

Band	n261		Bear	n ID	11 + 1	30
Frequency Range	18GHz-27.47	75647	Cha		Midd	
Antenna polarity	Horizont		Test di		2m	
	11012011	.81	Test u			N 12
Swept SA					Marker	1 212
	ut Z: 50 Ω #Atten: 20 dB rrections: On	PNO: Fast Gate: Off	Avg Type: Power (RMS Avg Hold:>100/100		elect Marker	
Align: Auto Free	q Ref: Int (S)	IF Gain: Low	Trig: Free Run		larker 1	
	E: Adaptive	Sig Track: Off	BAland 07		larker Frequency	Settings
1 Spectrum V Scale/Div 10 dB	Ref Level 0.00	d Due		331 5 GHz 2 43.02 dBm	7.331453750 GHz	
Log	Rer Level 0.00	abm		45.02 dibili	Peak Search	Peak Search
-10.0 Trace 1 Pass						Pk Search
					Next Peak	Config
-20.0					Next Pk Right	Properties
-30.0						Marker
-40.0					Next Pk Left	Function
			and a Dealerable	and the second damage of the	Minimum Peak	Marker→
-50.0	1. Aller		and the second product of the line product of the second se	and a state of the second state	Dk Dk Carry	
-60.0					Pk-Pk Search	Counter
-70.0					Marker Delta	
-80.0					Mkr→CF	
-90.0					Mkr→Ref Lvl	
				C	ontinuous Peak	
Start 18.000 GHz #Res BW 1.0 MHz	#Video BW 3.0	MHz*	Steep ~17.6 r		earch On	
	ug 12, 2020				Off	
11 (11	1:37:55 PM					
Note: The test results alre	ady include the corr	ection factor	(corrections: O	n).		
Band	n261		Bear		11 + 1	39
Frequency Range	18GHz-27.47	75GHz	Cha	nnel	Midd	le
Antenna polarity	Vertica		Test di	stance	2m	
Spectrum Analyzer 1				5	Marker	v 514
Swept SA	ut Z: 50 Ω #Atten: 20 dB	PNO: Fast	Avg Type: Power (RMS			
Coupling: DC Cor	rrections: On	Gate: Off	Avg Hold:>100/100		elect Marker larker 1	
	q Ref: Int (S) E: Adaptive	IF Gain: Low Sig Track: Off	Trig: Free Run	ANNNN		Y
1 Spectrum			Mkr1 27.		larker Frequency	Settings
1 Spectrum v Scale/Div 10 dB	Ref Level 0.00	dBm		369 8 GHz 2	larker Frequency 7.369827500 GHz	
Scale/Div 10 dB	Ref Level 0.00	dBm			· · ·	Settings Peak Search
Scale/Div 10 dB	Ref Level 0.00	dBm		369 8 GHz 2	7.369827500 GHz Peak Search	Peak Search Pk Search
Scale/Div 10 dB Log -10.0	Ref Level 0.00	dBm		369 8 GHz 2	7.369827500 GHz	Peak Search
Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0	Ref Level 0.00	dBm		369 8 GHz 2	7.369827500 GHz Peak Search	Peak Search Pk Search
Scale/Div 10 dB Log -10.0	Ref Level 0.00	dBm		369 8 GHz 2	7.369827500 GHz Peak Search Next Peak Next Pk Right	Peak Search Pk Search Config Properties Marker
Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0	Ref Level 0.00	dBm		369 8 GHz 2	7.369827500 GHz Peak Search Next Peak	Peak Search Pk Search Config Properties
Scale/Div 10 dB Log -10.0 -20.0 -30.0 -40.0				369 8 GHz 46.43 dBm	7.369827500 GHz Peak Search Next Peak Next Pk Right	Peak Search Pk Search Config Properties Marker
Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 -30.0 -40.0 -50.0				369 8 GHz 46.43 dBm	7.369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 -30.0 -40.0 -50.0				369 8 GHz 46.43 dBm	7.369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left	Peak Search Pk Search Config Properties Marker Function
Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 -30.0 -40.0 -50.0				369 8 GHz 46.43 dBm	7.369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0				369 8 GHz 46.43 dBm	7.369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0				369 8 GHz 46.43 dBm	7.369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0				369 8 GHz 46.43 dBm	7.369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0				369 8 GHz 46.43 dBm	7. 369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF Mkr→Ref Lvl ontinuous Peak	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0				369 8 GHZ 46.43 dBm	7. 369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF Mkr→CF Mkr→Ref Lvl ontinuous Peak earch	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0	#Video BW 3.0		I let to deal	369 8 GHz 46.43 dBm	7. 369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF Mkr→Ref Lvl ontinuous Peak	Peak Search Pk Search Config Properties Marker Function Marker→
Scale/Div 10 dB Log Trace 1 Pass -10.0				369 8 GHz 46.43 dBm 46.43 dBm 46.43 dBm 40 db 40	7.369827500 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF Mkr→CF Mkr→Ref Lvl ontinuous Peak earch On	Peak Search Pk Search Config Properties Marker Function Marker→



Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-46.43	-43.02	-41.39	-13	-28.39	Pass



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

DASS

1 Spectrum

Log

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Swept SA

PASS

1 Spectrum

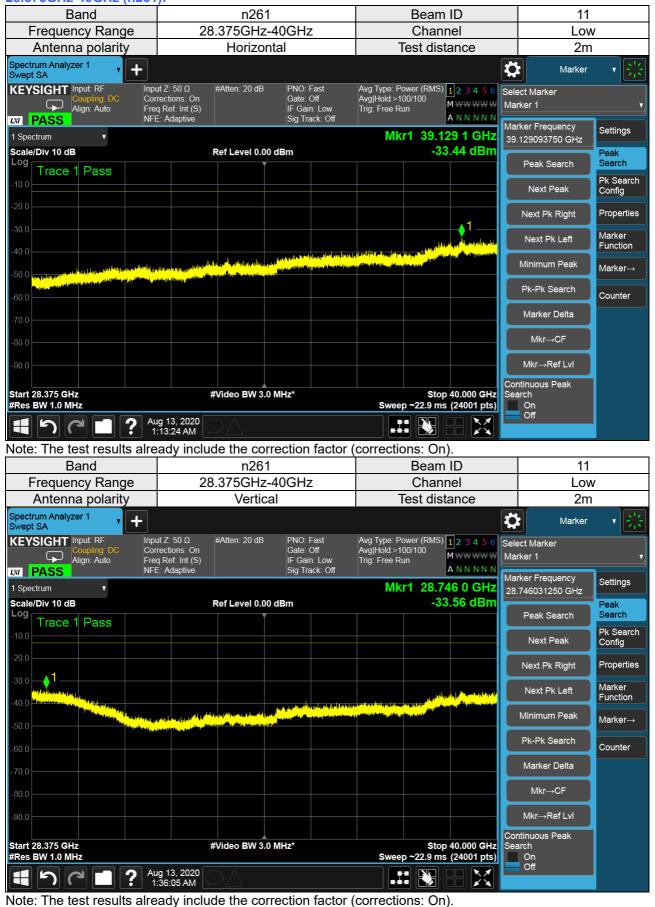
Log



Beam II	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 13	-30.68	-30.39	-27.52	-13	-14.52	Pass



28.375GHz-40GHz (n261):





Band	n261		Boa	m ID	11	
Frequency Range	28.375GHz-4	0647		annel	Midd	ما
Antenna polarity	Horizonta			istance	2m	
Spectrum Analyzer 1	TIONZONI		1051 0	ſ	Marker	, <u></u>
	ut Z: 50 Ω #Atten: 20 dB	PNO: Fast	Avg Type: Power (RM		Select Marker	· [4]
Coupling: DC Cor	rrections: On q Ref: Int (S)	Gate: Off IF Gain: Low	Avg Hold:>100/100 Trig: Free Run		Marker 1	Ŧ
	E: Adaptive	Sig Track: Off	Ing. Free Kun	ANNNNN	Marker Frequency	
1 Spectrum			Mkr1 39		39.156703125 GHz	Settings
Scale/Div 10 dB	Ref Level 0.00 d	Bm	-	33.03 dBm	Peak Search	Peak Search
-10.0 Trace 1 Pass					Next Peak	Pk Search Config
-20.0					Next Pk Right	Properties
-30.0					Next Pk Left	Marker Function
-40.0				A STATE OF A	Minimum Peak	Marker→
-60.0					Pk-Pk Search	Counter
-70.0					Marker Delta	
-80.0					Mkr→CF	
-90.0					Mkr→Ref Lvl	
Start 28.375 GHz #Res BW 1.0 MHz	#Video BW 3.0 M	IHz*			Continuous Peak Search On	
	ug 13, 2020 I:08:03 AM				Off	
Note: The test results alre						
	eady include the corre	ection factor	(corrections: C			
Band	n261		Bea	Dn). m ID	11	
Band Frequency Range	n261 28.375GHz-4		Bea Cha	Dn). m ID annel	Midd	
Band Frequency Range Antenna polarity	n261		Bea Cha	Dn). m ID		
Band Frequency Range Antenna polarity Spectrum Analyzer 1	n261 28.375GHz-4		Bea Cha	Dn). m ID annel istance	Midd	
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC	n261 28.375GHz-4 Vertical ut Z: 50 Ω #Atten: 20 dB rrections: On	0GHz PNO: Fast Gate: Off	Avg Type: Power (RM Avg Hold:>100/100	Dn). m ID annel istance	Midd 2m	
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto	n261 28.375GHz-4 Vertical ut Ζ: 50 Ω #Atten: 20 dB	OGHz PNO: Fast	Bea Cha Test d	Dn). m ID annel istance ^{IS)} 12 3 4 5 6 MWWWWWW A NN NN N	Midd 2m Marker Select Marker Marker 1	
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto Fre	n261 28.375GHz-4 Vertical ut Ζ: 50 Ω rrections: On vg Ref. Int (S)	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Bea Cha Test d Avg Type: Power (RM Avg]Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^{IS)} 12 3 4 5 6 MWWWWW A NN NN	Midd 2m Marker Select Marker	
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Log Trace 1 Pass	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On vg Ref: Int (S) E: Adaptive	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Bea Cha Test d Avg Type: Power (RM Avg]Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Marker Select Marker Marker 1 Marker Frequency	Settings
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto Fre Coupling: DC Align: Auto Scale/Div 10 dB	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On vg Ref: Int (S) E: Adaptive	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Bea Cha Test d Avg Type: Power (RM Avg]Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Carlor Select Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Peak	Settings Peak Search Pk Search Config
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto Trace 1 Pass -10.0 Frequency Range Coupling: Coupling: DC Align: Auto Frequency Range Coupling: DC Align: Auto Frequency Range Range Coupling: DC Align: Auto Frequency Range Range Coupling: DC Frequency Range Range Coupling: DC Frequency Range	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On vg Ref: Int (S) E: Adaptive	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Bea Cha Test d Avg Type: Power (RM Avg]Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Marker Select Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Peak Next Peak	Settings Peak Search Pk Search Config Properties
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 1	n261 28.375GHz-4 Vertical ut Z: 50 Ω #Atten: 20 dB gRef. Int (S) E: Adaptive Ref Level 0.00 d	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Bea Cha Test d Avg Type: Power (RM Avg Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Marker Select Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Peak Next Pk Right Next Pk Left	V Example 2 Constraints of the search Pk Search Pk Search Properties Marker Function
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 -20.0 -20.0 -50.0	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 d	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Bea Cha Test d Avg Type: Power (RM Avg Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Marker Select Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Peak Next Peak	Settings Settings Peak Search Pk Search Config Properties Marker Function Marker→
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Log Trace 1 Pass 10.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 d	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Bea Cha Test d Avg Type: Power (RM Avg Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Marker Select Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak	V Example 2 Constraints of the search Pk Search Pk Search Properties Marker Function
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 -20.0 -20.0 -50.0	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 d	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Bea Cha Test d Avg Type: Power (RM Avg Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Marker Select Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search	Settings Settings Peak Search Pk Search Config Properties Marker Function Marker→
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Cor Align: Auto PASS 1 Spectrum Scale/Div 10 dB Cor Align: Auto Align: Auto Fre NFI Scale/Div 10 dB Cor Align: Auto Align: Auto Align: Auto Align: Auto Align: Auto Align: Auto Align: Auto Align: Auto Align: Align: A	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 d	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Bea Cha Test d Avg Type: Power (RM Avg Hold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance ^(S) 1 2 3 4 5 6 MWWWWW A NN N N N 4 11 3 GHz	Midd 2m Control 2m Marker Select Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Pk Right Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta	Settings Settings Peak Search Pk Search Config Properties Marker Function Marker→
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 -20.0 -20.0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	n261 28.375GHz-4 Vertical ut Z: 50 Ω rrections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 d	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm Uten (April) Adapted to the optimized of the optimi	Bea Cha Test d AvgType: Power (RM AvgHold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance IS) 1 2 3 4 5 6 MWWWWW A N N N N N 3.411 3 GHz 25.53 dBm	Midd 2m Comparison Marker Marker 1 Marker Frequency 28.411328125 GHz Peak Search Next Peak Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF	V Example of the search Peak Search Pk Search Pk Search Properties Marker Function Marker A
Band Frequency Range Antenna polarity Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto PASS 1 Spectrum Scale/Div 10 dB Log Trace 1 Pass -10.0 -20	n261 28.375GHz-4 Vertical ut Z: 50 Ω gRef. Int (S) E: Adaptive Ref Level 0.00 d	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm Uten (April) Adapted to the optimized of the optimi	Bea Cha Test d AvgType: Power (RM AvgHold:>100/100 Trig: Free Run Mkr1 28	Dn). m ID annel istance IS) 1 2 3 4 5 6 M WW WW W A N N N N N 3.411 3 GHz 25.53 dBm	Midd 2m Continuous Peak	Exerch Settings Search Pk Search Pk Search Properties Marker Function Marker→

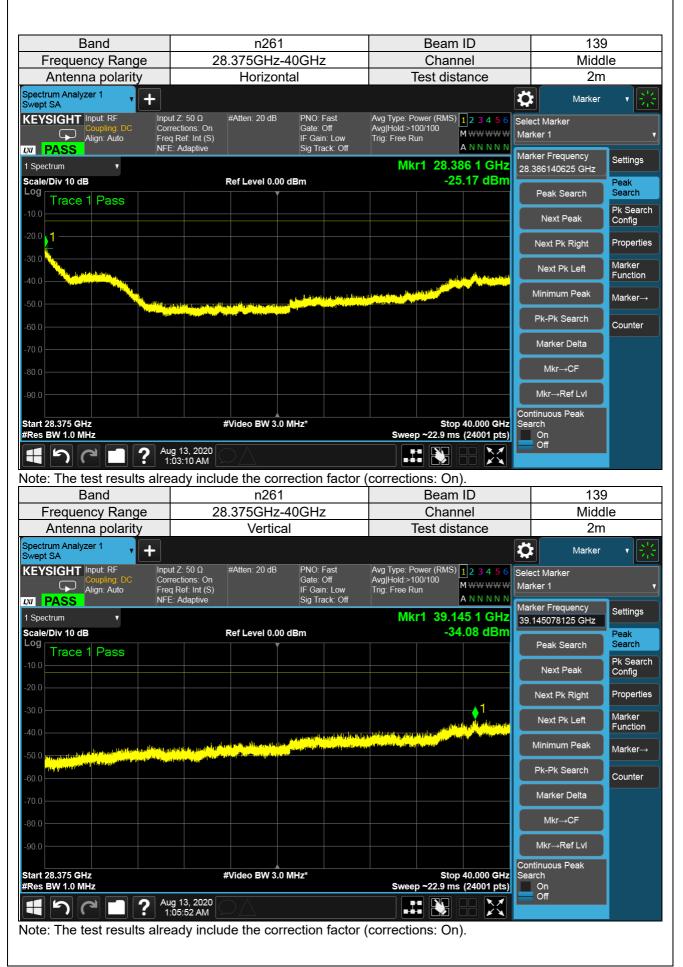


Band	n261		Bea	am ID	11	
Frequency Range	28.375GHz-4	IOGH7		annel	High	1
Antenna polarity	Horizont			listance	2m	
pectrum Analyzer 1				ſ	🏹 Marker	v St
Coupling: DC Align: Auto	ut Z: 50 Ω #Atten: 20 dB rections: On q Ref: Int (S)	PNO: Fast Gate: Off IF Gain: Low	Avg Type: Power (RI Avg Hold:>100/100 Trig: Free Run	MS) 1 2 3 4 5 6	Select Marker Marker 1	
	E: Adaptive	Sig Track: Off	Nilerd Of		Marker Frequency	Settings
Spectrum V	D -6110.00	18		9.174 1 GHz	39.174140625 GHz	
cale/Div 10 dB	Ref Level 0.00 c	aBm		-37.08 dBm	Peak Search	Peak Search
10.0 Trace 1 Pass					Next Peak	Pk Searc Config
20.0					Next Pk Right	Propertie
30.0				•1	Next Pk Left	Marker Function
40.0 50.0		ويتقاربون ويتقاربون والمراجع	a ha tha bure of the other delay is a left		Minimum Peak	Marker→
		ang ad ana filian falitin akay pad at parahiki dhan Ang	A CONTRACTOR OF		Pk-Pk Search	Counter
70.0					Marker Delta	
80.0					Mkr→CF	
90.0					Mkr→Ref Lvl	
tart 28.375 GHz	#Video BW 3.0 M	MHz*			Continuous Peak Search	
	ug 13, 2020 2:28:46 AM		Sweep ~22.9	ms (24001 pts)	On Off	
ote: The test results alre		ection factor				
Band	n261		Bea	am ID	11	
Frequency Range	28.375GHz-4			annel	High	1
Antenna polarity	Vertical		Test c	listance	2m	
pectrum Analyzer 1						
						v E
Weept SA T CEYSIGHT Input: RF Coupling: DC Corr Align: Auto Freed	ut Z: 50 Ω #Atten: 20 dB rections: On q Ref. Int (S) F: Adaptive	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Power (Ri Avg Hold:>100/100 Trig: Free Run	MS) 12 3 4 5 6 M \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		- <u>-</u>
KEYSIGHT Input: RF Input: RF Coupling: DC Corr Align: Auto Free PASS NFE	rections: On	Gate: Off	Avg Hold:>100/100 Trig: Free Run	MS) <u>1</u> 2 3 4 5 6 M WW WW W A N N N N N	Marker Select Marker Marker 1 Marker Frequency	Settings
Weept SA T EYSIGHT Input: RF Coupling: DC Align: Auto T PASS Spectrum cale/Div 10 dB	rections: On q Ref: Int (S)	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold:>100/100 Trig: Free Run Mkr1 28	MS) <u>1</u> 2 3 4 5 6 M W W W W A N N N N N	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz	Peak
Image: Sector week sector s	rections: On q Ref: Int (S) E: Adaptive	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold:>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 M WWWWW A N N N N N 3.382 8 GHz	Marker Select Marker Marker 1 Marker Frequency	Peak Search Pk Searc
Weept SA T EYSIGHT Input: RF Coupling: DC Aign: Auto Aign: Auto Free Spectrum Cale/Div 10 dB Og Trace 1 Pass 0.0 1	rections: On q Ref: Int (S) E: Adaptive	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold:>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 M WWWWW A N N N N N 3.382 8 GHz	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search	Peak Search Pk Searc Config
Weept SA T EYSIGHT Input: RF Coupling: DC Corr Align: Auto Free Spectrum Cale/Div 10 dB 9 Trace 1 Pass 0.0 1 0.0 1	rections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 c	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 MWWWWW A NN NN N 3.382 8 GHz -18.87 dBm	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search Next Peak	Peak Search Pk Searc Config Propertie Marker
Weept SA T Imput: RF Coupling: DC Coupling: Auto Free Imput: RF Coupling: DC Align: Auto Free Spectrum cale/Div 10 dB 10.0 1 10.0 1 10.0 1 10.0 1	rections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 c	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 MWWWWW A NN NN N 3.382 8 GHz -18.87 dBm	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search Next Peak Next Pk Right	Peak Search Pk Searc Config Propertie Marker Function
Vept SA T Imput: RF Coupling: DC Coupling: DC Corr Align: Auto Free V PASS Spectrum Og Trace 1 Pass 1 1 20.0 1 30.0 1 30.0 1	rections: On q Ref. Int (S) E: Adaptive Ref Level 0.00 c	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold:>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 MWWWWW A NN NN N 3.382 8 GHz -18.87 dBm	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search Next Peak Next Pk Right Next Pk Left	Peak Search Pk Searc Config Propertie Marker Function
Spectrum Input: RF Input: RF Cale/Div 10 dB 7 7 PASS	rections: On g Ref. Int (S) E: Adaptive Ref Level 0.00 c	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 MWWWWW A NN NN N 3.382 8 GHz -18.87 dBm	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak	Peak Search Pk Searcl Config Properties Marker Function Marker→
Weept SA Input: RF Coupling: DC Align: Auto Align: Auto Free Spectrum Cale/Div 10 dB Og Trace 1 Pass 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1	rections: On g Ref. Int (S) E: Adaptive Ref Level 0.00 c	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 MWWWWW A NN NN N 3.382 8 GHz -18.87 dBm	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search	Peak Search Pk Searcl Config Properties Marker Function Marker→
Spectrum Input: RF Input: RF Coupling: DC Align: Auto Free 7 PASS Image: Spectrum 0 Image: Spectrum Image: Spectrum 0 Image: Spe	rections: On g Ref. Int (S) E: Adaptive Ref Level 0.00 c	Gate: Off IF Gain: Low Sig Track: Off	Avg Hold>100/100 Trig: Free Run Mkr1 28	MS) 12 3 4 5 6 MWWWWW A NN NN N 3.382 8 GHz -18.87 dBm	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta	Peak Search Pk Searcl Config Properties Marker Function Marker→
Weept SA T Imput: RF Coupling: DC Coupling: DC Align: Auto Free NFE Spectrum Cale/Div 10 dB Sog Trace 1 Pass 10.0 1 20.0	rections: On g Ref. Int (S) E: Adaptive Ref Level 0.00 c	Gate: Off IF Gain: Low Sig Track: Off IBm	Avg Hold>100/100 Trig: Free Run	MS) 12 3 4 5 6 MWWWWWA A N N N N N 3.382 8 GHz -18.87 dBm	Marker Select Marker Marker 1 Marker Frequency 28.382750000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF	Peak Search Pk Searcl Config Properties Marker Function Marker→

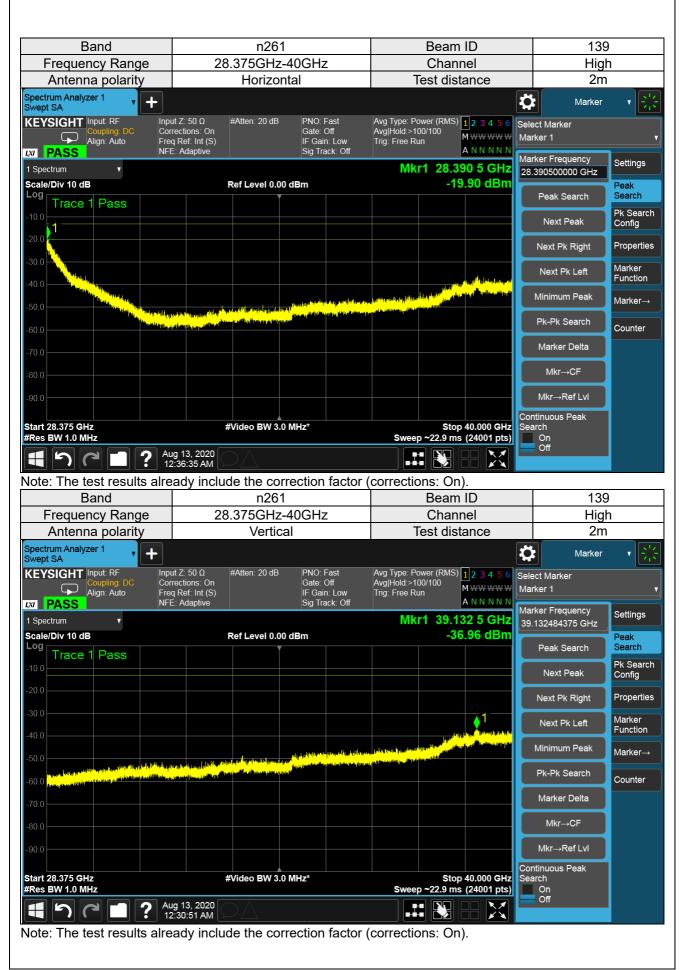


Band	n261		Beam ID		139	
Frequency Range	28.375GHz-			annel	Low	
Antenna polarity	Horizon			listance	2m	
Spectrum Analyzer 1	TIONZOI		1031 0		Marker	
Swept SA	put Z: 50 Ω #Atten: 20 dB	PNO: Fast	Avg Type: Power (RM			
Coupling: DC Co	orrections: On	Gate: Off	Avg Hold:>100/100		elect Marker ⁄Iarker 1	_
	eq Ref: Int (S) -E: Adaptive	IF Gain: Low Sig Track: Off	Trig: Free Run	ANNNN	vlarker 1	
		SIY HACK. OII	Biller 4 00		Marker Frequency	Settings
1 Spectrum					28.424406250 GHz	
Scale/Div 10 dB	Ref Level 0.00	dBm		-32.78 dBm	Peak Search	Peak Search
Trace 1 Pass					Next Peak	Pk Search Config
20.0					Next Pk Right	Properties
				, and a many different data the second	Next Pk Left	Marker Function
					Minimum Peak	Marker→
-50.0					Pk-Pk Search	Counter
-70.0					Marker Delta	
-80.0					Mkr→CF	
-90.0					Mkr→Ref Lvl	
Start 28.375 GHz	#Video BW 3.0	MHz*		top 40.000 GHz	Continuous Peak Search	
#Res BW 1.0 MHz モーク ア ^A	NUG 13, 2020				On Off	
lote: The test results alr		rection factor				
Band	n261		Bea	am ID	139	
Frequency Range	28.375GHz-	40GHz	Cha	annel	Low	1
Antenna polarity	Vertica			listance	2m	
Spectrum Analyzer 1			loord	ſ	Marker	→ 🛞
	put Z: 50 Ω #Atten: 20 dB	PNO: Fast	Avg Type: Power (RM	/S) 1 2 3 4 5 6		
Coupling: DC Coupl	prrections: On	Gate: Off	Avg Hold:>100/100			
	eq Ref: Int (S)	IF Gain: Low	Trig: Free Run	MWWWW	elect Marker ⁄larker 1	,
		IF Gain: Low Sig Track: Off	Trig: Free Run	M WW WW W A N N N N N	/larker 1	Settings
1 Spectrum	eq Ref: Int (S) E: Adaptive	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz		Settings
1 Spectrum V Scale/Div 10 dB	eq Ref: Int (S)	Sig Track: Off	Trig: Free Run Mkr1 39		Marker 1 Marker Frequency 39.104875000 GHz	Settings Peak Search
Spectrum v Scale/Div 10 dB	eq Ref: Int (S) E: Adaptive	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency	Peak Search Pk Search
1 Spectrum Scale/Div 10 dB Trace 1 Pass 10.0	eq Ref: Int (S) E: Adaptive	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency 39.104875000 GHz Peak Search	Peak Search
1 Spectrum Scale/Div 10 dB Og Trace 1 Pass 20.0 30.0	eq Ref: Int (S) FE: Adaptive Ref Level 0.00	Sig Track: Off	Trīg: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency 39.104875000 GHz Peak Search Next Peak	Peak Search Pk Search Config Properties Marker
I Spectrum Image: Constraint of the system Scale/Div 10 dB Image: Constraint of the system Incomparison Image: Constraint of the system 10.0 Image: Constraint of the system 20.0 Image: Constraint of the system -30.0 Image: Constraint of the system -40.0 Image: Constraint of the system	eq Ref: Int (S) E: Adaptive	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency 39.104875000 GHz Peak Search Next Peak Next Pk Right	Peak Search Pk Search Config Properties
1 Spectrum Scale/Div 10 dB Scale/Div 10 dB Trace 1 Pass 10.0 20.0 30.0 40.0 50.0 Trace 1 Pass 10.0	eq Ref: Int (S) FE: Adaptive Ref Level 0.00	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency 39.104875000 GHz Peak Search Next Peak Next Pk Right Next Pk Left	Peak Search Pk Search Config Properties Marker Function
I Spectrum Image: Constraint of the system Scale/Div 10 dB Image: Constraint of the system Incomparison Image: Constraint of the system 10.0 Image: Constraint of the system 20.0 Image: Constraint of the system -30.0 Image: Constraint of the system -40.0 Image: Constraint of the system	eq Ref: Int (S) FE: Adaptive Ref Level 0.00	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency 39.104875000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak	Peak Search Pk Search Config Properties Marker Function Marker→
1 Spectrum Image: Constraint of the state o	eq Ref: Int (S) FE: Adaptive Ref Level 0.00	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency 39.104875000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search	Peak Search Pk Search Config Properties Marker Function Marker→
I Spectrum I Scale/Div 10 dB Image: Scale state sta	eq Ref: Int (S) FE: Adaptive Ref Level 0.00	Sig Track: Off	Trig: Free Run Mkr1 39	M WWWWW A N N N N N .104 9 GHz	Marker 1 Marker Frequency 39.104875000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta	Peak Search Pk Search Config Properties Marker Function Marker→
I Spectrum I Scale/Div 10 dB Log Trace 1 Pass -10.0 -20.0 -30.0 -40.0 -50.0 Variation of the state o	eq Ref: Int (S) FE: Adaptive Ref Level 0.00	Sig Track: Off	Trig: Free Run	M WW WW W A N N N N N 33.81 dBm	Marker 1 Marker Frequency 39,104875000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF Mkr→Ref Lvl Continuous Peak Search	Peak Search Pk Search Config Properties Marker Function Marker→
1 Spectrum 1 Scale/Div 10 dB Scale/Div 10 dB Cog Trace 1 Pass 10.0 20.0 30.0 40.0 50.0 30.0 50.0 30.0 50.0 30.0 50.0 30.0 50.0 30.0 50.0 30.0 50.0 30.0 50.0 30.0 50.0 30.0 50.0 5	eq Ref: Int (S) F2: Adaptive Ref Level 0.00	Sig Track: Off	Trig: Free Run	M WW WW W A N N N N N 3.104 9 GHz -33.81 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Marker 1 Marker Frequency 39,104875000 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta Mkr→CF Mkr→Ref Lvl Continuous Peak	Peak Search Pk Search Config Properties Marker Function Marker→









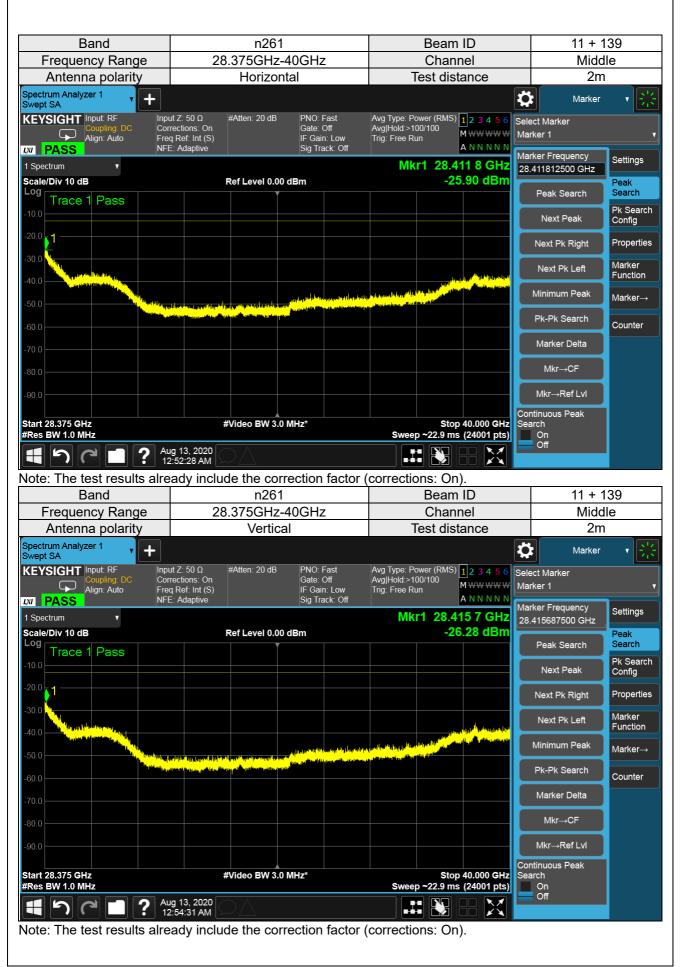


Band	n261		Bean	n ID	11 +	139
Frequency Range	28.375GHz-40		Char		Lov	
Antenna polarity	Horizonta	al	Test dis	stance	2m	1
vectrum Analyzer 1					Marker	
Coupling: DC Co	out Z: 50 Ω #Atten: 20 dB prrections: On	PNO: Fast Gate: Off	Avg Type: Power (RMS Avg Hold:>100/100		Select Marker	
Align: Auto Fre	eq Ref: Int (S) E: Adaptive	IF Gain: Low Sig Track: Off	Trig: Free Run	ANNNNN	Marker 1	•
Spectrum v			Mkr1 28.4	485 9 GHz	Marker Frequency 28.485921875 GHz	Settings
ale/Div 10 dB	Ref Level 0.00 dl	Bm	-3	2.94 dBm	Peak Search	Peak Search
					Next Peak	Pk Searcl Config
0.0					Next Pk Right	Properties
			الليس و		Next Pk Left	Marker Function
				an a	Minimum Peak	Marker→
D.0					Pk-Pk Search	Counter
0.0					Marker Delta	oounter
0.0					Mkr→CF	
0.0					Mkr→Ref Lvl	
art 28.375 GHz	#Video BW 3.0 M	Hz*	Sto		Continuous Peak Search	
Res BW 1.0 MHz			Sweep ~22.9 m		On Off	
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ote: The test results alre	eady include the corre	ection factor (corrections: Or	/		120
Band	eady include the corre n261		corrections: Or Bean	n ID	11 +	
Band Frequency Range	eady include the corre n261 28.375GHz-40		corrections: Or Bean Char	n ID Inel	Lov	N
Band Frequency Range Antenna polarity	eady include the corre n261		corrections: Or Bean	n ID nnel stance	Lov 2m	<i>N</i> า
Band Frequency Range Antenna polarity ectrum Analyzer 1 rept SA EYSIGHT Input: RF Coupling: DC Coupling: Auto Fre	eady include the corre n261 28.375GHz-4(Vertical out Z: 50 Ω #Atten: 20 dB #Atten: 20 dB	OGHz PNO: Fast Gate: Off IF Gain: Low	corrections: Or Bean Char	n ID nnel stance	Lov 2m Marker Select Marker Marker 1	<i>N</i> า
Band Frequency Range Antenna polarity ectrum Analyzer 1 vept SA EYSIGHT Input: RF Coupling: DC Aign: Auto PASS Spectrum	eady include the corre n261 28.375GHz-40 Vertical out Z: 50 Ω #Atten: 20 dB #Atten: 20 dB E: Adaptive	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold:>100/100 Trig: Free Run Mkr1 28.4	n ID anel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Marker Select Marker	N 1 V Settings
Band Frequency Range Antenna polarity ectrum Analyzer 1 rept SA EYSIGHT Input: RF Coupling: DC Align: Auto Fre PASS Spectrum	eady include the corre n261 28.375GHz-4(Vertical out Z: 50 Ω #Atten: 20 dB #Atten: 20 dB	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold:>100/100 Trig: Free Run Mkr1 28.4	n ID nnel stance	Lov 2m Marker Select Marker Marker 1 Marker Frequency	N 1 7
Band Frequency Range Antenna polarity ectrum Analyzer 1 vept SA EYSIGHT Input: RF Coopling: DC Align: Auto Fre PASS Spectrum Spectrum Pass Spectrum Pass	eady include the corre n261 28.375GHz-40 Vertical out Z: 50 Ω #Atten: 20 dB #Atten: 20 dB E: Adaptive	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold:>100/100 Trig: Free Run Mkr1 28.4	n ID anel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Marker Select Marker Marker 1 Marker Frequency 28.421015625 GHz	N I Settings Peak Search
Band Frequency Range Antenna polarity ectrum Analyzer 1 rept SA EYSIGHT Input: RF Coupling: DC Align: Auto PASS Spectrum ale/Div 10 dB Pass	eady include the corre n261 28.375GHz-40 Vertical out Z: 50 Ω #Atten: 20 dB #Atten: 20 dB E: Adaptive	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold:>100/100 Trig: Free Run Mkr1 28.4	n ID anel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Select Marker Marker 1 Marker Frequency 28.421015625 GHz Peak Search	N Settings Peak Search Pk Search Config
Band Frequency Range Antenna polarity ectrum Analyzer 1 vept SA EYSIGHT Input: RF Coopling: DC Align: Auto Fre PASS Spectrum Spectrum Trace 1 Pass 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	eady include the corre n261 28.375GHz-40 Vertical out Z: 50 Ω rrections: On eq Ref: Int (S) E: Adaptive Ref Level 0.00 df	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold>100/100 Trig: Free Run Mkr1 28.4 -3	n ID anel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Select Marker Marker 1 Marker Frequency 28.421015625 GHz Peak Search Next Peak	N Settings Peak Search Pk Search Config
Band Frequency Range Antenna polarity ectrum Analyzer 1 rept SA EYSIGHT Input RF Coupling: DC Align: Auto PASS Spectrum Coupling: DC Align: Auto Pass Spectrum Coupling: DC Align: Auto Fre Pass Spectrum Coupling: DC Align: Auto Coupling: DC Coupling: DC Coupli	eady include the corre n261 28.375GHz-40 Vertical out Z: 50 Ω rrections: On eq Ref: Int (S) E: Adaptive Ref Level 0.00 df	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold>100/100 Trig: Free Run Mkr1 28.4 -3	n ID anel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Select Marker Marker 1 Marker Frequency 28.421015625 GHz Peak Search Next Peak Next Pk Right	N Settings Peak Search Pk Searcl Config Properties Marker
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Band Frequency Range Antenna polarity ectrum Analyzer 1 vept SA EYSIGHT Input: RF Coupling: DC Align: Auto Fre Spectrum sale/Div 10 dB	eady include the corrend n261 28.375GHz-40 Vertical wurz: 50 Ω aref: Int (S) E: Adaptive Ref Level 0.00 df	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold>100/100 Trig: Free Run Mkr1 28.4 -3	n ID anel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Select Marker Marker 1 Marker Frequency 28.421015625 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak	N Settings Peak Search Pk Search Pk Search Properties Marker Function Marker→
Band Frequency Range Antenna polarity ectrum Analyzer 1 vept SA EYSIGHT Input RF Coupling: DC Align: Auto Fre Spectrum Trace 1 Pass 0.0 0.0 1 Coupling: DC Coupling: DC	eady include the corrend n261 28.375GHz-40 Vertical wurz: 50 Ω aref: Int (S) E: Adaptive Ref Level 0.00 df	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold>100/100 Trig: Free Run Mkr1 28.4 -3	n ID anel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Select Marker Marker 1 Marker Frequency 28.421015625 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search	N Settings Peak Search Pk Search Pk Search Properties Marker Function Marker→
Band Frequency Range Antenna polarity ectrum Analyzer 1 rept SA EYSIGHT Input: RF Coupling: DC Align: Auto PASS Spectrum Trace 1 Pass D D D D D D Coupling: Auto Fre NFI Spectrum D D Coupling: Auto D Coupling: Auto Spectrum D Coupling: Auto Spectrum D Coupling: Auto Spectrum D Coupling: Auto Spectrum	eady include the corrend n261 28.375GHz-40 Vertical wurz: 50 Ω aref: Int (S) E: Adaptive Ref Level 0.00 df	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg Hold>100/100 Trig: Free Run Mkr1 28.4 -3	n ID nnel stance 1 2 3 4 5 6 MWWWWW A NN NN N 421 0 GHz	Lov 2m Select Marker Marker 1 Marker Frequency 28.421015625 GHz Peak Search Next Peak Next Pk Right Next Pk Left Minimum Peak Pk-Pk Search Marker Delta	N Settings Peak Search Pk Search Pk Search Properties Marker Function Marker→
Band Frequency Range Antenna polarity ectrum Analyzer 1 rept SA EYSIGHT Input RF Coupling: DC Align: Auto PASS Spectrum ale/Div 10 dB P Trace 1 Pass 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	eady include the corrend n261 28.375GHz-40 Vertical wurz: 50 Ω aref: Int (S) E: Adaptive Ref Level 0.00 df	OGHz PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Bm	Corrections: Or Bean Char Test dis Avg Type: Power (RMS Avg]Hold>100/100 Trig: Free Run Mkr1 28.4 -3	n ID nnel stance 12 3 4 5 6 MWWWWW A N N N N N 421 0 GHz 3.45 dBm 123.45 dBm 123.	Lov 2m Control Control Contro	W Settings Peak Search Pk Search Pk Search Propertie: Marker Function Marker→



Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-33.45	-32.94	-30.18	-13	-17.18	Pass

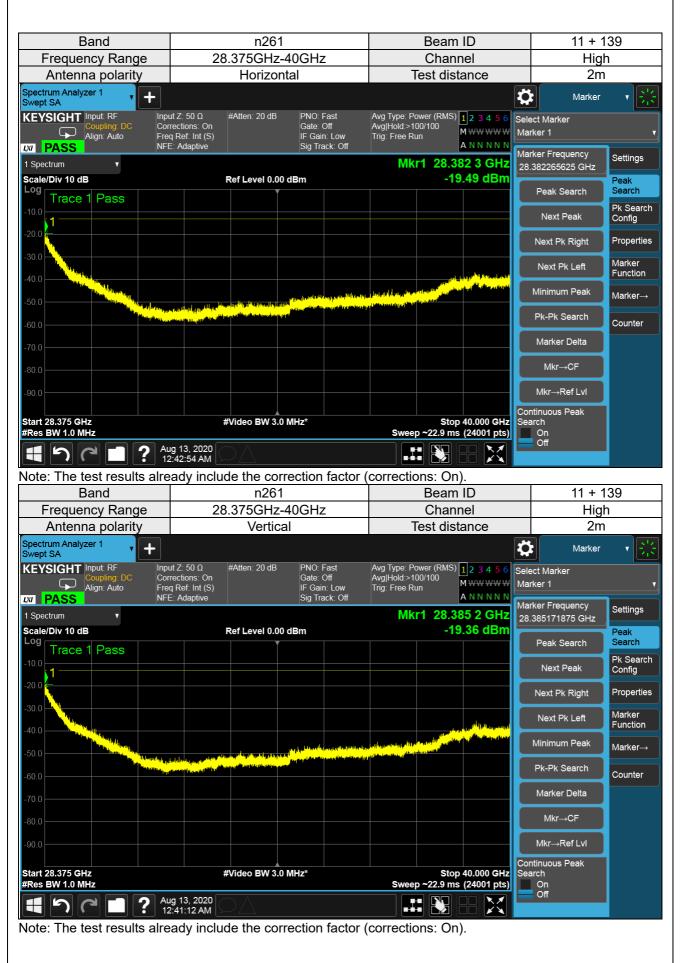






Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-26.28	-25.90	-23.08	-13	-10.08	Pass





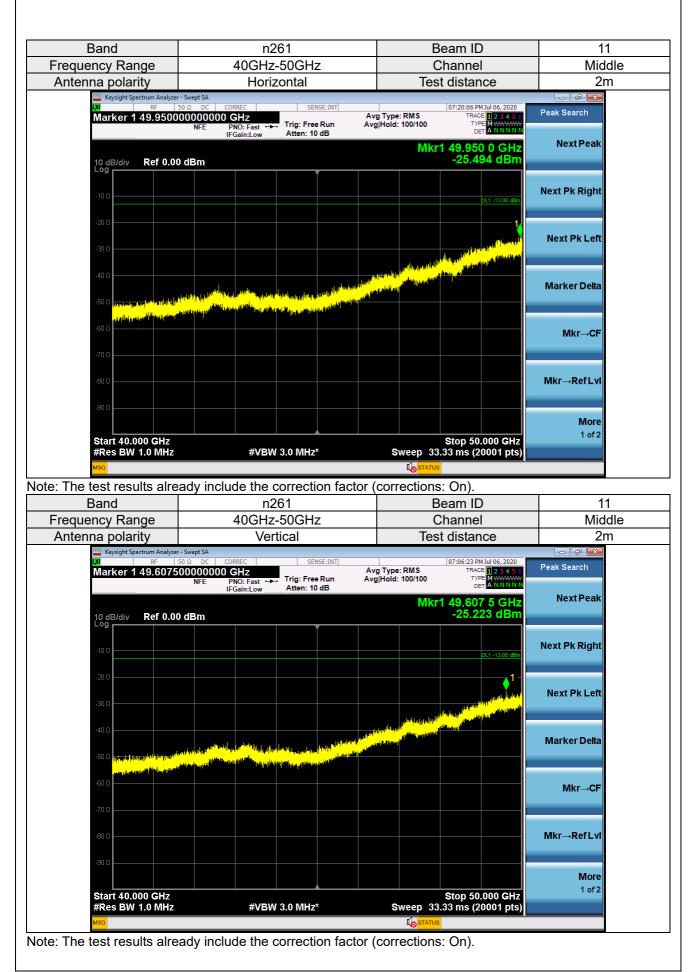


Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-19.36	-19.49	-16.41	-13	-3.41	Pass

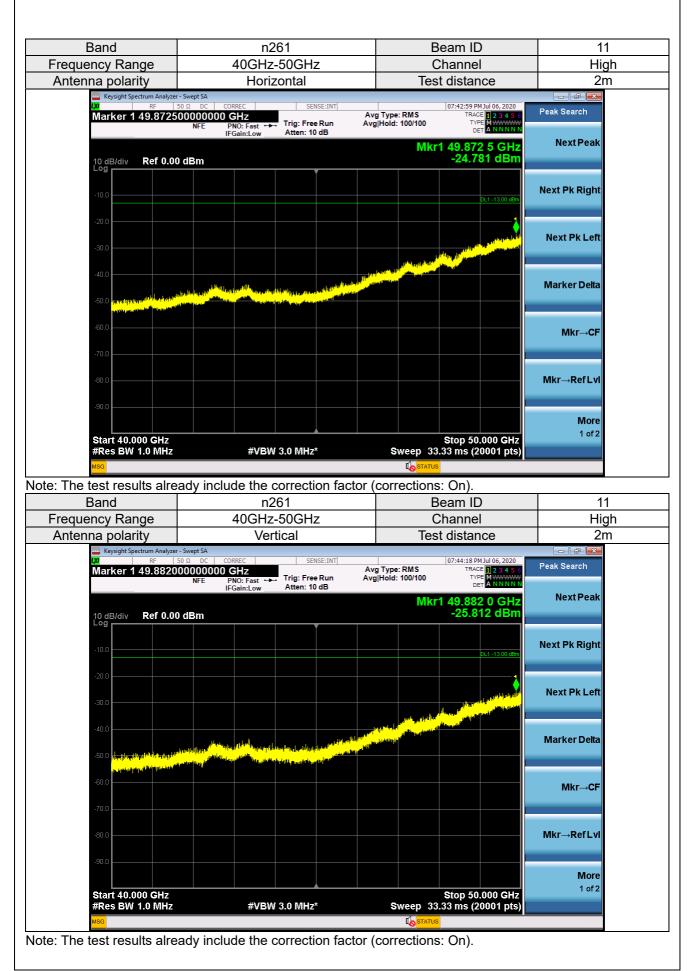




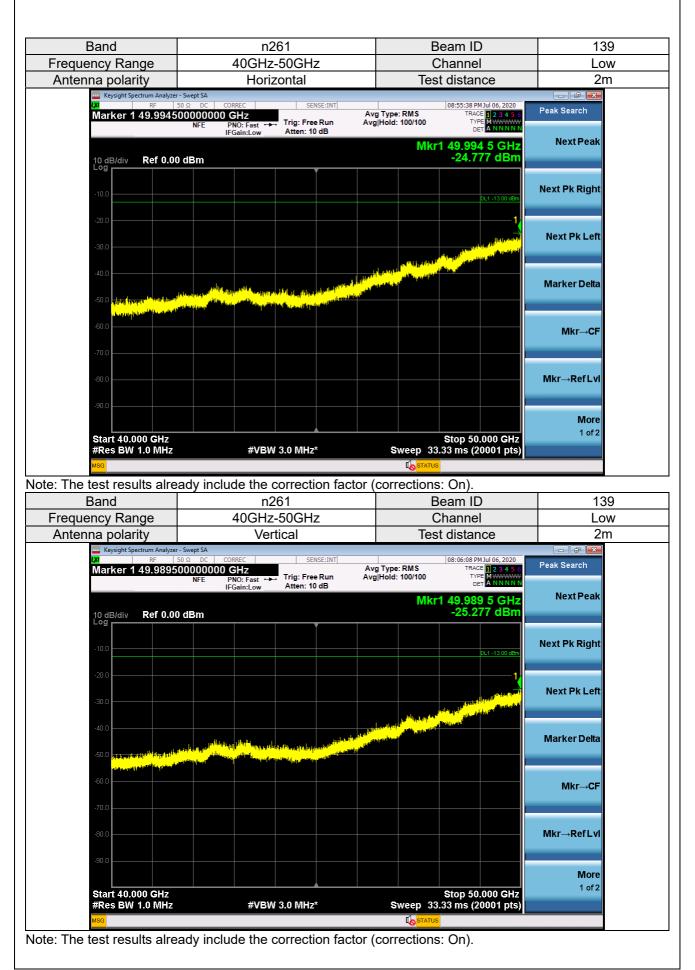




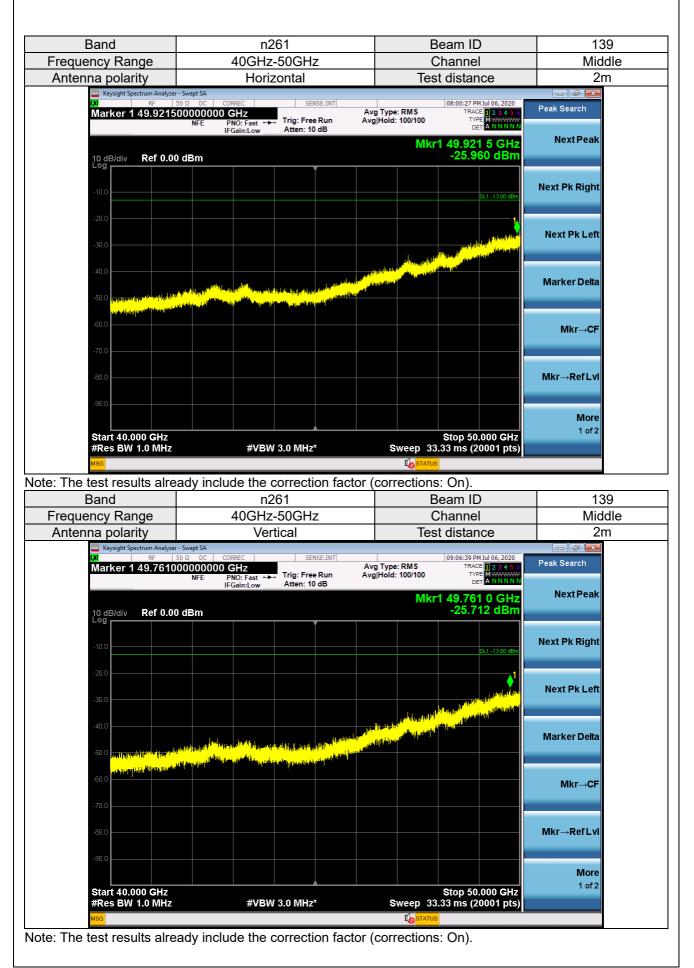




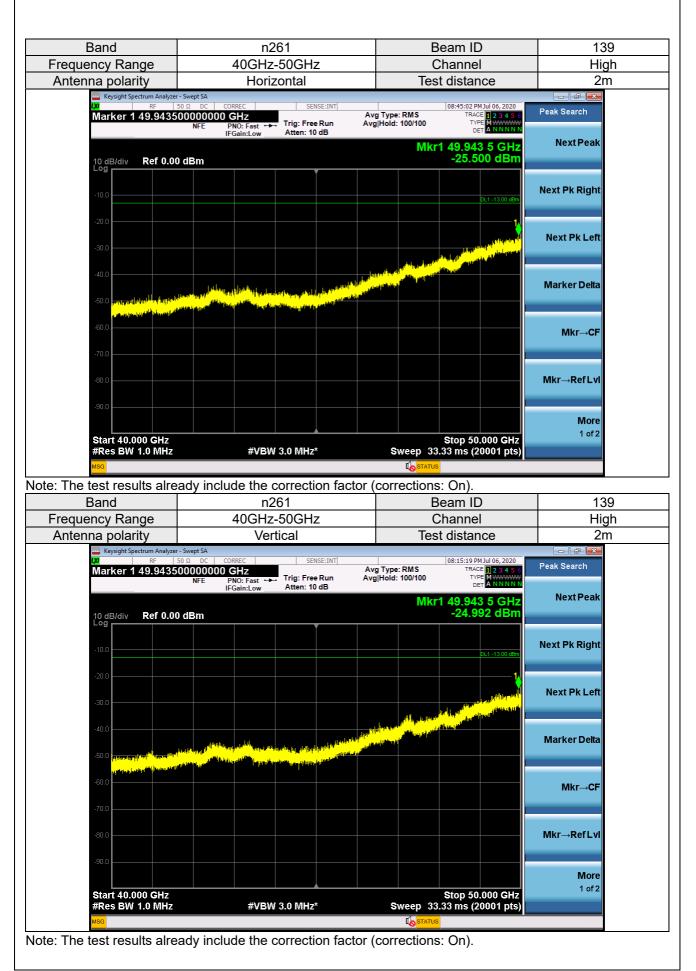




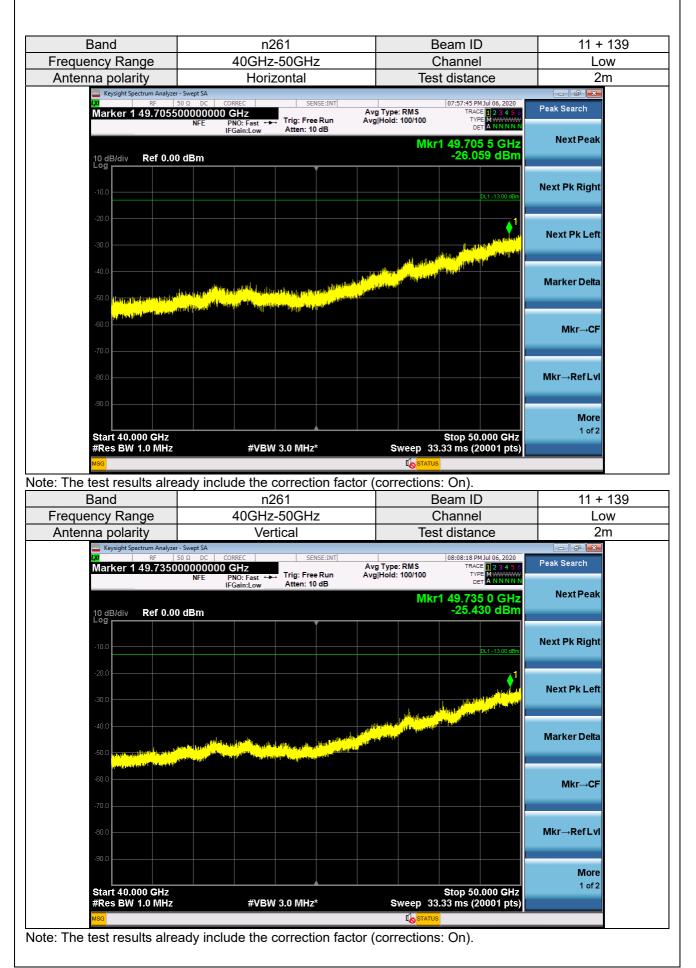








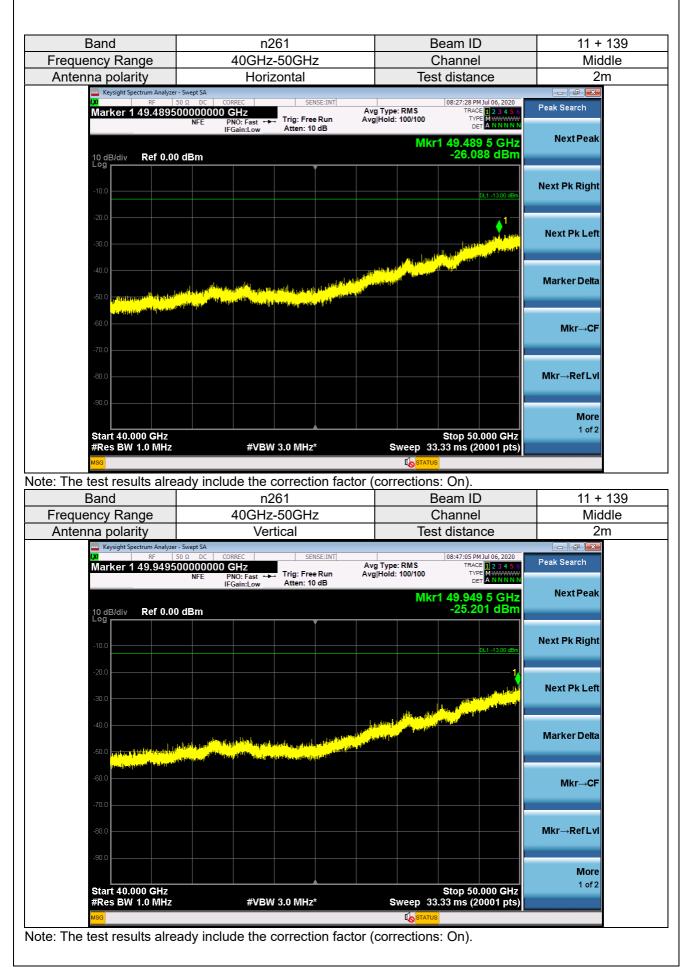






Beam	ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 1	39	-25.430	-26.059	-22.72	-13	-9.72	Pass

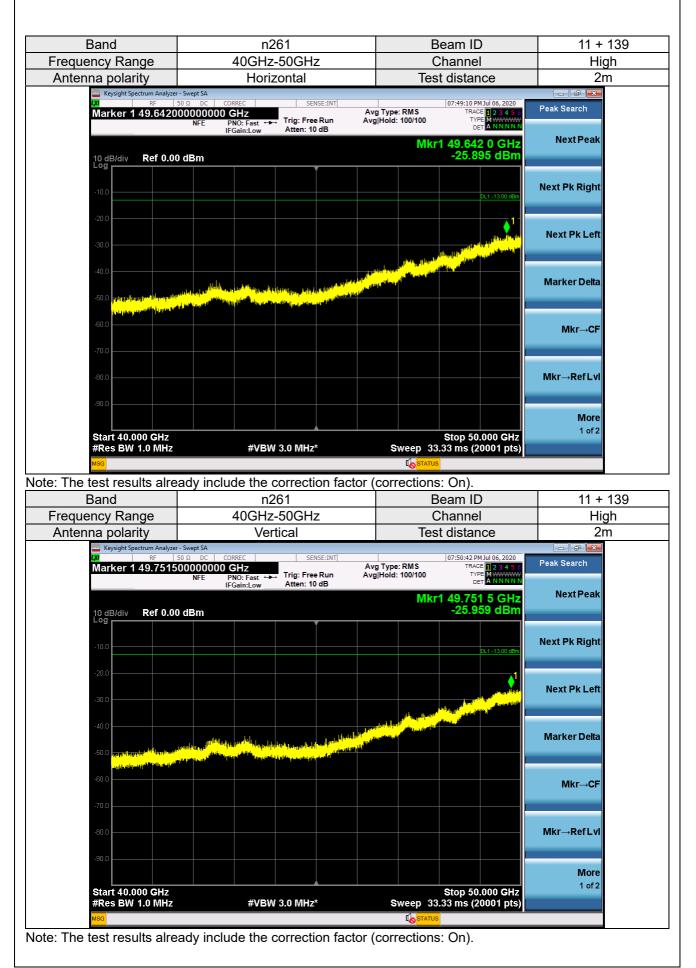






Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-25.201	-26.088	-22.61	-13	-9.61	Pass





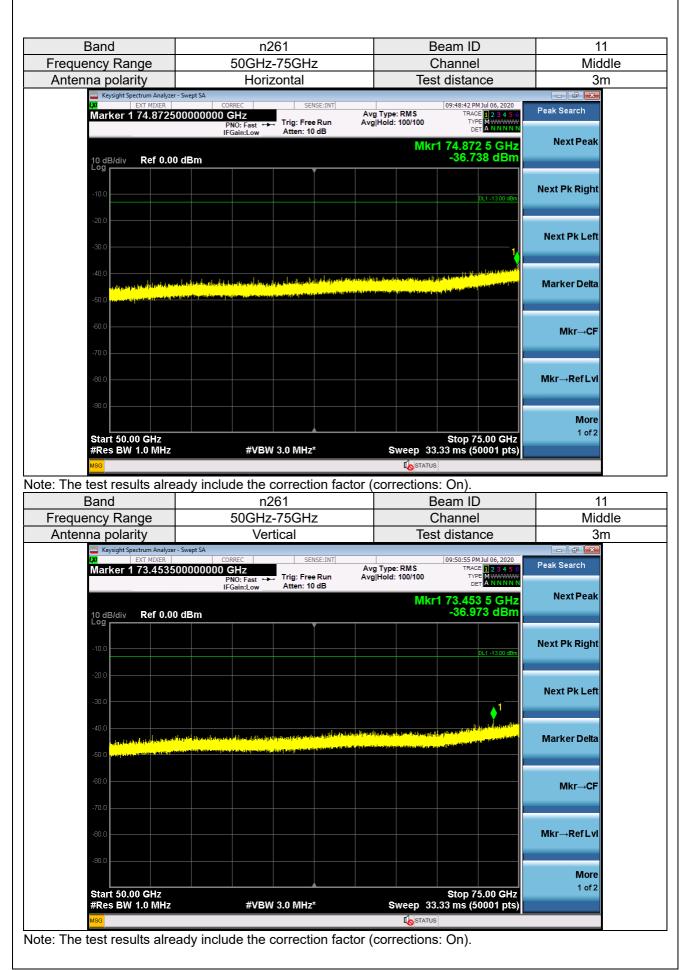


В	eam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
1'	1 + 139	-25.959	-25.895	-22.92	-13	-9.92	Pass



50GHz-75GHz (n261): Band n261 Beam ID 11 **Frequency Range** 50GHz-75GHz Channel Low Test distance Antenna polarity Horizontal 3m 09:18:17 PM Jul 06, 202 Peak Search Marker 1 74.984500000000 GHz Avg Type: RMS Avg|Hold: 100/100 TRACE 1 2 3 4 5 Trig: Free Run Atten: 10 dB TYPE PNO: Fast +++ IFGain:Low Mkr1 74.984 5 GHz -36.100 dBm Next Peak 10 dB/div Log Ref 0.00 dBm Next Pk Right Next Pk Left والم الم Marker Delta Mkr→CF Mkr→RefLvl More 1 of 2 Stop 75.00 GHz Sweep 33.33 ms (50001 pts) Start 50.00 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* **I** STATU Note: The test results already include the correction factor (corrections: On). Band n261 Beam ID 11 **Frequency Range** 50GHz-75GHz Channel Low Antenna polarity Vertical Test distance 3m ISE:INT Peak Search Avg Type: RMS Avg|Hold: 100/100 Marker 1 74.820500000000 GHz **1**234 Tria: Free Run TYPE DET PNO: Fast +++ IFGain:Low Atten: 10 dB **Next Peak** Mkr1 74.820 5 GHz -37.295 dBm Ref 0.00 dBm 10 dB/div **Next Pk Right** Next Pk Left **Marker Delta** Mkr→CF Mkr→RefLvl More 1 of 2 Start 50.00 GHz #Res BW 1.0 MHz Stop 75.00 GHz Sweep 33.33 ms (50001 pts) #VBW 3.0 MHz* **I**STATUS Note: The test results already include the correction factor (corrections: On).

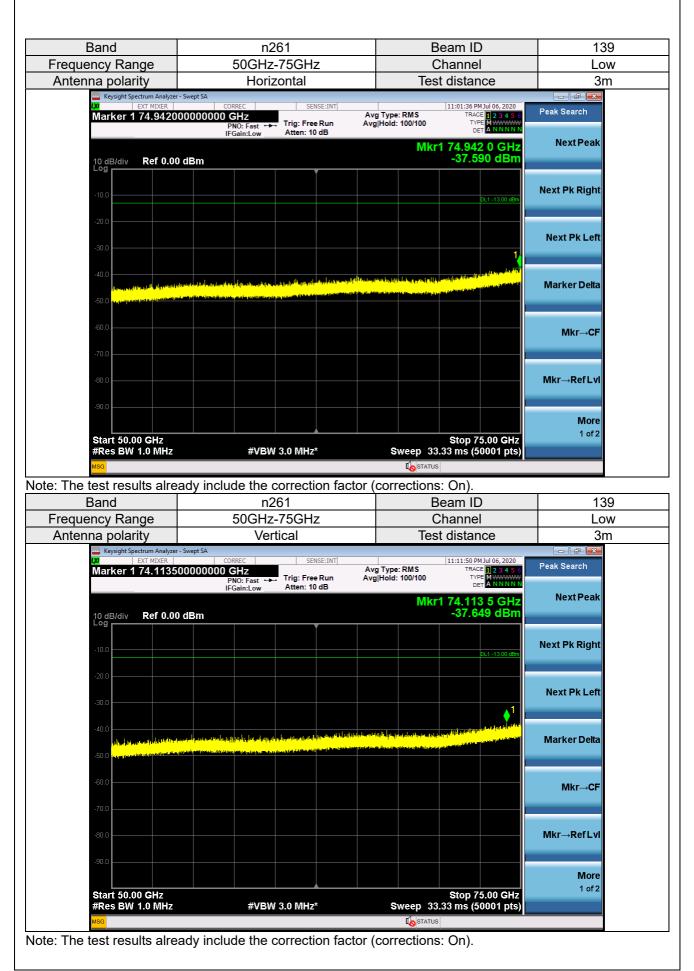




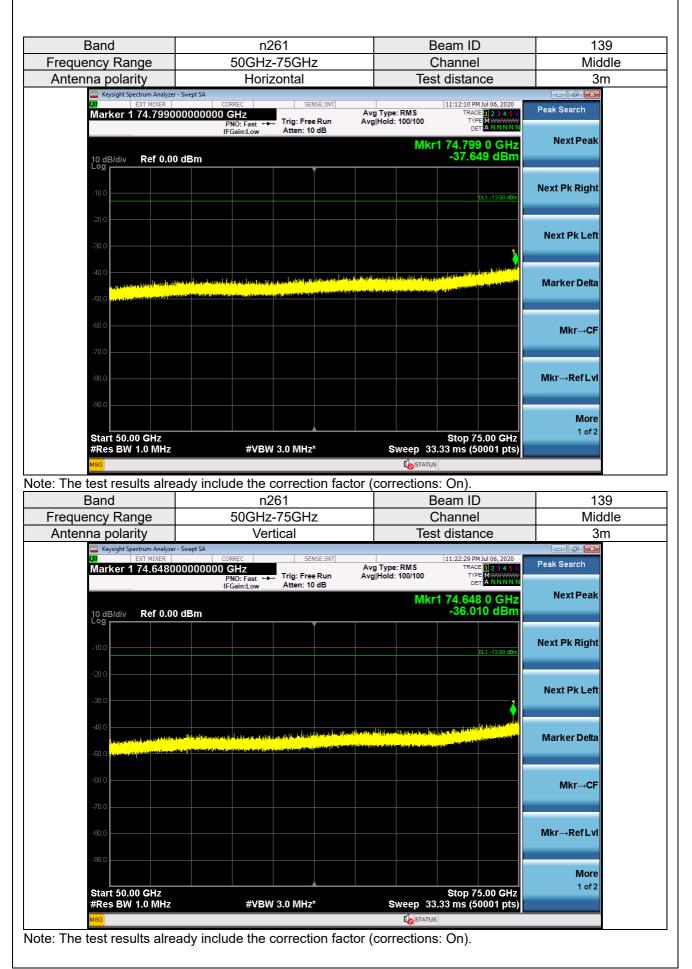




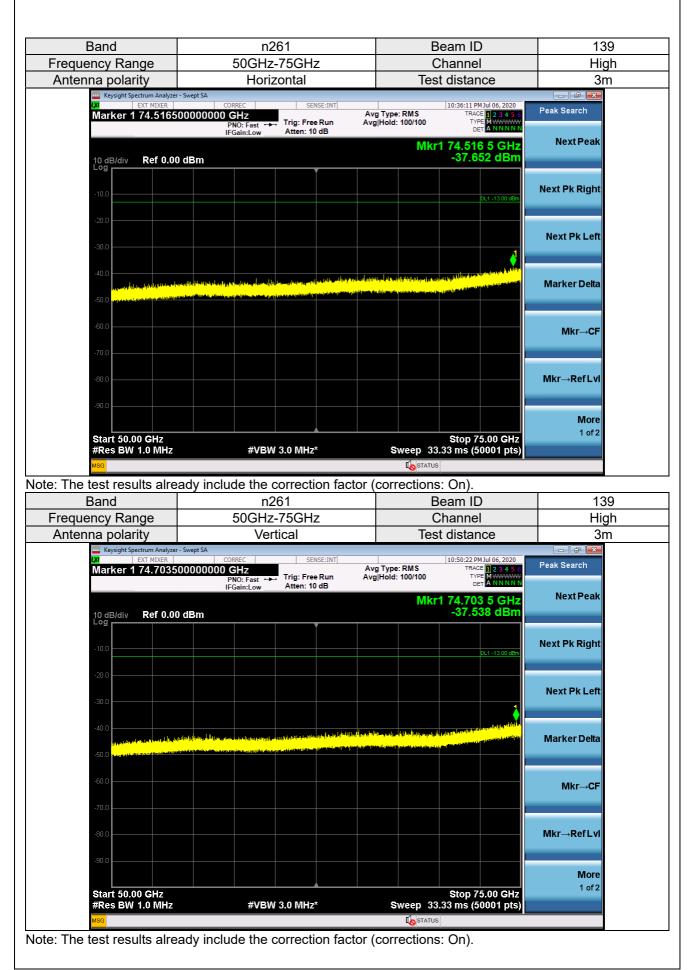












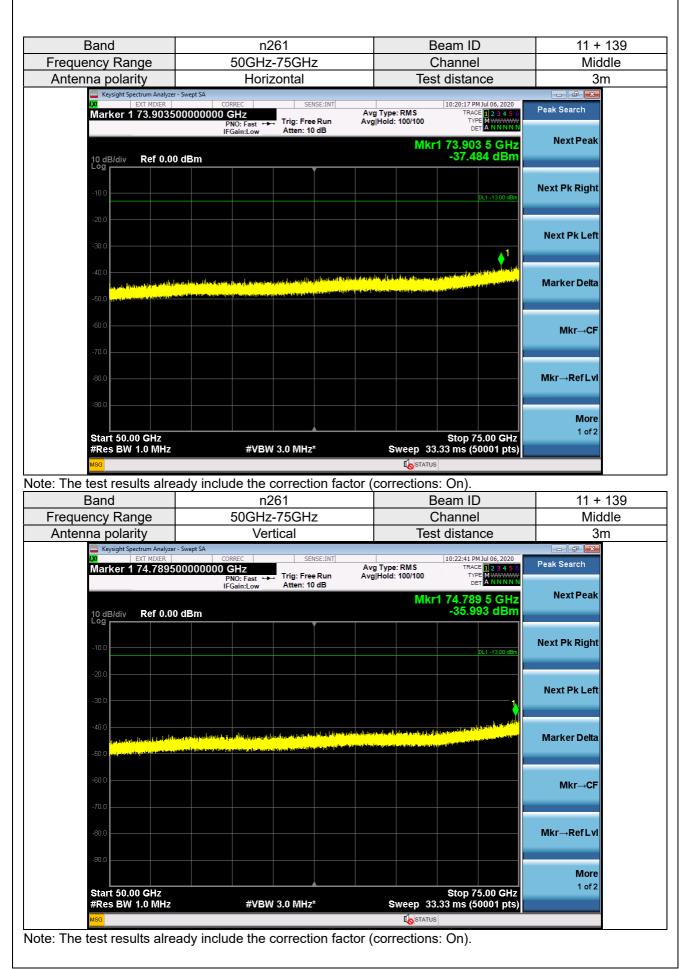






Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-37.803	-37.633	-34.70	-13	-21.70	Pass







Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-35.993	-37.484	-33.66	-13	-20.66	Pass





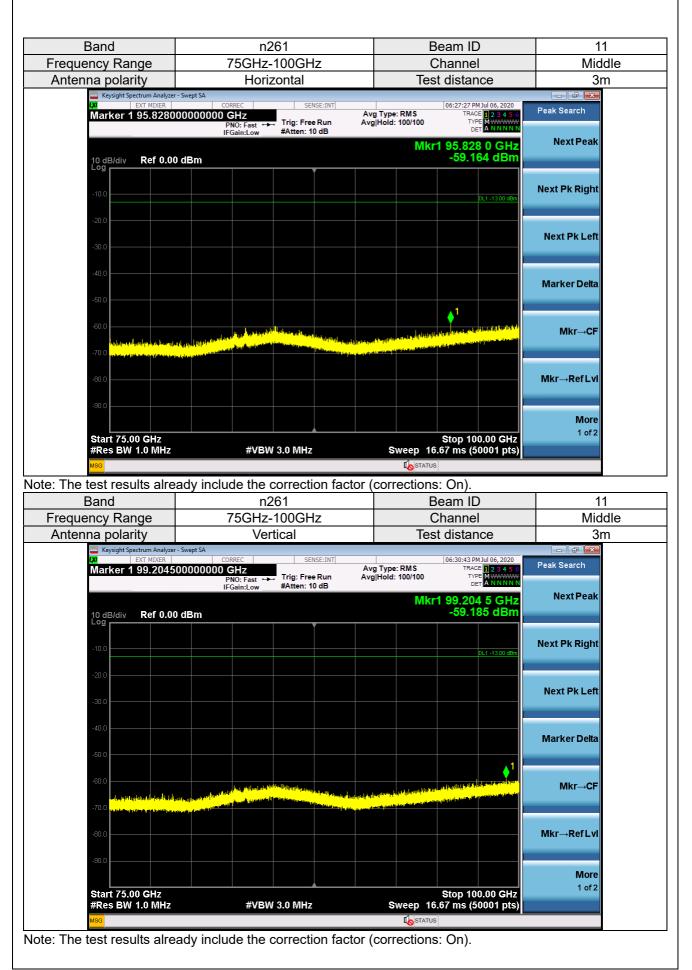


Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-37.470	-37.671	-34.56	-13	-21.56	Pass

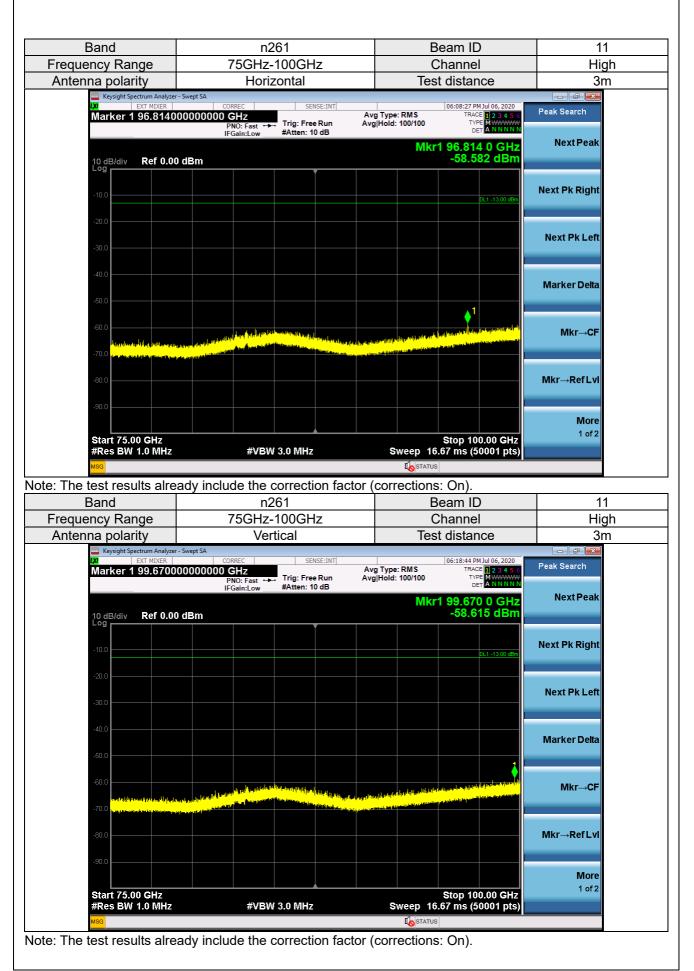


75GHz-100GHz (n261): Band n261 Beam ID 11 **Frequency Range** 75GHz-100GHz Channel Low Test distance Antenna polarity Horizontal 3m 06:00:57 PM Jul 06, 202 Peak Search Marker 1 99.565000000000 GHz Avg Type: RMS Avg|Hold: 100/100 TRACE 1 2 3 4 5 TYPE Trig: Free Run PNO: Fast +++ IFGain:Low #Atten: 10 dB Next Peak Mkr1 99.565 0 GHz -58.707 dBm 10 dB/div Log Ref 0.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF الم فعدة المواقعة فالمالية عام والم Mkr→RefLvi More 1 of 2 Stop 100.00 GHz Sweep 16.67 ms (50001 pts) Start 75.00 GHz #Res BW 1.0 MHz #VBW 3.0 MHz **I** STATUS Note: The test results already include the correction factor (corrections: On). Band n261 Beam ID 11 Channel **Frequency Range** 75GHz-100GHz Low Antenna polarity Vertical Test distance 3m nalvzer - Swept S SE:IN Peak Search Avg Type: RMS Avg|Hold: 100/100 Marker 1 98.996500000000 GHz 1234 Tria: Free Run түр PNO: Fast +++ IFGain:Low DET #Atten: 10 dB **Next Peak** Mkr1 98.996 5 GHz -58.319 dBm Ref 0.00 dBm 10 dB/div Next Pk Right Next Pk Left **Marker Delta** Mkr→CF Mkr→RefLvl More 1 of 2 Start 75.00 GHz #Res BW 1.0 MHz Stop 100.00 GHz Sweep 16.67 ms (50001 pts) #VBW 3.0 MHz **I**STATUS

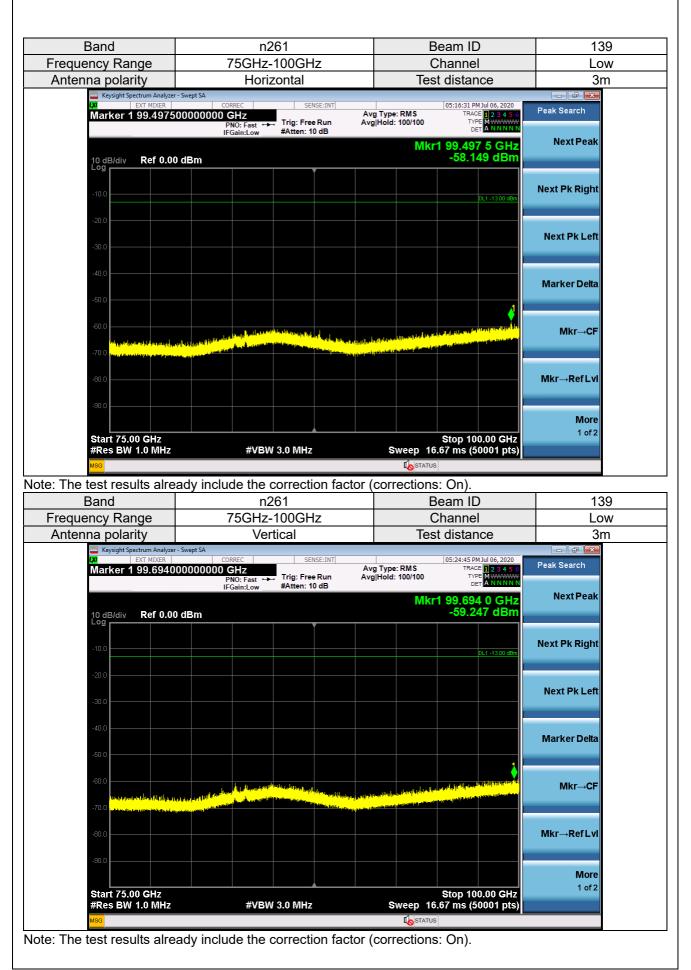




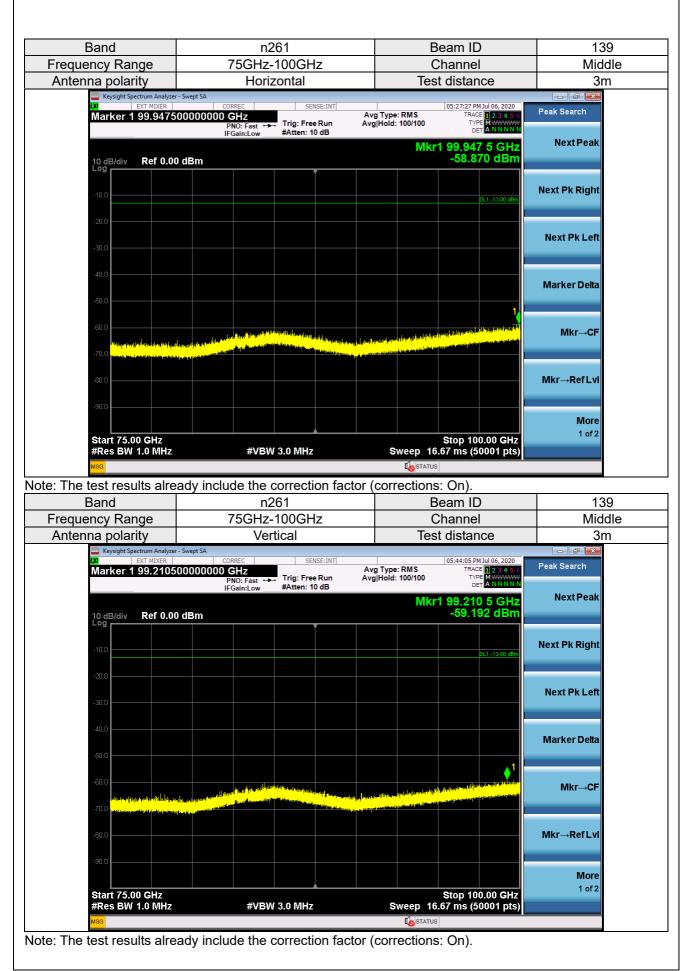




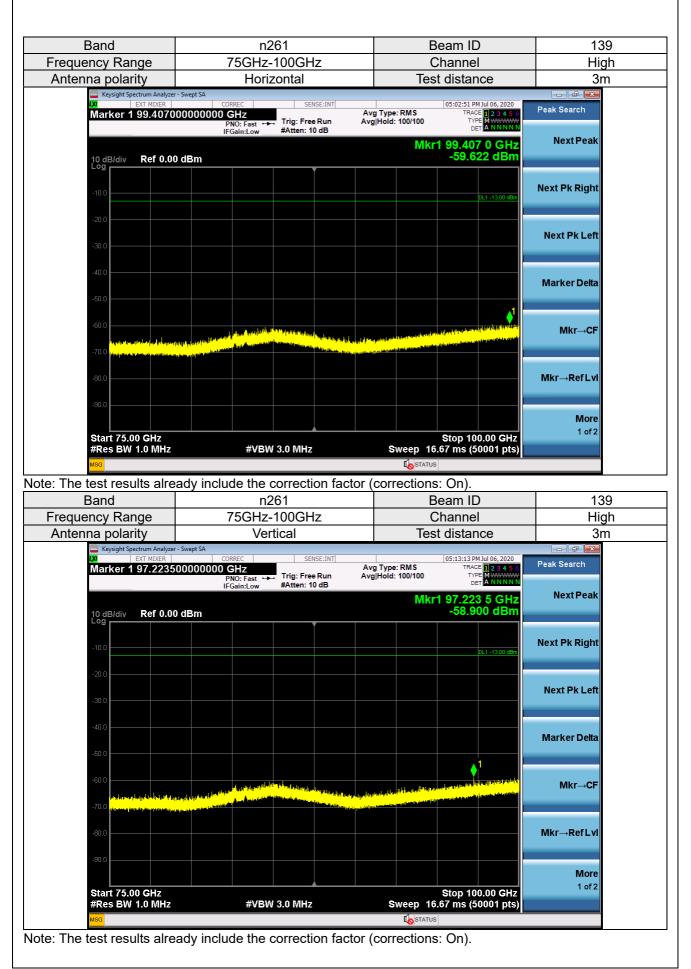




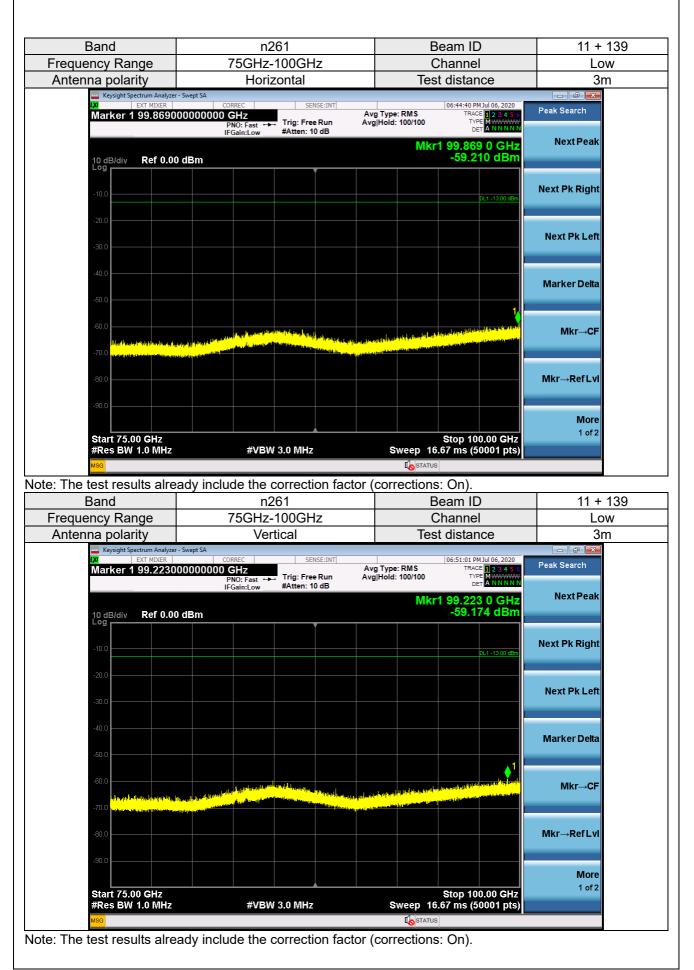








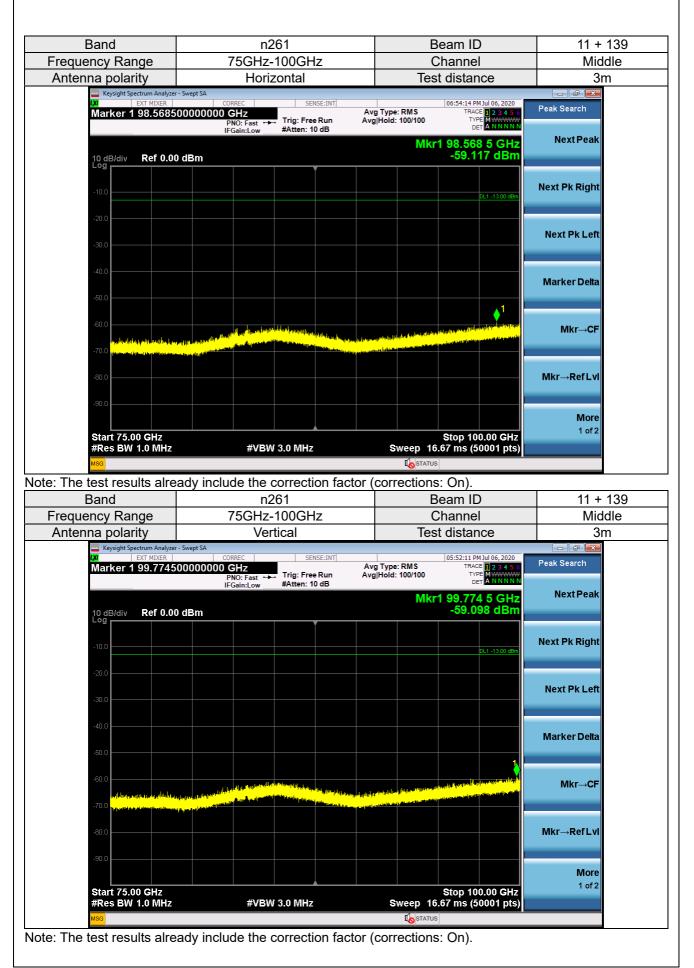






Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-59.174	-59.210	-56.18	-13	-43.18	Pass

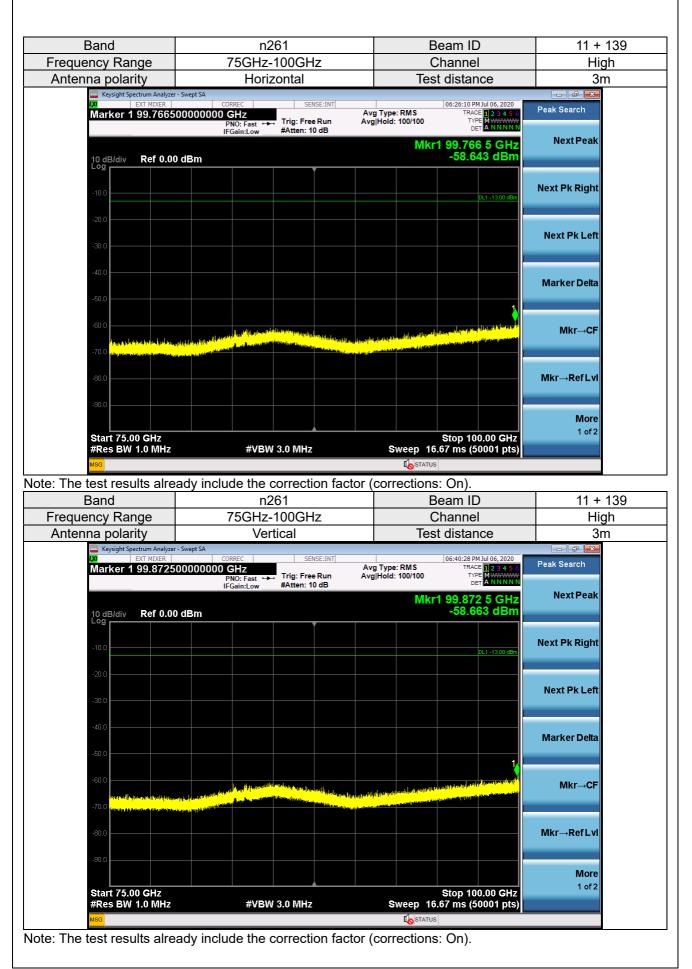






Beam	ו ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 +	139	-59.098	-59.117	-56.10	-13	-43.10	Pass







Beam ID	EIRP for V Beam (dBm)	EIRP for H Beam (dBm)	EIRP for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-58.663	-58.643	-55.64	-13	-42.64	Pass



4.5 Out-of-Band Spurious Emission Measurement

4.5.1 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.

4.5.2 Test Instruments

Refer to section 4.2.3 to get information of above instrument.

4.5.3 Test Procedures

- a. 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.
- b. 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.
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. 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.
- e. The requirements in 30.203 are expressed in terms of conductive power, and then conducted power will be calculated by EIRP-Array Gain.
- f. Antenna Gain Information at the Band Edge :

The following antenna gain information is provided to demonstrate the antenna performance of the 27.5~28.35 GHz band. These antenna gains were subtracted from the measured E.I.R.P levels at lower and upper band edge frequencies to determine an equivalent conductive power that was compared directly with the part 30.203 limits.

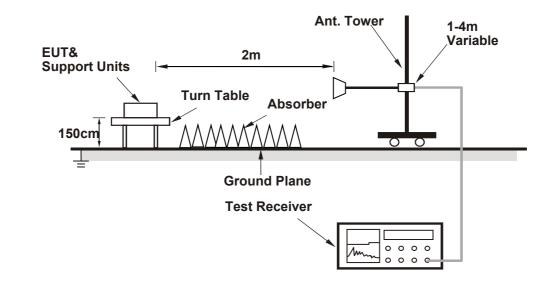
Band	n261			
Frequency (GHz)	Gain (dBi)			
27.5	22.30			
28.35	22.30			

Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.



4.5.4 Deviation from Test Standard No deviation.

4.5.5 Test Set Up



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

4.5.6 EUT Operating Conditions

Refer to section 4.2.7 to get information of EUT operating conditions.

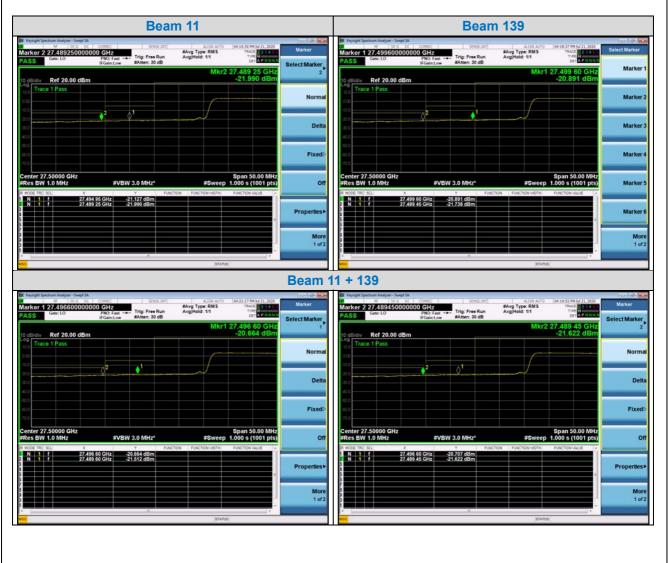


4.5.7 Test Results

Low Channel	2071821						
QPSK-1CC	Full RB						
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
11	27.49495	1.173	22.3	-21.127	-5	-16.127	Pass
11	27.48925	0.310	22.3	-21.990	-13	-8.990	Pass
120	27.49960	1.409	22.3	-20.891	-5	-15.891	Pass
139	27.48945	0.562	22.3	-21.738	-13	-8.738	Pass
11 + 120 () (or)	27.49660	1.636	22.3	-20.664	-5	-15.664	Pass
11+139(Ver)	27.48960	0.788	22.3	-21.512	-13	-8.512	Pass
11 + 120 (I low)	27.49660	1.593	22.3	-20.707	-5	-15.707	Pass
11+139(Hor)	27.48945	0.678	22.3	-21.622	-13	-8.622	Pass

Note:

1. The Conducted Power = EIRP-Array Gain





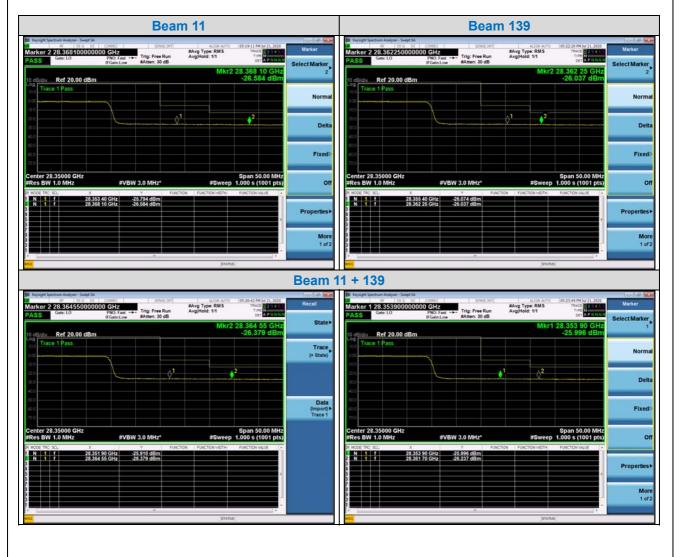
Beam ID	Conducted Power for V Beam (dBm)	Conducted Power for H Beam (dBm)	Conducted Power for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 1 120	-20.664	-20.707	-17.86	-5	-12.86	Pass
11 + 139	-21.512	-21.622	-18.56	-13	-5.56	Pass



	1										
High Channel	2084035										
QPSK-1CC	Full RB										
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result				
11	28.35340	-3.494	22.3	-25.794	-5	-20.794	Pass				
	28.36810	-4.284	22.3	-26.584	-13	-13.584	Pass				
139	28.35540	-3.774	22.3	-26.074	-5	-21.074	Pass				
129	28.36225	-3.737	22.3	-26.037	-13	-13.037	Pass				
11,120()(ar)	28.35190	-3.610	22.3	-25.910	-5	-20.910	Pass				
11+139(Ver)	28.36455	-4.079	22.3	-26.379	-13	-13.379	Pass				
11, 120/Hor)	28.35390	-3.696	22.3	-25.996	-5	-20.996	Pass				
11+139(Hor)	28.36170	-3.937	22.3	-26.237	-13	-13.237	Pass				

Note:

1. The Conducted Power = EIRP-Array Gain





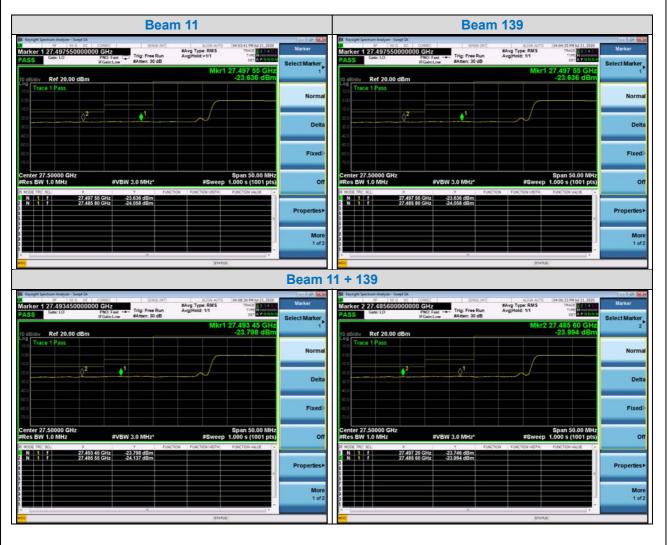
Beam ID	Conducted Power for V Beam (dBm)	Conducted Power for H Beam (dBm)	Conducted Power for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 + 139	-25.910	-25.996	-22.94	-5	-17.94	Pass
11 + 139	-26.379	-26.237	-23.30	-13	-10.30	Pass



	1						
Low Channel	2072613						
QPSK-2CC	Full RB						
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
11	27.49755	-1.336	22.3	-23.636	-5	-18.636	Pass
11	27.48580	-1.758	22.3	-24.058	-13	-11.058	Pass
120	27.49755	-1.336	22.3	-23.636	-5	-18.636	Pass
139	27.48580	-1.758	22.3	-24.058	-13	-11.058	Pass
11 + 120() (ar)	27.49345	-1.498	22.3	-23.798	-5	-18.798	Pass
11+139(Ver)	27.48555	-1.837	22.3	-24.137	-13	-11.137	Pass
11 + 120/Hor)	27.49720	-1.446	22.3	-23.746	-5	-18.746	Pass
11+139(Hor)	27.48560	-1.694	22.3	-23.994	-13	-10.994	Pass

Note:

1. The Conducted Power = EIRP-Array Gain





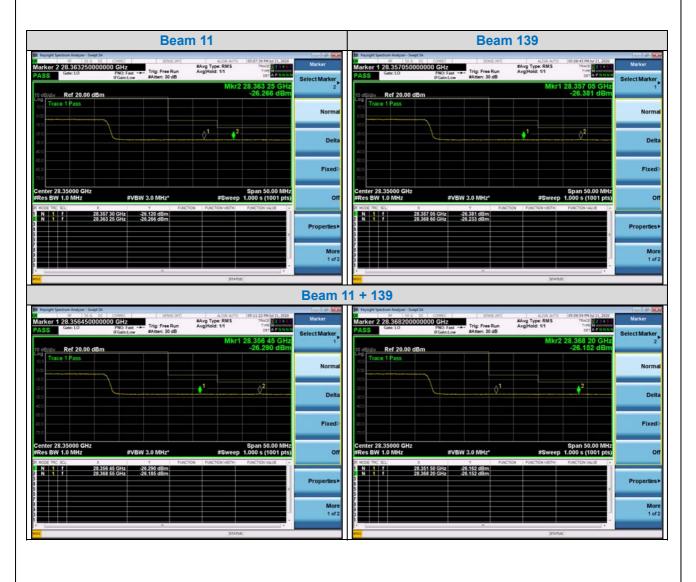
Beam ID	Conducted Power for V Beam (dBm)	er Power Power for eam for H Beam V+H Beam n) (dBm) (dBm)		Limit(dBm)	Margin(dB)	Result
11 1 120	-23.798	-23.746	-20.76	-5	-15.76	Pass
11 + 139	-24.137	-23.994	-21.05	-13	-8.05	Pass



High Channel	2083291	2083291								
QPSK-2CC	Full RB	Full RB								
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result			
11	28.35730	-3.820	22.3	-26.120	-5	-21.120	Pass			
11	28.36325	-3.966	22.3	-26.266	-13	-13.266	Pass			
139	28.35705	-4.081	22.3	-26.381	-5	-21.381	Pass			
139	28.36860	-3.933	22.3	-26.233	-13	-13.233	Pass			
11 + 120() (ar)	28.35645	-3.990	22.3	-26.290	-5	-21.290	Pass			
11+139(Ver)	28.36855	-3.885	22.3	-26.185	-13	-13.185	Pass			
11+139(Hor)	28.35150	-3.862	22.3	-26.162	-5	-21.162	Pass			
	28.36820	-3.852	22.3	-26.152	-13	-13.152	Pass			

Note:

1. The Conducted Power = EIRP-Array Gain





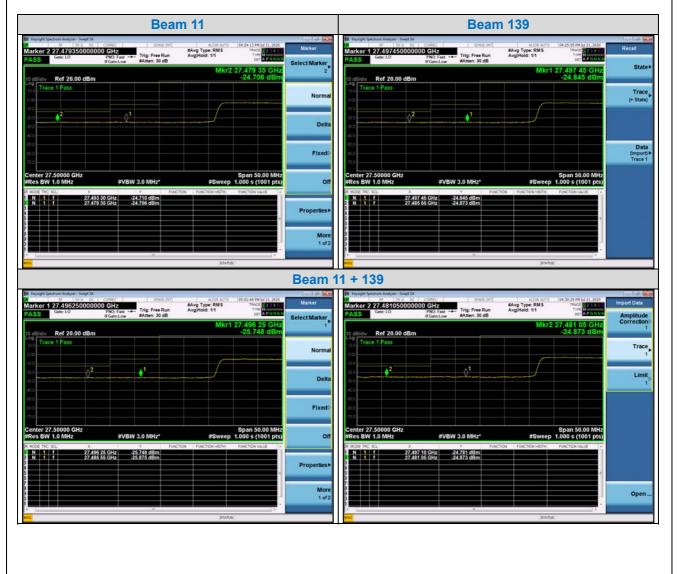
Beam ID	Conducted Power for V Beam (dBm)	Conducted Power for H Beam (dBm)	Conducted Power for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 . 120	-26.290	-26.162	-23.22	-5	-18.22	Pass
11 + 139	-26.185	-26.152	-23.16	-13	-10.16	Pass



Low Channel	2074197	2074197								
QPSK-4CC	Full RB	Full RB								
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result			
11	27.49330	-2.410	22.3	-24.710	-5	-19.710	Pass			
	27.47935	-2.406	22.3	-24.706	-13	-11.706	Pass			
120	27.49745	-2.545	22.3	-24.845	-5	-19.845	Pass			
139	27.48565	-2.573	22.3	-24.873	-13	-11.873	Pass			
44 + 420 () ()	27.49625	-3.448	22.3	-25.748	-5	-20.748	Pass			
11+139(Ver)	27.48555	-3.575	22.3	-25.875	-13	-12.875	Pass			
11+139(Hor)	27.49710	-2.481	22.3	-24.781	-5	-19.781	Pass			
	27.48105	-2.573	22.3	-24.873	-13	-11.873	Pass			

Note:

1. The Conducted Power = EIRP-Array Gain





Beam ID	Conducted Power for V Beam (dBm)	Conducted Power for H Beam (dBm)	Conducted Power for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 120	-25.748	-24.781	-22.22	-5	-17.22	Pass
11 + 139	-25.875	-24.873	-22.33	-13	-9.33	Pass



High Channel	2081515	2081515							
QPSK-4CC	Full RB	Full RB							
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result		
11	28.35655	-4.472	22.3	-26.772	-5	-21.772	Pass		
11	28.37230	-4.663	22.3	-26.963	-13	-13.963	Pass		
120	28.35850	-4.626	22.3	-26.926	-5	-21.926	Pass		
139	28.37255	-4.540	22.3	-26.840	-13	-13.840	Pass		
44 + 400 () ()	28.35555	-4.635	22.3	-26.935	-5	-21.935	Pass		
11+139(Ver)	28.36210	-4.450	22.3	-26.750	-13	-13.750	Pass		
11+139(Hor)	28.35650	-4.637	22.3	-26.937	-5	-21.937	Pass		
	28.36900	-4.617	22.3	-26.917	-13	-13.917	Pass		

Note:

1. The Conducted Power = EIRP-Array Gain





Beam ID	Conducted Power for V Beam (dBm)	Conducted Power for H Beam (dBm)	Conducted Power for V+H Beam (dBm)	Limit(dBm)	Margin(dB)	Result
11 120	-26.935	-26.937	-23.93	-5	-18.93	Pass
11 + 139	-26.750	-26.917	-23.82	-13	-10.82	Pass



4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

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

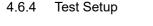
4.6.2 Test Instruments

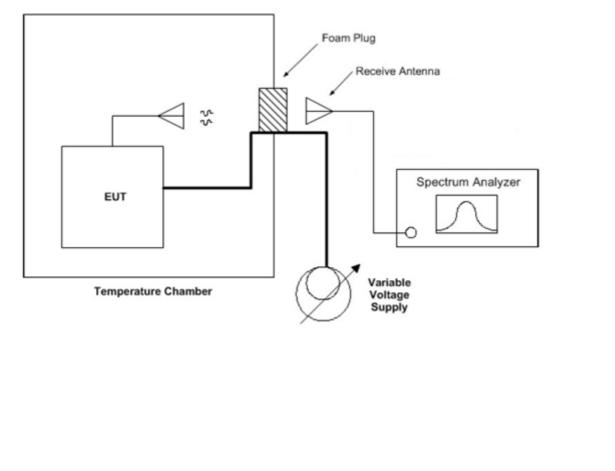
Refer to section 4.2.3 to get information of above instrument.

4.6.3 Test Procedure

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the AC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded from the communication simulator.







4.6.5 Test Results

Frequency Error vs. Voltage

	Band: n261					
Voltage (Vac)	Modulation: QPSK-1CC / Frequency : 27923.52MHz					
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail			
132	27923.530000	0.3581	Pass			
120	27923.520000	0.0000	Pass			
108	27923.540000	0.7162	Pass			

Frequency Error vs. Temperature

	Band: n261					
Temp. (℃)	Modulation: QPSK-1CC / Frequency : 27923.52MHz					
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail			
0	27923.680000	5.7299	Pass			
10	27923.630000	3.9393	Pass			
20	27923.590000	2.5068	Pass			
30	27923.510000	-0.3581	Pass			
40	27923.410000	-3.9393	Pass			



Frequency Error vs. Voltage

	Band: n261						
Voltage (Vac)	Modulation: 64QAM-1CC / Frequency : 27923.52MHz						
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail				
132	27923.530000	0.3581	Pass				
120	27923.520000	0.0000	Pass				
108	27923.540000	0.7162	Pass				

Frequency Error vs. Temperature

	Band: n261					
Temp. (℃)	Modulation: 64QAM-1CC / Frequency : 27923.52MHz					
	Frequency (MHz)	Frequency Error (ppm)	Pass/Fail			
0	27923.680000	5.7299	Pass			
10	27923.630000	3.9393	Pass			
20	27923.590000	2.5068	Pass			
30	27923.510000	-0.3581	Pass			
40	27923.410000	-3.9393	Pass			

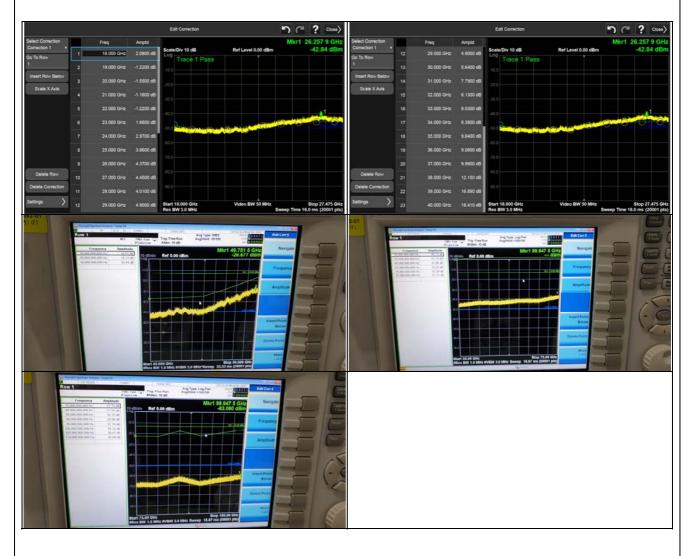


5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



Annex A - Factor to 100GHz





Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

FCC accreditation scope:

Web Site:

https://apps.fcc.gov/oetcf/eas/reports/ViewTestFirmAccredScopes.cfm?calledFromFrame=N&RequestTimeo ut=500®num_specified=N&test_firm_id=7635

<u>Scope</u>	FCC Rule Parts	Maximum Assessed Frequency in Mhz	<u>Status</u>	<u>Expiration</u> Date	Recognition Date
Intentional Radiators	FCC Part 15 Subpart C	300000.00	Approved	08-06-2020	07-06-2017
U-NII without DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-06-2020	07-06-2017
U-NII with DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-06-2020	07-06-2017
UWB Intentional Radiators	FCC Part 15, Subpart F	30000.00	Approved	08-06-2020	07-06-2017
BPL Intentional Radiators	FCC Part 15, Subpart G	300000.00	Approved	08-06-2020	07-06-2017
White Space Device Intentional Radiators	FCC Part 15, Subpart H	30000.00	Approved	08-06-2020	07-06-2017
Commercial Mobile Services	Part 22 (cellular), Part 24, Part 25 (below 3 GHz), Part 27	300000.00	Approved	08-06-2020	07-06-2017
General Mobile Radio Services	Part 22 (non-cellular), Part 90 (below 3 GHz), Part 95 (below 3 GHz), Part 97 (below 3 GHz),Part 101 (below 3 GHz)	300000.00	Approved	08-06-2020	07-06-2017
Citizens Broadband Radio Services	Part 96	30000.00	Approved	08-06-2020	07-06-2017
Maritime and Aviation Radio Services	Part 80, Part 87	30000.00	Approved	08-06-2020	07-06-2017
Microwave and Millimeter Bands Radio Services	Part 25 (above 3 GHz), Part 30, Part 74, Part 90 (above 3 GHz), Part 95 (above 3 GHz), Part 97 (above 3 GHz) Part 101	300000.00	Approved	08-06-2020	07-06-2017
RF Exposure		6000.00	Approved	08-06-2020	07-06-2017
Hearing Aid Compatibility	Part 20	6000.00	Approved	08-06-2020	07-06-2017
Signal Boosters	Part 20, Part 90.219	30000.00	Approved	08-06-2020	07-06-2017

If you have any comments, please feel free to contact us at the following:

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Hsin Chu EMC/RF/Telecom Lab Tel: 886-3-6668565 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <u>service.adt@tw.bureauveritas.com</u> Web Site: <u>www.bureauveritas-adt.com</u>

The address and road map of all our labs can be found in our web site also.

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