



**Add value.
Inspire trust.**

Report On

FCC testing of the
Ericsson Remote Radio Unit Multi-RAT KRY 901 432/1 and KRY 901
432/2, Dot 4479 B41K and Dot 4489 B41K (2515-2675 MHz), with
compatible Main Unit in a Base Station configuration in accordance
with FCC CFR 47 Part 2, FCC CFR 47 Part 27
COMMERCIAL-IN-CONFIDENCE

FCC ID: TA8AKRY901432-1

PREPARED
BY

Handwritten signature of Scott Drysdale in black ink.

Scott Drysdale

APPROVED BY

Handwritten signature of Nick Viktorov in blue ink.

Nick Viktorov

DATED

Aug 23, 2019



CONTENTS

Section	Page No
1	REPORT INFORMATION 3
1.1	Report Details 4
1.2	Brief Summary of Results 5
1.3	Configuration Description 6
1.4	Declaration of Build Status 7
1.5	Test Setup 9
1.6	Test Conditions 10
1.7	Deviation From The Standard 10
1.8	Modification Record 10
1.9	Alternative Test Site 10
1.10	Additional Information 10
2	TEST DETAILS 11
2.1	Maximum Peak Output Power and Peak to Average Ratio - Conducted 12
2.2	Occupied Bandwidth 44
2.3	Band Edge 65
2.4	Transmitter Spurious Emissions 81
2.5	Frequency Stability 103
3	TEST EQUIPMENT USED 104
3.1	Test Equipment Used 105
3.2	Measurement Uncertainty 106
4	ACCREDITATION, DISCLAIMERS AND COPYRIGHT 107
4.1	Accreditation, Disclaimers and Copyright 108
ANNEX A	Module Lists A.2



SECTION 1

REPORT INFORMATION



1.1 REPORT DETAILS

Manufacturer	Ericsson
Address	Torshamnsgatan 23 Kista SE-16480 Stockholm Sweden
Product Name & Product Number	Radio Dot 4489 B41K & KRY 901 432/2
Non-tested Variant	Radio Dot 4479 B41K & KRY 901 432/1
Serial Number(s)	TD3T789162
Software Version	R79GJ06
Hardware Version	R1B
Test Specification/Issue/Date	FCC CFR 47 Part 2: 2018 FCC CFR 47 Part 27: 2018
Start of Test	27 July 2019
Finish of Test	8 Aug, 2019
Name of Engineer(s)	Scott Drysdale
TUV SUD Canada Number	7169006431
Related Document(s)	KDB 971168 D01 v02r02 KDB 662911 D01 v02r01

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate compliance with FCC CFR 47 Part 27. The sample tested was found to comply with the requirements defined in the applied rules.

Test Personnel;

A handwritten signature in black ink that reads 'Scott Drysdale'.

Scott Drysdale



1.2 BRIEF SUMMARY OF RESULTS

A brief summary of results for each configuration, in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 27.

Section	Specification Clause		Test Description	Result
	FCC CFR 47 Part 2	FCC CFR 47 Part 27		
2.1	2.1046	27.50	Maximum Peak Output Power and Peak to Average Ratio - Conducted	Pass
2.2	2.1049	27.53	Occupied Bandwidth	Pass
2.3	2.1051	27.53 (h)	Band Edge	Pass
2.4	2.1051	27.53 (h)	Transmitter Spurious Emissions	Pass
2.5	2.1055	27.54	Frequency Stability	Pass

Measurement Uncertainty Decision Statement

Determination of conformity with the specification limits is based on the results of the compliance measurement and does not take into account measurement instrumentation uncertainty as defined in ANSI C63.26:2015 Clause 1.3.



1.3 CONFIGURATION DESCRIPTION

Configuration	RAT	No. Of carriers	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
				Bottom	Middle	Top
A	LTE	1	20 MHz	2,525.0	2,585.0	2,665.0
B	NR	1	20 MHz 30KHz SCS	2,525.0	2,585.0	2,665.0
		1	100 MHz 60KHz SCS	2,565.0	2,595.0	2,625.0
C	3 x LTE 20 + 1 x NR	4	3 x 20 MHz (LTE) + 1 x 20 MHz (NR) = 80 MHz	2,555.0	2595.0	2,635.0



1.4 DECLARATION OF BUILD STATUS

MAIN EUT	
MANUFACTURING DESCRIPTION	Radio Dot
MANUFACTURER	Ericsson
TYPE	Remote Radio Base Station
PART NUMBER	KRY 901 432/1 and KRY 901 432/2
SERIAL NUMBER	TD3T789162
HARDWARE VERSION	R1B
SOFTWARE VERSION	R79GJ08
TRANSMITTER OPERATING RANGE	2515 – 2675 MHz
RECEIVER OPERATING RANGE	2515 – 2675 MHz
COUNTRY OF ORIGIN	China
INTERMEDIATE FREQUENCIES	None
EMISSION DESIGNATOR(S): (i.e. G1D, GXW)	LTE: 20M0 W7D NR: 20M0F9W 100MF9W
MODULATION TYPES: (i.e. GMSK, QPSK)	LTE: QPSK, 16QAM, 64QAM, 256QAM NR: QPSK, 16QAM, 64QAM, 256QAM
HIGHEST INTERNALLY GENERATED FREQUENCY	2.7 GHz
OUTPUT POWER (W or dBm)	4 x 0.25W (24dBm)
FCC ID	TA8AKRY901432-1
INDUSTRY CANADA ID	
TECHNICAL DESCRIPTION (a brief description of the intended use and operation)	The Dot 4479 B41K (KRY 901 432/1) and the Dot 4489 B41K (KRY 901 432/2) are Remote Radio Units forming part of the Ericsson Radio Base Station (RBS) equipment. The Dot provides radio access for mobile and fixed devices and is intended for the indoor environment. The radio operates over 4 Transmit ports in MRO (LTE and NR); Single, Multi-Carrier, and MIMO transmission with a maximum rated RF Output of 0.25W per port over an operational temperature of 5°C to +40°C. The unit is designed to be ceiling or wall mounted. The 4479 and 4489 radios are identical except that Dot 4479 has internal antennas and Dot 4489 has external ports. FCC Certification is only requested for Dot 4479.

Signature:

.....
Denis Lalonde

Date: 09 August 2019

Declaration of Build Status Serial Number: TD3T789162

1.4.1 Technical Description

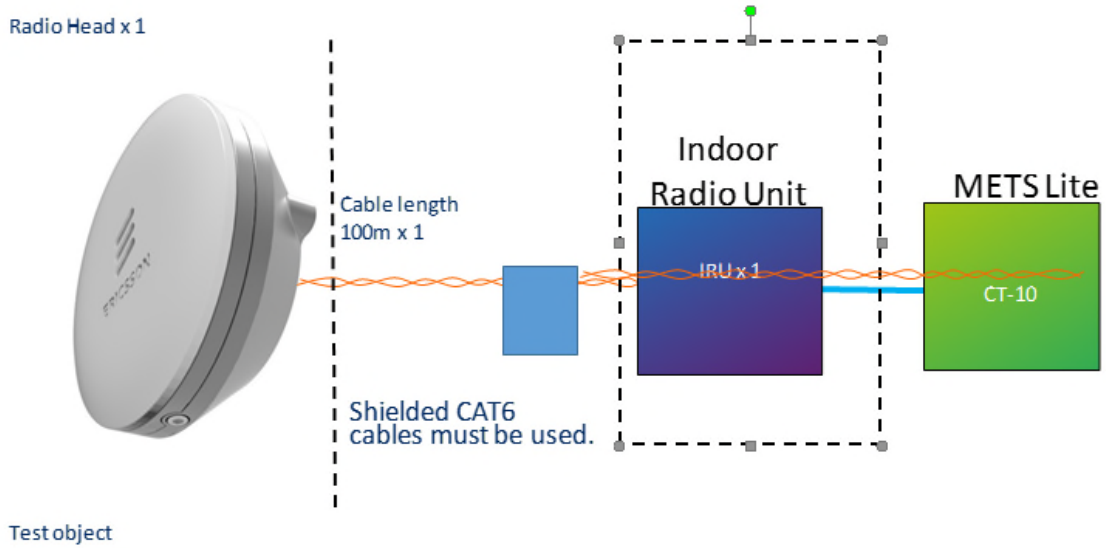
The Equipment Under Test (EUT) Radio Dot 4479 B41K is an Ericsson AB Radio Unit working in the public mobile service (2515-2675 MHz) band which provides communication connections to (2515-2675 MHz) network. The Radio Dot 4479 B41K operates from a -48V DC supply.

The Equipment Under Test (EUT) is shown in the photograph below. A full technical description can be found in the Manufacturer's documentation.



Equipment Under Test

1.5 TEST SETUP





1.6 TEST CONDITIONS

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. Tests were applied with the EUT situated in a shielded enclosure, test laboratories or a chamber as appropriate.

The EUT was powered from a -48V DC supply.

FCC Measurement Facility Accreditation Designation Number: CA4180
TUV SUD Canada (Ottawa)

1.7 DEVIATION FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

1.8 MODIFICATION RECORD

No modifications were made to the EUT during testing.

1.9 ALTERNATIVE TEST SITE

Under our group UKAS Accreditation, TÜV SÜD conducted the following tests at Ericsson in Ottawa, Canada.

Test Name	Name of Engineer(s)
Maximum Peak Output Power and Peak to Average Ratio - Conducted	Scott Drysdale
Occupied Bandwidth	Scott Drysdale
Band Edge	Scott Drysdale
Transmitter Spurious Emissions	Scott Drysdale
Frequency Stability	Scott Drysdale

1.10 ADDITIONAL INFORMATION

Testing performed with Denis Lalonde of Ericsson - Ottawa.



Product Service

SECTION 2

TEST DETAILS



2.1 MAXIMUM PEAK OUTPUT POWER AND PEAK TO AVERAGE RATIO - CONDUCTED

2.1.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1046
 FCC CFR 47 Part 27, Clause 27.50

2.1.2 Date of Test and Modification State

30 July, 01 and 02 August 2019 - Modification State 0

2.1.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.1.4 Environmental Conditions

Ambient Temperature 20-22°C
 Relative Humidity 45-55%

2.1.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, clause 5.2.1 and summed in accordance with FCC KDB 662911 D01.

2.1.6 Test Results

Configuration A

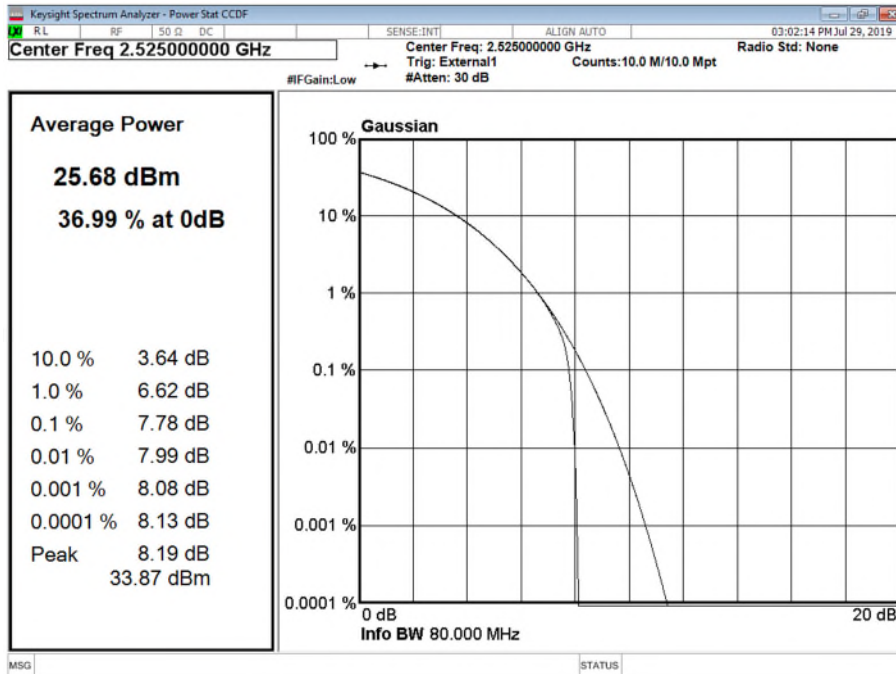
Maximum Output Power 26 dBm

Antenna	LTE Modulation	LTE Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			PAR (dB)	Channel Position B	
				Average Power	
				dBm	dBm/MHz
A	QPSK	20.0 MHz	7.78	25.62	14.03
B	QPSK	20.0 MHz	7.78	24.61	12.95
C	QPSK	20.0 MHz	7.77	25.34	13.81
D	QPSK	20.0 MHz	7.78	25.00	13.57
Total			-	31.18	19.63

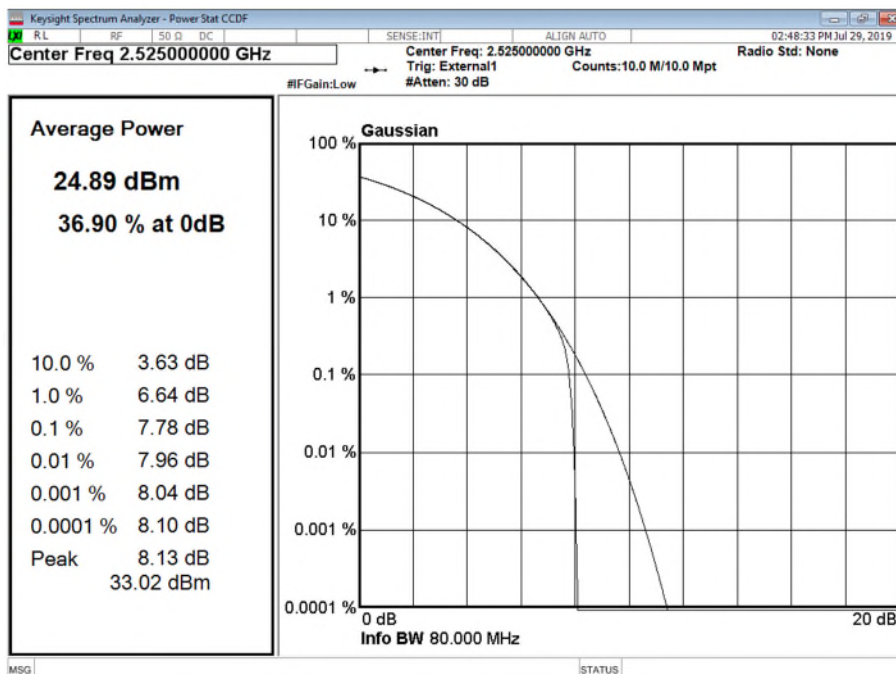


Product Service

Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B



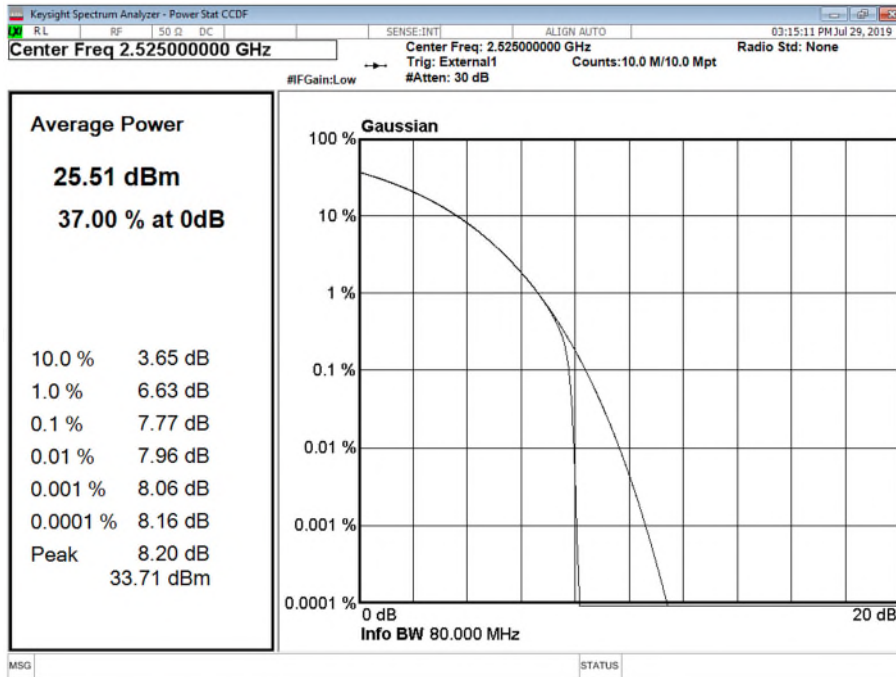
Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B



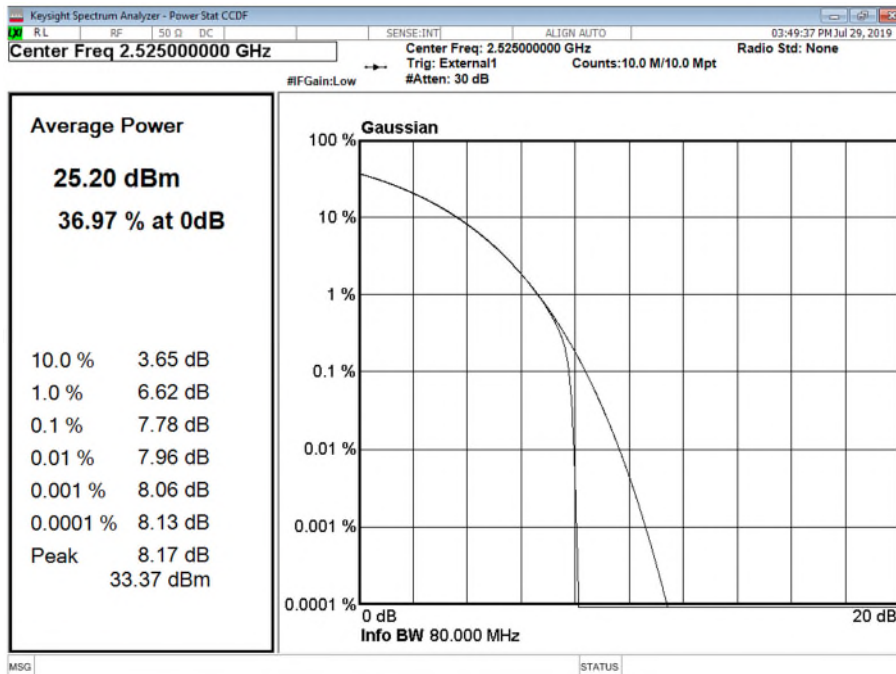


Product Service

Antenna C - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B



Antenna D - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B





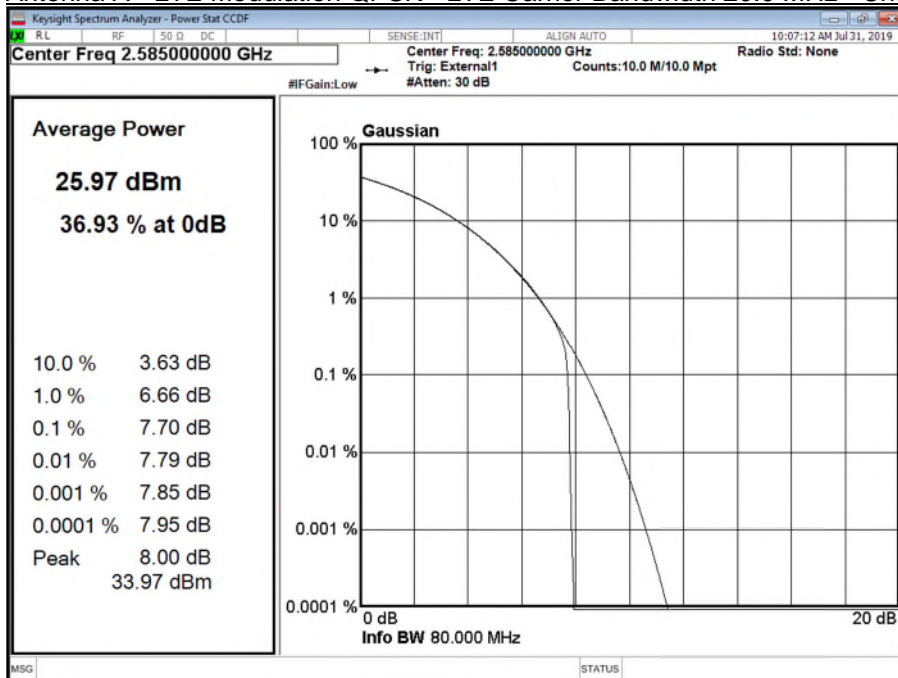
Product Service

Configuration A

Maximum Output Power 26 dBm

Antenna	LTE Modulation	LTE Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position M		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK	20.0 MHz	7.70	25.98	14.29
B	QPSK	20.0 MHz	7.73	25.15	13.15
C	QPSK	20.0 MHz	7.72	25.17	14.52
D	QPSK	20.0 MHz	7.72	25.44	13.87
Total			-	31.47	20.01

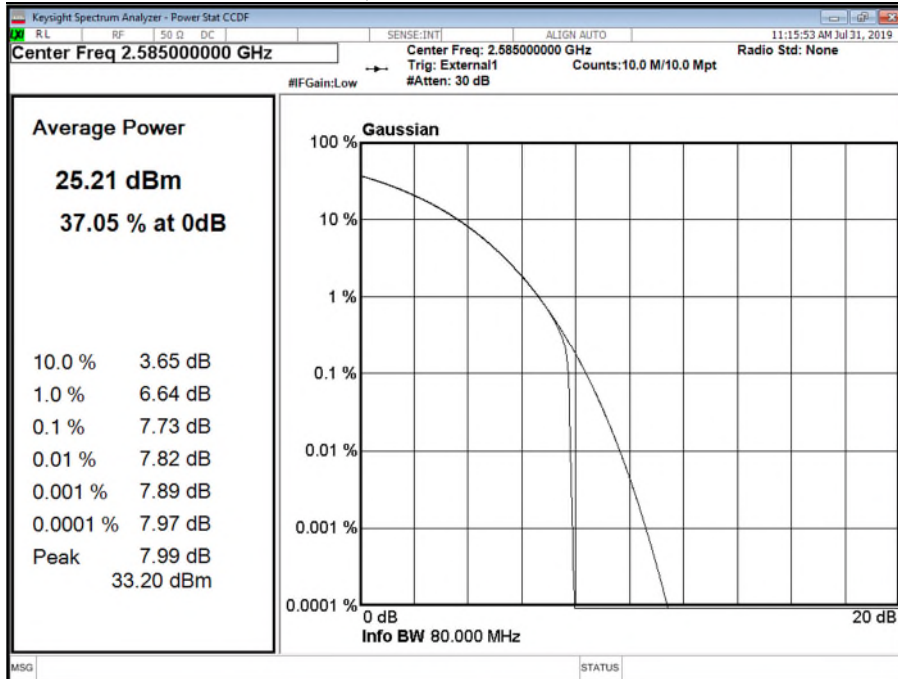
Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position M



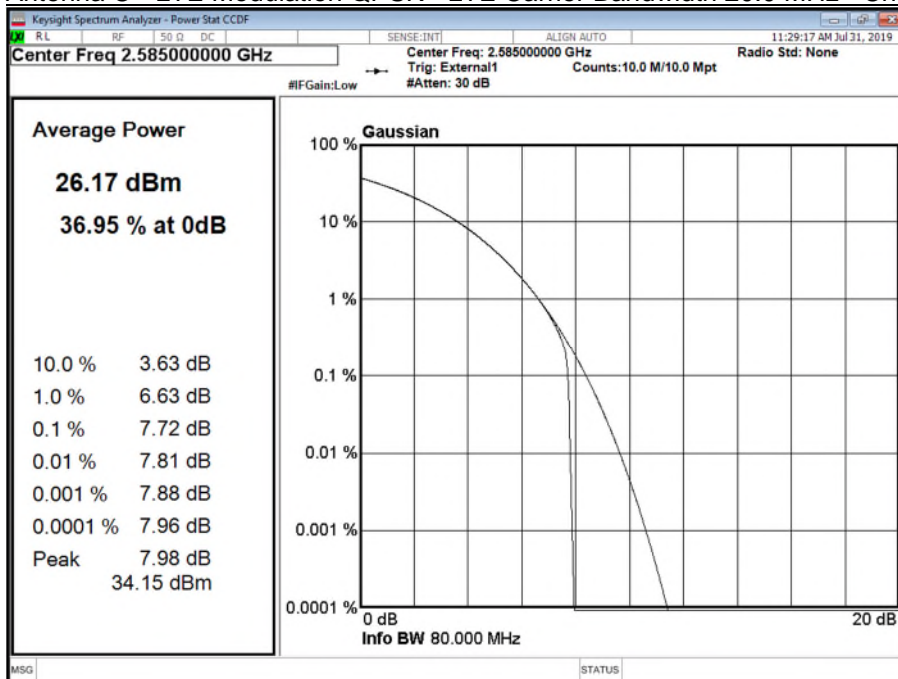


Product Service

Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position M



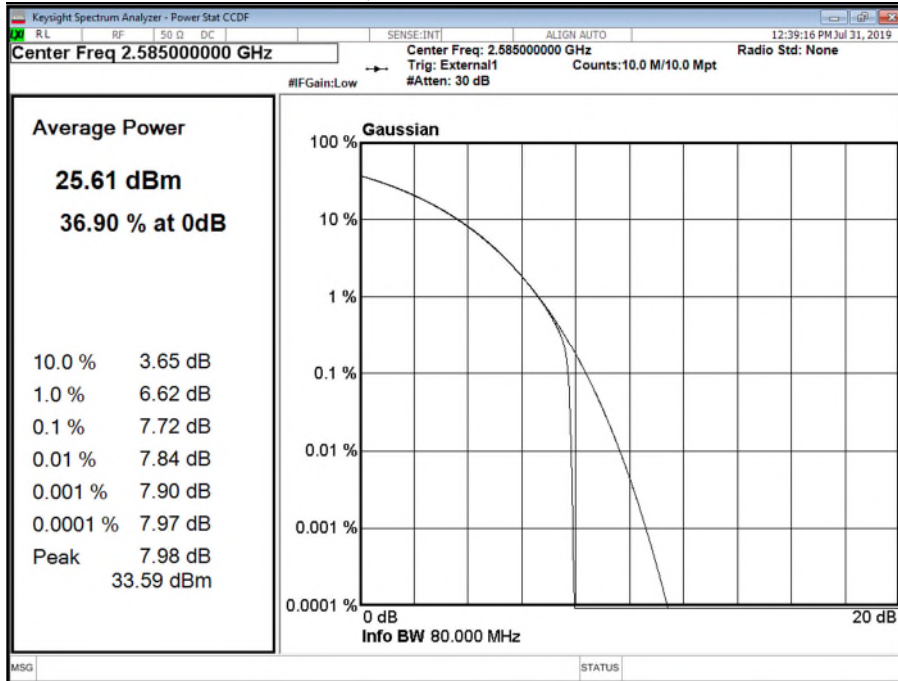
Antenna C - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position M





Product Service

Antenna D - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position M



Configuration A

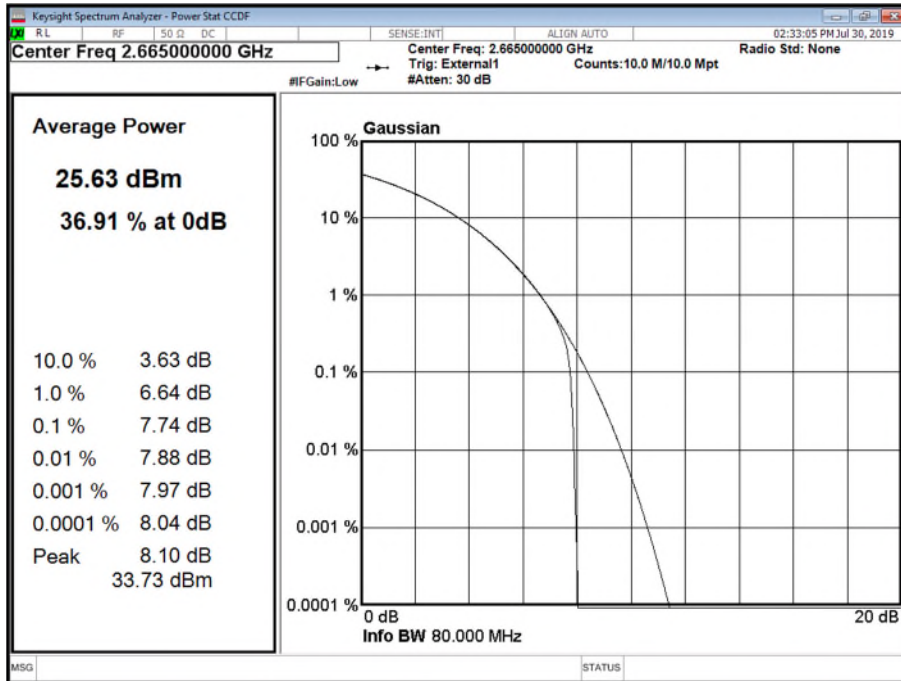
Maximum Output Power 26 dBm

Antenna	LTE Modulation	LTE Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position T		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK	20.0 MHz	7.74	25.55	12.09
B	QPSK	20.0 MHz	7.76	25.84	12.65
C	QPSK	20.0 MHz	7.78	25.67	12.22
D	QPSK	20.0 MHz	7.74	25.85	12.37
Total			-	31.75	18.36

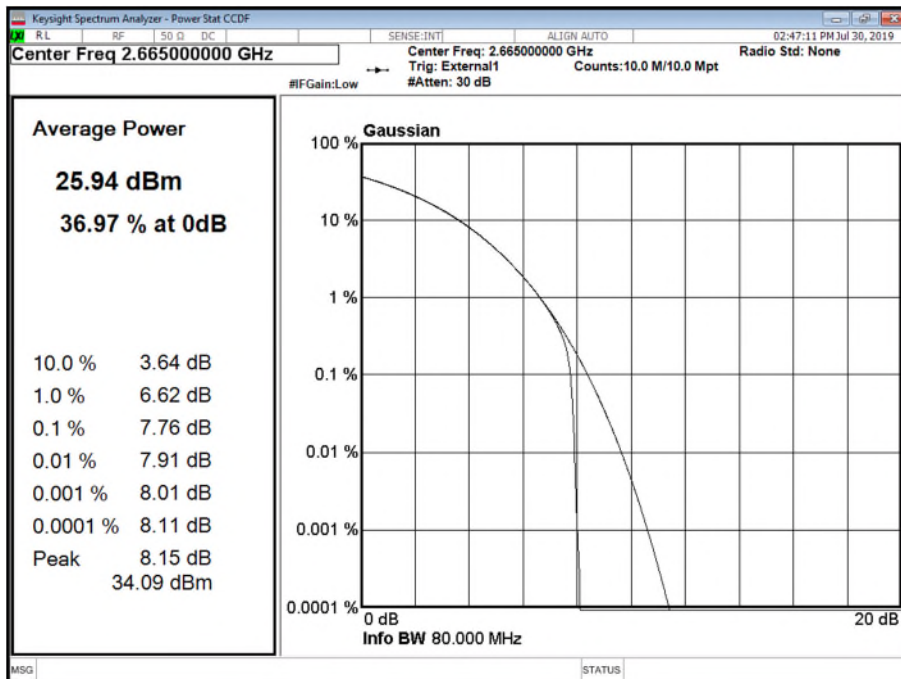


Product Service

Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position T



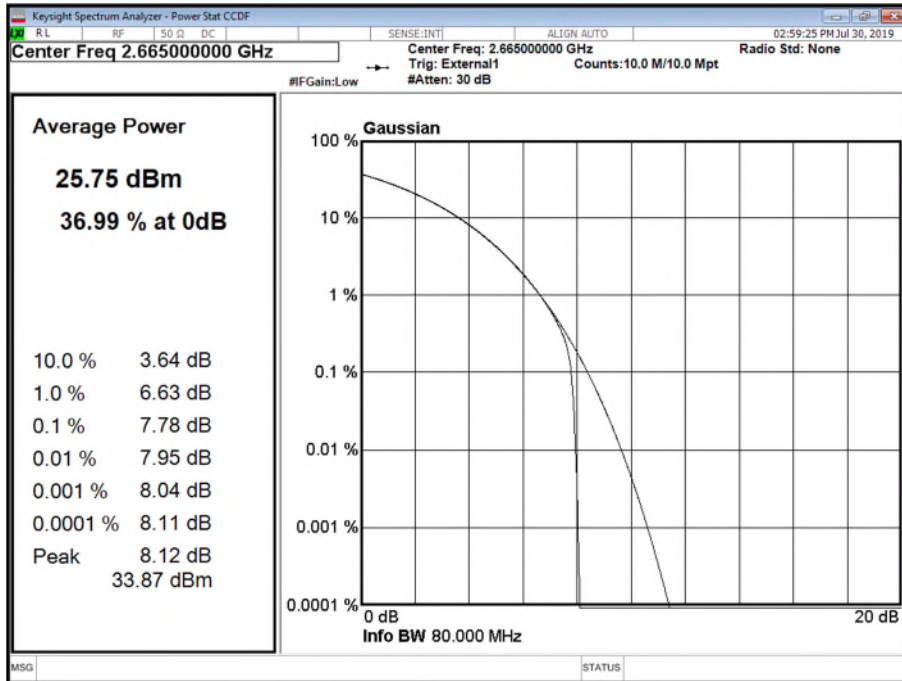
Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position T



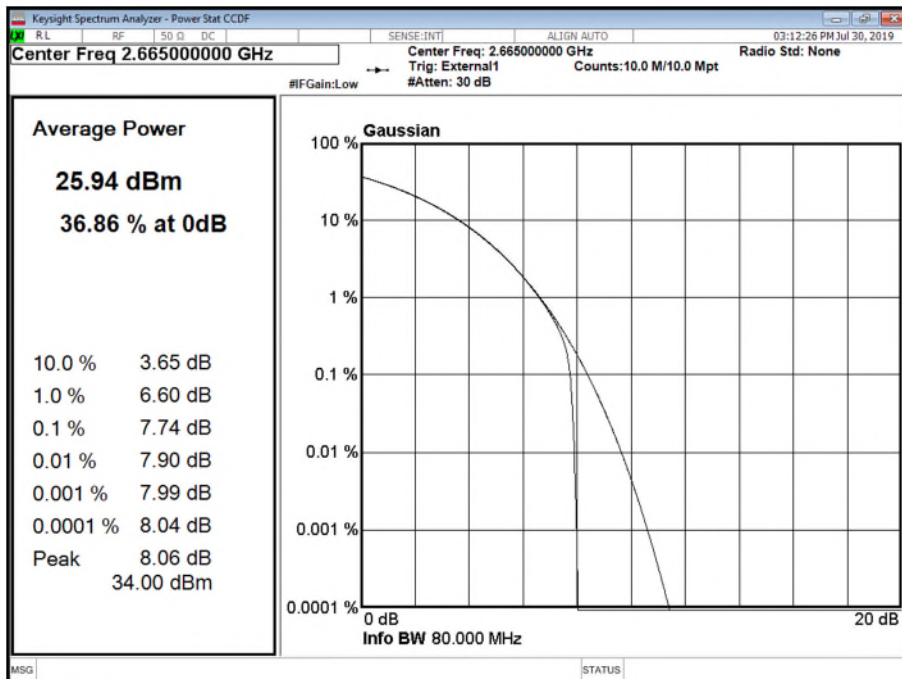


Product Service

Antenna C - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position T



Antenna D - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position T





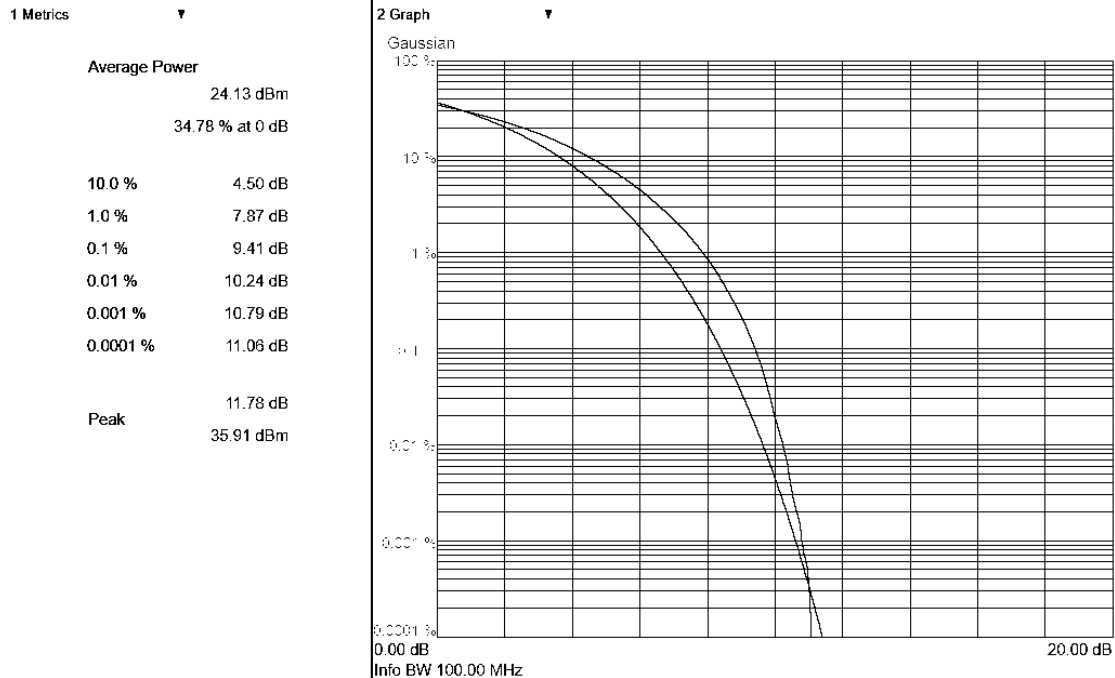
Product Service

Configuration B

Maximum Output Power 26 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position B		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK	100.0 MHz 60 kHz SCS	9.41	25.67	7.18
B	QPSK	100.0 MHz 60 kHz SCS	9.41	24.57	6.90
C	QPSK	100.0 MHz 60 kHz SCS	9.41	25.21	7.33
D	QPSK	100.0 MHz 60 kHz SCS	9.41	24.82	7.01
Total			-	31.11	13.13
A	QPSK	20.0 MHz 30 kHz SCS	8.22	24.98	14.02
B	QPSK	20.0 MHz 30 kHz SCS	8.17	24.19	13.04
C	QPSK	20.0 MHz 30 kHz SCS	8.13	24.95	13.80
D	QPSK	20.0 MHz 30 kHz SCS	8.17	24.49	13.37
Total			-	30.69	19.59

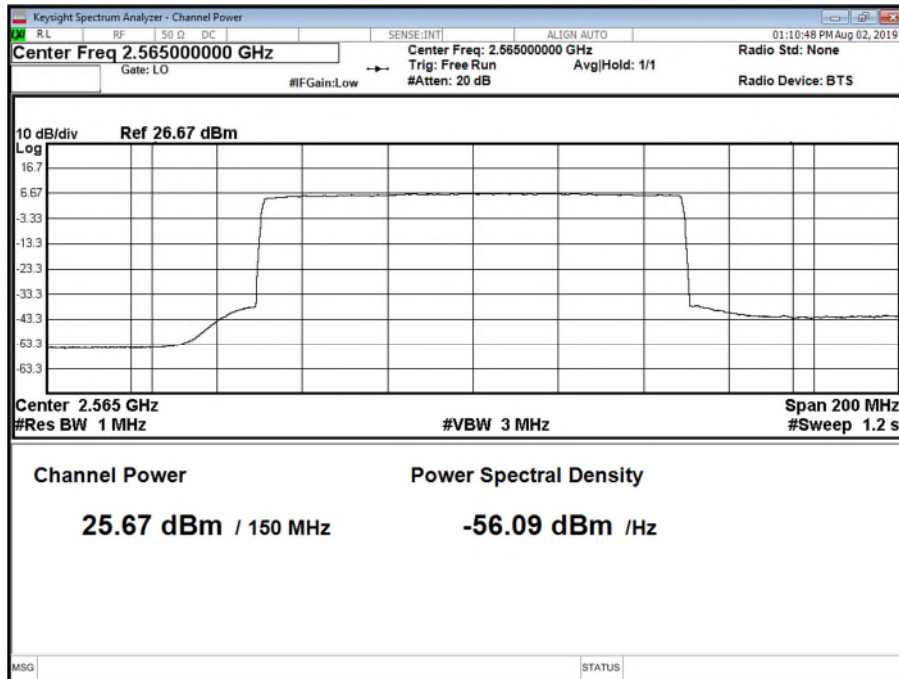
PAR (Representative/Worst case of Antenna port A/B/C/D and bottom/middle/top)





Product Service

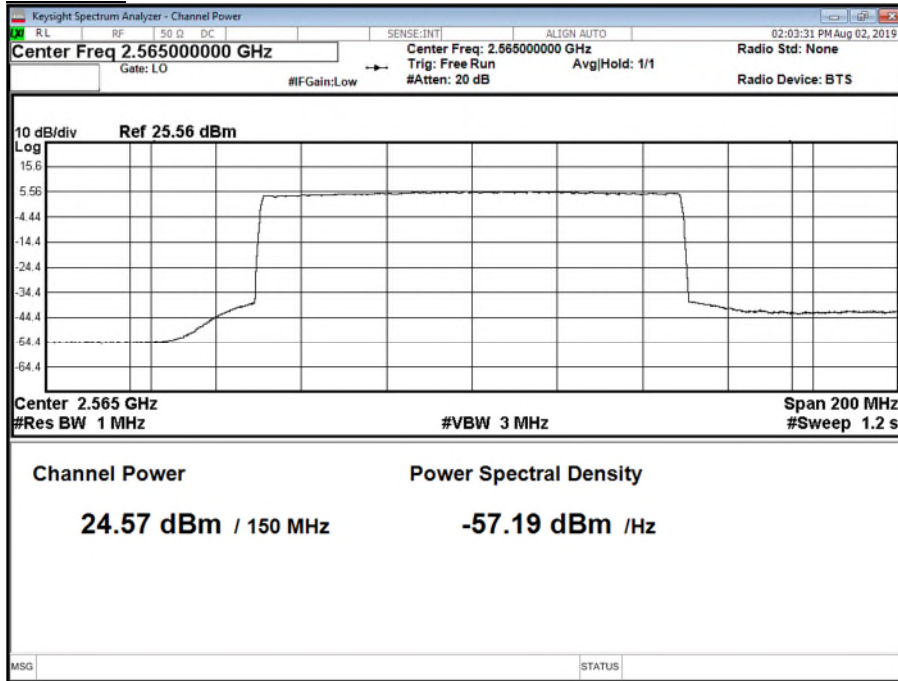
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position B



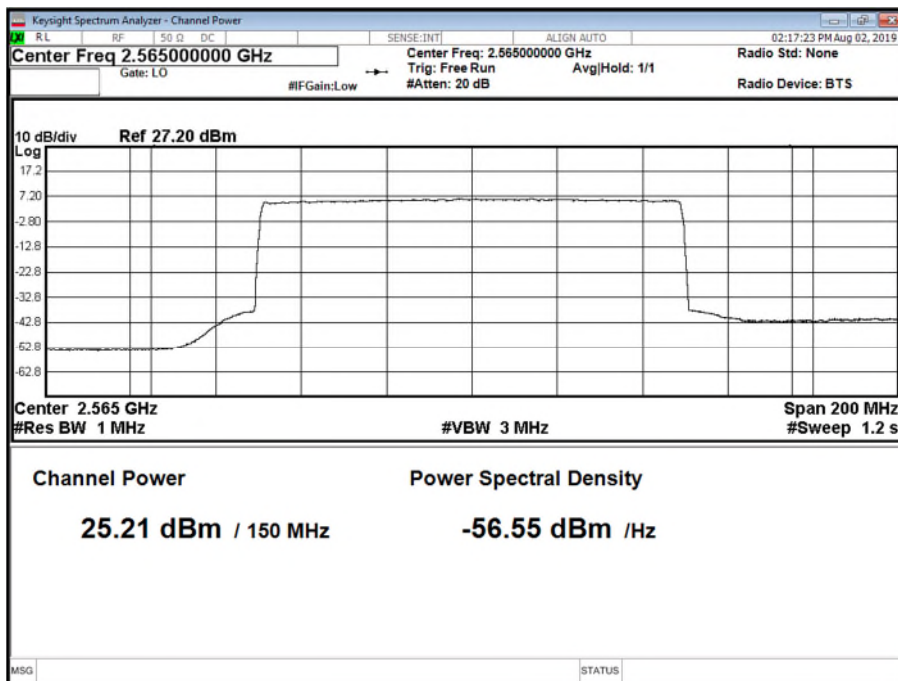


Product Service

Antenna B - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position B



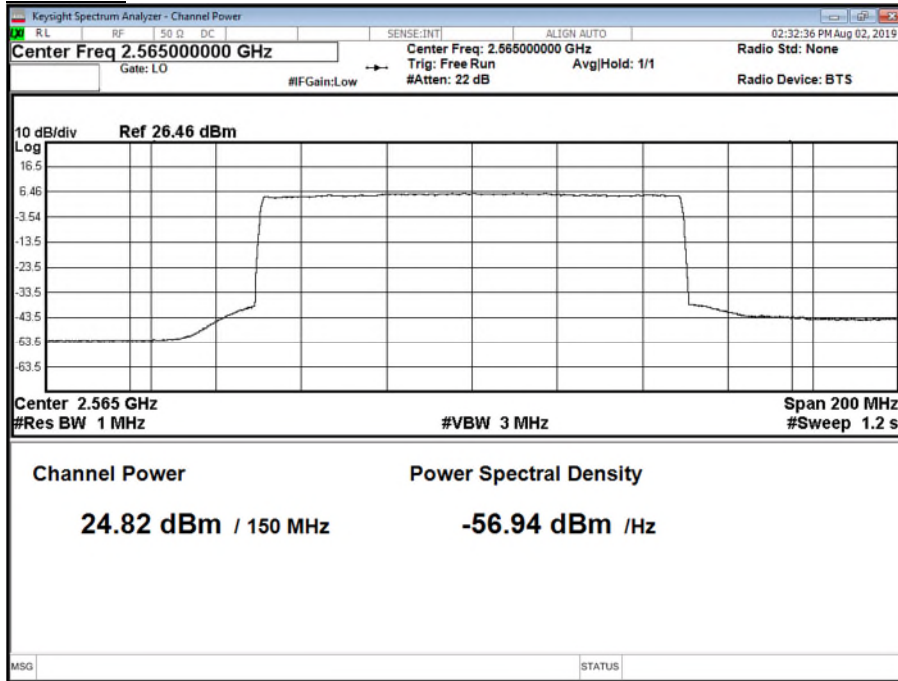
Antenna C - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position B



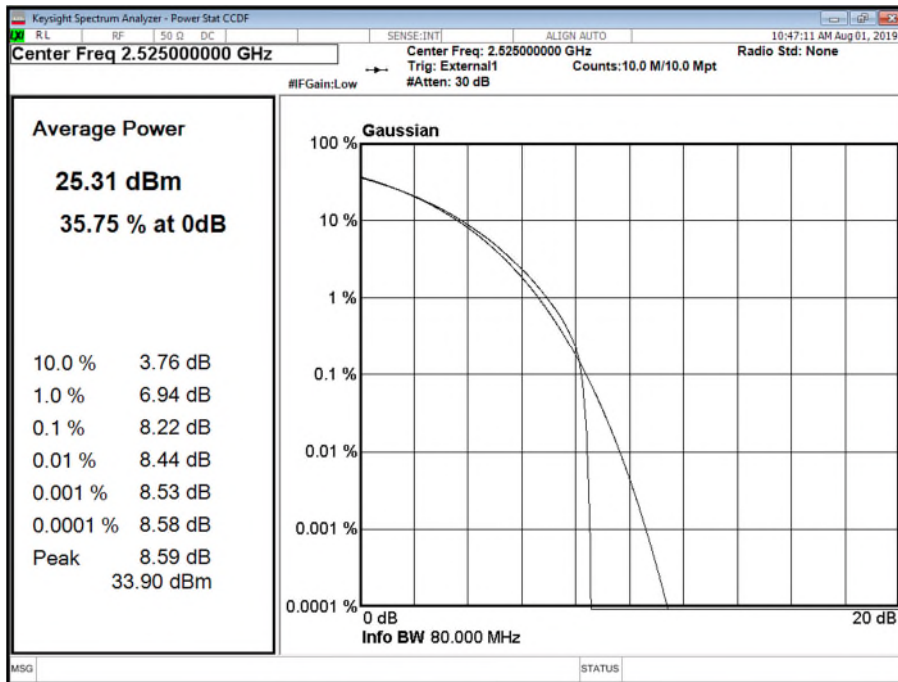


Product Service

Antenna D - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position B



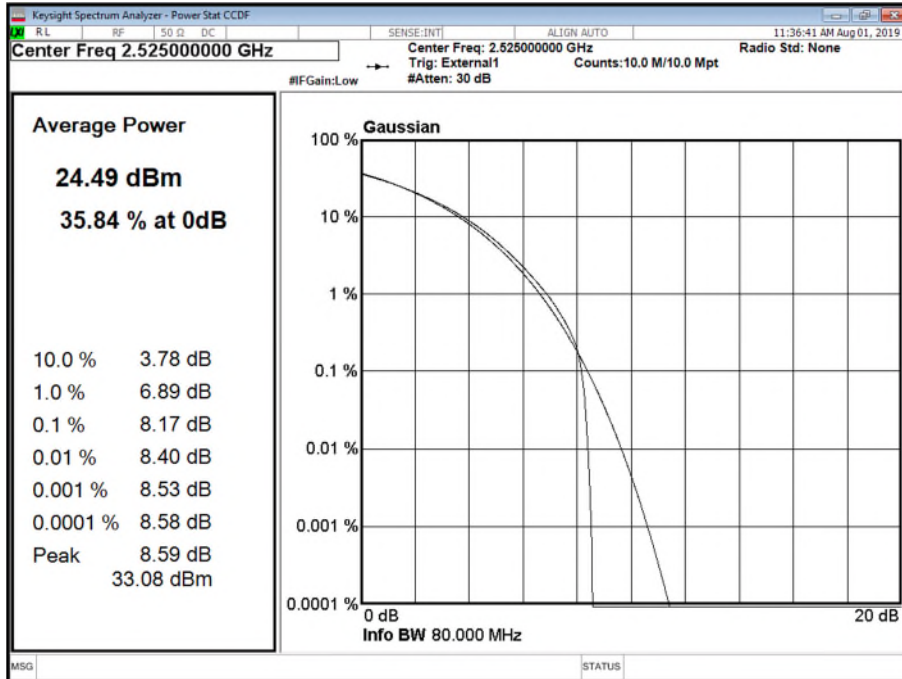
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B



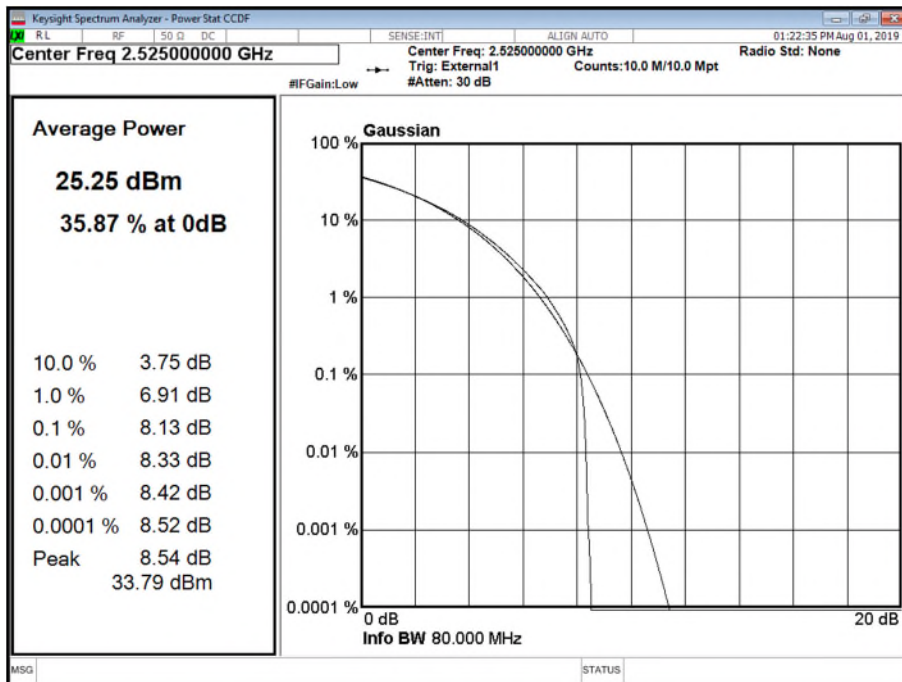


Product Service

Antenna B - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B



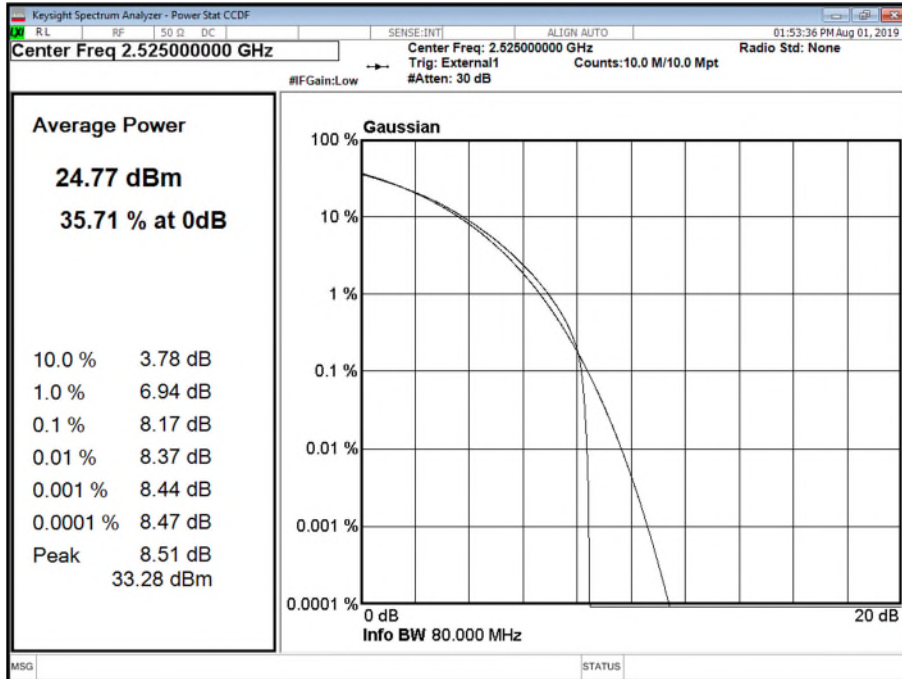
Antenna C - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B





Product Service

Antenna D - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B



Configuration B

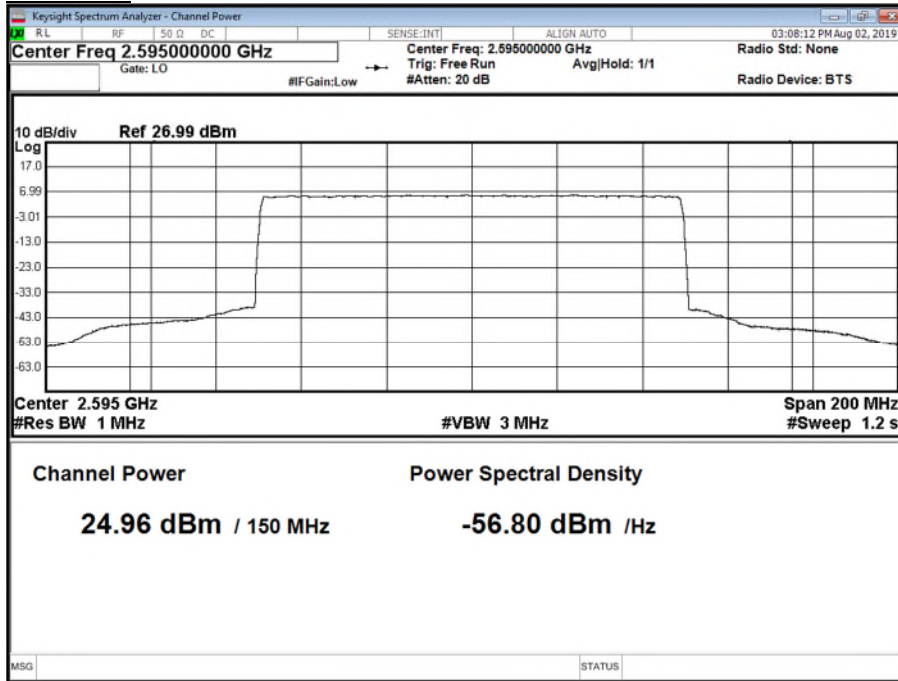
Maximum Output Power 26 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position M		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK	100.0 MHz 60 kHz SCS	9.41	24.96	6.96
B	QPSK	100.0 MHz 60 kHz SCS	9.41	24.78	6.70
C	QPSK	100.0 MHz 60 kHz SCS	9.41	25.42	7.49
D	QPSK	100.0 MHz 60 kHz SCS	9.41	25.09	6.96
Total			-	31.09	13.06
A	QPSK	20.0 MHz 30 kHz SCS	8.18	24.87	13.72
B	QPSK	20.0 MHz 30 kHz SCS	8.13	24.73	13.67
C	QPSK	20.0 MHz 30 kHz SCS	8.53	25.35	14.13
D	QPSK	20.0 MHz 30 kHz SCS	8.13	24.79	13.70
Total			-	30.96	19.83

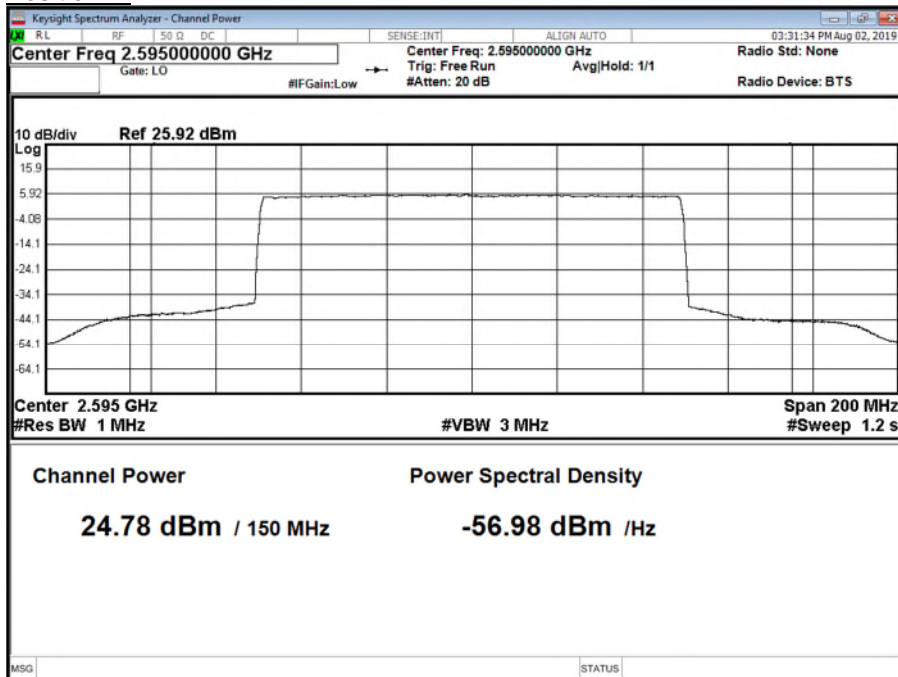


Product Service

Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position M



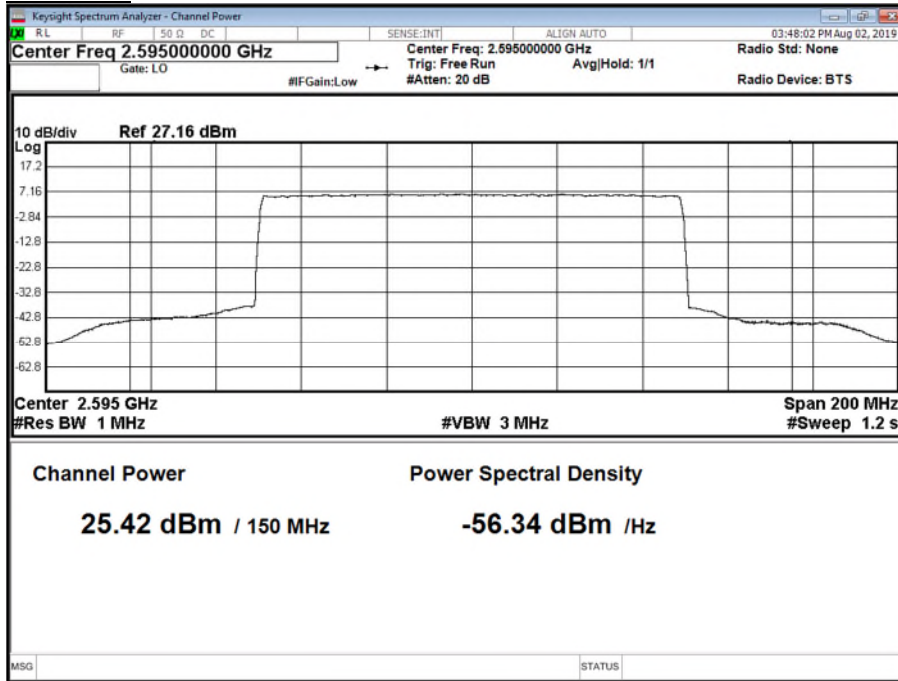
Antenna B - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position M



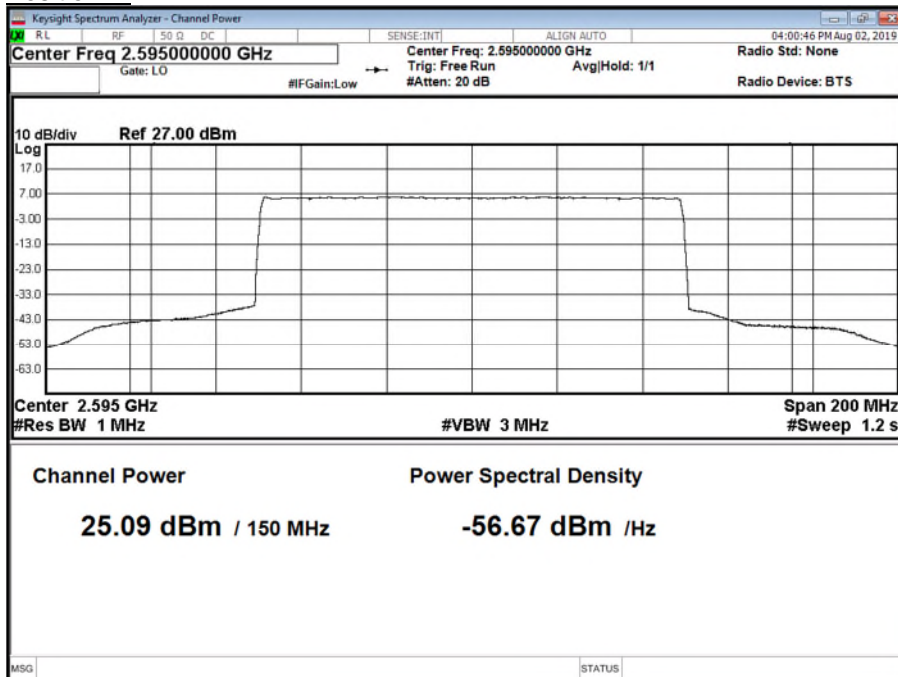


Product Service

Antenna C - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position M



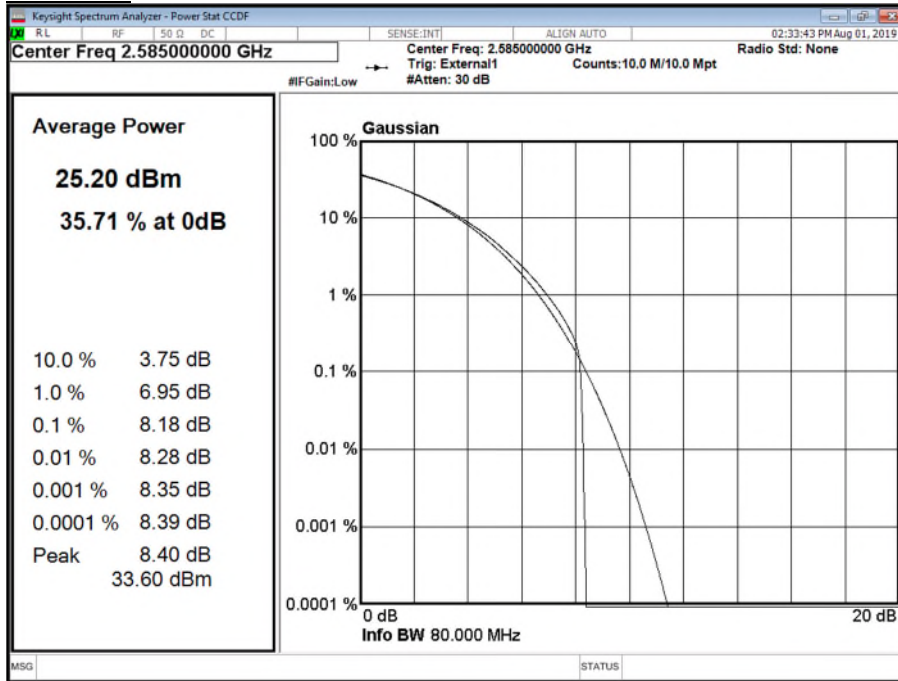
Antenna D - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position M



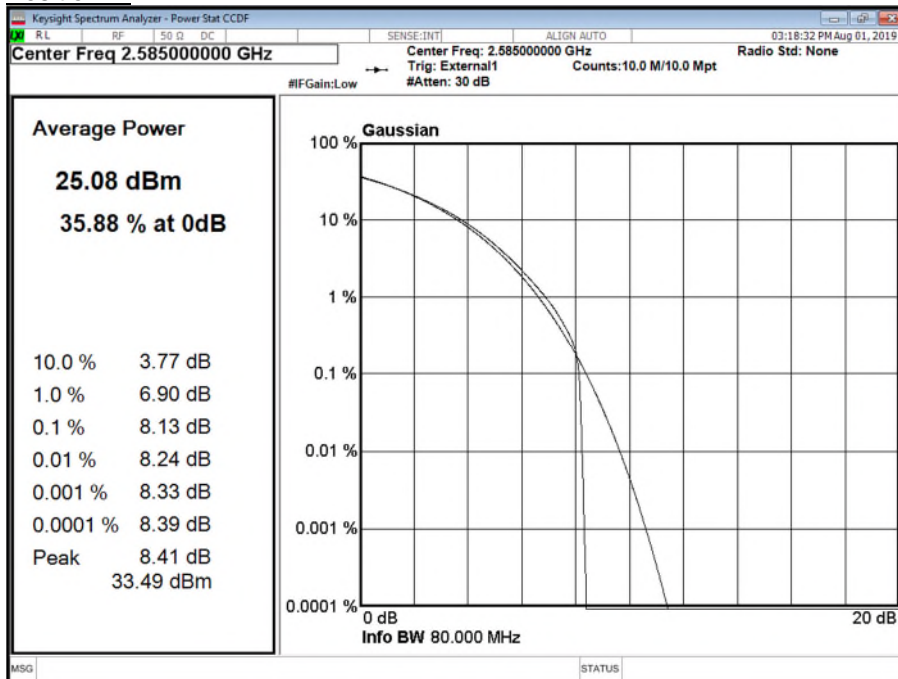


Product Service

Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M



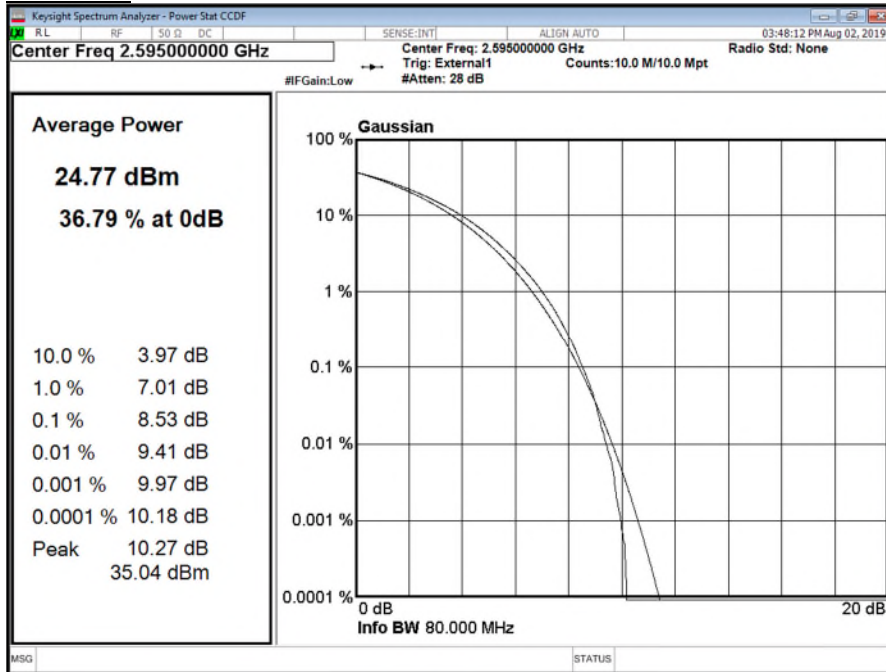
Antenna B - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M



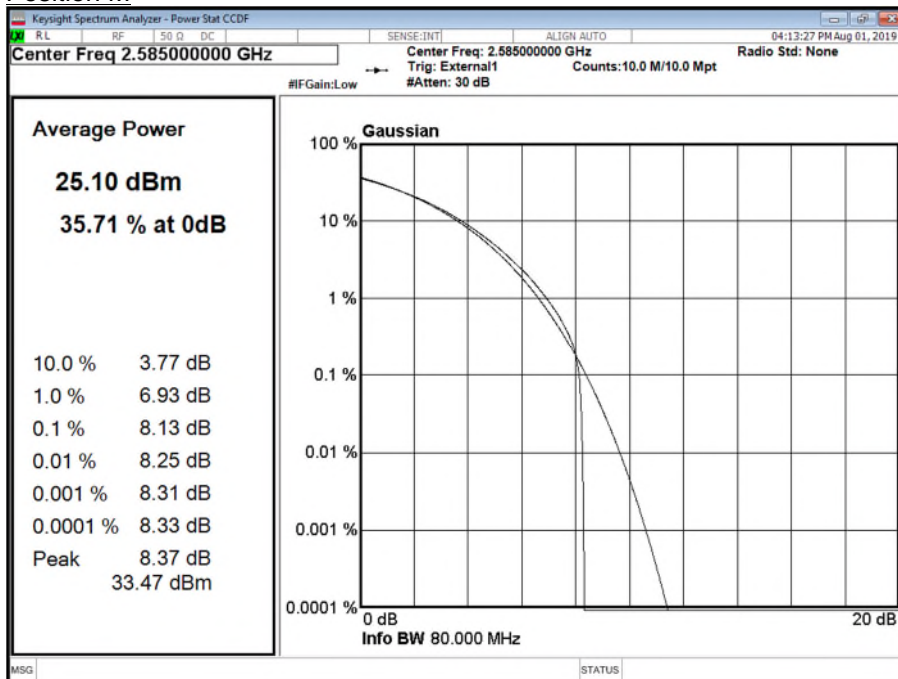


Product Service

Antenna C - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M



Antenna D - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M





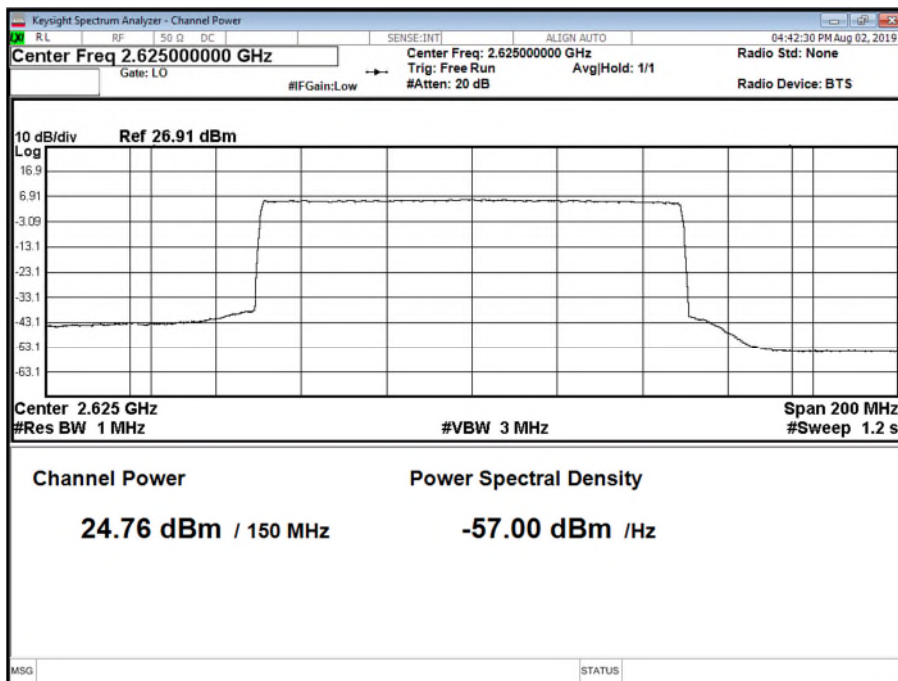
Product Service

Configuration B

Maximum Output Power 26 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position T		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK	100.0 MHz 60 kHz SCS	9.41	24.76	6.91
B	QPSK	100.0 MHz 60 kHz SCS	9.41	24.86	6.73
C	QPSK	100.0 MHz 60 kHz SCS	9.41	25.37	7.38
D	QPSK	100.0 MHz 60 kHz SCS	9.41	25.03	7.09
Total			-	31.03	13.05
A	QPSK	20.0 MHz 30 kHz SCS	8.20	25.29	14.17
B	QPSK	20.0 MHz 30 kHz SCS	8.16	25.21	14.26
C	QPSK	20.0 MHz 30 kHz SCS	8.15	25.05	13.88
D	QPSK	20.0 MHz 30 kHz SCS	8.10	25.13	14.05
Total			-	31.19	20.11

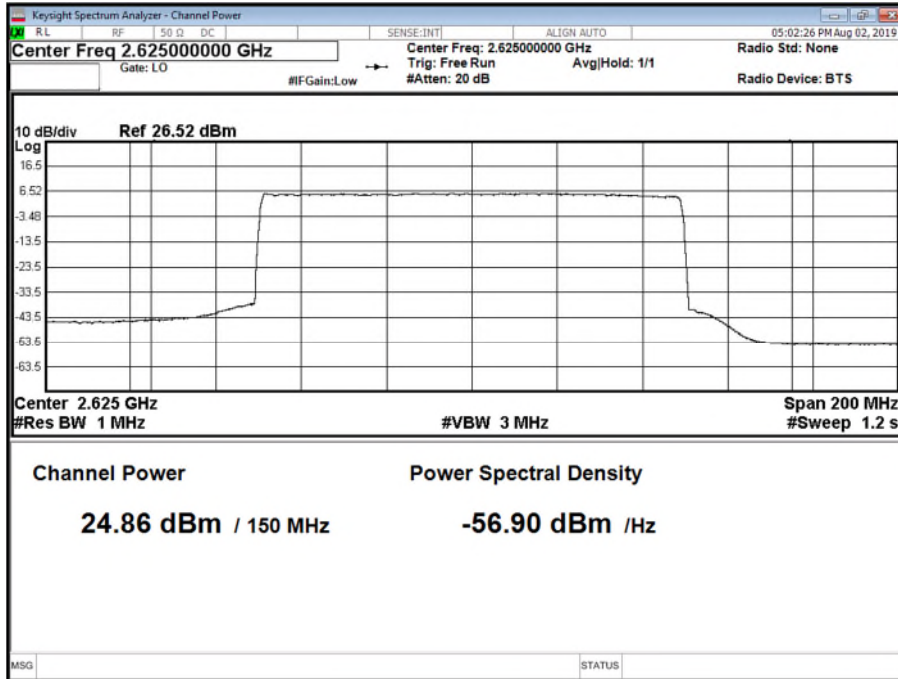
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position T



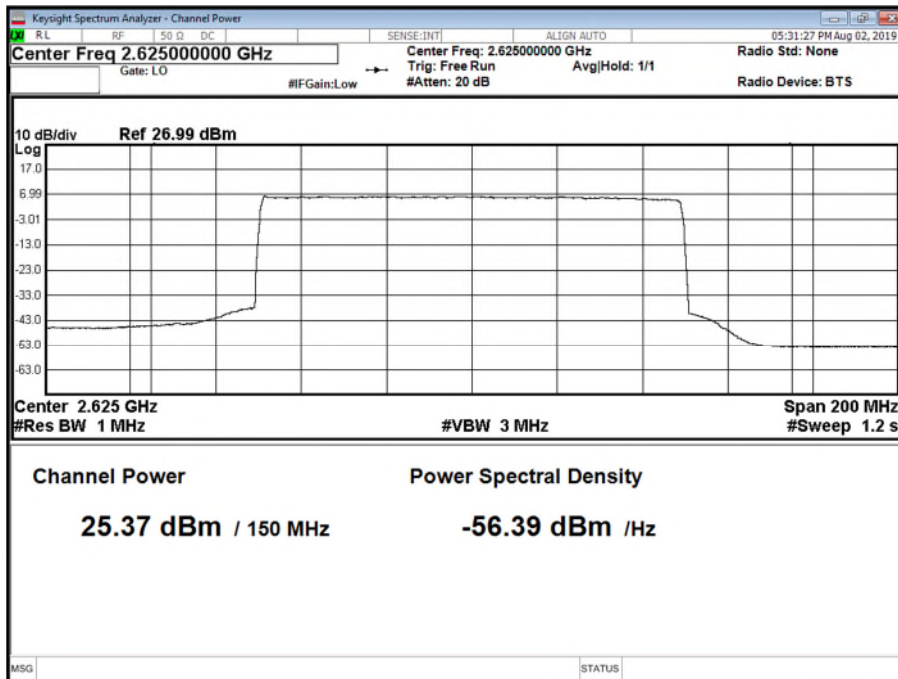


Product Service

Antenna B - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position T



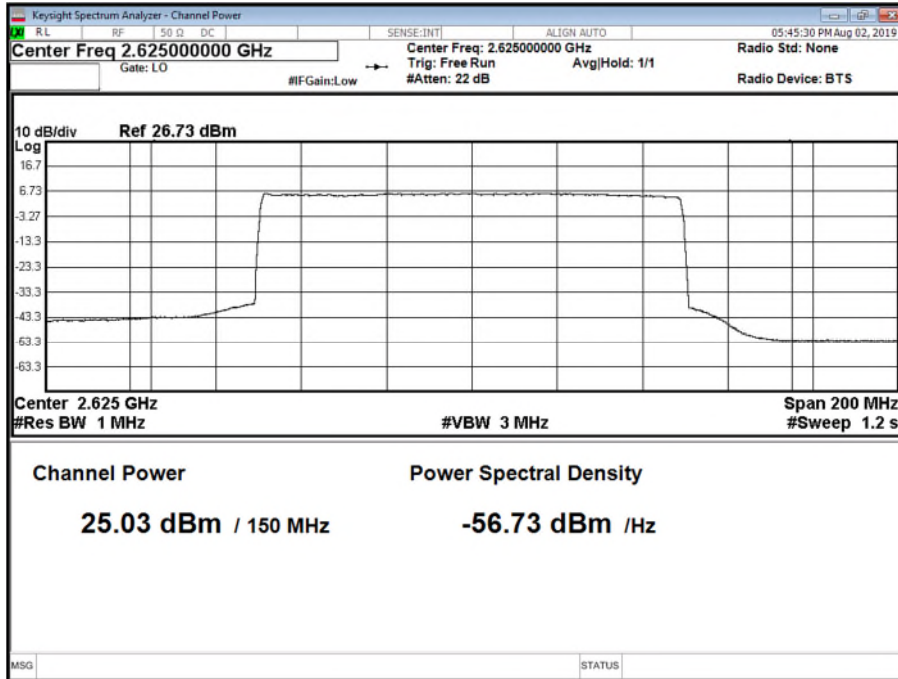
Antenna C - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position T



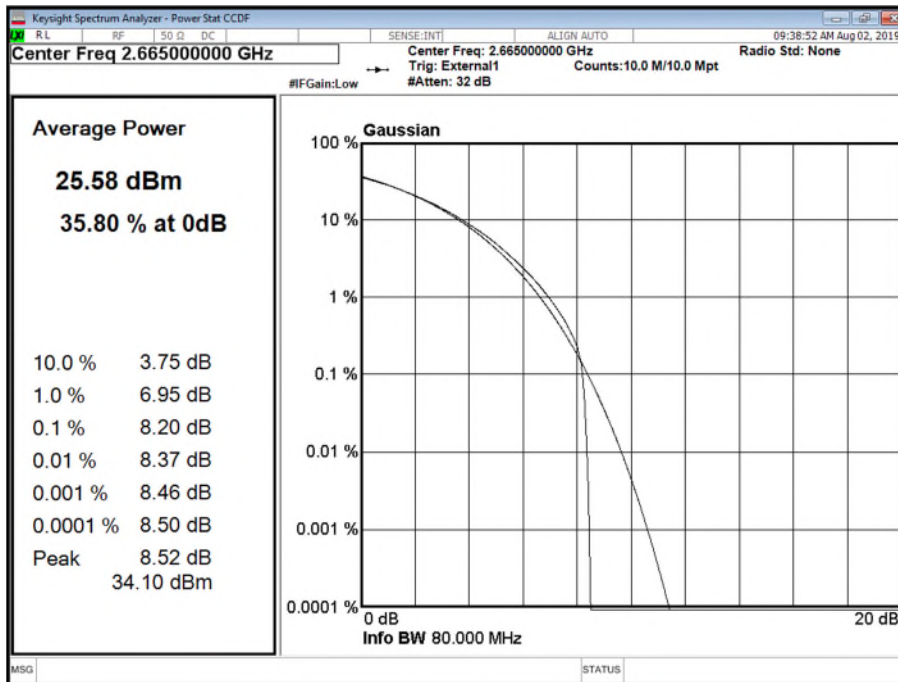


Product Service

Antenna D - NR Modulation QPSK - NR Carrier Bandwidth 100.0 MHz 60 kHz SCS - Channel Position T



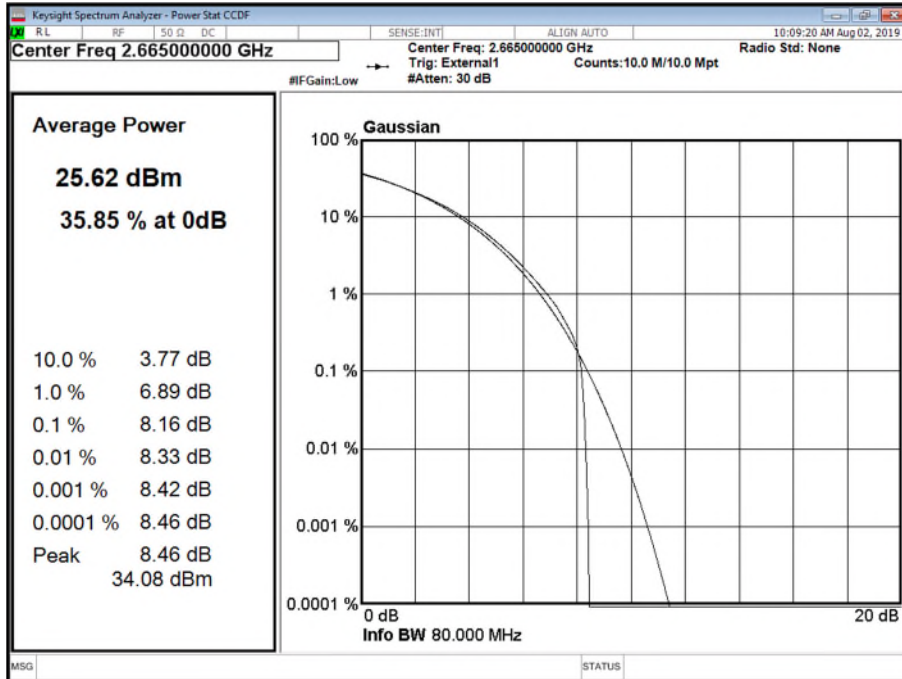
Antenna A - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position T



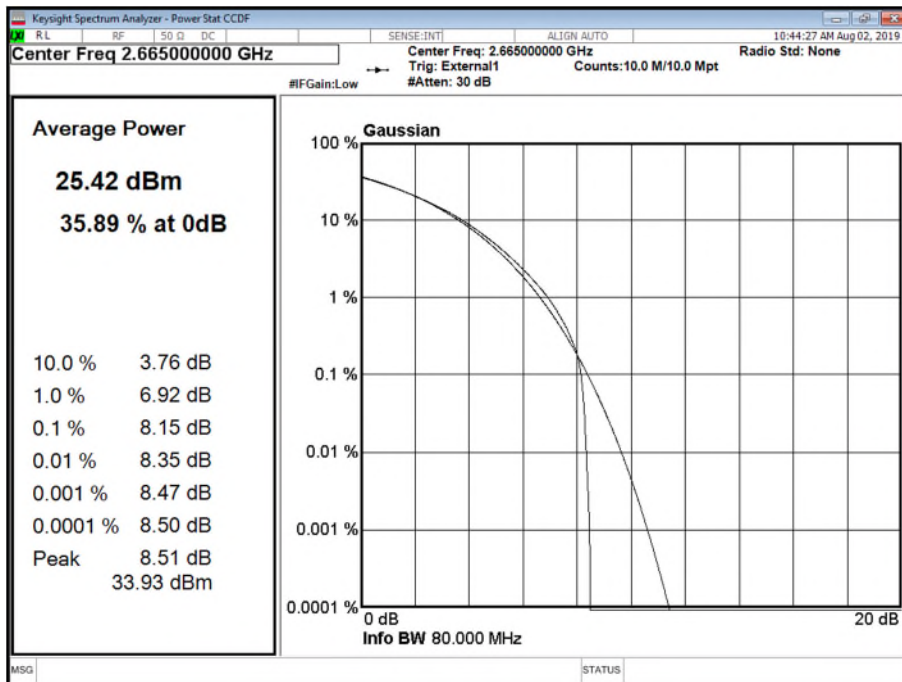


Product Service

Antenna B - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position T



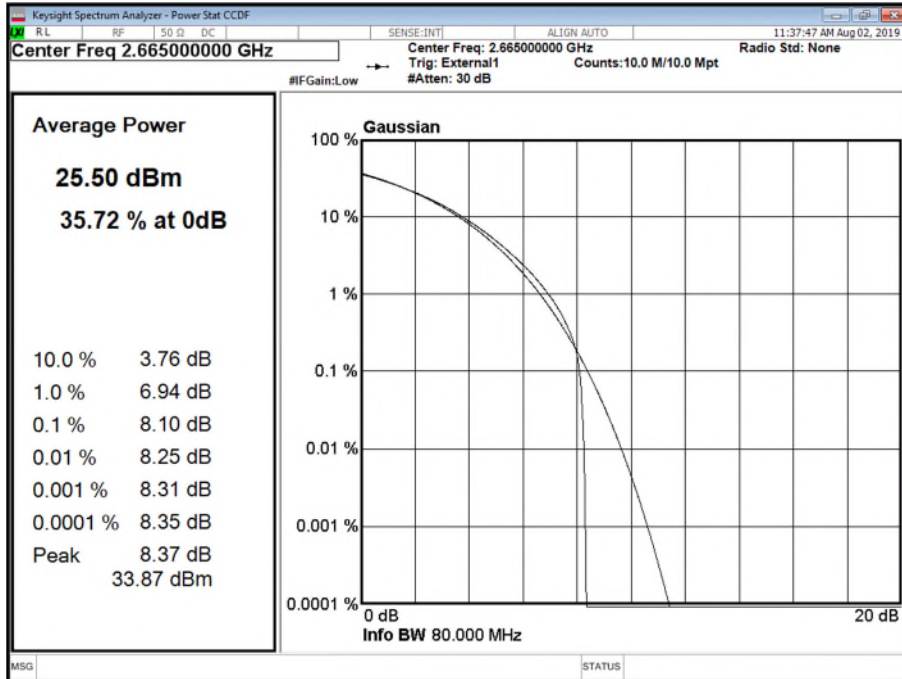
Antenna C - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position T





Product Service

Antenna D - NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position T





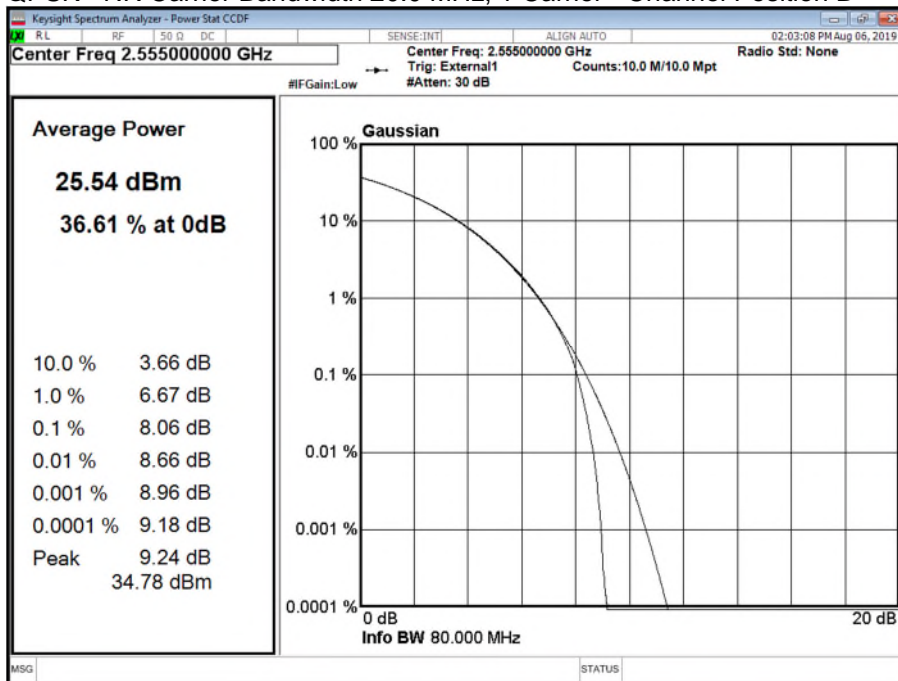
Product Service

Configuration C

Maximum Output Power 26 dBm

Antenna	NR / LTE Modulation	NR / LTE Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position B		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK + QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.06	25.51	8.34
B	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	10.75	25.05	7.93
C	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	10.73	25.58	8.44
D	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.06	25.17	8.00
Total			-	31.35	14.20

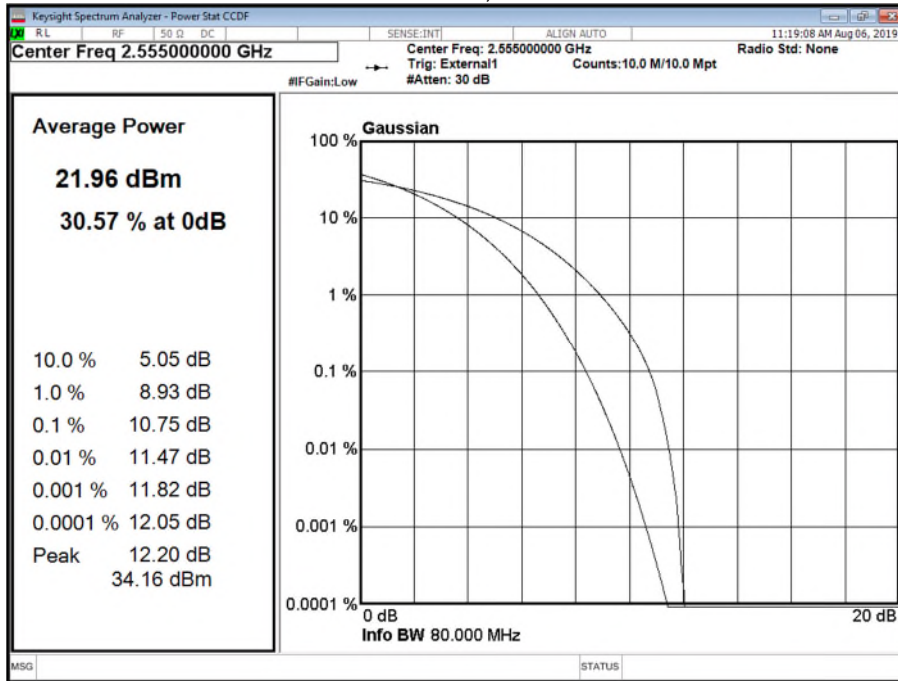
Antenna A – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position B



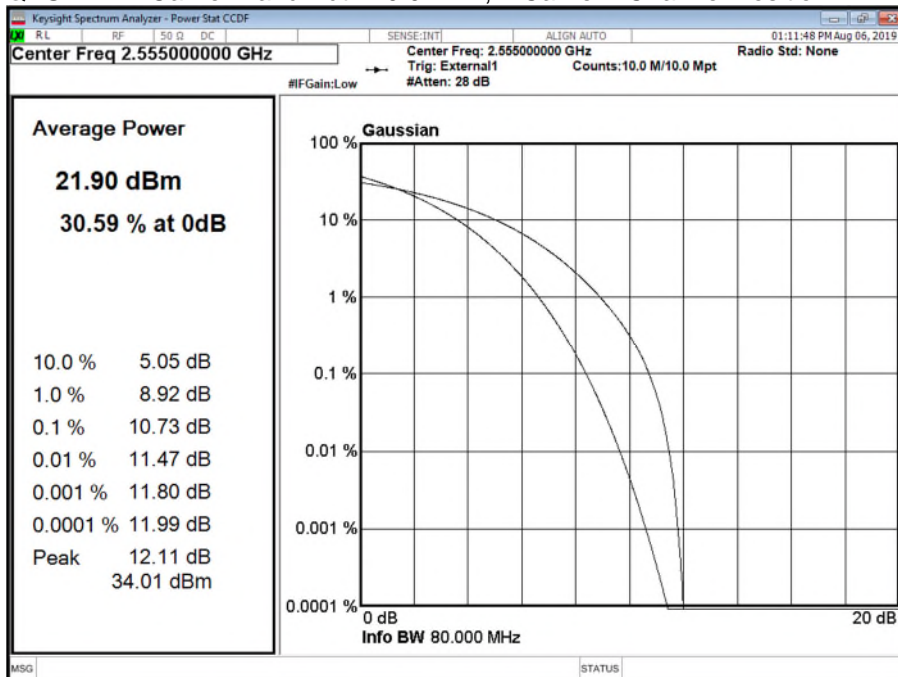


Product Service

Antenna B – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position B



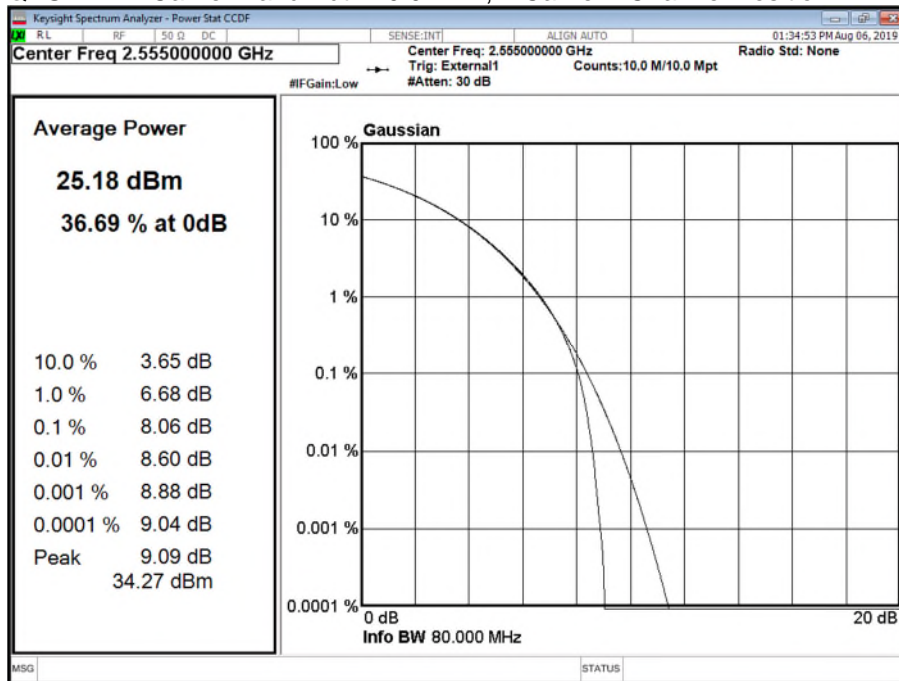
Antenna C – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position B





Product Service

Antenna D – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position B





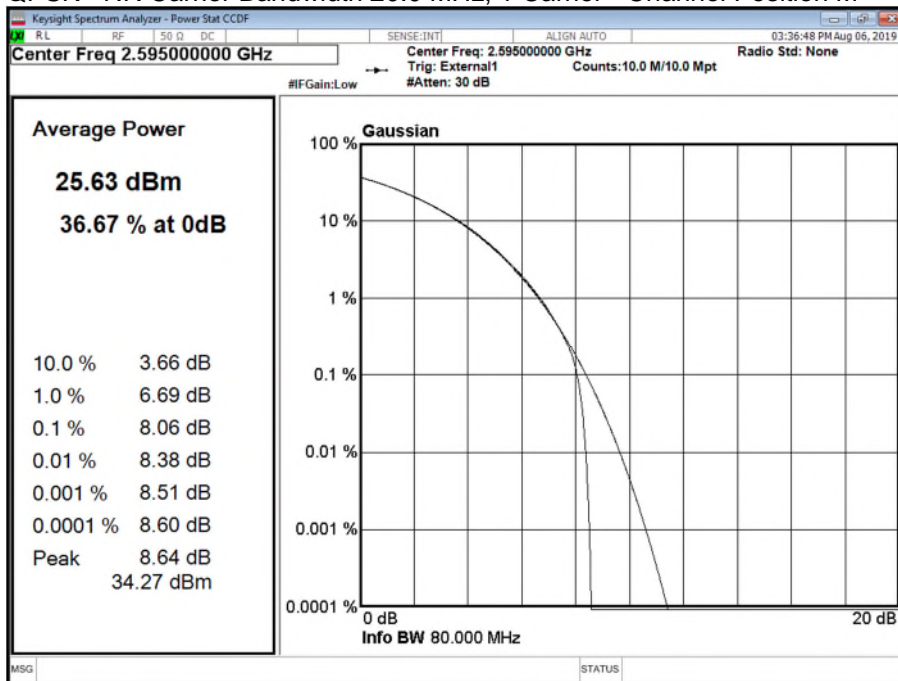
Product Service

Configuration C

Maximum Output Power 26 dBm

Antenna	NR / LTE Modulation	NR / LTE Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position M		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.06	25.57	8.101
B	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.04	25.65	8.261
C	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.06	25.93	8.485
D	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.04	25.66	8.307
Total			-	31.73	14.31

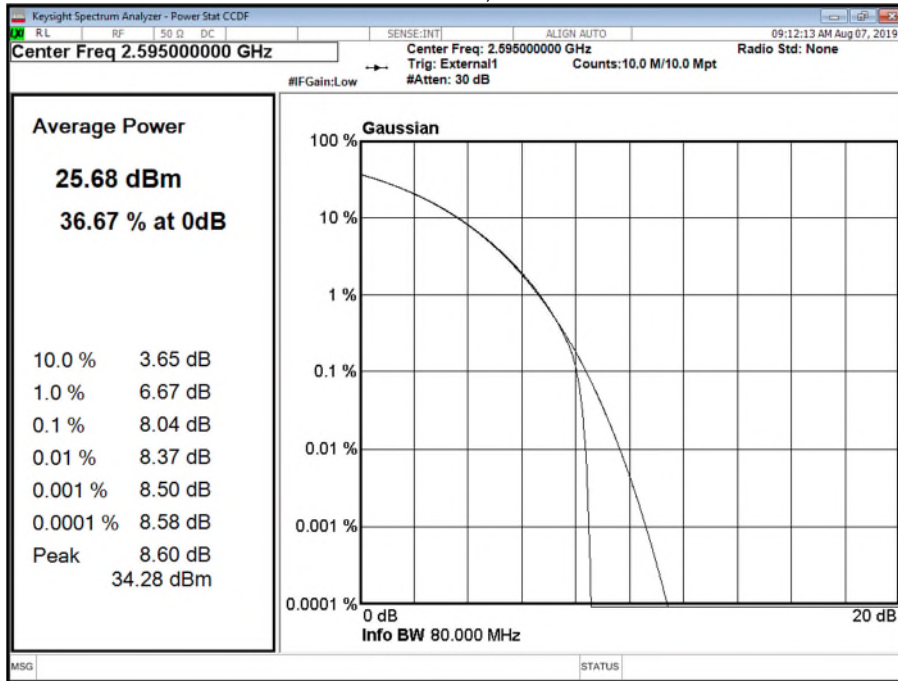
Antenna A – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position M



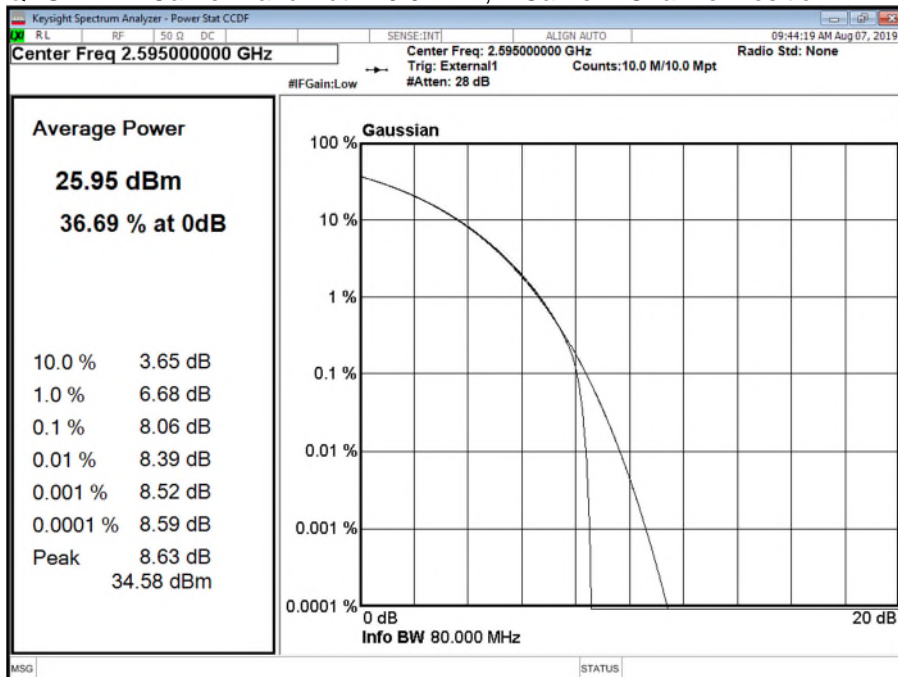


Product Service

Antenna B – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position M



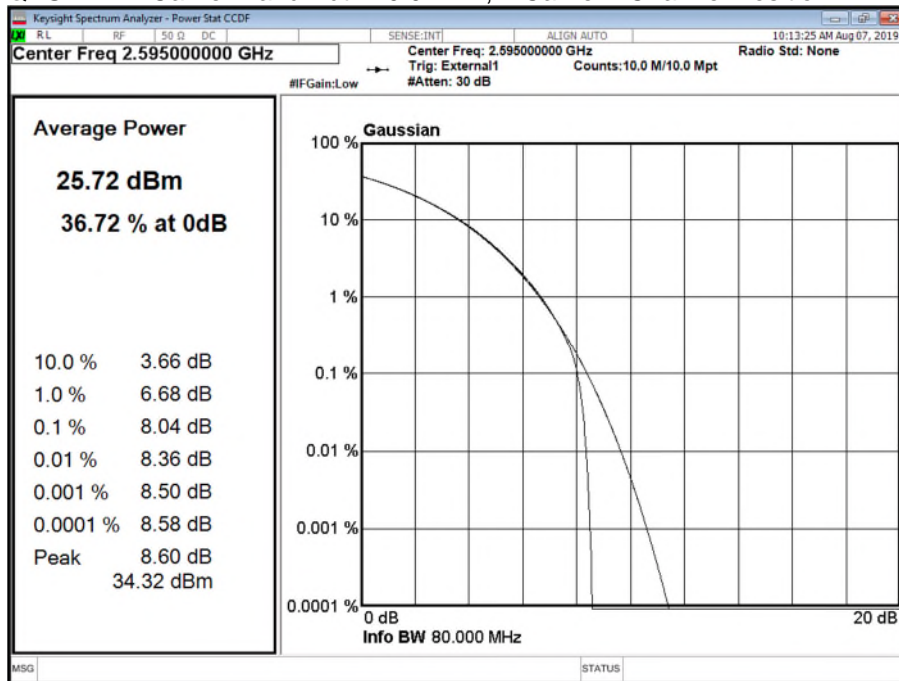
Antenna C – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position M





Product Service

Antenna D – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position M





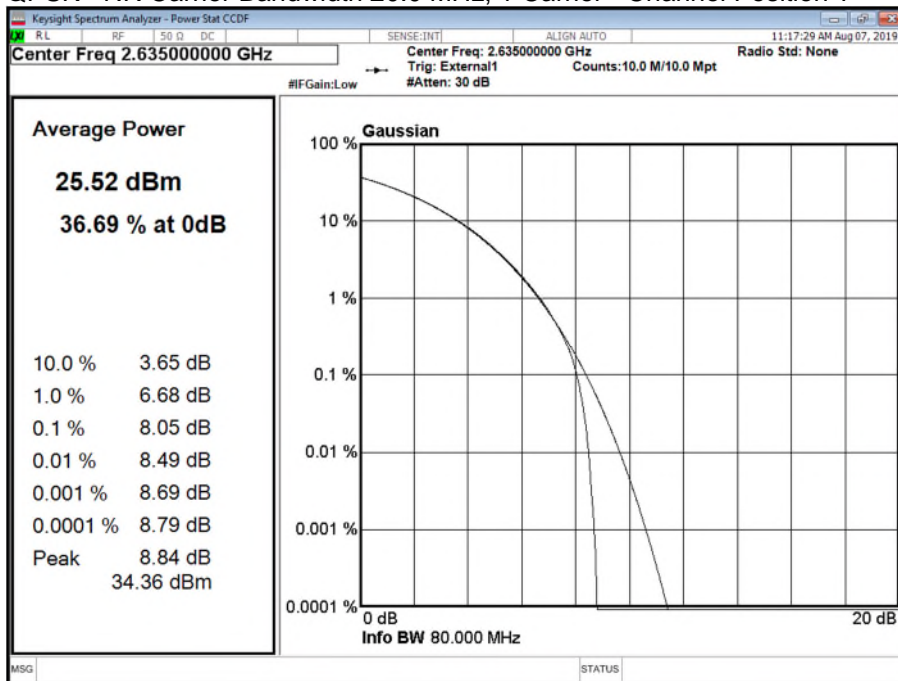
Product Service

Configuration C

Maximum Output Power 26 dBm

Antenna	NR / LTE Modulation	NR / LTE Carrier Bandwidth	Peak to Average Ratio (PAR) / Output Power		
			Channel Position T		
			PAR (dB)	Average Power	
dBm	dBm/MHz				
A	QPSK + QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.05	25.52	8.184
B	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.02	25.57	8.228
C	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.07	26.1	8.650
D	QPSK / QPSK	3 x LTE @ 20 MHz 1 x NR @ 20 MHz	8.03	25.85	8.594
Total			-	31.79	14.44

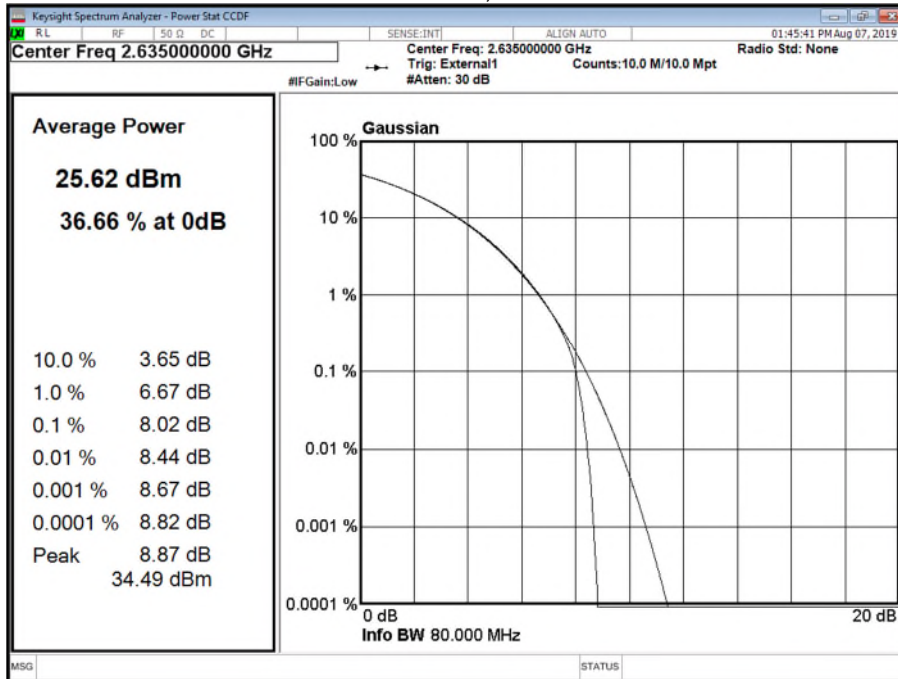
Antenna A – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position T



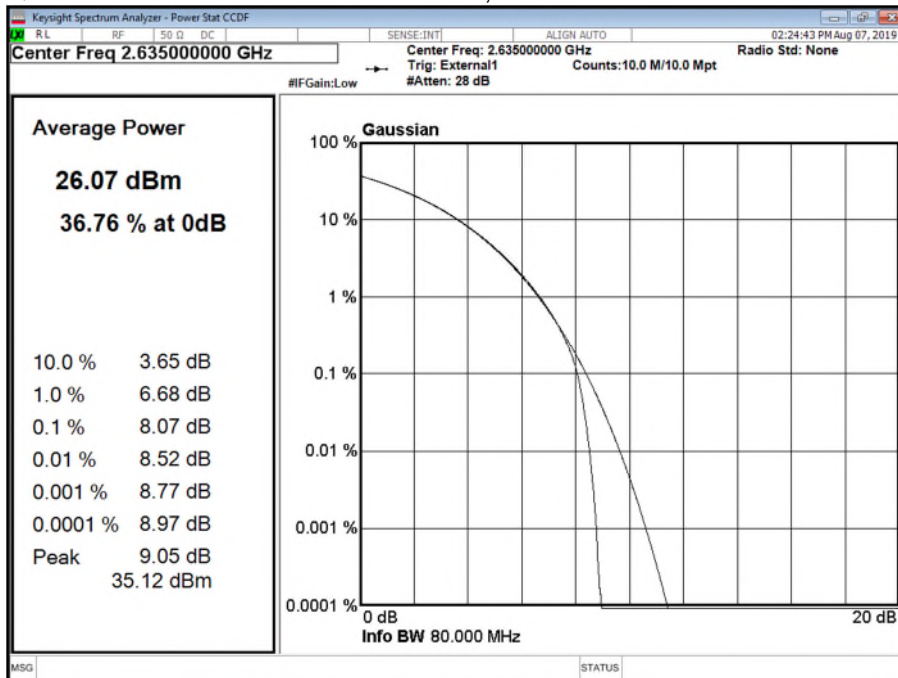


Product Service

Antenna B – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position T



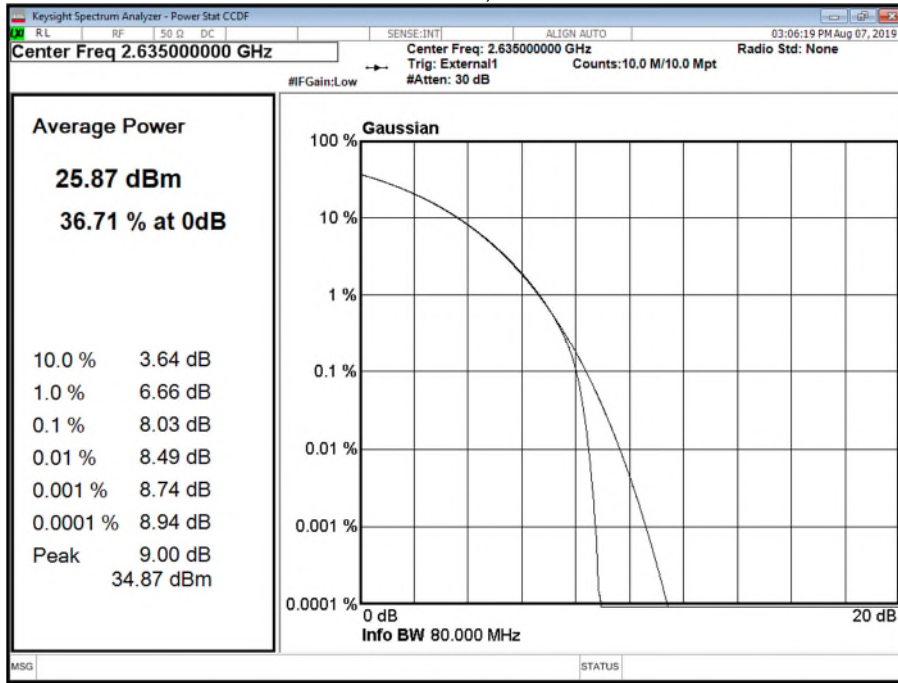
Antenna C – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position T





Product Service

Antenna D – LTE Modulation QPSK – LTE Bandwidth 20 MHz, 3 Carriers, NR Modulation QPSK - NR Carrier Bandwidth 20.0 MHz, 1 Carrier - Channel Position T



Limit	
Peak Power	≤500 W or ≤+57 dBm
Peak to Average Ratio	13 dB



Product Service

2.2 OCCUPIED BANDWIDTH

2.2.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1049
FCC CFR 47 Part 27, Clause 27.53

2.2.2 Date of Test and Modification State

30 July and 02 August 2019 - Modification State 0

2.2.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.4 Environmental Conditions

Ambient Temperature 20-22°C
Relative Humidity 45-55%

2.2.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01.

2.2.6 Test Results

Configuration A

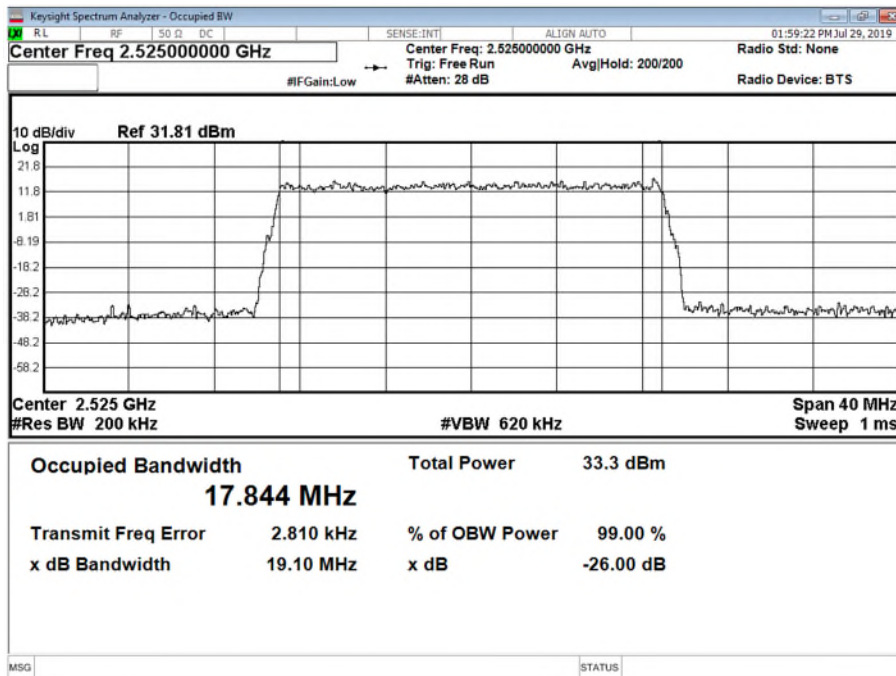
Maximum Output Power 26 dBm

Antenna	LTE Modulation	LTE Carrier Bandwidth	Result (KHz)					
			Channel Position B		Channel Position M		Channel Position T	
			Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
A	QPSK	20.0 MHz	17,844.02	19,100.24	17,848	18,590	17,908.03	18,942.86
B	QPSK	20.0 MHz	17,848.40	19,065.36	17,849	18,580	17,910.34	19,029.40
C	QPSK	20.0 MHz	17,880.09	18,927.52	17,852	18,610	17,891.98	19,123.90
D	QPSK	20.0 MHz	17,900.99	19,075.63	17,848	18,580	17,889.66	19,051.34

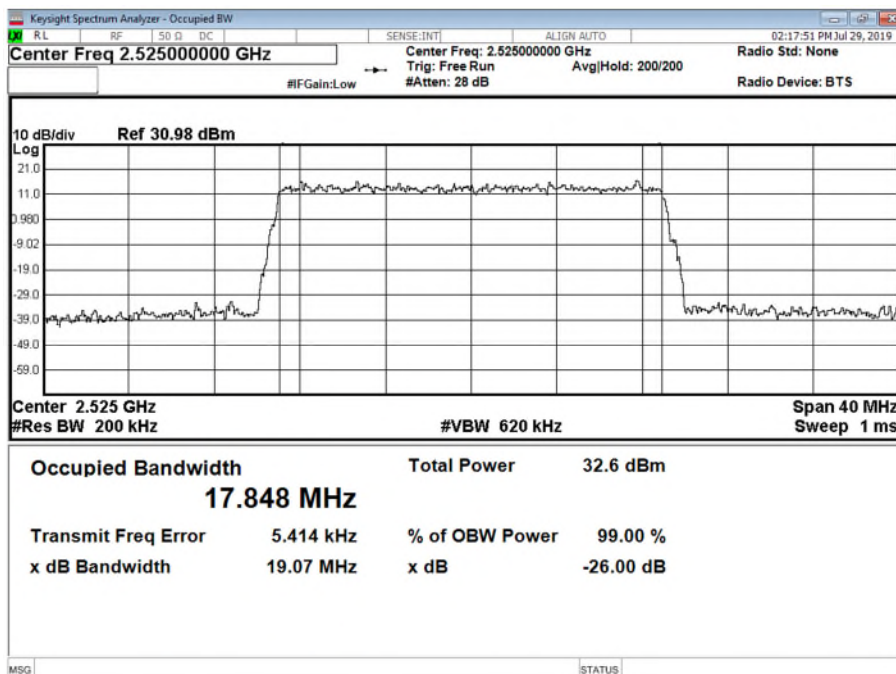


Product Service

Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B



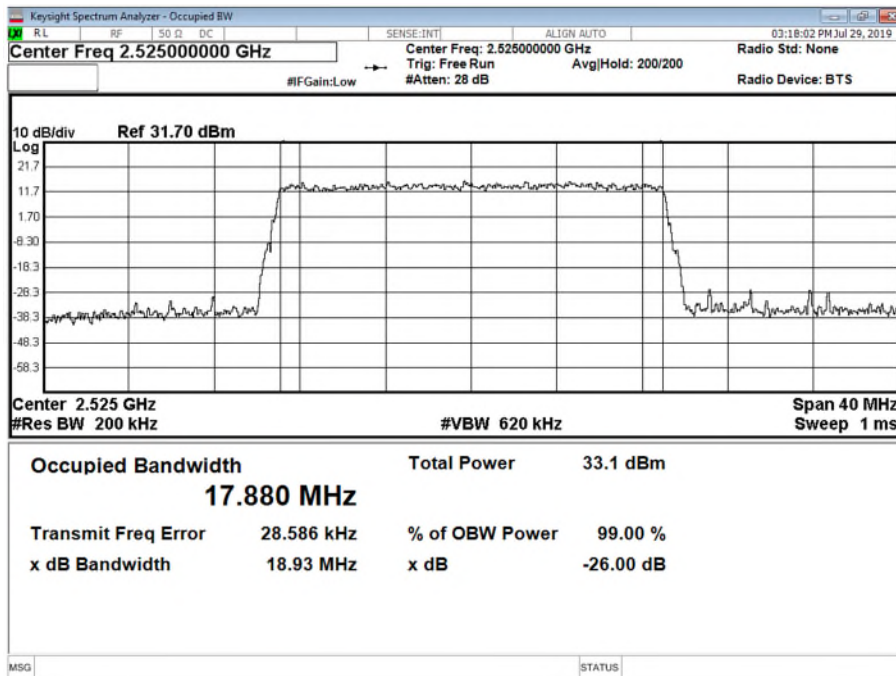
Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B



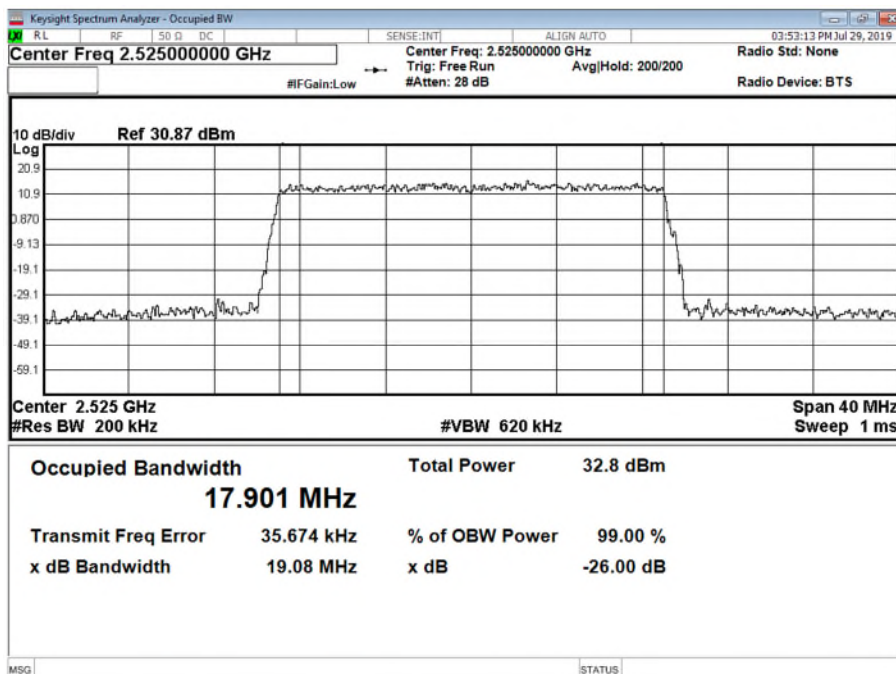


Product Service

Antenna C - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B



Antenna D - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position B





Product Service

Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 20.0 MHz - Channel Position M

