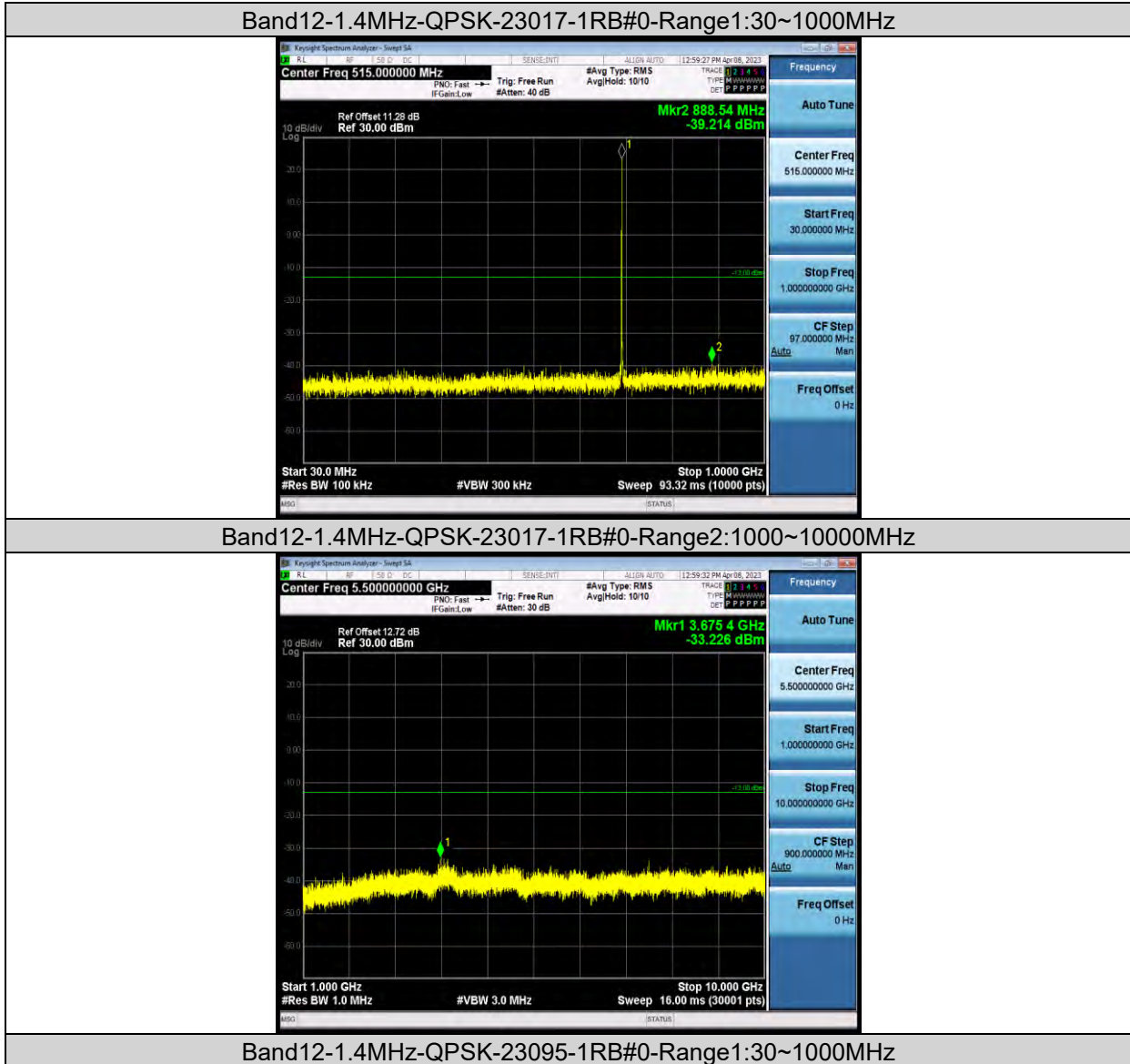


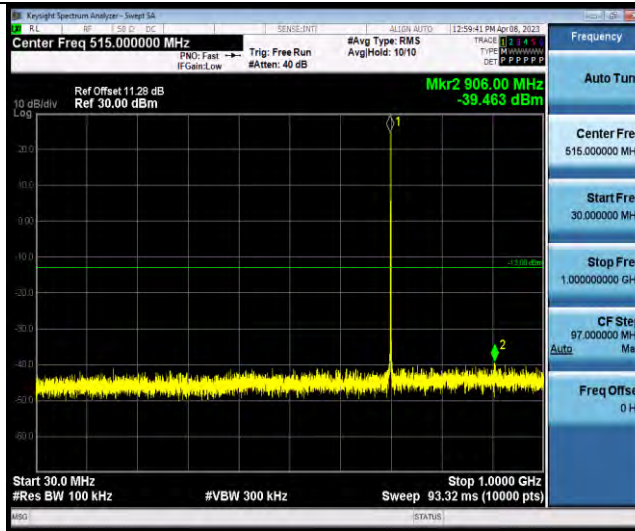
### Test Graphs



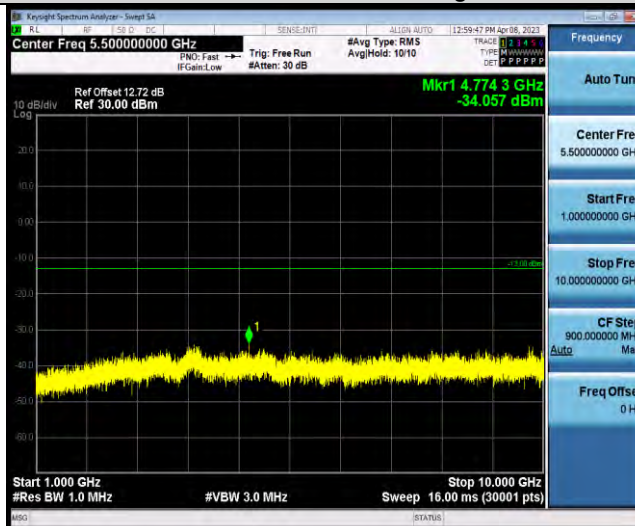


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Test Report No.: W7L-P23030025RF06



Band12-1.4MHz-QPSK-23095-1RB#0-Range2:1000~1000MHz



Band12-1.4MHz-QPSK-23173-1RB#0-Range1:30~1000MHz

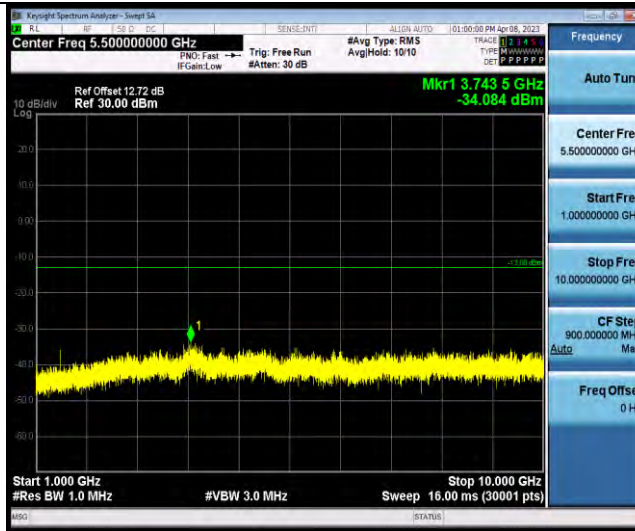


Band12-1.4MHz-QPSK-23173-1RB#0-Range2:1000~1000MHz



BUREAU VERITAS

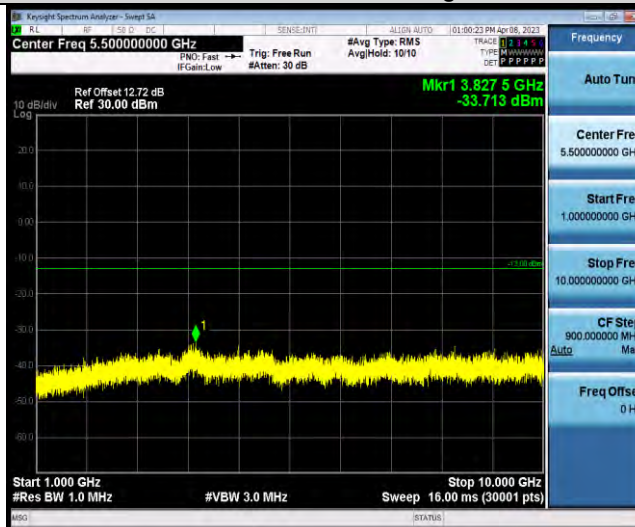
Test Report No.: W7L-P23030025RF06



Band12-3MHz-QPSK-23025-1RB#0-Range1:30~1000MHz



Band12-3MHz-QPSK-23025-1RB#0-Range2:1000~10000MHz

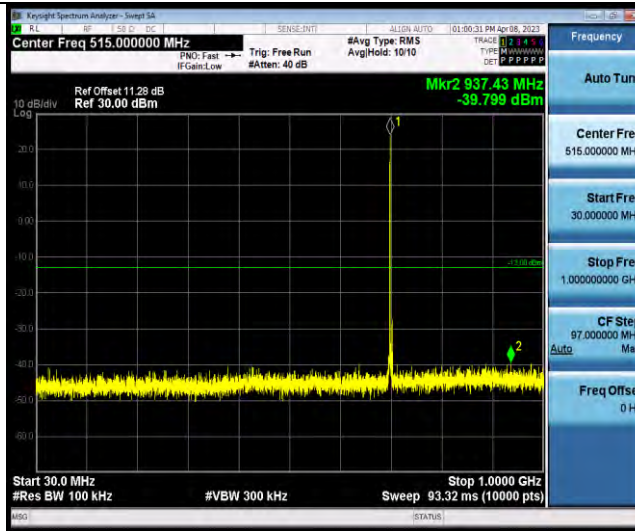


Band12-3MHz-QPSK-23095-1RB#0-Range1:30~1000MHz

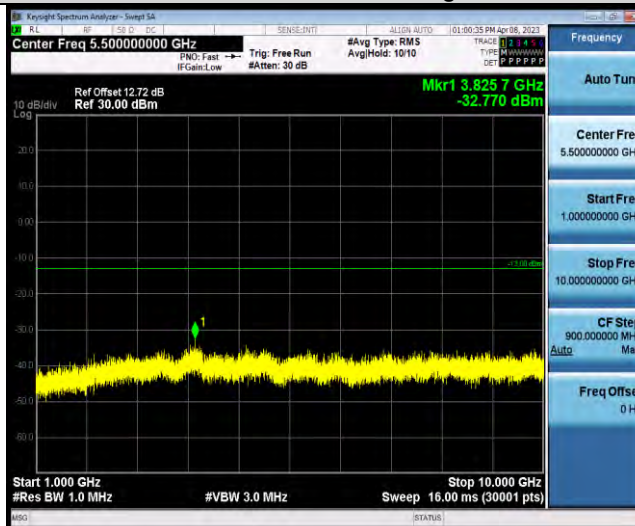


BUREAU VERITAS

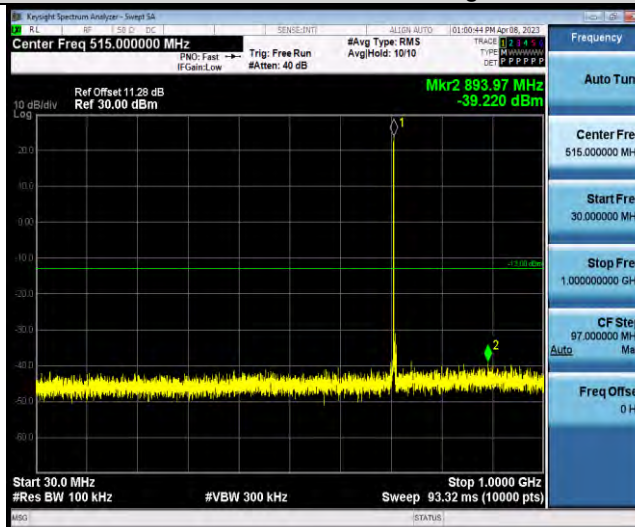
Test Report No.: W7L-P23030025RF06



Band12-3MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Band12-3MHz-QPSK-23165-1RB#0-Range1:30~1000MHz

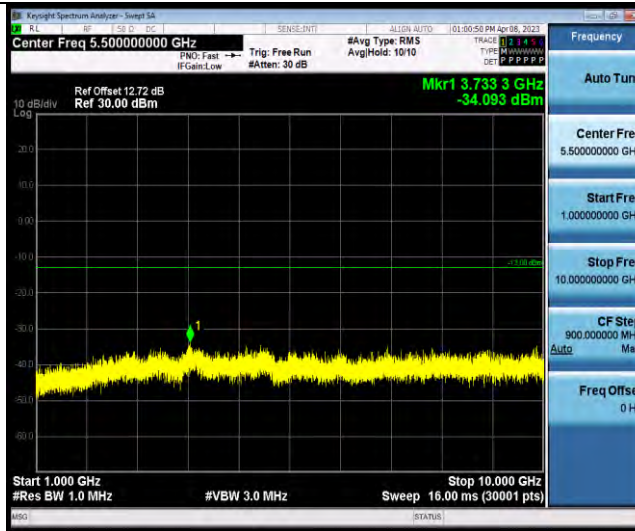


Band12-3MHz-QPSK-23165-1RB#0-Range2:1000~10000MHz



BUREAU VERITAS

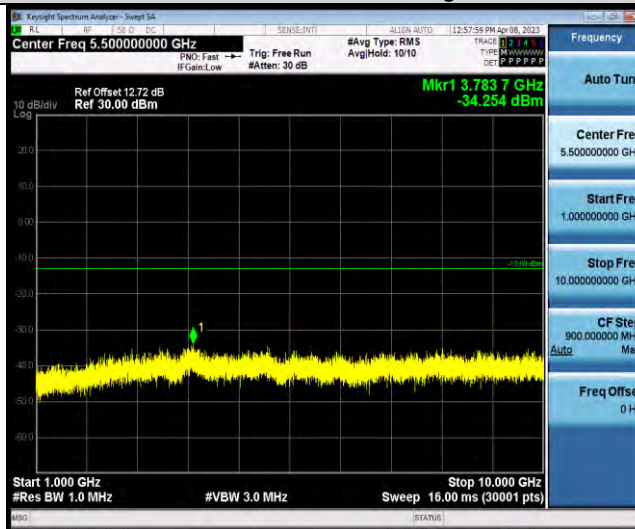
Test Report No.: W7L-P23030025RF06



Band12-5MHz-QPSK-23035-1RB#0-Range1:30~1000MHz



Band12-5MHz-QPSK-23035-1RB#0-Range2:1000~10000MHz

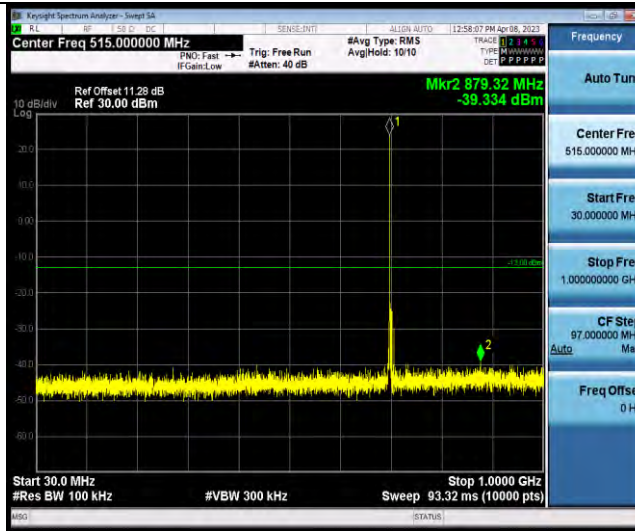


Band12-5MHz-QPSK-23095-1RB#0-Range1:30~1000MHz

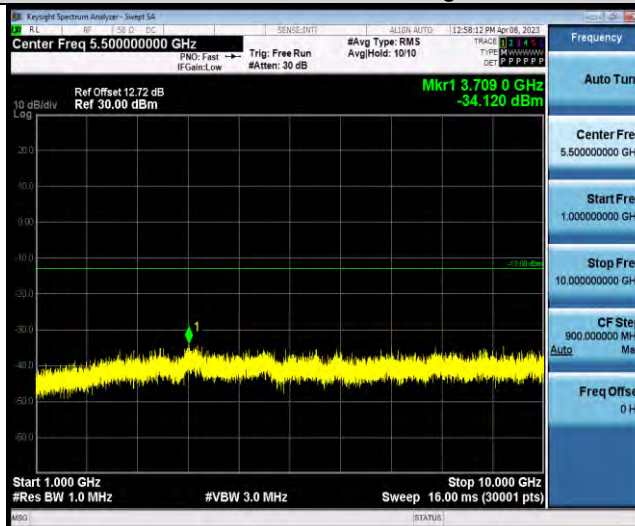


BUREAU VERITAS

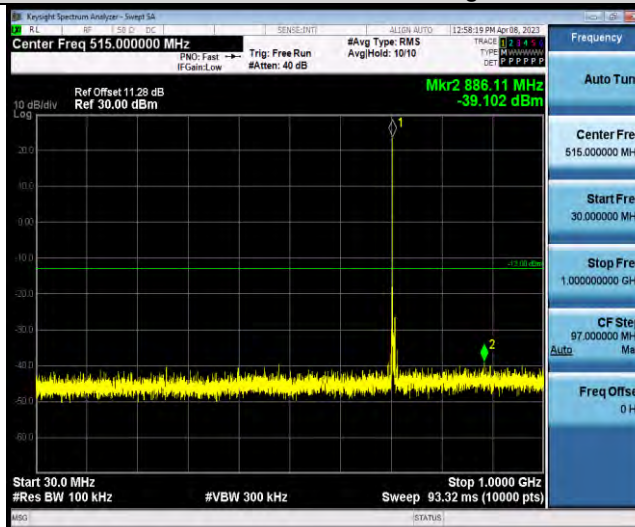
Test Report No.: W7L-P23030025RF06



Band12-5MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Band12-5MHz-QPSK-23155-1RB#0-Range1:30~1000MHz

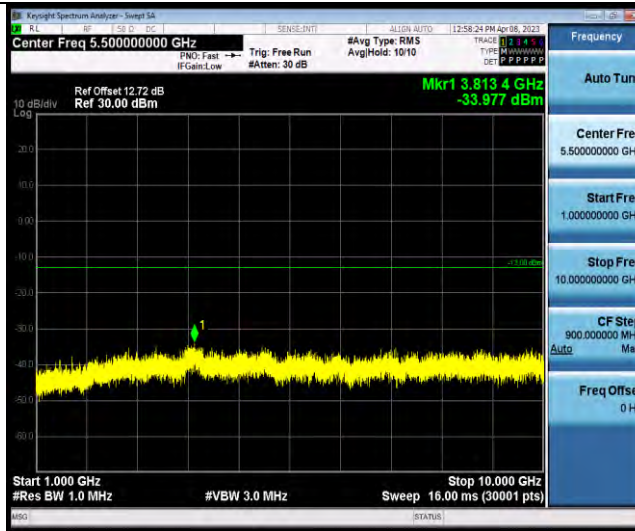


Band12-5MHz-QPSK-23155-1RB#0-Range2:1000~10000MHz

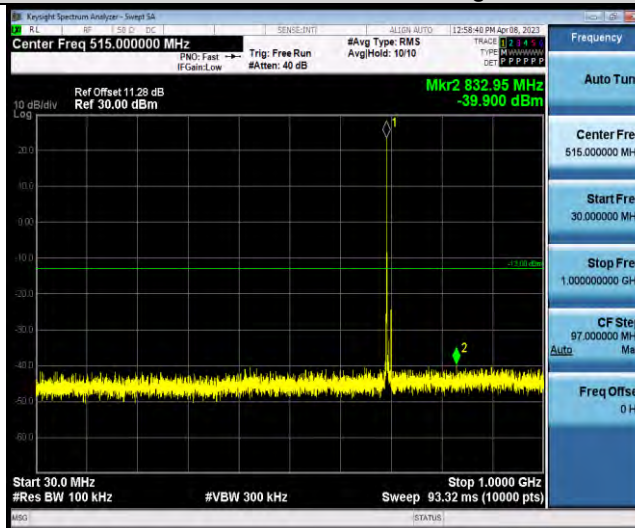


BUREAU VERITAS

Test Report No.: W7L-P23030025RF06



Band12-10MHz-QPSK-23060-1RB#0-Range1:30~1000MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz

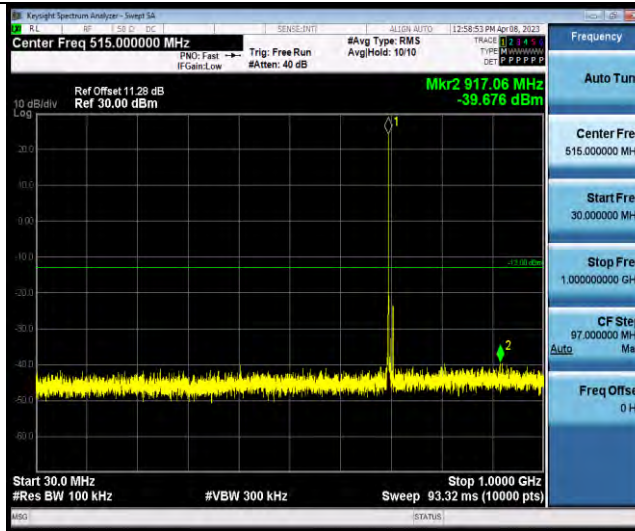


Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz

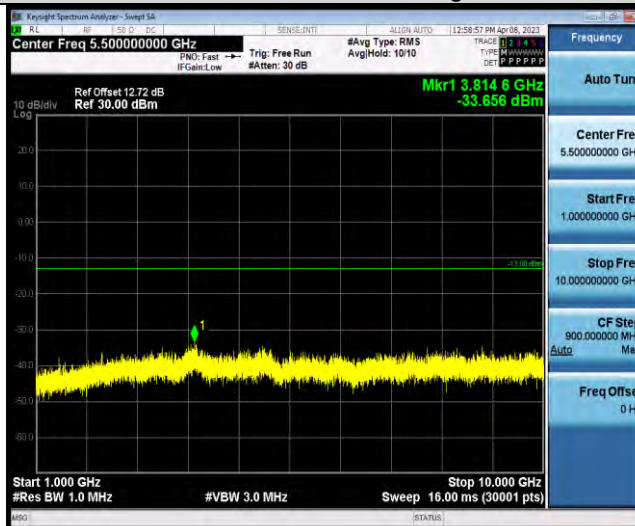


BUREAU VERITAS

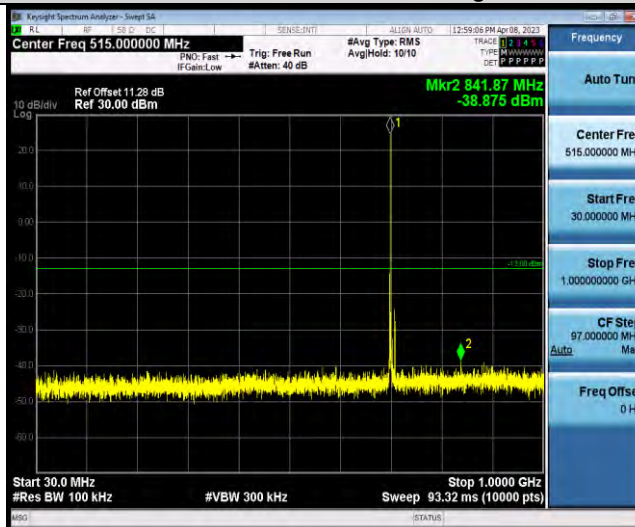
Test Report No.: W7L-P23030025RF06



Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



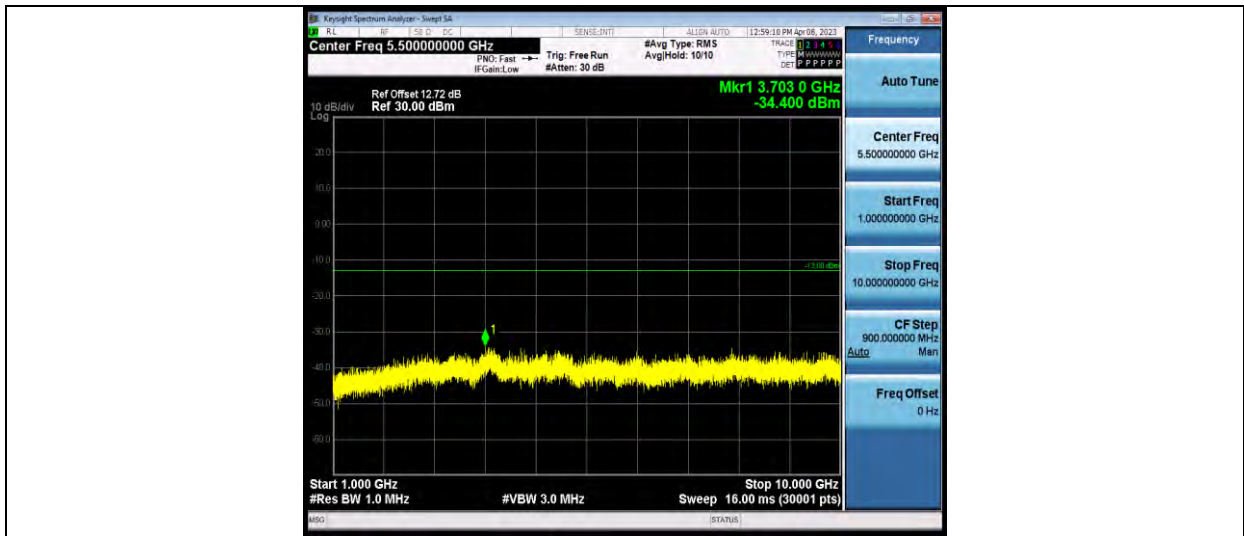
Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz





BUREAU VERITAS

Test Report No.: W7L-P23030025RF06





Test Report No.: W7L-P23030025RF06

## FREQUENCY STABILITY

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 2	10MHz	QPSK	23060	50RB#0	LV	NT	2.63	0.003736	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	NT	3.69	0.005241	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	HV	NT	2.63	0.003736	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	LV	NT	1.47	0.002078	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	NT	-1.53	-0.002163	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	HV	NT	-2.06	-0.002912	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	LV	NT	-1.53	-0.002152	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	NT	-1.79	-0.002518	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	HV	NT	-1.80	-0.002532	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 2	10MHz	QPSK	23060	50RB#0	NV	-30	1.57	0.002230	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	-20	-1.17	-0.001662	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	-10	-2.55	-0.003622	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	0	3.00	0.004261	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	10	-1.97	-0.002798	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	20	-2.03	-0.002884	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	30	1.97	0.002798	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	40	0.87	0.001236	±2.5	PASS
Band1 2	10MHz	QPSK	23060	50RB#0	NV	50	1.57	0.002230	±2.5	PASS
Band1	10MHz	QPSK	23095	50RB#0	NV	-30	-1.33	-0.001880	±2.5	PASS



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**Test Report No.: W7L-P23030025RF06**

2										
Band1 2	10MHz	QPSK	23095	50RB#0	NV	-20	2.10	0.002968	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	-10	2.36	0.003336	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	0	0.90	0.001272	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	10	-2.27	-0.003208	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	20	1.80	0.002544	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	30	1.72	0.002431	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	40	-1.92	-0.002714	±2.5	PASS
Band1 2	10MHz	QPSK	23095	50RB#0	NV	50	-2.30	-0.003251	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	-30	-1.50	-0.002110	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	-20	-1.70	-0.002391	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	-10	-1.56	-0.002194	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	0	-2.39	-0.003361	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	10	0.94	0.001322	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	20	-2.99	-0.004205	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	30	-3.38	-0.004754	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	40	-1.83	-0.002574	±2.5	PASS
Band1 2	10MHz	QPSK	23130	50RB#0	NV	50	-1.19	-0.001674	±2.5	PASS

Note: LV = Low voltage(3.4V); NV = Normal voltage(4V); HV = High voltage(4.35V);NT = Normal temperature (25°C).

**MAX Deviation calculation**

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
fL- MAX(Δ f)	699.526850	≥699	PASS
fH+ MAX(Δ f)	715.47815	≤716	

Note : 1. |MAX(Δ f)| = Max Deviation

2. fL = Occ low channel fL(-13dBm/MHz)

3. fH = Occ High channel fH(-13dBm/MHz)

4. |MAX(Δ f)| =3.69Hz.



Test Report No.: W7L-P23030025RF06

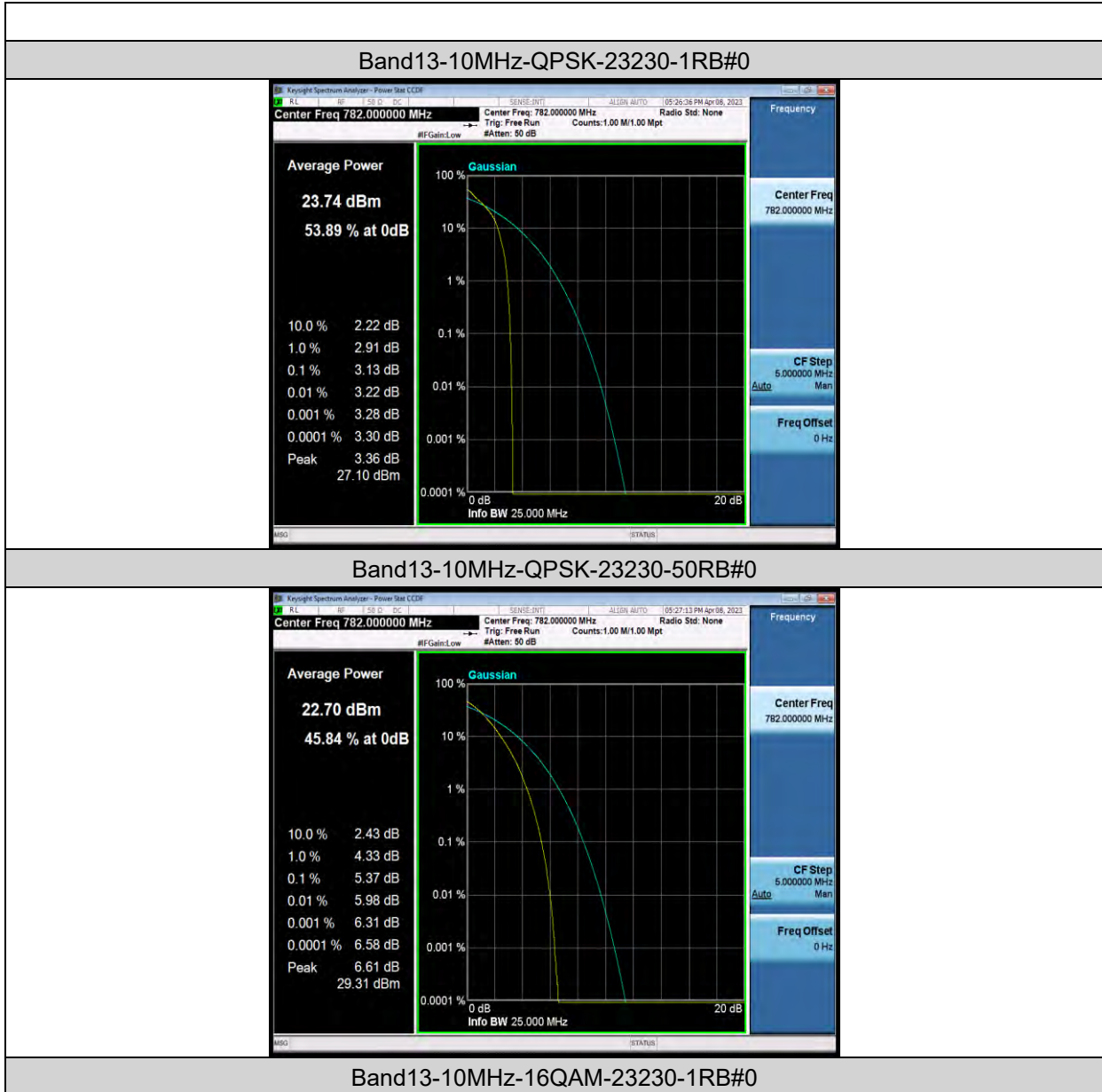
## LTE BAND13

### PEAK-TO-AVERAGE RATIO(CCDF)

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	1RB#0	3.13	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.37	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	3.46	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.11	13	PASS
Band13	10MHz	64QAM	23230	1RB#0	4.50	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.46	13	PASS

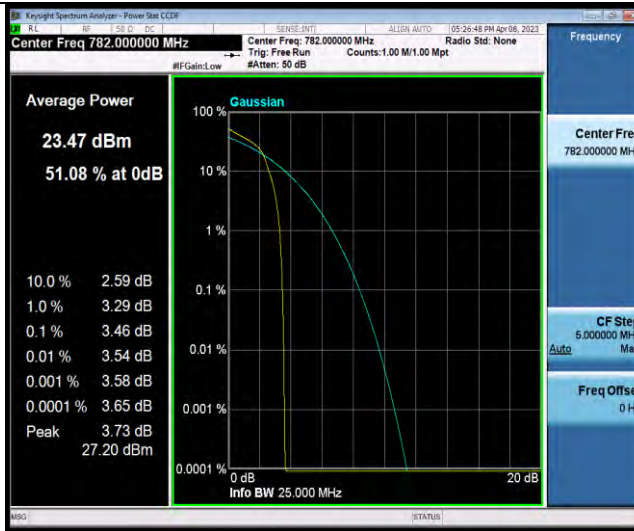
### Test Graphs



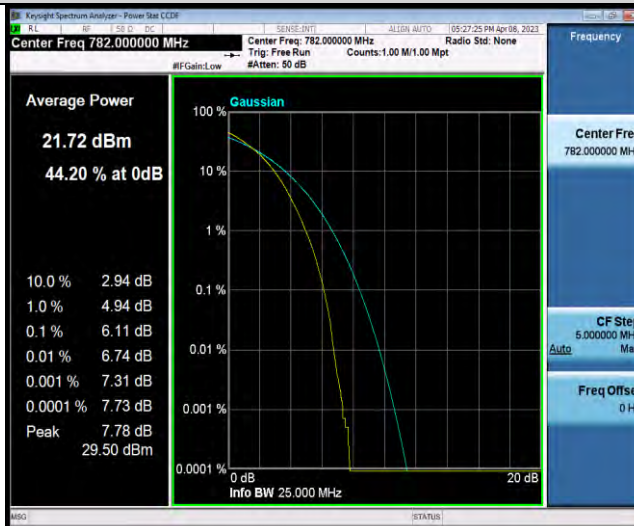


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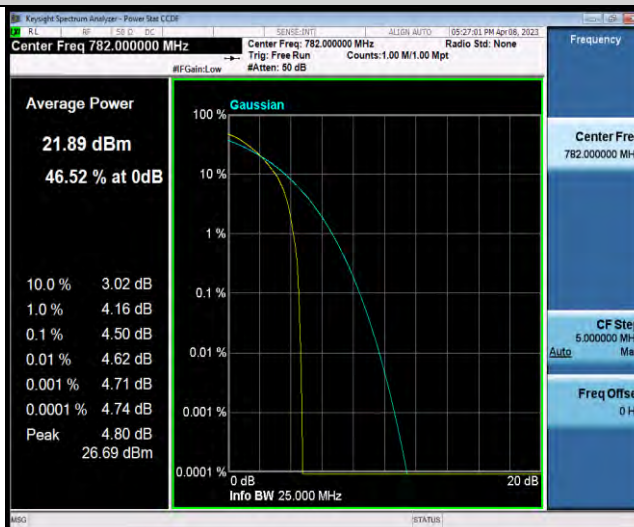
### Test Report No.: W7L-P23030025RF06



Band13-10MHz-16QAM-23230-50RB#0



Band13-10MHz-64QAM-23230-1RB#0

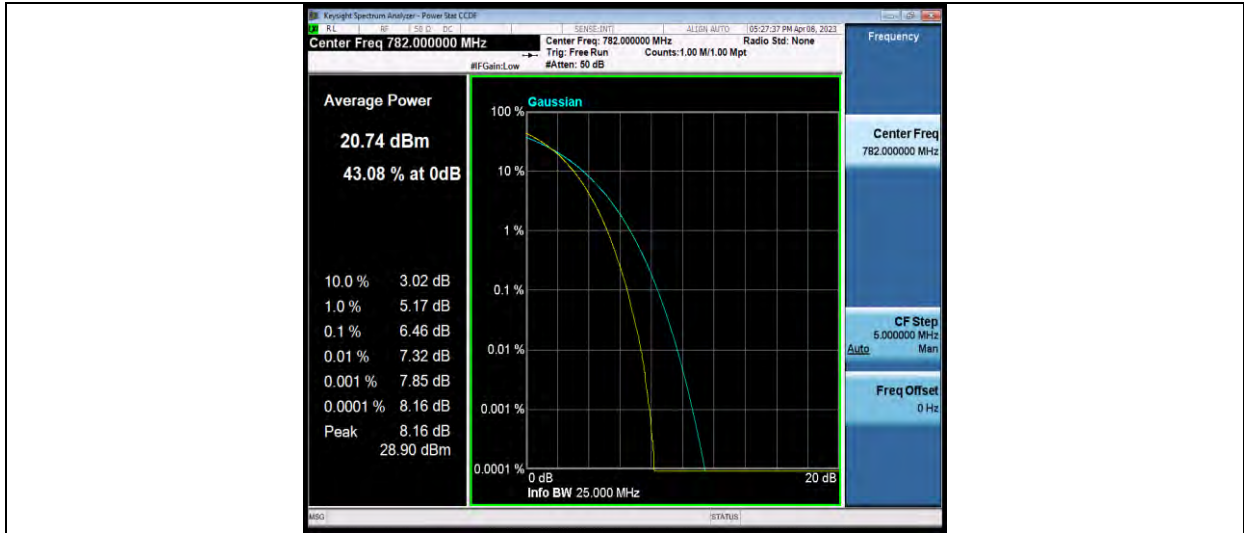


Band13-10MHz-64QAM-23230-50RB#0



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Test Report No.: W7L-P23030025RF06





Test Report No.: W7L-P23030025RF06

## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4760	4.821	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4998	4.857	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4842	4.818	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4827	4.832	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5057	4.854	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4850	4.793	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.4752	4.818	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.4991	4.892	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.4846	4.832	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9433	9.526	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9446	9.544	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.9255	9.492	PASS





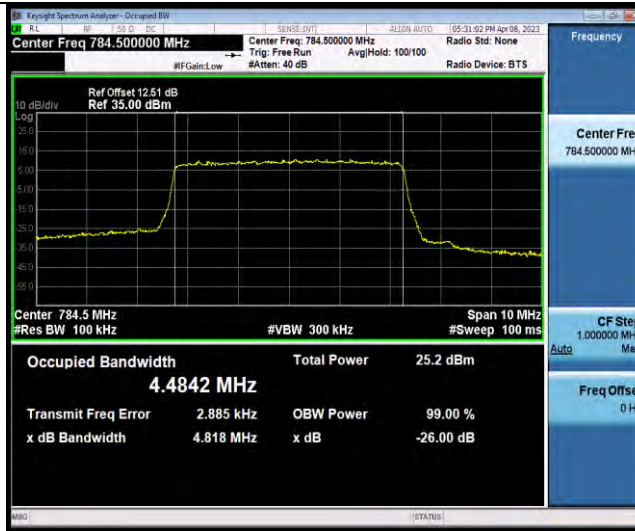
### Test Graphs





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Test Report No.: W7L-P23030025RF06



Band13-5MHz-16QAM-23205-25RB#0



Band13-5MHz-16QAM-23230-25RB#0

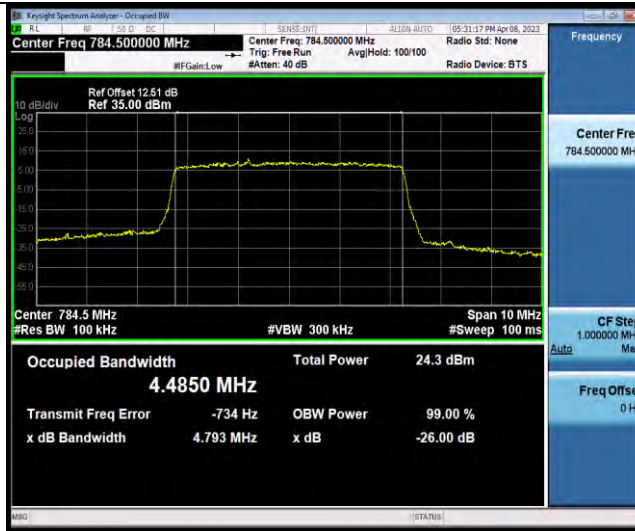


Band13-5MHz-16QAM-23255-25RB#0



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Test Report No.: W7L-P23030025RF06



Band13-5MHz-64QAM-23205-25RB#0



Band13-5MHz-64QAM-23230-25RB#0

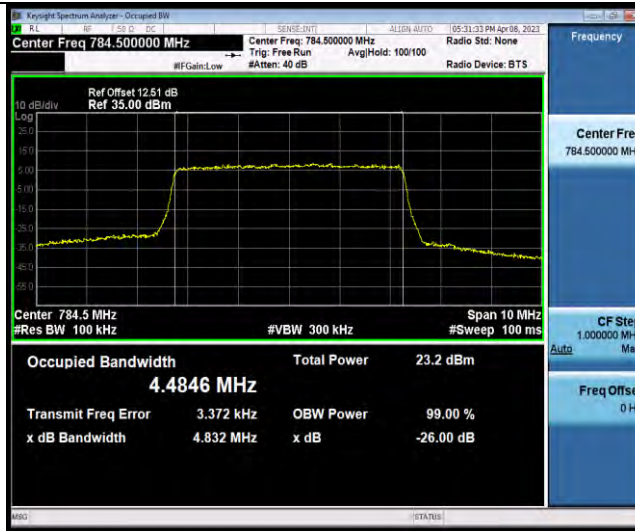


Band13-5MHz-64QAM-23255-25RB#0



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### Test Report No.: W7L-P23030025RF06



Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



Band13-10MHz-64QAM-23230-50RB#0



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Test Report No.: W7L-P23030025RF06





Test Report No.: W7L-P23030025RF06

## BAND EDGE

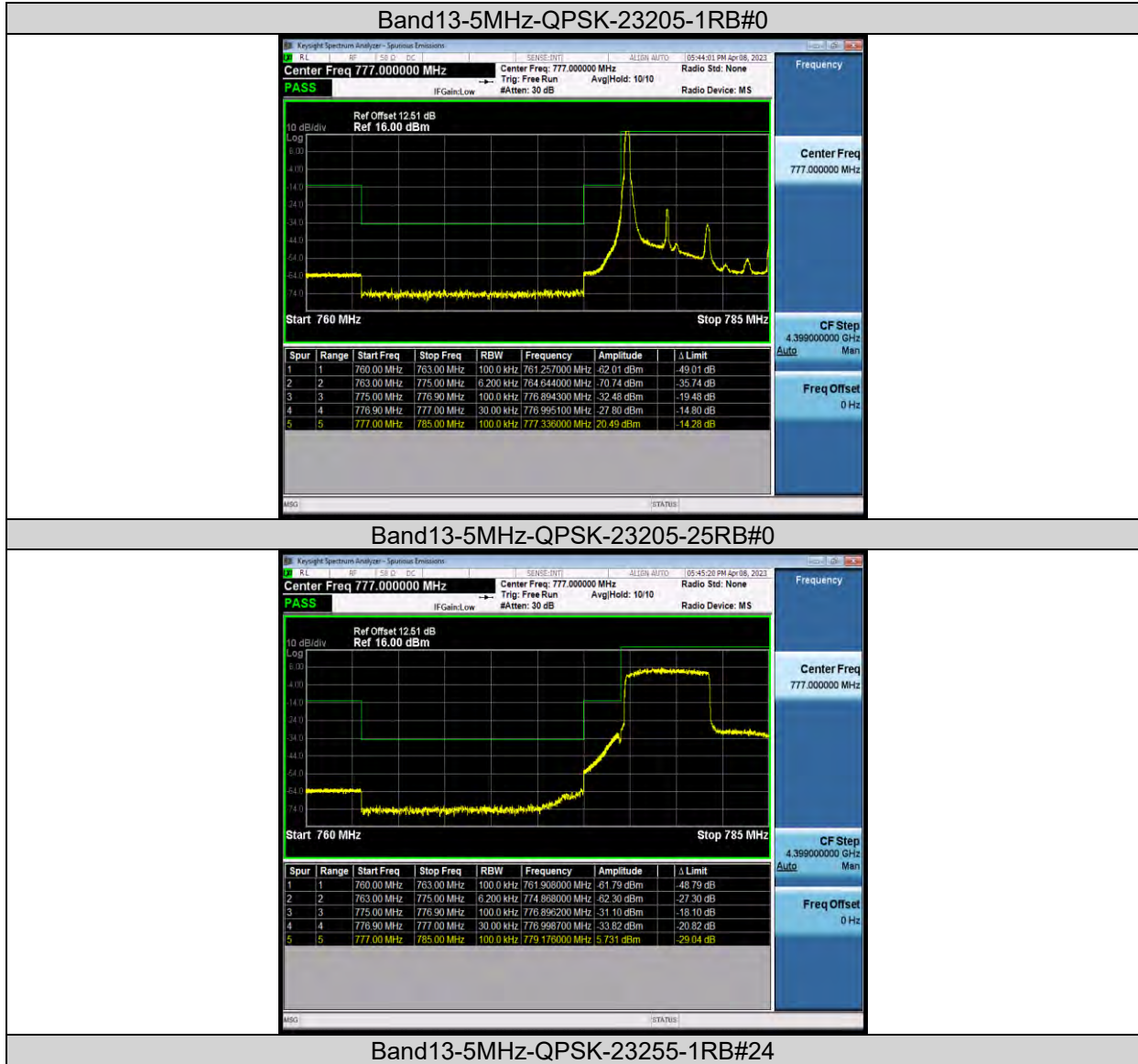
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-62.01,-70.74,-32.48,-27.80	PASS
Band13	5MHz	QPSK	23205	25RB#0	-61.79,-62.30,-31.10,-33.82	PASS
Band13	5MHz	QPSK	23255	1RB#24	-30.40,-38.35,-61.39,-62.12	PASS
Band13	5MHz	QPSK	23255	25RB#0	-35.91,-35.41,-58.83,-62.42	PASS
Band13	5MHz	16QAM	23205	1RB#0	-61.98,-70.86,-36.30,-30.65	PASS
Band13	5MHz	16QAM	23205	25RB#0	-62.23,-62.34,-32.41,-35.82	PASS
Band13	5MHz	16QAM	23255	1RB#24	-31.26,-39.56,-62.23,-62.28	PASS
Band13	5MHz	16QAM	23255	25RB#0	-37.07,-35.51,-60.86,-62.07	PASS
Band13	5MHz	64QAM	23205	1RB#0	-62.03,-71.63,-35.31,-31.39	PASS
Band13	5MHz	64QAM	23205	25RB#0	-62.20,-62.73,-34.17,-37.50	PASS
Band13	5MHz	64QAM	23255	1RB#24	-32.62,-40.98,-63.72,-61.84	PASS
Band13	5MHz	64QAM	23255	25RB#0	-37.52,-36.38,-60.97,-62.06	PASS
Band13	10MHz	QPSK	23230	1RB#0	-62.28,-71.19,-44.89,-41.31	PASS
Band13	10MHz	QPSK	23230	1RB#49	-62.01,-71.44,-59.94,-63.56	PASS
Band13	10MHz	QPSK	23230	50RB#0	-62.45,-67.00,-36.63,-38.36	PASS
Band13	10MHz	16QAM	23230	1RB#0	-62.20,-71.40,-45.37,-40.88	PASS
Band13	10MHz	16QAM	23230	1RB#49	-62.19,-71.21,-61.17,-63.34	PASS
Band13	10MHz	16QAM	23230	50RB#0	-62.10,-69.02,-38.42,-40.57	PASS
Band13	10MHz	64QAM	23230	1RB#0	-62.32,-71.26,-41.04,-38.81	PASS
Band13	10MHz	64QAM	23230	1RB#49	-62.36,-71.70,-61.71,-64.54	PASS
Band13	10MHz	64QAM	23230	50RB#0	-62.34,-70.29,-41.80,-42.89	PASS



Test Report No.: W7L-P23030025RF06

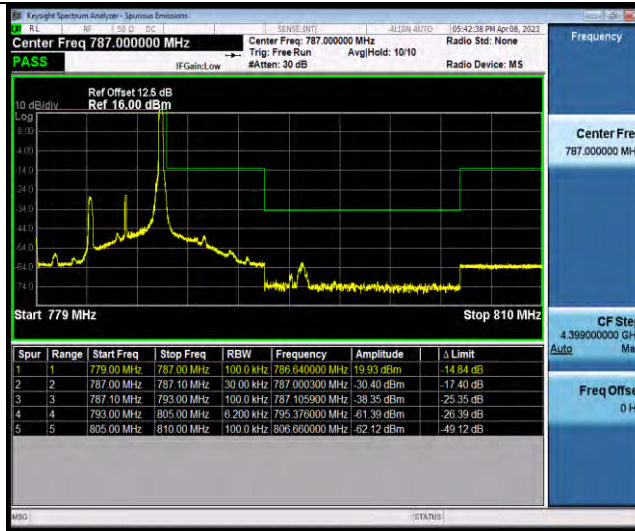
### Test Graphs





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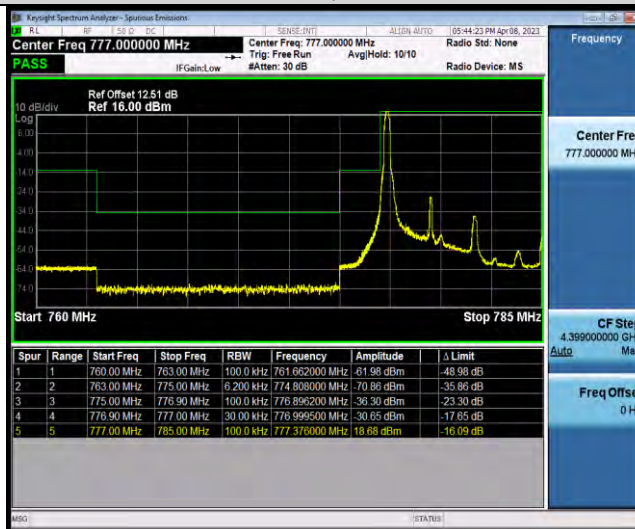
Test Report No.: W7L-P23030025RF06



Band13-5MHz-QPSK-23255-25RB#0



Band13-5MHz-16QAM-23205-1RB#0



Band13-5MHz-16QAM-23205-25RB#0





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### Test Report No.: W7L-P23030025RF06



Band13-5MHz-16QAM-23255-1RB#24



Band13-5MHz-16QAM-23255-25RB#0

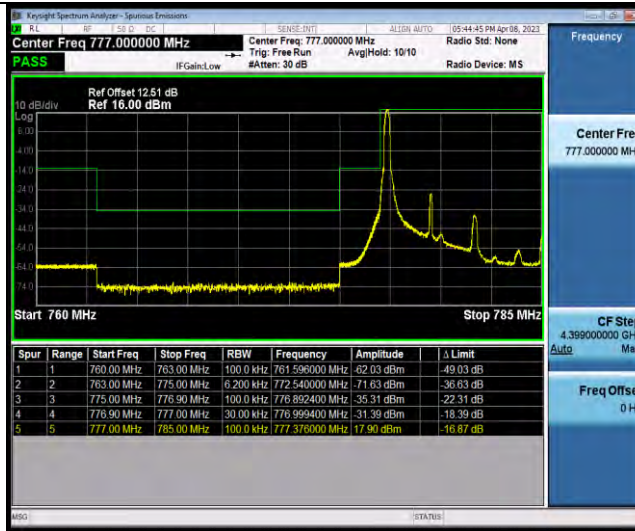


Band13-5MHz-64QAM-23205-1RB#0

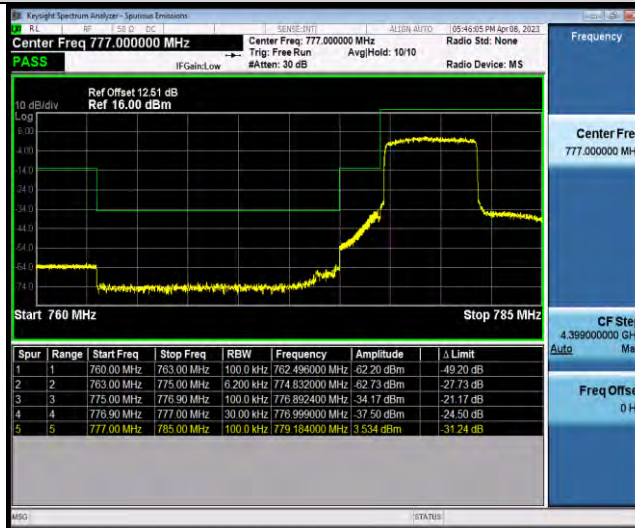


BUREAU VERITAS

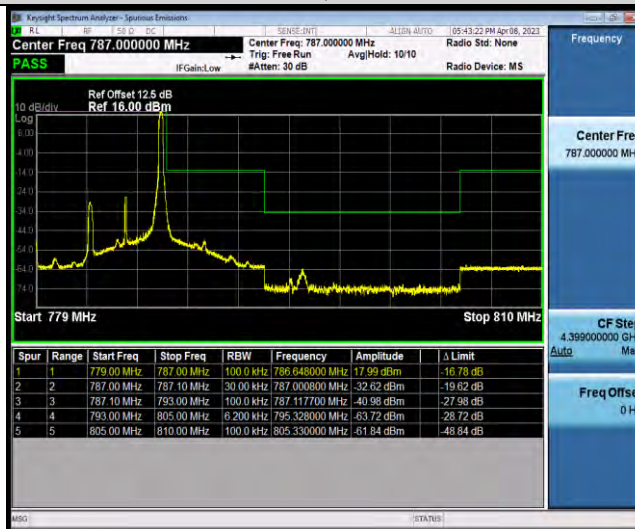
Test Report No.: W7L-P23030025RF06



Band13-5MHz-64QAM-23205-25RB#0



Band13-5MHz-64QAM-23255-1RB#24



Band13-5MHz-64QAM-23255-25RB#0



BUREAU VERITAS

# Test Report No.: W7L-P23030025RF06



Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-1RB#49



Band13-10MHz-QPSK-23230-50RB#0



BUREAU VERITAS

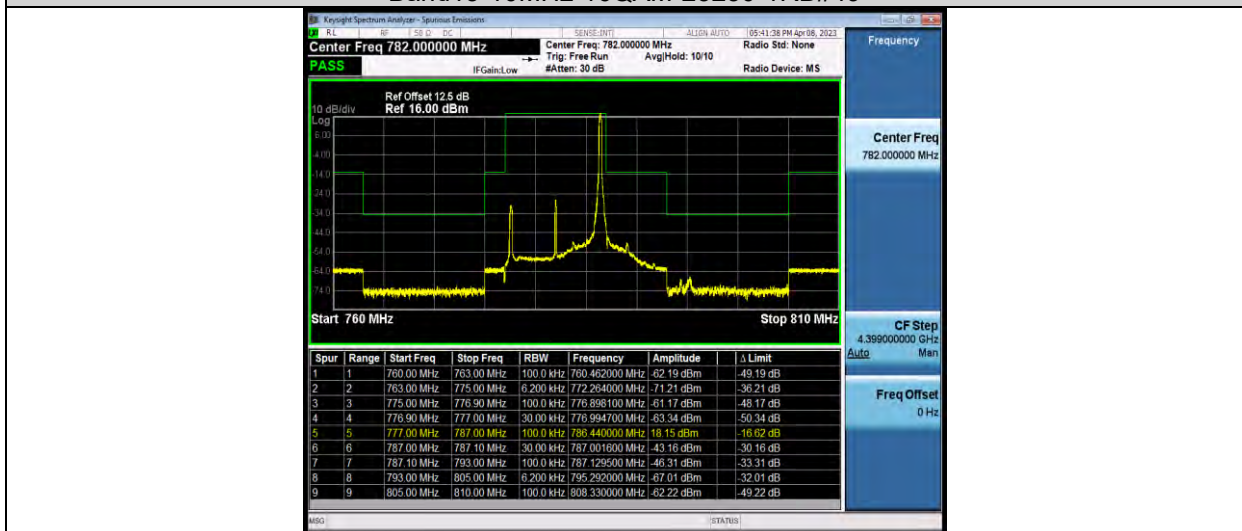
# Test Report No.: W7L-P23030025RF06



Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-1RB#49



Band13-10MHz-16QAM-23230-50RB#0



BUREAU VERITAS

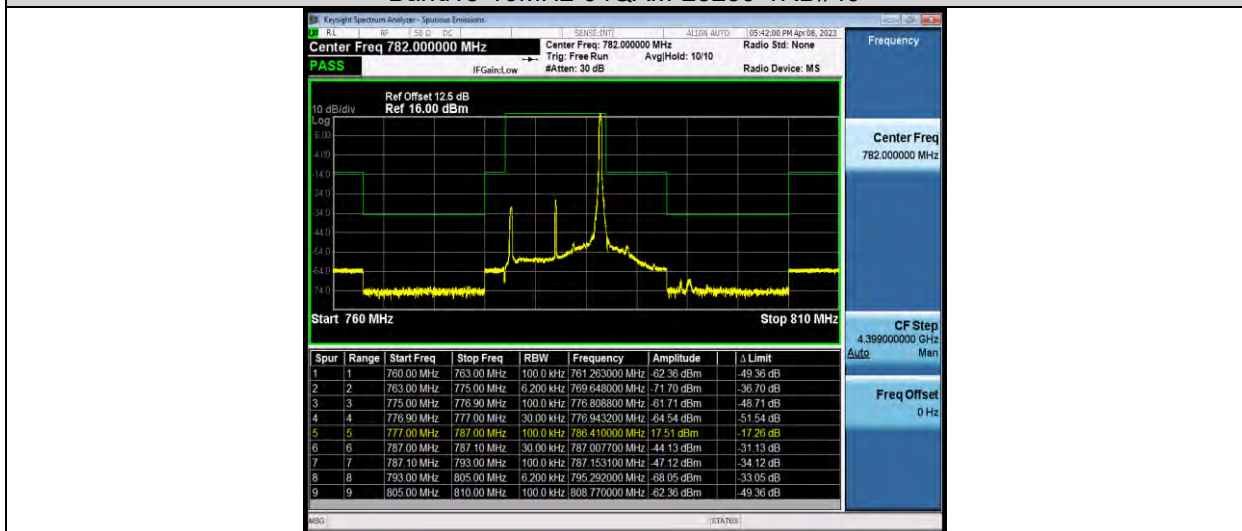
# Test Report No.: W7L-P23030025RF06



Band13-10MHz-64QAM-23230-1RB#0



Band13-10MHz-64QAM-23230-1RB#49



Band13-10MHz-64QAM-23230-50RB#0



BUREAU VERITAS

Test Report No.: W7L-P23030025RF06





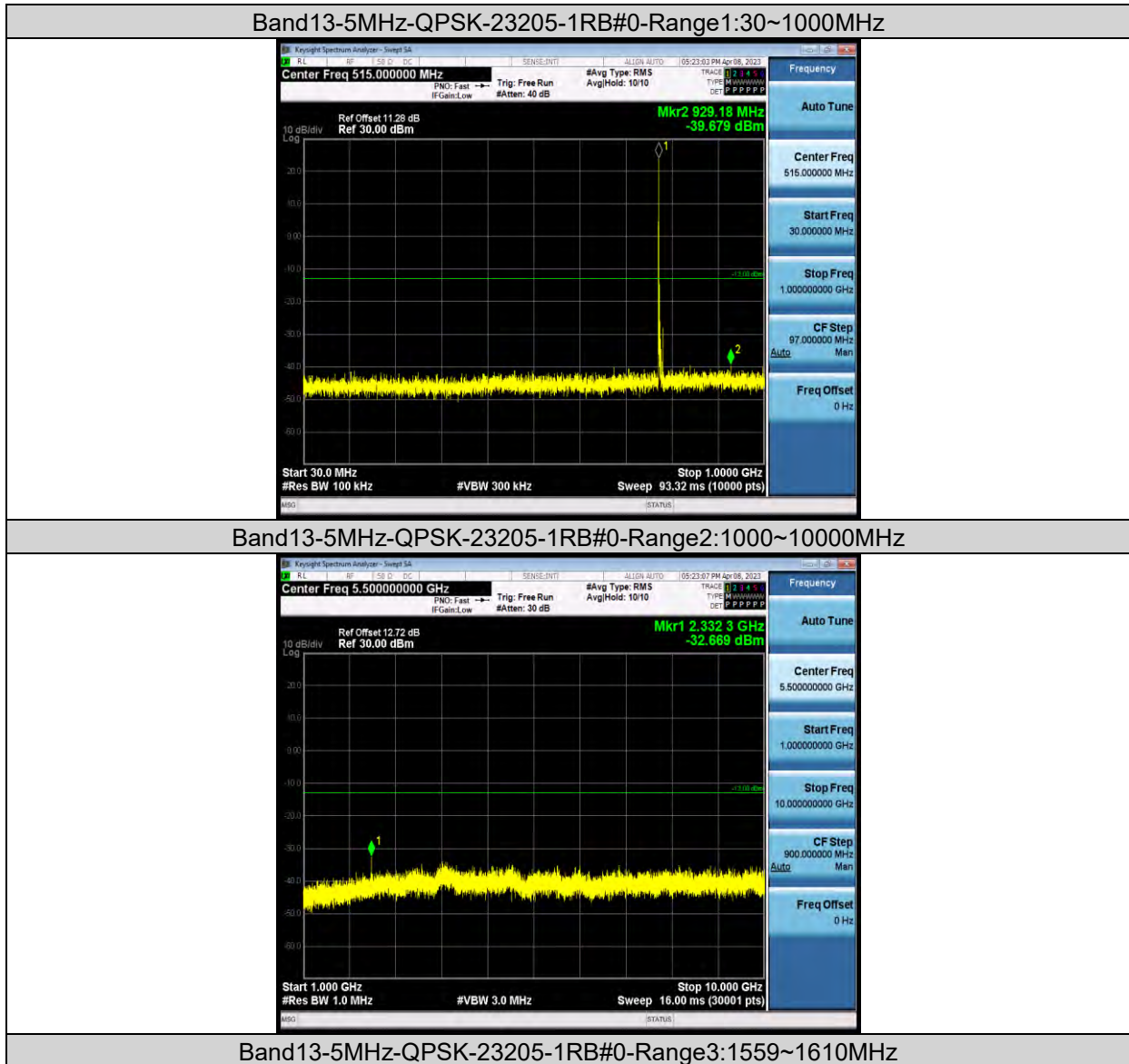
Test Report No.: W7L-P23030025RF06

## CONDUCTED SPURIOUS EMISSION

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-39.68	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-32.67	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:1559~1610MHz	-59.26	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-40.34	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-34.02	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:1559~1610MHz	-47.02	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-39.82	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-33.78	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:1559~1610MHz	-46.65	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-40.08	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-33.67	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:1559~1610MHz	-59.28	PASS

### Test Graphs







BUREAU VERITAS

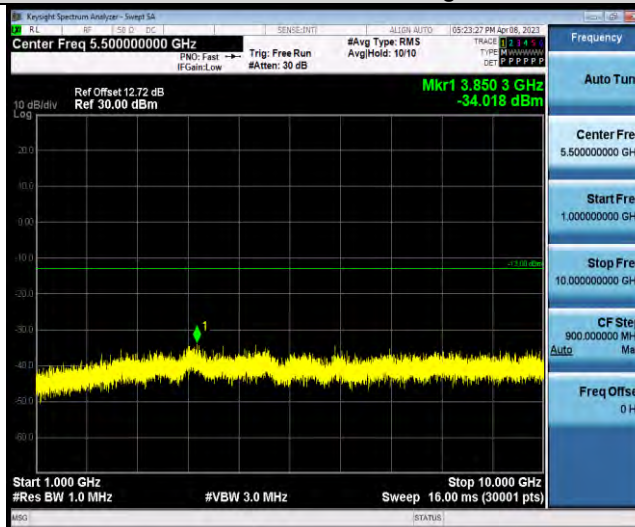
Test Report No.: W7L-P23030025RF06



Band13-5MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



Band13-5MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



Band13-5MHz-QPSK-23230-1RB#0-Range3:1559~1610MHz

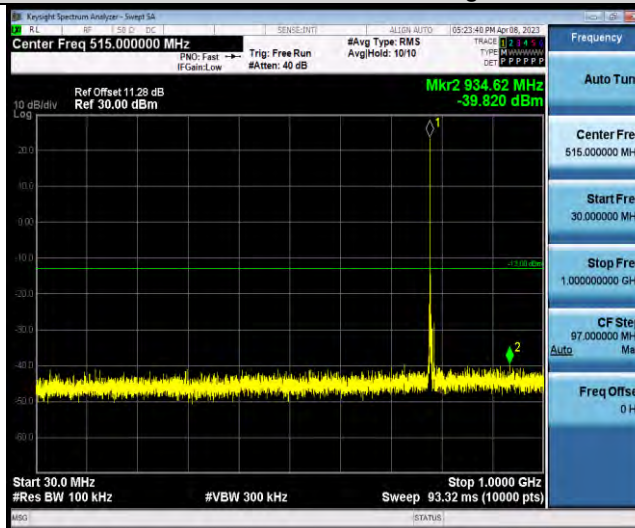


BUREAU VERITAS

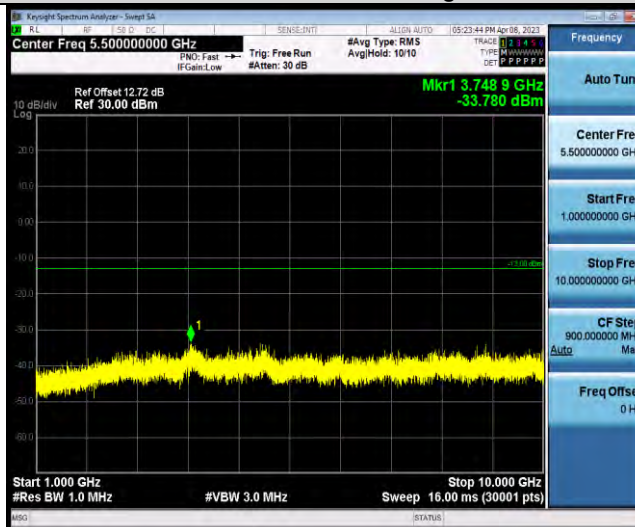
Test Report No.: W7L-P23030025RF06



Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz



Band13-5MHz-QPSK-23255-1RB#0-Range2:1000~10000MHz



Band13-5MHz-QPSK-23255-1RB#0-Range3:1559~1610MHz

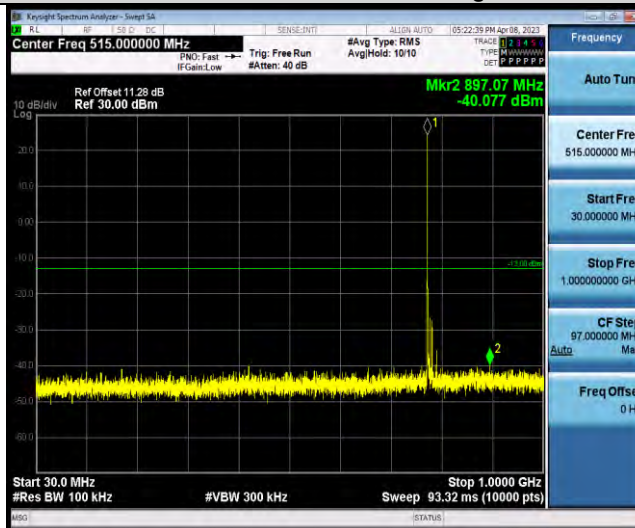


BUREAU VERITAS

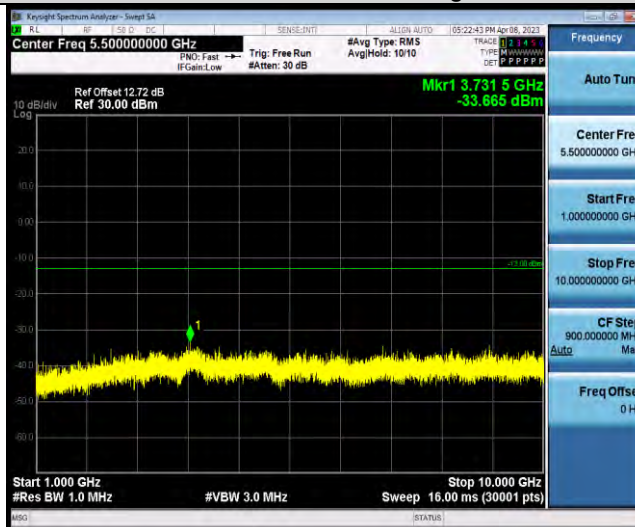
Test Report No.: W7L-P23030025RF06



Band13-10MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz

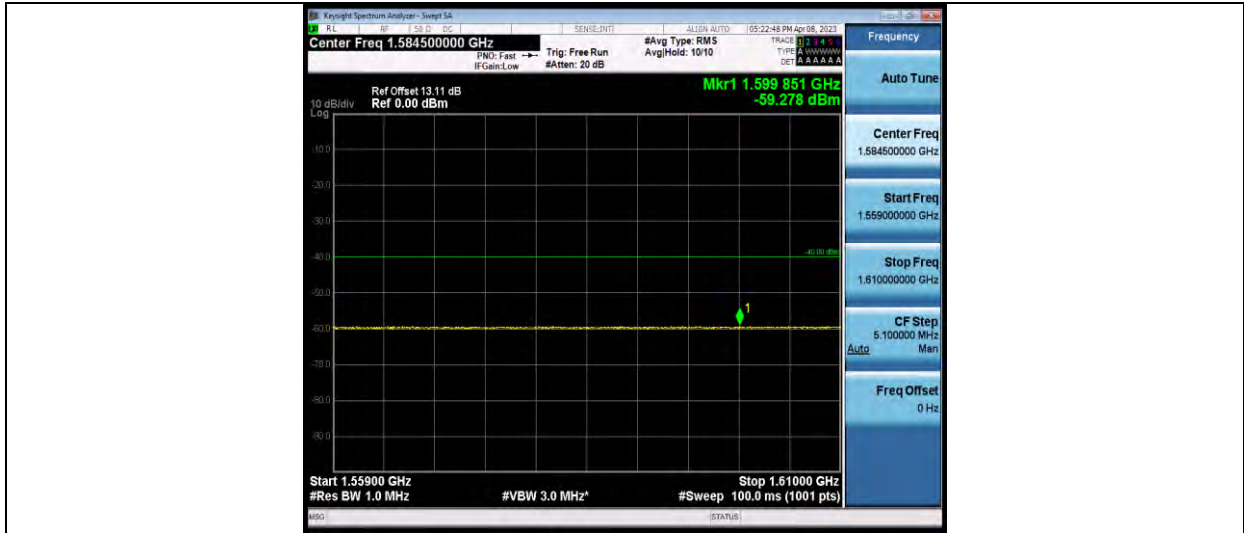


Band13-10MHz-QPSK-23230-1RB#0-Range3:1559~1610MHz



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## FREQUENCY STABILITY

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 3	10MHz	QPSK	23230	50RB#0	LV	NT	2.80	0.003581	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	NT	-1.07	-0.001368	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	HV	NT	1.96	0.002506	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 3	10MHz	QPSK	23230	50RB#0	NV	-30	2.37	0.003031	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	-20	-1.27	-0.001624	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	-10	-1.34	-0.001714	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	0	1.85	0.002366	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	10	0.82	0.001049	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	20	-1.44	-0.001841	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	30	-2.09	-0.002673	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	40	1.46	0.001867	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	50	1.70	0.002174	±2.5	PASS

Note: LV = Low voltage(3.4V); NV = Normal voltage(4V); HV = High voltage(4.35V);NT = Normal temperature (25°C).



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## MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L -  \text{MAX}(\Delta f) $	777.528350	$\geq 777$	PASS
$f_H +  \text{MAX}(\Delta f) $	786.471650	$\leq 787$	

Note : 1.  $|\text{MAX}(\Delta f)|$  = Max Deviation

2.  $f_L$  = Occ low channel  $f_L(-13\text{dBm/MHz})$

3.  $f_H$  = Occ High channel  $f_H(-13\text{dBm/MHz})$

4.  $|\text{MAX}(\Delta f)|$  = 2.8Hz.



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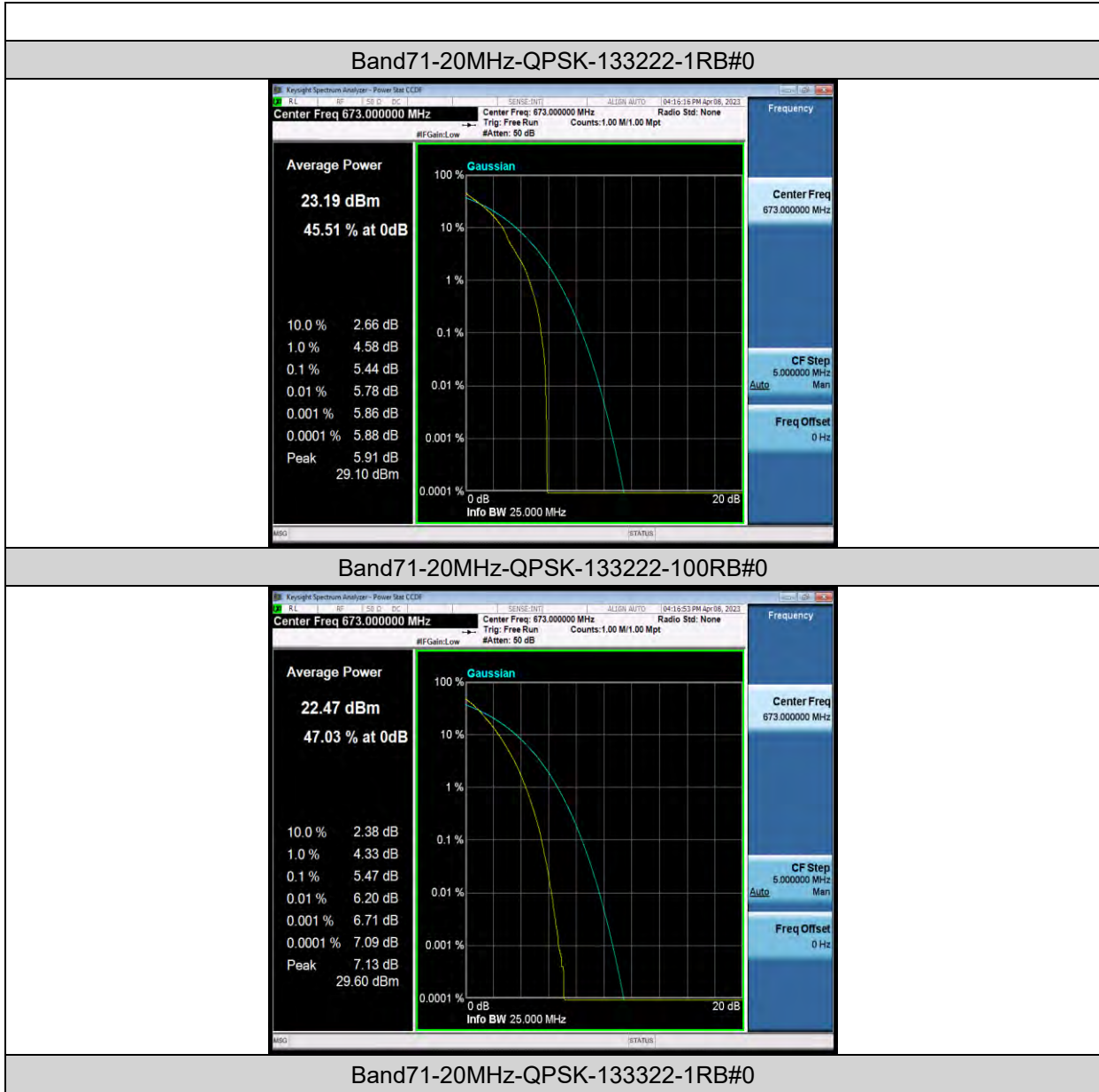
## LTE BAND 71

### PEAK-TO-AVERAGE RATIO(CCDF)

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	1RB#0	5.44	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.47	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	5.35	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.54	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	5.89	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.47	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	6.69	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.35	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	6.42	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.37	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	6.72	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.26	13	PASS
Band71	20MHz	64QAM	133222	1RB#0	6.70	13	PASS
Band71	20MHz	64QAM	133222	100RB#0	6.64	13	PASS
Band71	20MHz	64QAM	133322	1RB#0	6.64	13	PASS
Band71	20MHz	64QAM	133322	100RB#0	6.70	13	PASS
Band71	20MHz	64QAM	133372	1RB#0	6.99	13	PASS
Band71	20MHz	64QAM	133372	100RB#0	6.60	13	PASS

### Test Graphs

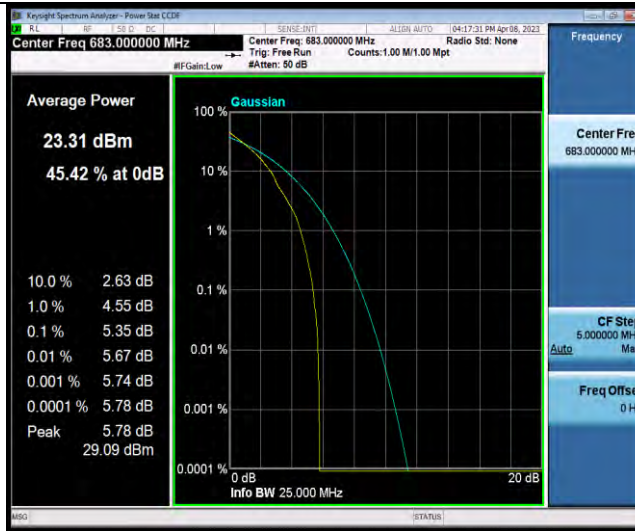




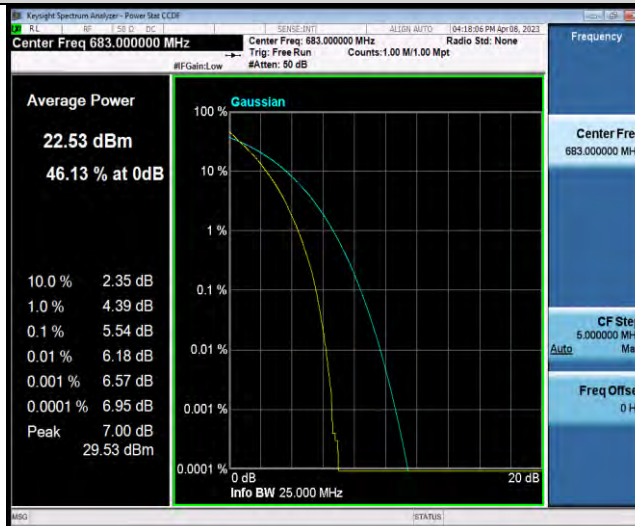


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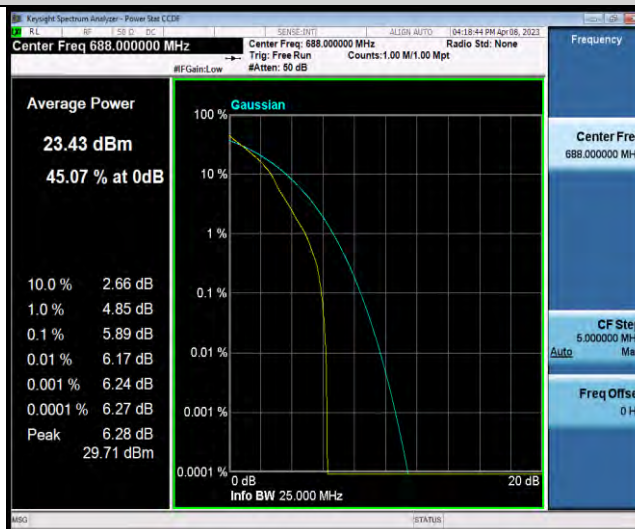
Test Report No.: W7L-P23030025RF06



Band71-20MHz-QPSK-133322-100RB#0



Band71-20MHz-QPSK-133372-1RB#0

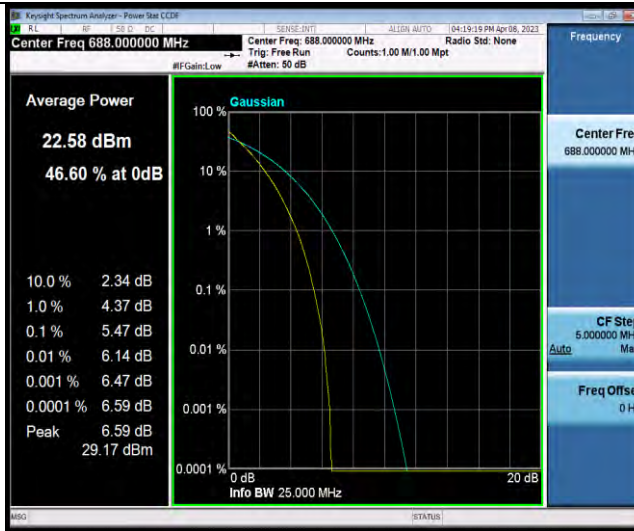


Band71-20MHz-QPSK-133372-100RB#0



BUREAU VERITAS

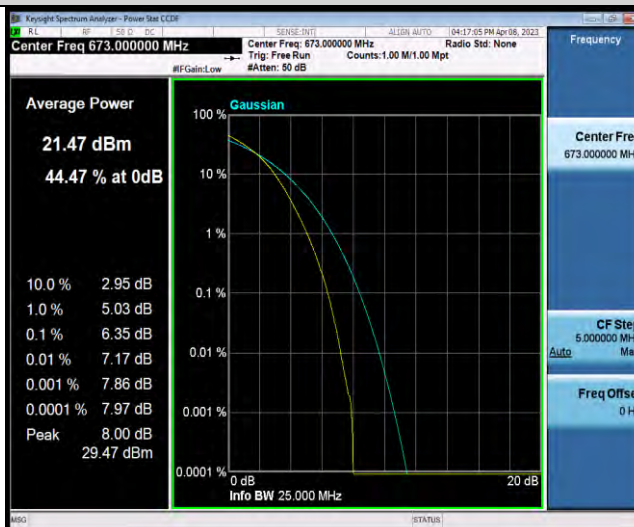
Test Report No.: W7L-P23030025RF06



Band71-20MHz-16QAM-133222-1RB#0



Band71-20MHz-16QAM-133222-100RB#0



Band71-20MHz-16QAM-133322-1RB#0