



Appendix A: Average Output Power Data

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.87	PASS
		1	2	22.96	PASS
		1	5	22.86	PASS
		3	0	22.94	PASS
		3	1	22.97	PASS
		3	3	22.98	PASS
		6	0	21.93	PASS
	MCH	1	0	22.91	PASS
		1	2	23.01	PASS
		1	5	22.89	PASS
		3	0	22.95	PASS
		3	1	23.03	PASS
		3	3	22.98	PASS
		6	0	21.98	PASS
	HCH	1	0	22.86	PASS
		1	2	22.94	PASS
		1	5	22.88	PASS
		3	0	22.92	PASS
		3	1	22.98	PASS
		3	3	22.91	PASS
		6	0	21.92	PASS
16QAM	LCH	1	0	22.11	PASS
		1	2	22.25	PASS
		1	5	22.16	PASS
		3	0	22.08	PASS
		3	1	22.13	PASS
		3	3	22.07	PASS
		6	0	21.09	PASS
	MCH	1	0	22.11	PASS
		1	2	22.20	PASS
		1	5	22.15	PASS
		3	0	22.07	PASS
		3	1	22.14	PASS
		3	3	22.07	PASS

	HCH	6	0	21.11	PASS
		1	0	22.16	PASS
		1	2	22.22	PASS
		1	5	22.10	PASS
		3	0	22.04	PASS
		3	1	22.08	PASS
		3	3	22.08	PASS
		6	0	21.07	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.90	PASS
		1	7	23.03	PASS
		1	14	22.86	PASS
		8	0	22.00	PASS
		8	3	22.00	PASS
		8	7	21.95	PASS
		15	0	21.97	PASS
	MCH	1	0	22.97	PASS
		1	7	23.07	PASS
		1	14	22.91	PASS
		8	0	22.01	PASS
		8	3	22.06	PASS
		8	7	21.96	PASS
		15	0	22.03	PASS
	HCH	1	0	22.90	PASS
		1	7	23.00	PASS
		1	14	22.88	PASS
		8	0	21.96	PASS
		8	3	22.00	PASS
		8	7	21.93	PASS
		15	0	21.97	PASS
16QAM	LCH	1	0	22.15	PASS
		1	7	22.30	PASS
		1	14	22.19	PASS
		8	0	21.09	PASS
		8	3	21.13	PASS
		8	7	21.10	PASS
		15	0	21.05	PASS

	MCH	1	0	22.25	PASS
		1	7	22.28	PASS
		1	14	22.15	PASS
		8	0	21.12	PASS
		8	3	21.14	PASS
		8	7	21.12	PASS
		15	0	21.08	PASS
	HCH	1	0	22.17	PASS
		1	7	22.29	PASS
		1	14	22.14	PASS
		8	0	21.09	PASS
		8	3	21.13	PASS
		8	7	21.06	PASS
		15	0	21.03	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.97	PASS
		1	12	22.95	PASS
		1	24	22.85	PASS
		12	0	21.93	PASS
		12	6	21.99	PASS
		12	13	21.93	PASS
		25	0	21.94	PASS
	MCH	1	0	22.93	PASS
		1	12	22.93	PASS
		1	24	22.89	PASS
		12	0	21.98	PASS
		12	6	22.04	PASS
		12	13	21.97	PASS
		25	0	21.98	PASS
	HCH	1	0	22.91	PASS
		1	12	22.91	PASS
		1	24	22.84	PASS
		12	0	21.93	PASS
		12	6	22.00	PASS
		12	13	21.90	PASS
		25	0	21.93	PASS
16QAM	LCH	1	0	22.19	PASS
		1	12	22.19	PASS

		1	24	22.15	PASS
		12	0	21.08	PASS
		12	6	21.10	PASS
		12	13	21.07	PASS
		25	0	21.04	PASS
	MCH	1	0	22.27	PASS
		1	12	22.23	PASS
		1	24	22.18	PASS
		12	0	21.12	PASS
		12	6	21.14	PASS
		12	13	21.08	PASS
		25	0	21.08	PASS
	HCH	1	0	22.17	PASS
		1	12	22.16	PASS
		1	24	22.12	PASS
		12	0	21.07	PASS
		12	6	21.10	PASS
		12	13	21.03	PASS
		25	0	21.02	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.92	PASS
		1	24	22.93	PASS
		1	49	22.89	PASS
		25	0	21.96	PASS
		25	12	21.95	PASS
		25	25	21.90	PASS
		50	0	21.96	PASS
	MCH	1	0	23.03	PASS
		1	24	22.97	PASS
		1	49	22.89	PASS
		25	0	22.02	PASS
		25	12	22.01	PASS
		25	25	22.00	PASS
		50	0	22.00	PASS
	HCH	1	0	22.97	PASS
		1	24	22.95	PASS
		1	49	22.84	PASS
		25	0	21.97	PASS

		25	12	21.97	PASS
		25	25	21.93	PASS
		50	0	21.97	PASS
16QAM	LCH	1	0	22.21	PASS
		1	24	22.21	PASS
		1	49	22.20	PASS
		25	0	21.07	PASS
		25	12	21.08	PASS
		25	25	21.02	PASS
		50	0	21.05	PASS
	MCH	1	0	22.34	PASS
		1	24	22.27	PASS
		1	49	22.13	PASS
		25	0	21.13	PASS
		25	12	21.13	PASS
		25	25	21.05	PASS
		50	0	21.10	PASS
	HCH	1	0	22.21	PASS
		1	24	22.25	PASS
		1	49	22.10	PASS
		25	0	21.10	PASS
		25	12	21.07	PASS
		25	25	21.00	PASS
		50	0	21.04	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.96	PASS
		1	37	22.92	PASS
		1	74	22.94	PASS
		36	0	22.00	PASS
		36	19	21.99	PASS
		36	39	22.04	PASS
		75	0	22.05	PASS
	MCH	1	0	23.05	PASS
		1	37	22.94	PASS
		1	74	22.86	PASS
		36	0	22.04	PASS
		36	19	22.05	PASS
		36	39	21.96	PASS

	HCH	75	0	21.98	PASS
		1	0	23.00	PASS
		1	37	22.93	PASS
		1	74	22.83	PASS
		36	0	22.00	PASS
		36	19	22.00	PASS
		36	39	21.96	PASS
		75	0	21.99	PASS
16QAM	LCH	1	0	22.22	PASS
		1	37	22.21	PASS
		1	74	22.26	PASS
		36	0	21.09	PASS
		36	19	21.13	PASS
		36	39	21.12	PASS
		75	0	21.14	PASS
	MCH	1	0	22.39	PASS
		1	37	22.21	PASS
		1	74	22.08	PASS
		36	0	21.18	PASS
		36	19	21.12	PASS
		36	39	21.07	PASS
		75	0	21.08	PASS
	HCH	1	0	22.23	PASS
		1	37	22.21	PASS
		1	74	22.14	PASS
		36	0	21.12	PASS
		36	19	21.08	PASS
		36	39	21.03	PASS
		75	0	21.04	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.94	PASS
		1	49	22.95	PASS
		1	99	22.90	PASS
		50	0	22.00	PASS
		50	25	22.07	PASS
		50	50	22.01	PASS
		100	0	22.04	PASS
	MCH	1	0	22.98	PASS



		1	49	22.96	PASS
		1	99	22.85	PASS
		50	0	22.06	PASS
		50	25	22.05	PASS
		50	50	21.96	PASS
		100	0	22.03	PASS
	HCH	1	0	23.00	PASS
		1	49	22.95	PASS
		1	99	22.81	PASS
		50	0	22.04	PASS
		50	25	22.02	PASS
		50	50	21.93	PASS
		100	0	22.00	PASS
16QAM	LCH	1	0	22.22	PASS
		1	49	22.24	PASS
		1	99	22.15	PASS
		50	0	21.10	PASS
		50	25	21.18	PASS
		50	50	21.09	PASS
		100	0	21.15	PASS
	MCH	1	0	22.27	PASS
		1	49	22.25	PASS
		1	99	22.08	PASS
		50	0	21.17	PASS
		50	25	21.13	PASS
		50	50	21.07	PASS
		100	0	21.10	PASS
	HCH	1	0	22.27	PASS
		1	49	22.25	PASS
		1	99	22.18	PASS
		50	0	21.10	PASS
		50	25	21.09	PASS
		50	50	21.02	PASS
		100	0	21.05	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	3.43	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	3.42	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3.50	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	4.50	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	4.51	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	4.57	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	3.33	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	3.31	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	3.35	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	4.43	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	4.47	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	4.59	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	3.32	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	3.30	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	3.35	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	4.40	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	4.49	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	4.55	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	3.28	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	3.30	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	3.30	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	4.41	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	4.54	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	4.55	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	3.29	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	3.36	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	3.16	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	4.39	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	4.63	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	4.28	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	3.30	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	3.46	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	3.16	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	4.41	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	4.79	13	PASS



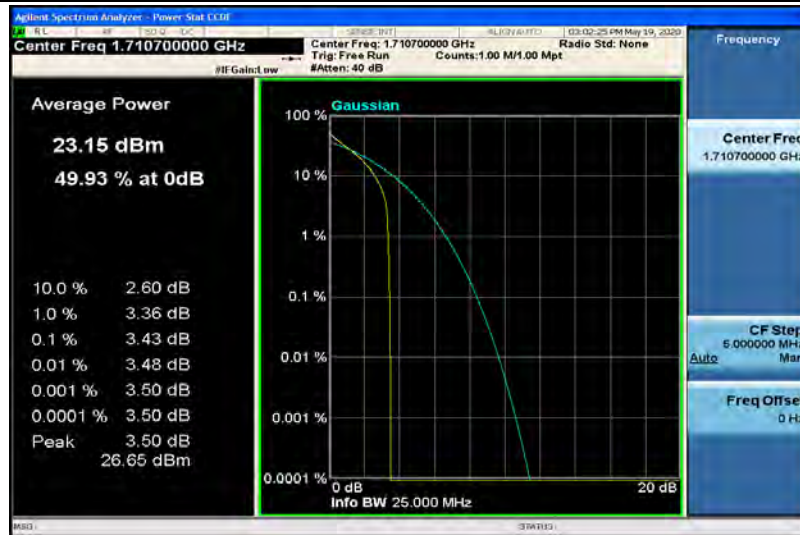
Report Number: 2006FR11
Rev.01

Band4	20MHz	16QAM	20300	1RB#0	4.34	13	PASS
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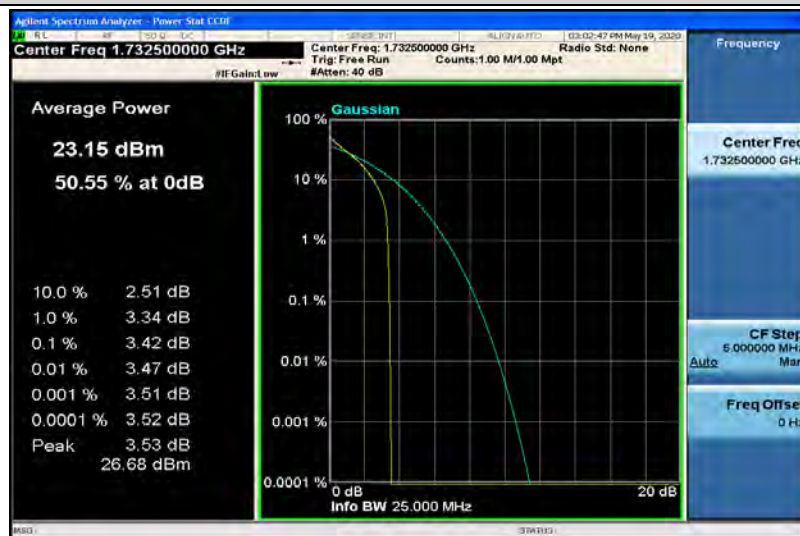


Test Graphs

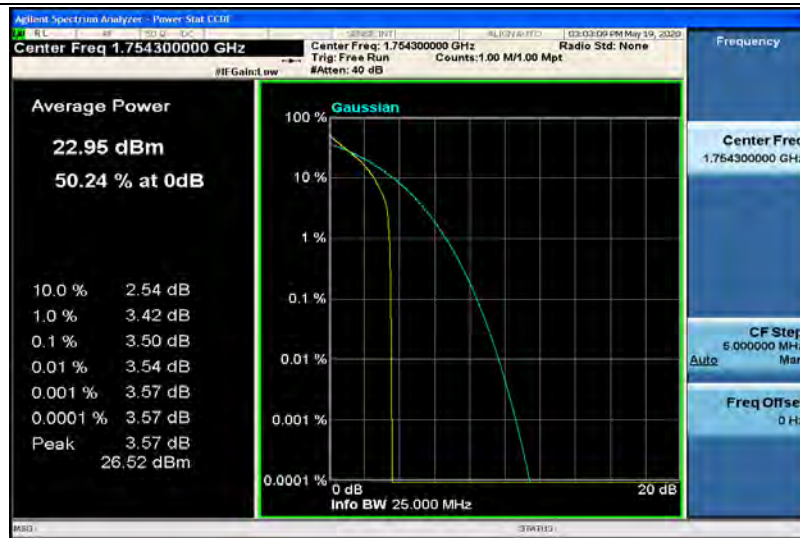
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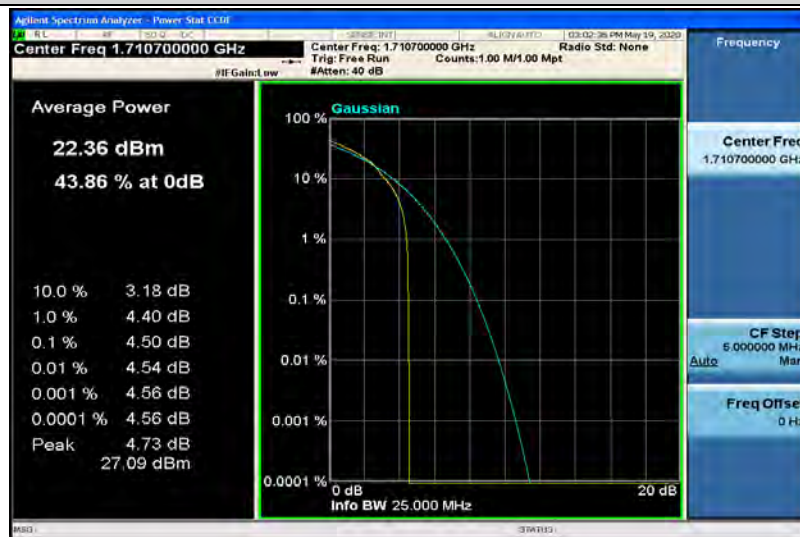
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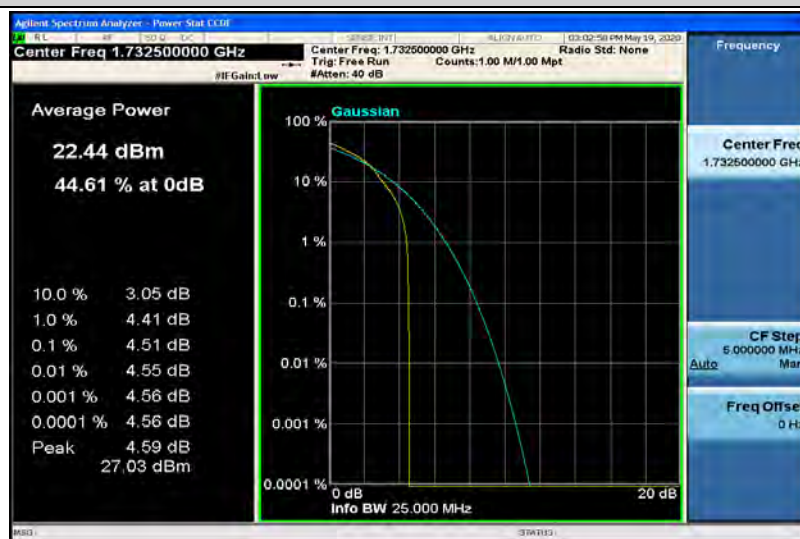
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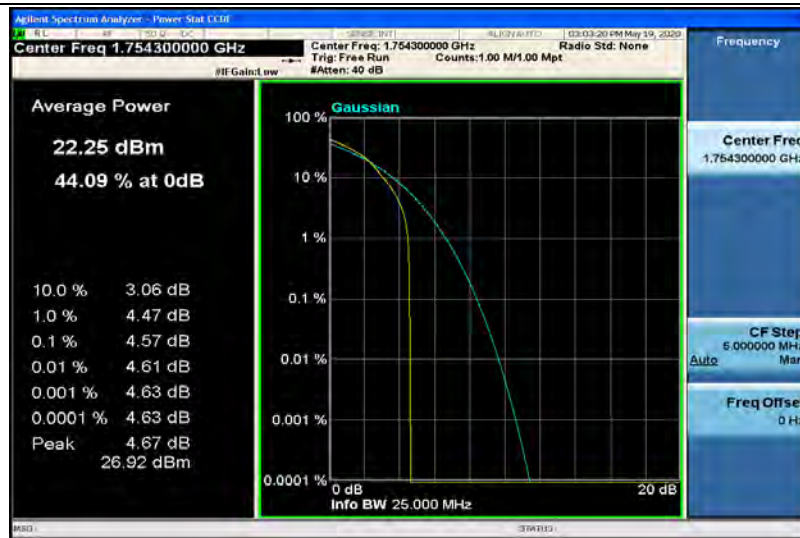
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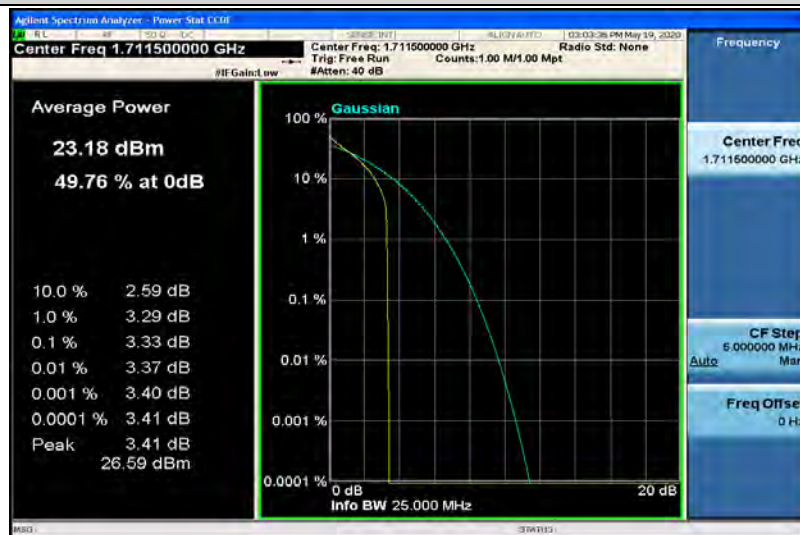
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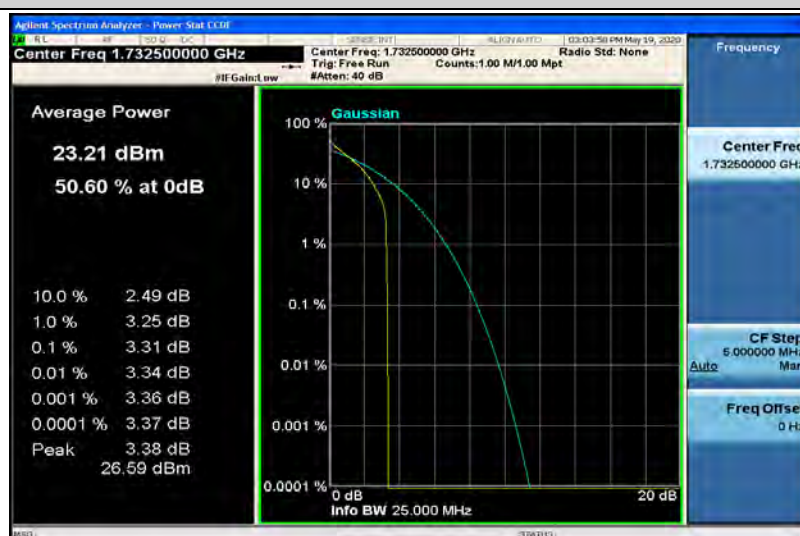
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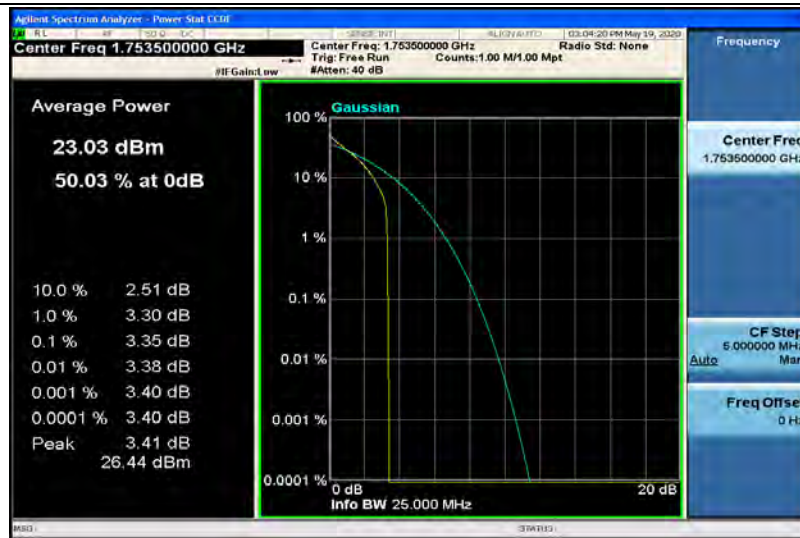
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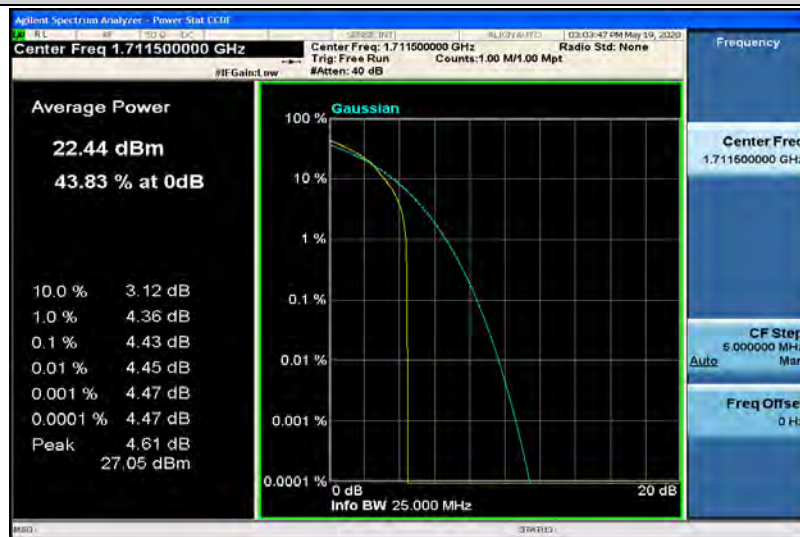
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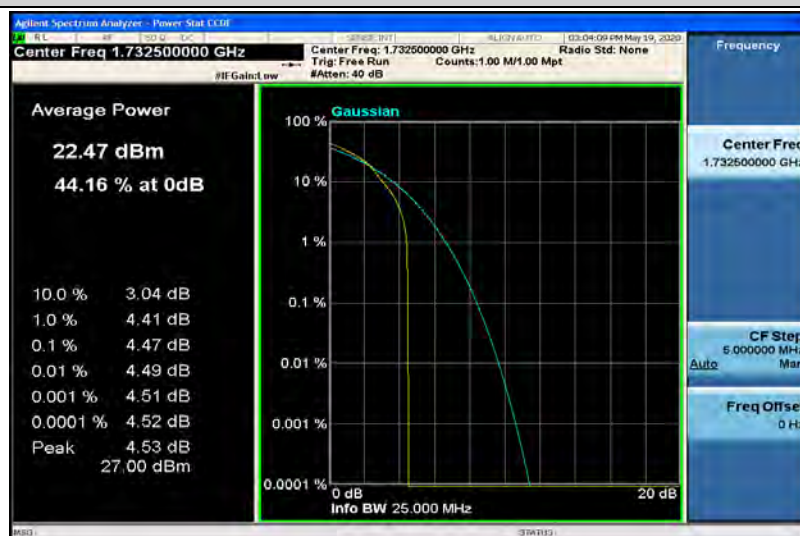
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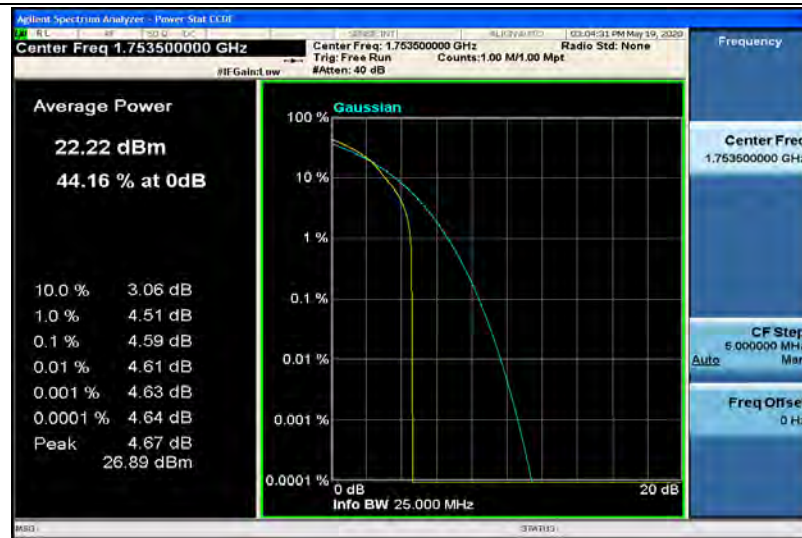
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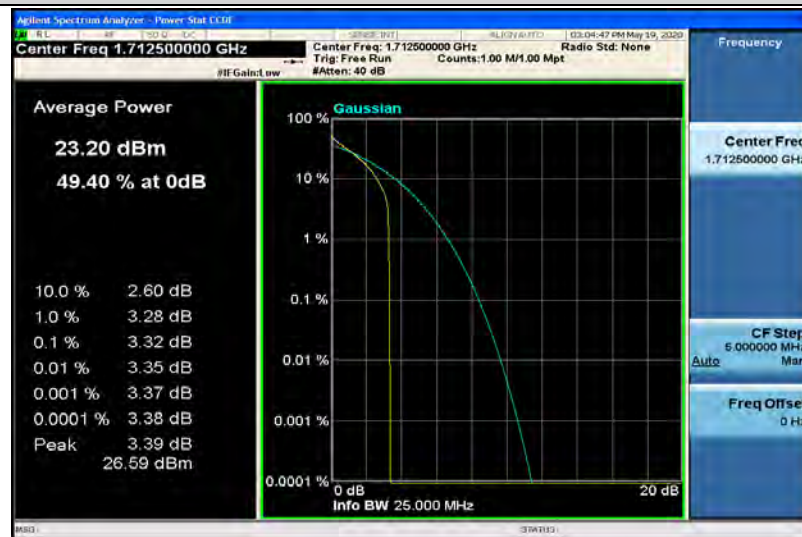
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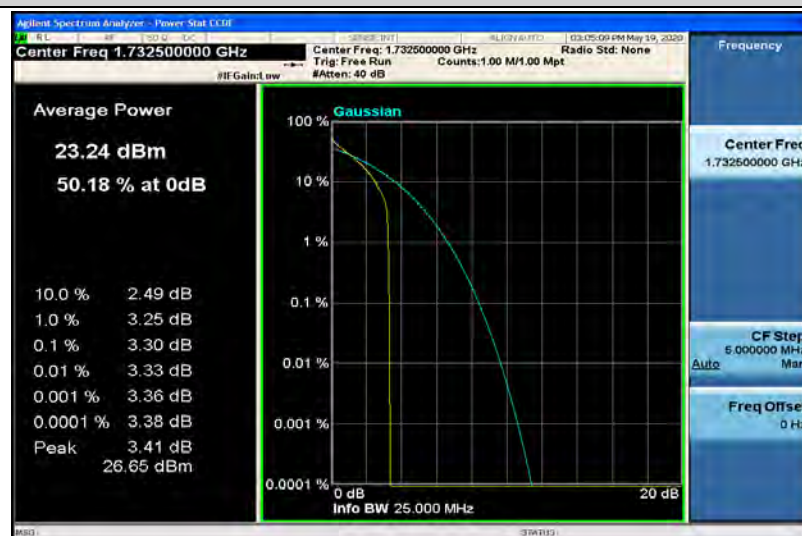
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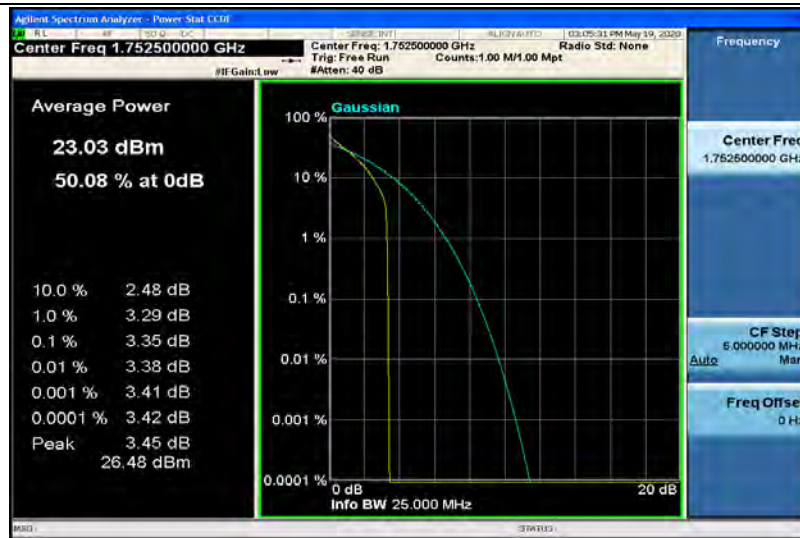
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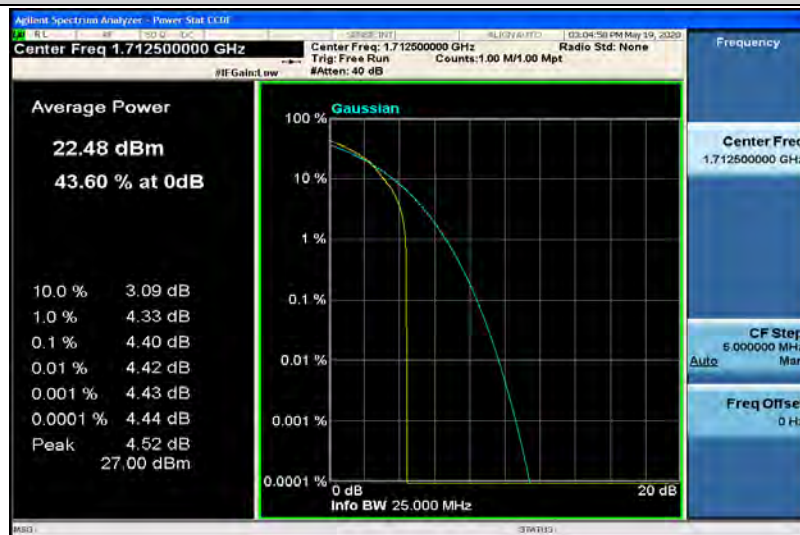
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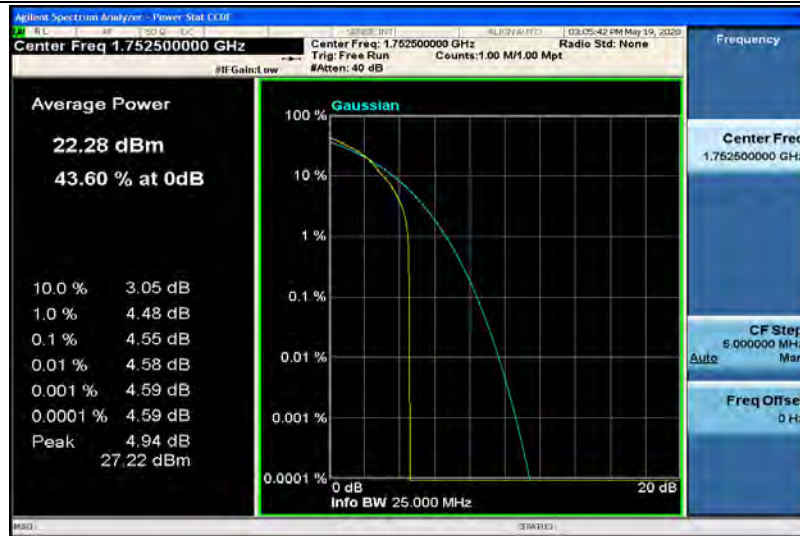
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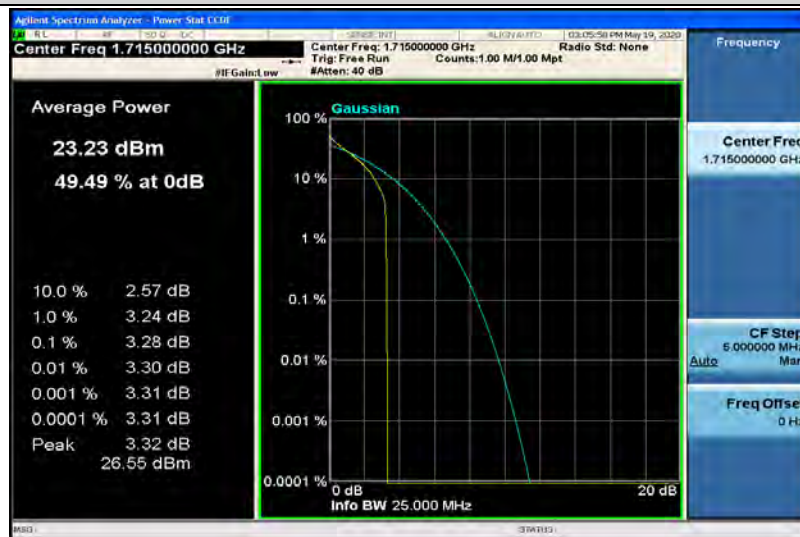
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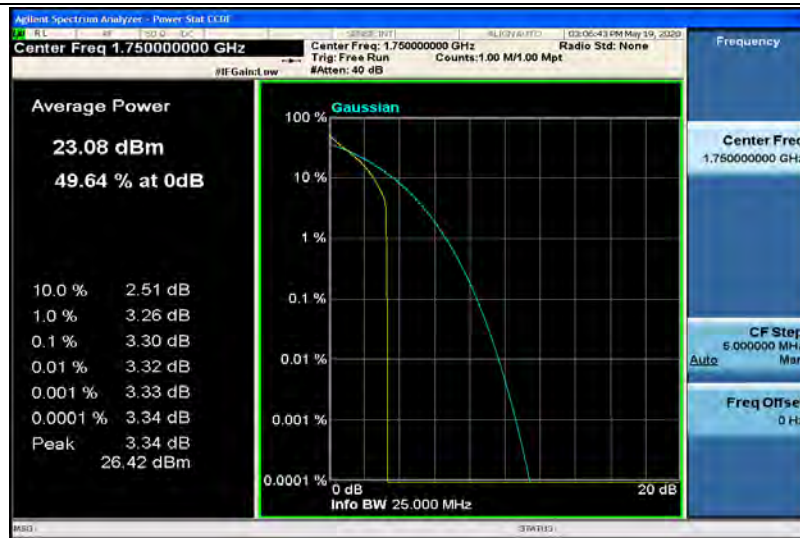
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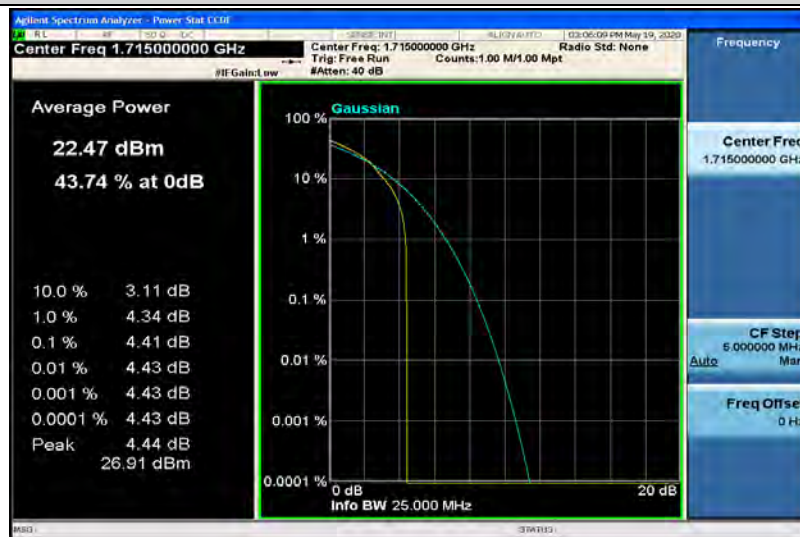
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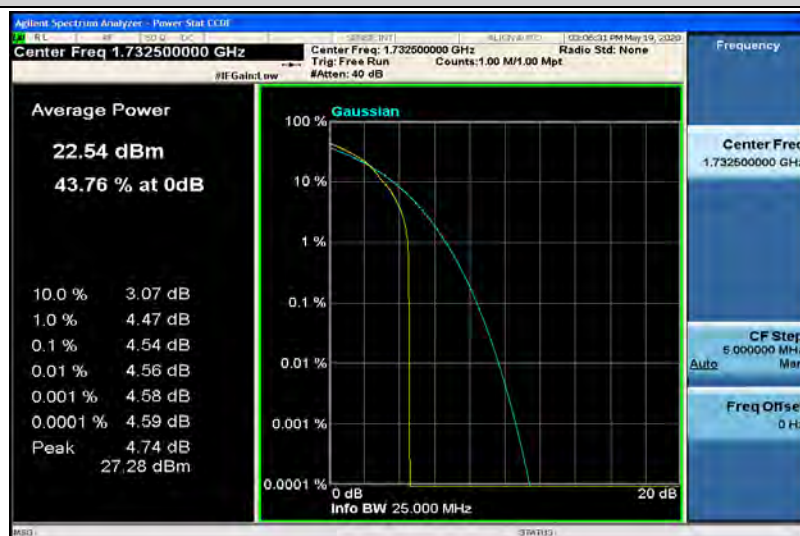
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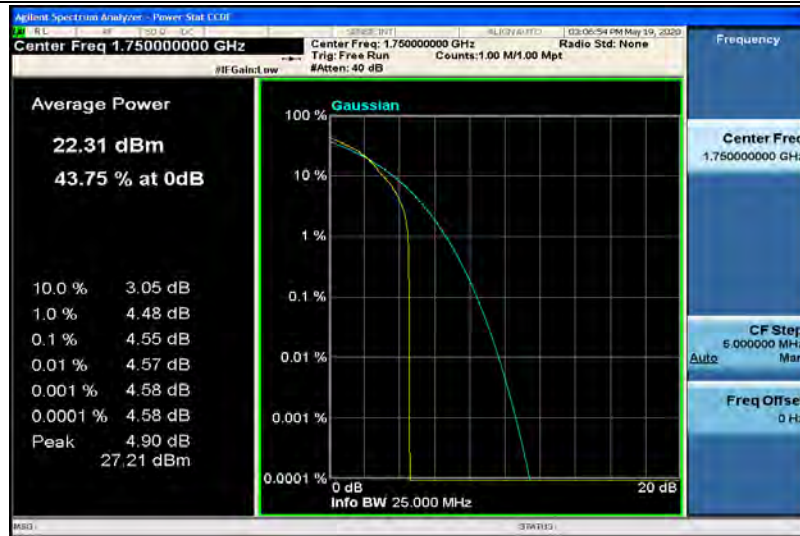
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Band4-10MHz-16QAM-20175-1RB#0



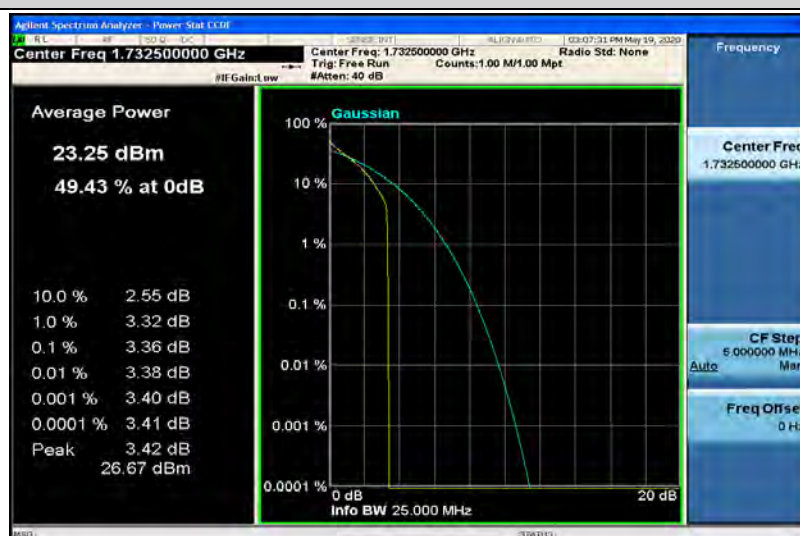
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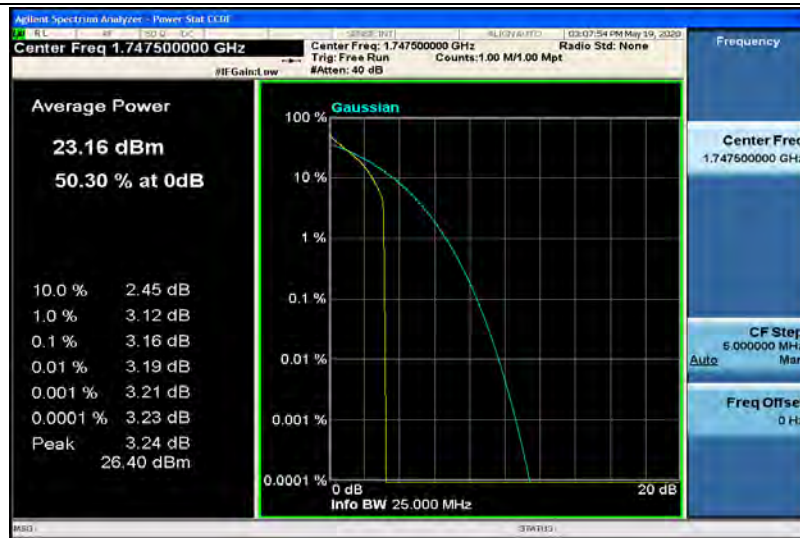
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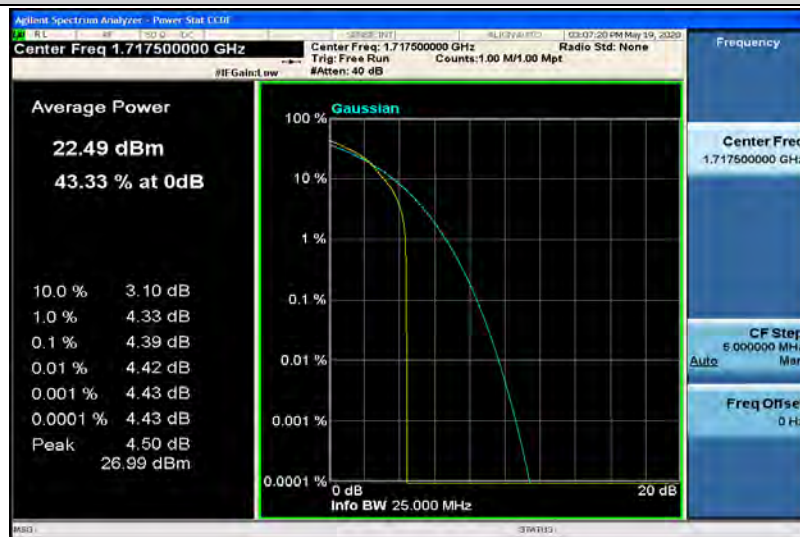
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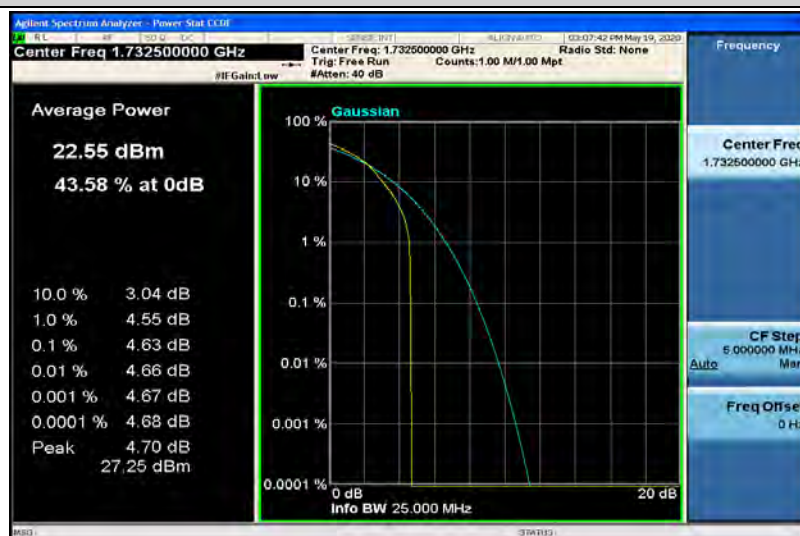
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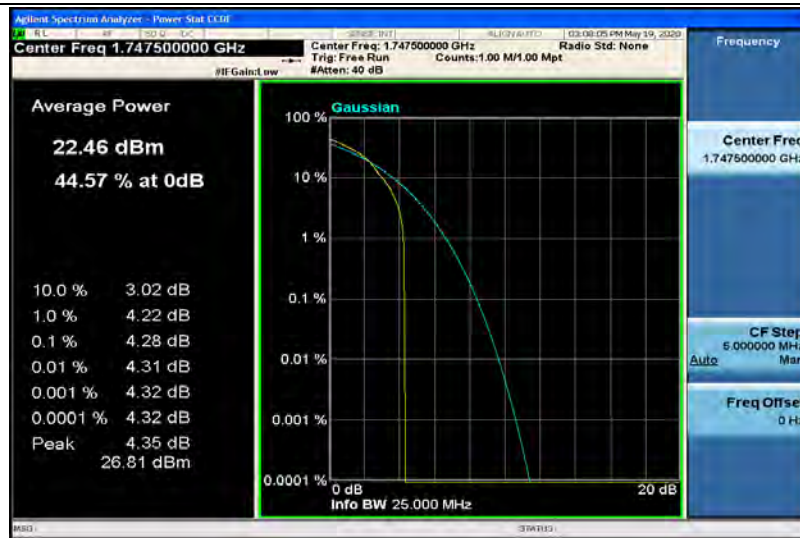
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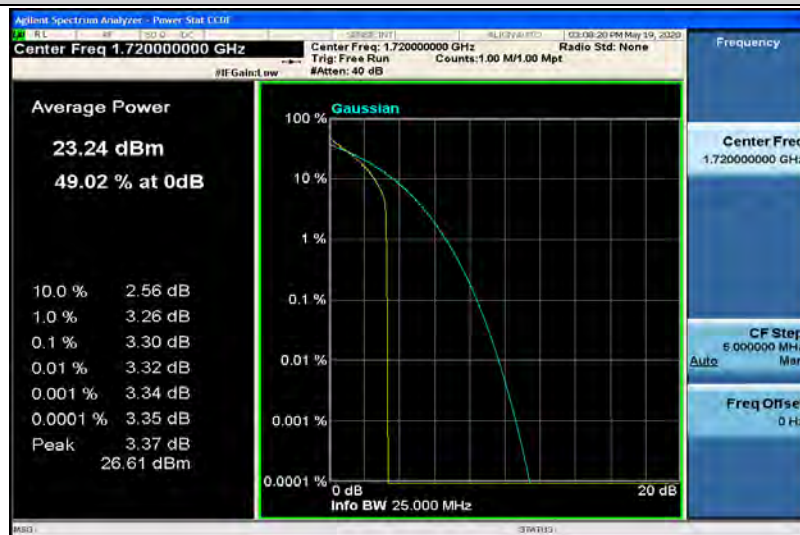
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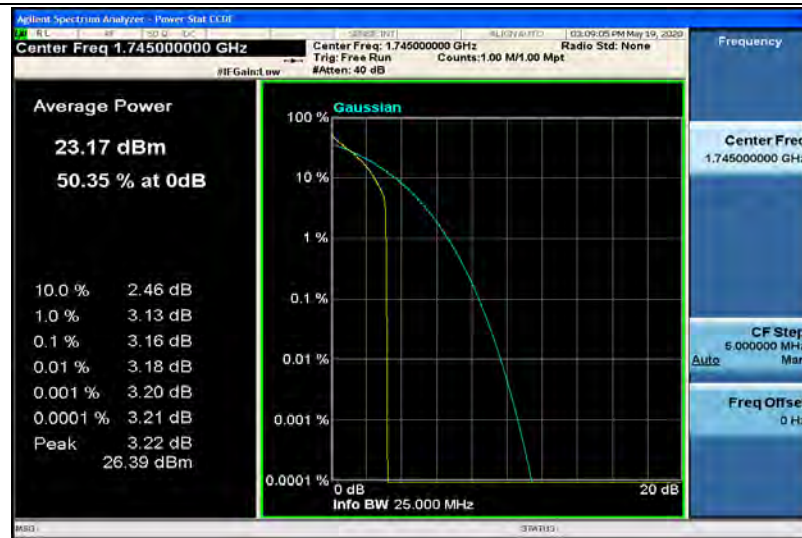
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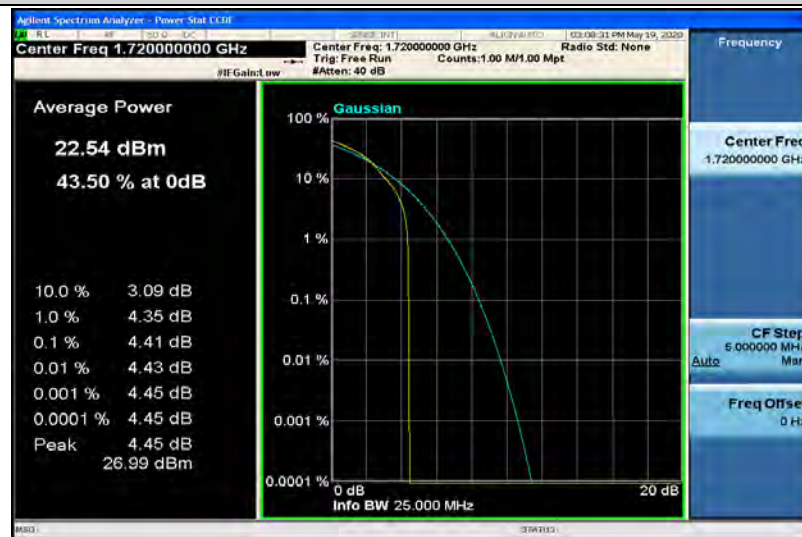
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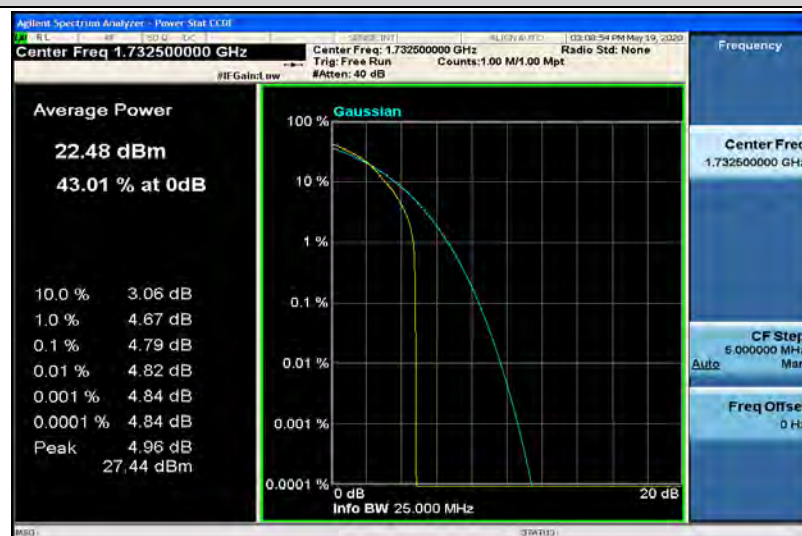
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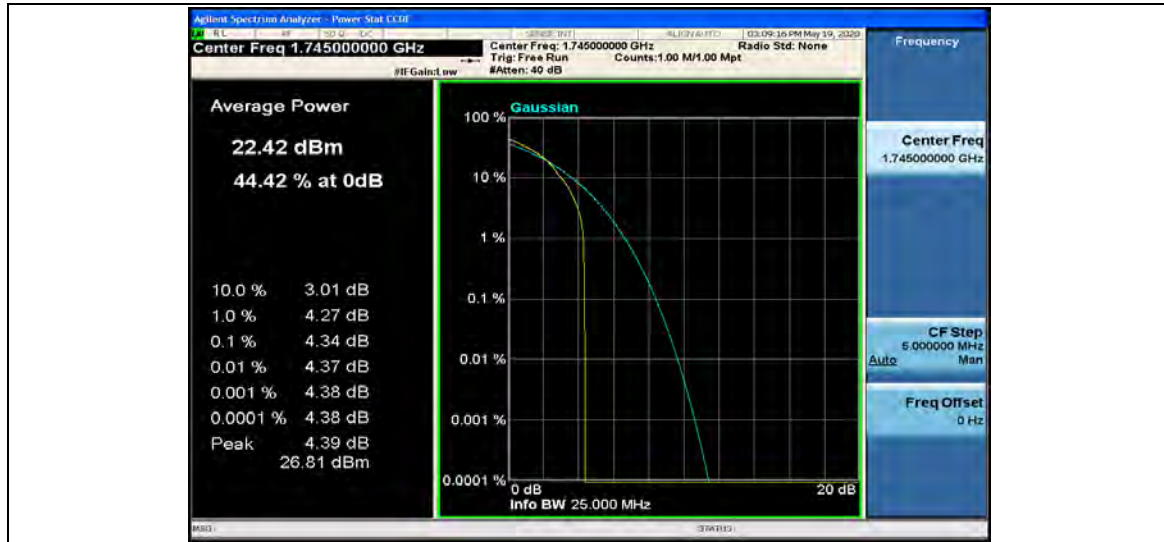
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Band4-20MHz-16QAM-20175-1RB#0



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



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0883	1.222	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0870	1.218	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0885	1.230	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0893	1.220	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0881	1.214	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0905	1.231	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6978	2.946	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6930	2.928	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6959	2.921	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6958	2.915	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6947	2.923	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6944	2.926	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5006	4.859	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4933	4.849	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5000	4.852	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5130	4.905	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5105	4.884	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5165	4.929	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9737	9.575	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9664	9.544	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9896	9.541	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9921	9.567	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9735	9.550	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9932	9.560	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.507	14.30	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.463	14.27	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.495	14.30	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.488	14.30	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.447	14.24	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.486	14.28	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.972	19.04	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.888	18.95	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.944	18.96	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.984	19.04	PASS



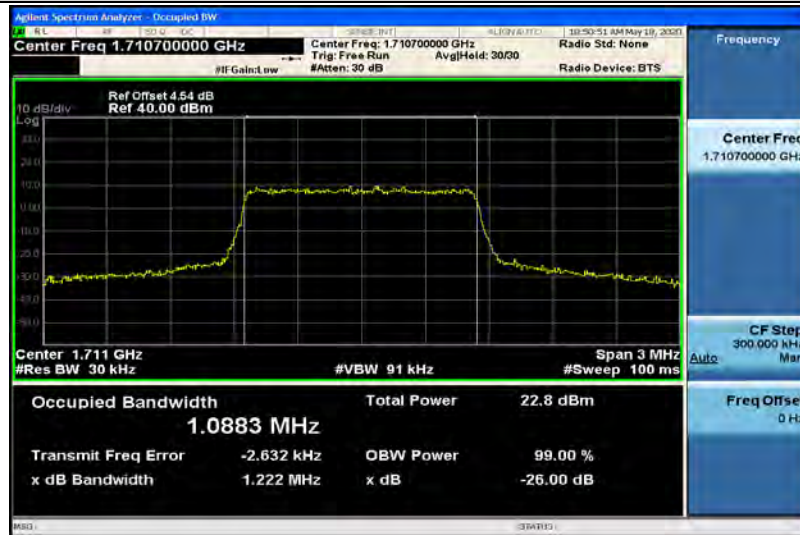
Report Number: 2006FR11
Rev.01

Band4	20MHz	16QAM	20175	100RB#0	17.893	18.96	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.958	18.98	PASS

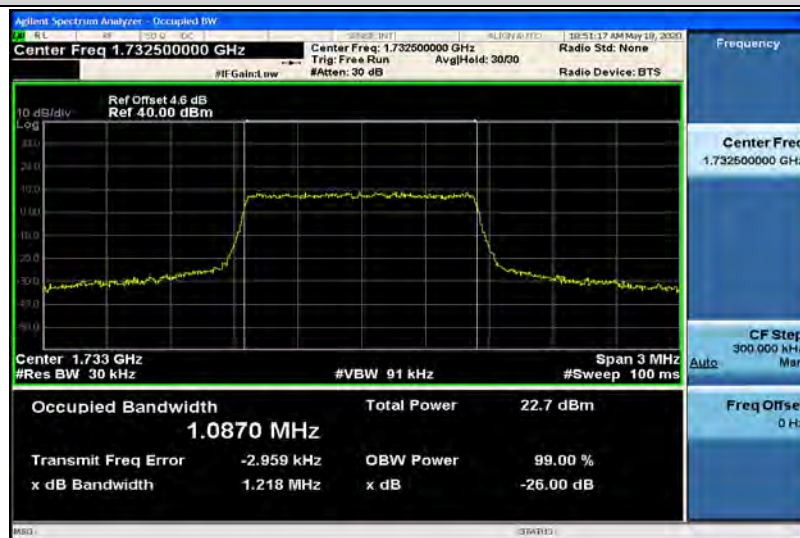


Test Graphs

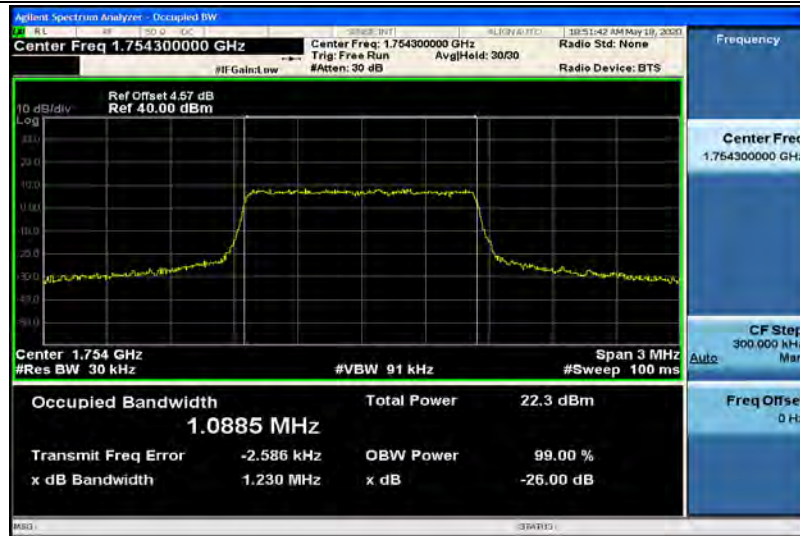
Band4-1.4MHz-QPSK-19957-6RB#0-1.0883



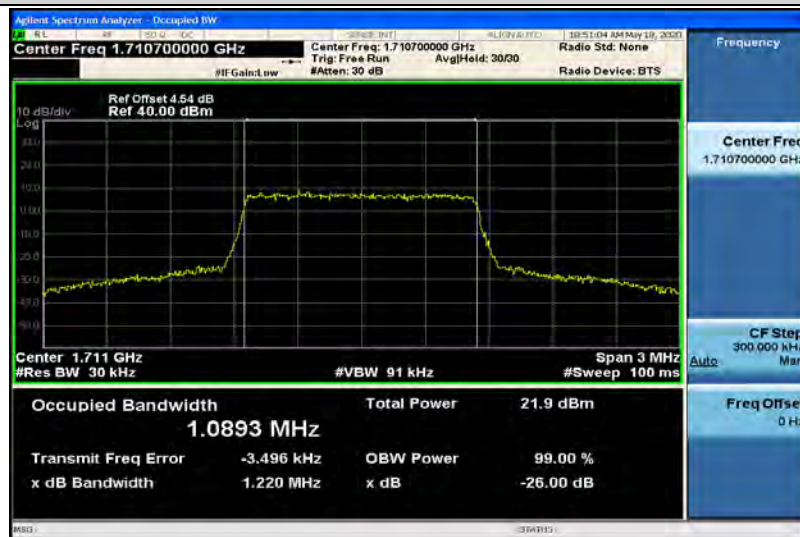
Band4-1.4MHz-QPSK-20175-6RB#0-1.0870



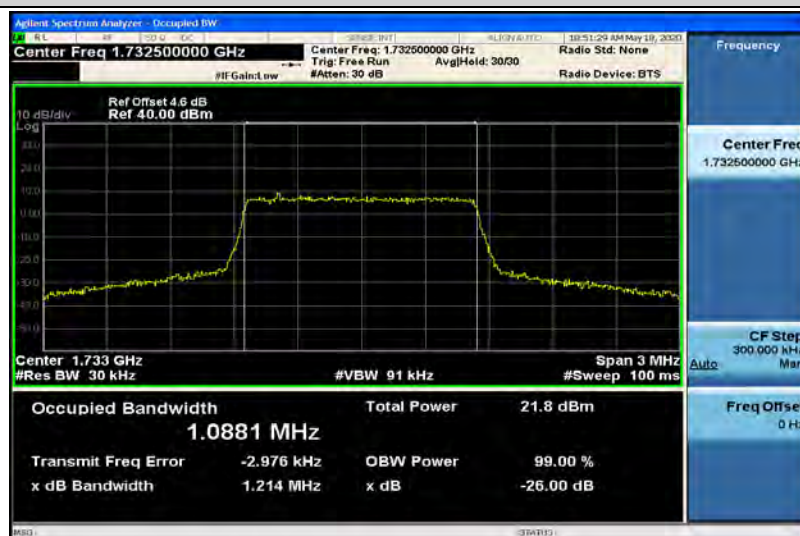
Band4-1.4MHz-QPSK-20393-6RB#0-1.0885



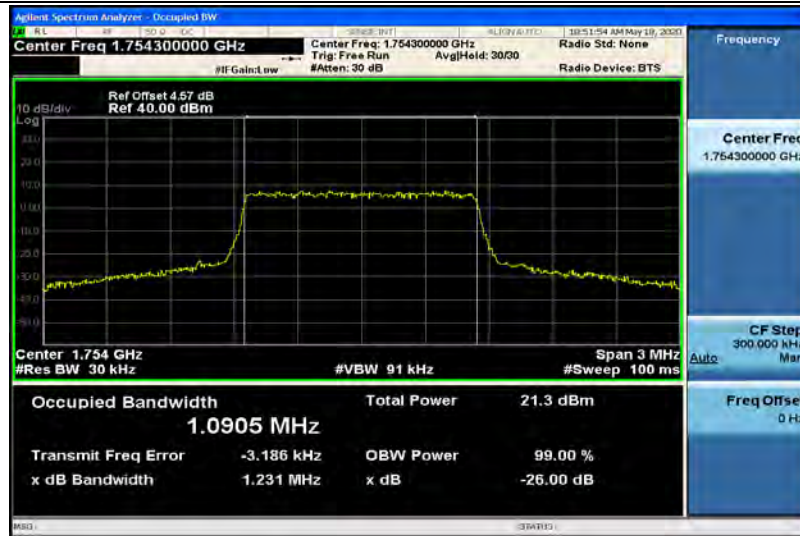
Band4-1.4MHz-16QAM-19957-6RB#0-1.0893



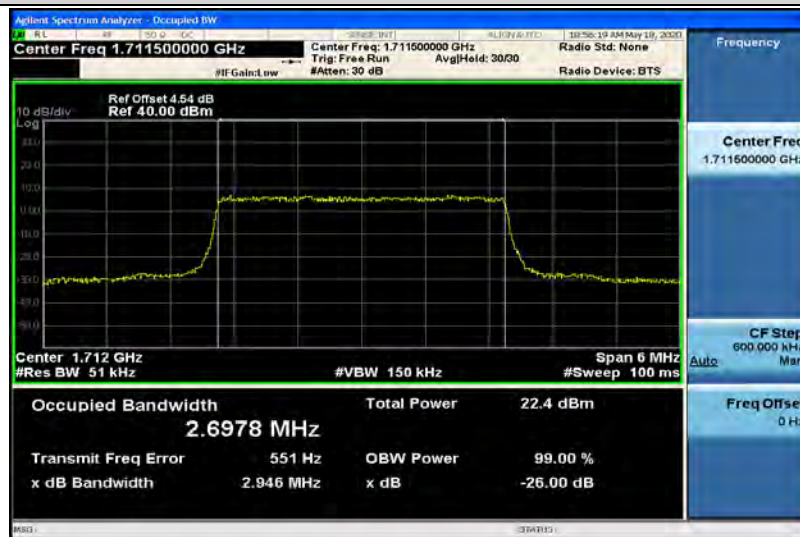
Band4-1.4MHz-16QAM-20175-6RB#0-1.0881



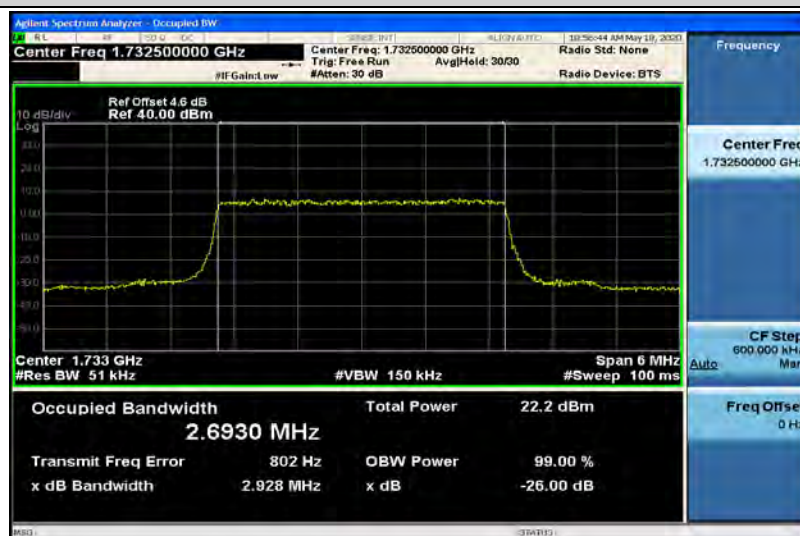
Band4-1.4MHz-16QAM-20393-6RB#0-1.0905



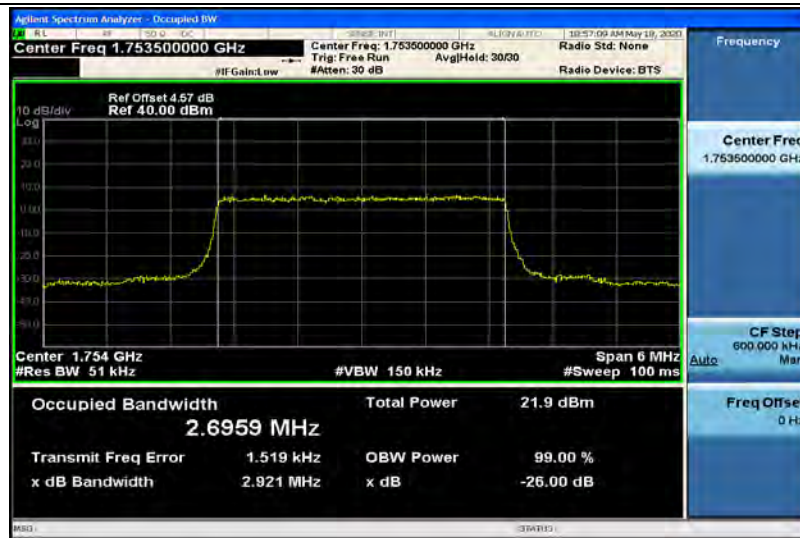
Band4-3MHz-QPSK-19965-15RB#0-2.6978



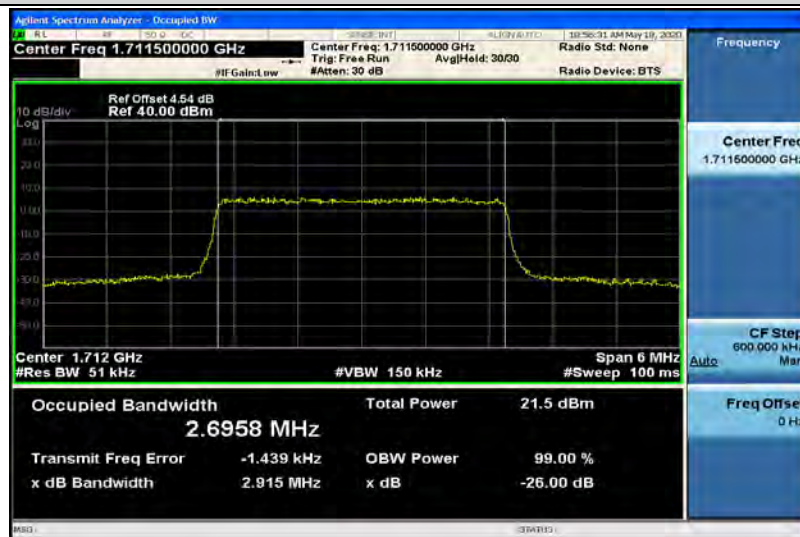
Band4-3MHz-QPSK-20175-15RB#0-2.6930



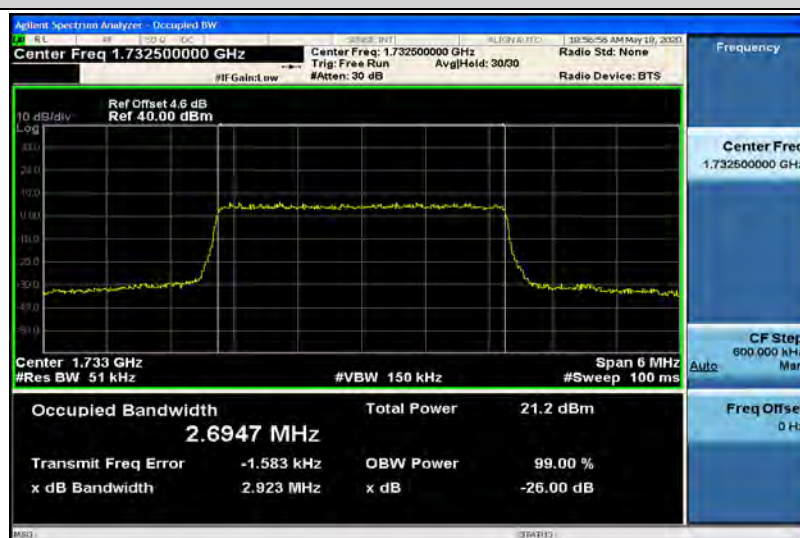
Band4-3MHz-QPSK-20385-15RB#0-2.6959



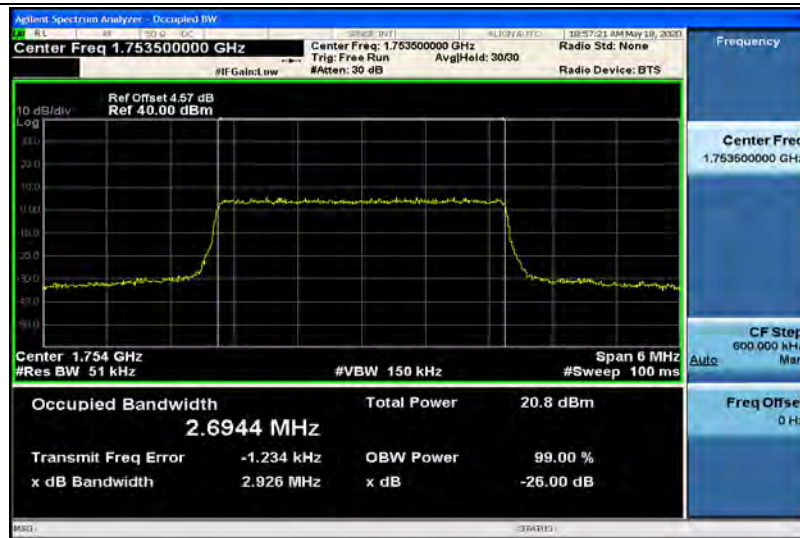
Band4-3MHz-16QAM-19965-15RB#0-2.6958



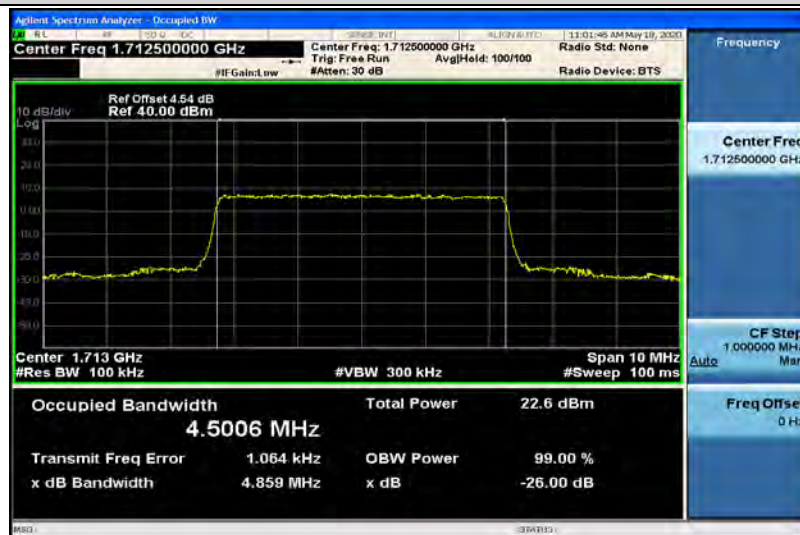
Band4-3MHz-16QAM-20175-15RB#0-2.6947



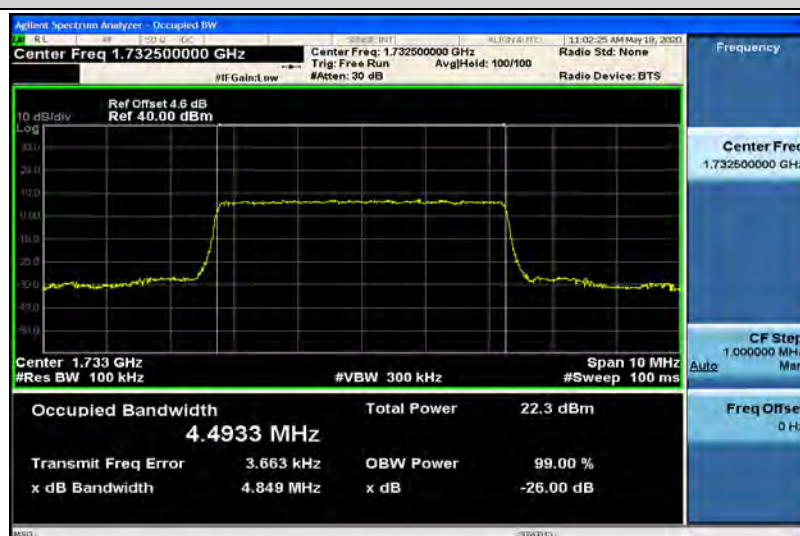
Band4-3MHz-16QAM-20385-15RB#0-2.6944



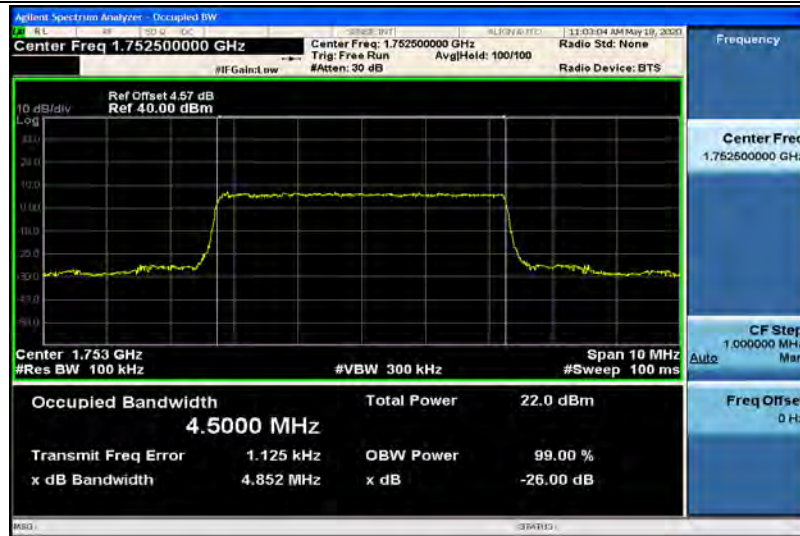
Band4-5MHz-QPSK-19975-25RB#0-4.5006



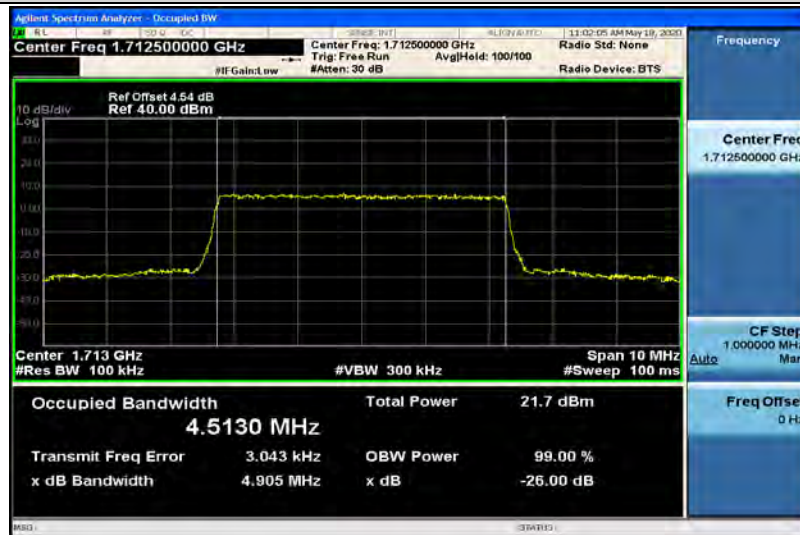
Band4-5MHz-QPSK-20175-25RB#0-4.4933



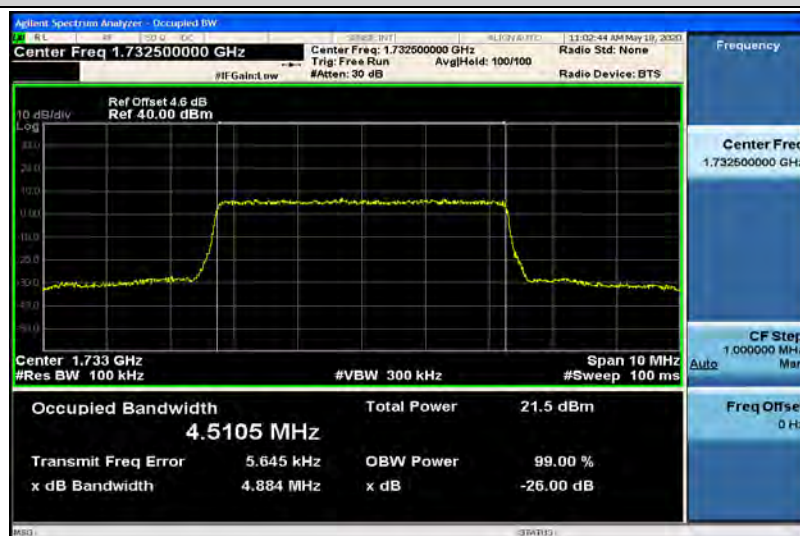
Band4-5MHz-QPSK-20375-25RB#0-4.5000



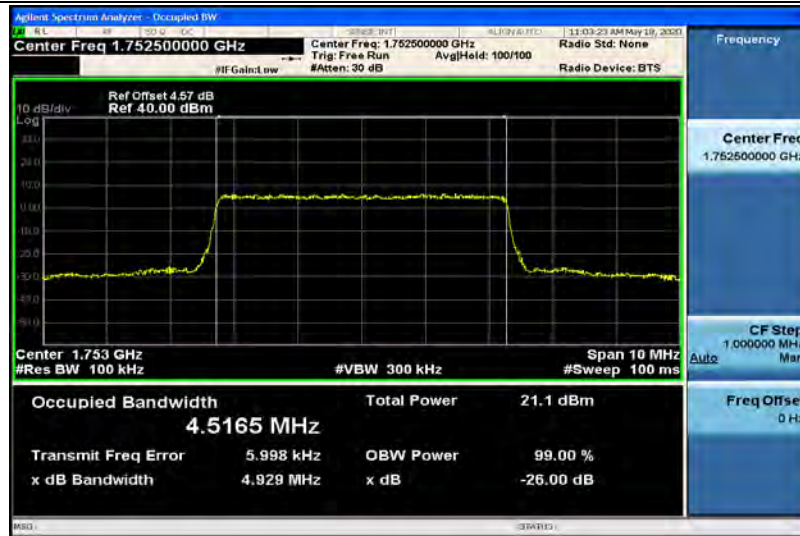
Band4-5MHz-16QAM-19975-25RB#0-4.5130



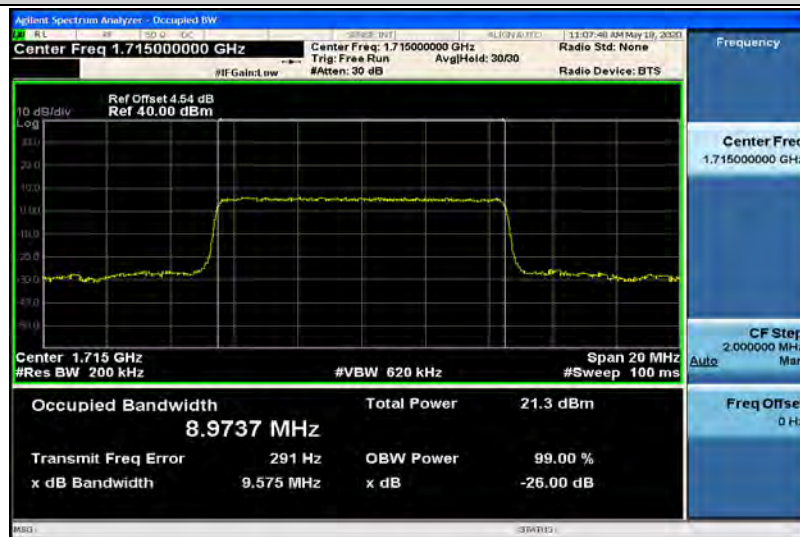
Band4-5MHz-16QAM-20175-25RB#0-4.5105



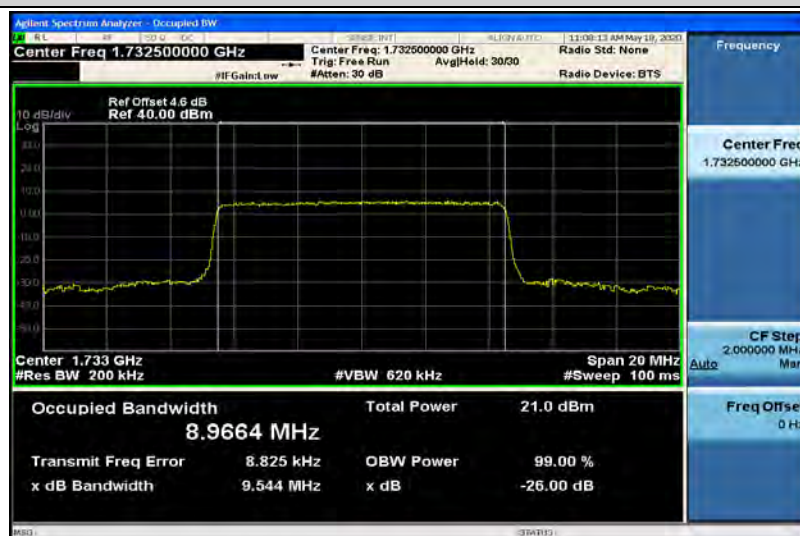
Band4-5MHz-16QAM-20375-25RB#0-4.5165



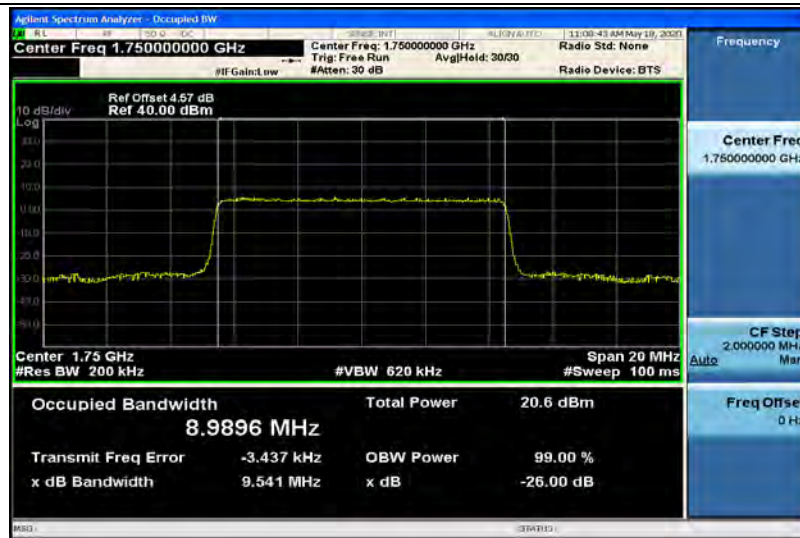
Band4-10MHz-QPSK-20000-50RB#0-8.9737



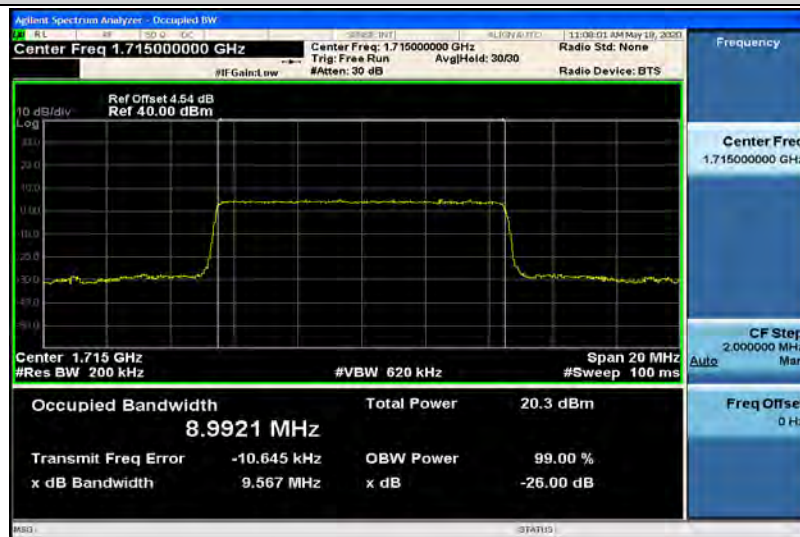
Band4-10MHz-QPSK-20175-50RB#0-8.9664



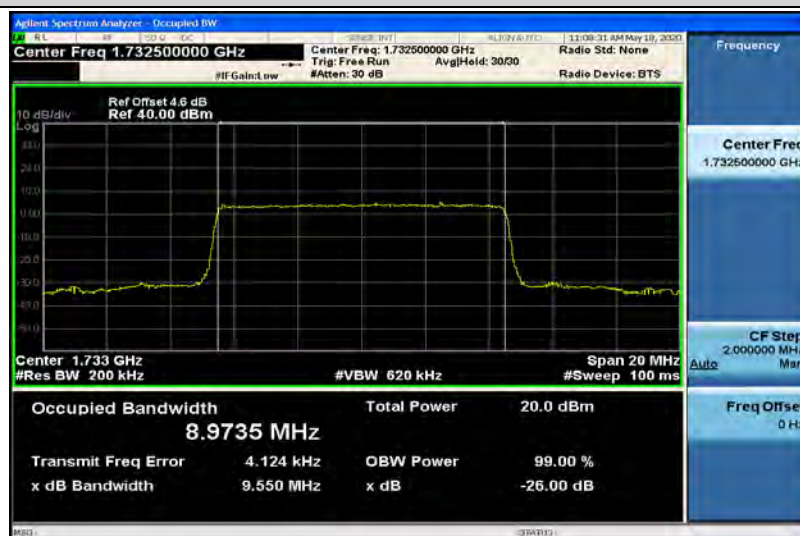
Band4-10MHz-QPSK-20350-50RB#0-8.9896



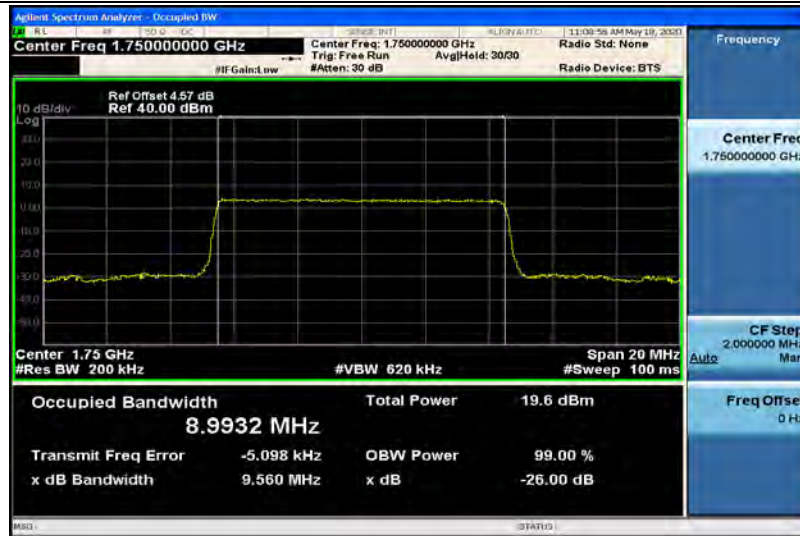
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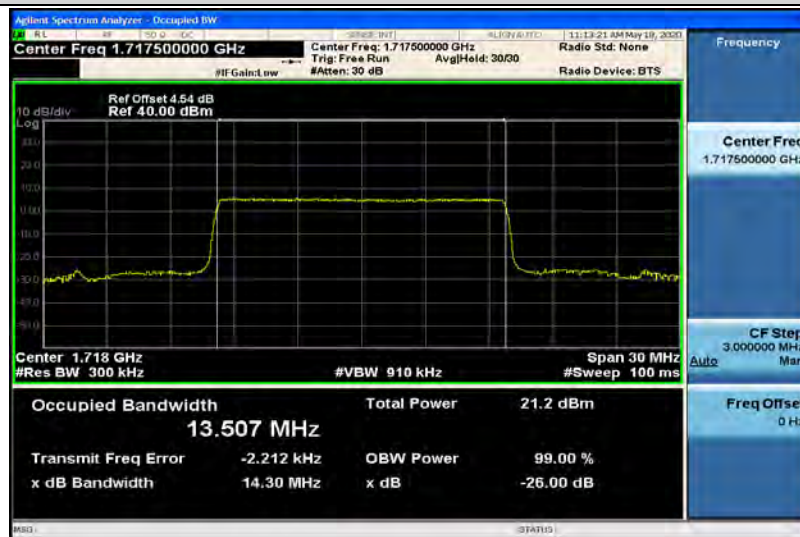
Band4-10MHz-16QAM-20175-50RB#0-8.9735



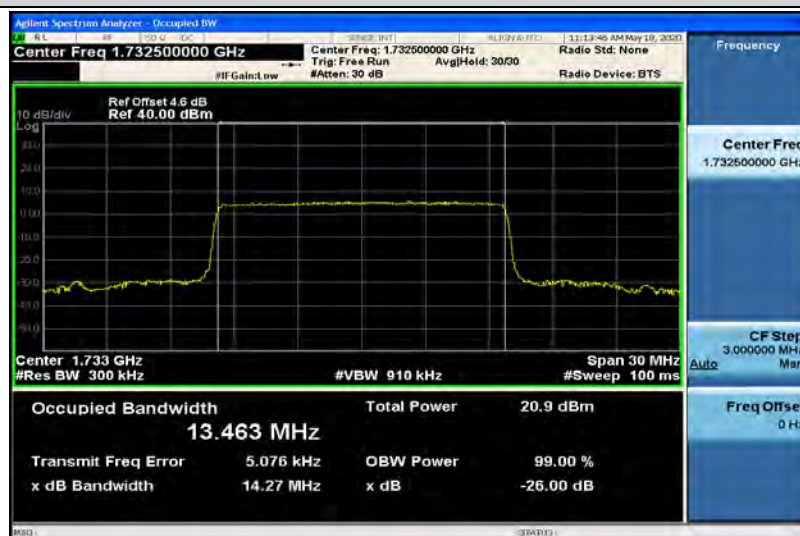
Band4-10MHz-16QAM-20350-50RB#0-8.9932



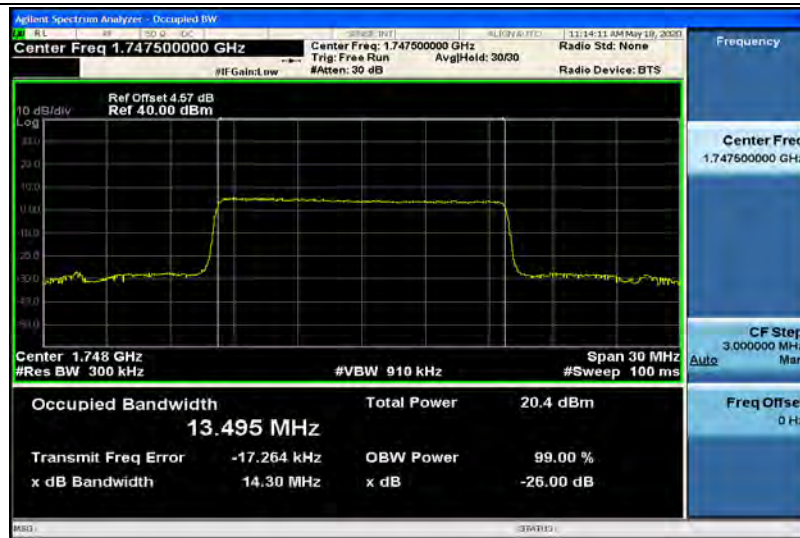
Band4-15MHz-QPSK-20025-75RB#0-13.507



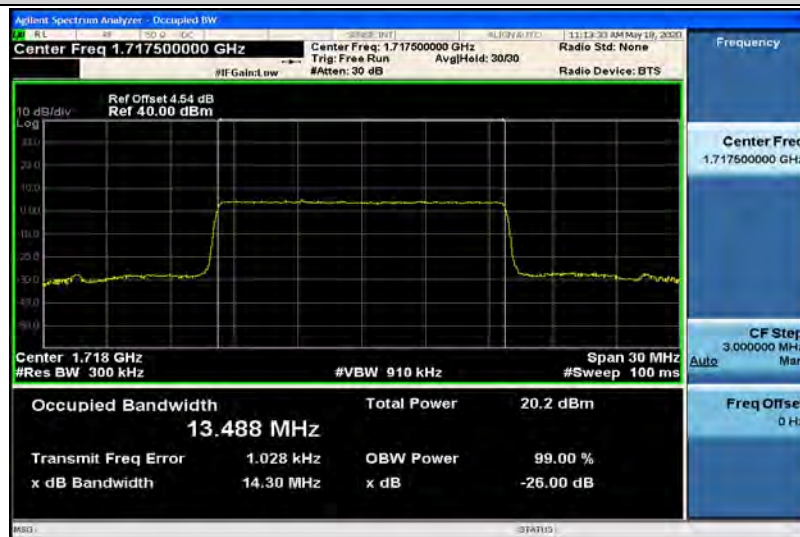
Band4-15MHz-QPSK-20175-75RB#0-13.463



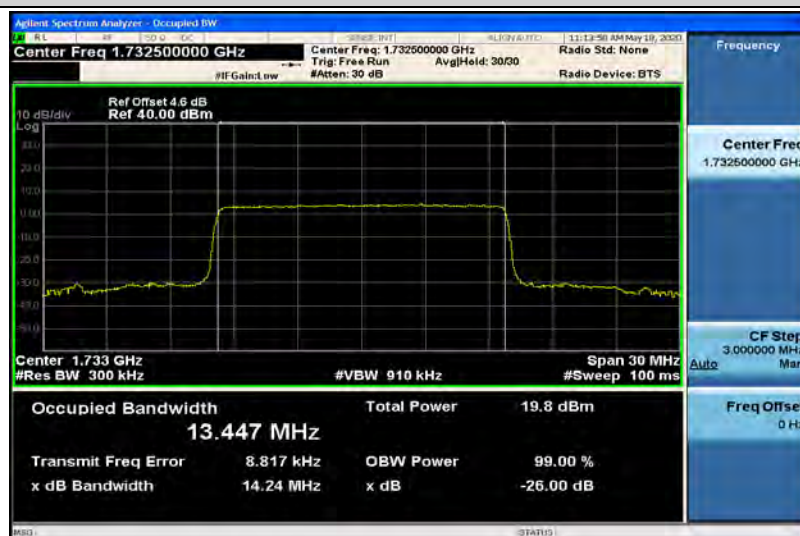
Band4-15MHz-QPSK-20325-75RB#0-13.495



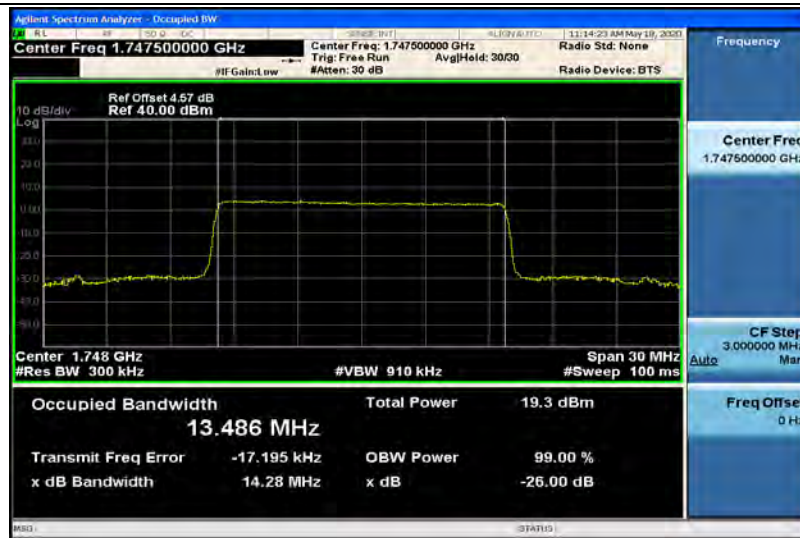
Band4-15MHz-16QAM-20025-75RB#0-13.488



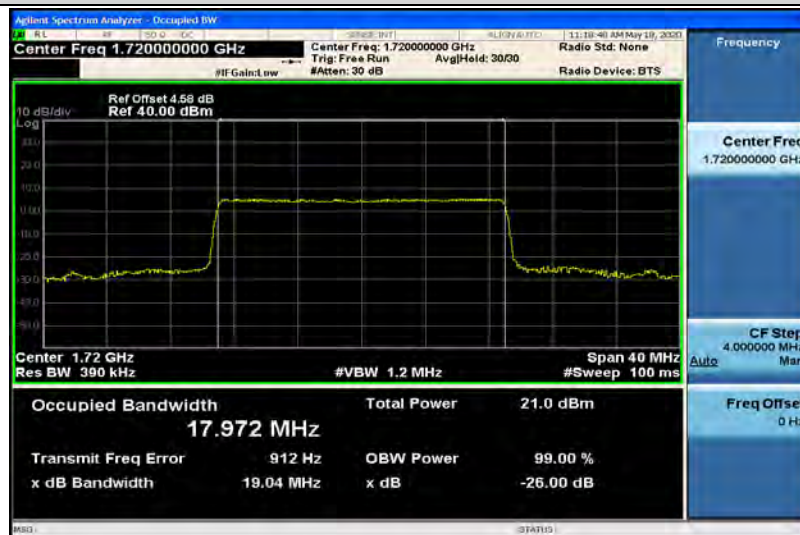
Band4-15MHz-16QAM-20175-75RB#0-13.447



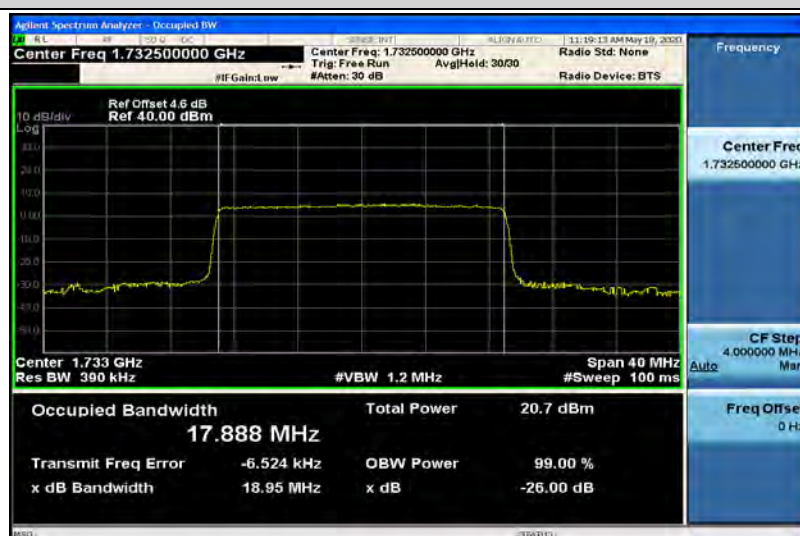
Band4-15MHz-16QAM-20325-75RB#0-13.486



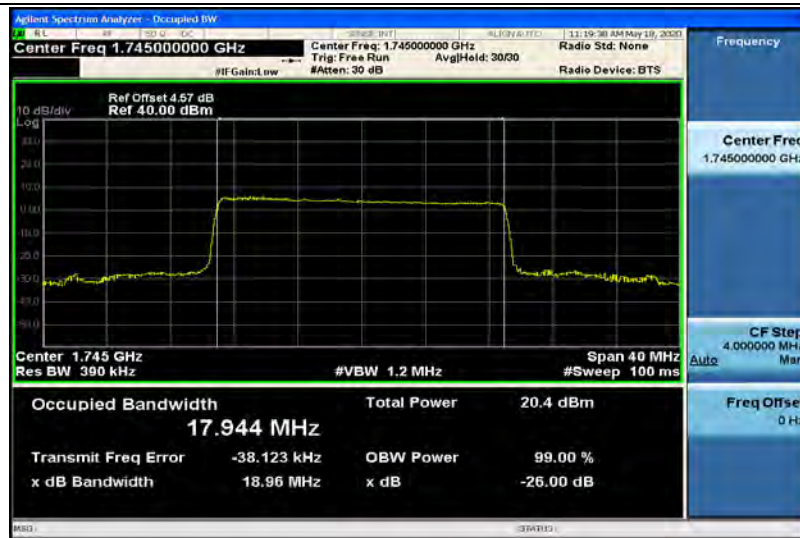
Band4-20MHz-QPSK-20050-100RB#0-17.972



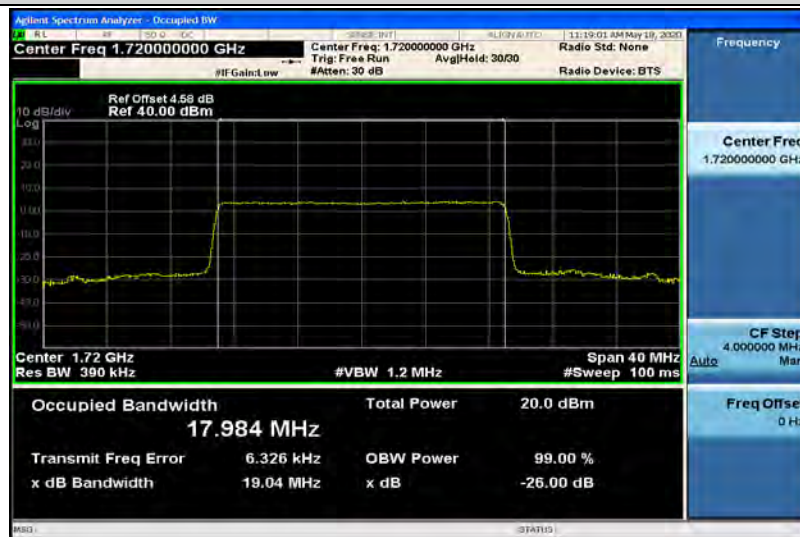
Band4-20MHz-QPSK-20175-100RB#0-17.888



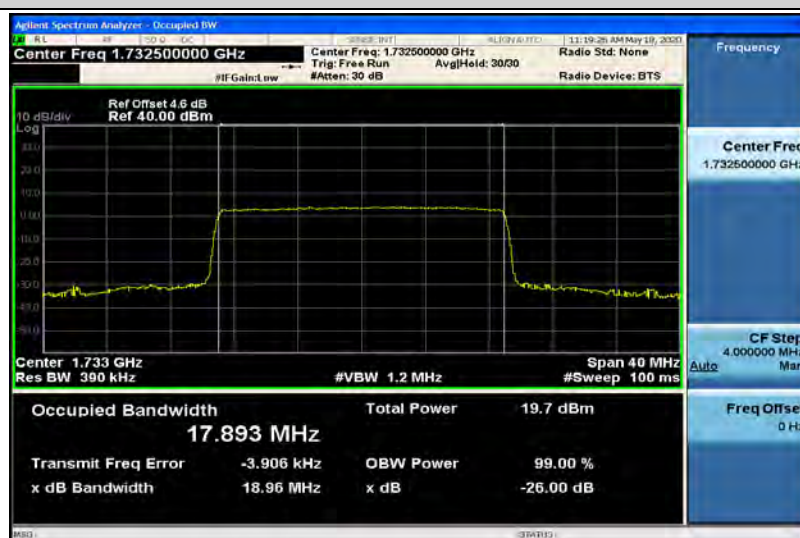
Band4-20MHz-QPSK-20300-100RB#0-17.944



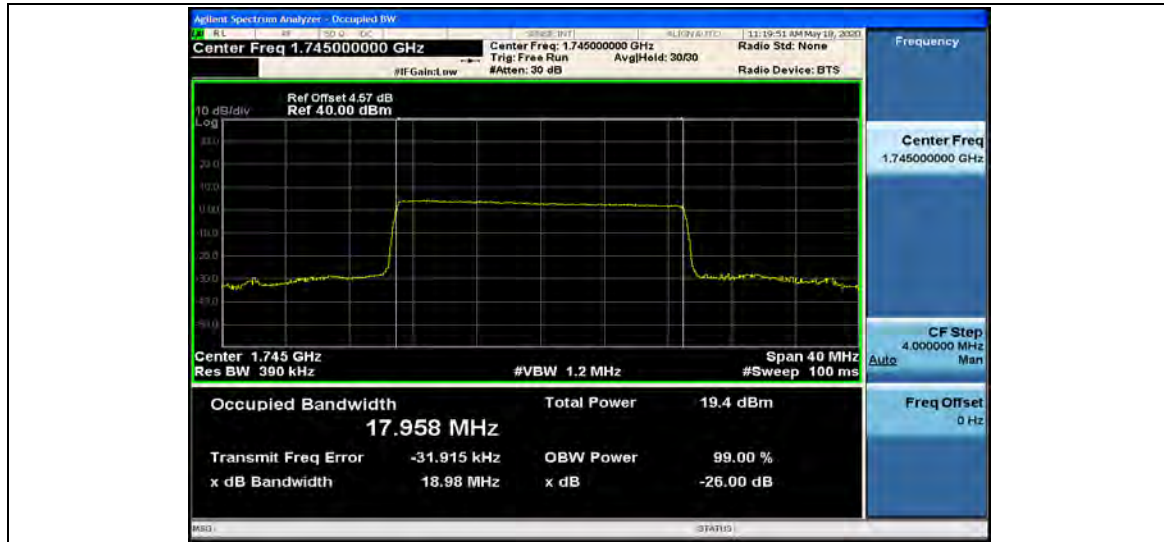
Band4-20MHz-16QAM-20050-100RB#0-17.984



Band4-20MHz-16QAM-20175-100RB#0-17.893



Band4-20MHz-16QAM-20300-100RB#0-17.958



Appendix D: Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20393-1RB#5



Band4-1.4MHz-QPSK-20393-6RB#0



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



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



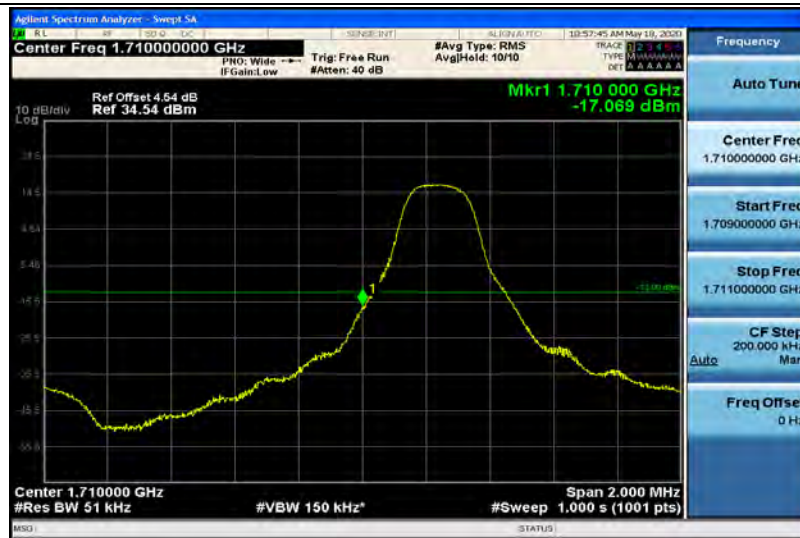
Band4-1.4MHz-16QAM-20393-1RB#5



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



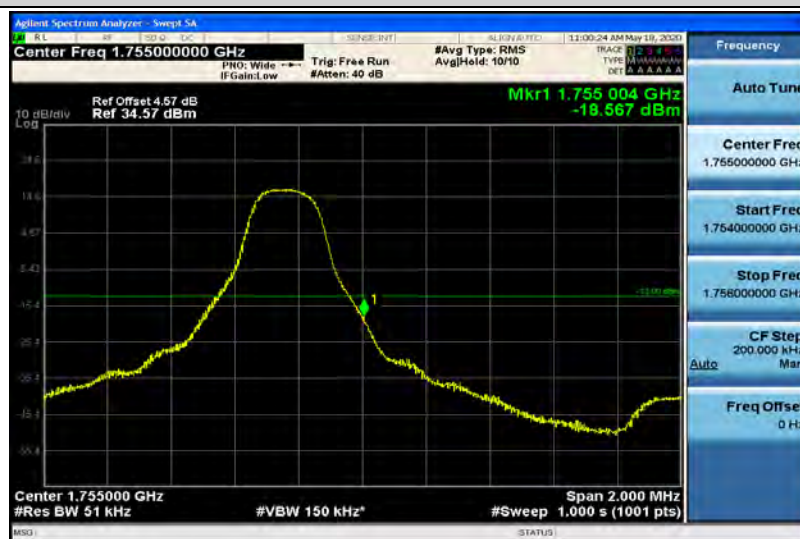
Band4-3MHz-QPSK-19965-1RB#0



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



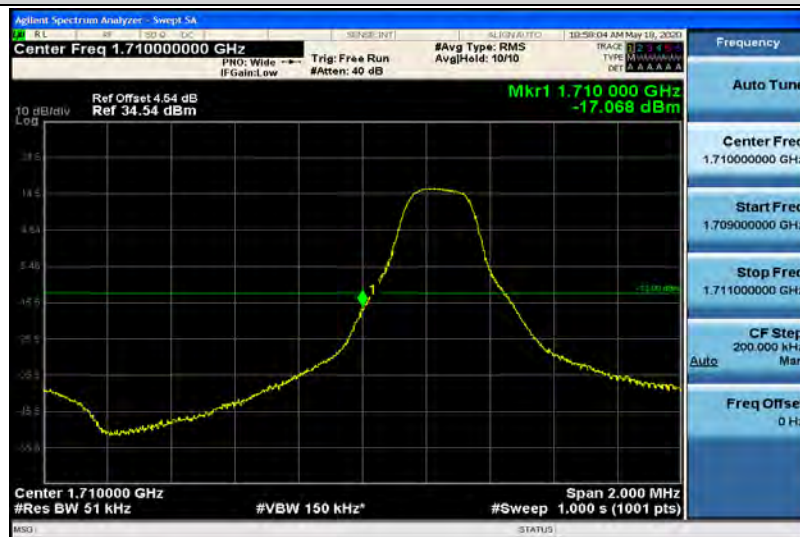
Band4-3MHz-QPSK-20385-1RB#14



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



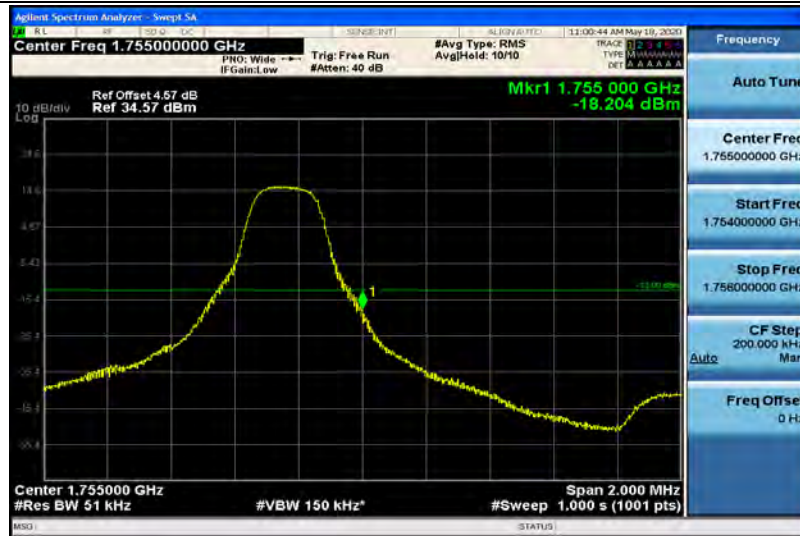
Band4-3MHz-16QAM-19965-1RB#0



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



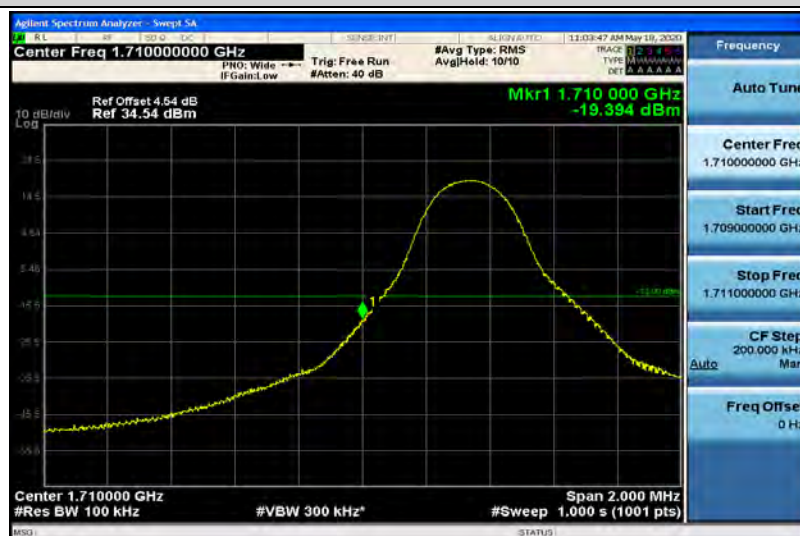
Band4-3MHz-16QAM-20385-1RB#14



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



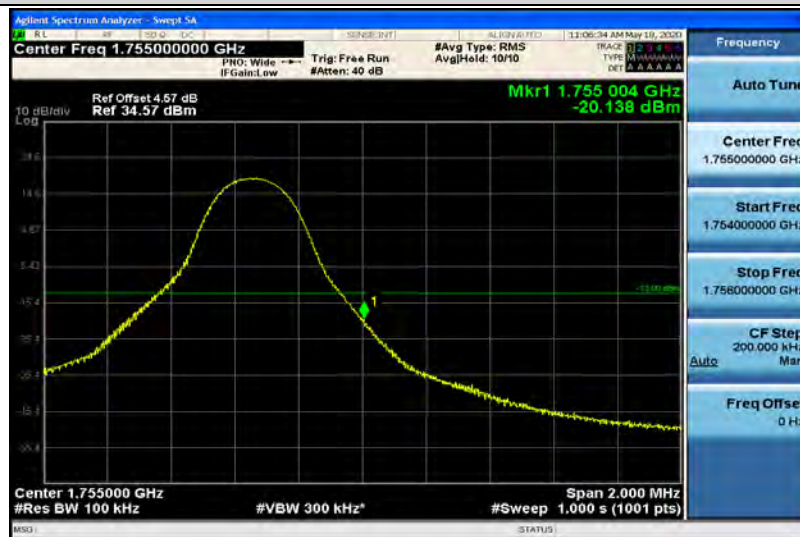
Band4-5MHz-QPSK-19975-1RB#0



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



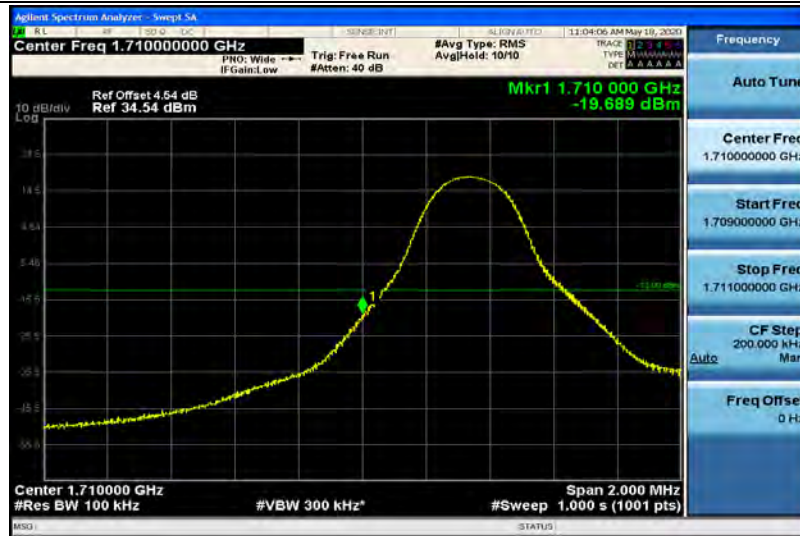
Band4-5MHz-QPSK-20375-1RB#24



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



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



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



Band4-5MHz-16QAM-20375-1RB#24



Band4-5MHz-16QAM-20375-25RB#0



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



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



Band4-10MHz-QPSK-20350-1RB#49



Band4-10MHz-QPSK-20350-50RB#0



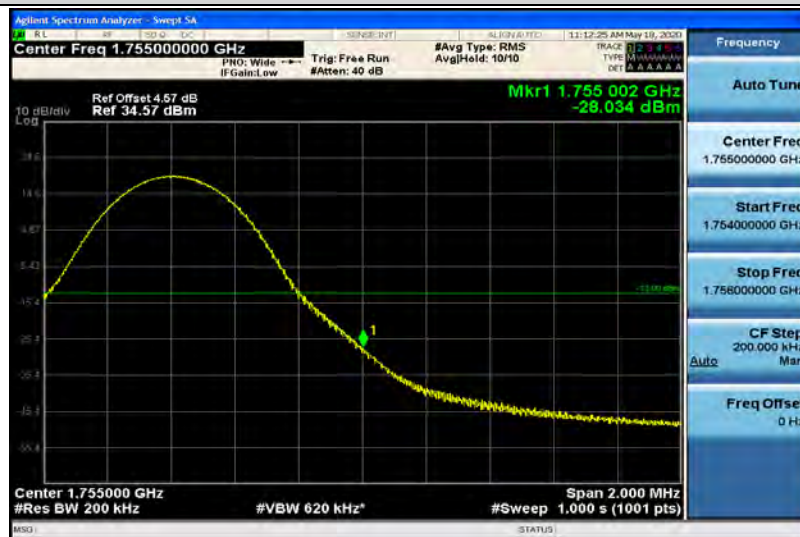
Band4-10MHz-16QAM-20000-1RB#0



Band4-10MHz-16QAM-20000-50RB#0



Band4-10MHz-16QAM-20350-1RB#49



Band4-10MHz-16QAM-20350-50RB#0



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



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



Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0



Band4-15MHz-16QAM-20025-1RB#0



Band4-15MHz-16QAM-20025-75RB#0



Band4-15MHz-16QAM-20325-1RB#74



Band4-15MHz-16QAM-20325-75RB#0



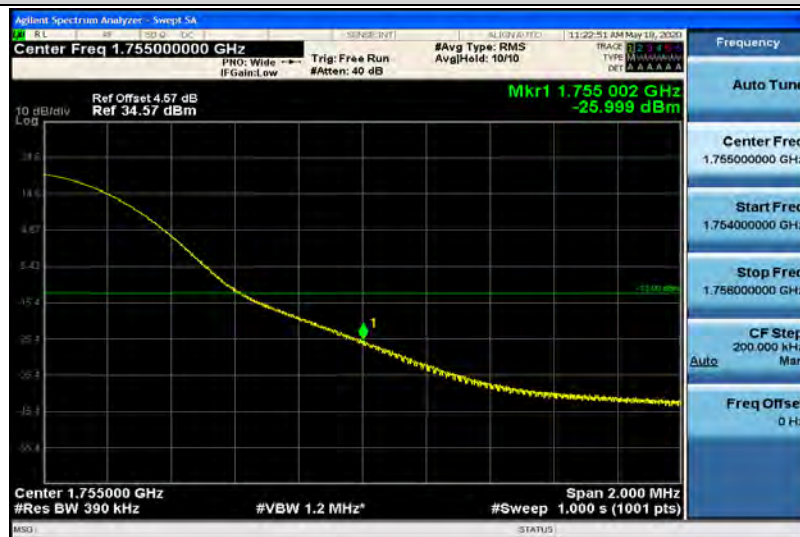
Band4-20MHz-QPSK-20050-1RB#0



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



Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-1RB#0



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



Band4-20MHz-16QAM-20300-1RB#99



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



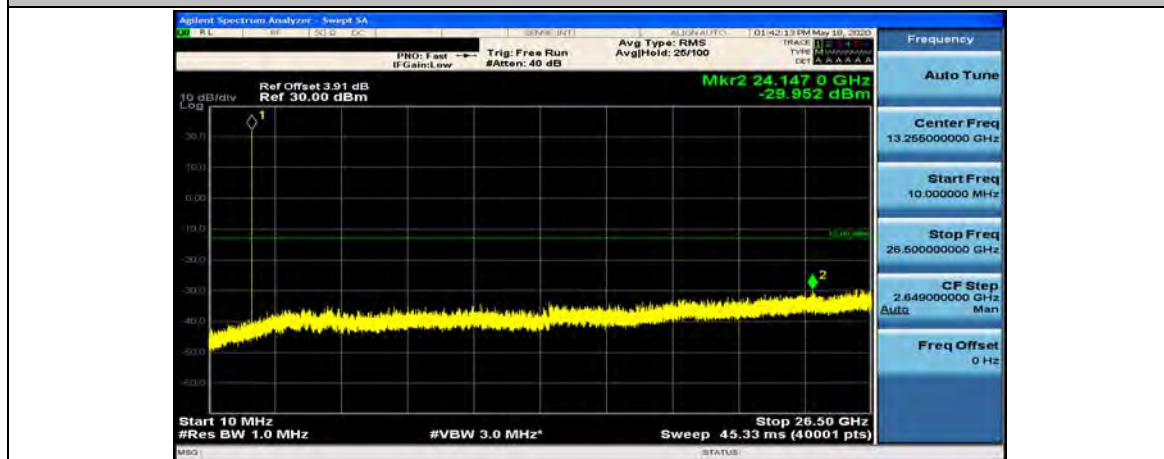


Appendix E: Conducted Spurious Emission

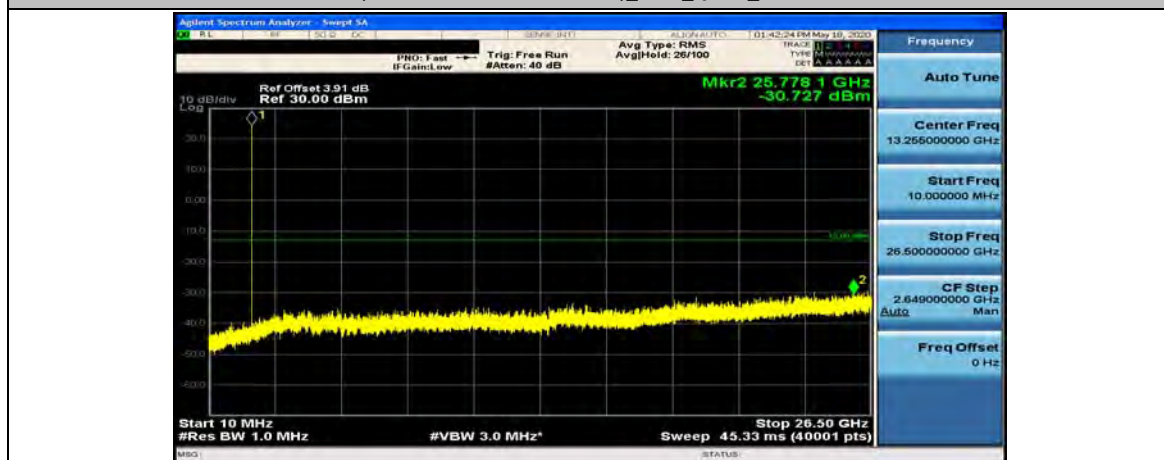
Test Graphs

Channel Bandwidth: 1.4 MHz

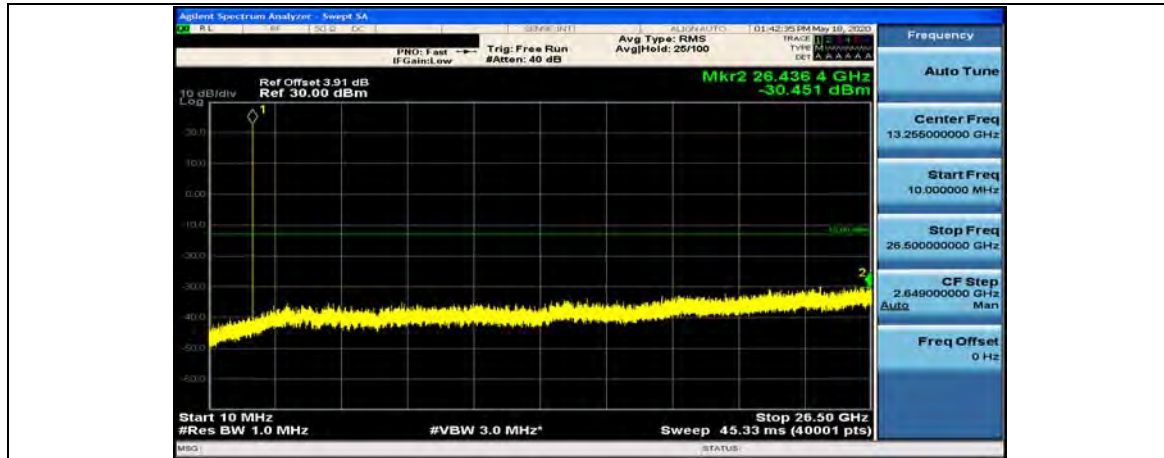
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

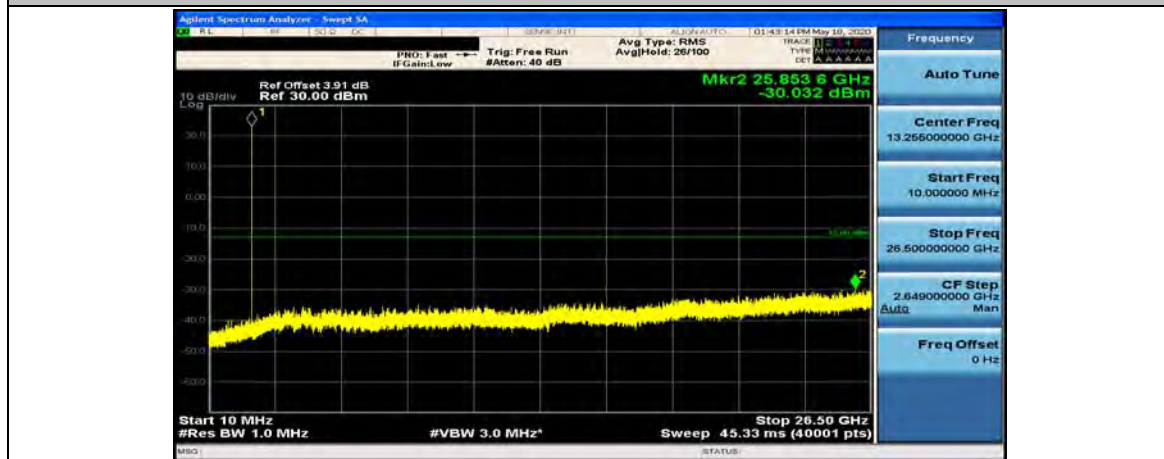


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

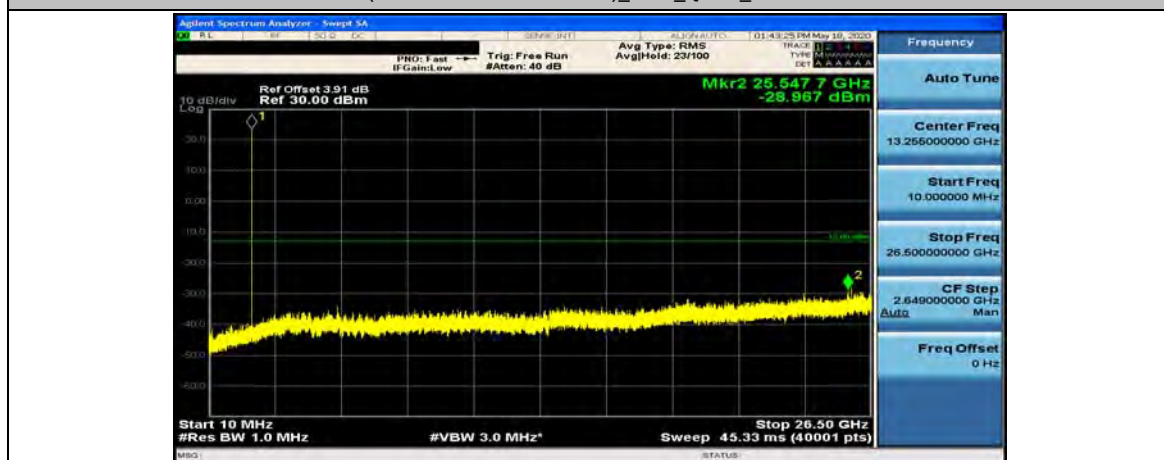


Channel Bandwidth: 3 MHz

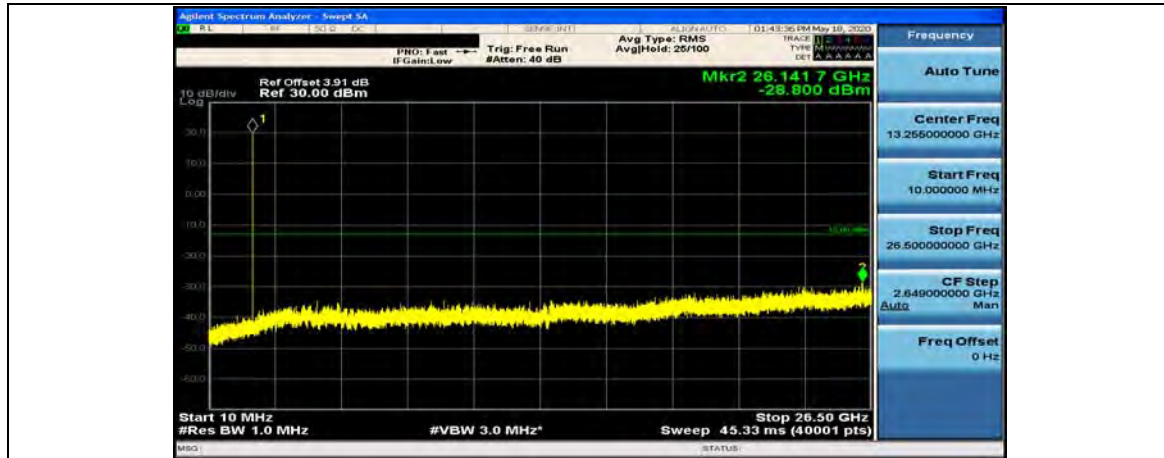
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

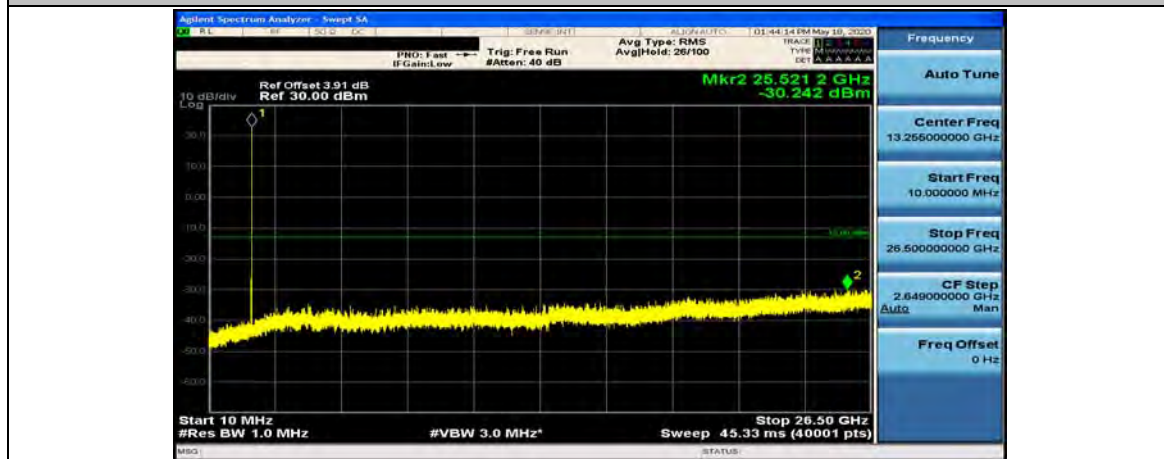


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

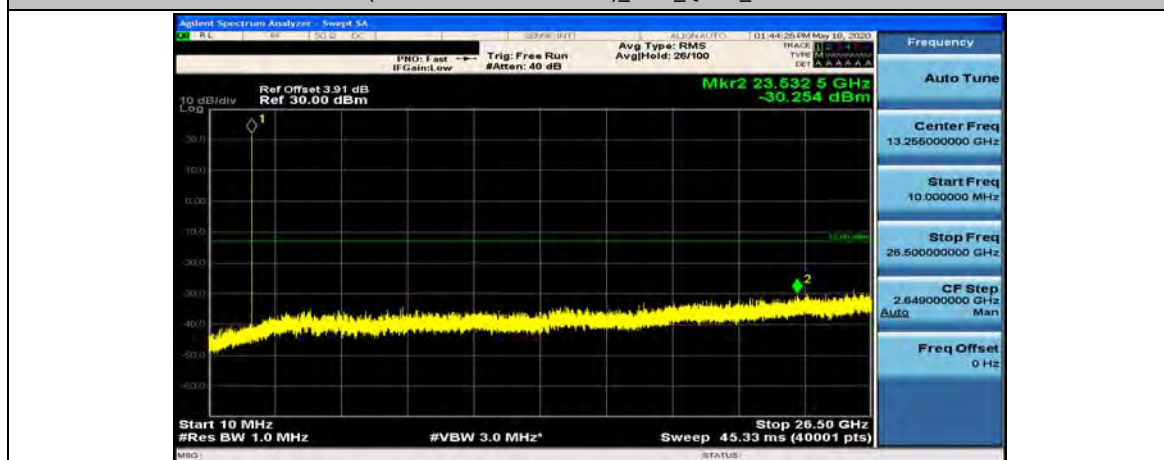


Channel Bandwidth: 5 MHz

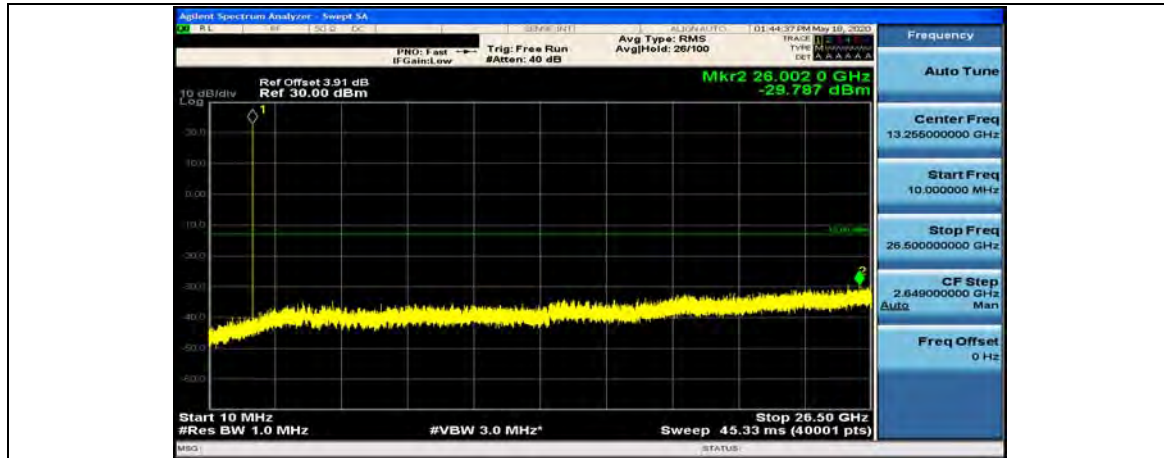
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz

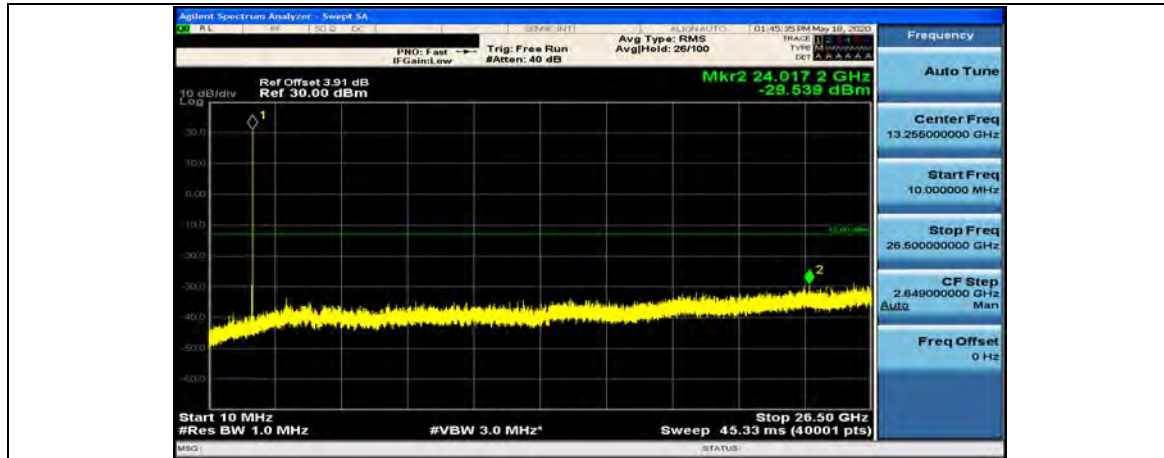
(Channel Bandwidth: 10 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0

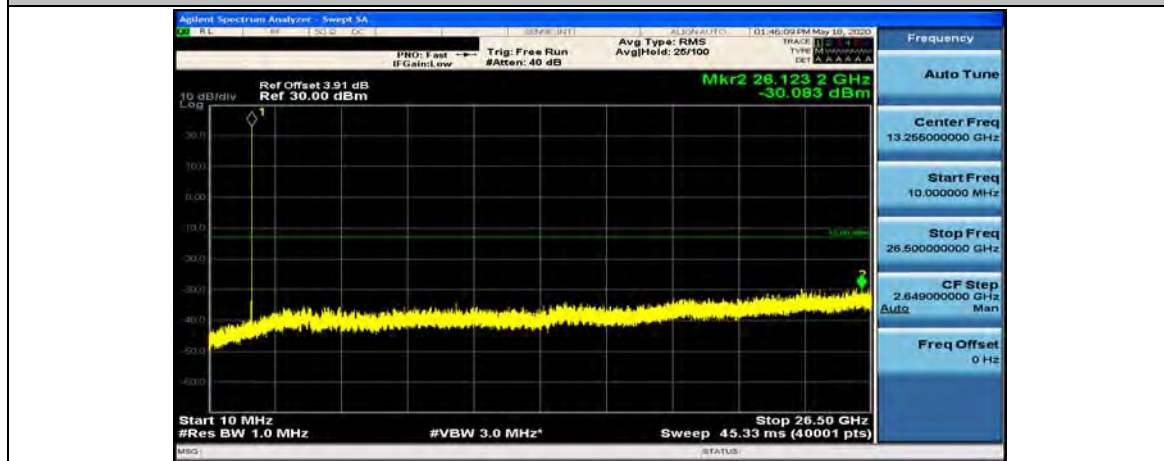


(Channel Bandwidth: 10 MHz)_HCH_QPSK_1RB#0

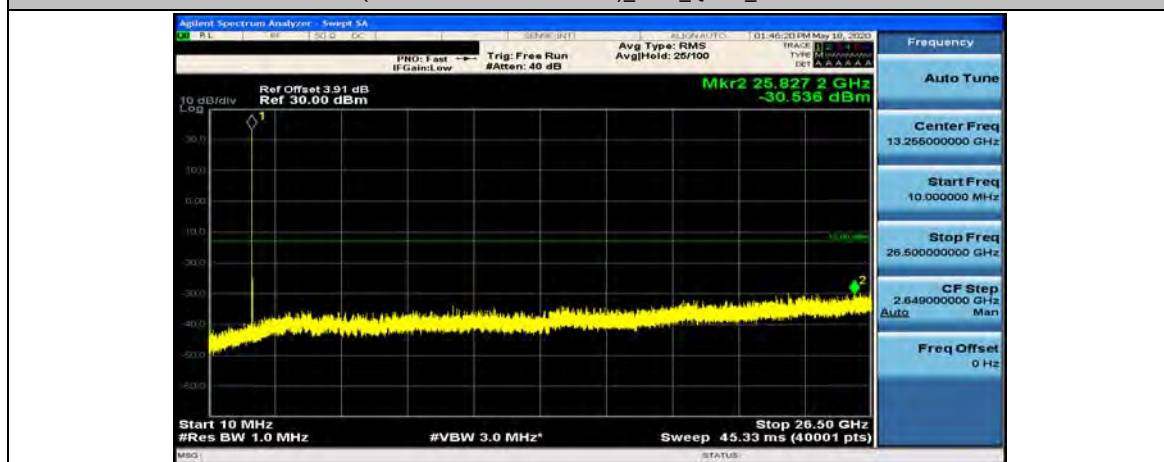


Channel Bandwidth: 15 MHz

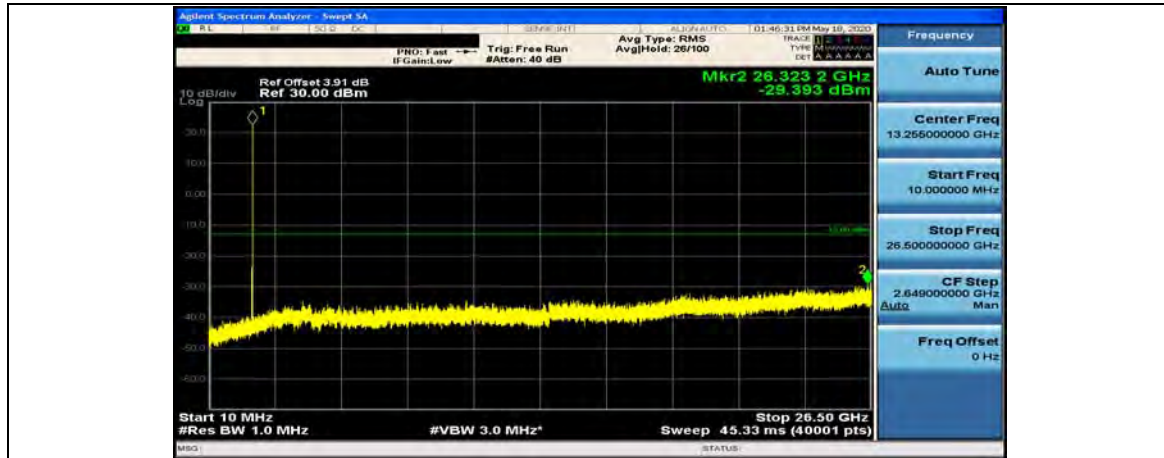
(Channel Bandwidth: 15 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 15 MHz)_MCH_QPSK_1RB#0

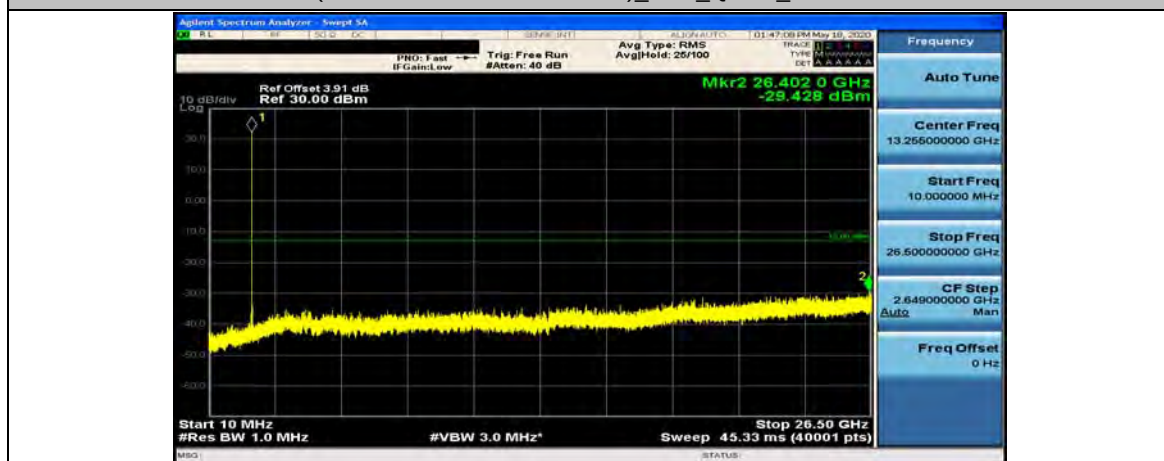


(Channel Bandwidth: 15 MHz)_HCH_QPSK_1RB#0



Channel Bandwidth: 20 MHz

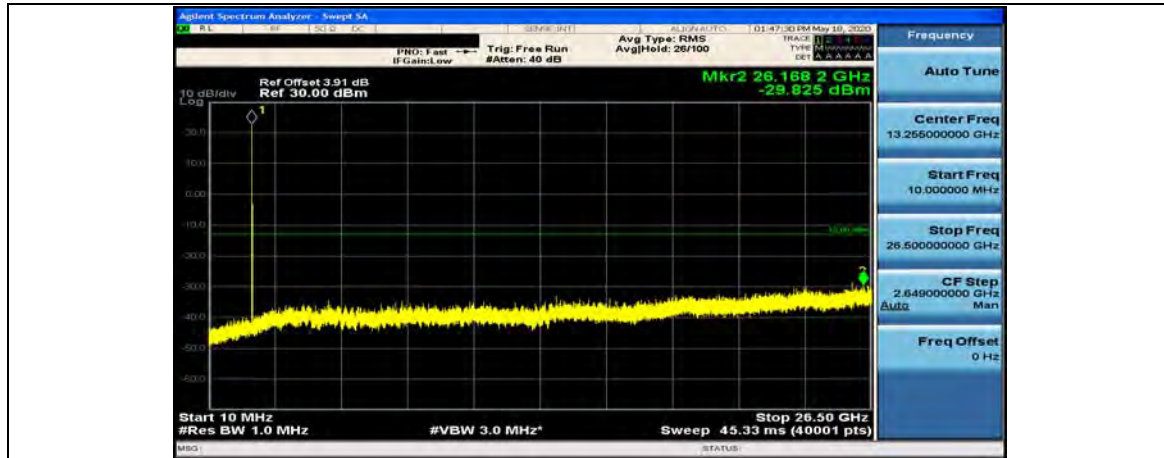
(Channel Bandwidth: 20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_HCH_QPSK_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	14.20	0.008301	± 2.5	PASS
		VN	TN	-0.70	-0.000409	± 2.5	PASS
		VH	TN	9.80	0.005729	± 2.5	PASS
	MCH	VL	TN	8.50	0.004906	± 2.5	PASS
		VN	TN	18.90	0.010909	± 2.5	PASS
		VH	TN	-3.10	-0.001789	± 2.5	PASS
	HCH	VL	TN	-0.70	-0.000399	± 2.5	PASS
		VN	TN	5.90	0.003363	± 2.5	PASS
		VH	TN	5.90	0.003363	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.20	0.002455	± 2.5	PASS
		VN	-20	1.70	0.000994	± 2.5	PASS
		VN	-10	0.40	0.000234	± 2.5	PASS
		VN	0	1.60	0.000935	± 2.5	PASS
		VN	10	-10.70	-0.006255	± 2.5	PASS
		VN	20	0.40	0.000234	± 2.5	PASS
		VN	30	-6.30	-0.003683	± 2.5	PASS
		VN	40	-6.60	-0.003858	± 2.5	PASS
		VN	50	-1.70	-0.000994	± 2.5	PASS
	MCH	VN	-30	8.20	0.004733	± 2.5	PASS
		VN	-20	3.20	0.001847	± 2.5	PASS
		VN	-10	1.70	0.000981	± 2.5	PASS
		VN	0	2.00	0.001154	± 2.5	PASS

		VN	10	1.30	0.000750	± 2.5	PASS
		VN	20	5.50	0.003175	± 2.5	PASS
		VN	30	-9.50	-0.005483	± 2.5	PASS
		VN	40	-3.90	-0.002251	± 2.5	PASS
		VN	50	2.20	0.001270	± 2.5	PASS
	HCH	VN	-30	-10.00	-0.005700	± 2.5	PASS
		VN	-20	-9.00	-0.005130	± 2.5	PASS
		VN	-10	-4.80	-0.002736	± 2.5	PASS
		VN	0	-1.40	-0.000798	± 2.5	PASS
		VN	10	1.00	0.000570	± 2.5	PASS
		VN	20	-12.80	-0.007296	± 2.5	PASS
		VN	30	-6.70	-0.003819	± 2.5	PASS
		VN	40	-0.20	-0.000114	± 2.5	PASS
		VN	50	-9.50	-0.005415	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.80	-0.000467	± 2.5	PASS
		VN	TN	5.10	0.002980	± 2.5	PASS
		VH	TN	-1.80	-0.001052	± 2.5	PASS
	MCH	VL	TN	0.40	0.000231	± 2.5	PASS
		VN	TN	9.00	0.005195	± 2.5	PASS
		VH	TN	-3.10	-0.001789	± 2.5	PASS
	HCH	VL	TN	2.30	0.001312	± 2.5	PASS
		VN	TN	3.00	0.001711	± 2.5	PASS
		VH	TN	2.50	0.001426	± 2.5	PASS

Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.80	0.001636	± 2.5	PASS
		VN	-20	9.70	0.005668	± 2.5	PASS
		VN	-10	-1.00	-0.000584	± 2.5	PASS
		VN	0	10.90	0.006369	± 2.5	PASS
		VN	10	6.70	0.003915	± 2.5	PASS
		VN	20	9.50	0.005551	± 2.5	PASS
		VN	30	12.70	0.007420	± 2.5	PASS
		VN	40	3.20	0.001870	± 2.5	PASS
		VN	50	12.70	0.007420	± 2.5	PASS
	MCH	VN	-30	-0.20	-0.000115	± 2.5	PASS
		VN	-20	2.00	0.001154	± 2.5	PASS
		VN	-10	6.40	0.003694	± 2.5	PASS
		VN	0	13.80	0.007965	± 2.5	PASS
		VN	10	2.60	0.001501	± 2.5	PASS
		VN	20	13.60	0.007850	± 2.5	PASS
		VN	30	6.70	0.003867	± 2.5	PASS

		VN	40	-1.40	-0.000808	± 2.5	PASS
		VN	50	6.70	0.003867	± 2.5	PASS
	HCH	VN	-30	11.30	0.006444	± 2.5	PASS
		VN	-20	1.70	0.000969	± 2.5	PASS
		VN	-10	11.60	0.006615	± 2.5	PASS
		VN	0	4.50	0.002566	± 2.5	PASS
		VN	10	-3.10	-0.001768	± 2.5	PASS
		VN	20	7.70	0.004391	± 2.5	PASS
		VN	30	2.30	0.001312	± 2.5	PASS
		VN	40	-1.50	-0.000855	± 2.5	PASS
		VN	50	2.30	0.001312	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.60	0.001518	± 2.5	PASS
		VN	TN	-12.80	-0.007474	± 2.5	PASS
		VH	TN	-0.40	-0.000234	± 2.5	PASS
	MCH	VL	TN	-3.30	-0.001905	± 2.5	PASS
		VN	TN	10.60	0.006118	± 2.5	PASS
		VH	TN	12.20	0.007042	± 2.5	PASS
	HCH	VL	TN	4.20	0.002397	± 2.5	PASS
		VN	TN	7.30	0.004165	± 2.5	PASS
		VH	TN	-0.90	-0.000514	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-11.10	-0.006482	± 2.5	PASS
		VN	-20	-1.90	-0.001109	± 2.5	PASS
		VN	-10	-14.70	-0.008584	± 2.5	PASS
		VN	0	-5.20	-0.003036	± 2.5	PASS
		VN	10	-14.30	-0.008350	± 2.5	PASS
		VN	20	-5.60	-0.003270	± 2.5	PASS
		VN	30	-14.30	-0.008350	± 2.5	PASS
		VN	40	-5.70	-0.003328	± 2.5	PASS
		VN	50	0.90	0.000526	± 2.5	PASS
	MCH	VN	-30	-0.50	-0.000289	± 2.5	PASS
		VN	-20	8.10	0.004675	± 2.5	PASS
		VN	-10	-1.80	-0.001039	± 2.5	PASS
		VN	0	7.30	0.004214	± 2.5	PASS
		VN	10	-1.40	-0.000808	± 2.5	PASS
		VN	20	6.40	0.003694	± 2.5	PASS
		VN	30	5.10	0.002944	± 2.5	PASS
		VN	40	-1.60	-0.000924	± 2.5	PASS
	VN	50	8.10	0.004675	± 2.5	PASS	
	HCH	VN	-30	2.70	0.001541	± 2.5	PASS

		VN	-20	6.50	0.003709	± 2.5	PASS
		VN	-10	-7.90	-0.004508	± 2.5	PASS
		VN	0	-5.30	-0.003024	± 2.5	PASS
		VN	10	-0.90	-0.000514	± 2.5	PASS
		VN	20	3.10	0.001769	± 2.5	PASS
		VN	30	7.30	0.004165	± 2.5	PASS
		VN	40	-4.00	-0.002282	± 2.5	PASS
		VN	50	1.50	0.000856	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.10	-0.000641	± 2.5	PASS
		VN	TN	1.10	0.000641	± 2.5	PASS
		VH	TN	-6.80	-0.003965	± 2.5	PASS
	MCH	VL	TN	6.90	0.003983	± 2.5	PASS
		VN	TN	-3.50	-0.002020	± 2.5	PASS
		VH	TN	5.70	0.003290	± 2.5	PASS
	HCH	VL	TN	-15.30	-0.008743	± 2.5	PASS
		VN	TN	0.30	0.000171	± 2.5	PASS
		VH	TN	1.60	0.000914	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.30	-0.000758	± 2.5	PASS
		VN	-20	-0.30	-0.000175	± 2.5	PASS
		VN	-10	0.60	0.000350	± 2.5	PASS
		VN	0	5.80	0.003382	± 2.5	PASS
		VN	10	-7.80	-0.004548	± 2.5	PASS
		VN	20	-0.20	-0.000117	± 2.5	PASS
		VN	30	7.50	0.004373	± 2.5	PASS
		VN	40	-1.80	-0.001050	± 2.5	PASS
		VN	50	-7.70	-0.004490	± 2.5	PASS
	MCH	VN	-30	-3.70	-0.002136	± 2.5	PASS
		VN	-20	6.80	0.003925	± 2.5	PASS
		VN	-10	-2.40	-0.001385	± 2.5	PASS
		VN	0	-5.30	-0.003059	± 2.5	PASS
		VN	10	11.90	0.006869	± 2.5	PASS
		VN	20	8.10	0.004675	± 2.5	PASS
		VN	30	2.30	0.001328	± 2.5	PASS
		VN	40	-4.40	-0.002540	± 2.5	PASS
		VN	50	8.80	0.005079	± 2.5	PASS
	HCH	VN	-30	-11.10	-0.006343	± 2.5	PASS
		VN	-20	-4.80	-0.002743	± 2.5	PASS
		VN	-10	1.30	0.000743	± 2.5	PASS
		VN	0	-11.10	-0.006343	± 2.5	PASS

		VN	10	-3.30	-0.001886	± 2.5	PASS
		VN	20	4.50	0.002571	± 2.5	PASS
		VN	30	-5.10	-0.002914	± 2.5	PASS
		VN	40	3.20	0.001829	± 2.5	PASS
		VN	50	-7.30	-0.004171	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	5.90	0.003435	± 2.5	PASS
		VN	TN	-2.80	-0.001630	± 2.5	PASS
		VH	TN	4.30	0.002504	± 2.5	PASS
	MCH	VL	TN	0.90	0.000519	± 2.5	PASS
		VN	TN	6.50	0.003752	± 2.5	PASS
		VH	TN	0.70	0.000404	± 2.5	PASS
	HCH	VL	TN	7.80	0.004464	± 2.5	PASS
		VN	TN	3.80	0.002175	± 2.5	PASS
		VH	TN	9.50	0.005436	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.90	-0.000524	± 2.5	PASS
		VN	-20	11.90	0.006929	± 2.5	PASS
		VN	-10	9.20	0.005357	± 2.5	PASS
		VN	0	7.40	0.004309	± 2.5	PASS
		VN	10	9.20	0.005357	± 2.5	PASS
		VN	20	12.50	0.007278	± 2.5	PASS
		VN	30	-3.40	-0.001980	± 2.5	PASS
		VN	40	3.10	0.001805	± 2.5	PASS
		VN	50	13.10	0.007627	± 2.5	PASS
	MCH	VN	-30	4.00	0.002309	± 2.5	PASS
		VN	-20	11.30	0.006522	± 2.5	PASS
		VN	-10	2.50	0.001443	± 2.5	PASS
		VN	0	-3.90	-0.002251	± 2.5	PASS
		VN	10	5.60	0.003232	± 2.5	PASS
		VN	20	-1.80	-0.001039	± 2.5	PASS
		VN	30	7.50	0.004329	± 2.5	PASS
		VN	40	0.70	0.000404	± 2.5	PASS
		VN	50	3.90	0.002251	± 2.5	PASS
	HCH	VN	-30	-2.00	-0.001144	± 2.5	PASS
		VN	-20	-0.70	-0.000401	± 2.5	PASS
		VN	-10	8.30	0.004750	± 2.5	PASS
		VN	0	-2.10	-0.001202	± 2.5	PASS
		VN	10	7.80	0.004464	± 2.5	PASS
		VN	20	14.50	0.008298	± 2.5	PASS
		VN	30	5.20	0.002976	± 2.5	PASS



		VN	40	-3.80	-0.002175	± 2.5	PASS
		VN	50	4.80	0.002747	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-6.60	-0.003837	± 2.5	PASS
		VN	TN	-13.60	-0.007907	± 2.5	PASS
		VH	TN	-10.50	-0.006105	± 2.5	PASS
	MCH	VL	TN	-2.20	-0.001270	± 2.5	PASS
		VN	TN	6.90	0.003983	± 2.5	PASS
		VH	TN	10.30	0.005945	± 2.5	PASS
	HCH	VL	TN	-1.50	-0.000860	± 2.5	PASS
		VN	TN	19.10	0.010946	± 2.5	PASS
		VH	TN	4.90	0.002808	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-12.50	-0.007267	± 2.5	PASS
		VN	-20	0.80	0.000465	± 2.5	PASS
		VN	-10	-12.50	-0.007267	± 2.5	PASS
		VN	0	-3.90	-0.002267	± 2.5	PASS
		VN	10	-12.90	-0.007500	± 2.5	PASS
		VN	20	1.70	0.000988	± 2.5	PASS
		VN	30	-13.60	-0.007907	± 2.5	PASS
		VN	40	-6.90	-0.004012	± 2.5	PASS
		VN	50	-0.70	-0.000407	± 2.5	PASS
	MCH	VN	-30	1.90	0.001097	± 2.5	PASS
		VN	-20	9.90	0.005714	± 2.5	PASS
		VN	-10	-0.10	-0.000058	± 2.5	PASS
		VN	0	8.70	0.005022	± 2.5	PASS
		VN	10	-0.60	-0.000346	± 2.5	PASS
		VN	20	8.30	0.004791	± 2.5	PASS
		VN	30	1.40	0.000808	± 2.5	PASS
		VN	40	10.70	0.006176	± 2.5	PASS
		VN	50	2.50	0.001443	± 2.5	PASS
	HCH	VN	-30	-5.60	-0.003209	± 2.5	PASS
		VN	-20	-5.80	-0.003324	± 2.5	PASS
		VN	-10	-9.10	-0.005215	± 2.5	PASS
		VN	0	0.80	0.000458	± 2.5	PASS
		VN	10	-8.80	-0.005043	± 2.5	PASS
		VN	20	2.20	0.001261	± 2.5	PASS
		VN	30	-3.50	-0.002006	± 2.5	PASS
		VN	40	7.30	0.004183	± 2.5	PASS
	VN	50	0.30	0.000172	± 2.5	PASS	