



BUREAU
VERITAS

Test Report No.: W7L-P23010024RF06





Test Report No.: W7L-P23010024RF06

FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	-2.32	-0.001355	±2.5	PASS
Band4	1312	VN	NT	-0.09	-0.000053	±2.5	PASS
Band4	1312	VH	NT	2.03	0.001185	±2.5	PASS
Band4	1413	VL	NT	-2.18	-0.001258	±2.5	PASS
Band4	1413	VN	NT	-10.34	-0.005968	±2.5	PASS
Band4	1413	VH	NT	-5.23	-0.003019	±2.5	PASS
Band4	1513	VL	NT	0.70	0.000399	±2.5	PASS
Band4	1513	VN	NT	-4.43	-0.002528	±2.5	PASS
Band4	1513	VH	NT	-1.21	-0.000690	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	0.59	0.000345	±2.5	PASS
Band4	1312	NV	-20	1.52	0.000888	±2.5	PASS
Band4	1312	NV	0	-1.83	-0.001069	±2.5	PASS
Band4	1312	NV	10	0.72	0.000420	±2.5	PASS
Band4	1312	NV	20	-1.4	-0.000818	±2.5	PASS
Band4	1312	NV	30	1.47	0.000860	±2.5	PASS
Band4	1312	NV	40	-0.58	-0.000337	±2.5	PASS
Band4	1312	NV	50	-0.62	-0.000363	±2.5	PASS
Band4	1413	NV	-30	-0.09	-0.000052	±2.5	PASS
Band4	1413	NV	-20	1.67	0.000964	±2.5	PASS
Band4	1413	NV	0	0.54	0.000312	±2.5	PASS
Band4	1413	NV	10	-0.26	-0.000150	±2.5	PASS
Band4	1413	NV	20	-1.27	-0.000733	±2.5	PASS
Band4	1413	NV	30	-0.06	-0.000032	±2.5	PASS
Band4	1413	NV	40	-1.37	-0.000792	±2.5	PASS
Band4	1413	NV	50	0.95	0.000550	±2.5	PASS
Band4	1513	NV	-30	-0.73	-0.000419	±2.5	PASS
Band4	1513	NV	-20	1.60	0.000910	±2.5	PASS
Band4	1513	NV	0	3.39	0.001935	±2.5	PASS
Band4	1513	NV	10	1.59	0.000909	±2.5	PASS
Band4	1513	NV	20	-1.41	-0.000803	±2.5	PASS



**BUREAU
VERITAS**

Test Report No.: W7L-P23010024RF06

Band4	1513	NV	30	3.19	0.001822	±2.5	PASS
Band4	1513	NV	40	1.11	0.000635	±2.5	PASS
Band4	1513	NV	50	-1.34	-0.000762	±2.5	PASS



Test Report No.: W7L-P23010024RF06

LTE BAND4

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	5.48	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.67	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	5.73	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.75	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	5.33	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.57	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	6.31	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.68	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	6.21	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.75	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	6.26	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.60	13	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	6.70	13	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	6.79	13	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	6.82	13	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	6.85	13	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	6.46	13	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	6.74	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	5.61	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.66	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	5.51	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.75	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	5.29	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.64	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	6.49	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.66	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	6.38	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.58	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	6.57	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.64	13	PASS
Band4	3MHz	64QAM	19965	1RB#0	6.93	13	PASS
Band4	3MHz	64QAM	19965	15RB#0	6.70	13	PASS
Band4	3MHz	64QAM	20175	1RB#0	6.68	13	PASS
Band4	3MHz	64QAM	20175	15RB#0	6.85	13	PASS
Band4	3MHz	64QAM	20385	1RB#0	6.81	13	PASS
Band4	3MHz	64QAM	20385	15RB#0	6.64	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	5.42	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.72	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	5.62	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.66	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	5.39	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.65	13	PASS



BUREAU
VERITAS

Test Report No.: W7L-P23010024RF06

Band4	5MHz	16QAM	19975	1RB#0	6.64	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.41	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	6.70	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.57	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	6.57	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.35	13	PASS
Band4	5MHz	64QAM	19975	1RB#0	6.51	13	PASS
Band4	5MHz	64QAM	19975	25RB#0	6.71	13	PASS
Band4	5MHz	64QAM	20175	1RB#0	6.78	13	PASS
Band4	5MHz	64QAM	20175	25RB#0	6.84	13	PASS
Band4	5MHz	64QAM	20375	1RB#0	6.49	13	PASS
Band4	5MHz	64QAM	20375	25RB#0	6.63	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	5.48	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.80	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	5.51	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.79	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	5.40	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.68	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	6.62	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	6.49	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	6.29	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.54	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	6.20	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	6.42	13	PASS
Band4	10MHz	64QAM	20000	1RB#0	6.89	13	PASS
Band4	10MHz	64QAM	20000	50RB#0	6.73	13	PASS
Band4	10MHz	64QAM	20175	1RB#0	6.75	13	PASS
Band4	10MHz	64QAM	20175	50RB#0	6.82	13	PASS
Band4	10MHz	64QAM	20350	1RB#0	6.70	13	PASS
Band4	10MHz	64QAM	20350	50RB#0	6.65	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	5.47	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	6.05	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	5.60	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	6.06	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	5.59	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.98	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	6.55	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.54	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	6.62	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.57	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	6.93	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.45	13	PASS
Band4	15MHz	64QAM	20025	1RB#0	6.91	13	PASS
Band4	15MHz	64QAM	20025	75RB#0	6.71	13	PASS
Band4	15MHz	64QAM	20175	1RB#0	6.88	13	PASS
Band4	15MHz	64QAM	20175	75RB#0	6.80	13	PASS
Band4	15MHz	64QAM	20325	1RB#0	6.44	13	PASS
Band4	15MHz	64QAM	20325	75RB#0	6.67	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	5.52	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.71	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	5.85	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.80	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	5.64	13	PASS

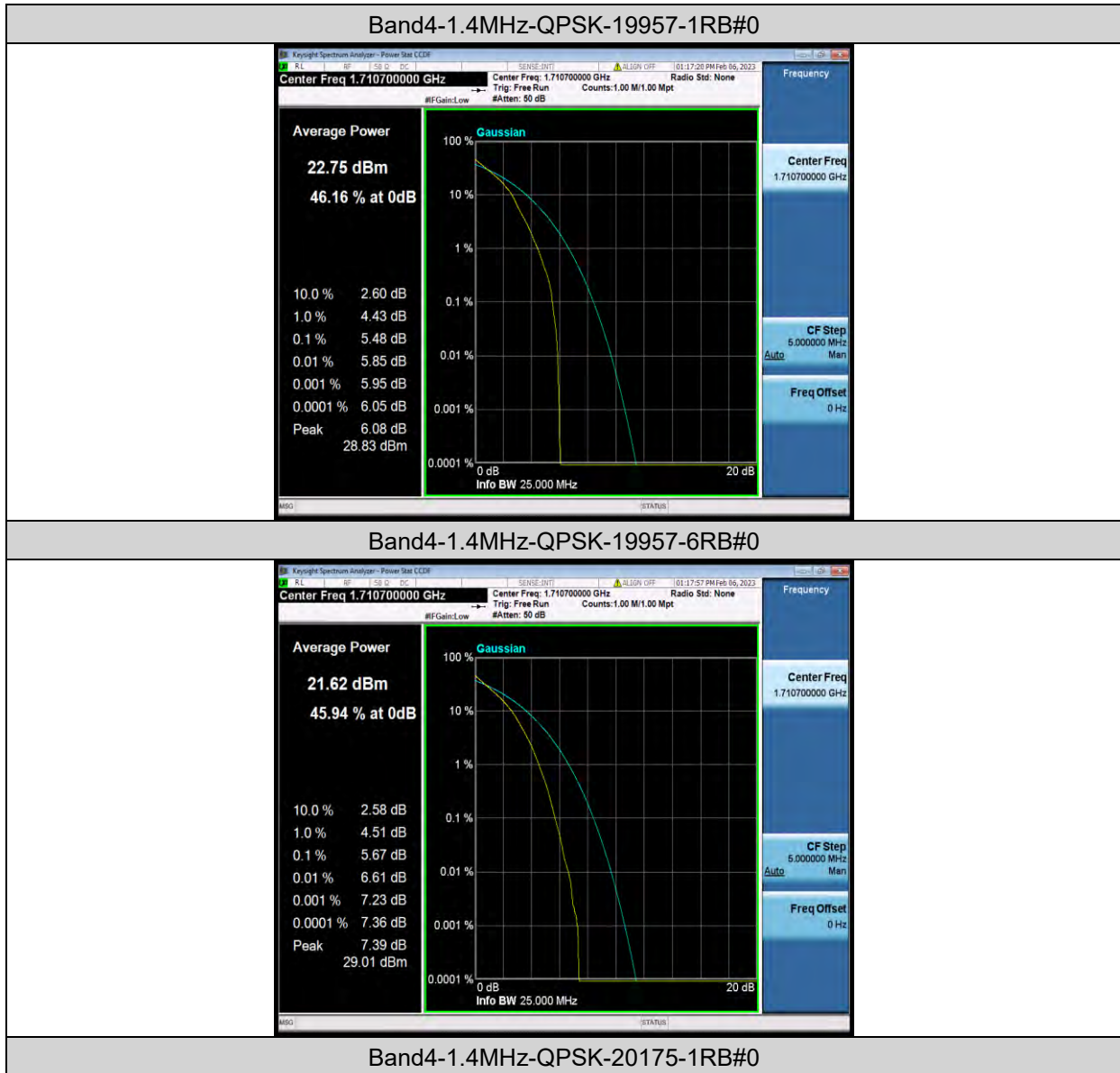


**BUREAU
VERITAS**

Test Report No.: W7L-P23010024RF06

Band4	20MHz	QPSK	20300	100RB#0	5.76	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	6.63	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.45	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	6.48	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.50	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	7.19	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.50	13	PASS
Band4	20MHz	64QAM	20050	1RB#0	6.54	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.75	13	PASS
Band4	20MHz	64QAM	20175	1RB#0	6.32	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.78	13	PASS
Band4	20MHz	64QAM	20300	1RB#0	6.64	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.73	13	PASS

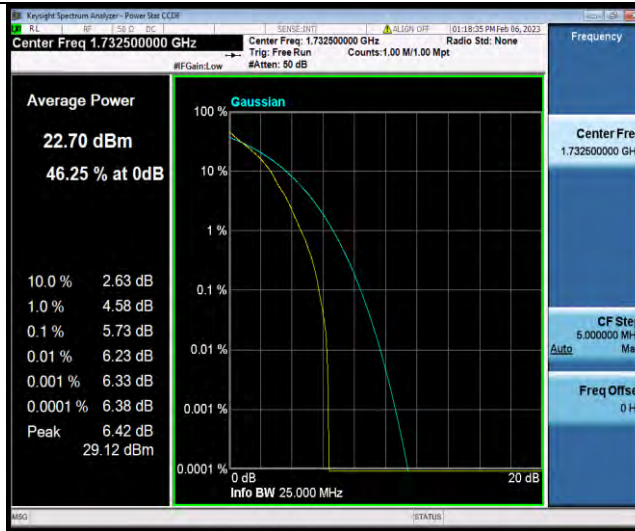
Test Graphs



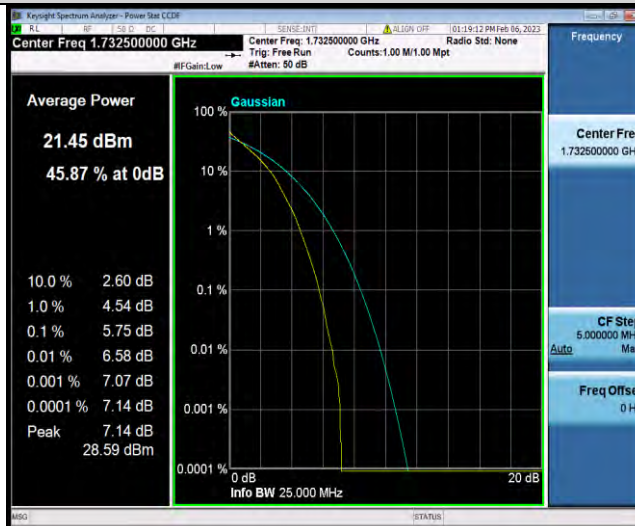


BUREAU VERITAS

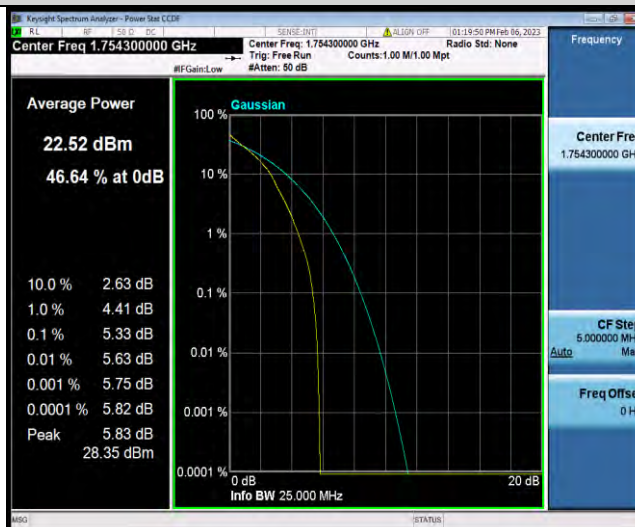
Test Report No.: W7L-P23010024RF06



Band4-1.4MHz-QPSK-20175-6RB#0



Band4-1.4MHz-QPSK-20393-1RB#0

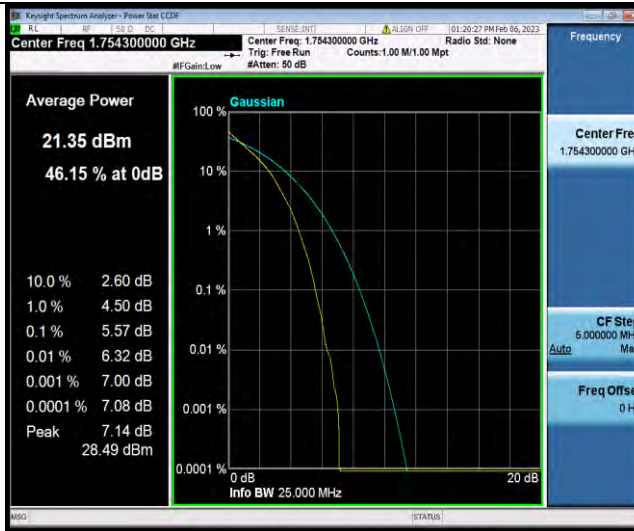


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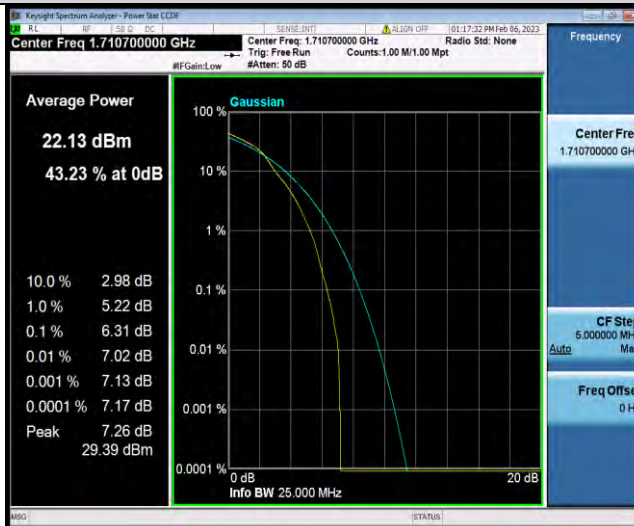


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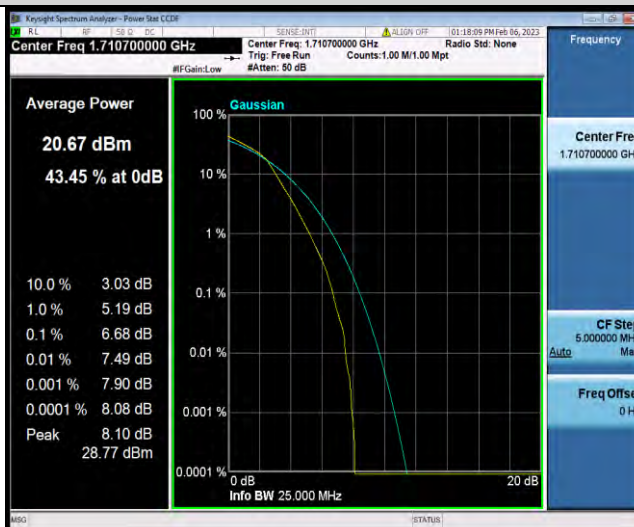
Test Report No.: W7L-P23010024RF06



Band4-1.4MHz-16QAM-19957-1RB#0



Band4-1.4MHz-16QAM-19957-6RB#0

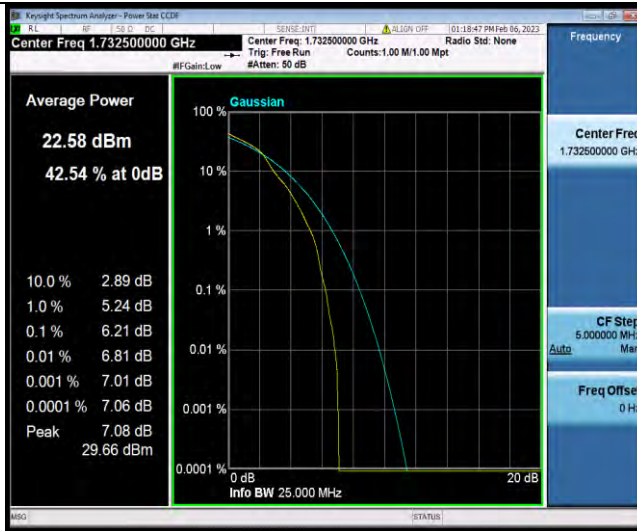


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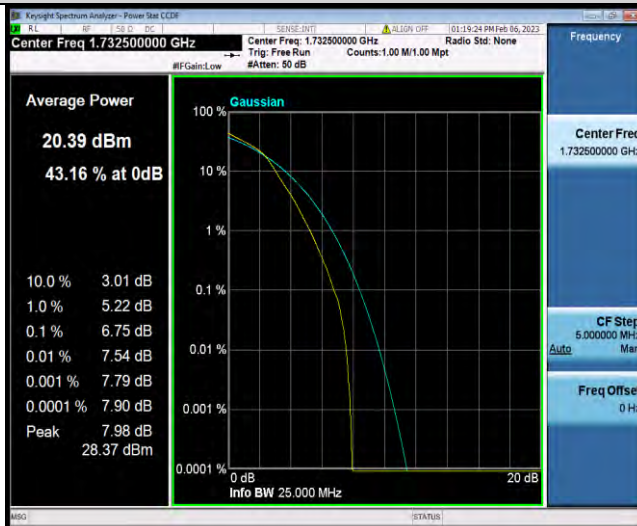


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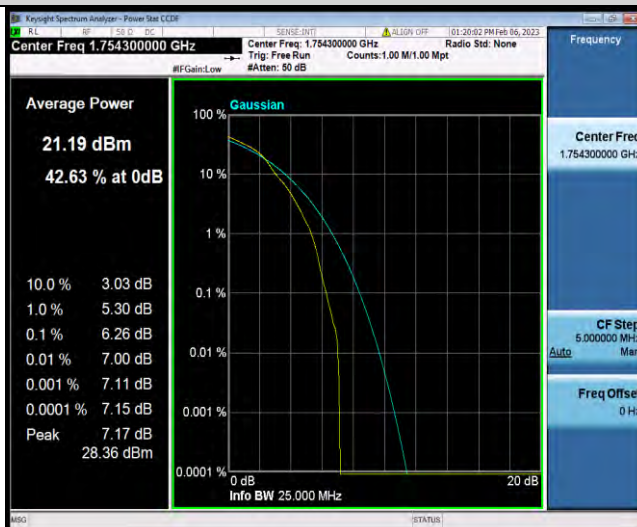
Test Report No.: W7L-P23010024RF06



Band4-1.4MHz-16QAM-20175-6RB#0



Band4-1.4MHz-16QAM-20393-1RB#0



Band4-1.4MHz-16QAM-20393-6RB#0

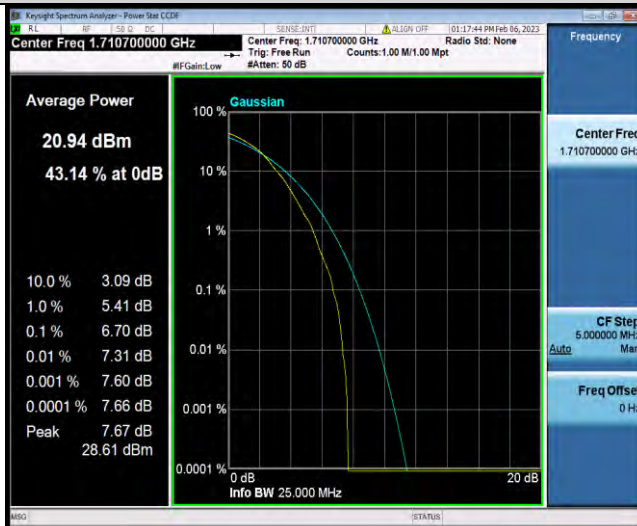


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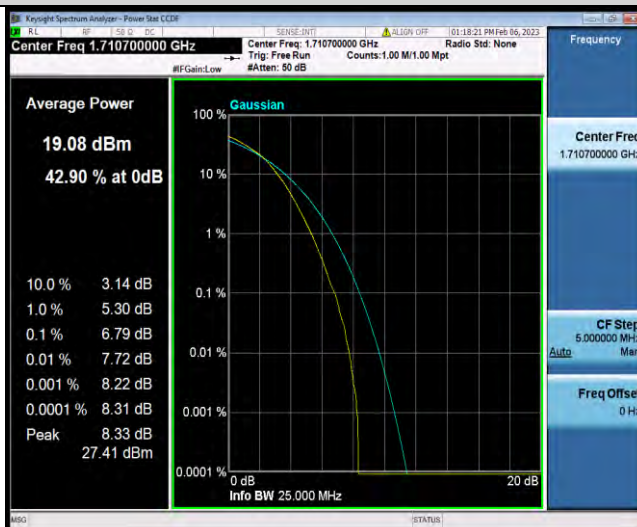
Test Report No.: W7L-P23010024RF06



Band4-1.4MHz-64QAM-19957-1RB#0



Band4-1.4MHz-64QAM-19957-6RB#0



Band4-1.4MHz-64QAM-20175-1RB#0



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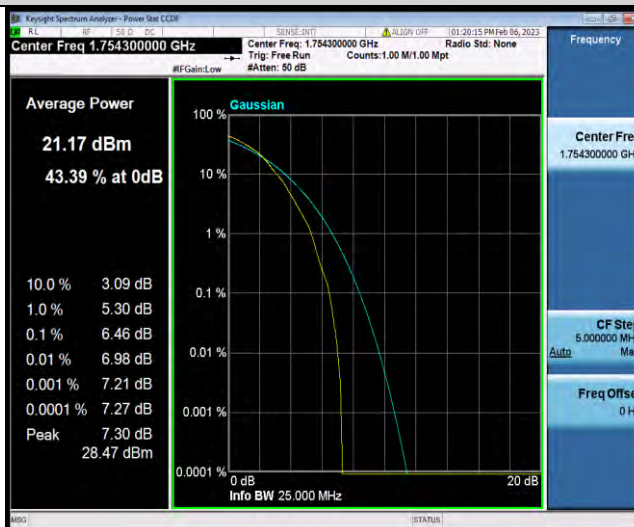
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Band4-1.4MHz-64QAM-20393-1RB#0

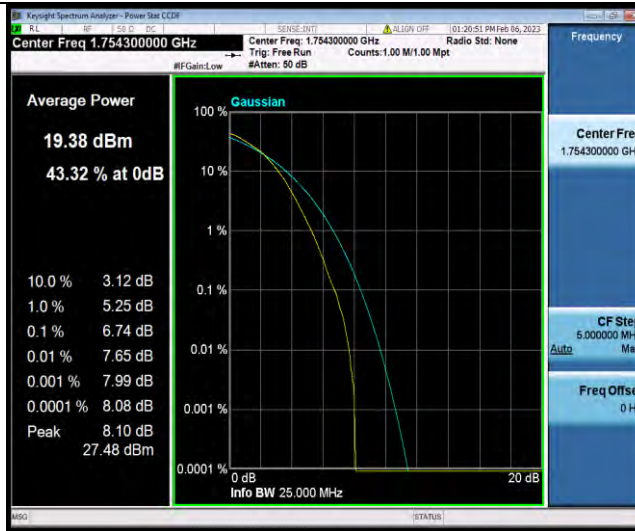


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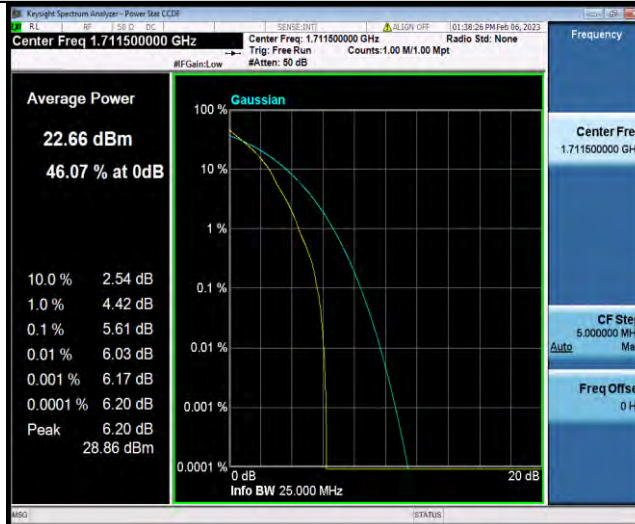


BUREAU
VERITAS

Test Report No.: W7L-P23010024RF06



Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0



Band4-3MHz-QPSK-20175-1RB#0

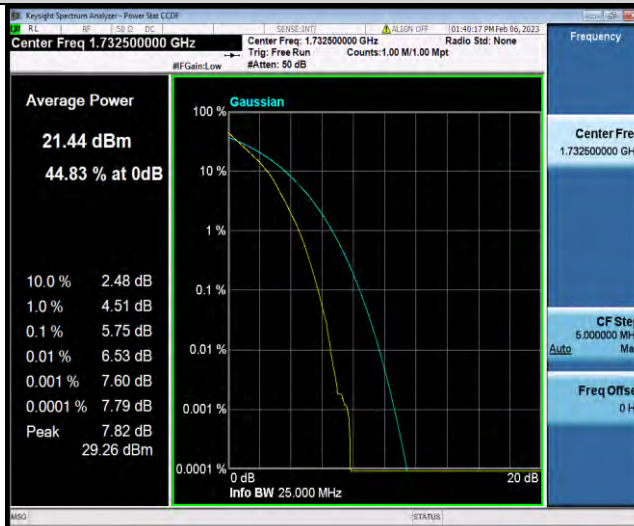


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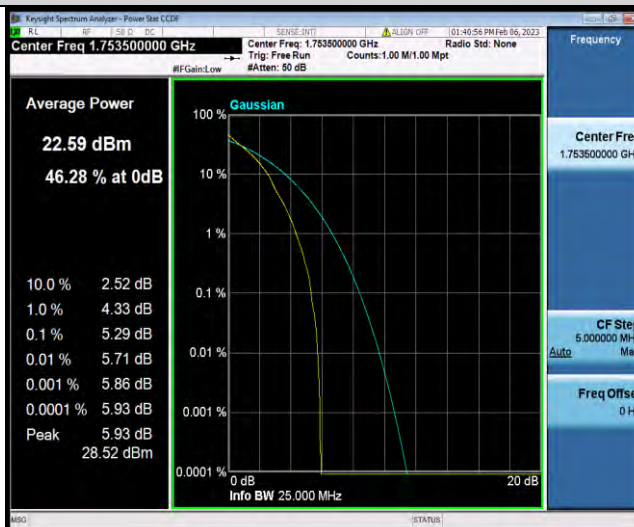
Test Report No.: W7L-P23010024RF06



Band4-3MHz-QPSK-20175-15RB#0



Band4-3MHz-QPSK-20385-1RB#0

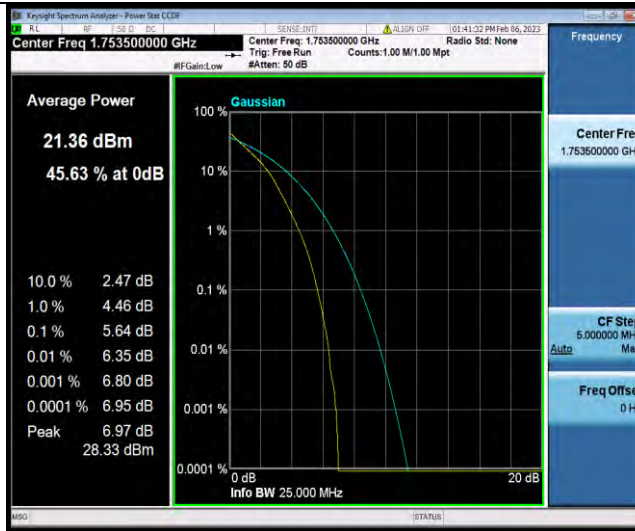


Band4-3MHz-QPSK-20385-15RB#0



BUREAU
VERITAS

Test Report No.: W7L-P23010024RF06



Band4-3MHz-16QAM-19965-1RB#0



Band4-3MHz-16QAM-19965-15RB#0

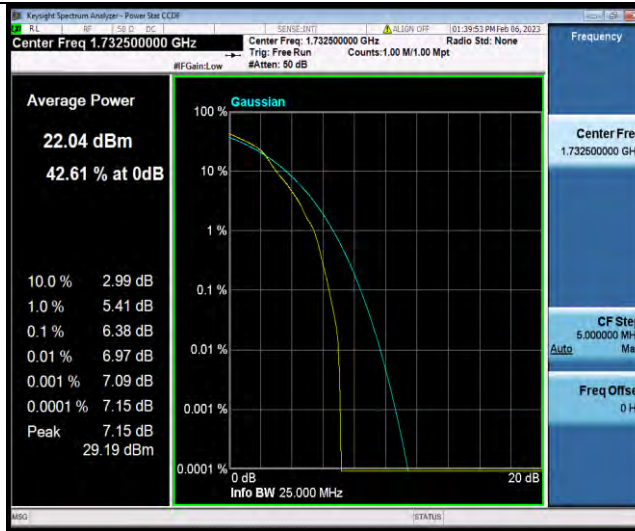


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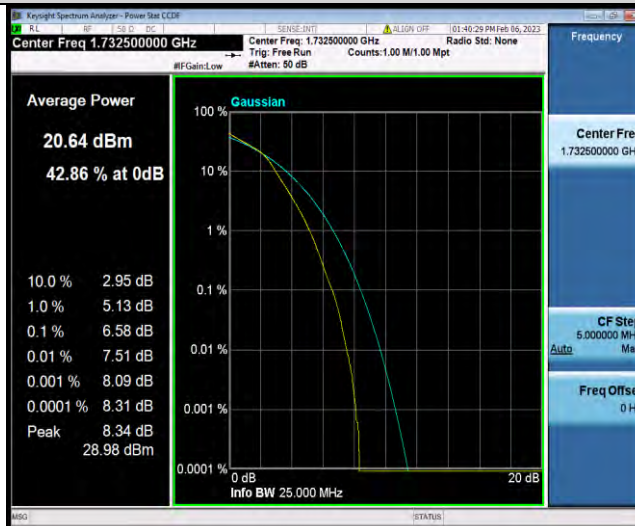


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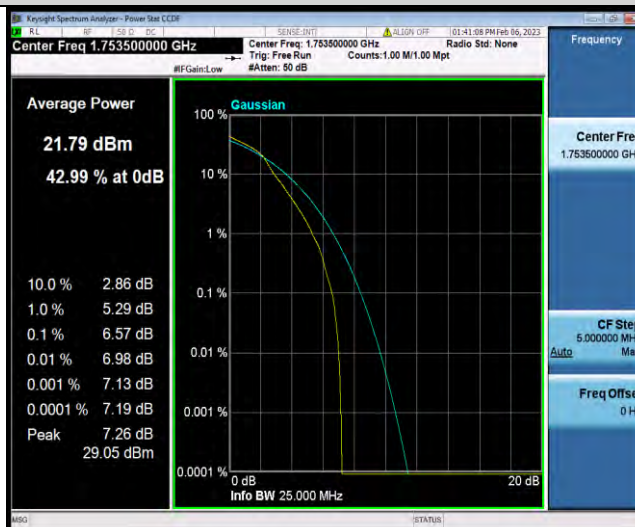
Test Report No.: W7L-P23010024RF06



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Band4-3MHz-16QAM-20385-15RB#0

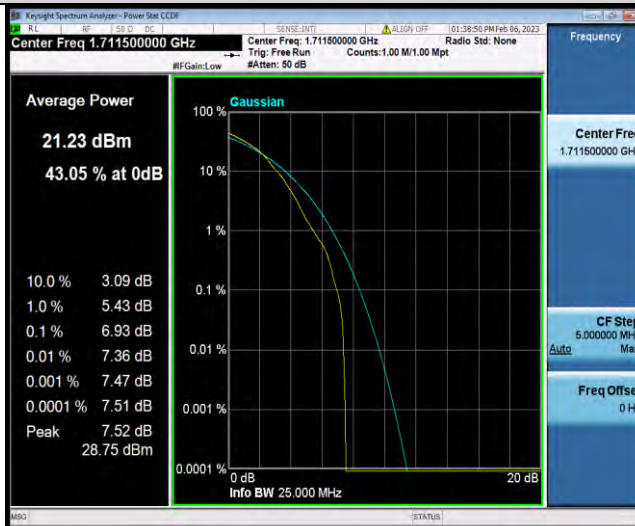


BUREAU VERITAS

Test Report No.: W7L-P23010024RF06



Band4-3MHz-64QAM-19965-1RB#0



Band4-3MHz-64QAM-19965-15RB#0

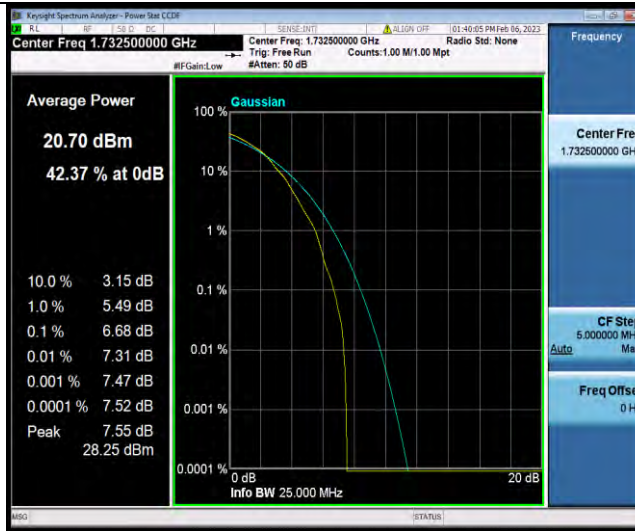


Band4-3MHz-64QAM-20175-1RB#0



BUREAU VERITAS

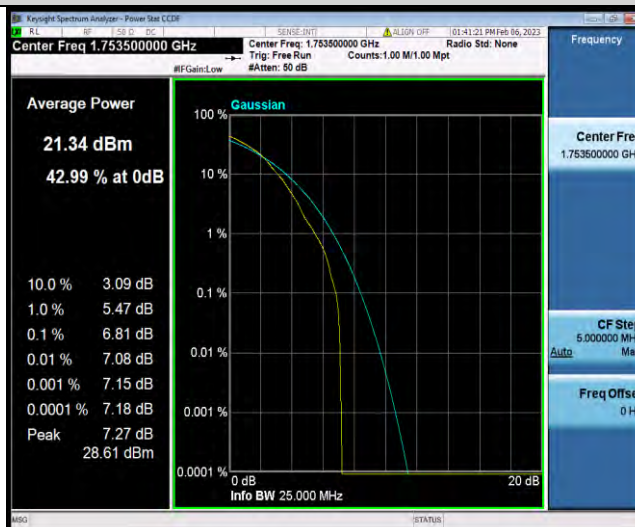
Test Report No.: W7L-P23010024RF06



Band4-3MHz-64QAM-20175-15RB#0



Band4-3MHz-64QAM-20385-1RB#0

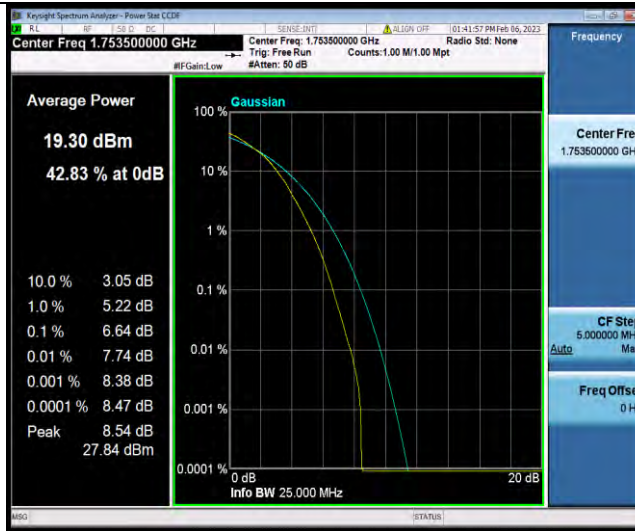


Band4-3MHz-64QAM-20385-15RB#0

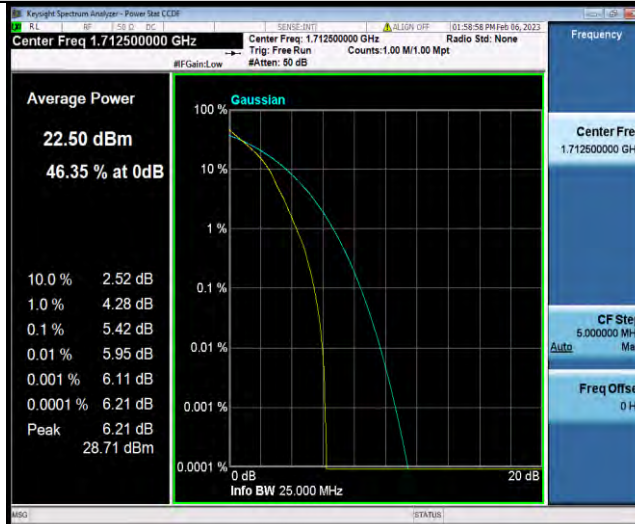


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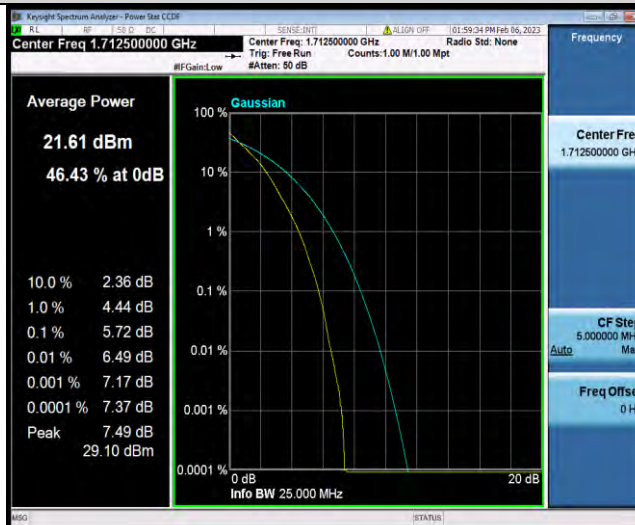
Test Report No.: W7L-P23010024RF06



Band4-5MHz-QPSK-19975-1RB#0



Band4-5MHz-QPSK-19975-25RB#0

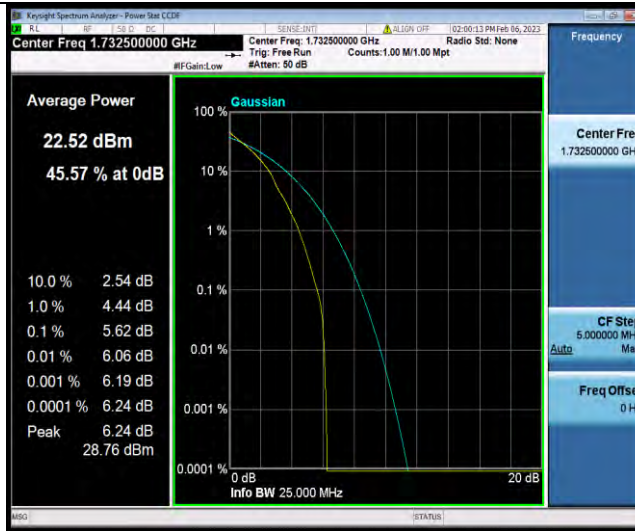


Band4-5MHz-QPSK-20175-1RB#0

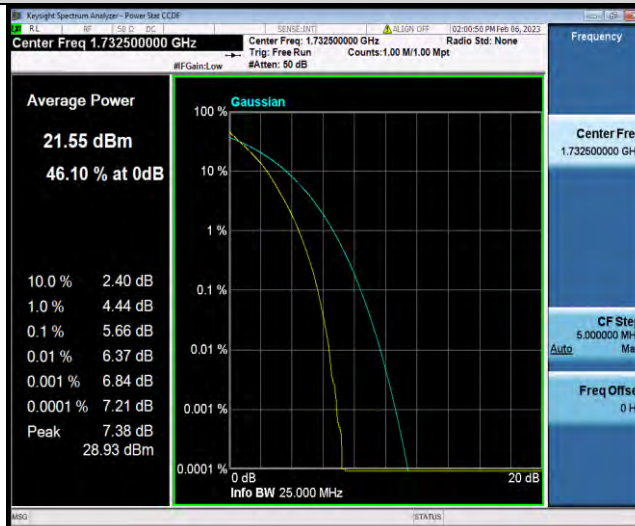


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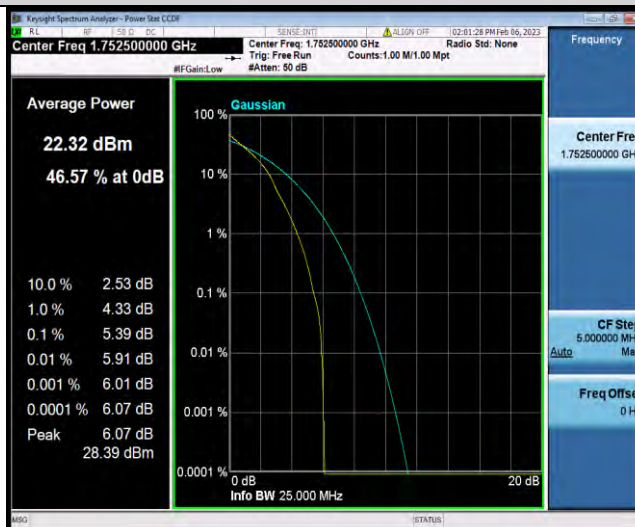
Test Report No.: W7L-P23010024RF06



Band4-5MHz-QPSK-20175-25RB#0



Band4-5MHz-QPSK-20375-1RB#0

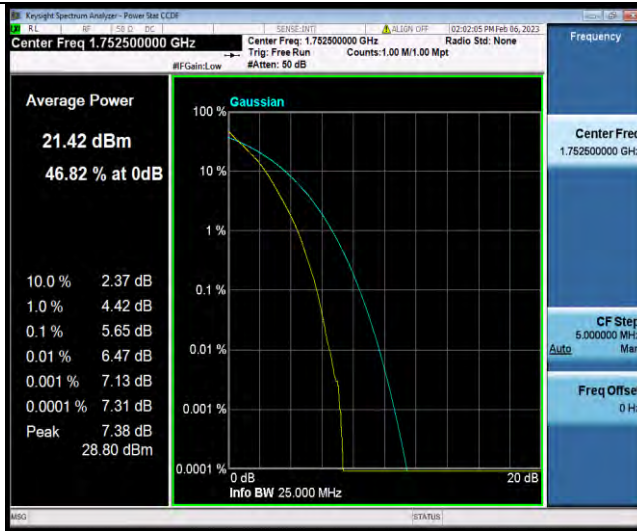


Band4-5MHz-QPSK-20375-25RB#0

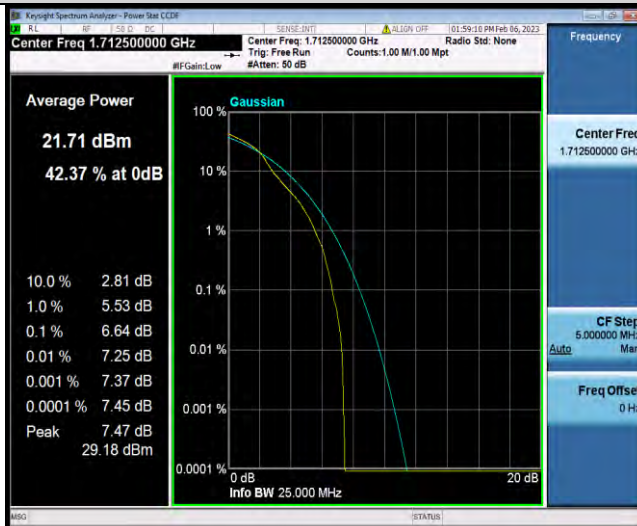


BUREAU VERITAS

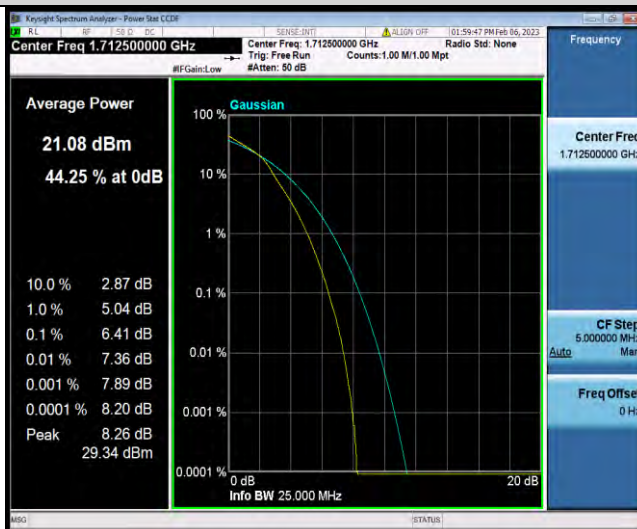
Test Report No.: W7L-P23010024RF06



Band4-5MHz-16QAM-19975-1RB#0



Band4-5MHz-16QAM-19975-25RB#0

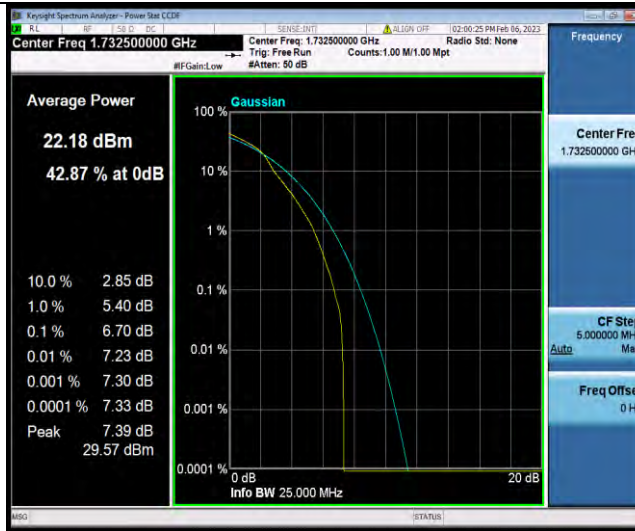


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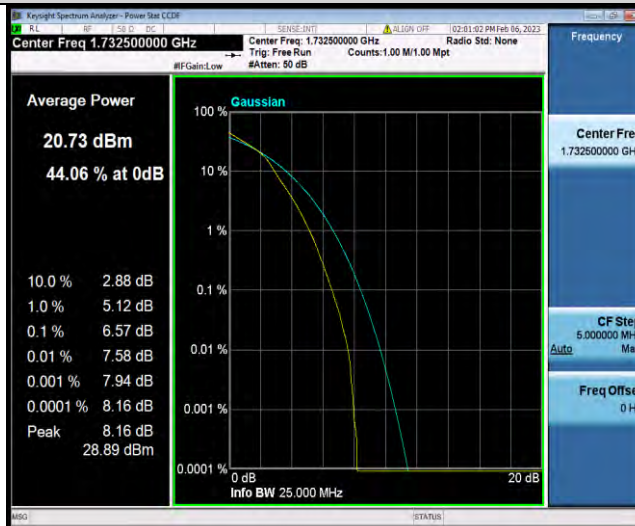


BUREAU VERITAS

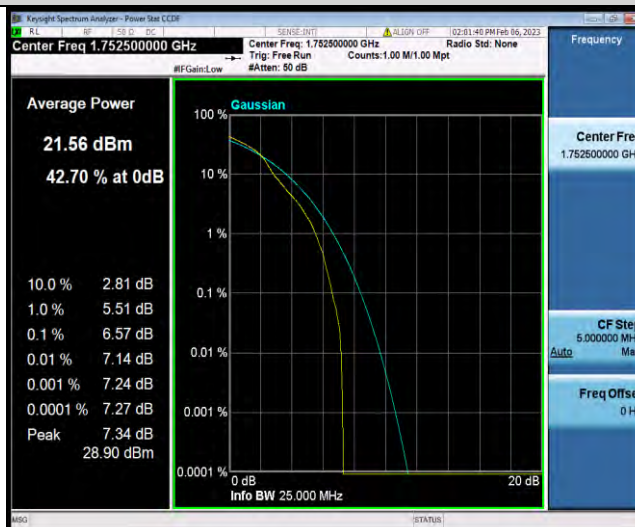
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Band4-5MHz-16QAM-20175-25RB#0



Band4-5MHz-16QAM-20375-1RB#0

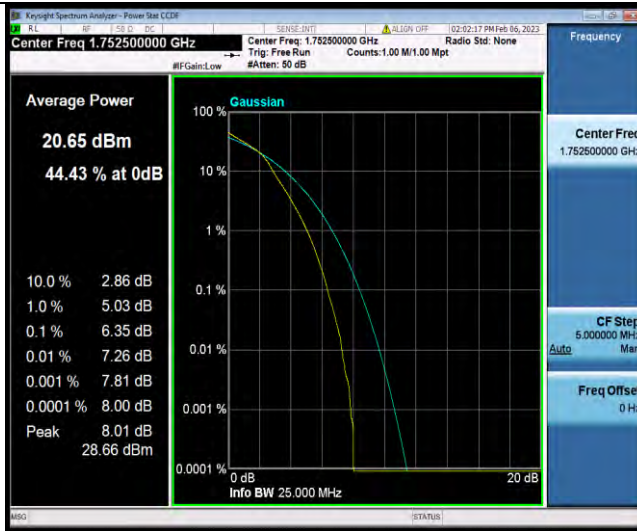


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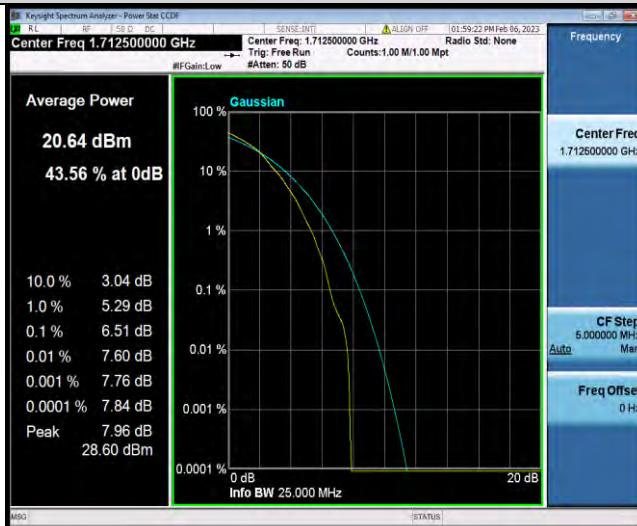


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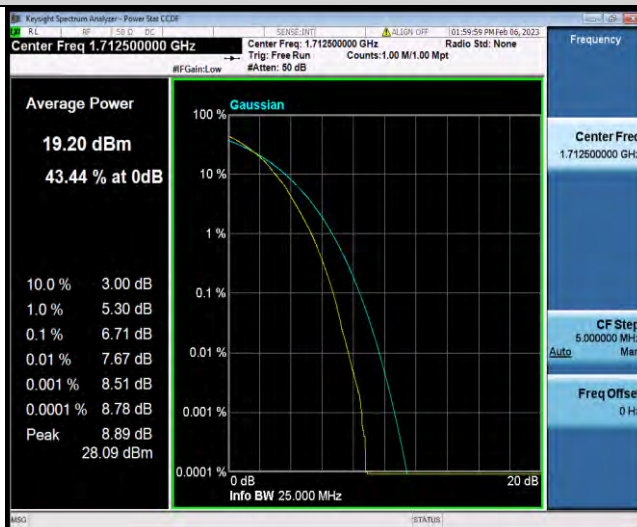
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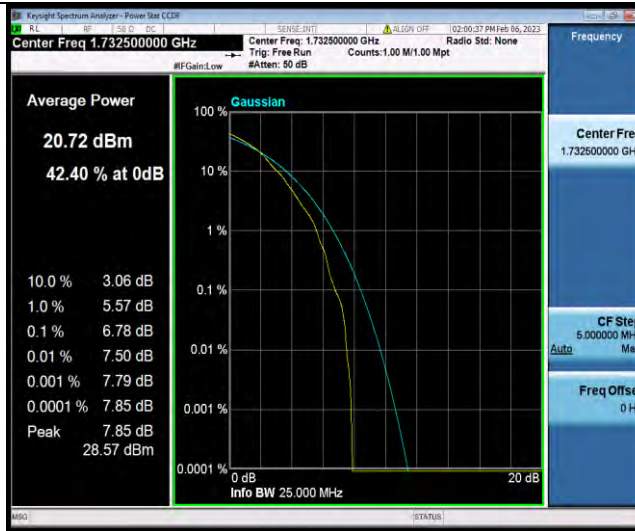


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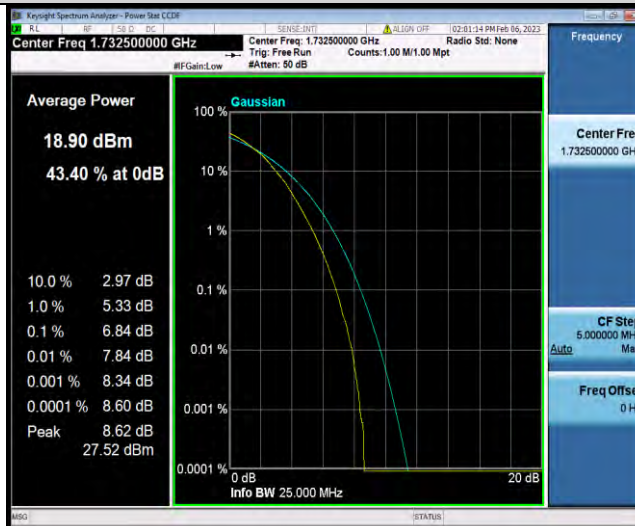


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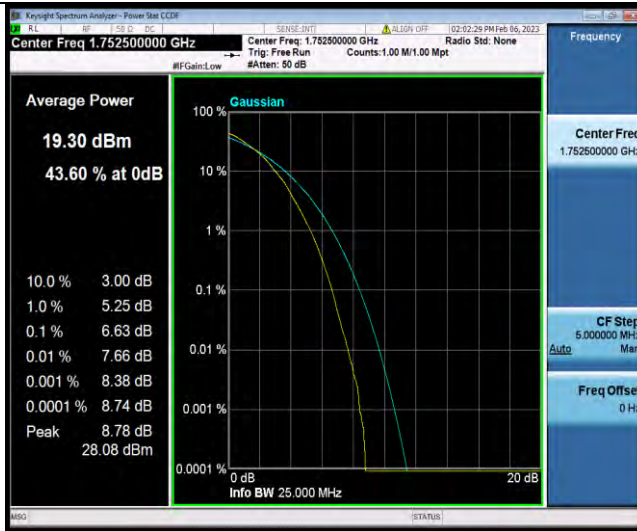


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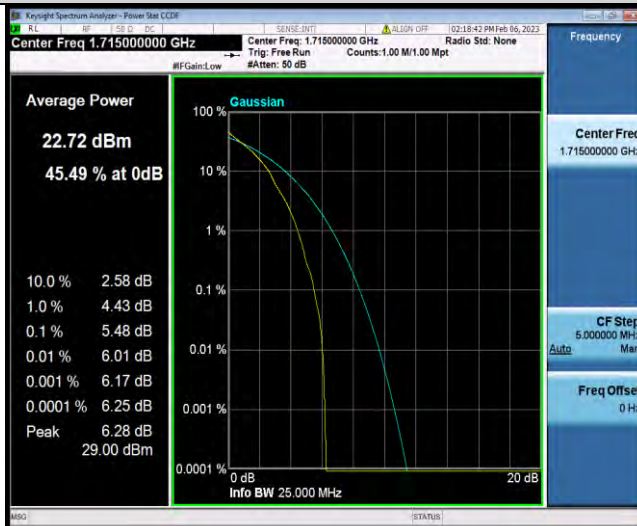


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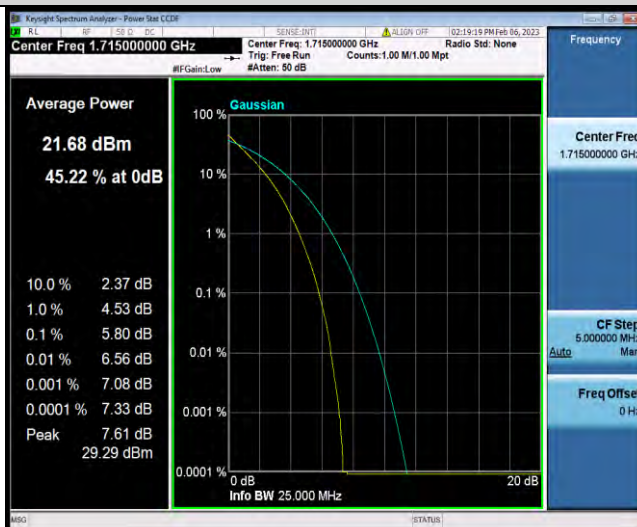
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Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0

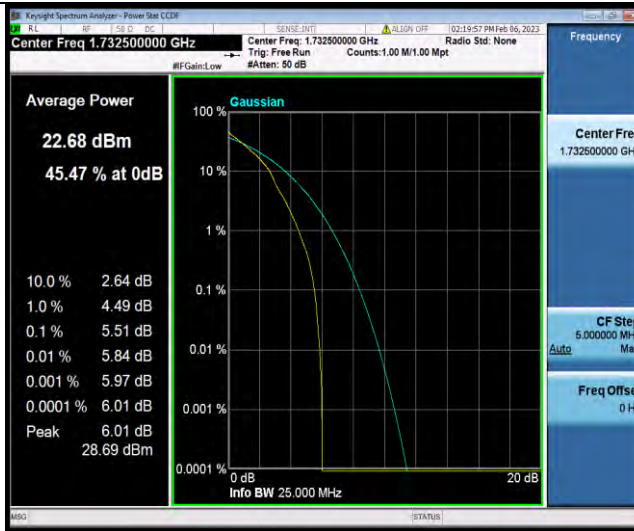


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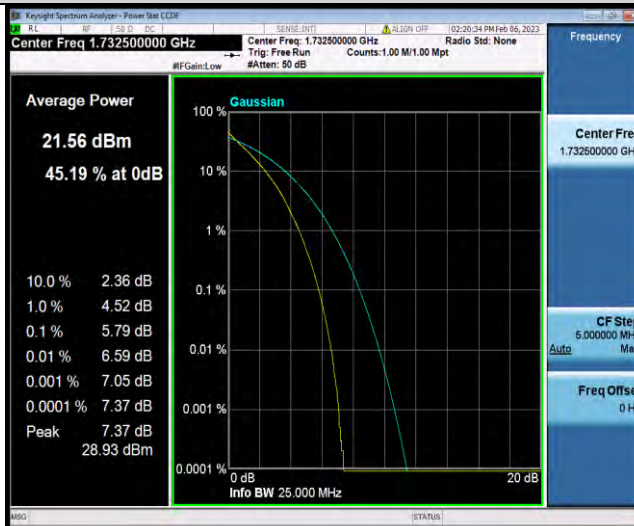


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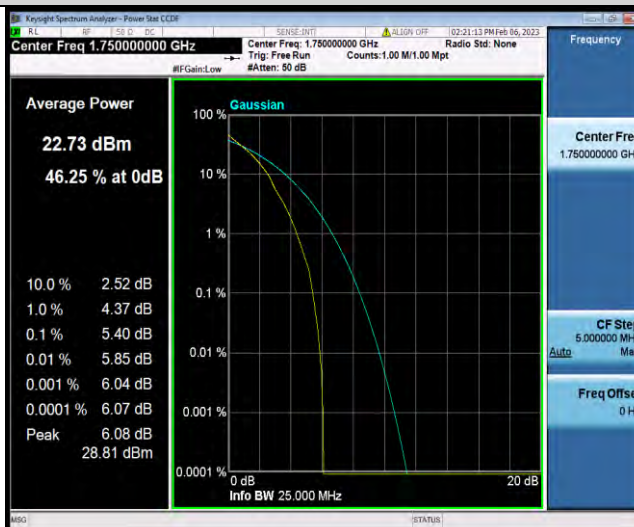
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Band4-10MHz-QPSK-20175-50RB#0



Band4-10MHz-QPSK-20350-1RB#0



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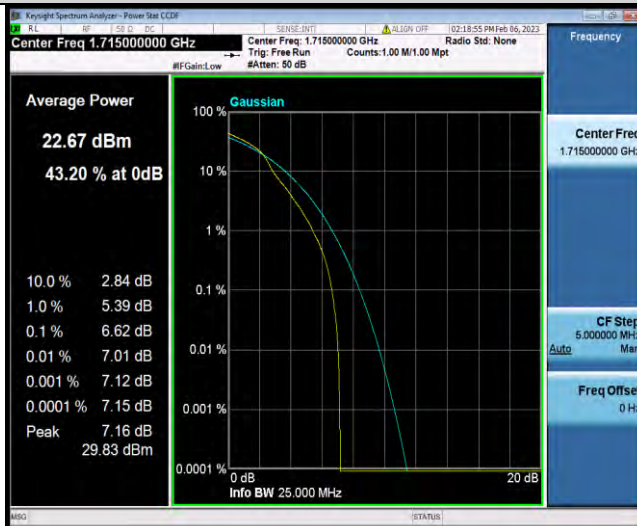


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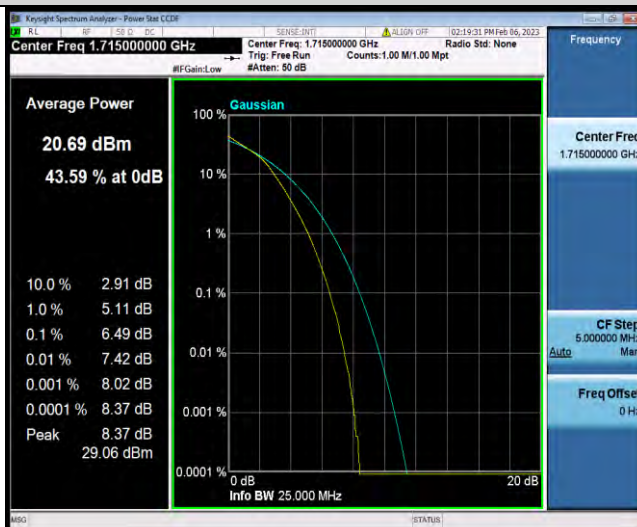
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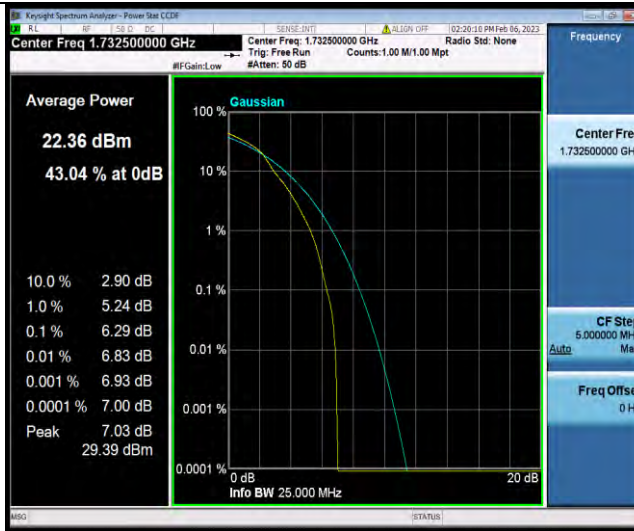


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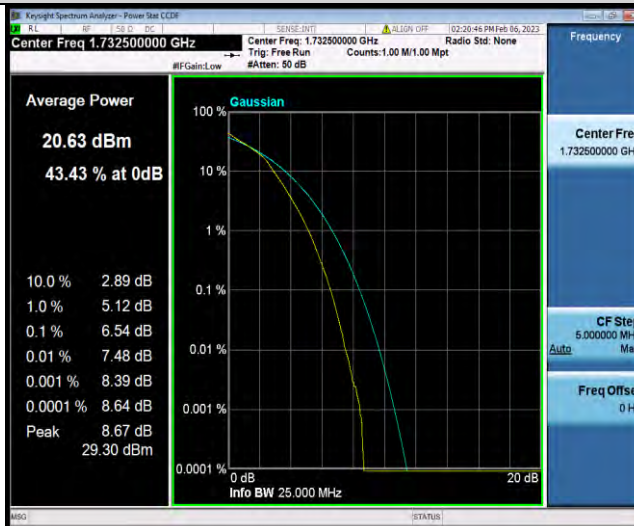


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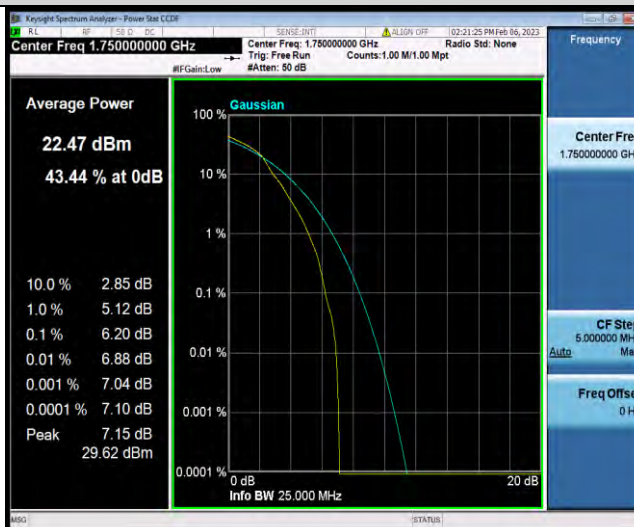
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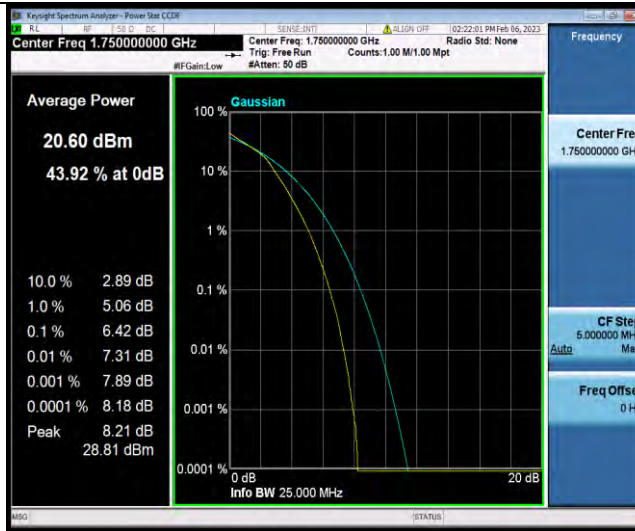


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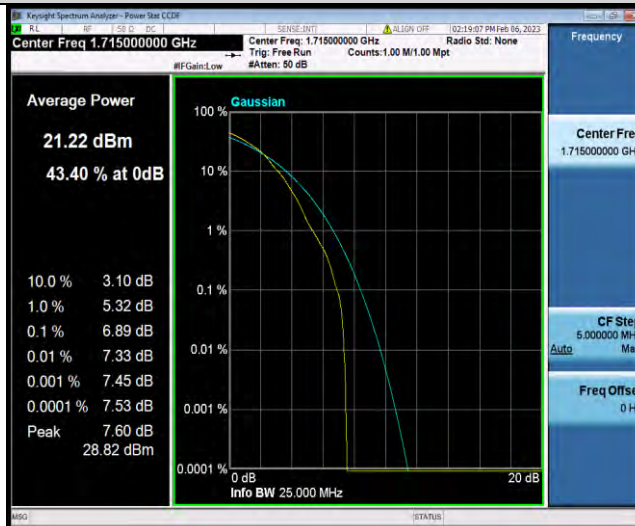


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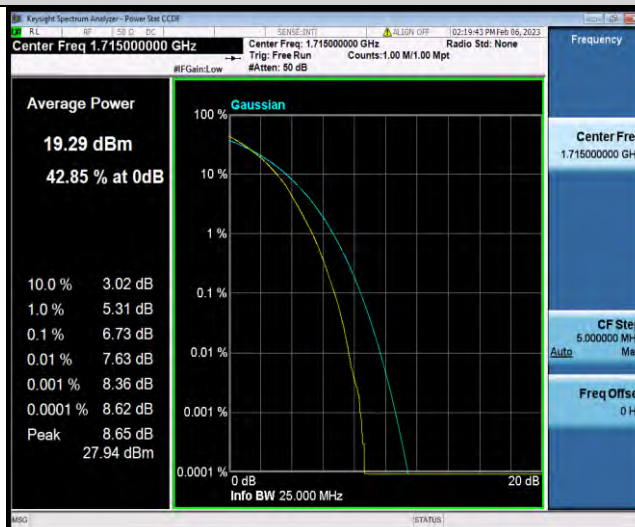
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Band4-10MHz-64QAM-20000-1RB#0



Band4-10MHz-64QAM-20000-50RB#0



Band4-10MHz-64QAM-20175-1RB#0



BUREAU VERITAS

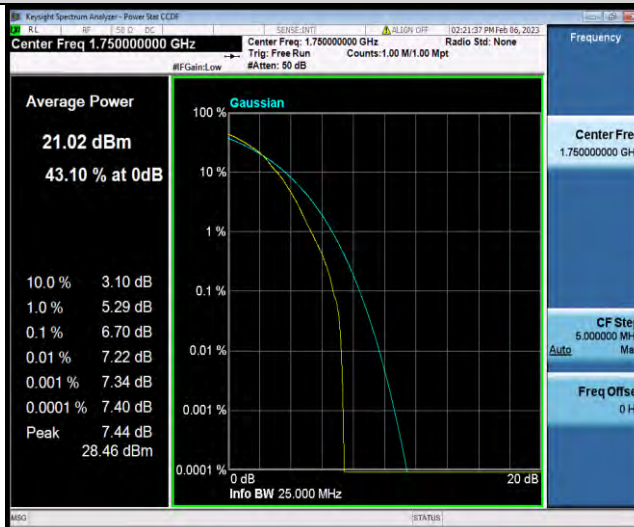
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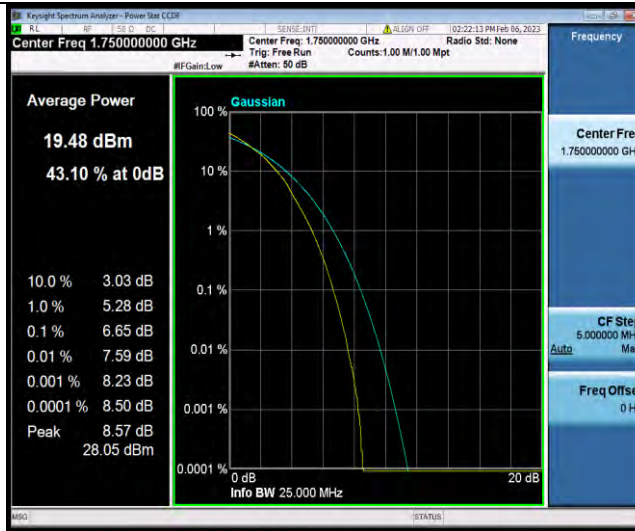


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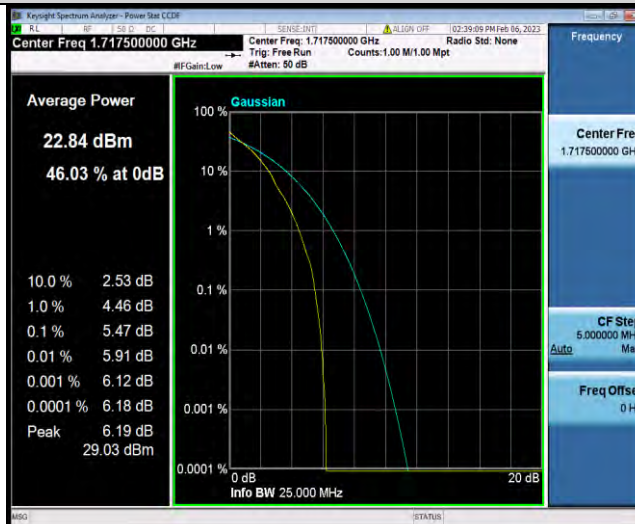


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VERITAS

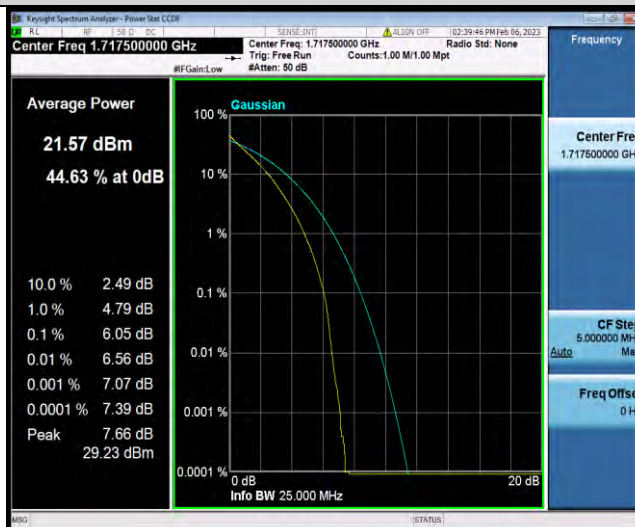
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Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0

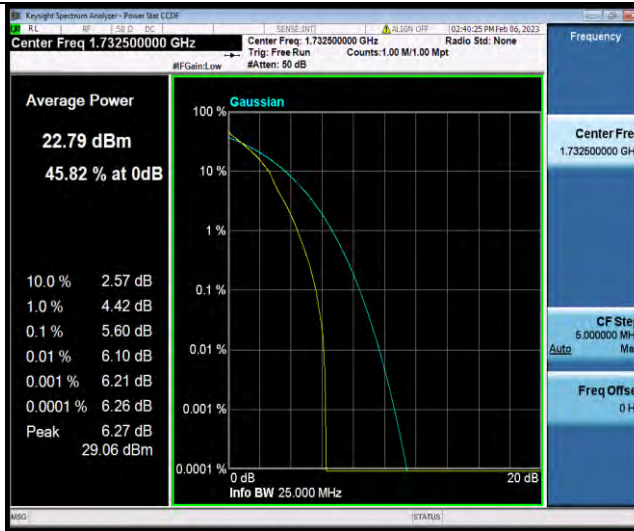


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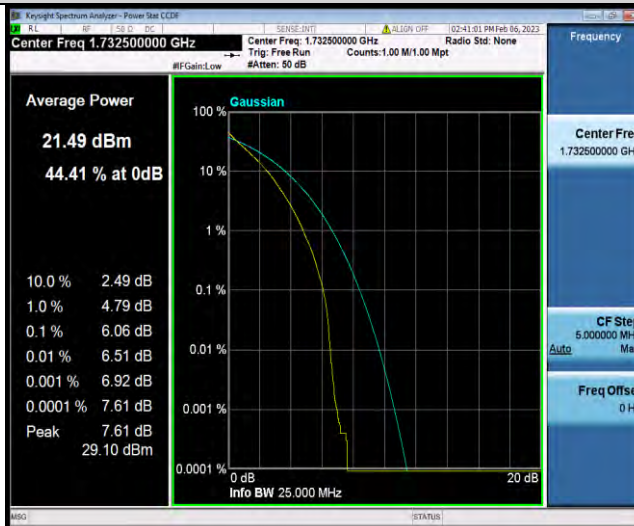


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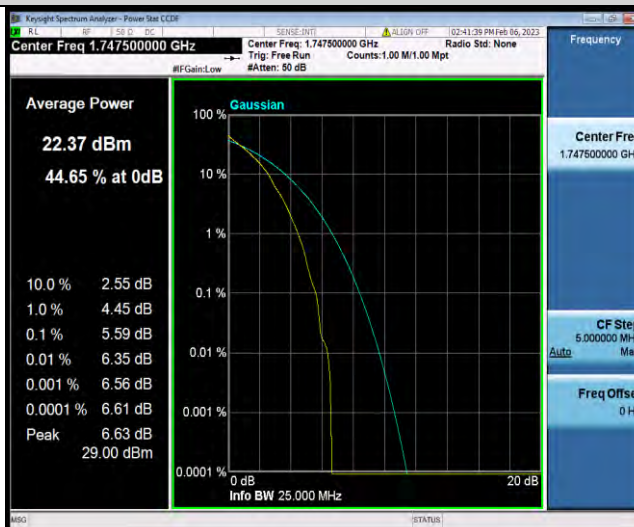
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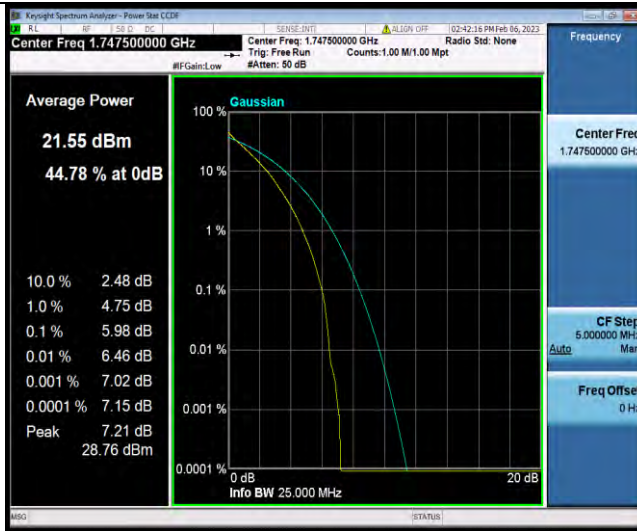


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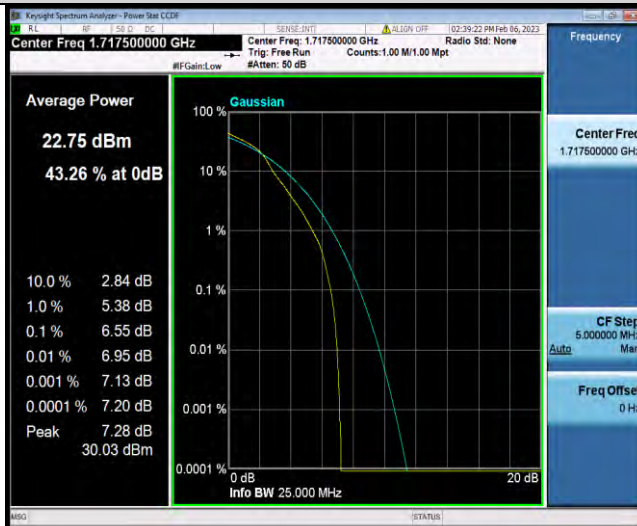


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Test Report No.: W7L-P23010024RF06



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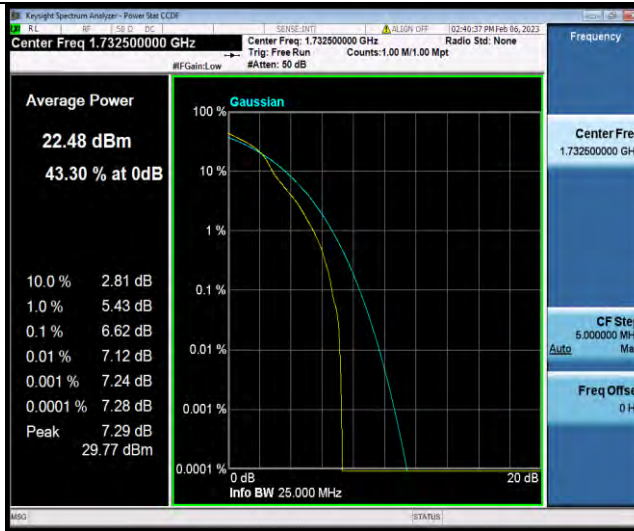


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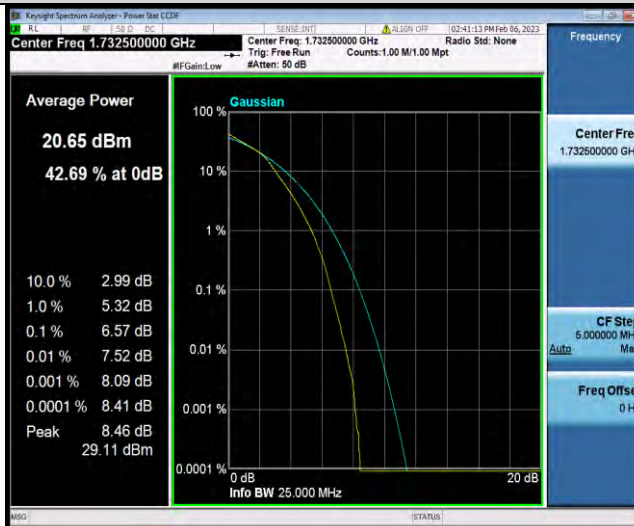


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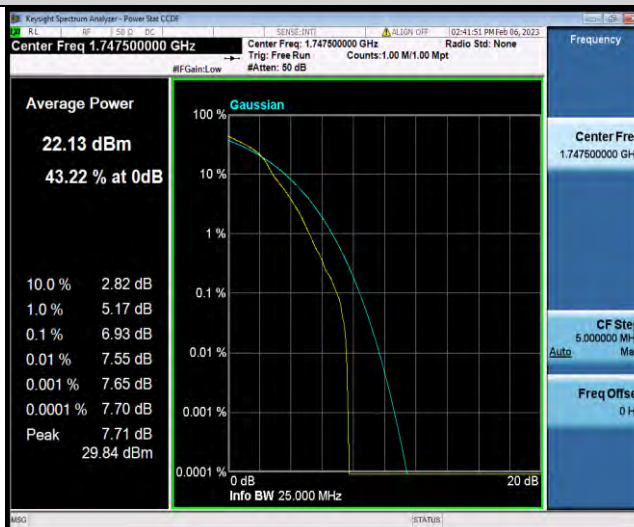
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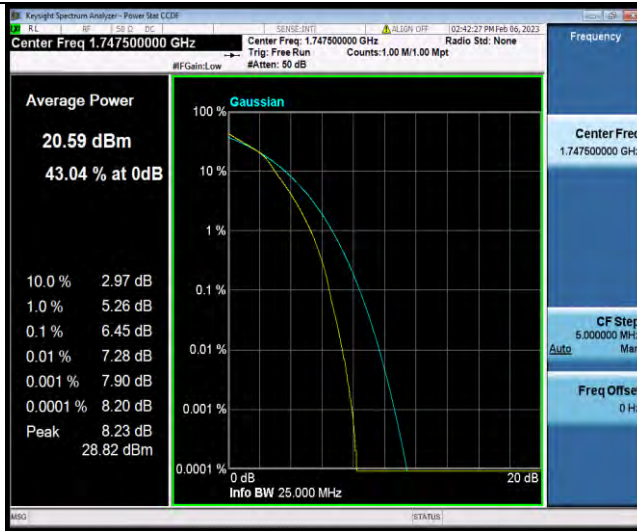


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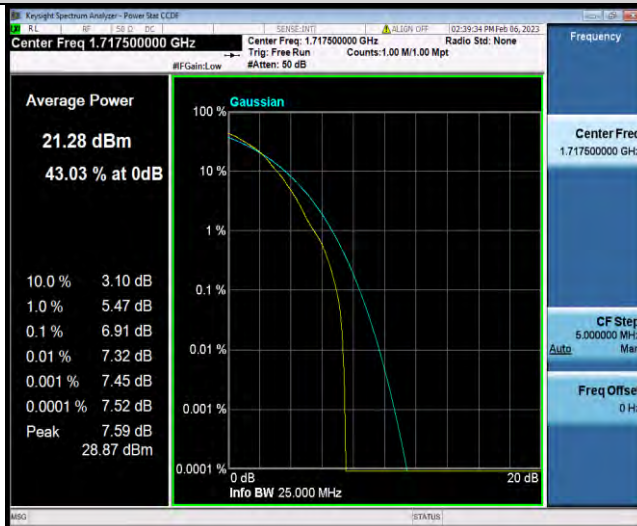


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VERITAS

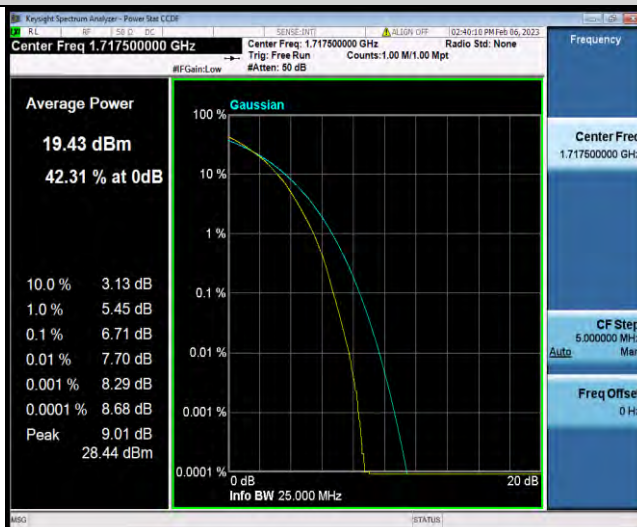
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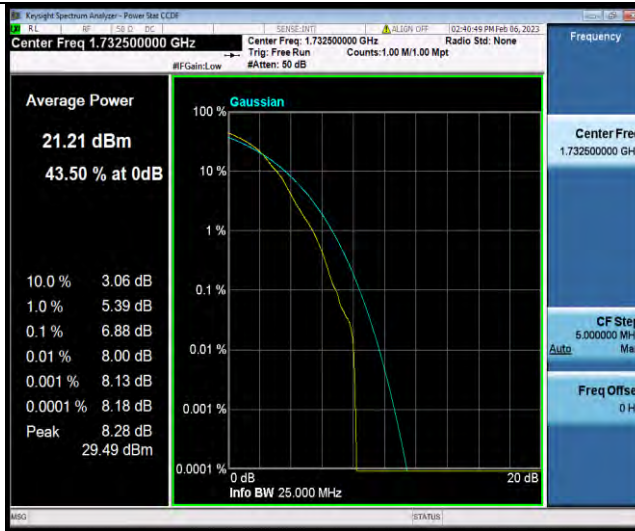


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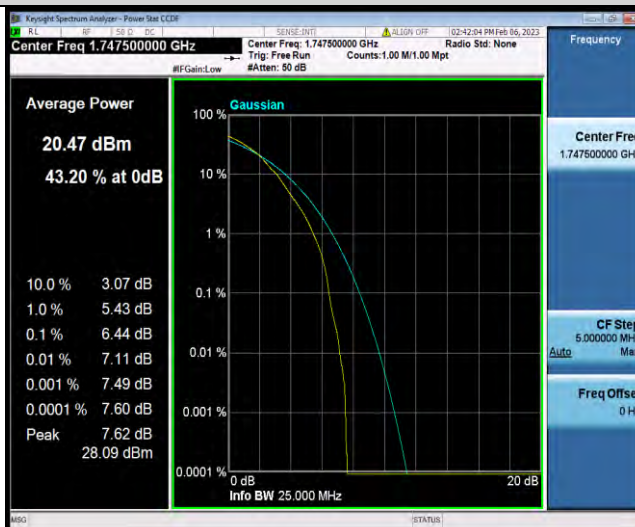
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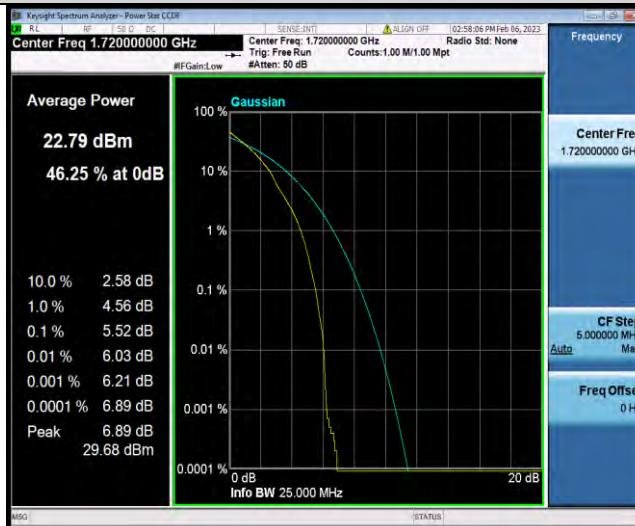


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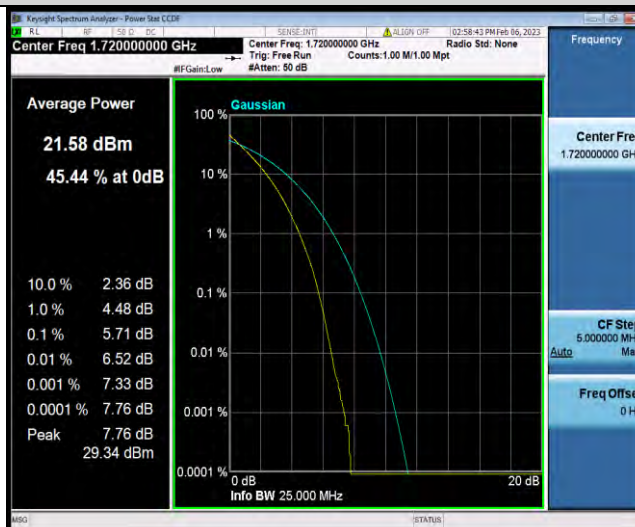
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Band4-20MHz-QPSK-20050-100RB#0



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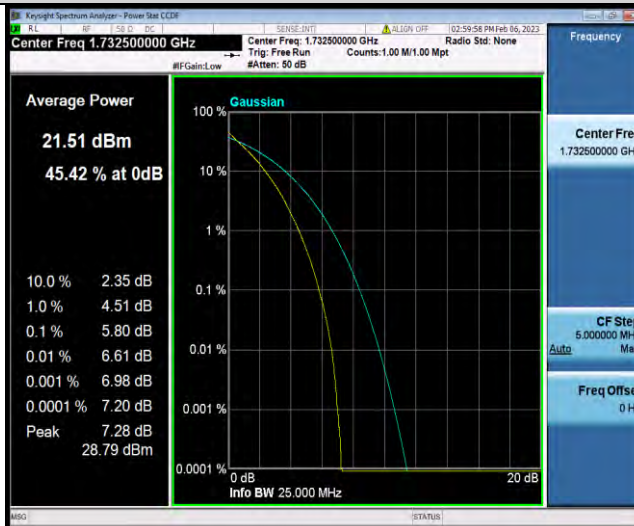


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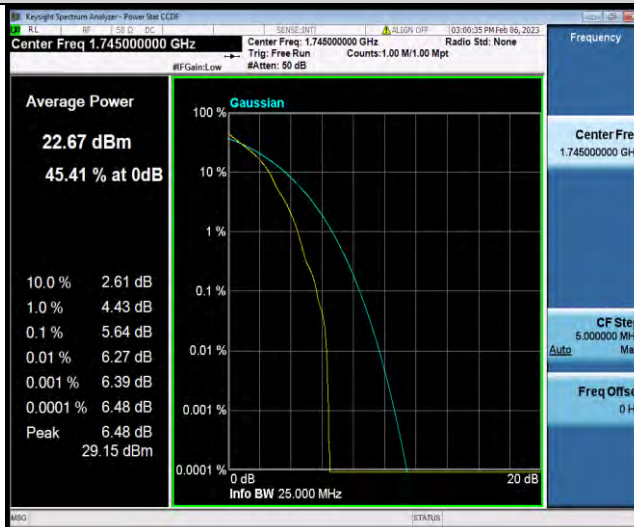
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Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-1RB#0

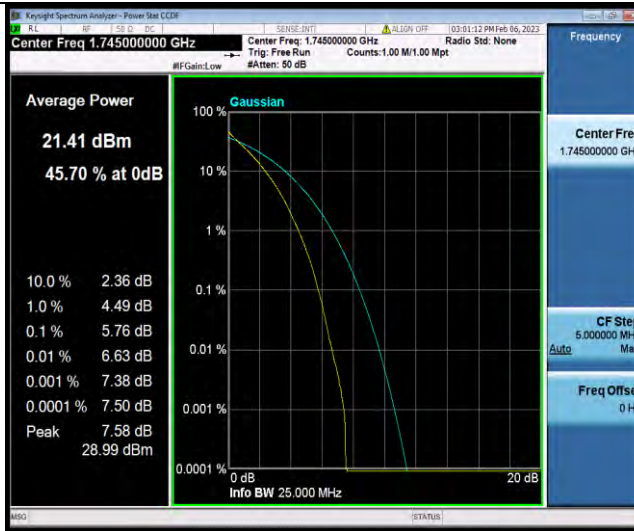


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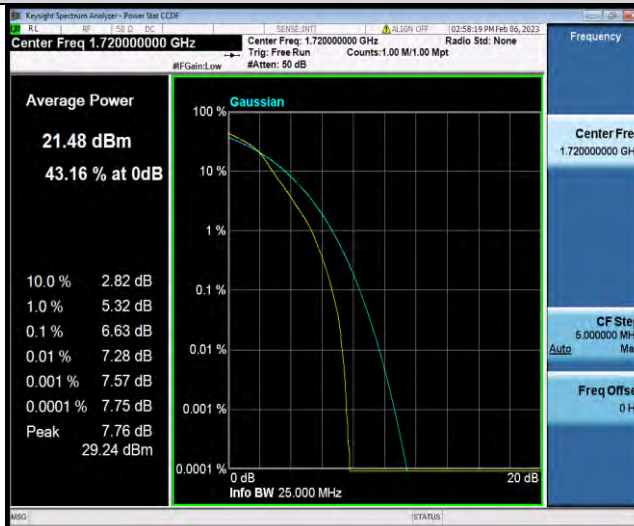


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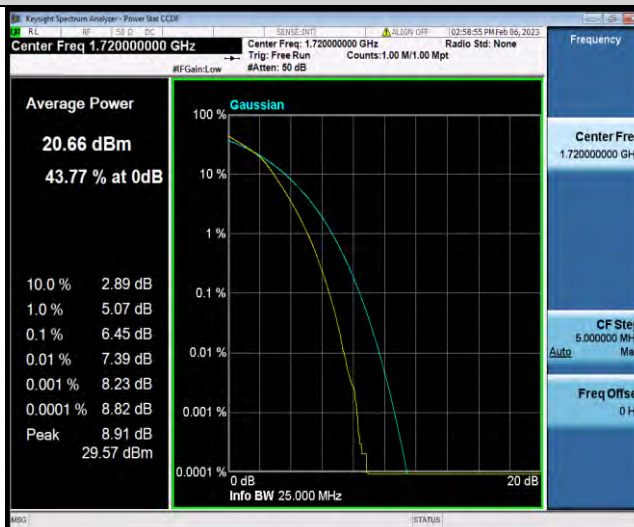
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Band4-20MHz-16QAM-20050-100RB#0

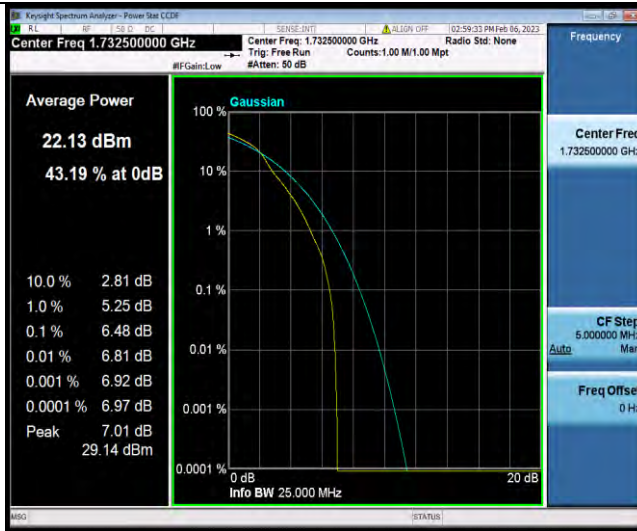


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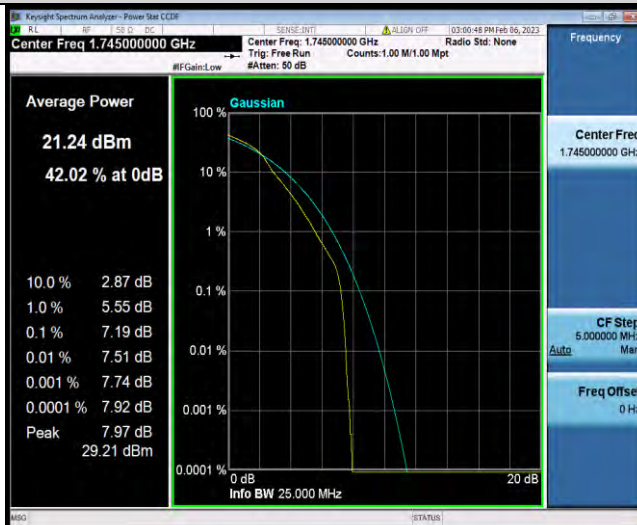
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Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-1RB#0



Band4-20MHz-16QAM-20300-100RB#0