

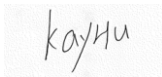
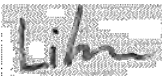


Appendix D: Test Data for E-UTRA Band 4

Product Name: Tigapo Cards vending machine

Test Model: LKS8500 series

Environmental Conditions

Temperature:	22.2℃
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	
	Kay Hu
Supervised by:	
	Li Huan



D.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	18.48	PASS
Band4	1.4MHz	QPSK	20175	18.63	PASS
Band4	1.4MHz	QPSK	20393	18.83	PASS
Band4	1.4MHz	16QAM	19957	17.40	PASS
Band4	1.4MHz	16QAM	20175	17.42	PASS
Band4	1.4MHz	16QAM	20393	17.76	PASS
Band4	3MHz	QPSK	19965	18.09	PASS
Band4	3MHz	QPSK	20175	18.35	PASS
Band4	3MHz	QPSK	20385	18.78	PASS
Band4	3MHz	16QAM	19965	17.12	PASS
Band4	3MHz	16QAM	20175	17.36	PASS
Band4	3MHz	16QAM	20385	17.70	PASS
Band4	5MHz	QPSK	19975	18.39	PASS
Band4	5MHz	QPSK	20175	18.67	PASS
Band4	5MHz	QPSK	20375	18.83	PASS
Band4	5MHz	16QAM	19975	17.32	PASS
Band4	5MHz	16QAM	20175	17.63	PASS
Band4	5MHz	16QAM	20375	17.76	PASS
Band4	10MHz	QPSK	20000	18.31	PASS
Band4	10MHz	QPSK	20175	18.72	PASS
Band4	10MHz	QPSK	20350	18.87	PASS
Band4	10MHz	16QAM	20000	17.34	PASS
Band4	10MHz	16QAM	20175	17.70	PASS
Band4	10MHz	16QAM	20350	17.85	PASS
Band4	15MHz	QPSK	20025	18.10	PASS
Band4	15MHz	QPSK	20175	18.57	PASS
Band4	15MHz	QPSK	20325	18.78	PASS
Band4	15MHz	16QAM	20025	17.03	PASS
Band4	15MHz	16QAM	20175	17.53	PASS
Band4	15MHz	16QAM	20325	17.75	PASS



Band4	20MHz	QPSK	20050	19.26	PASS
Band4	20MHz	QPSK	20175	19.38	PASS
Band4	20MHz	QPSK	20300	19.42	PASS
Band4	20MHz	16QAM	20050	17.07	PASS
Band4	20MHz	16QAM	20175	17.52	PASS
Band4	20MHz	16QAM	20300	17.61	PASS

D.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	5.01	13	PASS
Band4	1.4MHz	QPSK	20175	5.10	13	PASS
Band4	1.4MHz	QPSK	20393	5.40	13	PASS
Band4	1.4MHz	16QAM	19957	5.89	13	PASS
Band4	1.4MHz	16QAM	20175	5.95	13	PASS
Band4	1.4MHz	16QAM	20393	6.34	13	PASS
Band4	3MHz	QPSK	19965	5.15	13	PASS
Band4	3MHz	QPSK	20175	5.13	13	PASS
Band4	3MHz	QPSK	20385	5.43	13	PASS
Band4	3MHz	16QAM	19965	6.13	13	PASS
Band4	3MHz	16QAM	20175	6.12	13	PASS
Band4	3MHz	16QAM	20385	6.32	13	PASS
Band4	5MHz	QPSK	19975	5.28	13	PASS
Band4	5MHz	QPSK	20175	5.21	13	PASS
Band4	5MHz	QPSK	20375	5.43	13	PASS
Band4	5MHz	16QAM	19975	6.15	13	PASS
Band4	5MHz	16QAM	20175	6.06	13	PASS
Band4	5MHz	16QAM	20375	6.26	13	PASS
Band4	10MHz	QPSK	20000	5.47	13	PASS
Band4	10MHz	QPSK	20175	5.24	13	PASS
Band4	10MHz	QPSK	20350	5.37	13	PASS
Band4	10MHz	16QAM	20000	6.35	13	PASS
Band4	10MHz	16QAM	20175	6.11	13	PASS
Band4	10MHz	16QAM	20350	6.26	13	PASS
Band4	15MHz	QPSK	20025	5.79	13	PASS
Band4	15MHz	QPSK	20175	5.66	13	PASS
Band4	15MHz	QPSK	20325	5.57	13	PASS
Band4	15MHz	16QAM	20025	6.50	13	PASS
Band4	15MHz	16QAM	20175	6.33	13	PASS

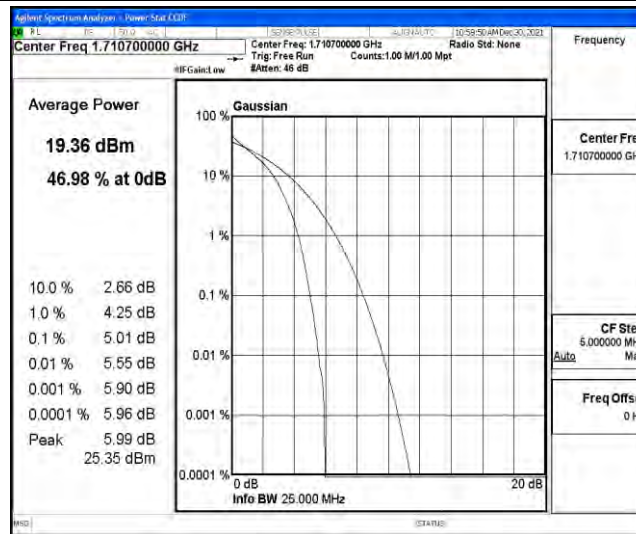


Band4	15MHz	16QAM	20325	6.28	13	PASS
Band4	20MHz	QPSK	20050	5.62	13	PASS
Band4	20MHz	QPSK	20175	5.54	13	PASS
Band4	20MHz	QPSK	20300	5.50	13	PASS
Band4	20MHz	16QAM	20050	6.51	13	PASS
Band4	20MHz	16QAM	20175	6.36	13	PASS
Band4	20MHz	16QAM	20300	6.23	13	PASS

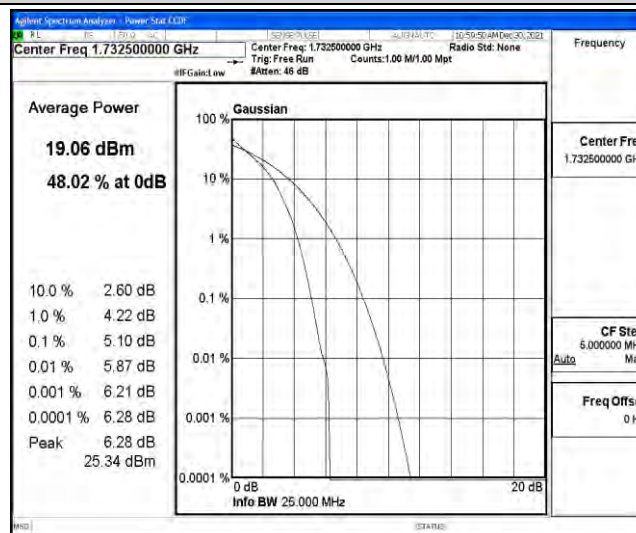


Test Graphs

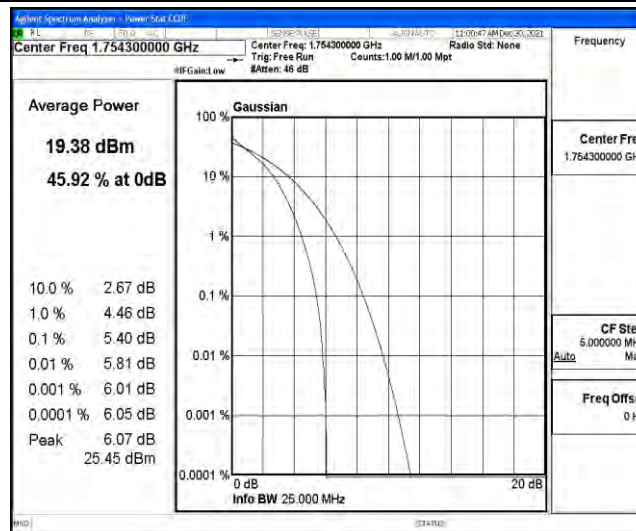
Band4-1.4MHz-QPSK-19957



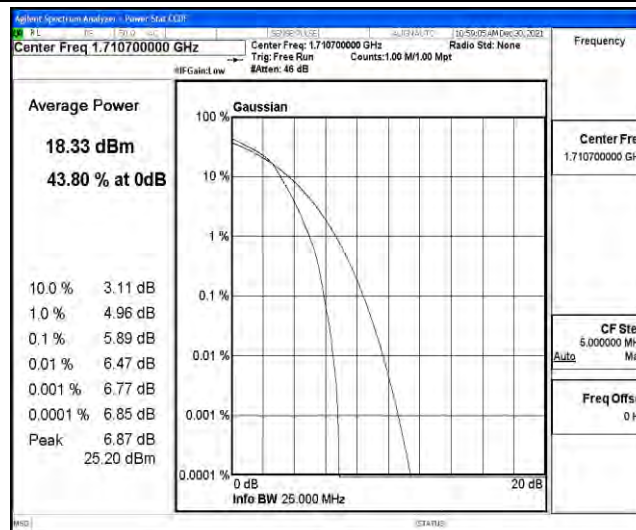
Band4-1.4MHz-QPSK-20175



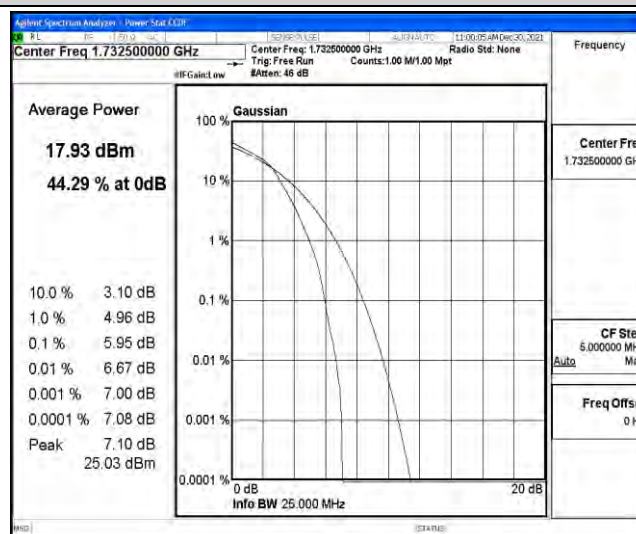
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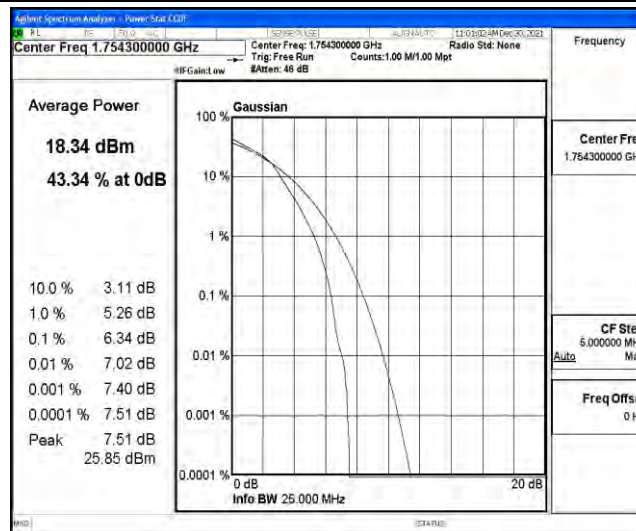
Band4-1.4MHz-16QAM-19957



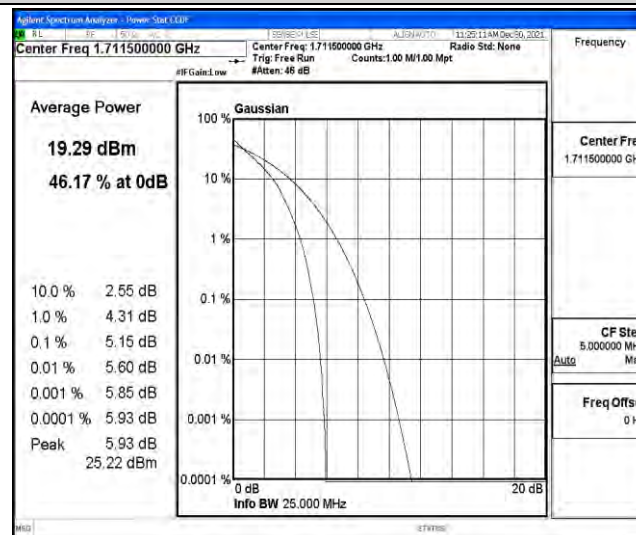
Band4-1.4MHz-16QAM-20175



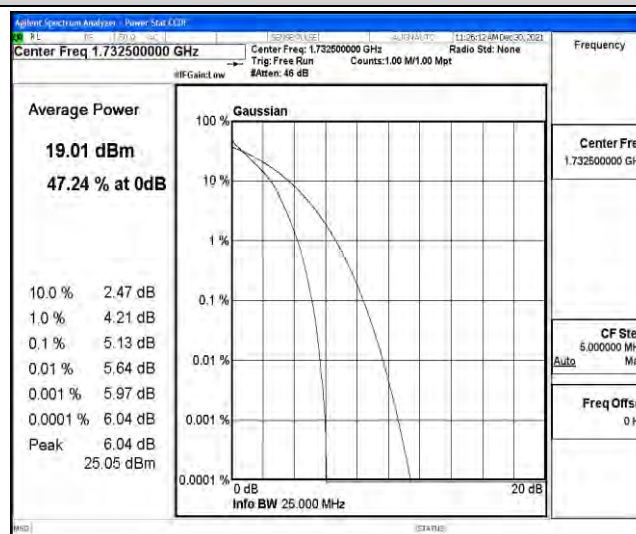
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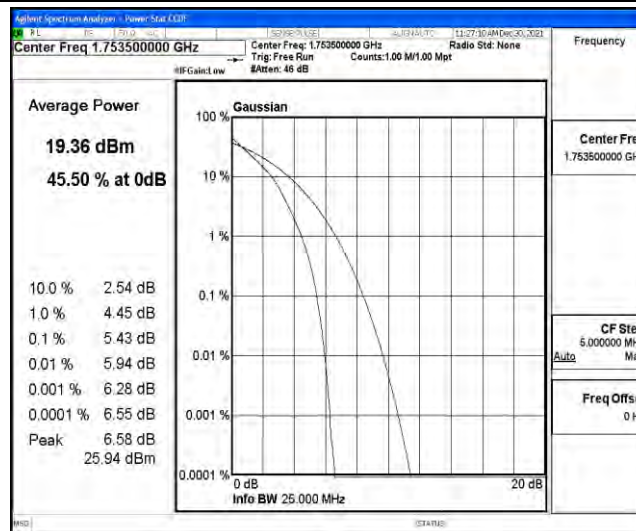
Band4-3MHz-QPSK-19965



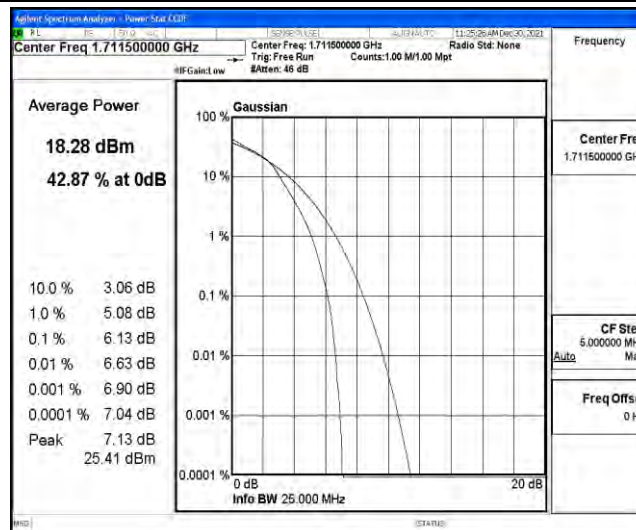
Band4-3MHz-QPSK-20175



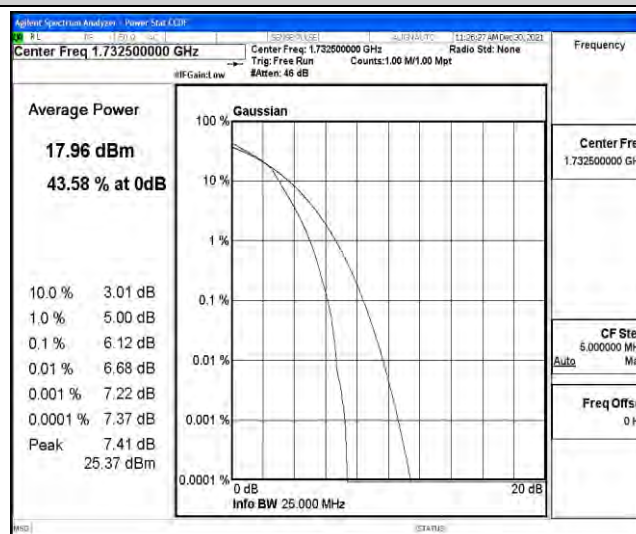
Band4-3MHz-QPSK-20385



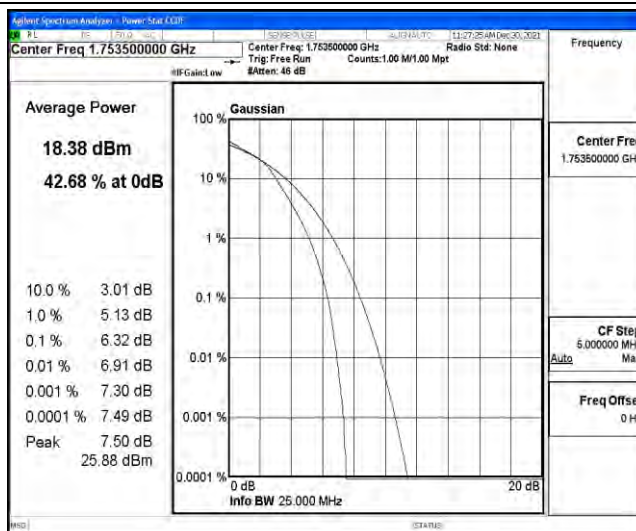
Band4-3MHz-16QAM-19965



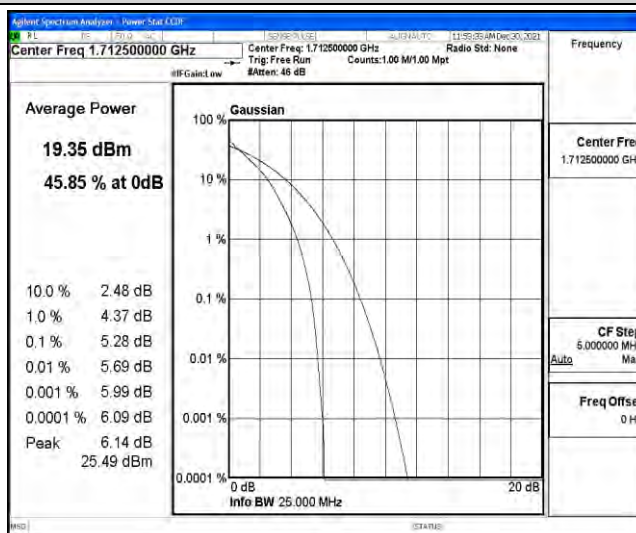
Band4-3MHz-16QAM-20175



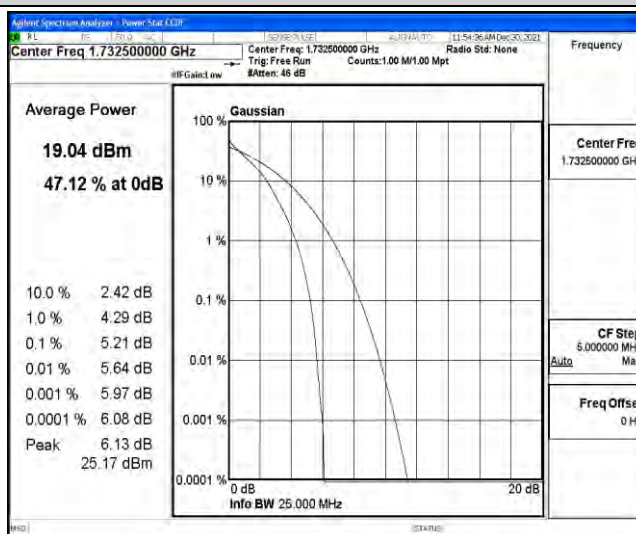
Band4-3MHz-16QAM-20385



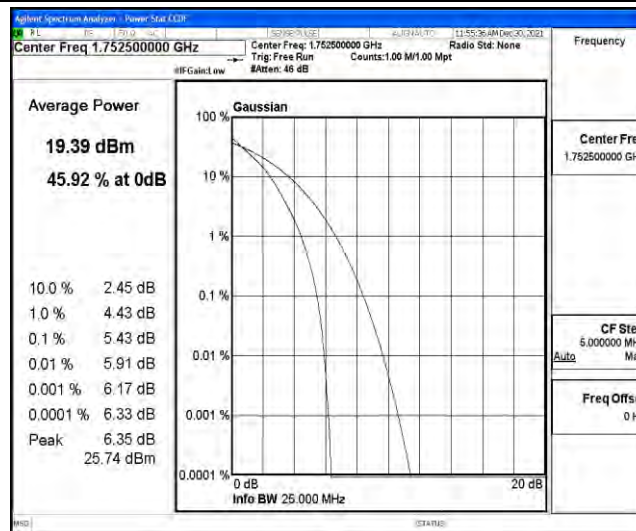
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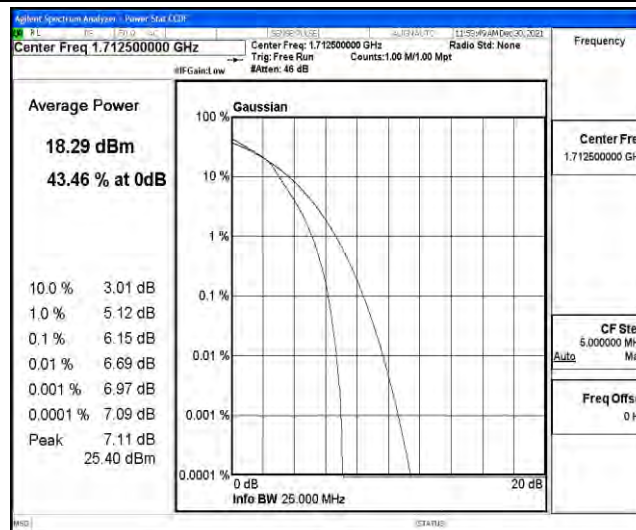
Band4-5MHz-QPSK-20175



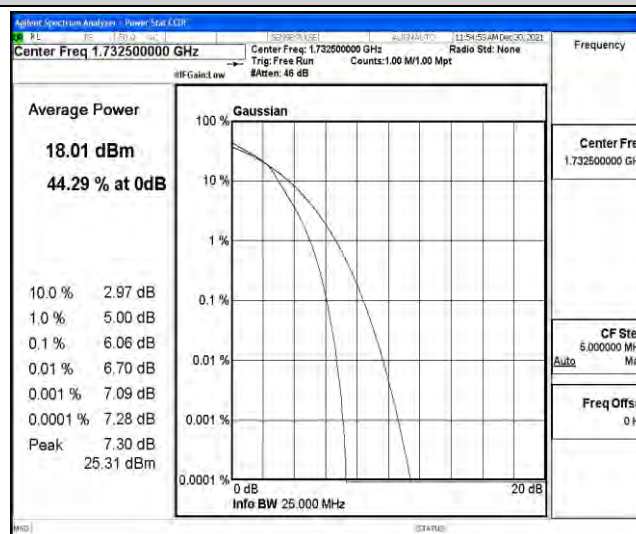
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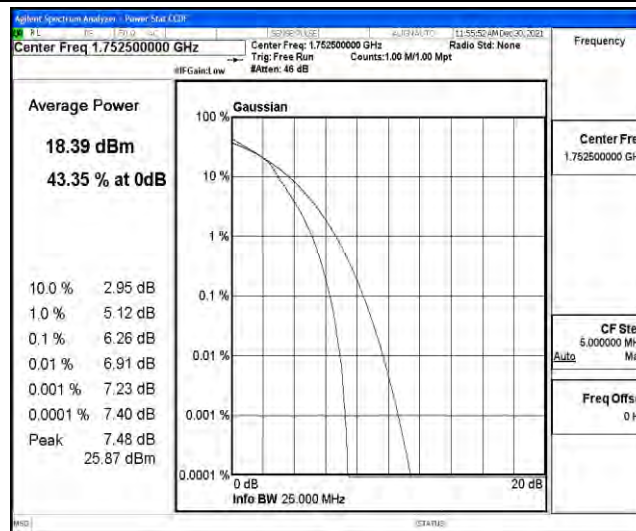
Band4-5MHz-16QAM-19975



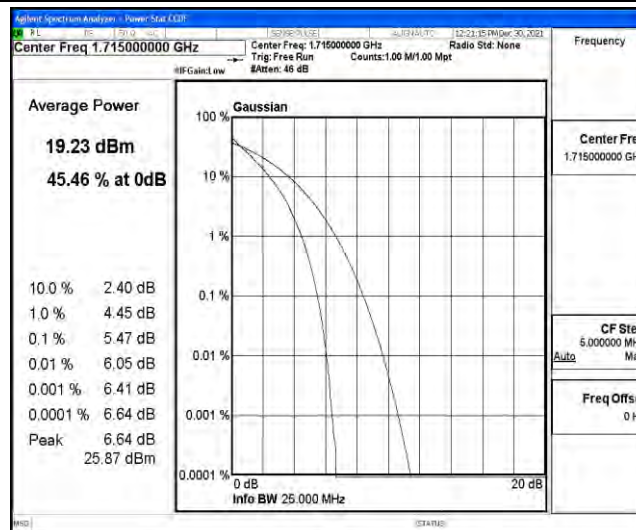
Band4-5MHz-16QAM-20175



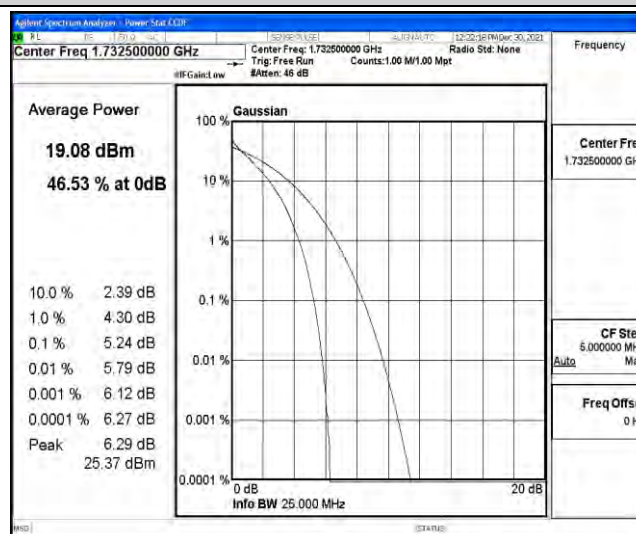
Band4-5MHz-16QAM-20375



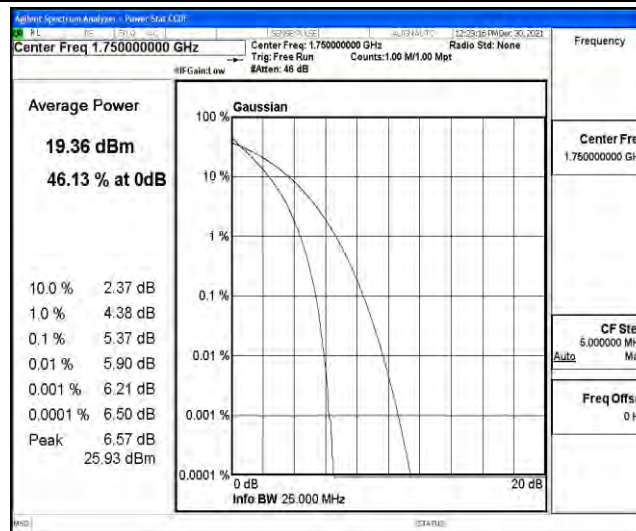
Band4-10MHz-QPSK-20000



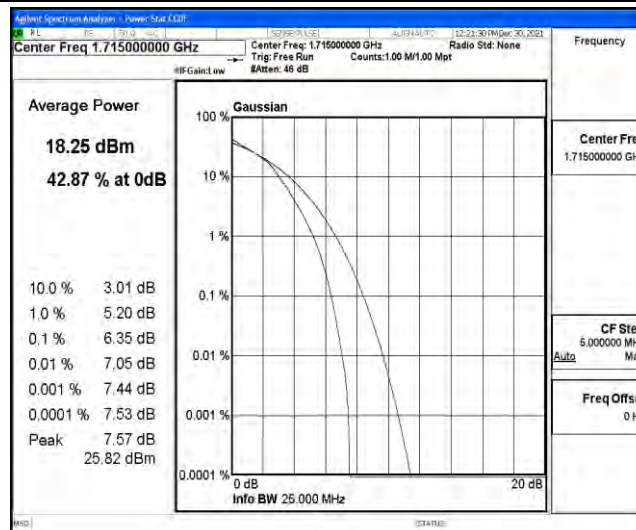
Band4-10MHz-QPSK-20175



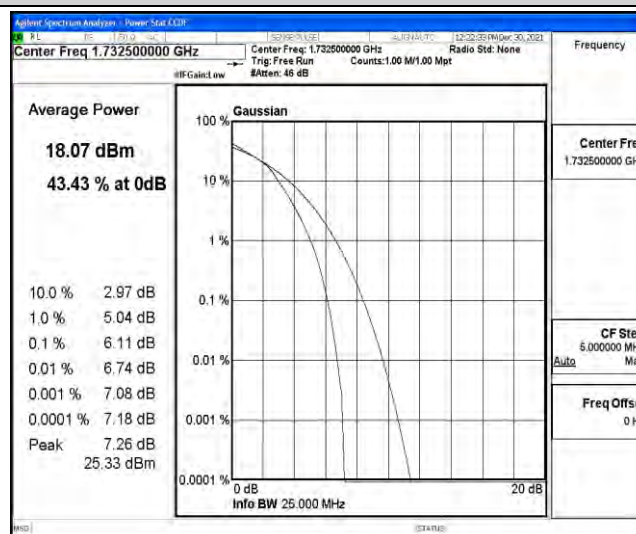
Band4-10MHz-QPSK-20350



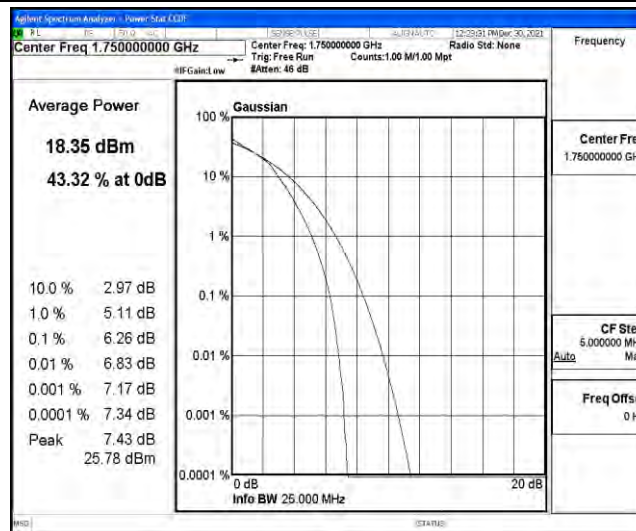
Band4-10MHz-16QAM-20000



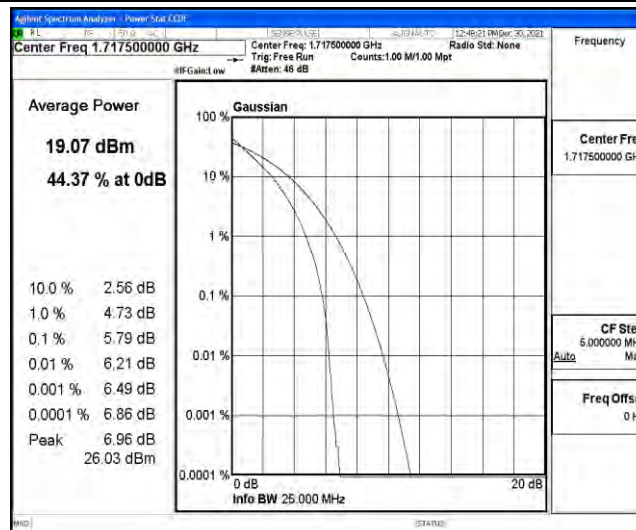
Band4-10MHz-16QAM-20175



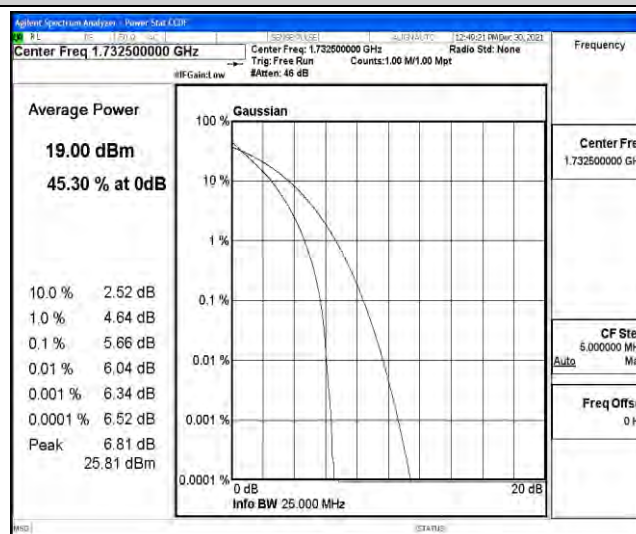
Band4-10MHz-16QAM-20350



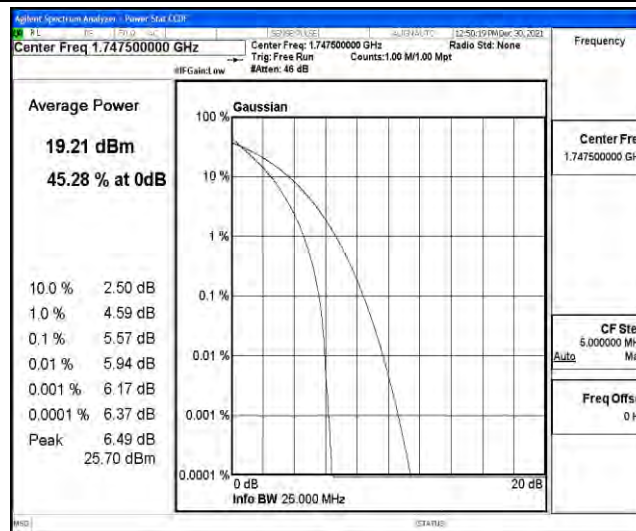
Band4-15MHz-QPSK-20025



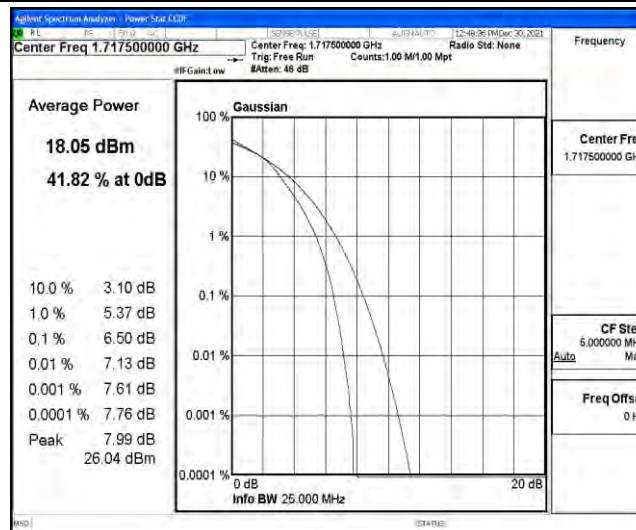
Band4-15MHz-QPSK-20175



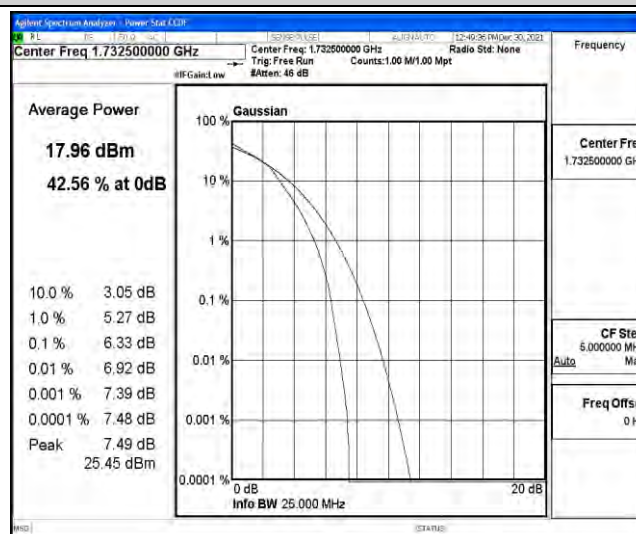
Band4-15MHz-QPSK-20325



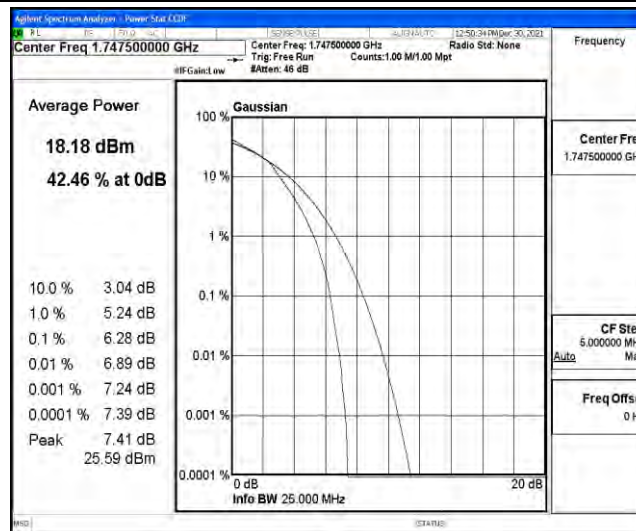
Band4-15MHz-16QAM-20025



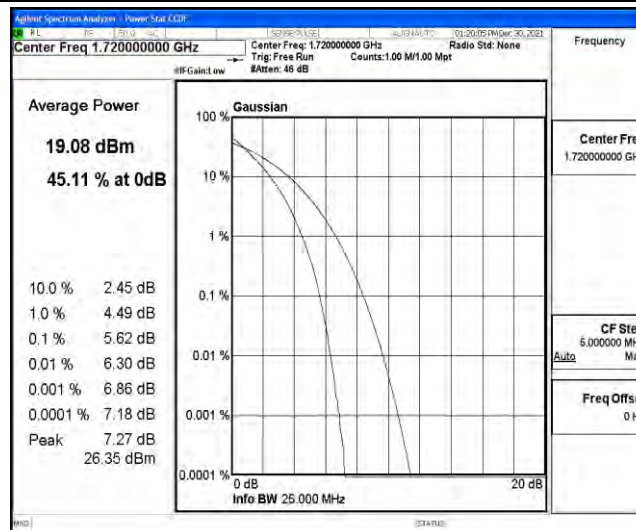
Band4-15MHz-16QAM-20175



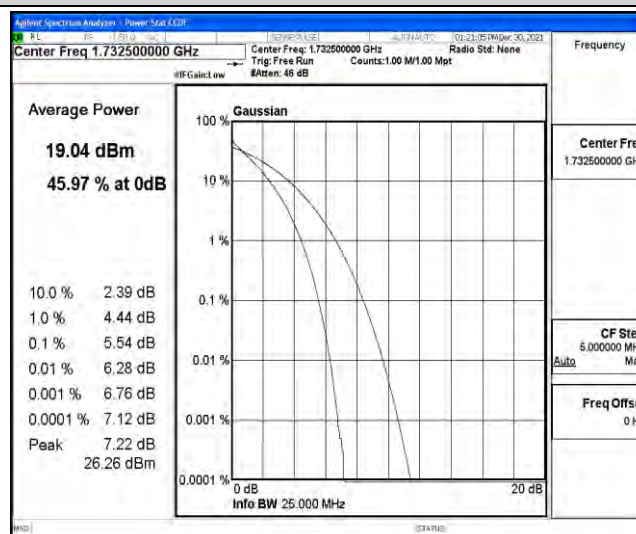
Band4-15MHz-16QAM-20325



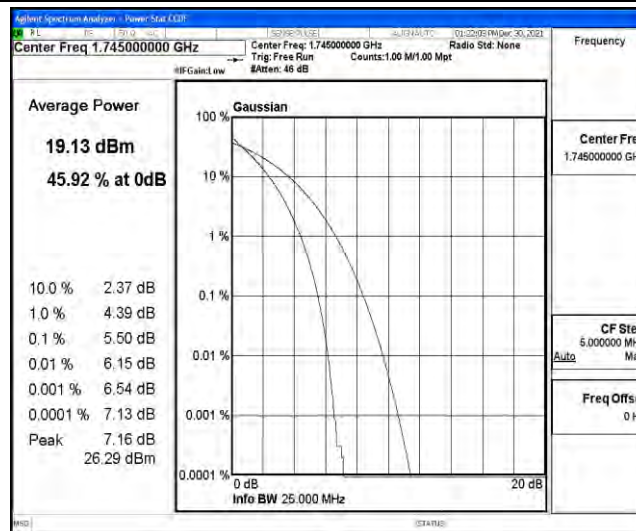
Band4-20MHz-QPSK-20050



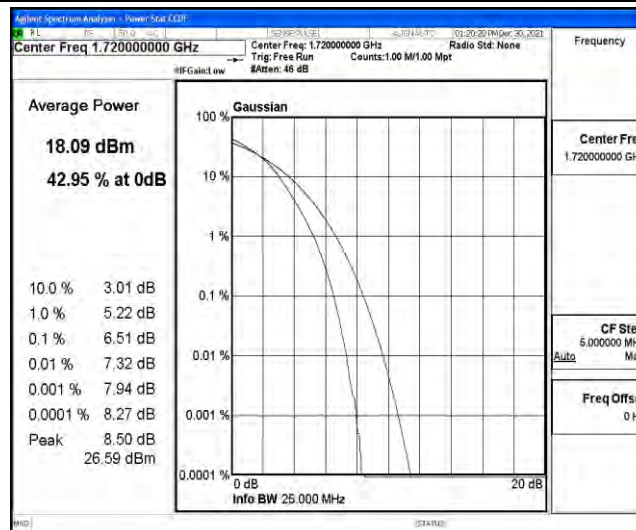
Band4-20MHz-QPSK-20175



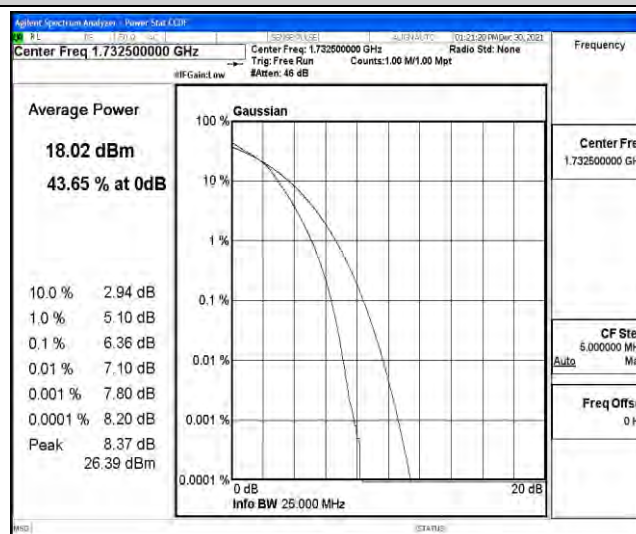
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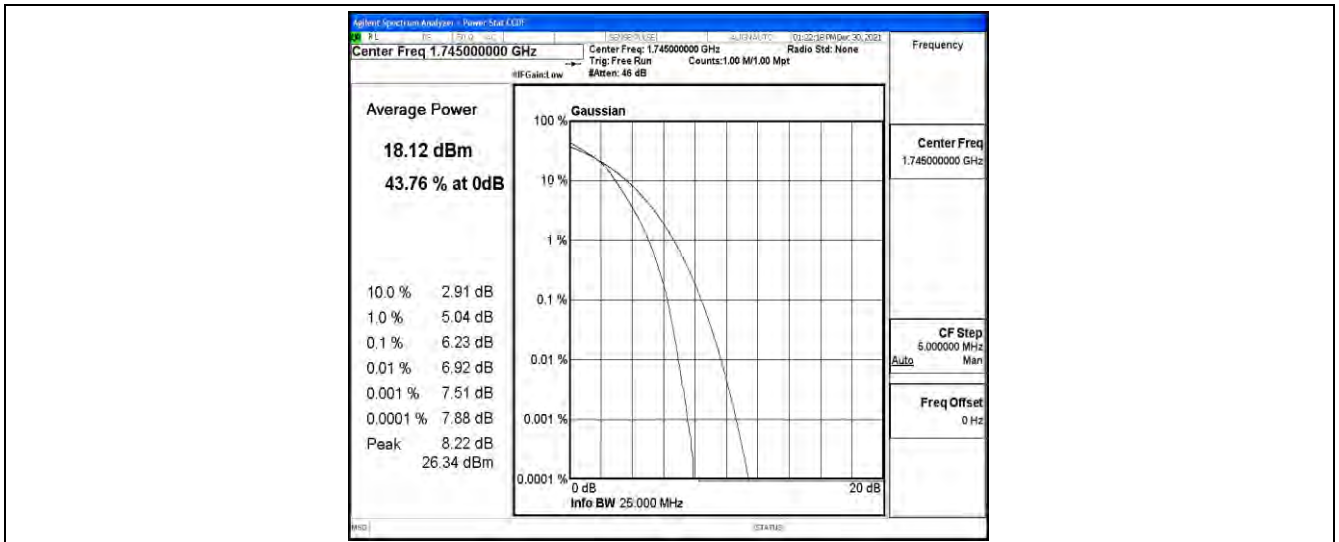
Band4-20MHz-16QAM-20050



Band4-20MHz-16QAM-20175



Band4-20MHz-16QAM-20300





D.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	1.0900	1.271	PASS
Band4	1.4MHz	QPSK	20175	1.0894	1.277	PASS
Band4	1.4MHz	QPSK	20393	1.0900	1.280	PASS
Band4	1.4MHz	16QAM	19957	1.0948	1.292	PASS
Band4	1.4MHz	16QAM	20175	1.0942	1.297	PASS
Band4	1.4MHz	16QAM	20393	1.0898	1.270	PASS
Band4	3MHz	QPSK	19965	2.6891	2.920	PASS
Band4	3MHz	QPSK	20175	2.6789	2.891	PASS
Band4	3MHz	QPSK	20385	2.6842	2.882	PASS
Band4	3MHz	16QAM	19965	2.6774	2.897	PASS
Band4	3MHz	16QAM	20175	2.6780	2.867	PASS
Band4	3MHz	16QAM	20385	2.6851	2.900	PASS
Band4	5MHz	QPSK	19975	4.5136	5.166	PASS
Band4	5MHz	QPSK	20175	4.5235	5.196	PASS
Band4	5MHz	QPSK	20375	4.5172	5.306	PASS
Band4	5MHz	16QAM	19975	4.5198	5.153	PASS
Band4	5MHz	16QAM	20175	4.5225	5.119	PASS
Band4	5MHz	16QAM	20375	4.5268	5.234	PASS
Band4	10MHz	QPSK	20000	8.9674	10.05	PASS
Band4	10MHz	QPSK	20175	9.0256	10.17	PASS
Band4	10MHz	QPSK	20350	8.9983	10.13	PASS
Band4	10MHz	16QAM	20000	8.9857	10.00	PASS
Band4	10MHz	16QAM	20175	9.0151	10.08	PASS
Band4	10MHz	16QAM	20350	8.9928	10.06	PASS
Band4	15MHz	QPSK	20025	13.457	14.94	PASS
Band4	15MHz	QPSK	20175	13.568	15.20	PASS
Band4	15MHz	QPSK	20325	13.458	14.90	PASS
Band4	15MHz	16QAM	20025	13.488	14.83	PASS
Band4	15MHz	16QAM	20175	13.542	14.99	PASS
Band4	15MHz	16QAM	20325	13.502	15.03	PASS
Band4	20MHz	QPSK	20050	17.943	19.74	PASS
Band4	20MHz	QPSK	20175	18.056	19.90	PASS
Band4	20MHz	QPSK	20300	17.967	20.03	PASS

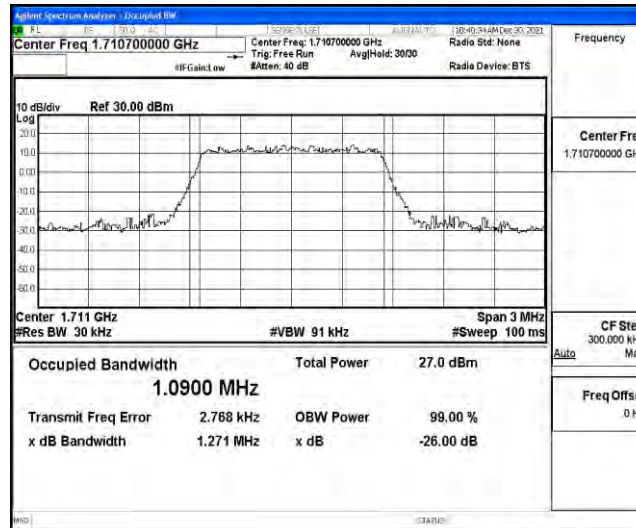


Band4	20MHz	16QAM	20050	18.010	19.62	PASS
Band4	20MHz	16QAM	20175	18.005	19.84	PASS
Band4	20MHz	16QAM	20300	17.960	19.66	PASS

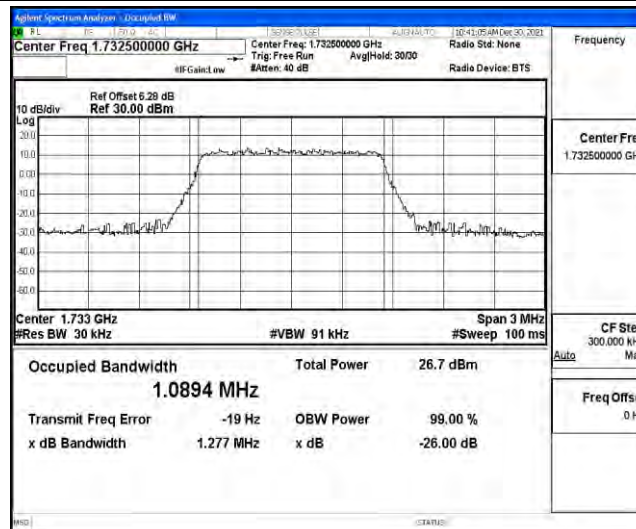


Test Graphs

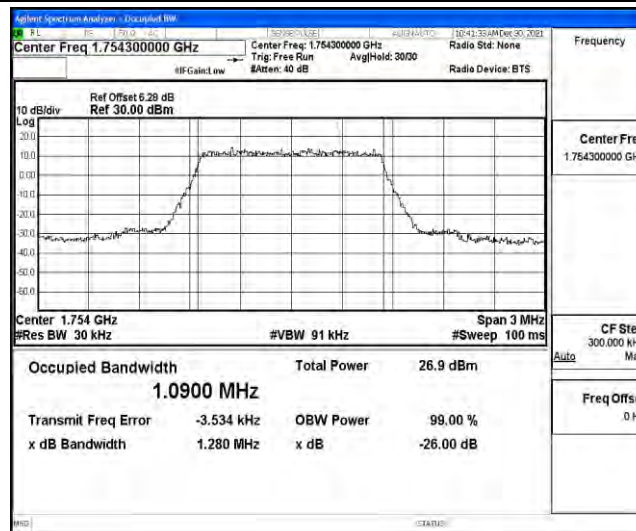
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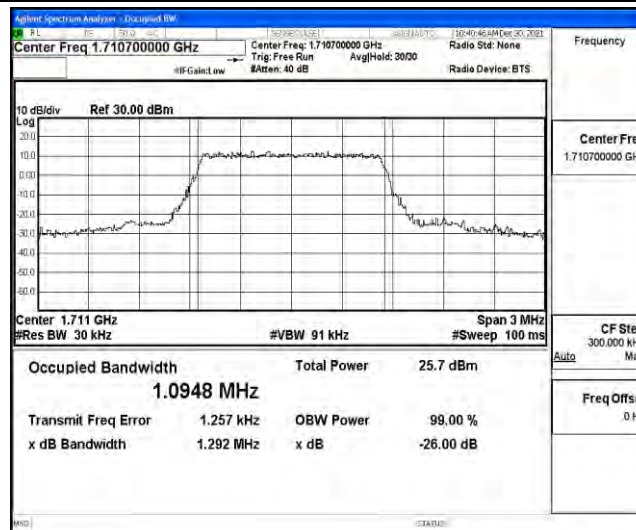
Band4-1.4MHz-QPSK-20175



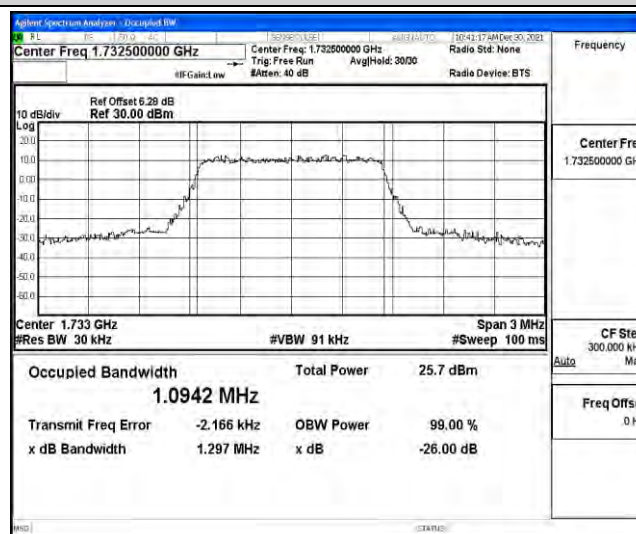
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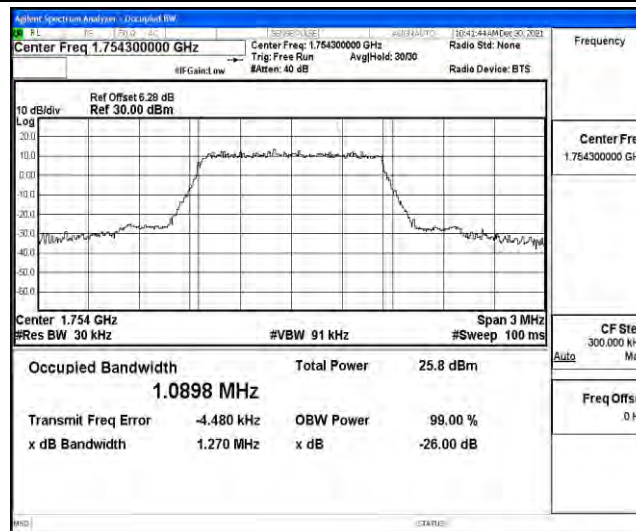
Band4-1.4MHz-16QAM-19957



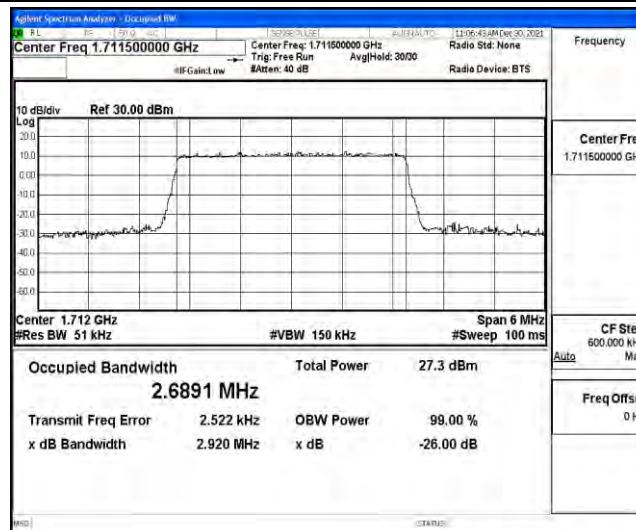
Band4-1.4MHz-16QAM-20175



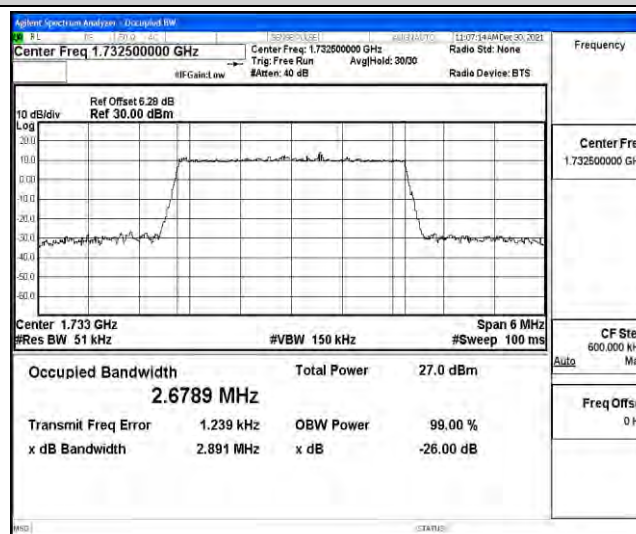
Band4-1.4MHz-16QAM-20393



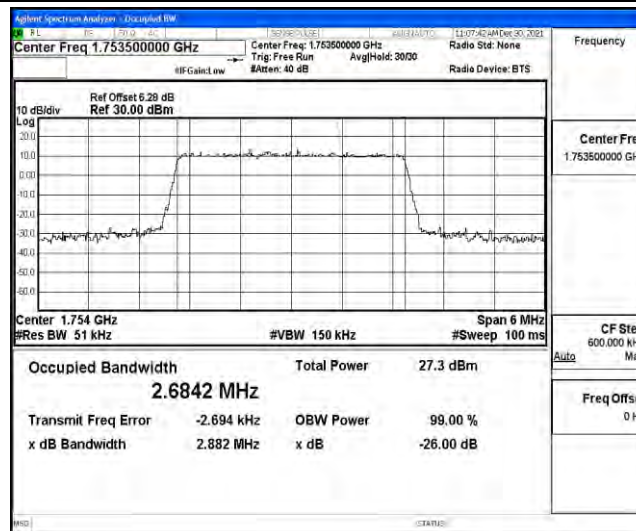
Band4-3MHz-QPSK-19965



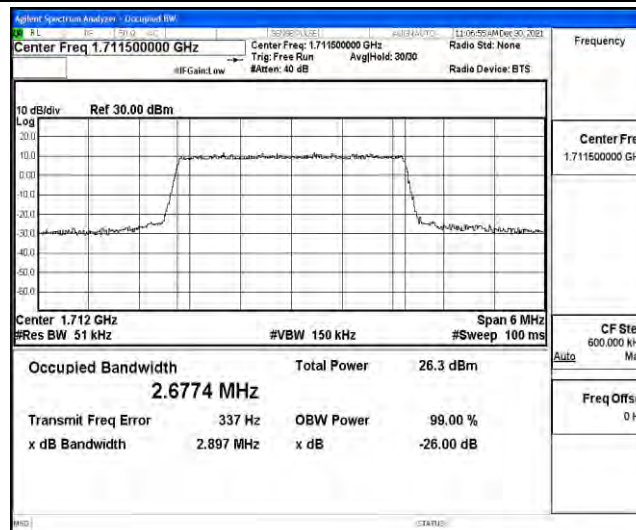
Band4-3MHz-QPSK-20175



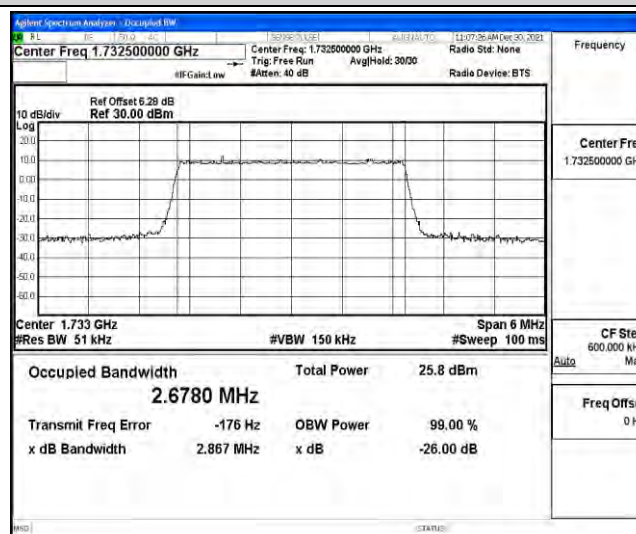
Band4-3MHz-QPSK-20385



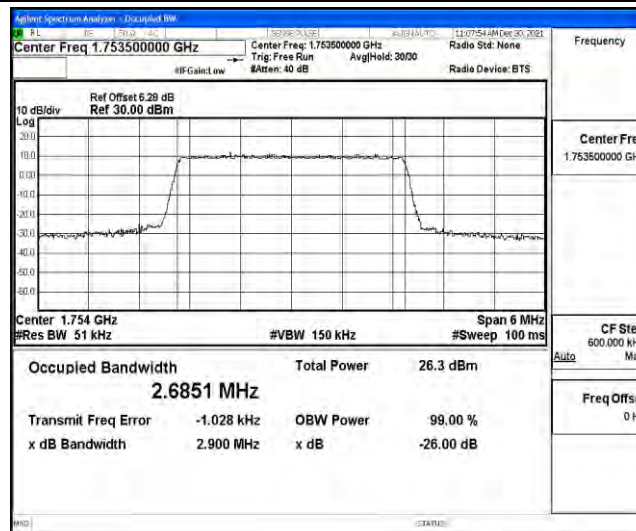
Band4-3MHz-16QAM-19965



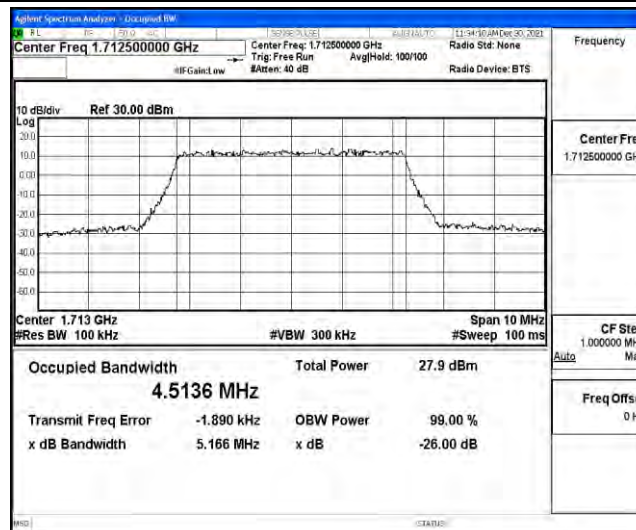
Band4-3MHz-16QAM-20175



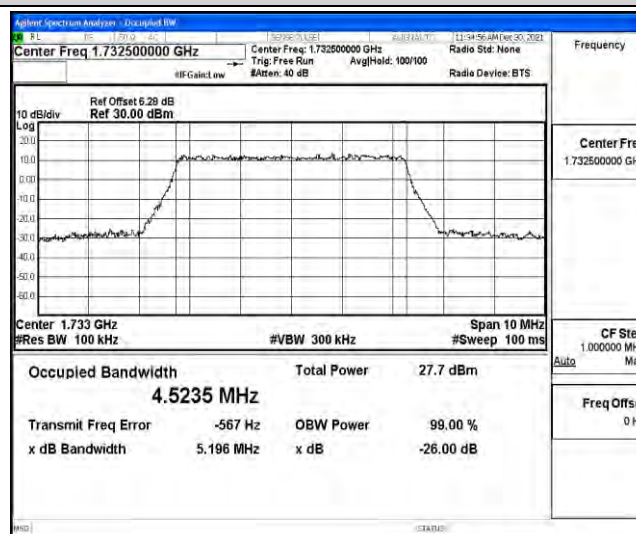
Band4-3MHz-16QAM-20385



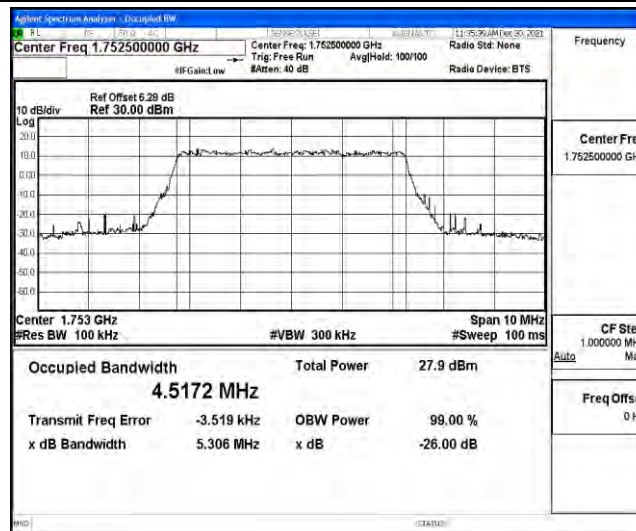
Band4-5MHz-QPSK-19975



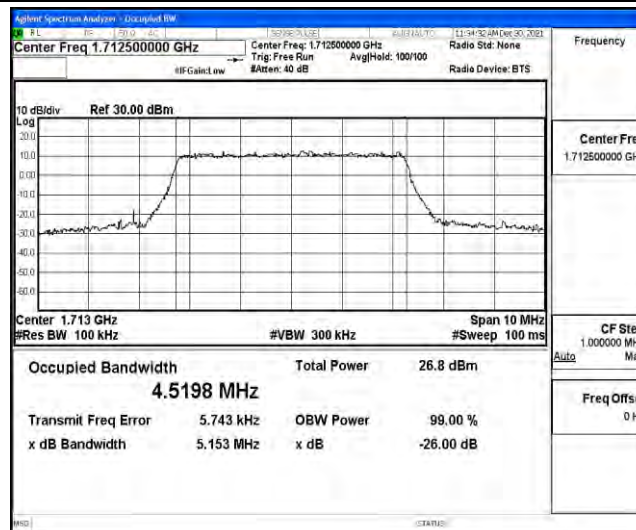
Band4-5MHz-QPSK-20175



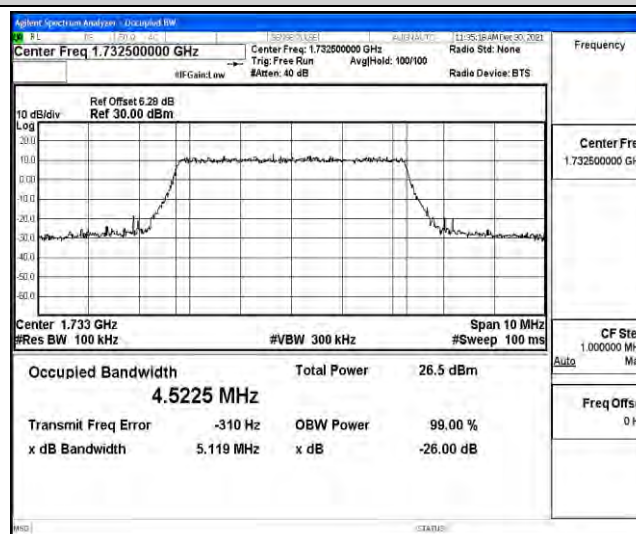
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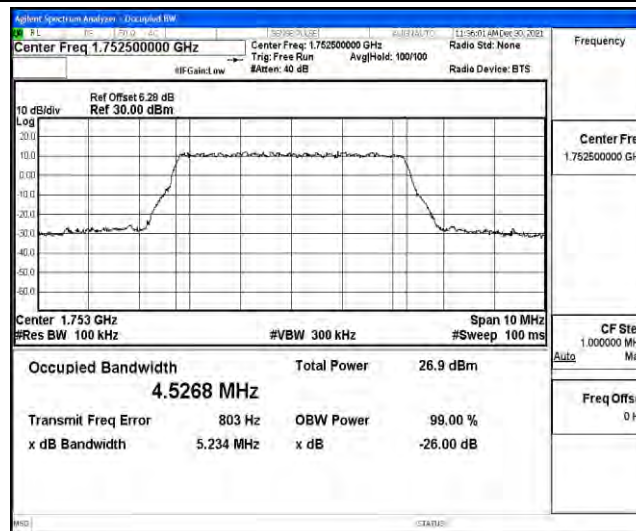
Band4-5MHz-16QAM-19975



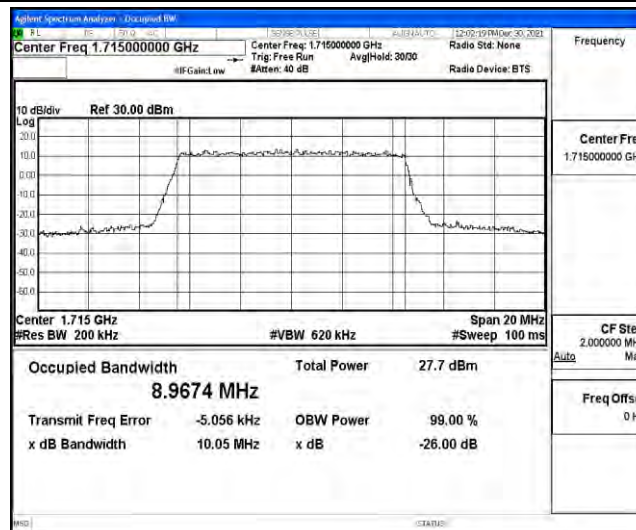
Band4-5MHz-16QAM-20175



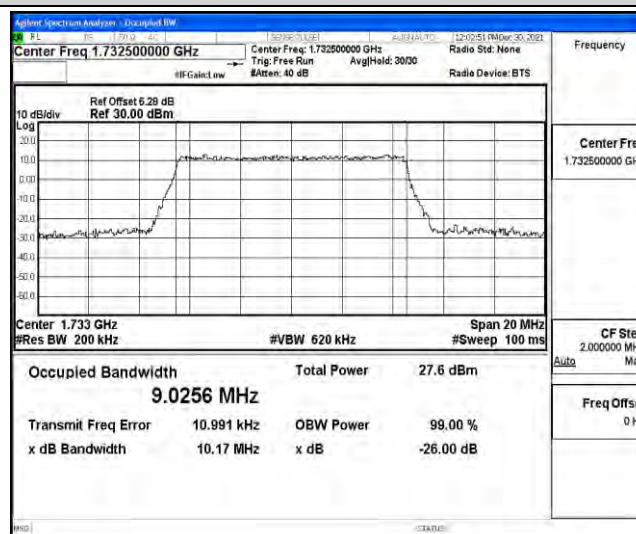
Band4-5MHz-16QAM-20375



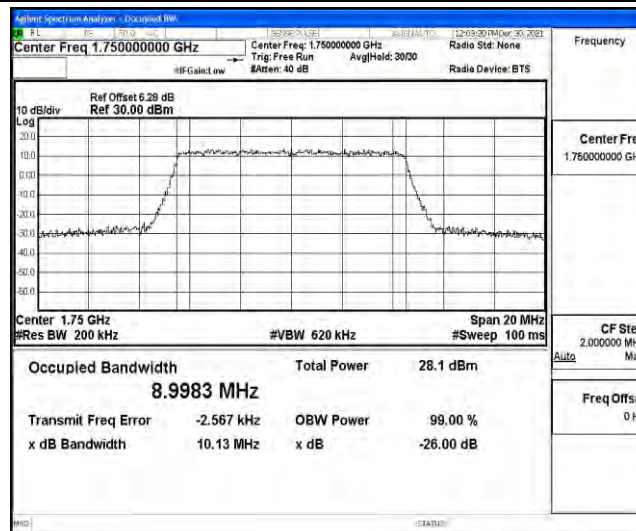
Band4-10MHz-QPSK-20000



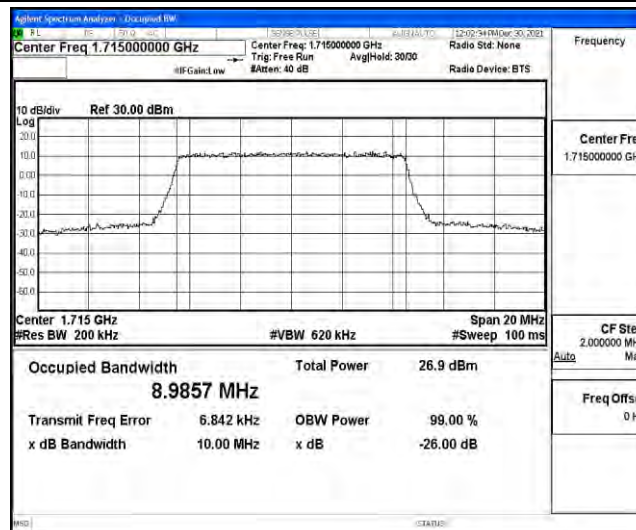
Band4-10MHz-QPSK-20175



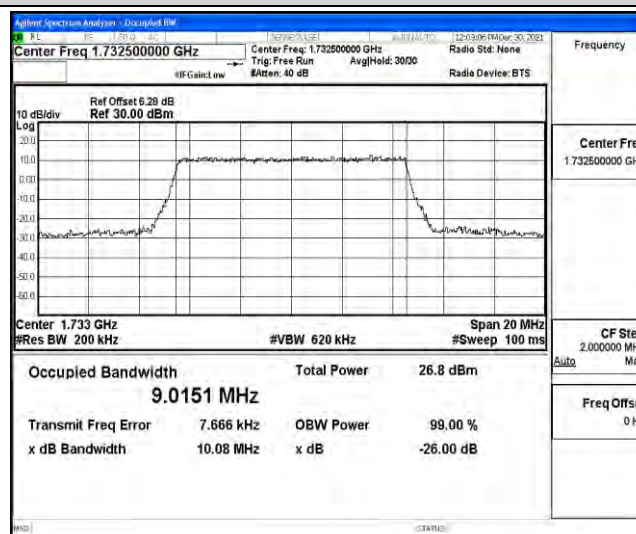
Band4-10MHz-QPSK-20350



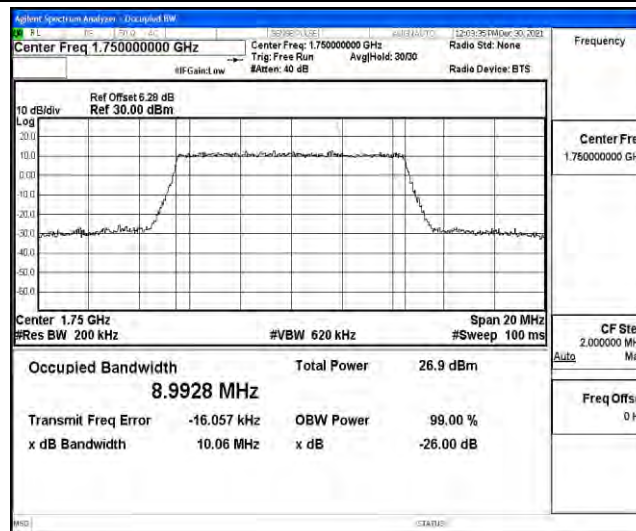
Band4-10MHz-16QAM-20000



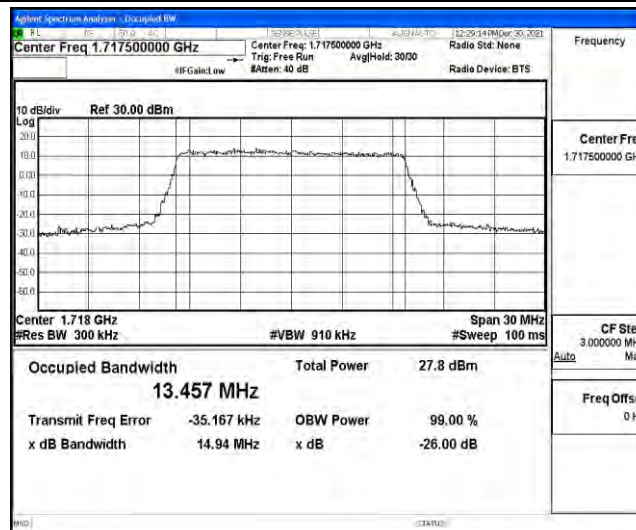
Band4-10MHz-16QAM-20175



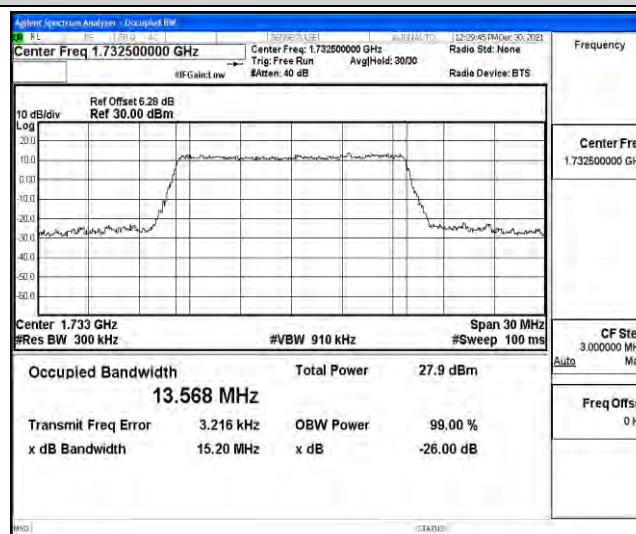
Band4-10MHz-16QAM-20350



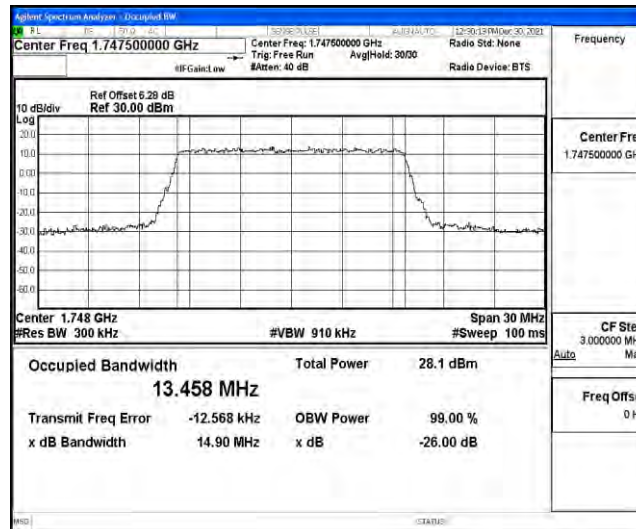
Band4-15MHz-QPSK-20025



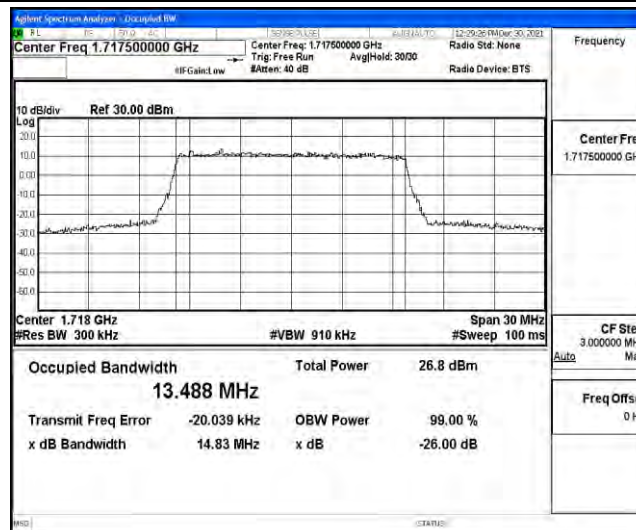
Band4-15MHz-QPSK-20175



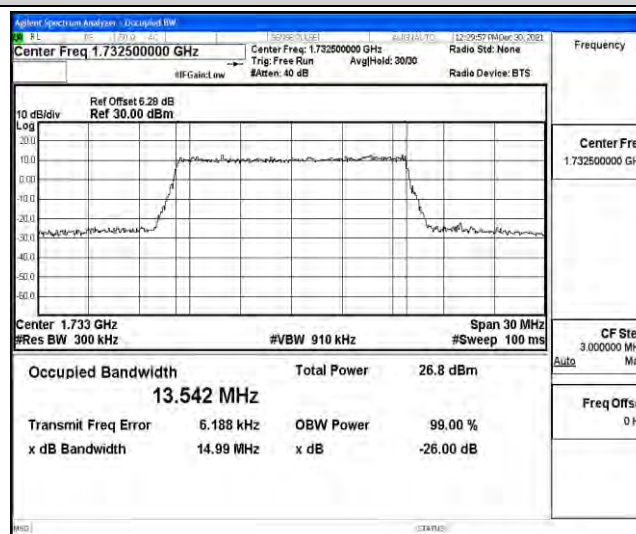
Band4-15MHz-QPSK-20325



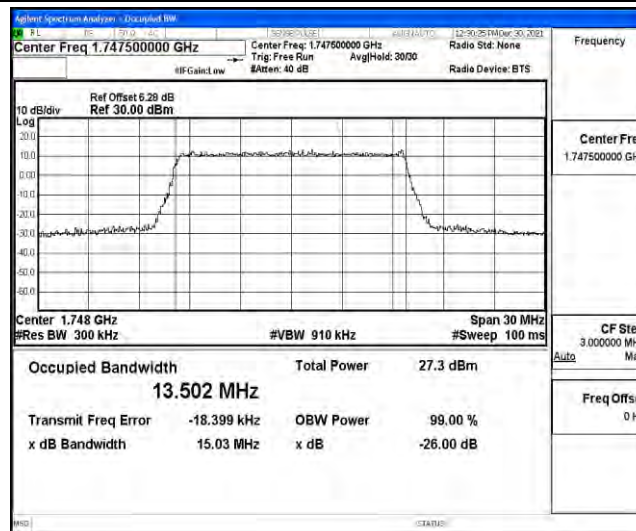
Band4-15MHz-16QAM-20025



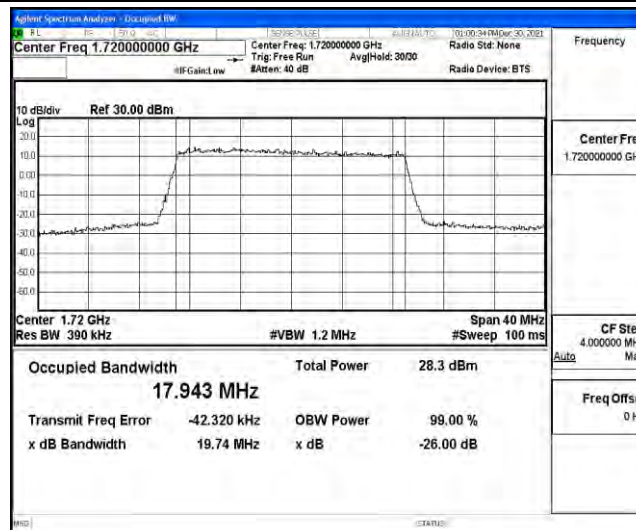
Band4-15MHz-16QAM-20175



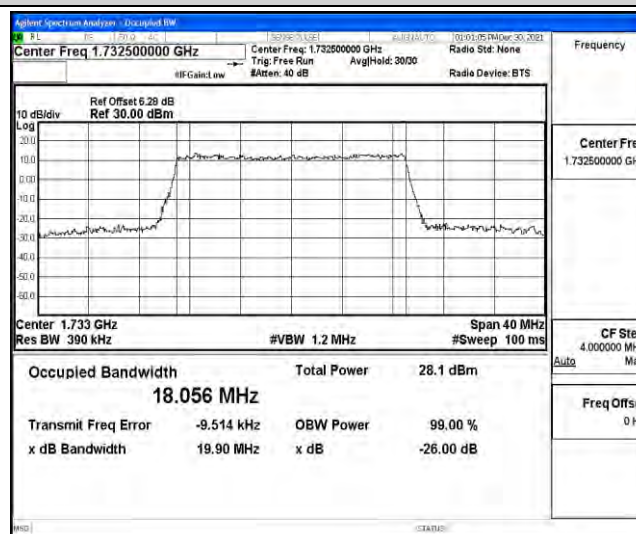
Band4-15MHz-16QAM-20325



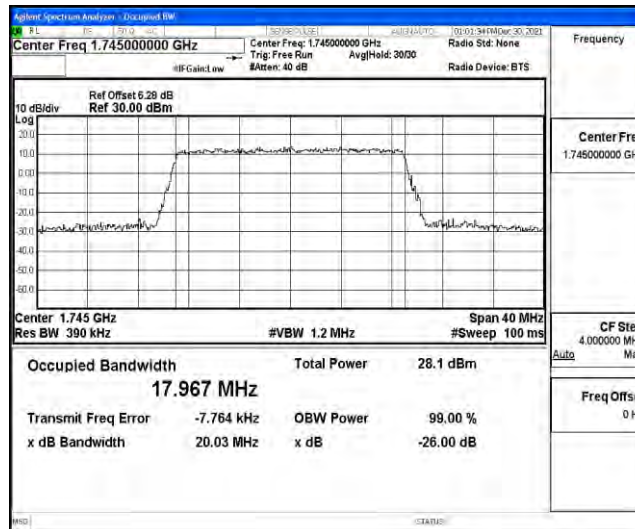
Band4-20MHz-QPSK-20050



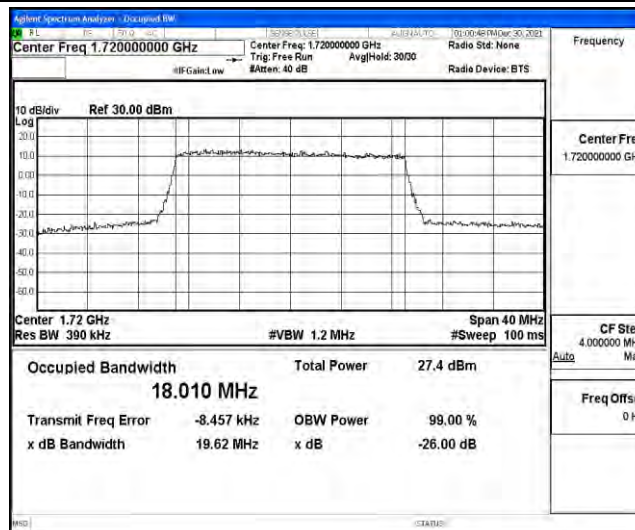
Band4-20MHz-QPSK-20175



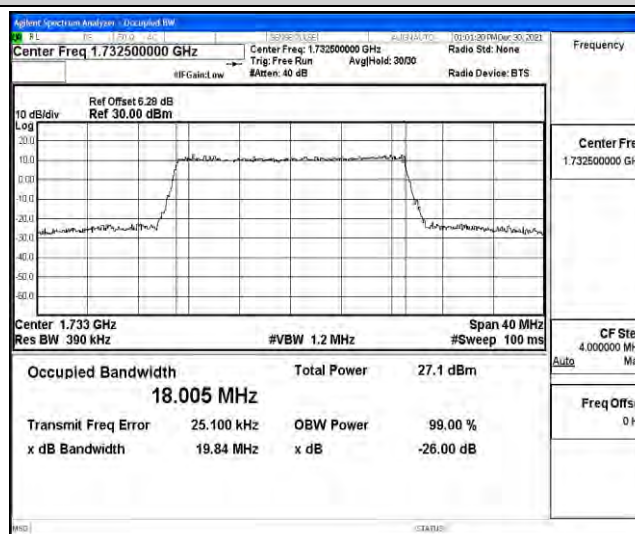
Band4-20MHz-QPSK-20300



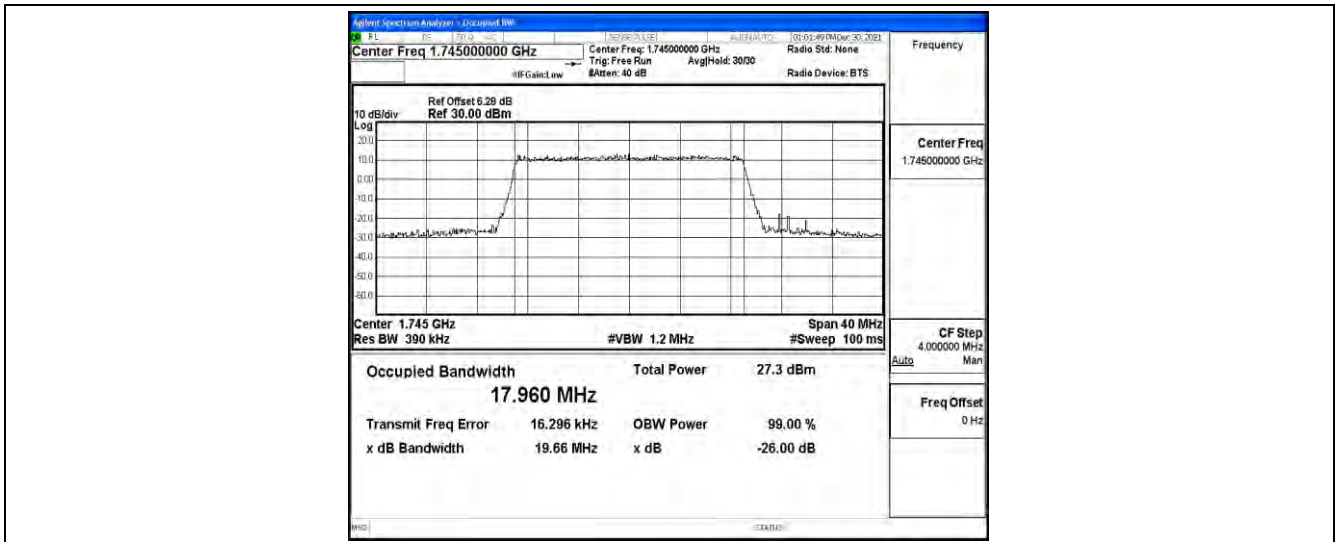
Band4-20MHz-16QAM-20050



Band4-20MHz-16QAM-20175



Band4-20MHz-16QAM-20300





D.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	-31.22	PASS
Band4	1.4MHz	QPSK	20393	-32.79	PASS
Band4	1.4MHz	16QAM	19957	-30.17	PASS
Band4	1.4MHz	16QAM	20393	-32.09	PASS
Band4	3MHz	QPSK	19965	-33.39	PASS
Band4	3MHz	QPSK	20385	-33.42	PASS
Band4	3MHz	16QAM	19965	-32.54	PASS
Band4	3MHz	16QAM	20385	-34.55	PASS
Band4	5MHz	QPSK	19975	-25.37	PASS
Band4	5MHz	QPSK	20375	-26.04	PASS
Band4	5MHz	16QAM	19975	-27.08	PASS
Band4	5MHz	16QAM	20375	-27.04	PASS
Band4	10MHz	QPSK	20000	-29.85	PASS
Band4	10MHz	QPSK	20350	-31.22	PASS
Band4	10MHz	16QAM	20000	-30.38	PASS
Band4	10MHz	16QAM	20350	-30.78	PASS
Band4	15MHz	QPSK	20025	-30.91	PASS
Band4	15MHz	QPSK	20325	-32.12	PASS
Band4	15MHz	16QAM	20025	-30.80	PASS
Band4	15MHz	16QAM	20325	-33.28	PASS
Band4	20MHz	QPSK	20050	-31.45	PASS
Band4	20MHz	QPSK	20300	-34.16	PASS
Band4	20MHz	16QAM	20050	-31.10	PASS
Band4	20MHz	16QAM	20300	-33.86	PASS

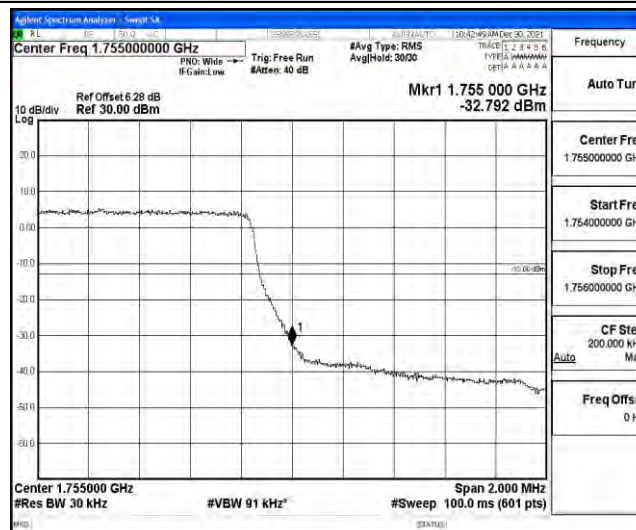


Test Graphs

Band4-1.4MHz-QPSK-19957



Band4-1.4MHz-QPSK-20393

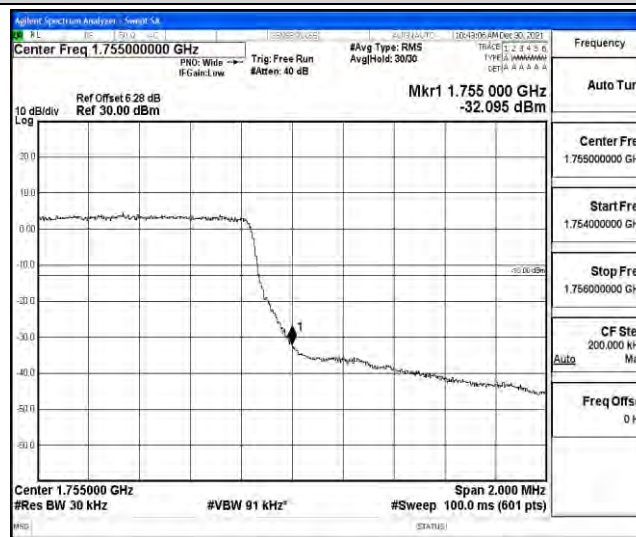


Band4-1.4MHz-16QAM-19957

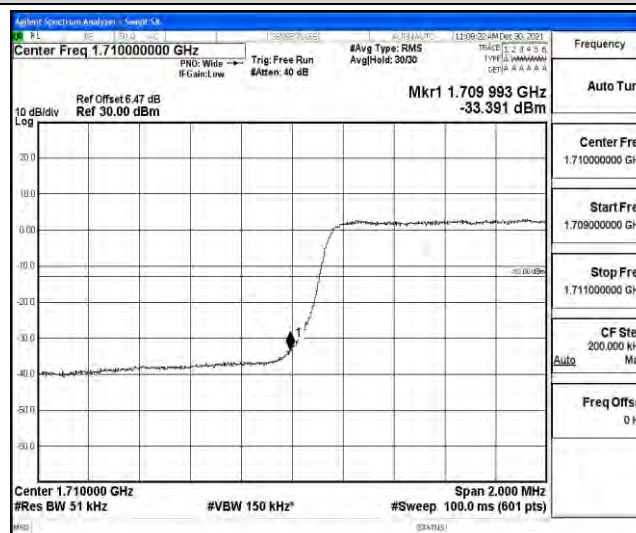




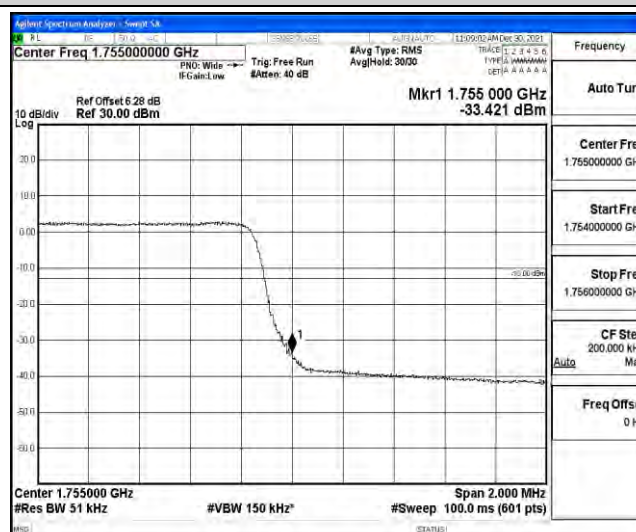
Band4-1.4MHz-16QAM-20393



Band4-3MHz-QPSK-19965



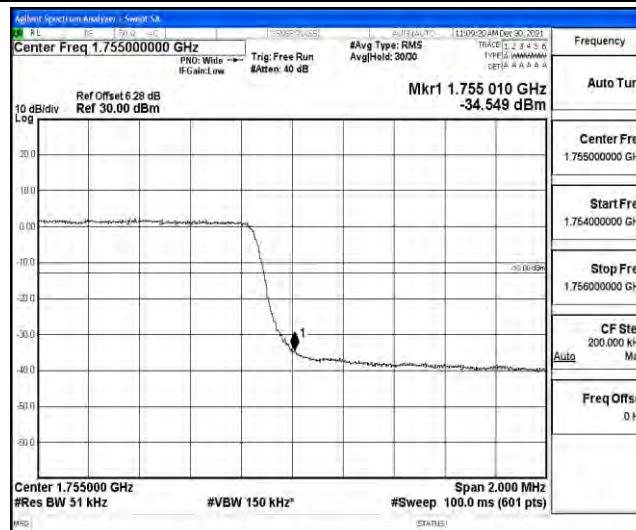
Band4-3MHz-QPSK-20385



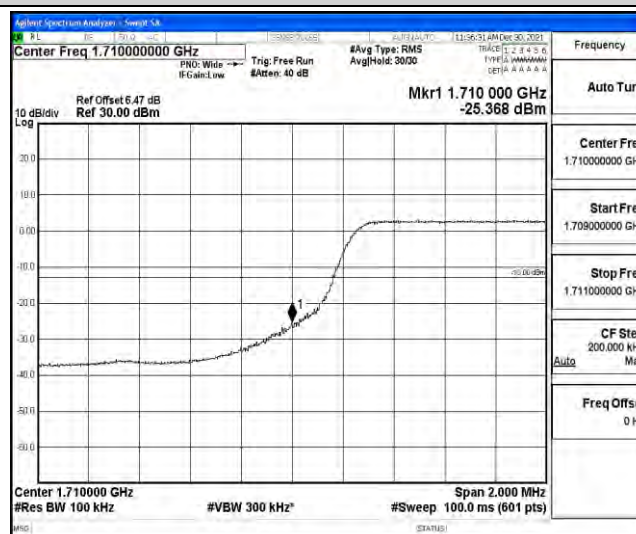
Band4-3MHz-16QAM-19965



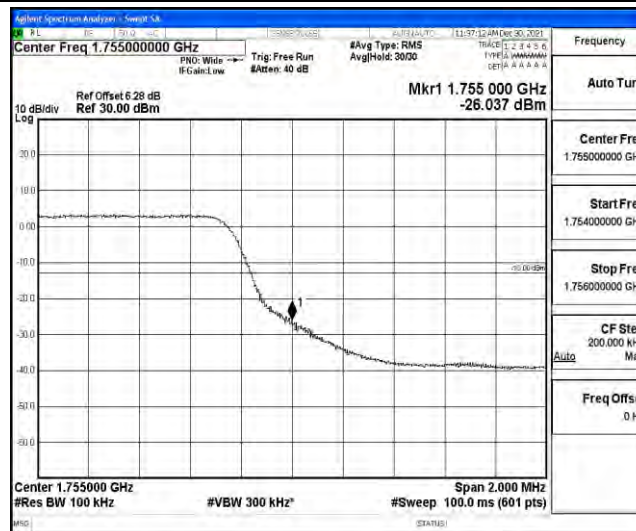
Band4-3MHz-16QAM-20385



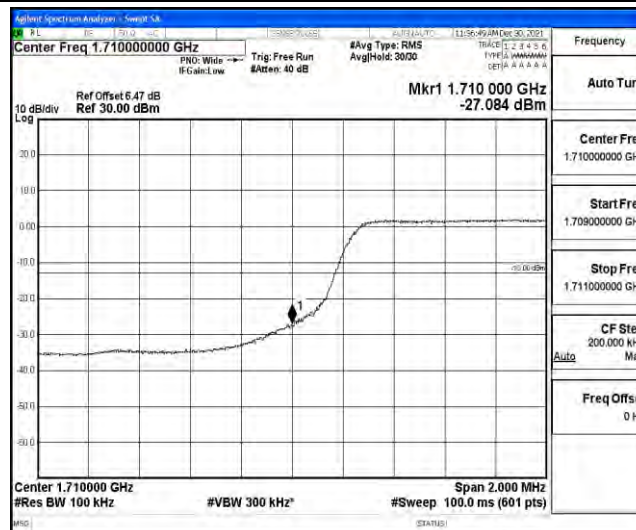
Band4-5MHz-QPSK-19975



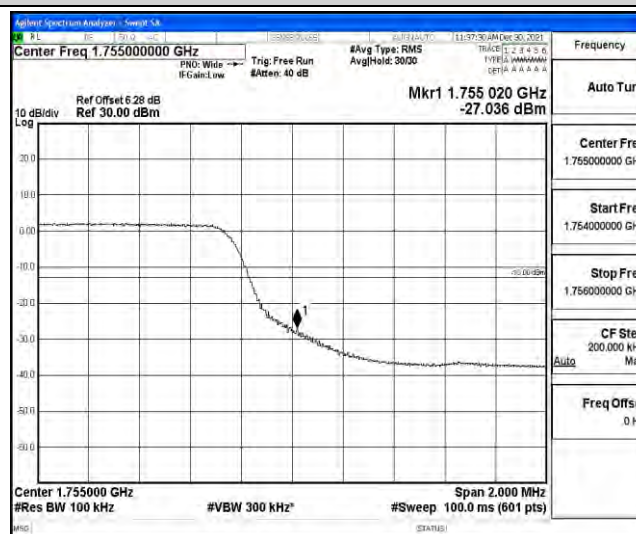
Band4-5MHz-QPSK-20375



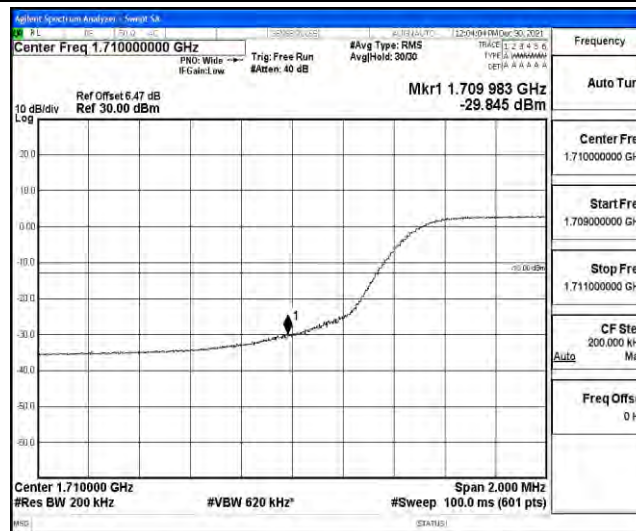
Band4-5MHz-16QAM-19975



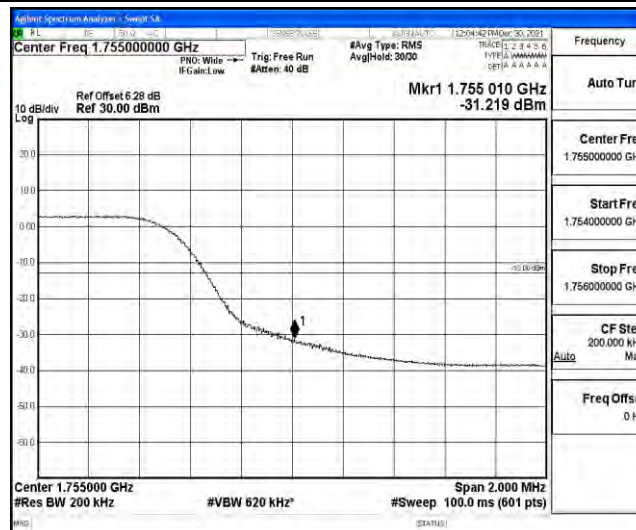
Band4-5MHz-16QAM-20375



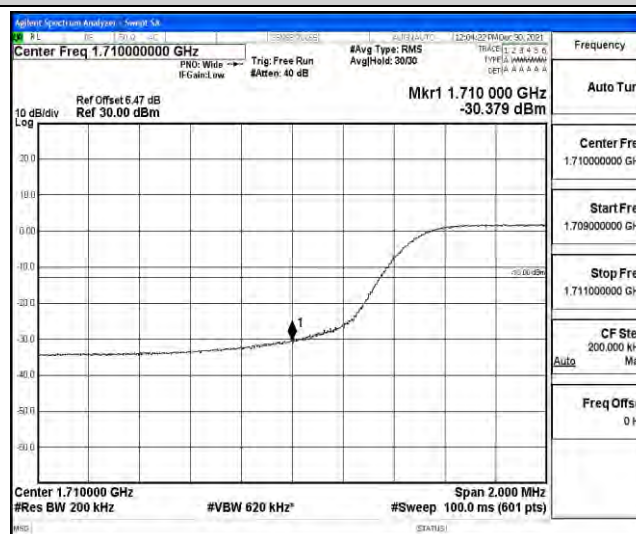
Band4-10MHz-QPSK-20000



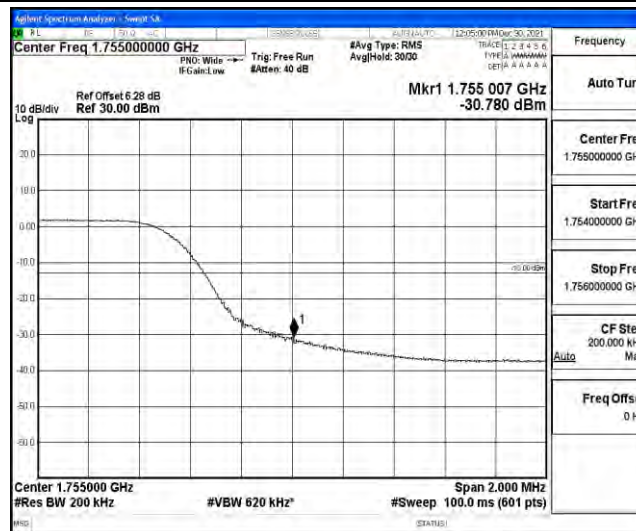
Band4-10MHz-QPSK-20350



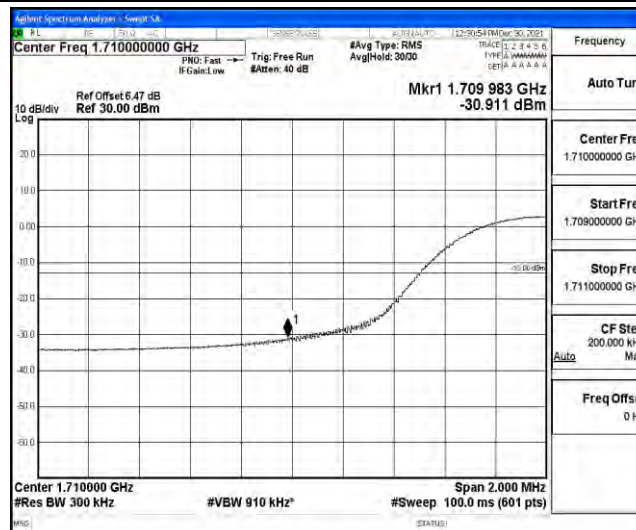
Band4-10MHz-16QAM-20000



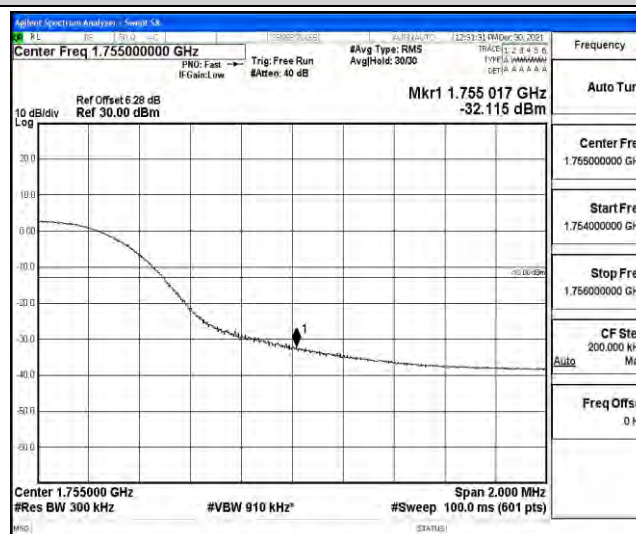
Band4-10MHz-16QAM-20350



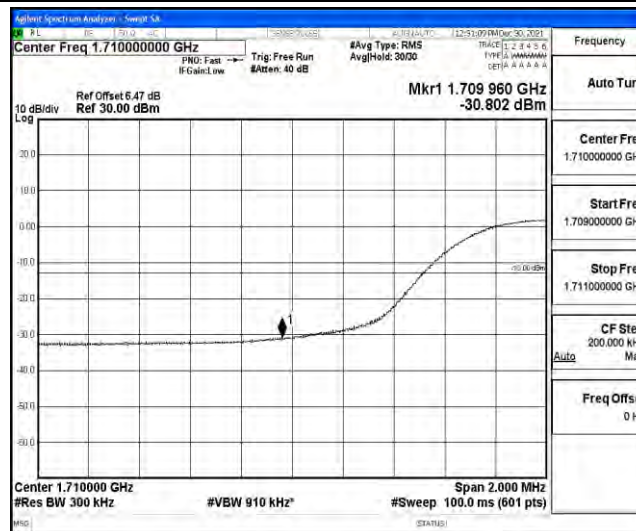
Band4-15MHz-QPSK-20025



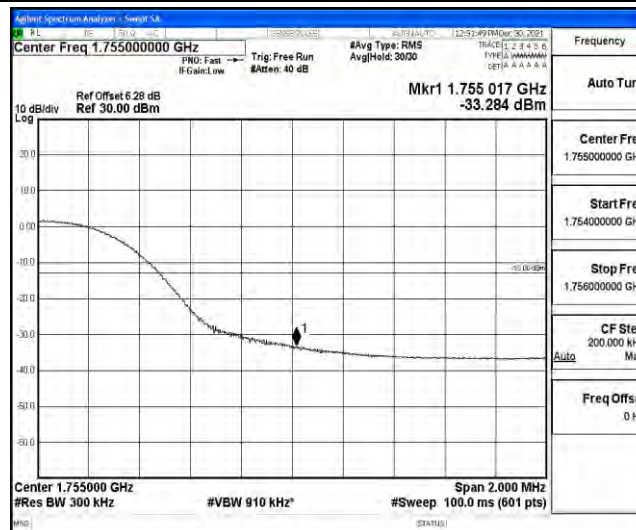
Band4-15MHz-QPSK-20325



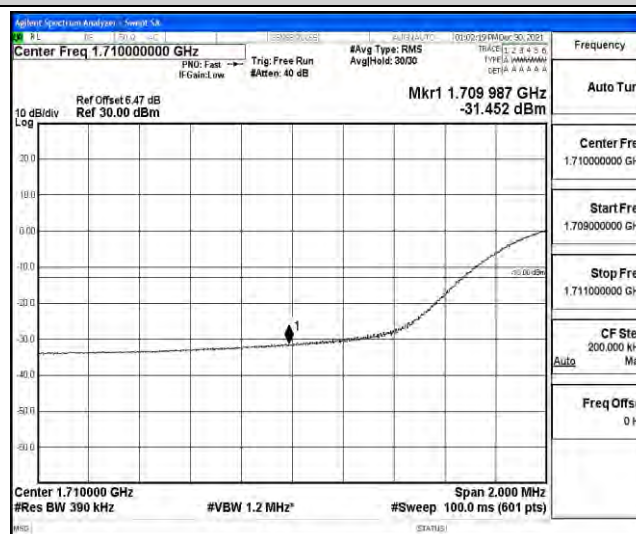
Band4-15MHz-16QAM-20025



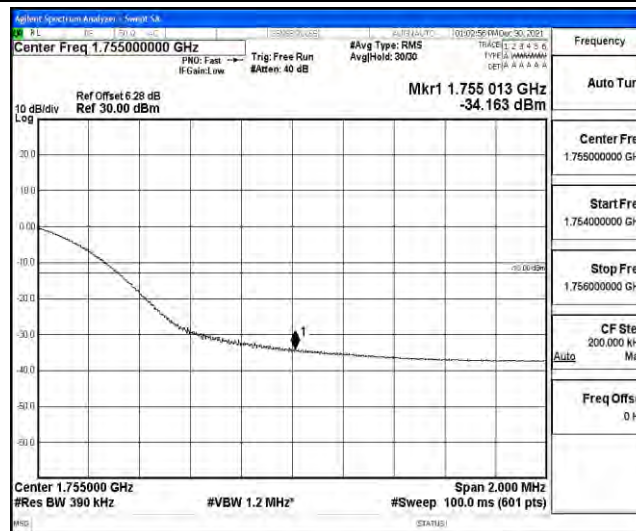
Band4-15MHz-16QAM-20325



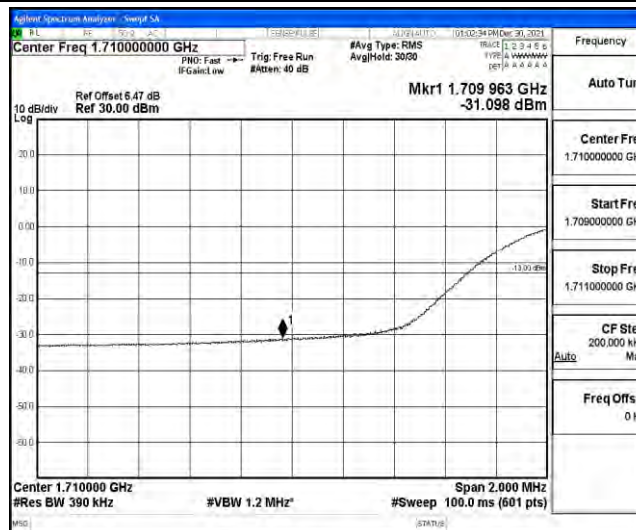
Band4-20MHz-QPSK-20050



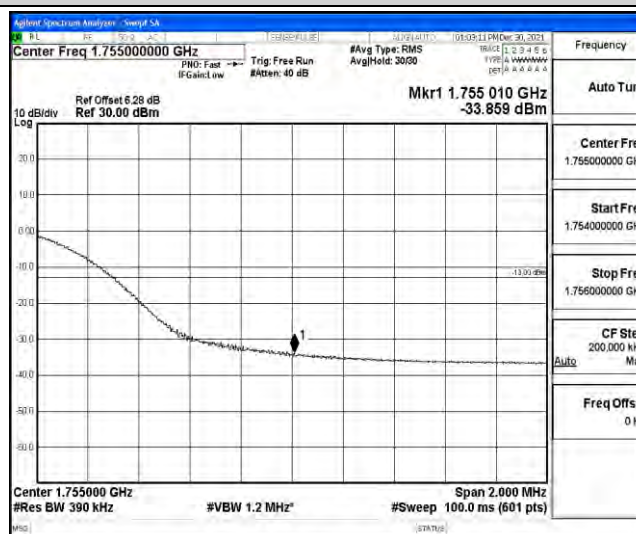
Band4-20MHz-QPSK-20300



Band4-20MHz-16QAM-20050



Band4-20MHz-16QAM-20300





D.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	Range1:0.009~0.15MHz	-56.27	PASS
Band4	1.4MHz	QPSK	19957	Range2:0.15~30MHz	-51.94	PASS
Band4	1.4MHz	QPSK	19957	Range3:30~1000MHz	-41.15	PASS
Band4	1.4MHz	QPSK	19957	Range4:1000~10000MHz	-29.43	PASS
Band4	1.4MHz	QPSK	19957	Range5:10000~20000MHz	-33.49	PASS
Band4	1.4MHz	QPSK	20175	Range1:0.009~0.15MHz	-55.93	PASS
Band4	1.4MHz	QPSK	20175	Range2:0.15~30MHz	-50.79	PASS
Band4	1.4MHz	QPSK	20175	Range3:30~1000MHz	-42.18	PASS
Band4	1.4MHz	QPSK	20175	Range4:1000~10000MHz	-30.1	PASS
Band4	1.4MHz	QPSK	20175	Range5:10000~20000MHz	-33.5	PASS
Band4	1.4MHz	QPSK	20393	Range1:0.009~0.15MHz	-55.87	PASS
Band4	1.4MHz	QPSK	20393	Range2:0.15~30MHz	-51.51	PASS
Band4	1.4MHz	QPSK	20393	Range3:30~1000MHz	-41.82	PASS
Band4	1.4MHz	QPSK	20393	Range4:1000~10000MHz	-33.19	PASS
Band4	1.4MHz	QPSK	20393	Range5:10000~20000MHz	-33.6	PASS
Band4	1.4MHz	16QAM	19957	Range1:0.009~0.15MHz	-56.29	PASS
Band4	1.4MHz	16QAM	19957	Range2:0.15~30MHz	-52.16	PASS
Band4	1.4MHz	16QAM	19957	Range3:30~1000MHz	-42.17	PASS
Band4	1.4MHz	16QAM	19957	Range4:1000~10000MHz	-30.6	PASS
Band4	1.4MHz	16QAM	19957	Range5:10000~20000MHz	-33.37	PASS
Band4	1.4MHz	16QAM	20175	Range1:0.009~0.15MHz	-55.15	PASS
Band4	1.4MHz	16QAM	20175	Range2:0.15~30MHz	-51.11	PASS
Band4	1.4MHz	16QAM	20175	Range3:30~1000MHz	-42.15	PASS
Band4	1.4MHz	16QAM	20175	Range4:1000~10000MHz	-31.26	PASS
Band4	1.4MHz	16QAM	20175	Range5:10000~20000MHz	-33.44	PASS
Band4	1.4MHz	16QAM	20393	Range1:0.009~0.15MHz	-56.32	PASS
Band4	1.4MHz	16QAM	20393	Range2:0.15~30MHz	-1000	PASS
Band4	1.4MHz	16QAM	20393	Range3:30~1000MHz	-42.13	PASS
Band4	1.4MHz	16QAM	20393	Range4:1000~10000MHz	-34.21	PASS
Band4	1.4MHz	16QAM	20393	Range5:10000~20000MHz	-33.44	PASS
Band4	3MHz	QPSK	19965	Range1:0.009~0.15MHz	-57.55	PASS
Band4	3MHz	QPSK	19965	Range2:0.15~30MHz	-50.63	PASS
Band4	3MHz	QPSK	19965	Range3:30~1000MHz	-42.37	PASS
Band4	3MHz	QPSK	19965	Range4:1000~10000MHz	-29.68	PASS
Band4	3MHz	QPSK	19965	Range5:10000~20000MHz	-33.41	PASS



Band4	3MHz	QPSK	20175	Range1:0.009~0.15MHz	-57.64	PASS
Band4	3MHz	QPSK	20175	Range2:0.15~30MHz	-51.59	PASS
Band4	3MHz	QPSK	20175	Range3:30~1000MHz	-42.47	PASS
Band4	3MHz	QPSK	20175	Range4:1000~10000MHz	-29.92	PASS
Band4	3MHz	QPSK	20175	Range5:10000~20000MHz	-33.41	PASS
Band4	3MHz	QPSK	20385	Range1:0.009~0.15MHz	-56.06	PASS
Band4	3MHz	QPSK	20385	Range2:0.15~30MHz	-53.19	PASS
Band4	3MHz	QPSK	20385	Range3:30~1000MHz	-42.84	PASS
Band4	3MHz	QPSK	20385	Range4:1000~10000MHz	-33.54	PASS
Band4	3MHz	QPSK	20385	Range5:10000~20000MHz	-33.63	PASS
Band4	3MHz	16QAM	19965	Range1:0.009~0.15MHz	-57.61	PASS
Band4	3MHz	16QAM	19965	Range2:0.15~30MHz	-51.64	PASS
Band4	3MHz	16QAM	19965	Range3:30~1000MHz	-42.82	PASS
Band4	3MHz	16QAM	19965	Range4:1000~10000MHz	-30.18	PASS
Band4	3MHz	16QAM	19965	Range5:10000~20000MHz	-33.45	PASS
Band4	3MHz	16QAM	20175	Range1:0.009~0.15MHz	-56.26	PASS
Band4	3MHz	16QAM	20175	Range2:0.15~30MHz	-54.31	PASS
Band4	3MHz	16QAM	20175	Range3:30~1000MHz	-42.24	PASS
Band4	3MHz	16QAM	20175	Range4:1000~10000MHz	-30.66	PASS
Band4	3MHz	16QAM	20175	Range5:10000~20000MHz	-33.51	PASS
Band4	3MHz	16QAM	20385	Range1:0.009~0.15MHz	-56.3	PASS
Band4	3MHz	16QAM	20385	Range2:0.15~30MHz	-50.83	PASS
Band4	3MHz	16QAM	20385	Range3:30~1000MHz	-42.1	PASS
Band4	3MHz	16QAM	20385	Range4:1000~10000MHz	-34.07	PASS
Band4	3MHz	16QAM	20385	Range5:10000~20000MHz	-33.37	PASS
Band4	5MHz	QPSK	19975	Range1:0.009~0.15MHz	-55.81	PASS
Band4	5MHz	QPSK	19975	Range2:0.15~30MHz	-52.04	PASS
Band4	5MHz	QPSK	19975	Range3:30~1000MHz	-40.67	PASS
Band4	5MHz	QPSK	19975	Range4:1000~10000MHz	-29.65	PASS
Band4	5MHz	QPSK	19975	Range5:10000~20000MHz	-33.63	PASS
Band4	5MHz	QPSK	20175	Range1:0.009~0.15MHz	-56.31	PASS
Band4	5MHz	QPSK	20175	Range2:0.15~30MHz	-52.2	PASS
Band4	5MHz	QPSK	20175	Range3:30~1000MHz	-41.59	PASS
Band4	5MHz	QPSK	20175	Range4:1000~10000MHz	-29.64	PASS
Band4	5MHz	QPSK	20175	Range5:10000~20000MHz	-33.27	PASS
Band4	5MHz	QPSK	20375	Range1:0.009~0.15MHz	-55.48	PASS
Band4	5MHz	QPSK	20375	Range2:0.15~30MHz	-51.8	PASS
Band4	5MHz	QPSK	20375	Range3:30~1000MHz	-41.5	PASS
Band4	5MHz	QPSK	20375	Range4:1000~10000MHz	-33.88	PASS
Band4	5MHz	QPSK	20375	Range5:10000~20000MHz	-33.56	PASS
Band4	5MHz	16QAM	19975	Range1:0.009~0.15MHz	-56.66	PASS
Band4	5MHz	16QAM	19975	Range2:0.15~30MHz	-52.53	PASS
Band4	5MHz	16QAM	19975	Range3:30~1000MHz	-41.38	PASS



Band4	5MHz	16QAM	19975	Range4:1000~10000MHz	-30.59	PASS
Band4	5MHz	16QAM	19975	Range5:10000~20000MHz	-33.44	PASS
Band4	5MHz	16QAM	20175	Range1:0.009~0.15MHz	-56.59	PASS
Band4	5MHz	16QAM	20175	Range2:0.15~30MHz	-52.94	PASS
Band4	5MHz	16QAM	20175	Range3:30~1000MHz	-42.45	PASS
Band4	5MHz	16QAM	20175	Range4:1000~10000MHz	-30.78	PASS
Band4	5MHz	16QAM	20175	Range5:10000~20000MHz	-33.49	PASS
Band4	5MHz	16QAM	20375	Range1:0.009~0.15MHz	-55.68	PASS
Band4	5MHz	16QAM	20375	Range2:0.15~30MHz	-52.33	PASS
Band4	5MHz	16QAM	20375	Range3:30~1000MHz	-42.91	PASS
Band4	5MHz	16QAM	20375	Range4:1000~10000MHz	-34.12	PASS
Band4	5MHz	16QAM	20375	Range5:10000~20000MHz	-33.55	PASS
Band4	10MHz	QPSK	20000	Range1:0.009~0.15MHz	-56.34	PASS
Band4	10MHz	QPSK	20000	Range2:0.15~30MHz	-50.18	PASS
Band4	10MHz	QPSK	20000	Range3:30~1000MHz	-42.49	PASS
Band4	10MHz	QPSK	20000	Range4:1000~10000MHz	-30.2	PASS
Band4	10MHz	QPSK	20000	Range5:10000~20000MHz	-33.44	PASS
Band4	10MHz	QPSK	20175	Range1:0.009~0.15MHz	-58.46	PASS
Band4	10MHz	QPSK	20175	Range2:0.15~30MHz	-50.77	PASS
Band4	10MHz	QPSK	20175	Range3:30~1000MHz	-42.37	PASS
Band4	10MHz	QPSK	20175	Range4:1000~10000MHz	-29.17	PASS
Band4	10MHz	QPSK	20175	Range5:10000~20000MHz	-33.45	PASS
Band4	10MHz	QPSK	20350	Range1:0.009~0.15MHz	-56.27	PASS
Band4	10MHz	QPSK	20350	Range2:0.15~30MHz	-52	PASS
Band4	10MHz	QPSK	20350	Range3:30~1000MHz	-43.01	PASS
Band4	10MHz	QPSK	20350	Range4:1000~10000MHz	-33.13	PASS
Band4	10MHz	QPSK	20350	Range5:10000~20000MHz	-33.4	PASS
Band4	10MHz	16QAM	20000	Range1:0.009~0.15MHz	-56.63	PASS
Band4	10MHz	16QAM	20000	Range2:0.15~30MHz	-51.25	PASS
Band4	10MHz	16QAM	20000	Range3:30~1000MHz	-43.45	PASS
Band4	10MHz	16QAM	20000	Range4:1000~10000MHz	-30.61	PASS
Band4	10MHz	16QAM	20000	Range5:10000~20000MHz	-33.45	PASS
Band4	10MHz	16QAM	20175	Range1:0.009~0.15MHz	-55.35	PASS
Band4	10MHz	16QAM	20175	Range2:0.15~30MHz	-52.24	PASS
Band4	10MHz	16QAM	20175	Range3:30~1000MHz	-42.04	PASS
Band4	10MHz	16QAM	20175	Range4:1000~10000MHz	-30.03	PASS
Band4	10MHz	16QAM	20175	Range5:10000~20000MHz	-33.43	PASS
Band4	10MHz	16QAM	20350	Range1:0.009~0.15MHz	-55.97	PASS
Band4	10MHz	16QAM	20350	Range2:0.15~30MHz	-52.3	PASS
Band4	10MHz	16QAM	20350	Range3:30~1000MHz	-43.29	PASS
Band4	10MHz	16QAM	20350	Range4:1000~10000MHz	-33.96	PASS
Band4	10MHz	16QAM	20350	Range5:10000~20000MHz	-33.32	PASS
Band4	15MHz	QPSK	20025	Range1:0.009~0.15MHz	-56.41	PASS



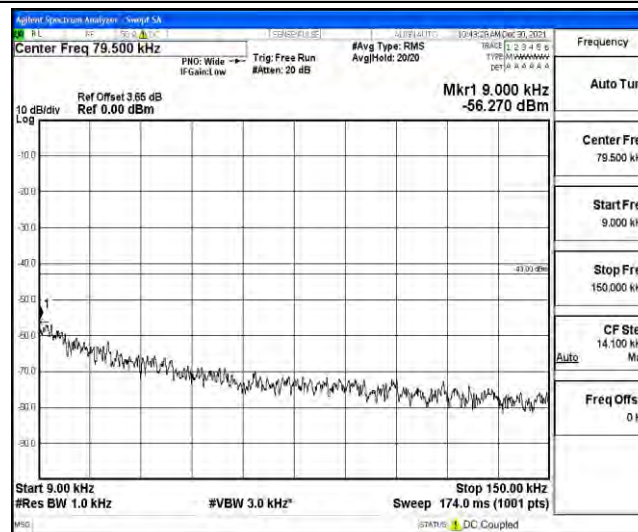
Band4	15MHz	QPSK	20025	Range2:0.15~30MHz	-52.11	PASS
Band4	15MHz	QPSK	20025	Range3:30~1000MHz	-43.6	PASS
Band4	15MHz	QPSK	20025	Range4:1000~10000MHz	-30.31	PASS
Band4	15MHz	QPSK	20025	Range5:10000~20000MHz	-33.45	PASS
Band4	15MHz	QPSK	20175	Range1:0.009~0.15MHz	-56.51	PASS
Band4	15MHz	QPSK	20175	Range2:0.15~30MHz	-52.41	PASS
Band4	15MHz	QPSK	20175	Range3:30~1000MHz	-42.82	PASS
Band4	15MHz	QPSK	20175	Range4:1000~10000MHz	-29.08	PASS
Band4	15MHz	QPSK	20175	Range5:10000~20000MHz	-33.31	PASS
Band4	15MHz	QPSK	20325	Range1:0.009~0.15MHz	-55.64	PASS
Band4	15MHz	QPSK	20325	Range2:0.15~30MHz	-51.25	PASS
Band4	15MHz	QPSK	20325	Range3:30~1000MHz	-42.88	PASS
Band4	15MHz	QPSK	20325	Range4:1000~10000MHz	-32.45	PASS
Band4	15MHz	QPSK	20325	Range5:10000~20000MHz	-33.44	PASS
Band4	15MHz	16QAM	20025	Range1:0.009~0.15MHz	-55.8	PASS
Band4	15MHz	16QAM	20025	Range2:0.15~30MHz	-52.04	PASS
Band4	15MHz	16QAM	20025	Range3:30~1000MHz	-43.09	PASS
Band4	15MHz	16QAM	20025	Range4:1000~10000MHz	-31.29	PASS
Band4	15MHz	16QAM	20025	Range5:10000~20000MHz	-33.51	PASS
Band4	15MHz	16QAM	20175	Range1:0.009~0.15MHz	-55.27	PASS
Band4	15MHz	16QAM	20175	Range2:0.15~30MHz	-52.42	PASS
Band4	15MHz	16QAM	20175	Range3:30~1000MHz	-43.25	PASS
Band4	15MHz	16QAM	20175	Range4:1000~10000MHz	-29.28	PASS
Band4	15MHz	16QAM	20175	Range5:10000~20000MHz	-33.48	PASS
Band4	15MHz	16QAM	20325	Range1:0.009~0.15MHz	-55.3	PASS
Band4	15MHz	16QAM	20325	Range2:0.15~30MHz	-52.22	PASS
Band4	15MHz	16QAM	20325	Range3:30~1000MHz	-43.31	PASS
Band4	15MHz	16QAM	20325	Range4:1000~10000MHz	-32.92	PASS
Band4	15MHz	16QAM	20325	Range5:10000~20000MHz	-33.4	PASS
Band4	20MHz	QPSK	20050	Range1:0.009~0.15MHz	-55.22	PASS
Band4	20MHz	QPSK	20050	Range2:0.15~30MHz	-51.04	PASS
Band4	20MHz	QPSK	20050	Range3:30~1000MHz	-43.05	PASS
Band4	20MHz	QPSK	20050	Range4:1000~10000MHz	-30.7	PASS
Band4	20MHz	QPSK	20050	Range5:10000~20000MHz	-33.36	PASS
Band4	20MHz	QPSK	20175	Range1:0.009~0.15MHz	-57.09	PASS
Band4	20MHz	QPSK	20175	Range2:0.15~30MHz	-52.06	PASS
Band4	20MHz	QPSK	20175	Range3:30~1000MHz	-43.01	PASS
Band4	20MHz	QPSK	20175	Range4:1000~10000MHz	-29.01	PASS
Band4	20MHz	QPSK	20175	Range5:10000~20000MHz	-33.53	PASS
Band4	20MHz	QPSK	20300	Range1:0.009~0.15MHz	-56.44	PASS
Band4	20MHz	QPSK	20300	Range2:0.15~30MHz	-50.92	PASS
Band4	20MHz	QPSK	20300	Range3:30~1000MHz	-42.55	PASS
Band4	20MHz	QPSK	20300	Range4:1000~10000MHz	-31.68	PASS



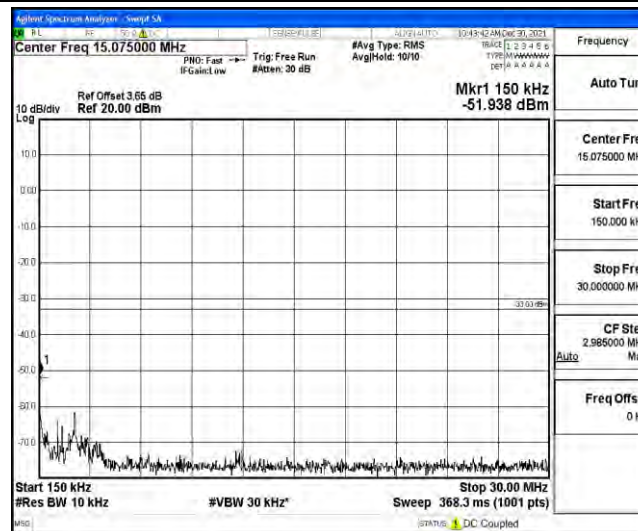
Band4	20MHz	QPSK	20300	Range5:10000~20000MHz	-33.47	PASS
Band4	20MHz	16QAM	20050	Range1:0.009~0.15MHz	-56.31	PASS
Band4	20MHz	16QAM	20050	Range2:0.15~30MHz	-53.15	PASS
Band4	20MHz	16QAM	20050	Range3:30~1000MHz	-42.71	PASS
Band4	20MHz	16QAM	20050	Range4:1000~10000MHz	-31.1	PASS
Band4	20MHz	16QAM	20050	Range5:10000~20000MHz	-33.39	PASS
Band4	20MHz	16QAM	20175	Range1:0.009~0.15MHz	-55.59	PASS
Band4	20MHz	16QAM	20175	Range2:0.15~30MHz	-51.7	PASS
Band4	20MHz	16QAM	20175	Range3:30~1000MHz	-43.68	PASS
Band4	20MHz	16QAM	20175	Range4:1000~10000MHz	-29.59	PASS
Band4	20MHz	16QAM	20175	Range5:10000~20000MHz	-33.27	PASS
Band4	20MHz	16QAM	20300	Range1:0.009~0.15MHz	-55.44	PASS
Band4	20MHz	16QAM	20300	Range2:0.15~30MHz	-50.97	PASS
Band4	20MHz	16QAM	20300	Range3:30~1000MHz	-43.42	PASS
Band4	20MHz	16QAM	20300	Range4:1000~10000MHz	-32.11	PASS
Band4	20MHz	16QAM	20300	Range5:10000~20000MHz	-33.35	PASS

Test Graphs

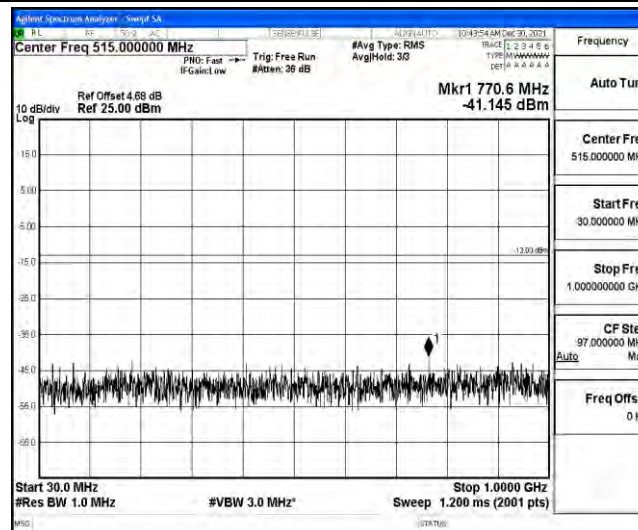
Band4-1.4MHz-QPSK-19957-Range1:0.009~0.15MHz



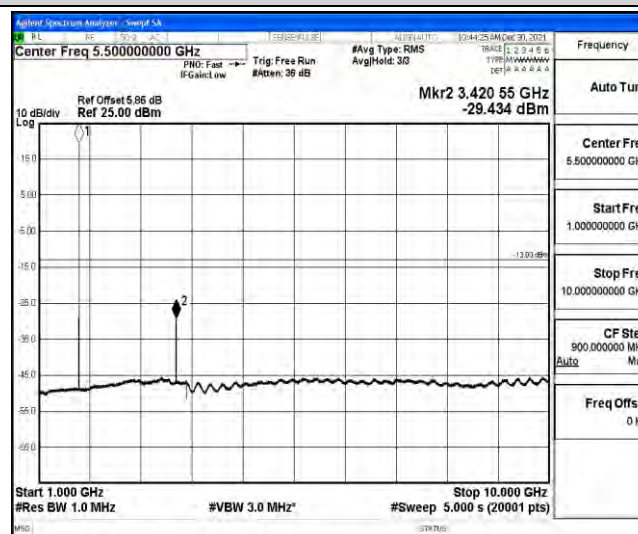
Band4-1.4MHz-QPSK-19957-Range2:0.15~30MHz



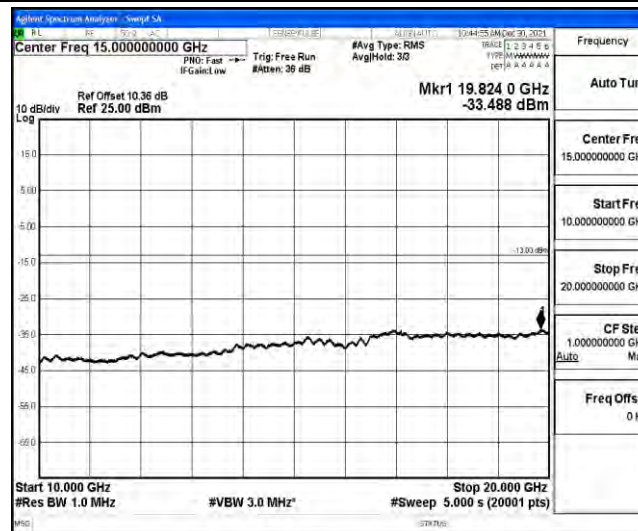
Band4-1.4MHz-QPSK-19957-Range3:30~1000MHz



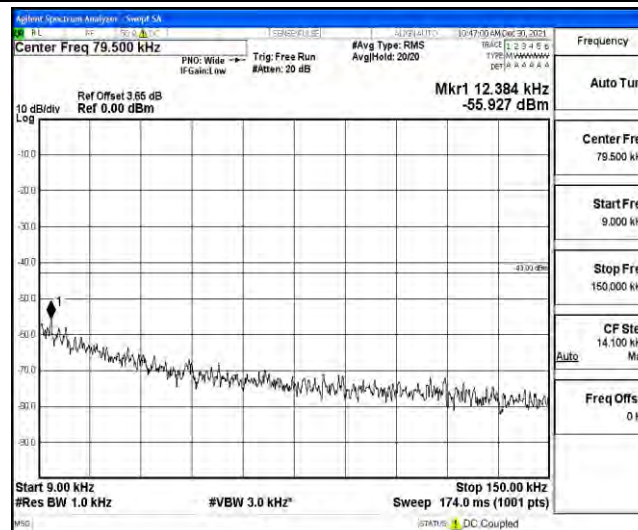
Band4-1.4MHz-QPSK-19957-Range4:1000~10000MHz



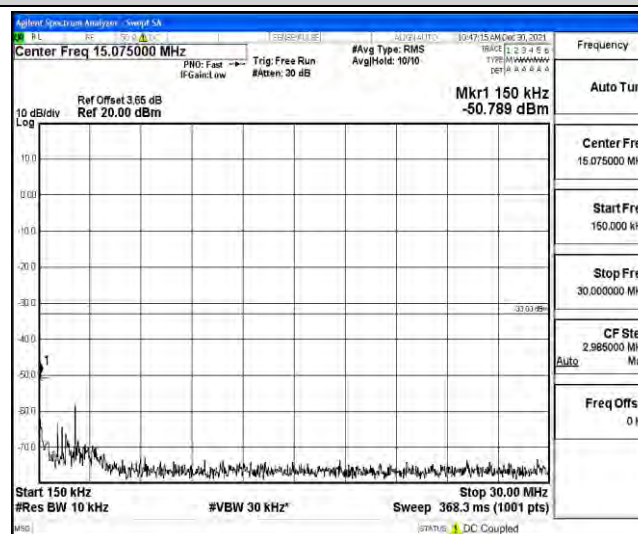
Band4-1.4MHz-QPSK-19957-Range5:10000~20000MHz



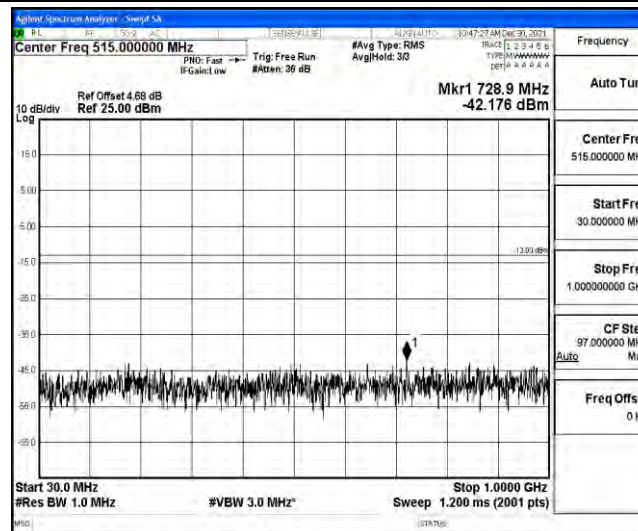
Band4-1.4MHz-QPSK-20175-Range1:0.009~0.15MHz



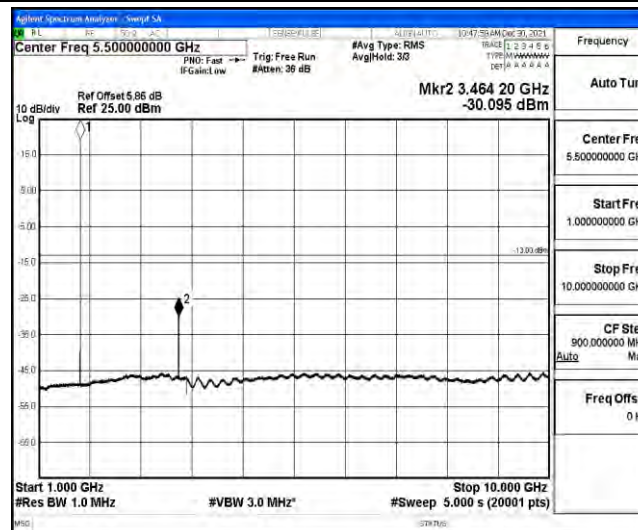
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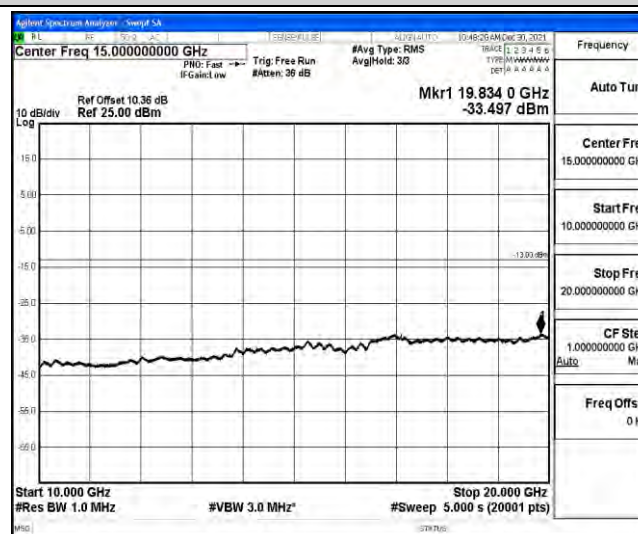
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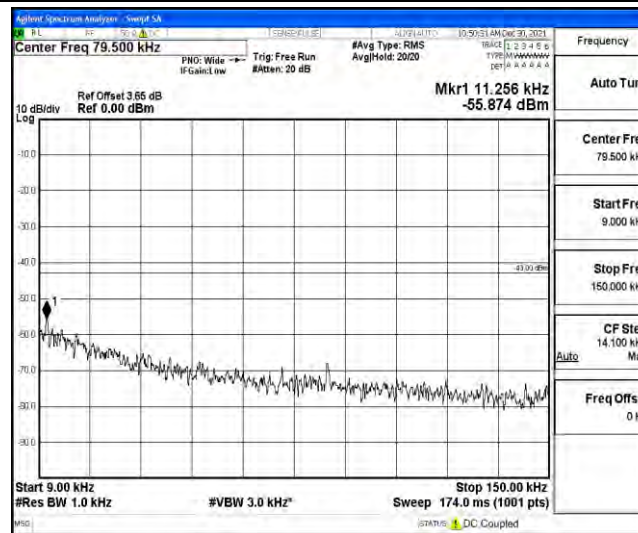
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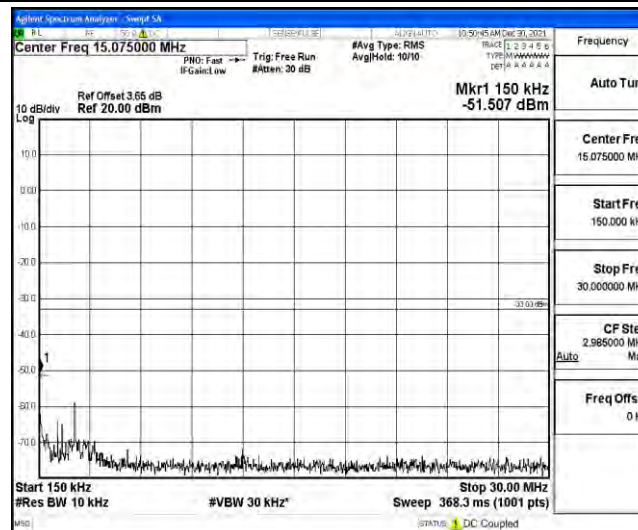
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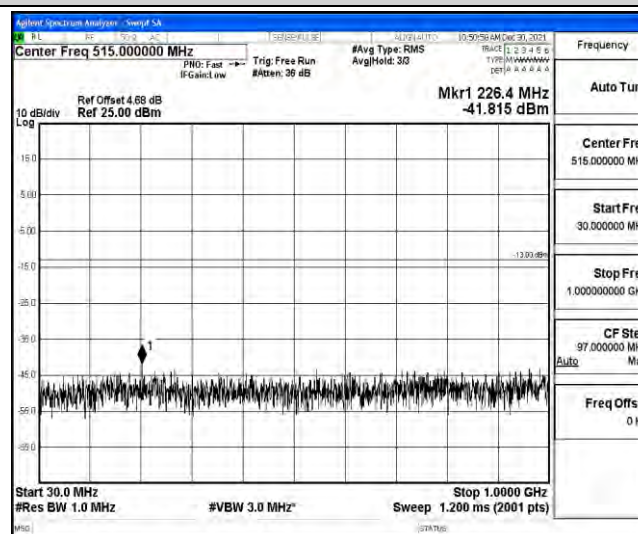
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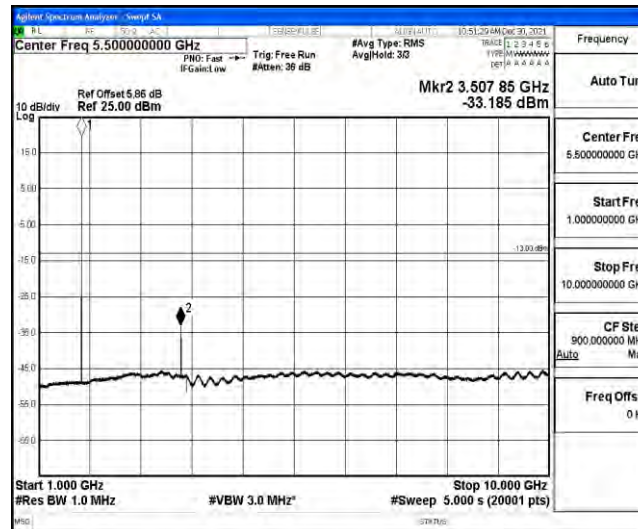
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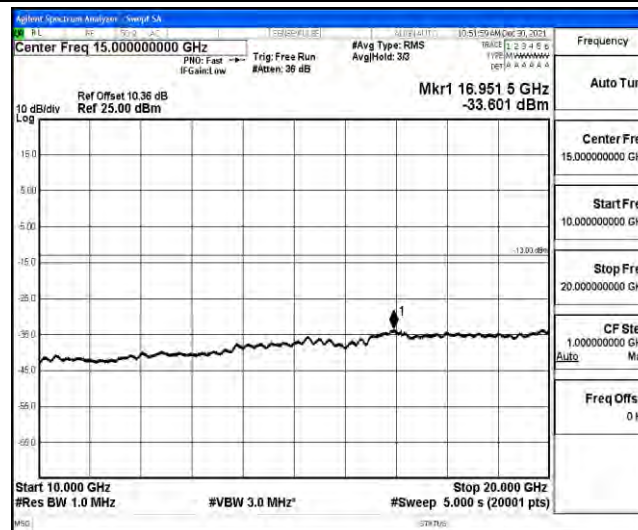
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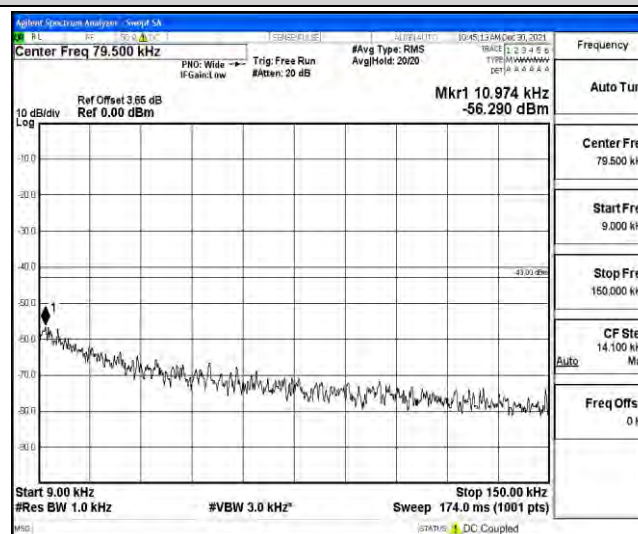
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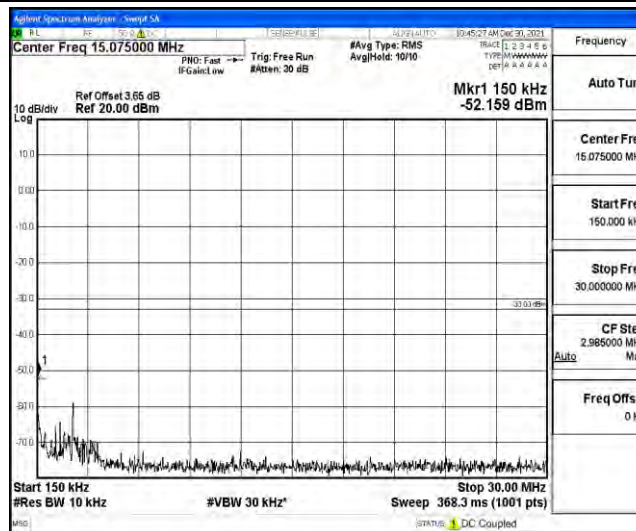
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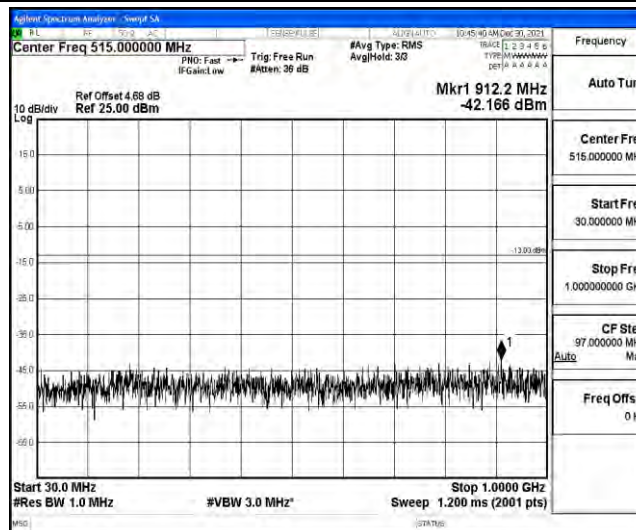
Band4-1.4MHz-16QAM-19957-Range1:0.009~0.15MHz



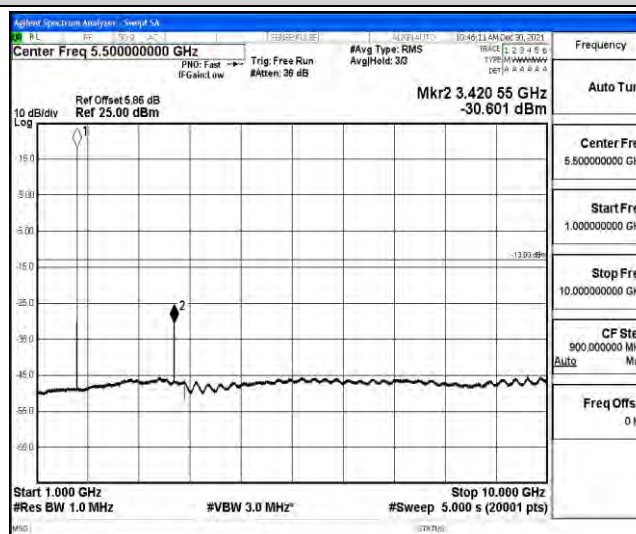
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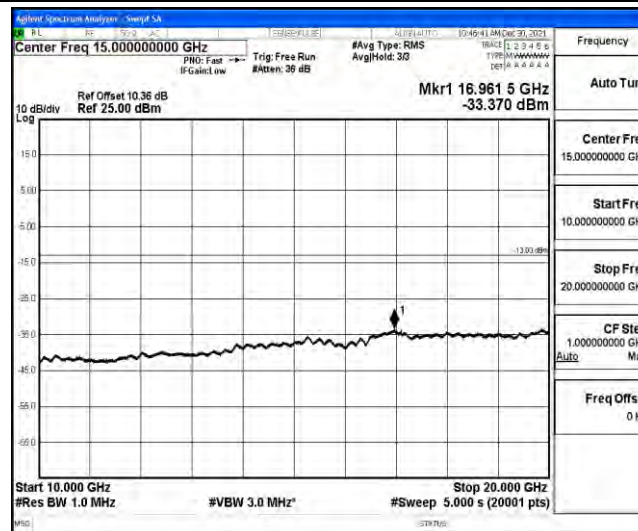
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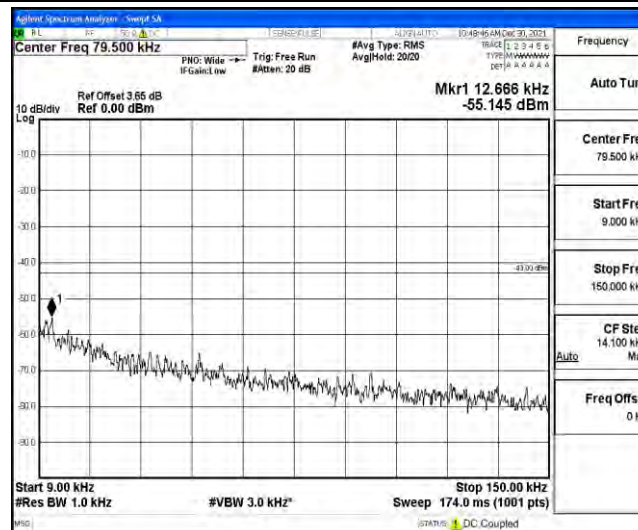
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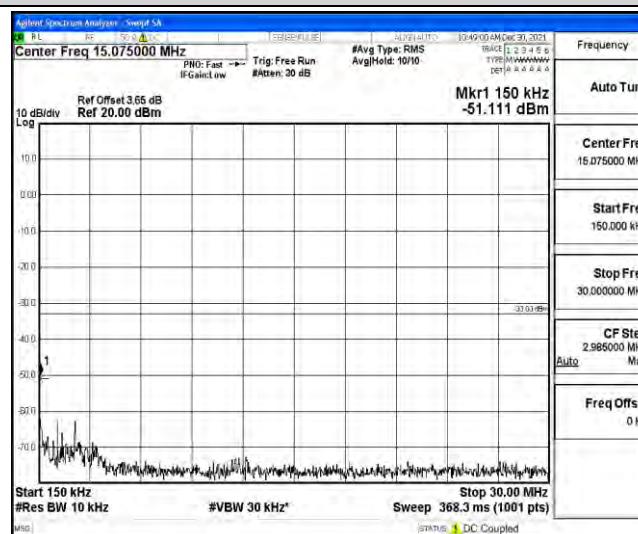
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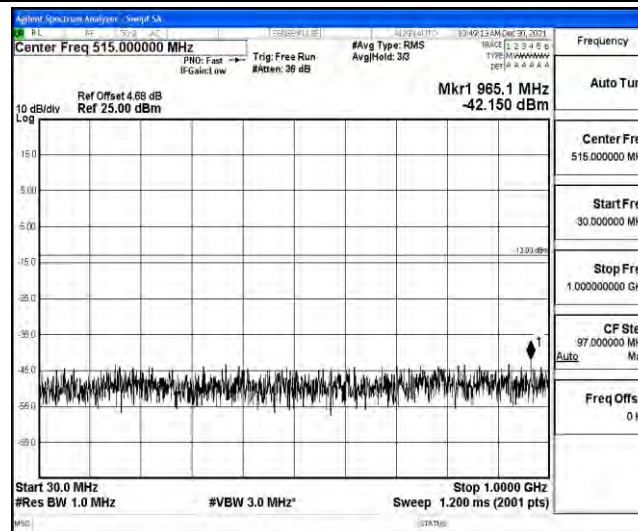
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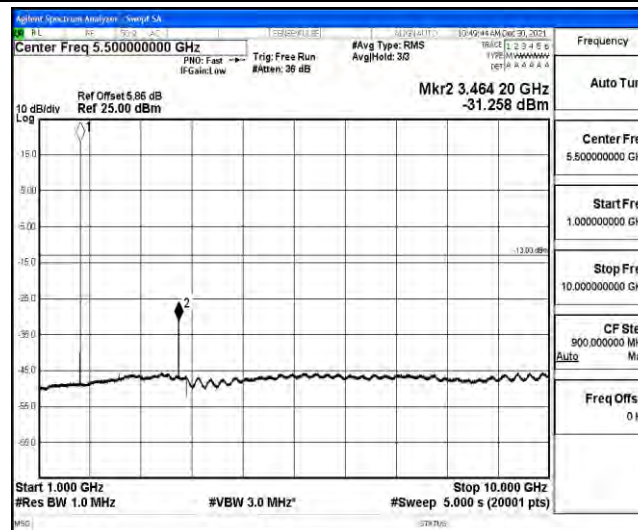
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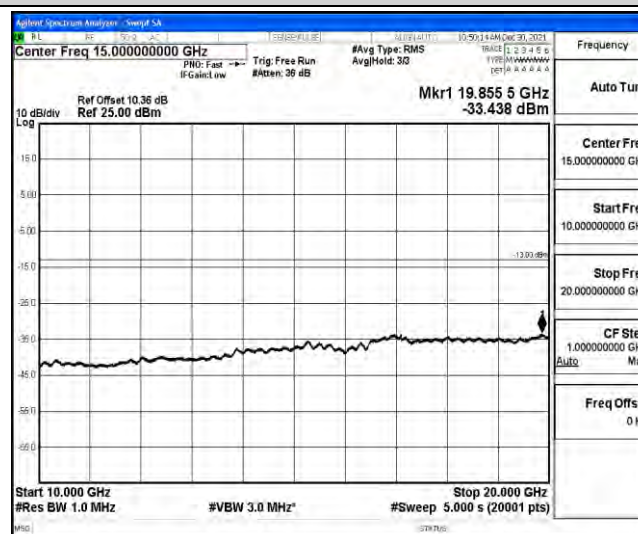
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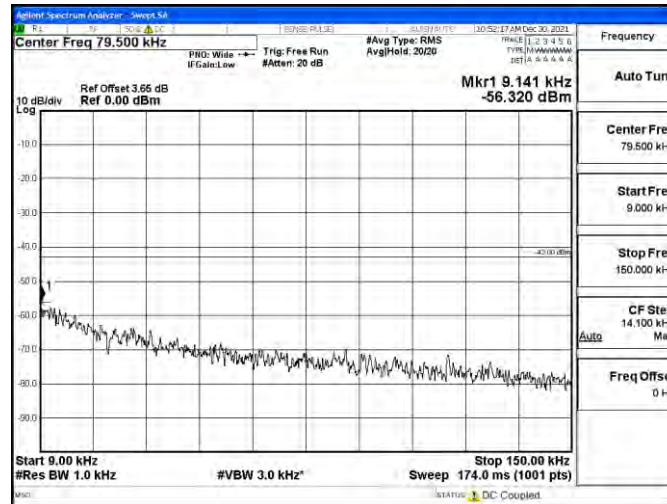
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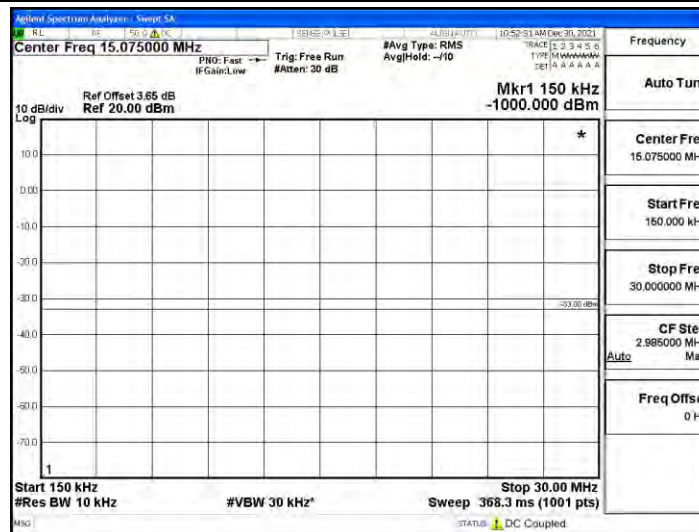
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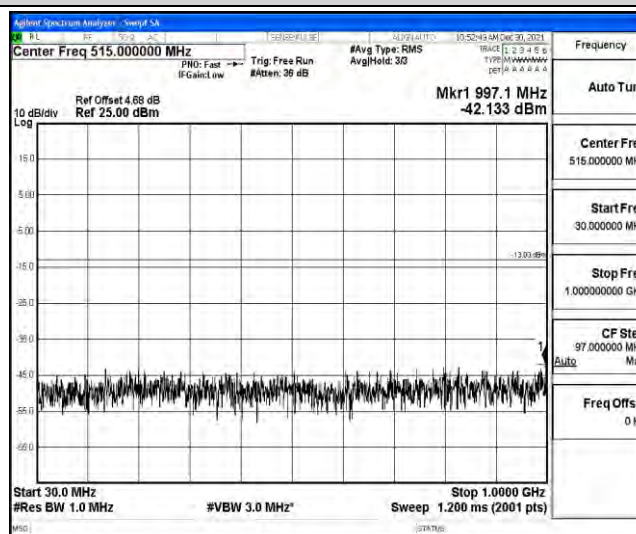
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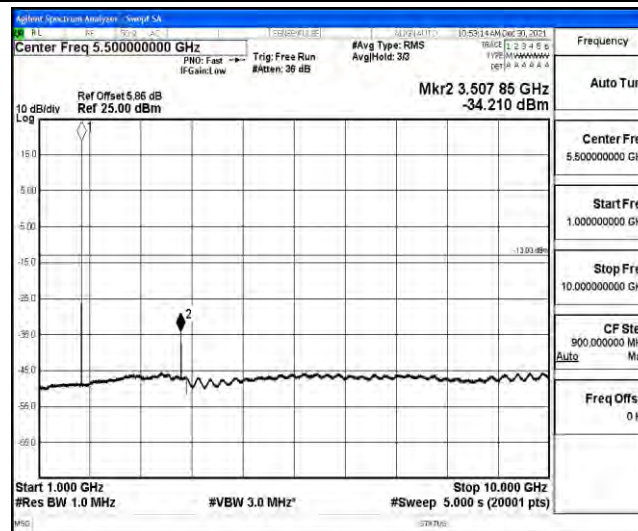
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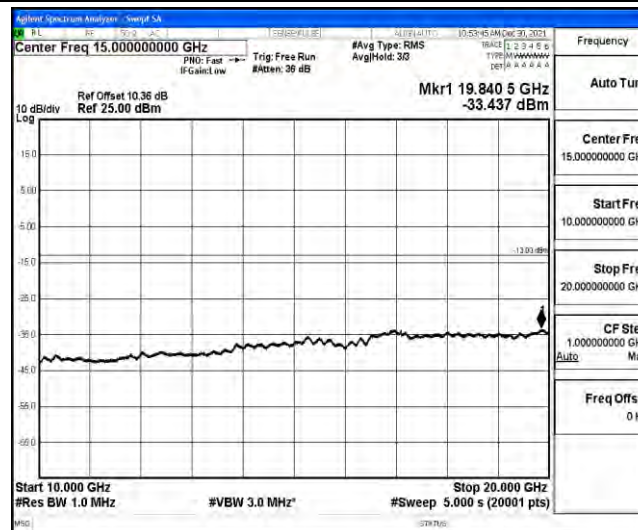
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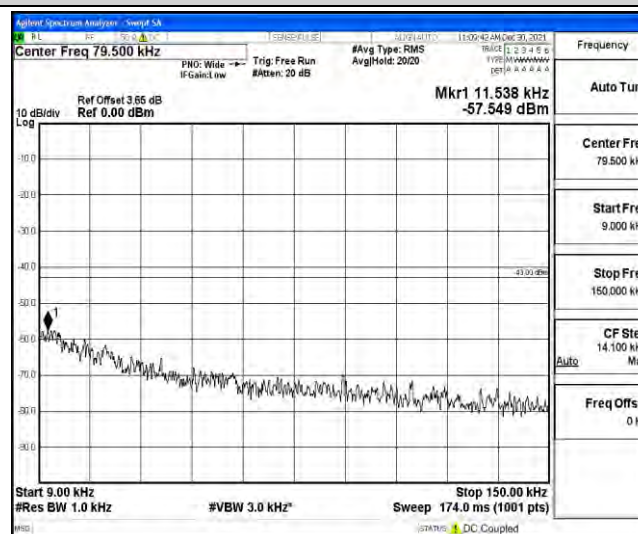
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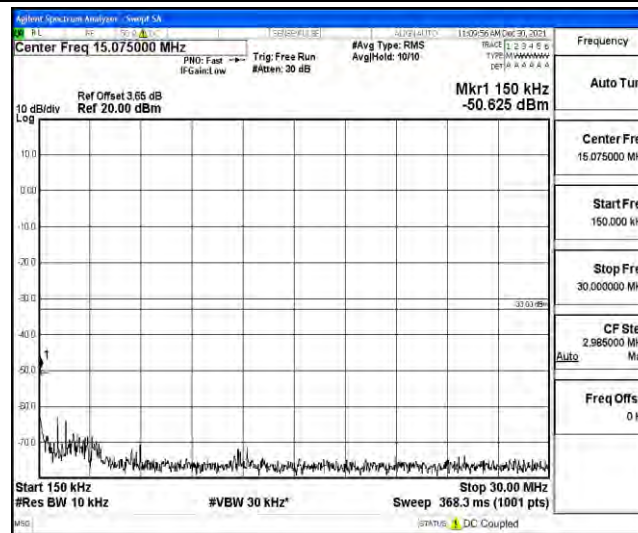
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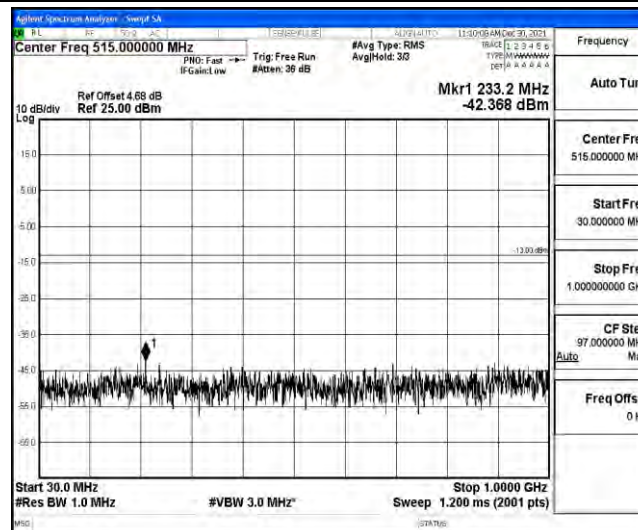
Band4-3MHz-QPSK-19965-Range1:0.009~0.15MHz



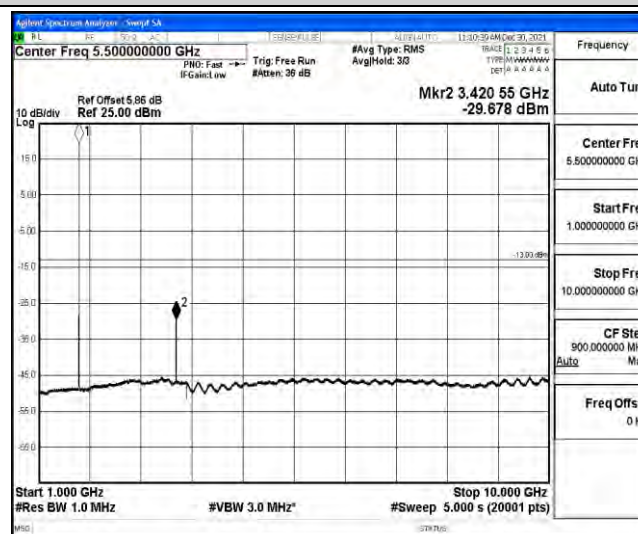
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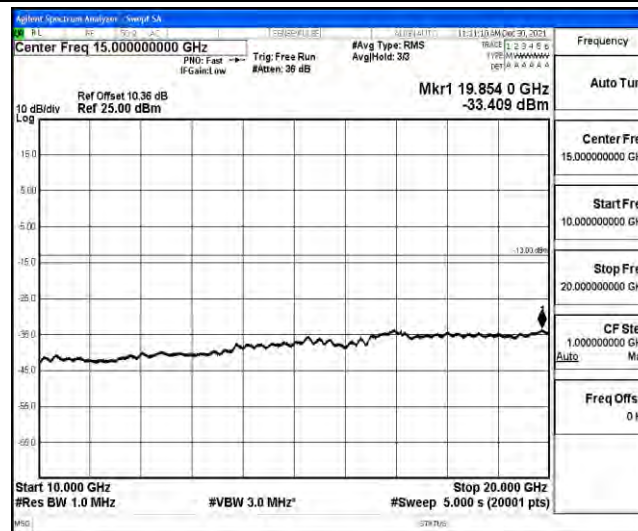
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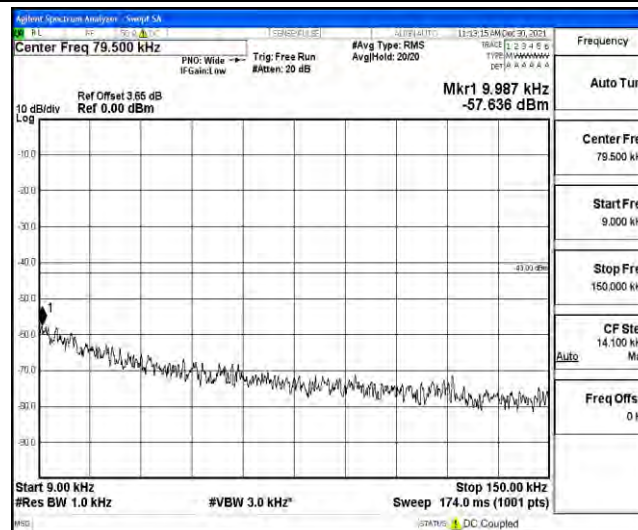
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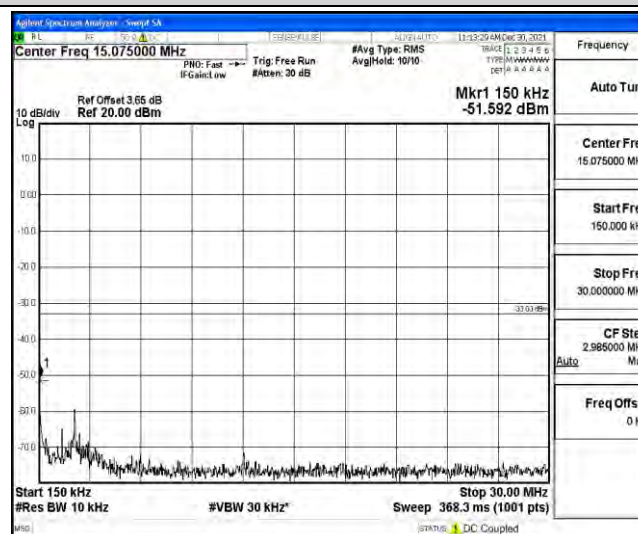
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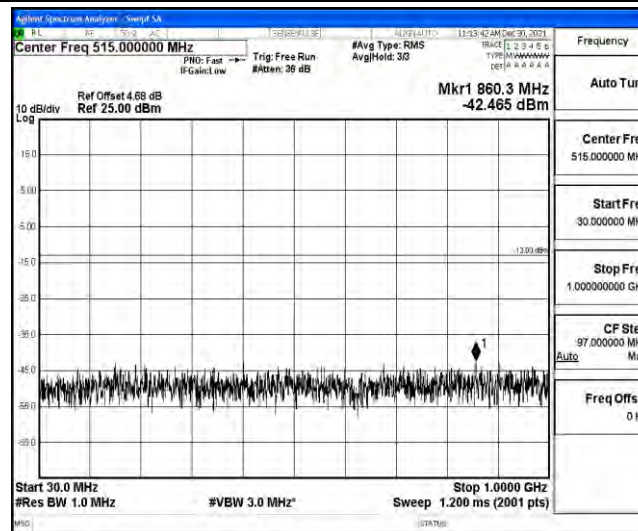
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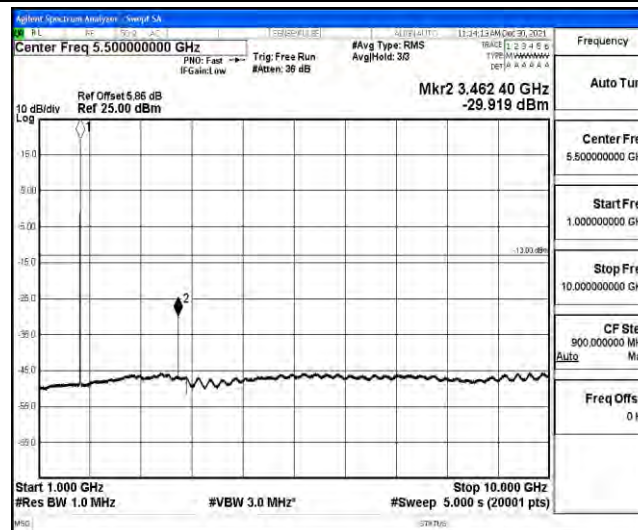
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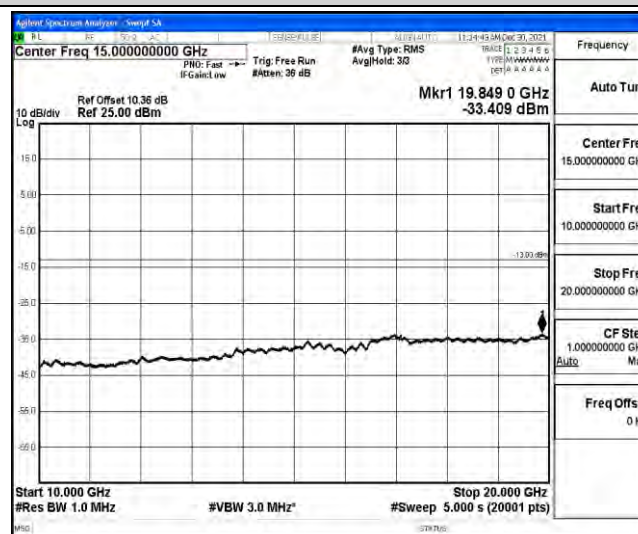
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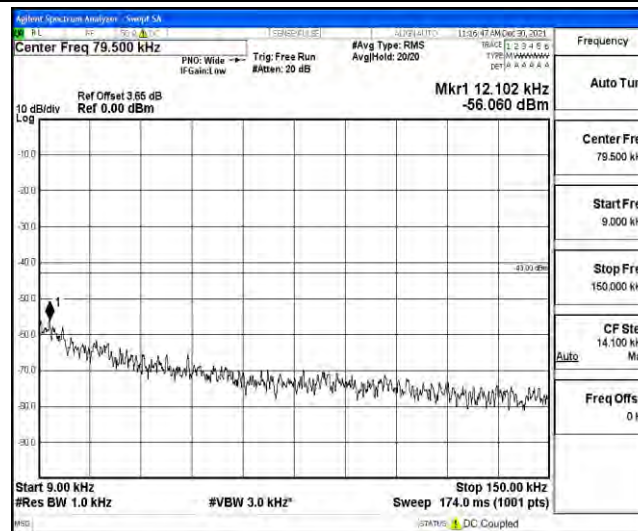
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Band4-3MHz-QPSK-20175-Range5:10000~20000MHz



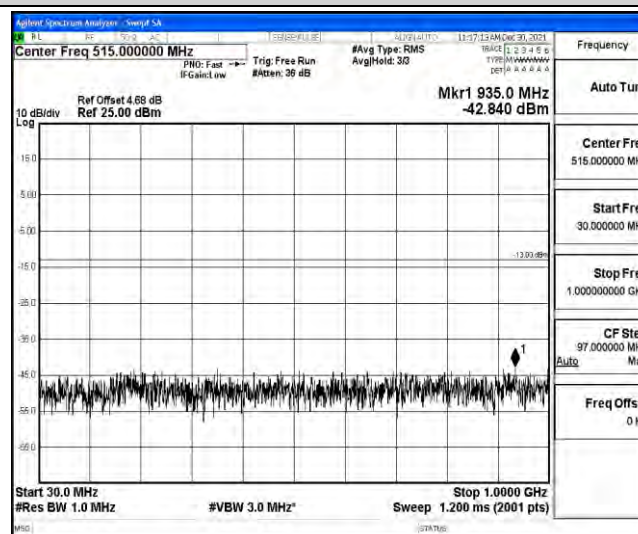
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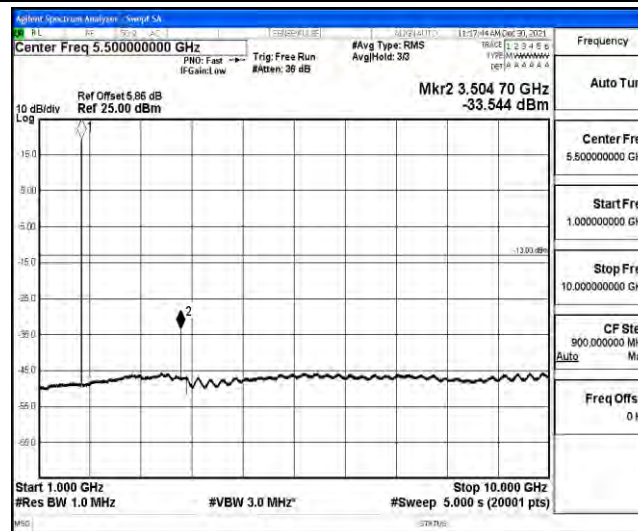
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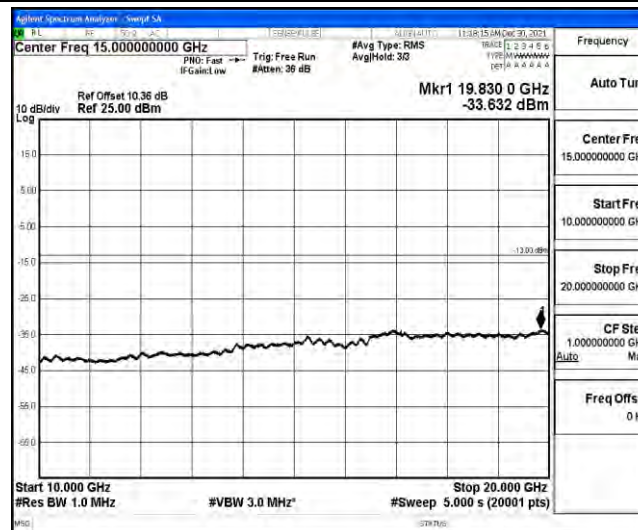
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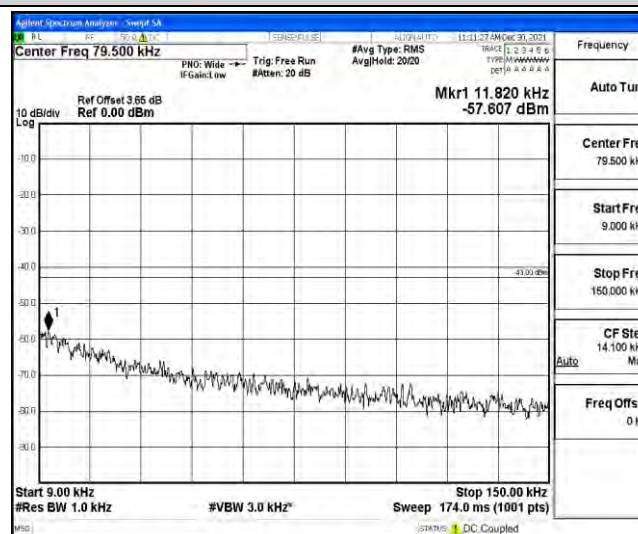
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Band4-3MHz-QPSK-20385-Range5:10000~20000MHz



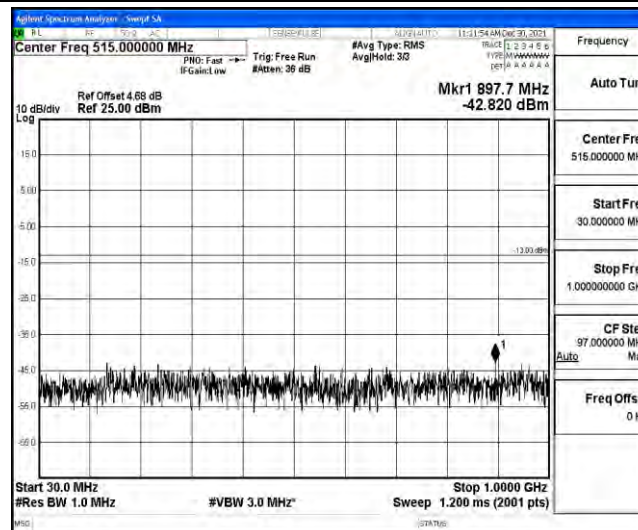
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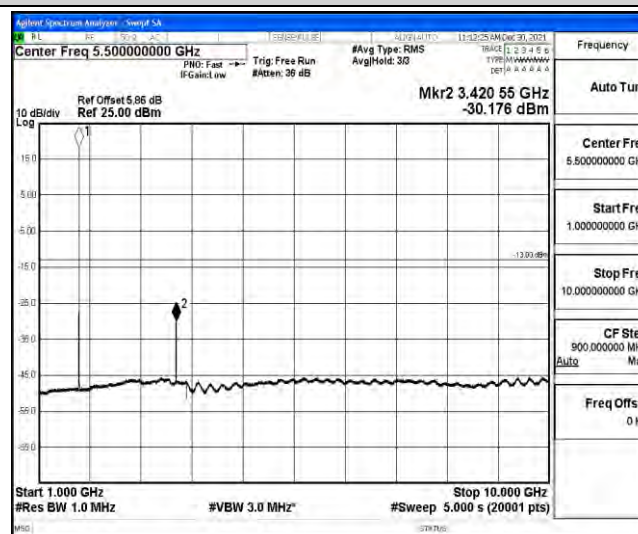
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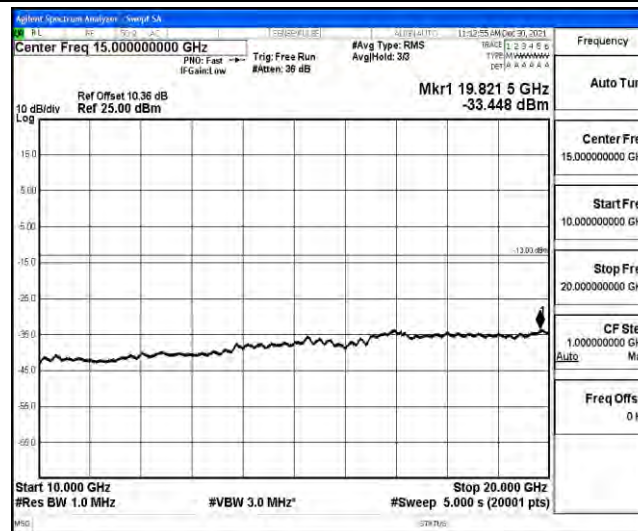
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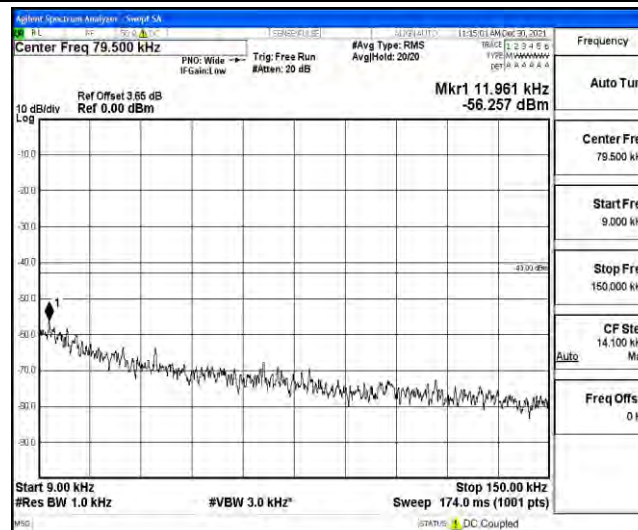
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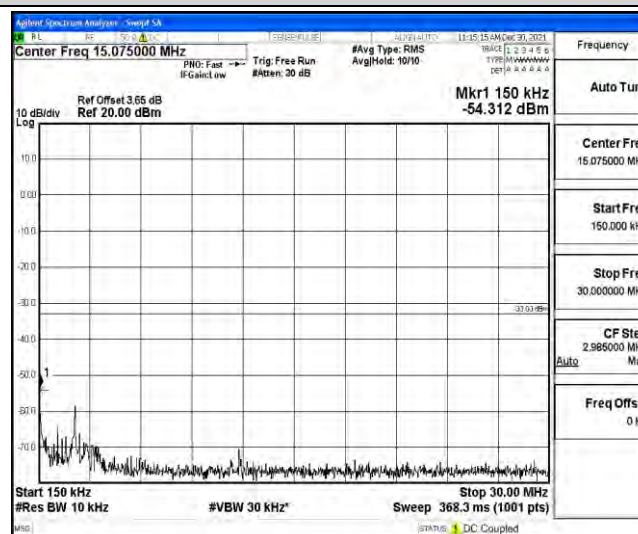
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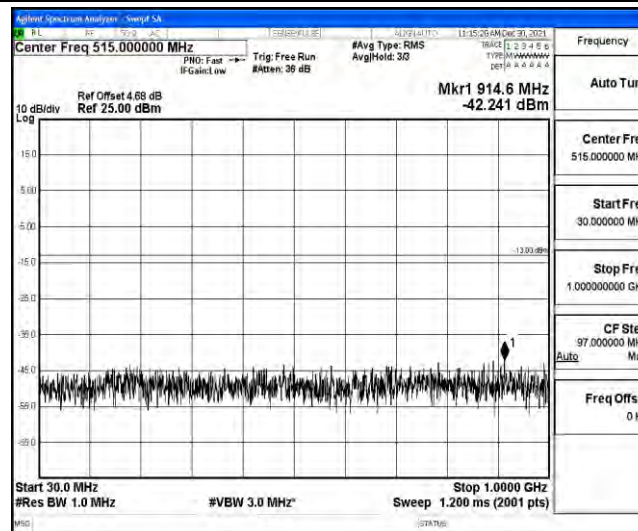
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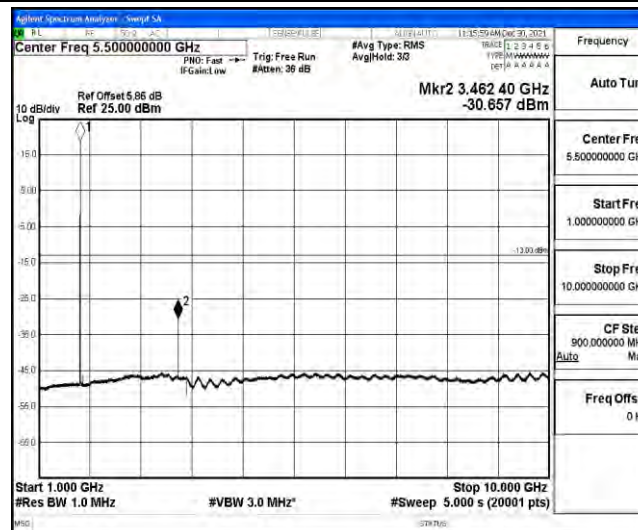
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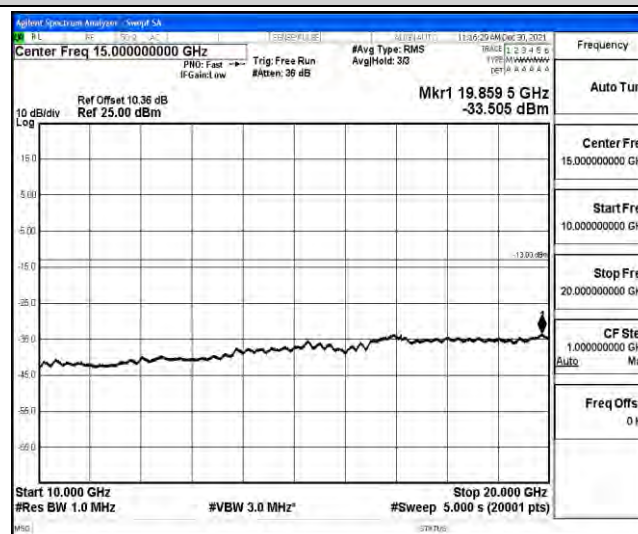
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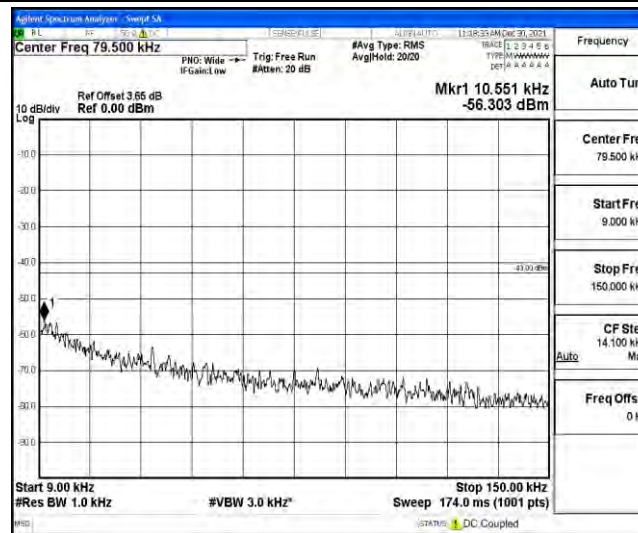
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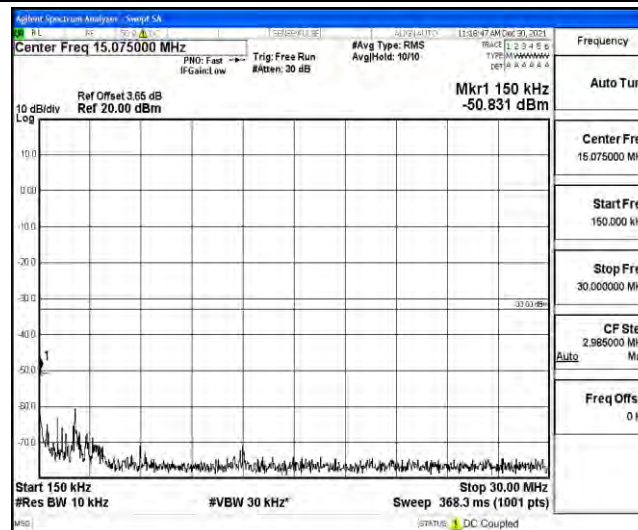
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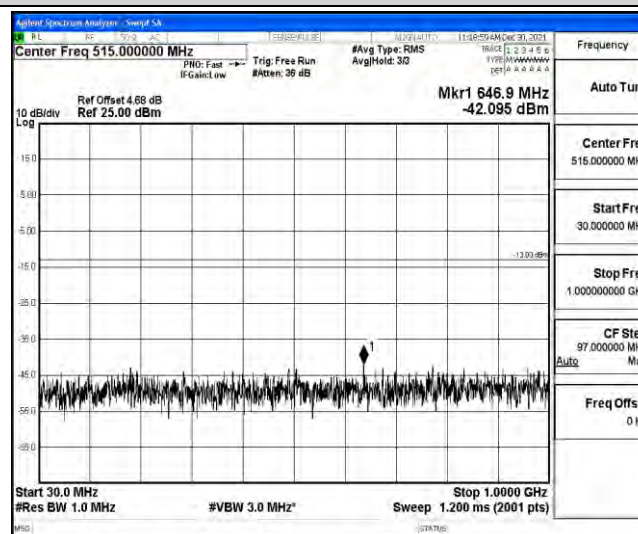
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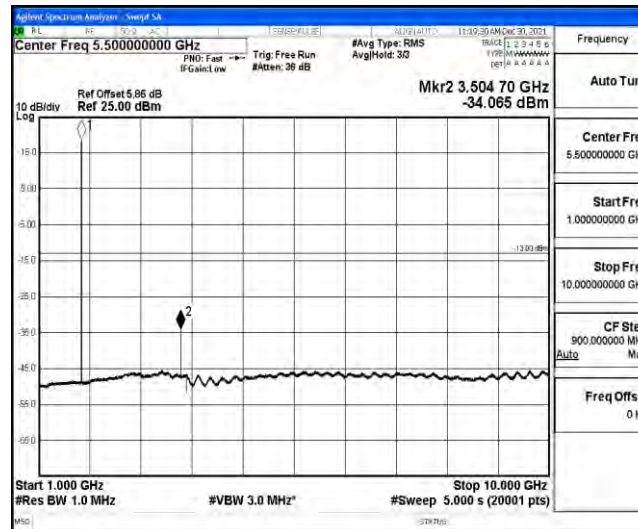
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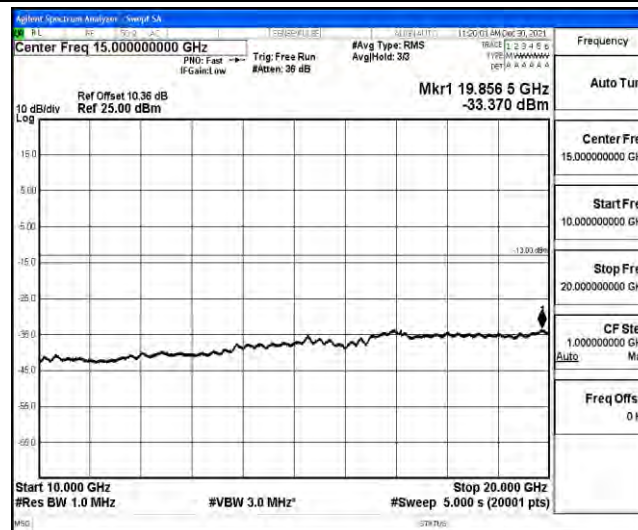
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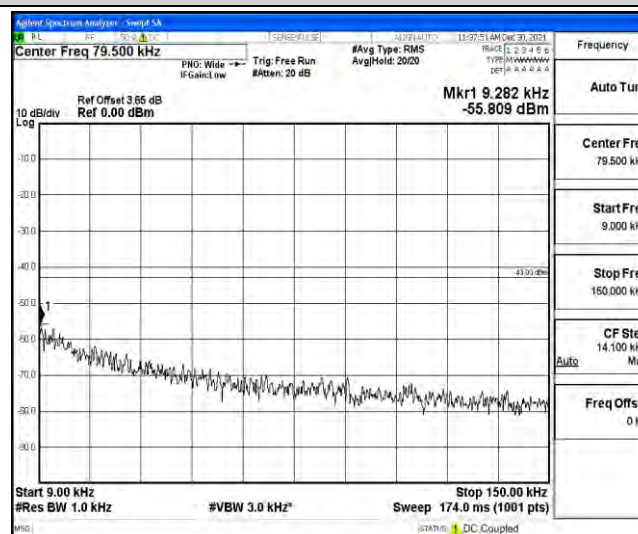
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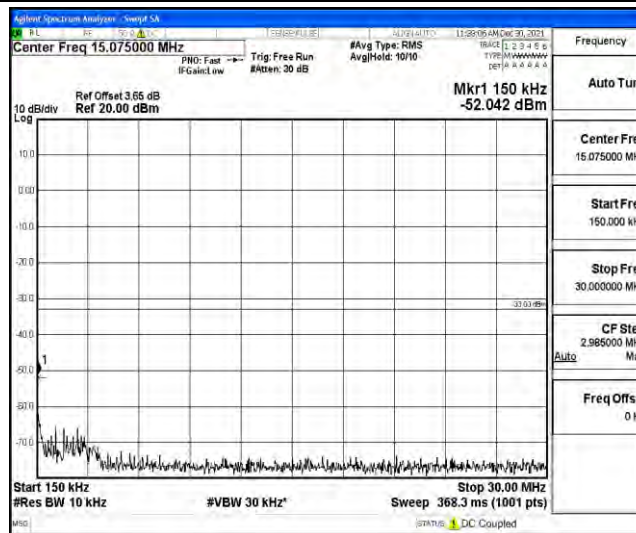
Band4-3MHz-16QAM-20385-Range5:10000~20000MHz



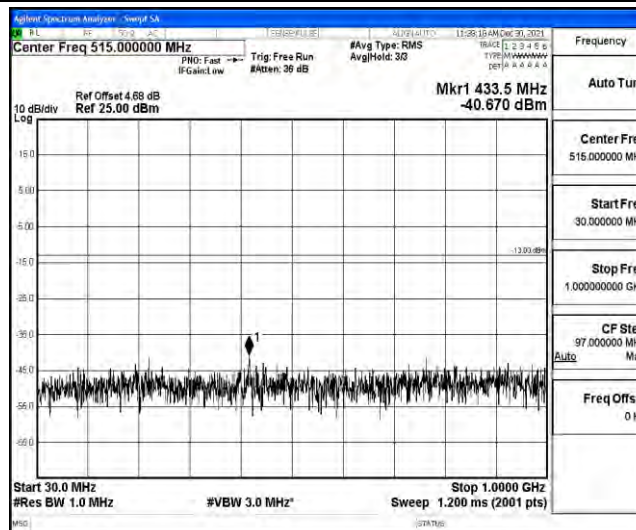
Band4-5MHz-QPSK-19975-Range1:0.009~0.15MHz



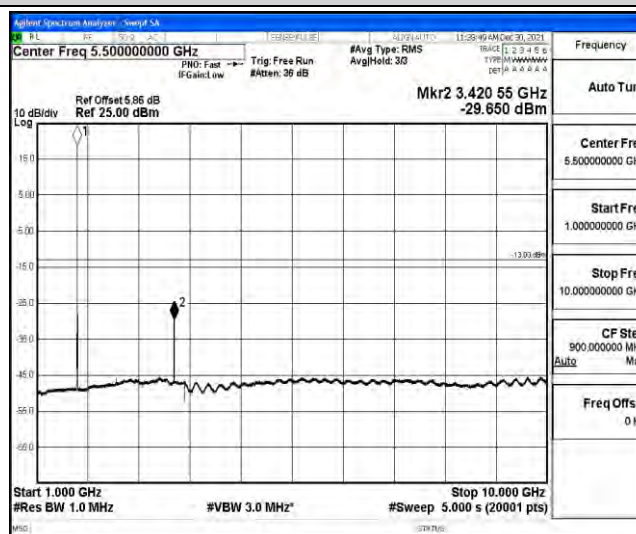
Band4-5MHz-QPSK-19975-Range2:0.15~30MHz



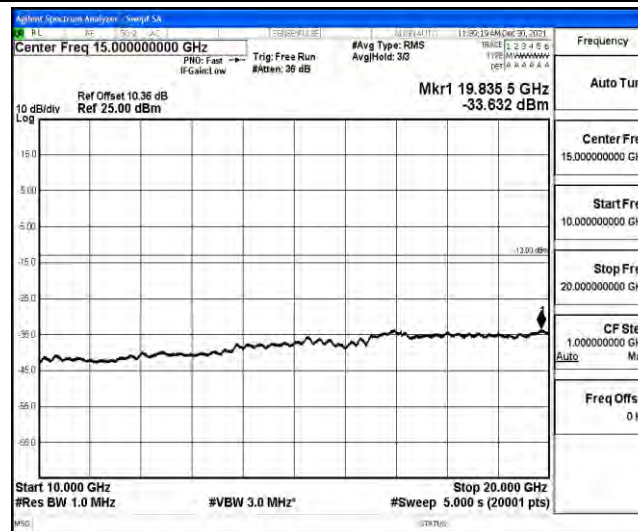
Band4-5MHz-QPSK-19975-Range3:30~1000MHz



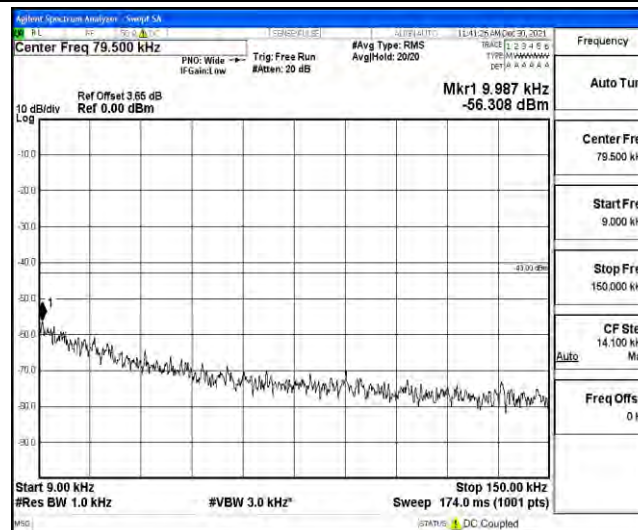
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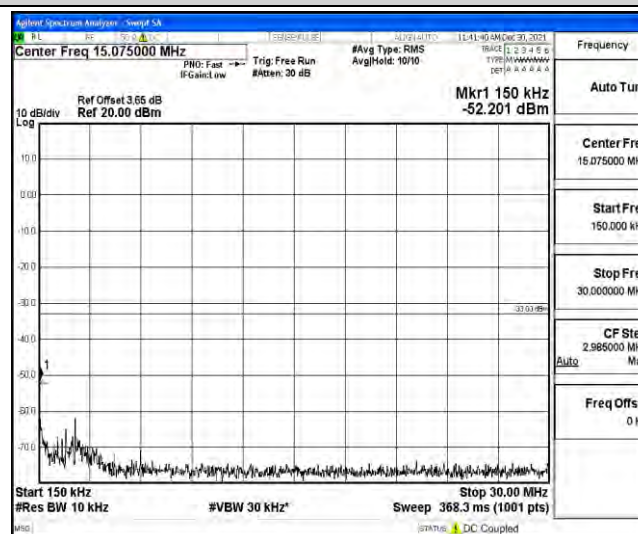
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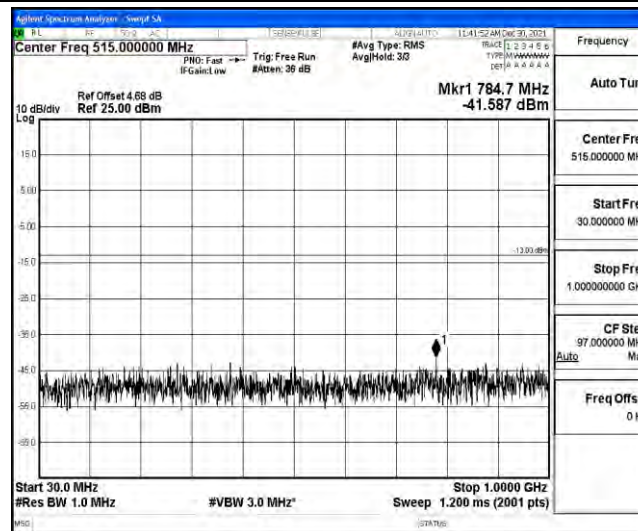
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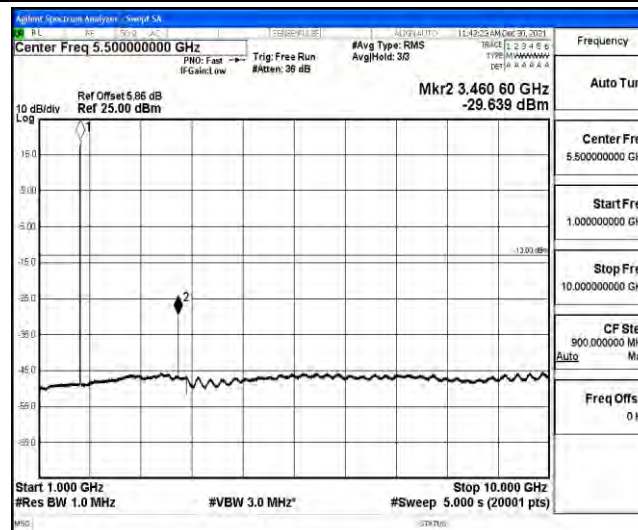
Band4-5MHz-QPSK-20175-Range2:0.15~30MHz



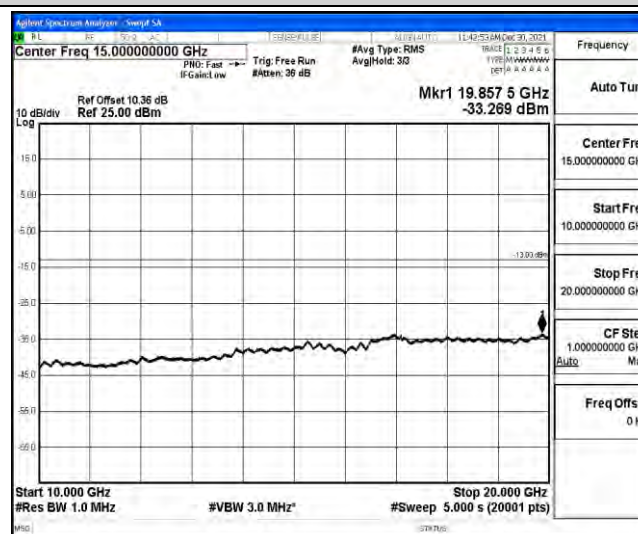
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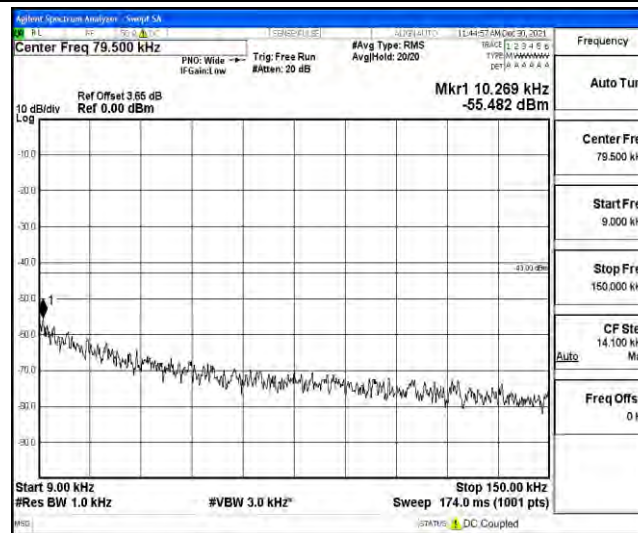
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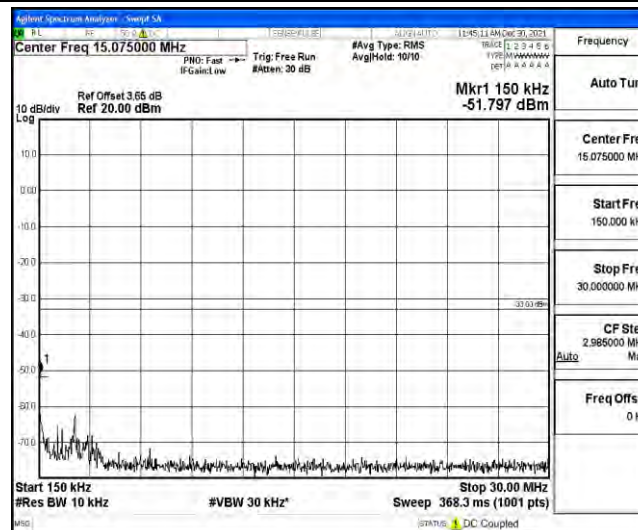
Band4-5MHz-QPSK-20175-Range5:10000~20000MHz



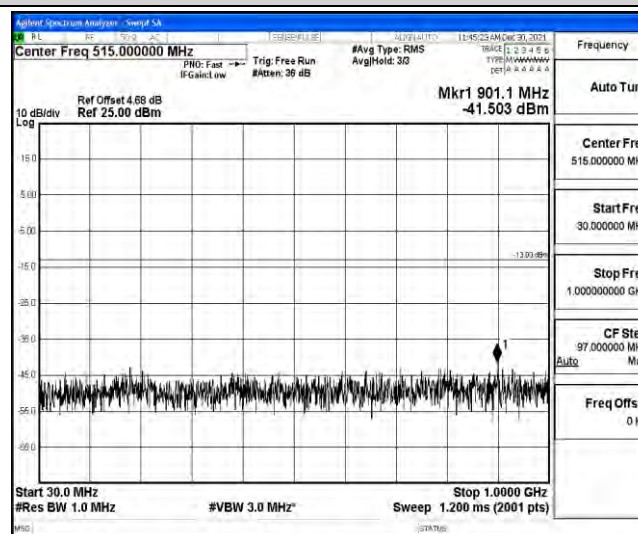
Band4-5MHz-QPSK-20375-Range1:0.009~0.15MHz



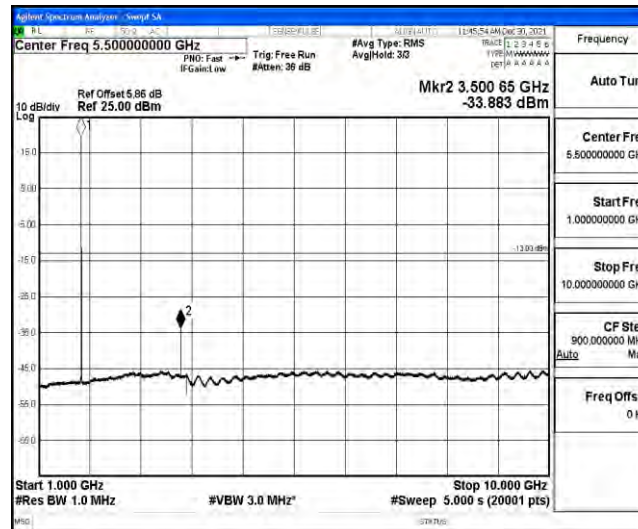
Band4-5MHz-QPSK-20375-Range2:0.15~30MHz



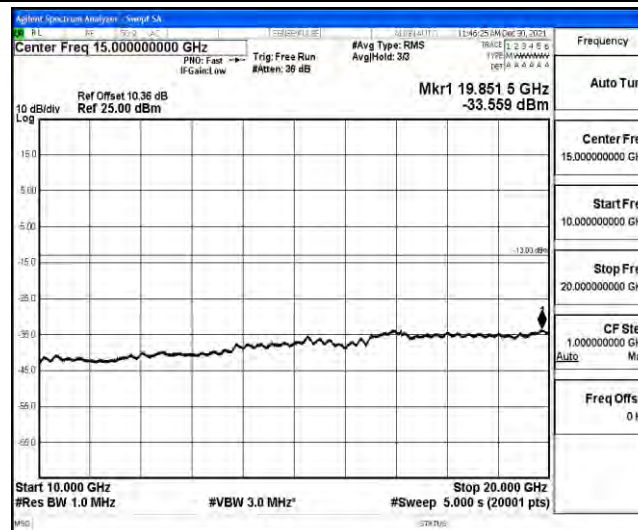
Band4-5MHz-QPSK-20375-Range3:30~1000MHz



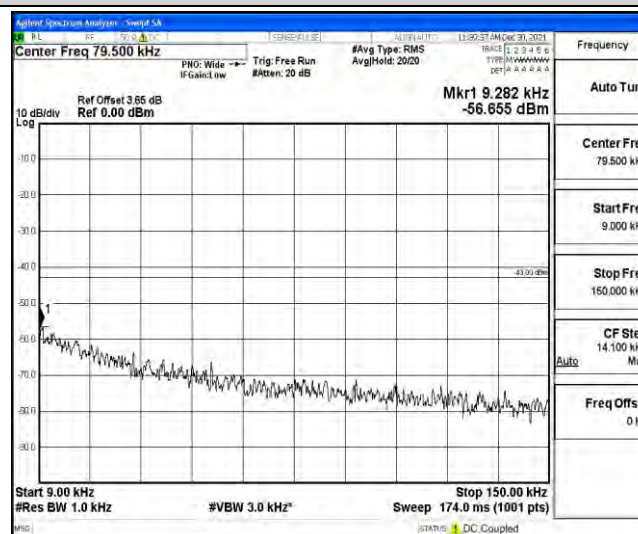
Band4-5MHz-QPSK-20375-Range4:1000~10000MHz



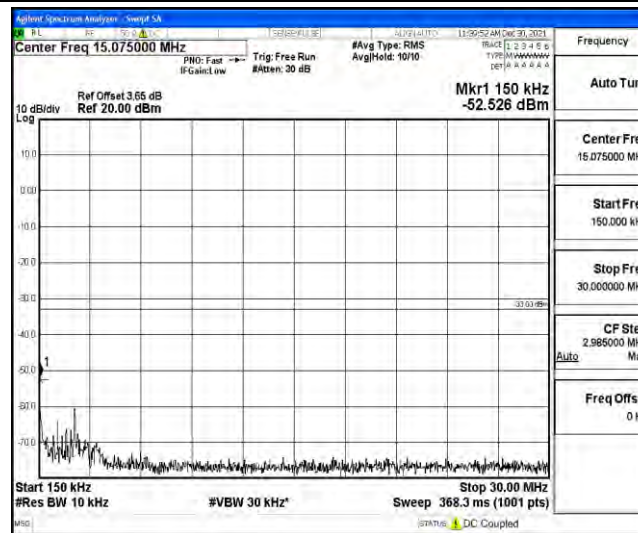
Band4-5MHz-QPSK-20375-Range5:10000~20000MHz



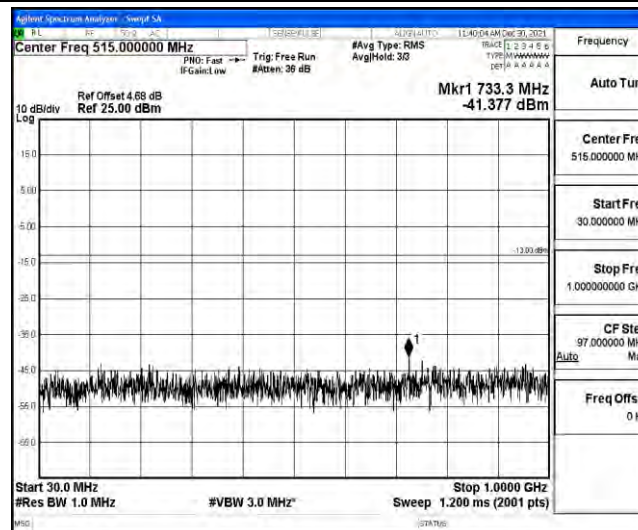
Band4-5MHz-16QAM-19975-Range1:0.009~0.15MHz



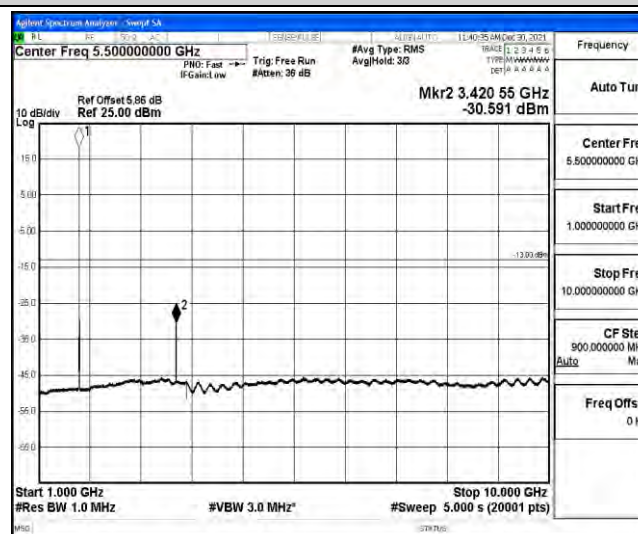
Band4-5MHz-16QAM-19975-Range2:0.15~30MHz



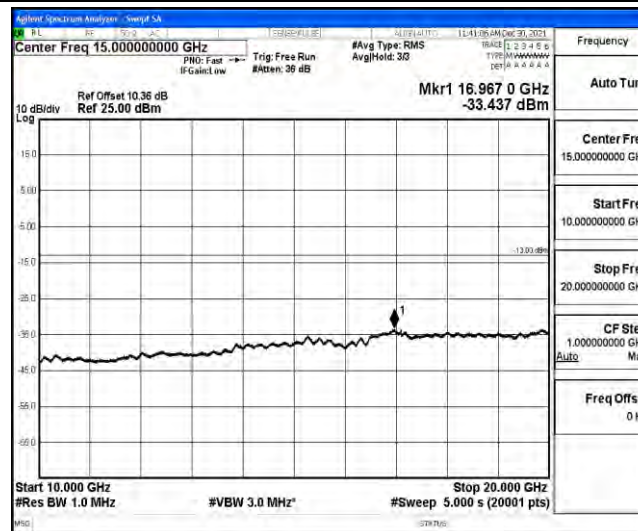
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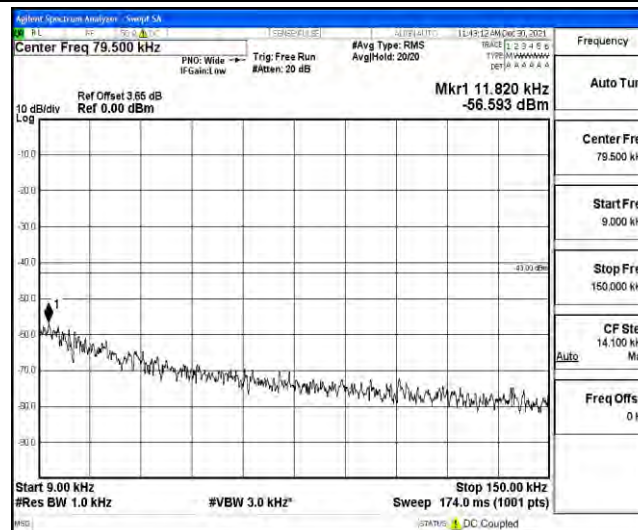
Band4-5MHz-16QAM-19975-Range4:1000~10000MHz



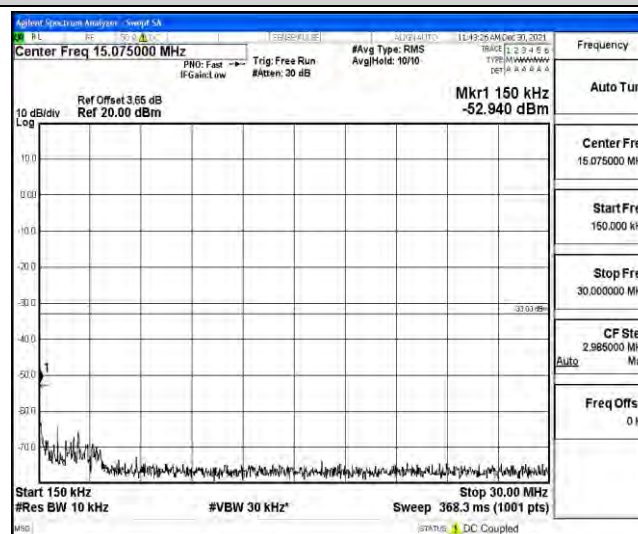
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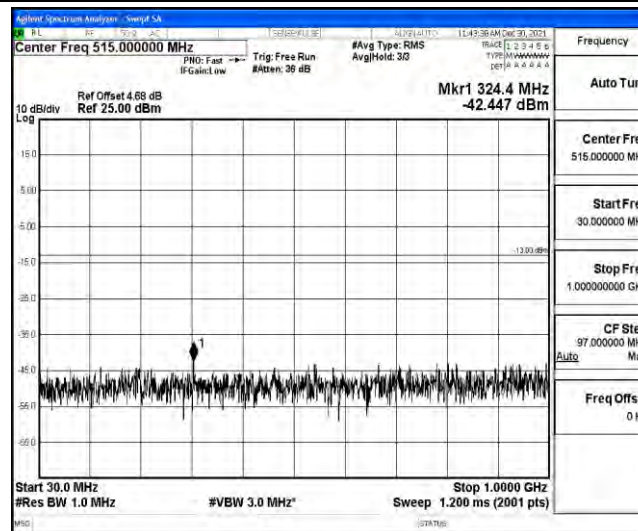
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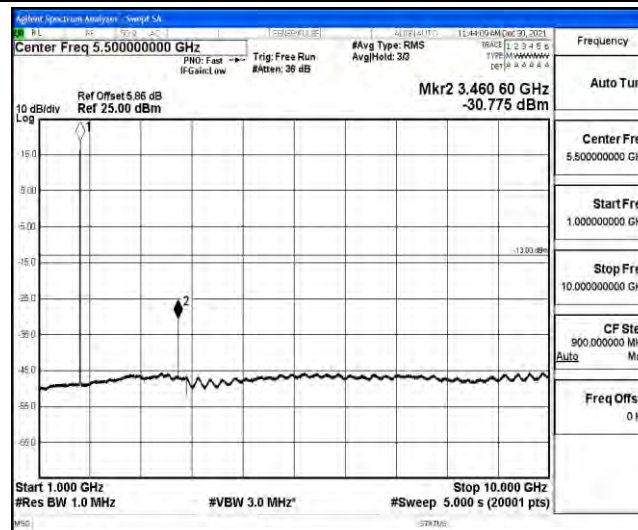
Band4-5MHz-16QAM-20175-Range2:0.15~30MHz



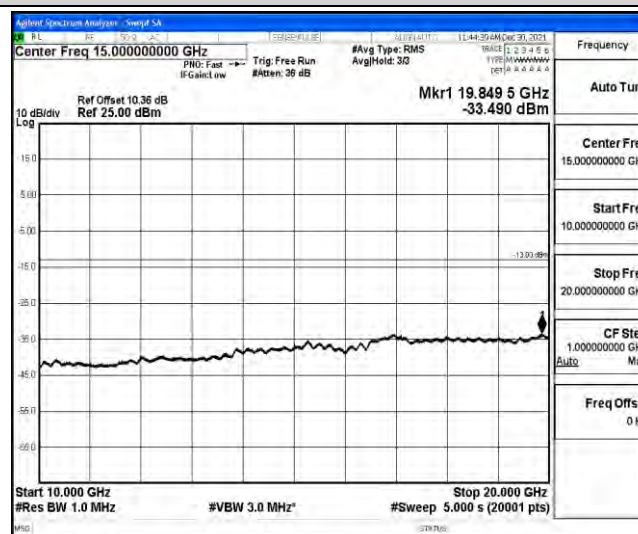
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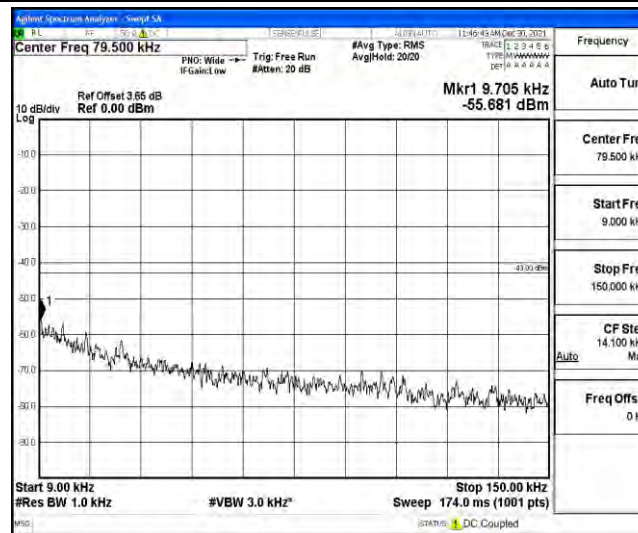
Band4-5MHz-16QAM-20175-Range4:1000~10000MHz



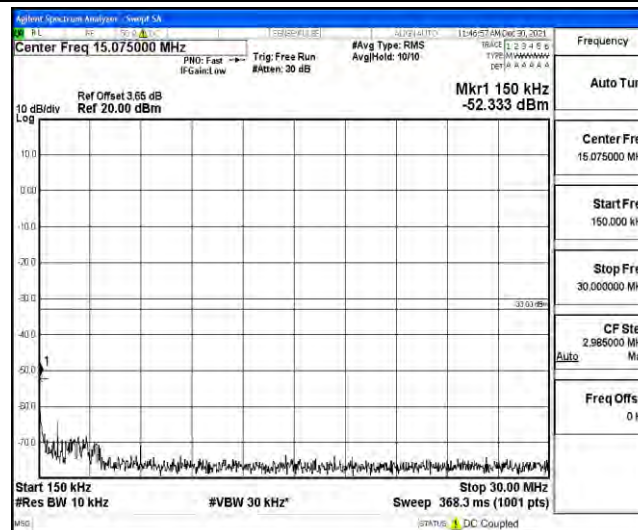
Band4-5MHz-16QAM-20175-Range5:10000~20000MHz



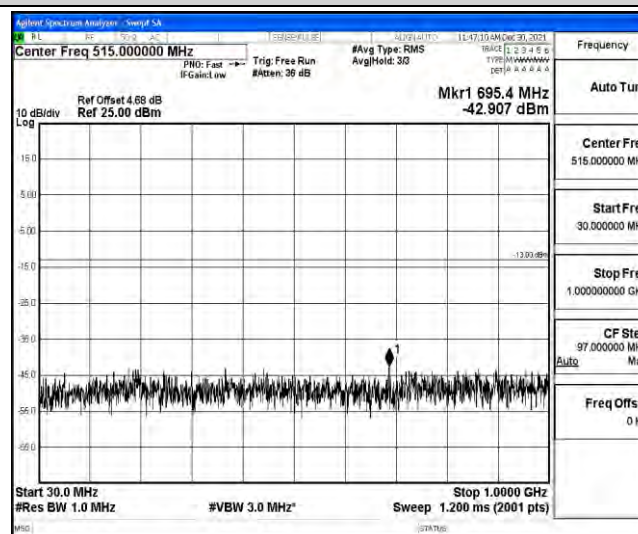
Band4-5MHz-16QAM-20375-Range1:0.009~0.15MHz



Band4-5MHz-16QAM-20375-Range2:0.15~30MHz



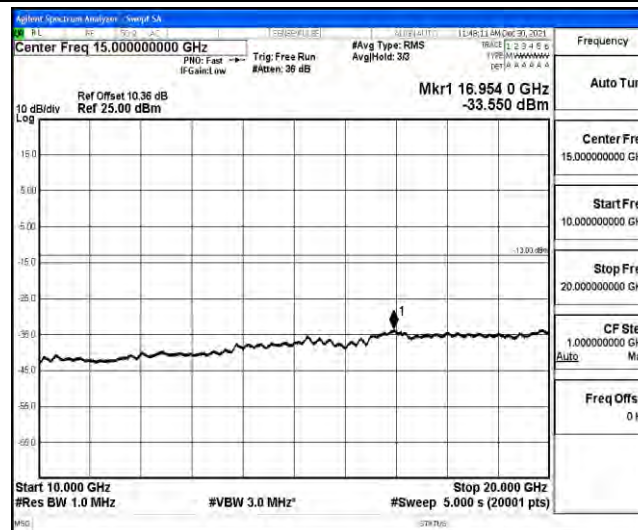
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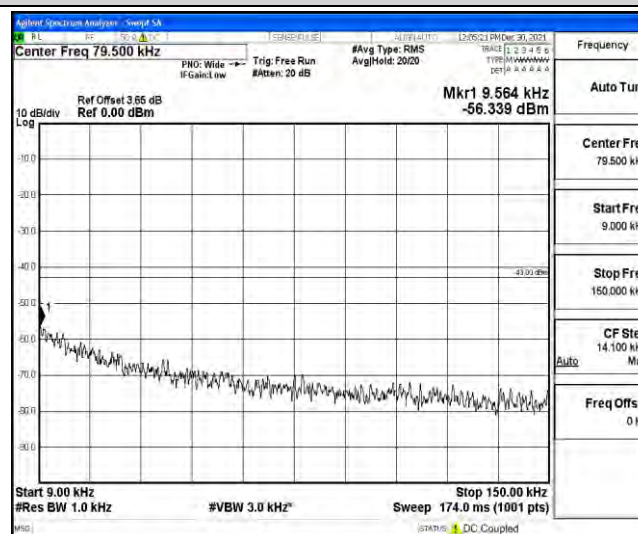
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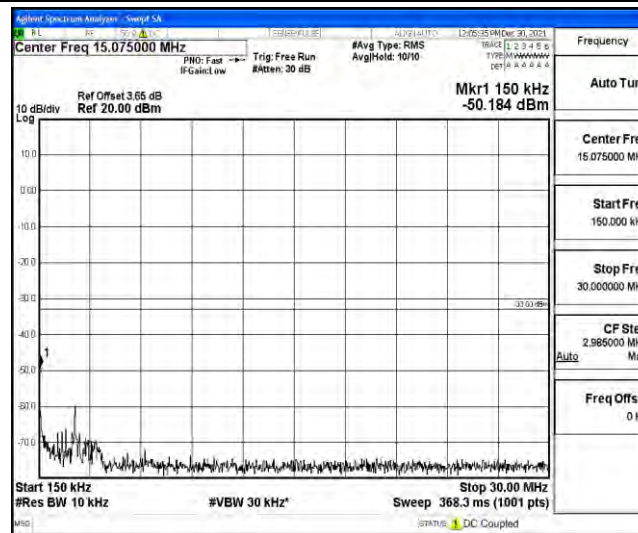
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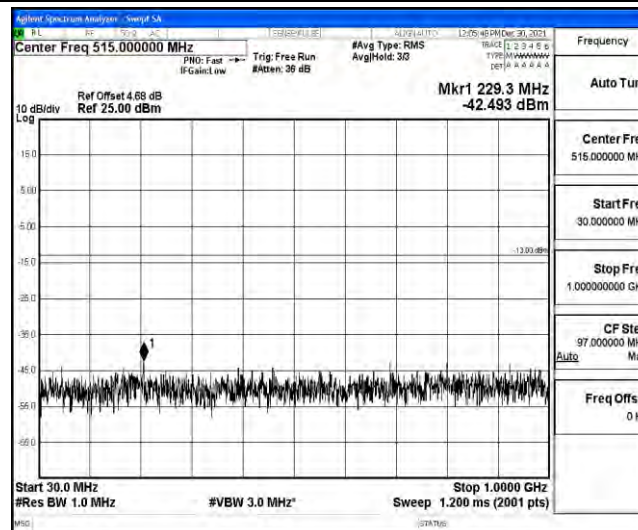
Band4-10MHz-QPSK-20000-Range1:0.009~0.15MHz



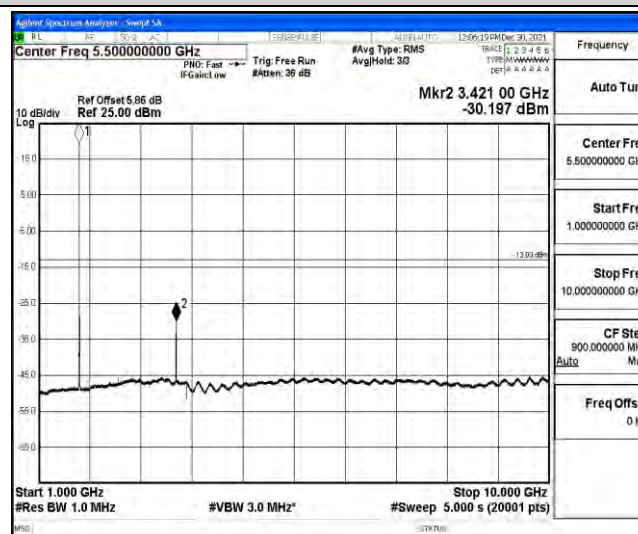
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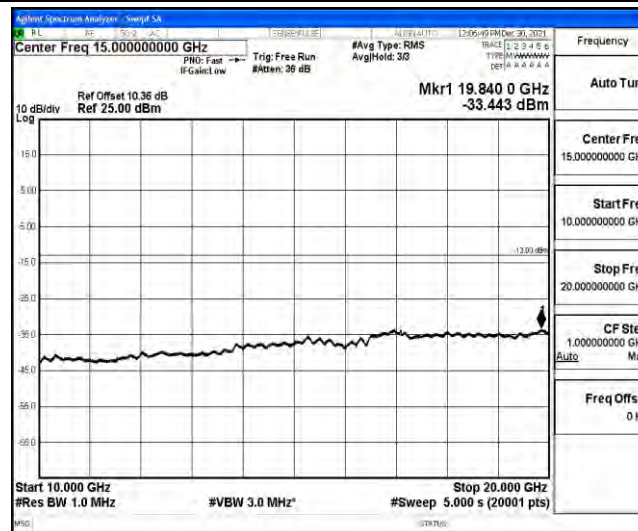
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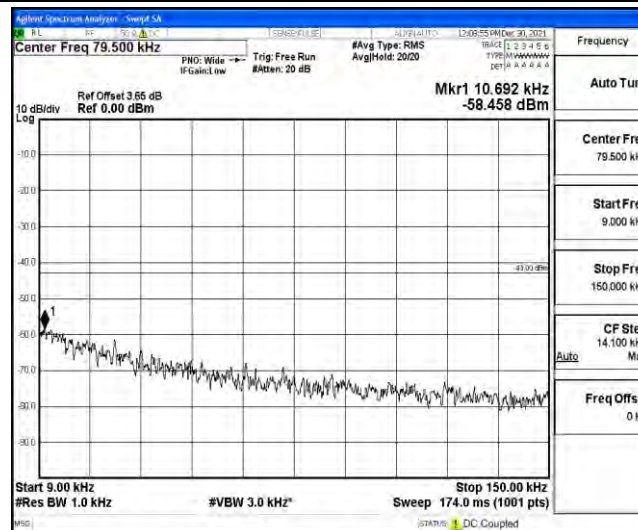
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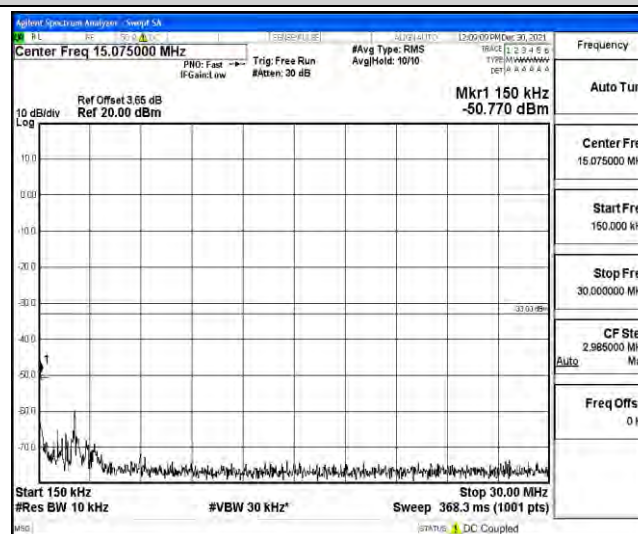
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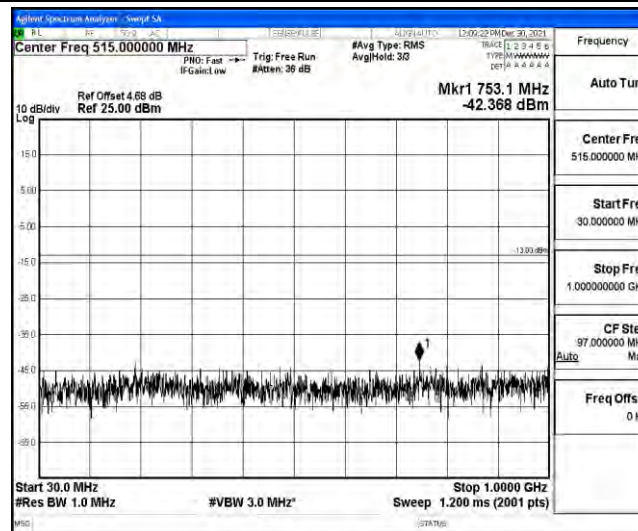
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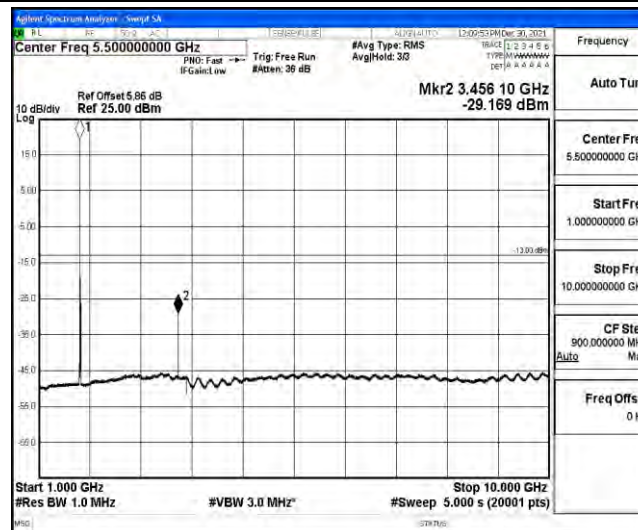
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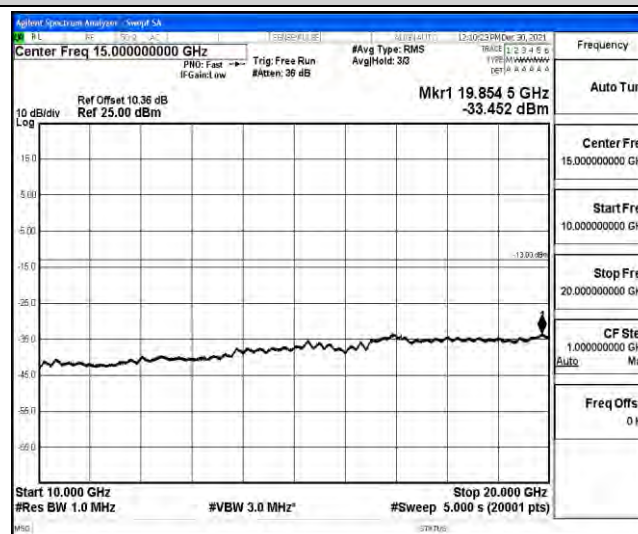
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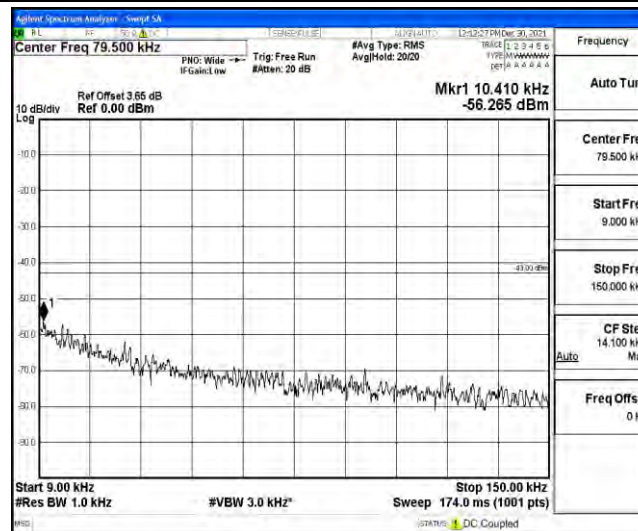
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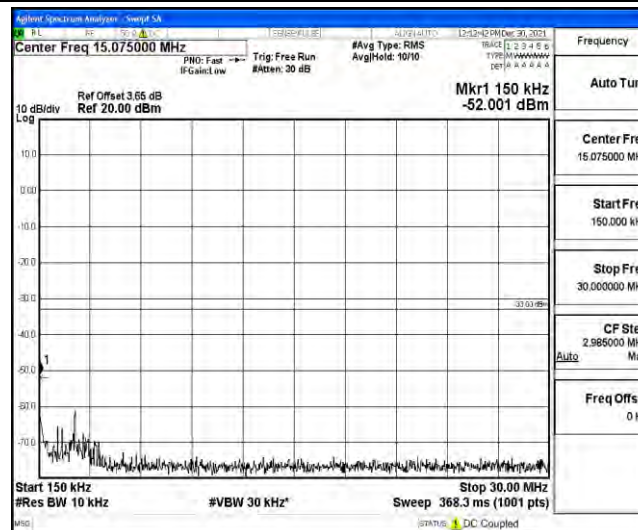
Band4-10MHz-QPSK-20175-Range5:10000~20000MHz



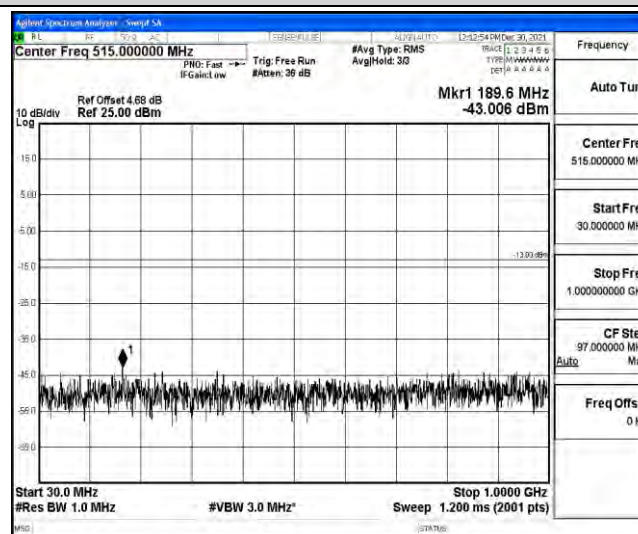
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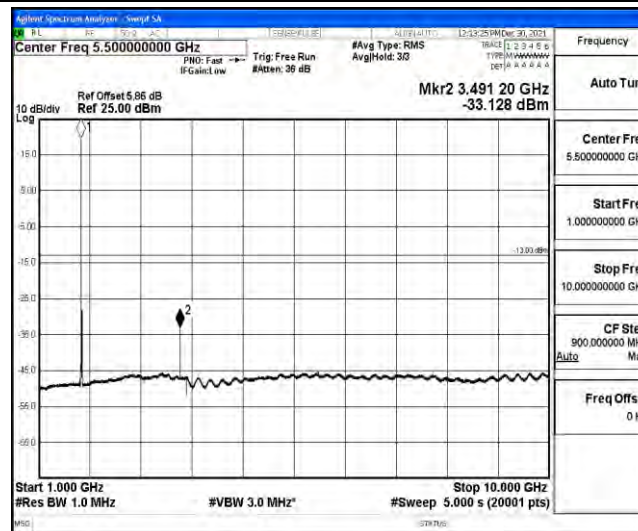
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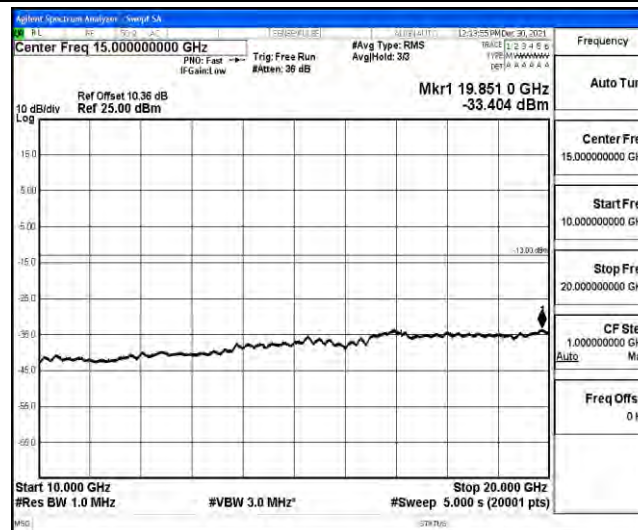
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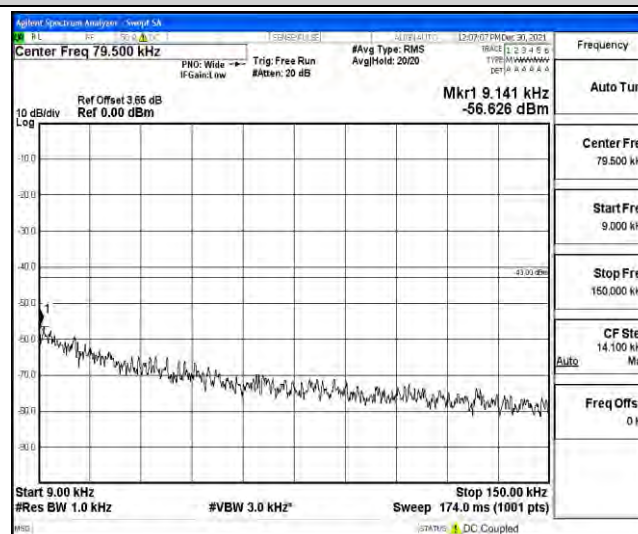
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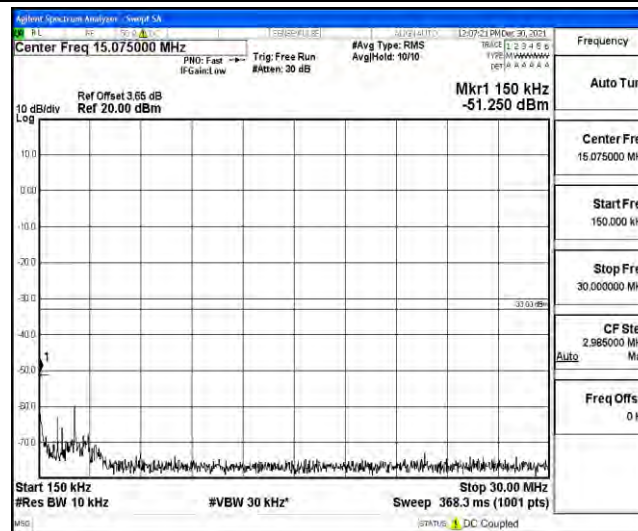
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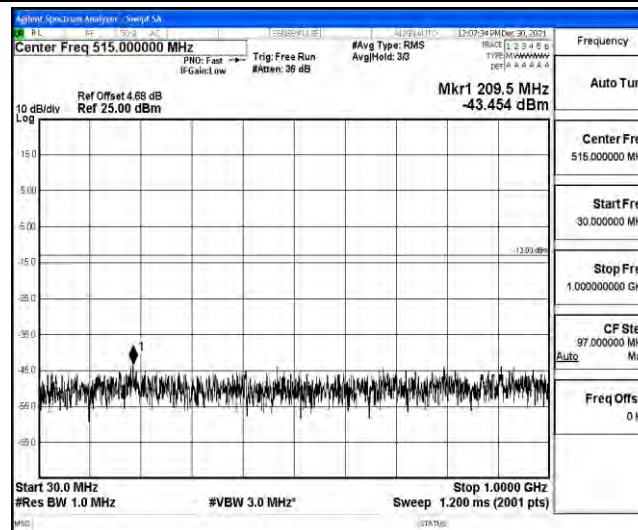
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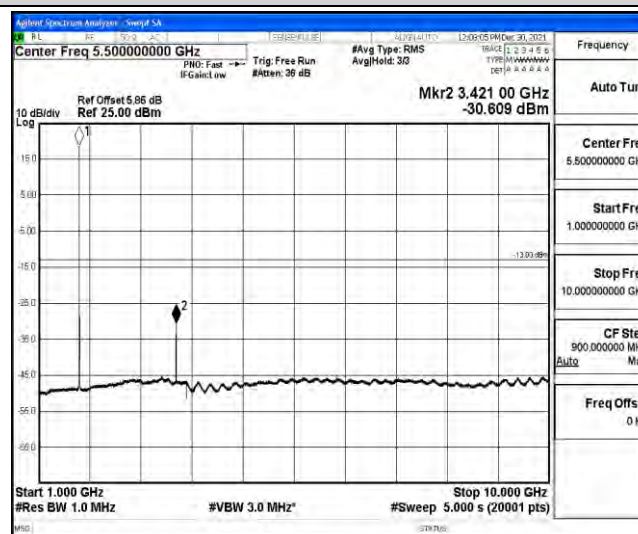
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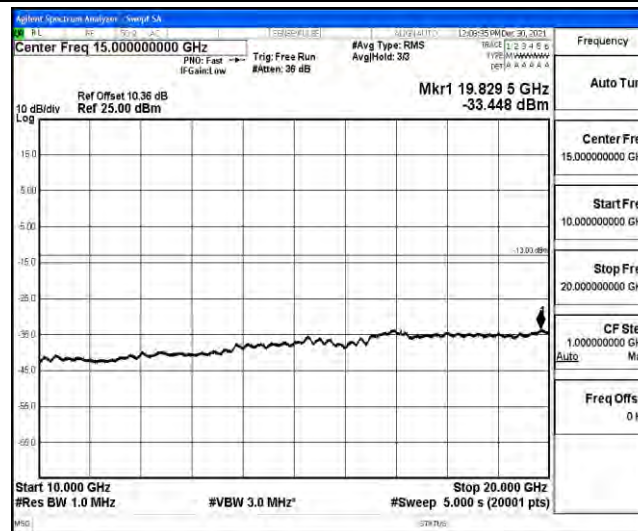
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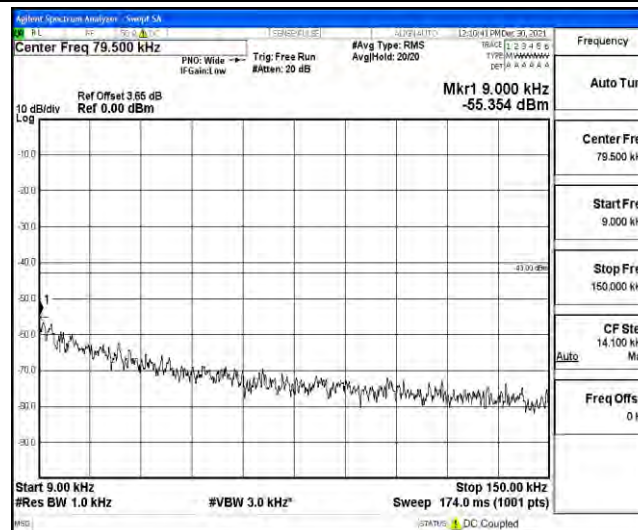
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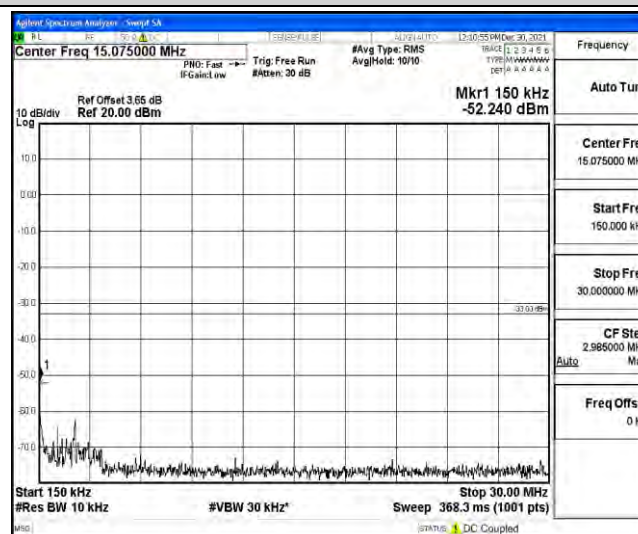
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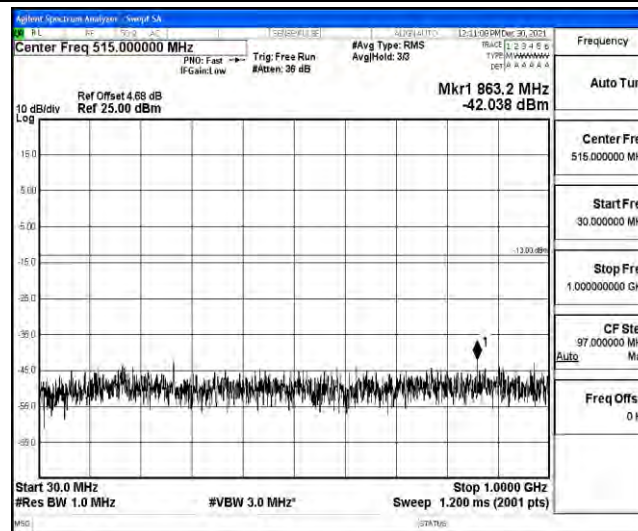
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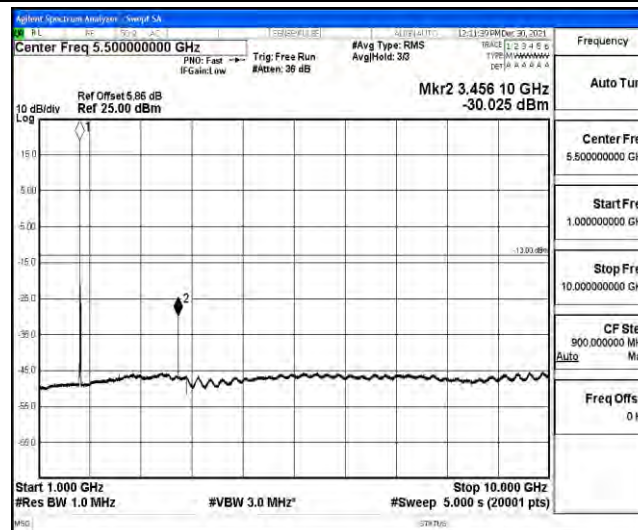
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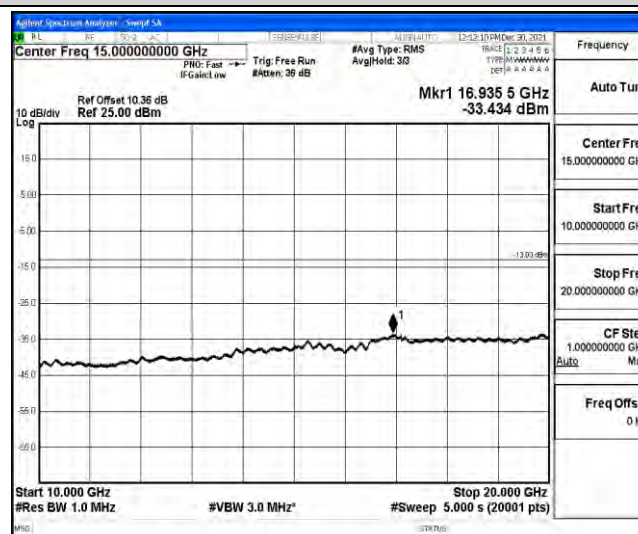
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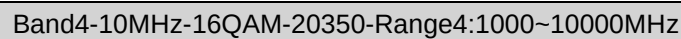
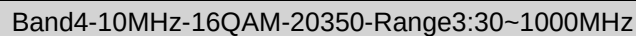
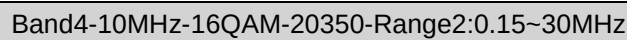
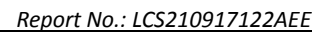
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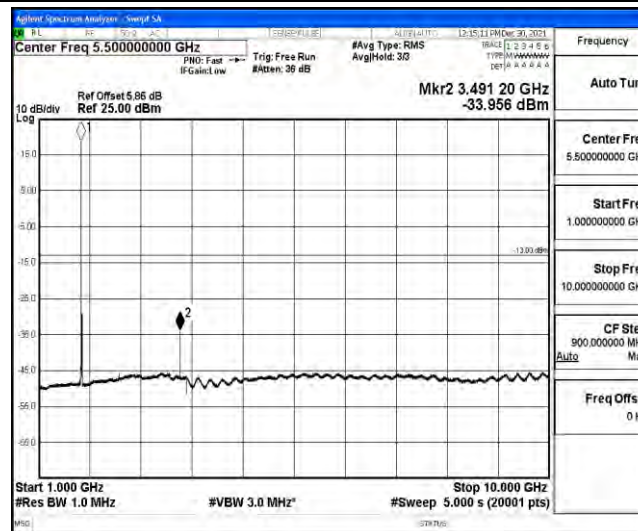


Band4-10MHz-16QAM-20175-Range5:10000~20000MHz

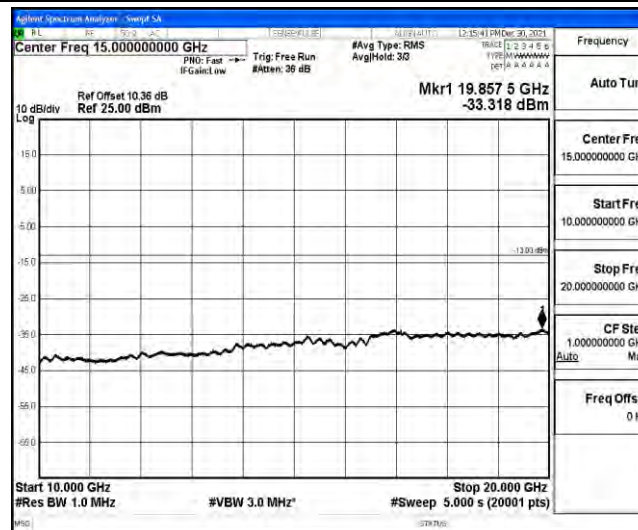


Band4-10MHz-16QAM-20350-Range1:0.009~0.15MHz

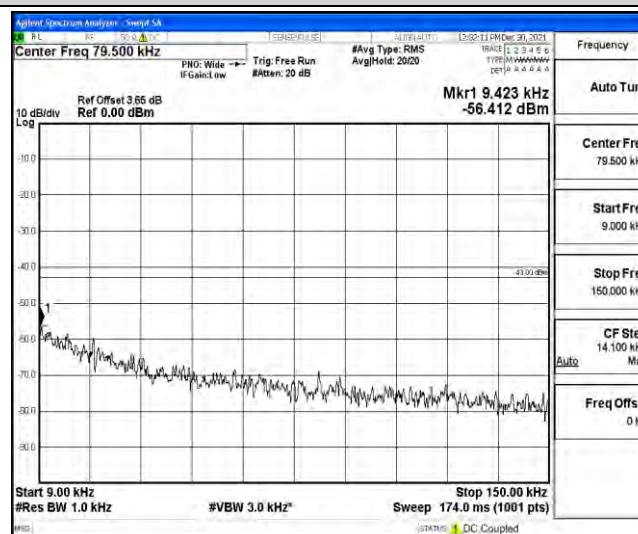




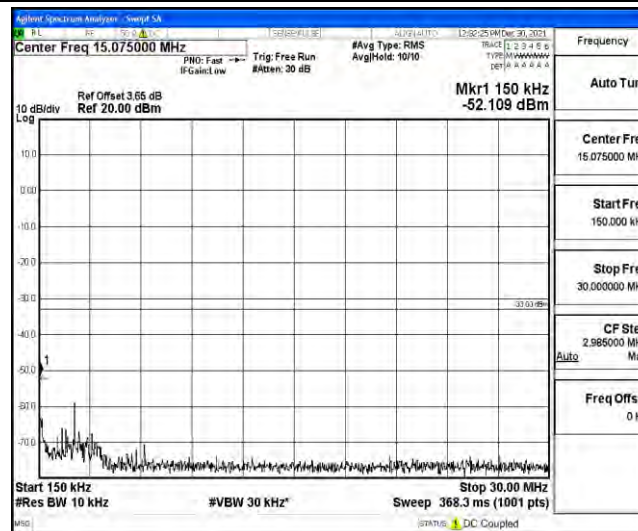
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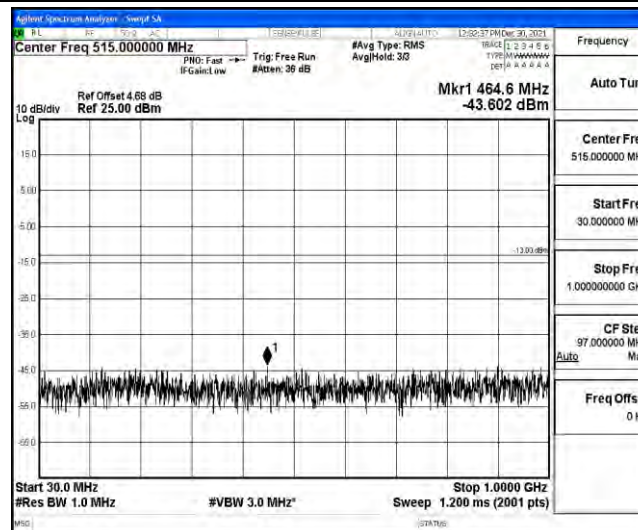
Band4-15MHz-QPSK-20025-Range1:0.009~0.15MHz



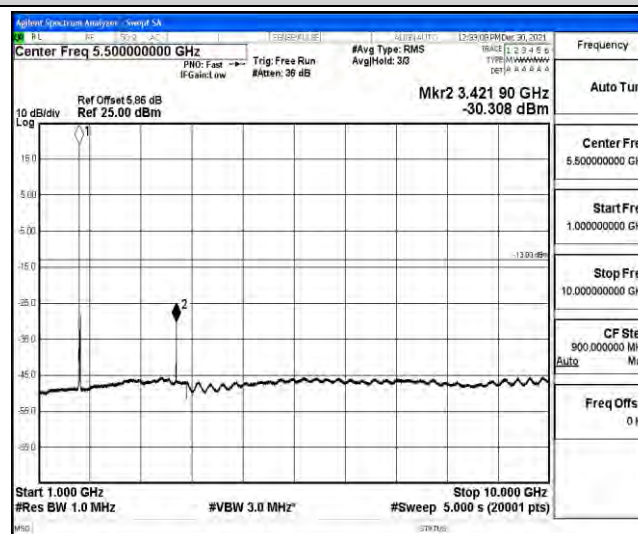
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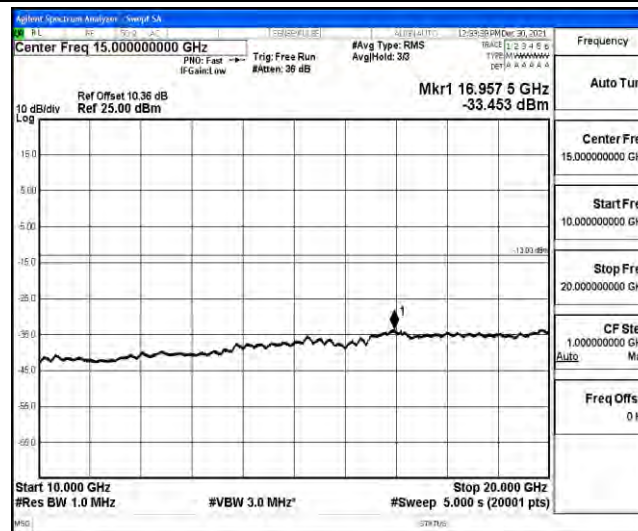
Band4-15MHz-QPSK-20025-Range3:30~1000MHz



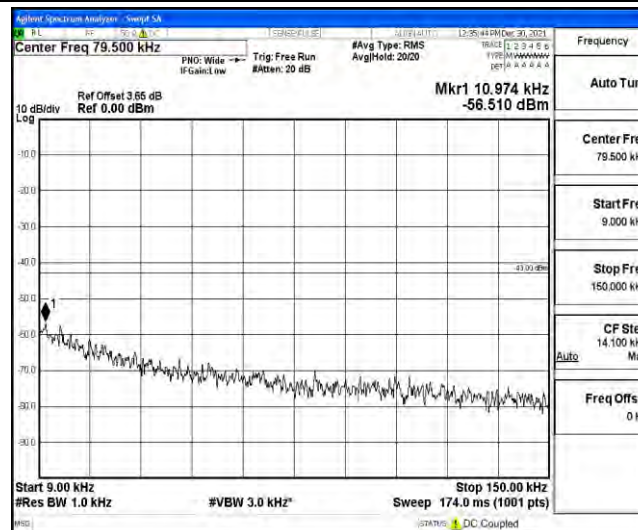
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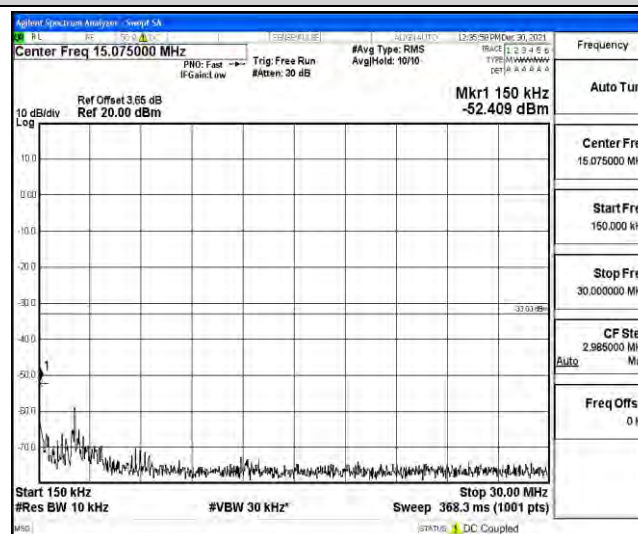
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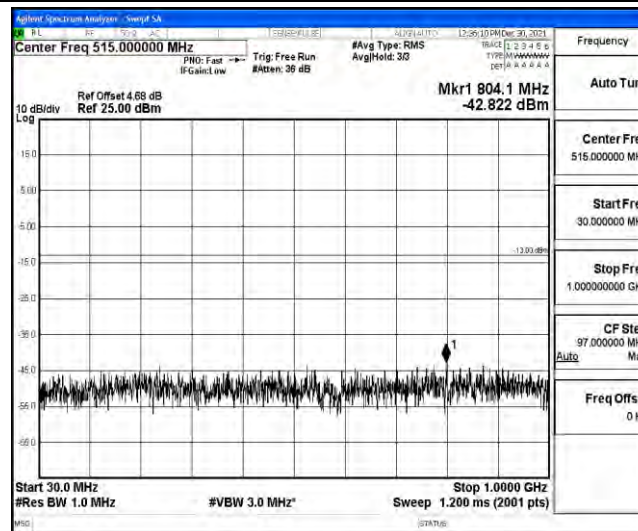
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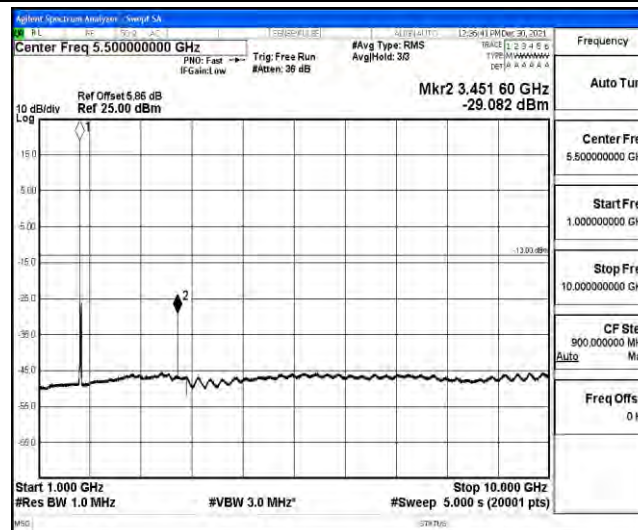
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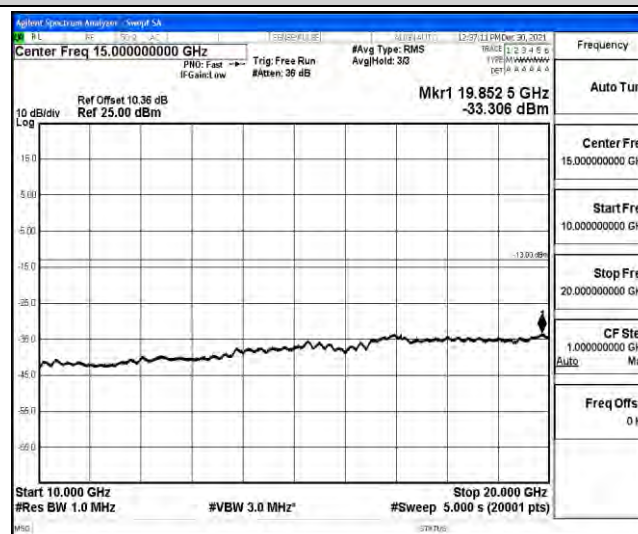
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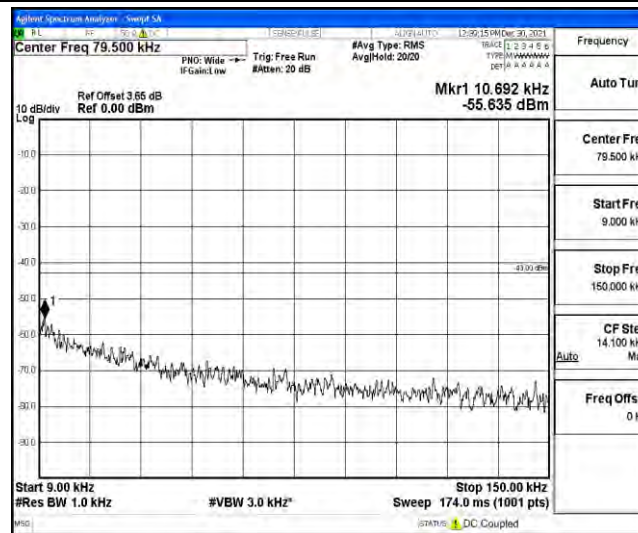
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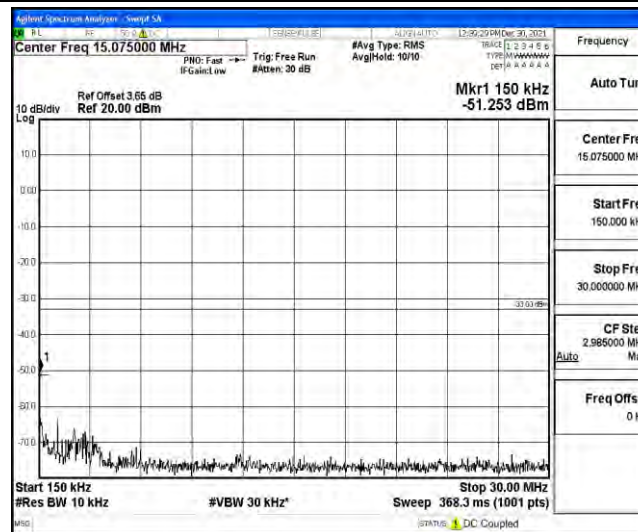
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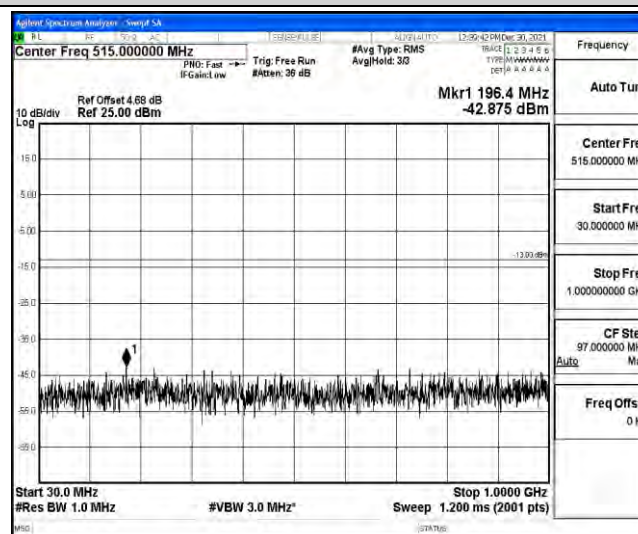
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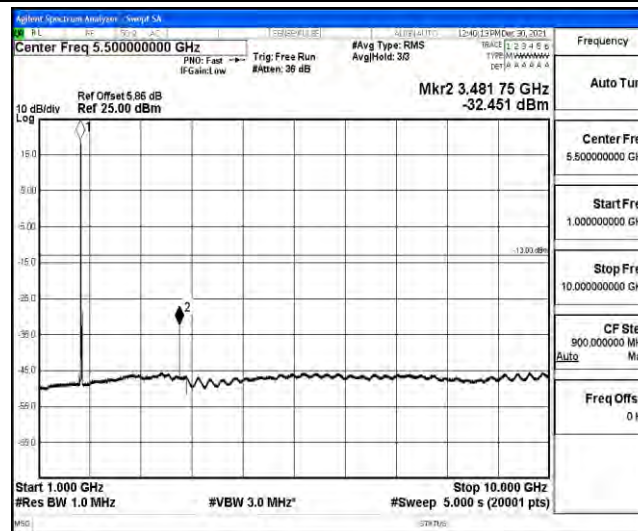
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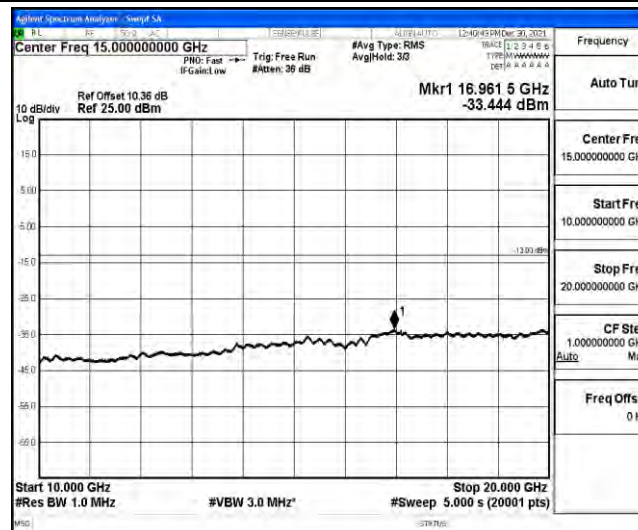
Band4-15MHz-QPSK-20325-Range3:30~1000MHz



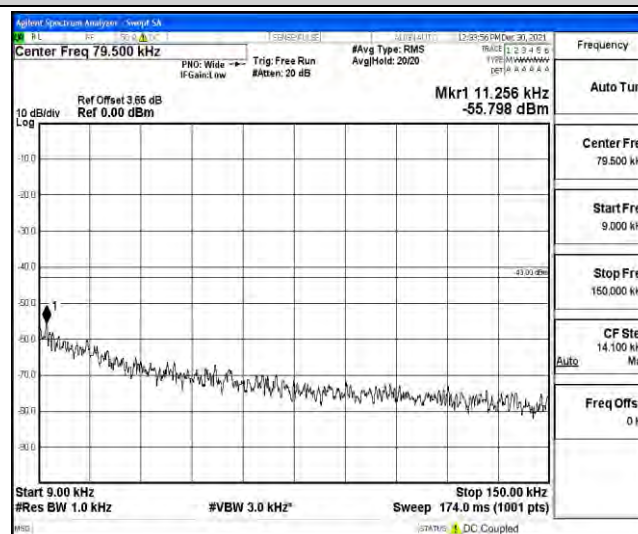
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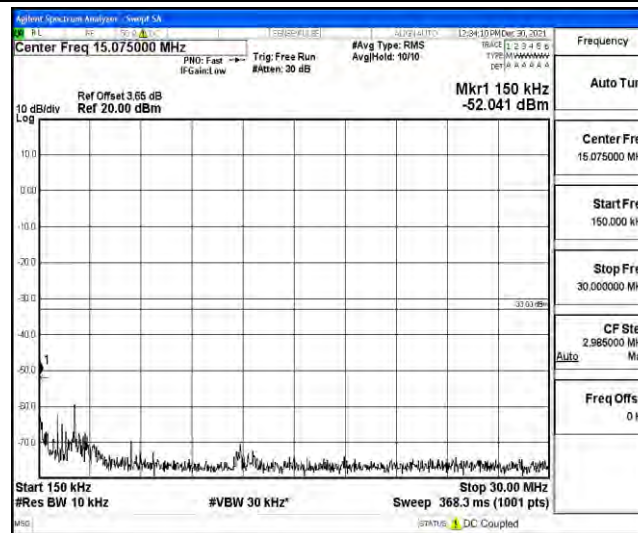
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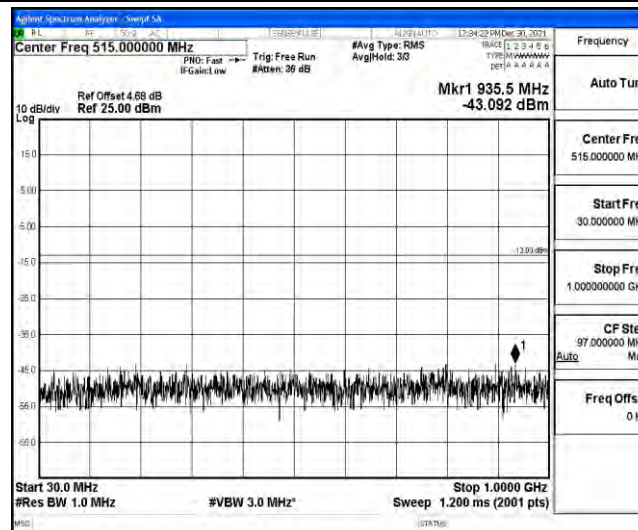
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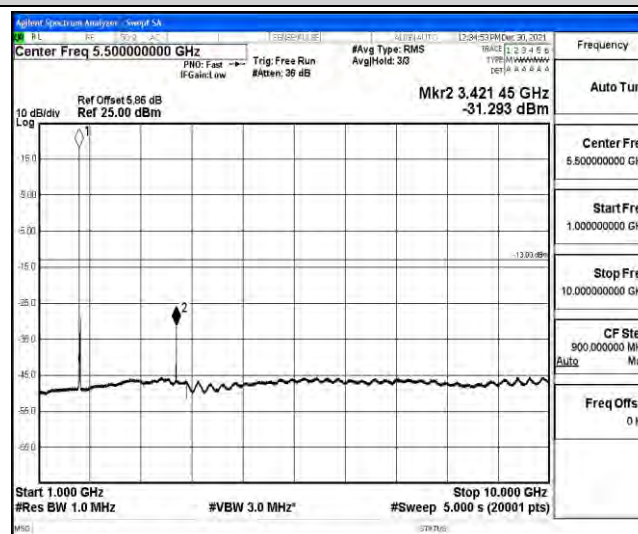
Band4-15MHz-16QAM-20025-Range2:0.15~30MHz



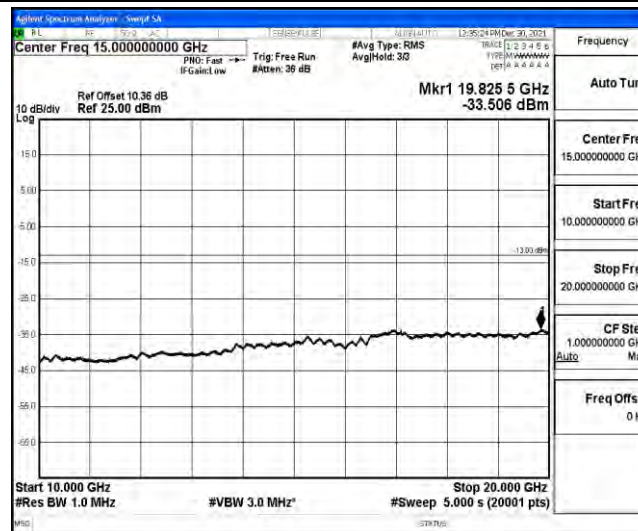
Band4-15MHz-16QAM-20025-Range3:30~1000MHz



Band4-15MHz-16QAM-20025-Range4:1000~10000MHz



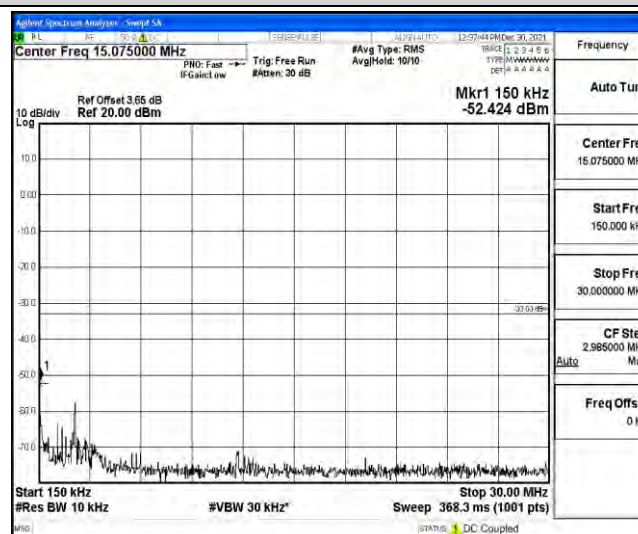
Band4-15MHz-16QAM-20025-Range5:10000~20000MHz



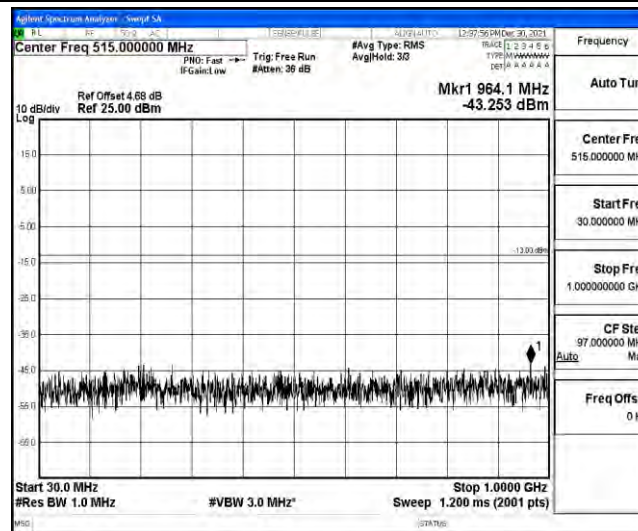
Band4-15MHz-16QAM-20175-Range1:0.009~0.15MHz



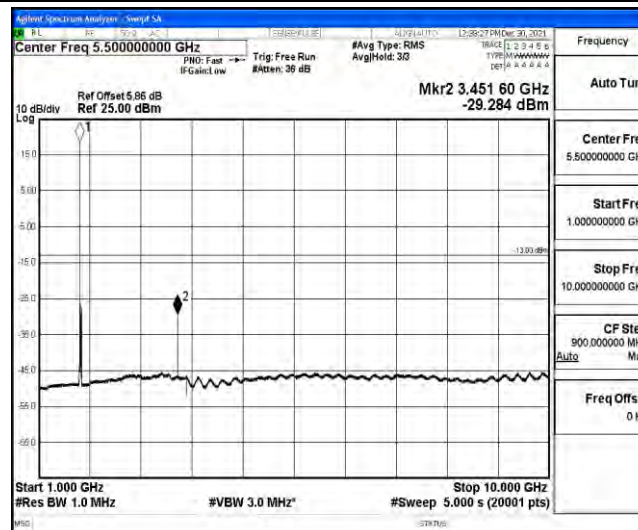
Band4-15MHz-16QAM-20175-Range2:0.15~30MHz



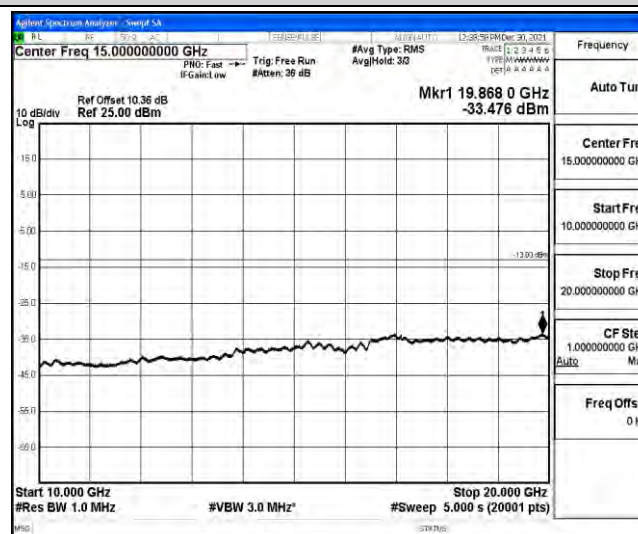
Band4-15MHz-16QAM-20175-Range3:30~1000MHz



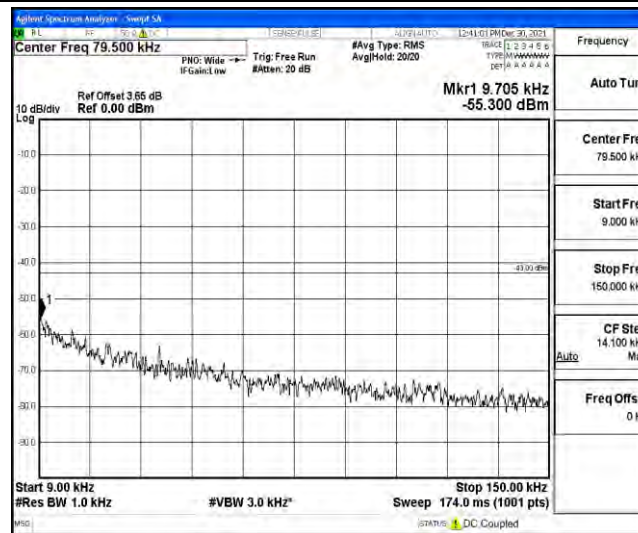
Band4-15MHz-16QAM-20175-Range4:1000~10000MHz



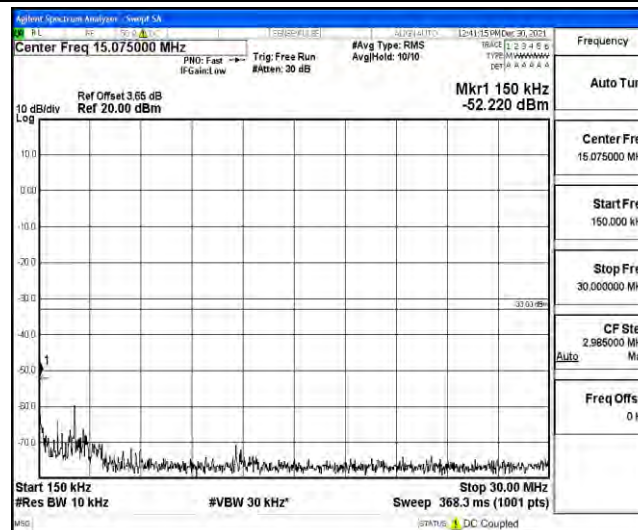
Band4-15MHz-16QAM-20175-Range5:10000~20000MHz



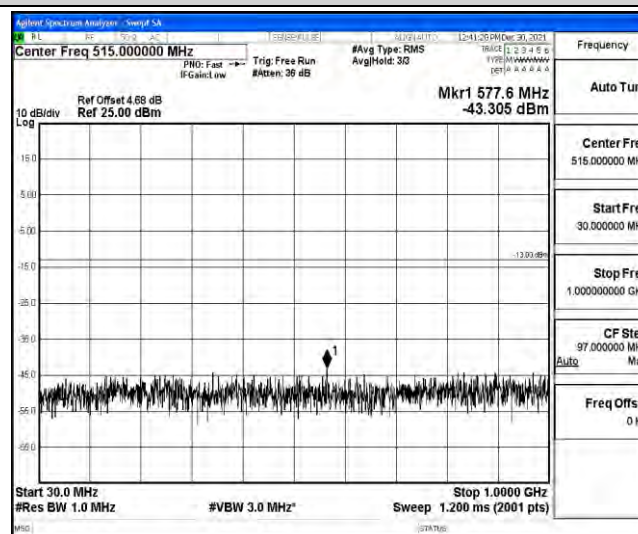
Band4-15MHz-16QAM-20325-Range1:0.009~0.15MHz



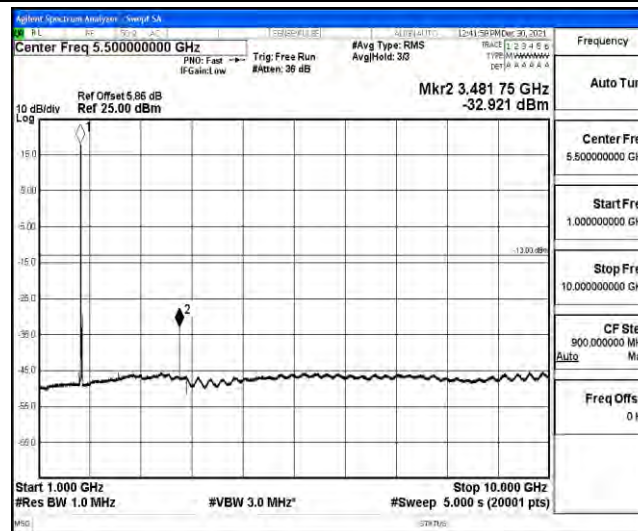
Band4-15MHz-16QAM-20325-Range2:0.15~30MHz



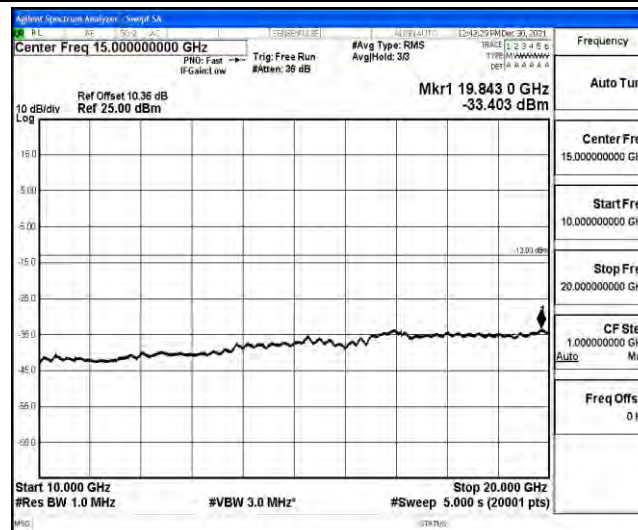
Band4-15MHz-16QAM-20325-Range3:30~1000MHz



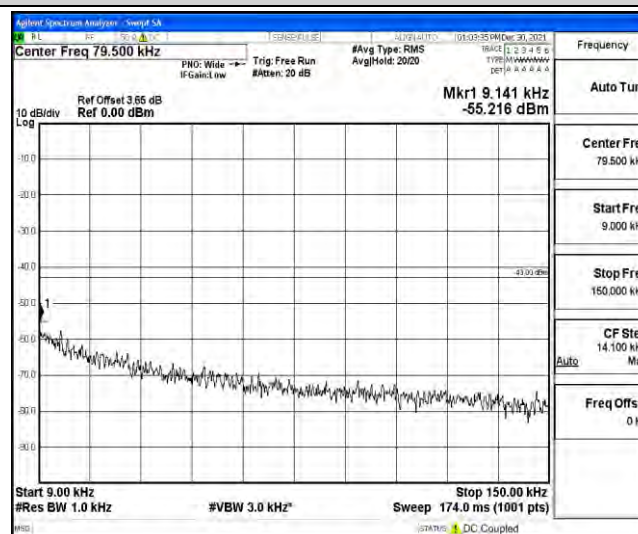
Band4-15MHz-16QAM-20325-Range4:1000~10000MHz



Band4-15MHz-16QAM-20325-Range5:10000~20000MHz



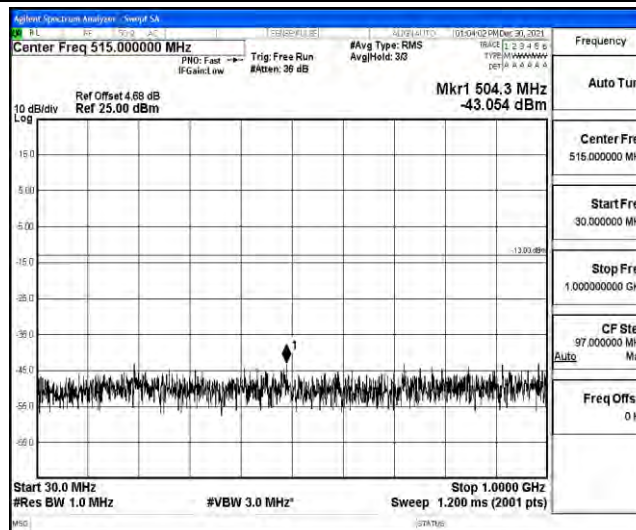
Band4-20MHz-QPSK-20050-Range1:0.009~0.15MHz



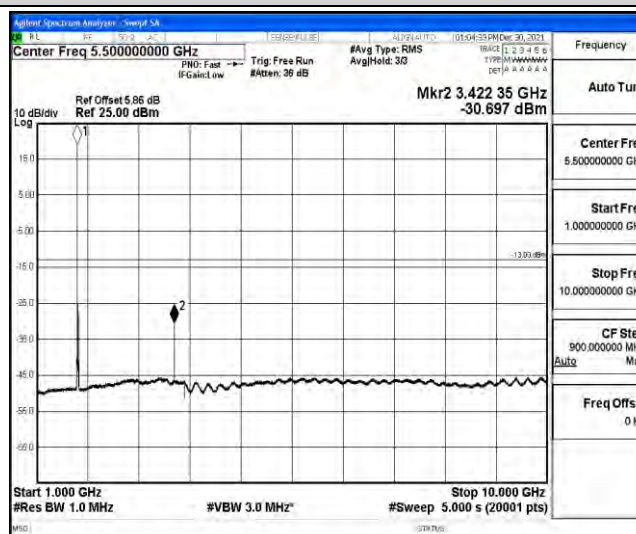
Band4-20MHz-QPSK-20050-Range2:0.15~30MHz



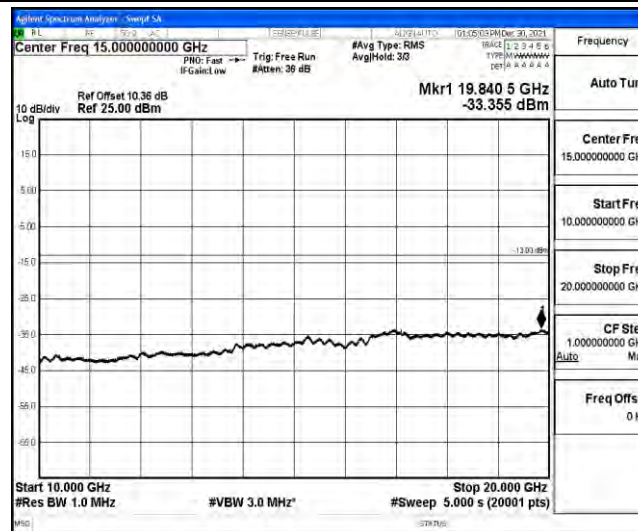
Band4-20MHz-QPSK-20050-Range3:30~1000MHz



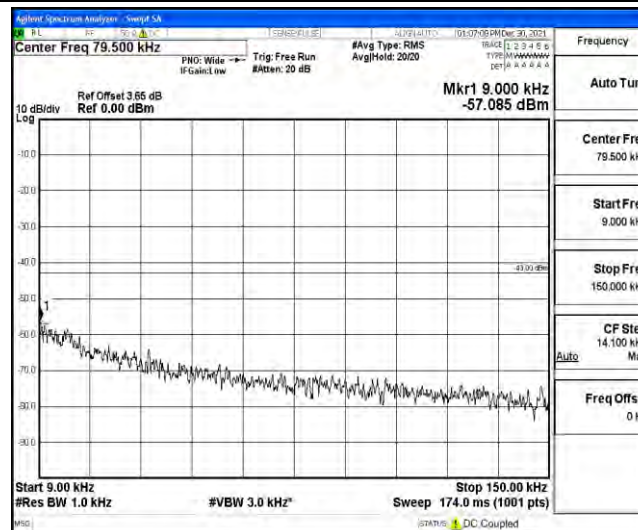
Band4-20MHz-QPSK-20050-Range4:1000~10000MHz



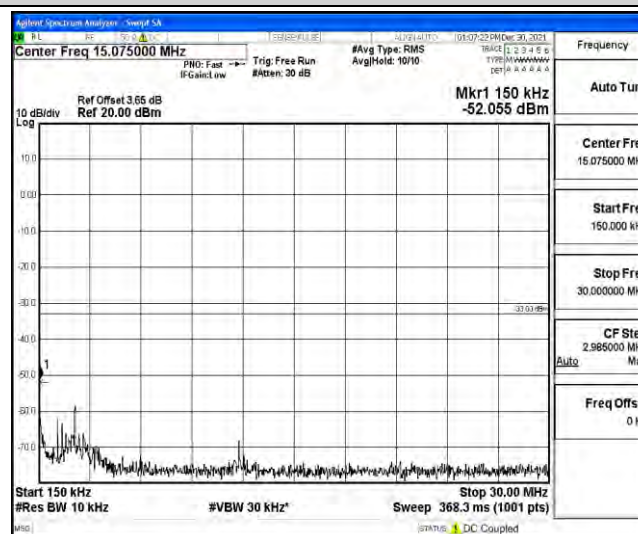
Band4-20MHz-QPSK-20050-Range5:10000~20000MHz



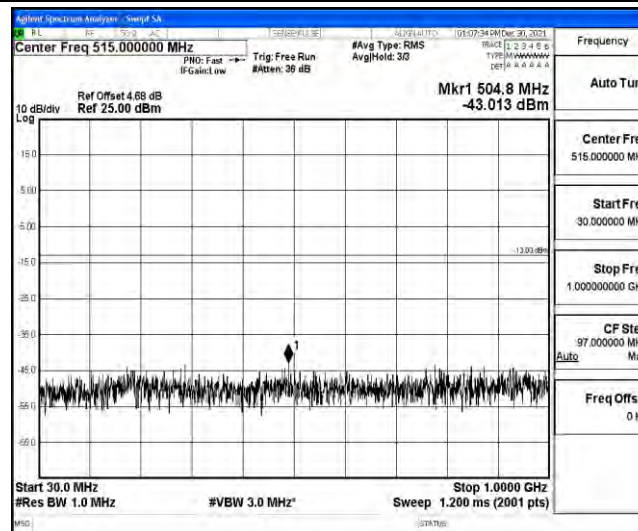
Band4-20MHz-QPSK-20175-Range1:0.009~0.15MHz



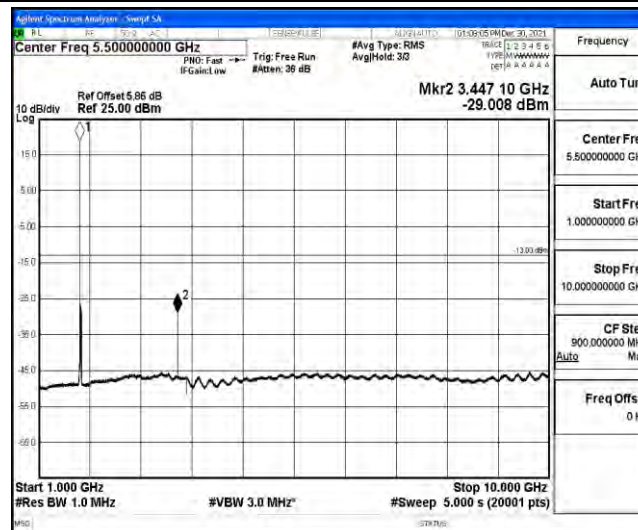
Band4-20MHz-QPSK-20175-Range2:0.15~30MHz



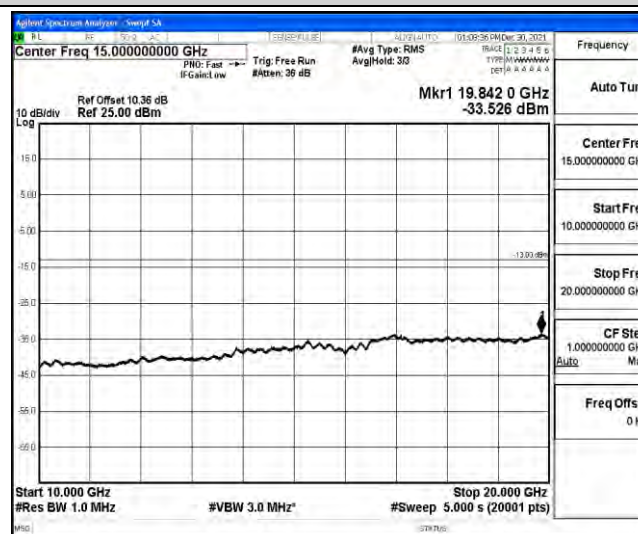
Band4-20MHz-QPSK-20175-Range3:30~1000MHz



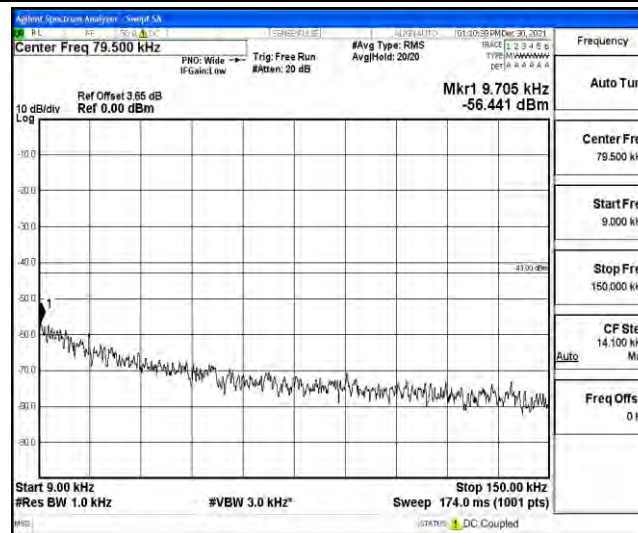
Band4-20MHz-QPSK-20175-Range4:1000~10000MHz



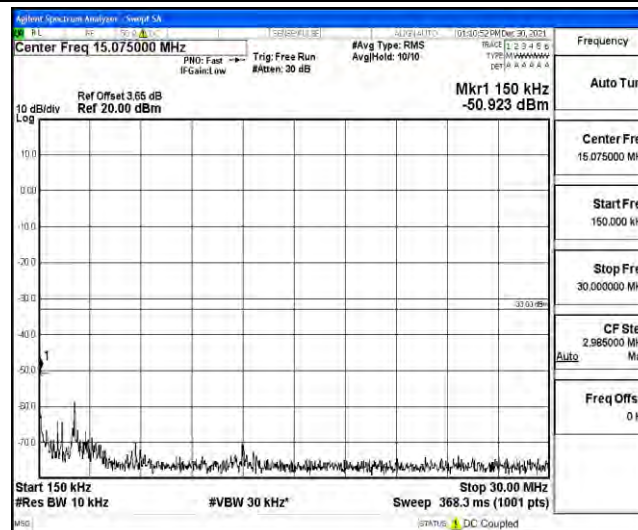
Band4-20MHz-QPSK-20175-Range5:10000~20000MHz



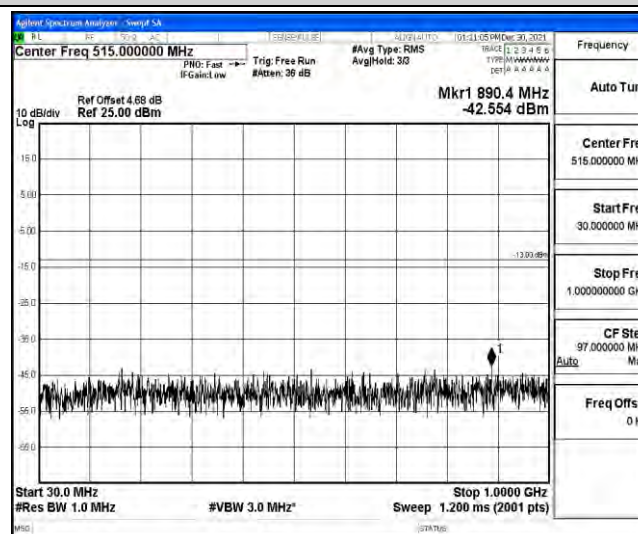
Band4-20MHz-QPSK-20300-Range1:0.009~0.15MHz



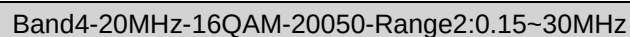
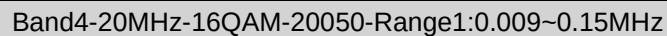
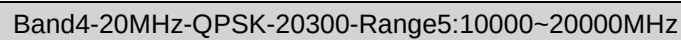
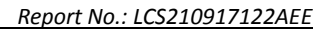
Band4-20MHz-QPSK-20300-Range2:0.15~30MHz

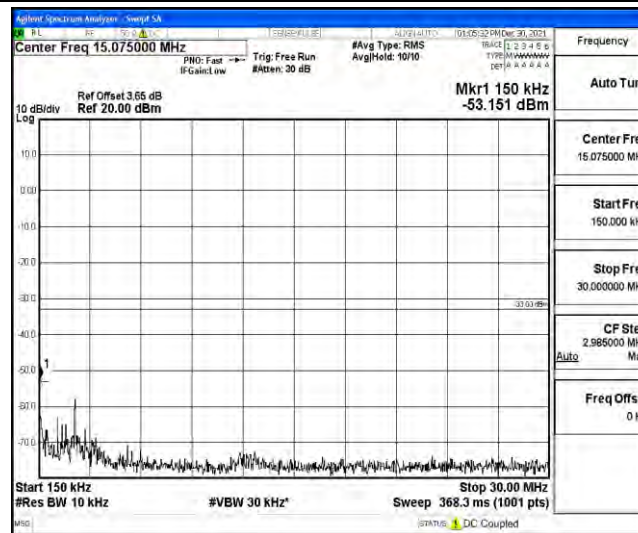


Band4-20MHz-QPSK-20300-Range3:30~1000MHz

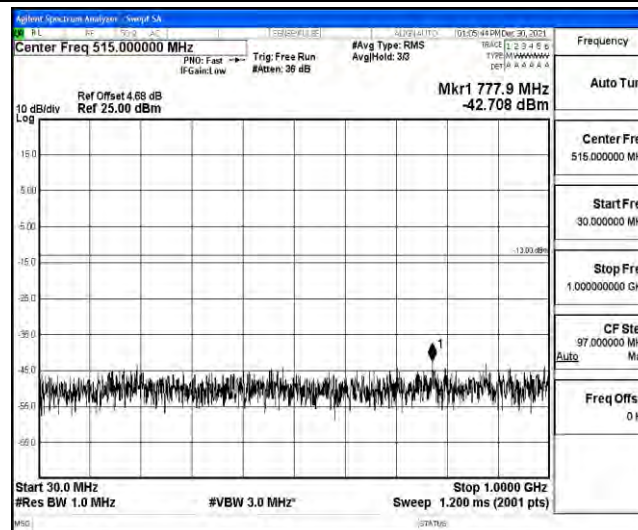


Band4-20MHz-QPSK-20300-Range4:1000~10000MHz

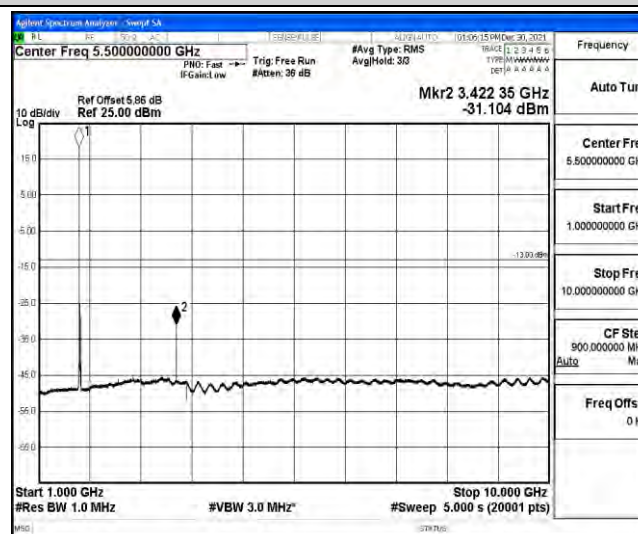




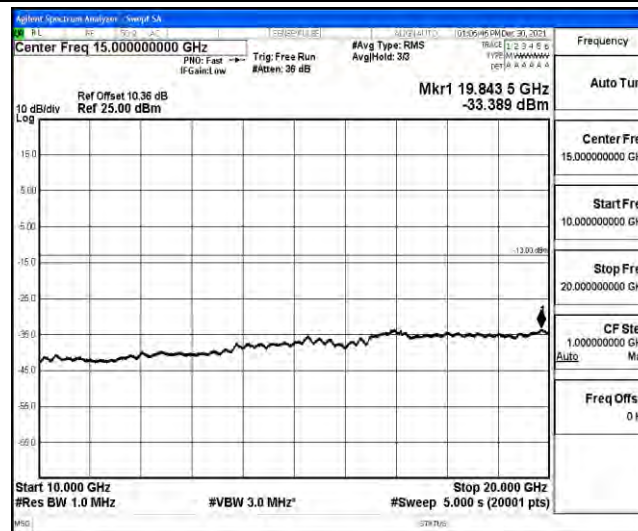
Band4-20MHz-16QAM-20050-Range3:30~1000MHz



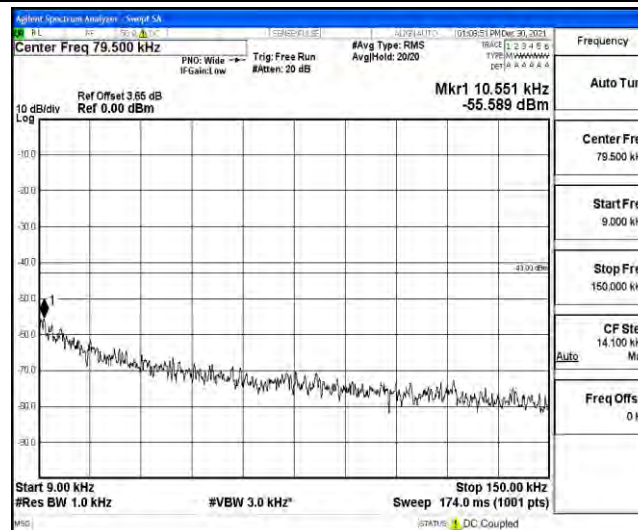
Band4-20MHz-16QAM-20050-Range4:1000~10000MHz



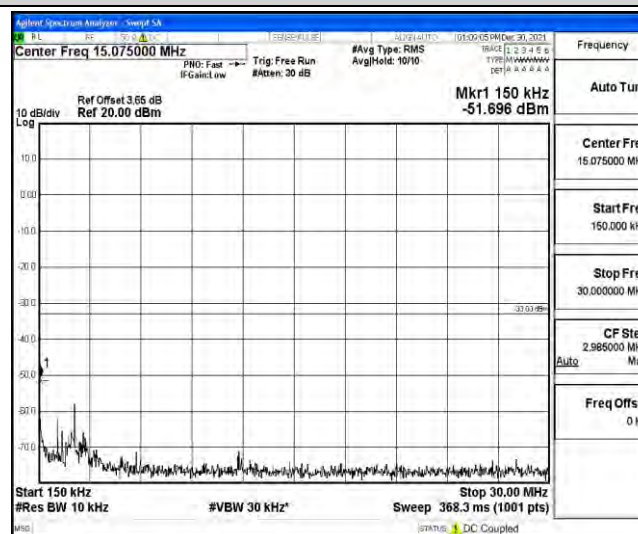
Band4-20MHz-16QAM-20050-Range5:10000~20000MHz



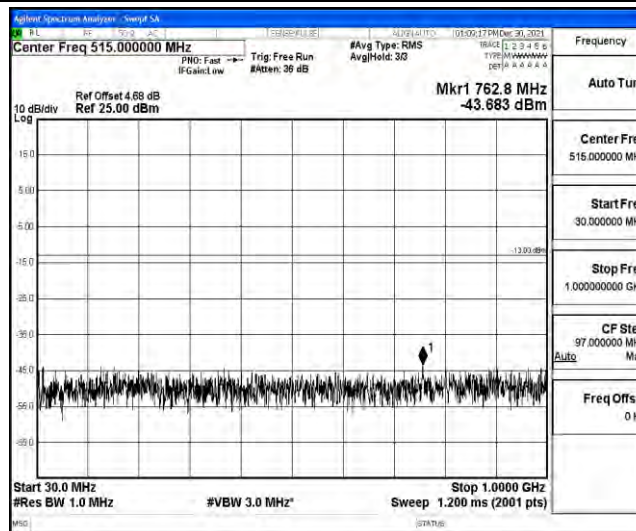
Band4-20MHz-16QAM-20175-Range1:0.009~0.15MHz



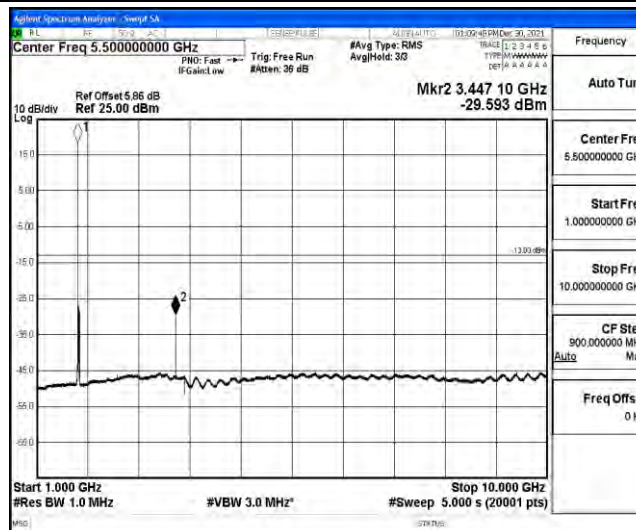
Band4-20MHz-16QAM-20175-Range2:0.15~30MHz



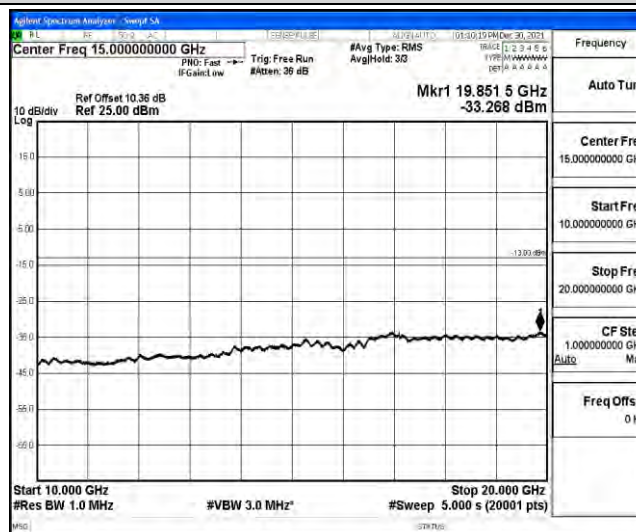
Band4-20MHz-16QAM-20175-Range3:30~1000MHz



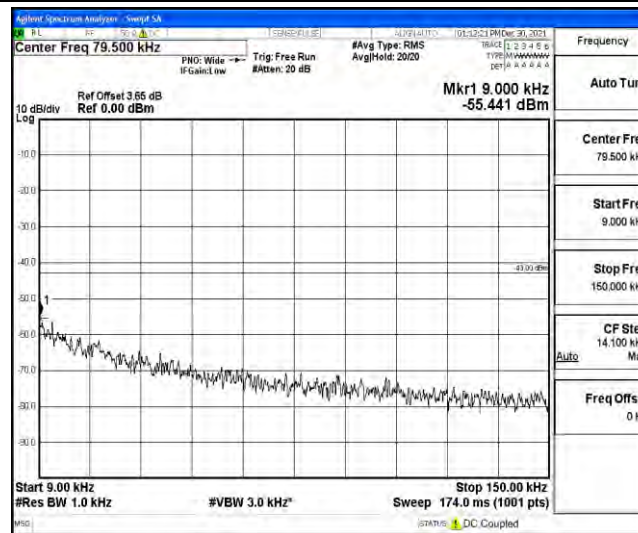
Band4-20MHz-16QAM-20175-Range4:1000~10000MHz



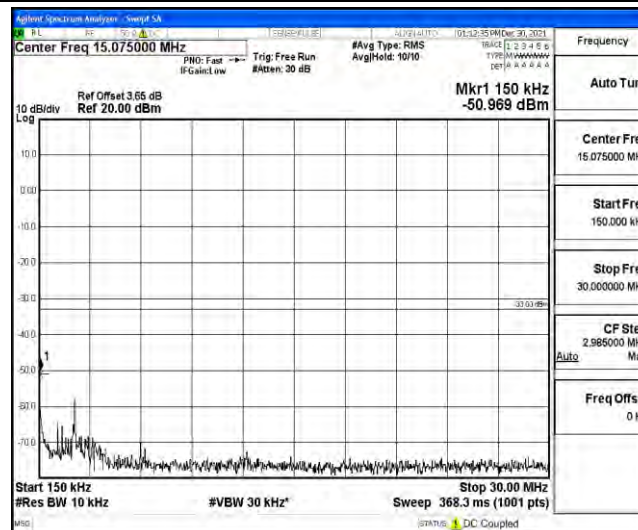
Band4-20MHz-16QAM-20175-Range5:10000~20000MHz



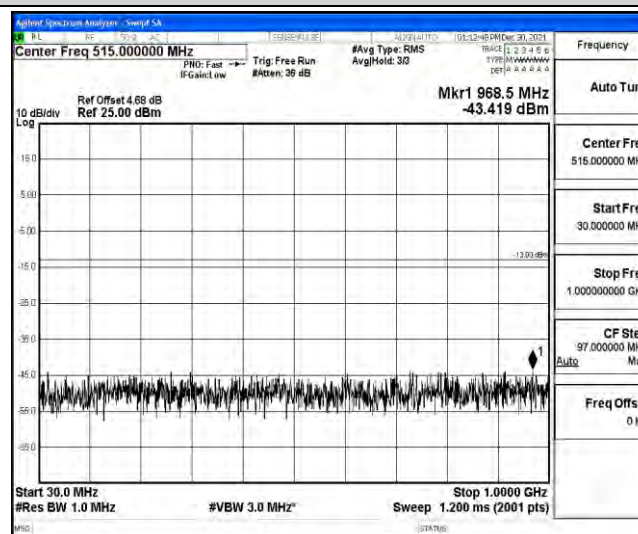
Band4-20MHz-16QAM-20300-Range1:0.009~0.15MHz



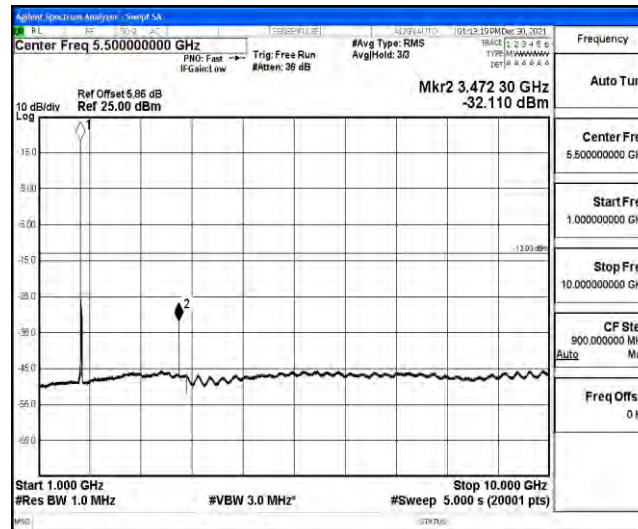
Band4-20MHz-16QAM-20300-Range2:0.15~30MHz



Band4-20MHz-16QAM-20300-Range3:30~1000MHz



Band4-20MHz-16QAM-20300-Range4:1000~10000MHz



Band4-20MHz-16QAM-20300-Range5:10000~20000MHz

