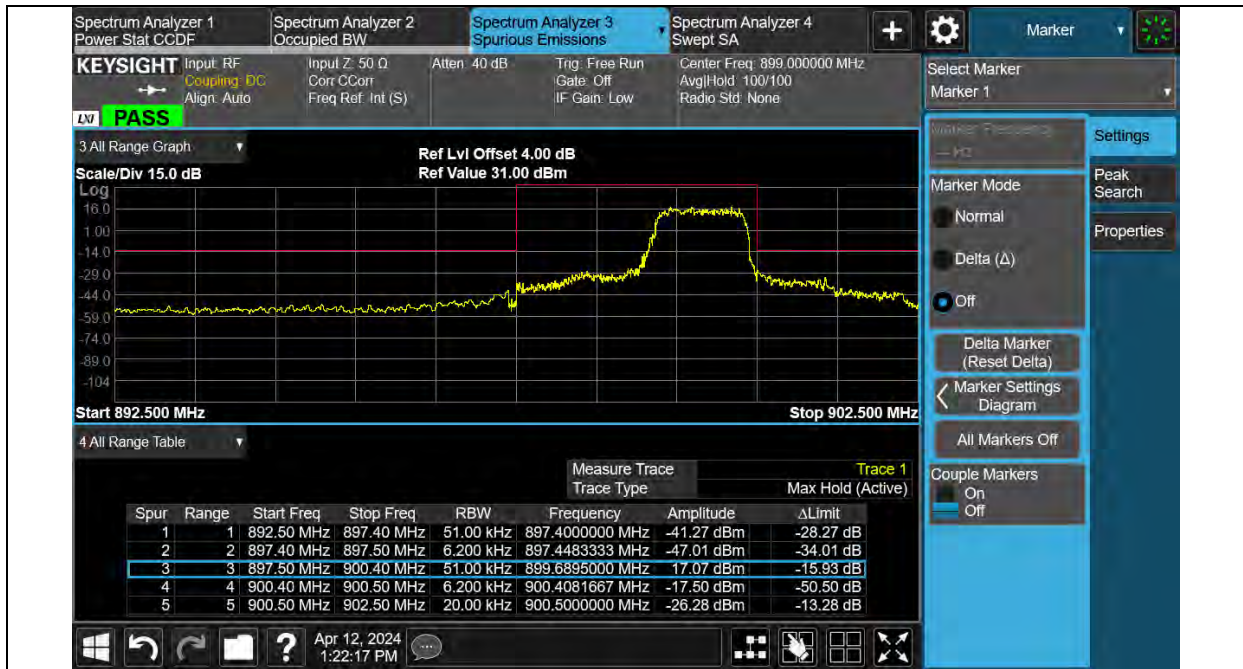


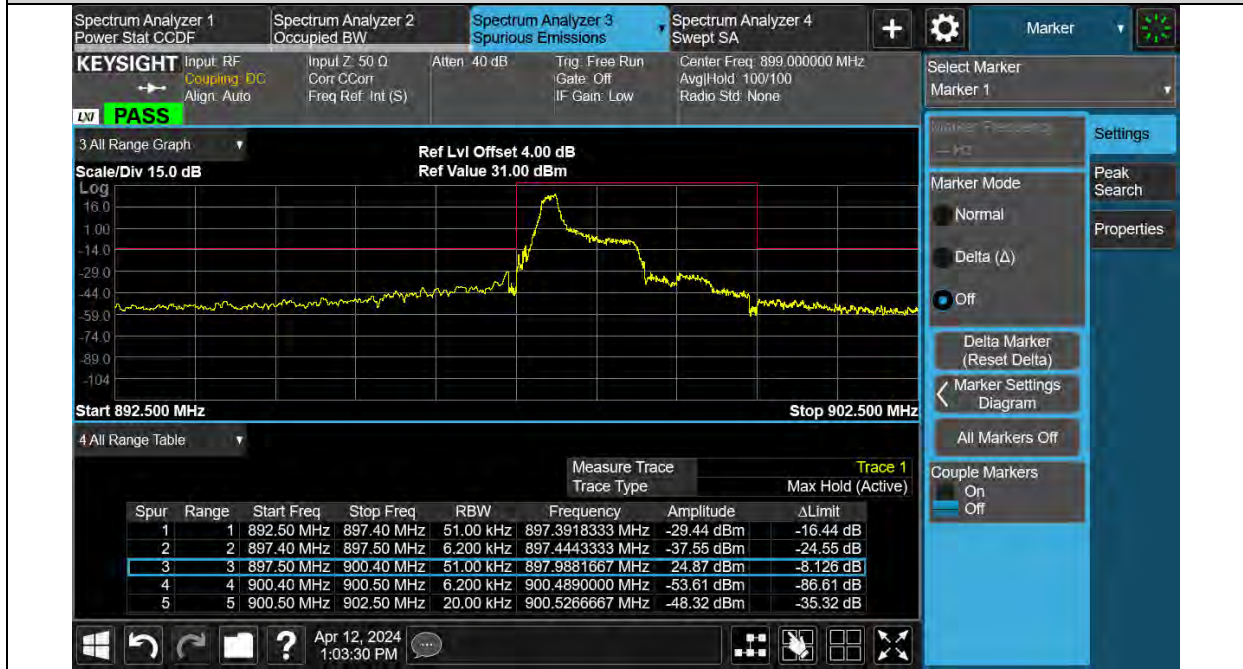


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band8A-3MHz-QPSK-21640-1RB#0

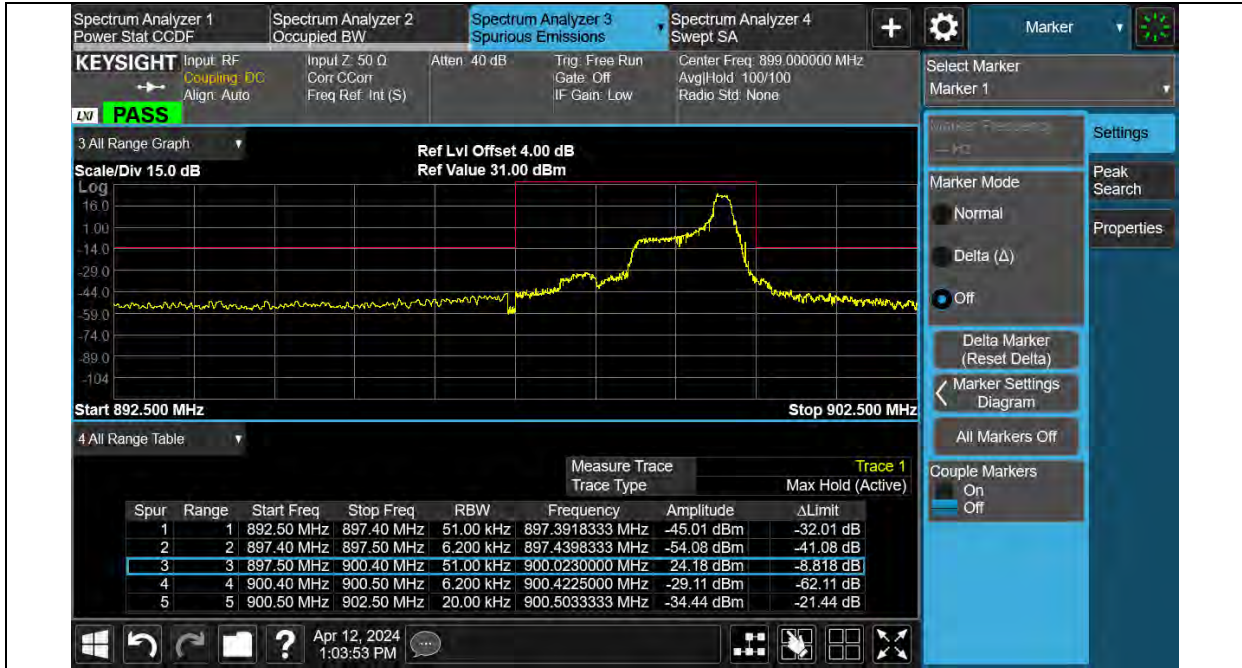


Band8A-3MHz-QPSK-21640-1RB#5

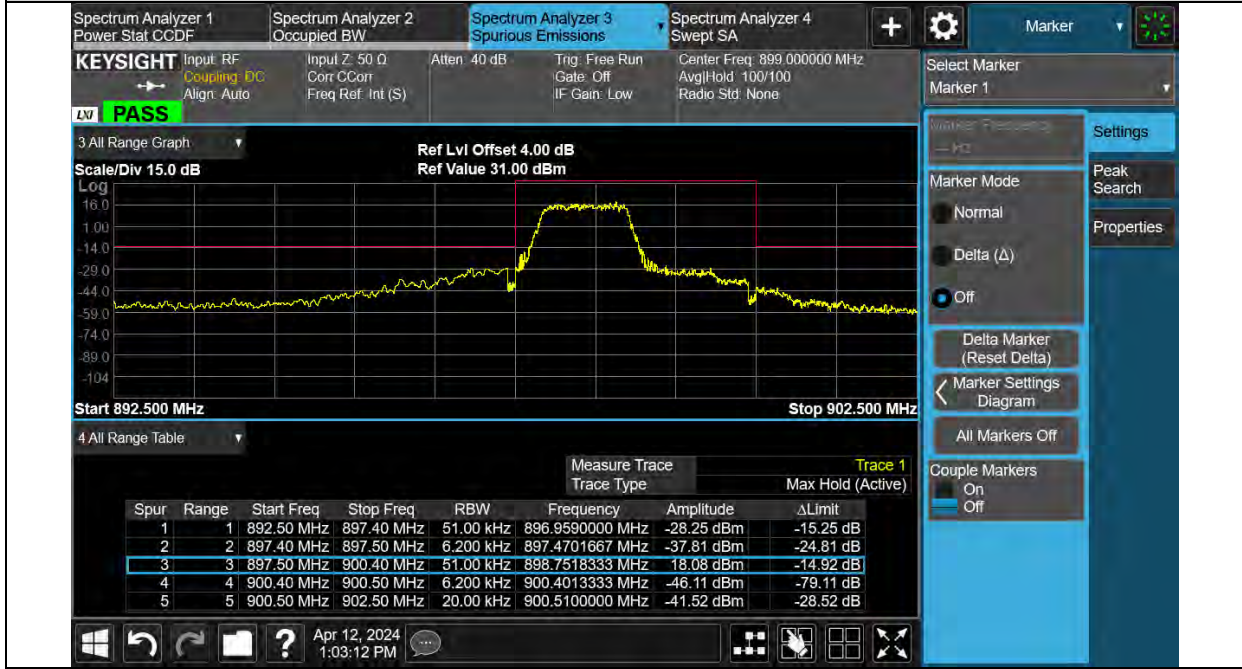


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band8A-3MHz-QPSK-21640-6RB#0

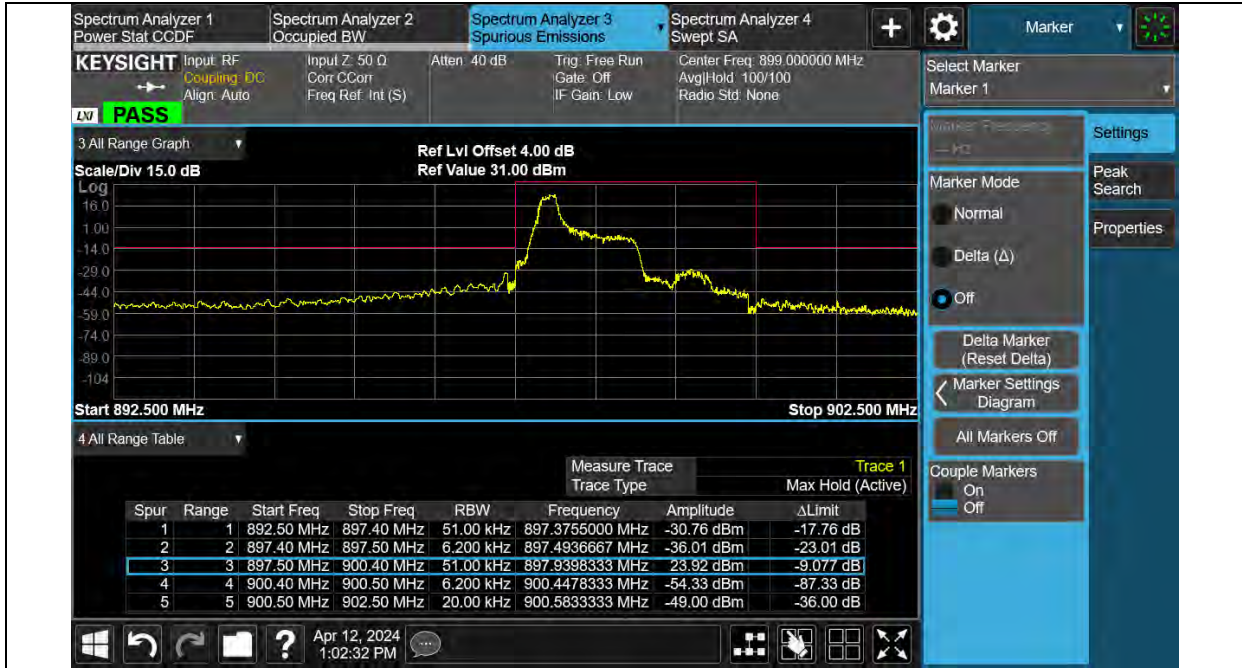


Band8A-3MHz-16QAM-21640-1RB#0

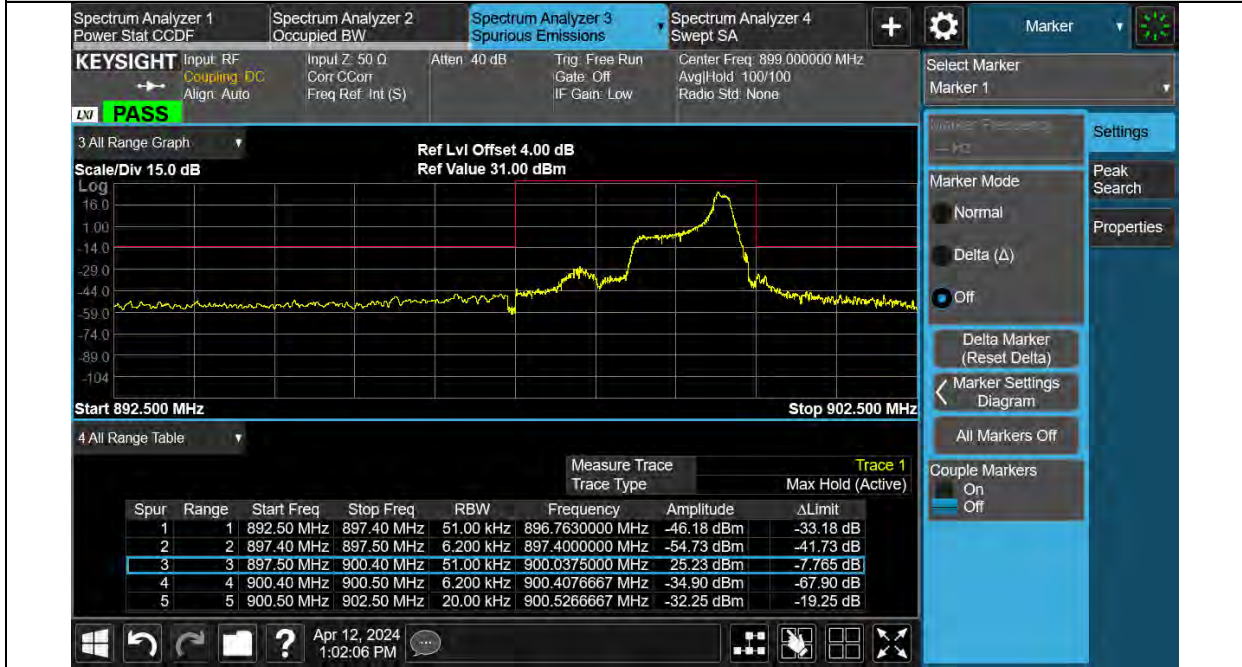


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band8A-3MHz-16QAM-21640-1RB#5



Band8A-3MHz-16QAM-21640-6RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03





Test Report No.: W7L-240204W001RF03

## CONDUCTED SPURIOUS EMISSION

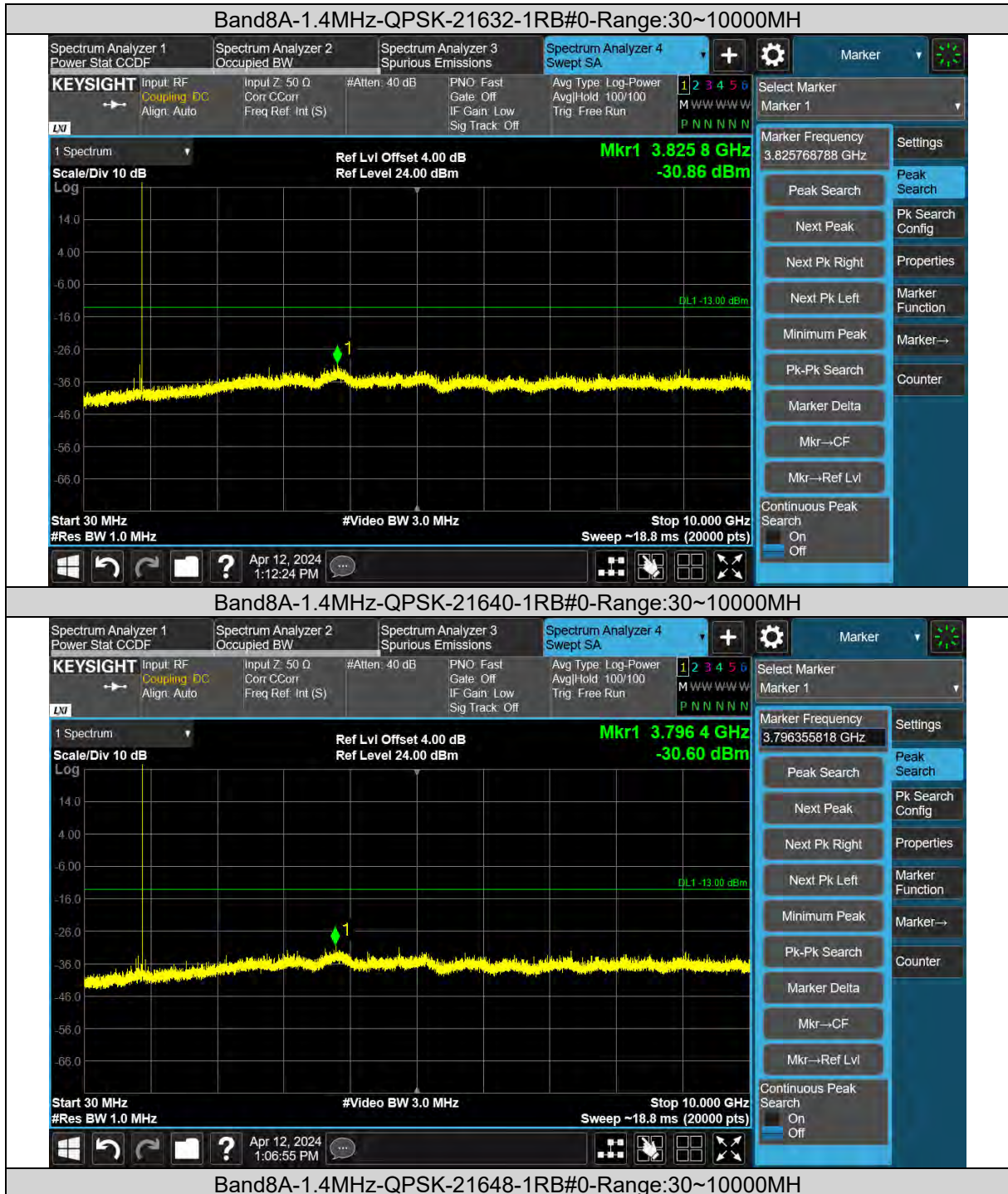
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band8A	1.4MHz	QPSK	21632	1RB#0	Range:30~10000MHz	Pass	PASS
Band8A	1.4MHz	QPSK	21640	1RB#0	Range:30~10000MHz	Pass	PASS
Band8A	1.4MHz	QPSK	21648	1RB#0	Range:30~10000MHz	Pass	PASS
Band8A	1.4MHz	16QAM	21632	1RB#0	Range:30~10000MHz	Pass	PASS
Band8A	1.4MHz	16QAM	21640	1RB#0	Range:30~10000MHz	Pass	PASS
Band8A	1.4MHz	16QAM	21648	1RB#0	Range:30~10000MHz	Pass	PASS
Band8A	3MHz	QPSK	21648	1RB#0	Range:30~10000MHz	Pass	PASS
Band8A	3MHz	16QAM	21648	1RB#0	Range:30~10000MHz	Pass	PASS



Test Report No.: W7L-240204W001RF03

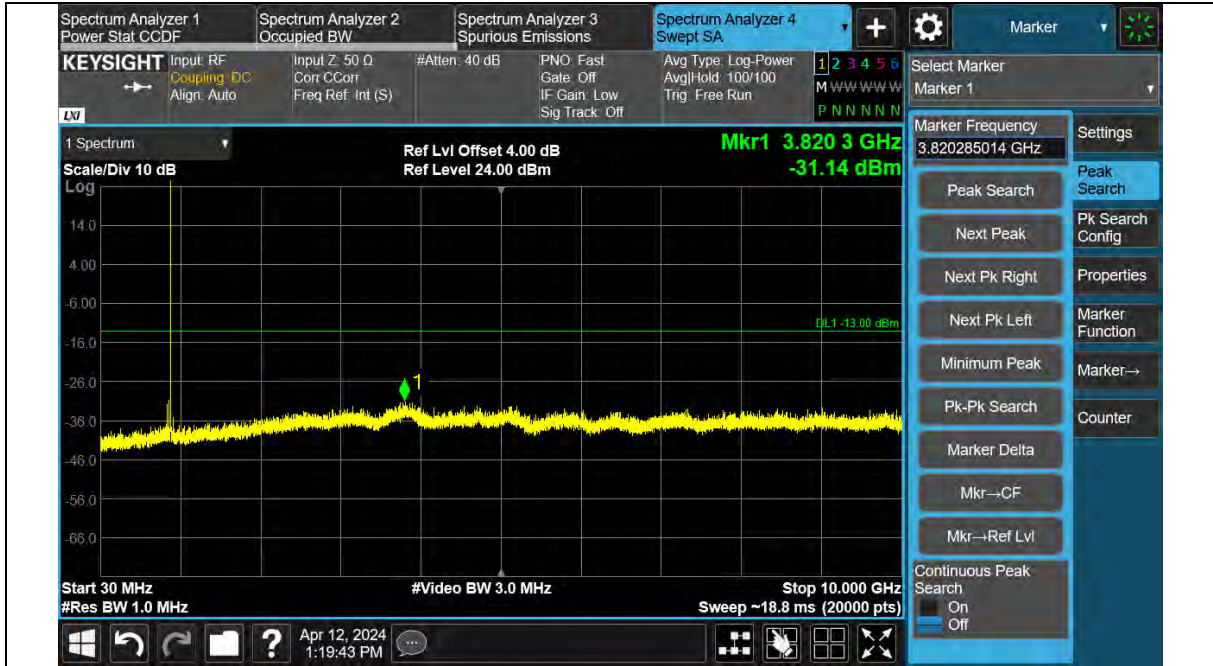
## Test Graphs



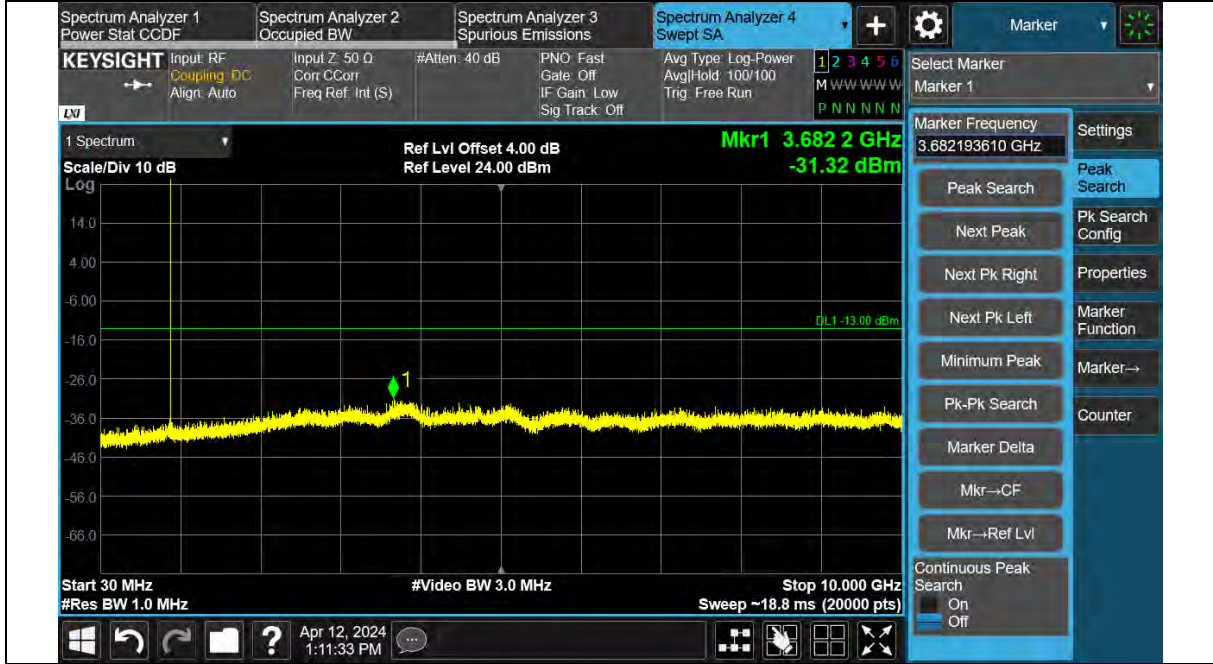


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band8A-1.4MHz-16QAM-21632-1RB#0-Range:30~10000MH

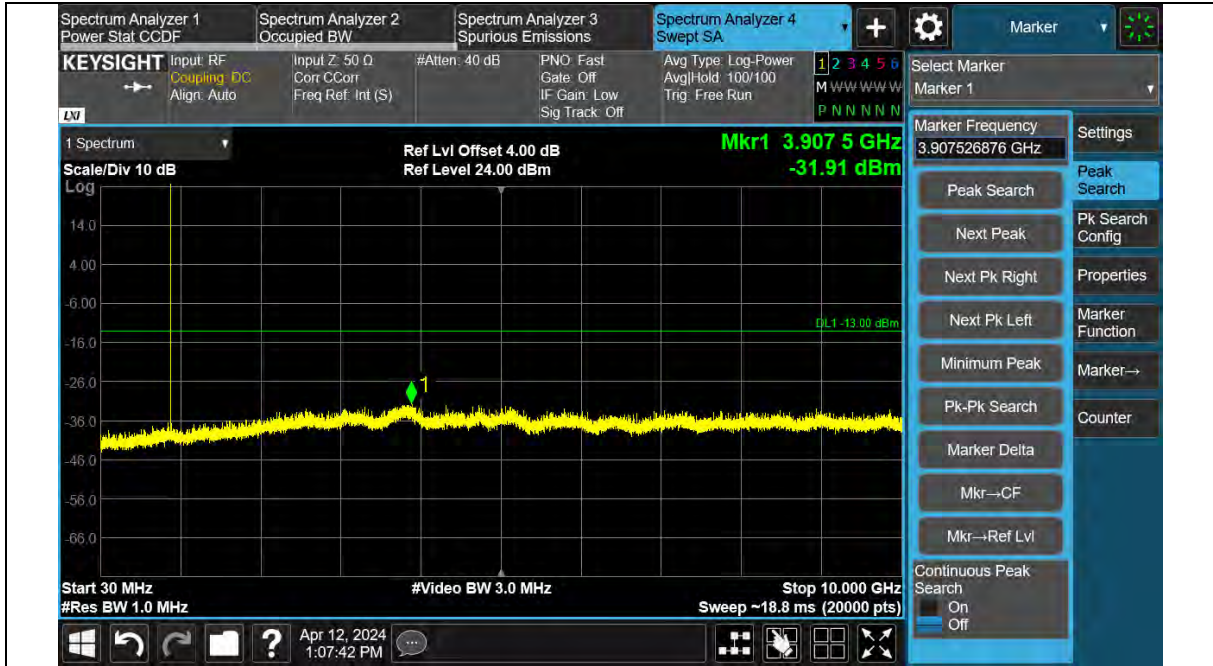


Band8A-1.4MHz-16QAM-21640-1RB#0-Range:30~10000MH

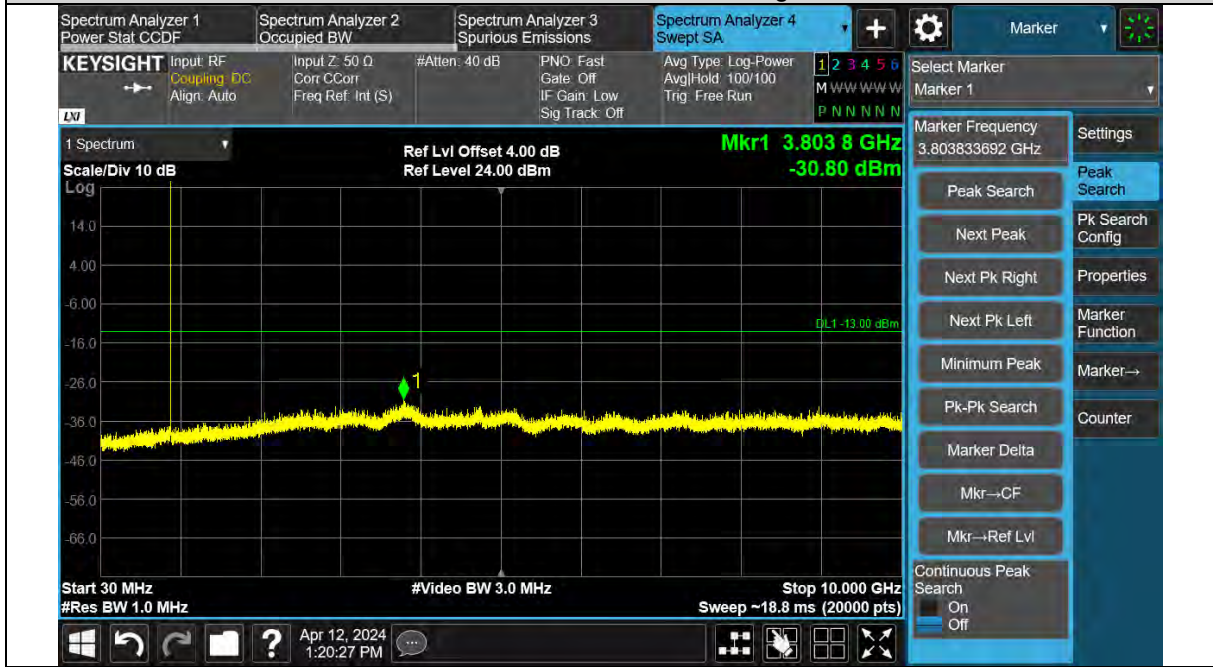


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



Band8A-1.4MHz-16QAM-21648-1RB#0-Range:30~10000MH



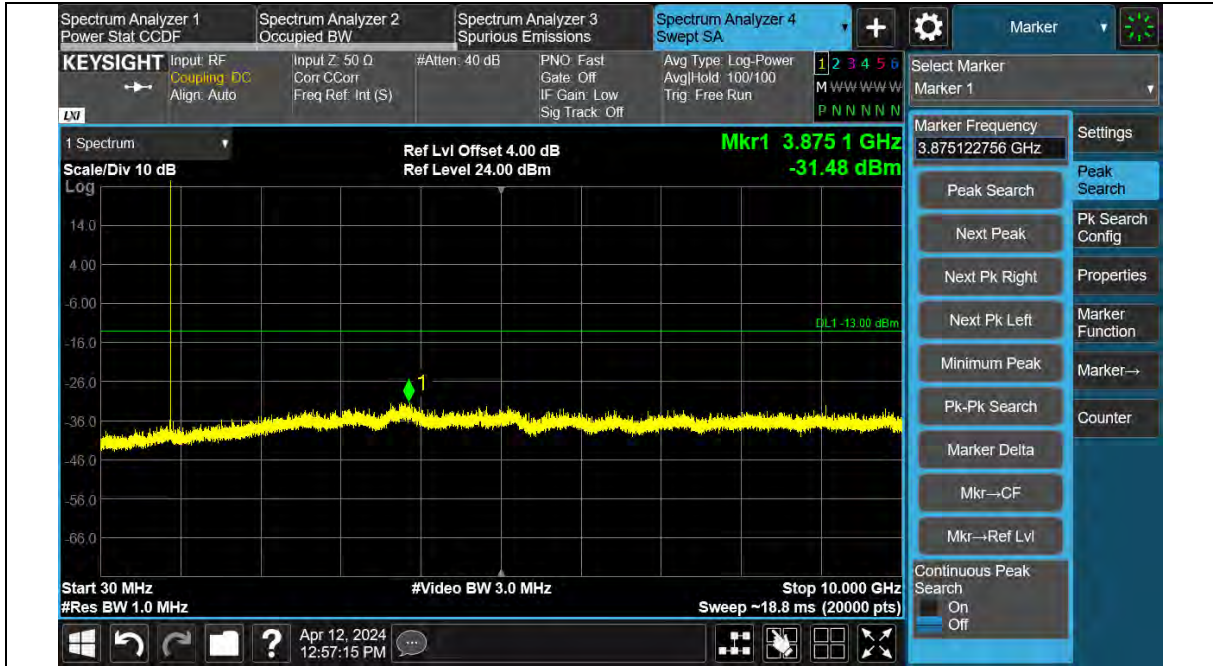
Band8A-3MHz-QPSK-21640-1RB#0-Range:30~10000MH



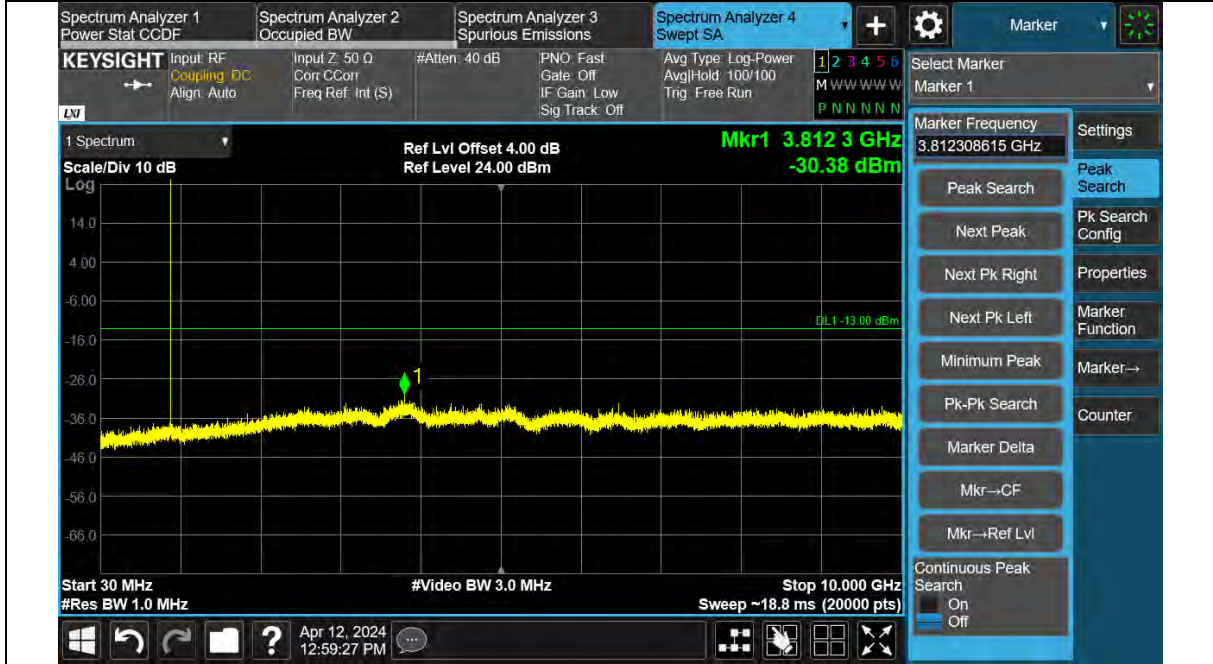


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8A-3MHz-16QAM-21640-1RB#0-Range:30~10000MH





## FREQUENCY STABILITY

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band8A	3MHz	QPSK	21640	6RB#0	VL	NT	27.27	0.031828	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	VN	NT	24.35	0.031238	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	VH	NT	25.69	0.032957	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	VL	NT	33.93	0.043389	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	VN	NT	13.76	0.017596	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	VH	NT	21.76	0.027826	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band8A	3MHz	QPSK	21640	6RB#0	NV	-30	-5.6	-0.007161	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	-20	15.6	0.019949	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	-10	17.3	0.022123	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	0	2.2	0.002813	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	10	-14.1	-0.018031	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	20	6.4	0.008184	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	30	21.6	0.027621	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	40	-13.7	-0.017519	±2.5	PASS
Band8A	3MHz	QPSK	21640	6RB#0	NV	50	-21.2	-0.027110	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	-30	-15.6	-0.019949	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	-20	10.3	0.013171	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	-10	-16.5	-0.021100	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	0	-8.7	-0.011125	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	10	16.4	0.020972	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	20	-20.4	-0.026087	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	30	20.4	0.026087	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	40	14.3	0.018286	±2.5	PASS
Band8A	3MHz	16QAM	21640	6RB#0	NV	50	18.7	0.023913	±2.5	PASS



Test Report No.: W7L-240204W001RF03

## NB-IOT: LTE BAND8

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

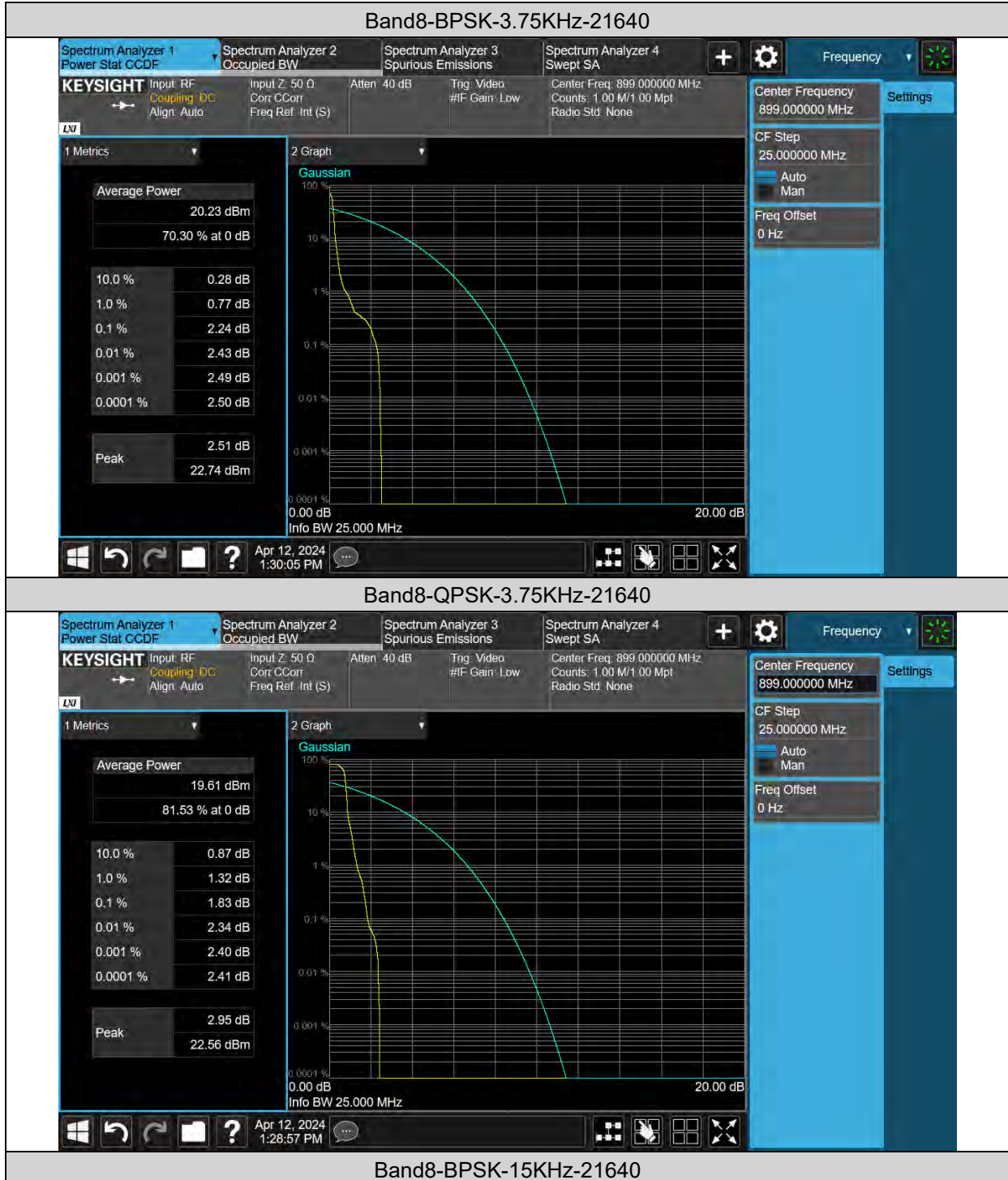
#### Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channe	Result(dB)	Limit(dB)	Verdict
Band8	BPSK	3.75	21640	2.24	13	PASS
	QPSK	3.75	21640	1.83	13	PASS
	BPSK	15	21640	1.99	13	PASS
	QPSK	15	21640	1.99	13	PASS



Test Report No.: W7L-240204W001RF03

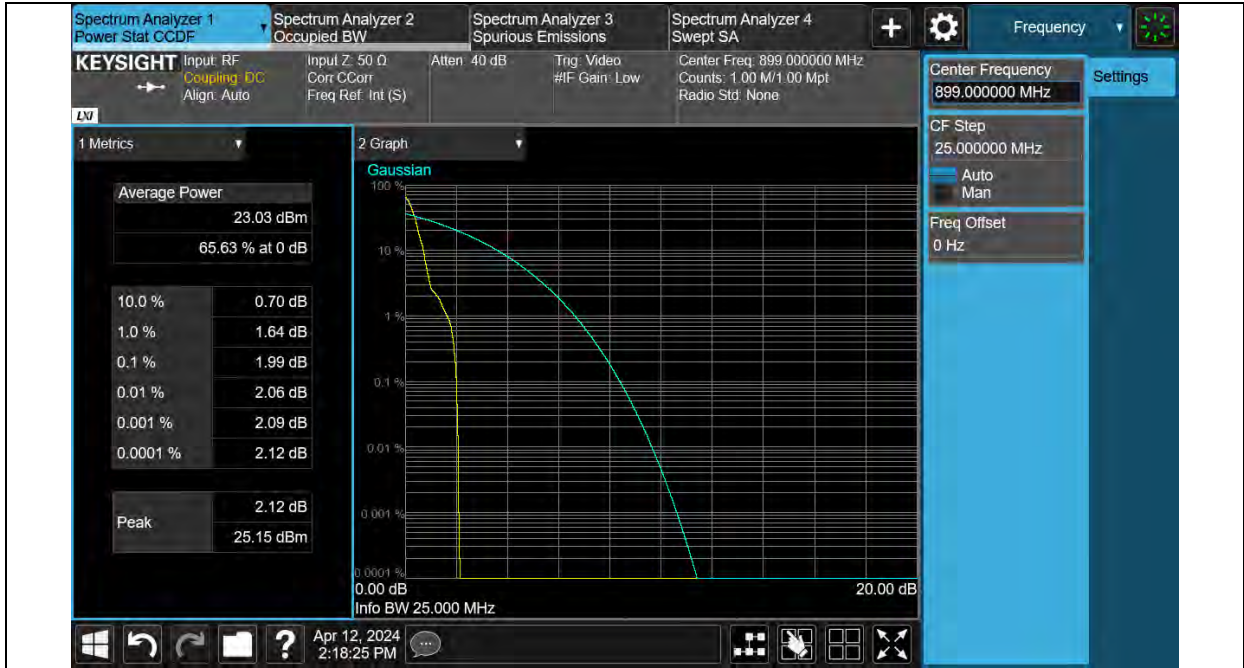
### Test Graphs



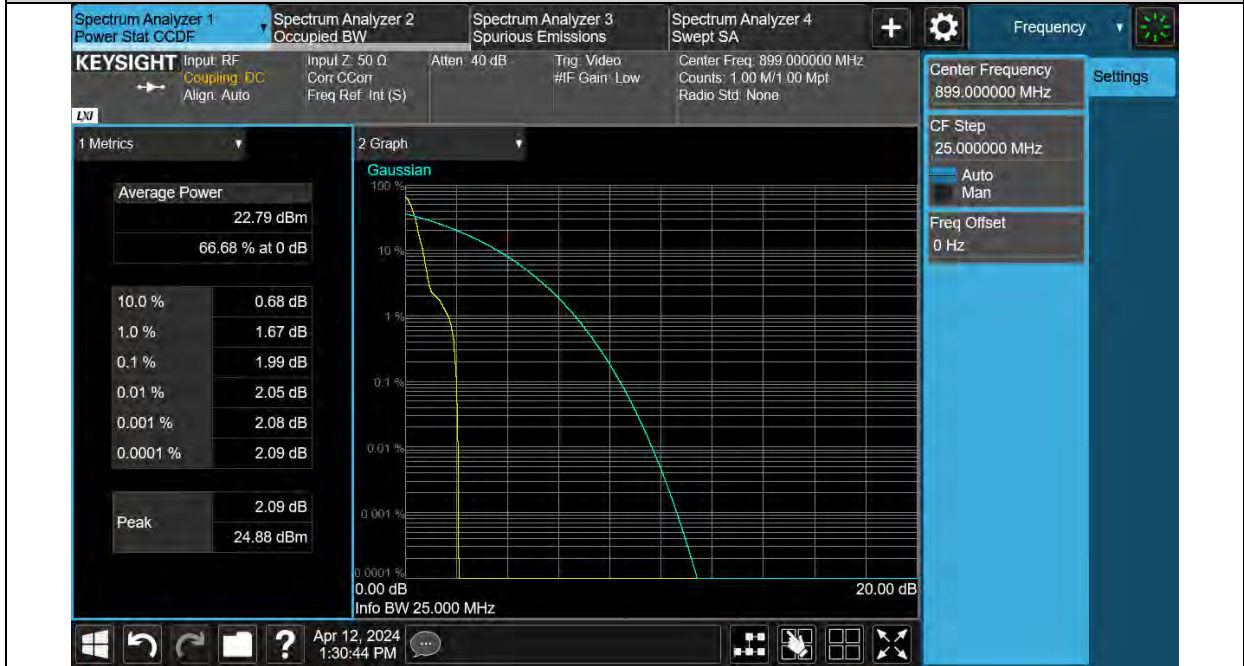


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-15KHz-21640



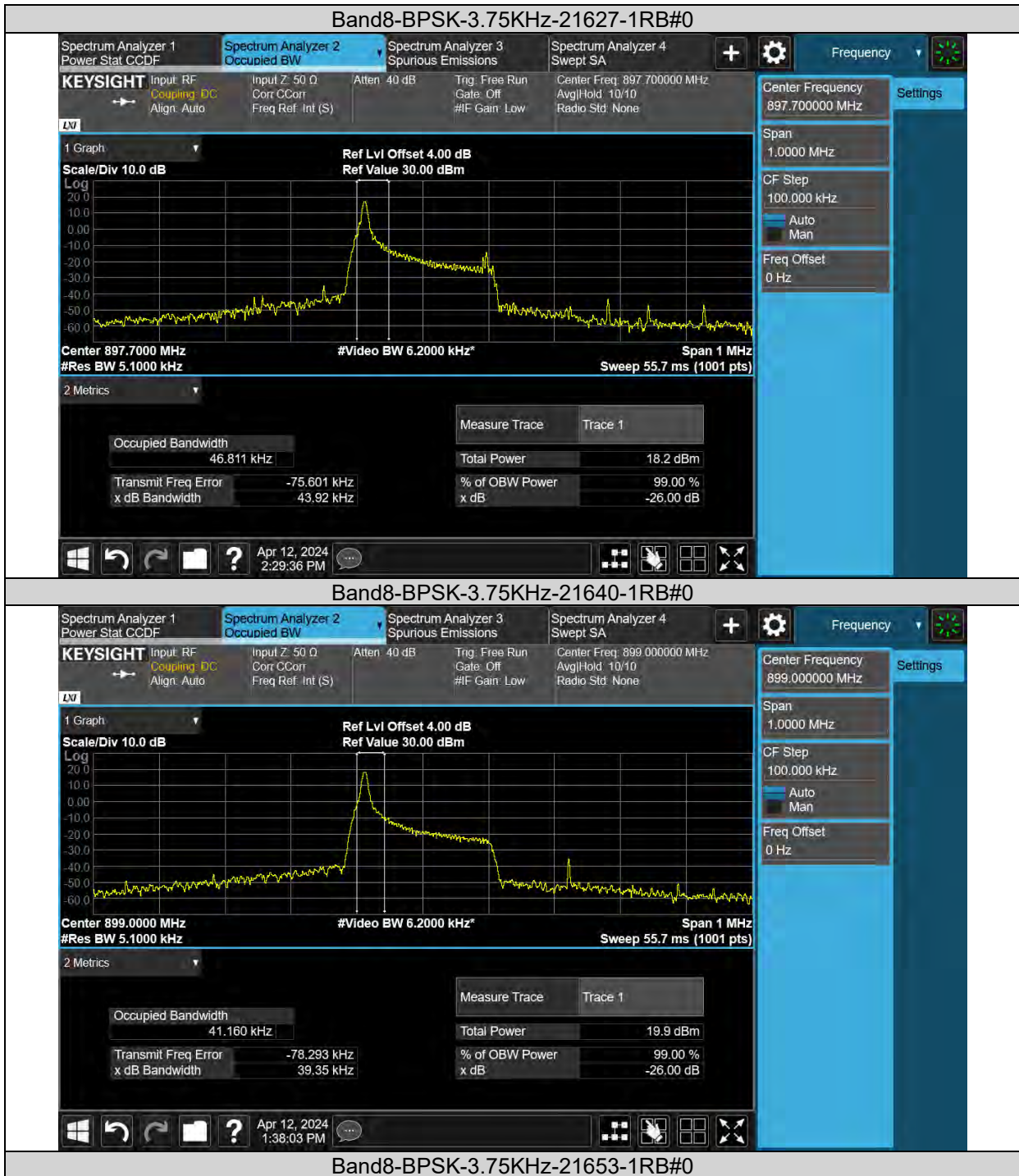


### 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

#### Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Verdict
Band8	BPSK	3.75	21627	1RB#0	46.811	43.92	PASS
Band8	BPSK	3.75	21640	1RB#0	41.160	39.35	PASS
Band8	BPSK	3.75	21653	1RB#0	47.215	37.97	PASS
Band8	QPSK	3.75	21627	1RB#0	46.185	40.69	PASS
Band8	QPSK	3.75	21640	1RB#0	45.847	39.03	PASS
Band8	QPSK	3.75	21653	1RB#0	45.197	41.71	PASS
Band8	BPSK	15	21627	1RB#0	116.42	118.5	PASS
Band8	BPSK	15	21640	1RB#0	133.59	130.4	PASS
Band8	BPSK	15	21653	1RB#0	98.154	91.23	PASS
Band8	QPSK	15	21627	1RB#0	110.78	117.4	PASS
Band8	QPSK	15	21640	1RB#0	111.45	79.83	PASS
Band8	QPSK	15	21653	1RB#0	97.775	90.24	PASS
Band8	QPSK	15	21627	12RB#0	188.16	215.0	PASS
Band8	QPSK	15	21640	12RB#0	185.84	214.7	PASS
Band8	QPSK	15	21653	12RB#0	190.80	216.9	PASS

### Test Graphs





BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



#### Band8-QPSK-3.75KHz-21627-1RB#0



#### Band8-QPSK-3.75KHz-21640-1RB#0



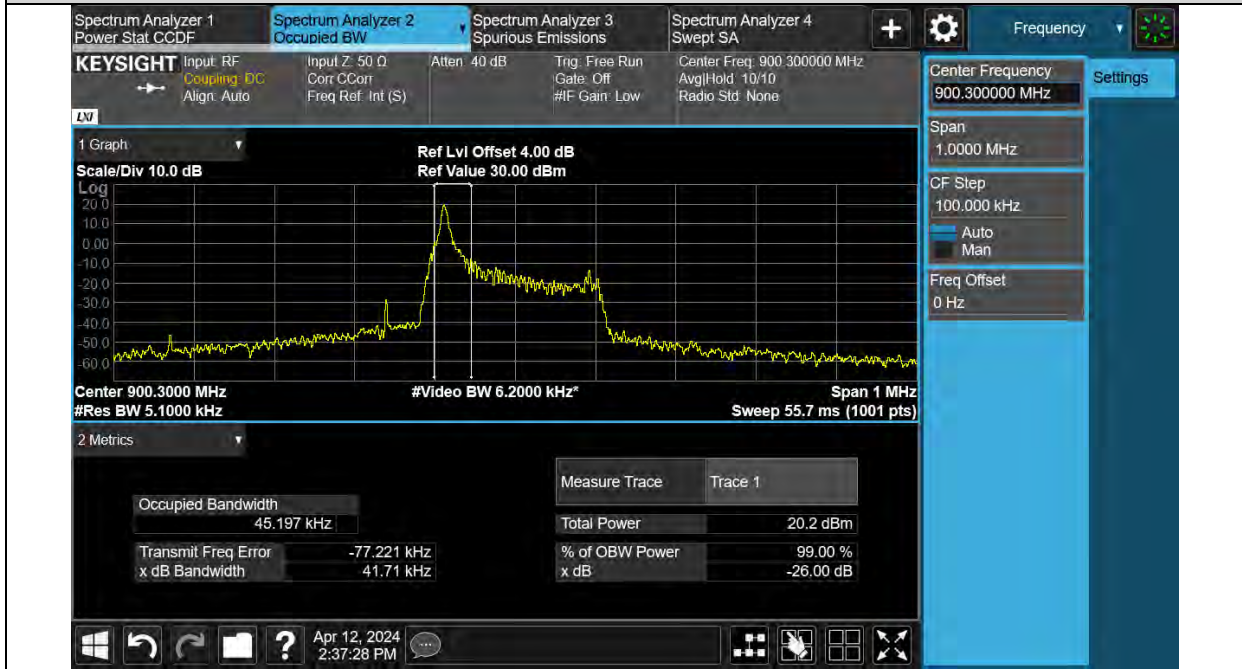


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-3.75KHz-21653-1RB#0

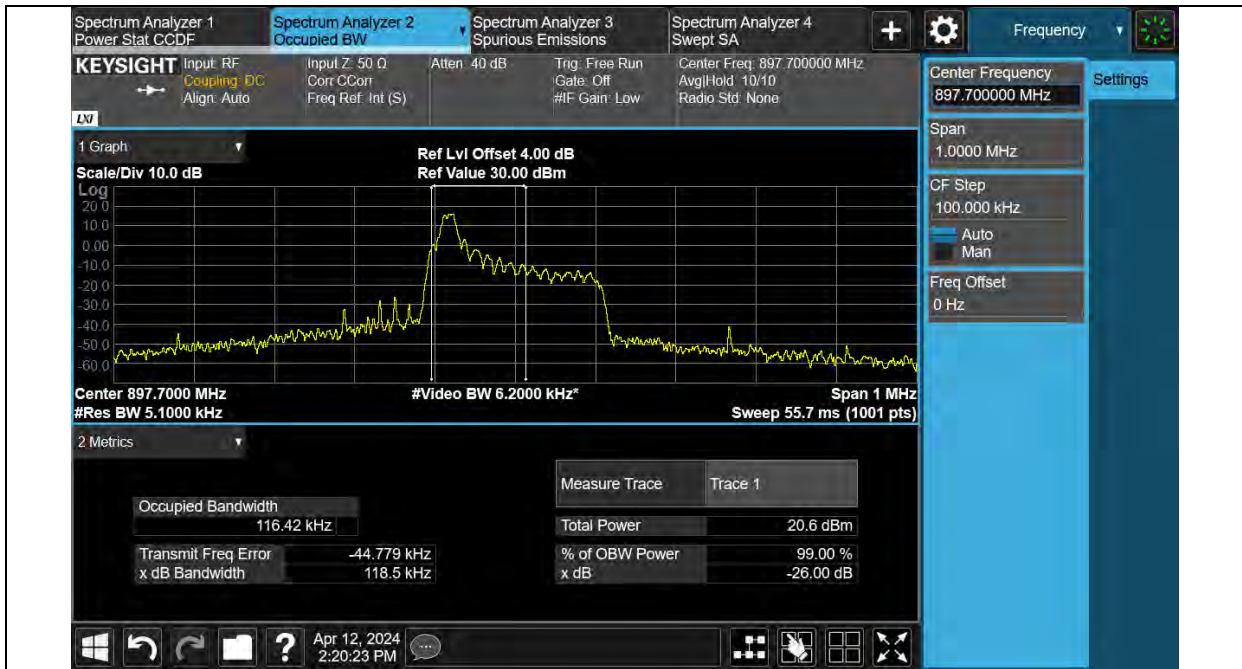


### Band8-BPSK-15KHz-21627-1RB#0

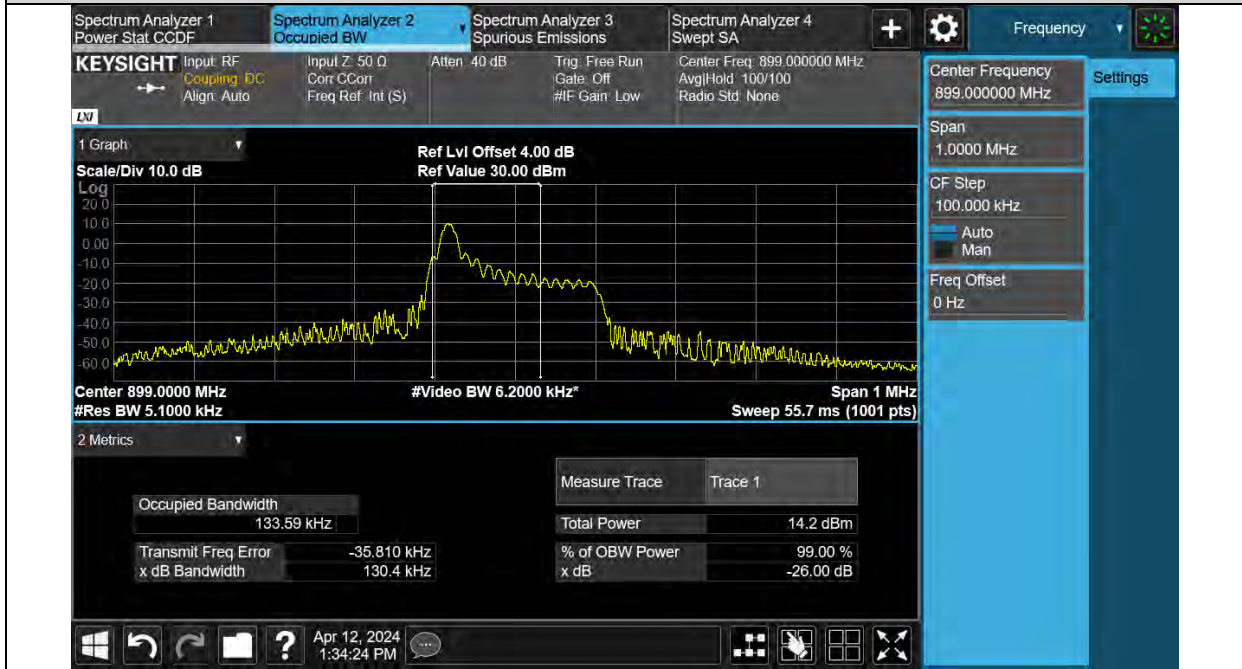


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-BPSK-15KHz-21640-1RB#0

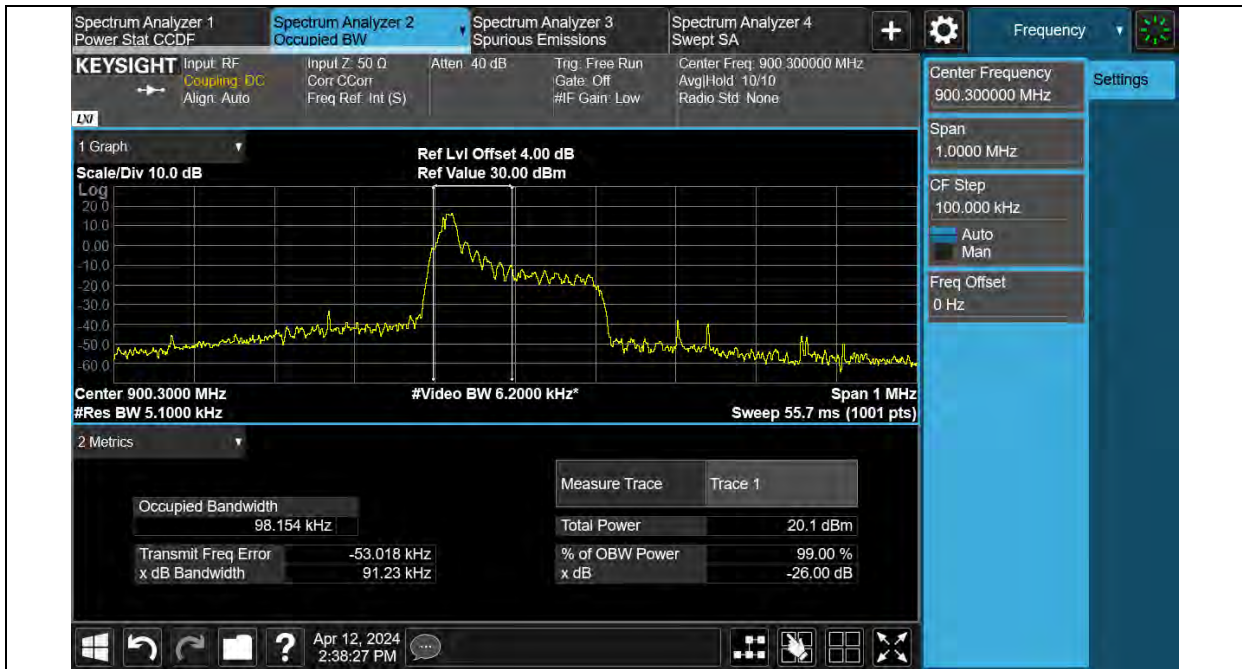


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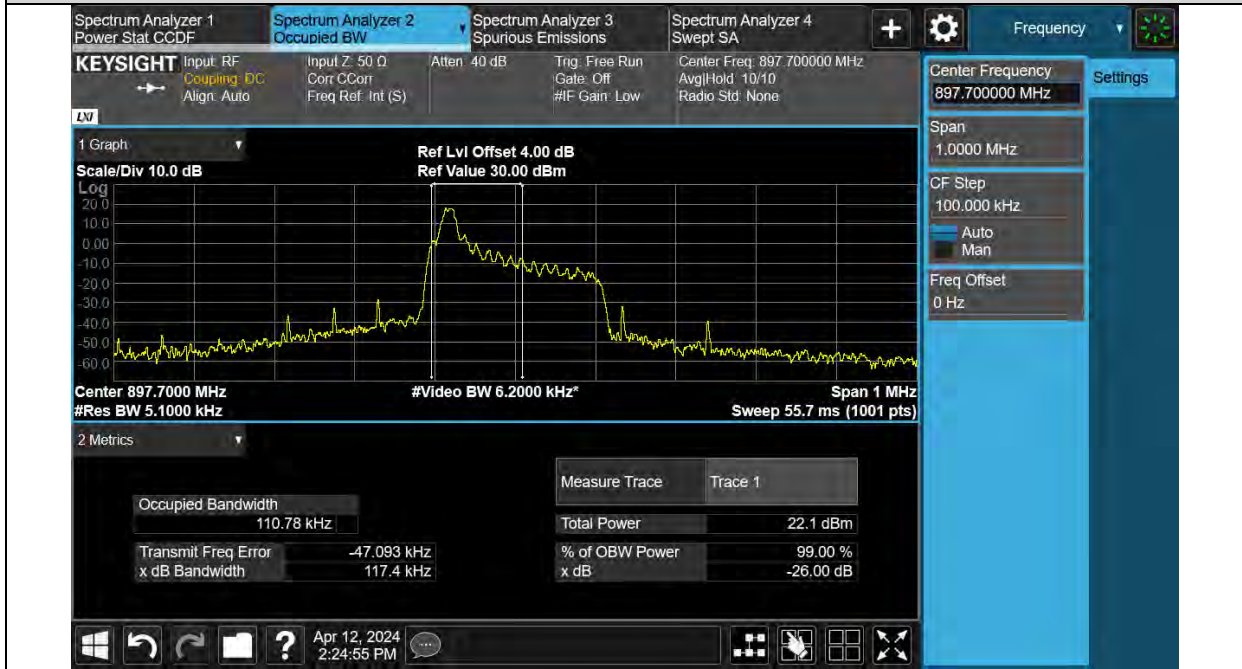


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



#### Band8-QPSK-15KHz-21627-1RB#0



#### Band8-QPSK-15KHz-21640-1RB#0

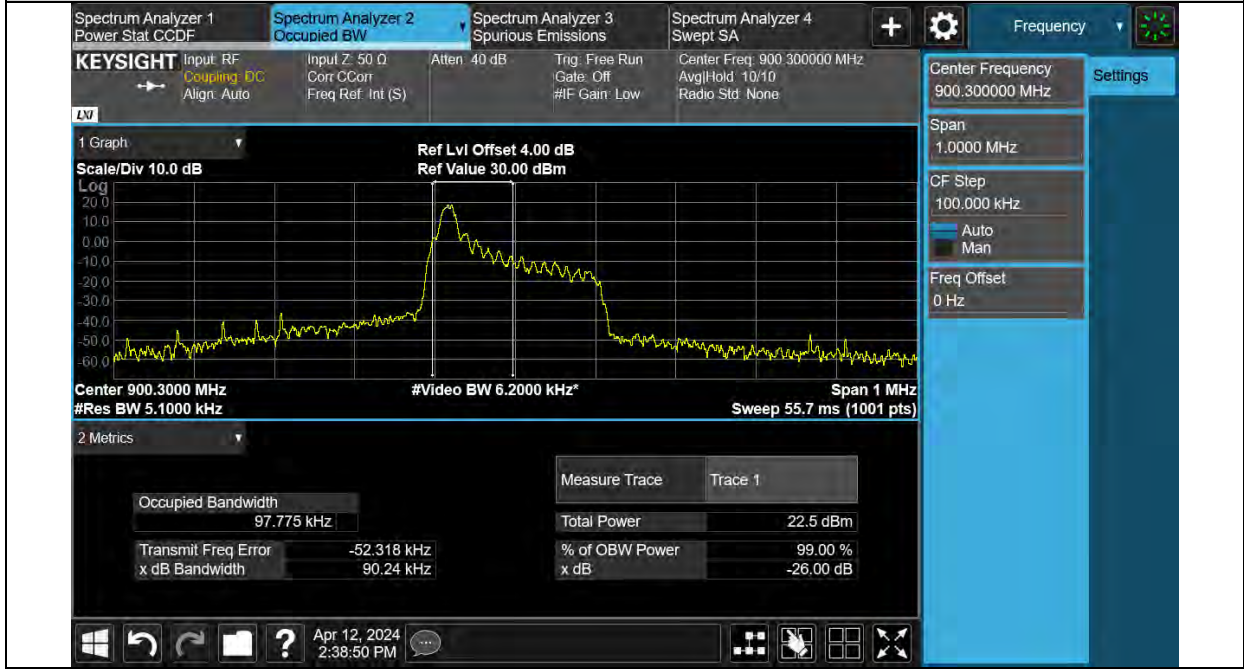


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



#### Band8-QPSK-15KHz-21653-1RB#0

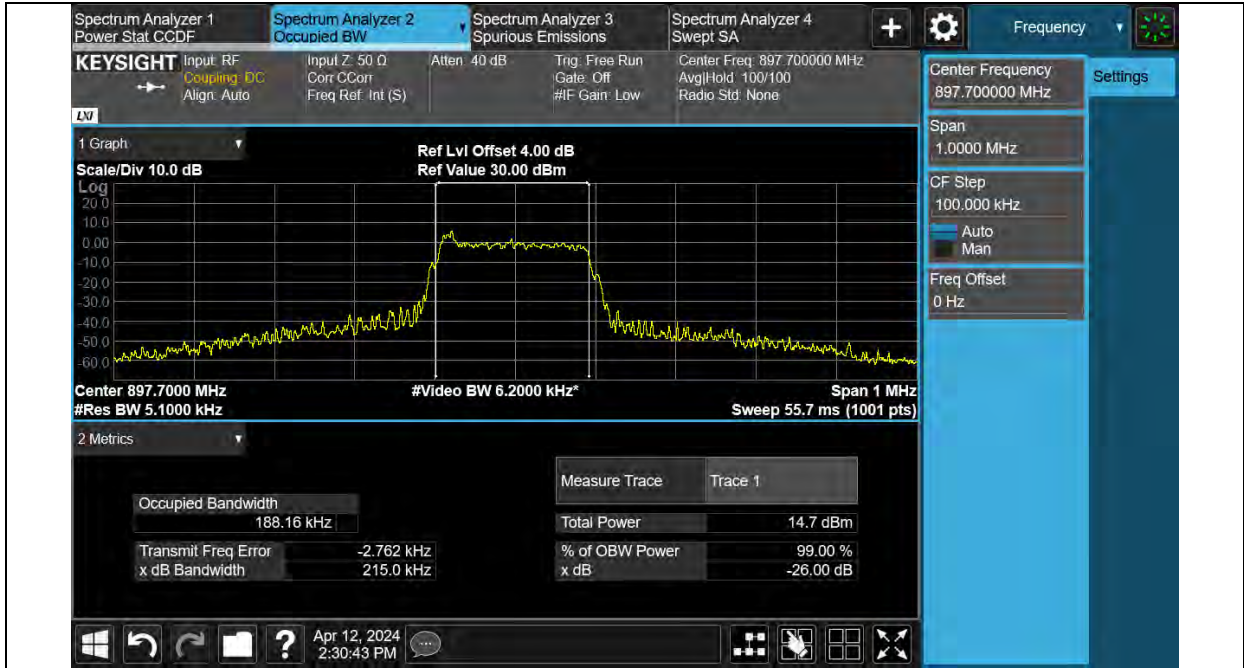


#### Band8-QPSK-15KHz-21627-12RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-15KHz-21640-12RB#0

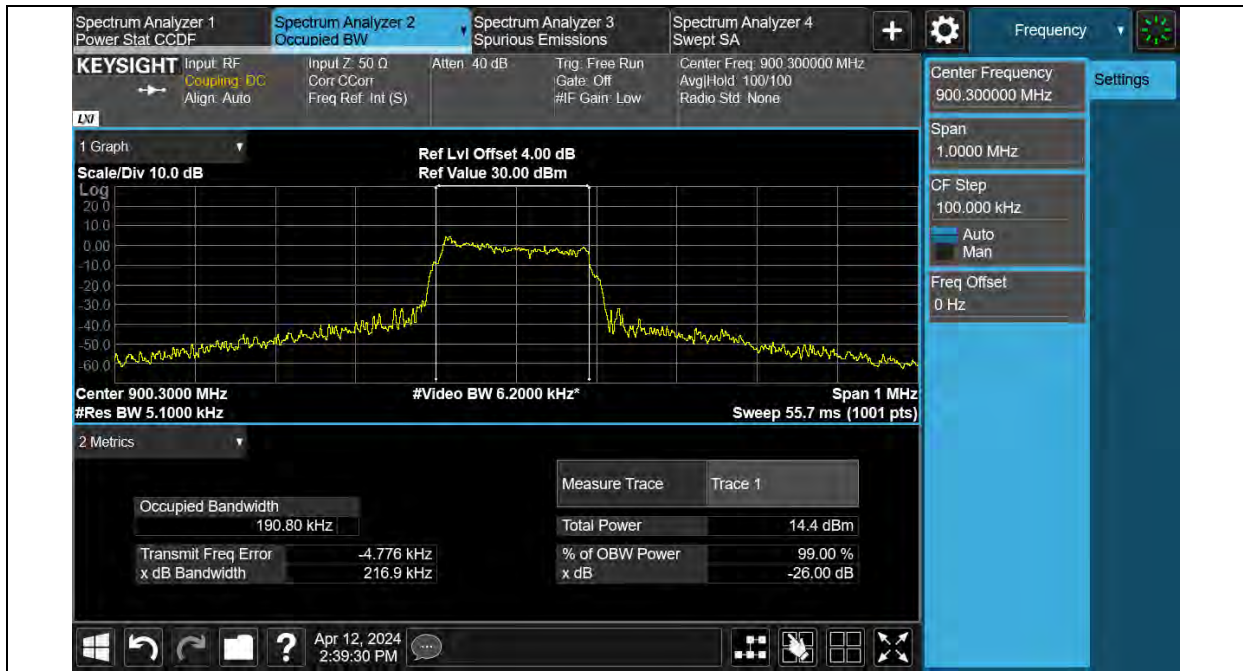


### Band8-QPSK-15KHz-21653-12RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



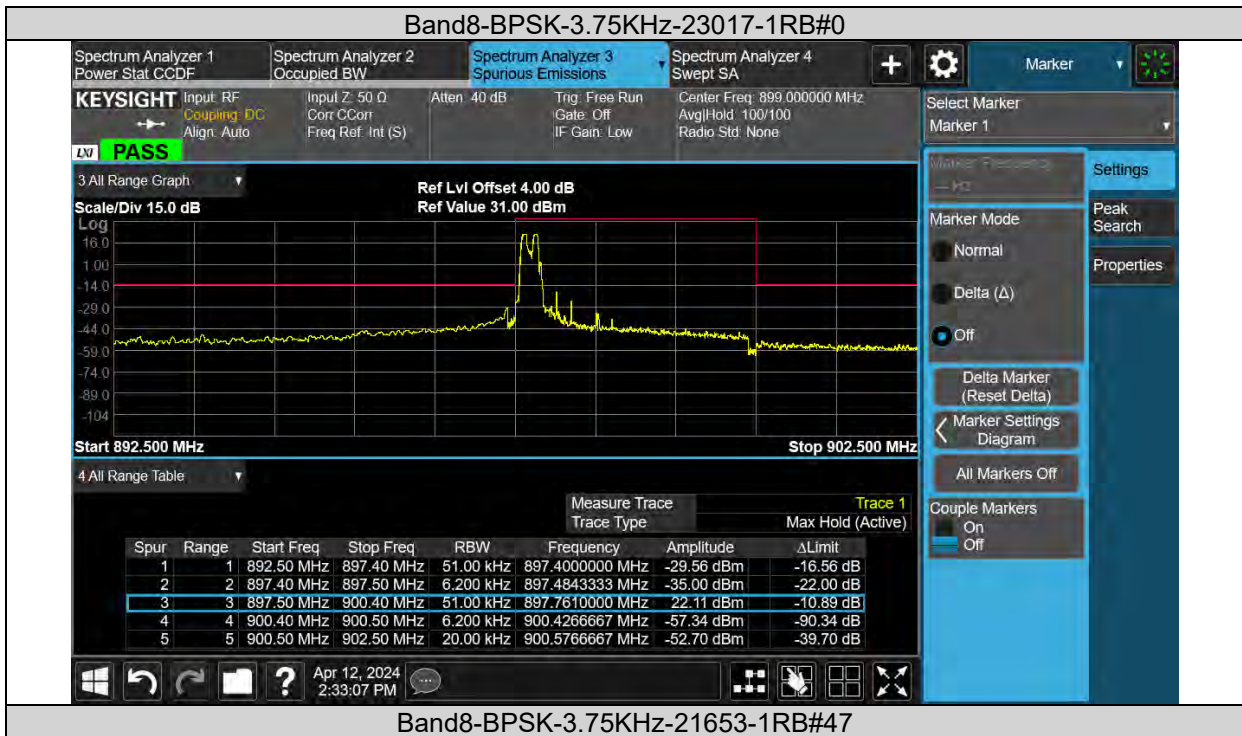


## BAND EDGE

### Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Result(dBm)	Verdict
Band8	BPSK	3.75	21627	1RB#0	See Graph	PASS
Band8	BPSK	3.75	21653	1RB#47	See Graph	PASS
Band8	QPSK	3.75	21627	1RB#0	See Graph	PASS
Band8	QPSK	3.75	21653	1RB#47	See Graph	PASS
Band8	BPSK	15	21627	1RB#0	See Graph	PASS
Band8	BPSK	15	21653	1RB#11	See Graph	PASS
Band8	QPSK	15	21627	1RB#0	See Graph	PASS
Band8	QPSK	15	21653	1RB#11	See Graph	PASS
Band8	QPSK	15	21627	12RB#0	See Graph	PASS
Band8	QPSK	15	21653	12RB#0	See Graph	PASS

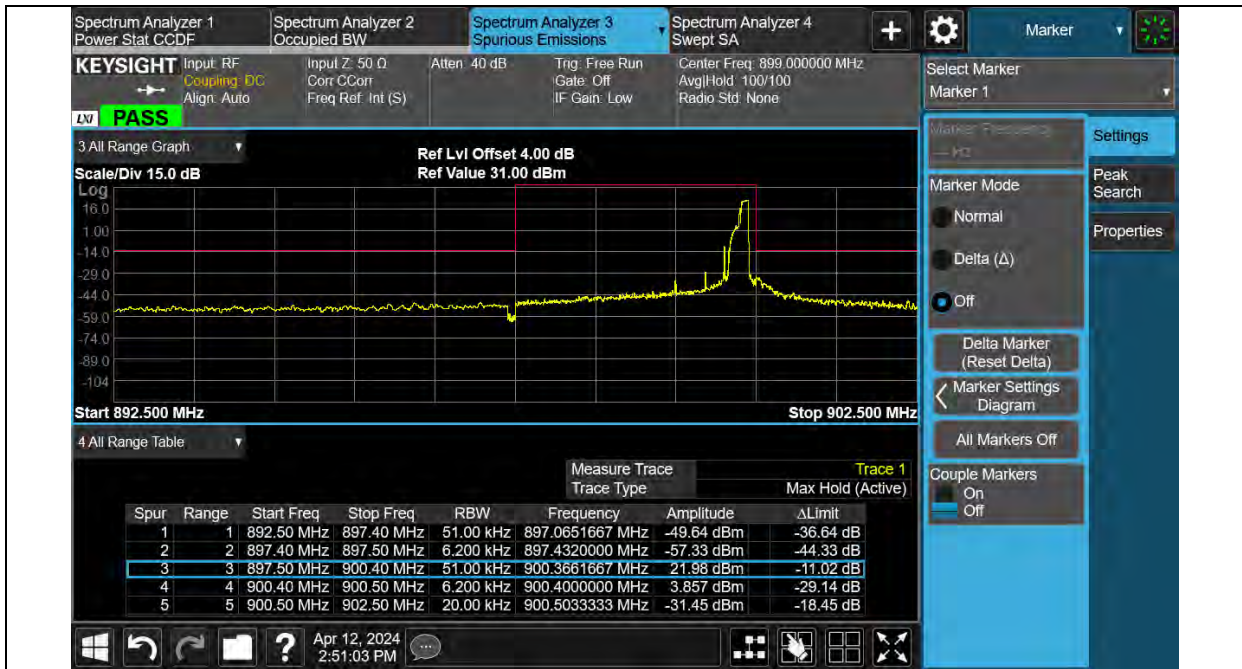
### Test Graphs



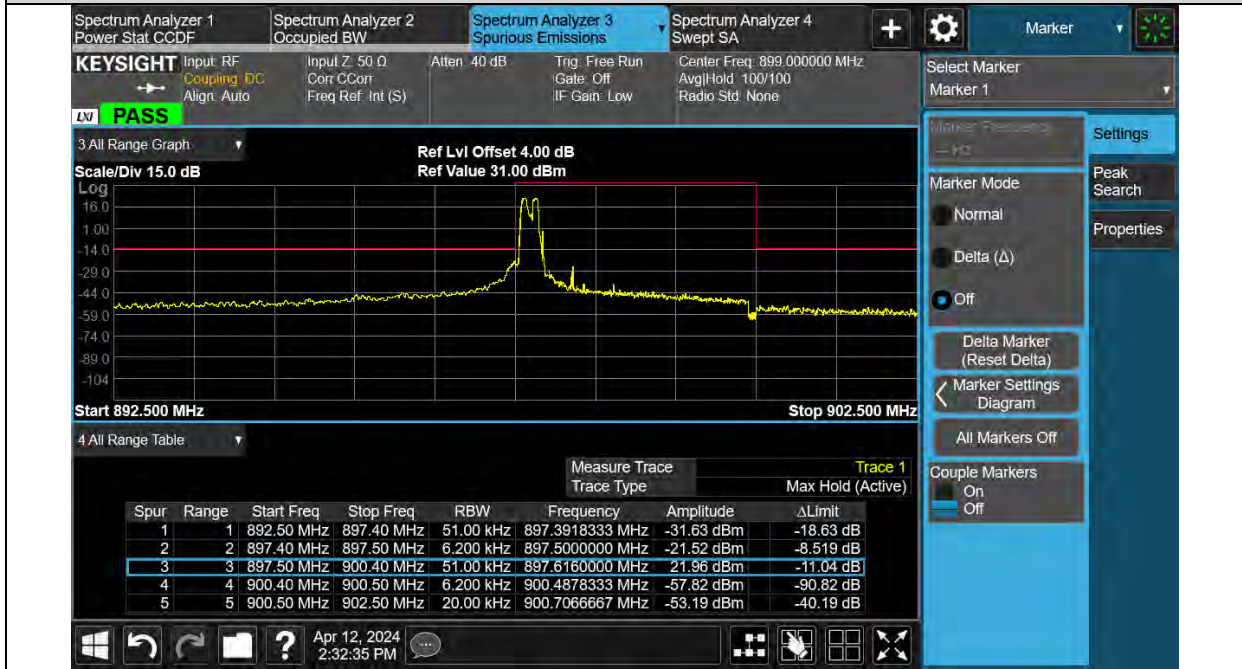


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-3.75KHz-23017-1RB#0



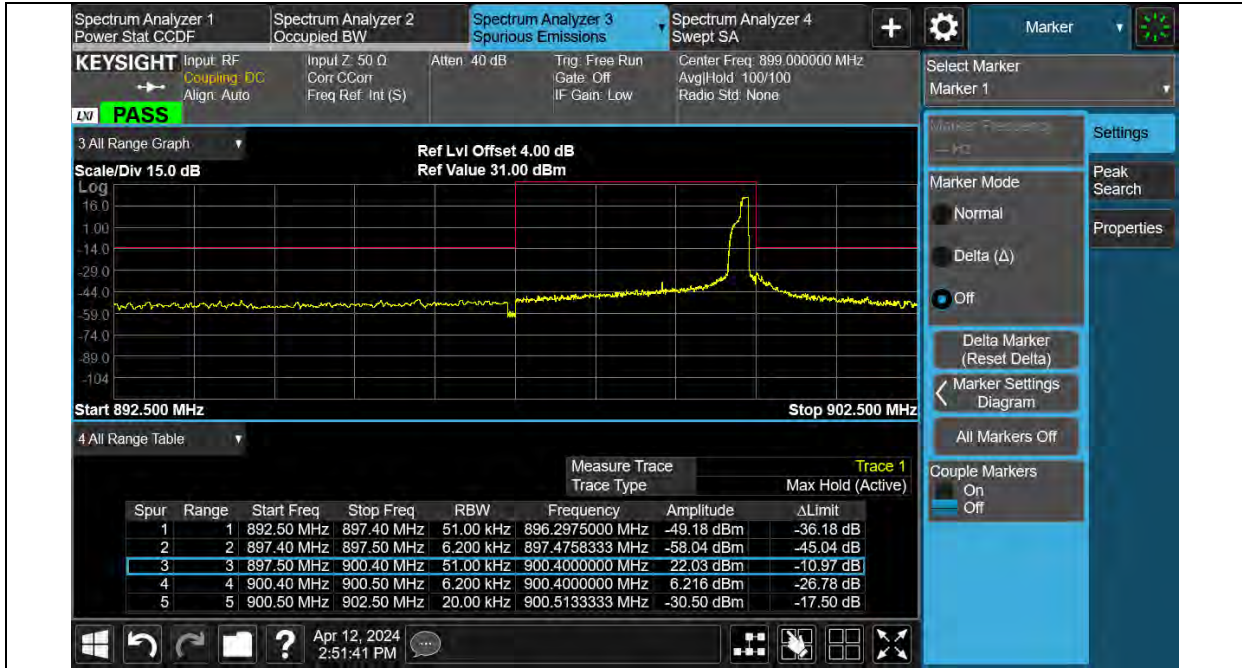
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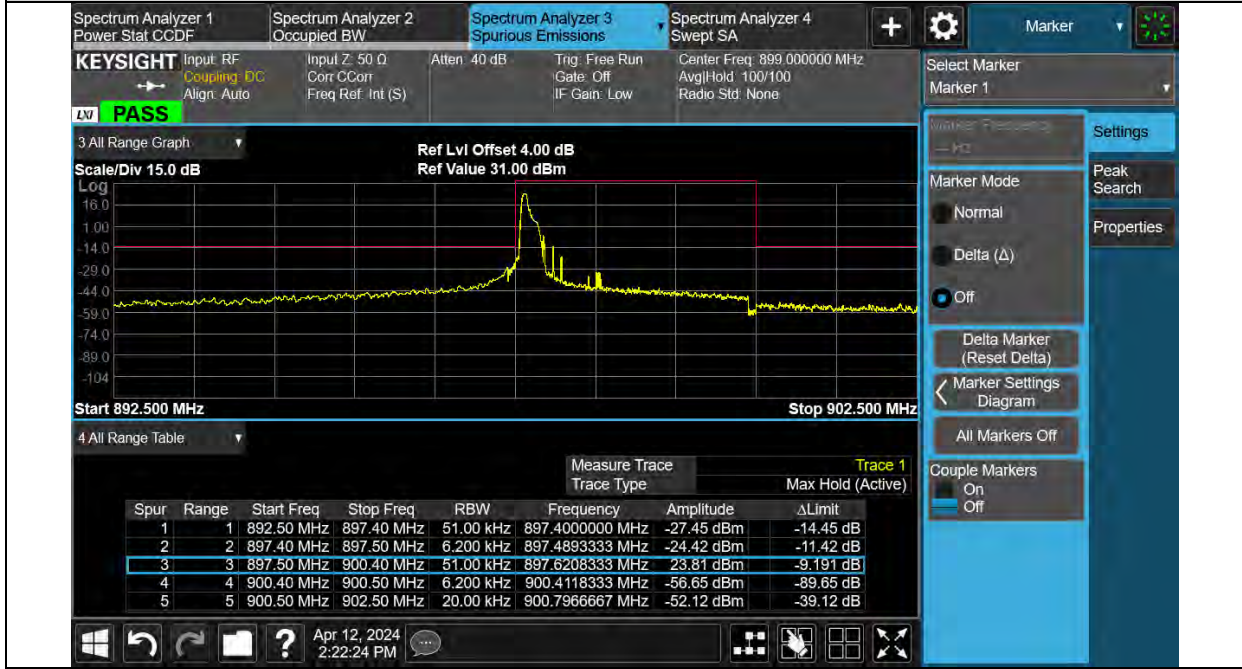


BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



Band8-BPSK-15KHz-23017-1RB#0

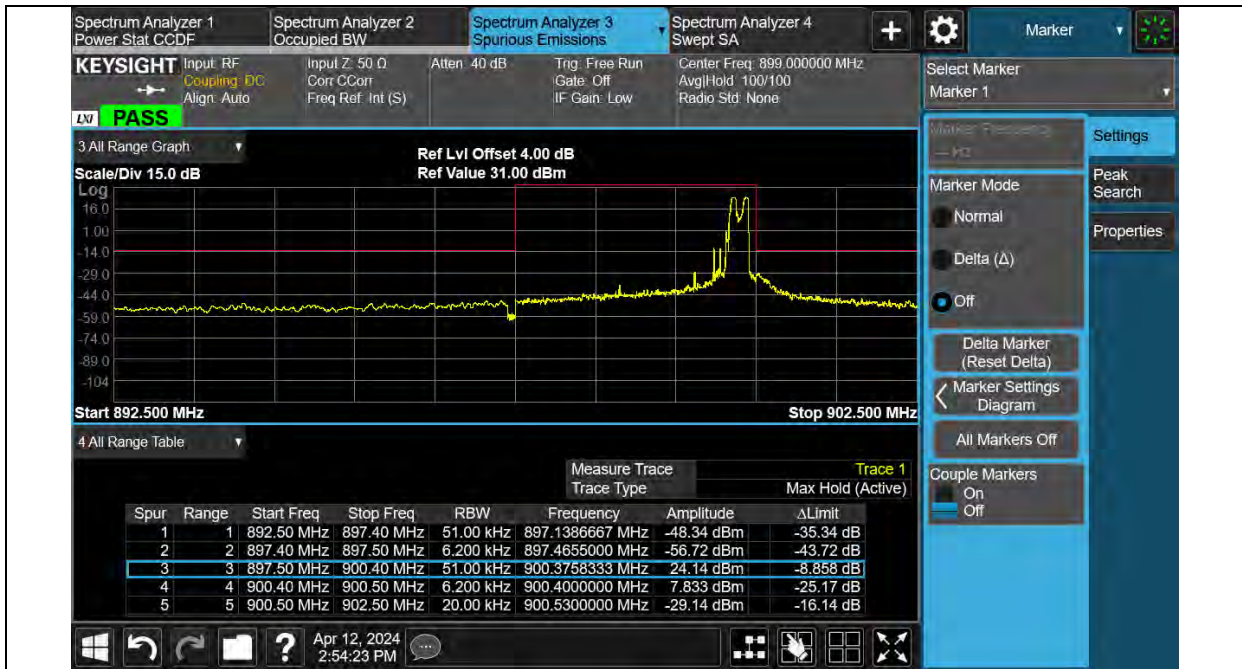


Band8-BPSK-15KHz-21653-1RB#11

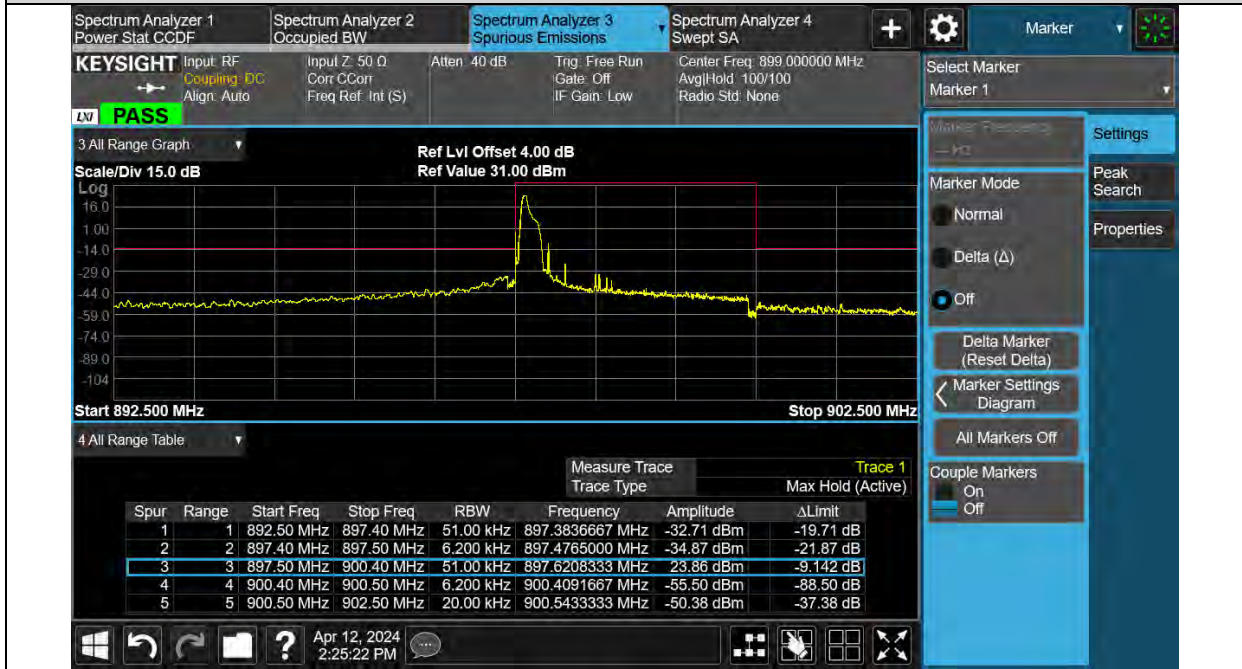


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-15KHz-23017-1RB#0

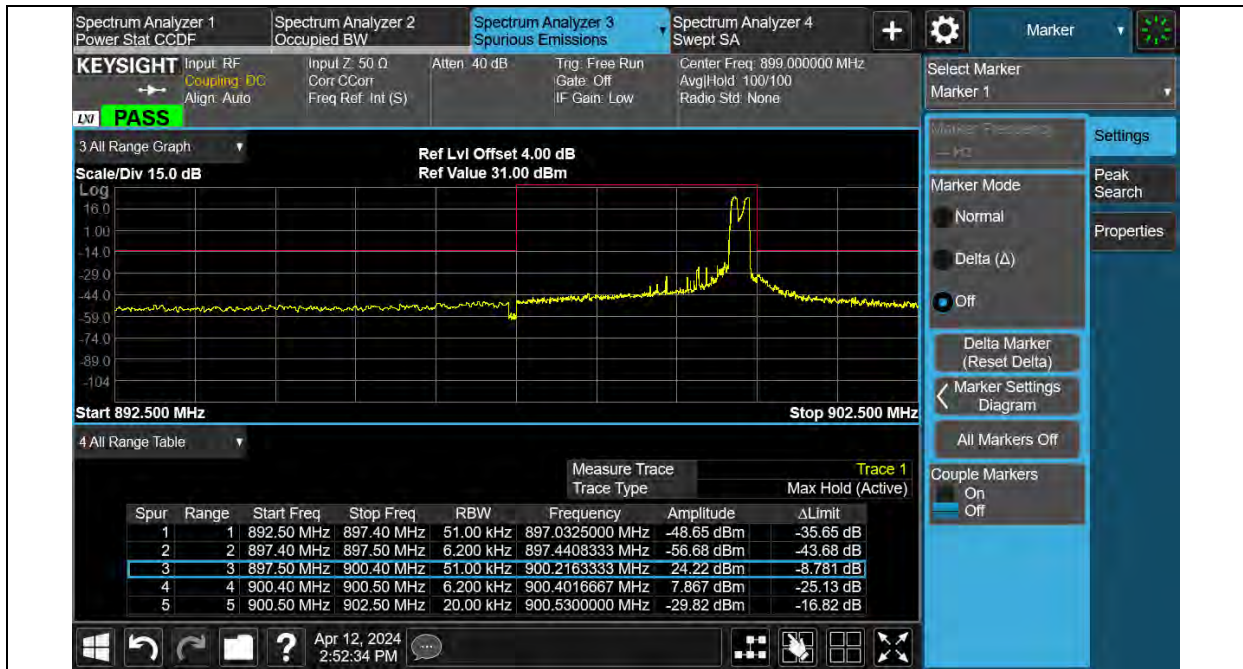


### Band8-QPSK-15KHz-21653-1RB#11

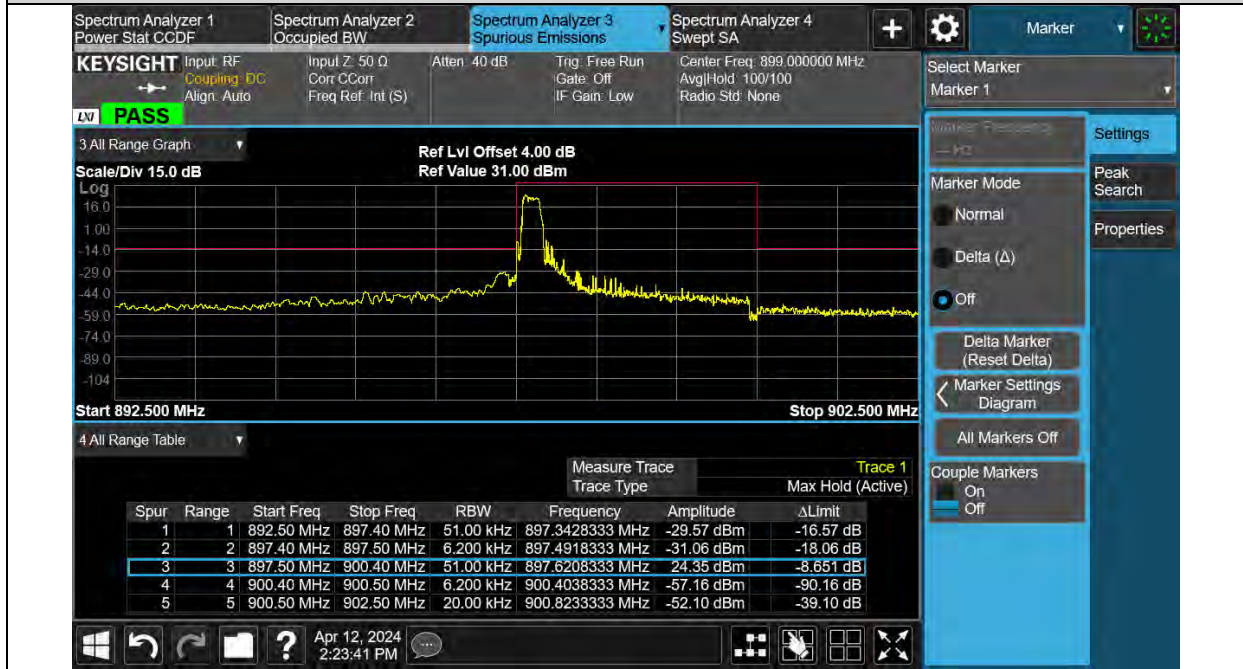


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-15KHz-23017-12RB#0

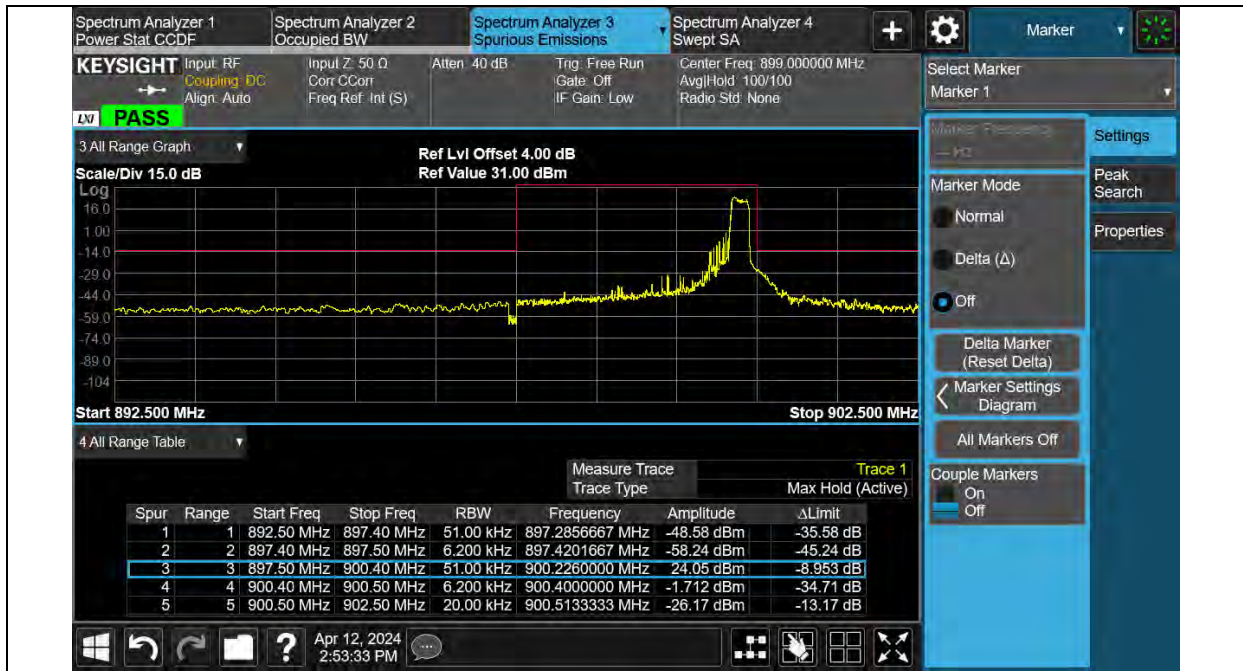


### Band8-QPSK-15KHz-21653-12RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03





### CONDUCTED SPURIOUS EMISSION

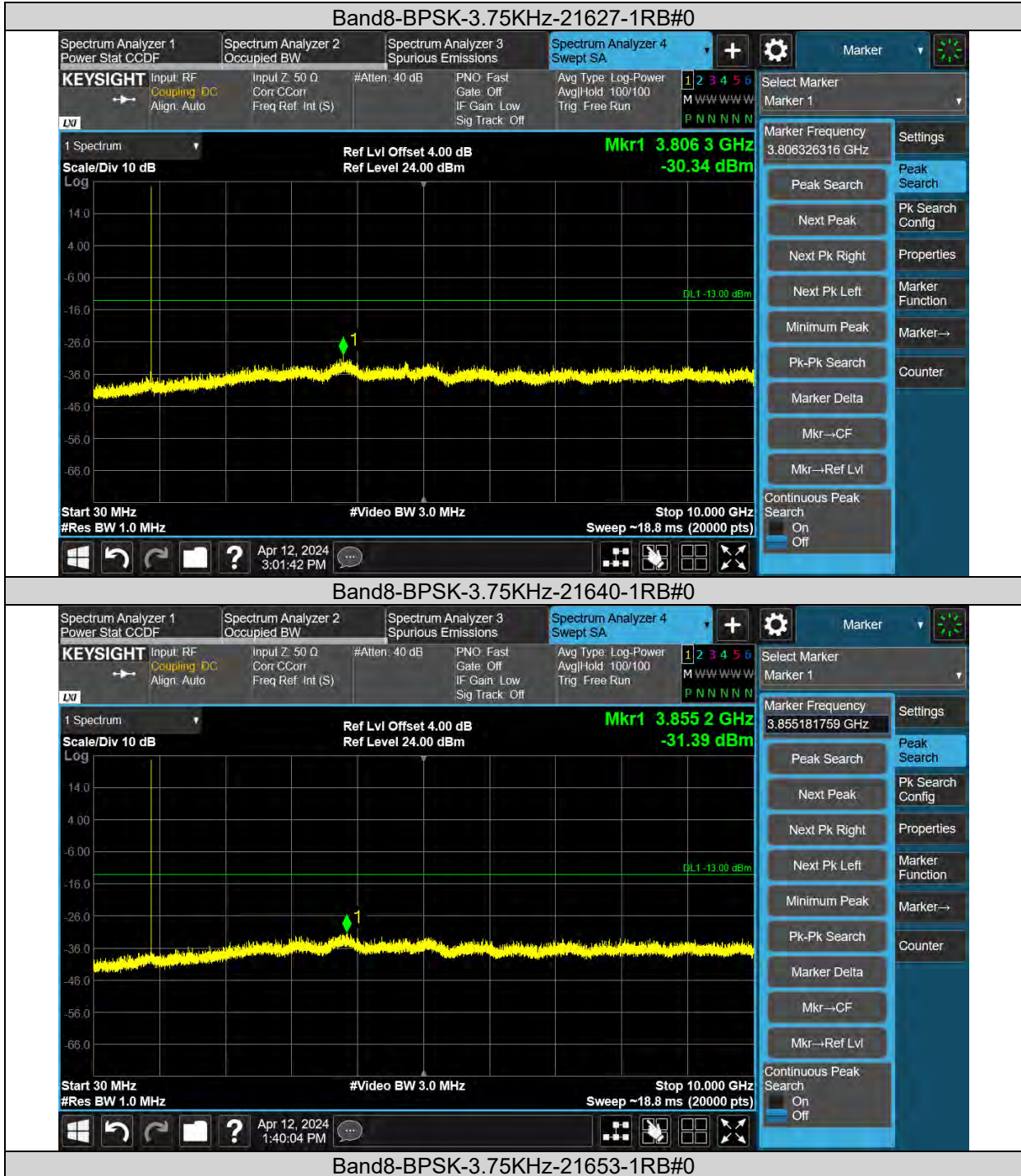
#### Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Frequency Range	Result (dBm)	Verdict
Band8	BPSK	3.75	21627	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	BPSK	3.75	21640	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	BPSK	3.75	21653	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	3.75	21627	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	3.75	21640	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	3.75	21653	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	BPSK	15	21627	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	BPSK	15	21640	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	BPSK	15	21653	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	15	21627	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	15	21640	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	15	21653	1RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	15	21627	12RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	15	21640	12RB#0	Range:30M~10000M	See Graph	PASS
Band8	QPSK	15	21653	12RB#0	Range:30M~10000M	See Graph	PASS



Test Report No.: W7L-240204W001RF03

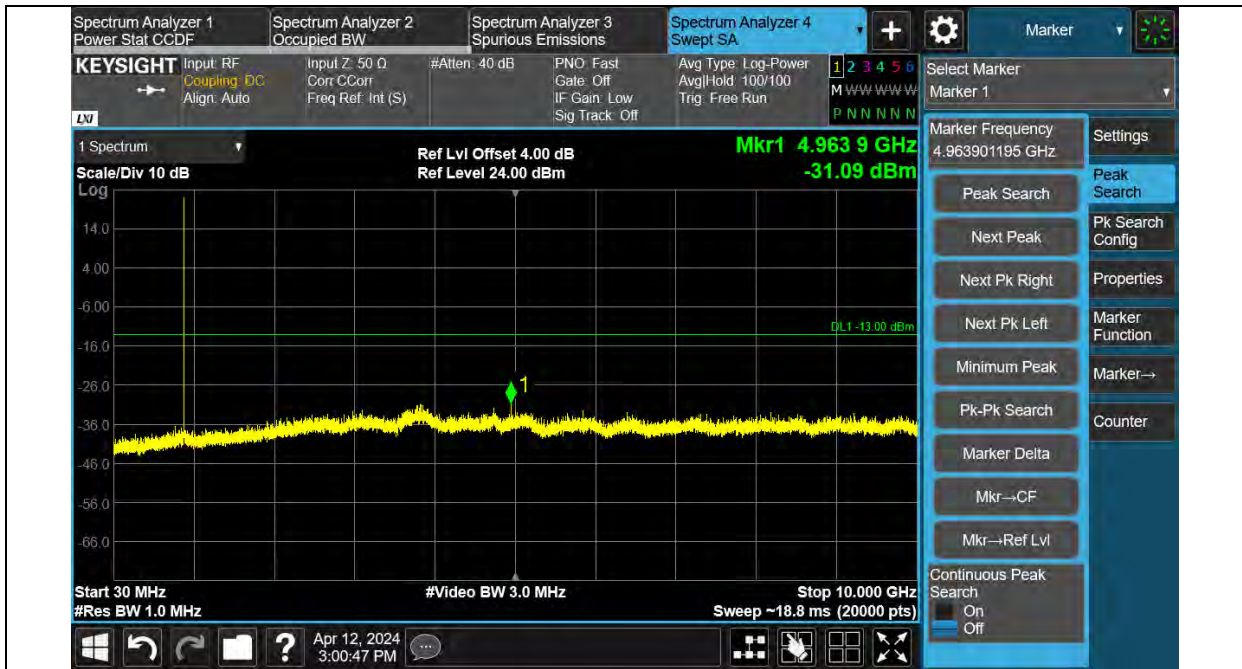
### Test Graphs



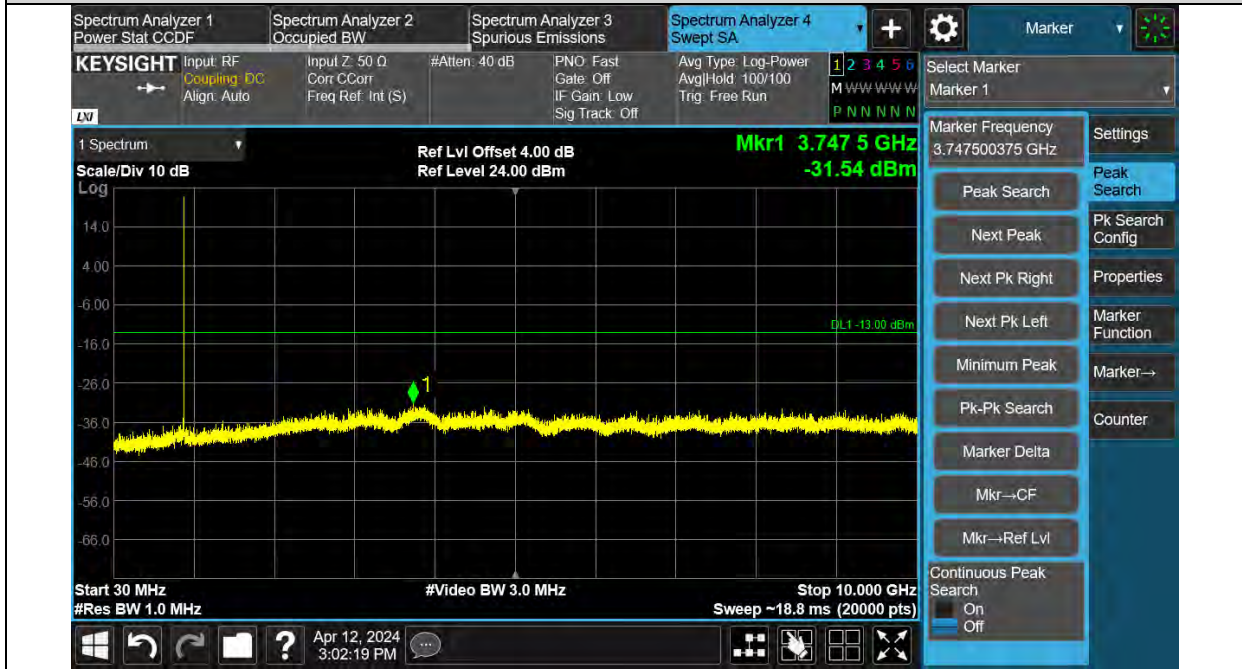


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-3.75KHz-21627-1RB#0

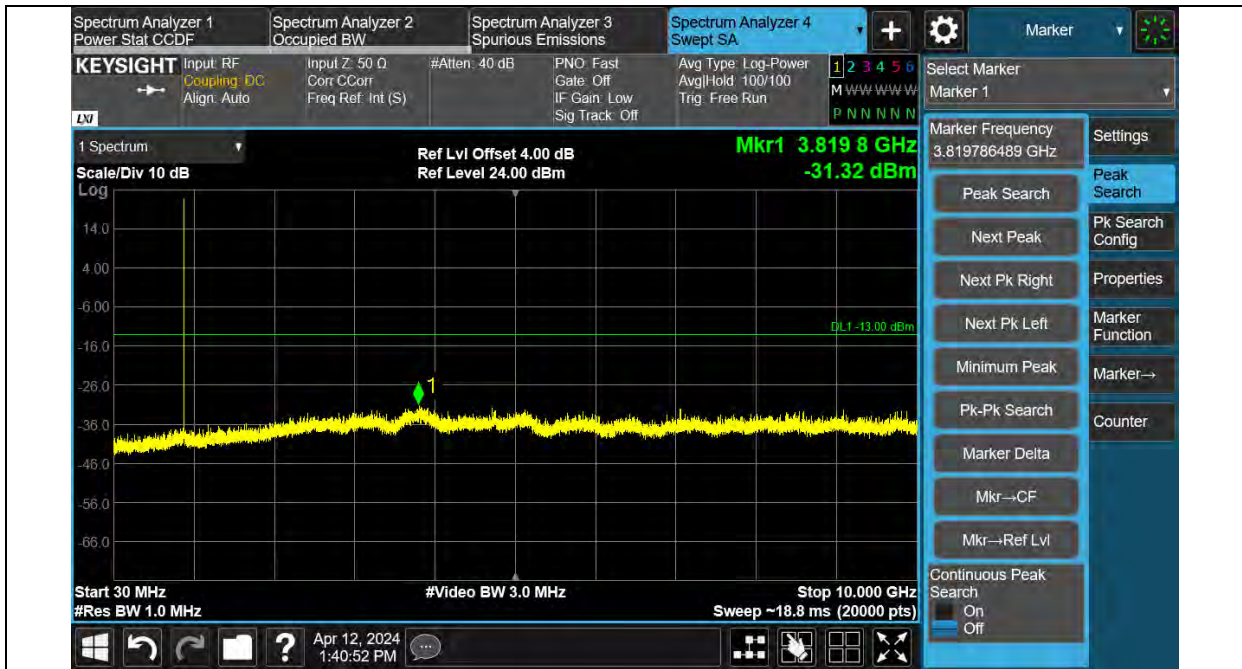


### Band8-QPSK-3.75KHz-21640-1RB#0

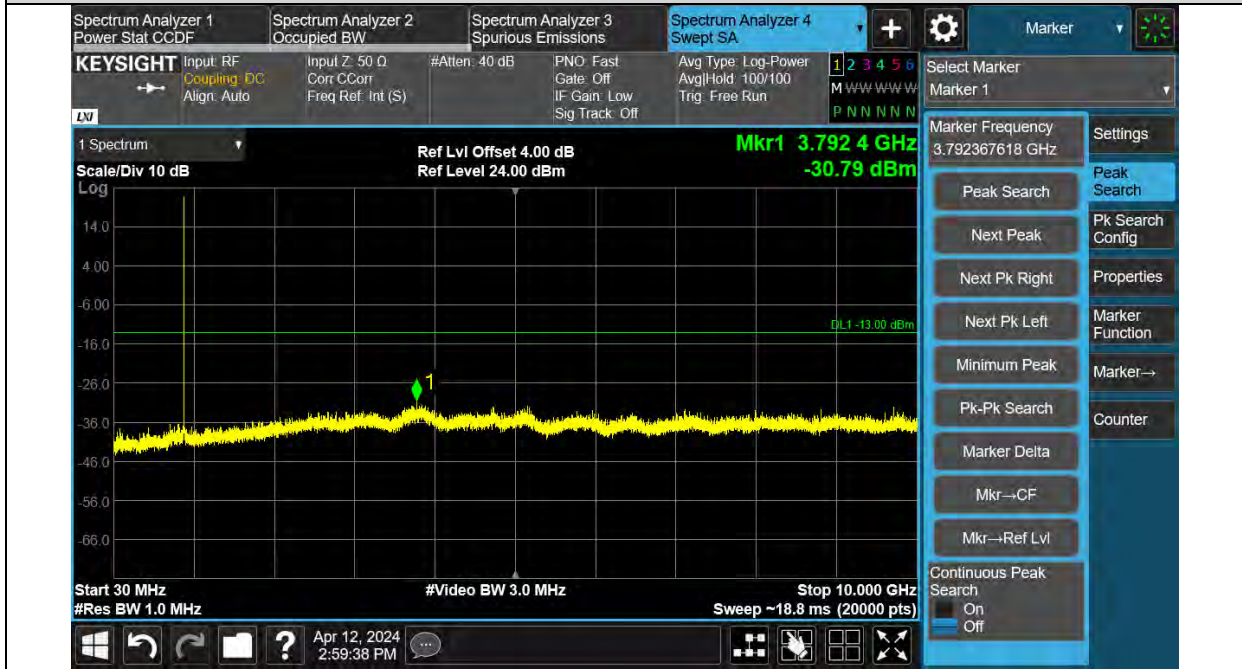


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-3.75KHz-21653-1RB#0



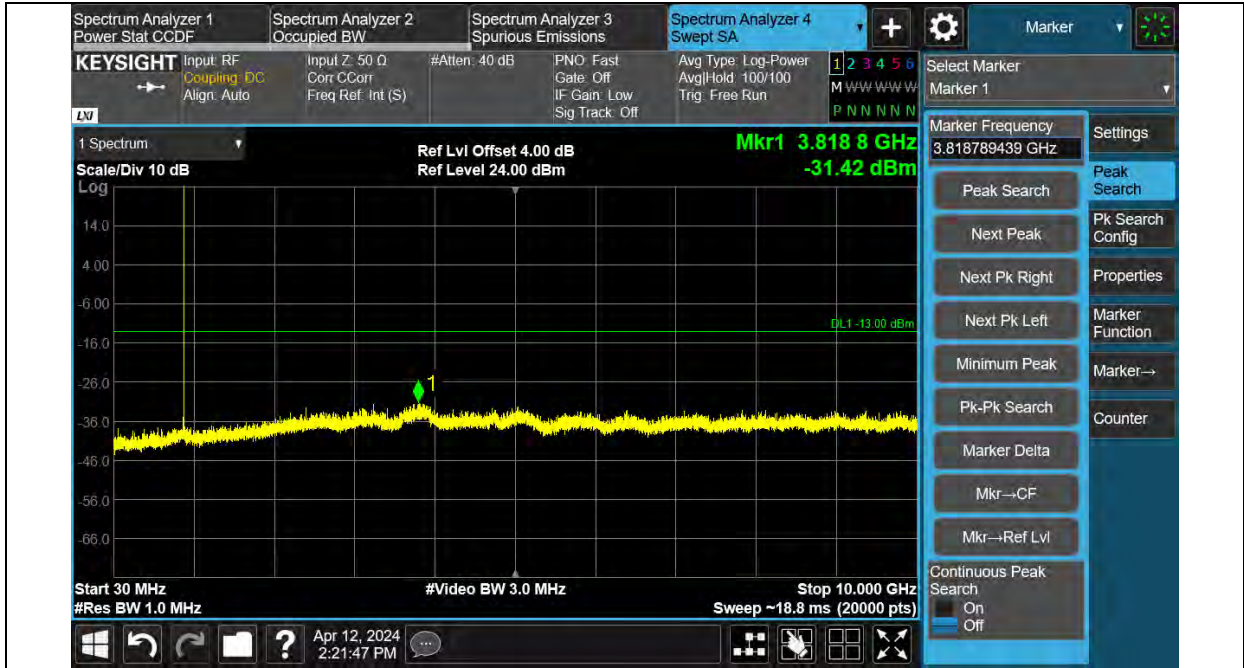
### Band8-BPSK-15KHz-21627-1RB#0



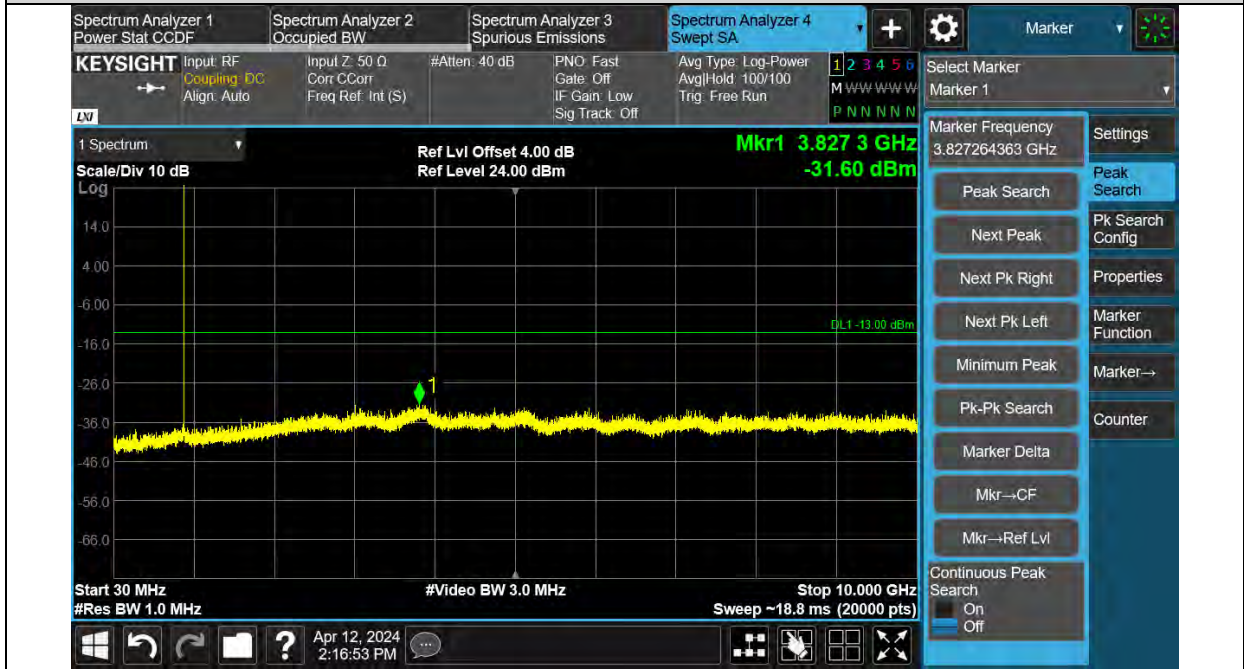


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



Band8-BPSK-15KHz-21640-1RB#0

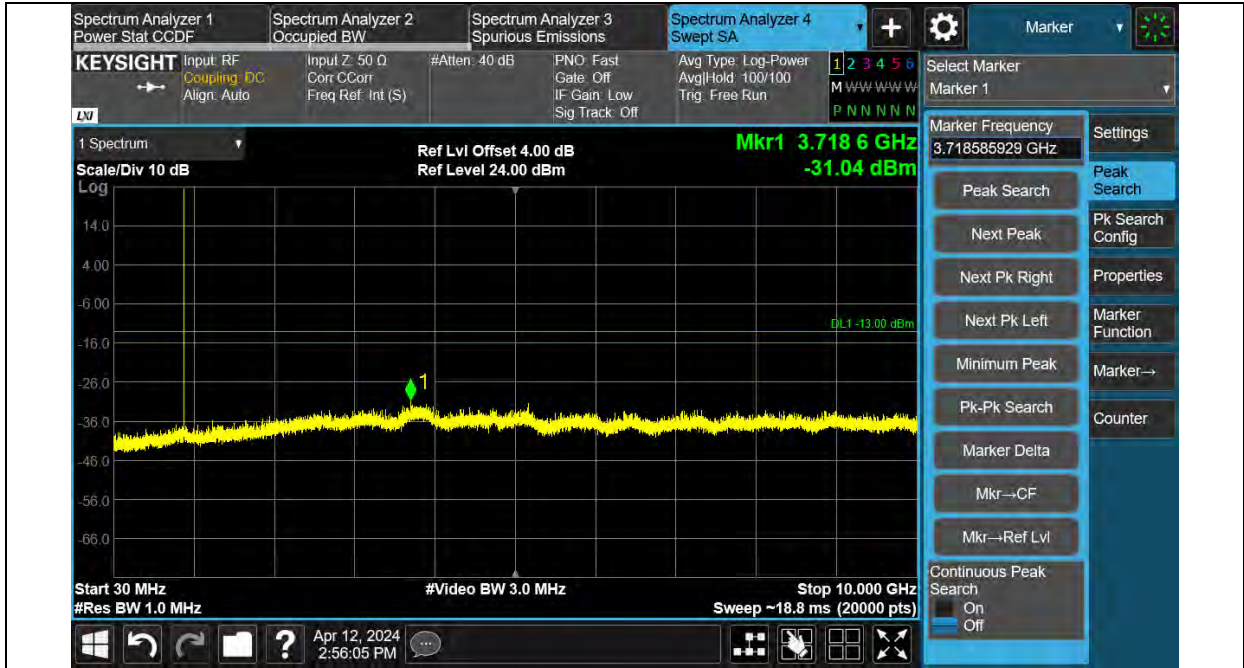


Band8-BPSK-15KHz-21653-1RB#0



BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



Band8-QPSK-15KHz-21627-1RB#0

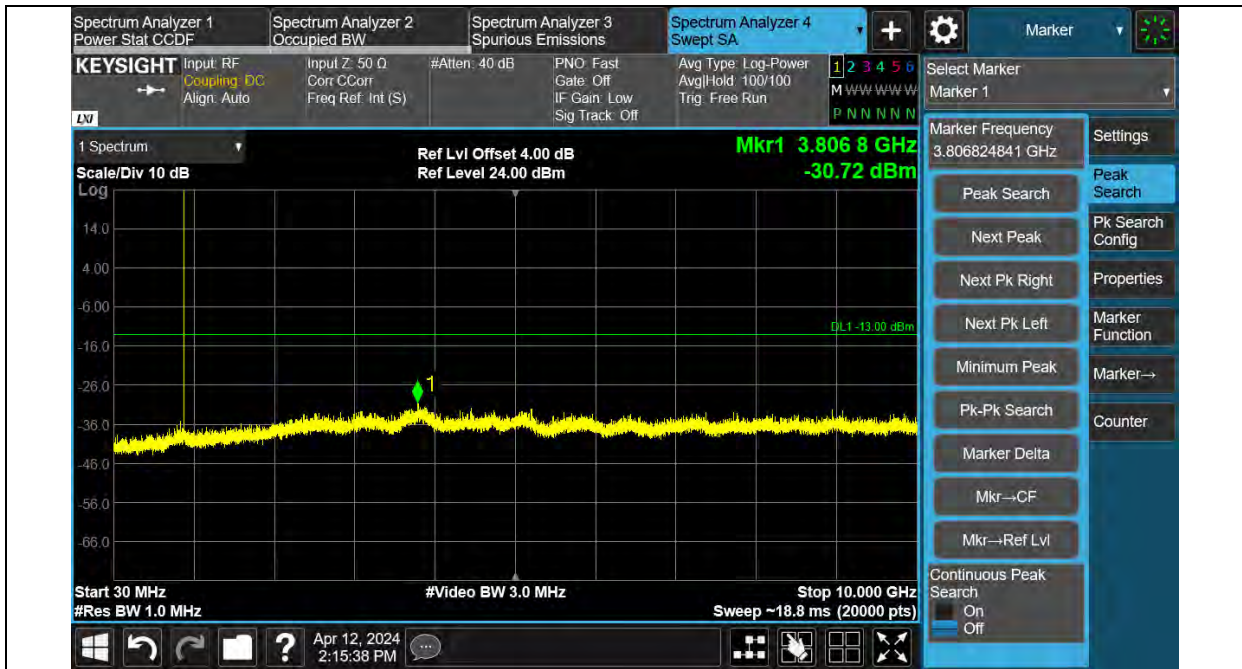


Band8-QPSK-15KHz-21640-1RB#0

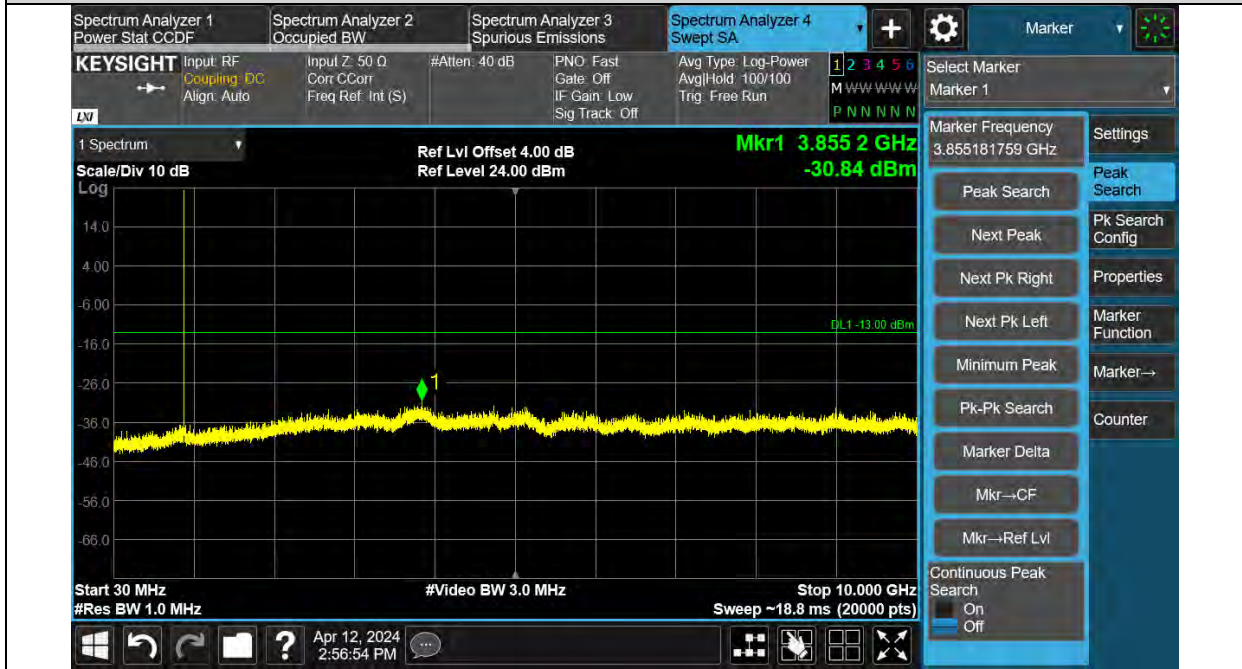


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-15KHz-21653-1RB#0

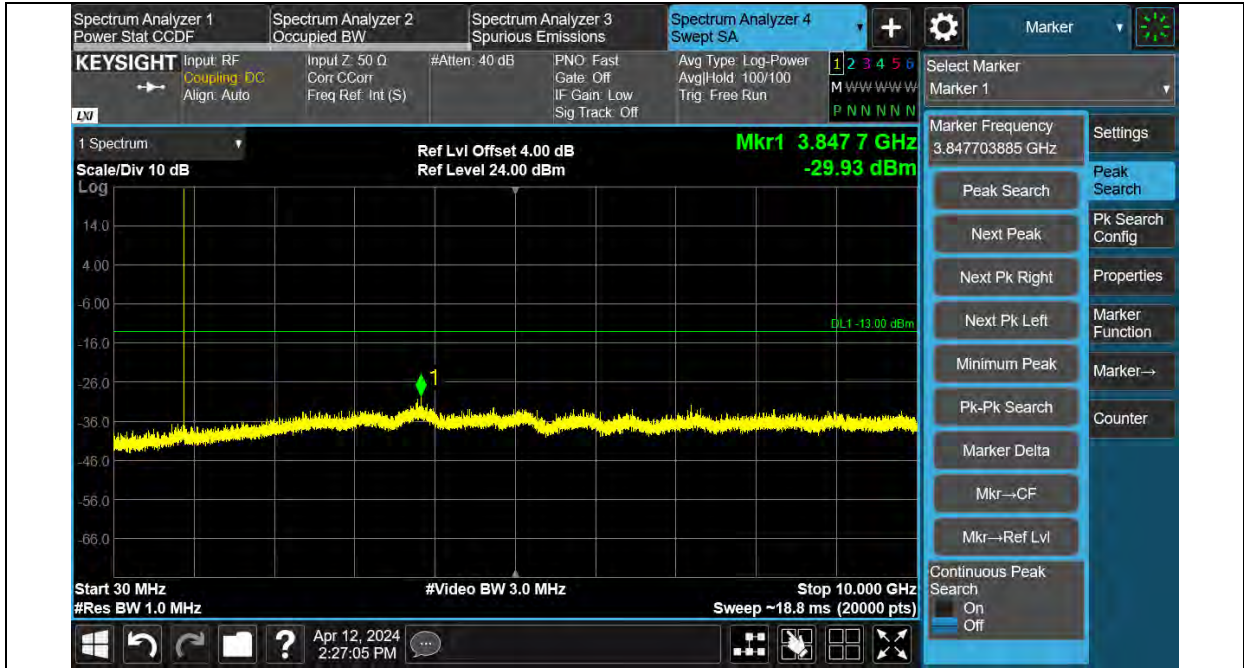


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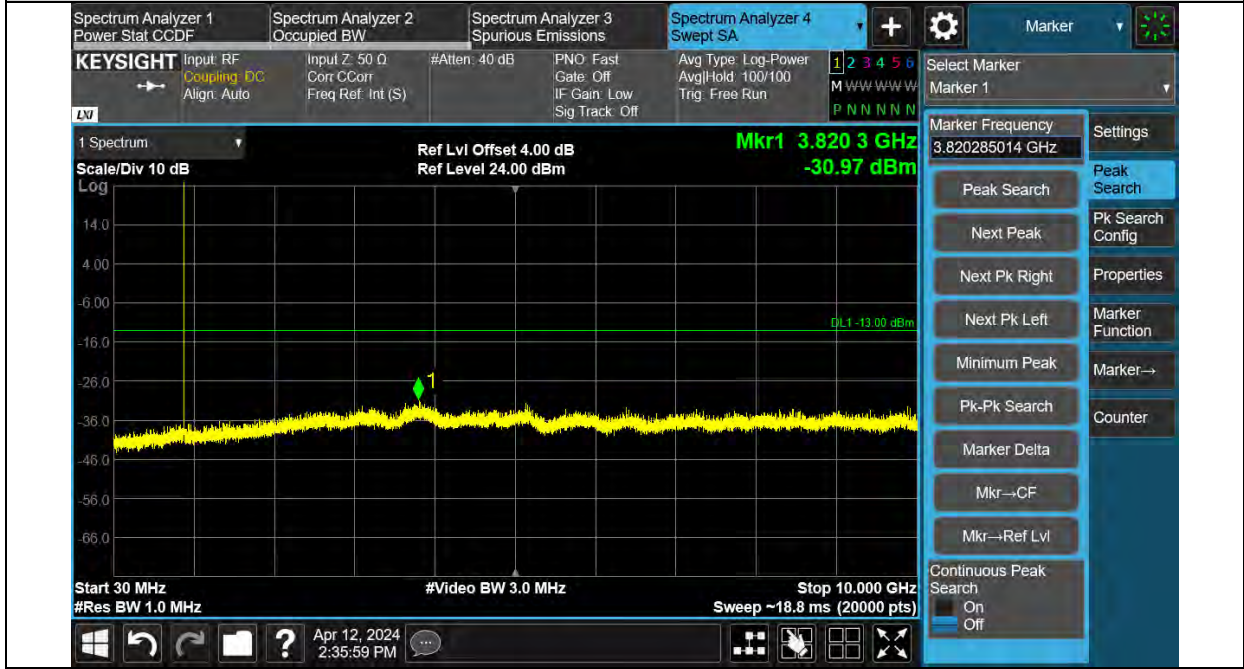


BUREAU VERITAS

### Test Report No.: W7L-240204W001RF03



### Band8-QPSK-15KHz-21640-12RB#0

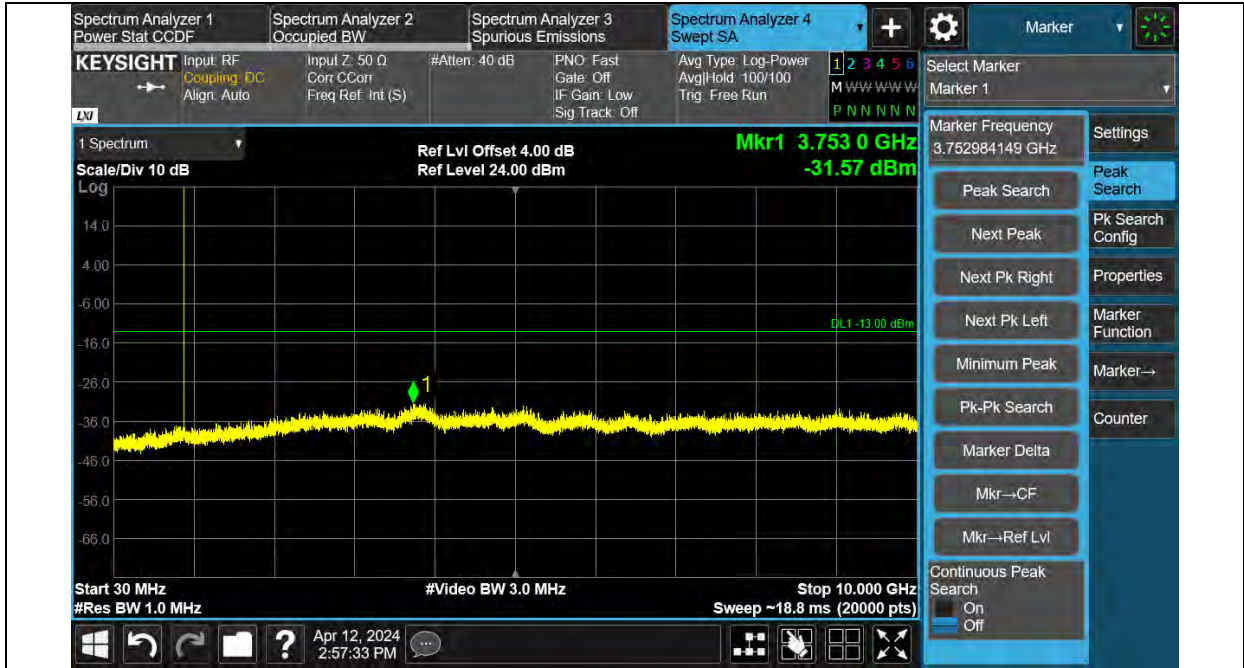


### Band8-QPSK-15KHz-21653-12RB#0



BUREAU VERITAS

Test Report No.: W7L-240204W001RF03



## FREQUENCY STABILITY

### Test Result

Voltage								
Band	Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band8	QPSK	21640	VL	NT	9.26	0.031828	±2.5	PASS
Band8	QPSK	21640	VN	NT	24.35	0.031238	±2.5	PASS
Band8	QPSK	21640	VH	NT	25.69	0.032957	±2.5	PASS
Band8	BPSK	21640	VL	NT	33.93	0.043389	±2.5	PASS
Band8	BPSK	21640	VN	NT	13.76	0.017596	±2.5	PASS
Band8	BPSK	21640	VH	NT	21.76	0.027826	±2.5	PASS

Temperature								
Band	Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band8	QPSK	21640	NV	-30	1.7	0.002174	±2.5	PASS
Band8	QPSK	21640	NV	-20	4.6	0.005882	±2.5	PASS
Band8	QPSK	21640	NV	-10	-4.9	-0.006266	±2.5	PASS
Band8	QPSK	21640	NV	0	-21.4	-0.027366	±2.5	PASS
Band8	QPSK	21640	NV	10	10.6	0.013555	±2.5	PASS
Band8	QPSK	21640	NV	20	7.2	0.009207	±2.5	PASS
Band8	QPSK	21640	NV	30	6.4	0.008184	±2.5	PASS
Band8	QPSK	21640	NV	40	24.3	0.031074	±2.5	PASS
Band8	QPSK	21640	NV	50	2.2	0.002813	±2.5	PASS
Band8	BPSK	21640	NV	-30	-11.2	-0.014322	±2.5	PASS
Band8	BPSK	21640	NV	-20	14.6	0.018670	±2.5	PASS
Band8	BPSK	21640	NV	-10	-1.7	-0.002174	±2.5	PASS
Band8	BPSK	21640	NV	0	-14.9	-0.019054	±2.5	PASS
Band8	BPSK	21640	NV	10	18.3	0.023402	±2.5	PASS
Band8	BPSK	21640	NV	20	24.1	0.030818	±2.5	PASS
Band8	BPSK	21640	NV	30	18.5	0.023657	±2.5	PASS
Band8	BPSK	21640	NV	40	-18.1	-0.023146	±2.5	PASS
Band8	BPSK	21640	NV	50	-4.6	-0.005882	±2.5	PASS

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