



Report No.: SEWA2205000015RG01

Rev.: 01

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# Appendix B.11

## LTE Band 25



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### Effective (Isotropic) Radiated Power Output Data

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	23.24	23.6	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	23.31	23.67	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	23.32	23.68	33	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	22.36	22.72	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	23.11	23.47	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	23.26	23.62	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	23.23	23.59	33	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	22.28	22.64	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	23.14	23.5	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	23.28	23.64	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	23.23	23.59	33	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	22.27	22.63	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	22.7	23.06	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	22.82	23.18	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	22.73	23.09	33	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	21.5	21.86	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	22.51	22.87	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	22.62	22.98	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	22.55	22.91	33	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	21.35	21.71	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	22.53	22.89	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	22.6	22.96	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	22.61	22.97	33	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	21.34	21.7	33	PASS
Band25	1.4MHz	64QAM	26047	1RB#0	21.51	21.87	33	PASS
Band25	1.4MHz	64QAM	26047	1RB#2	21.66	22.02	33	PASS
Band25	1.4MHz	64QAM	26047	1RB#5	21.61	21.97	33	PASS
Band25	1.4MHz	64QAM	26047	6RB#0	20.35	20.71	33	PASS



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Band25	1.4MHz	64QAM	26365	1RB#0	21.44	21.8	33	PASS
Band25	1.4MHz	64QAM	26365	1RB#2	21.62	21.98	33	PASS
Band25	1.4MHz	64QAM	26365	1RB#5	21.57	21.93	33	PASS
Band25	1.4MHz	64QAM	26365	6RB#0	20.3	20.66	33	PASS
Band25	1.4MHz	64QAM	26683	1RB#0	21.37	21.73	33	PASS
Band25	1.4MHz	64QAM	26683	1RB#2	21.51	21.87	33	PASS
Band25	1.4MHz	64QAM	26683	1RB#5	21.46	21.82	33	PASS
Band25	1.4MHz	64QAM	26683	6RB#0	20.24	20.6	33	PASS
Band25	3MHz	QPSK	26055	1RB#0	23.28	23.64	33	PASS
Band25	3MHz	QPSK	26055	1RB#8	23.46	23.82	33	PASS
Band25	3MHz	QPSK	26055	1RB#14	23.39	23.75	33	PASS
Band25	3MHz	QPSK	26055	15RB#0	22.45	22.81	33	PASS
Band25	3MHz	QPSK	26365	1RB#0	23.27	23.63	33	PASS
Band25	3MHz	QPSK	26365	1RB#8	23.4	23.76	33	PASS
Band25	3MHz	QPSK	26365	1RB#14	23.4	23.76	33	PASS
Band25	3MHz	QPSK	26365	15RB#0	22.34	22.7	33	PASS
Band25	3MHz	QPSK	26675	1RB#0	23.18	23.54	33	PASS
Band25	3MHz	QPSK	26675	1RB#8	23.37	23.73	33	PASS
Band25	3MHz	QPSK	26675	1RB#14	23.44	23.8	33	PASS
Band25	3MHz	QPSK	26675	15RB#0	22.45	22.81	33	PASS
Band25	3MHz	16QAM	26055	1RB#0	22.57	22.93	33	PASS
Band25	3MHz	16QAM	26055	1RB#8	22.71	23.07	33	PASS
Band25	3MHz	16QAM	26055	1RB#14	22.83	23.19	33	PASS
Band25	3MHz	16QAM	26055	15RB#0	21.45	21.81	33	PASS
Band25	3MHz	16QAM	26365	1RB#0	22.49	22.85	33	PASS
Band25	3MHz	16QAM	26365	1RB#8	22.74	23.1	33	PASS
Band25	3MHz	16QAM	26365	1RB#14	22.75	23.11	33	PASS
Band25	3MHz	16QAM	26365	15RB#0	21.38	21.74	33	PASS
Band25	3MHz	16QAM	26675	1RB#0	22.57	22.93	33	PASS
Band25	3MHz	16QAM	26675	1RB#8	22.73	23.09	33	PASS
Band25	3MHz	16QAM	26675	1RB#14	22.73	23.09	33	PASS
Band25	3MHz	16QAM	26675	15RB#0	21.38	21.74	33	PASS
Band25	3MHz	64QAM	26055	1RB#0	21.57	21.93	33	PASS



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Band25	3MHz	64QAM	26055	1RB#8	21.7	22.06	33	PASS
Band25	3MHz	64QAM	26055	1RB#14	21.72	22.08	33	PASS
Band25	3MHz	64QAM	26055	15RB#0	20.5	20.86	33	PASS
Band25	3MHz	64QAM	26365	1RB#0	21.49	21.85	33	PASS
Band25	3MHz	64QAM	26365	1RB#8	21.63	21.99	33	PASS
Band25	3MHz	64QAM	26365	1RB#14	21.66	22.02	33	PASS
Band25	3MHz	64QAM	26365	15RB#0	20.39	20.75	33	PASS
Band25	3MHz	64QAM	26675	1RB#0	21.54	21.9	33	PASS
Band25	3MHz	64QAM	26675	1RB#8	21.55	21.91	33	PASS
Band25	3MHz	64QAM	26675	1RB#14	21.62	21.98	33	PASS
Band25	3MHz	64QAM	26675	15RB#0	20.4	20.76	33	PASS
Band25	5MHz	QPSK	26065	1RB#0	23.4	23.76	33	PASS
Band25	5MHz	QPSK	26065	1RB#12	23.49	23.85	33	PASS
Band25	5MHz	QPSK	26065	1RB#24	23.4	23.76	33	PASS
Band25	5MHz	QPSK	26065	25RB#0	22.46	22.82	33	PASS
Band25	5MHz	QPSK	26365	1RB#0	23.21	23.57	33	PASS
Band25	5MHz	QPSK	26365	1RB#12	23.41	23.77	33	PASS
Band25	5MHz	QPSK	26365	1RB#24	23.32	23.68	33	PASS
Band25	5MHz	QPSK	26365	25RB#0	22.36	22.72	33	PASS
Band25	5MHz	QPSK	26665	1RB#0	23.24	23.6	33	PASS
Band25	5MHz	QPSK	26665	1RB#12	23.34	23.7	33	PASS
Band25	5MHz	QPSK	26665	1RB#24	23.4	23.76	33	PASS
Band25	5MHz	QPSK	26665	25RB#0	22.39	22.75	33	PASS
Band25	5MHz	16QAM	26065	1RB#0	22.67	23.03	33	PASS
Band25	5MHz	16QAM	26065	1RB#12	22.63	22.99	33	PASS
Band25	5MHz	16QAM	26065	1RB#24	22.64	23	33	PASS
Band25	5MHz	16QAM	26065	25RB#0	21.44	21.8	33	PASS
Band25	5MHz	16QAM	26365	1RB#0	22.59	22.95	33	PASS
Band25	5MHz	16QAM	26365	1RB#12	22.58	22.94	33	PASS
Band25	5MHz	16QAM	26365	1RB#24	22.6	22.96	33	PASS
Band25	5MHz	16QAM	26365	25RB#0	21.16	21.52	33	PASS
Band25	5MHz	16QAM	26665	1RB#0	22.48	22.84	33	PASS
Band25	5MHz	16QAM	26665	1RB#12	22.68	23.04	33	PASS



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Band25	5MHz	16QAM	26665	1RB#24	22.66	23.02	33	PASS
Band25	5MHz	16QAM	26665	25RB#0	21.42	21.78	33	PASS
Band25	5MHz	64QAM	26065	1RB#0	21.67	22.03	33	PASS
Band25	5MHz	64QAM	26065	1RB#12	21.63	21.99	33	PASS
Band25	5MHz	64QAM	26065	1RB#24	21.61	21.97	33	PASS
Band25	5MHz	64QAM	26065	25RB#0	20.47	20.83	33	PASS
Band25	5MHz	64QAM	26365	1RB#0	21.54	21.9	33	PASS
Band25	5MHz	64QAM	26365	1RB#12	21.58	21.94	33	PASS
Band25	5MHz	64QAM	26365	1RB#24	21.58	21.94	33	PASS
Band25	5MHz	64QAM	26365	25RB#0	20.4	20.76	33	PASS
Band25	5MHz	64QAM	26665	1RB#0	21.47	21.83	33	PASS
Band25	5MHz	64QAM	26665	1RB#12	21.56	21.92	33	PASS
Band25	5MHz	64QAM	26665	1RB#24	21.62	21.98	33	PASS
Band25	5MHz	64QAM	26665	25RB#0	20.41	20.77	33	PASS
Band25	10MHz	QPSK	26090	1RB#0	23.45	23.81	33	PASS
Band25	10MHz	QPSK	26090	1RB#24	23.38	23.74	33	PASS
Band25	10MHz	QPSK	26090	1RB#49	23.34	23.7	33	PASS
Band25	10MHz	QPSK	26090	50RB#0	22.43	22.79	33	PASS
Band25	10MHz	QPSK	26365	1RB#0	23.26	23.62	33	PASS
Band25	10MHz	QPSK	26365	1RB#24	23.3	23.66	33	PASS
Band25	10MHz	QPSK	26365	1RB#49	23.22	23.58	33	PASS
Band25	10MHz	QPSK	26365	50RB#0	22.33	22.69	33	PASS
Band25	10MHz	QPSK	26640	1RB#0	23.27	23.63	33	PASS
Band25	10MHz	QPSK	26640	1RB#24	23.29	23.65	33	PASS
Band25	10MHz	QPSK	26640	1RB#49	23.43	23.79	33	PASS
Band25	10MHz	QPSK	26640	50RB#0	22.31	22.67	33	PASS
Band25	10MHz	16QAM	26090	1RB#0	22.79	23.15	33	PASS
Band25	10MHz	16QAM	26090	1RB#24	22.69	23.05	33	PASS
Band25	10MHz	16QAM	26090	1RB#49	22.79	23.15	33	PASS
Band25	10MHz	16QAM	26090	50RB#0	21.43	21.79	33	PASS
Band25	10MHz	16QAM	26365	1RB#0	22.57	22.93	33	PASS
Band25	10MHz	16QAM	26365	1RB#24	22.68	23.04	33	PASS
Band25	10MHz	16QAM	26365	1RB#49	22.61	22.97	33	PASS



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Band25	10MHz	16QAM	26365	50RB#0	21.42	21.78	33	PASS
Band25	10MHz	16QAM	26640	1RB#0	22.78	23.14	33	PASS
Band25	10MHz	16QAM	26640	1RB#24	22.71	23.07	33	PASS
Band25	10MHz	16QAM	26640	1RB#49	22.74	23.1	33	PASS
Band25	10MHz	16QAM	26640	50RB#0	21.39	21.75	33	PASS
Band25	10MHz	64QAM	26090	1RB#0	21.55	21.91	33	PASS
Band25	10MHz	64QAM	26090	1RB#24	21.53	21.89	33	PASS
Band25	10MHz	64QAM	26090	1RB#49	21.61	21.97	33	PASS
Band25	10MHz	64QAM	26090	50RB#0	20.5	20.86	33	PASS
Band25	10MHz	64QAM	26365	1RB#0	21.4	21.76	33	PASS
Band25	10MHz	64QAM	26365	1RB#24	21.6	21.96	33	PASS
Band25	10MHz	64QAM	26365	1RB#49	21.51	21.87	33	PASS
Band25	10MHz	64QAM	26365	50RB#0	20.37	20.73	33	PASS
Band25	10MHz	64QAM	26640	1RB#0	21.41	21.77	33	PASS
Band25	10MHz	64QAM	26640	1RB#24	21.67	22.03	33	PASS
Band25	10MHz	64QAM	26640	1RB#49	21.6	21.96	33	PASS
Band25	10MHz	64QAM	26640	50RB#0	20.49	20.85	33	PASS
Band25	15MHz	QPSK	26115	1RB#0	23.27	23.63	33	PASS
Band25	15MHz	QPSK	26115	1RB#38	23.31	23.67	33	PASS
Band25	15MHz	QPSK	26115	1RB#74	23.23	23.59	33	PASS
Band25	15MHz	QPSK	26115	75RB#0	22.41	22.77	33	PASS
Band25	15MHz	QPSK	26365	1RB#0	23.29	23.65	33	PASS
Band25	15MHz	QPSK	26365	1RB#38	23.27	23.63	33	PASS
Band25	15MHz	QPSK	26365	1RB#74	23.29	23.65	33	PASS
Band25	15MHz	QPSK	26365	75RB#0	22.38	22.74	33	PASS
Band25	15MHz	QPSK	26615	1RB#0	23.26	23.62	33	PASS
Band25	15MHz	QPSK	26615	1RB#38	23.22	23.58	33	PASS
Band25	15MHz	QPSK	26615	1RB#74	23.24	23.6	33	PASS
Band25	15MHz	QPSK	26615	75RB#0	22.44	22.8	33	PASS
Band25	15MHz	16QAM	26115	1RB#0	22.56	22.92	33	PASS
Band25	15MHz	16QAM	26115	1RB#38	22.75	23.11	33	PASS
Band25	15MHz	16QAM	26115	1RB#74	22.58	22.94	33	PASS
Band25	15MHz	16QAM	26115	75RB#0	21.4	21.76	33	PASS



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Band25	15MHz	16QAM	26365	1RB#0	22.54	22.9	33	PASS
Band25	15MHz	16QAM	26365	1RB#38	22.6	22.96	33	PASS
Band25	15MHz	16QAM	26365	1RB#74	22.61	22.97	33	PASS
Band25	15MHz	16QAM	26365	75RB#0	21.32	21.68	33	PASS
Band25	15MHz	16QAM	26615	1RB#0	22.56	22.92	33	PASS
Band25	15MHz	16QAM	26615	1RB#38	22.6	22.96	33	PASS
Band25	15MHz	16QAM	26615	1RB#74	22.69	23.05	33	PASS
Band25	15MHz	16QAM	26615	75RB#0	21.42	21.78	33	PASS
Band25	15MHz	64QAM	26115	1RB#0	21.44	21.8	33	PASS
Band25	15MHz	64QAM	26115	1RB#38	21.51	21.87	33	PASS
Band25	15MHz	64QAM	26115	1RB#74	21.61	21.97	33	PASS
Band25	15MHz	64QAM	26115	75RB#0	20.51	20.87	33	PASS
Band25	15MHz	64QAM	26365	1RB#0	21.46	21.82	33	PASS
Band25	15MHz	64QAM	26365	1RB#38	21.48	21.84	33	PASS
Band25	15MHz	64QAM	26365	1RB#74	21.53	21.89	33	PASS
Band25	15MHz	64QAM	26365	75RB#0	20.4	20.76	33	PASS
Band25	15MHz	64QAM	26615	1RB#0	21.66	22.02	33	PASS
Band25	15MHz	64QAM	26615	1RB#38	21.57	21.93	33	PASS
Band25	15MHz	64QAM	26615	1RB#74	21.54	21.9	33	PASS
Band25	15MHz	64QAM	26615	75RB#0	20.41	20.77	33	PASS
Band25	20MHz	QPSK	26140	1RB#0	23.28	23.64	33	PASS
Band25	20MHz	QPSK	26140	1RB#49	23.29	23.65	33	PASS
Band25	20MHz	QPSK	26140	1RB#99	23.18	23.54	33	PASS
Band25	20MHz	QPSK	26140	100RB#0	22.45	22.81	33	PASS
Band25	20MHz	QPSK	26365	1RB#0	23.25	23.61	33	PASS
Band25	20MHz	QPSK	26365	1RB#49	23.24	23.6	33	PASS
Band25	20MHz	QPSK	26365	1RB#99	23.33	23.69	33	PASS
Band25	20MHz	QPSK	26365	100RB#0	22.39	22.75	33	PASS
Band25	20MHz	QPSK	26590	1RB#0	23.28	23.64	33	PASS
Band25	20MHz	QPSK	26590	1RB#49	23.25	23.61	33	PASS
Band25	20MHz	QPSK	26590	1RB#99	23.19	23.55	33	PASS
Band25	20MHz	QPSK	26590	100RB#0	22.4	22.76	33	PASS
Band25	20MHz	16QAM	26140	1RB#0	22.51	22.87	33	PASS



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Report No.: SEWA2205000015RG01

Rev.: 01

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Band25	20MHz	16QAM	26140	1RB#49	22.45	22.81	33	PASS
Band25	20MHz	16QAM	26140	1RB#99	22.74	23.1	33	PASS
Band25	20MHz	16QAM	26140	100RB#0	21.49	21.85	33	PASS
Band25	20MHz	16QAM	26365	1RB#0	22.67	23.03	33	PASS
Band25	20MHz	16QAM	26365	1RB#49	22.59	22.95	33	PASS
Band25	20MHz	16QAM	26365	1RB#99	22.6	22.96	33	PASS
Band25	20MHz	16QAM	26365	100RB#0	21.47	21.83	33	PASS
Band25	20MHz	16QAM	26590	1RB#0	22.61	22.97	33	PASS
Band25	20MHz	16QAM	26590	1RB#49	22.69	23.05	33	PASS
Band25	20MHz	16QAM	26590	1RB#99	22.52	22.88	33	PASS
Band25	20MHz	16QAM	26590	100RB#0	21.44	21.8	33	PASS
Band25	20MHz	64QAM	26140	1RB#0	21.54	21.9	33	PASS
Band25	20MHz	64QAM	26140	1RB#49	21.56	21.92	33	PASS
Band25	20MHz	64QAM	26140	1RB#99	21.63	21.99	33	PASS
Band25	20MHz	64QAM	26140	100RB#0	20.49	20.85	33	PASS
Band25	20MHz	64QAM	26365	1RB#0	21.44	21.8	33	PASS
Band25	20MHz	64QAM	26365	1RB#49	21.52	21.88	33	PASS
Band25	20MHz	64QAM	26365	1RB#99	21.6	21.96	33	PASS
Band25	20MHz	64QAM	26365	100RB#0	20.38	20.74	33	PASS
Band25	20MHz	64QAM	26590	1RB#0	21.53	21.89	33	PASS
Band25	20MHz	64QAM	26590	1RB#49	21.55	21.91	33	PASS
Band25	20MHz	64QAM	26590	1RB#99	21.5	21.86	33	PASS
Band25	20MHz	64QAM	26590	100RB#0	20.39	20.75	33	PASS



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

#### Test Result

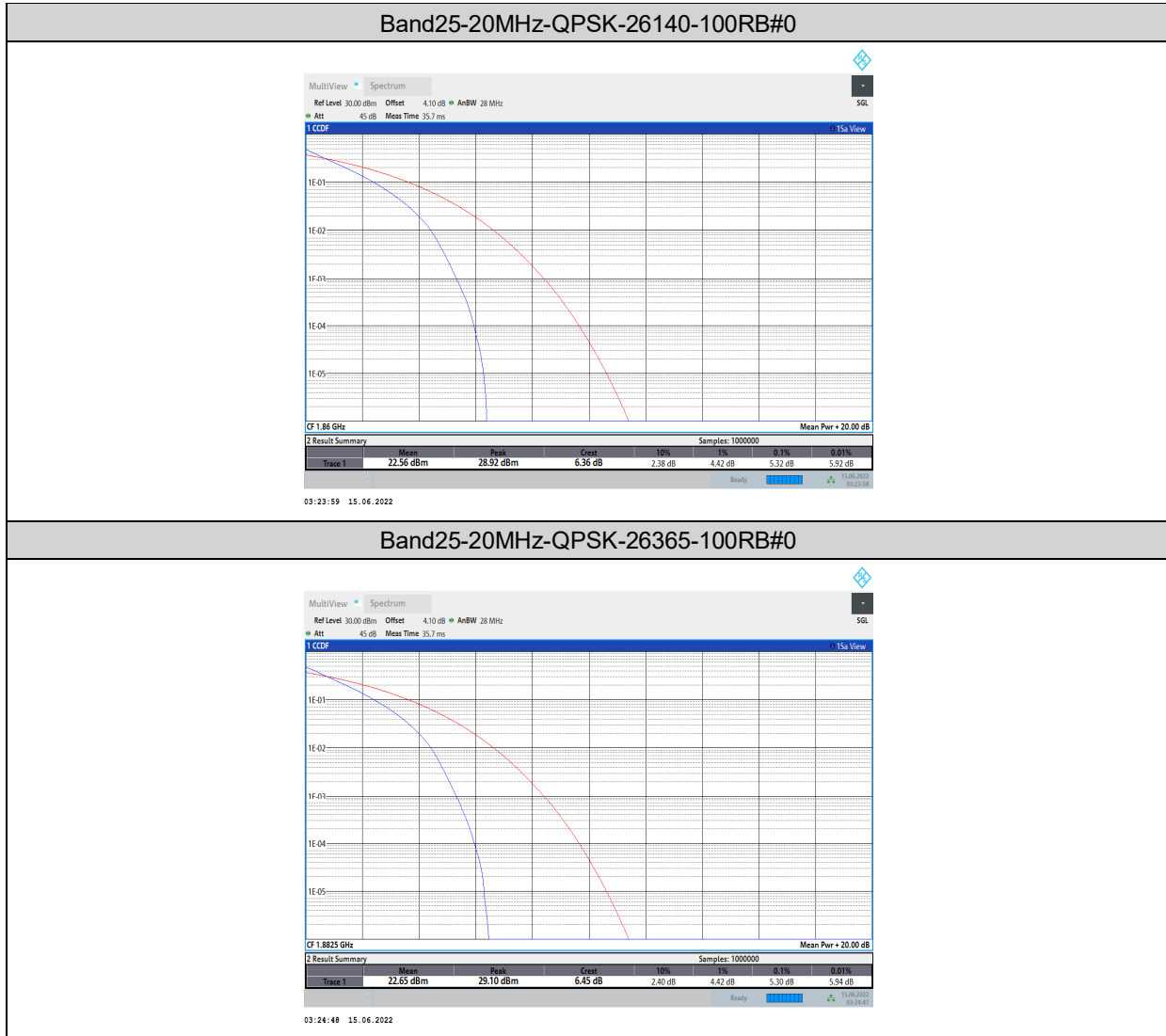
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	5.32	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.30	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	5.42	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.14	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.02	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.18	13	PASS
Band25	20MHz	64QAM	26140	100RB#0	6.64	13	PASS
Band25	20MHz	64QAM	26365	100RB#0	6.54	13	PASS
Band25	20MHz	64QAM	26590	100RB#0	6.80	13	PASS



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Test Graphs



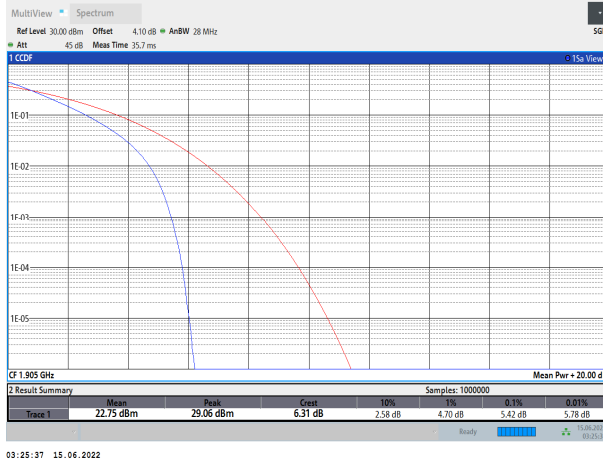
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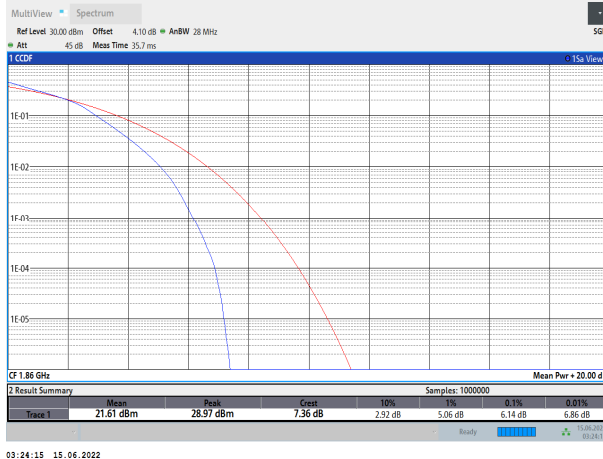


Band25-20MHz-QPSK-26590-100RB#0



03:25:37 15.06.2022

Band25-20MHz-16QAM-26140-100RB#0



03:24:15 15.06.2022



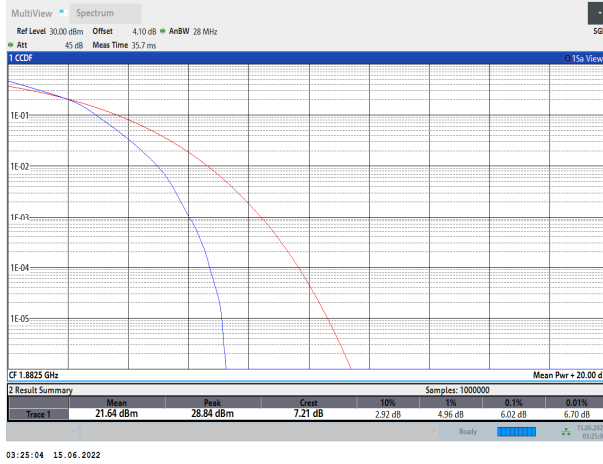
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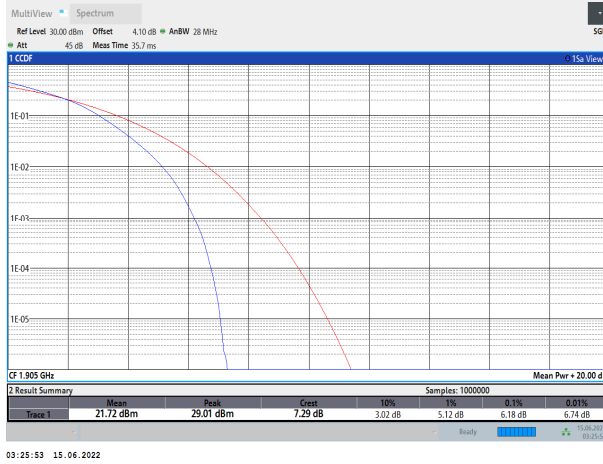
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Band25-20MHz-16QAM-26365-100RB#0



Band25-20MHz-16QAM-26590-100RB#0



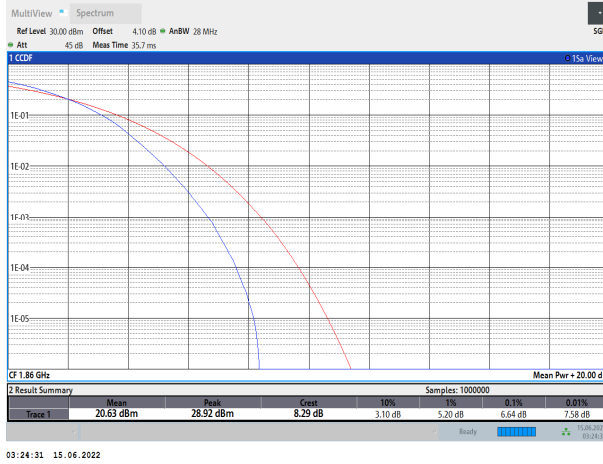
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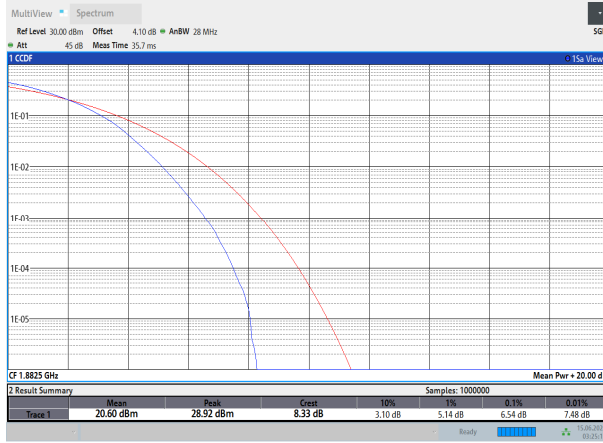


Band25-20MHz-64QAM-26140-100RB#0



03:24:31 15. 06. 2022

Band25-20MHz-64QAM-26365-100RB#0



03:25:20 15. 06. 2022



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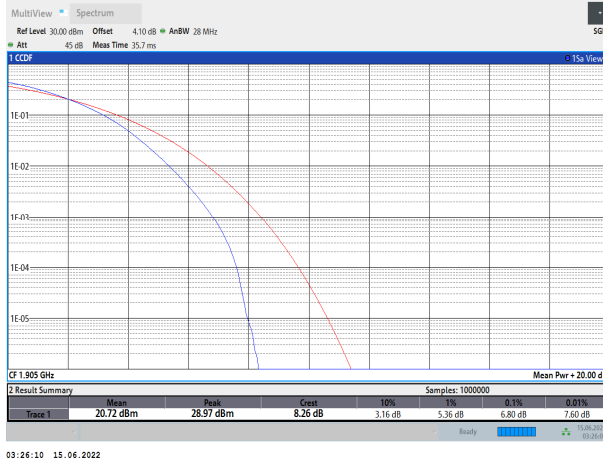
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Band25-20MHz-64QAM-26590-100RB#0



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### Modulation Characteristics

#### Test Result

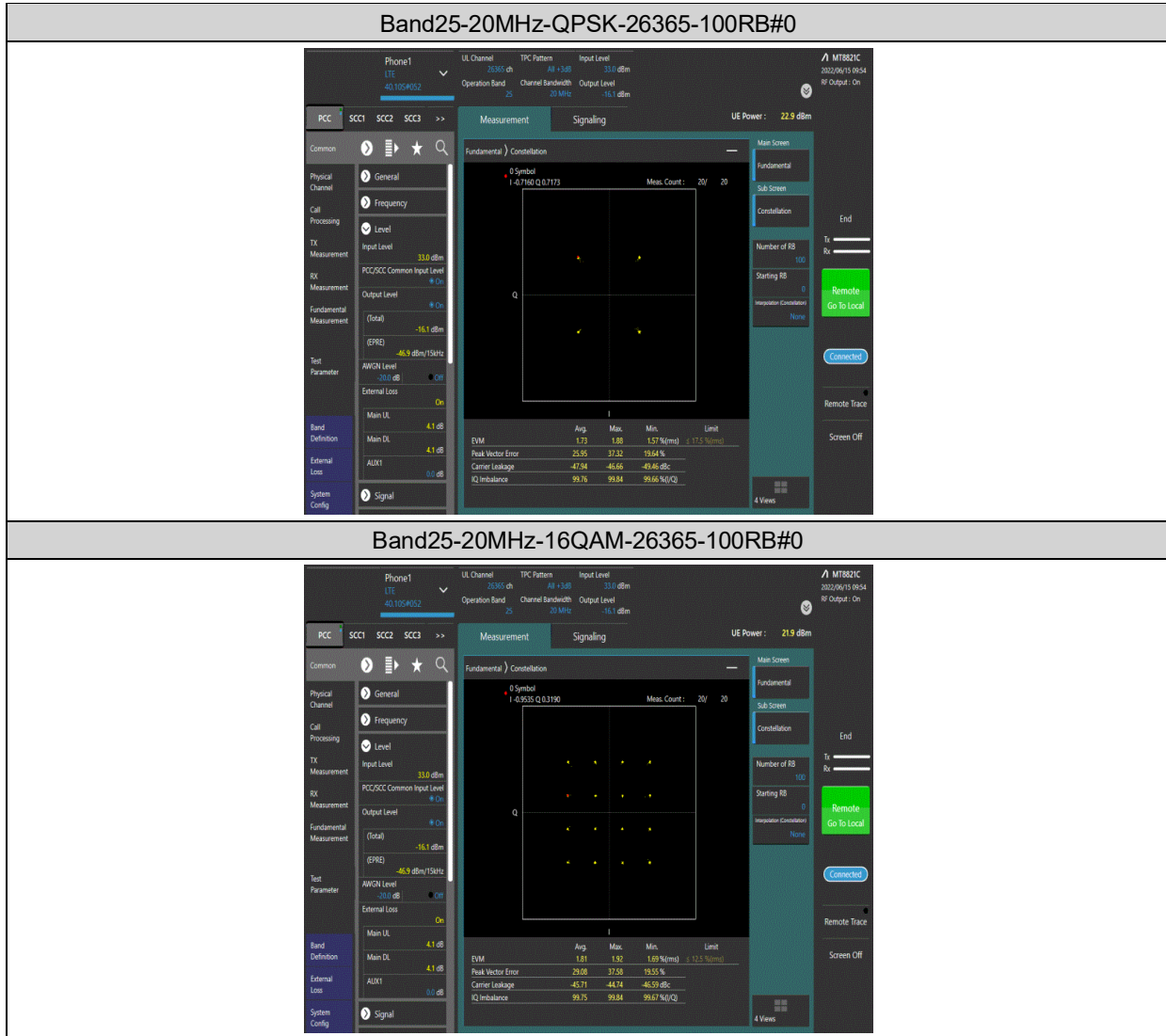
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band25	20MHz	QPSK	26365	100RB#0	PASS	PASS
Band25	20MHz	16QAM	26365	100RB#0	PASS	PASS
Band25	20MHz	64QAM	26365	100RB#0	PASS	PASS



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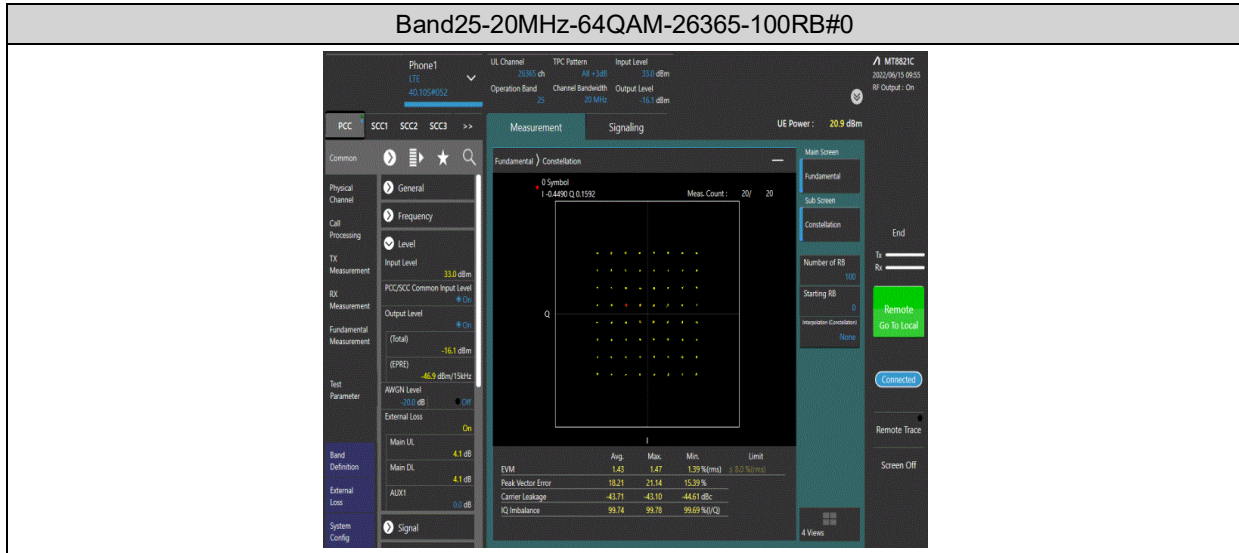
Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.085	1.22	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.084	1.24	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.086	1.23	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.094	1.25	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.090	1.25	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.094	1.24	PASS
Band25	1.4MHz	64QAM	26047	6RB#0	1.092	1.23	PASS
Band25	1.4MHz	64QAM	26365	6RB#0	1.092	1.23	PASS
Band25	1.4MHz	64QAM	26683	6RB#0	1.091	1.23	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.692	2.96	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.693	2.99	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.689	2.98	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.684	3.00	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.686	3.00	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.686	2.99	PASS
Band25	3MHz	64QAM	26055	15RB#0	2.687	2.97	PASS
Band25	3MHz	64QAM	26365	15RB#0	2.687	2.96	PASS
Band25	3MHz	64QAM	26675	15RB#0	2.690	2.98	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.467	4.88	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.466	4.87	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.468	4.89	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.469	4.90	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.470	4.90	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.465	4.91	PASS
Band25	5MHz	64QAM	26065	25RB#0	4.480	4.89	PASS
Band25	5MHz	64QAM	26365	25RB#0	4.472	4.90	PASS
Band25	5MHz	64QAM	26665	25RB#0	4.475	4.91	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.915	9.64	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.923	9.60	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.923	9.60	PASS
Band25	10MHz	16QAM	26090	50RB#0	8.923	9.68	PASS



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Rev.: 01

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Band25	10MHz	16QAM	26365	50RB#0	8.907	9.60	PASS
Band25	10MHz	16QAM	26640	50RB#0	8.906	9.60	PASS
Band25	10MHz	64QAM	26090	50RB#0	8.916	9.60	PASS
Band25	10MHz	64QAM	26365	50RB#0	8.922	9.62	PASS
Band25	10MHz	64QAM	26640	50RB#0	8.916	9.66	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.453	14.82	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.459	14.79	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.460	14.82	PASS
Band25	15MHz	16QAM	26115	75RB#0	13.426	14.79	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.450	14.73	PASS
Band25	15MHz	16QAM	26615	75RB#0	13.452	14.64	PASS
Band25	15MHz	64QAM	26115	75RB#0	13.422	14.76	PASS
Band25	15MHz	64QAM	26365	75RB#0	13.424	14.76	PASS
Band25	15MHz	64QAM	26615	75RB#0	13.429	14.79	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.890	19.52	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.931	19.52	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.920	19.52	PASS
Band25	20MHz	16QAM	26140	100RB#0	17.858	19.48	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.890	19.40	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.893	19.40	PASS
Band25	20MHz	64QAM	26140	100RB#0	17.847	19.56	PASS
Band25	20MHz	64QAM	26365	100RB#0	17.865	19.44	PASS
Band25	20MHz	64QAM	26590	100RB#0	17.878	19.56	PASS



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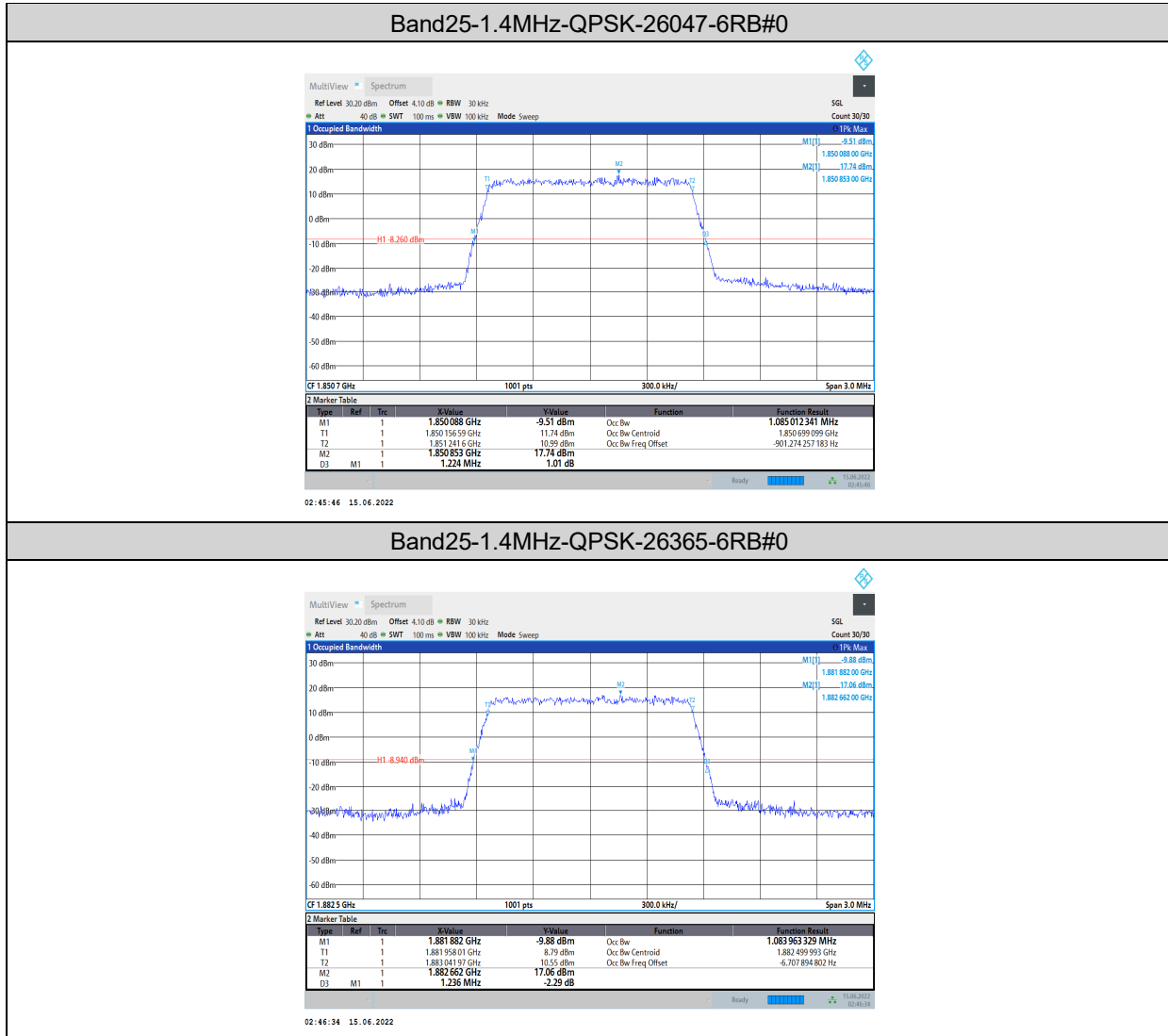
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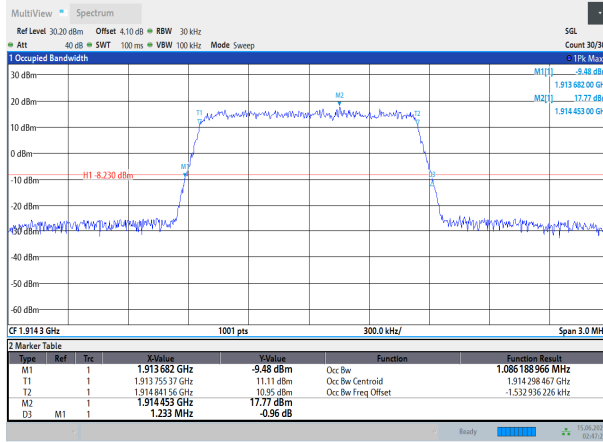
Test Graphs



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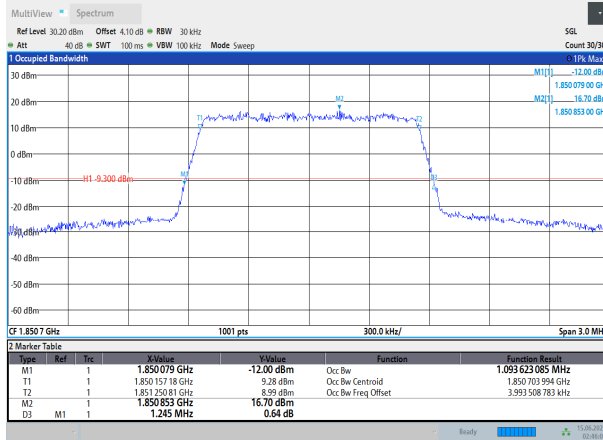
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Band25-1.4MHz-QPSK-26683-6RB#0



02:47:23 15.06.2022

Band25-1.4MHz-16QAM-26047-6RB#0



02:46:02 15.06.2022

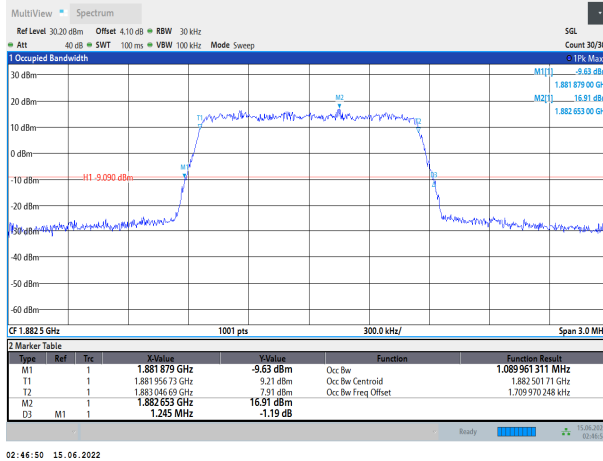


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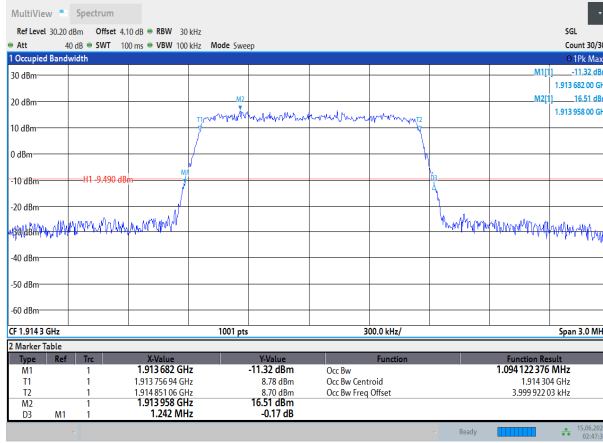
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Band25-1.4MHz-16QAM-26365-6RB#0



02:46:50 15.06.2022

Band25-1.4MHz-16QAM-26683-6RB#0



02:47:39 15.06.2022

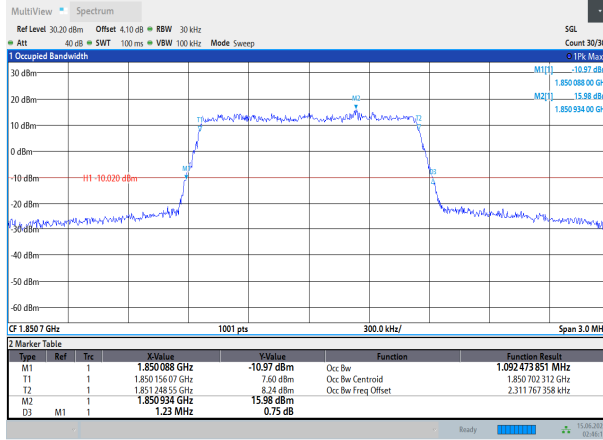


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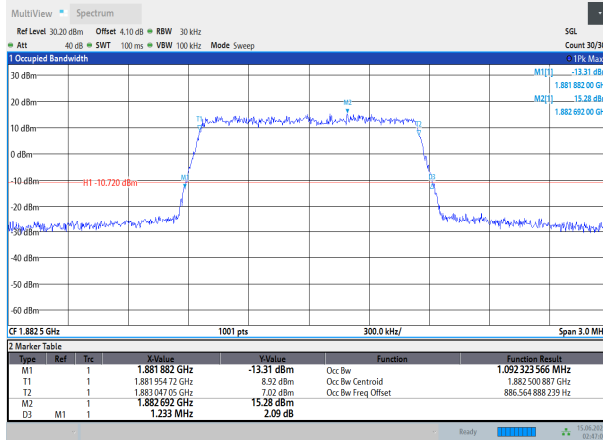
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Band25-1.4MHz-64QAM-26047-6RB#0



02:46:18 15.06.2022

Band25-1.4MHz-64QAM-26365-6RB#0



02:47:07 15.06.2022



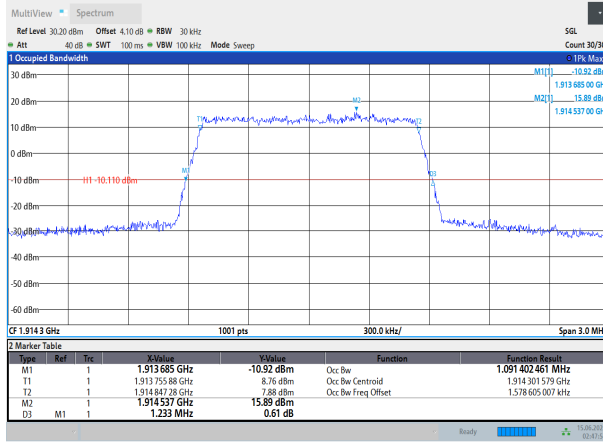
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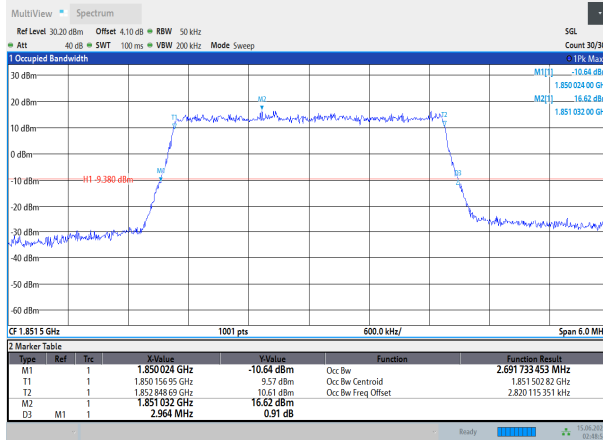


Band25-1.4MHz-64QAM-26683-6RB#0



02:47:55 15.06.2022

Band25-3MHz-QPSK-26055-15RB#0



02:48:54 15.06.2022



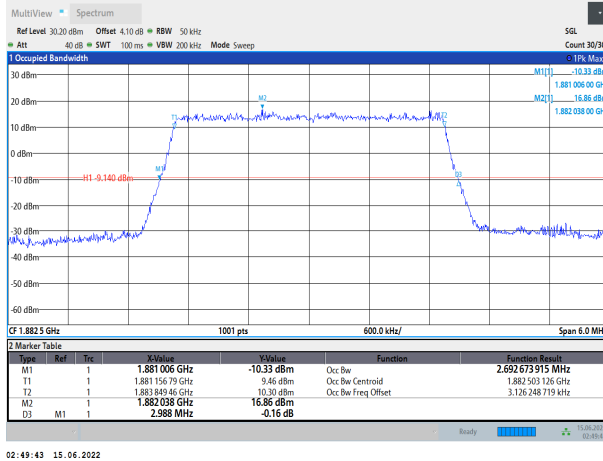
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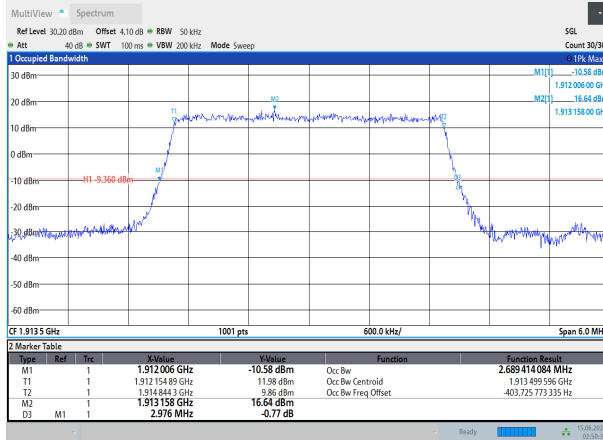


Band25-3MHz-QPSK-26365-15RB#0



02:49:43 15.06.2022

Band25-3MHz-QPSK-26675-15RB#0



02:50:31 15.06.2022



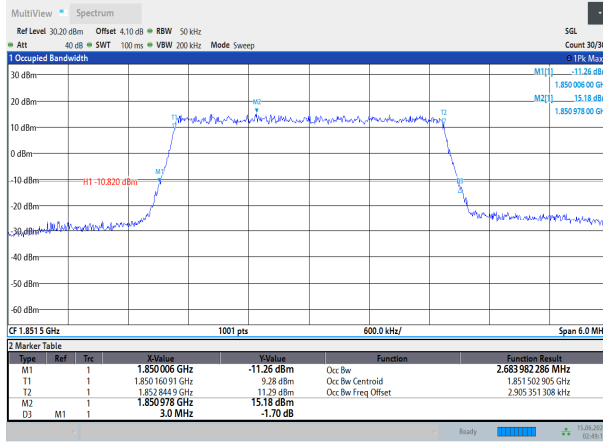
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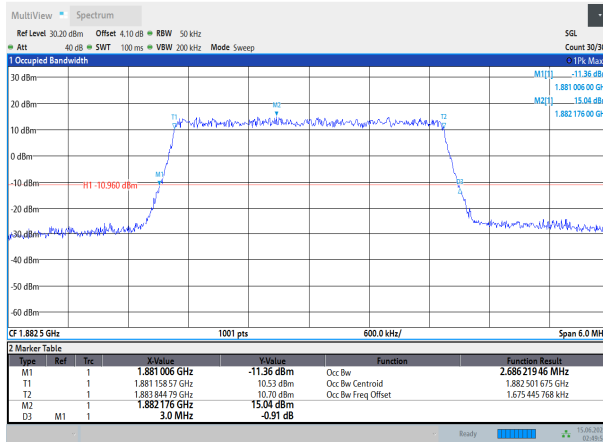


Band25-3MHz-16QAM-26055-15RB#0



02:49:10 15.06.2022

Band25-3MHz-16QAM-26365-15RB#0



02:49:59 15.06.2022



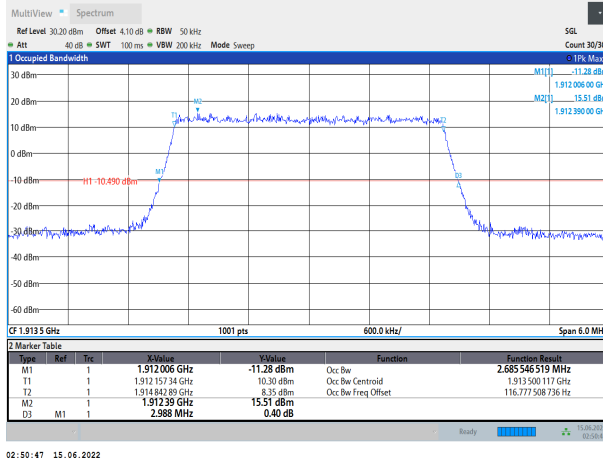
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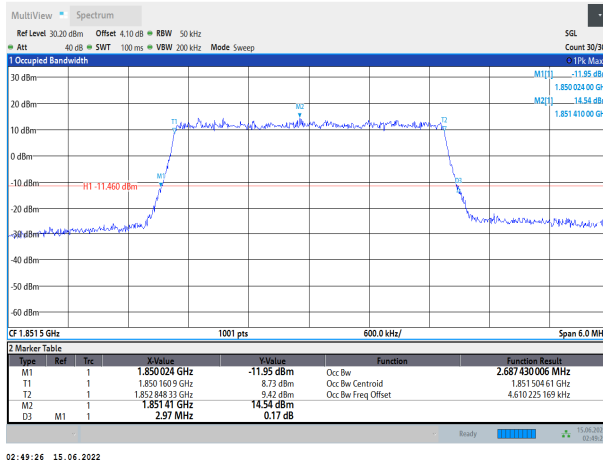
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Band25-3MHz-16QAM-26675-15RB#0



Band25-3MHz-64QAM-26055-15RB#0

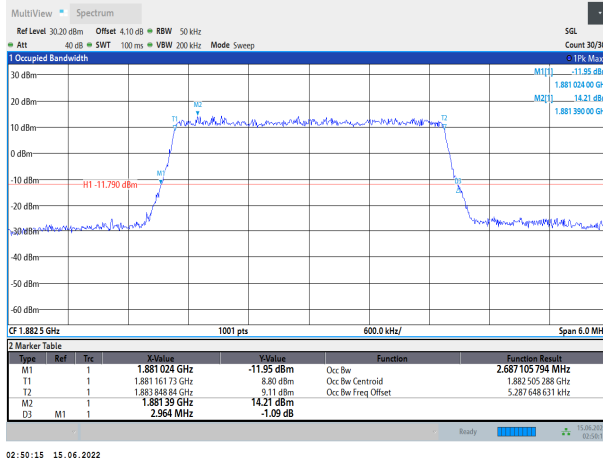


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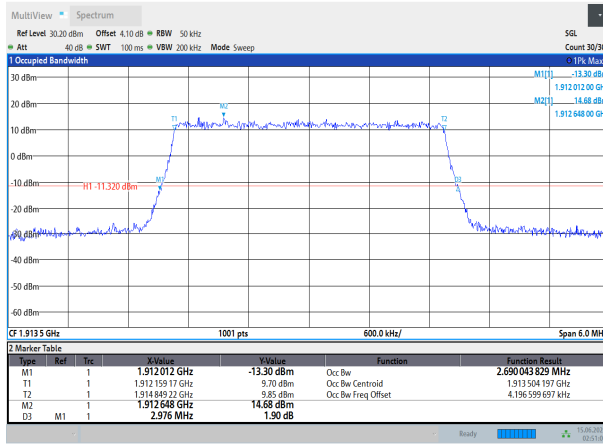
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Band25-3MHz-64QAM-26365-15RB#0



02:50:15 15.06.2022

Band25-3MHz-64QAM-26675-15RB#0



02:51:03 15.06.2022



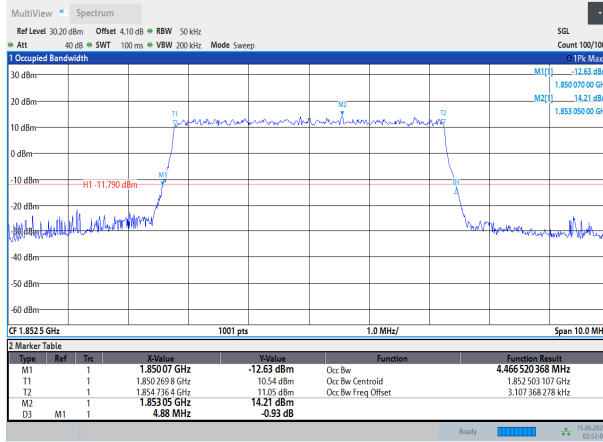
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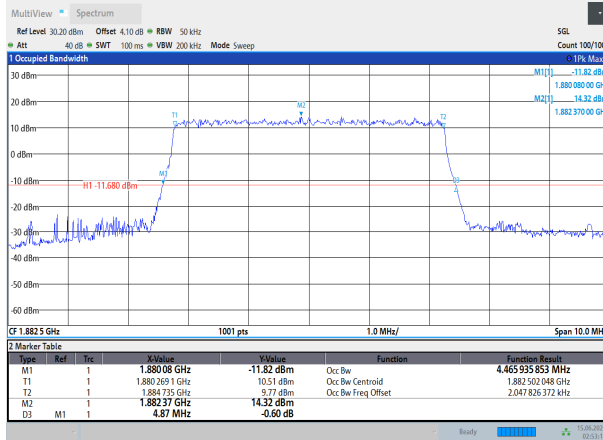


Band25-5MHz-QPSK-26065-25RB#0



02:52:08 15.06.2022

Band25-5MHz-QPSK-26365-25RB#0



02:53:17 15.06.2022



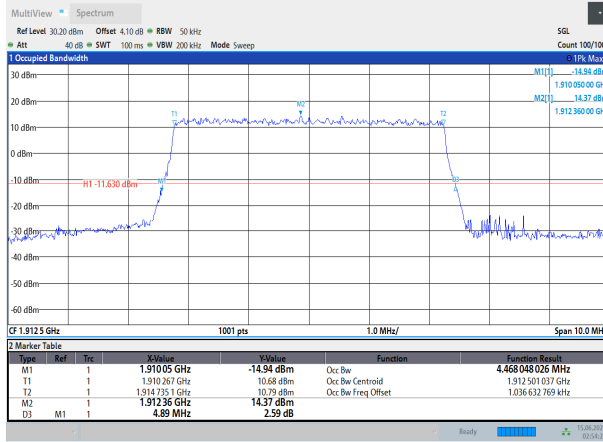
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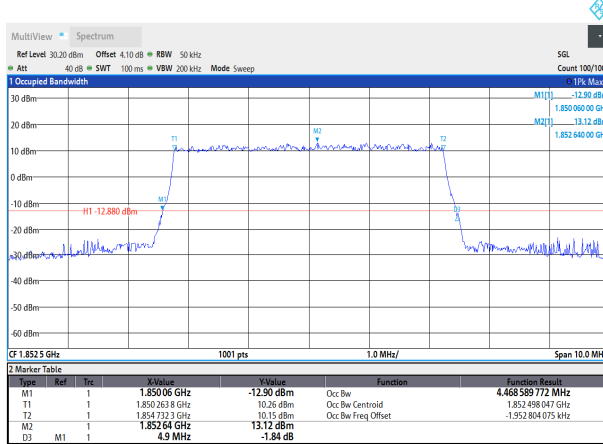


Band25-5MHz-QPSK-26665-25RB#0



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Band25-5MHz-16QAM-26065-25RB#0



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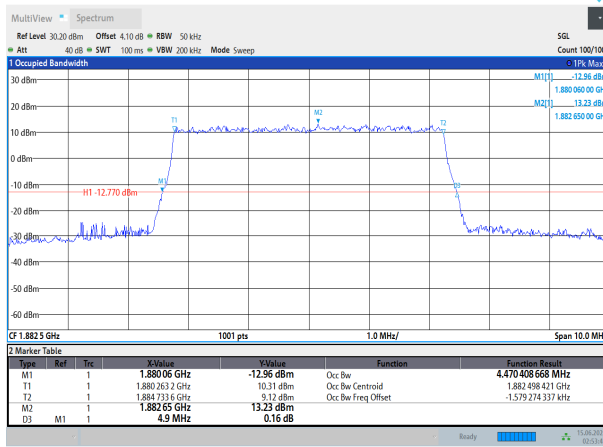
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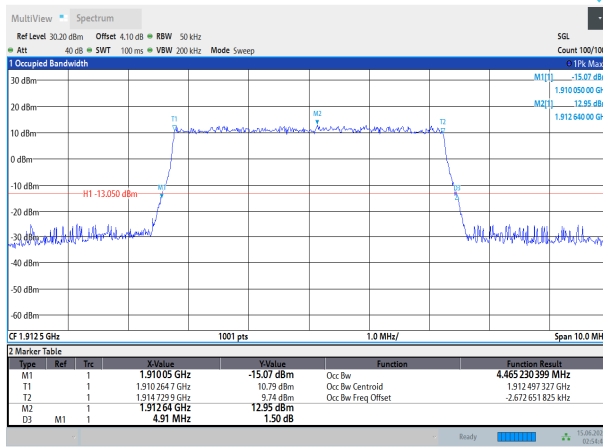


Band25-5MHz-16QAM-26365-25RB#0



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02:54:50 15.06.2022

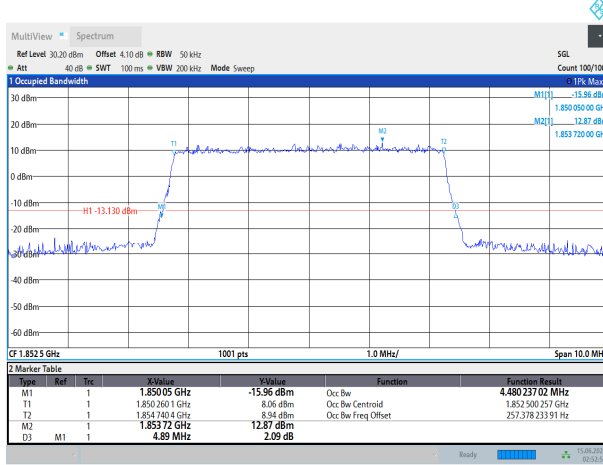


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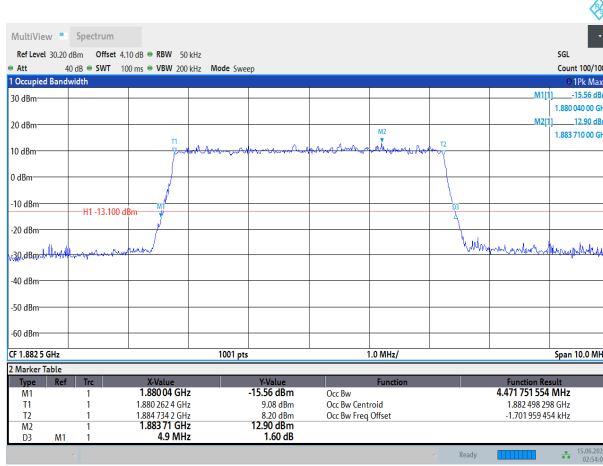
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Band25-5MHz-64QAM-26065-25RB#0



02:52:54 15.06.2022

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02:54:04 15.06.2022



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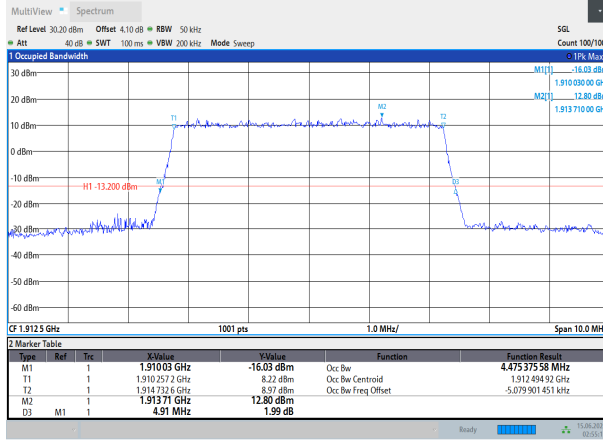
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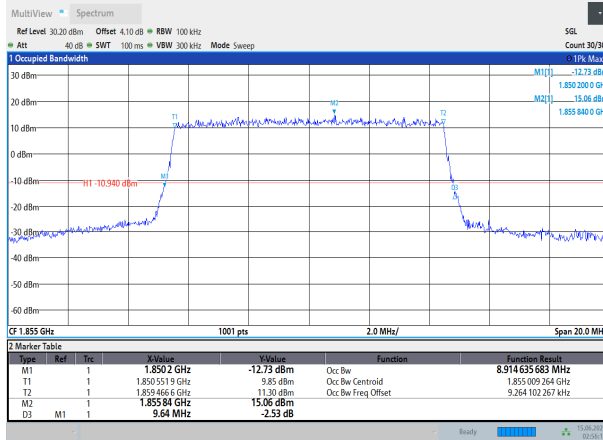


Band25-5MHz-64QAM-26665-25RB#0



02:55:13 15.06.2022

Band25-10MHz-QPSK-26090-50RB#0



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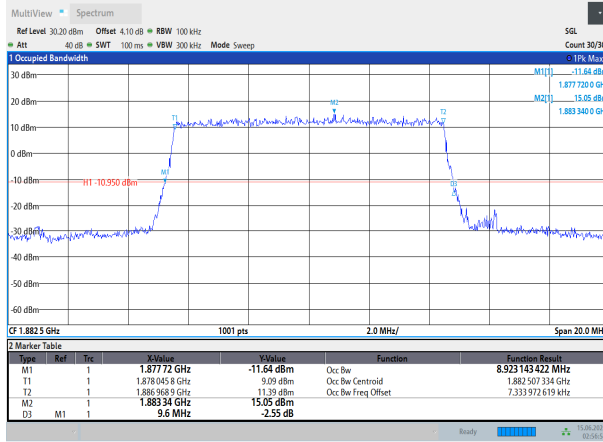
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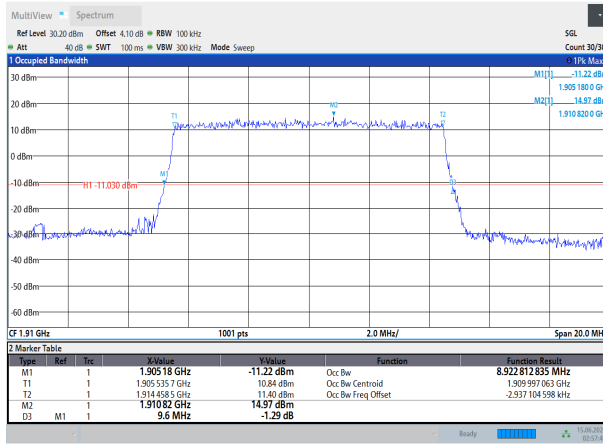
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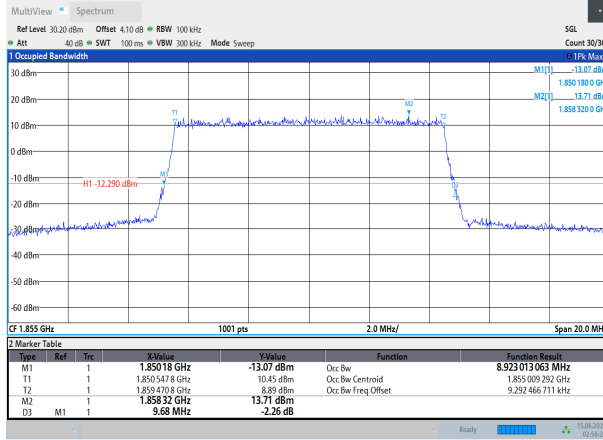
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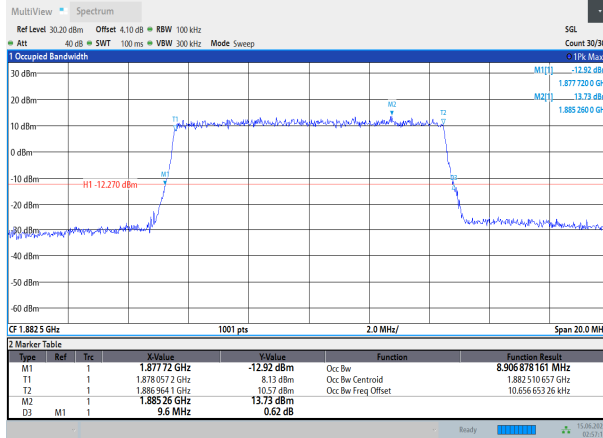
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Band25-10MHz-16QAM-26365-50RB#0



02:57:15 15.06.2022



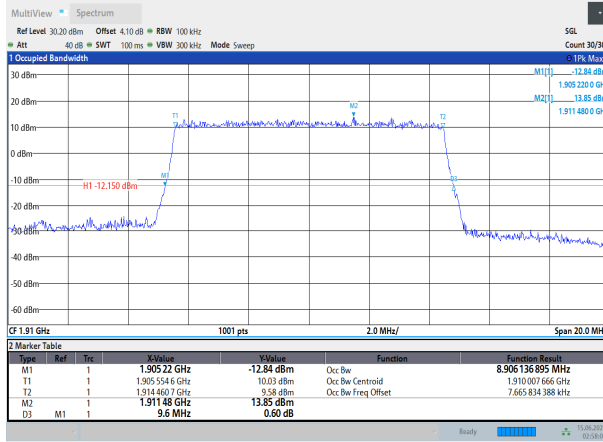
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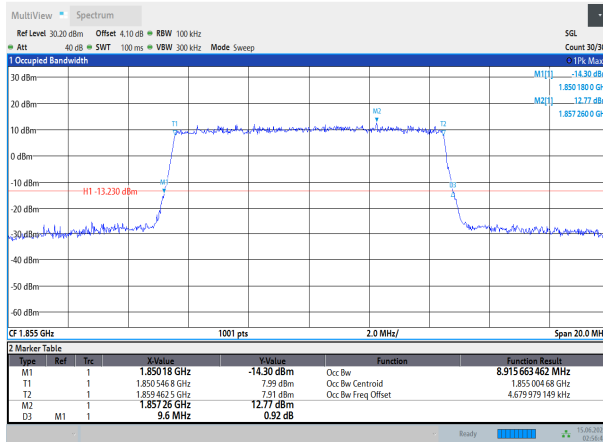


Band25-10MHz-16QAM-26640-50RB#0



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Band25-10MHz-64QAM-26090-50RB#0



02:56:43 15.06.2022

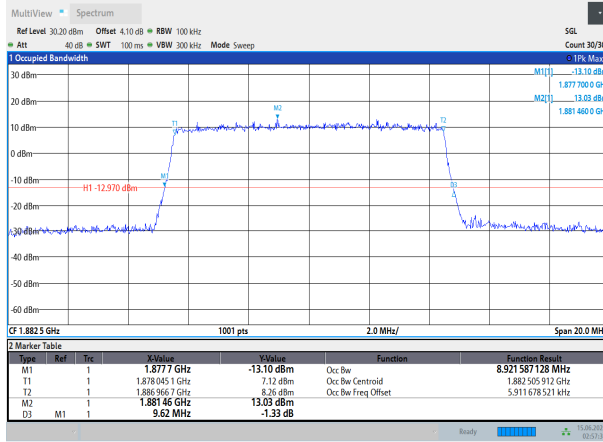


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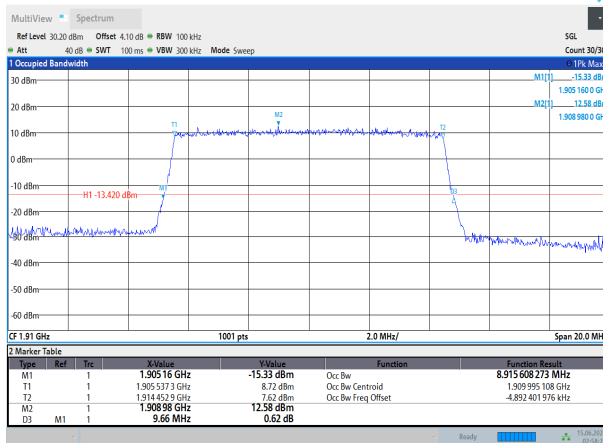
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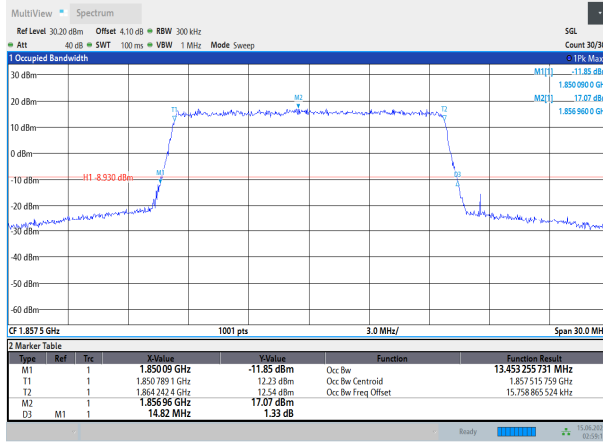
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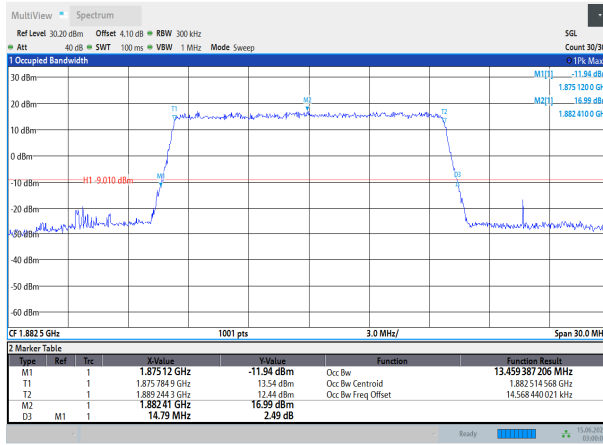
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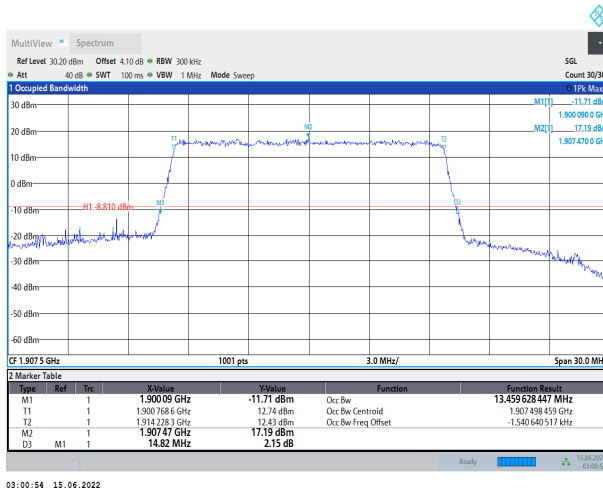
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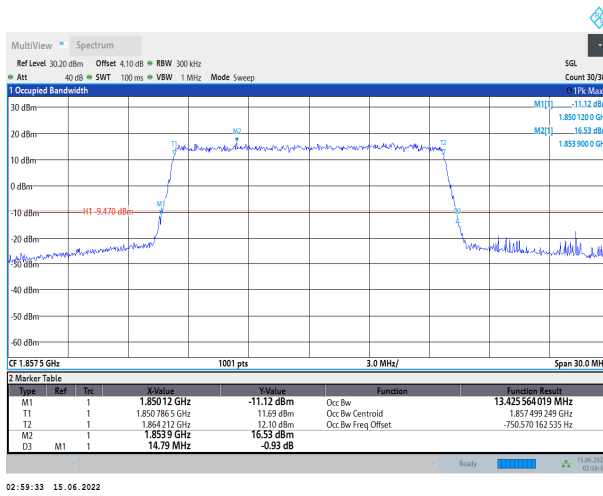
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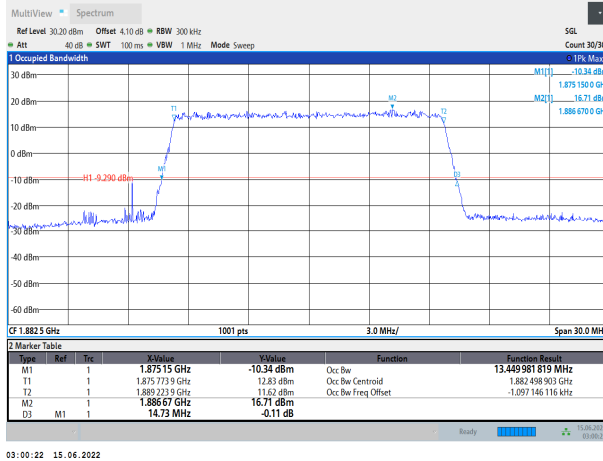


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Band25-15MHz-16QAM-26365-75RB#0



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Band25-15MHz-16QAM-26615-75RB#0



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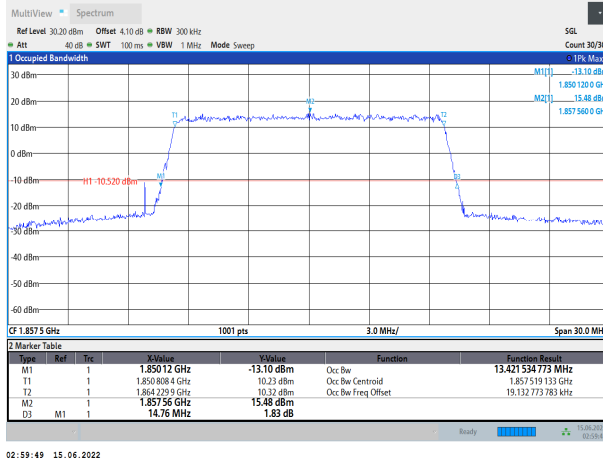
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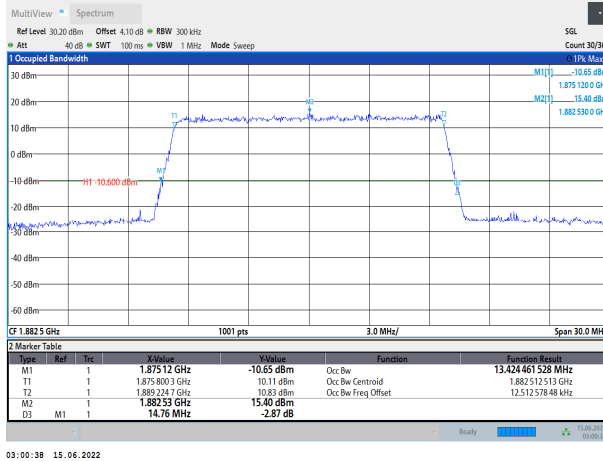
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Band25-15MHz-64QAM-26115-75RB#0



Band25-15MHz-64QAM-26365-75RB#0

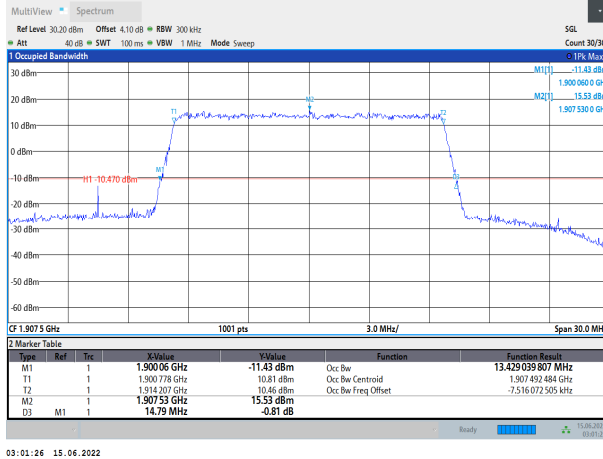


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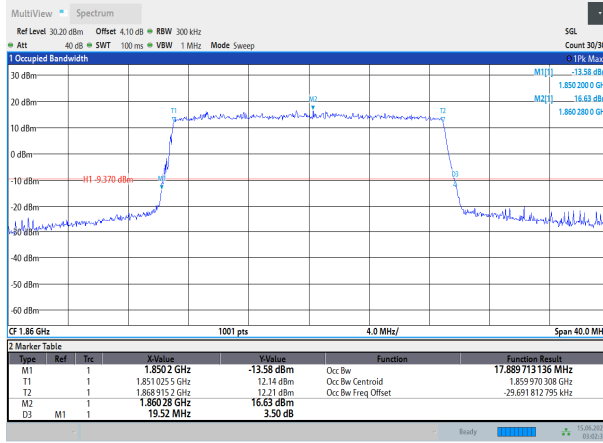


Band25-15MHz-64QAM-26615-75RB#0



03:01:26 15.06.2022

Band25-20MHz-QPSK-26140-100RB#0



03:02:36 15.06.2022

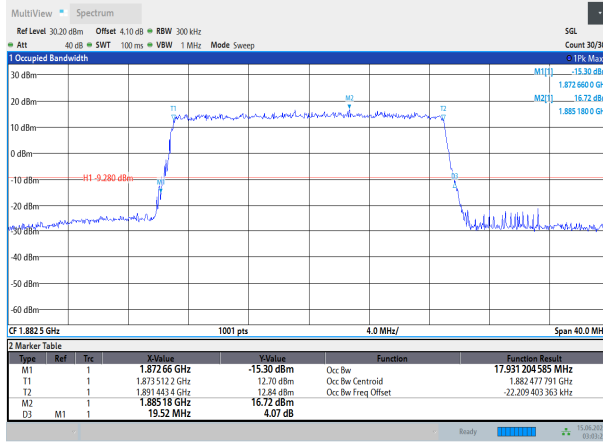


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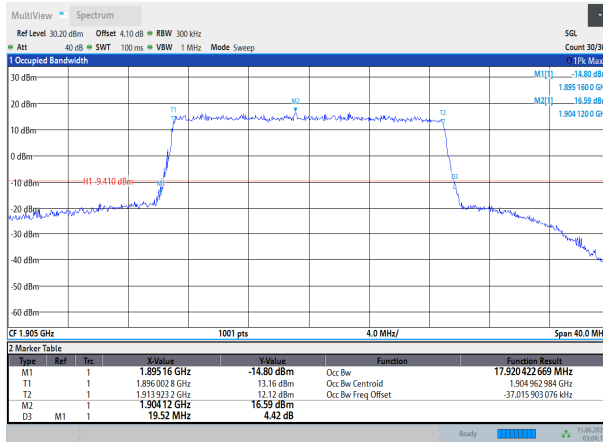
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Band25-20MHz-QPSK-26365-100RB#0



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Band25-20MHz-QPSK-26590-100RB#0



03:04:13 15.06.2022



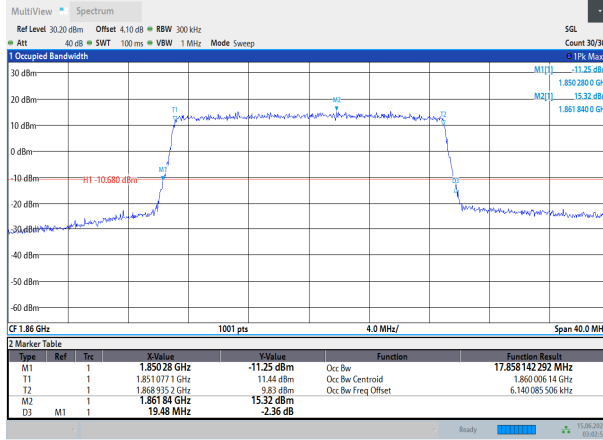
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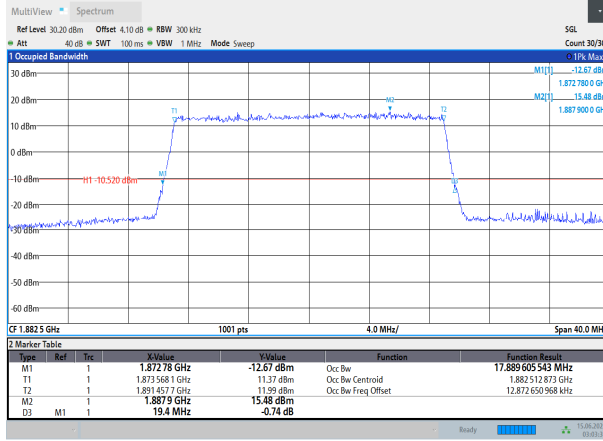


Band25-20MHz-16QAM-26140-100RB#0



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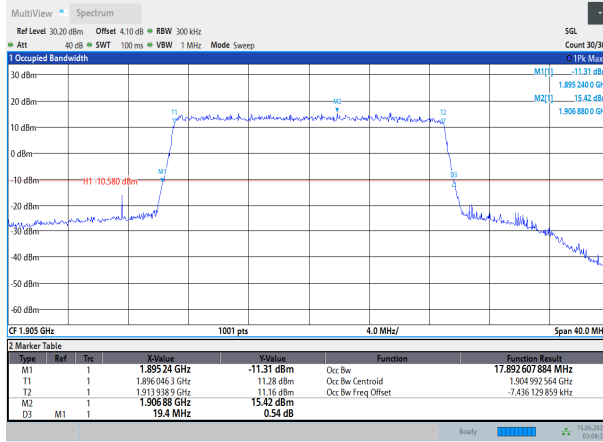
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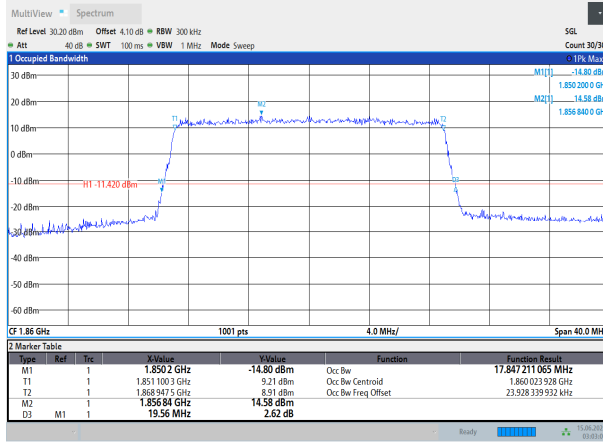


Band25-20MHz-16QAM-26590-100RB#0



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Band25-20MHz-64QAM-26140-100RB#0



03:03:08 15.06.2022

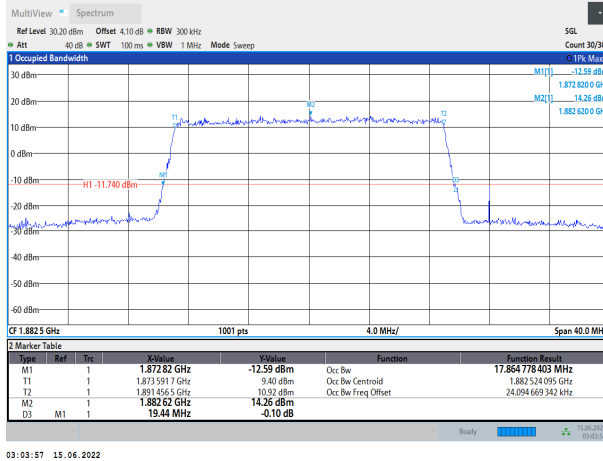


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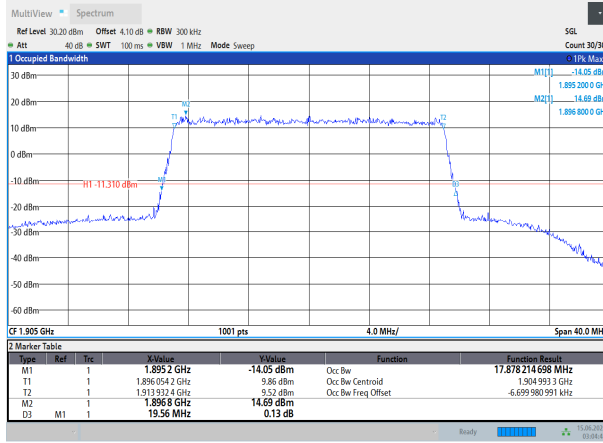
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Band25-20MHz-64QAM-26365-100RB#0



03:03:57 15.06.2022

Band25-20MHz-64QAM-26590-100RB#0



03:04:45 15.06.2022



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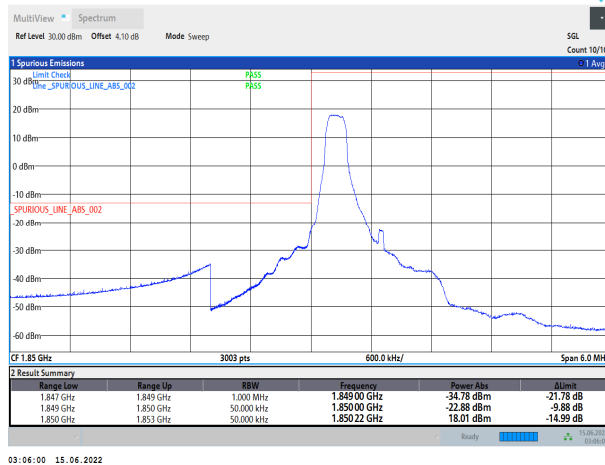
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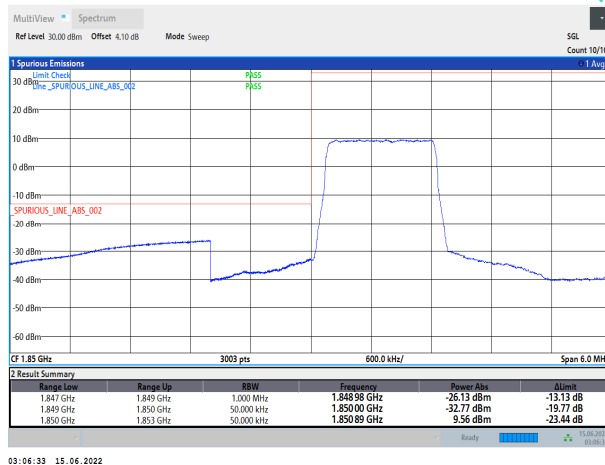
### Band Edge

### Test Graphs

Band25-1.4MHz-QPSK-26047-1RB#0



Band25-1.4MHz-QPSK-26047-6RB#0

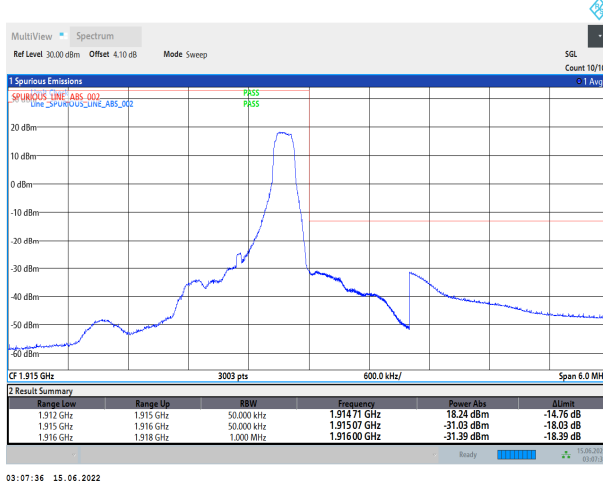


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Band25-1.4MHz-QPSK-26683-1RB#5



Band25-1.4MHz-QPSK-26683-6RB#0



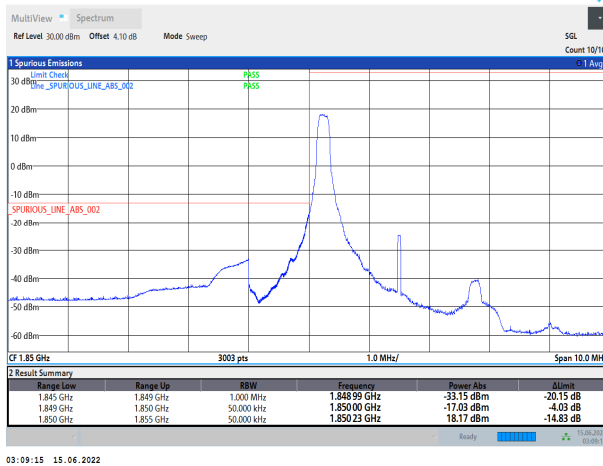
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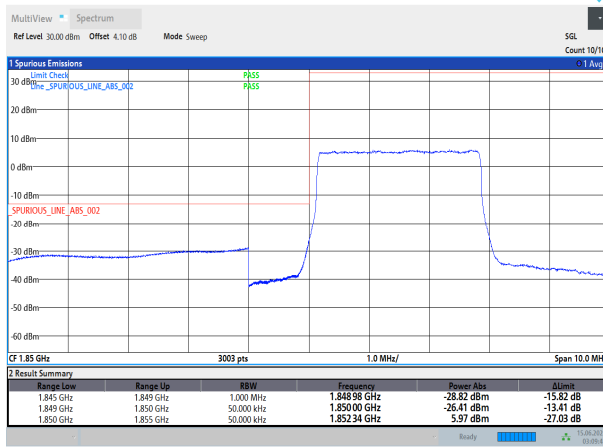


Band25-3MHz-QPSK-26055-1RB#0



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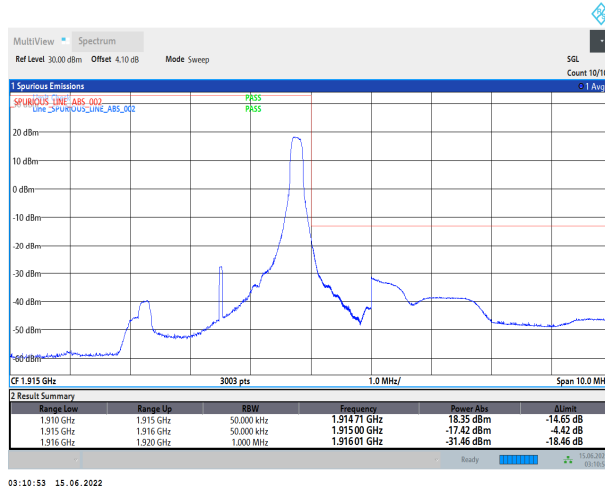
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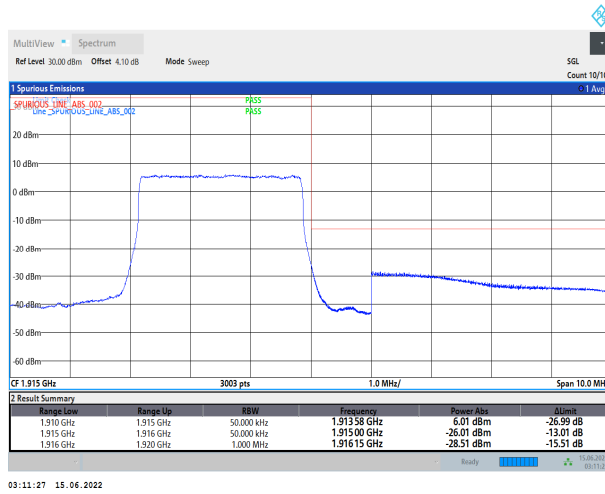
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Band25-3MHz-QPSK-26675-1RB#14



Band25-3MHz-QPSK-26675-15RB#0

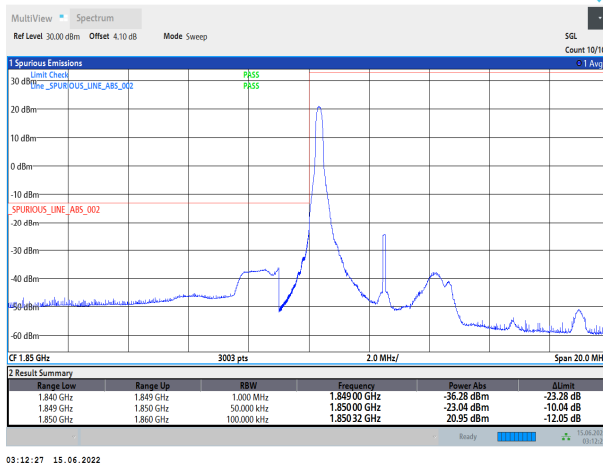


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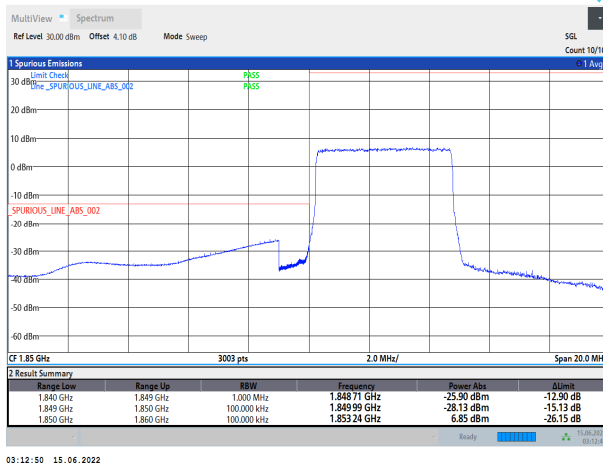
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Band25-5MHz-QPSK-26065-1RB#0



Band25-5MHz-QPSK-26065-25RB#0



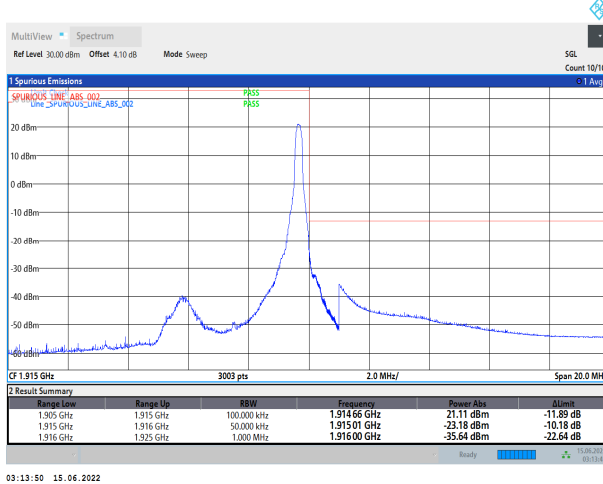
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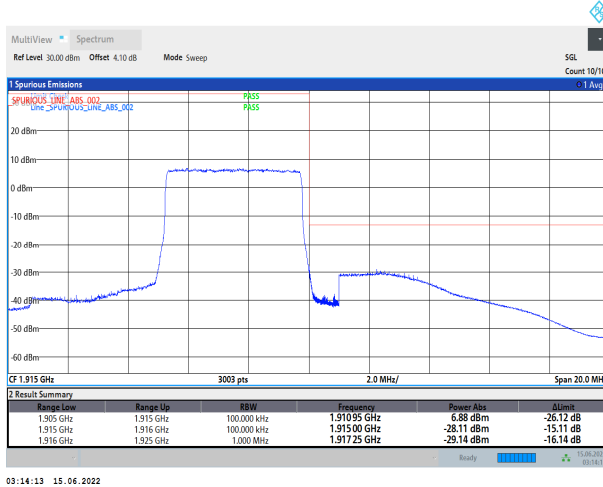
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Band25-5MHz-QPSK-26665-1RB#24



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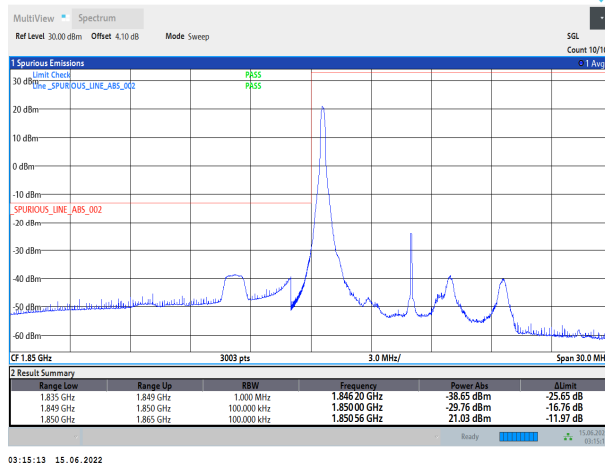


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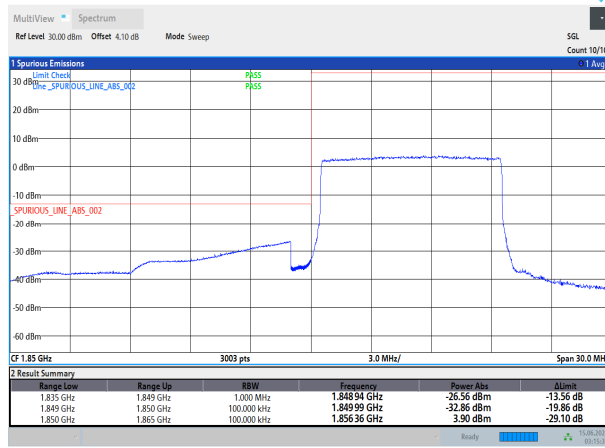
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03:15:13 15. 06. 2022

Band25-10MHz-QPSK-26090-50RB#0



03:15:36 15. 06. 2022

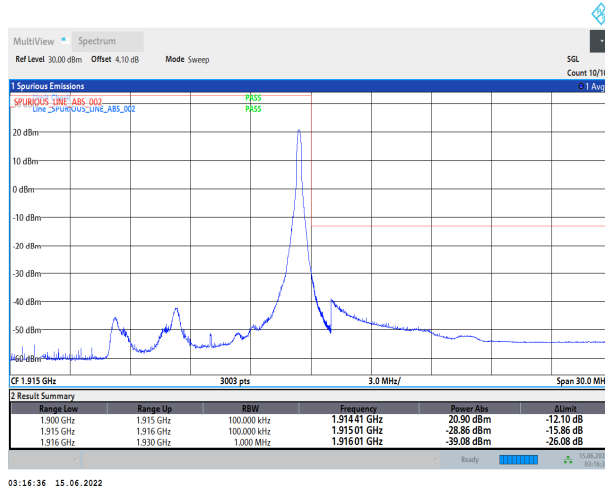


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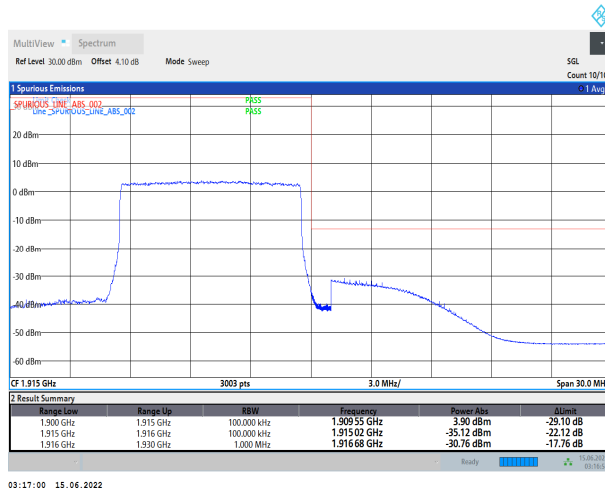
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Band25-10MHz-QPSK-26640-1RB#49



Band25-10MHz-QPSK-26640-50RB#0



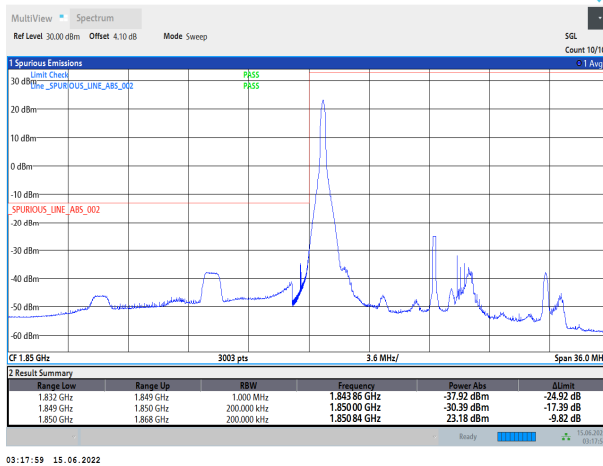
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Band25-15MHz-QPSK-26115-1RB#0



03:17:59 15. 06. 2022

Band25-15MHz-QPSK-26115-75RB#0



03:18:23 15. 06. 2022



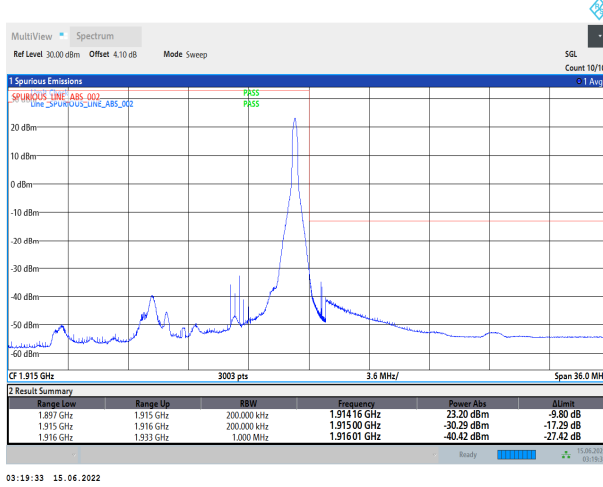
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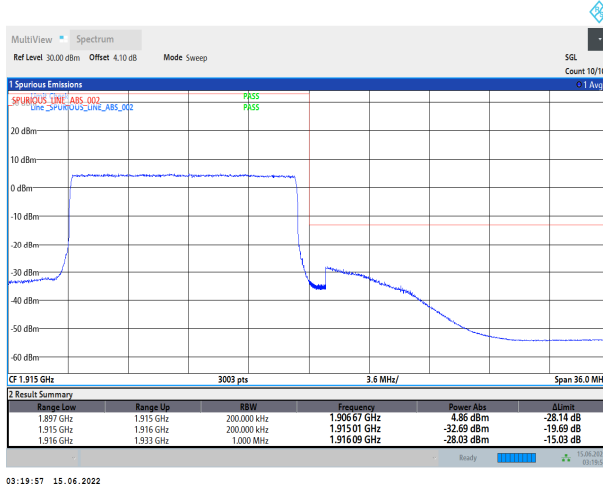
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Band25-15MHz-QPSK-26615-1RB#74



Band25-15MHz-QPSK-26615-75RB#0



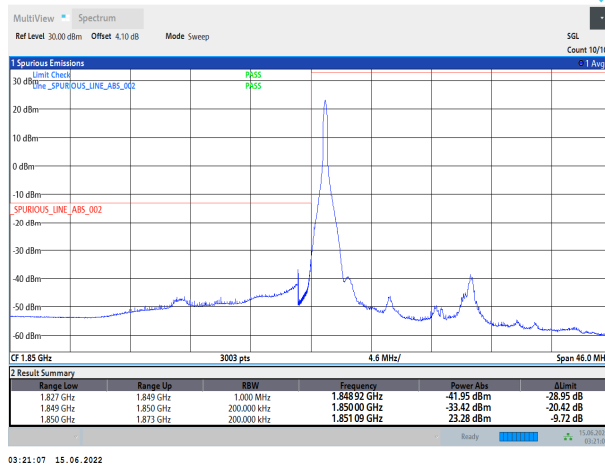
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Band25-20MHz-QPSK-26140-1RB#0



Band25-20MHz-QPSK-26140-100RB#0



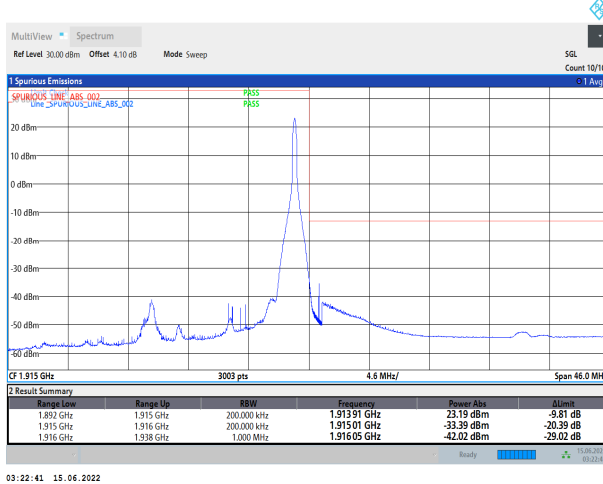
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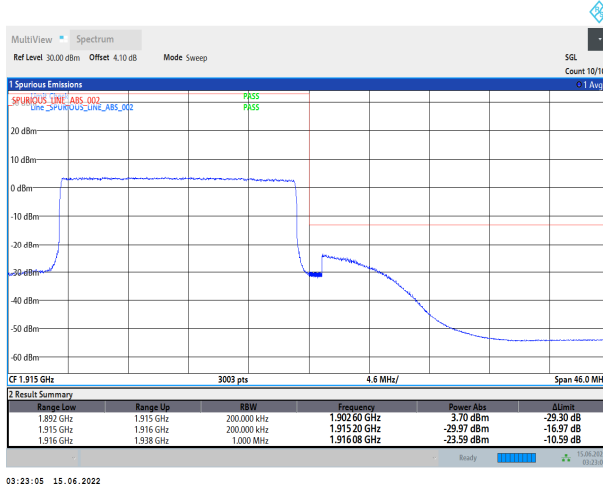
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Band25-20MHz-QPSK-26590-1RB#99



Band25-20MHz-QPSK-26590-100RB#0



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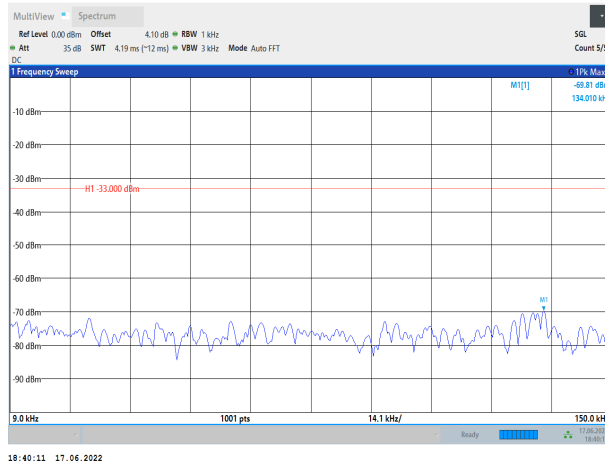
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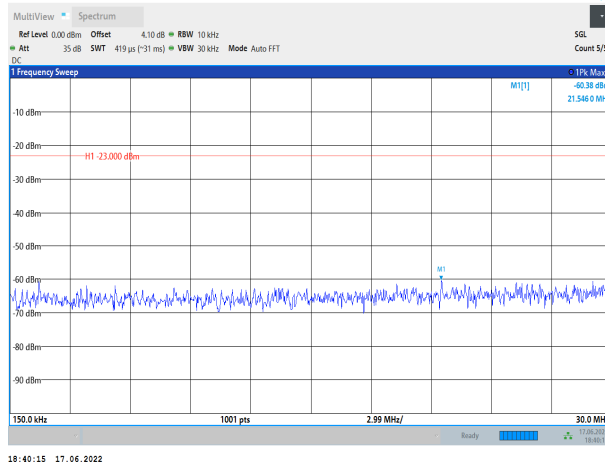
### Conducted Spurious Emission

#### Test Graphs

Band25-20MHz-QPSK-26140-1RB#0-Range1:0.009~0.15MHz



Band25-20MHz-QPSK-26140-1RB#0-Range2:0.15~30MHz



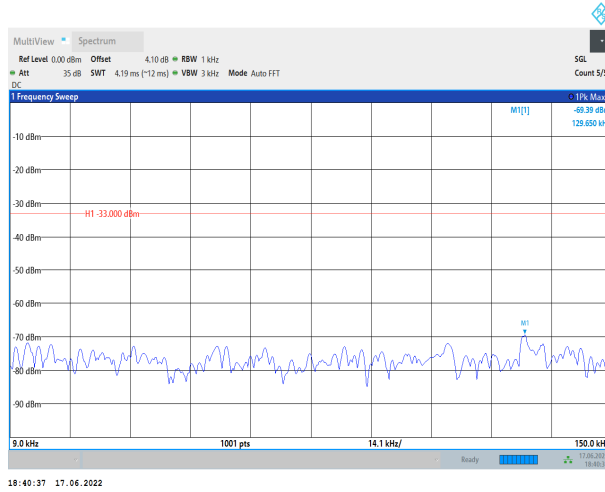
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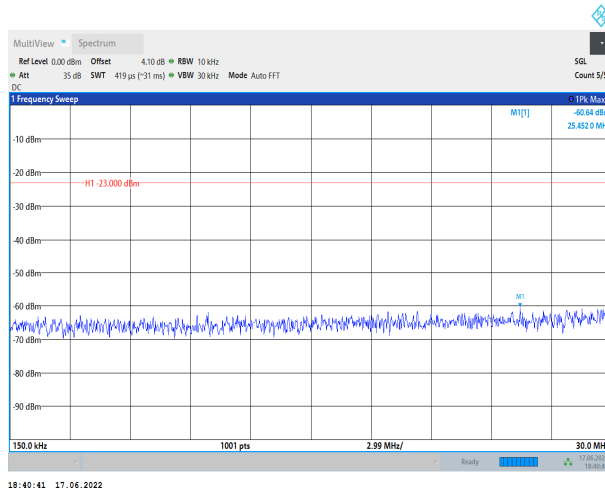




Band25-20MHz-QPSK-26365-1RB#0-Range1:0.009~0.15MHz



Band25-20MHz-QPSK-26365-1RB#0-Range2:0.15~30MHz



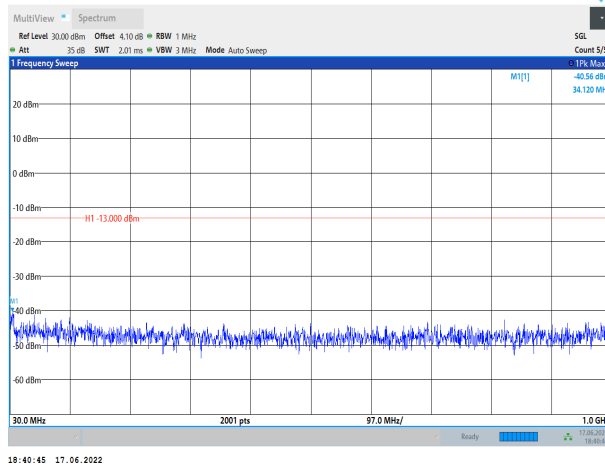
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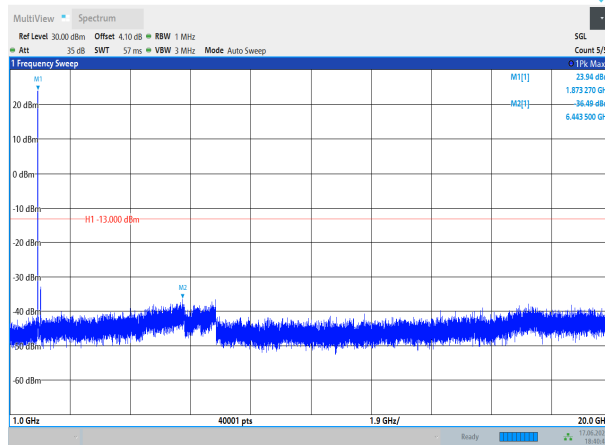


Band25-20MHz-QPSK-26365-1RB#0-Range3:30~1000MHz



18:40:45 17.06.2022

Band25-20MHz-QPSK-26365-1RB#0-Range4:1000~20000MHz



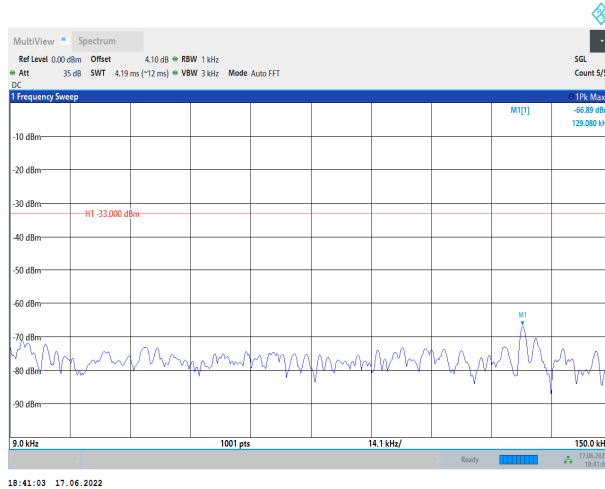
18:40:49 17.06.2022



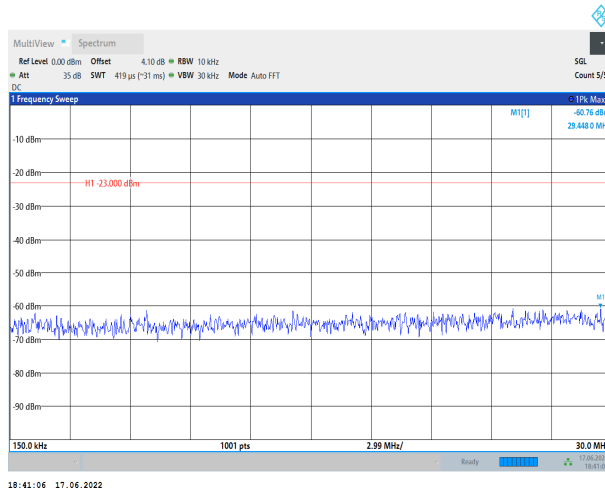
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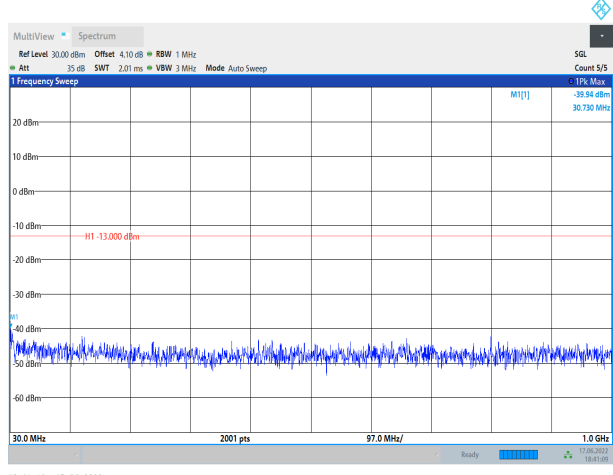


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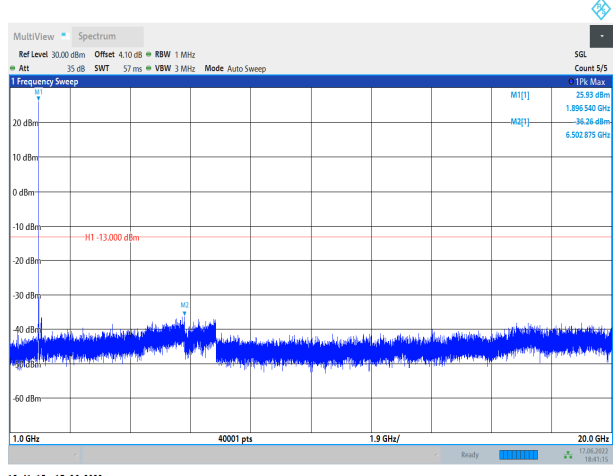
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Band25-20MHz-QPSK-26590-1RB#0-Range3:30~1000MHz



Band25-20MHz-QPSK-26590-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 25\_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	49.66	-110.79	-61.13	-13.00	48.13	134	300	Horizontal
2	5553.2700	47.82	-107.44	-59.62	-13.00	46.62	167	165	Horizontal
3	7404.3600	46.08	-102.17	-56.09	-13.00	43.09	182	242	Horizontal
4	9255.4500	39.70	-97.11	-57.41	-13.00	44.41	193	182	Horizontal
5	11106.5400	36.53	-94.10	-57.57	-13.00	44.57	234	74	Horizontal
6	12957.6300	33.29	-92.71	-59.42	-13.00	46.42	276	256	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702	52.53	-110.79	-58.26	-13.00	45.26	237	286	Vertical
2	5553.2700	48.72	-107.44	-58.72	-13.00	45.72	249	302	Vertical
3	7404.3600	48.33	-102.17	-53.84	-13.00	40.84	137	357	Vertical
4	9255.4500	42.33	-97.11	-54.78	-13.00	41.78	162	359	Vertical
5	11106	42.93	-94.10	-51.17	-13.00	38.17	175	88	Vertical
6	12957.6300	35.05	-92.71	-57.66	-13.00	44.66	173	166	Vertical



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Test Band = LTE Band 25\_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	50.94	-110.82	-59.88	-13.00	46.88	125	360	Horizontal
2	5613.2700	48.42	-107.23	-58.81	-13.00	45.81	164	352	Horizontal
3	7484.3600	47.19	-101.99	-54.80	-13.00	41.80	198	360	Horizontal
4	9355.4500	41.14	-96.81	-55.67	-13.00	42.67	175	300	Horizontal
5	11226.5400	39.47	-93.55	-54.08	-13.00	41.08	188	135	Horizontal
6	13097.6300	35.40	-92.39	-56.99	-13.00	43.99	230	352	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	49.82	-110.82	-61.00	-13.00	48.00	284	108	Vertical
2	5613.2700	48.33	-107.23	-58.90	-13.00	45.90	195	360	Vertical
3	7484.3600	45.86	-101.99	-56.13	-13.00	43.13	177	138	Vertical
4	9355.4500	43.03	-96.81	-53.78	-13.00	40.78	266	360	Vertical
5	11226.5400	45.21	-93.55	-48.34	-13.00	35.34	142	76	Vertical
6	13097.6300	33.26	-92.39	-59.13	-13.00	46.13	102	274	Vertical



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**Test Band = LTE Band 25\_ TM1**  
**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792.1800	49.88	-110.85	-60.97	-13.00	47.97	288	210	Horizontal
2	5688.2700	48.34	-106.79	-58.45	-13.00	45.45	274	44	Horizontal
3	7584.3600	47.29	-101.82	-54.53	-13.00	41.53	271	14	Horizontal
4	9480.4500	42.70	-96.94	-54.24	-13.00	41.24	177	287	Horizontal
5	11376.5400	38.62	-93.53	-54.91	-13.00	41.91	165	256	Horizontal
6	13272.6300	33.56	-92.22	-58.66	-13.00	45.66	174	14	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792.1800	51.46	-110.85	-59.39	-13.00	46.39	284	87	Vertical
2	5688.2700	48.15	-106.79	-58.64	-13.00	45.64	254	13	Vertical
3	7584.3600	47.25	-101.82	-54.57	-13.00	41.57	147	73	Vertical
4	9480.4500	42.74	-96.94	-54.20	-13.00	41.20	245	135	Vertical
5	11376.5400	42.89	-93.53	-50.64	-13.00	37.64	107	87	Vertical
6	13272.6300	34.14	-92.22	-58.08	-13.00	45.08	180	150	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	6.00	0.003187	PASS
Band25	20MHz	QPSK	26365	100RB#0	VN	NT	-9.80	-0.005206	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	3.60	0.001912	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	NV	-30	4.40	0.002337	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	0.50	0.000266	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	-0.60	-0.000319	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	-11.00	-0.005843	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	-5.30	-0.002815	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	5.40	0.002869	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	-3.40	-0.001806	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	-3.70	-0.001965	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	-8.10	-0.004303	PASS

The End



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