

# Appendix B.4

## LTE Band 4



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### Effective (Isotropic) Radiated Power Output Data

#### Test Result

#### Ant4:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.31	21.61	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.09	21.39	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.15	21.45	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.15	20.45	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.27	20.57	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.33	20.63	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.44	20.74	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.33	19.63	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.34	19.64	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.33	19.63	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.42	19.72	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.47	18.77	30	PASS
Band4	1.4MHz	256QAM	19957	1RB#0	18.65	16.95	30	PASS
Band4	1.4MHz	256QAM	19957	1RB#2	18.55	16.85	30	PASS
Band4	1.4MHz	256QAM	19957	1RB#5	18.76	17.06	30	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	18.60	16.90	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.28	21.58	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.23	21.53	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.12	21.42	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.34	20.64	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.37	20.67	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.35	20.65	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.38	20.68	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.40	19.70	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.40	19.70	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.48	19.78	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.40	19.70	30	PASS



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Band4	1.4MHz	64QAM	20175	6RB#0	20.43	18.73	30	PASS
Band4	1.4MHz	256QAM	20175	1RB#0	18.82	17.12	30	PASS
Band4	1.4MHz	256QAM	20175	1RB#2	18.66	16.96	30	PASS
Band4	1.4MHz	256QAM	20175	1RB#5	18.52	16.82	30	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	18.60	16.90	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.22	21.52	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.23	21.53	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.26	21.56	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.26	20.56	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.28	20.58	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.49	20.79	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.32	20.62	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.47	19.77	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.48	19.78	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.29	19.59	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.44	19.74	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.48	18.78	30	PASS
Band4	1.4MHz	256QAM	20393	1RB#0	18.77	17.07	30	PASS
Band4	1.4MHz	256QAM	20393	1RB#2	18.78	17.08	30	PASS
Band4	1.4MHz	256QAM	20393	1RB#5	18.81	17.11	30	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	18.87	17.17	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.30	21.60	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.24	21.54	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.27	21.57	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.39	20.69	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.47	20.77	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.44	20.74	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.40	20.70	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.49	19.79	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.55	19.85	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.53	19.83	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.47	19.77	30	PASS



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Band4	3MHz	64QAM	19965	15RB#0	20.55	18.85	30	PASS
Band4	3MHz	256QAM	19965	1RB#0	18.68	16.98	30	PASS
Band4	3MHz	256QAM	19965	1RB#8	18.62	16.92	30	PASS
Band4	3MHz	256QAM	19965	1RB#14	18.83	17.13	30	PASS
Band4	3MHz	256QAM	19965	15RB#0	18.61	16.91	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.32	21.62	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.32	21.62	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.27	21.57	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.35	20.65	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.48	20.78	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.47	20.77	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.41	20.71	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.46	19.76	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.54	19.84	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.45	19.75	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.49	19.79	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.57	18.87	30	PASS
Band4	3MHz	256QAM	20175	1RB#0	18.88	17.18	30	PASS
Band4	3MHz	256QAM	20175	1RB#8	18.65	16.95	30	PASS
Band4	3MHz	256QAM	20175	1RB#14	18.58	16.88	30	PASS
Band4	3MHz	256QAM	20175	15RB#0	18.62	16.92	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.29	21.59	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.31	21.61	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.35	21.65	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.32	20.62	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.44	20.74	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.48	20.78	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.41	20.71	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.54	19.84	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.51	19.81	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.50	19.80	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.46	19.76	30	PASS



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Band4	3MHz	64QAM	20385	15RB#0	20.52	18.82	30	PASS
Band4	3MHz	256QAM	20385	1RB#0	18.70	17.00	30	PASS
Band4	3MHz	256QAM	20385	1RB#8	18.77	17.07	30	PASS
Band4	3MHz	256QAM	20385	1RB#14	18.91	17.21	30	PASS
Band4	3MHz	256QAM	20385	15RB#0	18.87	17.17	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.36	21.66	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.28	21.58	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.35	21.65	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.31	20.61	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.47	20.77	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.47	20.77	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.44	20.74	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.54	19.84	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.48	19.78	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.52	19.82	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.53	19.83	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.54	18.84	30	PASS
Band4	5MHz	256QAM	19975	1RB#0	18.66	16.96	30	PASS
Band4	5MHz	256QAM	19975	1RB#12	18.63	16.93	30	PASS
Band4	5MHz	256QAM	19975	1RB#24	18.83	17.13	30	PASS
Band4	5MHz	256QAM	19975	25RB#0	18.71	17.01	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.36	21.66	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.28	21.58	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.35	21.65	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.31	20.61	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.47	20.77	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.47	20.77	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.44	20.74	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.54	19.84	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.48	19.78	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.52	19.82	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.53	19.83	30	PASS



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Band4	5MHz	64QAM	20175	25RB#0	20.54	18.84	30	PASS
Band4	5MHz	256QAM	20175	1RB#0	18.66	16.96	30	PASS
Band4	5MHz	256QAM	20175	1RB#12	18.63	16.93	30	PASS
Band4	5MHz	256QAM	20175	1RB#24	18.83	17.13	30	PASS
Band4	5MHz	256QAM	20175	25RB#0	18.71	17.01	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.31	21.61	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.25	21.55	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.29	21.59	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.32	20.62	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.41	20.71	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.44	20.74	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.43	20.73	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.49	19.79	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.53	19.83	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.45	19.75	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.50	19.80	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.56	18.86	30	PASS
Band4	5MHz	256QAM	20375	1RB#0	18.86	17.16	30	PASS
Band4	5MHz	256QAM	20375	1RB#12	18.65	16.95	30	PASS
Band4	5MHz	256QAM	20375	1RB#24	18.59	16.89	30	PASS
Band4	5MHz	256QAM	20375	25RB#0	18.58	16.88	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.29	21.59	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.23	21.53	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.29	21.59	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.30	20.60	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.37	20.67	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.38	20.68	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.40	20.70	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.47	19.77	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.48	19.78	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.54	19.84	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.49	19.79	30	PASS



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Table with 9 columns: Band, Frequency, Modulation, Power, Bandwidth, S/N, C/N, BER, and Result. It contains 35 rows of test data for various modulation schemes like 64QAM, 256QAM, and QPSK.



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Band4	10MHz	64QAM	20350	50RB#0	20.62	18.92	30	PASS
Band4	10MHz	256QAM	20350	1RB#0	18.86	17.16	30	PASS
Band4	10MHz	256QAM	20350	1RB#24	18.66	16.96	30	PASS
Band4	10MHz	256QAM	20350	1RB#49	18.55	16.85	30	PASS
Band4	10MHz	256QAM	20350	50RB#0	18.57	16.87	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.28	21.58	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.29	21.59	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.33	21.63	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.32	20.62	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.38	20.68	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.46	20.76	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.37	20.67	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.51	19.81	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.52	19.82	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.52	19.82	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.46	19.76	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.56	18.86	30	PASS
Band4	15MHz	256QAM	20025	1RB#0	18.73	17.03	30	PASS
Band4	15MHz	256QAM	20025	1RB#38	18.79	17.09	30	PASS
Band4	15MHz	256QAM	20025	1RB#74	18.80	17.10	30	PASS
Band4	15MHz	256QAM	20025	75RB#0	18.87	17.17	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.33	21.63	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.24	21.54	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.27	21.57	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.29	20.59	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.40	20.70	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.46	20.76	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.39	20.69	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.51	19.81	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.48	19.78	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.47	19.77	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.46	19.76	30	PASS



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Band4	15MHz	64QAM	20175	75RB#0	20.58	18.88	30	PASS
Band4	15MHz	256QAM	20175	1RB#0	18.66	16.96	30	PASS
Band4	15MHz	256QAM	20175	1RB#38	18.64	16.94	30	PASS
Band4	15MHz	256QAM	20175	1RB#74	18.82	17.12	30	PASS
Band4	15MHz	256QAM	20175	75RB#0	18.60	16.90	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.36	21.66	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.31	21.61	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.35	21.65	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.30	20.60	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.37	20.67	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.48	20.78	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.40	20.70	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.52	19.82	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.51	19.81	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.46	19.76	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.50	19.80	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.61	18.91	30	PASS
Band4	15MHz	256QAM	20325	1RB#0	18.86	17.16	30	PASS
Band4	15MHz	256QAM	20325	1RB#38	18.72	17.02	30	PASS
Band4	15MHz	256QAM	20325	1RB#74	18.54	16.84	30	PASS
Band4	15MHz	256QAM	20325	75RB#0	18.63	16.93	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.32	21.62	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.23	21.53	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.34	21.64	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.37	20.67	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.42	20.72	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.43	20.73	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.42	20.72	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.51	19.81	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.51	19.81	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.51	19.81	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.54	19.84	30	PASS



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Band4	20MHz	64QAM	20050	100RB#0	20.59	18.89	30	PASS
Band4	20MHz	256QAM	20050	1RB#0	18.75	17.05	30	PASS
Band4	20MHz	256QAM	20050	1RB#49	18.75	17.05	30	PASS
Band4	20MHz	256QAM	20050	1RB#99	18.80	17.10	30	PASS
Band4	20MHz	256QAM	20050	100RB#0	18.80	17.10	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.29	21.59	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.29	21.59	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.36	21.66	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.33	20.63	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.46	20.76	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.47	20.77	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.37	20.67	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.51	19.81	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.52	19.82	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.51	19.81	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.52	19.82	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.56	18.86	30	PASS
Band4	20MHz	256QAM	20175	1RB#0	18.60	16.90	30	PASS
Band4	20MHz	256QAM	20175	1RB#49	18.64	16.94	30	PASS
Band4	20MHz	256QAM	20175	1RB#99	18.82	17.12	30	PASS
Band4	20MHz	256QAM	20175	100RB#0	18.67	16.97	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.34	21.64	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.25	21.55	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.36	21.66	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.32	20.62	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.39	20.69	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.45	20.75	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.45	20.75	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.50	19.80	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.53	19.83	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.46	19.76	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.52	19.82	30	PASS



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Band4	20MHz	64QAM	20300	100RB#0	20.62	18.92	30	PASS
Band4	20MHz	256QAM	20300	1RB#0	18.87	17.17	30	PASS
Band4	20MHz	256QAM	20300	1RB#49	18.75	17.05	30	PASS
Band4	20MHz	256QAM	20300	1RB#99	18.54	16.84	30	PASS
Band4	20MHz	256QAM	20300	100RB#0	18.62	16.92	30	PASS



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### Peak-to-Average Ratio(CCDF)

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.88	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.98	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.92	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.56	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.78	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.76	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.02	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.22	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.12	13	PASS
Band4	20MHz	256QAM	20050	100RB#0	6.26	13	PASS
Band4	20MHz	256QAM	20175	100RB#0	6.38	13	PASS
Band4	20MHz	256QAM	20300	100RB#0	6.32	13	PASS

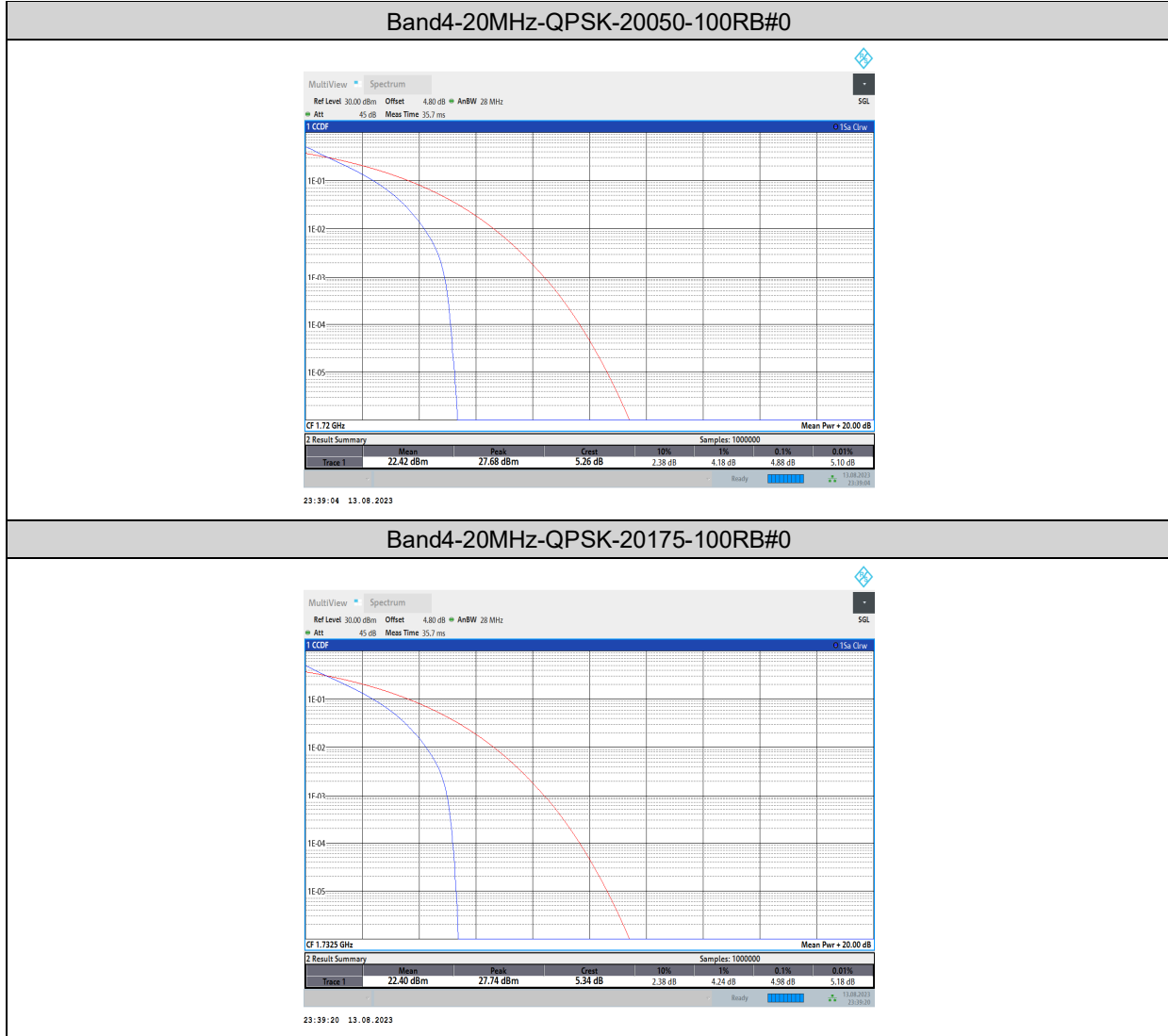


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Test Graphs



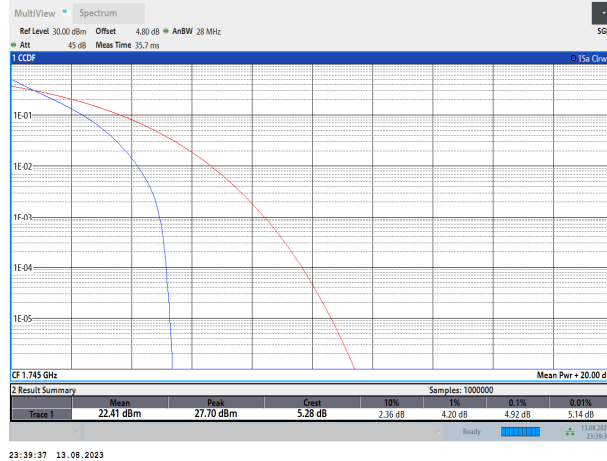
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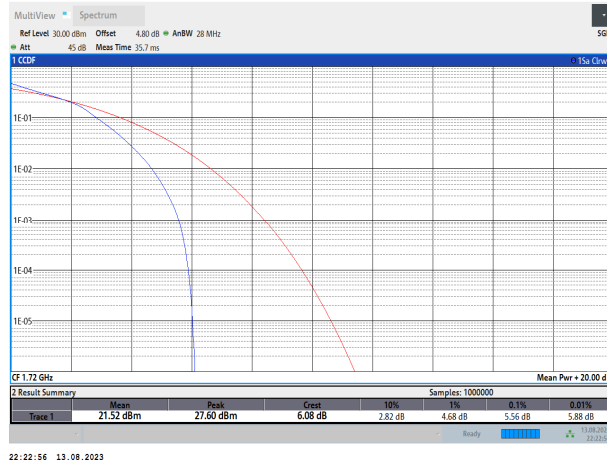
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Band4-20MHz-QPSK-20300-100RB#0



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

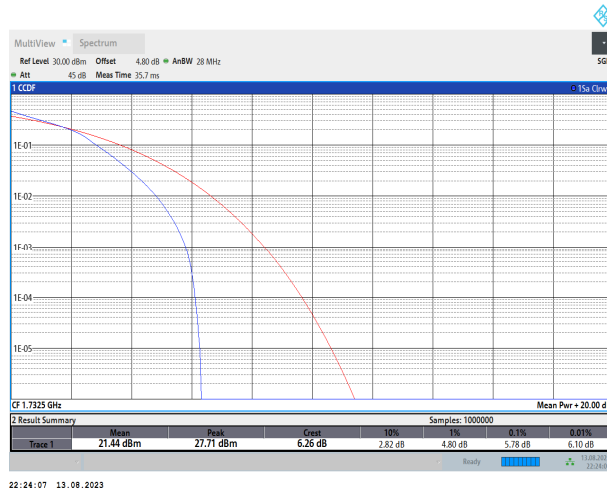


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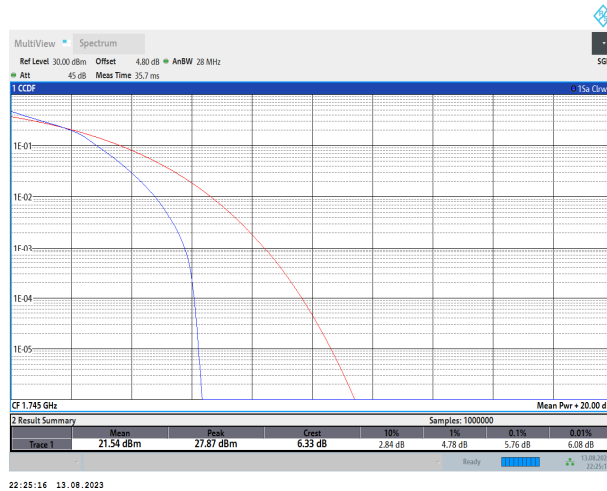
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Band4-20MHz-16QAM-20175-100RB#0



22:24:07 13.08.2023

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



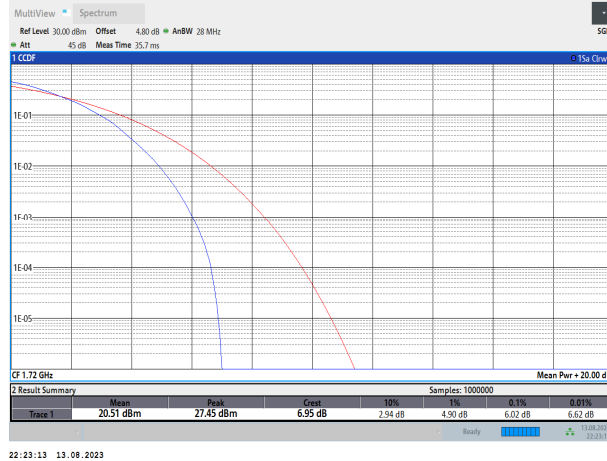
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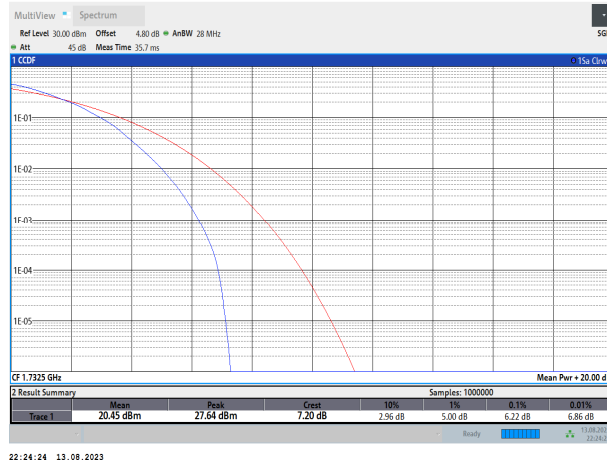
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Band4-20MHz-64QAM-20050-100RB#0



Band4-20MHz-64QAM-20175-100RB#0

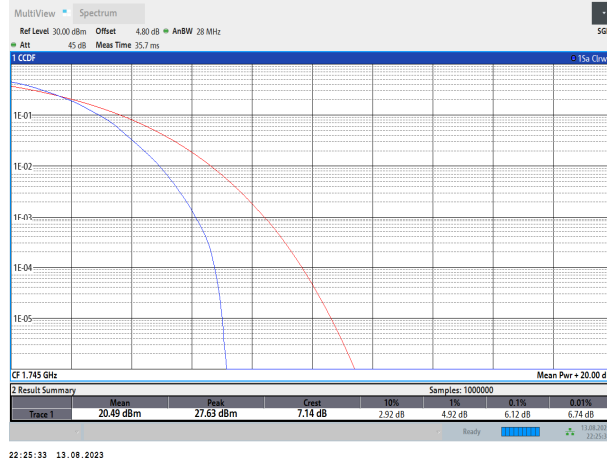


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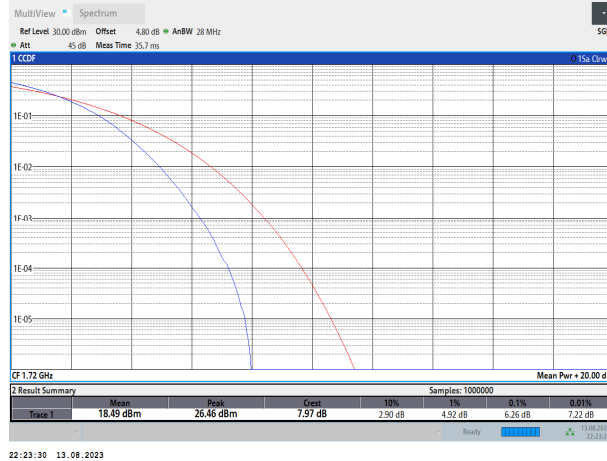
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Band4-20MHz-64QAM-20300-100RB#0



Band4-20MHz-256QAM-20050-100RB#0

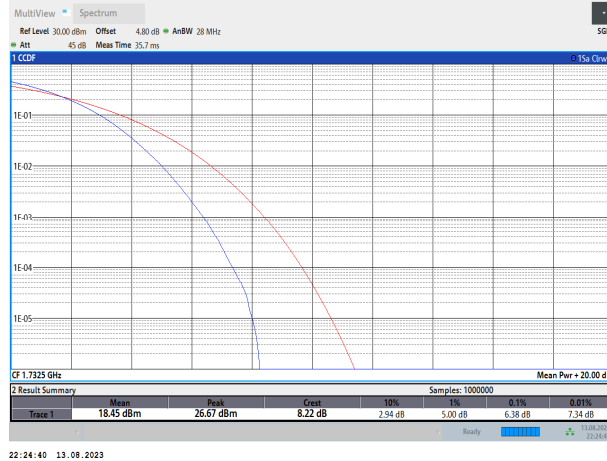


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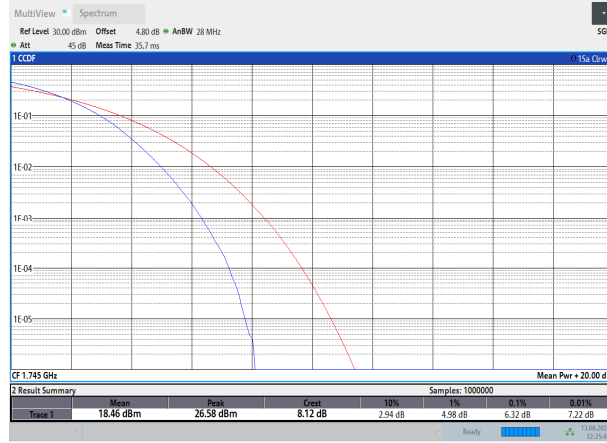
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Band4-20MHz-256QAM-20175-100RB#0



22:24:40 13.08.2023

Band4-20MHz-256QAM-20300-100RB#0



22:25:49 13.08.2023



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### 26dB Bandwidth and Occupied Bandwidth

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	20175	6RB#0	1.108	1.43	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.111	1.39	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.106	1.43	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	1.110	1.39	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	3.08	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.703	3.05	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.693	3.05	PASS
Band4	3MHz	256QAM	20175	15RB#0	2.694	3.06	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.477	5.07	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.481	5.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.484	5.06	PASS
Band4	5MHz	256QAM	20175	25RB#0	4.479	5.05	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.969	9.94	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.956	9.82	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.945	9.88	PASS
Band4	10MHz	256QAM	20175	50RB#0	8.959	9.82	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.492	15.12	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.532	15.09	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.495	15.09	PASS
Band4	15MHz	256QAM	20175	75RB#0	13.489	15.06	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.951	19.80	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.935	19.92	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.929	19.92	PASS
Band4	20MHz	256QAM	20175	100RB#0	17.920	19.80	PASS



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Test Graphs

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



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

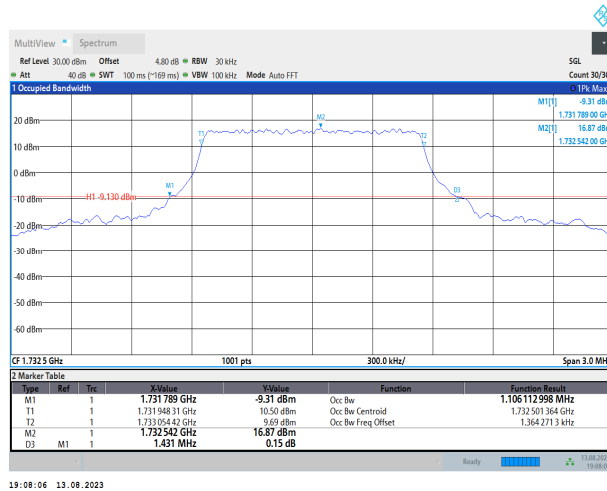


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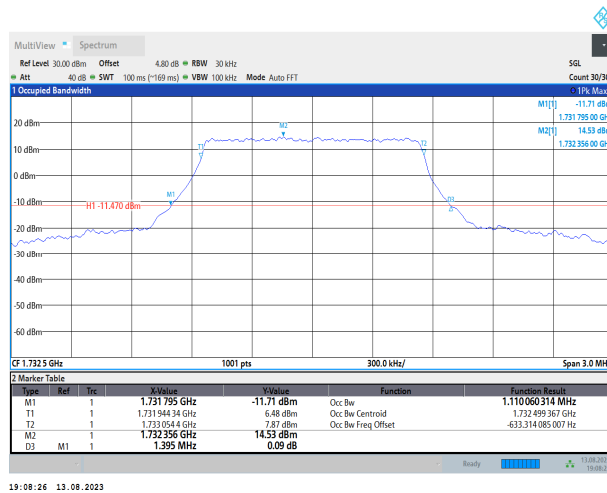
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Band4-1.4MHz-256QAM-20175-6RB#0

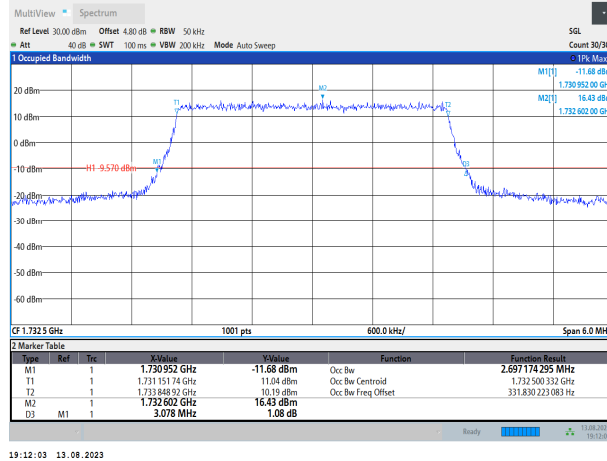


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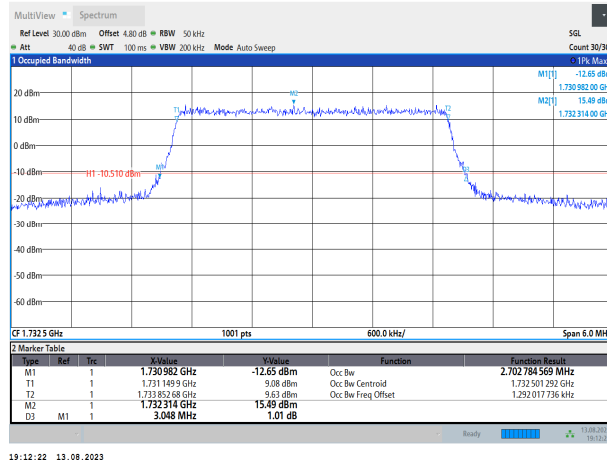
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Band4-3MHz-QPSK-20175-15RB#0



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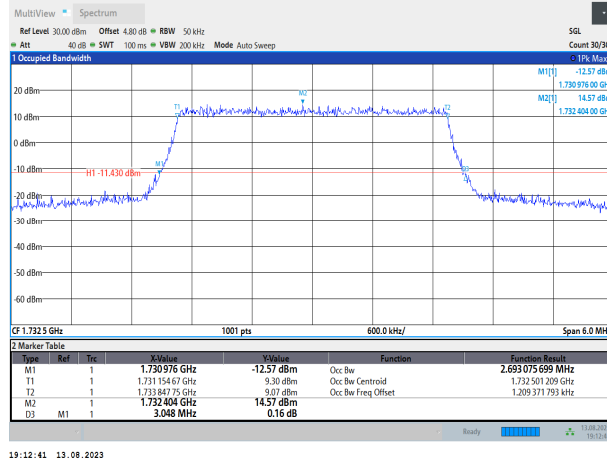


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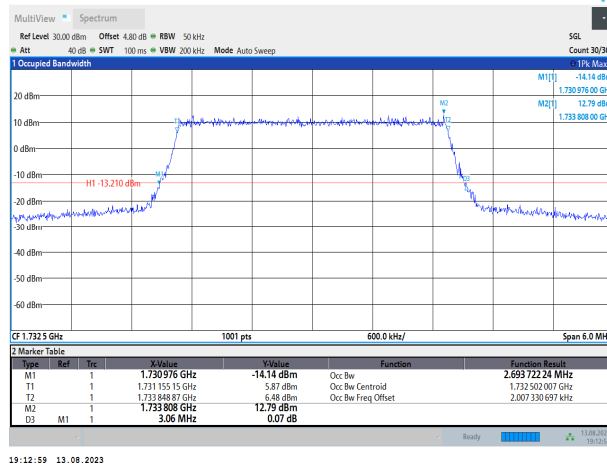
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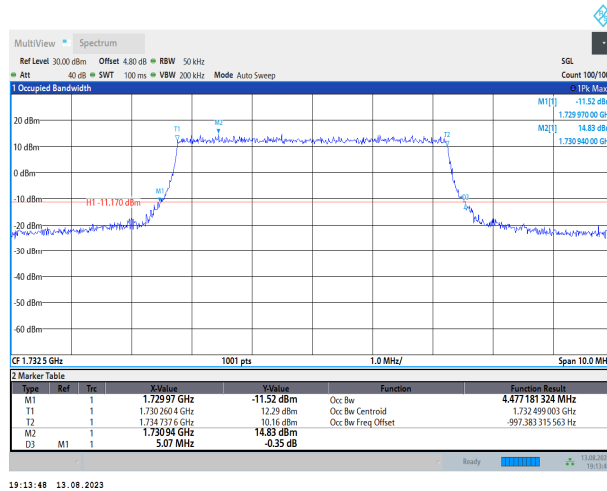
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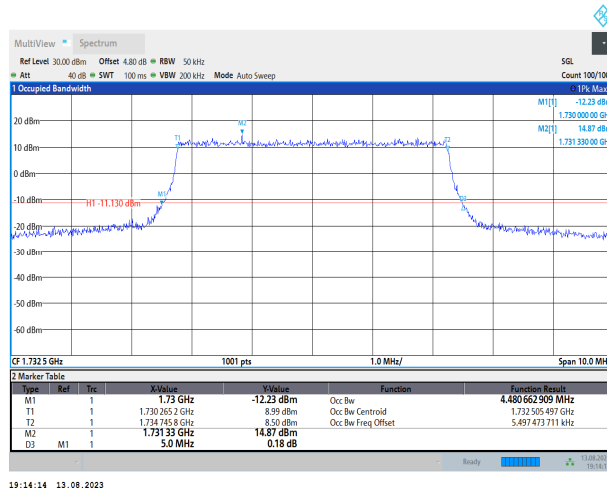
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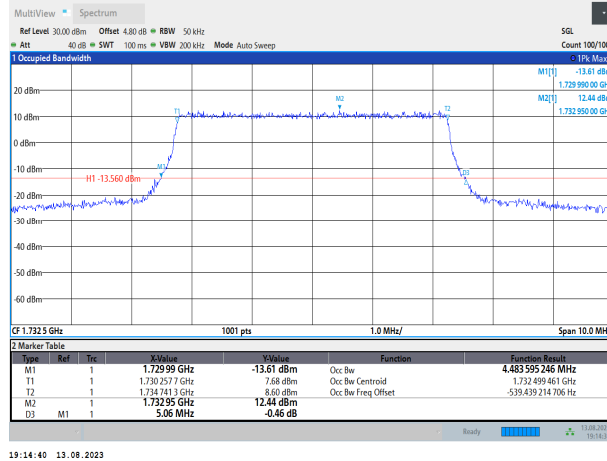
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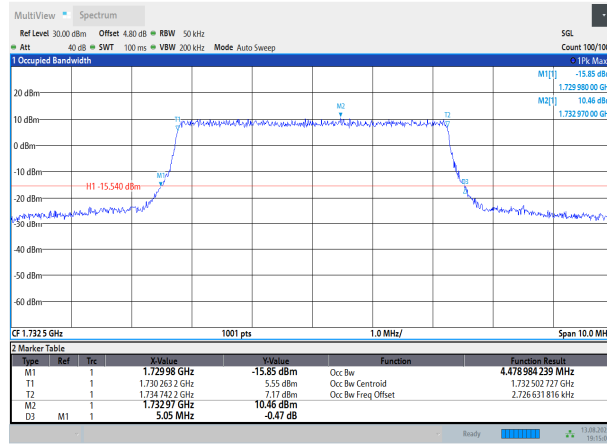


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Band4-5MHz-256QAM-20175-25RB#0



19:15:06 13.08.2023

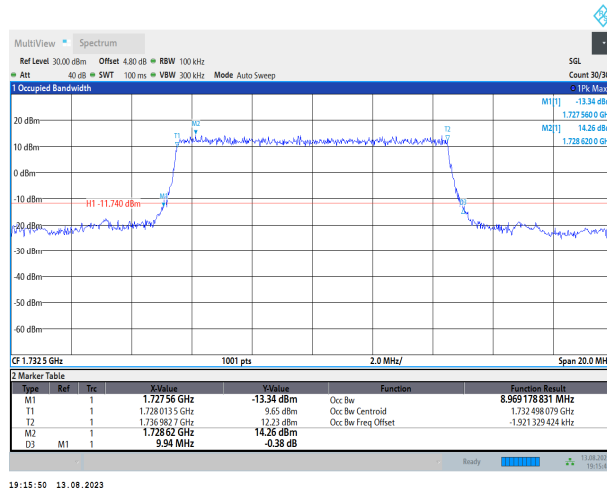


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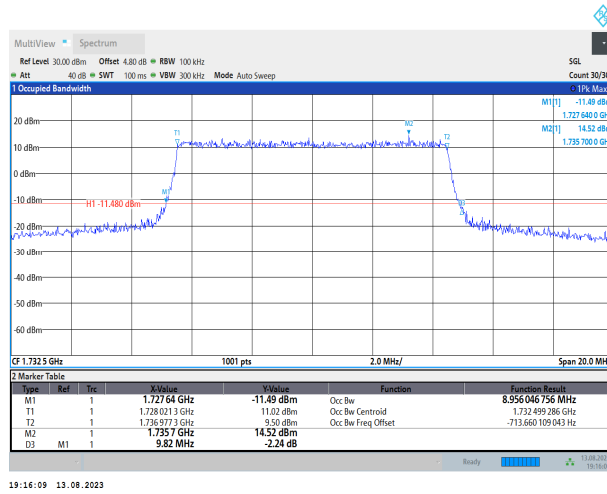
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Band4-10MHz-16QAM-20175-50RB#0

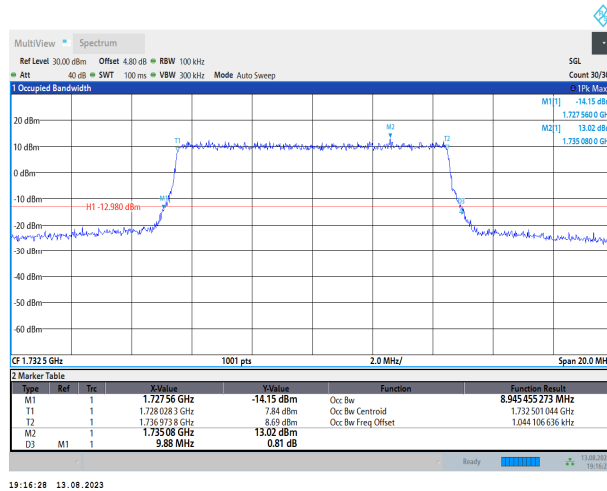


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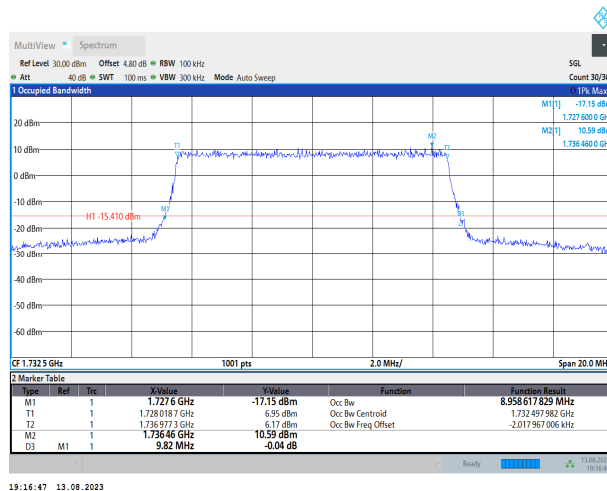
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Band4-10MHz-64QAM-20175-50RB#0



19:16:28 13.08.2023

Band4-10MHz-256QAM-20175-50RB#0



19:16:47 13.08.2023

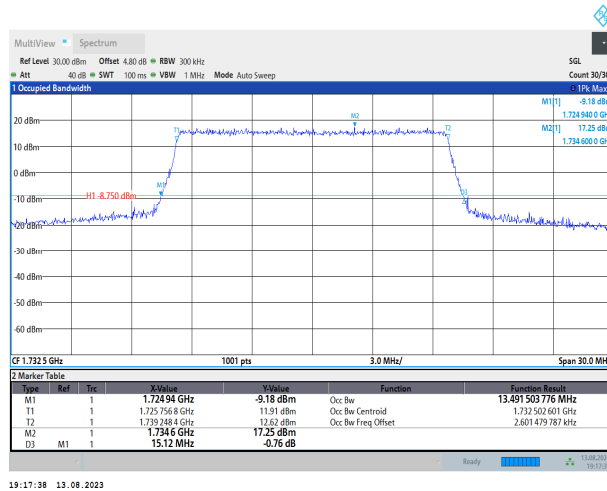


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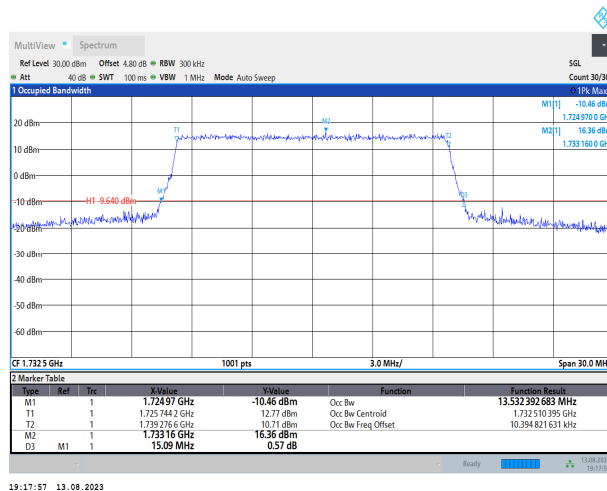
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Band4-15MHz-QPSK-20175-75RB#0



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

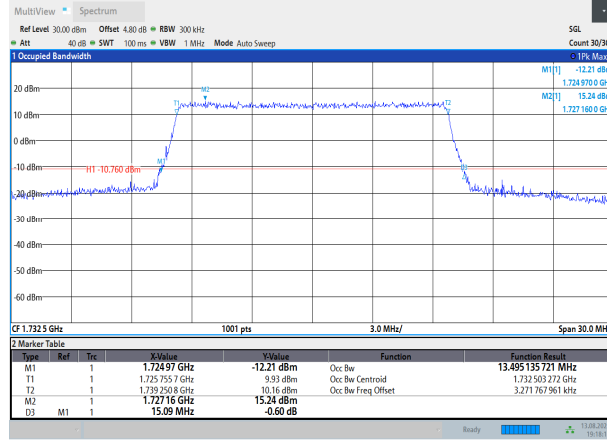


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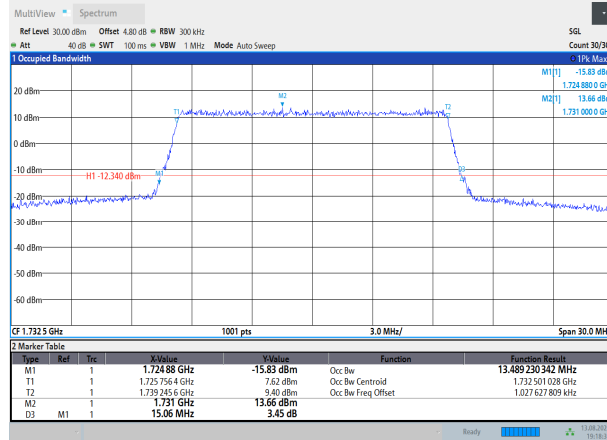
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Band4-15MHz-64QAM-20175-75RB#0



19:18:16 13.08.2023

Band4-15MHz-256QAM-20175-75RB#0



19:18:35 13.08.2023



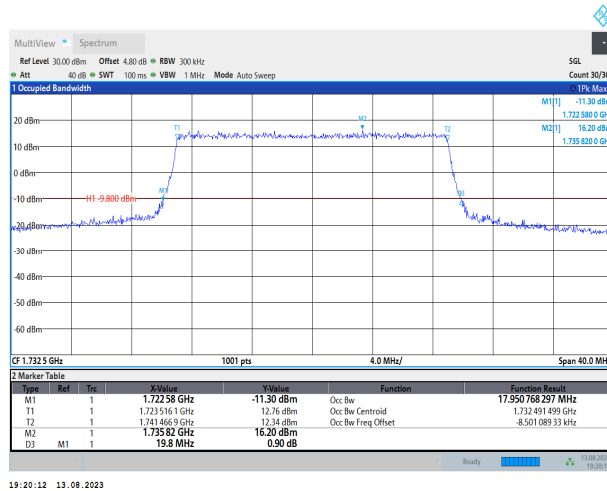
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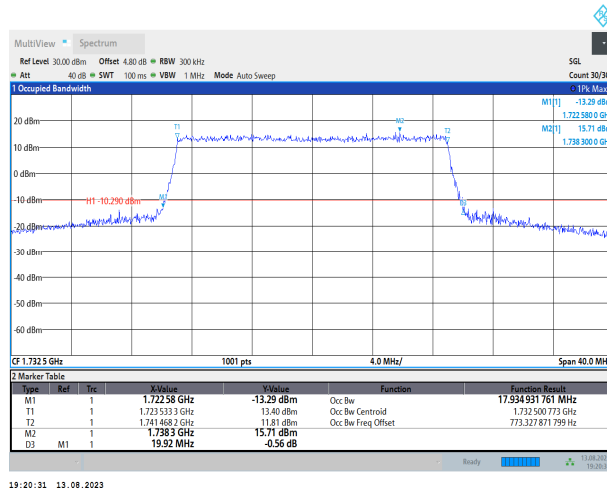
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Band4-20MHz-QPSK-20175-100RB#0



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



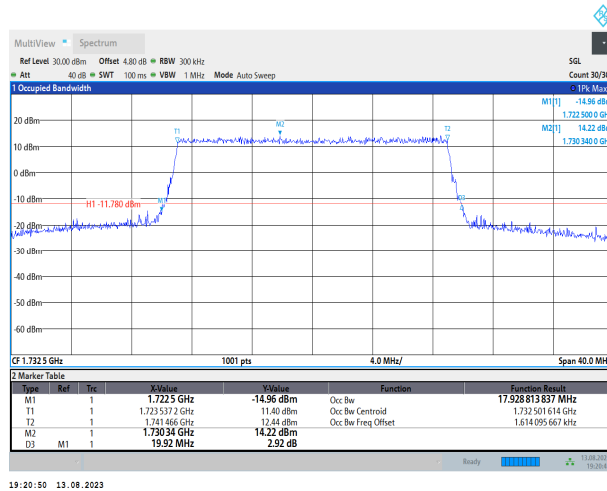
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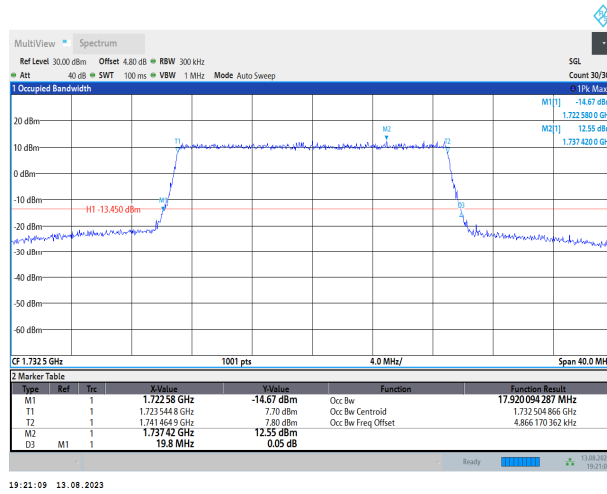
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Band4-20MHz-64QAM-20175-100RB#0



Band4-20MHz-256QAM-20175-100RB#0



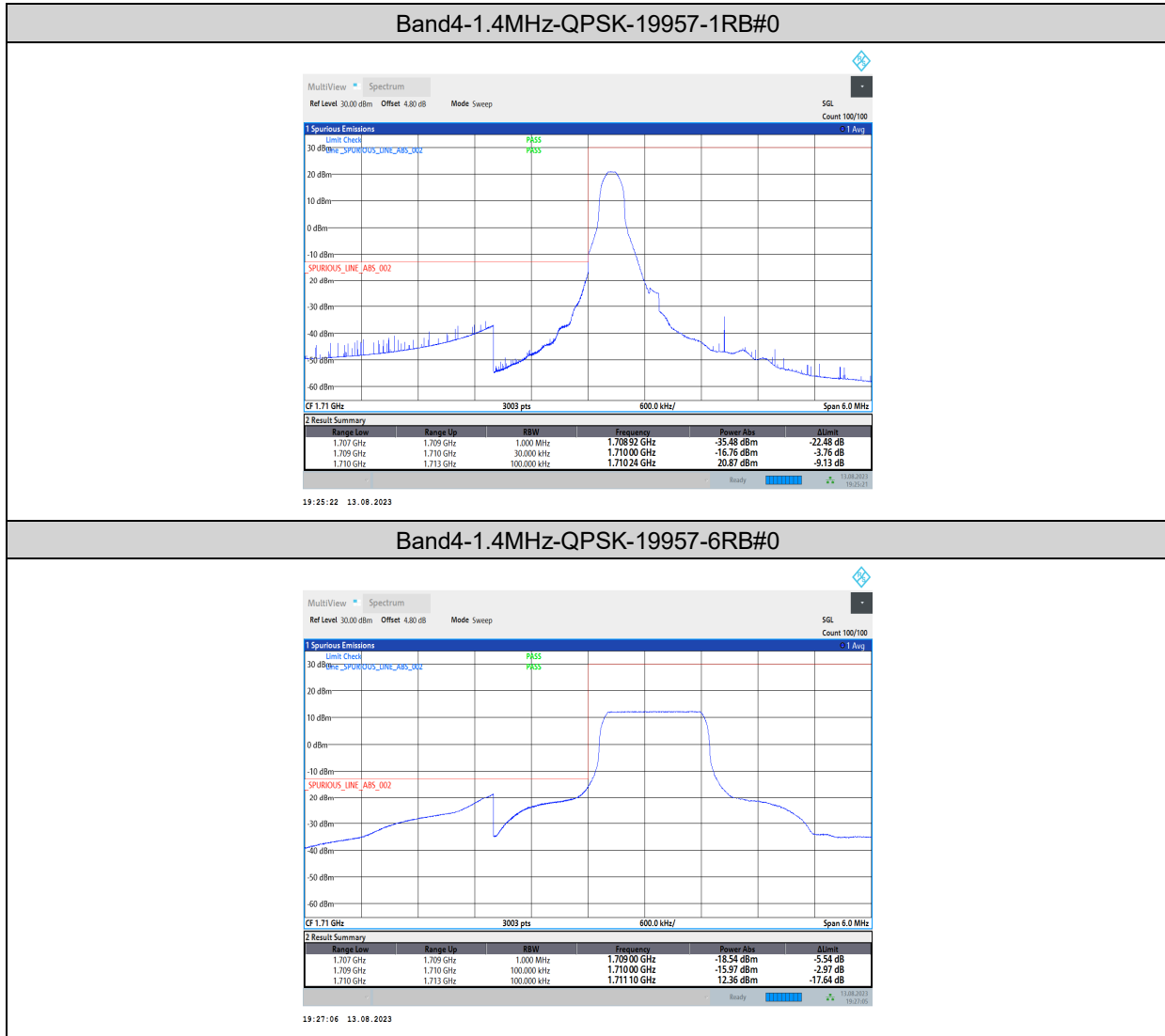
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## Band Edge

## Test Graphs

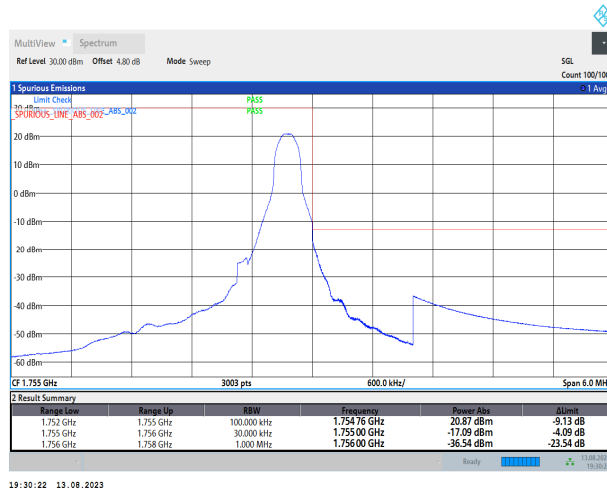

**Band4-1.4MHz-QPSK-19957-6RB#0**


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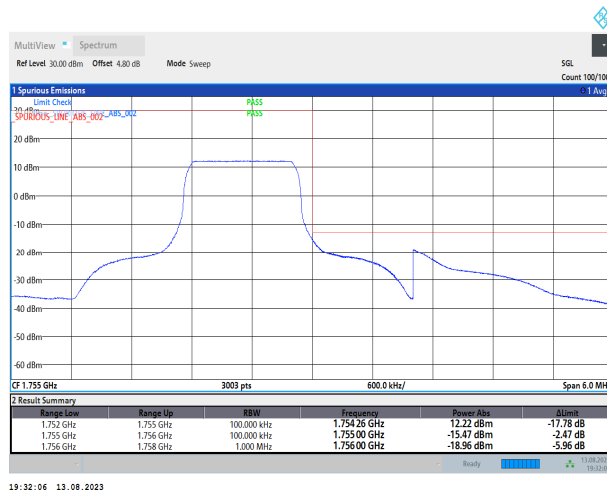
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Band4-1.4MHz-QPSK-20393-1RB#5



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

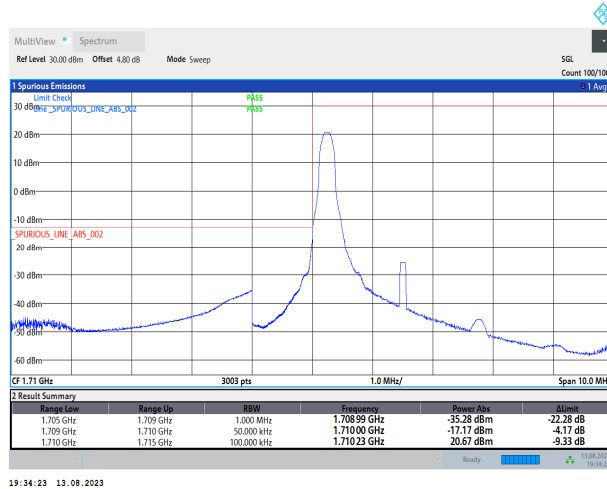


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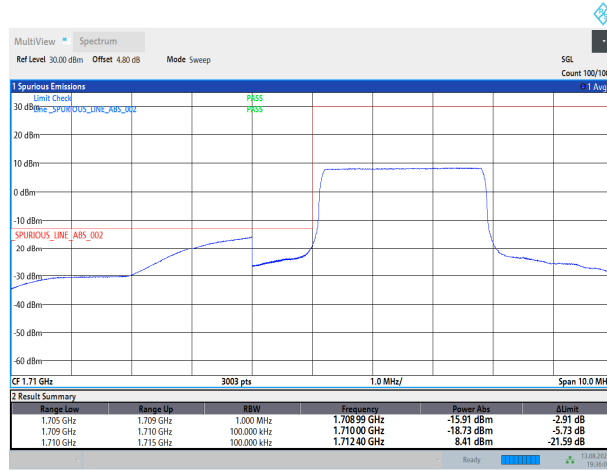
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Band4-3MHz-QPSK-19965-1RB#0



19:34:23 13.08.2023

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



19:36:07 13.08.2023

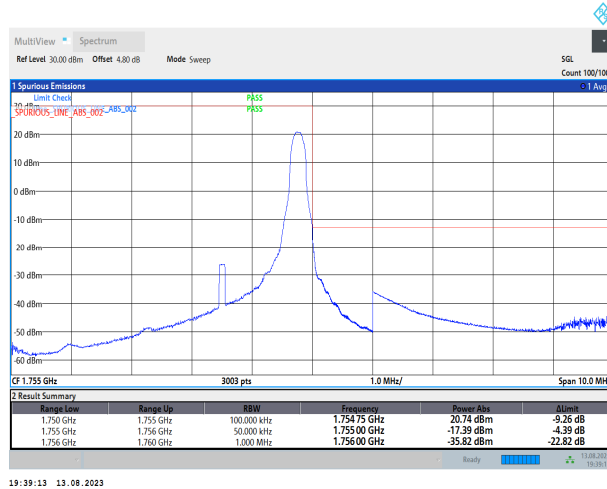


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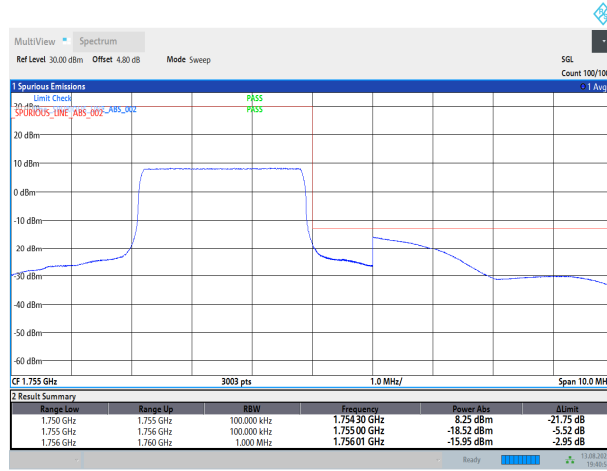
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Band4-3MHz-QPSK-20385-1RB#14



19:39:13 13.08.2023

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



19:40:57 13.08.2023



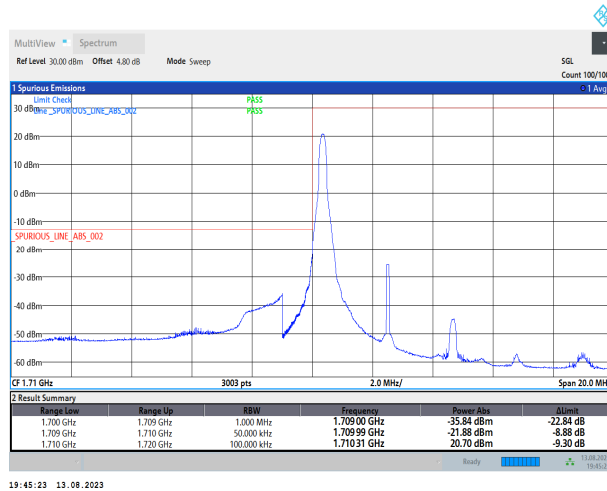
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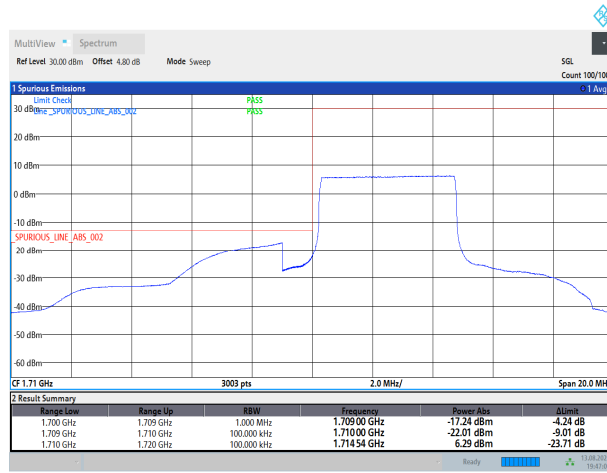


Band4-5MHz-QPSK-19975-1RB#0



19:45:23 13.08.2023

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



19:47:06 13.08.2023

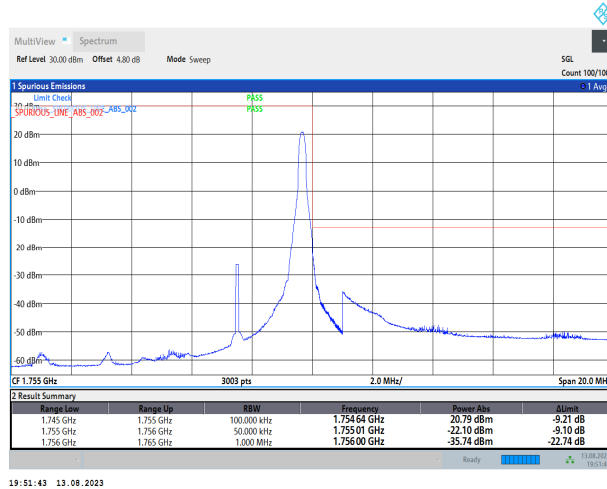


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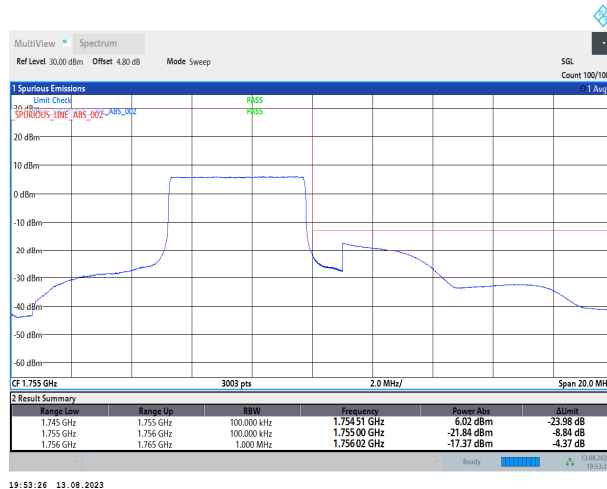
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Band4-5MHz-QPSK-20375-1RB#24



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



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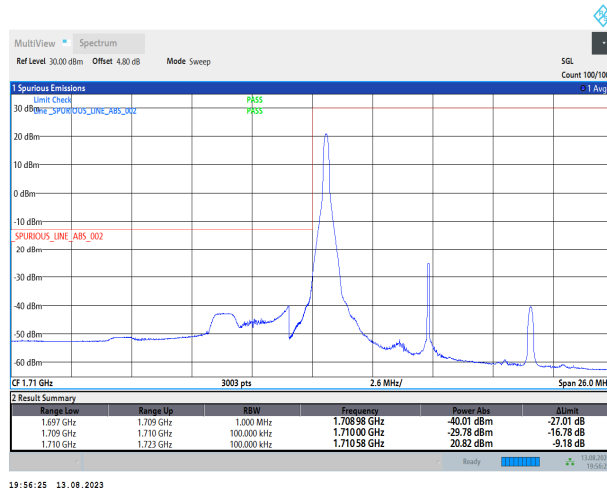


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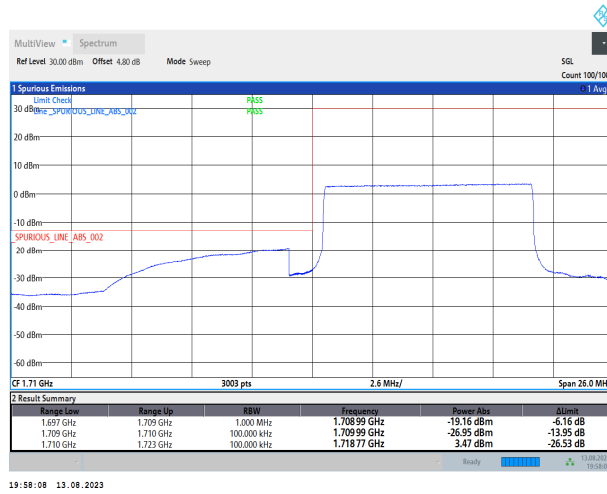
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Band4-10MHz-QPSK-20000-1RB#0



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

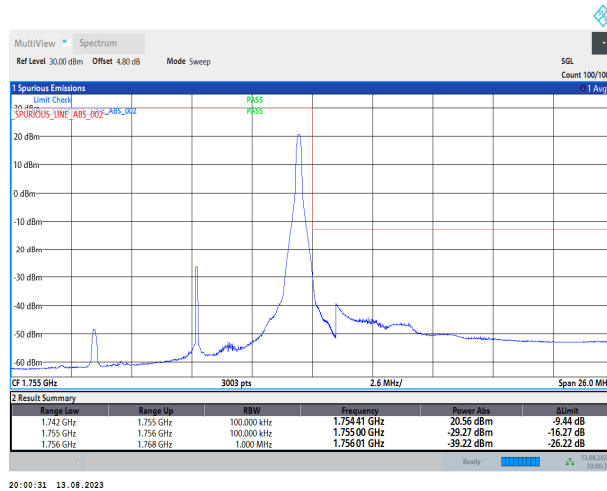


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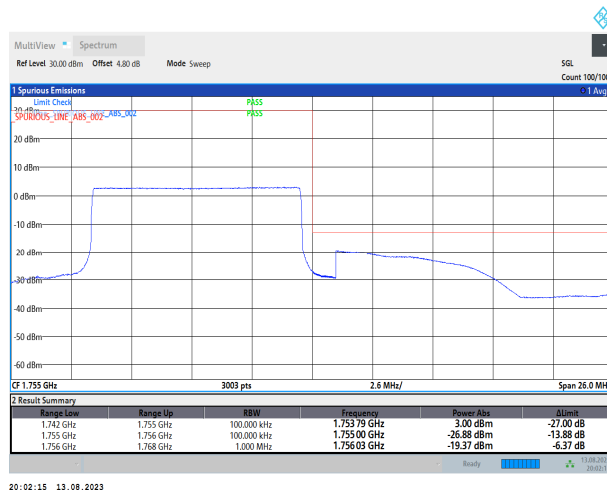
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Band4-10MHz-QPSK-20350-1RB#49



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

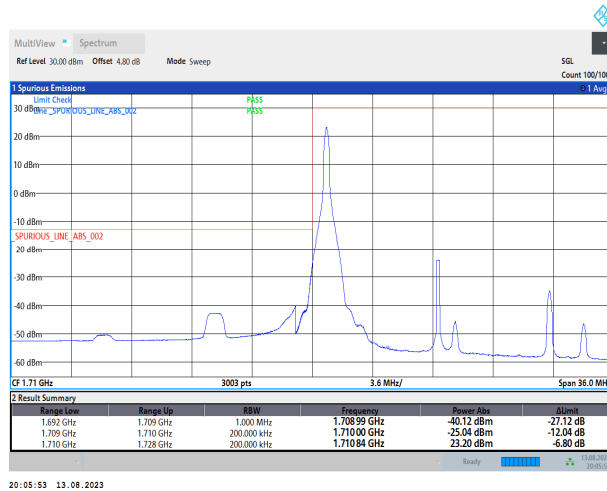


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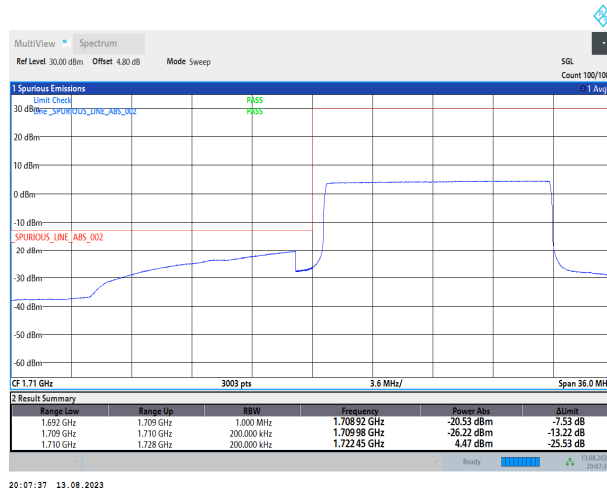
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Band4-15MHz-QPSK-20025-1RB#0



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

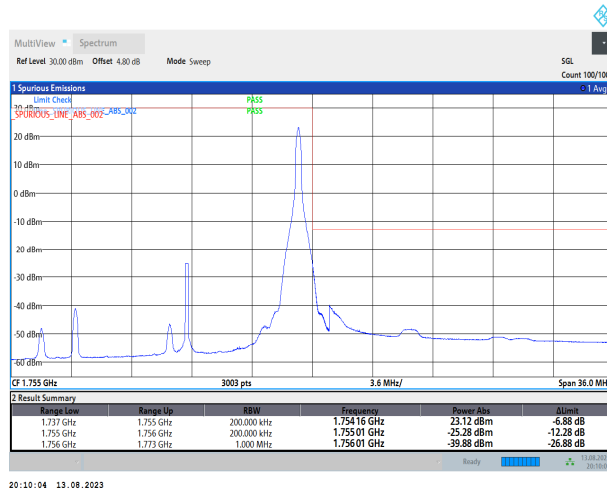


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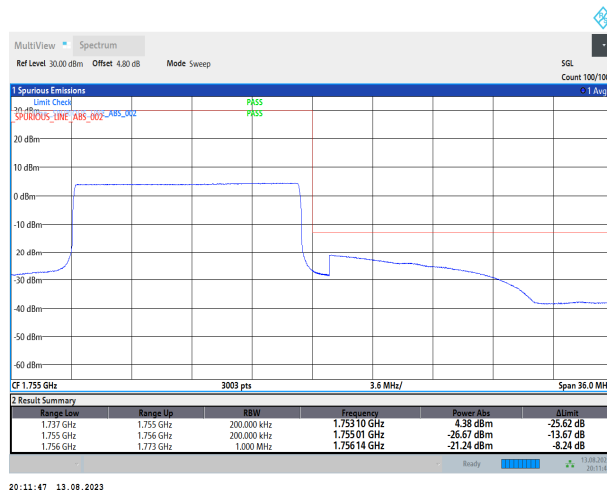
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Band4-15MHz-QPSK-20325-1RB#74



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



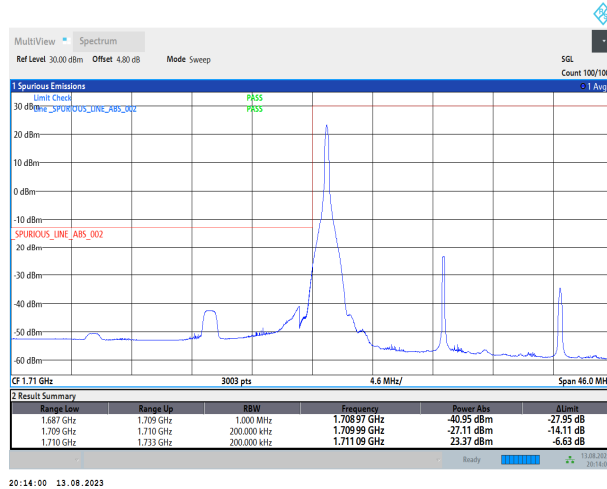
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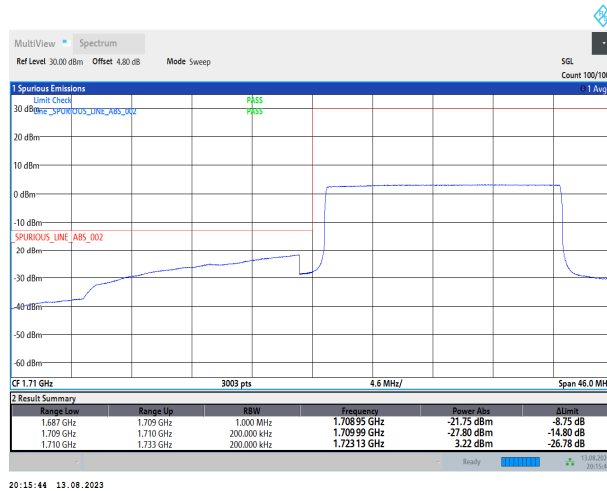
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Band4-20MHz-QPSK-20050-1RB#0



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

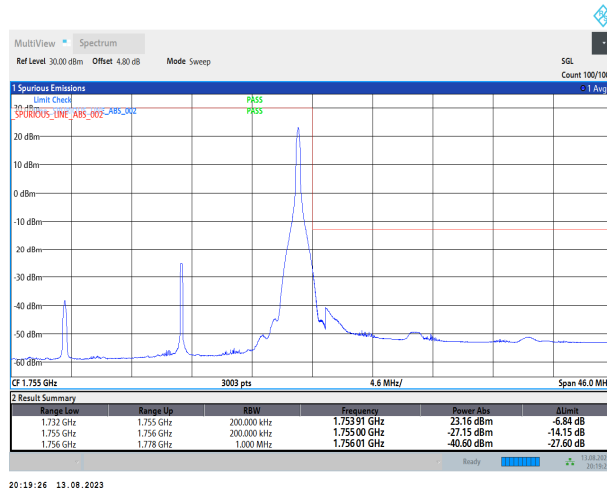


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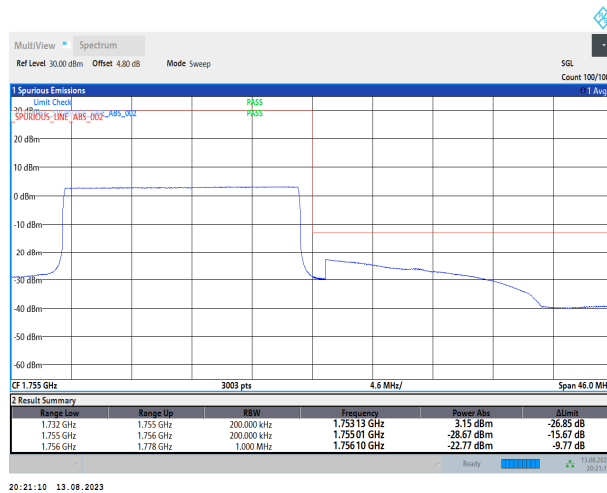
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Band4-20MHz-QPSK-20300-1RB#99



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



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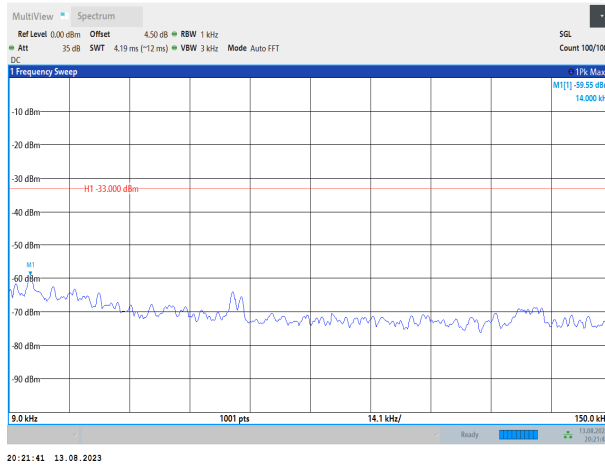
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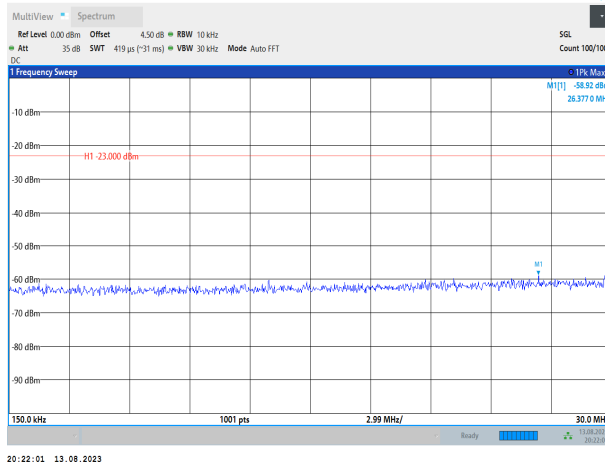
### Conducted Spurious Emission

### Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



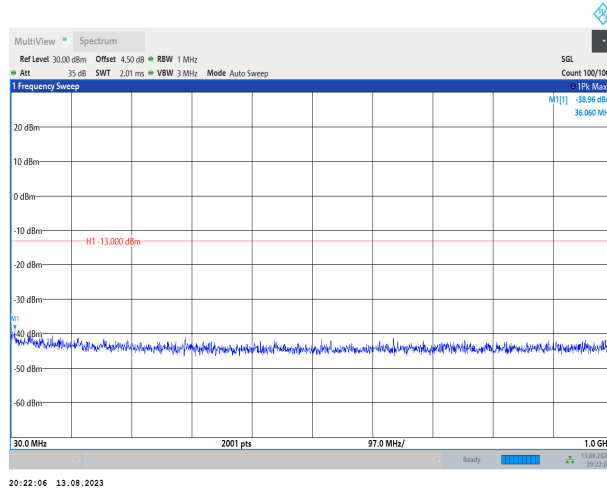
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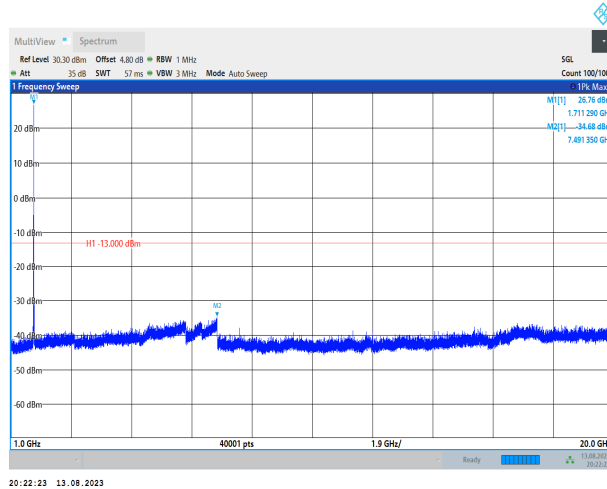
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Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz

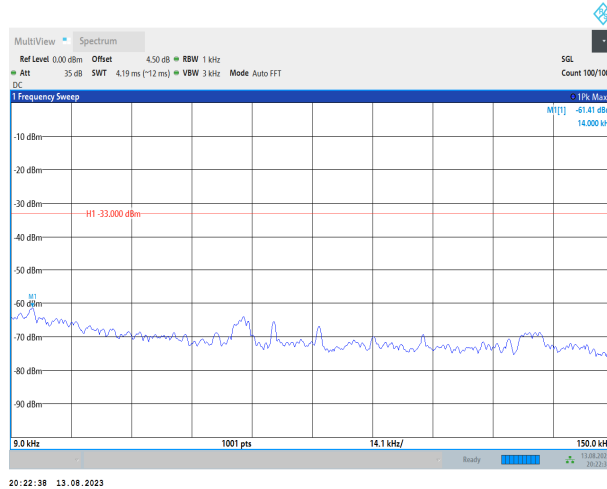


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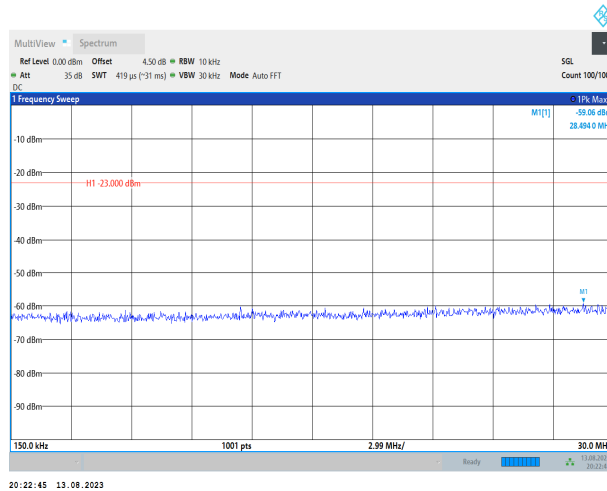
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



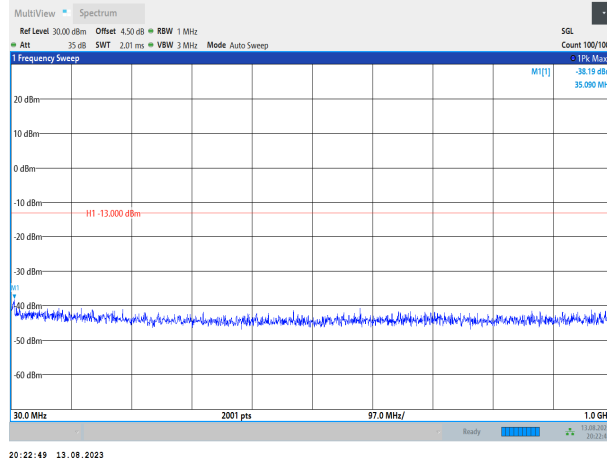
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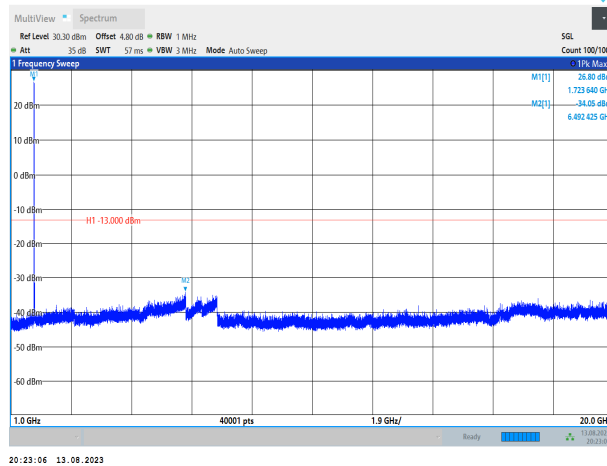
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



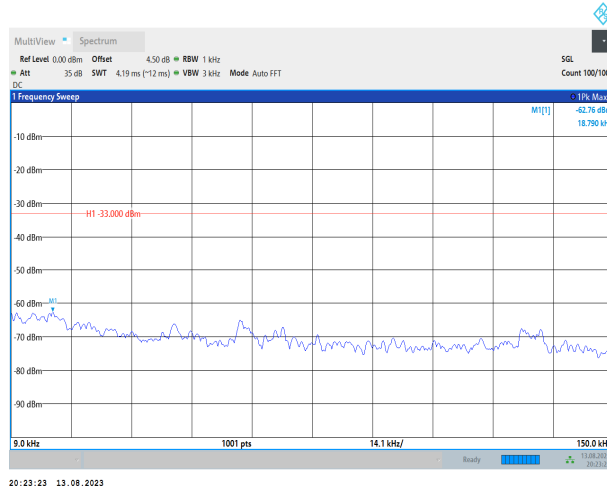
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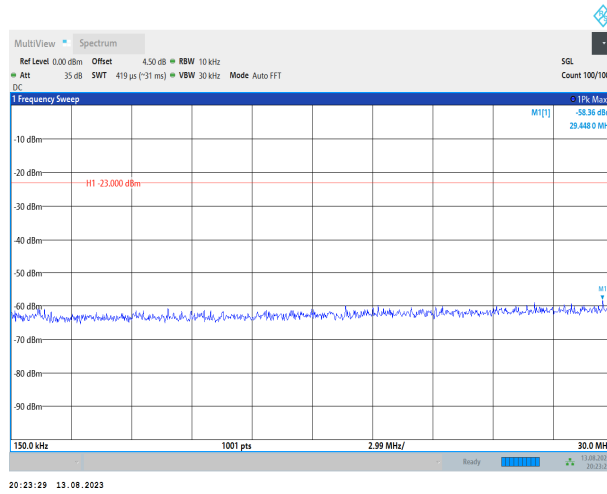
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz

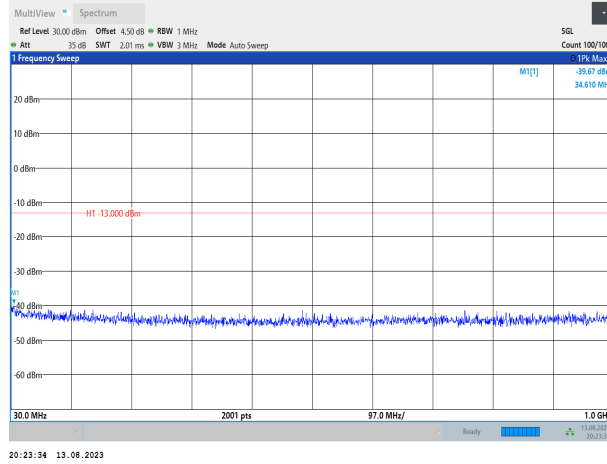


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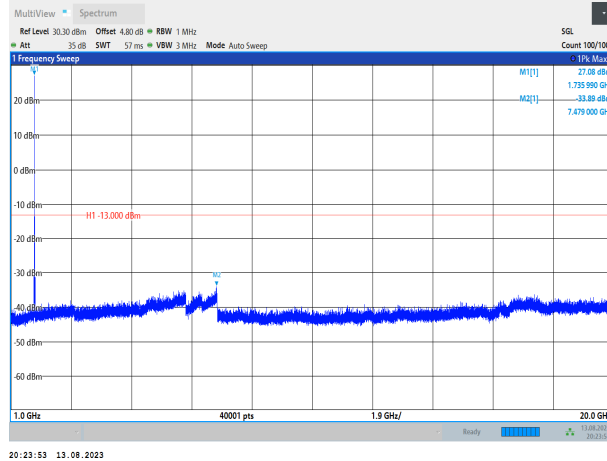
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band4\_ TM1

Test Channel = Low ANT2

Table with 11 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.

Table with 11 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.



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Test Band = LTE Band4\_ TM1

Test Channel = Mid ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.77	-46.27	28.57	-71.19	-13.00	58.19	145	359	Horizontal
2	5170.7700	40.51	-45.31	31.81	-68.24	-13.00	55.24	172	152	Horizontal
3	6894.3600	39.79	-44.10	35.01	-64.56	-13.00	51.56	125	4	Horizontal
4	8617.9500	36.61	-41.40	36.49	-63.55	-13.00	50.55	186	46	Horizontal
5	10341.5400	35.04	-39.06	38.37	-60.91	-13.00	47.91	163	358	Horizontal
6	12065.1300	33.19	-37.44	38.82	-60.69	-13.00	47.69	251	243	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.84	-46.27	28.57	-71.12	-13.00	58.12	244	44	Vertical
2	5170.7700	40.36	-45.31	31.81	-68.39	-13.00	55.39	175	151	Vertical
3	6894.3600	39.78	-44.10	35.01	-64.57	-13.00	51.57	186	3	Vertical
4	8617.9500	37.23	-41.40	36.49	-62.93	-13.00	49.93	263	0	Vertical
5	10341.5400	34.78	-39.06	38.37	-61.17	-13.00	48.17	259	16	Vertical
6	12065.1300	33.46	-37.44	38.82	-60.42	-13.00	47.42	191	105	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = High ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.29	-46.27	28.58	-70.65	-13.00	57.65	244	360	Horizontal
2	5208.2700	41.57	-45.26	31.90	-67.05	-13.00	54.05	163	255	Horizontal
3	6944.3600	39.45	-43.85	35.10	-64.56	-13.00	51.56	251	359	Horizontal
4	8680.4500	37.49	-41.62	36.46	-62.93	-13.00	49.93	185	178	Horizontal
5	10416.5400	33.64	-38.97	38.41	-62.19	-13.00	49.19	175	360	Horizontal
6	12152.6300	32.79	-37.42	38.85	-61.04	-13.00	48.04	146	286	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.11	-46.27	28.58	-70.83	-13.00	57.83	244	2	Vertical
2	5208.2700	40.43	-45.26	31.90	-68.19	-13.00	55.19	176	330	Vertical
3	6944.3600	39.40	-43.85	35.10	-64.61	-13.00	51.61	136	6	Vertical
4	8680.4500	37.35	-41.62	36.46	-63.07	-13.00	50.07	256	0	Vertical
5	10416.5400	34.03	-38.97	38.41	-61.80	-13.00	48.80	162	74	Vertical
6	12152.6300	33.24	-37.42	38.85	-60.59	-13.00	47.59	199	74	Vertical



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**Test Band = LTE Band4\_ TM1**  
**Test Channel = Low ANT3**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	42.48	-46.28	28.55	-70.50	-13.00	57.50	244	226	Horizontal
2	5133.2700	39.88	-45.34	31.72	-69.00	-13.00	56.00	175	29	Horizontal
3	6844.3600	39.87	-44.14	34.92	-64.61	-13.00	51.61	163	150	Horizontal
4	8555.4500	36.56	-41.46	36.52	-63.64	-13.00	50.64	256	353	Horizontal
5	10266.5400	34.59	-39.23	38.33	-61.56	-13.00	48.56	158	180	Horizontal
6	11977.6300	32.58	-37.51	38.80	-61.40	-13.00	48.40	148	240	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.77	-46.28	28.55	-71.21	-13.00	58.21	244	316	Vertical
2	5133.2700	40.31	-45.34	31.72	-68.57	-13.00	55.57	158	16	Vertical
3	6844.3600	39.35	-44.14	34.92	-65.13	-13.00	52.13	178	240	Vertical
4	8555.4500	36.40	-41.46	36.52	-63.80	-13.00	50.80	186	29	Vertical
5	10266.5400	34.42	-39.23	38.33	-61.73	-13.00	48.73	256	331	Vertical
6	11977.6300	31.80	-37.51	38.80	-62.18	-13.00	49.18	136	225	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = Mid ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	42.42	-46.27	28.57	-70.54	-13.00	57.54	245	256	Horizontal
2	5170.7700	39.91	-45.31	31.81	-68.84	-13.00	55.84	186	330	Horizontal
3	6894.3600	38.94	-44.10	35.01	-65.41	-13.00	52.41	136	360	Horizontal
4	8617.9500	36.70	-41.40	36.49	-63.46	-13.00	50.46	251	46	Horizontal
5	10341.5400	35.47	-39.06	38.37	-60.48	-13.00	47.48	144	61	Horizontal
6	12065.1300	33.26	-37.44	38.82	-60.62	-13.00	47.62	175	330	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.54	-46.27	28.57	-71.42	-13.00	58.42	258	8	Vertical
2	5170.7700	40.07	-45.31	31.81	-68.68	-13.00	55.68	196	242	Vertical
3	6894.3600	39.09	-44.10	35.01	-65.26	-13.00	52.26	254	8	Vertical
4	8617.9500	37.43	-41.40	36.49	-62.73	-13.00	49.73	175	8	Vertical
5	10341.5400	34.54	-39.06	38.37	-61.41	-13.00	48.41	153	17	Vertical
6	12065.1300	32.80	-37.44	38.82	-61.08	-13.00	48.08	261	1	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = High ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	41.78	-46.27	28.58	-71.16	-13.00	58.16	222	151	Horizontal
2	5208.2700	40.85	-45.26	31.90	-67.77	-13.00	54.77	155	60	Horizontal
3	6944.3600	39.42	-43.85	35.10	-64.59	-13.00	51.59	142	210	Horizontal
4	8680.4500	38.44	-41.62	36.46	-61.98	-13.00	48.98	156	60	Horizontal
5	10416.5400	33.78	-38.97	38.41	-62.05	-13.00	49.05	236	256	Horizontal
6	12152.6300	33.58	-37.42	38.85	-60.25	-13.00	47.25	259	165	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	41.96	-46.27	28.58	-70.98	-13.00	57.98	175	103	Vertical
2	5208.2700	40.37	-45.26	31.90	-68.25	-13.00	55.25	165	225	Vertical
3	6944.3600	39.43	-43.85	35.10	-64.58	-13.00	51.58	136	210	Vertical
4	8680.4500	37.25	-41.62	36.46	-63.17	-13.00	50.17	256	0	Vertical
5	10416.5400	33.62	-38.97	38.41	-62.21	-13.00	49.21	192	356	Vertical
6	12152.6300	32.89	-37.42	38.85	-60.94	-13.00	47.94	145	330	Vertical



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**Test Band = LTE Band4\_ TM1**

**Test Channel = Low ANT4**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.21	-46.28	28.55	-71.77	-13.00	58.77	278	29	Horizontal
2	5133.2700	39.71	-45.34	31.72	-69.17	-13.00	56.17	154	360	Horizontal
3	6844.3600	39.82	-44.14	34.92	-64.66	-13.00	51.66	186	285	Horizontal
4	8555.4500	37.31	-41.46	36.52	-62.89	-13.00	49.89	153	118	Horizontal
5	10266.5400	34.01	-39.23	38.33	-62.14	-13.00	49.14	261	118	Horizontal
6	11977.6300	32.67	-37.51	38.80	-61.31	-13.00	48.31	196	73	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.71	-46.28	28.55	-71.27	-13.00	58.27	166	315	Vertical
2	5133.2700	39.64	-45.34	31.72	-69.24	-13.00	56.24	259	272	Vertical
3	6844.3600	40.30	-44.14	34.92	-64.18	-13.00	51.18	185	195	Vertical
4	8555.4500	36.50	-41.46	36.52	-63.70	-13.00	50.70	136	2	Vertical
5	10266.5400	34.07	-39.23	38.33	-62.08	-13.00	49.08	251	330	Vertical
6	11977.6300	33.08	-37.51	38.80	-60.90	-13.00	47.90	144	1	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = Mid ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.92	-46.27	28.57	-71.04	-13.00	58.04	244	29	Horizontal
2	5170.7700	40.57	-45.31	31.81	-68.18	-13.00	55.18	186	359	Horizontal
3	6894.3600	39.66	-44.10	35.01	-64.69	-13.00	51.69	256	104	Horizontal
4	8617.9500	36.99	-41.40	36.49	-63.17	-13.00	50.17	136	3	Horizontal
5	10341.5400	34.66	-39.06	38.37	-61.29	-13.00	48.29	259	360	Horizontal
6	12065.1300	33.38	-37.44	38.82	-60.50	-13.00	47.50	191	284	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.79	-46.27	28.57	-71.17	-13.00	58.17	244	7	Vertical
2	5170.7700	40.38	-45.31	31.81	-68.37	-13.00	55.37	175	286	Vertical
3	6894.3600	39.65	-44.10	35.01	-64.70	-13.00	51.70	142	346	Vertical
4	8617.9500	37.00	-41.40	36.49	-63.16	-13.00	50.16	163	30	Vertical
5	10341.5400	34.27	-39.06	38.37	-61.68	-13.00	48.68	251	225	Vertical
6	12065.1300	34.33	-37.44	38.82	-59.55	-13.00	46.55	188	17	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = High ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.67	-46.27	28.58	-70.27	-13.00	57.27	124	359	Horizontal
2	5208.2700	40.33	-45.26	31.90	-68.29	-13.00	55.29	175	4	Horizontal
3	6944.3600	39.91	-43.85	35.10	-64.10	-13.00	51.10	136	4	Horizontal
4	8680.4500	37.68	-41.62	36.46	-62.74	-13.00	49.74	251	180	Horizontal
5	10416.5400	34.00	-38.97	38.41	-61.83	-13.00	48.83	149	360	Horizontal
6	12152.6300	33.02	-37.42	38.85	-60.81	-13.00	47.81	112	317	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	41.71	-46.27	28.58	-71.23	-13.00	58.23	142	287	Vertical
2	5208.2700	41.17	-45.26	31.90	-67.45	-13.00	54.45	156	31	Vertical
3	6944.3600	39.45	-43.85	35.10	-64.56	-13.00	51.56	187	317	Vertical
4	8680.4500	37.93	-41.62	36.46	-62.49	-13.00	49.49	142	301	Vertical
5	10416.5400	33.82	-38.97	38.41	-62.01	-13.00	49.01	163	357	Vertical
6	12152.6300	33.81	-37.42	38.85	-60.02	-13.00	47.02	126	347	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = Low ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.52	-46.28	28.55	-71.46	-13.00	58.46	142	44	Horizontal
2	5133.2700	39.75	-45.34	31.72	-69.13	-13.00	56.13	125	344	Horizontal
3	6844.3600	40.13	-44.14	34.92	-64.35	-13.00	51.35	133	181	Horizontal
4	8555.4500	36.67	-41.46	36.52	-63.53	-13.00	50.53	261	358	Horizontal
5	10266.5400	34.60	-39.23	38.33	-61.55	-13.00	48.55	144	44	Horizontal
6	11977.6300	33.13	-37.51	38.80	-60.85	-13.00	47.85	172	135	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	41.50	-46.28	28.55	-71.48	-13.00	58.48	245	357	Vertical
2	5133.2700	40.09	-45.34	31.72	-68.79	-13.00	55.79	175	270	Vertical
3	6844.3600	39.51	-44.14	34.92	-64.97	-13.00	51.97	166	18	Vertical
4	8555.4500	36.57	-41.46	36.52	-63.63	-13.00	50.63	256	62	Vertical
5	10266.5400	34.47	-39.23	38.33	-61.68	-13.00	48.68	192	0	Vertical
6	11977.6300	32.14	-37.51	38.80	-61.84	-13.00	48.84	144	255	Vertical



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Test Band = LTE Band4\_ TM1  
 Test Channel = Mid ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.79	-46.27	28.57	-71.17	-13.00	58.17	278	224	Horizontal
2	5170.7700	40.46	-45.31	31.81	-68.29	-13.00	55.29	186	43	Horizontal
3	6894.3600	39.06	-44.10	35.01	-65.29	-13.00	52.29	142	28	Horizontal
4	8617.9500	37.02	-41.40	36.49	-63.14	-13.00	50.14	165	88	Horizontal
5	10341.5400	34.27	-39.06	38.37	-61.68	-13.00	48.68	136	357	Horizontal
6	12065.1300	33.00	-37.44	38.82	-60.88	-13.00	47.88	165	192	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	41.23	-46.27	28.57	-71.73	-13.00	58.73	142	118	Vertical
2	5170.7700	40.36	-45.31	31.81	-68.39	-13.00	55.39	165	0	Vertical
3	6894.3600	39.20	-44.10	35.01	-65.15	-13.00	52.15	175	7	Vertical
4	8617.9500	36.69	-41.40	36.49	-63.47	-13.00	50.47	181	356	Vertical
5	10341.5400	34.68	-39.06	38.37	-61.27	-13.00	48.27	142	0	Vertical
6	12065.1300	33.25	-37.44	38.82	-60.63	-13.00	47.63	165	270	Vertical



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**Test Band = LTE Band4\_ TM1**

**Test Channel = High ANT5**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	41.91	-46.27	28.58	-71.03	-13.00	58.03	245	344	Horizontal
2	5208.2700	40.89	-45.26	31.90	-67.73	-13.00	54.73	186	360	Horizontal
3	6944.3600	39.20	-43.85	35.10	-64.81	-13.00	51.81	261	136	Horizontal
4	8680.4500	38.05	-41.62	36.46	-62.37	-13.00	49.37	133	212	Horizontal
5	10416.5400	33.44	-38.97	38.41	-62.39	-13.00	49.39	261	152	Horizontal
6	12152.6300	33.21	-37.42	38.85	-60.62	-13.00	47.62	145	106	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.71	-46.27	28.58	-70.23	-13.00	57.23	125	28	Vertical
2	5208.2700	40.82	-45.26	31.90	-67.80	-13.00	54.80	145	344	Vertical
3	6944.3600	40.00	-43.85	35.10	-64.01	-13.00	51.01	175	90	Vertical
4	8680.4500	38.04	-41.62	36.46	-62.38	-13.00	49.38	136	356	Vertical
5	10416.5400	33.79	-38.97	38.41	-62.04	-13.00	49.04	125	0	Vertical
6	12152.6300	32.68	-37.42	38.85	-61.15	-13.00	48.15	175	164	Vertical



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Test Band = LTE 4A\_7A\_TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	43.20	-46.28	28.55	-69.78	-25.00	44.78	233	303	Horizontal
2	5002.1800	41.42	-45.63	31.41	-68.07	-25.00	43.07	126	1	Horizontal
3	5133.2700	40.95	-45.34	31.72	-67.93	-25.00	42.93	154	101	Horizontal
4	6844.3600	40.72	-44.14	34.92	-63.76	-25.00	38.76	148	0	Horizontal
5	7503.2700	39.69	-43.13	36.60	-62.10	-25.00	37.10	175	208	Horizontal
6	10004.3600	36.05	-39.23	38.20	-60.24	-25.00	35.24	199	344	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	42.40	-46.28	28.55	-70.58	-25.00	45.58	255	351	Vertical
2	5002.1800	41.31	-45.63	31.41	-68.18	-25.00	43.18	142	179	Vertical
3	5133.2700	41.29	-45.34	31.72	-67.59	-25.00	42.59	188	139	Vertical
4	6844.3600	41.06	-44.14	34.92	-63.42	-25.00	38.42	193	359	Vertical
5	7503.2700	40.10	-43.13	36.60	-61.69	-25.00	36.69	261	4	Vertical
6	10004.3600	36.28	-39.23	38.20	-60.01	-25.00	35.01	152	139	Vertical



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Test Band = LTE 4A\_7A\_TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	42.85	-46.27	28.57	-70.11	-25.00	45.11	144	30	Horizontal
2	5052.1800	40.80	-45.50	31.53	-68.43	-25.00	43.43	186	71	Horizontal
3	5170.7700	41.44	-45.31	31.81	-67.32	-25.00	42.32	231	44	Horizontal
4	6894.3600	40.50	-44.10	35.01	-63.85	-25.00	38.85	166	290	Horizontal
5	7578.2700	39.58	-42.98	36.63	-62.02	-25.00	37.02	152	249	Horizontal
6	10104.3600	35.39	-39.14	38.25	-60.75	-25.00	35.75	177	58	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.08	-46.27	28.57	-69.88	-25.00	44.88	288	16	Vertical
2	5052.1800	41.58	-45.50	31.53	-67.65	-25.00	42.65	174	351	Vertical
3	5170.7700	42.89	-45.31	31.81	-65.87	-25.00	40.87	156	258	Vertical
4	6894.3600	40.88	-44.10	35.01	-63.47	-25.00	38.47	192	110	Vertical
5	7578.2700	39.01	-42.98	36.63	-62.59	-25.00	37.59	163	57	Vertical
6	10104.3600	36.04	-39.14	38.25	-60.10	-25.00	35.10	251	30	Vertical



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Test Band = LTE 4A\_7A\_TM1
Test Channel = High

Table with 11 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Table with 11 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level



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### Frequency Stability

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	0.40	0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	0.20	0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.90	-0.000519	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-3.10	-0.001789	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.90	-0.001097	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-2.90	-0.001674	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.70	-0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.70	-0.000981	PASS

---End of Attachment---



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