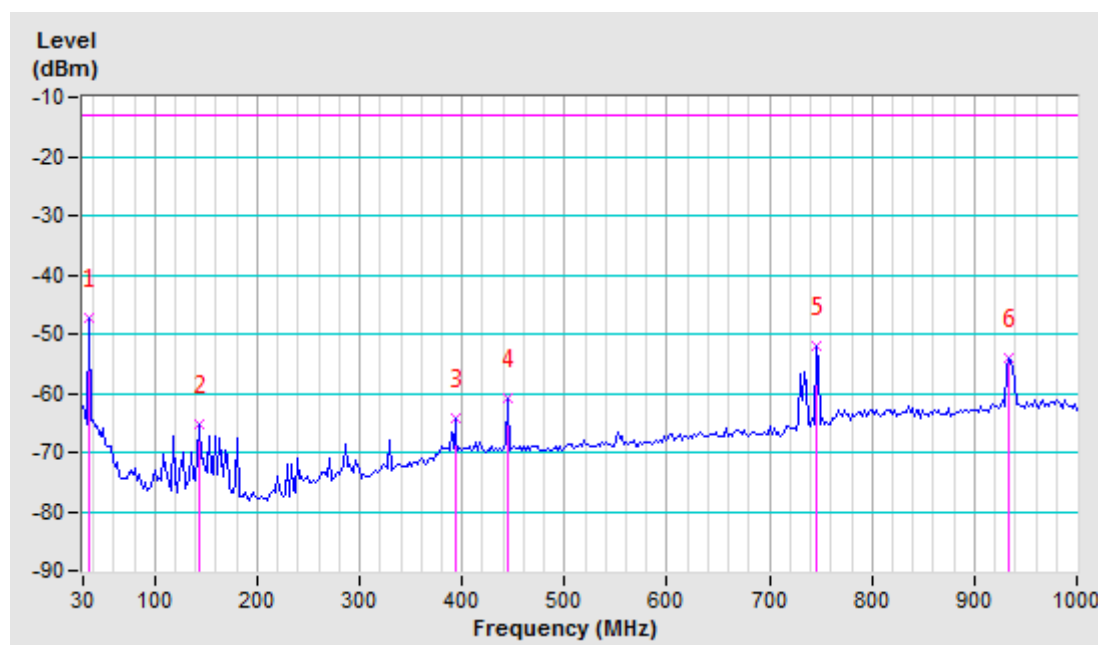
Below 1GHz Data:

Beam ID	180	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-50.5	-35.8	-11.4	-47.2	-13.0	-34.2
2	142.52	-59.8	-64.8	-0.3	-65.1	-13.0	-52.1
3	392.78	-63.3	-69.5	5.2	-64.3	-13.0	-51.3
4	445.16	-59.8	-65.7	5.0	-60.7	-13.0	-47.7
5	745.86	-55.5	-56.6	4.7	-51.9	-13.0	-38.9
6	934.04	-61.0	-57.8	3.9	-53.9	-13.0	-40.9

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

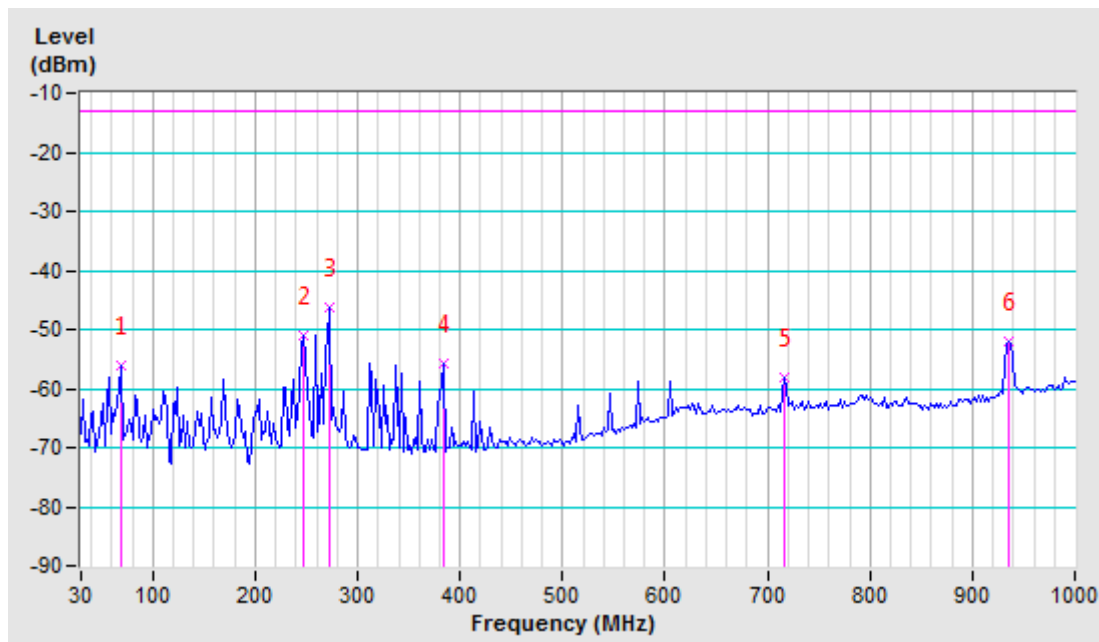


Beam ID	180	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	68.80	-50.0	-50.8	-5.3	-56.1	-13.0	-43.1
2	247.28	-51.4	-56.5	5.4	-51.1	-13.0	-38.1
3	272.50	-49.5	-51.7	5.3	-46.4	-13.0	-33.4
4	383.08	-54.6	-61.2	5.3	-55.9	-13.0	-42.9
5	716.76	-63.6	-63.0	5.0	-58.0	-13.0	-45.0
6	935.98	-60.7	-55.9	3.9	-52.0	-13.0	-39.0

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

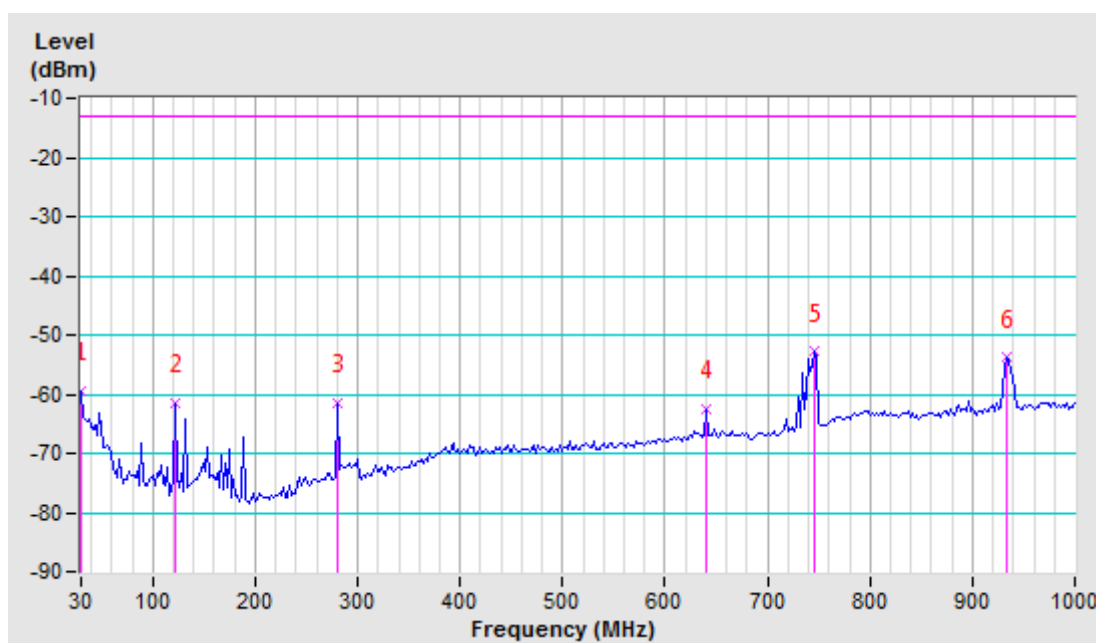


Beam ID	180	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.00	-62.9	-47.3	-12.2	-59.5	-13.0	-46.5
2	121.18	-53.9	-61.5	0.1	-61.4	-13.0	-48.4
3	280.26	-57.1	-66.9	5.3	-61.6	-13.0	-48.6
4	641.10	-63.7	-67.4	4.7	-62.7	-13.0	-49.7
5	745.86	-56.5	-57.6	4.7	-52.9	-13.0	-39.9
6	934.04	-61.0	-57.8	3.9	-53.9	-13.0	-40.9

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

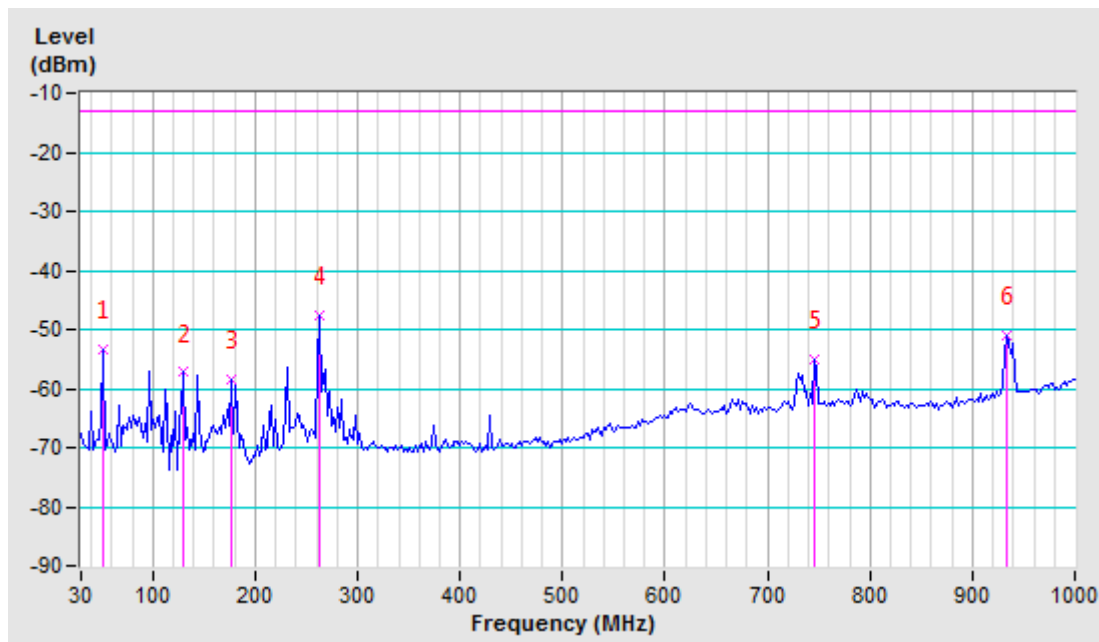


Beam ID	180	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	51.34	-46.7	-44.5	-8.9	-53.4	-13.0	-40.4
2	128.94	-52.0	-57.2	-0.1	-57.3	-13.0	-44.3
3	177.44	-57.7	-61.1	2.6	-58.5	-13.0	-45.5
4	262.80	-49.6	-52.8	5.3	-47.5	-13.0	-34.5
5	745.86	-60.7	-59.8	4.7	-55.1	-13.0	-42.1
6	934.04	-59.8	-55.0	3.9	-51.1	-13.0	-38.1

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

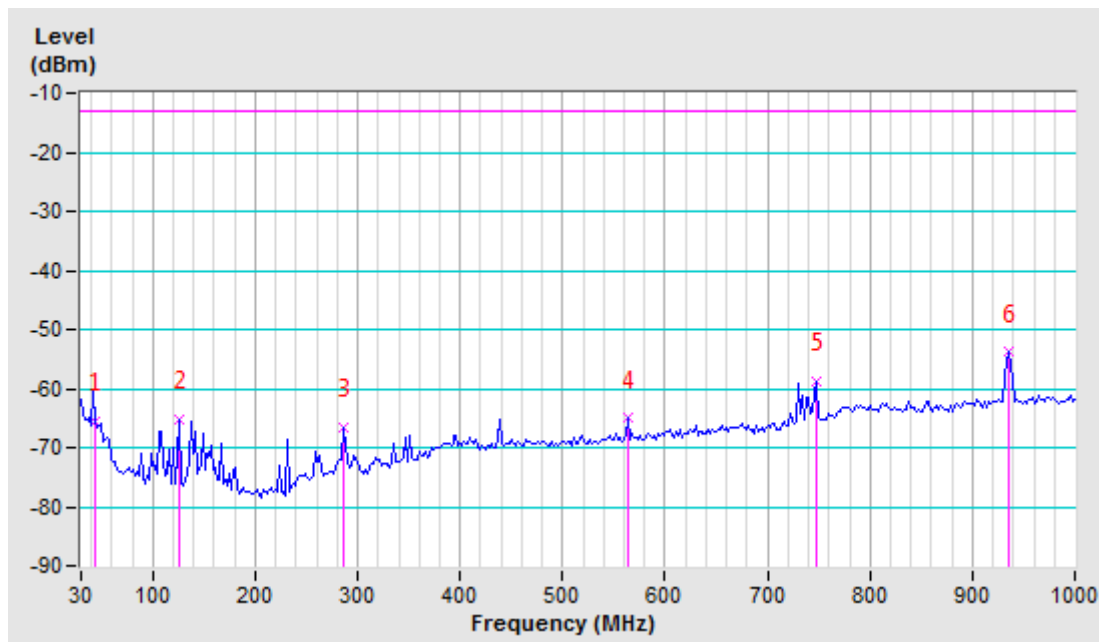


Beam ID	180	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.58	-68.1	-55.3	-10.3	-65.6	-13.0	-52.6
2	125.06	-58.0	-65.1	0.0	-65.1	-13.0	-52.1
3	286.08	-63.1	-71.7	5.2	-66.5	-13.0	-53.5
4	563.50	-64.8	-69.6	4.5	-65.1	-13.0	-52.1
5	747.80	-62.3	-63.4	4.7	-58.7	-13.0	-45.7
6	935.98	-60.9	-57.8	3.9	-53.9	-13.0	-40.9

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

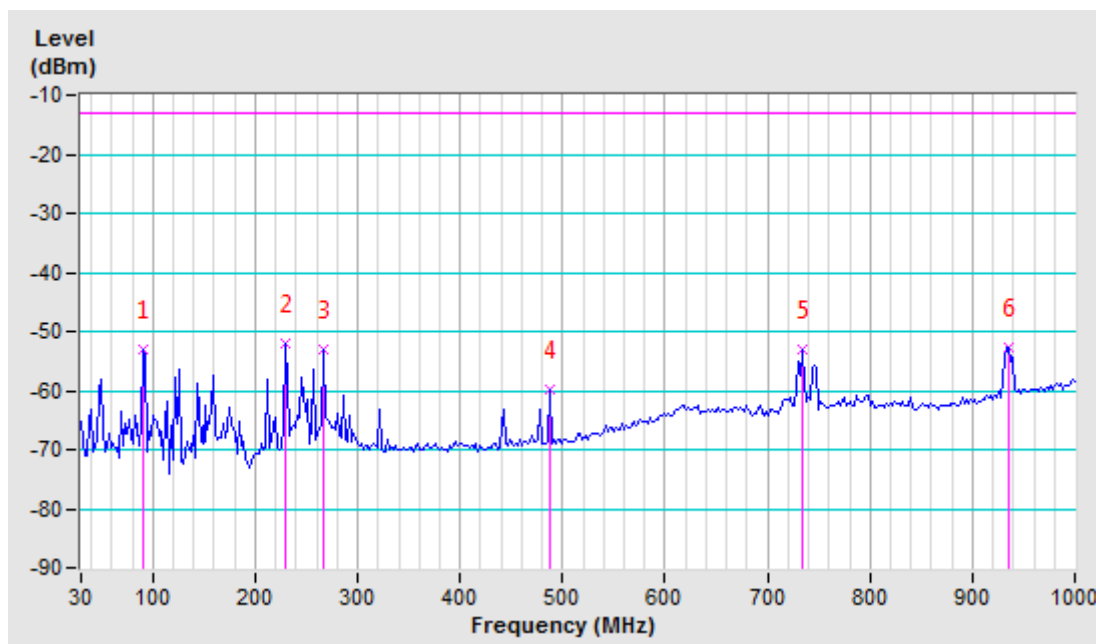


Beam ID	180	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	90.14	-48.2	-54.1	1.1	-53.0	-13.0	-40.0
2	229.82	-50.9	-57.3	5.4	-51.9	-13.0	-38.9
3	266.68	-56.2	-58.5	5.3	-53.2	-13.0	-40.2
4	487.84	-58.5	-64.7	5.0	-59.7	-13.0	-46.7
5	734.22	-58.7	-57.9	4.8	-53.1	-13.0	-40.1
6	935.98	-61.3	-56.5	3.9	-52.6	-13.0	-39.6

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

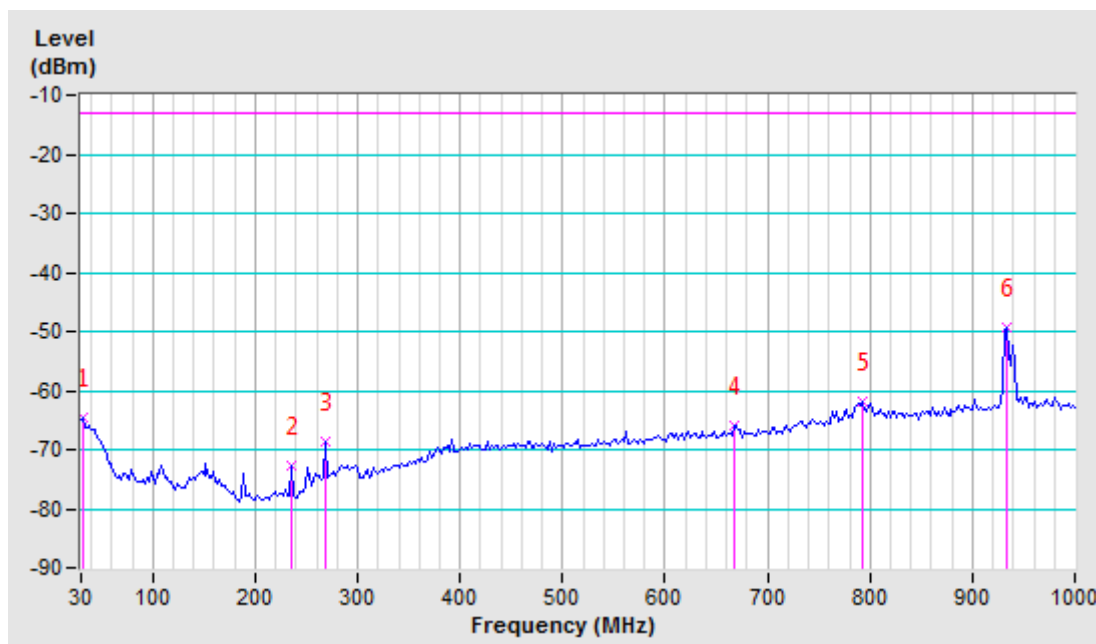


Beam ID	52+180	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	31.94	-68.32	-52.77	-11.93	-64.70	-13.00	-51.70
2	235.64	-64.20	-78.05	5.42	-72.63	-13.00	-59.63
3	268.62	-63.19	-73.87	5.29	-68.58	-13.00	-55.58
4	668.26	-67.58	-70.87	5.00	-65.87	-13.00	-52.87
5	792.42	-67.39	-66.07	4.12	-61.95	-13.00	-48.95
6	934.04	-56.57	-53.39	3.92	-49.47	-13.00	-36.47

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

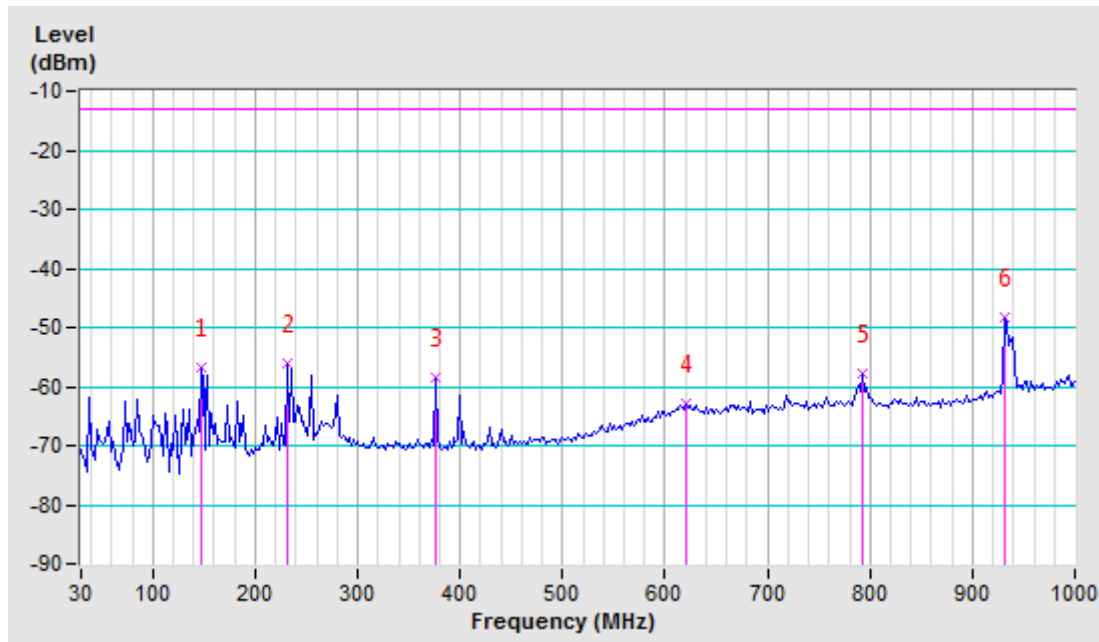


Beam ID	52+180	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	146.40	-54.48	-56.48	-0.22	-56.70	-13.00	-43.70
2	231.76	-55.53	-61.41	5.42	-55.99	-13.00	-42.99
3	375.32	-57.06	-63.59	5.23	-58.36	-13.00	-45.36
4	619.76	-67.94	-67.55	4.60	-62.95	-13.00	-49.95
5	792.42	-64.25	-62.08	4.12	-57.96	-13.00	-44.96
6	932.10	-56.96	-52.37	3.91	-48.46	-13.00	-35.46

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

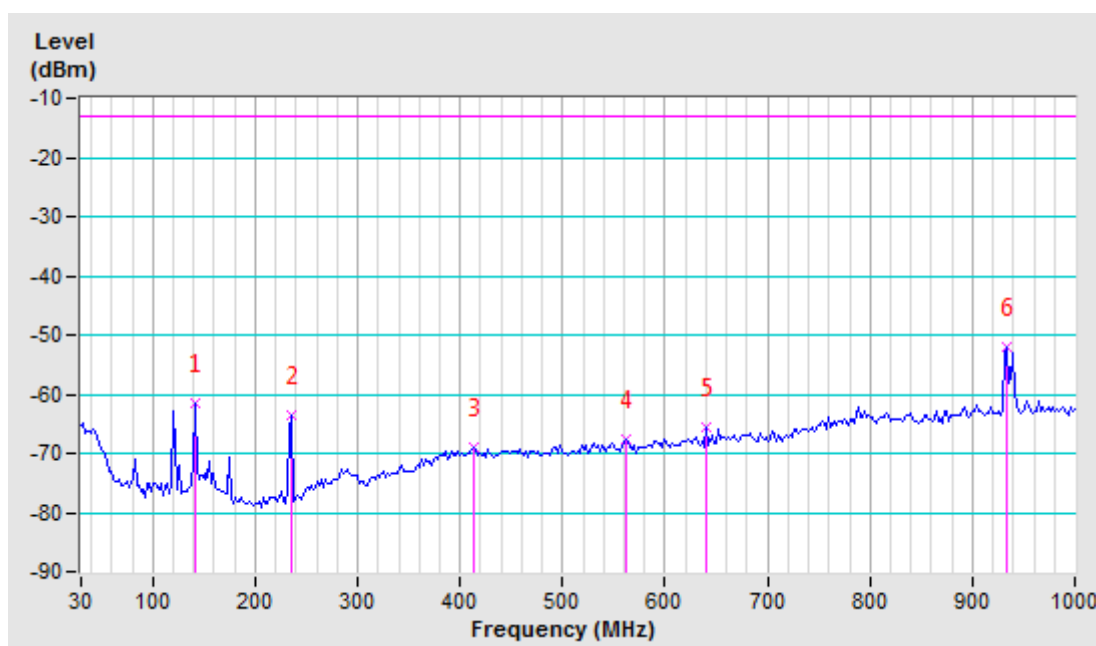


Beam ID	52+180	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	140.58	-55.90	-61.18	-0.31	-61.49	-13.00	-48.49
2	235.64	-55.05	-68.90	5.42	-63.48	-13.00	-50.48
3	414.12	-68.11	-74.27	5.23	-69.04	-13.00	-56.04
4	561.56	-67.41	-72.32	4.61	-67.71	-13.00	-54.71
5	641.10	-66.73	-70.48	4.77	-65.71	-13.00	-52.71
6	934.04	-59.24	-56.06	3.92	-52.14	-13.00	-39.14

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

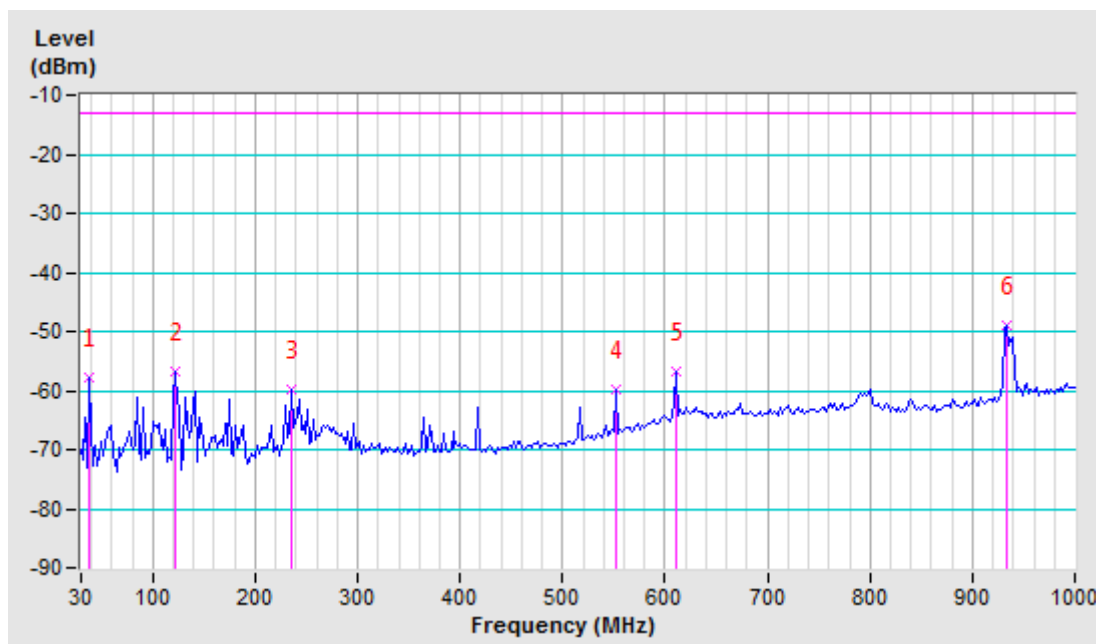


Beam ID	52+180	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	37.76	-49.36	-46.65	-11.18	-57.83	-13.00	-44.83
2	121.18	-50.53	-56.85	0.05	-56.80	-13.00	-43.80
3	235.64	-60.14	-65.24	5.42	-59.82	-13.00	-46.82
4	551.86	-61.15	-64.51	4.62	-59.89	-13.00	-46.89
5	610.06	-61.31	-61.32	4.50	-56.82	-13.00	-43.82
6	934.04	-57.52	-52.76	3.92	-48.84	-13.00	-35.84

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

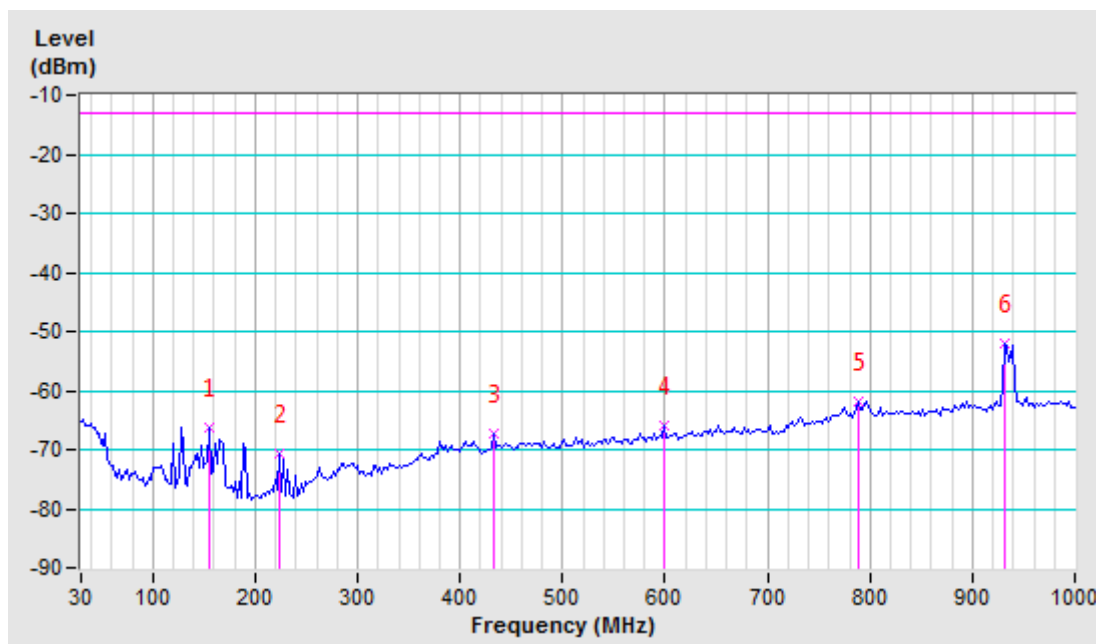


Beam ID	52+180	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	156.10	-61.29	-66.49	0.17	-66.32	-13.00	-53.32
2	224.00	-62.44	-76.03	5.44	-70.59	-13.00	-57.59
3	433.52	-66.04	-72.52	5.14	-67.38	-13.00	-54.38
4	598.42	-66.51	-70.53	4.44	-66.09	-13.00	-53.09
5	788.54	-67.28	-66.07	4.17	-61.90	-13.00	-48.90
6	932.10	-58.95	-55.81	3.91	-51.90	-13.00	-38.90

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

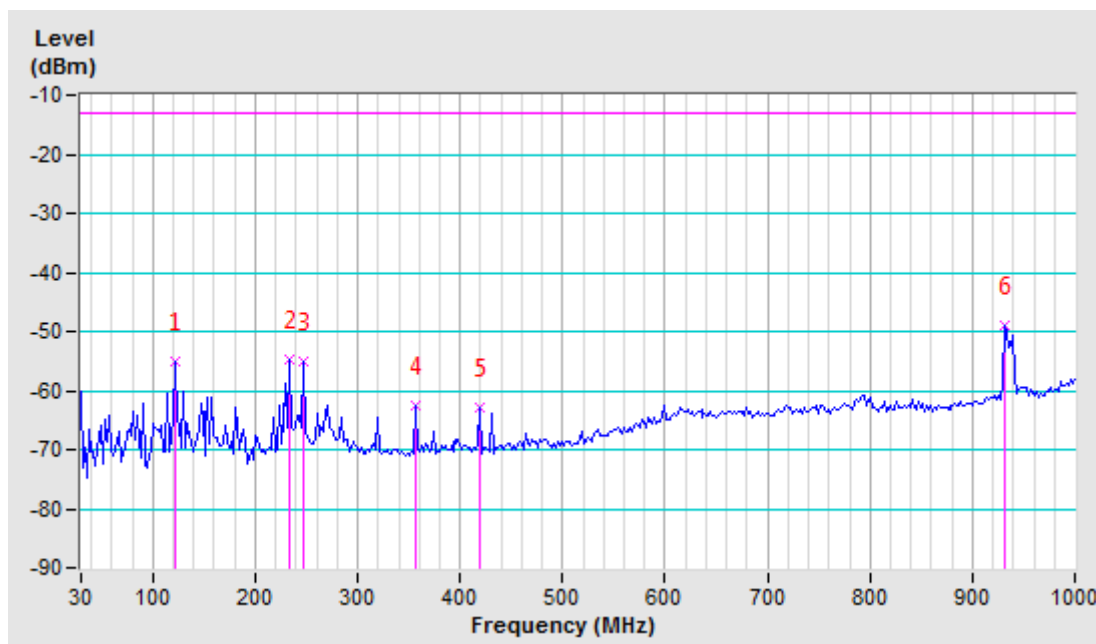


Beam ID	52+180	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	121.18	-48.95	-55.27	0.05	-55.22	-13.00	-42.22
2	233.70	-54.74	-60.20	5.42	-54.78	-13.00	-41.78
3	247.28	-55.40	-60.51	5.41	-55.10	-13.00	-42.10
4	355.92	-61.22	-67.74	5.22	-62.52	-13.00	-49.52
5	419.94	-61.45	-68.20	5.21	-62.99	-13.00	-49.99
6	932.10	-57.43	-52.84	3.91	-48.93	-13.00	-35.93

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.



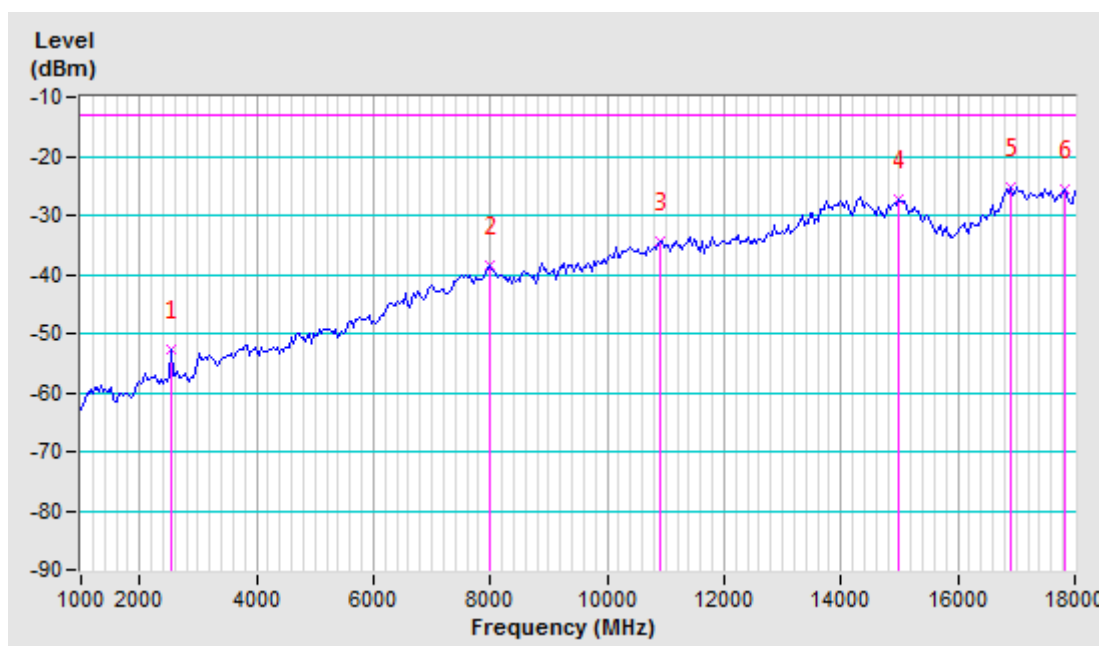
Above 1GHz Data:

Beam ID	180	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2530.00	-61.7	-59.2	6.4	-52.8	-13.0	-39.8
2	8004.00	-64.0	-42.6	4.0	-38.6	-13.0	-25.6
3	10894.00	-65.0	-36.7	2.3	-34.4	-13.0	-21.4
4	14974.00	-61.3	-30.5	3.1	-27.4	-13.0	-14.4
5	16912.00	-61.1	-28.4	3.1	-25.3	-13.0	-12.3
6	17830.00	-63.4	-22.5	-3.1	-25.6	-13.0	-12.6

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

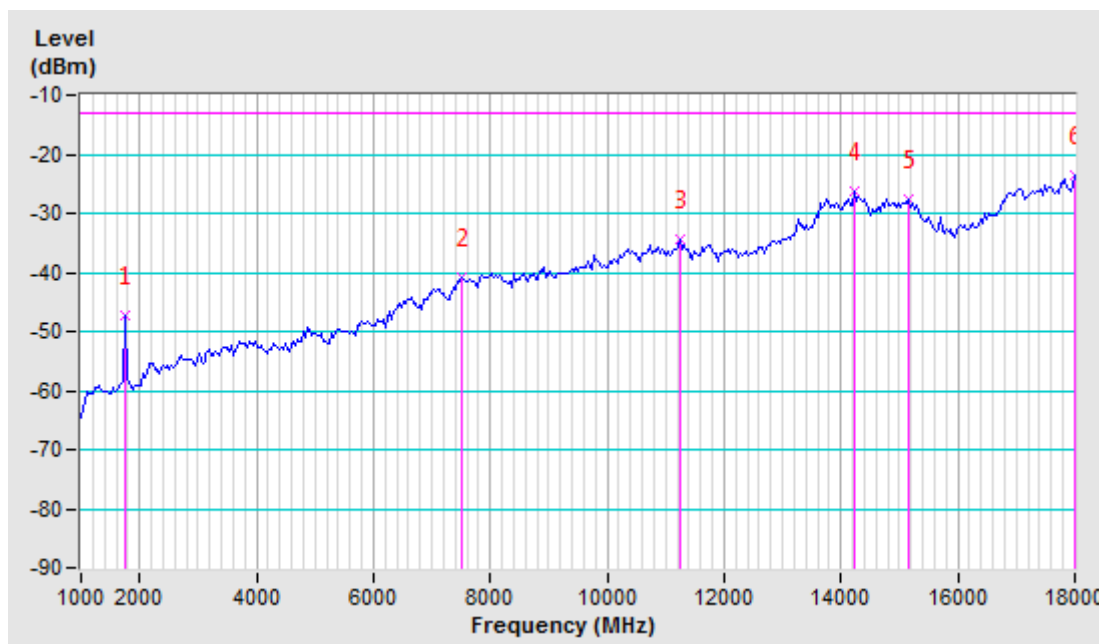


Beam ID	180	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1748.00	-54.7	-53.1	5.7	-47.4	-13.0	-34.4
2	7528.00	-65.3	-45.1	4.2	-40.9	-13.0	-27.9
3	11234.00	-65.4	-36.6	2.2	-34.4	-13.0	-21.4
4	14226.0	-62.2	-27.8	1.5	-26.3	-13.0	-13.3
5	15144.00	-61.5	-31.4	3.9	-27.5	-13.0	-14.5
6	18000.00	-63.8	-18.5	-5.1	-23.6	-13.0	-10.6

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

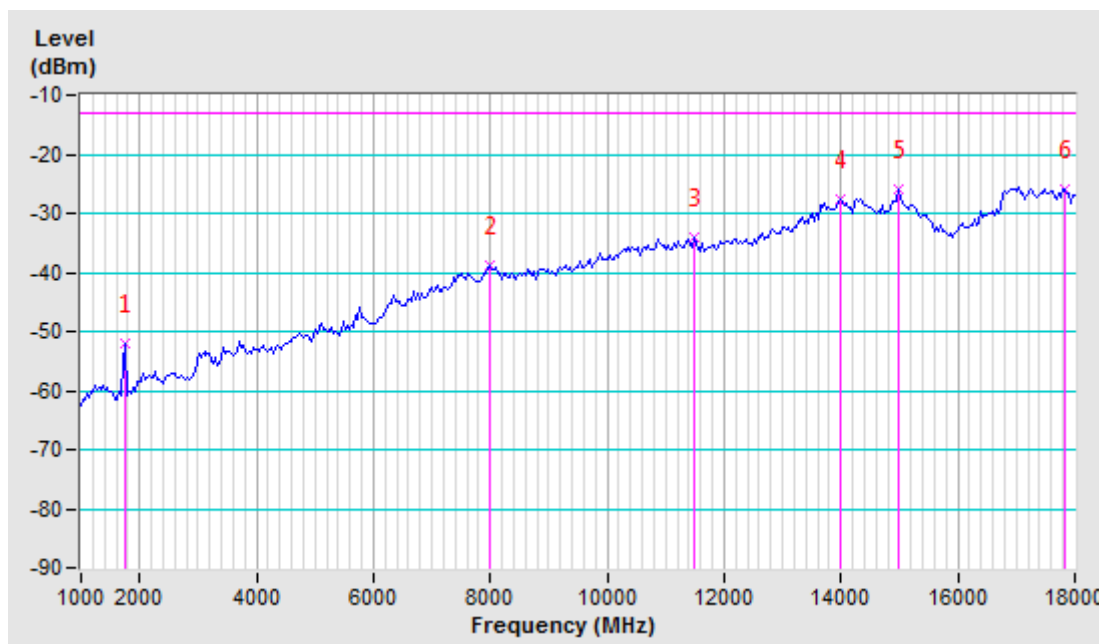


Beam ID	180	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1748.00	-57.2	-57.8	5.7	-52.1	-13.0	-39.1
2	8004.00	-64.1	-42.7	4.0	-38.7	-13.0	-25.7
3	11472.00	-65.4	-36.5	2.4	-34.1	-13.0	-21.1
4	13988.00	-62.5	-29.3	1.6	-27.7	-13.0	-14.7
5	14974.00	-59.7	-28.9	3.1	-25.8	-13.0	-12.8
6	17830.00	-63.6	-22.7	-3.1	-25.8	-13.0	-12.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

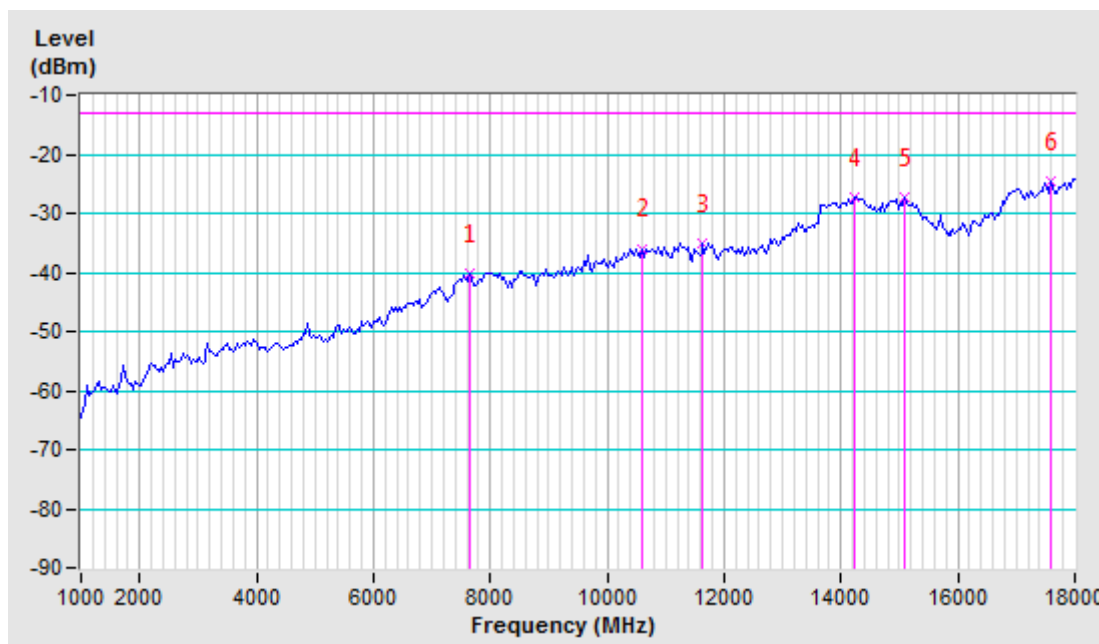


Beam ID	180	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	7664.00	-64.3	-44.4	4.2	-40.2	-13.0	-27.2
2	10588.00	-65.0	-38.6	2.7	-35.9	-13.0	-22.9
3	11642.00	-65.5	-37.8	2.7	-35.1	-13.0	-22.1
4	14226.00	-63.2	-28.8	1.5	-27.3	-13.0	-14.3
5	15076.00	-61.0	-30.8	3.5	-27.3	-13.0	-14.3
6	17592.00	-62.5	-24.2	-0.4	-24.6	-13.0	-11.6

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

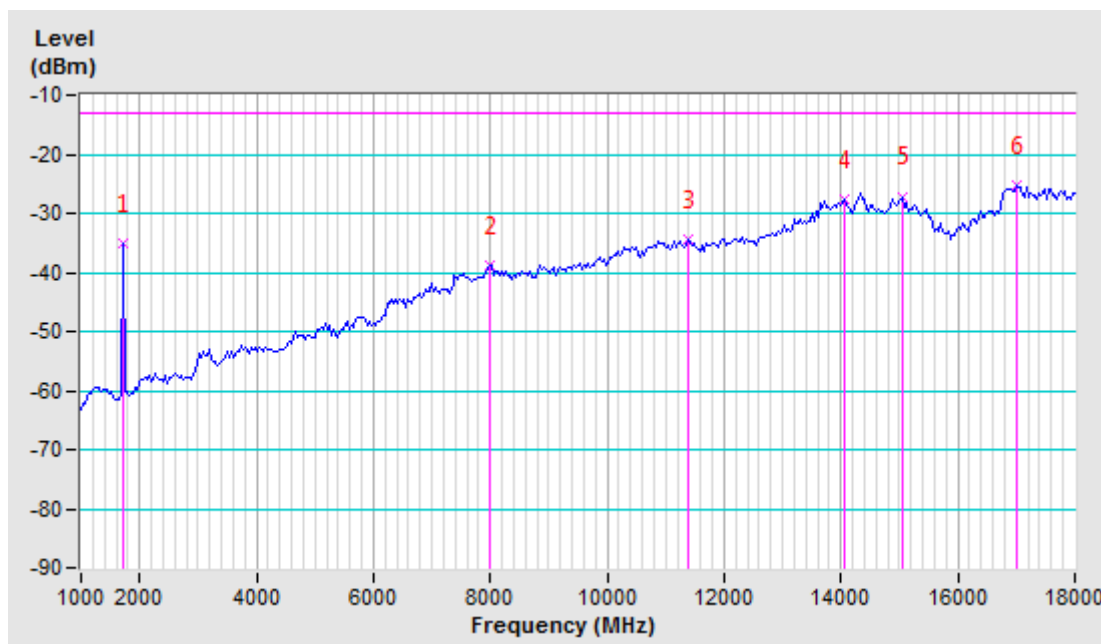


Beam ID	180	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1714.00	-40.2	-40.8	5.6	-35.2	-13.0	-22.2
2	8004.00	-64.2	-42.8	4.0	-38.8	-13.0	-25.8
3	11370.00	-65.6	-36.8	2.4	-34.4	-13.0	-21.4
4	14056.00	-62.4	-29.2	1.6	-27.6	-13.0	-14.6
5	15042.00	-60.7	-30.4	3.3	-27.1	-13.0	-14.1
6	17014.00	-61.3	-27.9	2.5	-25.4	-13.0	-12.4

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

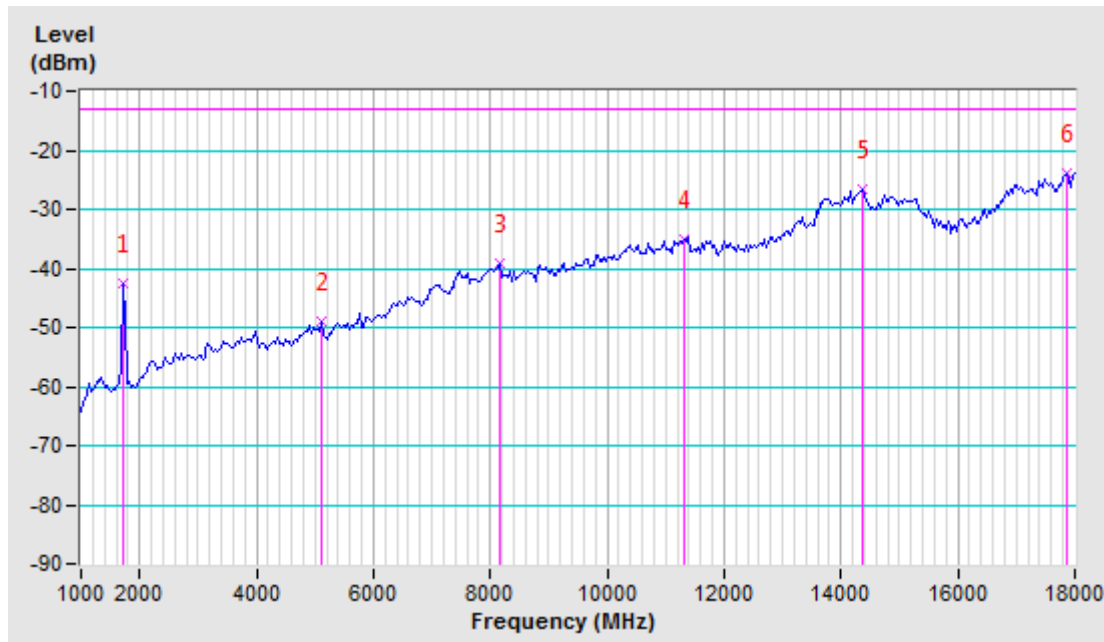


Beam ID	180	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1714.00	-50.0	-48.3	5.6	-42.7	-13.0	-29.7
2	5114.00	-66.2	-55.5	6.6	-48.9	-13.0	-35.9
3	8174.00	-63.9	-43.5	4.3	-39.2	-13.0	-26.2
4	11302.00	-66.3	-37.4	2.2	-35.2	-13.0	-22.2
5	14362.00	-62.5	-28.1	1.5	-26.6	-13.0	-13.6
6	17864.00	-63.3	-20.3	-3.5	-23.8	-13.0	-10.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

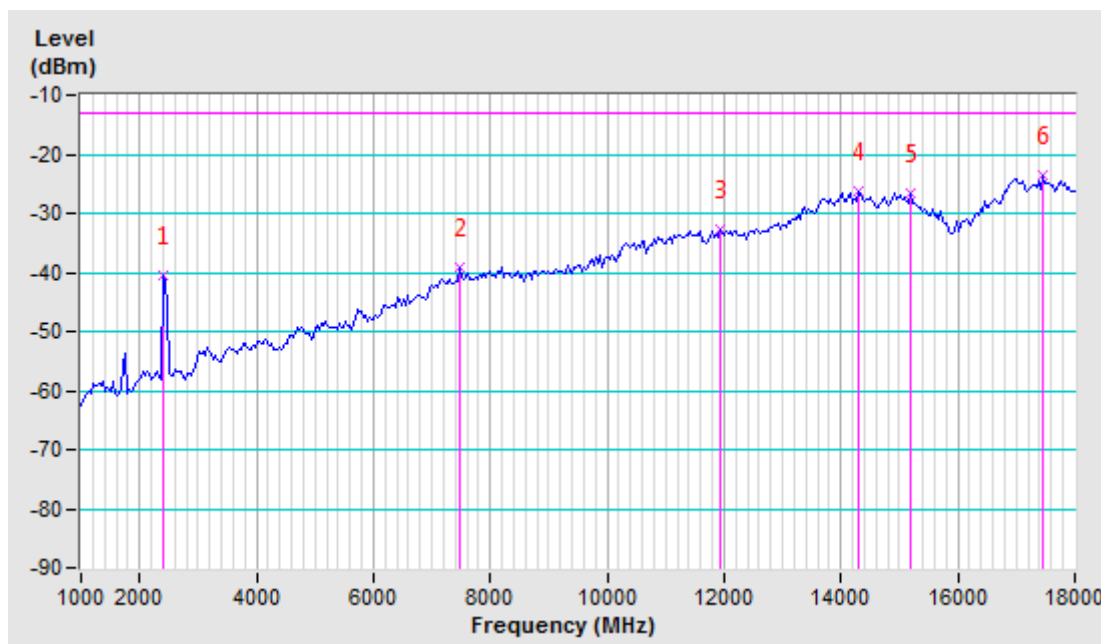


Beam ID	52+180	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2394.00	-48.4	-46.9	6.4	-40.5	-13.0	-27.5
2	7494.00	-63.8	-43.2	4.2	-39.0	-13.0	-26.0
3	11948.00	-63.7	-36.2	3.4	-32.8	-13.0	-19.8
4	14294.00	-61.4	-27.6	1.4	-26.2	-13.0	-13.2
5	15178.00	-60.0	-30.6	4.1	-26.5	-13.0	-13.5
6	17456.00	-60.2	-24.1	0.7	-23.4	-13.0	-10.4

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

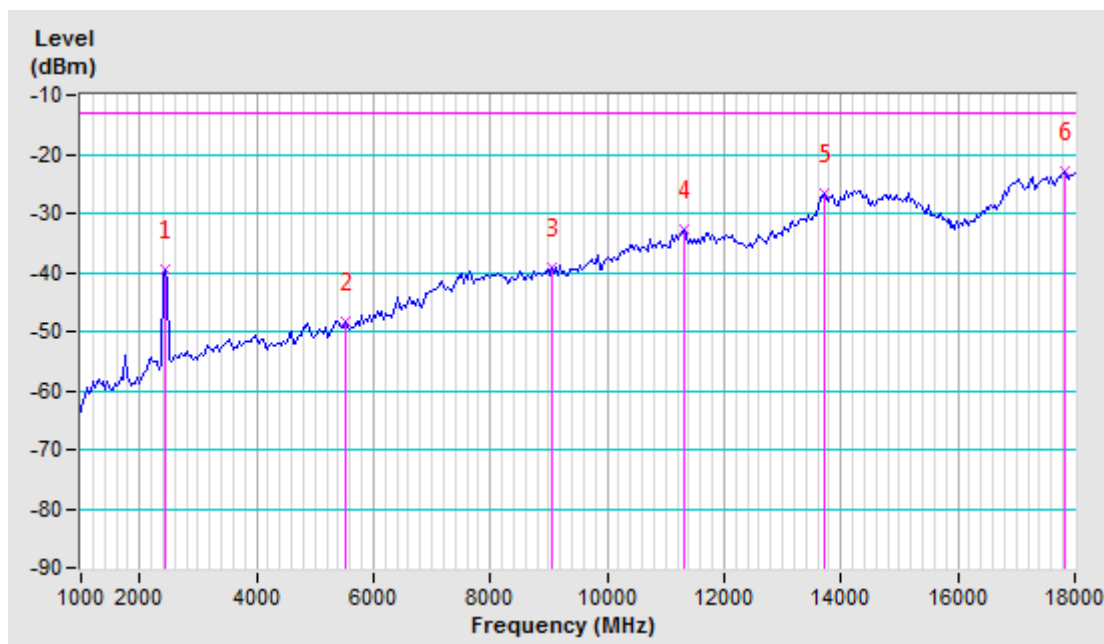


Beam ID	52+180	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2428.00	-50.1	-45.8	6.4	-39.4	-13.0	-26.4
2	5522.00	-66.5	-55.1	6.8	-48.3	-13.0	-35.3
3	9058.00	-64.8	-43.7	4.5	-39.2	-13.0	-26.2
4	11302.00	-63.9	-35.0	2.2	-32.8	-13.0	-19.8
5	13716.00	-62.2	-28.9	2.3	-26.6	-13.0	-13.6
6	17830.00	-62.5	-19.8	-3.1	-22.9	-13.0	-9.9

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

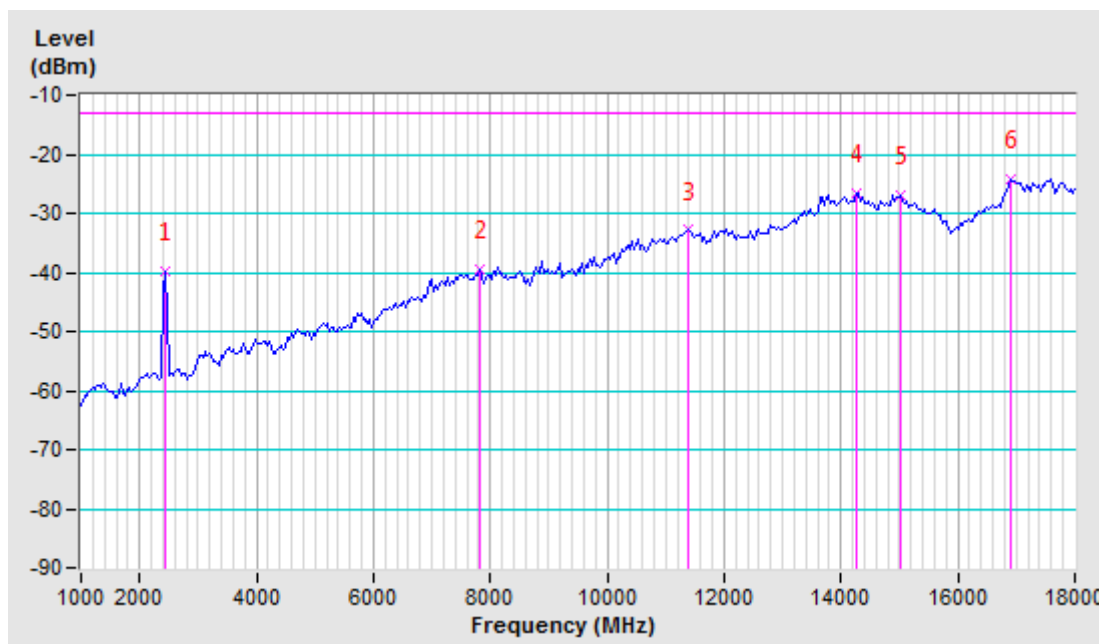


Beam ID	52+180	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2428.00	-48.0	-46.2	6.4	-39.8	-13.0	-26.8
2	7834.00	-64.2	-43.6	4.1	-39.5	-13.0	-26.5
3	11370.00	-64.1	-35.3	2.4	-32.9	-13.0	-19.9
4	14260.00	-61.6	-28.2	1.5	-26.7	-13.0	-13.7
5	15008.00	-60.8	-30.1	3.2	-26.9	-13.0	-13.9
6	16912.00	-59.9	-27.2	3.1	-24.1	-13.0	-11.1

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

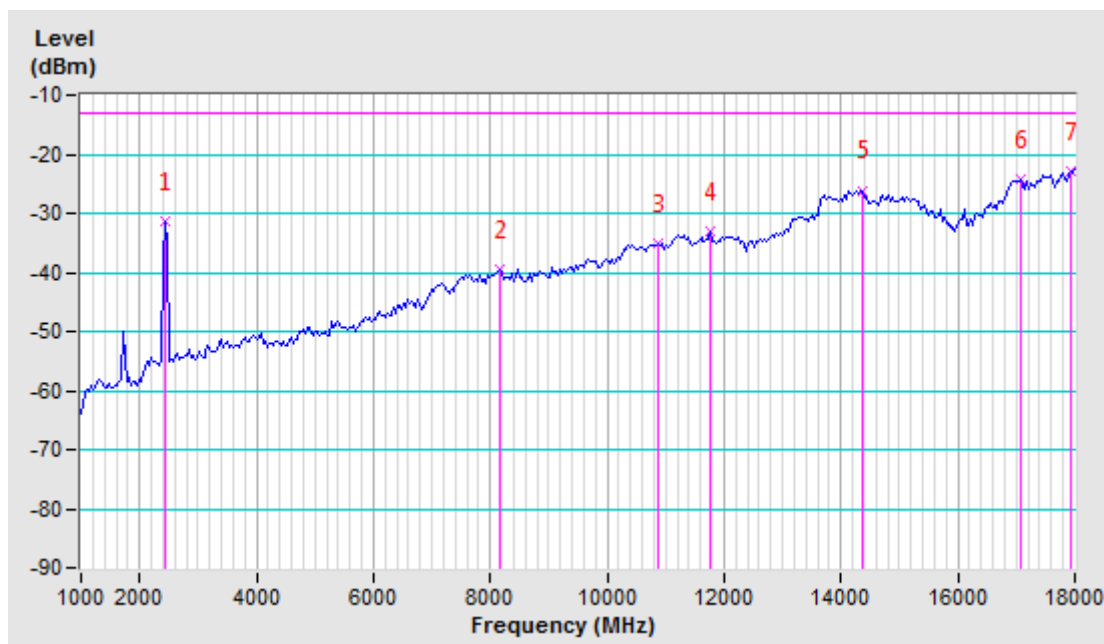


Beam ID	52+180	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2428.00	-42.2	-37.9	6.4	-31.5	-13.0	-18.5
2	8174.00	-64.3	-43.9	4.3	-39.6	-13.0	-26.6
3	10860.00	-64.4	-37.3	2.3	-35.0	-13.0	-22.0
4	11778.00	-63.9	-36.2	3.0	-33.2	-13.0	-20.2
5	14362.00	-62.0	-27.6	1.5	-26.1	-13.0	-13.1
6	17082.00	-60.5	-26.4	2.1	-24.3	-13.0	-11.3
7	17932.00	-62.4	-18.5	-4.3	-22.8	-13.0	-9.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

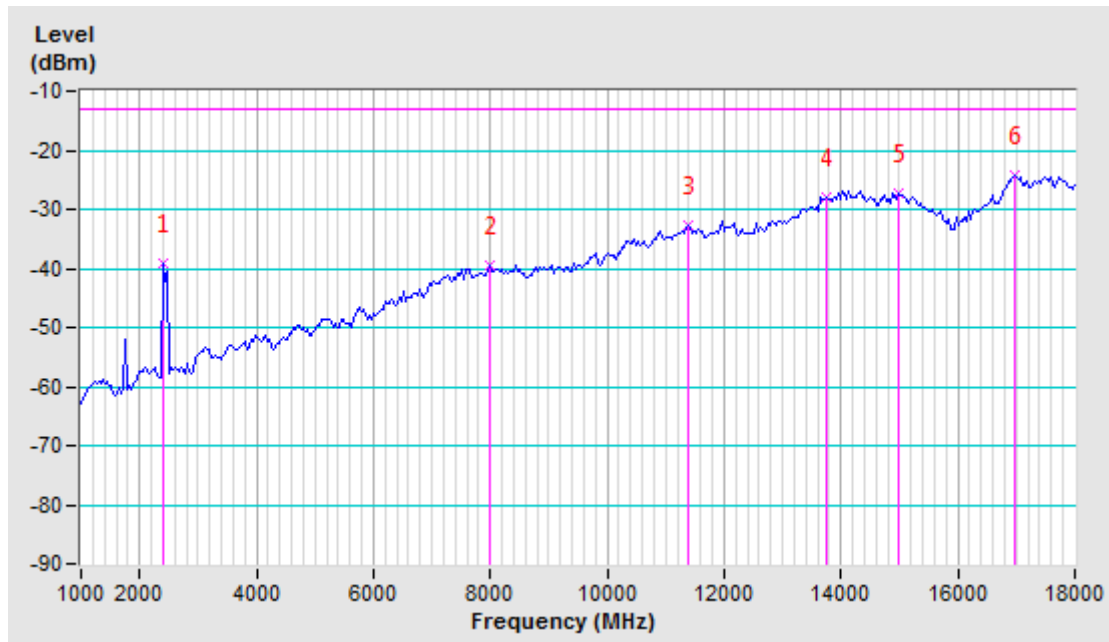


Beam ID	52+180	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Horizontal

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2394.00	-47.2	-45.7	6.4	-39.3	-13.0	-26.3
2	8004.00	-64.8	-43.4	4.0	-39.4	-13.0	-26.4
3	11370.00	-64.0	-35.2	2.4	-32.8	-13.0	-19.8
4	13750.00	-62.8	-30.2	2.2	-28.0	-13.0	-15.0
5	14974.00	-61.1	-30.3	3.1	-27.2	-13.0	-14.2
6	16980.00	-60.2	-27.1	2.7	-24.4	-13.0	-11.4

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.

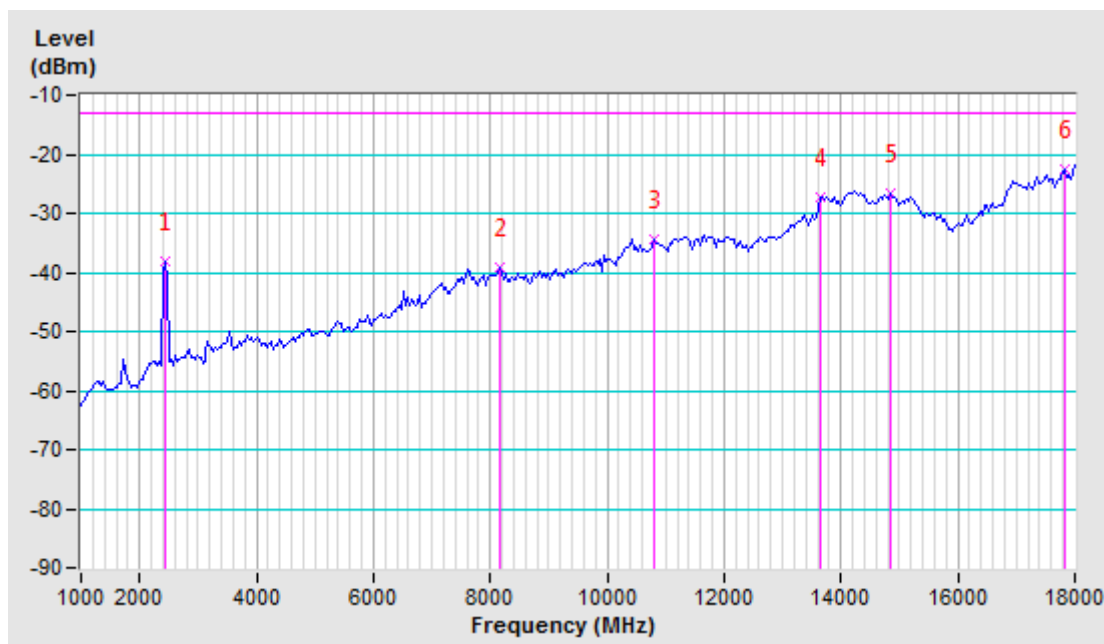


Beam ID	52+180	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Vertical

Test Distance: 3 M							
No.	Freq. (MHz)	Spectrum Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2428.00	-48.7	-44.4	6.4	-38.0	-13.0	-25.0
2	8174.00	-63.8	-43.4	4.3	-39.1	-13.0	-26.1
3	10792.00	-63.9	-36.7	2.3	-34.4	-13.0	-21.4
4	13648.00	-62.8	-29.6	2.3	-27.3	-13.0	-14.3
5	14838.00	-61.0	-29.2	2.7	-26.5	-13.0	-13.5
6	17830.00	-62.1	-19.4	-3.1	-22.5	-13.0	-9.5

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
3. Spectrum reading (dBm) = Spectrum reading value without factor,
Factor = free space loss + antenna factor (dB/m) and cable loss.



Beam ID	180	Frequency Range	18GHz-37.575GHz
Channel	Low	Antenna polarity	Horizontal

Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	180	Frequency Range	18GHz-37.575GHz
Channel	Low	Antenna polarity	Vertical

Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	180	Frequency Range	18GHz-37.575GHz
Channel	Mid	Antenna polarity	Horizontal

Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	180	Frequency Range	18GHz-37.575GHz
Channel	Mid	Antenna polarity	Vertical

Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	180	Frequency Range	18GHz-37.575GHz
Channel	High	Antenna polarity	Horizontal

Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	180	Frequency Range	18GHz-37.575GHz
Channel	High	Antenna polarity	Vertical

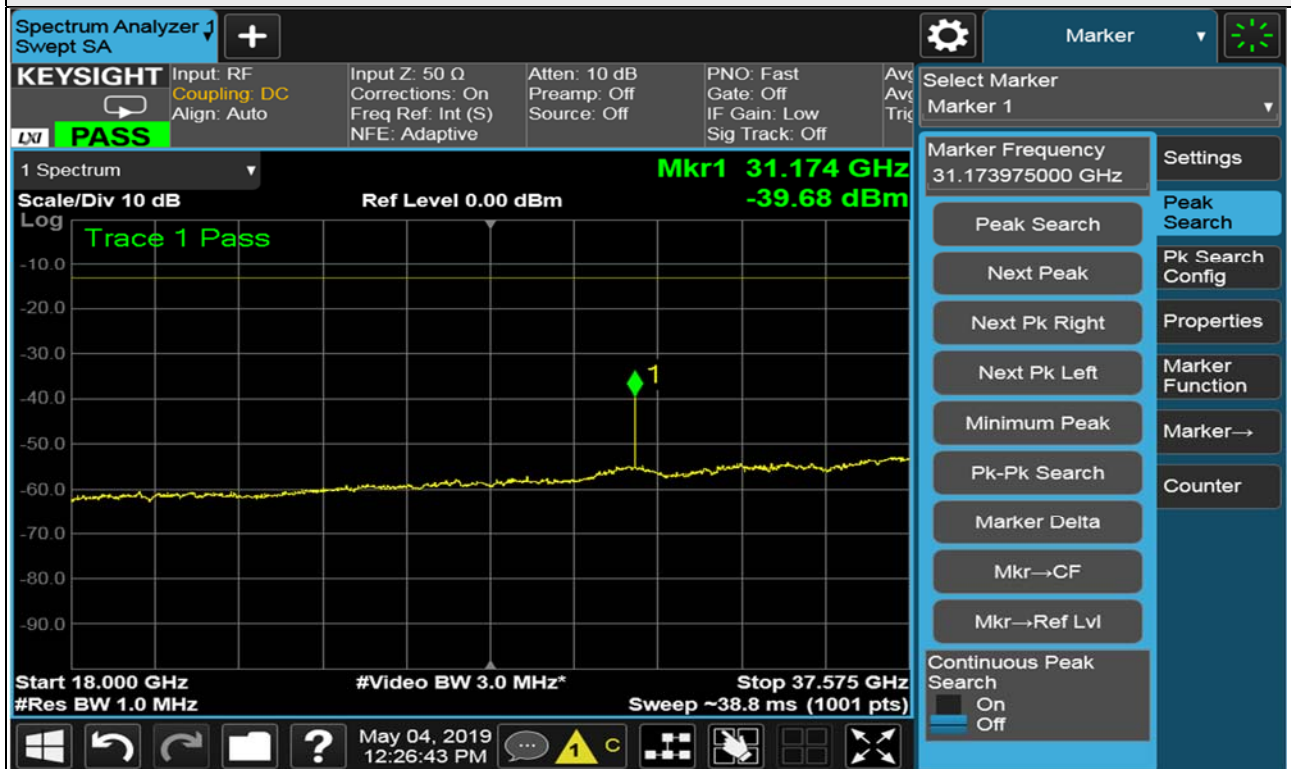
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	52+180	Frequency Range	18GHz-37.575GHz
Channel	Low	Antenna polarity	Horizontal

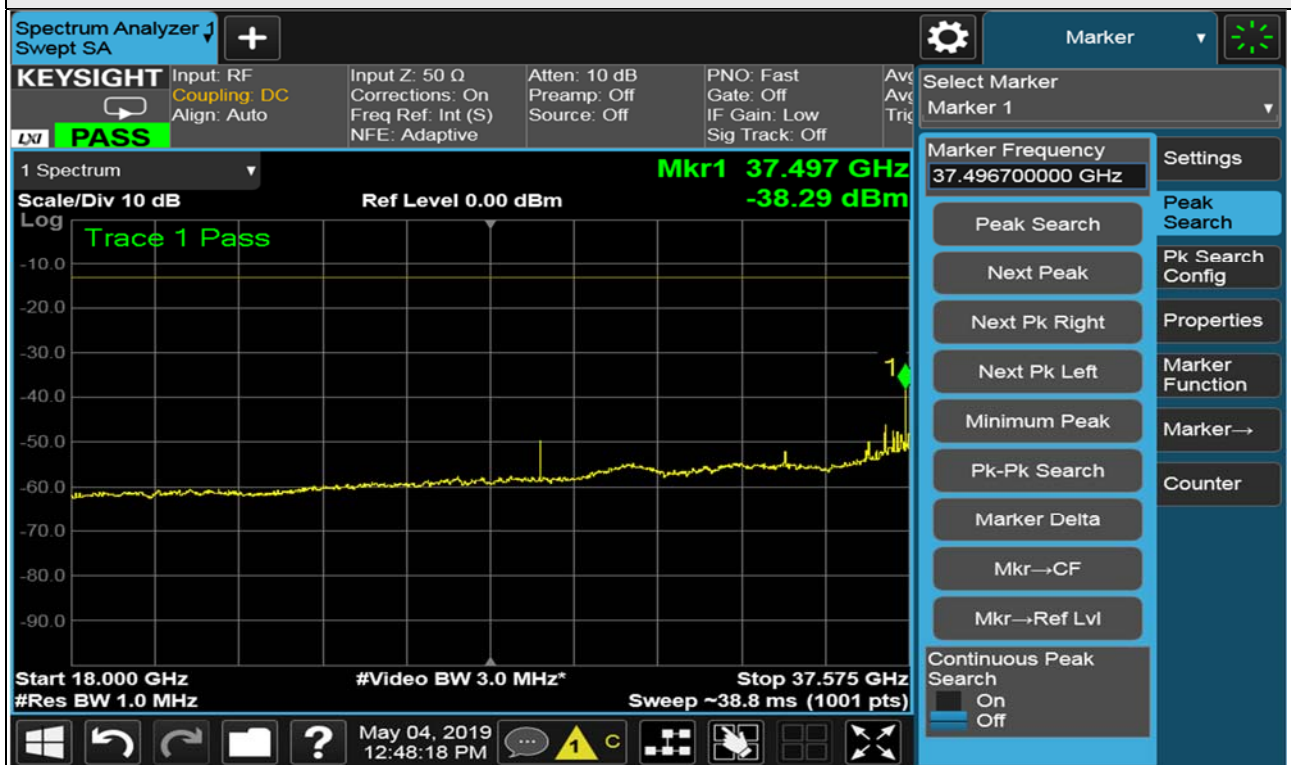
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	52+180	Frequency Range	18GHz-37.575GHz
Channel	Low	Antenna polarity	Vertical

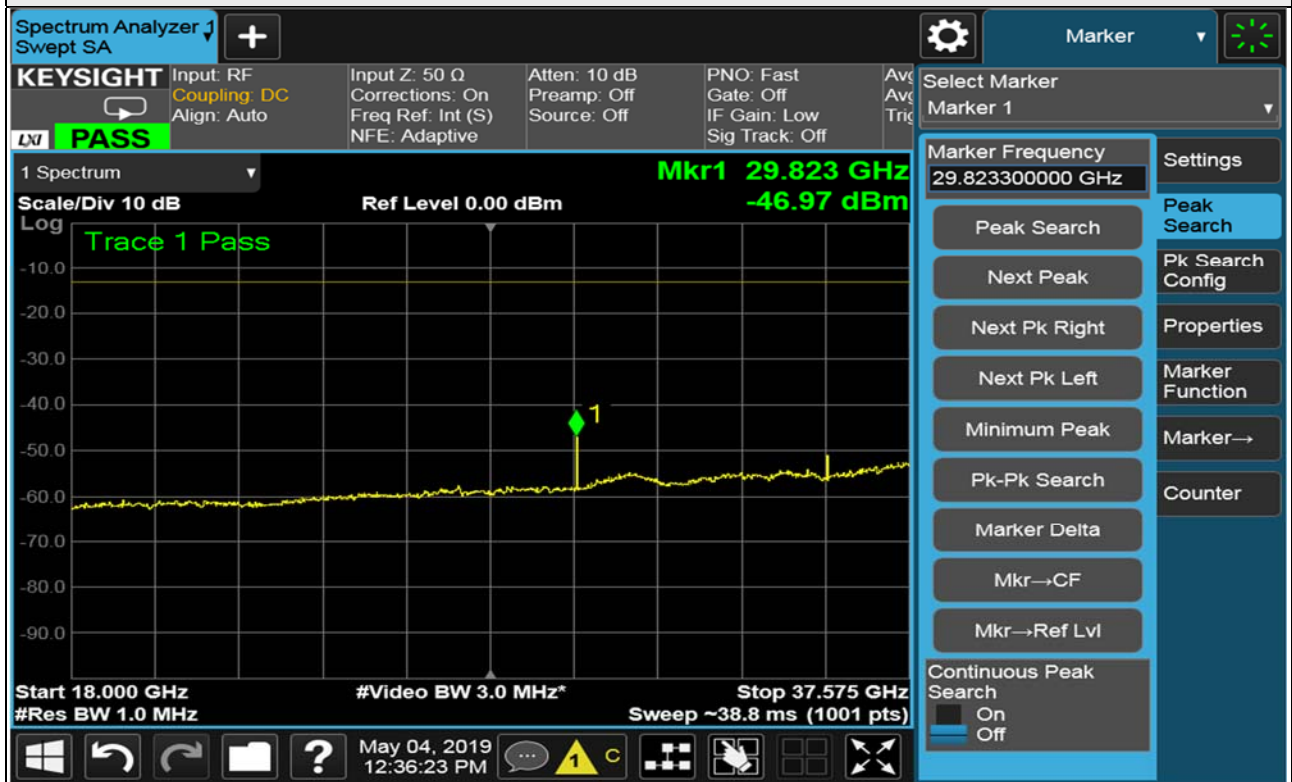
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	52+180	Frequency Range	18GHz-37.575GHz
Channel	Mid	Antenna polarity	Horizontal

Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	52+180	Frequency Range	18GHz-37.575GHz
Channel	Mid	Antenna polarity	Vertical

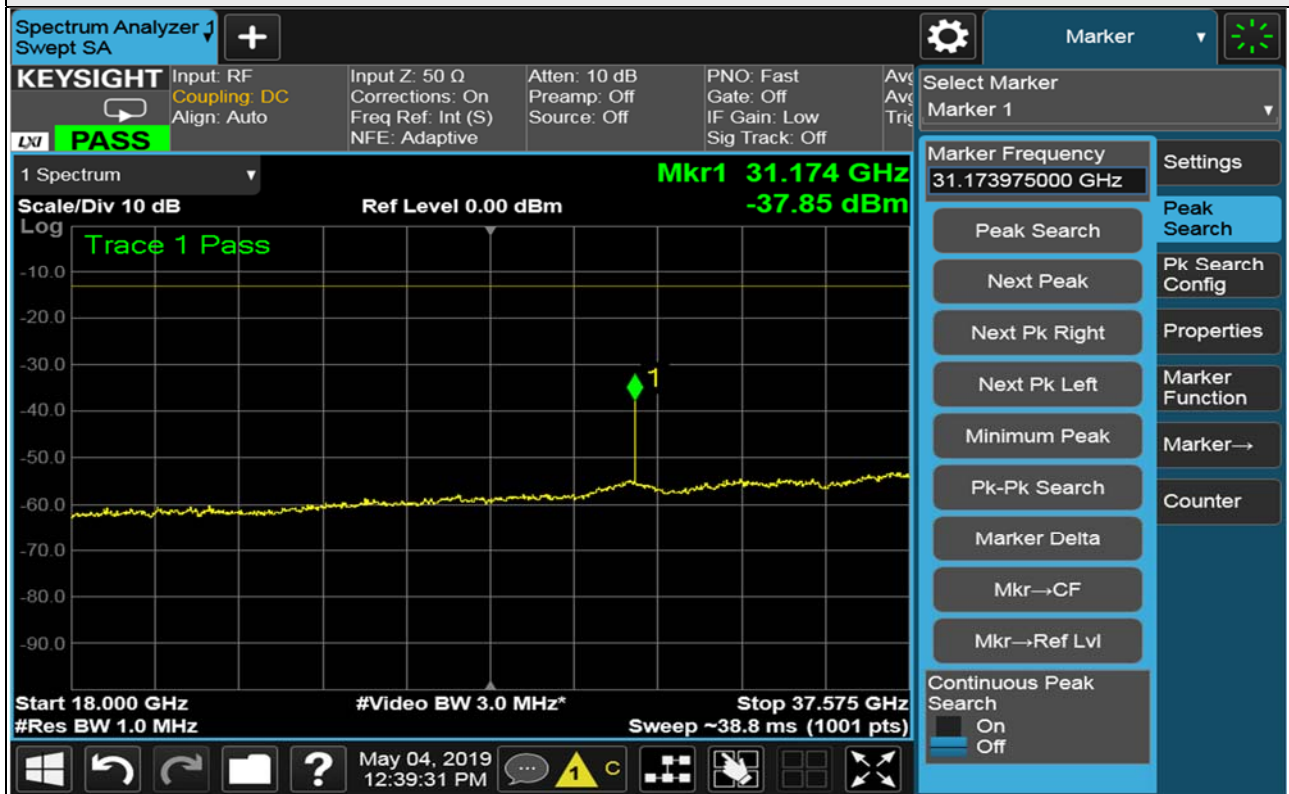
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	52+180	Frequency Range	18GHz-37.575GHz
Channel	High	Antenna polarity	Horizontal

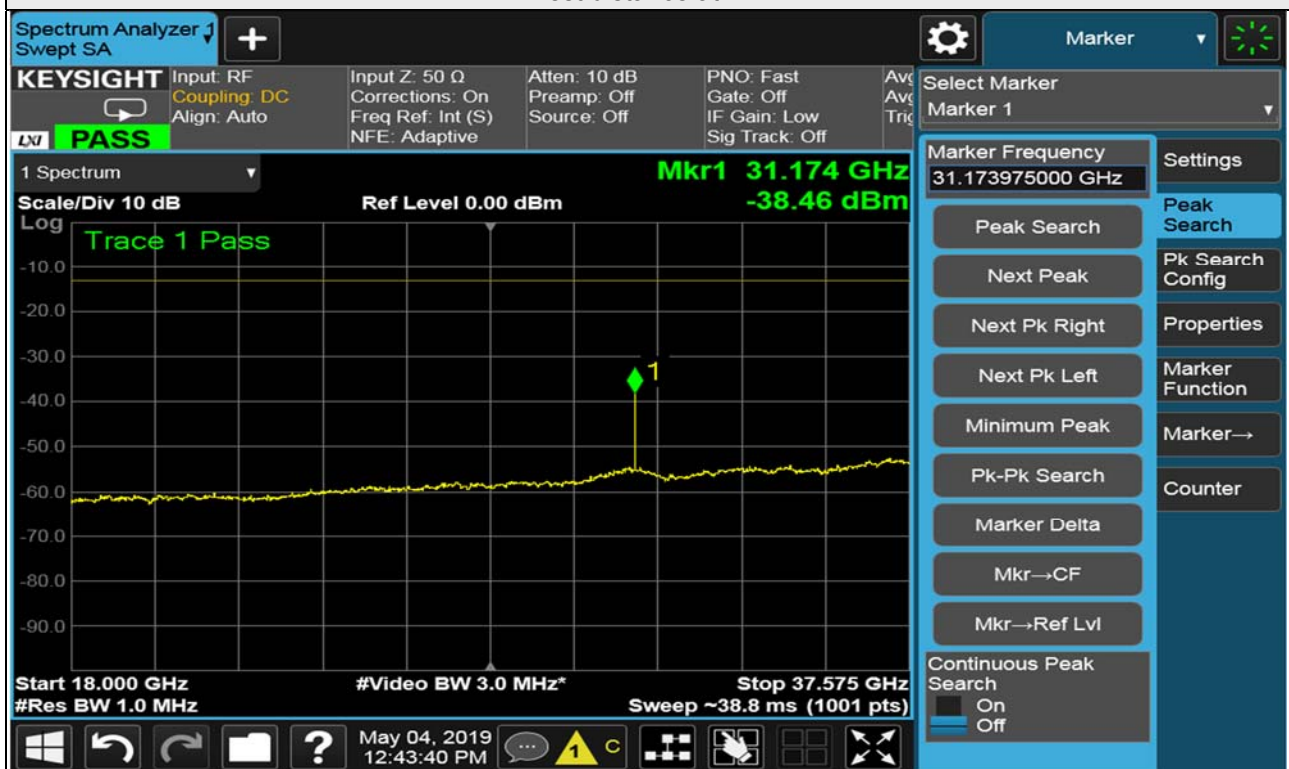
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	52+180	Frequency Range	18GHz-37.575GHz
Channel	High	Antenna polarity	Vertical

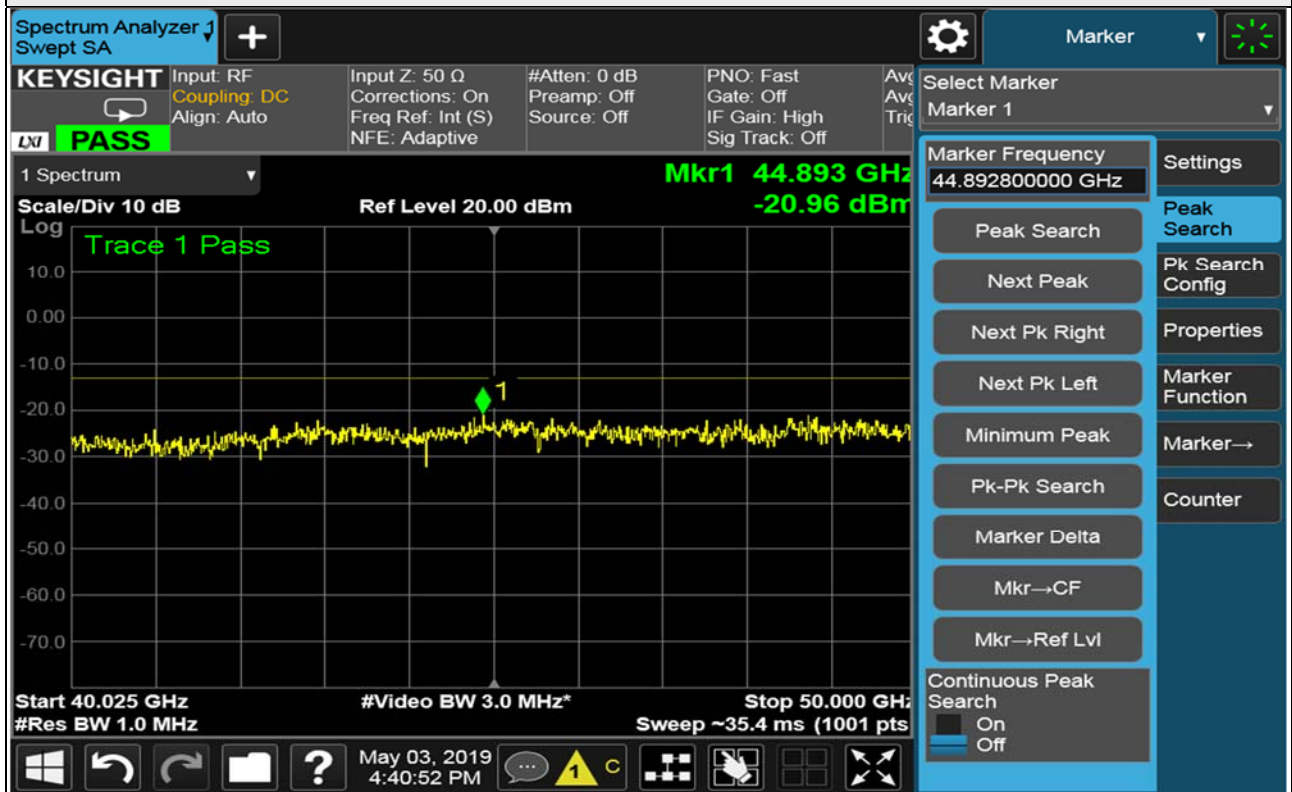
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	175	Frequency Range	40.25GHz-50GHz
Channel	Low	Antenna polarity	Horizontal

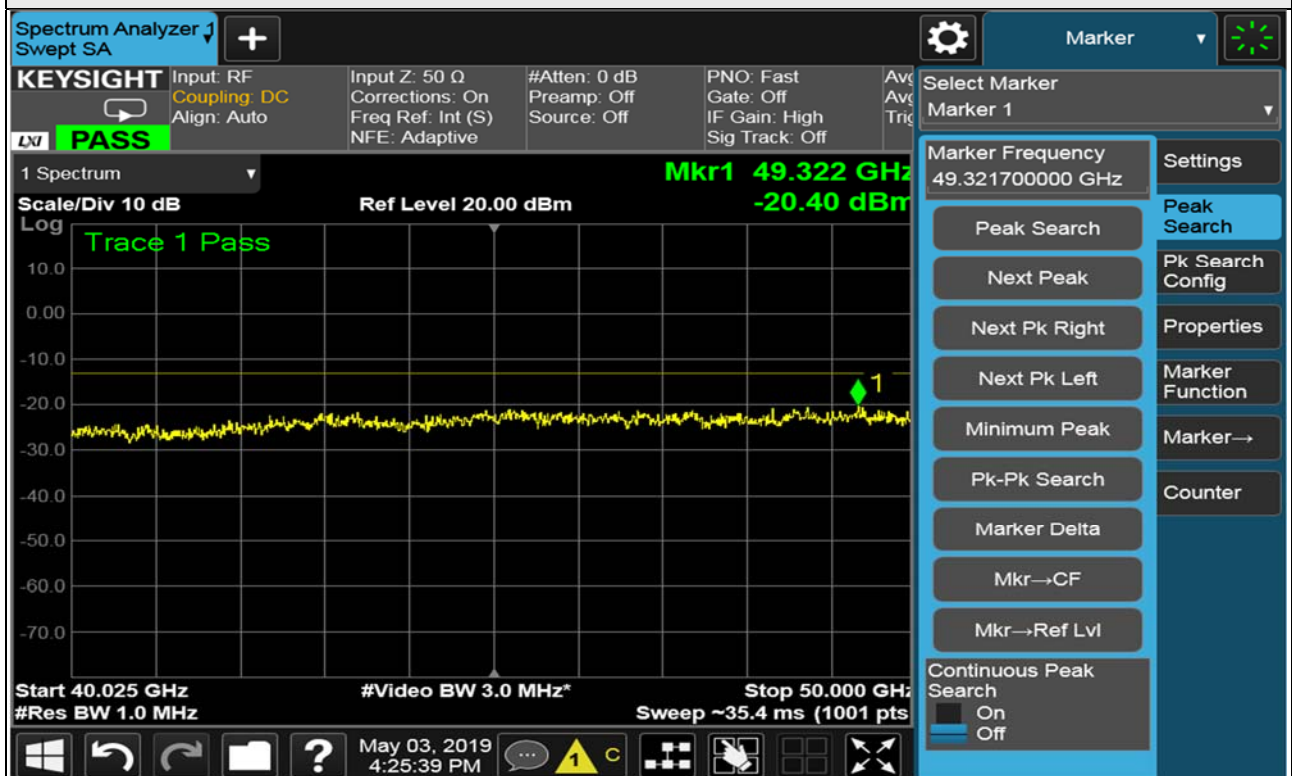
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	175	Frequency Range	40.25GHz-50GHz
Channel	Low	Antenna polarity	Vertical

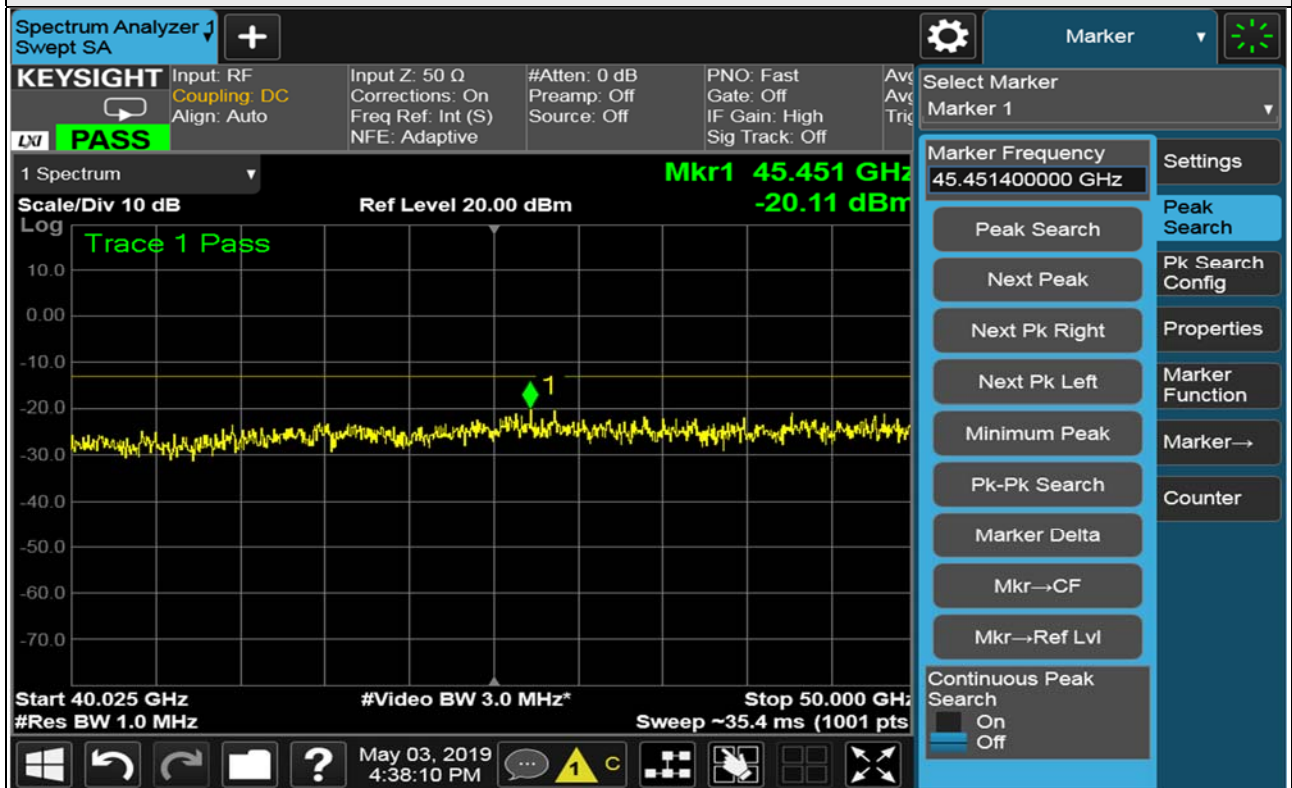
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	175	Frequency Range	40.25GHz-50GHz
Channel	Mid	Antenna polarity	Horizontal

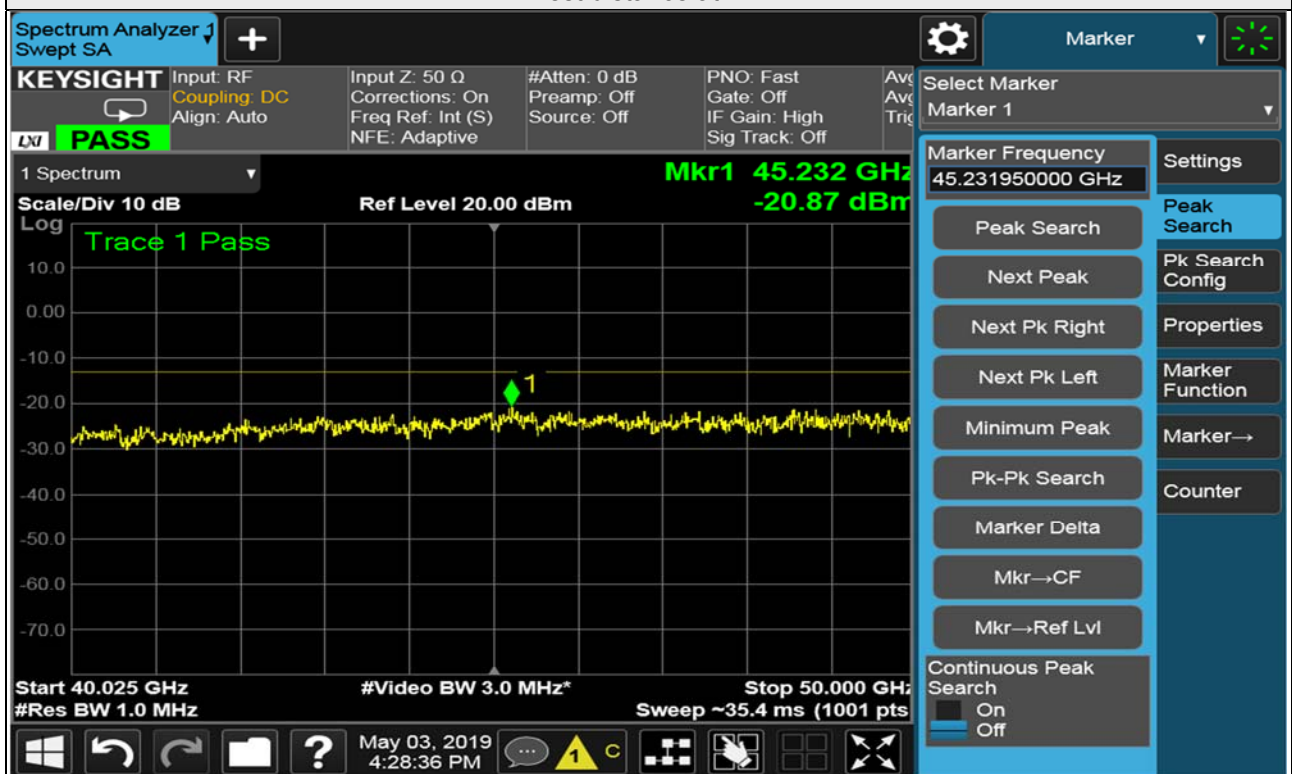
Test distance at 1m



Note: The test results already include the correction factor (corrections: On).

Beam ID	175	Frequency Range	40.25GHz-50GHz
Channel	Mid	Antenna polarity	Vertical

Test distance at 1m



Note: The test results already include the correction factor (corrections: On).