

Report No.: SUAR/2021/C000301

Rev.: 01

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Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.85	19.00	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.98	19.13	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.96	19.11	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	24.20	18.35	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	25.14	19.29	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	25.18	19.33	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	25.03	19.18	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	24.05	18.20	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	25.09	19.24	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	25.18	19.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.94	19.09	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	24.06	18.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	24.37	18.52	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	24.20	18.35	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	24.26	18.41	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	23.15	17.30	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	24.29	18.44	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.30	18.45	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	24.47	18.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	23.08	17.23	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	24.32	18.47	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	24.41	18.56	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	24.19	18.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	23.23	17.38	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.75	16.90	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.93	17.08	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.89	17.04	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	22.10	16.25	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	23.07	17.22	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	23.11	17.26	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.96	17.11	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.99	16.14	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	23.04	17.19	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	23.10	17.25	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.89	17.04	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.99	16.14	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	22.28	16.43	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	22.14	16.29	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	22.17	16.32	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	21.07	15.22	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	22.20	16.35	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	22.23	16.38	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	22.37	16.52	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	21.00	15.15	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	22.26	16.41	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	22.34	16.49	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	22.10	16.25	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	21.15	15.30	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.99	19.14	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	25.12	19.27	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	25.24	19.39	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	24.10	18.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	25.12	19.27	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	25.18	19.33	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	25.06	19.21	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	24.18	18.33	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	25.01	19.16	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	25.31	19.46	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	25.26	19.41	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	24.20	18.35	38.45	PASS



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Band5	3MHz	16QAM	20415	1RB#0	24.44	18.59	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.57	18.72	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	24.64	18.79	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	23.31	17.46	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.58	18.73	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	24.36	18.51	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.58	18.73	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	23.32	17.47	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	24.32	18.47	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	24.43	18.58	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	24.50	18.65	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	23.26	17.41	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.92	17.07	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	23.03	17.18	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	23.15	17.30	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	22.05	16.20	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	23.06	17.21	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	23.10	17.25	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.99	17.14	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	22.08	16.23	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.95	17.10	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	23.26	17.41	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	23.21	17.36	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	22.12	16.27	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	22.35	16.50	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	22.50	16.65	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	22.54	16.69	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	21.22	15.37	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	22.53	16.68	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	22.30	16.45	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	22.51	16.66	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	21.24	15.39	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	22.23	16.38	38.45	PASS



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Band5	3MHz	256QAM	20635	1RB#8	22.34	16.49	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	22.40	16.55	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	21.20	15.35	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	25.16	19.31	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	25.10	19.25	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	25.20	19.35	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	24.20	18.35	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	25.09	19.24	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	25.13	19.28	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	25.09	19.24	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	24.15	18.30	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	25.12	19.27	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	25.12	19.27	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	25.04	19.19	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	24.14	18.29	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	24.41	18.56	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	24.51	18.66	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	24.46	18.61	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	23.15	17.30	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	24.37	18.52	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	24.51	18.66	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	24.59	18.74	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	23.13	17.28	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	24.48	18.63	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	24.59	18.74	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	24.50	18.65	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	23.20	17.35	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.89	17.04	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	23.07	17.22	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	23.15	17.30	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	22.02	16.17	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	23.03	17.18	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	23.12	17.27	38.45	PASS



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Band5	5MHz	64QAM	20525	1RB#24	22.97	17.12	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	22.12	16.27	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.94	17.09	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	23.26	17.41	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	23.16	17.31	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	22.14	16.29	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	22.37	16.52	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	22.47	16.62	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	22.58	16.73	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	21.25	15.40	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	22.53	16.68	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	22.30	16.45	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	22.52	16.67	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	21.23	15.38	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	22.26	16.41	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	22.37	16.52	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	22.41	16.56	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	21.19	15.34	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	25.08	19.23	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	25.15	19.30	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	25.20	19.35	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	24.23	18.38	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	25.33	19.48	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	25.16	19.31	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	25.18	19.33	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	24.24	18.39	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	25.06	19.21	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	25.18	19.33	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	25.10	19.25	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	24.22	18.37	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	24.47	18.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	24.51	18.66	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	24.49	18.64	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	23.23	17.38	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	24.46	18.61	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	24.51	18.66	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	24.60	18.75	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	23.22	17.37	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	24.39	18.54	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	24.53	18.68	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	24.46	18.61	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	23.23	17.38	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.93	17.08	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	23.03	17.18	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	23.14	17.29	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	22.05	16.20	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	23.07	17.22	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	23.12	17.27	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.99	17.14	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	22.11	16.26	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.95	17.10	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	23.26	17.41	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	23.17	17.32	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	22.10	16.25	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	22.37	16.52	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	22.50	16.65	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	22.56	16.71	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	21.25	15.40	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	22.49	16.64	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	22.28	16.43	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	22.49	16.64	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	21.25	15.40	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	22.24	16.39	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	22.34	16.49	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	22.44	16.59	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	21.20	15.35	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.40	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.24	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.14	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.16	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.18	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.66	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.72	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.64	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.58	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.56	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.54	13	PASS



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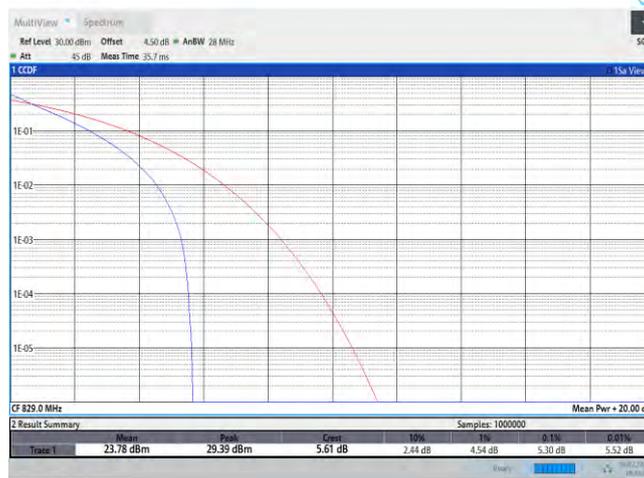
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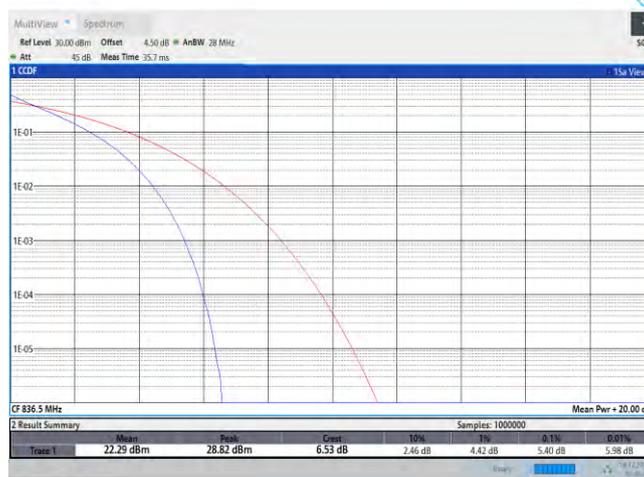
Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



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Band5-10MHz-QPSK-20525-50RB#0



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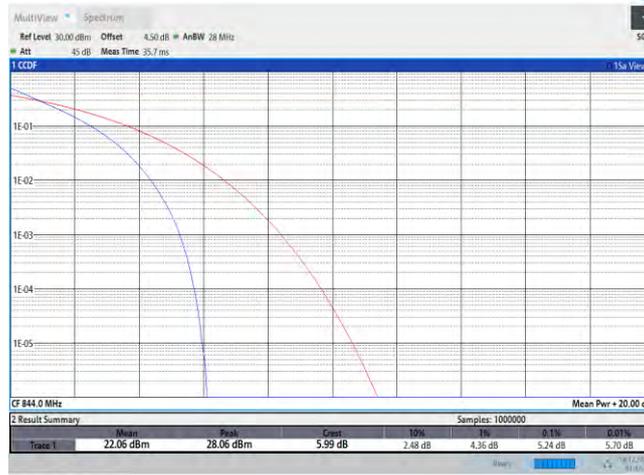


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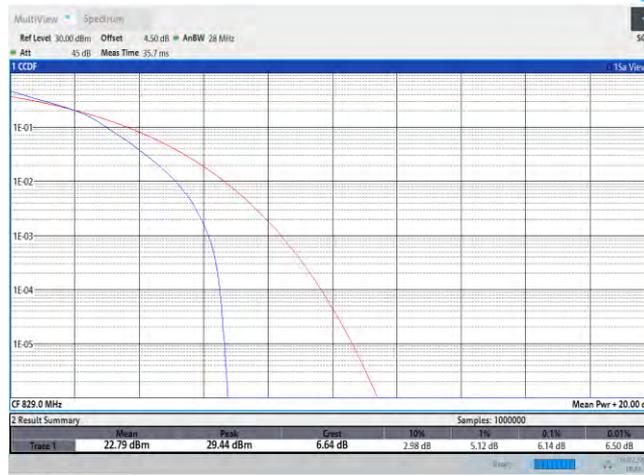
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Band5-10MHz-QPSK-20600-50RB#0



18:41:16 16.02.2022

Band5-10MHz-16QAM-20450-50RB#0



18:41:18 16.02.2022

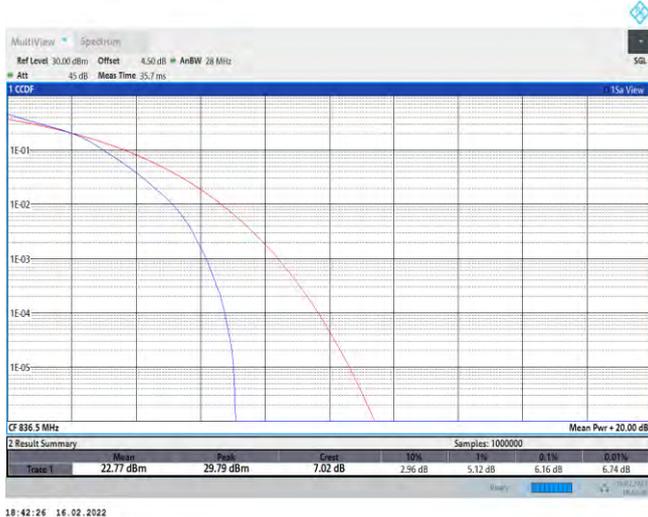


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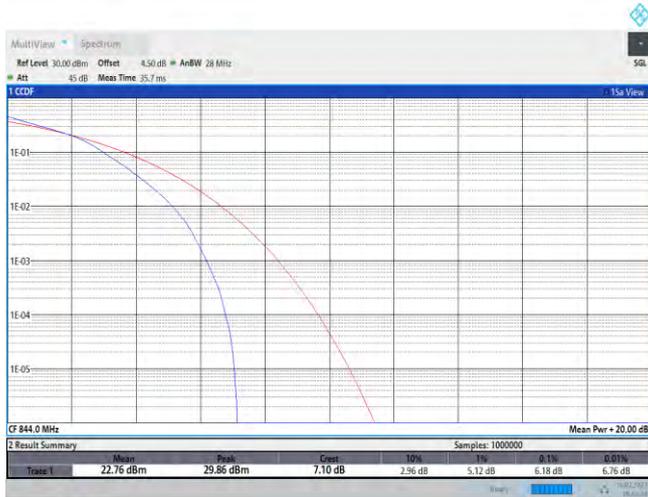
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Band5-10MHz-16QAM-20525-50RB#0



18:42:26 16.02.2022

Band5-10MHz-16QAM-20600-50RB#0



18:43:34 16.02.2022

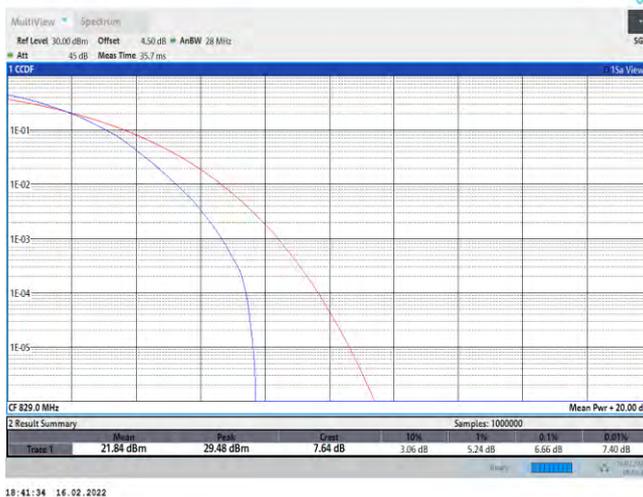


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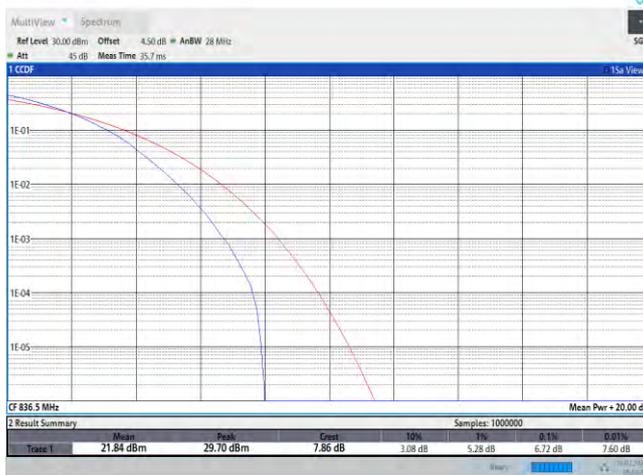
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Band5-10MHz-64QAM-20450-50RB#0



18:41:34 16.02.2022

Band5-10MHz-64QAM-20525-50RB#0



18:42:43 16.02.2022

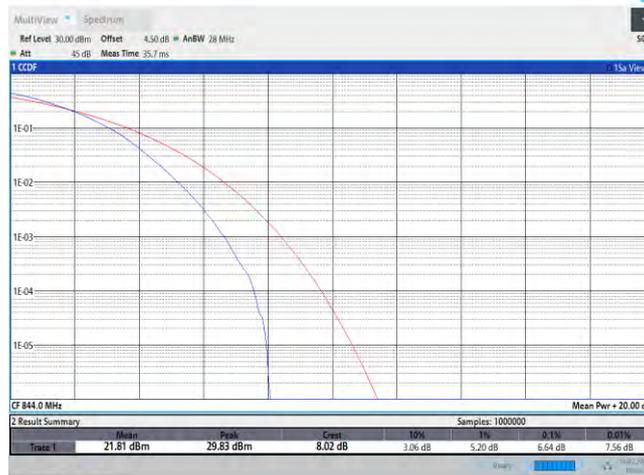


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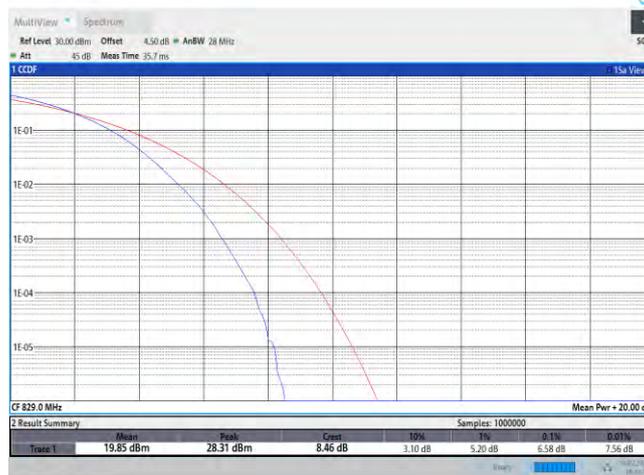
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Band5-10MHz-64QAM-20600-50RB#0



Band5-10MHz-256QAM-20450-50RB#0

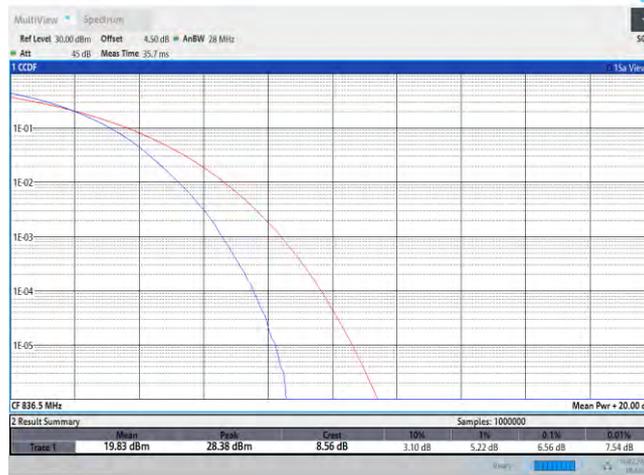


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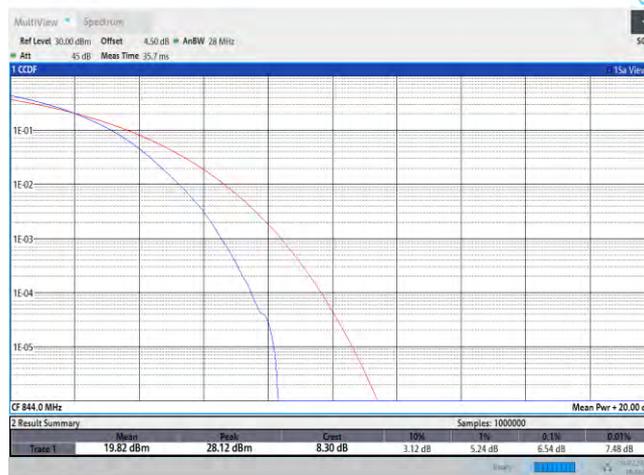
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Band5-10MHz-256QAM-20525-50RB#0



18:42:59 16.02.2022

Band5-10MHz-256QAM-20600-50RB#0



18:44:07 16.02.2022



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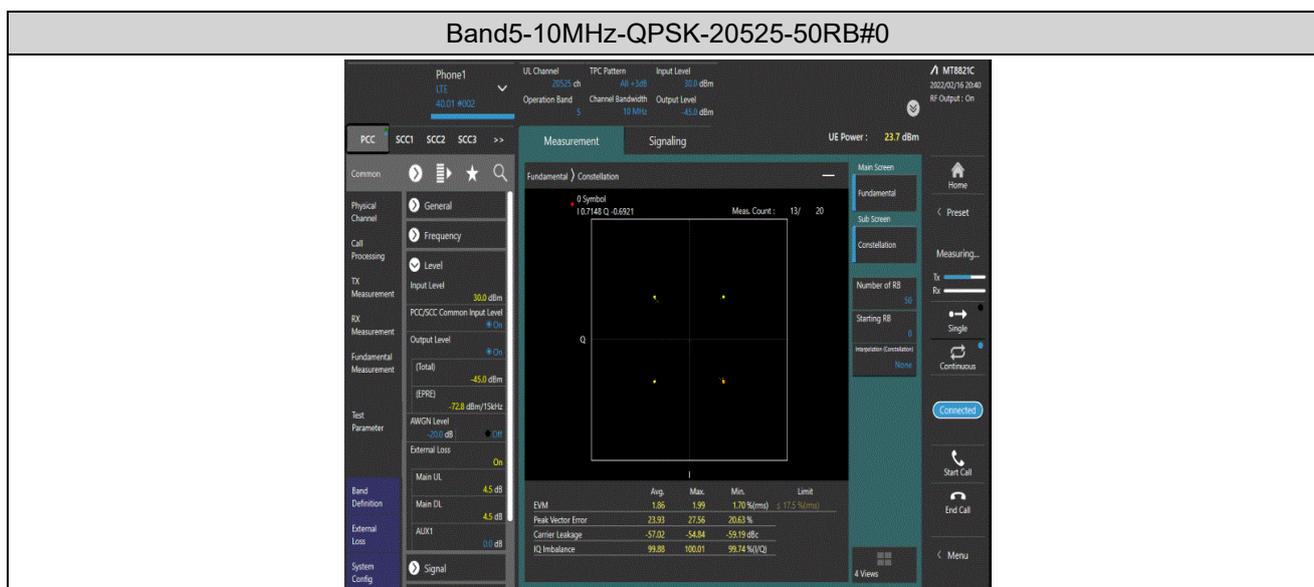
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	256QAM	20525	50RB#0	PASS	PASS

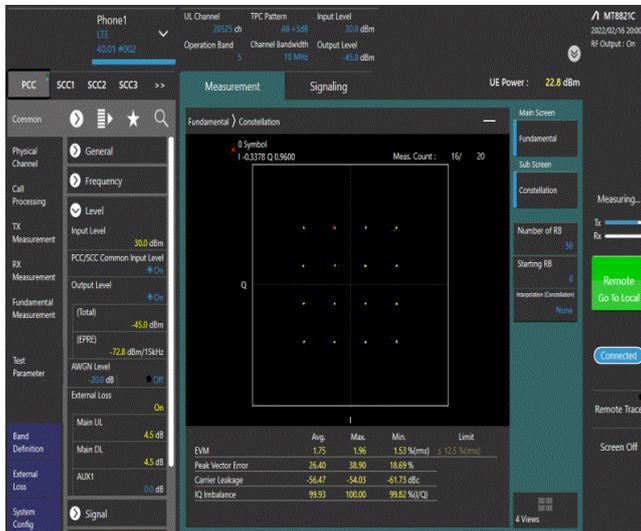
Test Graphs



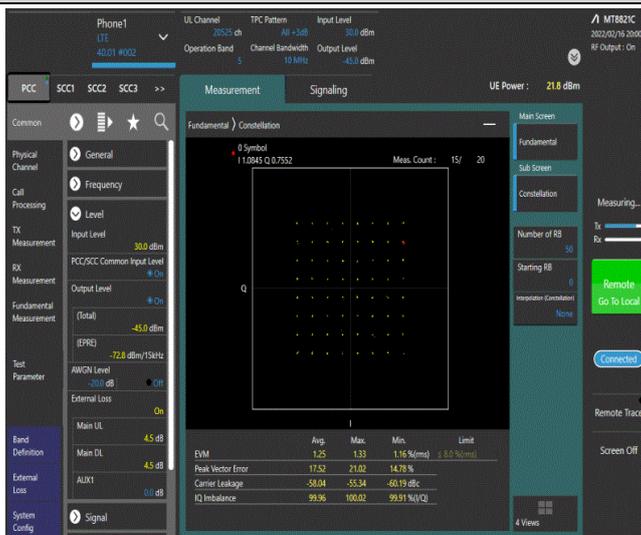
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Band5-10MHz-64QAM-20525-50RB#0

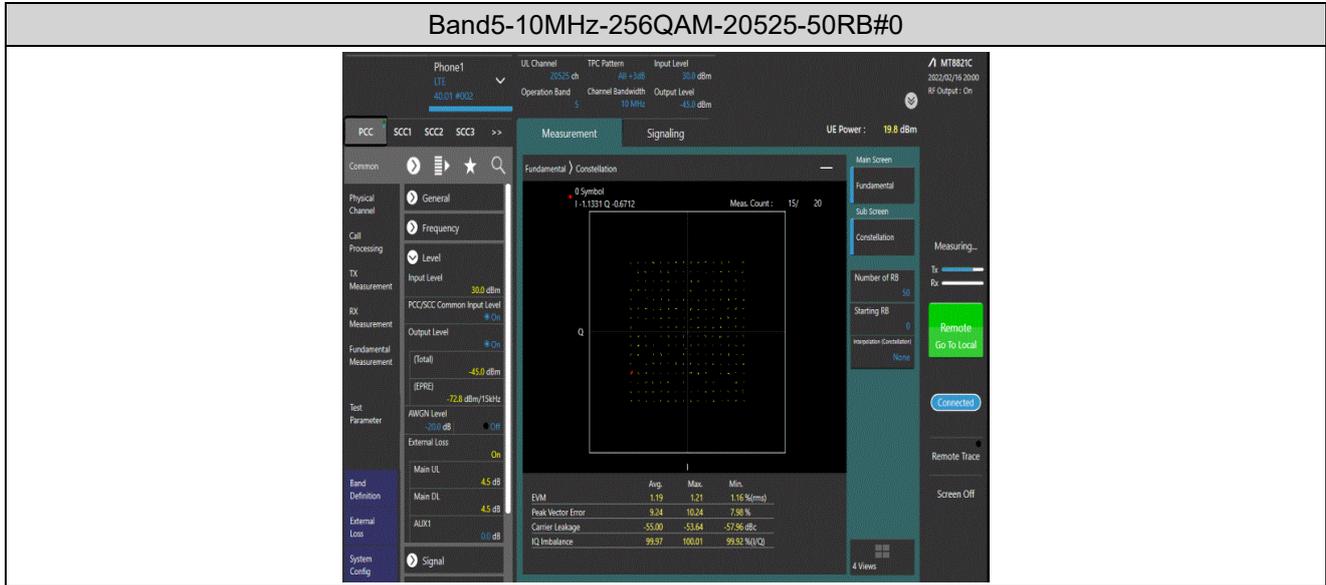


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.092	1.24	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.089	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.089	1.24	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.089	1.24	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.093	1.25	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.094	1.25	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.093	1.25	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.085	1.24	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.088	1.24	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.087	1.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	3.02	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7	3.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.698	3.01	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.691	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.694	2.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.99	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.692	2.97	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.693	2.98	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.698	2.98	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.693	3.01	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.69	3.02	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.692	3.01	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.467	4.88	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.471	4.89	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.467	4.87	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.467	4.88	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.472	4.90	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.473	4.89	PASS



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Rev.: 01

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Band5	5MHz	64QAM	20425	25RB#0	4.473	4.86	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.477	4.90	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.48	4.88	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.462	4.86	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.47	4.86	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.474	4.86	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.929	9.62	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.944	9.68	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.914	9.58	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.913	9.64	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.926	9.70	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.914	9.72	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.926	9.66	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.954	9.66	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.935	9.66	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.94	9.72	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.944	9.72	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.931	9.66	PASS



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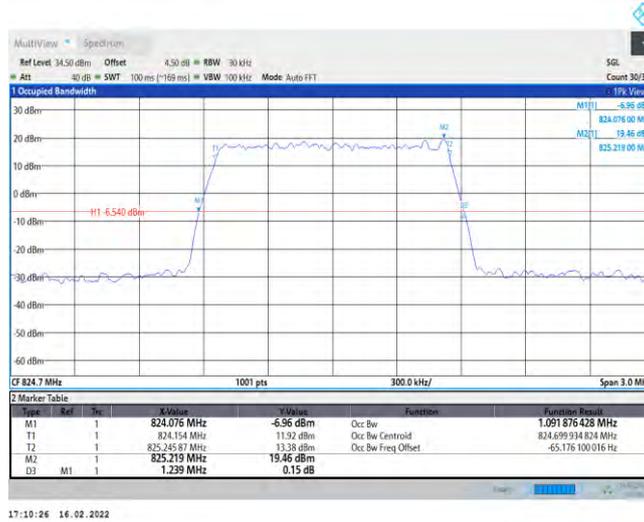
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Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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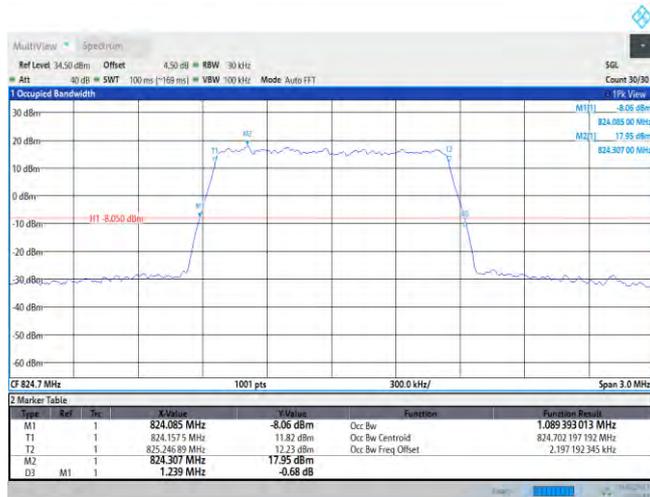
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Band5-1.4MHz-QPSK-20643-6RB#0



17:14:01 16.02.2022

Band5-1.4MHz-16QAM-20407-6RB#0



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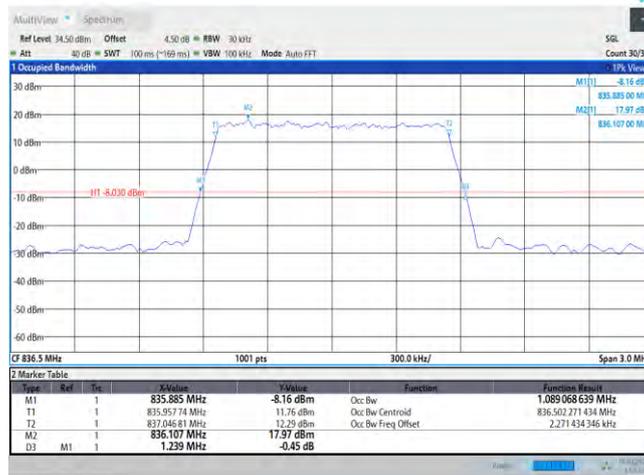


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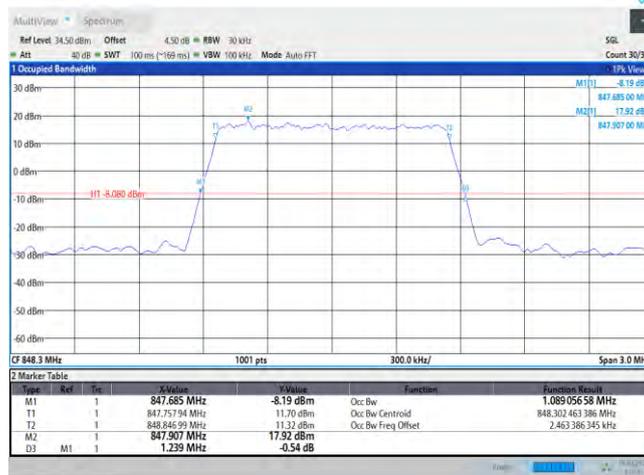
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Band5-1.4MHz-16QAM-20525-6RB#0



17:12:54 16.02.2022

Band5-1.4MHz-16QAM-20643-6RB#0



17:14:19 16.02.2022

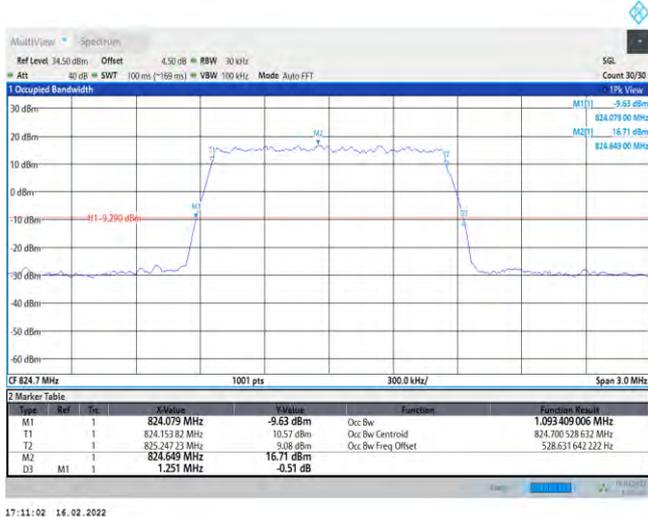


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Band5-1.4MHz-64QAM-20407-6RB#0



17:11:02 16.02.2022

Band5-1.4MHz-64QAM-20525-6RB#0



17:13:13 16.02.2022



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Band5-1.4MHz-64QAM-20643-6RB#0



17:14:38 16.02.2022

Band5-1.4MHz-256QAM-20407-6RB#0



17:11:21 16.02.2022



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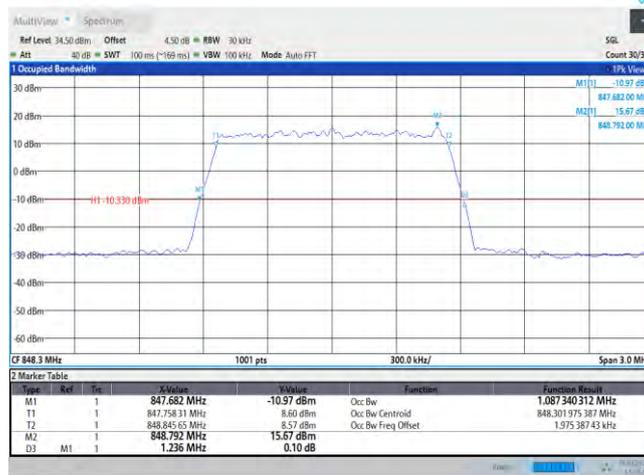
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Band5-1.4MHz-256QAM-20525-6RB#0



17:13:31 16.02.2022

Band5-1.4MHz-256QAM-20643-6RB#0



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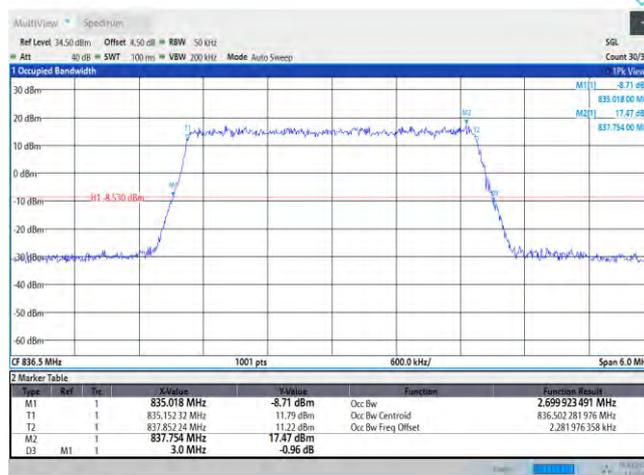
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Band5-3MHz-QPSK-20415-15RB#0



17:15:29 16.02.2022

Band5-3MHz-QPSK-20525-15RB#0



17:16:52 16.02.2022



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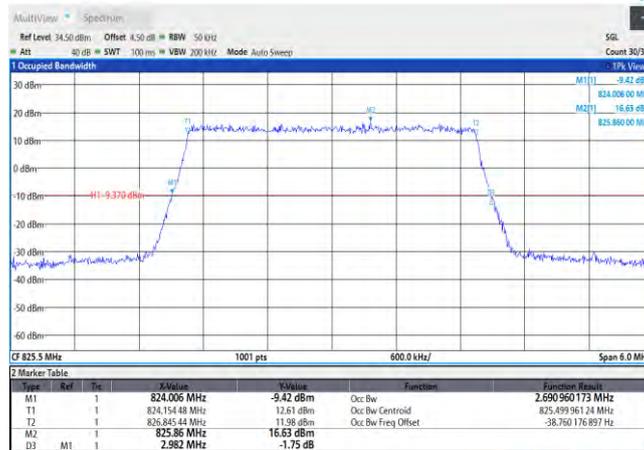
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Band5-3MHz-QPSK-20635-15RB#0



17:20:29 16.02.2022

Band5-3MHz-16QAM-20415-15RB#0



17:18:47 16.02.2022



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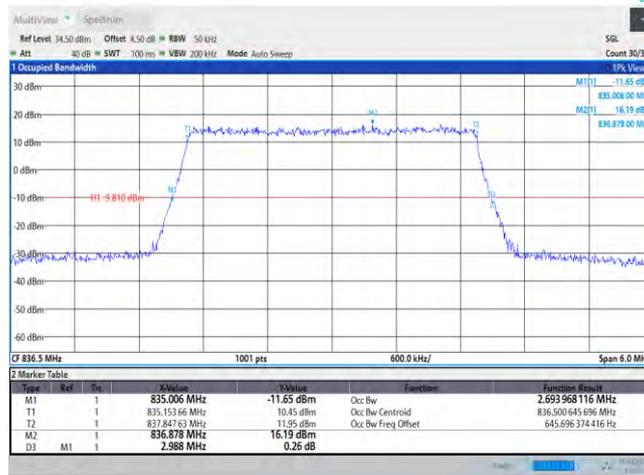
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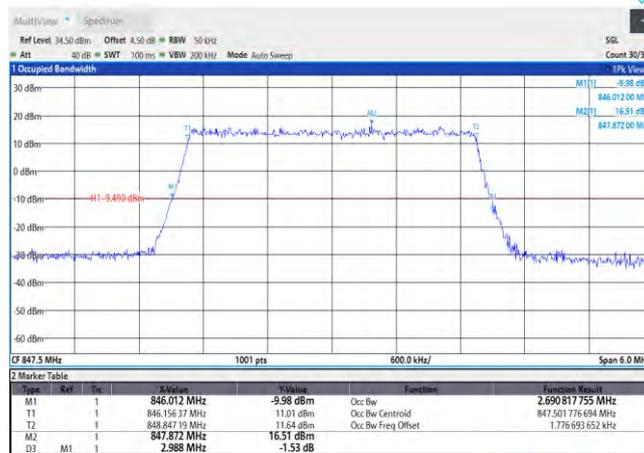
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Band5-3MHz-16QAM-20525-15RB#0



17:17:10 16.02.2022

Band5-3MHz-16QAM-20635-15RB#0



17:20:47 16.02.2022



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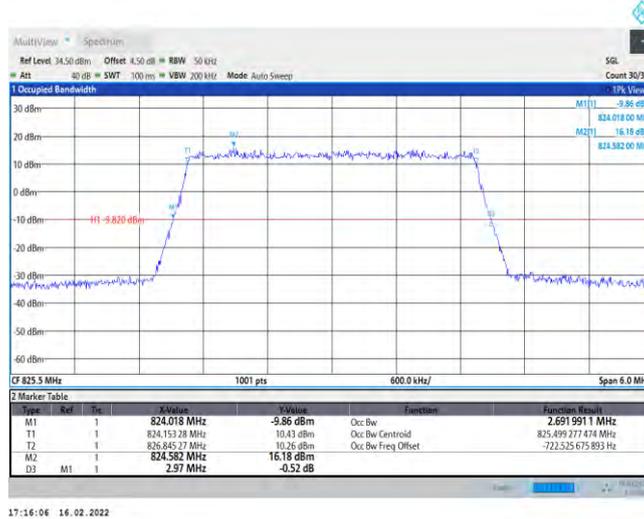
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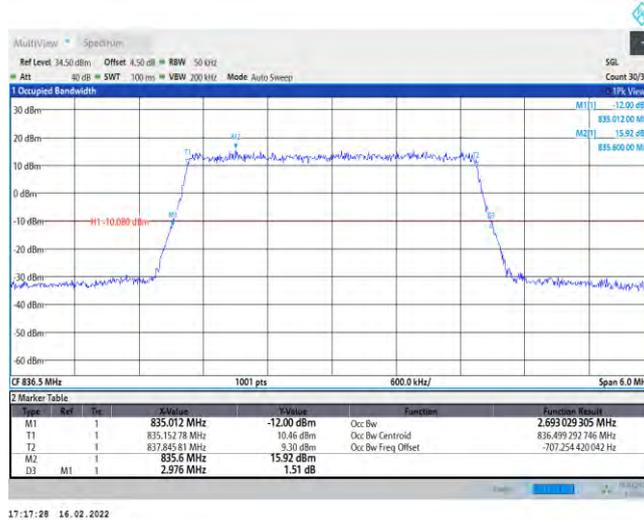
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Band5-3MHz-64QAM-20415-15RB#0



Band5-3MHz-64QAM-20525-15RB#0



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Band5-3MHz-64QAM-20635-15RB#0



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Band5-3MHz-256QAM-20415-15RB#0



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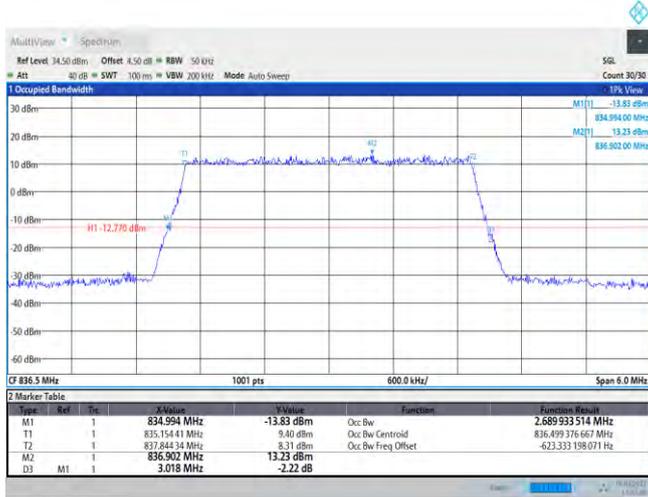


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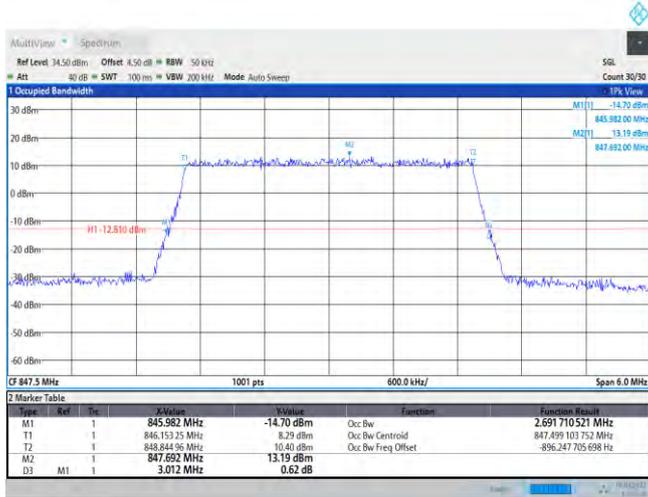
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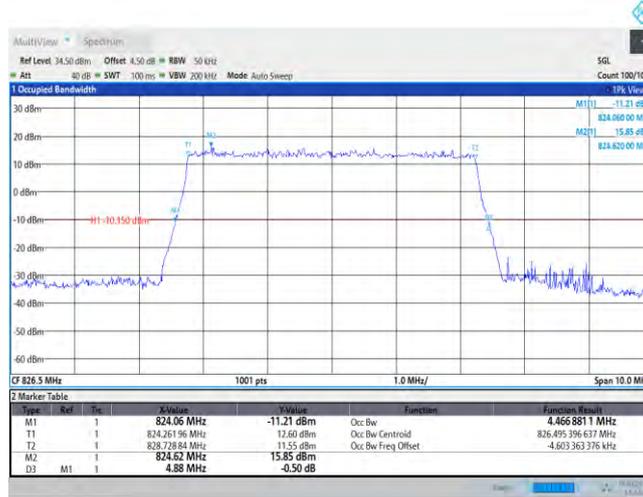
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Band5-5MHz-QPSK-20425-25RB#0



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Band5-5MHz-QPSK-20525-25RB#0



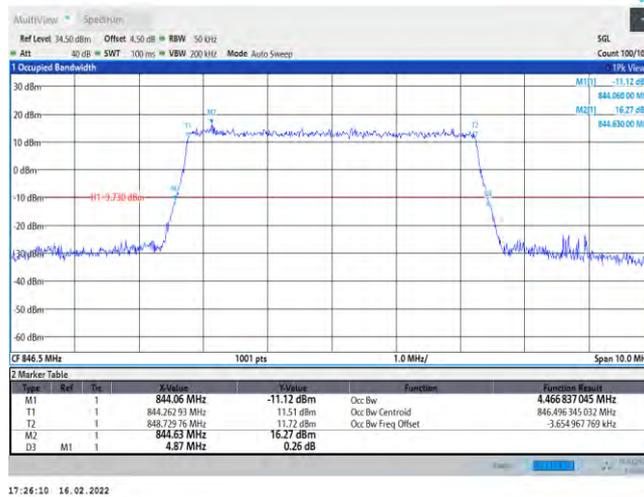
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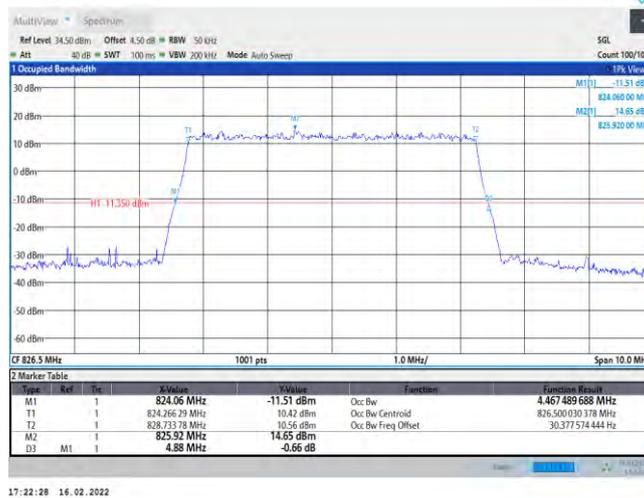
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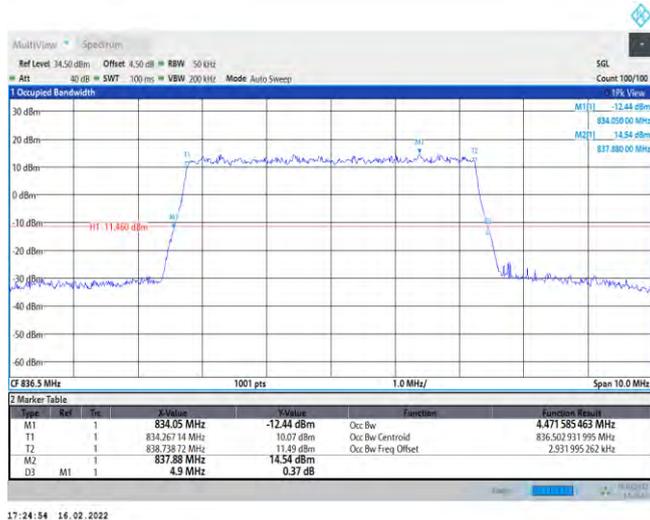


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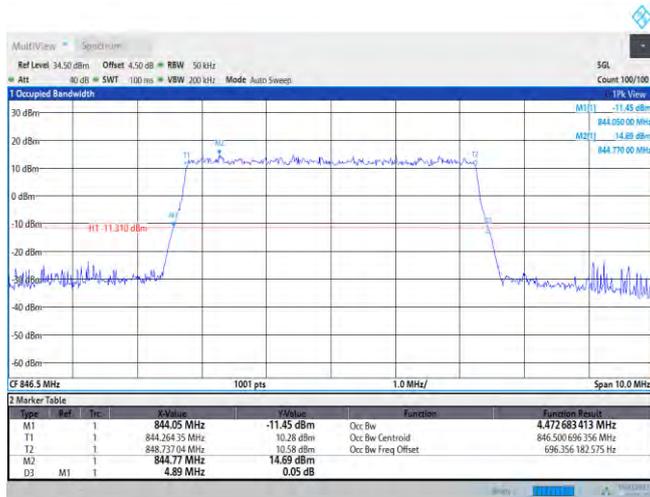
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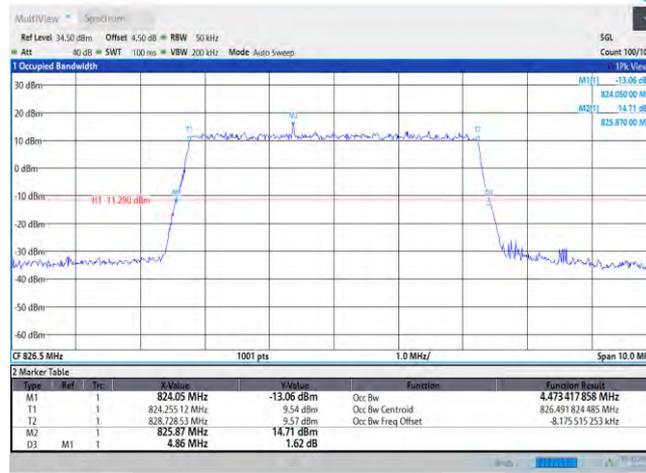
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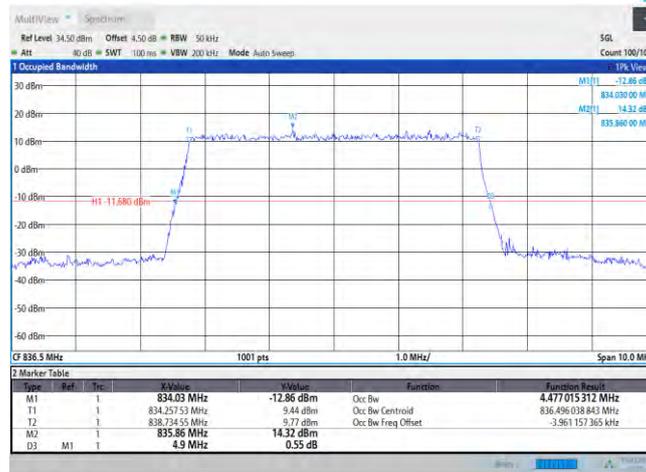
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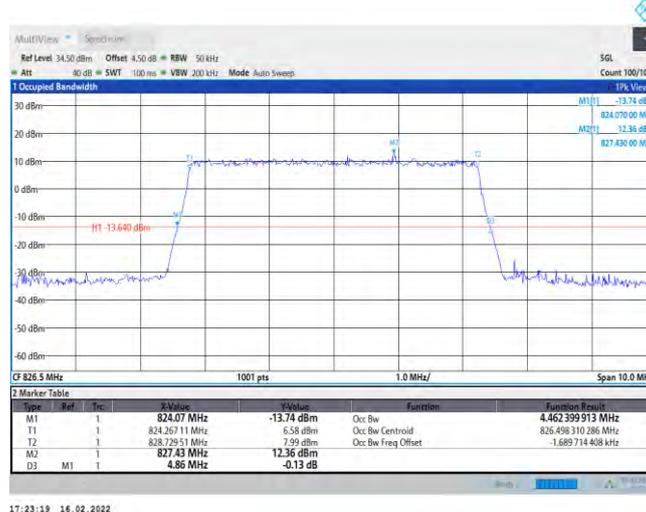
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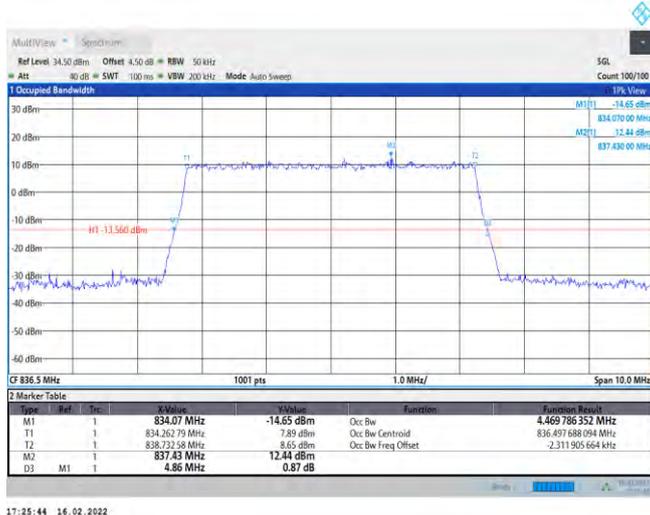
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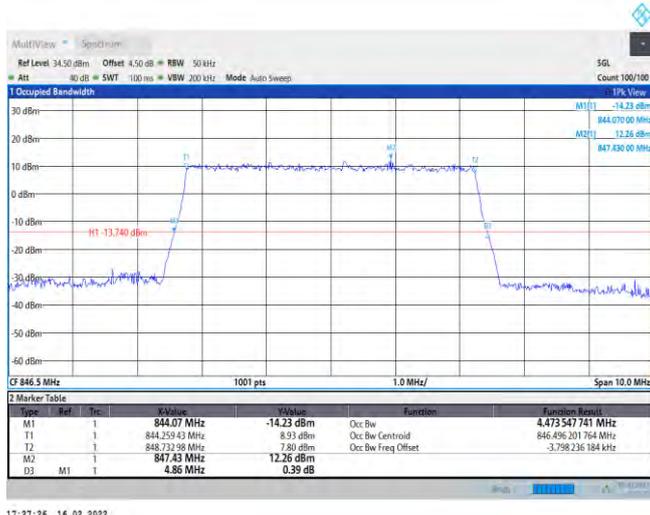
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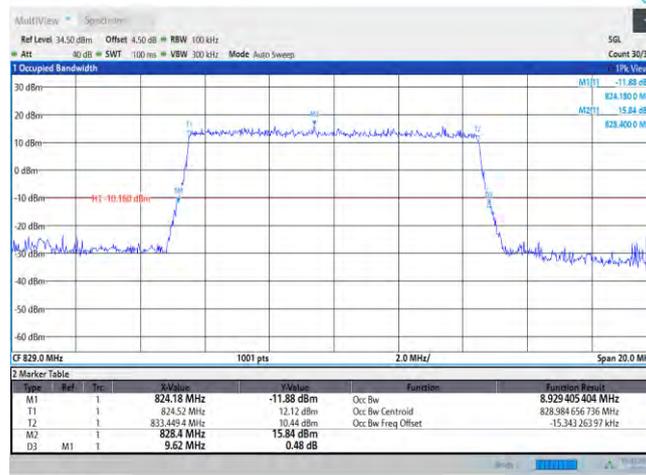


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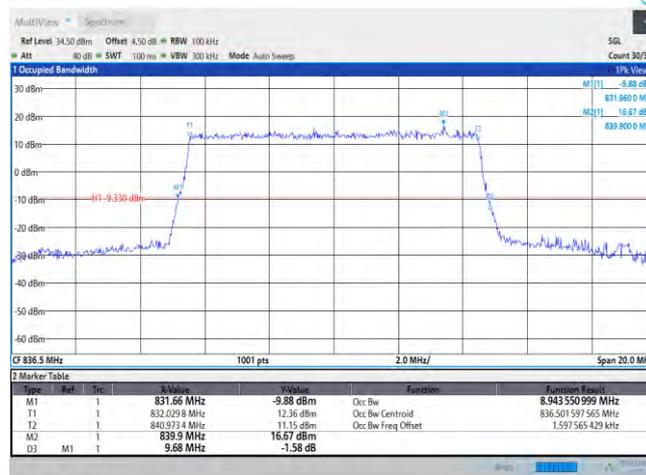
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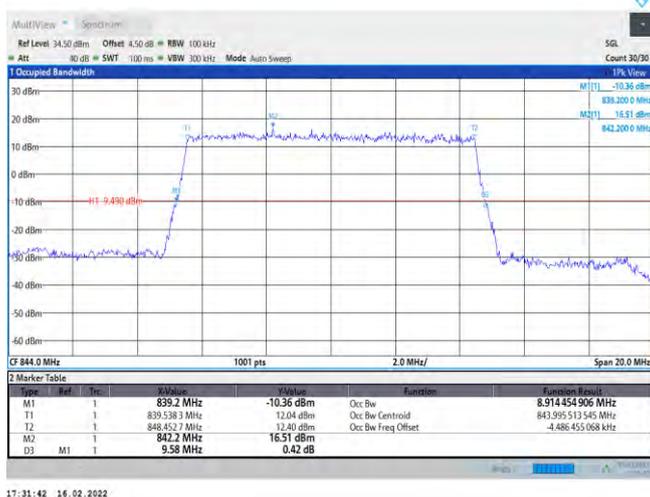


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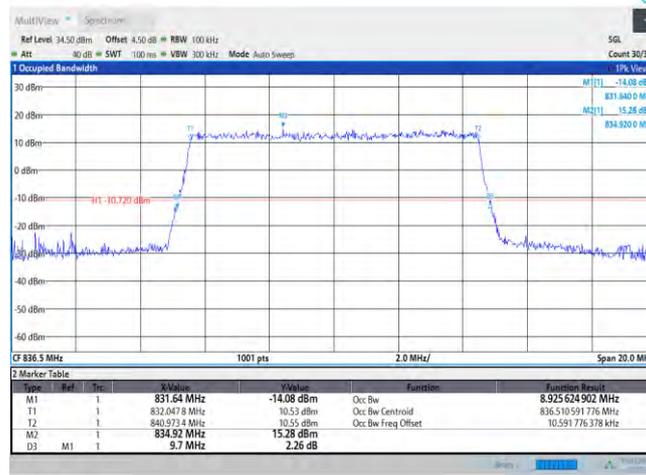


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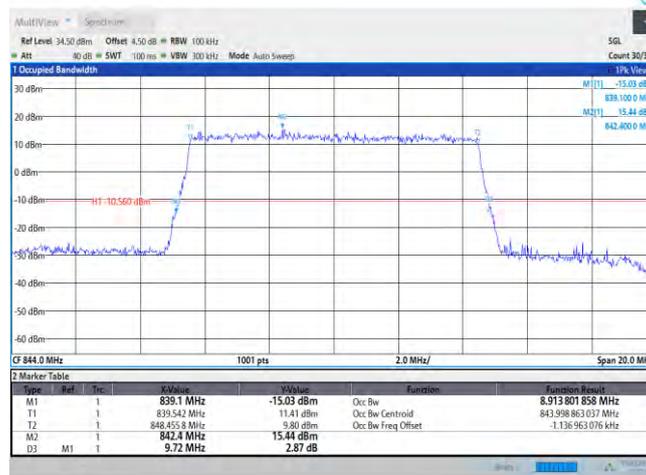
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Band5-10MHz-16QAM-20600-50RB#0



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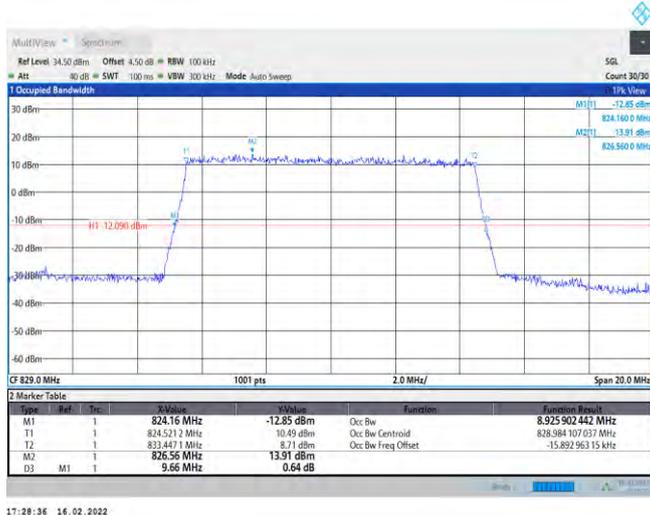
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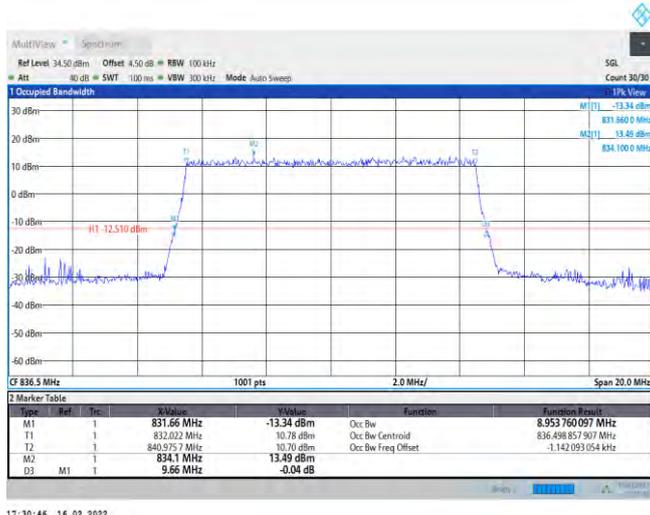
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Band5-10MHz-64QAM-20450-50RB#0



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Band5-10MHz-64QAM-20525-50RB#0



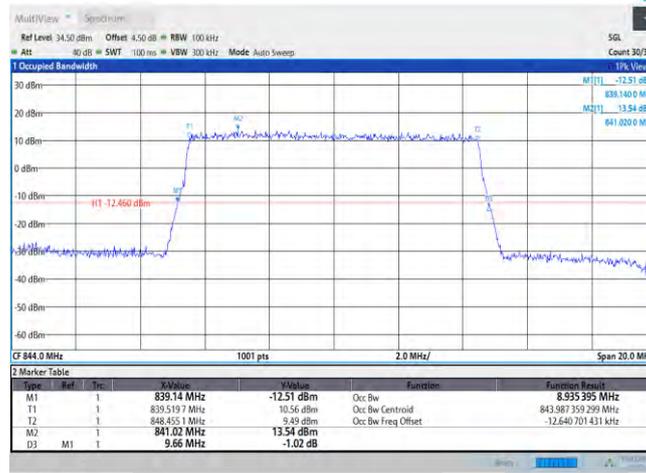
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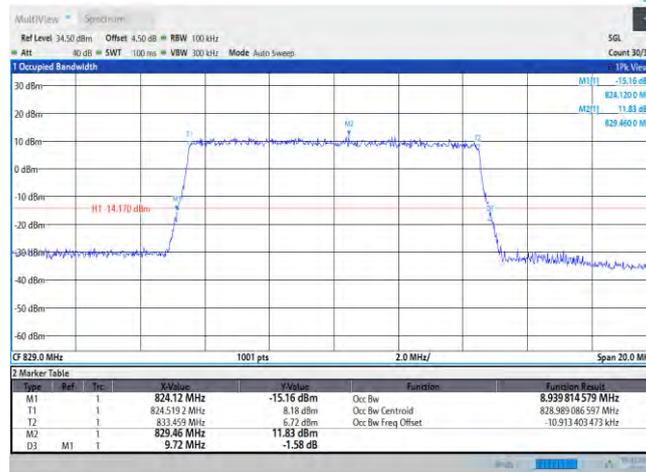
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Band5-10MHz-64QAM-20600-50RB#0



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Band5-10MHz-256QAM-20450-50RB#0



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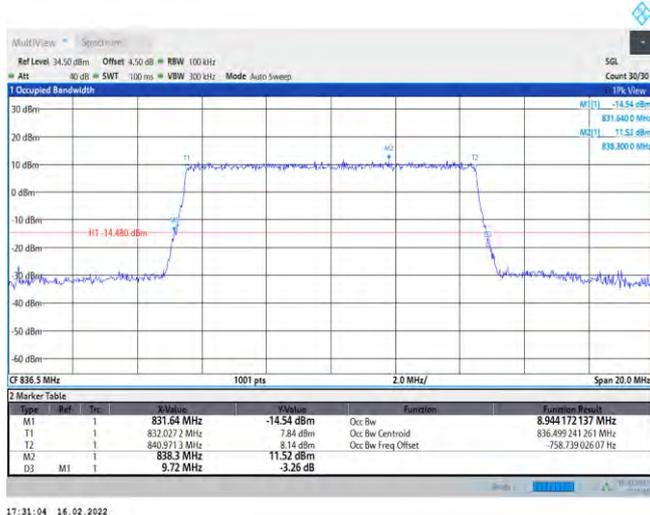
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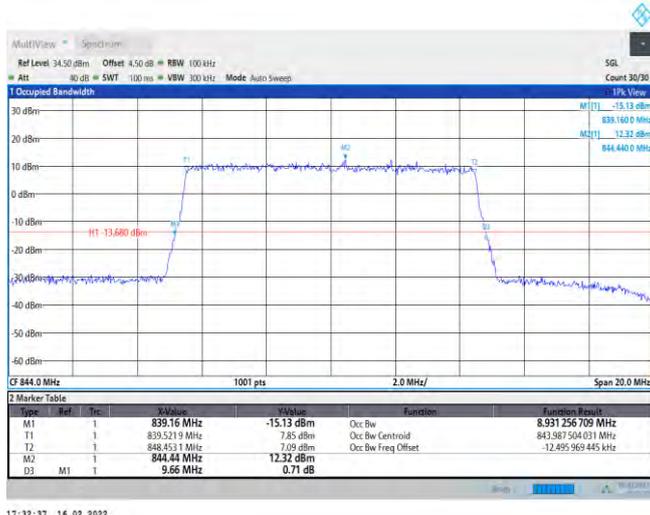
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Band5-10MHz-256QAM-20525-50RB#0



17:31:04 16.02.2022

Band5-10MHz-256QAM-20600-50RB#0



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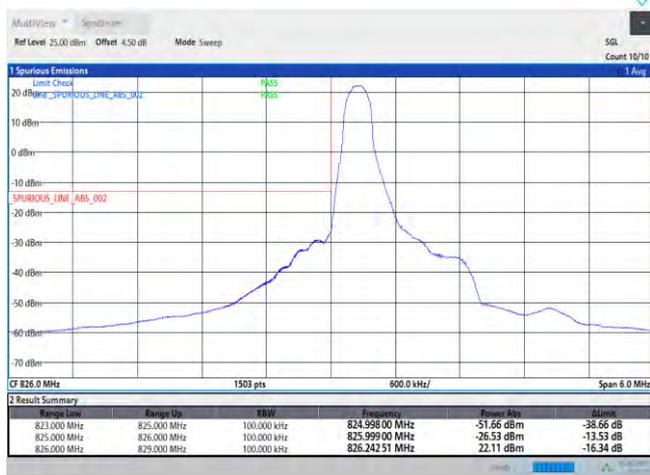
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Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



17:40:12 16.02.2022

Band5-1.4MHz-QPSK-20427-6RB#0



17:43:04 16.02.2022



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Band5-1.4MHz-QPSK-20643-1RB#5



17:46:48 16.02.2022

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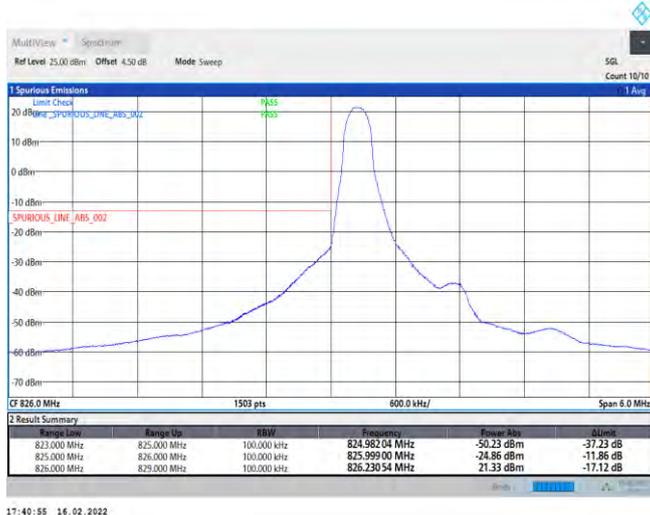
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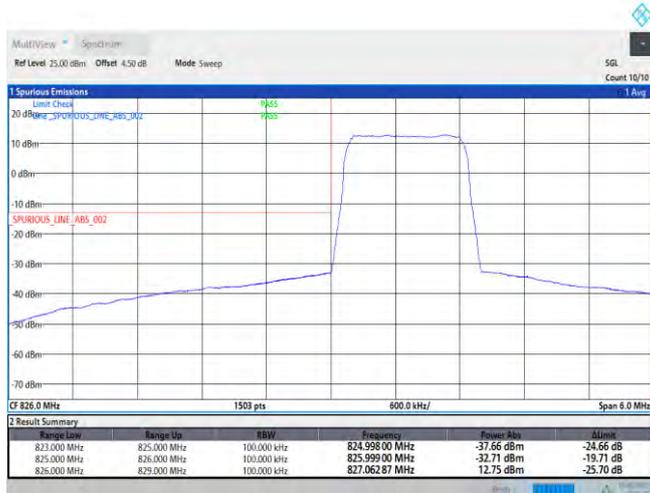
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Band5-1.4MHz-16QAM-20427-1RB#0



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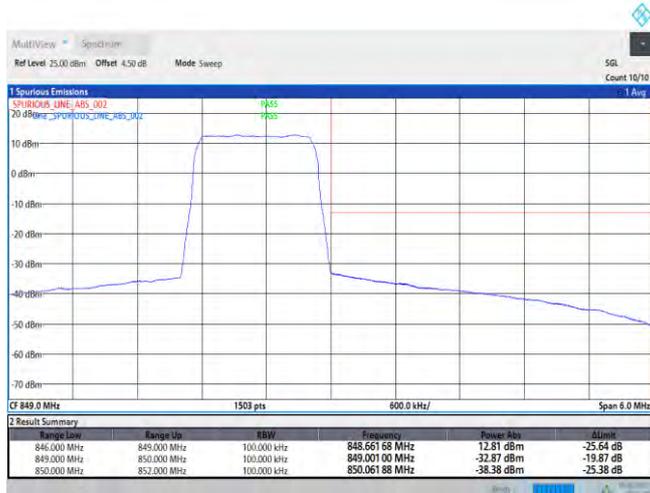
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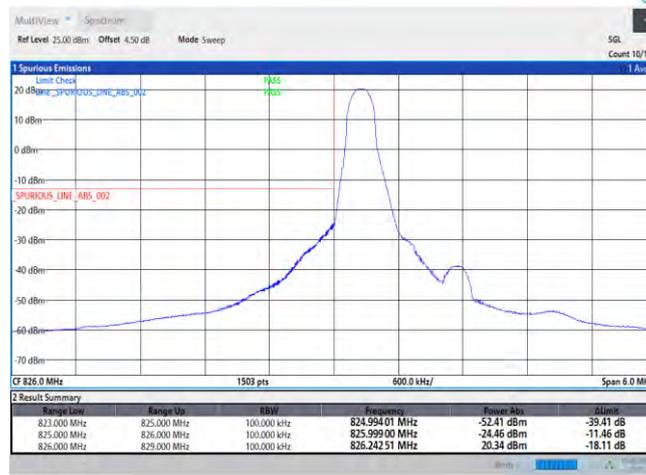


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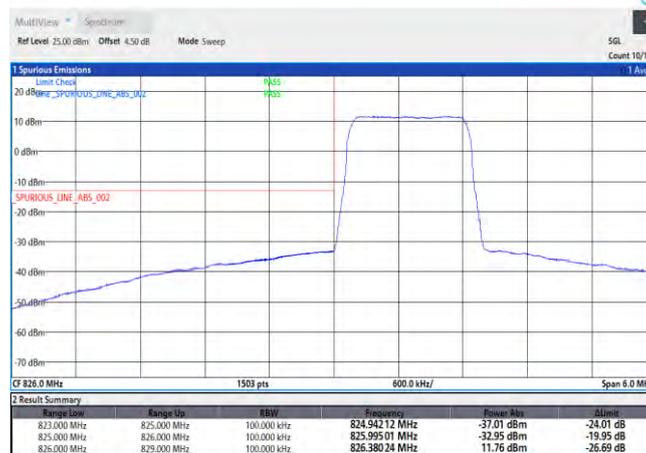
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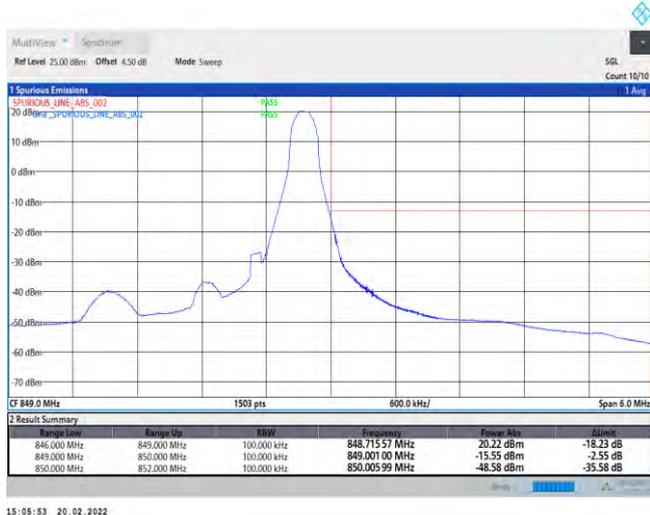
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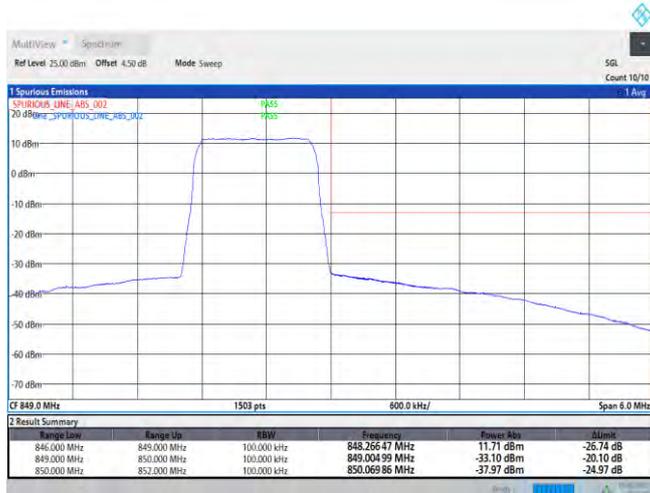
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Band5-1.4MHz-64QAM-20643-1RB#5



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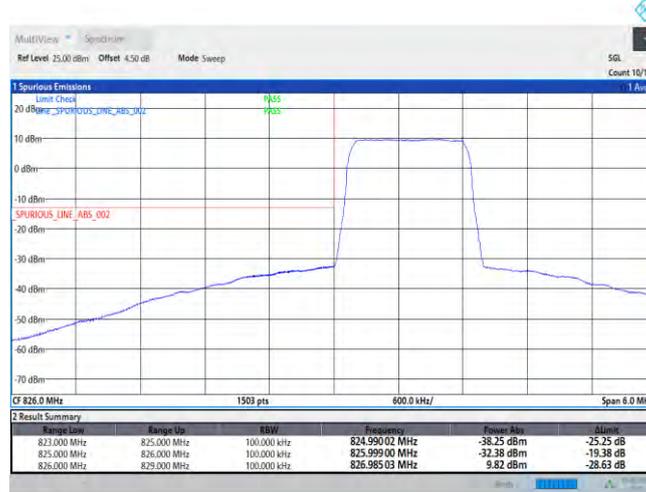
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17:45:13 16.02.2022

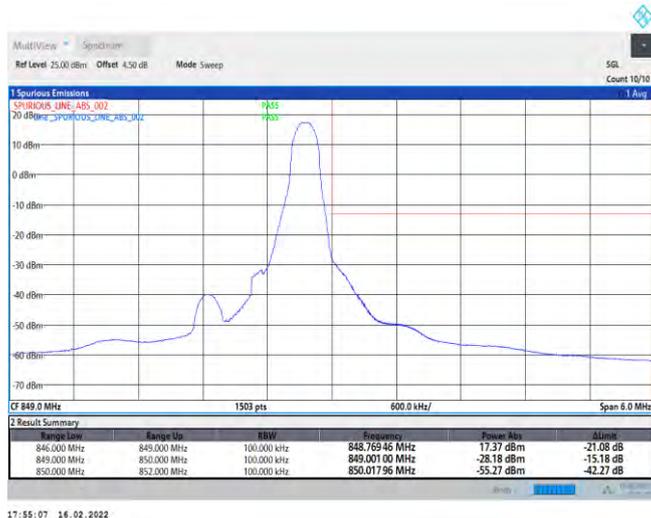


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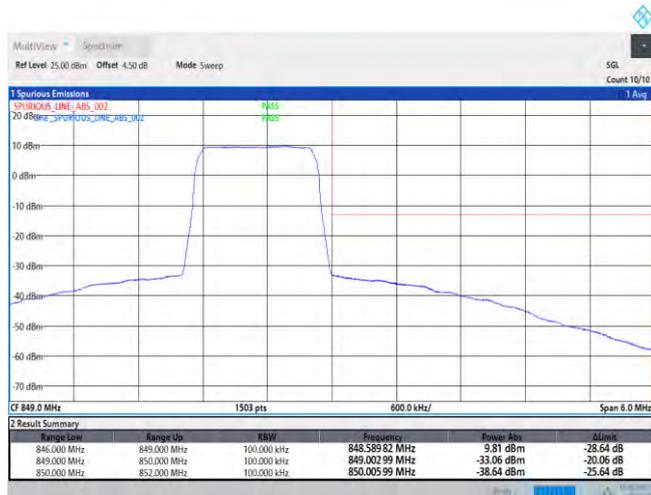
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17:58:00 16.02.2022

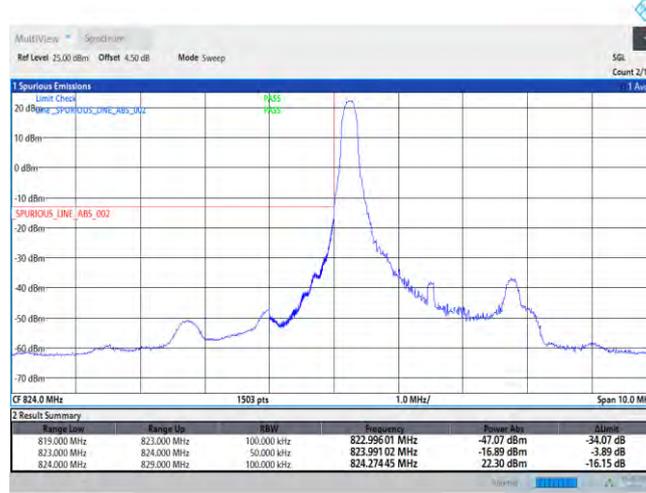


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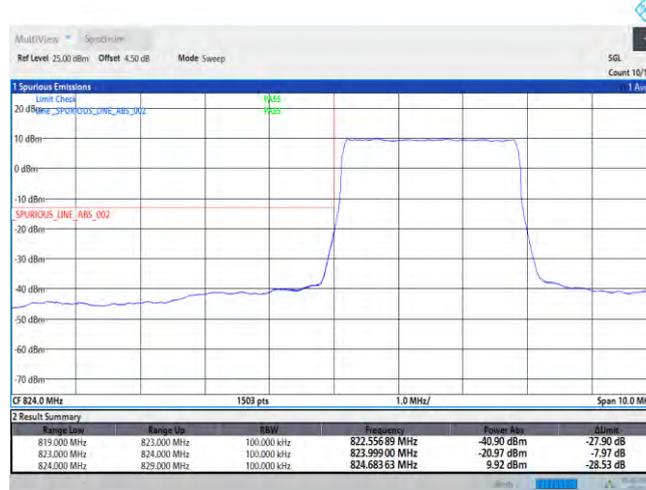
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Band5-3MHz-QPSK-20415-1RB#0



18:51:38 16.02.2022

Band5-3MHz-QPSK-20415-15RB#0



18:01:57 16.02.2022



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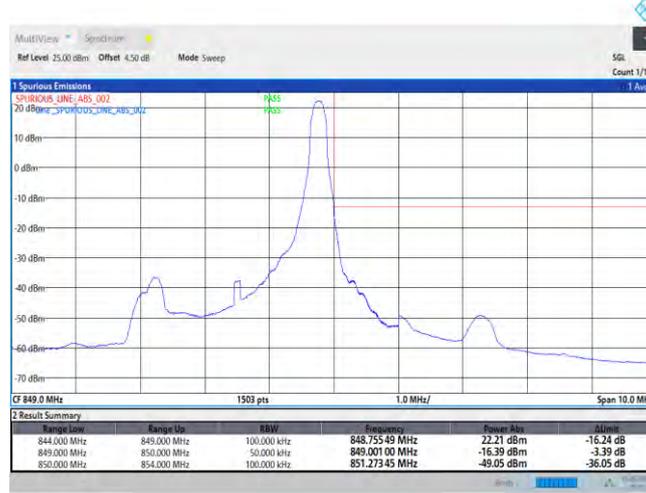
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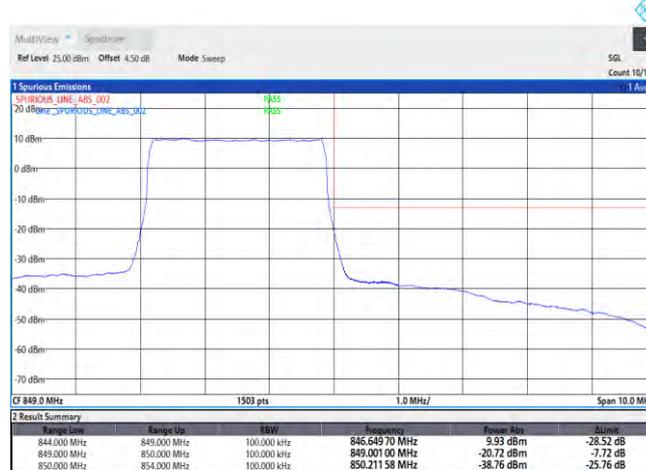
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Band5-3MHz-QPSK-20635-1RB#14



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Band5-3MHz-QPSK-20635-15RB#0



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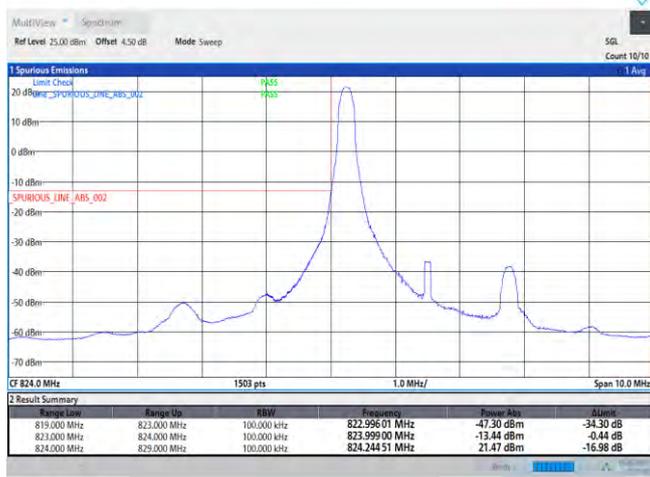


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Band5-3MHz-16QAM-20415-1RB#0



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Band5-3MHz-16QAM-20415-15RB#0



18:02:42 16.02.2022

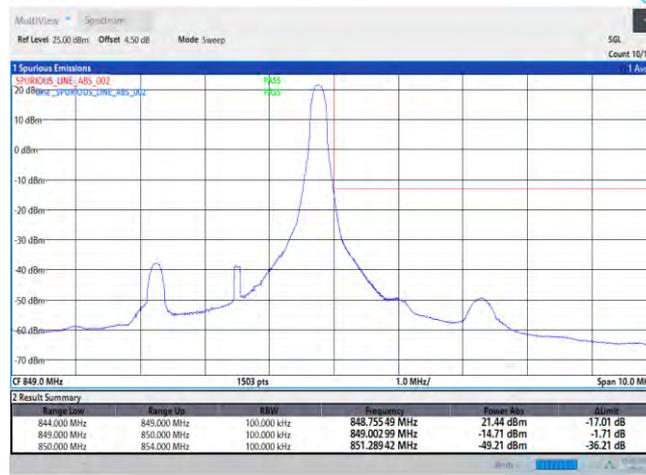


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Band5-3MHz-16QAM-20635-1RB#14



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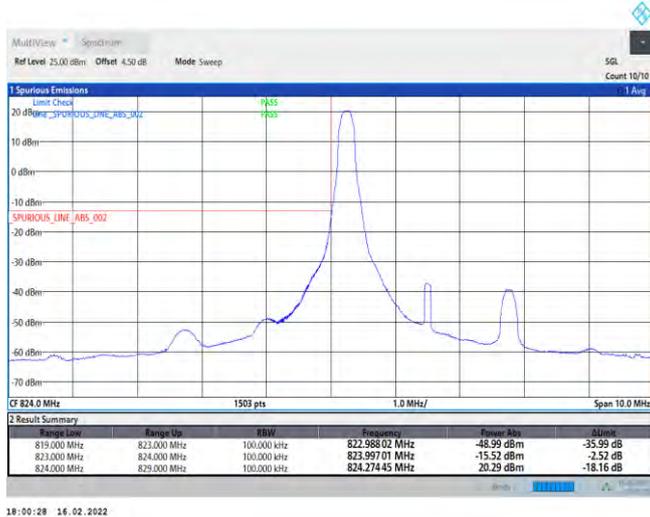
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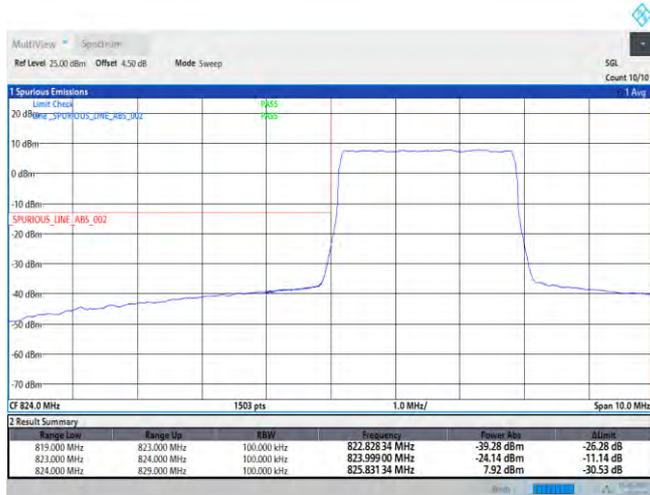
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Band5-3MHz-64QAM-20415-1RB#0



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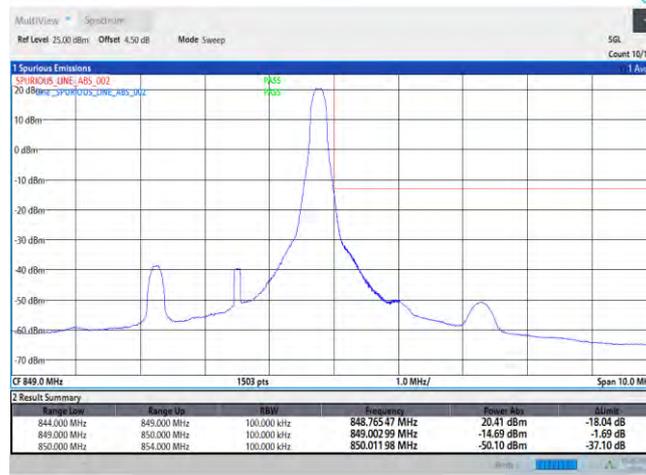
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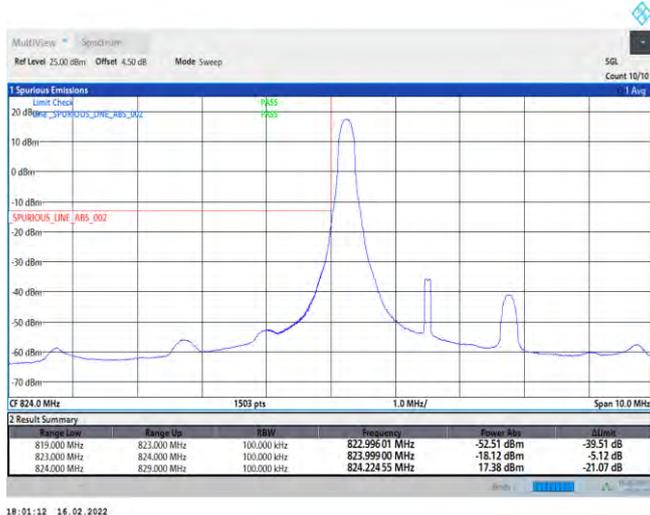
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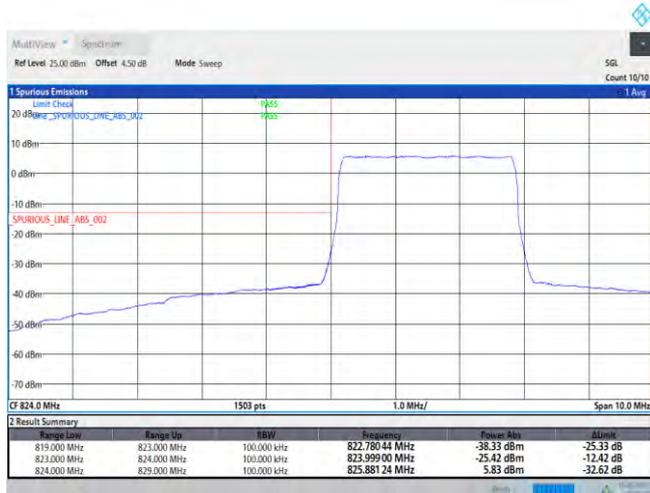
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Band5-3MHz-256QAM-20415-1RB#0



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Band5-3MHz-256QAM-20415-15RB#0



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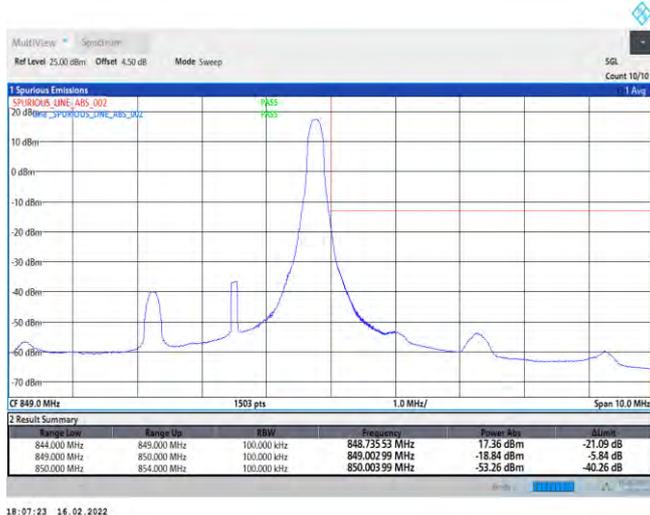


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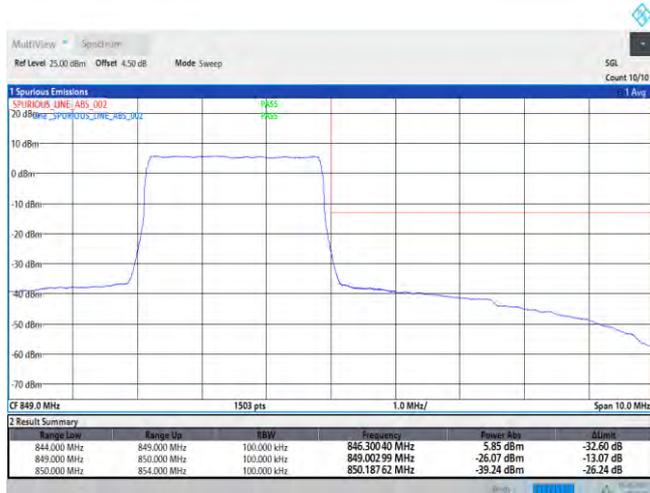
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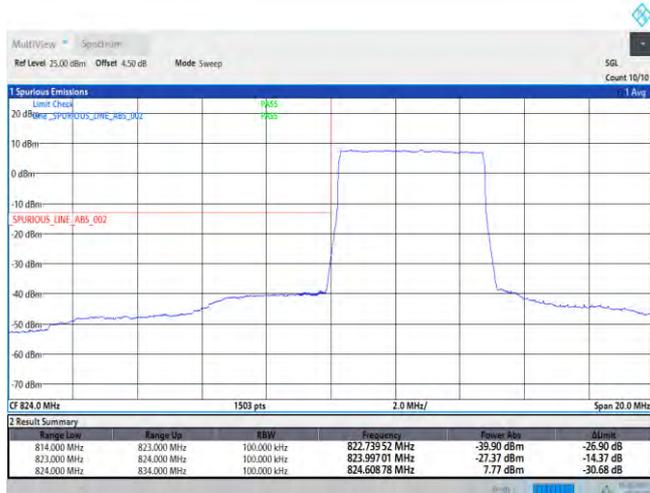
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Band5-5MHz-QPSK-20425-1RB#0



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Band5-5MHz-QPSK-20425-25RB#0



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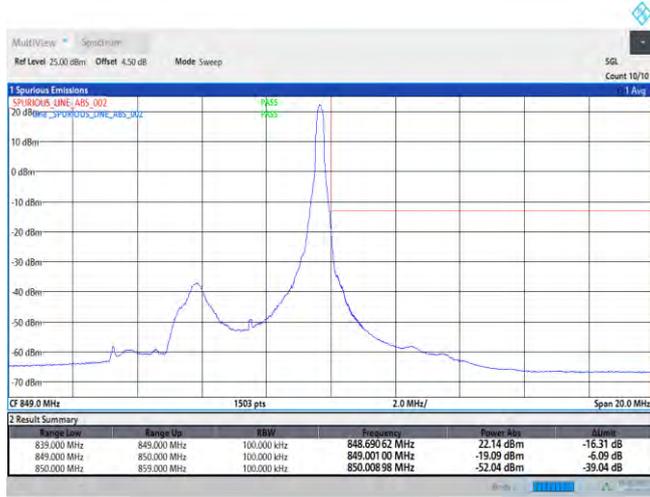


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Band5-5MHz-QPSK-20625-1RB#24



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Band5-5MHz-QPSK-20625-25RB#0



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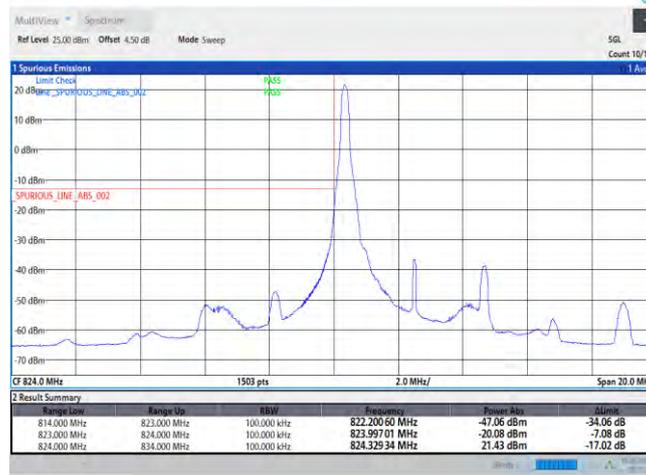


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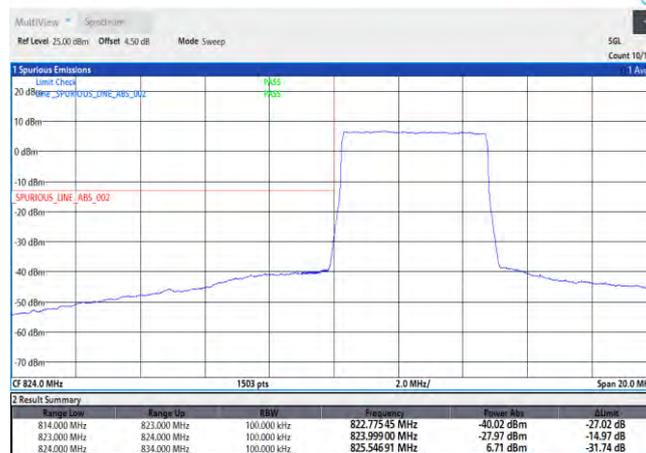
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18:14:52 16.02.2022



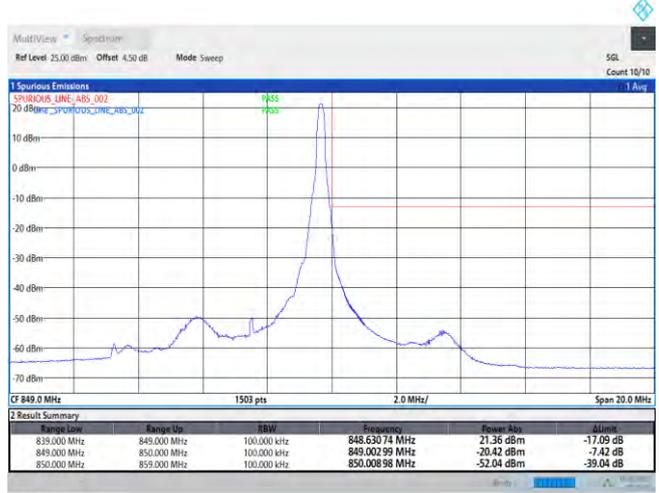
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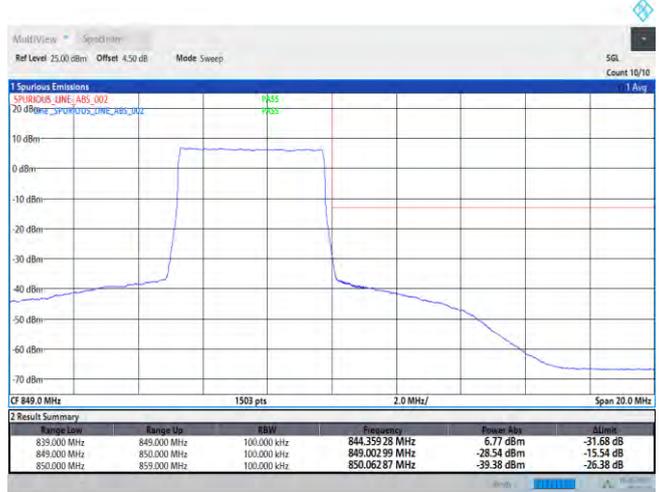
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Band5-5MHz-16QAM-20625-25RB#0



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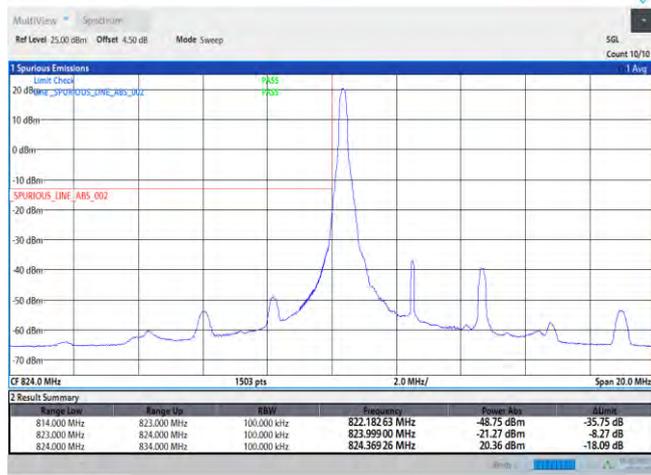


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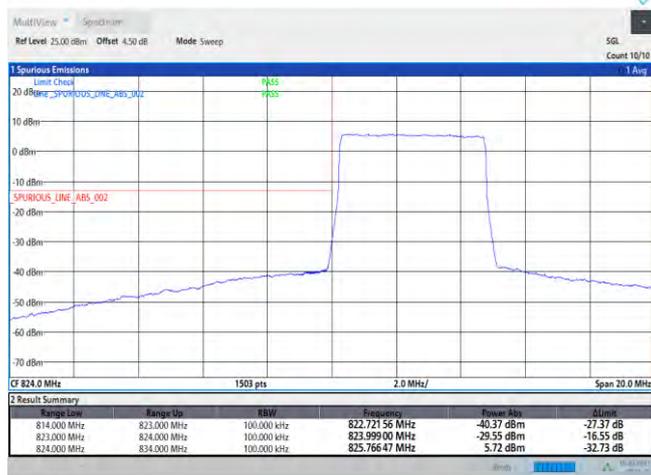
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18:12:42 16.02.2022

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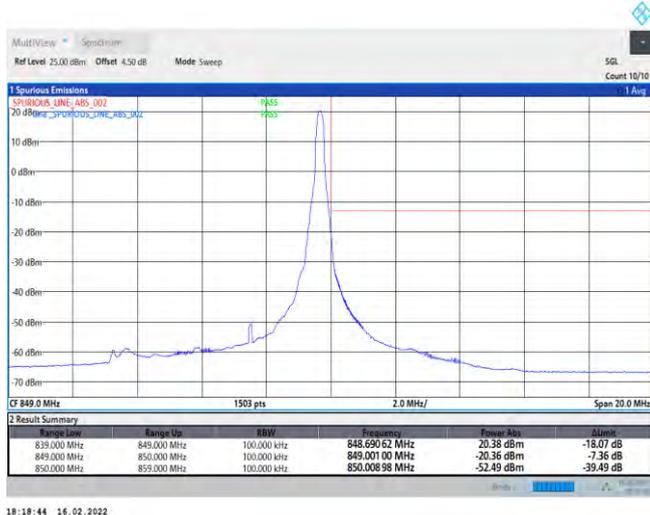


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Band5-5MHz-64QAM-20625-1RB#24



18:18:44 16.02.2022

Band5-5MHz-64QAM-20625-25RB#0



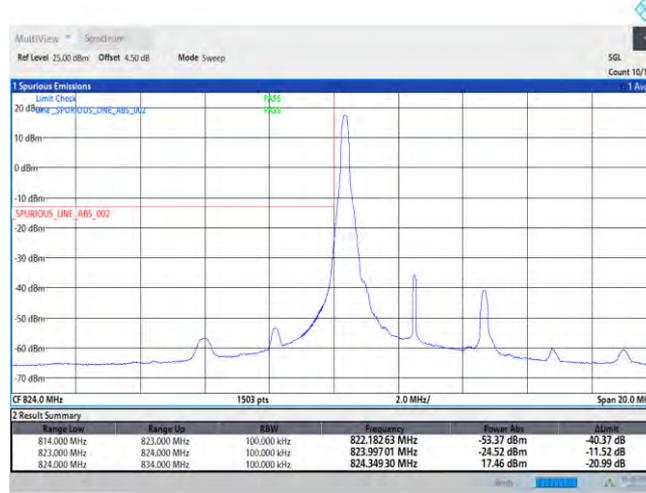
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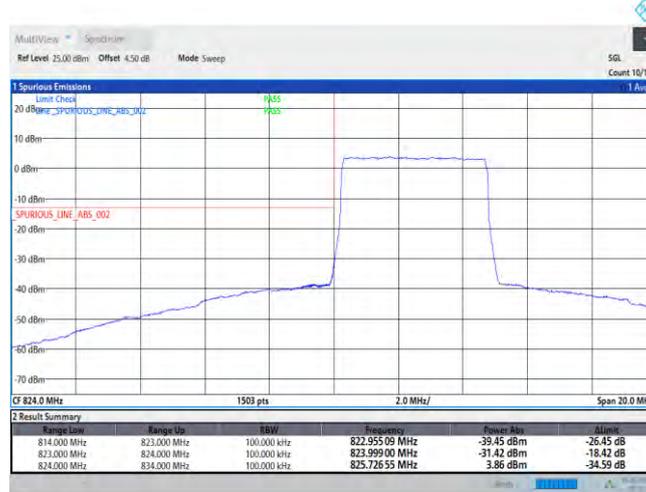
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Band5-5MHz-256QAM-20425-1RB#0



18:13:26 16.02.2022

Band5-5MHz-256QAM-20425-25RB#0



18:16:19 16.02.2022

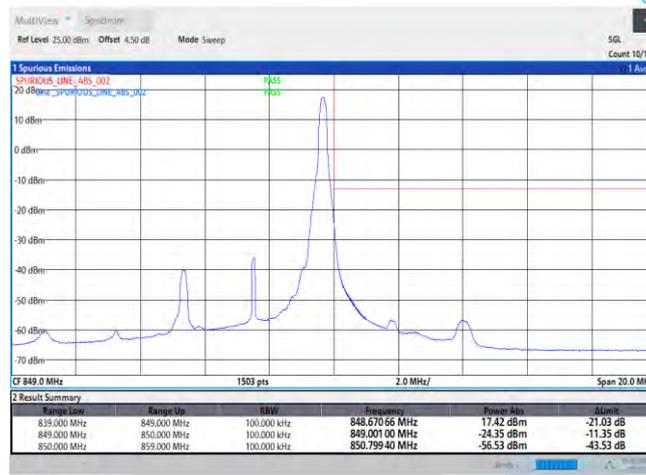


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Band5-5MHz-256QAM-20625-1RB#24



18:19:27 16.02.2022

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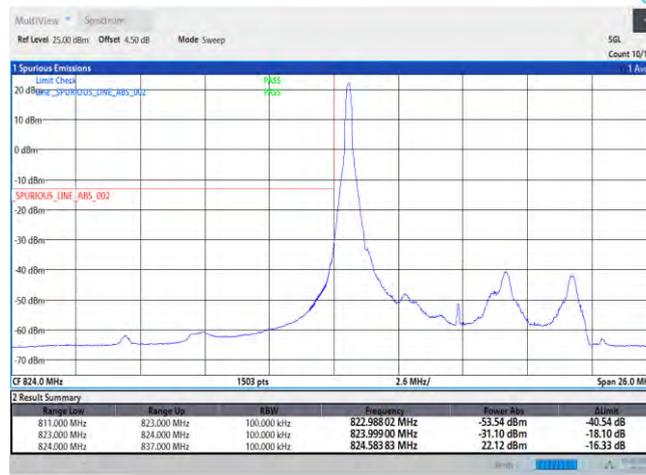
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Band5-10MHz-QPSK-20450-1RB#0



18:23:22 16.02.2022

Band5-10MHz-QPSK-20450-50RB#0



18:26:15 16.02.2022



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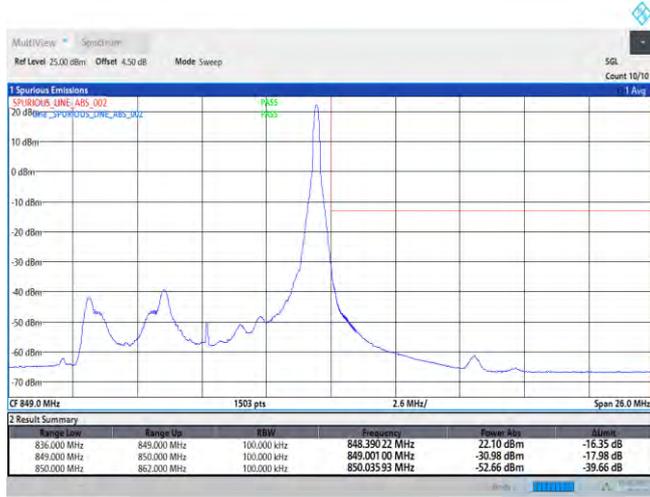
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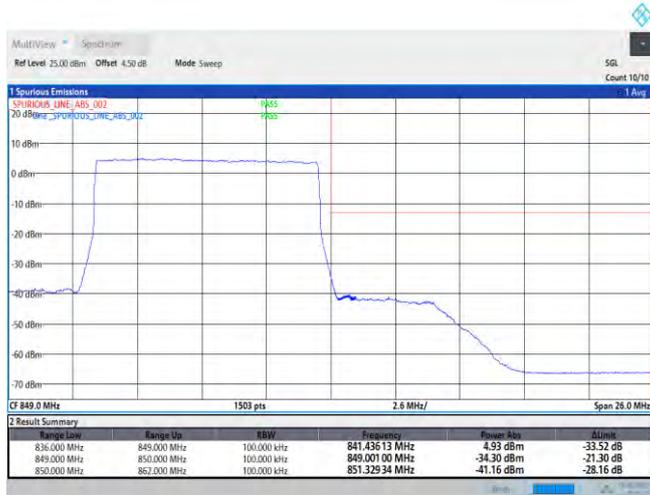
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Band5-10MHz-QPSK-20600-1RB#49



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Band5-10MHz-QPSK-20600-50RB#0



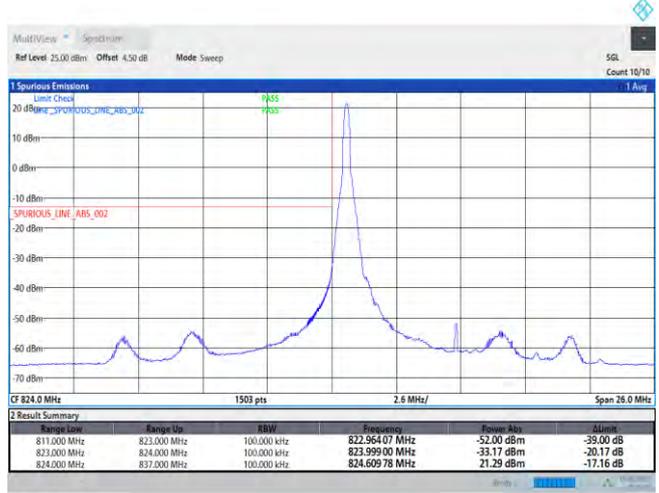
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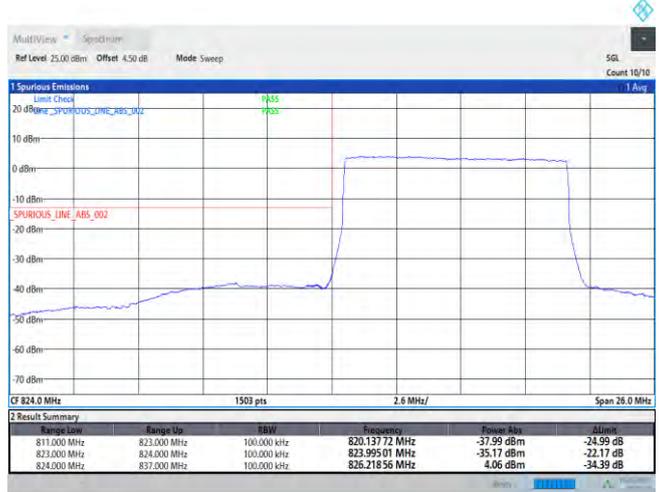
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Band5-10MHz-16QAM-20450-1RB#0



18:24:05 16.02.2022

Band5-10MHz-16QAM-20450-50RB#0



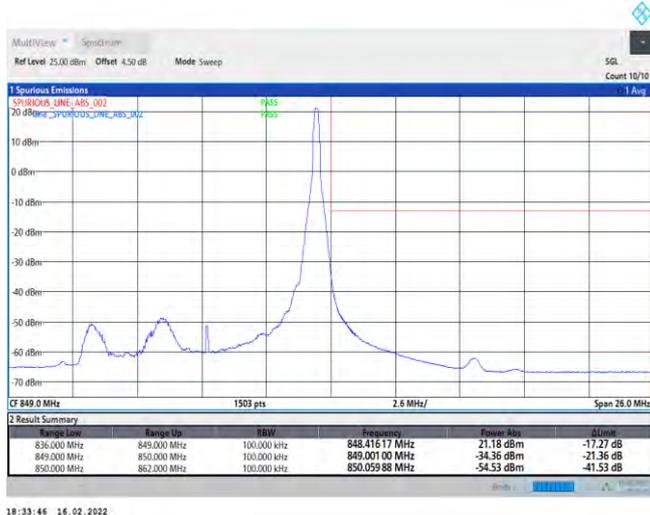
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Band5-10MHz-16QAM-20600-1RB#49



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Band5-10MHz-16QAM-20600-50RB#0



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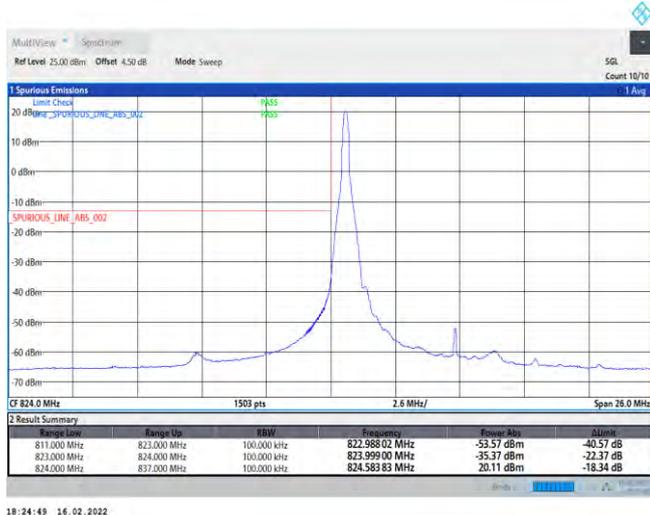


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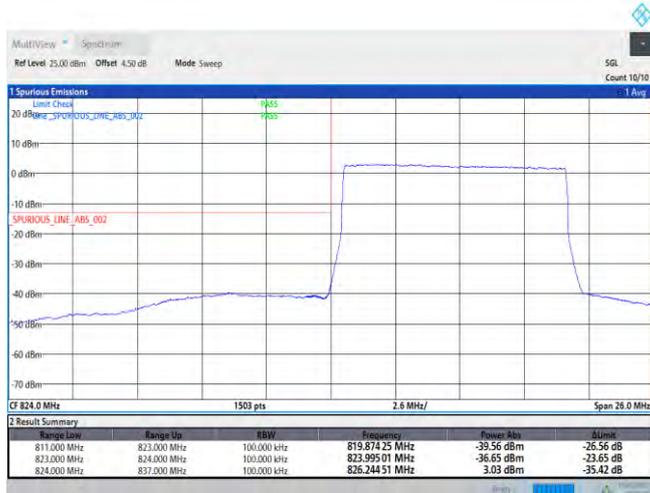
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Band5-10MHz-64QAM-20450-1RB#0



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Band5-10MHz-64QAM-20450-50RB#0



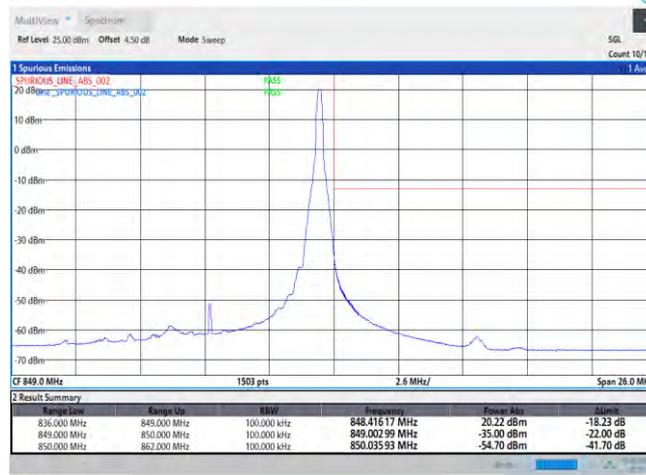
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Band5-10MHz-64QAM-20600-1RB#49



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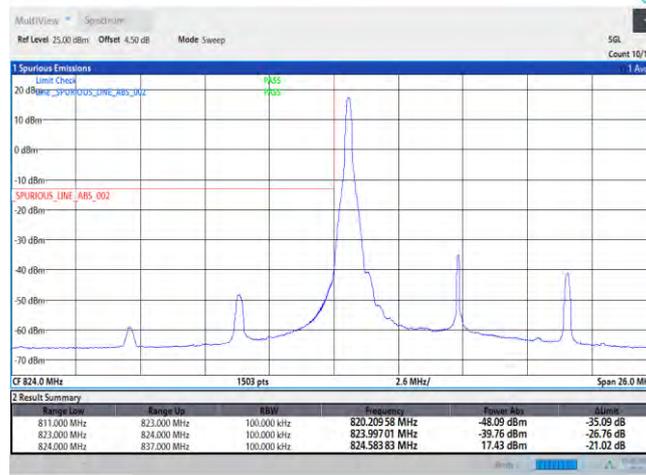
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Band5-10MHz-256QAM-20450-1RB#0



18:25:32 16.02.2022

Band5-10MHz-256QAM-20450-50RB#0



18:28:25 16.02.2022

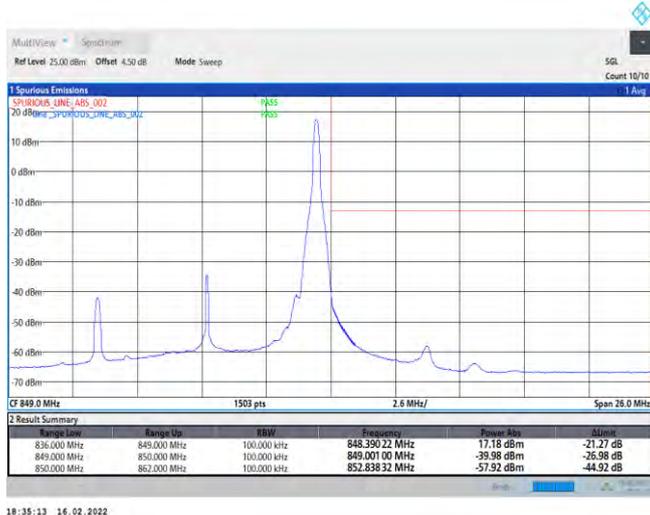


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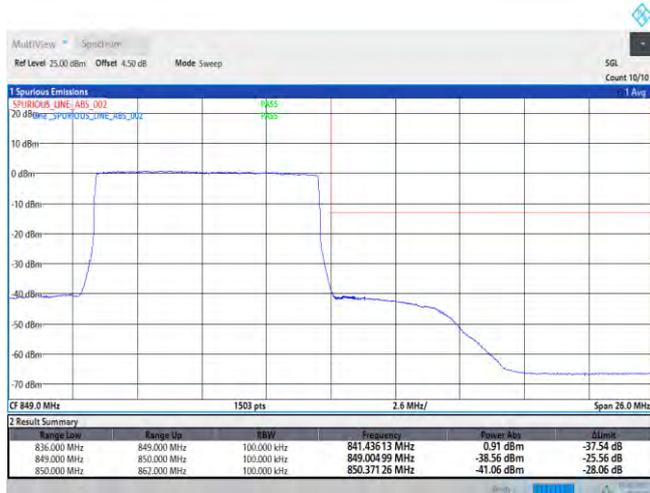
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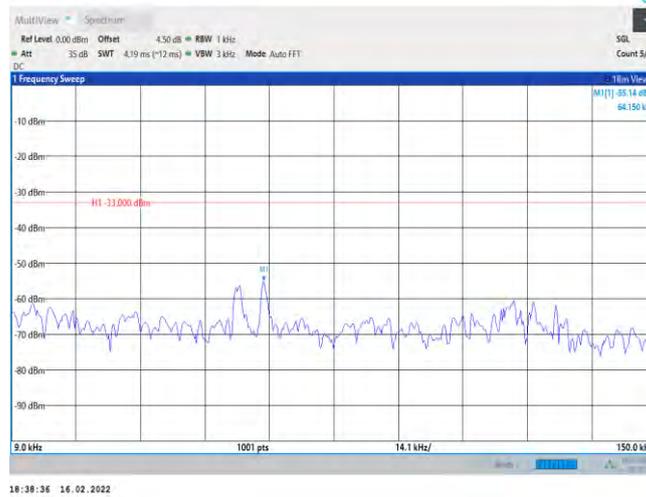
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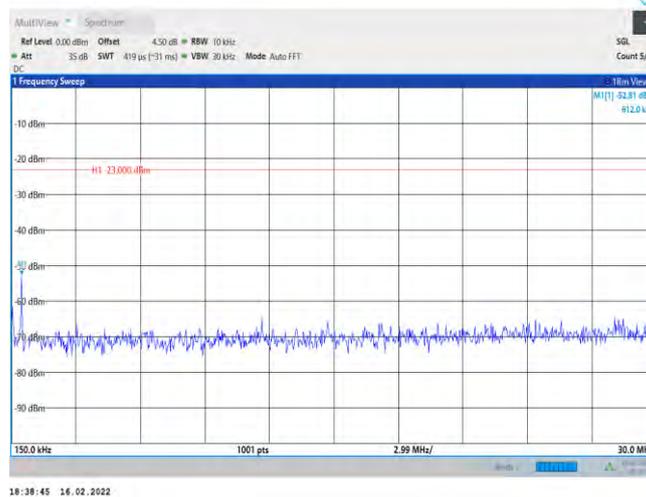
Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



18:38:36 16.02.2022

Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



18:38:45 16.02.2022



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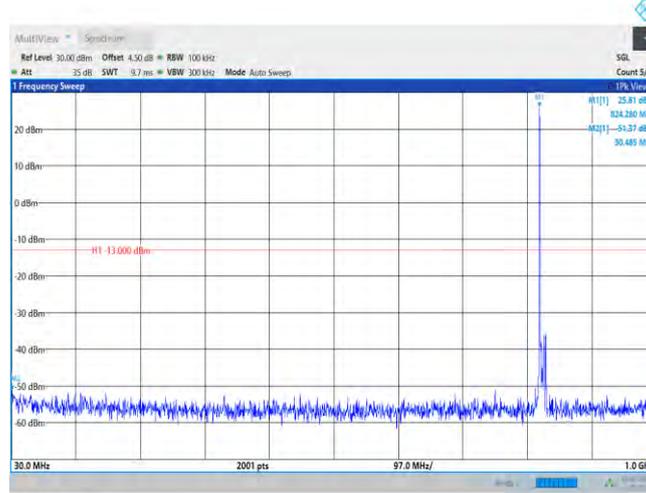
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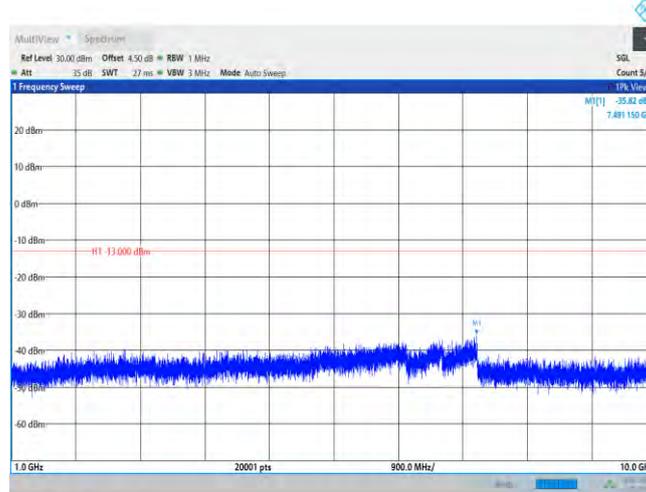
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



18:38:54 16.02.2022

Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



18:39:02 16.02.2022

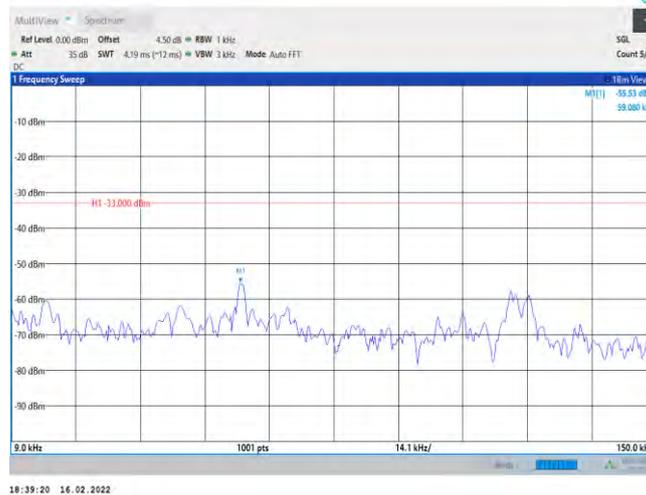


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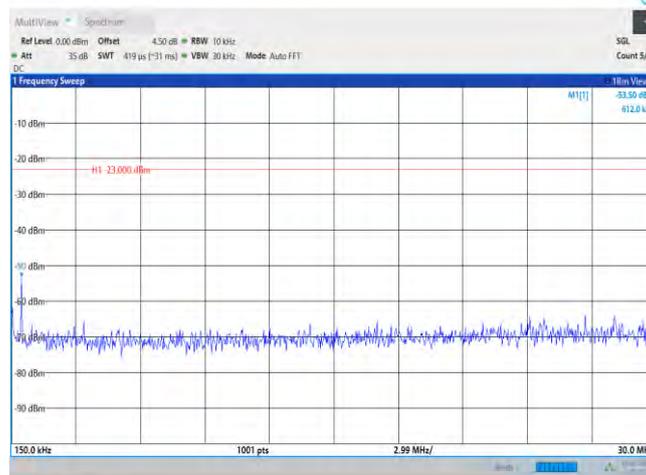
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



18:39:20 16.02.2022

Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



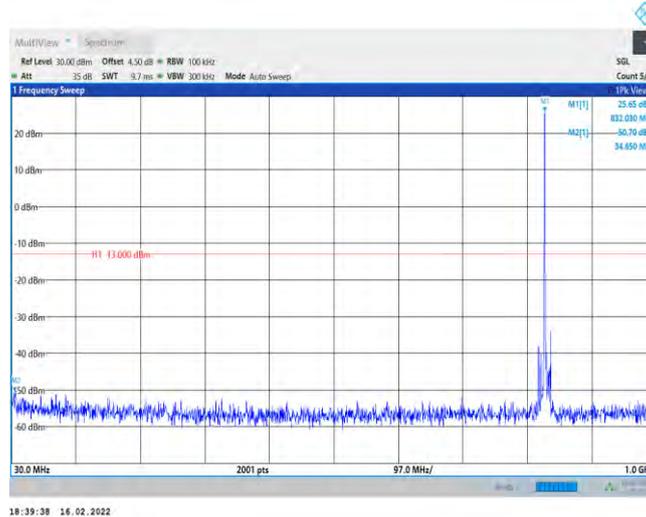
18:39:29 16.02.2022



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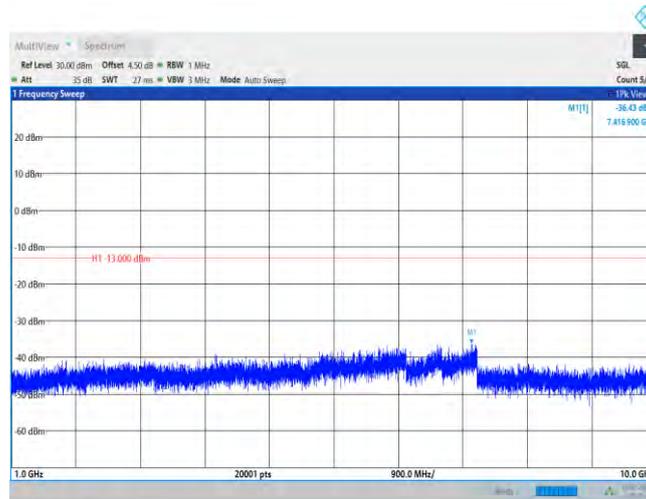
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



18:39:38 16.02.2022

Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



18:39:46 16.02.2022

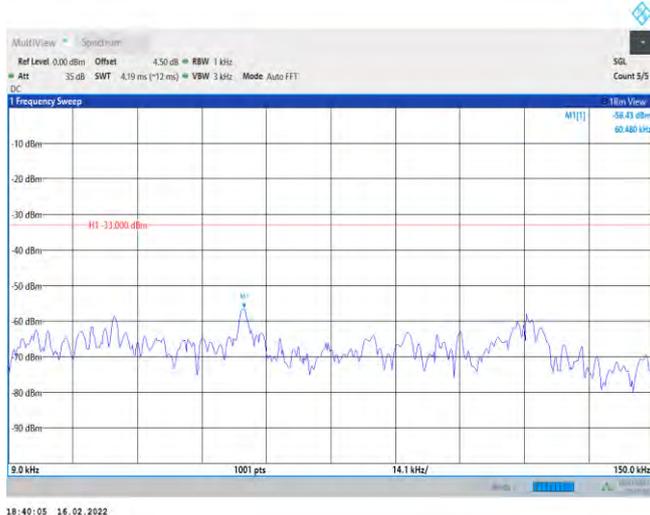


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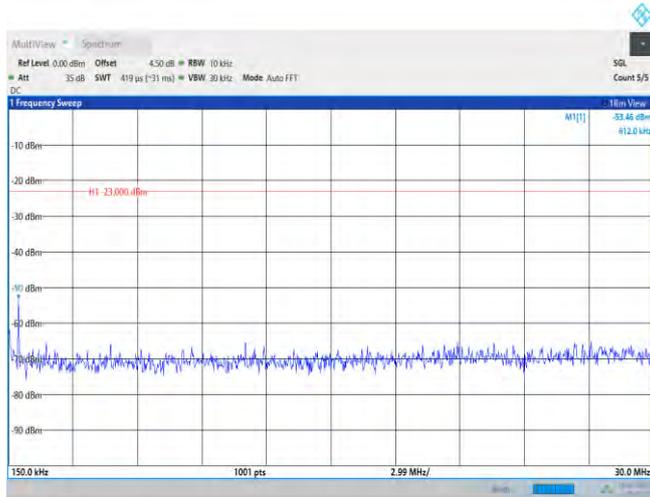
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



18:40:05 16.02.2022

Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



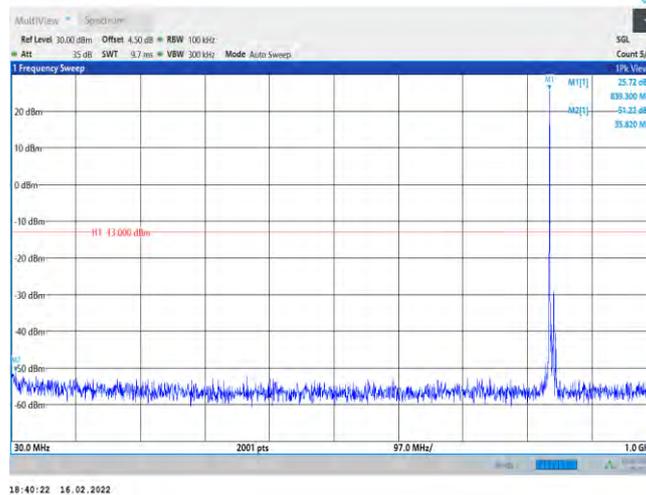
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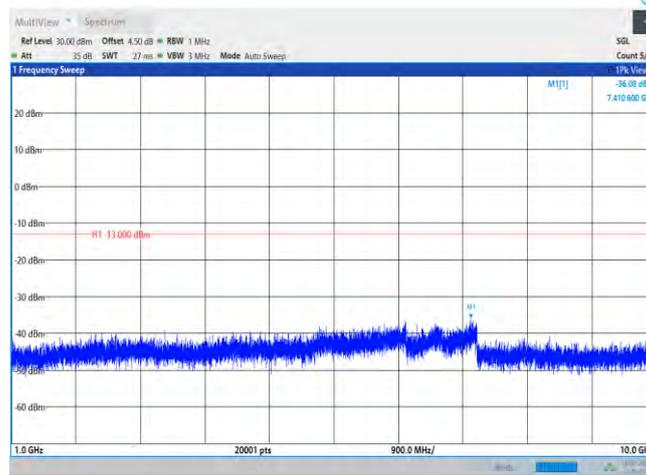
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band =LTE Band 5_ TM1 ANT1

Test Channel =Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	70.61	-118.07	-47.46	-13.00	34.46	223	204	Horizontal
2	2473.77	51.84	-114.37	-62.53	-13.00	49.53	266	99	Horizontal
3	3298.36	50.48	-111.89	-61.41	-13.00	48.41	245	110	Horizontal
4	4122.95	48.19	-109.80	-61.61	-13.00	48.61	288	162	Horizontal
5	4947.54	50.46	-107.87	-57.41	-13.00	44.41	297	152	Horizontal
6	5772.13	49.39	-105.31	-55.92	-13.00	42.92	178	2	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	63.64	-118.07	-54.43	-13.00	41.43	285	303	Vertical
2	2473.77	51.67	-114.37	-62.70	-13.00	49.70	144	56	Vertical
3	3298.36	50.33	-111.89	-61.56	-13.00	48.56	200	359	Vertical
4	4122.95	48.91	-109.80	-60.89	-13.00	47.89	236	272	Vertical
5	4947.54	50.10	-107.87	-57.77	-13.00	44.77	250	111	Vertical
6	5772.13	49.57	-105.31	-55.74	-13.00	42.74	180	314	Vertical



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Test Band =LTE Band 5_ TM1 ANT1

Test Channel =Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	68.39	-118.03	-49.64	-13.00	36.64	159	204	Horizontal
2	2496.27	51.36	-114.12	-62.76	-13.00	49.76	117	77	Horizontal
3	3328.36	50.58	-111.95	-61.37	-13.00	48.37	128	56	Horizontal
4	4160.45	50.28	-109.62	-59.34	-13.00	46.34	138	23	Horizontal
5	4992.54	49.55	-107.69	-58.14	-13.00	45.14	269	130	Horizontal
6	5824.63	50.29	-105.05	-54.76	-13.00	41.76	223	194	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	64.58	-118.03	-53.45	-13.00	40.45	111	312	Vertical
2	2496.27	51.49	-114.12	-62.63	-13.00	49.63	194	271	Vertical
3	3328.36	50.66	-111.95	-61.29	-13.00	48.29	235	156	Vertical
4	4160.45	48.95	-109.62	-60.67	-13.00	47.67	175	71	Vertical
5	4992.54	50.49	-107.69	-57.20	-13.00	44.20	181	74	Vertical
6	5824.63	50.01	-105.05	-55.04	-13.00	42.04	234	2	Vertical



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Test Band =LTE Band 5_ TM1 ANT1

Test Channel =High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	68.49	-118.00	-49.51	-13.00	36.51	235	213	Horizontal
2	2518.77	52.94	-114.13	-61.19	-13.00	48.19	140	160	Horizontal
3	3358.36	50.11	-112.02	-61.91	-13.00	48.91	188	122	Horizontal
4	4197.95	50.42	-109.46	-59.04	-13.00	46.04	199	266	Horizontal
5	5037.54	50.28	-107.51	-57.23	-13.00	44.23	165	192	Horizontal
6	5887.13	49.98	-104.66	-54.68	-13.00	41.68	178	59	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	67.75	-118.00	-50.25	-13.00	37.25	132	159	Vertical
2	2518.77	52.86	-114.13	-61.27	-13.00	48.27	185	100	Vertical
3	3358.36	49.59	-112.02	-62.43	-13.00	49.43	147	241	Vertical
4	4197.95	48.94	-109.46	-60.52	-13.00	47.52	122	93	Vertical
5	5037.54	49.51	-107.51	-58.00	-13.00	45.00	169	93	Vertical
6	5887.13	50.67	-104.66	-53.99	-13.00	40.99	222	304	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-7.60	-0.009168	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.70	-0.000837	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.90	0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	1.00	0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.50	-0.001793	±2.5	PASS

The End



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