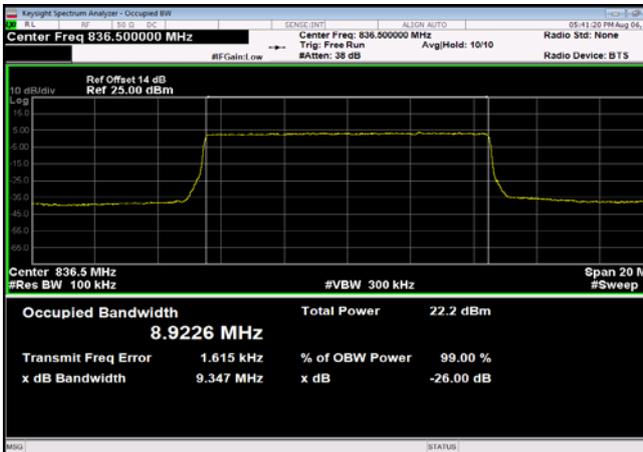
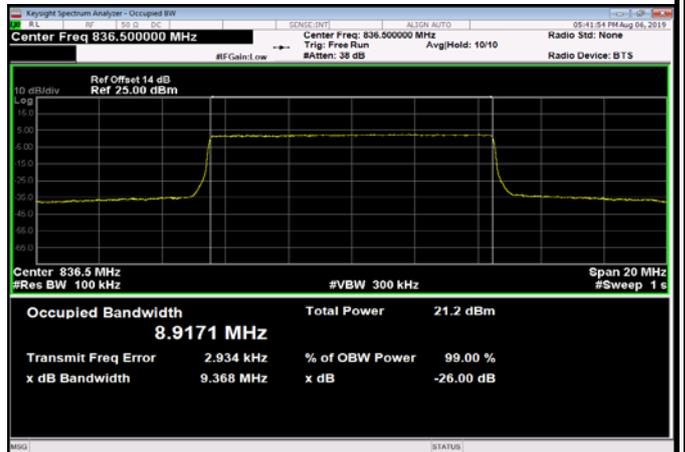




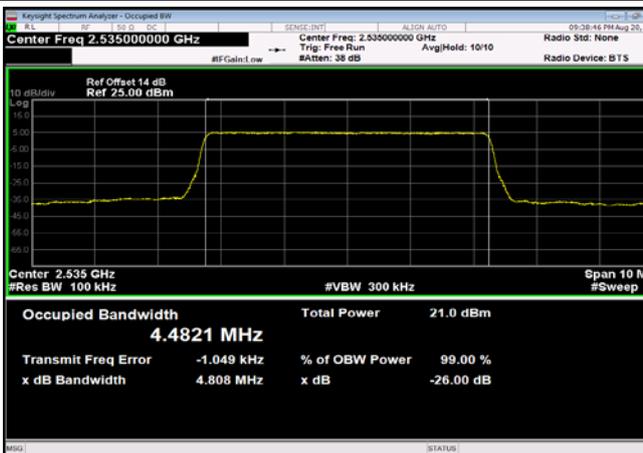
FDD05\_MidRange\_10\_836.5\_QPSK



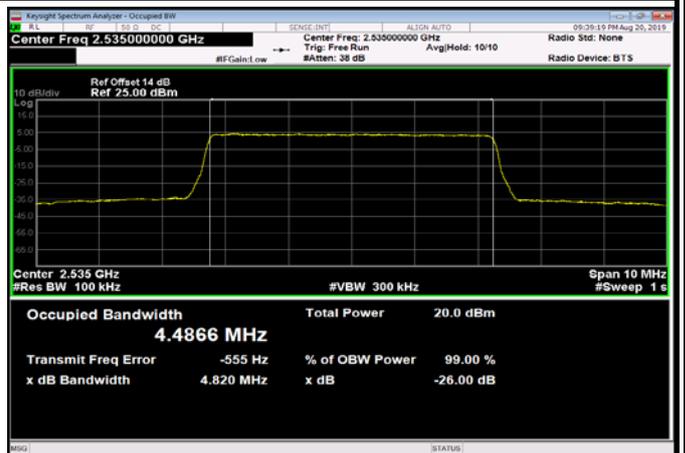
FDD05\_MidRange\_10\_836.5\_Q16



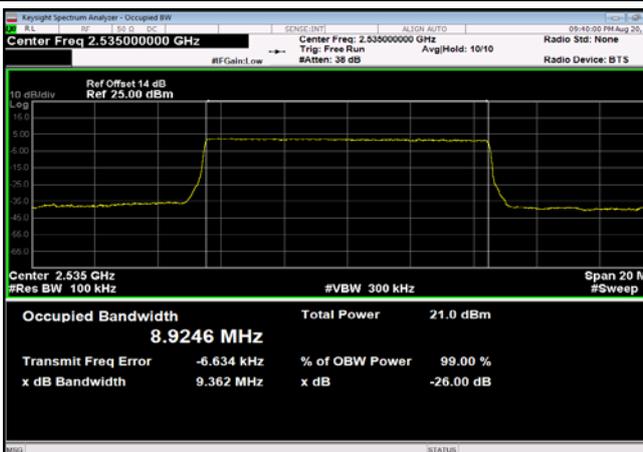
FDD07\_MidRange\_5\_2535\_QPSK



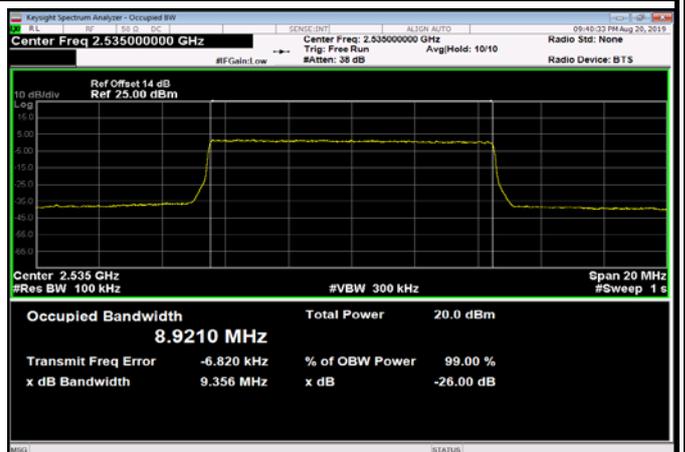
FDD07\_MidRange\_5\_2535\_Q16



FDD07\_MidRange\_10\_2535\_QPSK

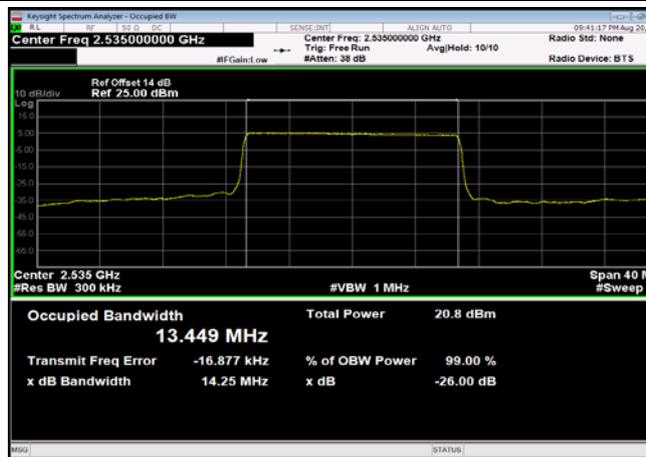


FDD07\_MidRange\_10\_2535\_Q16

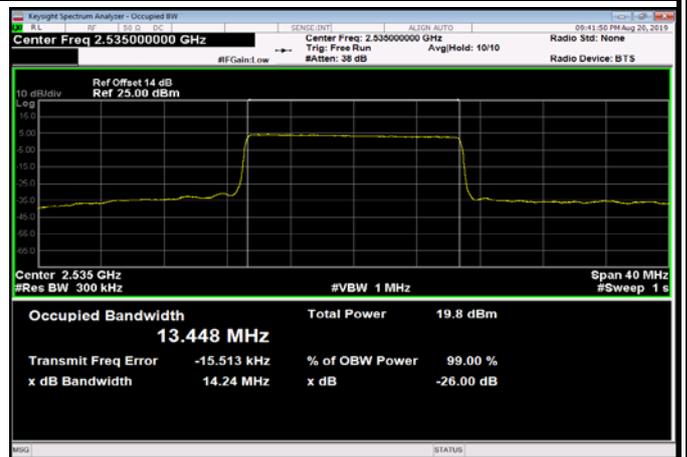




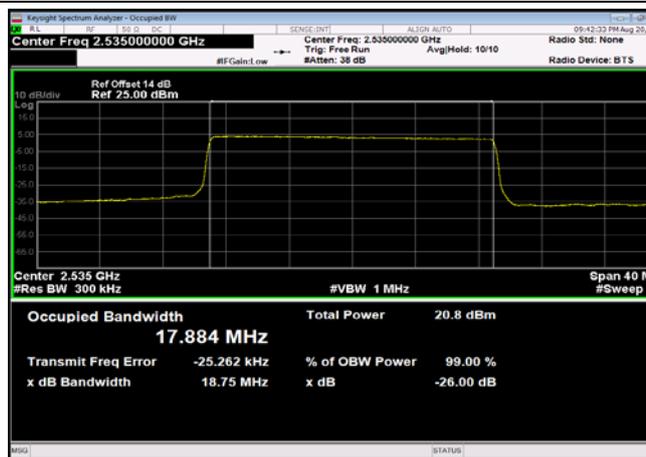
FDD07\_MidRange\_15\_2535\_QPSK



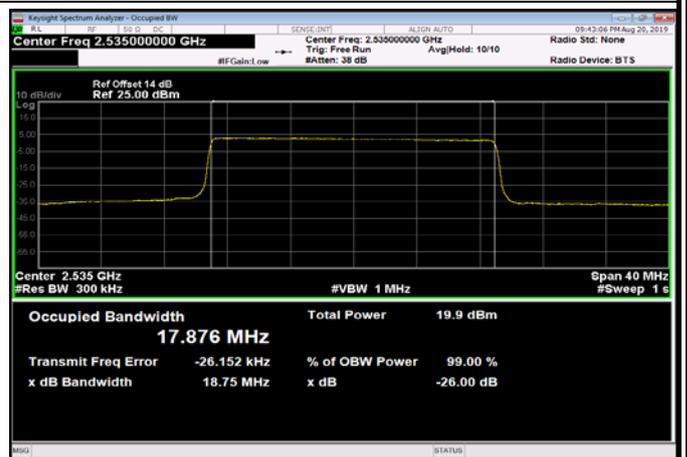
FDD07\_MidRange\_15\_2535\_Q16



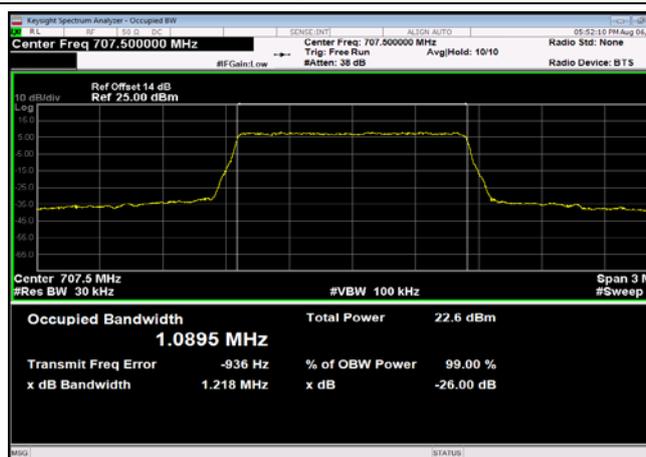
FDD07\_MidRange\_20\_2535\_QPSK



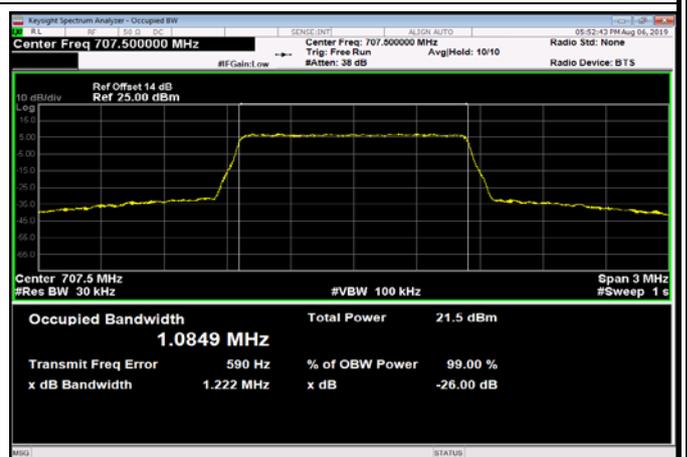
FDD07\_MidRange\_20\_2535\_Q16



FDD12\_MidRange\_1.4\_707.5\_QPSK

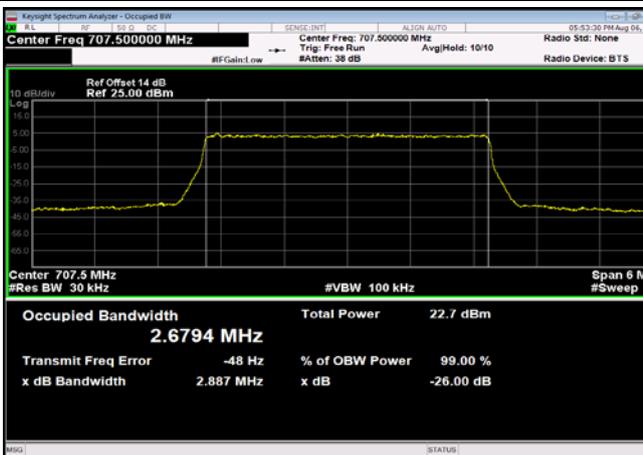


FDD12\_MidRange\_1.4\_707.5\_Q16

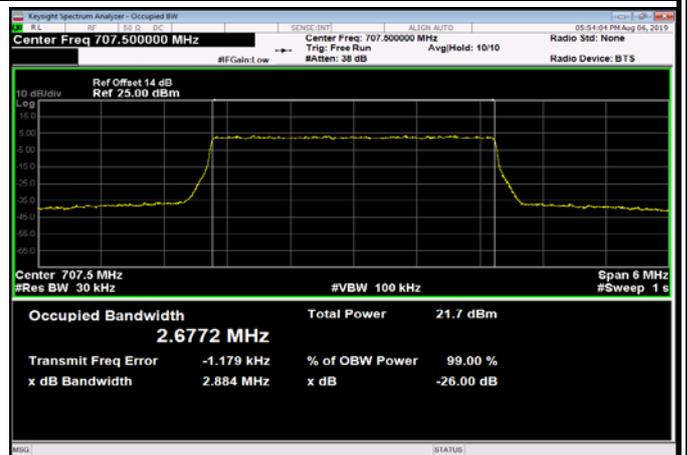




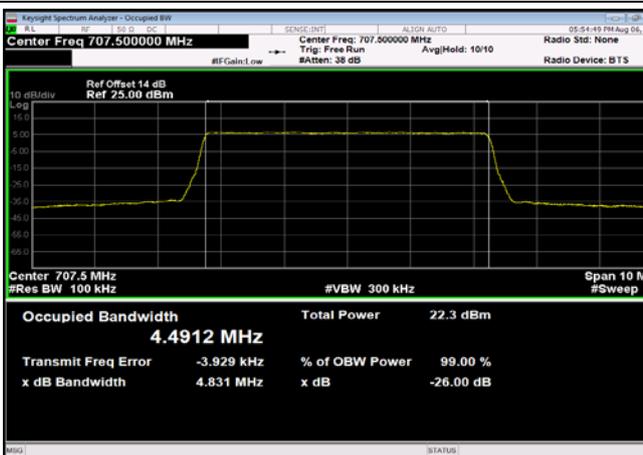
FDD12\_MidRange\_3\_707.5\_QPSK



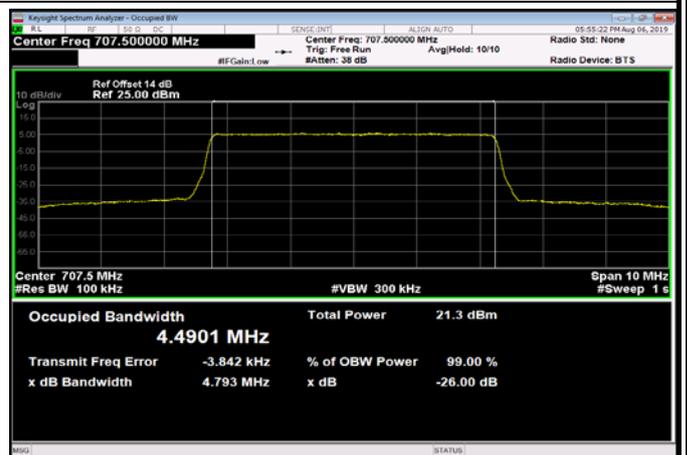
FDD12\_MidRange\_3\_707.5\_Q16



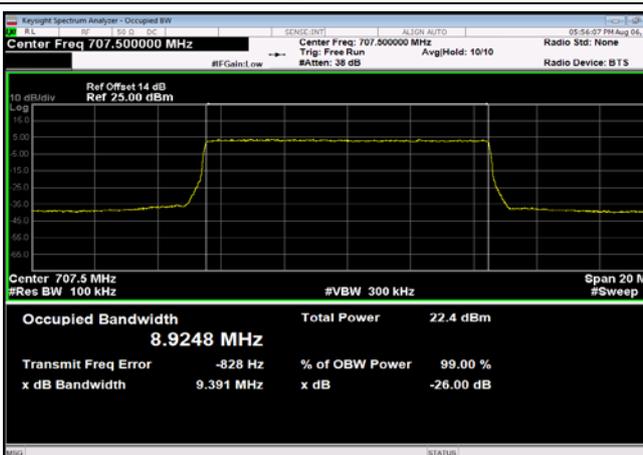
FDD12\_MidRange\_5\_707.5\_QPSK



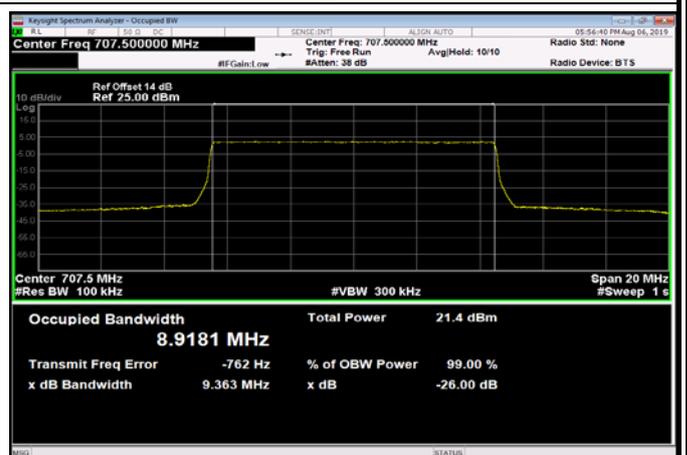
FDD12\_MidRange\_5\_707.5\_Q16



FDD12\_MidRange\_10\_707.5\_QPSK

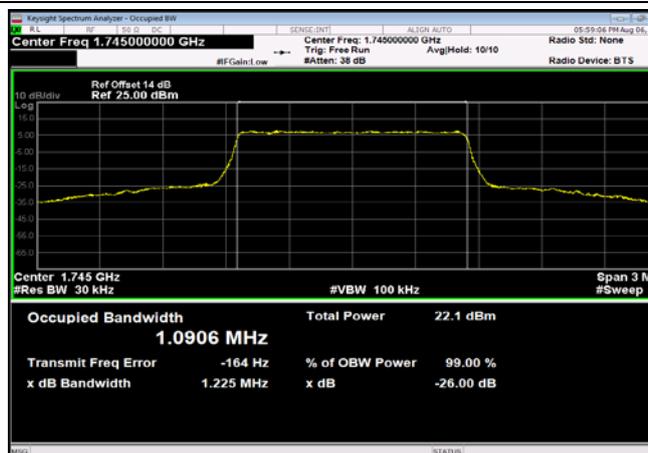


FDD12\_MidRange\_10\_707.5\_Q16

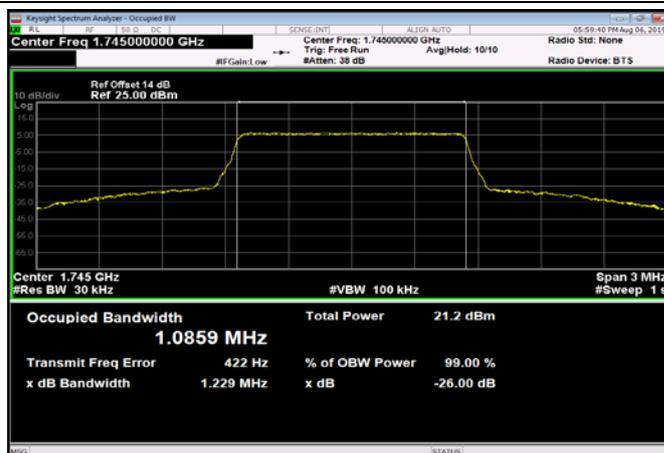




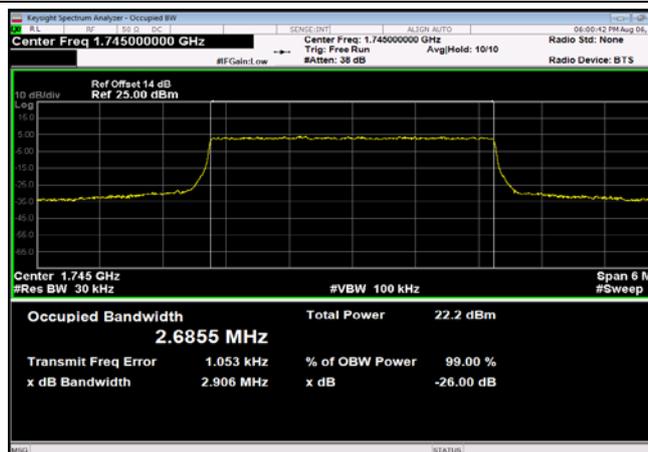
FDD66\_MidRange\_1.4\_1745\_QPSK



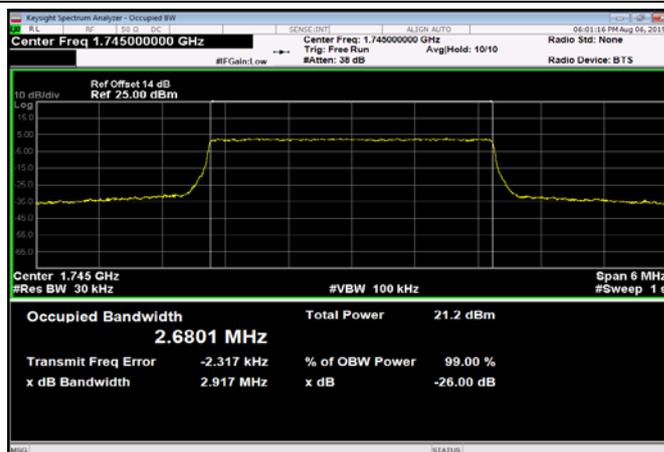
FDD66\_MidRange\_1.4\_1745\_Q16



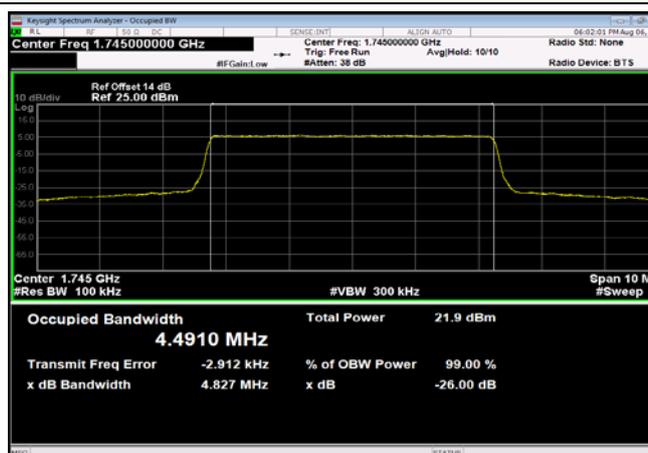
FDD66\_MidRange\_3\_1745\_QPSK



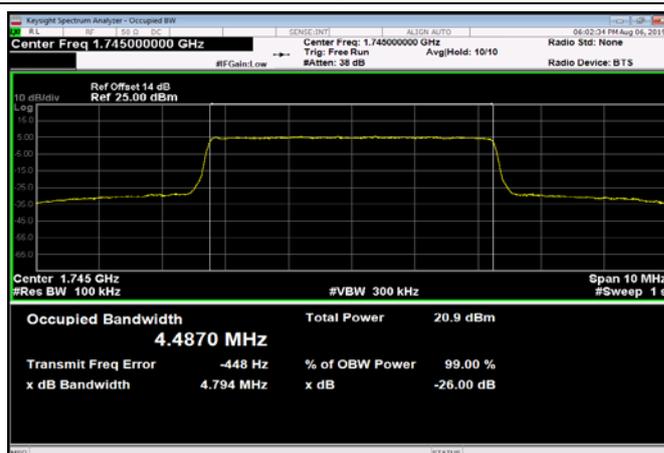
FDD66\_MidRange\_3\_1745\_Q16



FDD66\_MidRange\_5\_1745\_QPSK

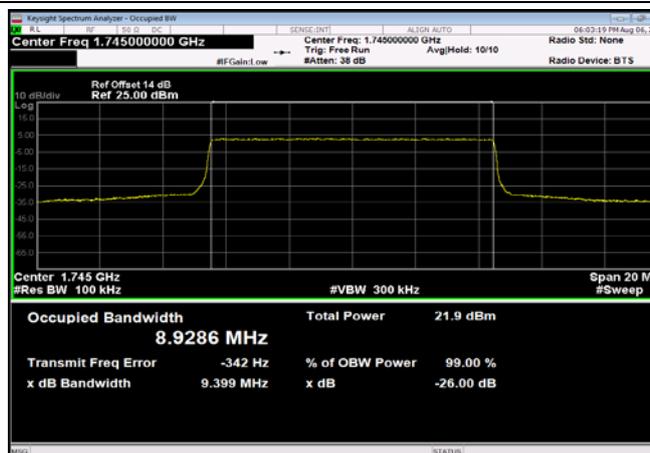


FDD66\_MidRange\_5\_1745\_Q16

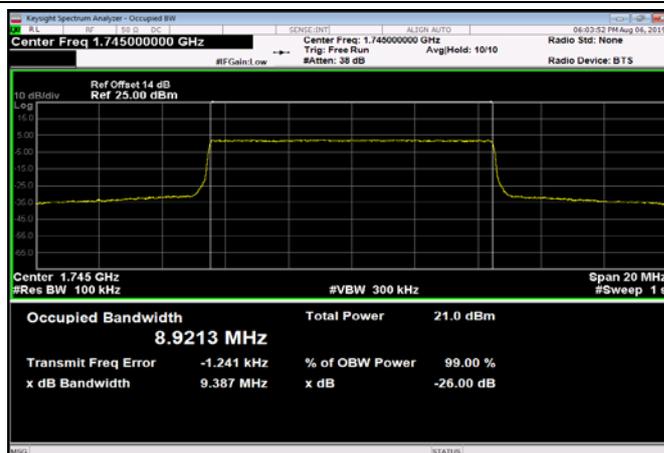




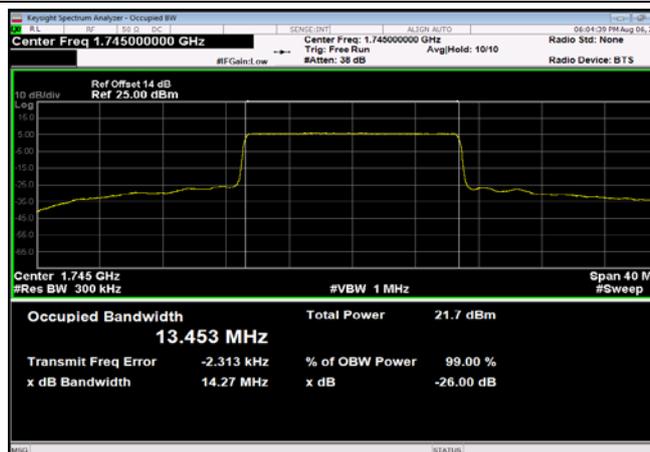
FDD66\_MidRange\_10\_1745\_QPSK



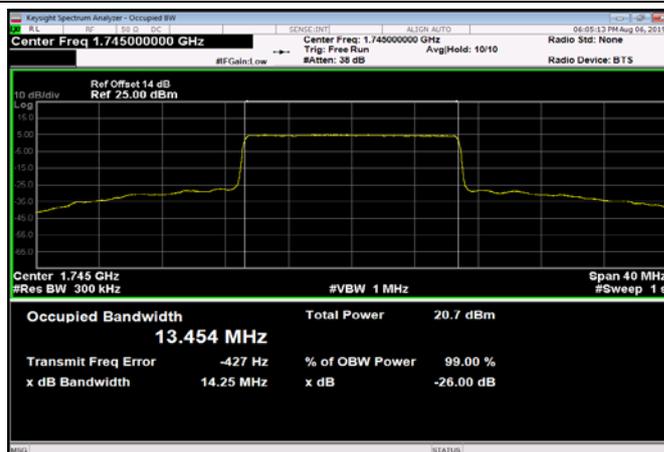
FDD66\_MidRange\_10\_1745\_Q16



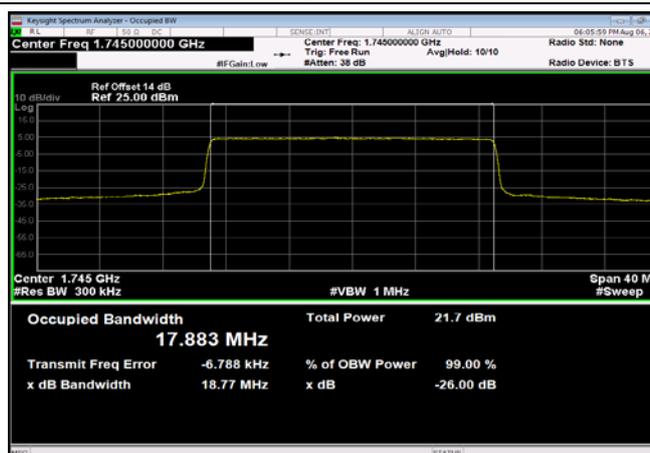
FDD66\_MidRange\_15\_1745\_QPSK



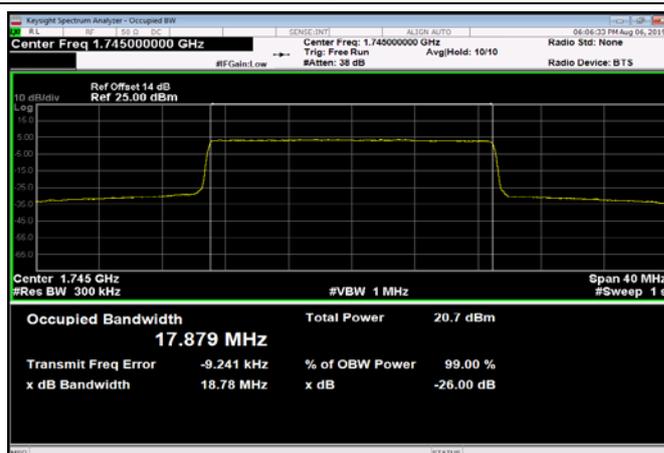
FDD66\_MidRange\_15\_1745\_Q16



FDD66\_MidRange\_20\_1745\_QPSK



FDD66\_MidRange\_20\_1745\_Q16





## 26dB Bandwidth

### Test Result and Data

Emission Bandwidth NormalTC_NormalVol					
Band	Range	BandWidth	Frequency (MHz)	Modulation	EmissionBandwidth (MHz)
FDD02	MidRange	1.4	1880	QPSK	1.223
FDD02	MidRange	1.4	1880	Q16	1.227
FDD02	MidRange	3	1880	QPSK	2.97
FDD02	MidRange	3	1880	Q16	2.96
FDD02	MidRange	5	1880	QPSK	4.83
FDD02	MidRange	5	1880	Q16	4.80
FDD02	MidRange	10	1880	QPSK	9.37
FDD02	MidRange	10	1880	Q16	9.37
FDD02	MidRange	15	1880	QPSK	14.25
FDD02	MidRange	15	1880	Q16	14.24
FDD02	MidRange	20	1880	QPSK	18.74
FDD02	MidRange	20	1880	Q16	18.75
FDD04	MidRange	1.4	1732.5	QPSK	1.22
FDD04	MidRange	1.4	1732.5	Q16	1.22
FDD04	MidRange	3	1732.5	QPSK	2.97
FDD04	MidRange	3	1732.5	Q16	2.97
FDD04	MidRange	5	1732.5	QPSK	4.84
FDD04	MidRange	5	1732.5	Q16	4.79
FDD04	MidRange	10	1732.5	QPSK	9.37
FDD04	MidRange	10	1732.5	Q16	9.38
FDD04	MidRange	15	1732.5	QPSK	14.25
FDD04	MidRange	15	1732.5	Q16	14.23
FDD04	MidRange	20	1732.5	QPSK	18.74
FDD04	MidRange	20	1732.5	Q16	18.75
FDD05	MidRange	1.4	836.5	QPSK	1.21
FDD05	MidRange	1.4	836.5	Q16	1.22
FDD05	MidRange	3	836.5	QPSK	2.97



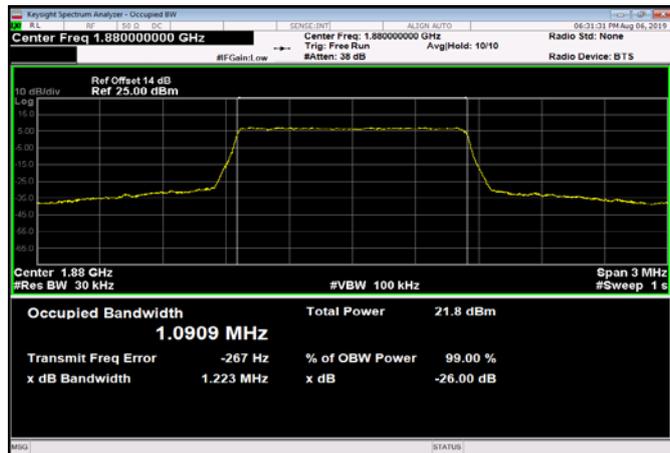
FDD05	MidRange	3	836.5	Q16	2.96
FDD05	MidRange	5	836.5	QPSK	4.82
FDD05	MidRange	5	836.5	Q16	4.80
FDD05	MidRange	10	836.5	QPSK	9.38
FDD05	MidRange	10	836.5	Q16	9.36
FDD07	MidRange	5	2535	QPSK	4.81
FDD07	MidRange	5	2535	Q16	4.82
FDD07	MidRange	10	2535	QPSK	9.36
FDD07	MidRange	10	2535	Q16	9.37
FDD07	MidRange	15	2535	QPSK	14.24
FDD07	MidRange	15	2535	Q16	14.23
FDD07	MidRange	20	2535	QPSK	18.74
FDD07	MidRange	20	2535	Q16	18.75
FDD12	MidRange	1.4	707.5	QPSK	1.22
FDD12	MidRange	1.4	707.5	Q16	1.22
FDD12	MidRange	3	707.5	QPSK	2.96
FDD12	MidRange	3	707.5	Q16	2.97
FDD12	MidRange	5	707.5	QPSK	4.83
FDD12	MidRange	5	707.5	Q16	4.80
FDD12	MidRange	10	707.5	QPSK	9.4
FDD12	MidRange	10	707.5	Q16	9.36
FDD66	MidRange	1.4	1745	QPSK	1.23
FDD66	MidRange	1.4	1745	Q16	1.23
FDD66	MidRange	3	1745	QPSK	2.98
FDD66	MidRange	3	1745	Q16	2.98
FDD66	MidRange	5	1745	QPSK	4.83
FDD66	MidRange	5	1745	Q16	4.80
FDD66	MidRange	10	1745	QPSK	9.40
FDD66	MidRange	10	1745	Q16	9.38
FDD66	MidRange	15	1745	QPSK	14.26
FDD66	MidRange	15	1745	Q16	14.26
FDD66	MidRange	20	1745	QPSK	18.76



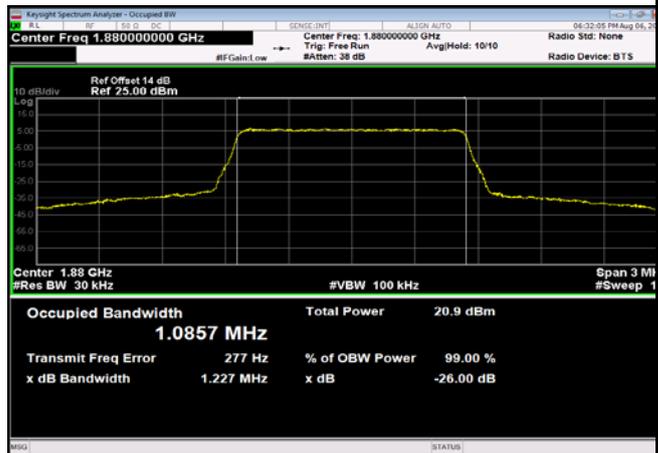
FDD66	MidRange	20	1745	Q16	18.77



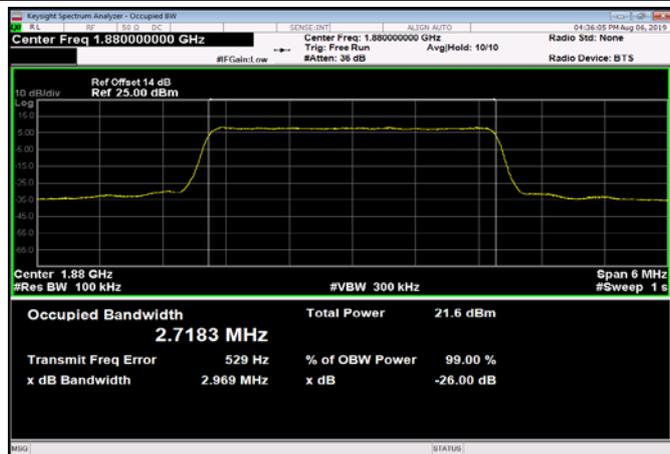
### FDD02\_MidRange\_1.4MHz\_1880MHz\_QPSK



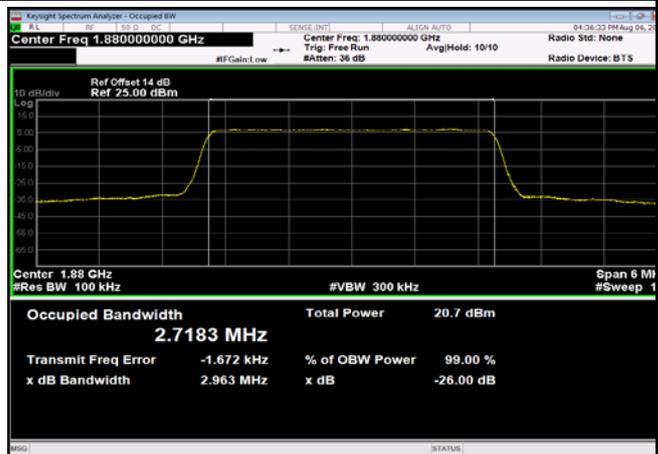
### FDD02\_MidRange\_1.4MHz\_1880MHz\_Q16



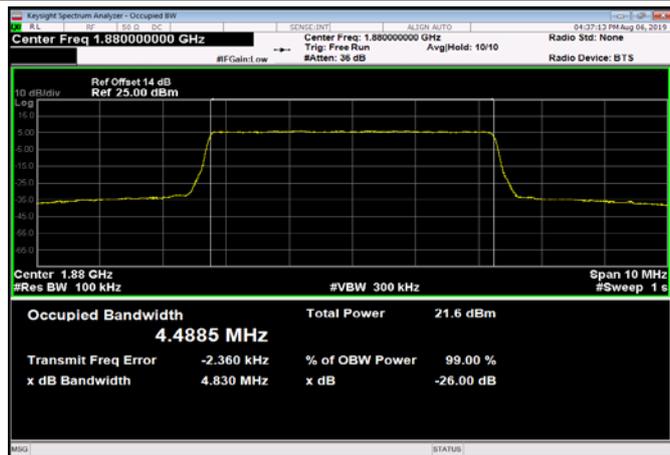
### FDD02\_MidRange\_3MHz\_1880MHz\_QPSK



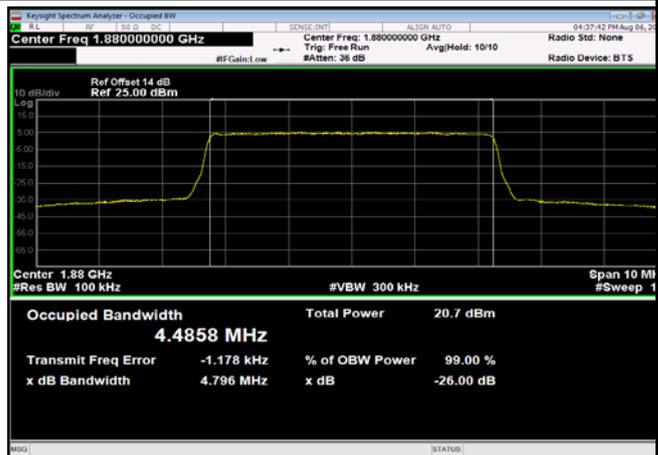
### FDD02\_MidRange\_3MHz\_1880MHz\_Q16



### FDD02\_MidRange\_5MHz\_1880MHz\_QPSK

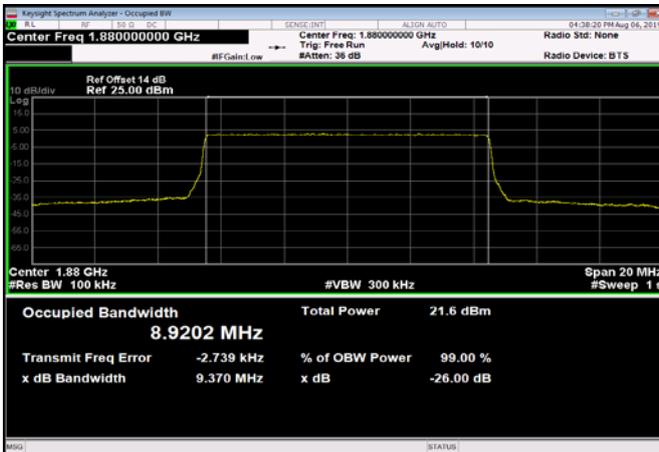


### FDD02\_MidRange\_5MHz\_1880MHz\_Q16

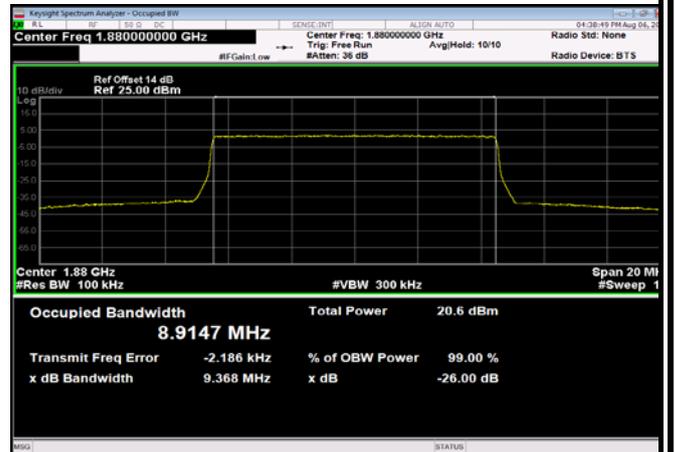




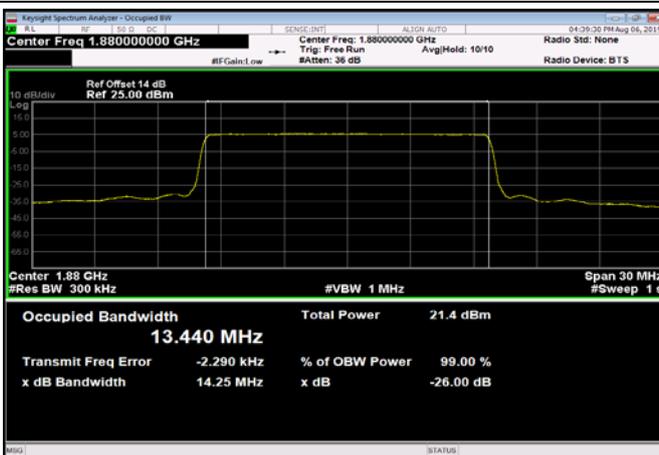
FDD02\_MidRange\_10MHz\_1880MHz\_QPSK



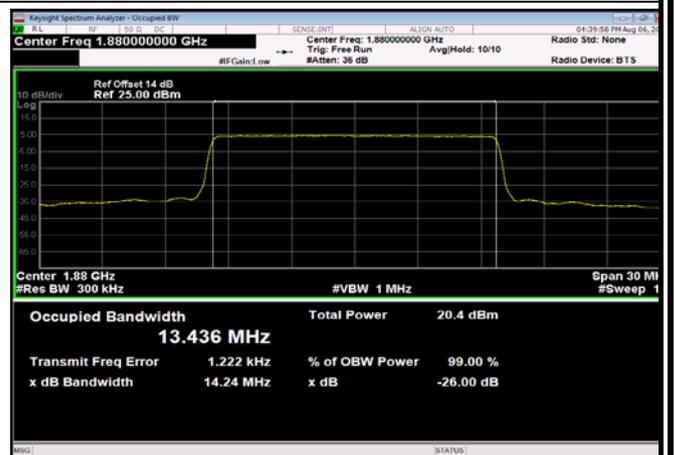
FDD02\_MidRange\_10MHz\_1880MHz\_Q16



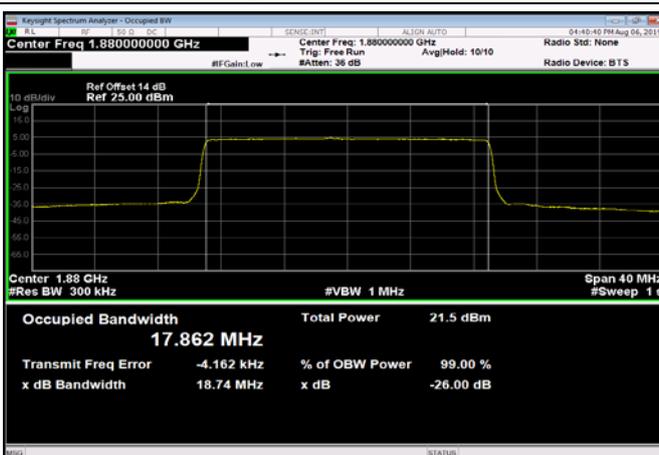
FDD02\_MidRange\_15MHz\_1880MHz\_QPSK



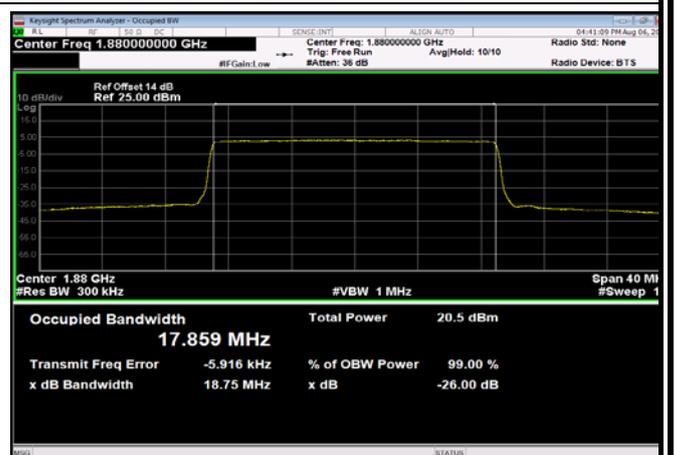
FDD02\_MidRange\_15MHz\_1880MHz\_Q16



FDD02\_MidRange\_20MHz\_1880MHz\_QPSK

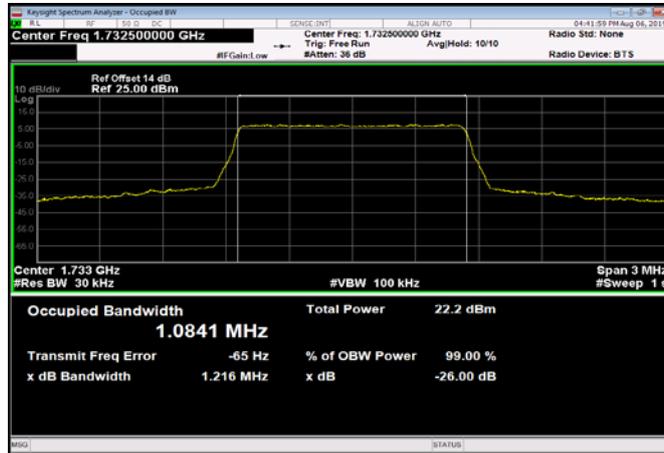


FDD02\_MidRange\_20MHz\_1880MHz\_Q16

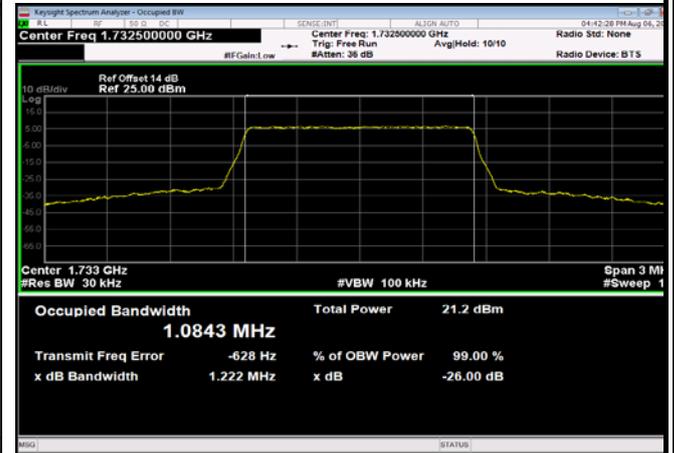




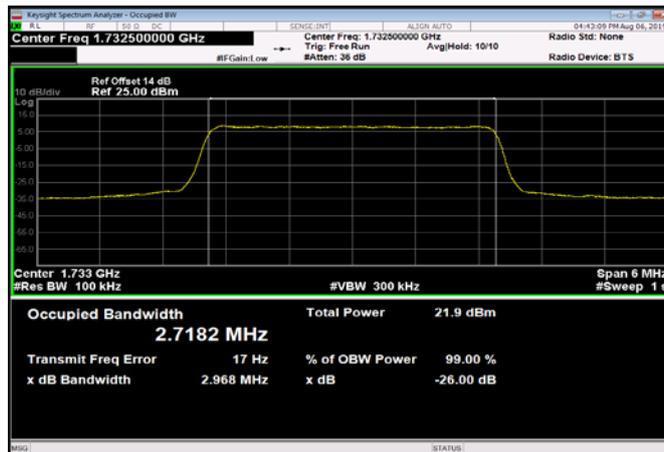
### FDD04\_MidRange\_1.4MHz\_1732.5MHz\_QPSK



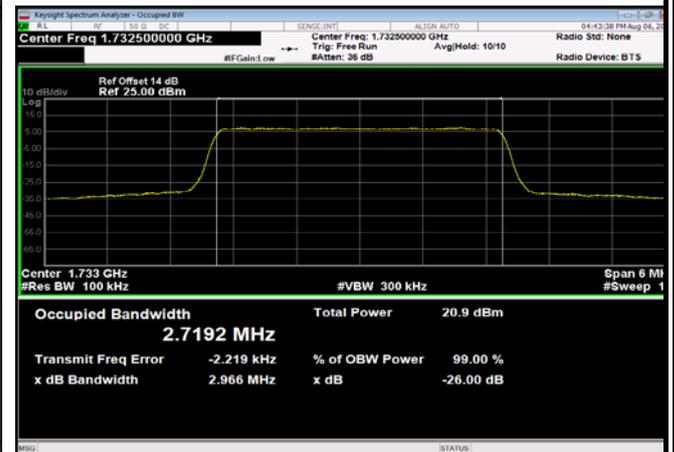
### FDD04\_MidRange\_1.4MHz\_1732.5MHz\_Q16



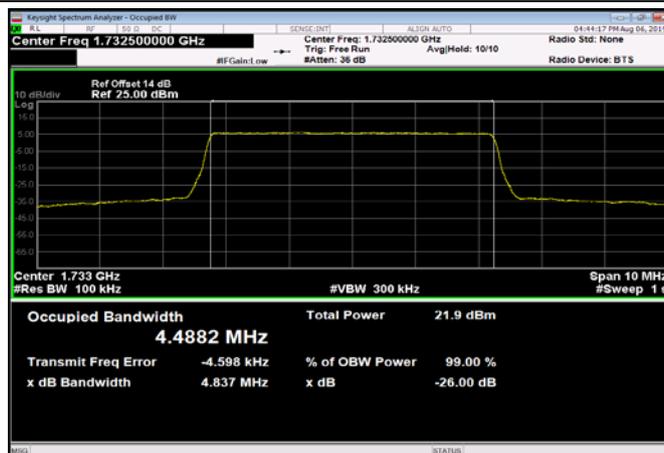
### FDD04\_MidRange\_3MHz\_1732.5MHz\_QPSK



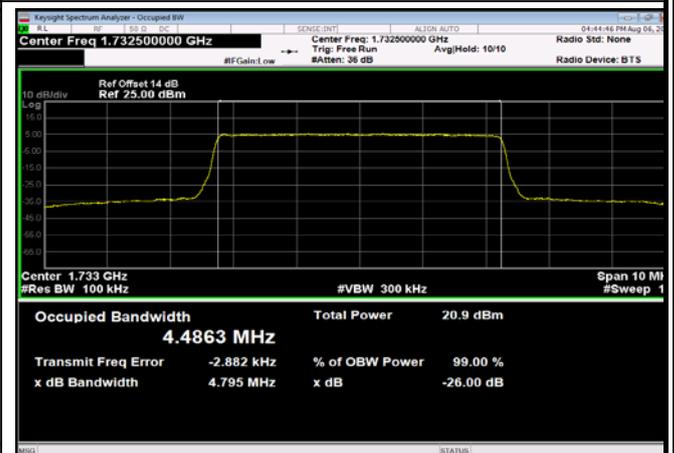
### FDD04\_MidRange\_3MHz\_1732.5MHz\_Q16



### FDD04\_MidRange\_5MHz\_1732.5MHz\_QPSK

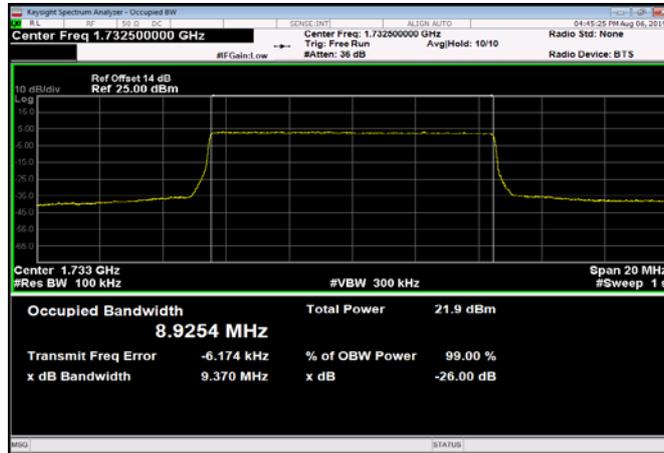


### FDD04\_MidRange\_5MHz\_1732.5MHz\_Q16

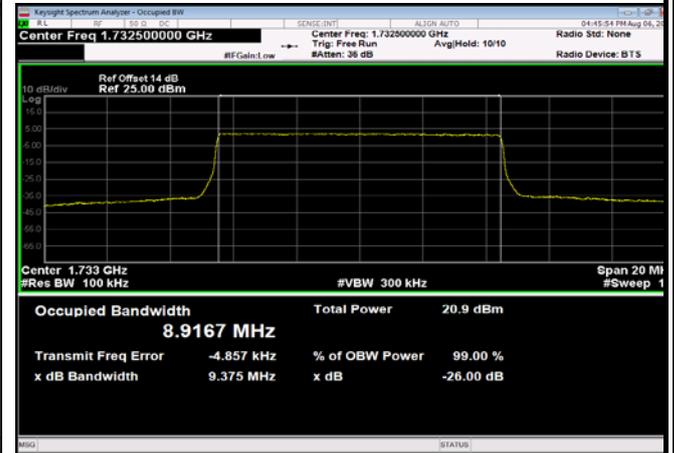




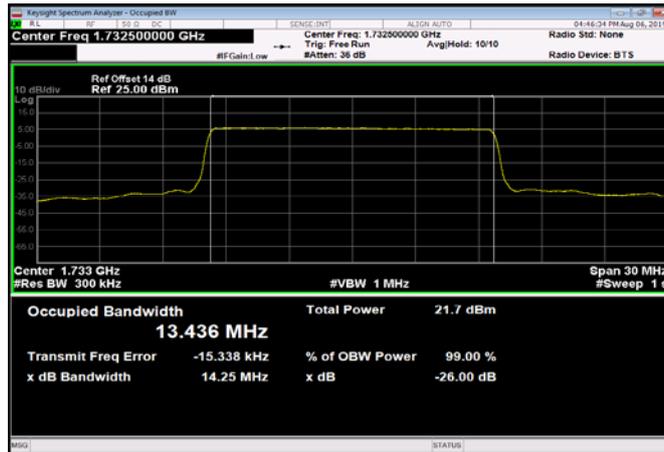
FDD04\_MidRange\_10MHz\_1732.5MHz  
\_QPSK



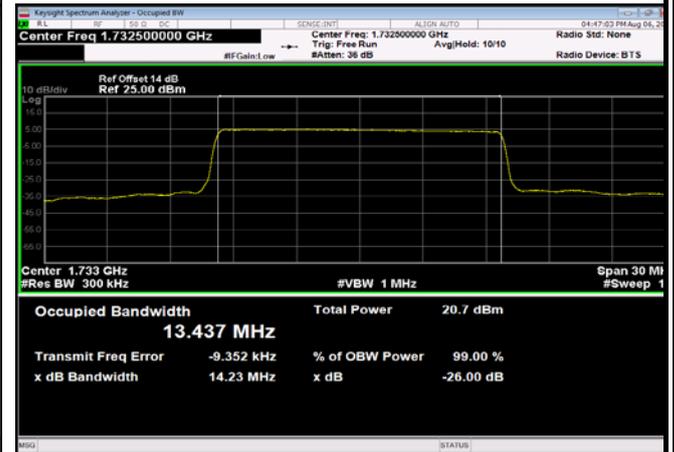
FDD04\_MidRange\_10MHz\_1732.5MHz  
\_Q16



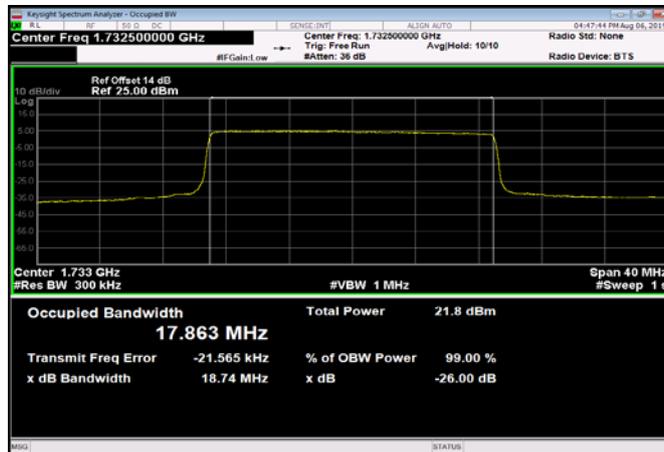
FDD04\_MidRange\_15MHz\_1732.5MHz  
\_QPSK



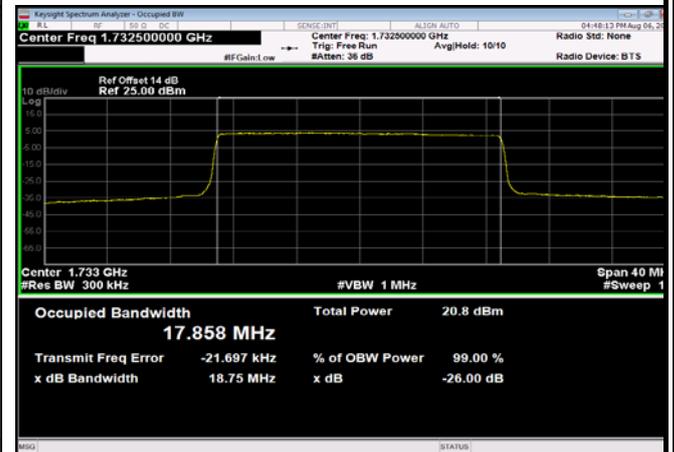
FDD04\_MidRange\_15MHz\_1732.5MHz  
\_Q16



FDD04\_MidRange\_20MHz\_1732.5MHz  
\_QPSK

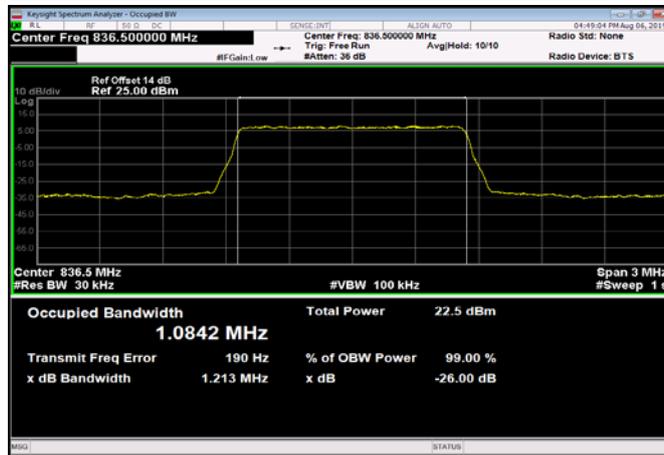


FDD04\_MidRange\_20MHz\_1732.5MHz  
\_Q16

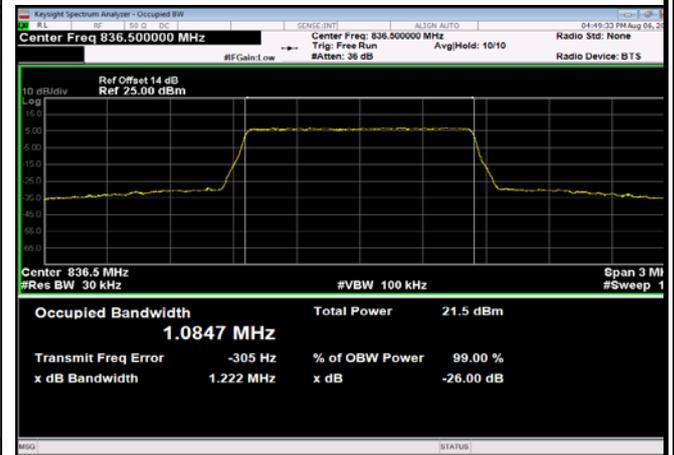




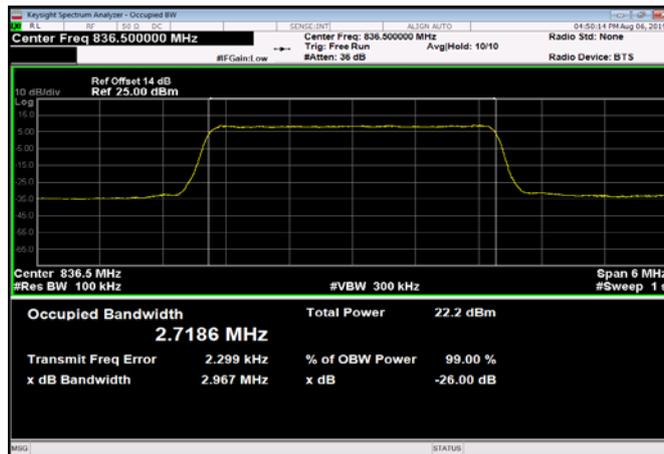
### FDD05\_MidRange\_1.4MHz\_836.5MHz\_QPSK



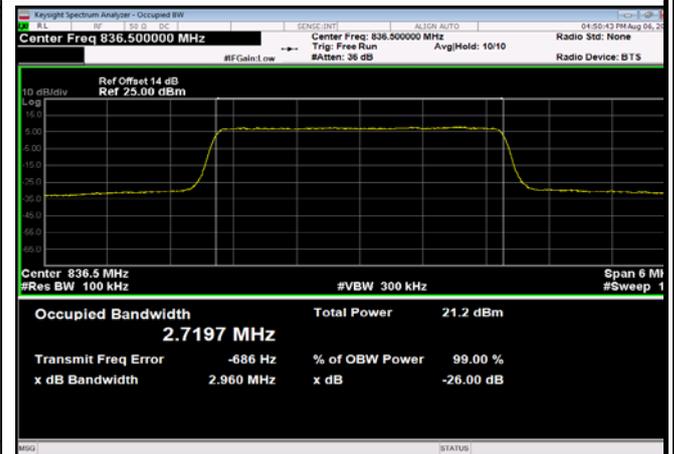
### FDD05\_MidRange\_1.4MHz\_836.5MHz\_Q16



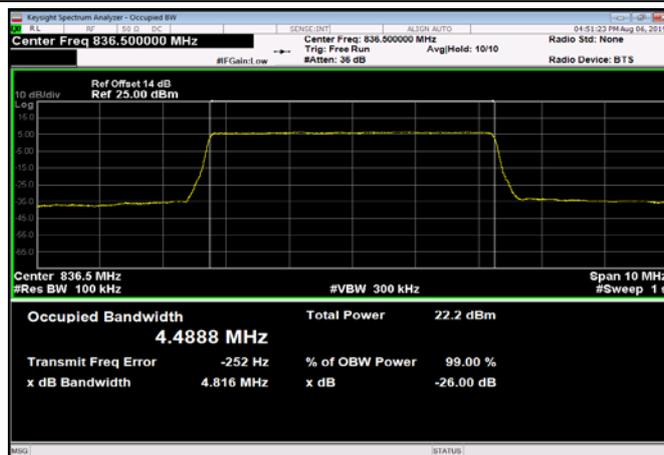
### FDD05\_MidRange\_3MHz\_836.5MHz\_QPSK



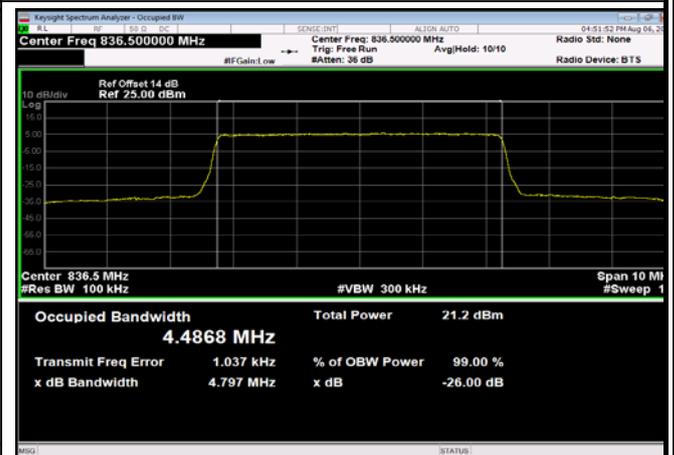
### FDD05\_MidRange\_3MHz\_836.5MHz\_Q16



### FDD05\_MidRange\_5MHz\_836.5MHz\_QPSK

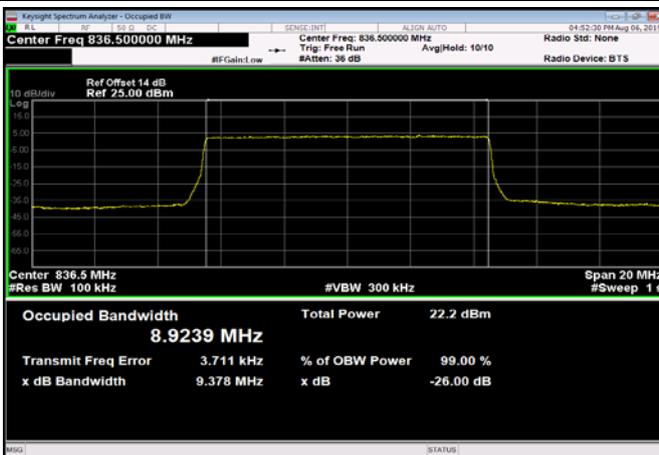


### FDD05\_MidRange\_5MHz\_836.5MHz\_Q16

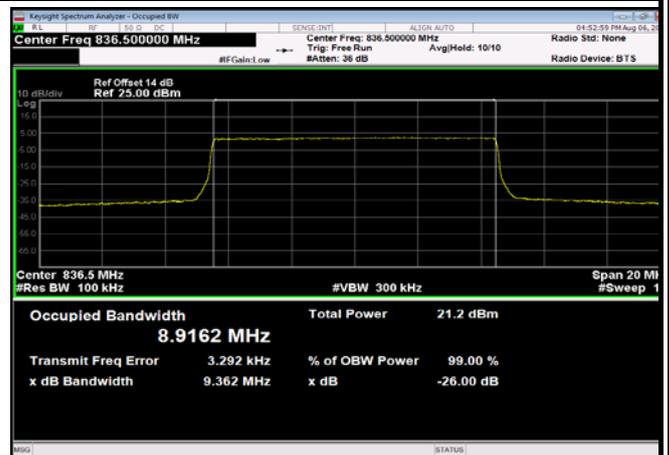




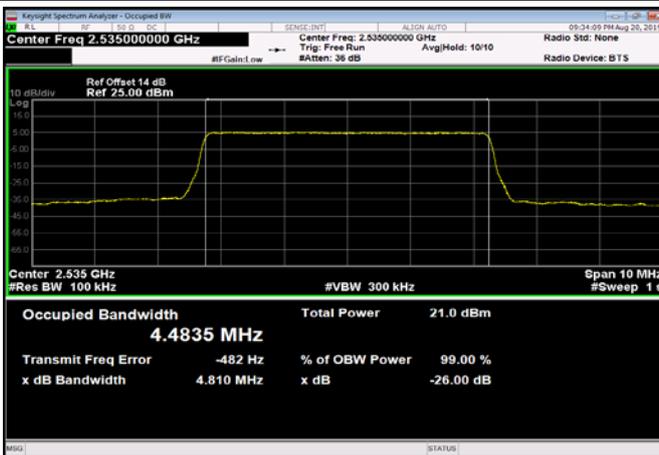
FDD05\_MidRange\_10MHz\_836.5MHz\_QPSK



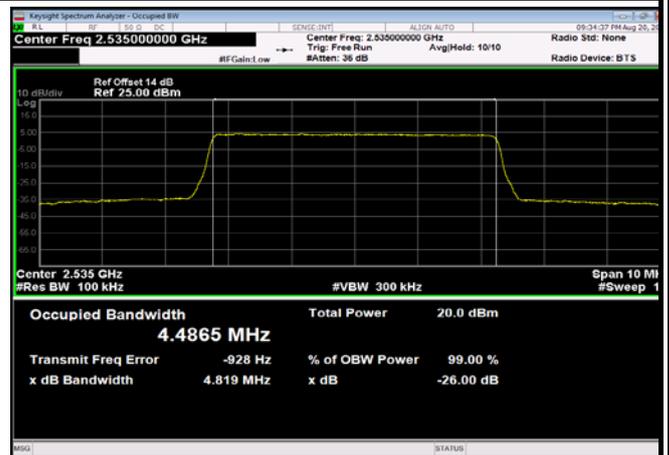
FDD05\_MidRange\_10MHz\_836.5MHz\_Q16



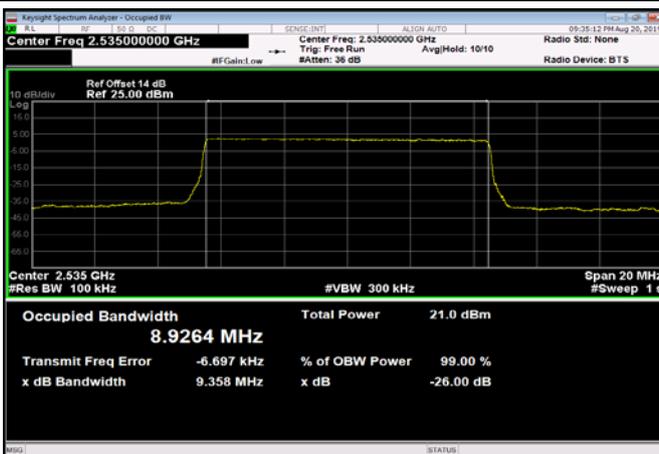
FDD07\_MidRange\_5MHz\_2535MHz\_QPSK



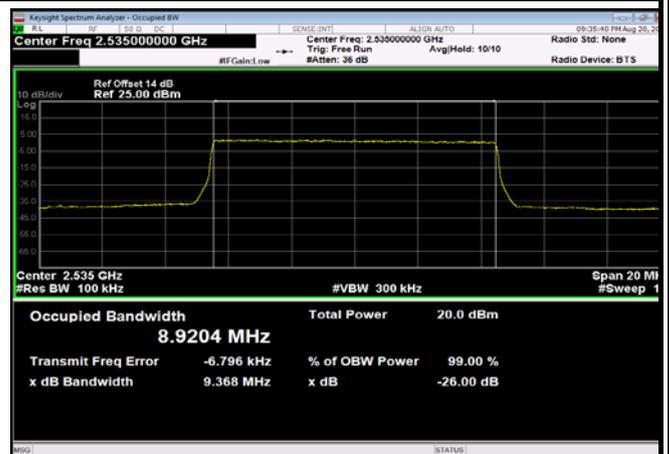
FDD07\_MidRange\_5MHz\_2535MHz\_Q16



FDD07\_MidRange\_10MHz\_2535MHz\_QPSK

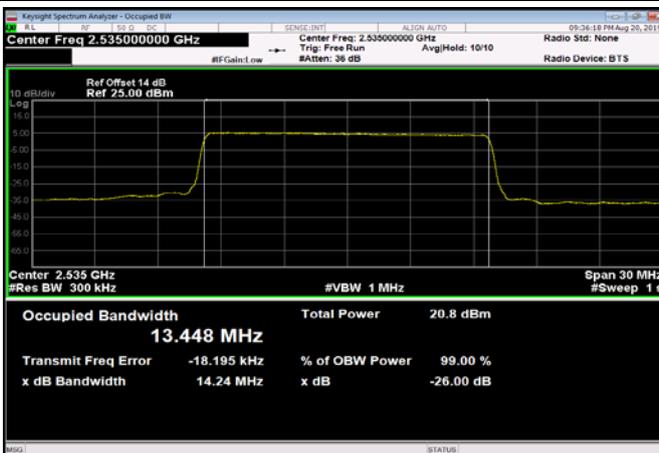


FDD07\_MidRange\_10MHz\_2535MHz\_Q16

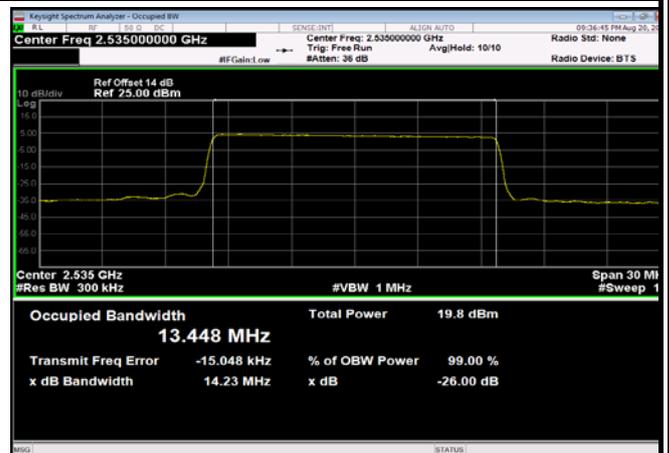




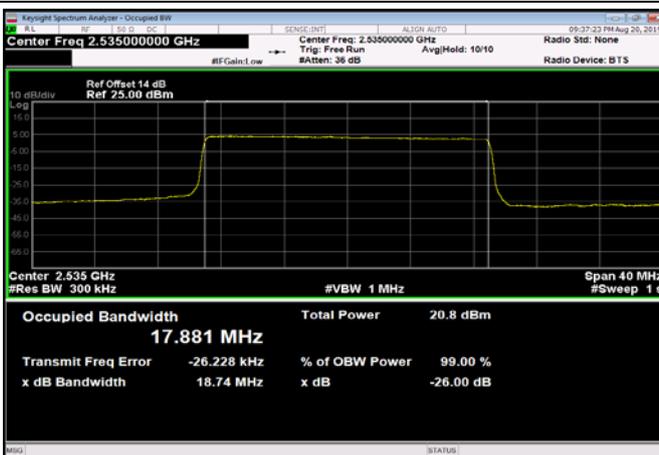
FDD07\_MidRange\_15MHz\_2535MHz\_QPSK



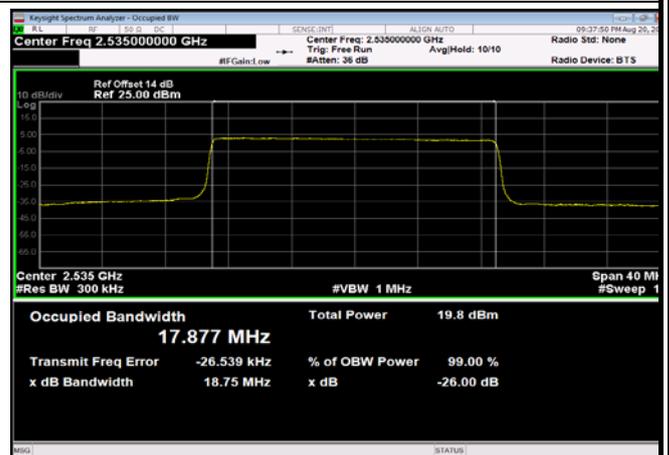
FDD07\_MidRange\_15MHz\_2535MHz\_Q16



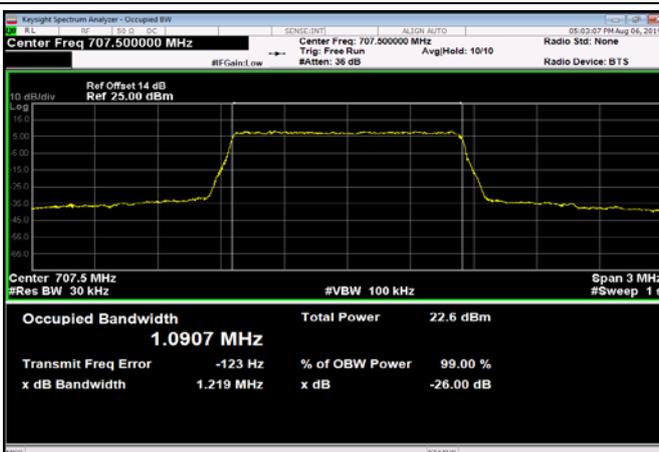
FDD07\_MidRange\_20MHz\_2535MHz\_QPSK



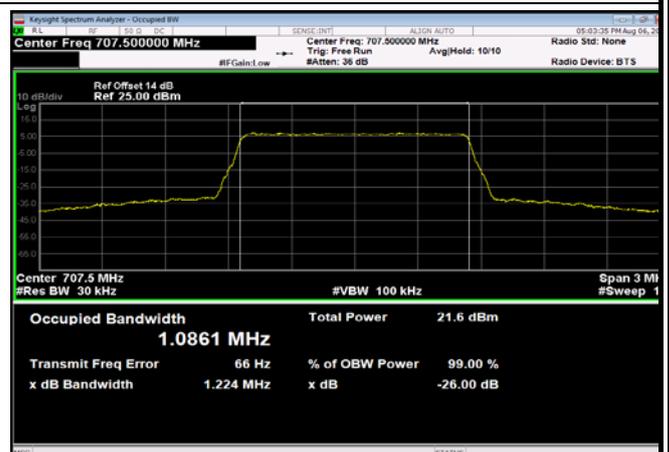
FDD07\_MidRange\_20MHz\_2535MHz\_Q16



FDD12\_MidRange\_1.4MHz\_707.5MHz\_QPSK

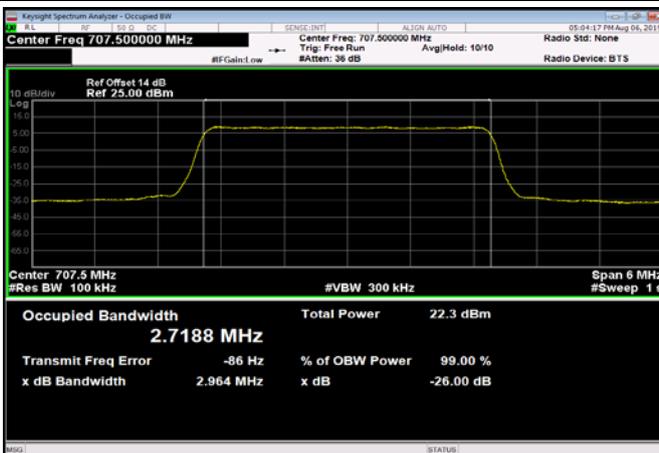


FDD12\_MidRange\_1.4MHz\_707.5MHz\_Q16

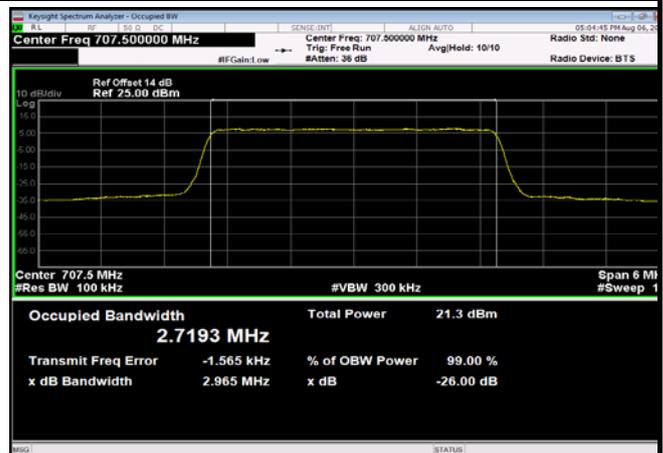




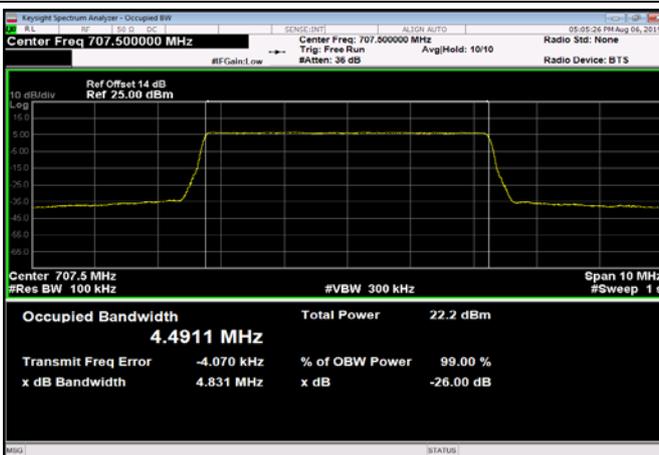
FDD12\_MidRange\_3MHz\_707.5MHz\_QPSK



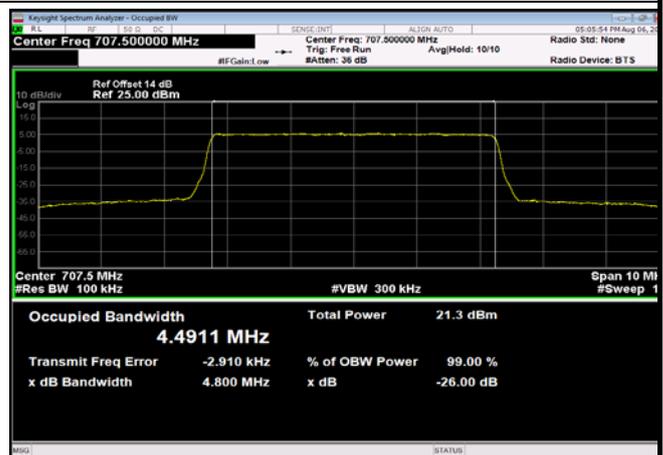
FDD12\_MidRange\_3MHz\_707.5MHz\_Q16



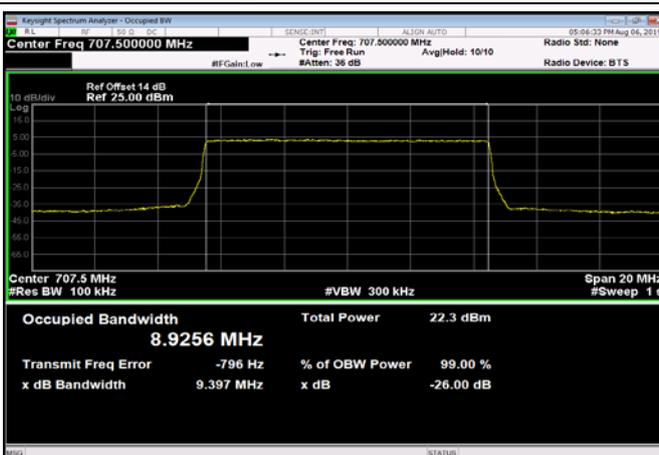
FDD12\_MidRange\_5MHz\_707.5MHz\_QPSK



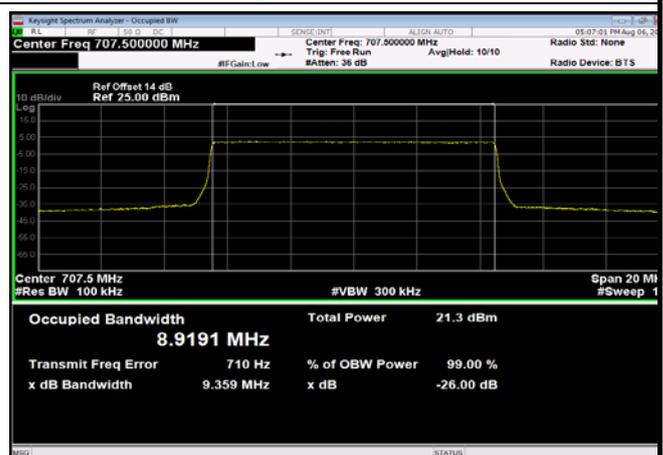
FDD12\_MidRange\_5MHz\_707.5MHz\_Q16



FDD12\_MidRange\_10MHz\_707.5MHz\_QPSK

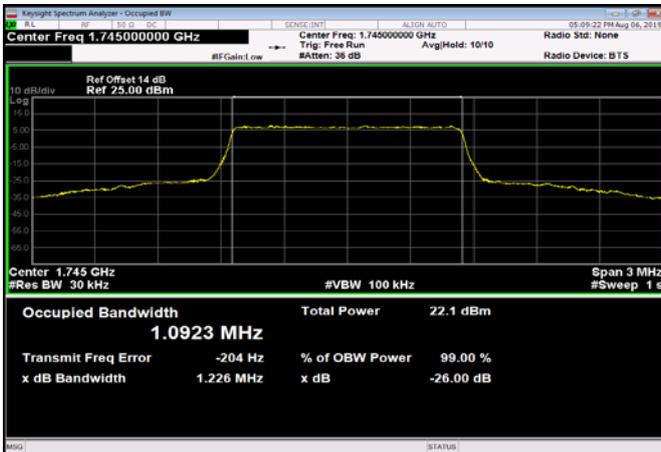


FDD12\_MidRange\_10MHz\_707.5MHz\_Q16

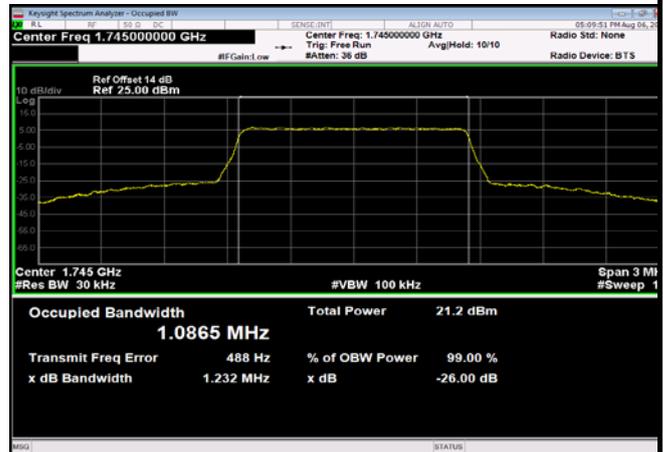




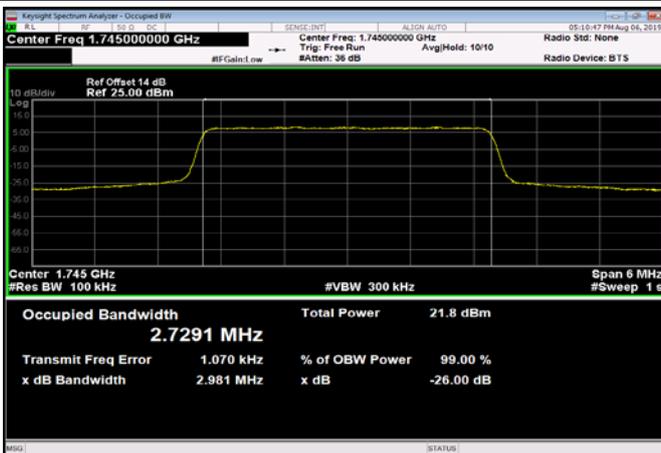
FDD66\_MidRange\_1.4MHz\_1745MHz\_QPSK



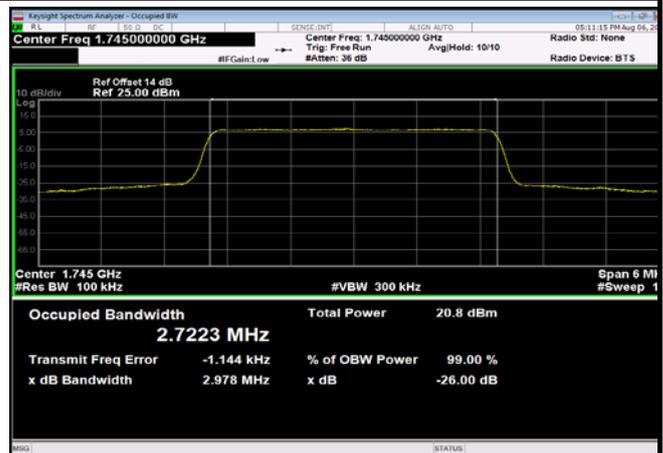
FDD66\_MidRange\_1.4MHz\_1745MHz\_Q16



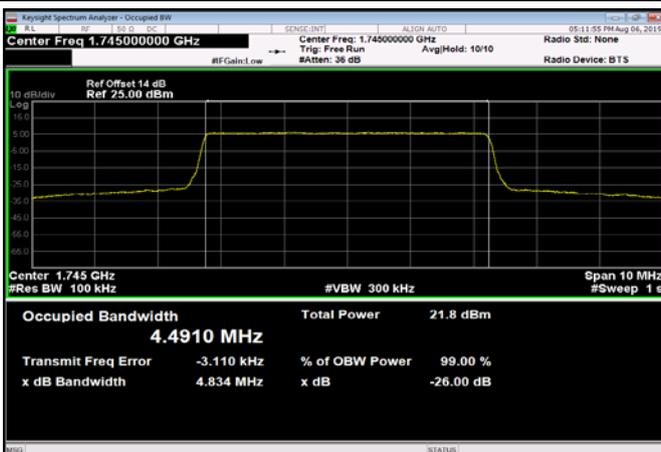
FDD66\_MidRange\_3MHz\_1745MHz\_QPSK



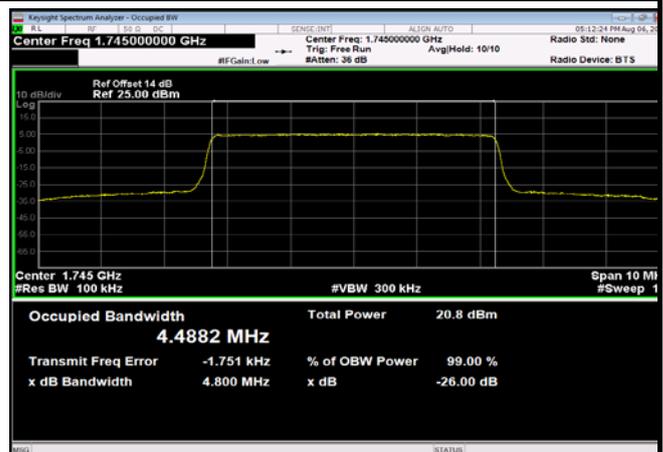
FDD66\_MidRange\_3MHz\_1745MHz\_Q16



FDD66\_MidRange\_5MHz\_1745MHz\_QPSK

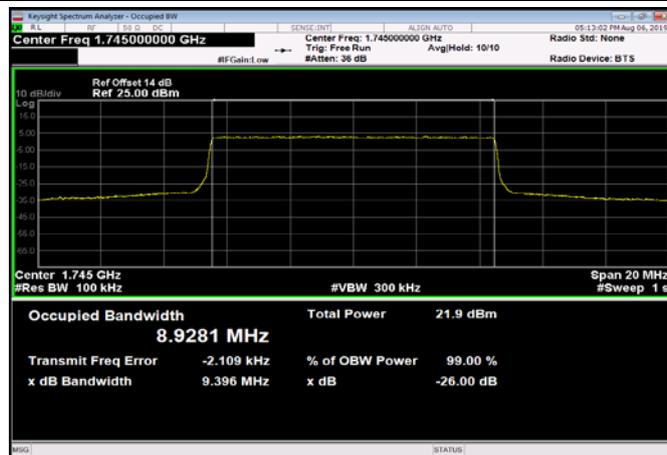


FDD66\_MidRange\_5MHz\_1745MHz\_Q16

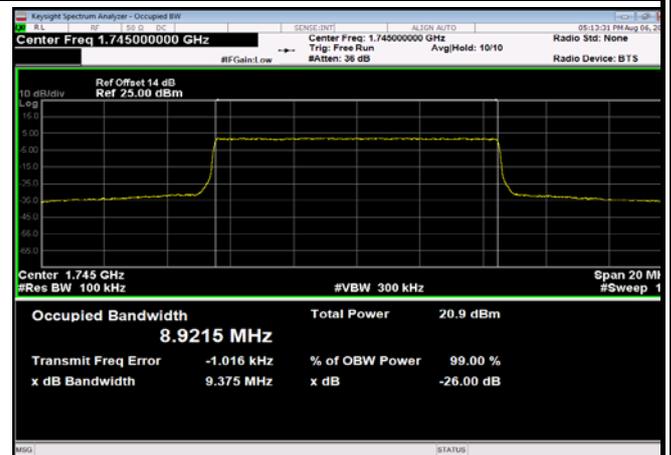




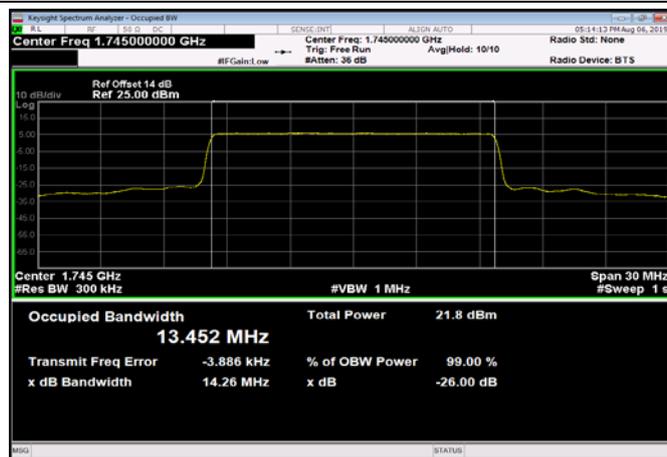
FDD66\_MidRange\_10MHz\_1745MHz\_QPSK



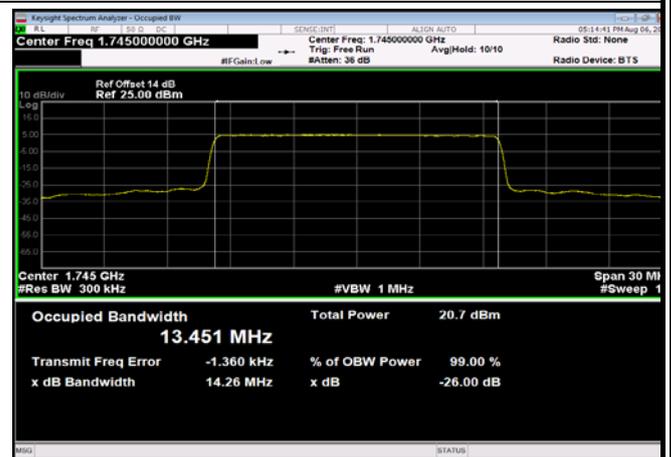
FDD66\_MidRange\_10MHz\_1745MHz\_Q16



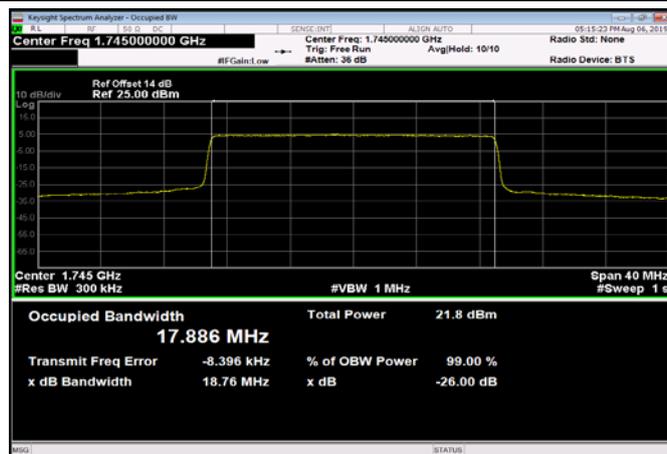
FDD66\_MidRange\_15MHz\_1745MHz\_QPSK



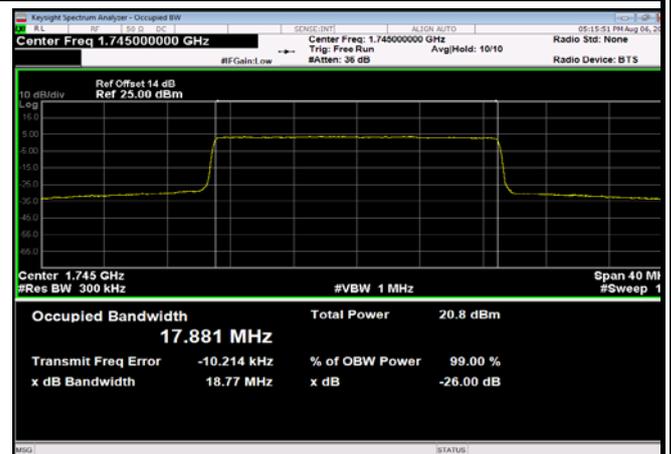
FDD66\_MidRange\_15MHz\_1745MHz\_Q16



FDD66\_MidRange\_20MHz\_1745MHz\_QPSK



FDD66\_MidRange\_20MHz\_1745MHz\_Q16





## Frequency Stability

### Test Result and Data

Frequency Stability NormalTC_NormalVol									
Temperature	Voltage	Band	BandWidth (MHz)	RbMode	Modulation	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Result
Normal	Low	FDD02	10	fullIRB	QPSK	14.076	0.007	0.10	Pass
Normal	Normal	FDD02	10	fullIRB	QPSK	13.733	0.007	0.10	Pass
Normal	High	FDD02	10	fullIRB	QPSK	13.189	0.007	0.10	Pass
50	Normal	FDD02	10	fullIRB	QPSK	15.235	0.008	0.10	Pass
40	Normal	FDD02	10	fullIRB	QPSK	13.690	0.007	0.10	Pass
30	Normal	FDD02	10	fullIRB	QPSK	12.989	0.007	0.10	Pass
20	Normal	FDD02	10	fullIRB	QPSK	13.118	0.007	0.10	Pass
10	Normal	FDD02	10	fullIRB	QPSK	14.362	0.008	0.10	Pass
0	Normal	FDD02	10	fullIRB	QPSK	11.344	0.006	0.10	Pass
-10	Normal	FDD02	10	fullIRB	QPSK	10.328	0.005	0.10	Pass
-20	Normal	FDD02	10	fullIRB	QPSK	9.999	0.005	0.10	Pass
-30	Normal	FDD02	10	fullIRB	QPSK	10.486	0.006	0.10	Pass
Normal	Low	FDD04	10	fullIRB	QPSK	8.340	0.005	0.10	Pass
Normal	Normal	FDD04	10	fullIRB	QPSK	6.437	0.004	0.10	Pass
Normal	High	FDD04	10	fullIRB	QPSK	-6.995	0.004	0.10	Pass
50	Normal	FDD04	10	fullIRB	QPSK	5.250	0.003	0.10	Pass
40	Normal	FDD04	10	fullIRB	QPSK	-7.052	0.004	0.10	Pass
30	Normal	FDD04	10	fullIRB	QPSK	8.826	0.005	0.10	Pass
20	Normal	FDD04	10	fullIRB	QPSK	8.740	0.005	0.10	Pass
10	Normal	FDD04	10	fullIRB	QPSK	6.380	0.004	0.10	Pass
0	Normal	FDD04	10	fullIRB	QPSK	-7.138	0.004	0.10	Pass
-10	Normal	FDD04	10	fullIRB	QPSK	7.281	0.004	0.10	Pass
-20	Normal	FDD04	10	fullIRB	QPSK	7.539	0.004	0.10	Pass
-30	Normal	FDD04	10	fullIRB	QPSK	7.095	0.004	0.10	Pass
Normal	Low	FDD05	10	fullIRB	QPSK	-8.283	0.010	0.10	Pass
Normal	Normal	FDD05	10	fullIRB	QPSK	-7.825	0.009	0.10	Pass
Normal	High	FDD05	10	fullIRB	QPSK	-7.396	0.009	0.10	Pass



50	Normal	FDD05	10	fullRB	QPSK	-6.495	0.008	0.10	Pass
40	Normal	FDD05	10	fullRB	QPSK	-8.025	0.010	0.10	Pass
30	Normal	FDD05	10	fullRB	QPSK	-7.839	0.009	0.10	Pass
20	Normal	FDD05	10	fullRB	QPSK	-8.755	0.010	0.10	Pass
10	Normal	FDD05	10	fullRB	QPSK	-6.552	0.008	0.10	Pass
0	Normal	FDD05	10	fullRB	QPSK	-7.753	0.009	0.10	Pass
-10	Normal	FDD05	10	fullRB	QPSK	-7.939	0.009	0.10	Pass
-20	Normal	FDD05	10	fullRB	QPSK	-8.669	0.010	0.10	Pass
-30	Normal	FDD05	10	fullRB	QPSK	-7.238	0.009	0.10	Pass
Normal	Low	FDD07	10	fullRB	QPSK	-11.172	0.004	0.10	Pass
Normal	Normal	FDD07	10	fullRB	QPSK	-13.103	0.005	0.10	Pass
Normal	High	FDD07	10	fullRB	QPSK	-12.431	0.005	0.10	Pass
50	Normal	FDD07	10	fullRB	QPSK	11.415	0.005	0.10	Pass
40	Normal	FDD07	10	fullRB	QPSK	-12.031	0.005	0.10	Pass
30	Normal	FDD07	10	fullRB	QPSK	-11.430	0.005	0.10	Pass
20	Normal	FDD07	10	fullRB	QPSK	-11.401	0.004	0.10	Pass
10	Normal	FDD07	10	fullRB	QPSK	-13.905	0.005	0.10	Pass
0	Normal	FDD07	10	fullRB	QPSK	11.287	0.004	0.10	Pass
-10	Normal	FDD07	10	fullRB	QPSK	-8.898	0.004	0.10	Pass
-20	Normal	FDD07	10	fullRB	QPSK	-10.471	0.004	0.10	Pass
-30	Normal	FDD07	10	fullRB	QPSK	-13.604	0.005	0.10	Pass
Normal	Low	FDD12	10	fullRB	QPSK	-9.670	0.014	0.10	Pass
Normal	Normal	FDD12	10	fullRB	QPSK	-9.327	0.013	0.10	Pass
Normal	High	FDD12	10	fullRB	QPSK	-7.095	0.010	0.10	Pass
50	Normal	FDD12	10	fullRB	QPSK	-9.198	0.013	0.10	Pass
40	Normal	FDD12	10	fullRB	QPSK	-6.280	0.009	0.10	Pass
30	Normal	FDD12	10	fullRB	QPSK	-6.638	0.009	0.10	Pass
20	Normal	FDD12	10	fullRB	QPSK	-5.107	0.007	0.10	Pass
10	Normal	FDD12	10	fullRB	QPSK	-7.796	0.011	0.10	Pass
0	Normal	FDD12	10	fullRB	QPSK	-8.011	0.011	0.10	Pass
-10	Normal	FDD12	10	fullRB	QPSK	-5.565	0.008	0.10	Pass
-20	Normal	FDD12	10	fullRB	QPSK	-8.469	0.012	0.10	Pass



-30	Normal	FDD12	10	fullIRB	QPSK	-7.153	0.010	0.10	Pass
Normal	Low	FDD66	10	fullIRB	QPSK	5.836	0.003	0.10	Pass
Normal	Normal	FDD66	10	fullIRB	QPSK	3.047	0.002	0.10	Pass
Normal	High	FDD66	10	fullIRB	QPSK	7.625	0.004	0.10	Pass
50	Normal	FDD66	10	fullIRB	QPSK	5.808	0.003	0.10	Pass
40	Normal	FDD66	10	fullIRB	QPSK	-7.496	0.004	0.10	Pass
30	Normal	FDD66	10	fullIRB	QPSK	-4.249	0.002	0.10	Pass
20	Normal	FDD66	10	fullIRB	QPSK	-4.063	0.002	0.10	Pass
10	Normal	FDD66	10	fullIRB	QPSK	6.595	0.004	0.10	Pass
0	Normal	FDD66	10	fullIRB	QPSK	7.825	0.004	0.10	Pass
-10	Normal	FDD66	10	fullIRB	QPSK	6.094	0.003	0.10	Pass
-20	Normal	FDD66	10	fullIRB	QPSK	4.535	0.003	0.10	Pass
-30	Normal	FDD66	10	fullIRB	QPSK	-7.954	0.005	0.10	Pass

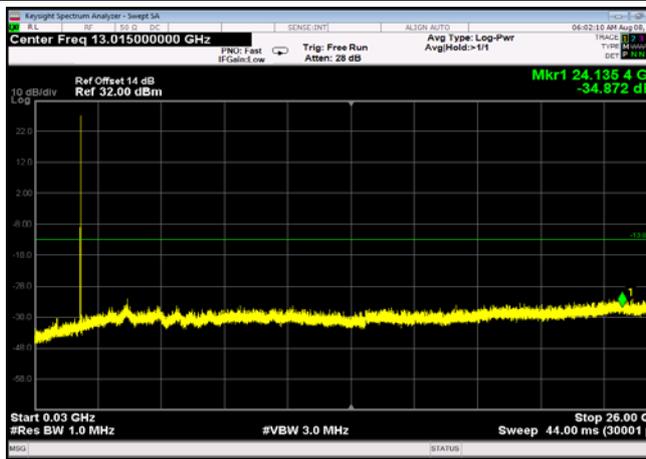
Note: Normal=3.85V, Low=3.5V, High=4.2V



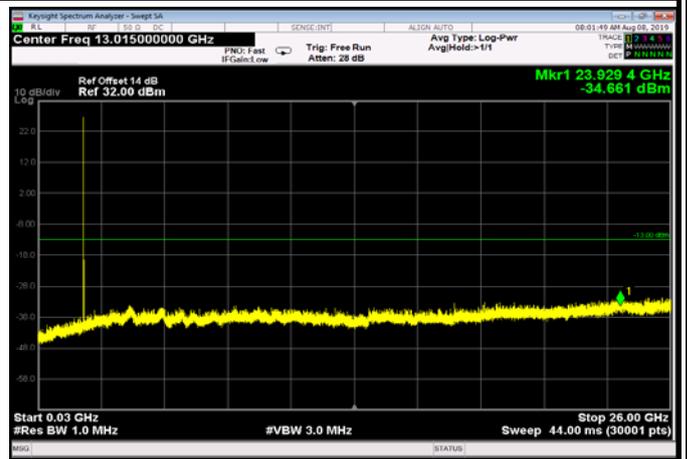
# Conducted Out of Band Emissions

## Test Result and Data

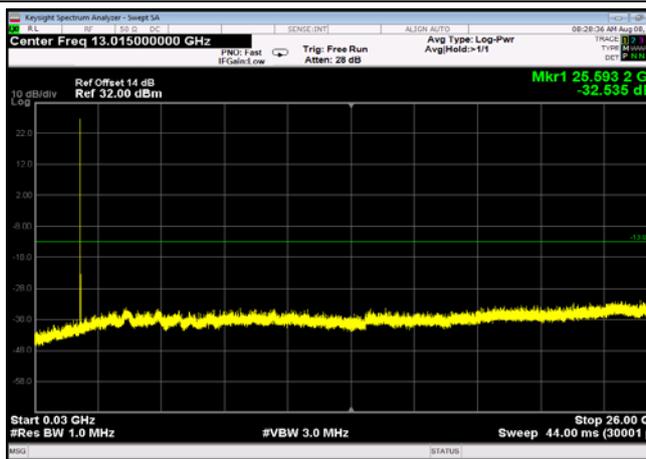
FDD02\_HighRange\_1.4MHz\_30MHz~26GHz



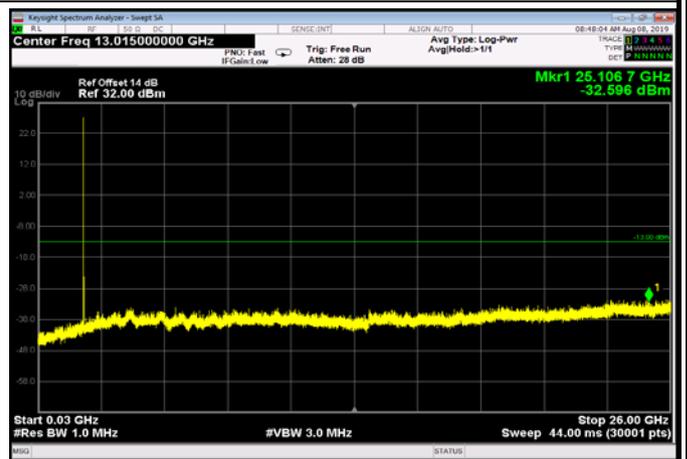
FDD02\_HighRange\_10MHz\_30MHz~26GHz



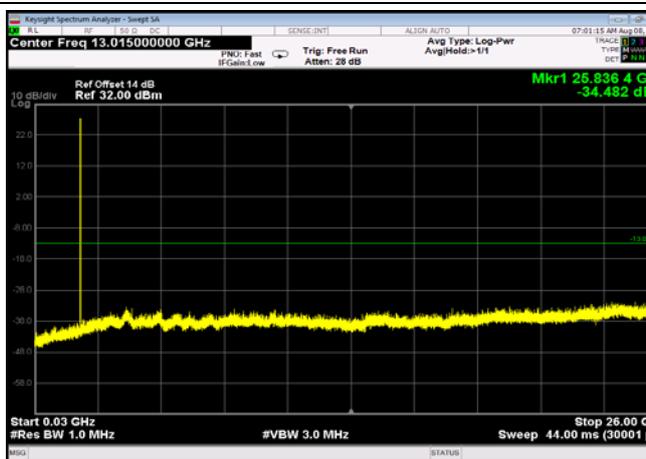
FDD02\_HighRange\_15MHz\_30MHz~26GHz



FDD02\_HighRange\_20MHz\_30MHz~26GHz



FDD02\_HighRange\_3MHz\_30MHz~26GHz



FDD02\_HighRange\_5MHz\_30MHz~26GHz

