



Appendix B

E-UTRA Band 25



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1 Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	22.24	22.54	33.00	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	22.49	22.79	33.00	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	22.34	22.64	33.00	PASS
Band25	1.4MHz	QPSK	26047	3RB#0	22.41	22.71	33.00	PASS
Band25	1.4MHz	QPSK	26047	3RB#1	22.56	22.86	33.00	PASS
Band25	1.4MHz	QPSK	26047	3RB#3	22.56	22.86	33.00	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	21.40	21.70	33.00	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	22.20	22.50	33.00	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	22.45	22.75	33.00	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	22.26	22.56	33.00	PASS
Band25	1.4MHz	QPSK	26365	3RB#0	22.74	23.04	33.00	PASS
Band25	1.4MHz	QPSK	26365	3RB#1	22.74	23.04	33.00	PASS
Band25	1.4MHz	QPSK	26365	3RB#3	22.69	22.99	33.00	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	21.53	21.83	33.00	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	22.39	22.69	33.00	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	22.47	22.77	33.00	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	22.28	22.58	33.00	PASS
Band25	1.4MHz	QPSK	26683	3RB#0	22.55	22.85	33.00	PASS
Band25	1.4MHz	QPSK	26683	3RB#1	22.76	23.06	33.00	PASS
Band25	1.4MHz	QPSK	26683	3RB#3	22.64	22.94	33.00	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	21.54	21.84	33.00	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	21.65	21.95	33.00	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	21.81	22.11	33.00	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	21.77	22.07	33.00	PASS
Band25	1.4MHz	16QAM	26047	3RB#0	21.57	21.87	33.00	PASS
Band25	1.4MHz	16QAM	26047	3RB#1	21.29	21.59	33.00	PASS
Band25	1.4MHz	16QAM	26047	3RB#3	21.30	21.60	33.00	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	20.34	20.64	33.00	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	21.71	22.01	33.00	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	21.33	21.63	33.00	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	21.79	22.09	33.00	PASS
Band25	1.4MHz	16QAM	26365	3RB#0	21.19	21.49	33.00	PASS

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Band25	1.4MHz	16QAM	26365	3RB#1	21.37	21.67	33.00	PASS
Band25	1.4MHz	16QAM	26365	3RB#3	21.31	21.61	33.00	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	20.37	20.67	33.00	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	21.41	21.71	33.00	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	21.02	21.32	33.00	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	21.21	21.51	33.00	PASS
Band25	1.4MHz	16QAM	26683	3RB#0	21.36	21.66	33.00	PASS
Band25	1.4MHz	16QAM	26683	3RB#1	21.25	21.55	33.00	PASS
Band25	1.4MHz	16QAM	26683	3RB#3	21.47	21.77	33.00	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	20.39	20.69	33.00	PASS
Band25	3MHz	QPSK	26055	1RB#0	22.39	22.69	33.00	PASS
Band25	3MHz	QPSK	26055	1RB#8	22.46	22.76	33.00	PASS
Band25	3MHz	QPSK	26055	1RB#14	22.03	22.33	33.00	PASS
Band25	3MHz	QPSK	26055	8RB#0	21.44	21.74	33.00	PASS
Band25	3MHz	QPSK	26055	8RB#4	21.44	21.74	33.00	PASS
Band25	3MHz	QPSK	26055	8RB#7	21.59	21.89	33.00	PASS
Band25	3MHz	QPSK	26055	15RB#0	21.56	21.86	33.00	PASS
Band25	3MHz	QPSK	26365	1RB#0	22.17	22.47	33.00	PASS
Band25	3MHz	QPSK	26365	1RB#8	22.64	22.94	33.00	PASS
Band25	3MHz	QPSK	26365	1RB#14	22.49	22.79	33.00	PASS
Band25	3MHz	QPSK	26365	8RB#0	21.46	21.76	33.00	PASS
Band25	3MHz	QPSK	26365	8RB#4	21.48	21.78	33.00	PASS
Band25	3MHz	QPSK	26365	8RB#7	21.43	21.73	33.00	PASS
Band25	3MHz	QPSK	26365	15RB#0	21.53	21.83	33.00	PASS
Band25	3MHz	QPSK	26675	1RB#0	22.09	22.39	33.00	PASS
Band25	3MHz	QPSK	26675	1RB#8	22.16	22.46	33.00	PASS
Band25	3MHz	QPSK	26675	1RB#14	22.37	22.67	33.00	PASS
Band25	3MHz	QPSK	26675	8RB#0	21.50	21.80	33.00	PASS
Band25	3MHz	QPSK	26675	8RB#4	21.57	21.87	33.00	PASS
Band25	3MHz	QPSK	26675	8RB#7	21.54	21.84	33.00	PASS
Band25	3MHz	QPSK	26675	15RB#0	21.66	21.96	33.00	PASS
Band25	3MHz	16QAM	26055	1RB#0	21.79	22.09	33.00	PASS
Band25	3MHz	16QAM	26055	1RB#8	21.39	21.69	33.00	PASS
Band25	3MHz	16QAM	26055	1RB#14	21.69	21.99	33.00	PASS
Band25	3MHz	16QAM	26055	8RB#0	20.23	20.53	33.00	PASS
Band25	3MHz	16QAM	26055	8RB#4	20.50	20.80	33.00	PASS

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Band25	3MHz	16QAM	26055	8RB#7	20.53	20.83	33.00	PASS
Band25	3MHz	16QAM	26055	15RB#0	20.23	20.53	33.00	PASS
Band25	3MHz	16QAM	26365	1RB#0	21.25	21.55	33.00	PASS
Band25	3MHz	16QAM	26365	1RB#8	21.37	21.67	33.00	PASS
Band25	3MHz	16QAM	26365	1RB#14	21.66	21.96	33.00	PASS
Band25	3MHz	16QAM	26365	8RB#0	20.40	20.70	33.00	PASS
Band25	3MHz	16QAM	26365	8RB#4	20.55	20.85	33.00	PASS
Band25	3MHz	16QAM	26365	8RB#7	20.45	20.75	33.00	PASS
Band25	3MHz	16QAM	26365	15RB#0	20.59	20.89	33.00	PASS
Band25	3MHz	16QAM	26675	1RB#0	21.33	21.63	33.00	PASS
Band25	3MHz	16QAM	26675	1RB#8	21.15	21.45	33.00	PASS
Band25	3MHz	16QAM	26675	1RB#14	21.94	22.24	33.00	PASS
Band25	3MHz	16QAM	26675	8RB#0	20.32	20.62	33.00	PASS
Band25	3MHz	16QAM	26675	8RB#4	20.46	20.76	33.00	PASS
Band25	3MHz	16QAM	26675	8RB#7	20.52	20.82	33.00	PASS
Band25	3MHz	16QAM	26675	15RB#0	20.65	20.95	33.00	PASS
Band25	5MHz	QPSK	26065	1RB#0	22.29	22.59	33.00	PASS
Band25	5MHz	QPSK	26065	1RB#12	22.16	22.46	33.00	PASS
Band25	5MHz	QPSK	26065	1RB#24	22.07	22.37	33.00	PASS
Band25	5MHz	QPSK	26065	12RB#0	21.46	21.76	33.00	PASS
Band25	5MHz	QPSK	26065	12RB#13	21.46	21.76	33.00	PASS
Band25	5MHz	QPSK	26065	12RB#6	21.48	21.78	33.00	PASS
Band25	5MHz	QPSK	26065	25RB#0	21.47	21.77	33.00	PASS
Band25	5MHz	QPSK	26365	1RB#0	22.28	22.58	33.00	PASS
Band25	5MHz	QPSK	26365	1RB#12	22.33	22.63	33.00	PASS
Band25	5MHz	QPSK	26365	1RB#24	22.44	22.74	33.00	PASS
Band25	5MHz	QPSK	26365	12RB#0	21.53	21.83	33.00	PASS
Band25	5MHz	QPSK	26365	12RB#13	21.56	21.86	33.00	PASS
Band25	5MHz	QPSK	26365	12RB#6	21.48	21.78	33.00	PASS
Band25	5MHz	QPSK	26365	25RB#0	21.48	21.78	33.00	PASS
Band25	5MHz	QPSK	26665	1RB#0	22.28	22.58	33.00	PASS
Band25	5MHz	QPSK	26665	1RB#12	22.32	22.62	33.00	PASS
Band25	5MHz	QPSK	26665	1RB#24	22.24	22.54	33.00	PASS
Band25	5MHz	QPSK	26665	12RB#0	21.57	21.87	33.00	PASS
Band25	5MHz	QPSK	26665	12RB#13	21.53	21.83	33.00	PASS
Band25	5MHz	QPSK	26665	12RB#6	21.51	21.81	33.00	PASS

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Band25	5MHz	QPSK	26665	25RB#0	21.52	21.82	33.00	PASS
Band25	5MHz	16QAM	26065	1RB#0	21.07	21.37	33.00	PASS
Band25	5MHz	16QAM	26065	1RB#12	21.02	21.32	33.00	PASS
Band25	5MHz	16QAM	26065	1RB#24	21.84	22.14	33.00	PASS
Band25	5MHz	16QAM	26065	12RB#0	20.30	20.60	33.00	PASS
Band25	5MHz	16QAM	26065	12RB#13	20.47	20.77	33.00	PASS
Band25	5MHz	16QAM	26065	12RB#6	20.57	20.87	33.00	PASS
Band25	5MHz	16QAM	26065	25RB#0	20.47	20.77	33.00	PASS
Band25	5MHz	16QAM	26365	1RB#0	21.67	21.97	33.00	PASS
Band25	5MHz	16QAM	26365	1RB#12	21.75	22.05	33.00	PASS
Band25	5MHz	16QAM	26365	1RB#24	21.42	21.72	33.00	PASS
Band25	5MHz	16QAM	26365	12RB#0	20.60	20.90	33.00	PASS
Band25	5MHz	16QAM	26365	12RB#13	20.57	20.87	33.00	PASS
Band25	5MHz	16QAM	26365	12RB#6	20.66	20.96	33.00	PASS
Band25	5MHz	16QAM	26365	25RB#0	20.45	20.75	33.00	PASS
Band25	5MHz	16QAM	26665	1RB#0	21.75	22.05	33.00	PASS
Band25	5MHz	16QAM	26665	1RB#12	21.89	22.19	33.00	PASS
Band25	5MHz	16QAM	26665	1RB#24	21.44	21.74	33.00	PASS
Band25	5MHz	16QAM	26665	12RB#0	20.42	20.72	33.00	PASS
Band25	5MHz	16QAM	26665	12RB#13	20.32	20.62	33.00	PASS
Band25	5MHz	16QAM	26665	12RB#6	20.21	20.51	33.00	PASS
Band25	5MHz	16QAM	26665	25RB#0	20.43	20.73	33.00	PASS
Band25	10MHz	QPSK	26090	1RB#0	22.35	22.65	33.00	PASS
Band25	10MHz	QPSK	26090	1RB#24	22.34	22.64	33.00	PASS
Band25	10MHz	QPSK	26090	1RB#49	22.30	22.60	33.00	PASS
Band25	10MHz	QPSK	26090	25RB#0	21.44	21.74	33.00	PASS
Band25	10MHz	QPSK	26090	25RB#12	21.49	21.79	33.00	PASS
Band25	10MHz	QPSK	26090	25RB#25	21.45	21.75	33.00	PASS
Band25	10MHz	QPSK	26090	50RB#0	21.52	21.82	33.00	PASS
Band25	10MHz	QPSK	26365	1RB#0	22.29	22.59	33.00	PASS
Band25	10MHz	QPSK	26365	1RB#24	22.70	23.00	33.00	PASS
Band25	10MHz	QPSK	26365	1RB#49	22.33	22.63	33.00	PASS
Band25	10MHz	QPSK	26365	25RB#0	21.56	21.86	33.00	PASS
Band25	10MHz	QPSK	26365	25RB#12	21.56	21.86	33.00	PASS
Band25	10MHz	QPSK	26365	25RB#25	21.44	21.74	33.00	PASS
Band25	10MHz	QPSK	26365	50RB#0	21.59	21.89	33.00	PASS

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Band25	10MHz	QPSK	26640	1RB#0	22.16	22.46	33.00	PASS
Band25	10MHz	QPSK	26640	1RB#24	22.78	23.08	33.00	PASS
Band25	10MHz	QPSK	26640	1RB#49	22.41	22.71	33.00	PASS
Band25	10MHz	QPSK	26640	25RB#0	21.56	21.86	33.00	PASS
Band25	10MHz	QPSK	26640	25RB#12	21.43	21.73	33.00	PASS
Band25	10MHz	QPSK	26640	25RB#25	21.50	21.80	33.00	PASS
Band25	10MHz	QPSK	26640	50RB#0	21.45	21.75	33.00	PASS
Band25	10MHz	16QAM	26090	1RB#0	21.32	21.62	33.00	PASS
Band25	10MHz	16QAM	26090	1RB#24	21.57	21.87	33.00	PASS
Band25	10MHz	16QAM	26090	1RB#49	21.84	22.14	33.00	PASS
Band25	10MHz	16QAM	26090	25RB#0	20.48	20.78	33.00	PASS
Band25	10MHz	16QAM	26090	25RB#12	20.59	20.89	33.00	PASS
Band25	10MHz	16QAM	26090	25RB#25	20.54	20.84	33.00	PASS
Band25	10MHz	16QAM	26090	50RB#0	20.63	20.93	33.00	PASS
Band25	10MHz	16QAM	26365	1RB#0	21.08	21.38	33.00	PASS
Band25	10MHz	16QAM	26365	1RB#24	21.93	22.23	33.00	PASS
Band25	10MHz	16QAM	26365	1RB#49	21.91	22.21	33.00	PASS
Band25	10MHz	16QAM	26365	25RB#0	20.41	20.71	33.00	PASS
Band25	10MHz	16QAM	26365	25RB#12	20.52	20.82	33.00	PASS
Band25	10MHz	16QAM	26365	25RB#25	20.55	20.85	33.00	PASS
Band25	10MHz	16QAM	26365	50RB#0	20.69	20.99	33.00	PASS
Band25	10MHz	16QAM	26640	1RB#0	21.84	22.14	33.00	PASS
Band25	10MHz	16QAM	26640	1RB#24	21.88	22.18	33.00	PASS
Band25	10MHz	16QAM	26640	1RB#49	21.92	22.22	33.00	PASS
Band25	10MHz	16QAM	26640	25RB#0	20.72	21.02	33.00	PASS
Band25	10MHz	16QAM	26640	25RB#12	20.43	20.73	33.00	PASS
Band25	10MHz	16QAM	26640	25RB#25	20.38	20.68	33.00	PASS
Band25	10MHz	16QAM	26640	50RB#0	20.51	20.81	33.00	PASS
Band25	15MHz	QPSK	26115	1RB#0	22.57	22.87	33.00	PASS
Band25	15MHz	QPSK	26115	1RB#38	22.33	22.63	33.00	PASS
Band25	15MHz	QPSK	26115	1RB#74	22.57	22.87	33.00	PASS
Band25	15MHz	QPSK	26115	36RB#0	21.49	21.79	33.00	PASS
Band25	15MHz	QPSK	26115	36RB#18	21.51	21.81	33.00	PASS
Band25	15MHz	QPSK	26115	36RB#39	21.52	21.82	33.00	PASS
Band25	15MHz	QPSK	26115	75RB#0	21.51	21.81	33.00	PASS
Band25	15MHz	QPSK	26365	1RB#0	22.30	22.60	33.00	PASS

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Band25	15MHz	QPSK	26365	1RB#38	22.47	22.77	33.00	PASS
Band25	15MHz	QPSK	26365	1RB#74	22.17	22.47	33.00	PASS
Band25	15MHz	QPSK	26365	36RB#0	21.55	21.85	33.00	PASS
Band25	15MHz	QPSK	26365	36RB#18	21.53	21.83	33.00	PASS
Band25	15MHz	QPSK	26365	36RB#39	21.48	21.78	33.00	PASS
Band25	15MHz	QPSK	26365	75RB#0	21.56	21.86	33.00	PASS
Band25	15MHz	QPSK	26615	1RB#0	22.48	22.78	33.00	PASS
Band25	15MHz	QPSK	26615	1RB#38	22.43	22.73	33.00	PASS
Band25	15MHz	QPSK	26615	1RB#74	22.60	22.90	33.00	PASS
Band25	15MHz	QPSK	26615	36RB#0	21.52	21.82	33.00	PASS
Band25	15MHz	QPSK	26615	36RB#18	21.50	21.80	33.00	PASS
Band25	15MHz	QPSK	26615	36RB#39	21.49	21.79	33.00	PASS
Band25	15MHz	QPSK	26615	75RB#0	21.54	21.84	33.00	PASS
Band25	15MHz	16QAM	26115	1RB#0	21.26	21.56	33.00	PASS
Band25	15MHz	16QAM	26115	1RB#38	21.44	21.74	33.00	PASS
Band25	15MHz	16QAM	26115	1RB#74	21.41	21.71	33.00	PASS
Band25	15MHz	16QAM	26115	36RB#0	20.51	20.81	33.00	PASS
Band25	15MHz	16QAM	26115	36RB#18	20.61	20.91	33.00	PASS
Band25	15MHz	16QAM	26115	36RB#39	20.58	20.88	33.00	PASS
Band25	15MHz	16QAM	26115	75RB#0	20.60	20.90	33.00	PASS
Band25	15MHz	16QAM	26365	1RB#0	21.71	22.01	33.00	PASS
Band25	15MHz	16QAM	26365	1RB#38	21.53	21.83	33.00	PASS
Band25	15MHz	16QAM	26365	1RB#74	21.48	21.78	33.00	PASS
Band25	15MHz	16QAM	26365	36RB#0	21.52	21.82	33.00	PASS
Band25	15MHz	16QAM	26365	36RB#18	20.53	20.83	33.00	PASS
Band25	15MHz	16QAM	26365	36RB#39	20.38	20.68	33.00	PASS
Band25	15MHz	16QAM	26365	75RB#0	20.59	20.89	33.00	PASS
Band25	15MHz	16QAM	26615	1RB#0	21.49	21.79	33.00	PASS
Band25	15MHz	16QAM	26615	1RB#38	21.28	21.58	33.00	PASS
Band25	15MHz	16QAM	26615	1RB#74	21.69	21.99	33.00	PASS
Band25	15MHz	16QAM	26615	36RB#0	20.76	21.06	33.00	PASS
Band25	15MHz	16QAM	26615	36RB#18	20.64	20.94	33.00	PASS
Band25	15MHz	16QAM	26615	36RB#39	20.49	20.79	33.00	PASS
Band25	15MHz	16QAM	26615	75RB#0	20.53	20.83	33.00	PASS
Band25	20MHz	QPSK	26140	1RB#0	22.34	22.64	33.00	PASS
Band25	20MHz	QPSK	26140	1RB#49	22.67	22.97	33.00	PASS

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Band25	20MHz	QPSK	26140	1RB#99	22.43	22.73	33.00	PASS
Band25	20MHz	QPSK	26140	50RB#0	21.62	21.92	33.00	PASS
Band25	20MHz	QPSK	26140	50RB#25	21.62	21.92	33.00	PASS
Band25	20MHz	QPSK	26140	50RB#50	21.62	21.92	33.00	PASS
Band25	20MHz	QPSK	26140	100RB#0	21.56	21.86	33.00	PASS
Band25	20MHz	QPSK	26365	1RB#0	22.28	22.58	33.00	PASS
Band25	20MHz	QPSK	26365	1RB#49	22.71	23.01	33.00	PASS
Band25	20MHz	QPSK	26365	1RB#99	22.32	22.62	33.00	PASS
Band25	20MHz	QPSK	26365	50RB#0	21.59	21.89	33.00	PASS
Band25	20MHz	QPSK	26365	50RB#25	21.56	21.86	33.00	PASS
Band25	20MHz	QPSK	26365	50RB#50	21.61	21.91	33.00	PASS
Band25	20MHz	QPSK	26365	100RB#0	21.60	21.90	33.00	PASS
Band25	20MHz	QPSK	26590	1RB#0	22.07	22.37	33.00	PASS
Band25	20MHz	QPSK	26590	1RB#49	22.69	22.99	33.00	PASS
Band25	20MHz	QPSK	26590	1RB#99	22.50	22.80	33.00	PASS
Band25	20MHz	QPSK	26590	50RB#0	21.55	21.85	33.00	PASS
Band25	20MHz	QPSK	26590	50RB#25	21.60	21.90	33.00	PASS
Band25	20MHz	QPSK	26590	50RB#50	21.53	21.83	33.00	PASS
Band25	20MHz	QPSK	26590	100RB#0	21.67	21.97	33.00	PASS
Band25	20MHz	16QAM	26140	1RB#0	21.20	21.50	33.00	PASS
Band25	20MHz	16QAM	26140	1RB#49	21.33	21.63	33.00	PASS
Band25	20MHz	16QAM	26140	1RB#99	21.79	22.09	33.00	PASS
Band25	20MHz	16QAM	26140	50RB#0	20.61	20.91	33.00	PASS
Band25	20MHz	16QAM	26140	50RB#25	20.69	20.99	33.00	PASS
Band25	20MHz	16QAM	26140	50RB#50	20.76	21.06	33.00	PASS
Band25	20MHz	16QAM	26140	100RB#0	21.77	22.07	33.00	PASS
Band25	20MHz	16QAM	26365	1RB#0	21.83	22.13	33.00	PASS
Band25	20MHz	16QAM	26365	1RB#49	21.28	21.58	33.00	PASS
Band25	20MHz	16QAM	26365	1RB#99	21.63	21.93	33.00	PASS
Band25	20MHz	16QAM	26365	50RB#0	20.72	21.02	33.00	PASS
Band25	20MHz	16QAM	26365	50RB#25	20.62	20.92	33.00	PASS
Band25	20MHz	16QAM	26365	50RB#50	20.58	20.88	33.00	PASS
Band25	20MHz	16QAM	26365	100RB#0	20.67	20.97	33.00	PASS
Band25	20MHz	16QAM	26590	1RB#0	21.11	21.41	33.00	PASS
Band25	20MHz	16QAM	26590	1RB#49	21.76	22.06	33.00	PASS
Band25	20MHz	16QAM	26590	1RB#99	21.98	22.28	33.00	PASS

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Band25	20MHz	16QAM	26590	50RB#0	20.53	20.83	33.00	PASS
Band25	20MHz	16QAM	26590	50RB#25	20.73	21.03	33.00	PASS
Band25	20MHz	16QAM	26590	50RB#50	20.56	20.86	33.00	PASS
Band25	20MHz	16QAM	26590	100RB#0	20.49	20.79	33.00	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

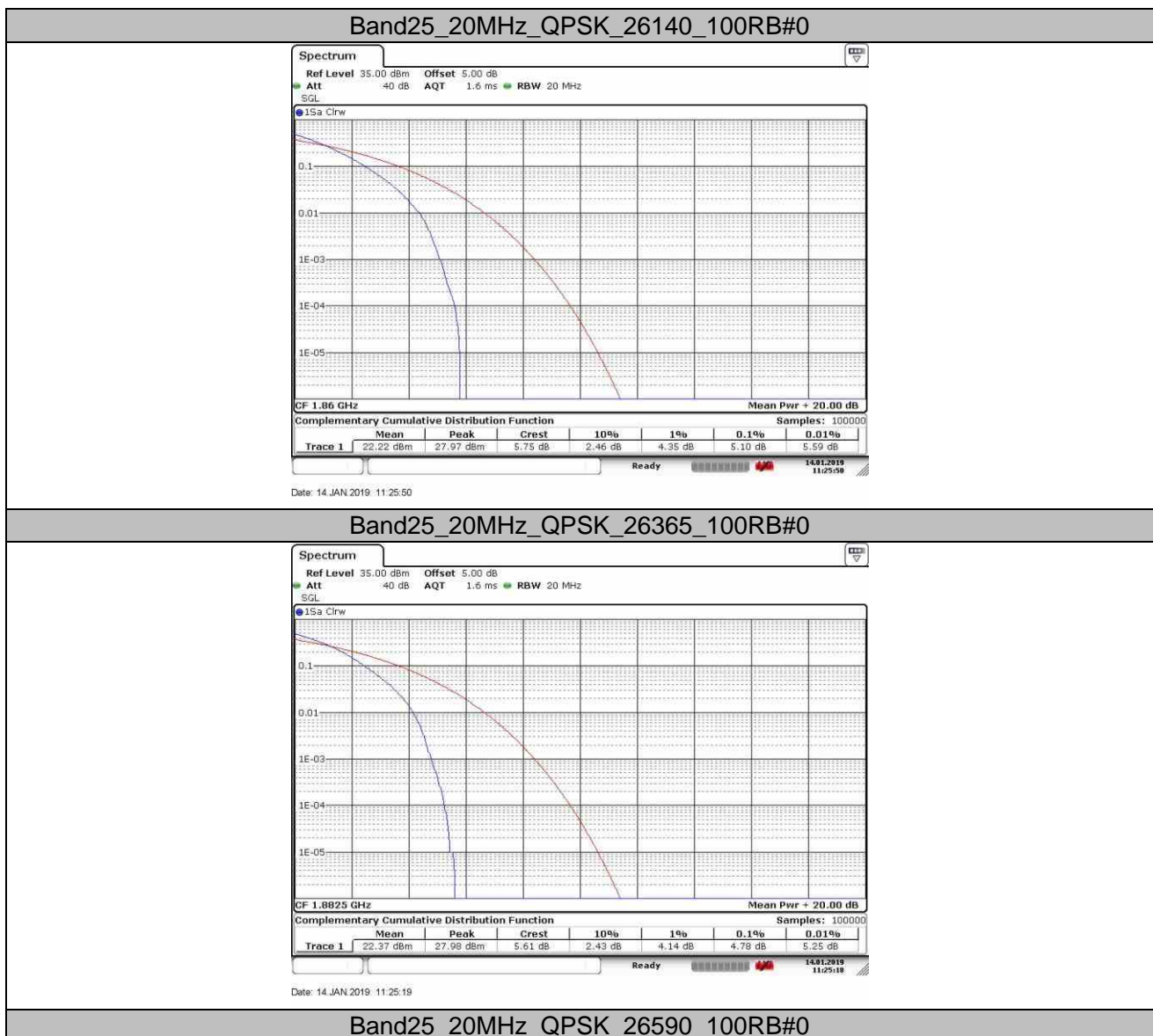


2 Peak-to-Average Ratio

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	5.10	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	4.78	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	4.84	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.12	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.03	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.12	13	PASS

2.2. Test Plots

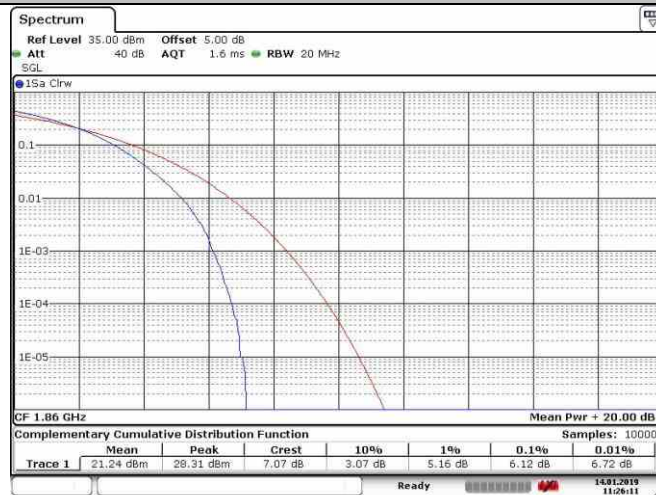


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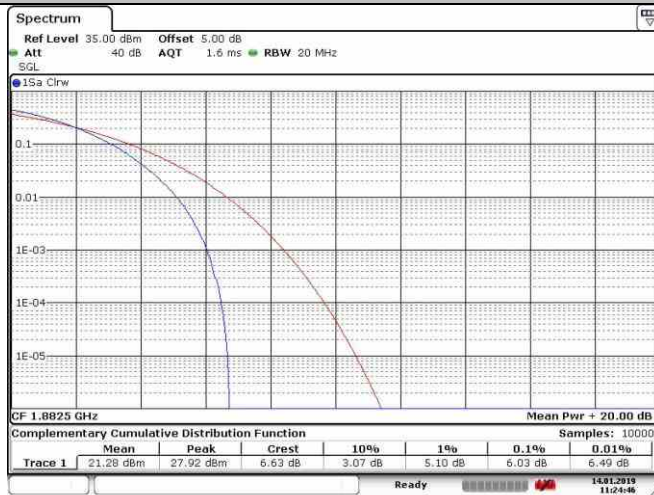
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Band25_20MHz_16QAM_26140_100RB#0



Date: 14.JAN.2019 11:28:11

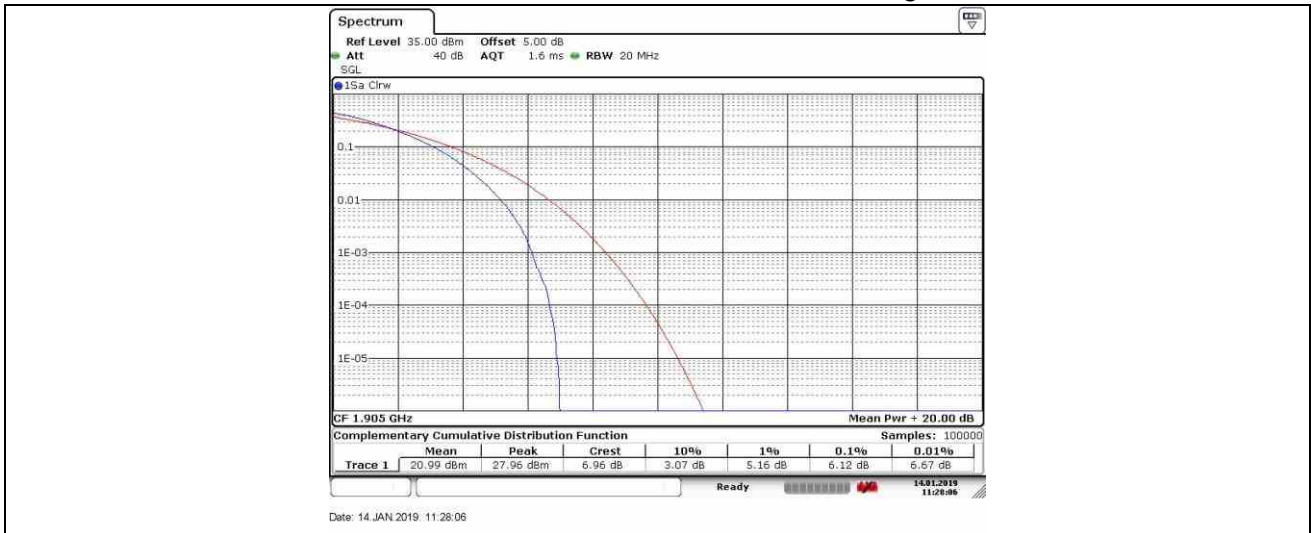
Band25_20MHz_16QAM_26365_100RB#0



Date: 14.JAN.2019 11:24:47

Band25_20MHz_16QAM_26590_100RB#0

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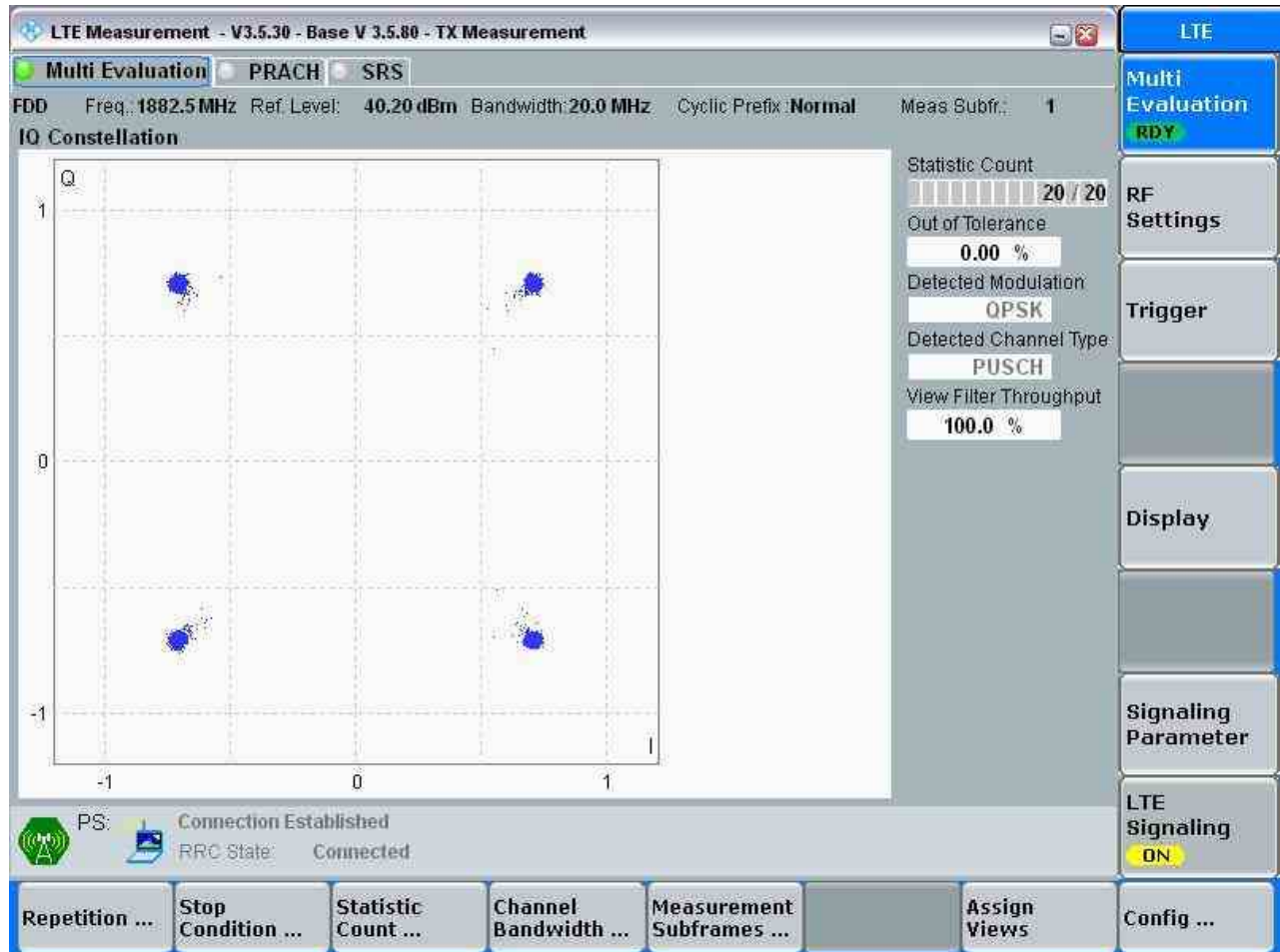
3 Modulation Characteristics

3.1. For LTE

3.1.1. Test BAND = LTE Band 25

3.1.1.1 Test Mode = LTE /TM1 20MHz

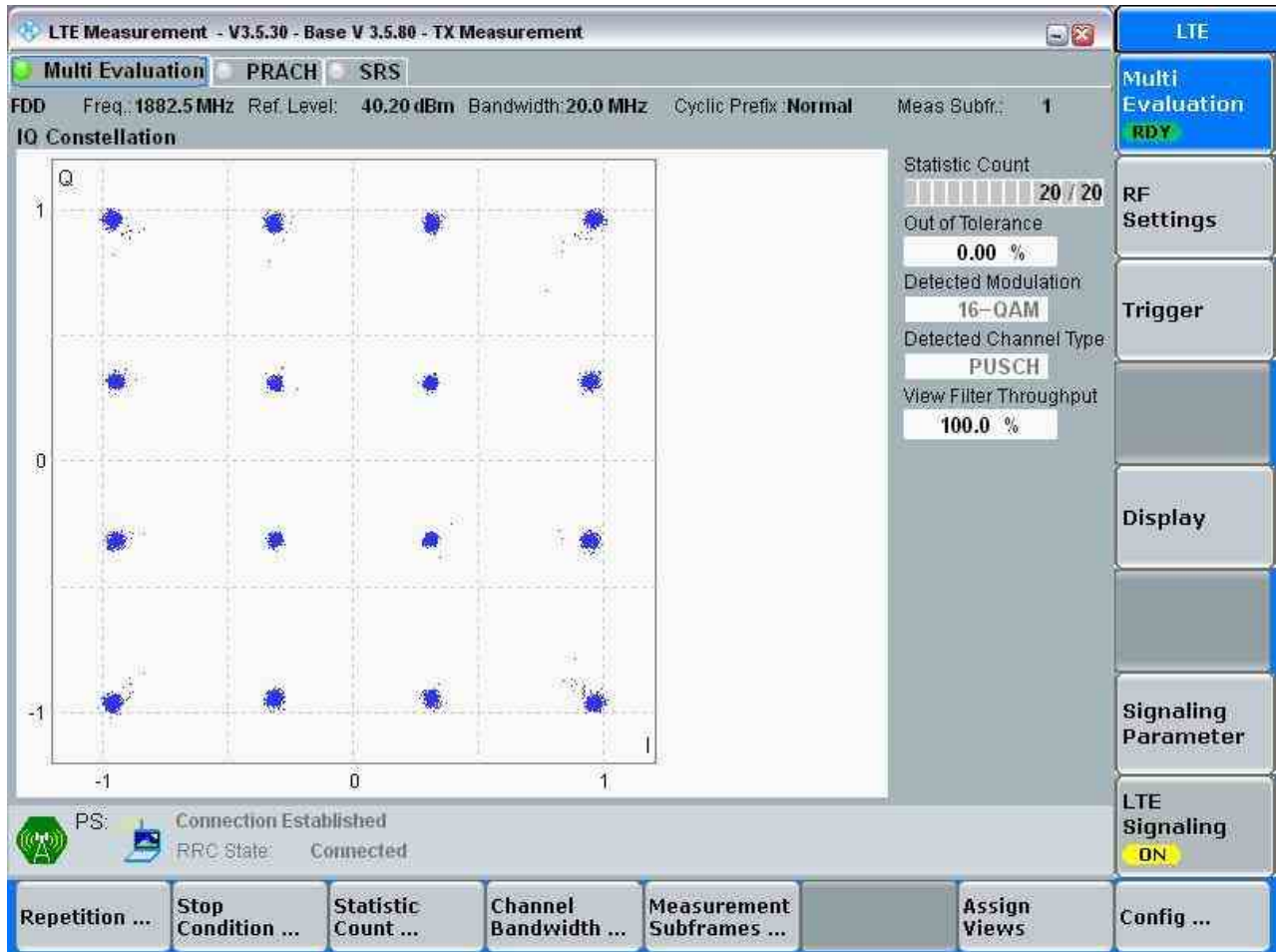
3.1.1.1.1 Test Channel = MCH



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3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH



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4 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

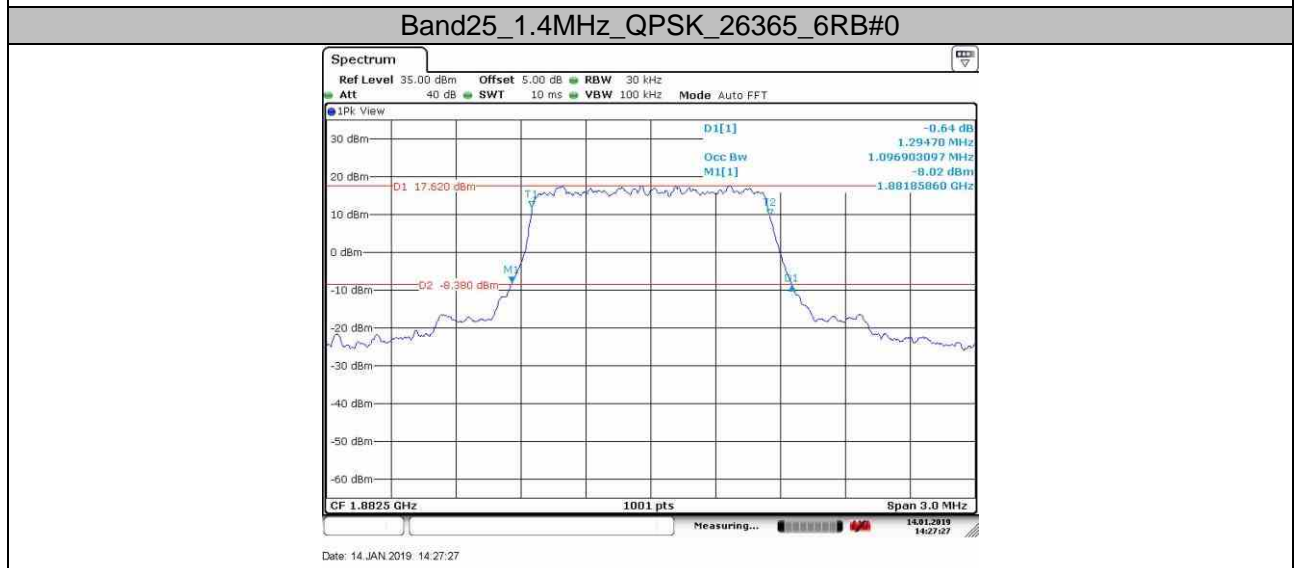
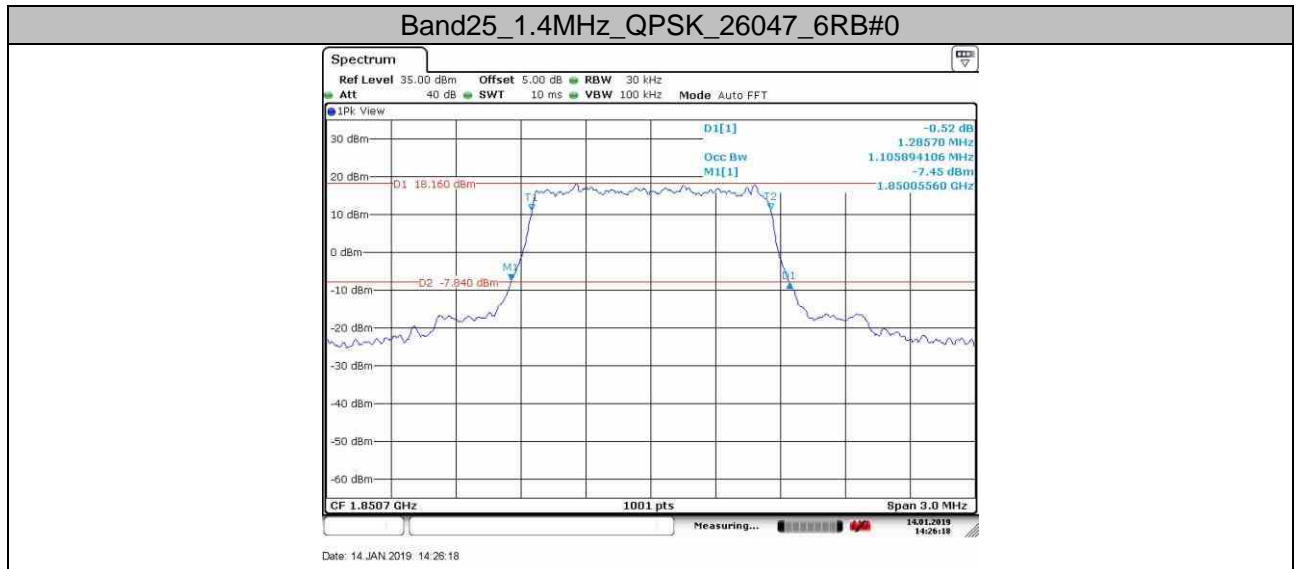
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.106	1.286	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.097	1.295	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.100	1.307	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.097	1.298	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.100	1.307	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.097	1.298	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.685	2.919	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.691	2.925	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.685	2.937	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.685	2.937	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.685	2.937	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.679	2.931	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.486	4.938	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.486	4.915	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.466	4.895	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.476	4.868	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.486	4.935	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.476	4.945	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.951	9.755	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.911	9.670	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.911	9.690	PASS
Band25	10MHz	16QAM	26090	50RB#0	8.911	9.635	PASS
Band25	10MHz	16QAM	26365	50RB#0	8.911	9.670	PASS
Band25	10MHz	16QAM	26640	50RB#0	8.911	9.650	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.457	14.865	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.367	14.715	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.397	14.715	PASS
Band25	15MHz	16QAM	26115	75RB#0	13.457	14.715	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.427	14.715	PASS
Band25	15MHz	16QAM	26615	75RB#0	13.397	14.715	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.902	19.580	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.862	19.178	PASS

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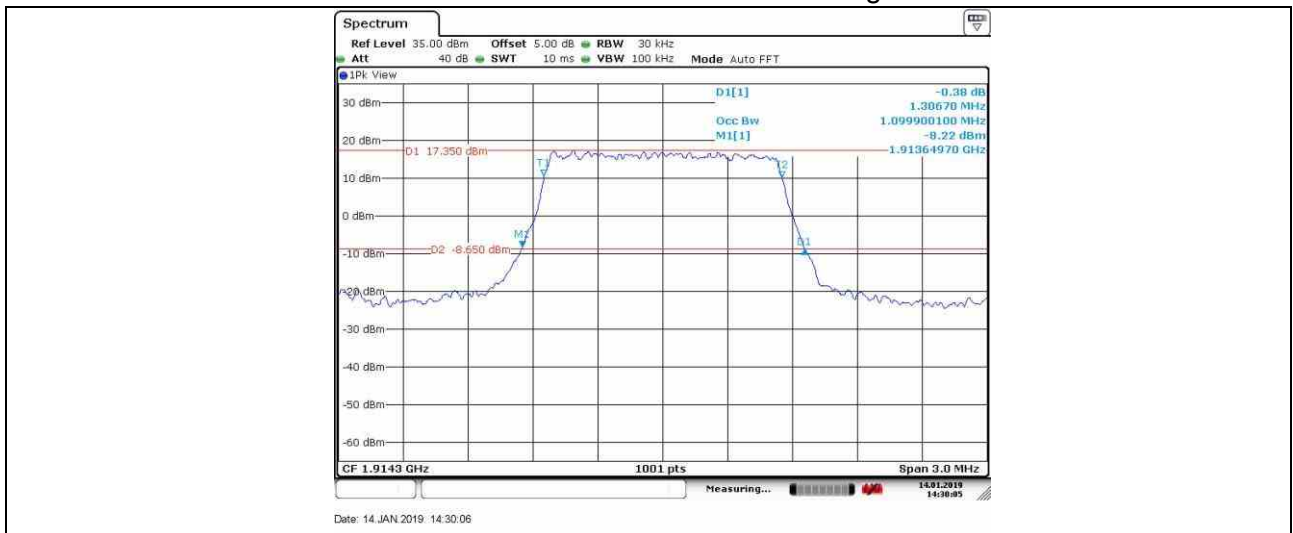
Band25	20MHz	QPSK	26590	100RB#0	17.822	19.176	PASS
Band25	20MHz	16QAM	26140	100RB#0	17.862	19.341	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.862	19.298	PASS
Band25	20MHz	16QAM	26590	100RB#0	17.822	19.336	PASS

4.2. Test Plots

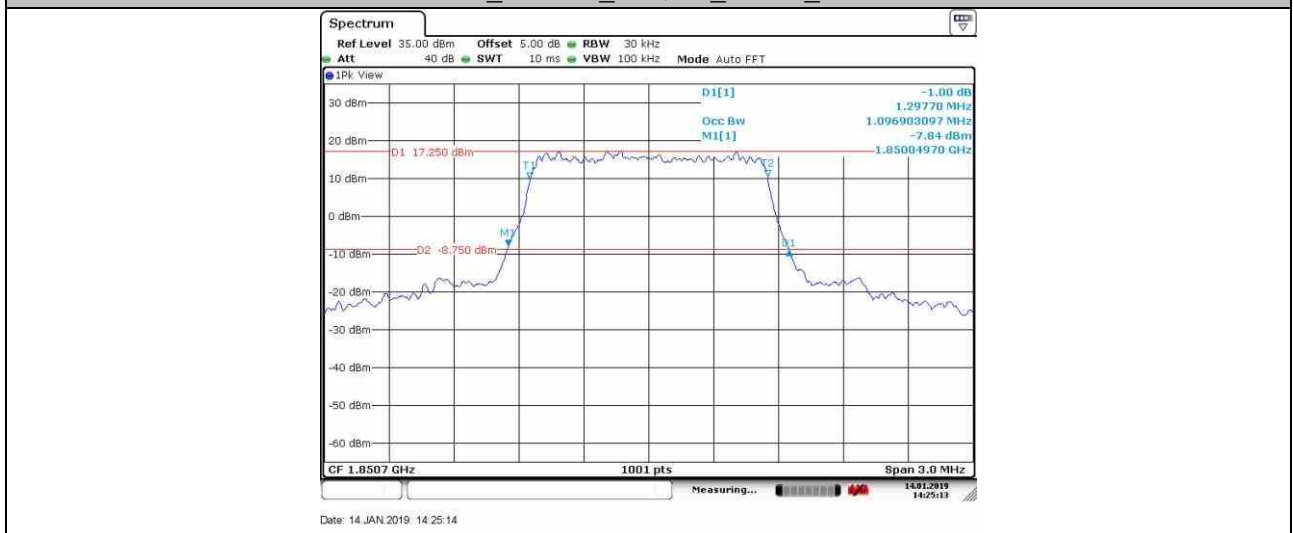


Band25_1.4MHz_QPSK_26683_6RB#0

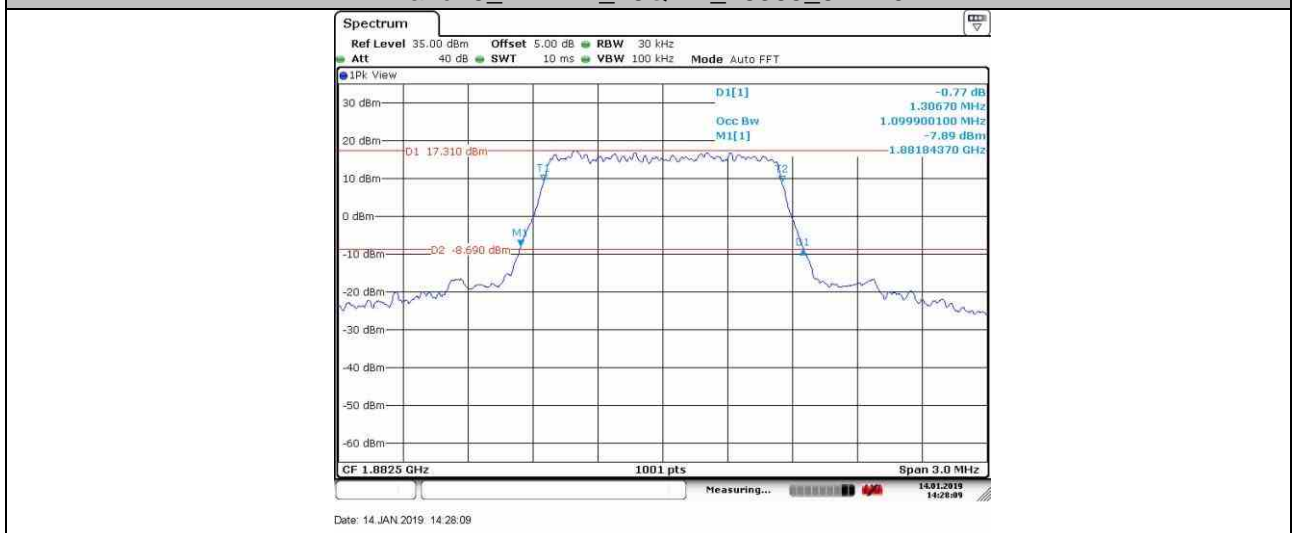
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Band25_1.4MHz_16QAM_26047_6RB#0

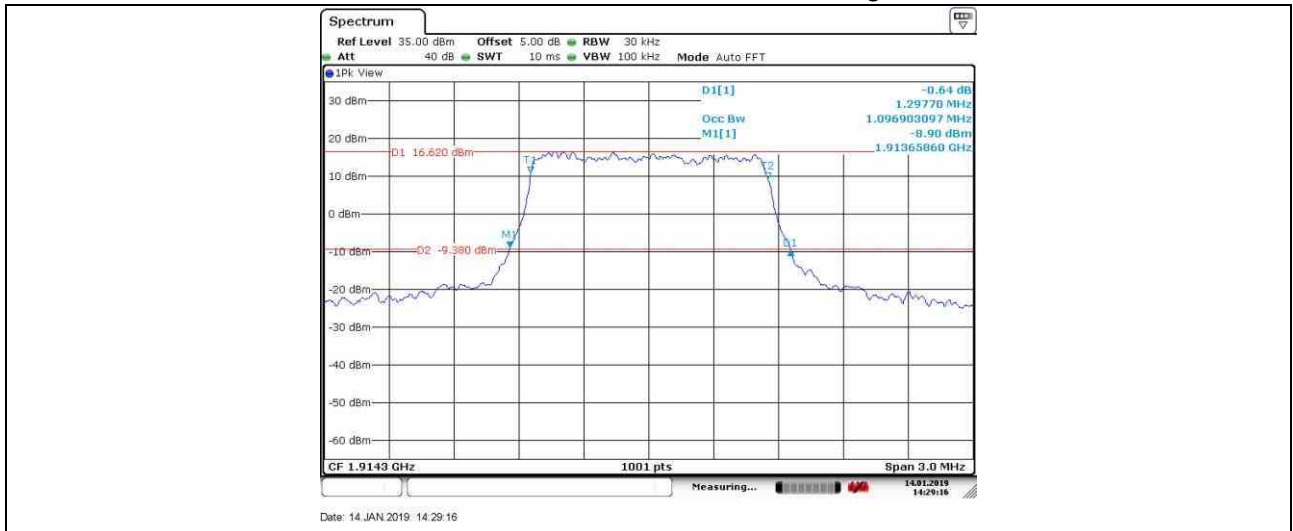


Band25_1.4MHz_16QAM_26365_6RB#0

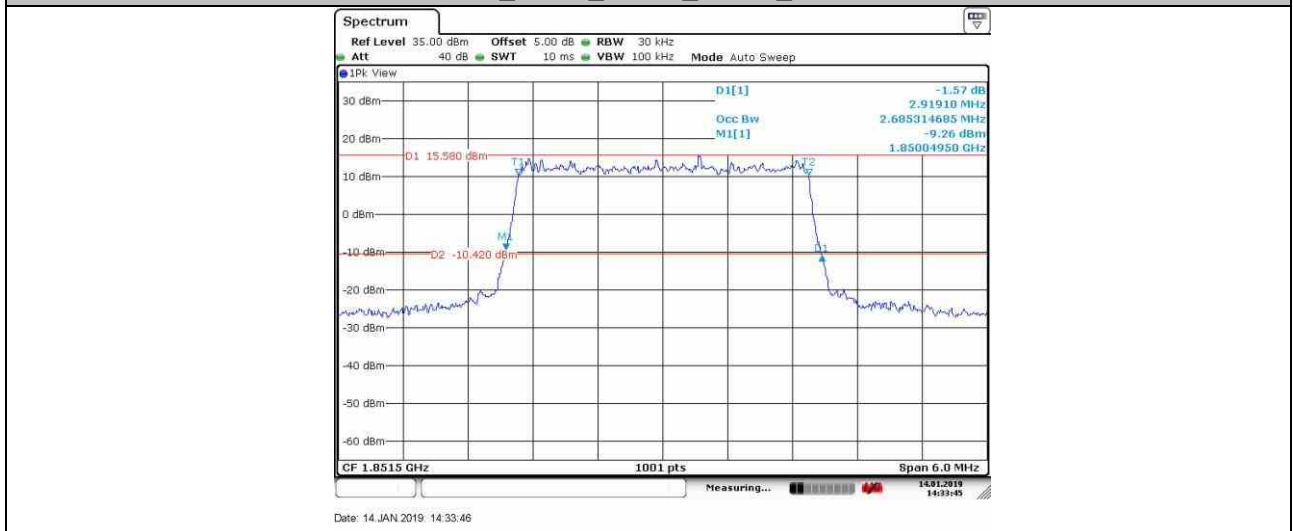


Band25_1.4MHz_16QAM_26683_6RB#0

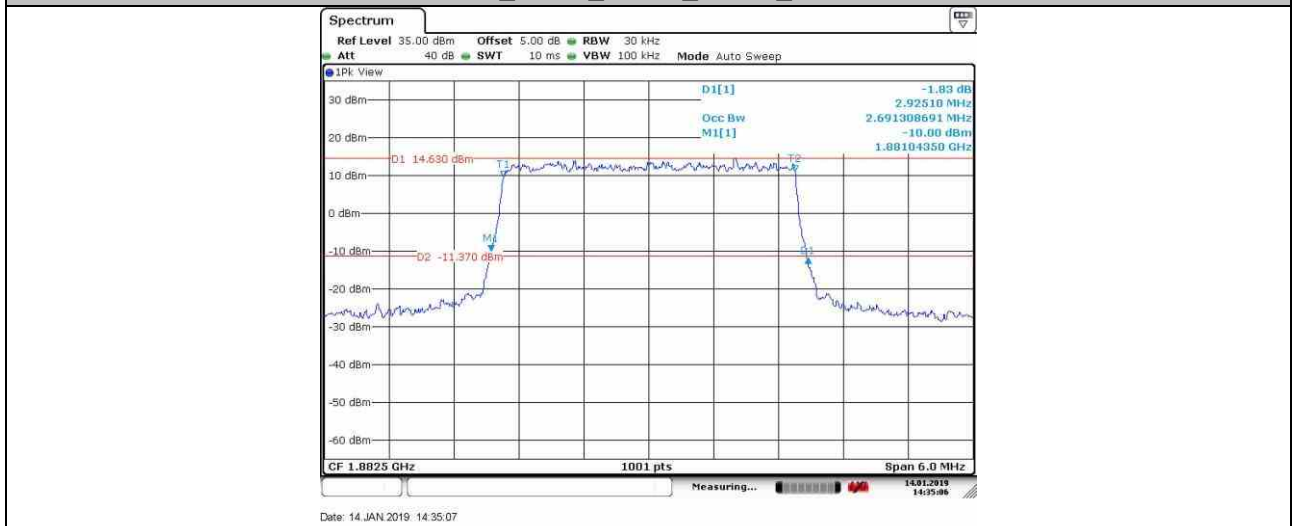
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Band25_3MHz_QPSK_26055_15RB#0

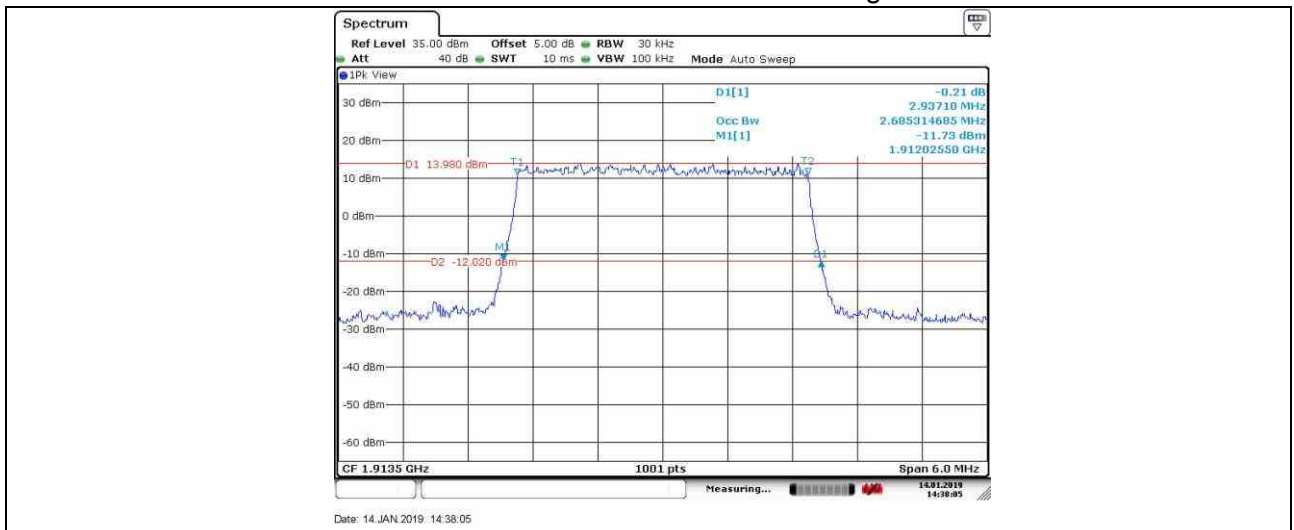


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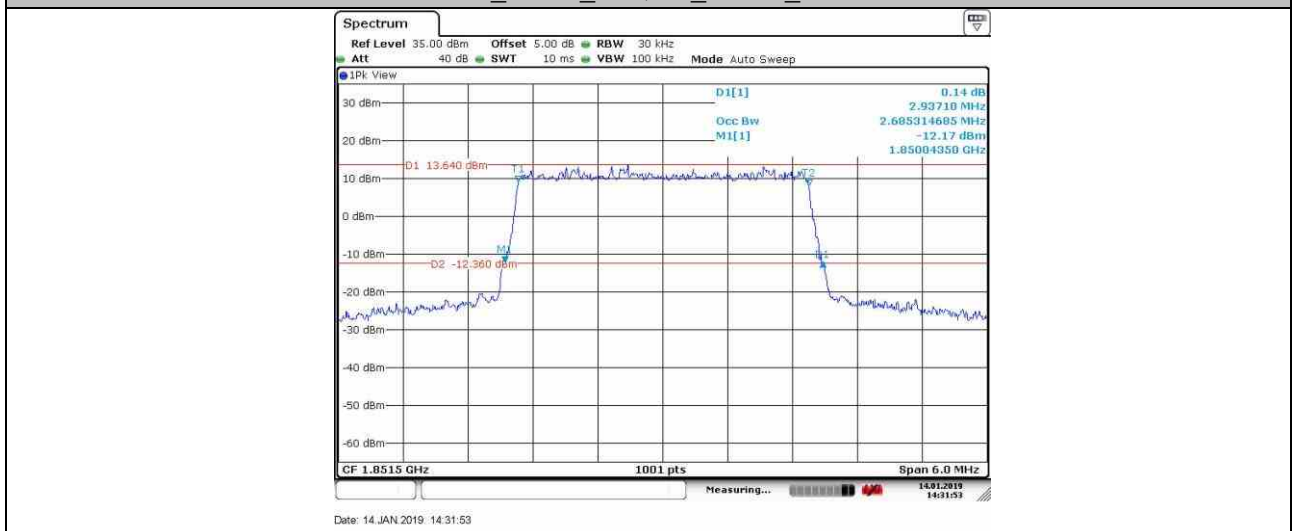


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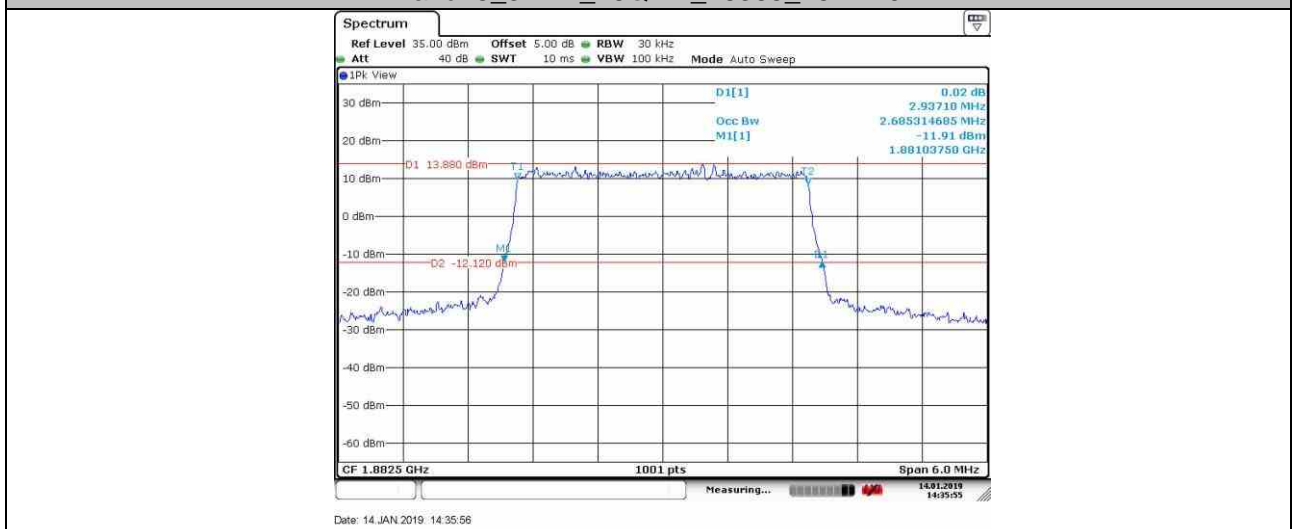
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Band25_3MHz_16QAM_26055_15RB#0

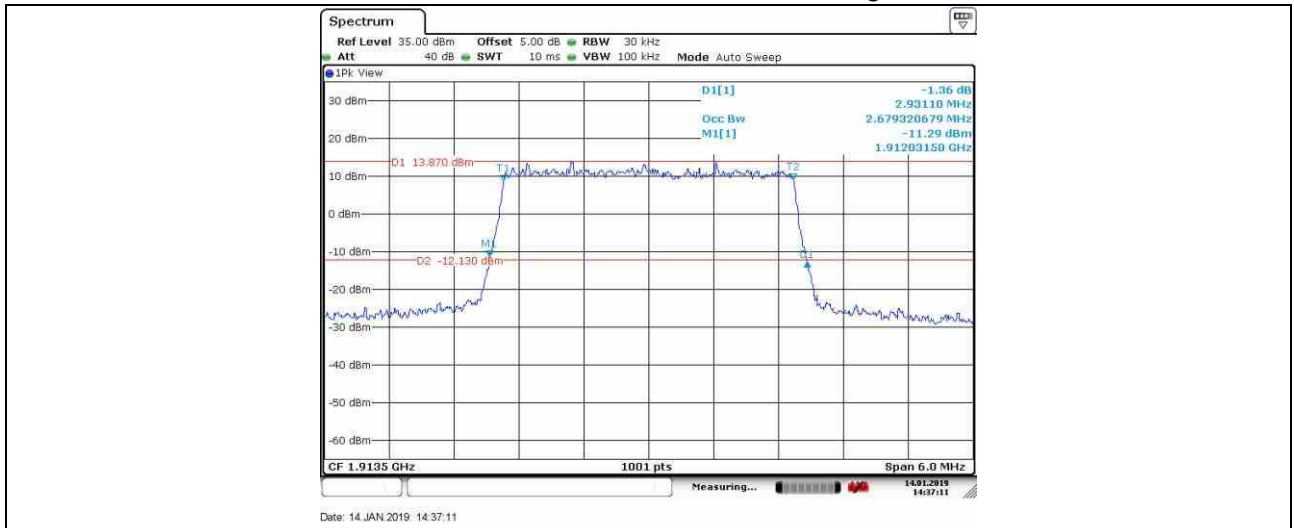


Band25_3MHz_16QAM_26365_15RB#0

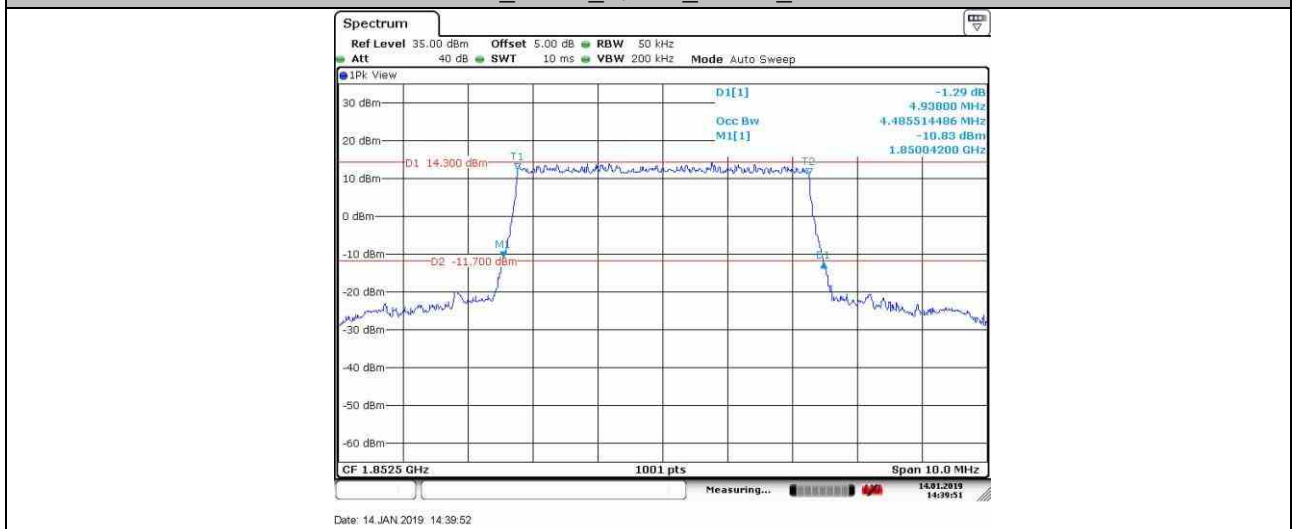


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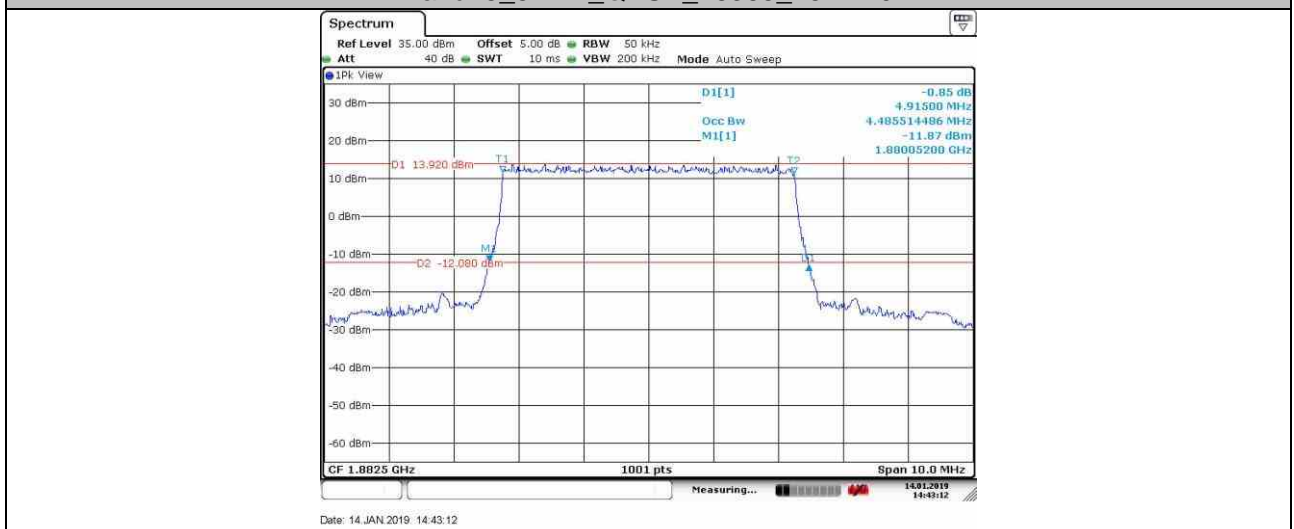
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Band25_5MHz_QPSK_26065_25RB#0

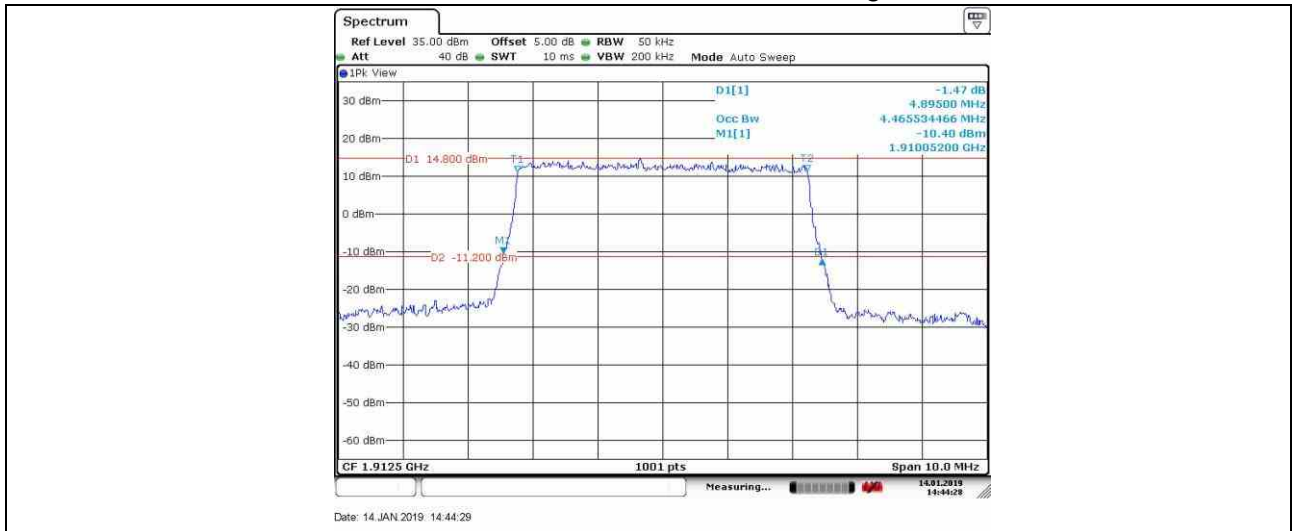


Band25_5MHz_QPSK_26365_25RB#0

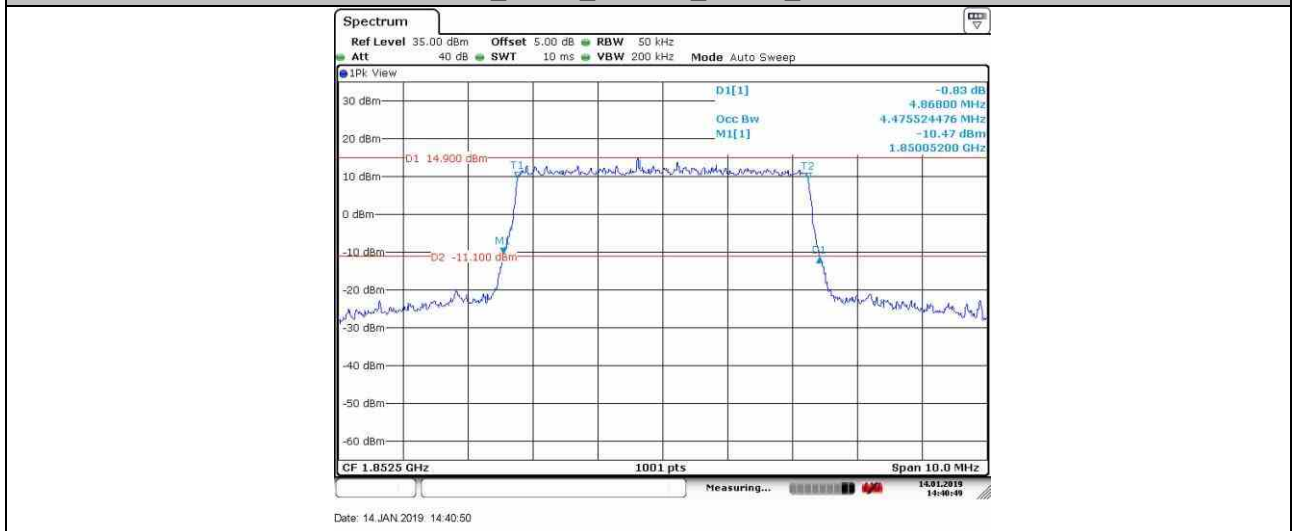


Band25_5MHz_QPSK_26665_25RB#0

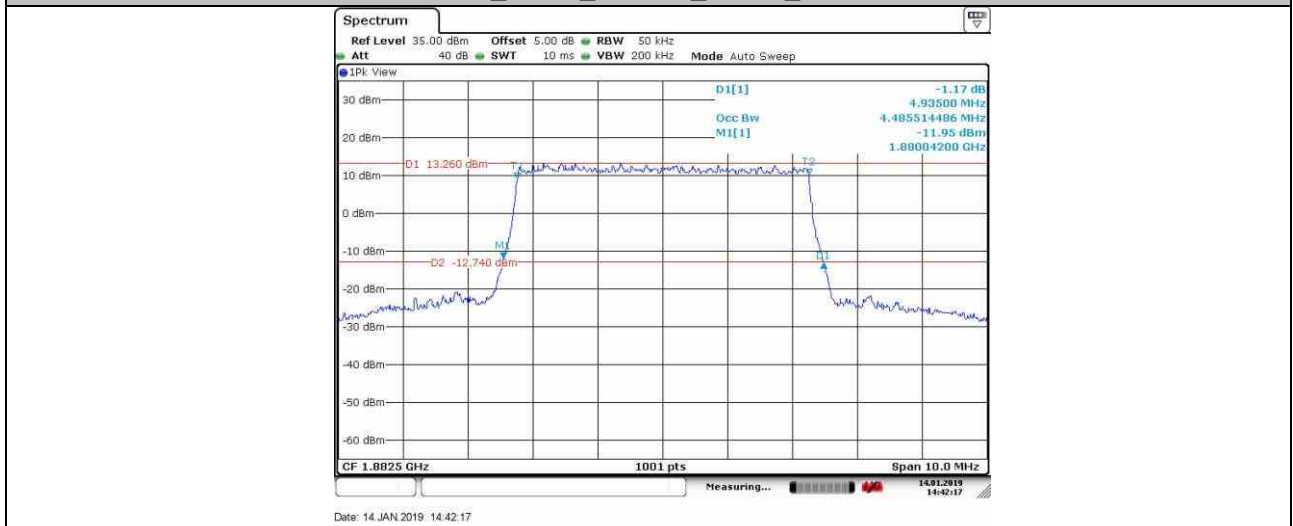
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Band25_5MHz_16QAM_26065_25RB#0

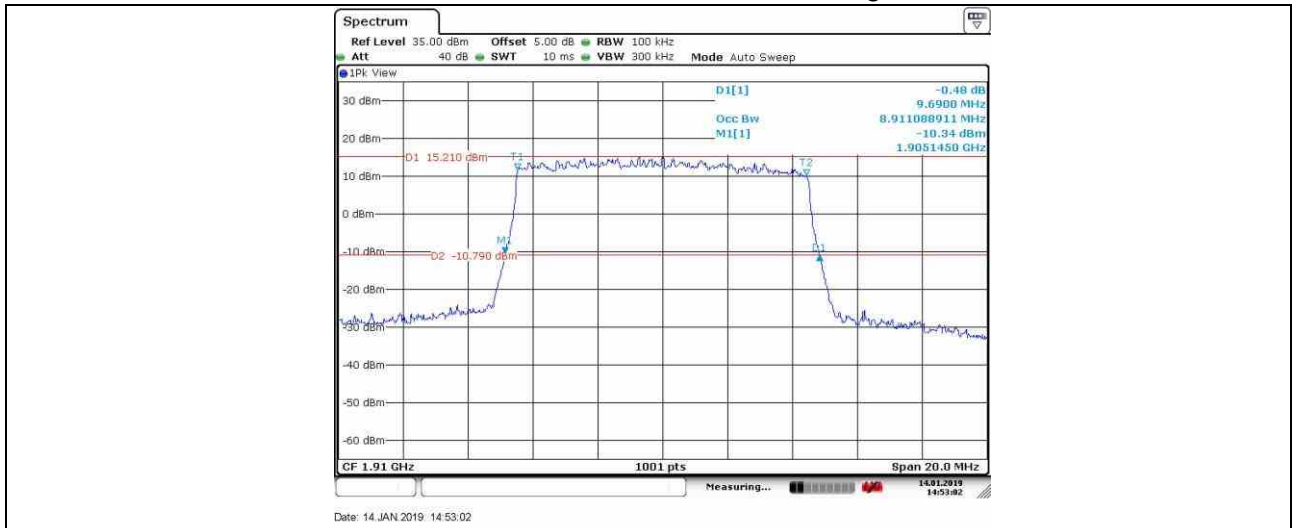


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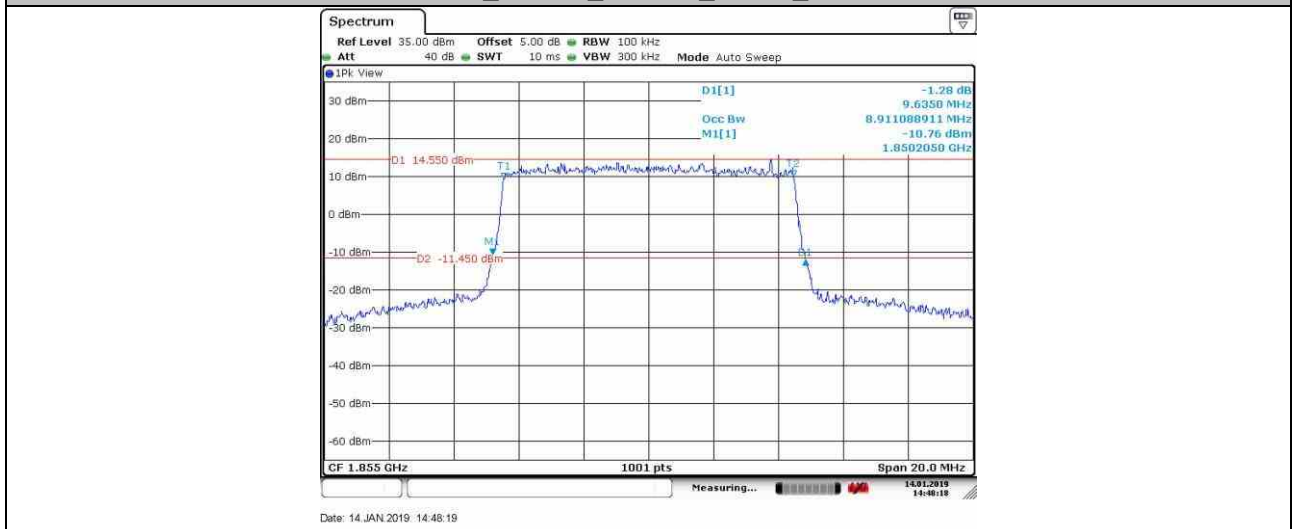


Band25_5MHz_16QAM_26665_25RB#0

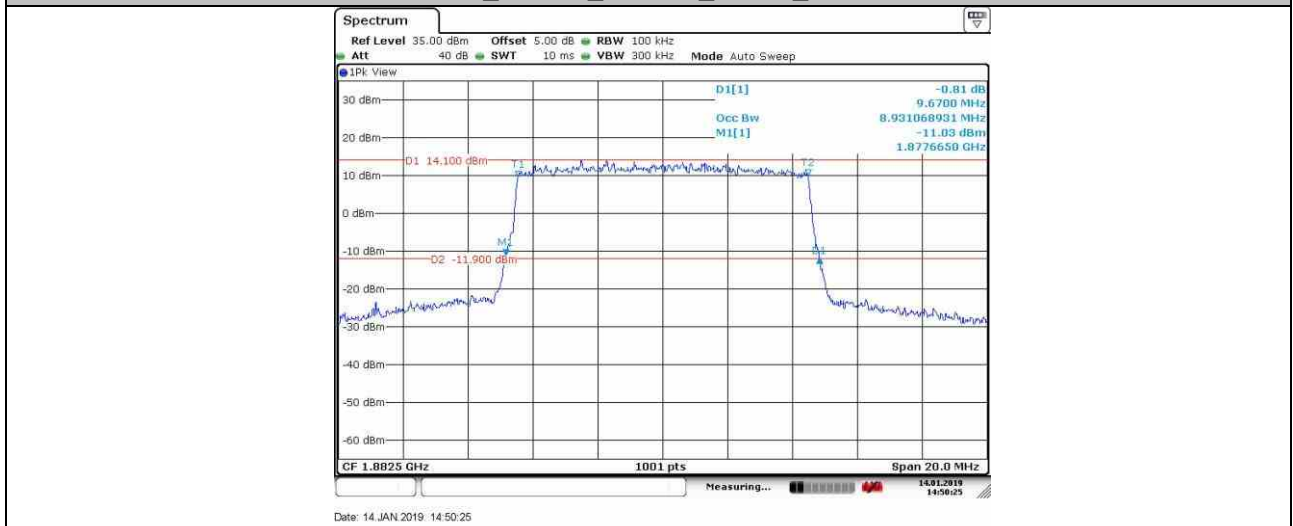
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Band25_10MHz_16QAM_26090_50RB#0

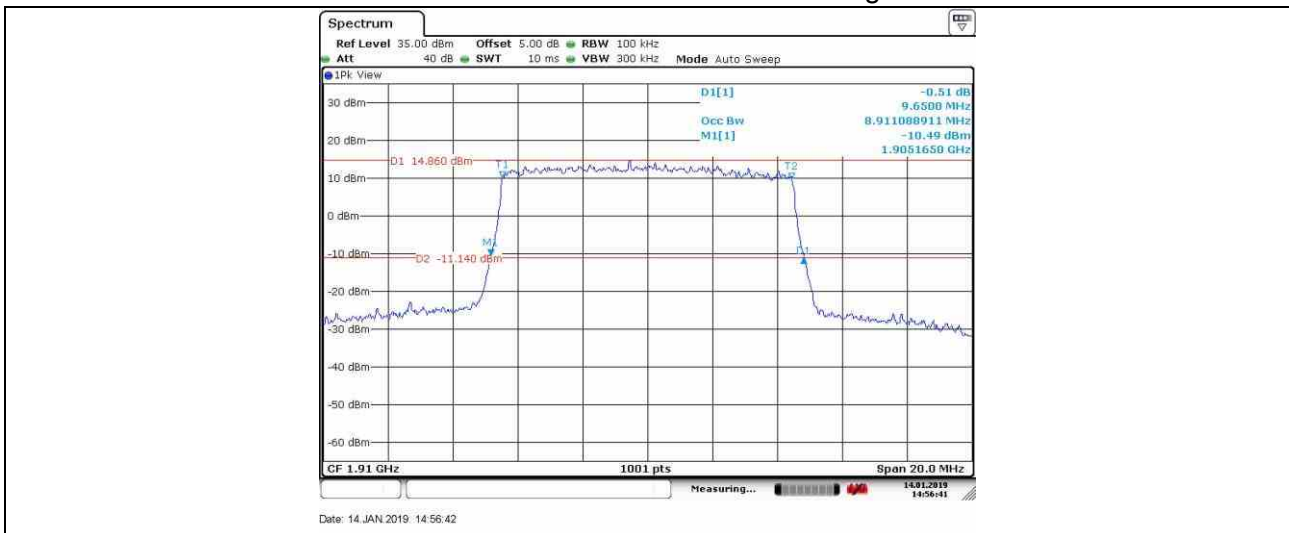


Band25_10MHz_16QAM_26365_50RB#0

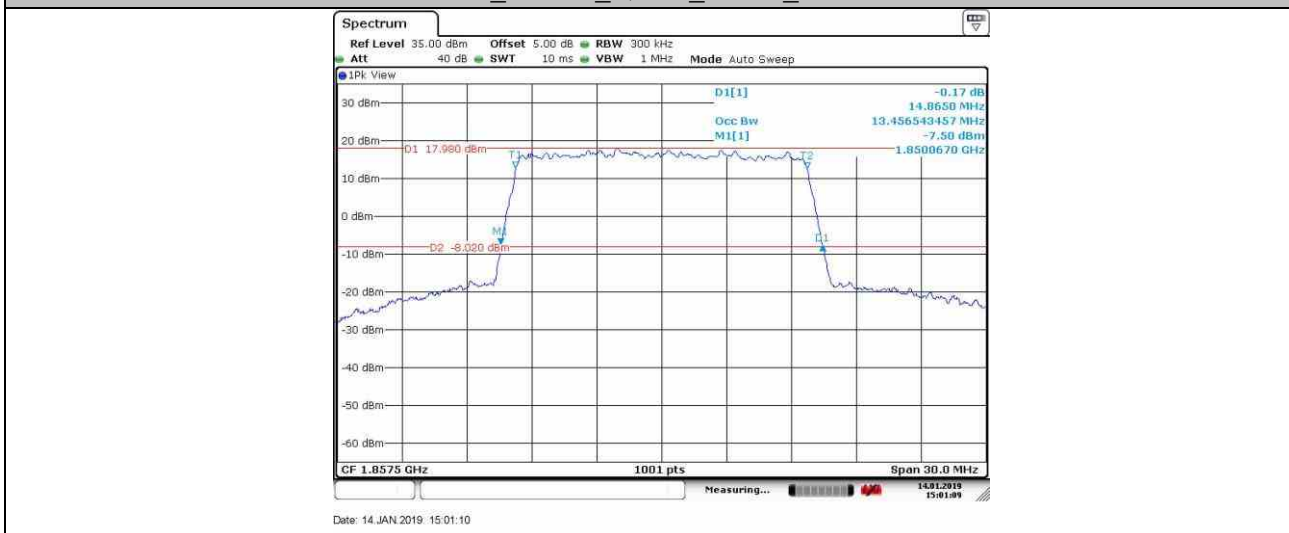


Band25_10MHz_16QAM_26640_50RB#0

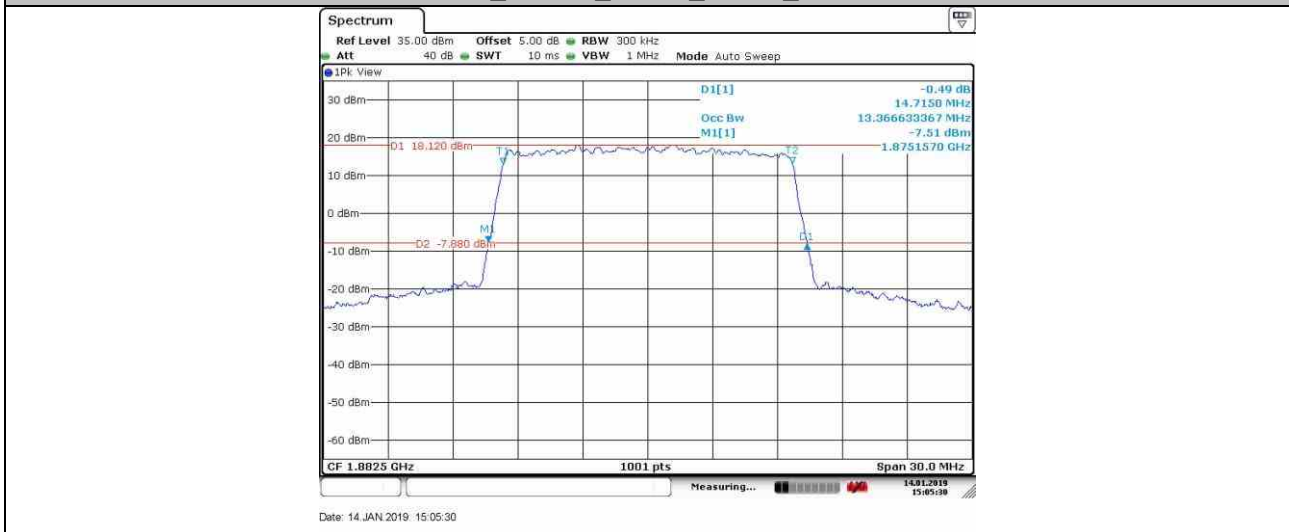
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Band25_15MHz_QPSK_26115_75RB#0

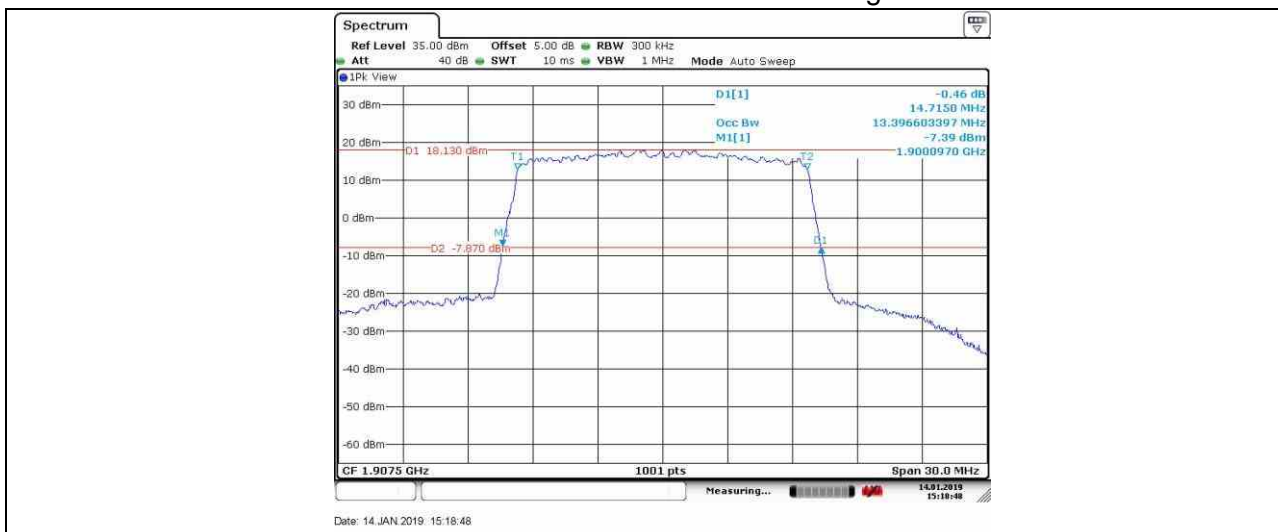


Band25_15MHz_QPSK_26365_75RB#0

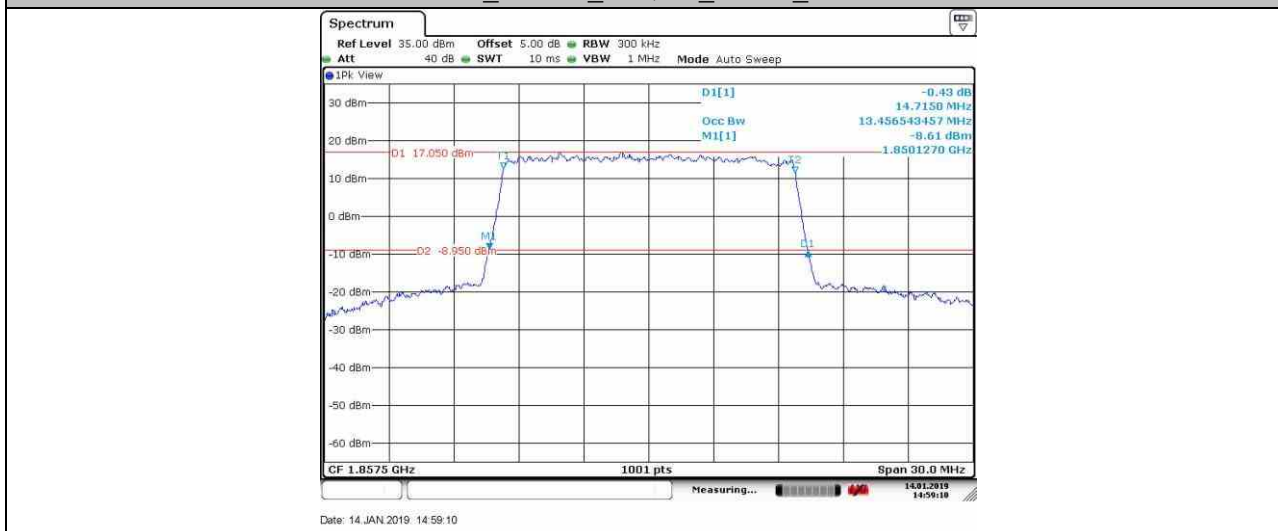


Band25_15MHz_QPSK_26615_75RB#0

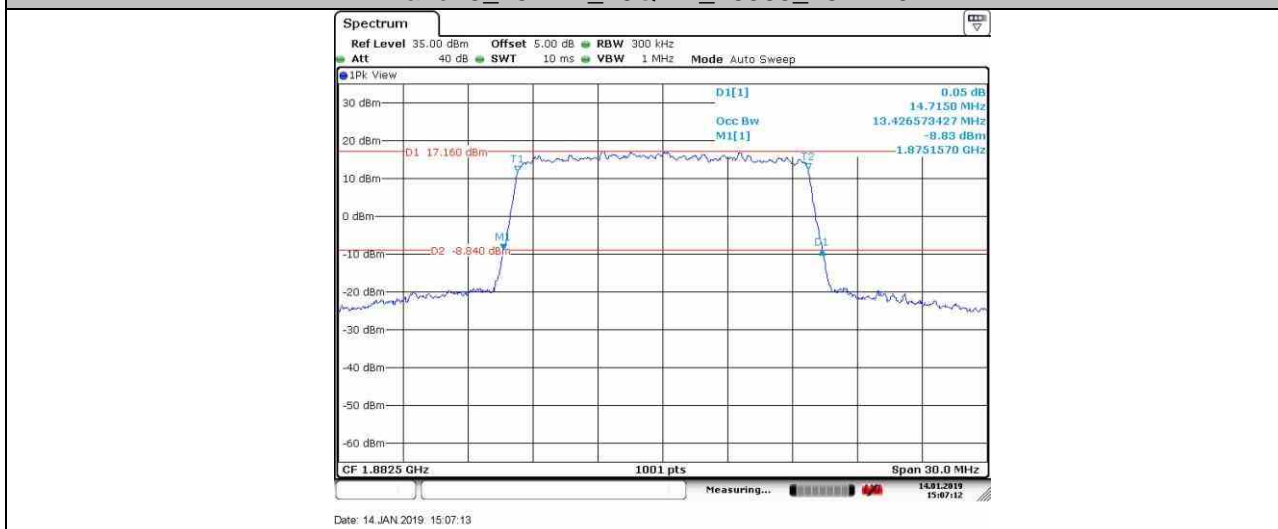
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Band25_15MHz_16QAM_26115_75RB#0

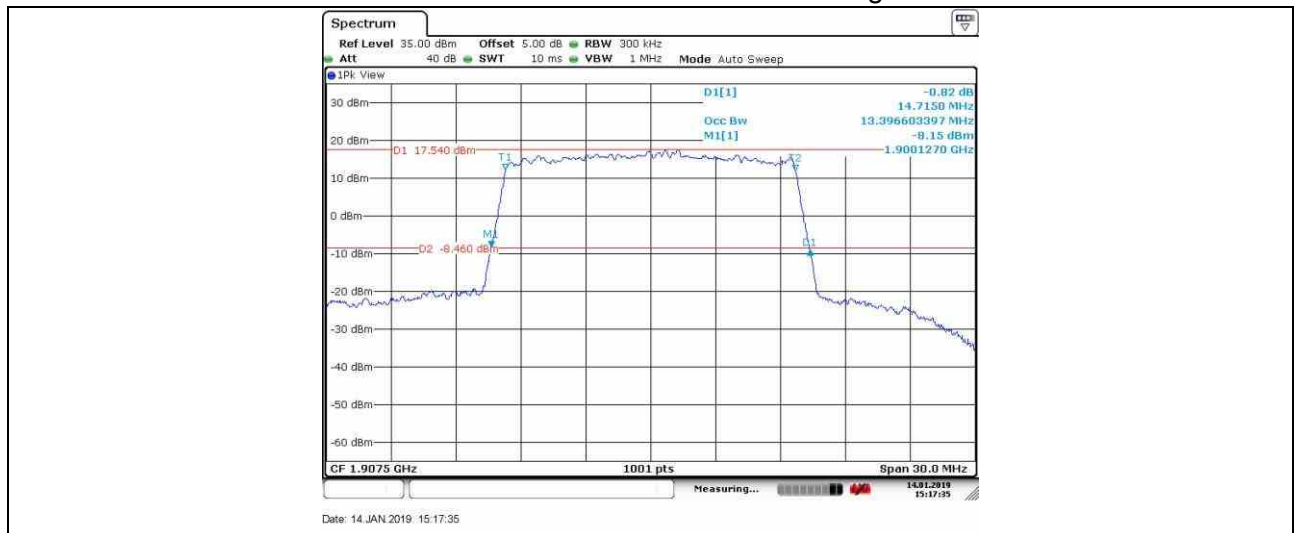


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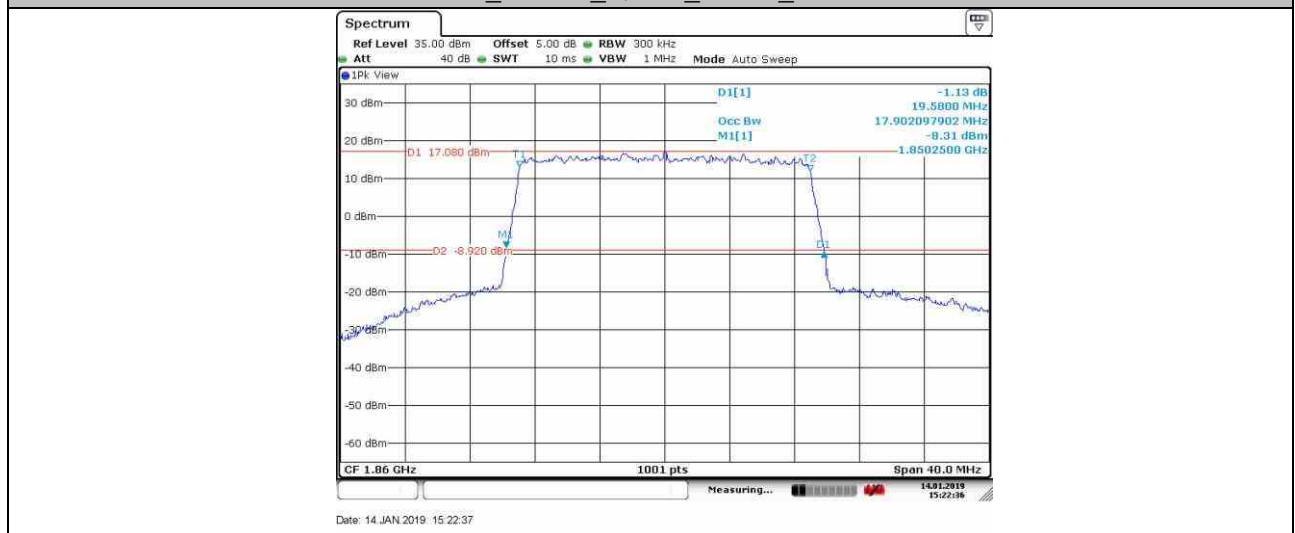


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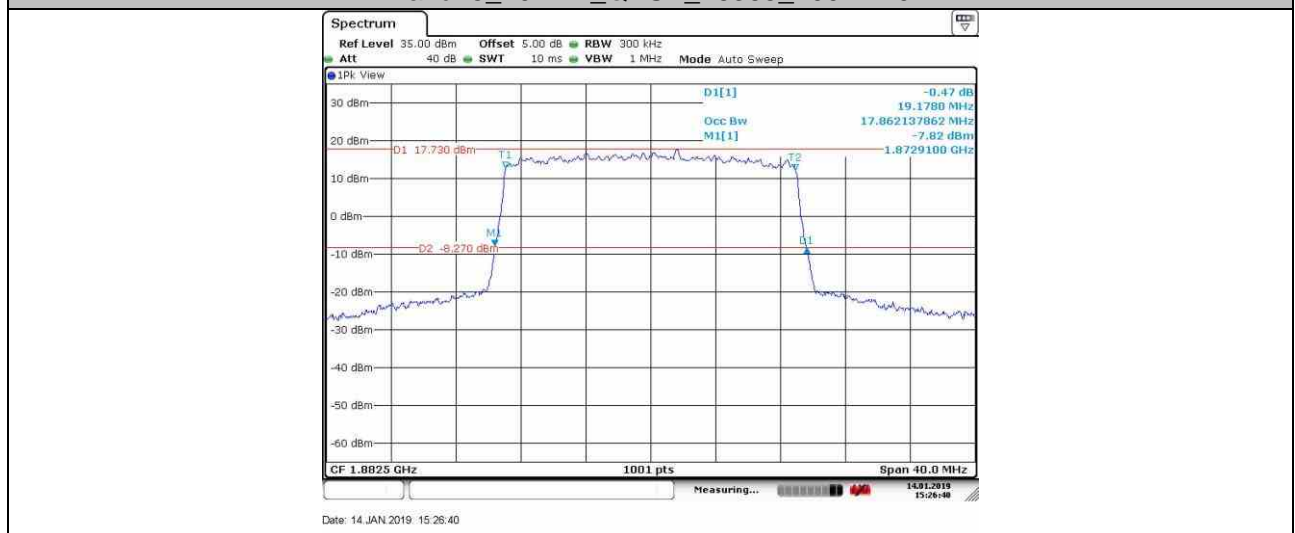
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Band25_20MHz_QPSK_26140_100RB#0

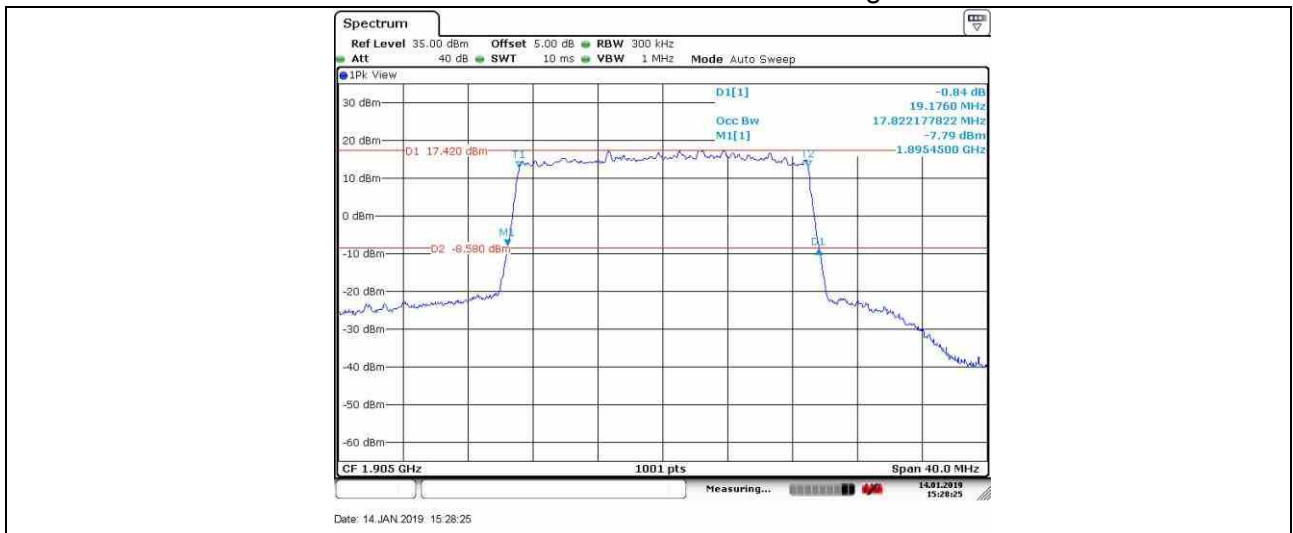


Band25_20MHz_QPSK_26365_100RB#0

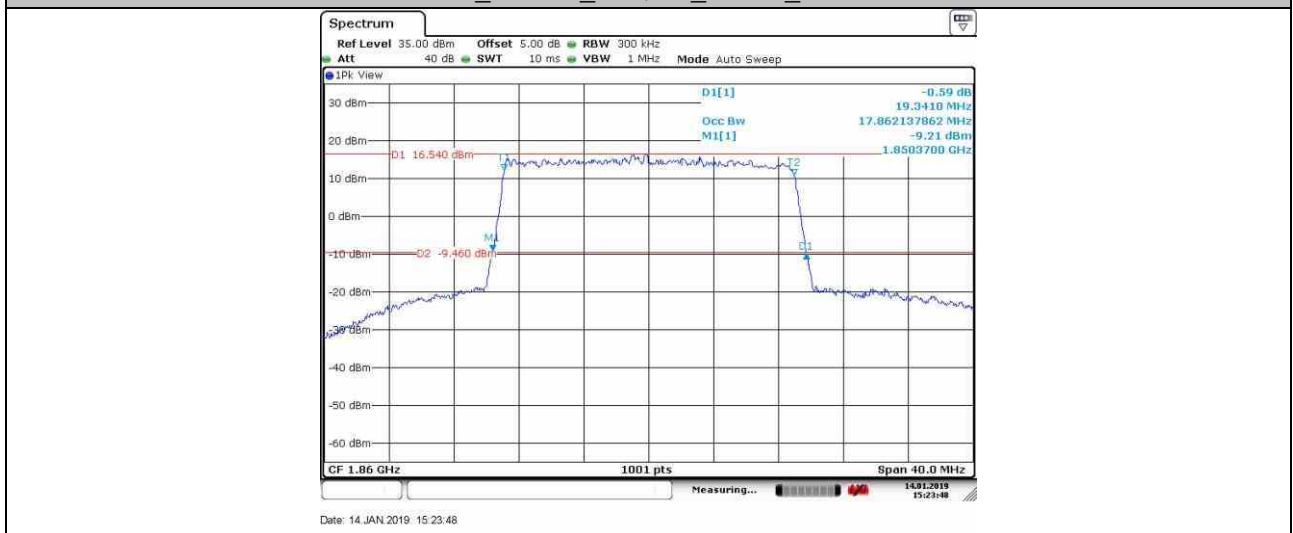


Band25_20MHz_QPSK_26590_100RB#0

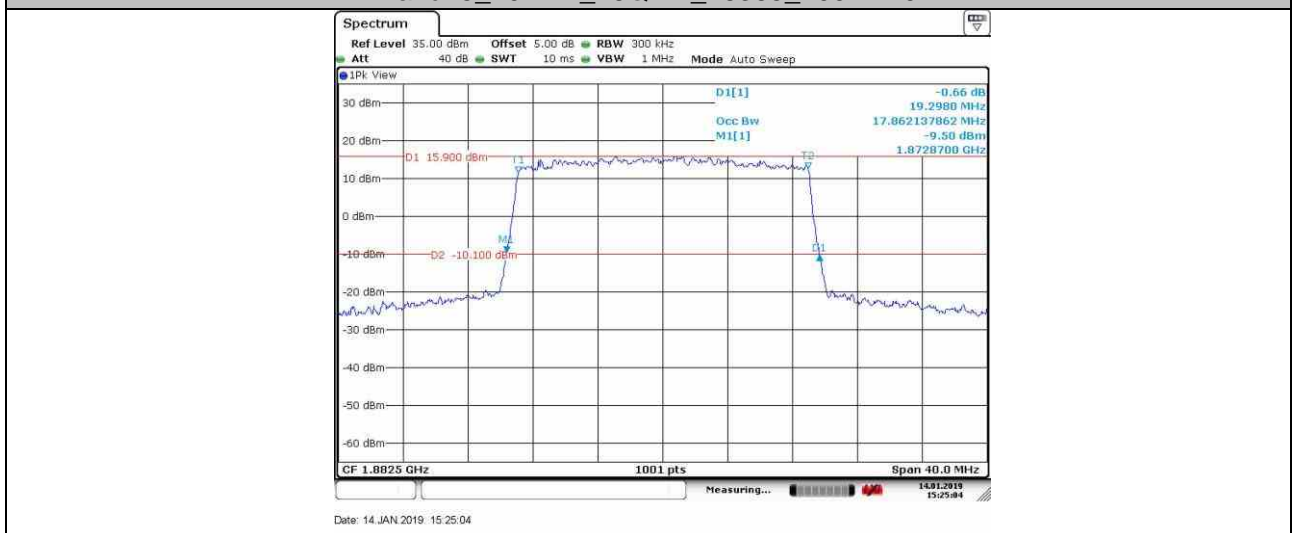
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Band25_20MHz_16QAM_26140_100RB#0

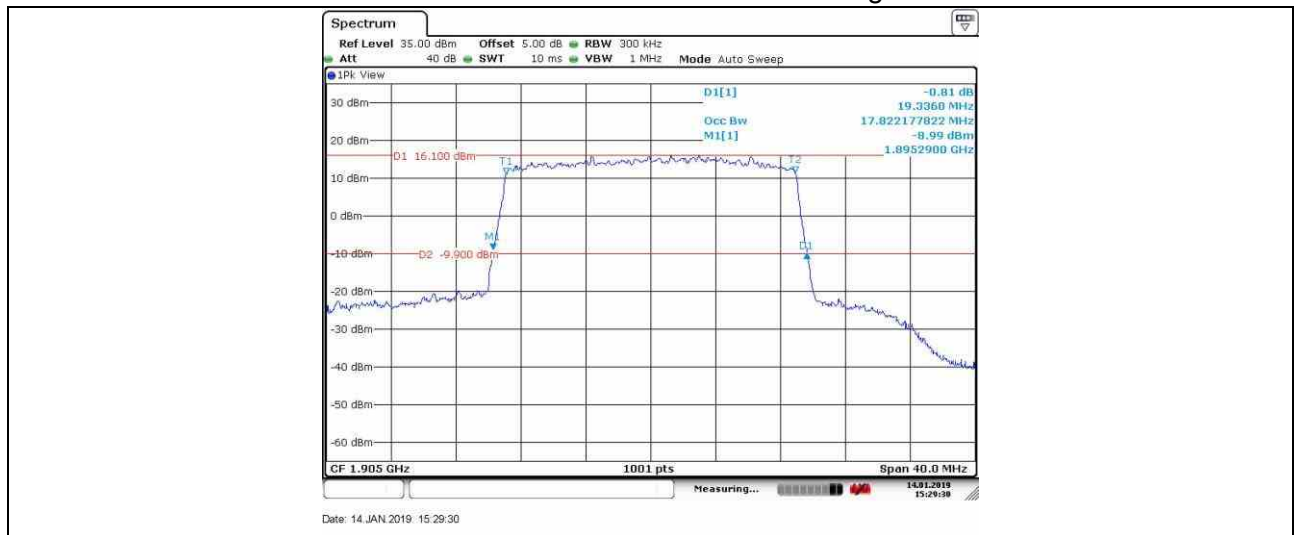


Band25_20MHz_16QAM_26365_100RB#0



Band25_20MHz_16QAM_26590_100RB#0

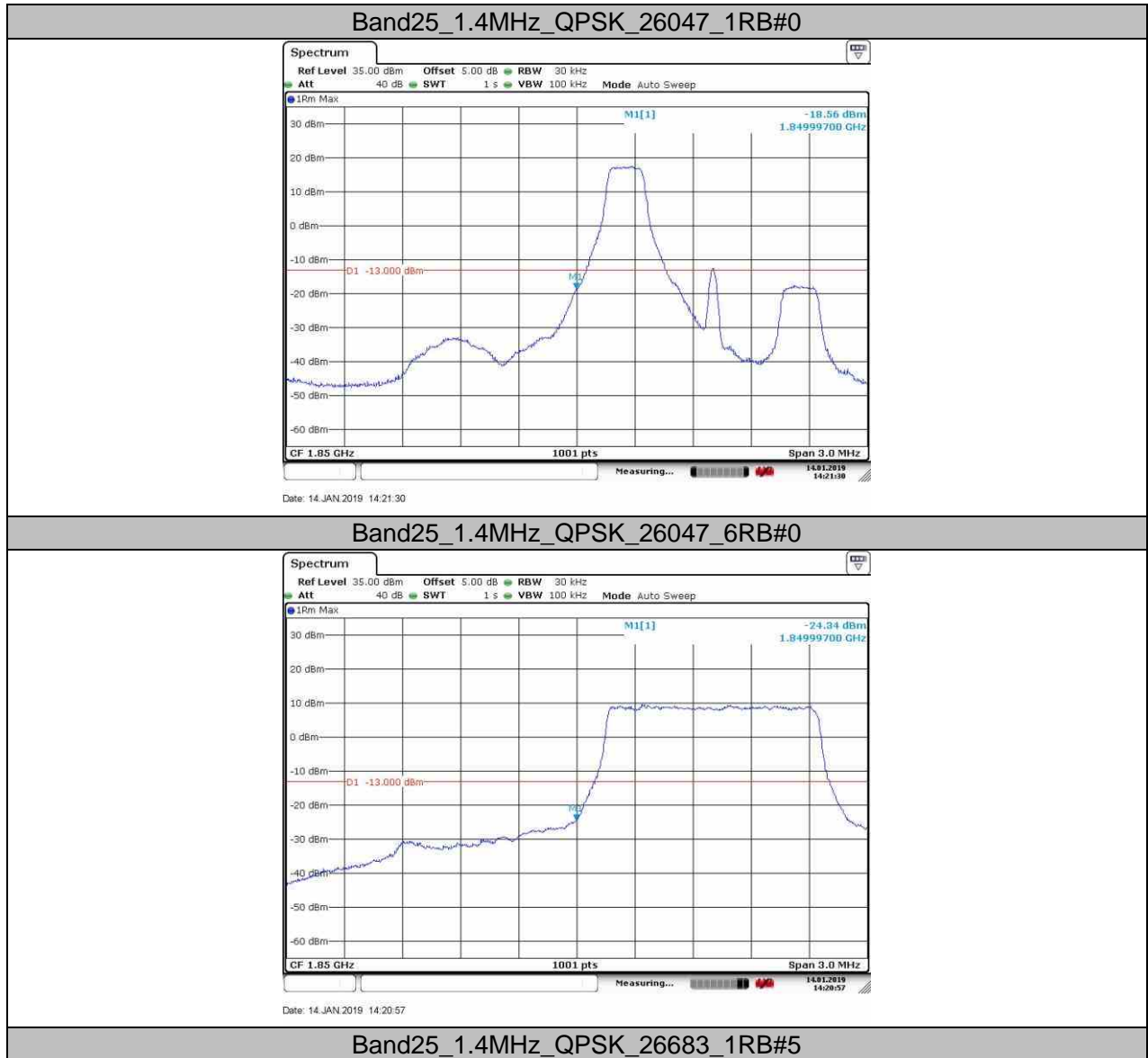
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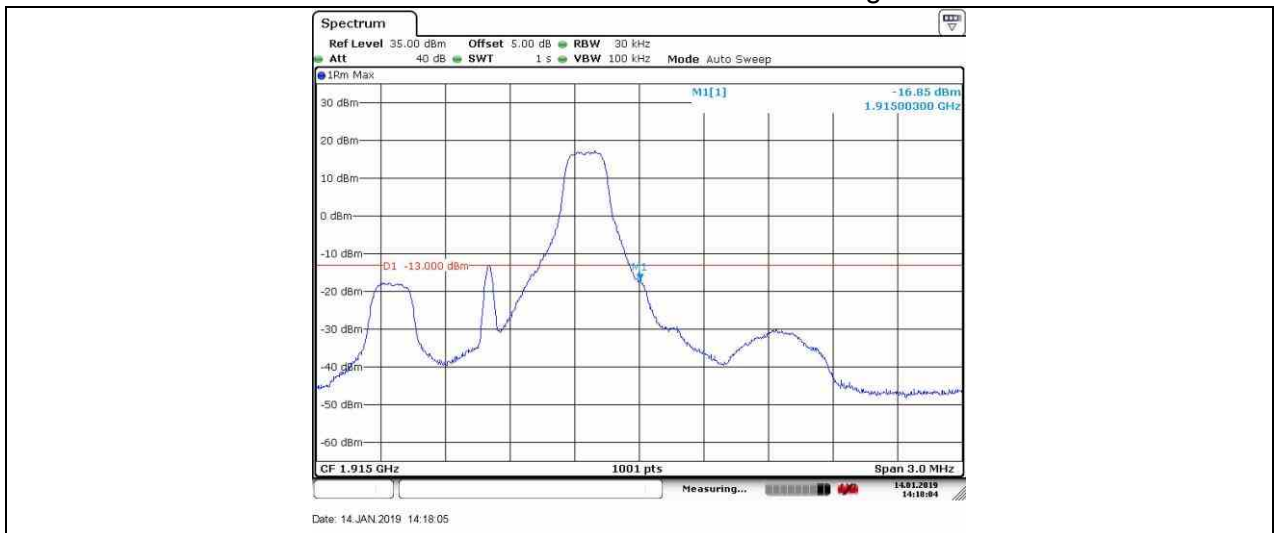
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5 Band Edges Compliance

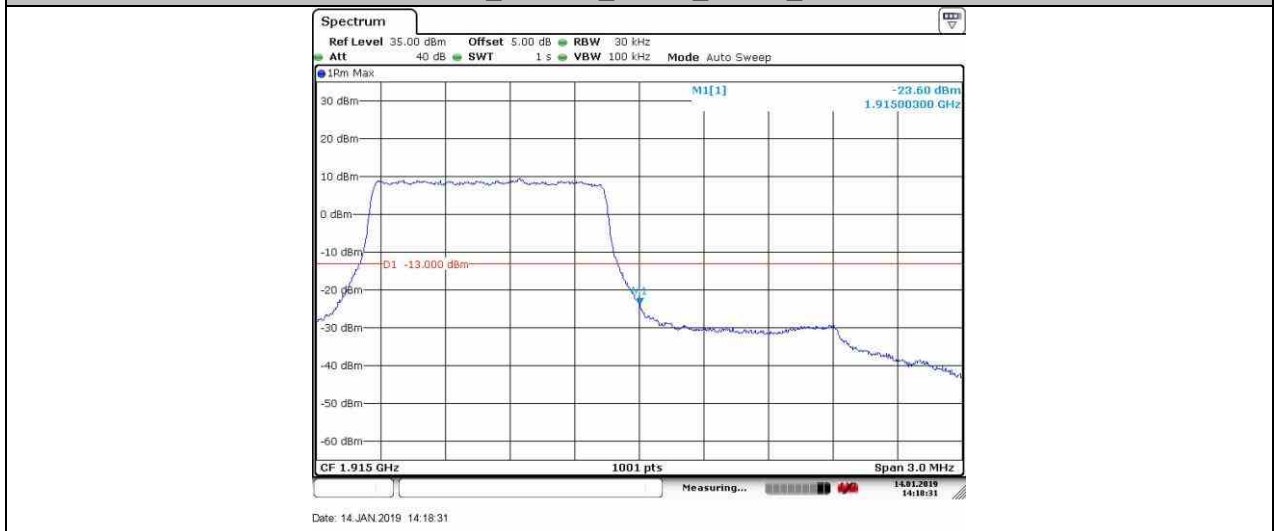
5.1. Test Plots



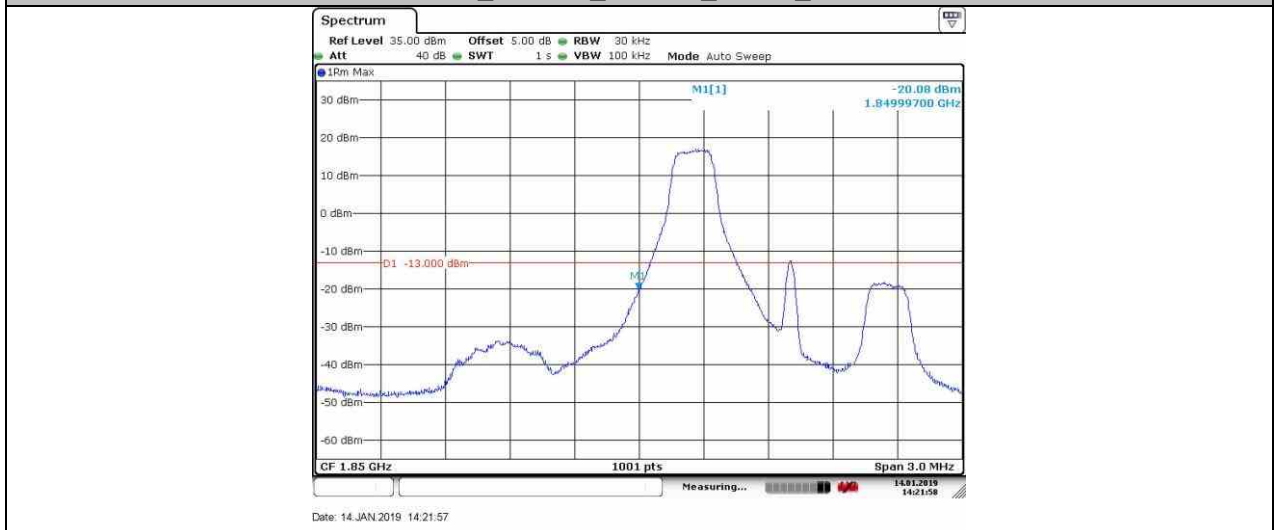
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Band25_1.4MHz_QPSK_26683_6RB#0

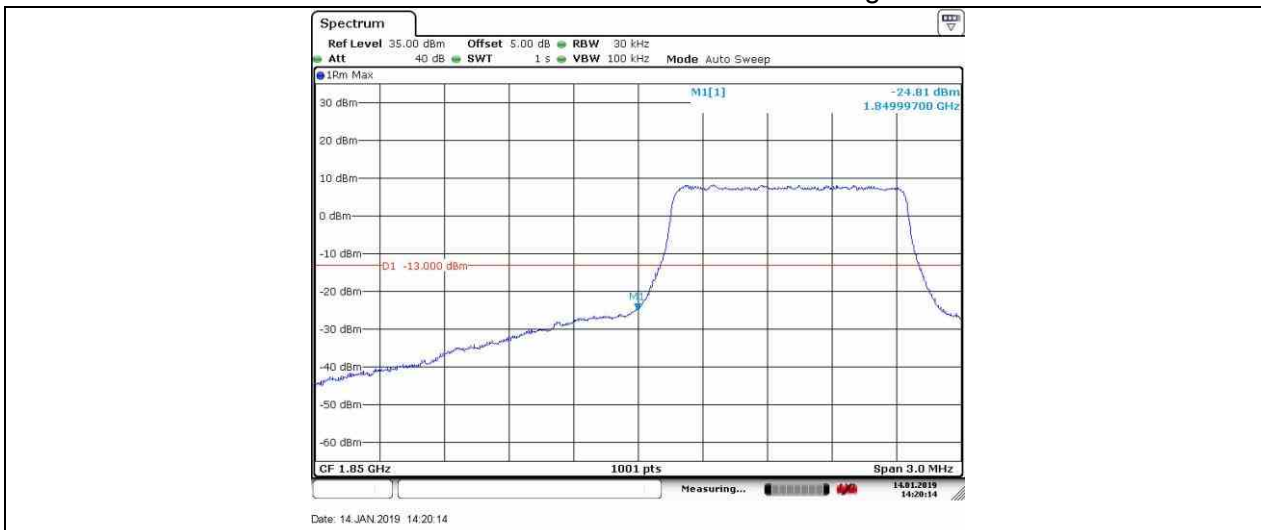


Band25_1.4MHz_16QAM_26047_1RB#0

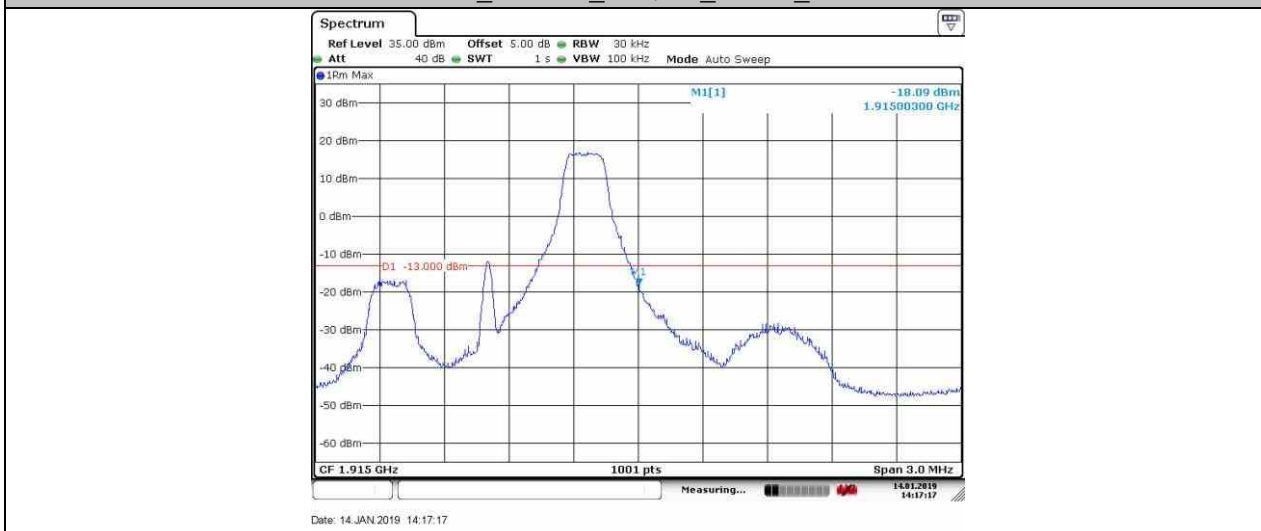


Band25_1.4MHz_16QAM_26047_6RB#0

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Band25_1.4MHz_16QAM_26683_1RB#5

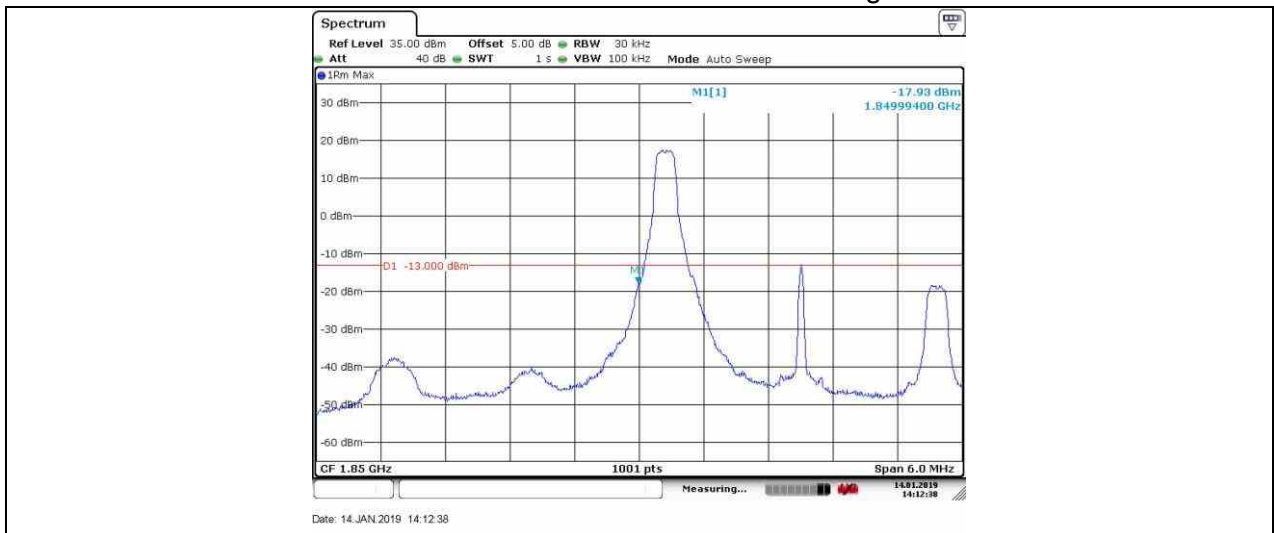


Band25_1.4MHz_16QAM_26683_6RB#0

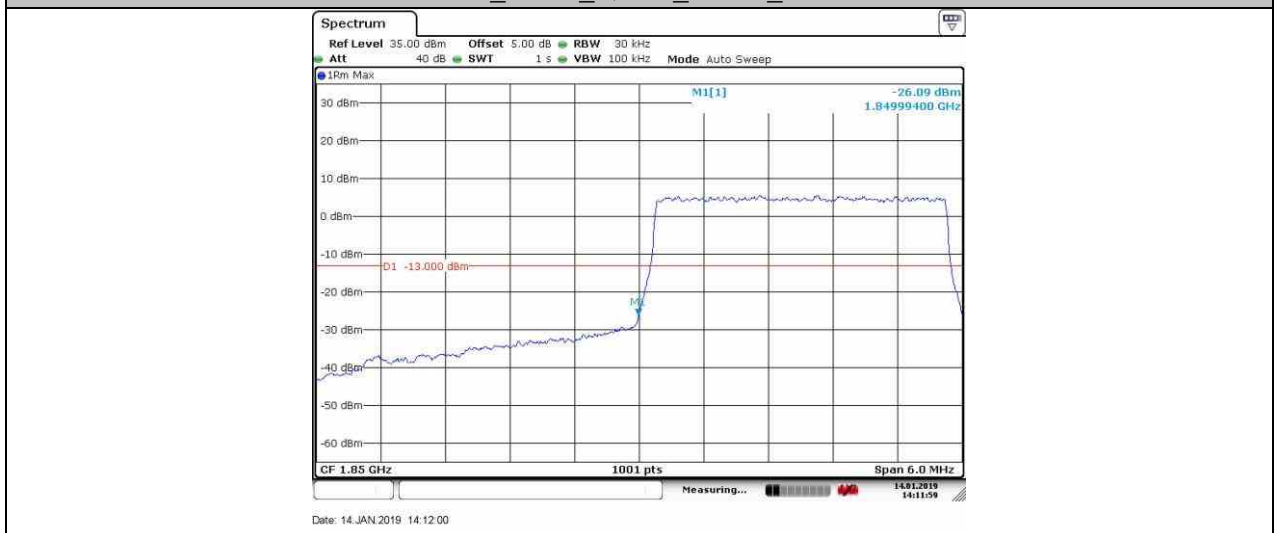


Band25_3MHz_QPSK_26055_1RB#0

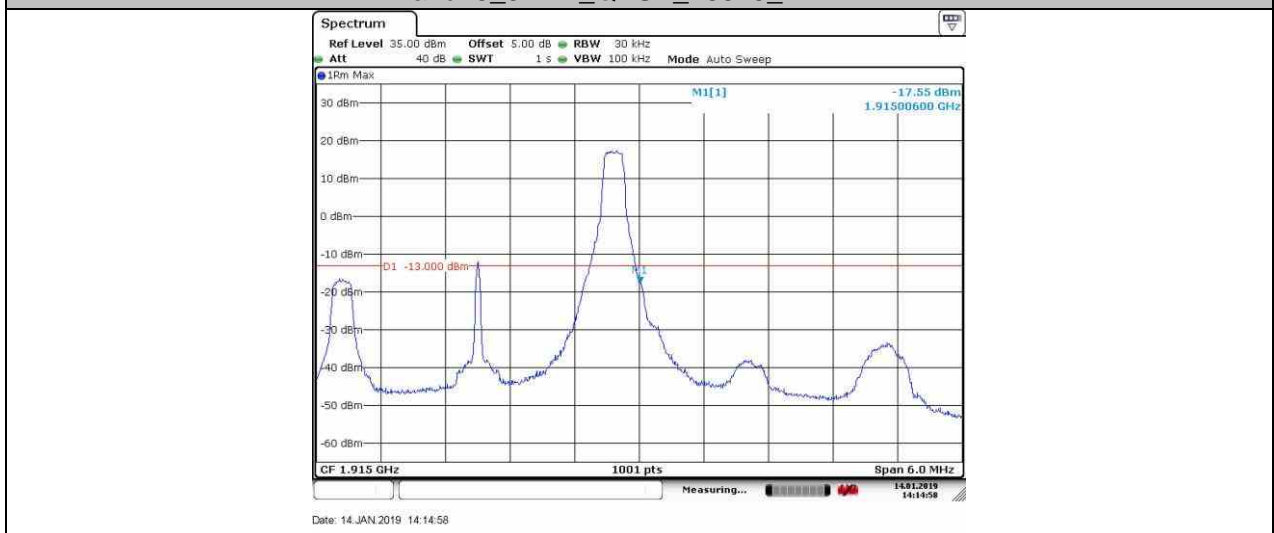
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Band25_3MHz_QPSK_26055_15RB#0

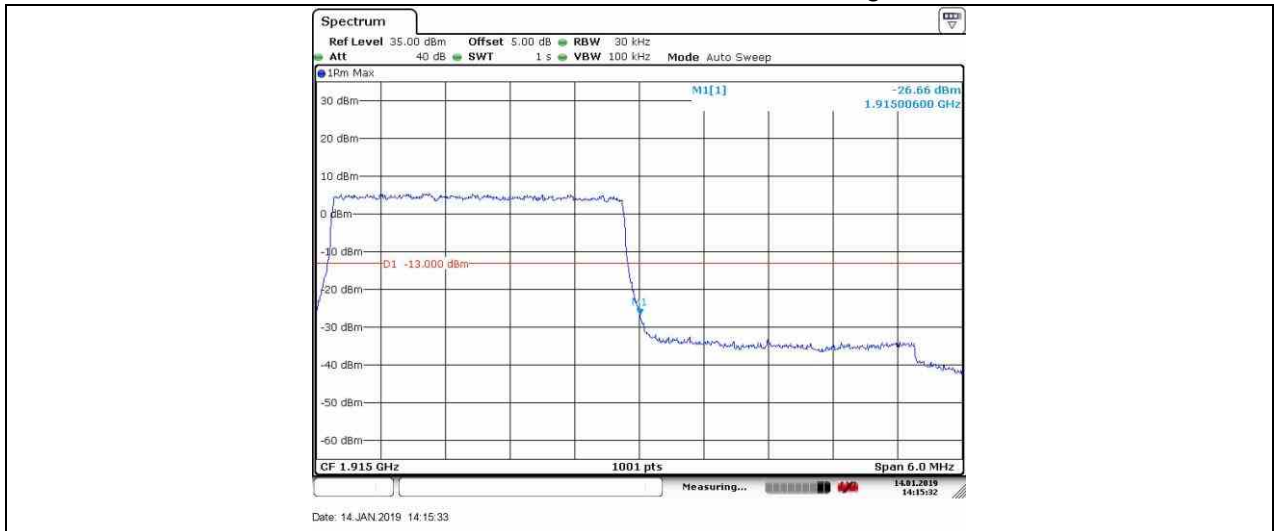


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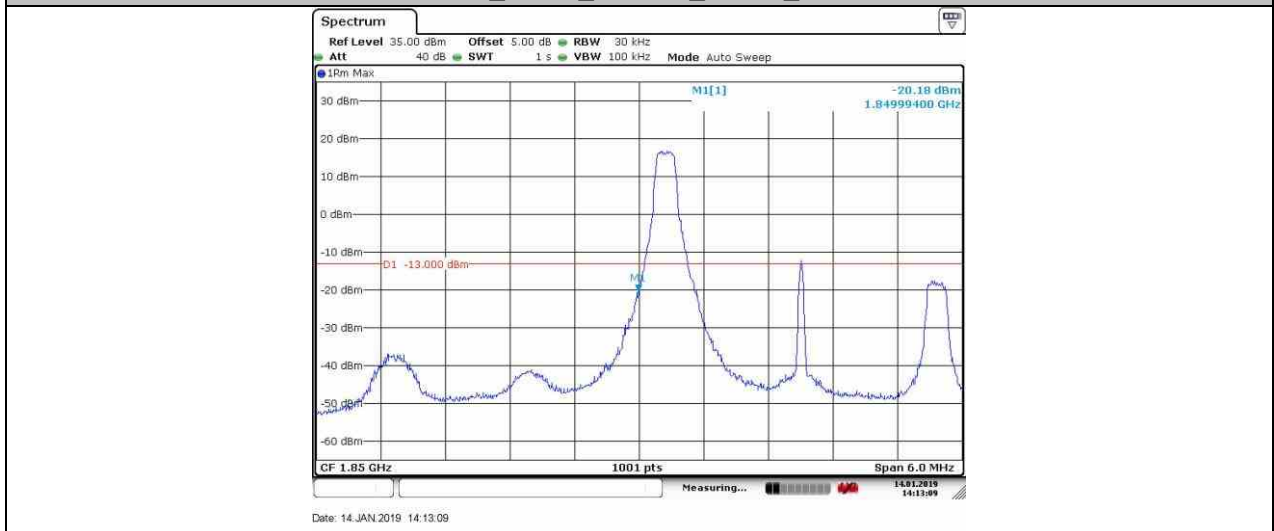


Band25_3MHz_QPSK_26675_15RB#0

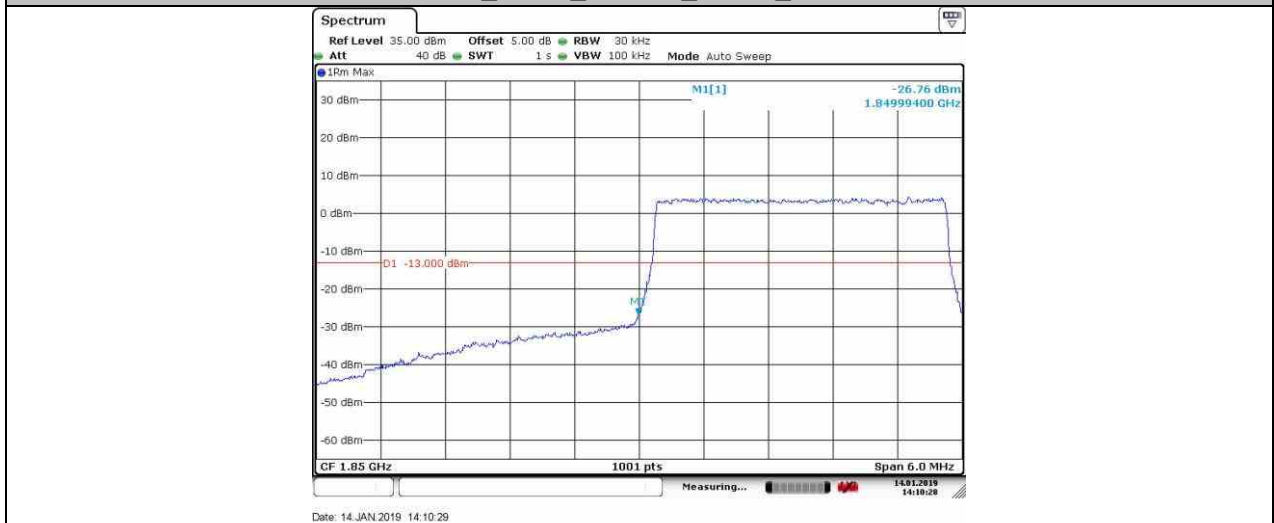
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Band25_3MHz_16QAM_26055_1RB#0

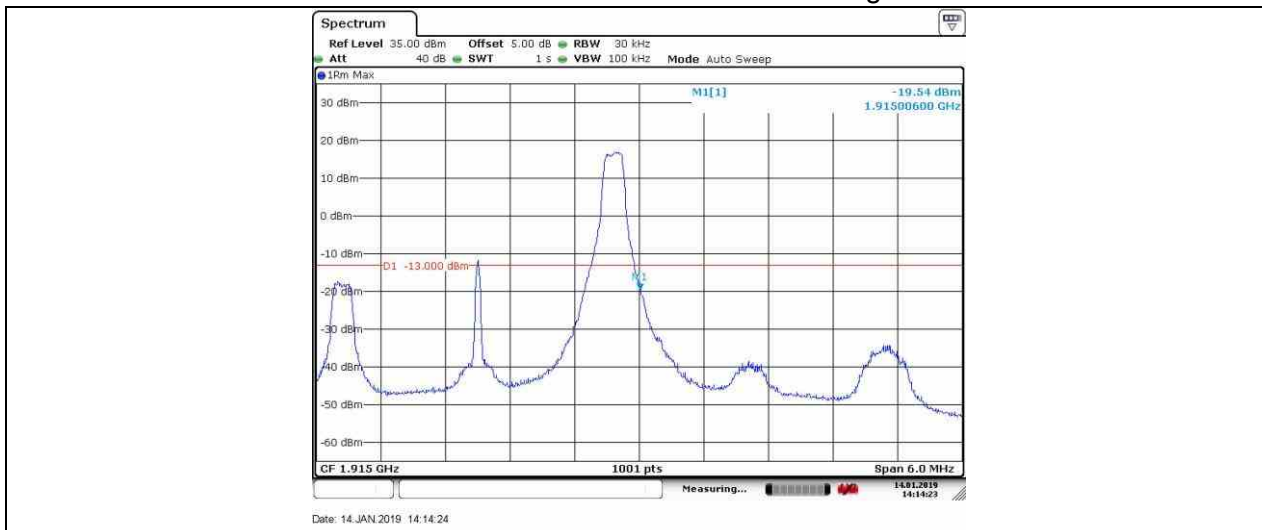


Band25_3MHz_16QAM_26055_15RB#0

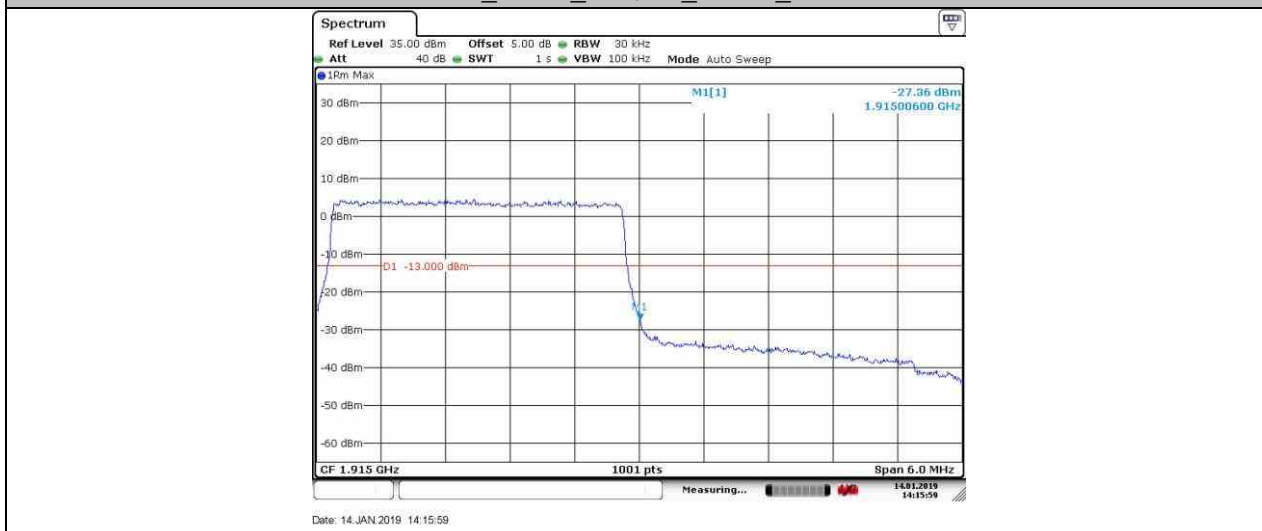


Band25_3MHz_16QAM_26675_1RB#14

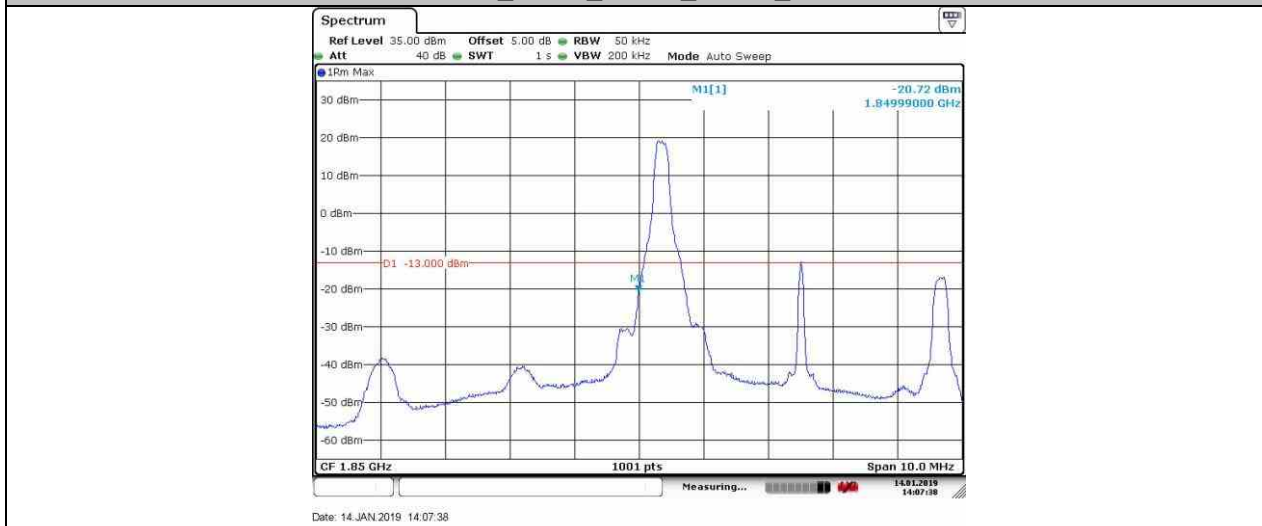
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Band25_3MHz_16QAM_26675_15RB#0

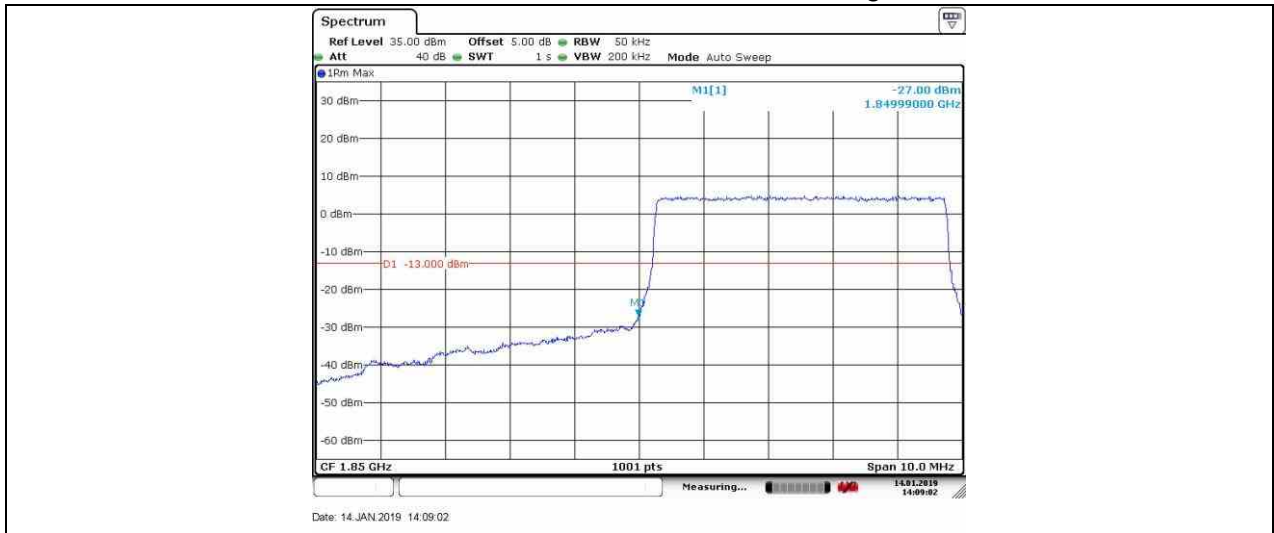


Band25_5MHz_QPSK_26065_1RB#0

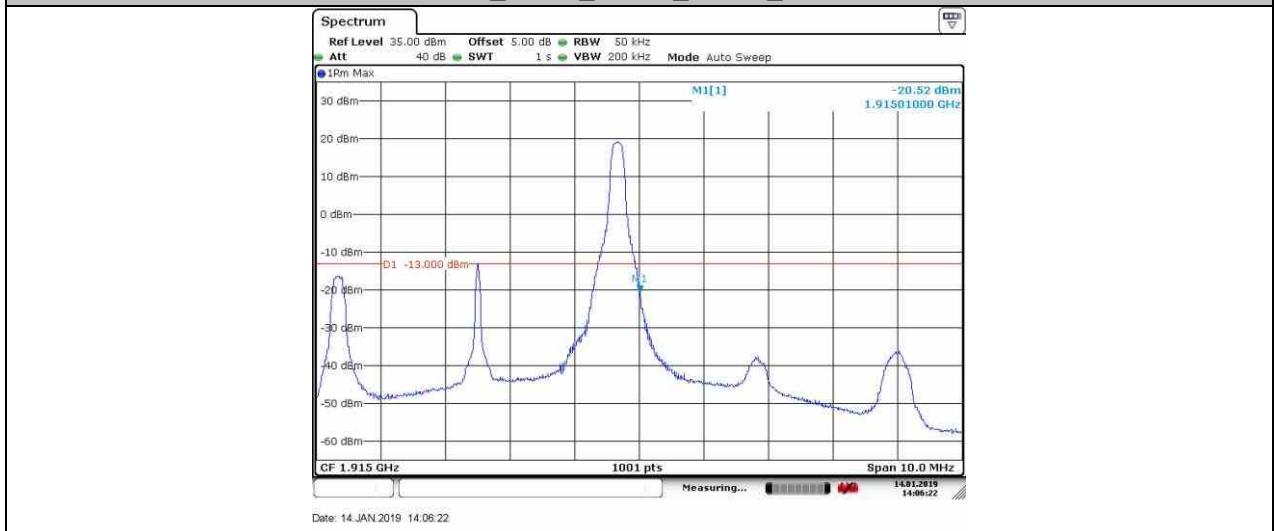


Band25_5MHz_QPSK_26065_25RB#0

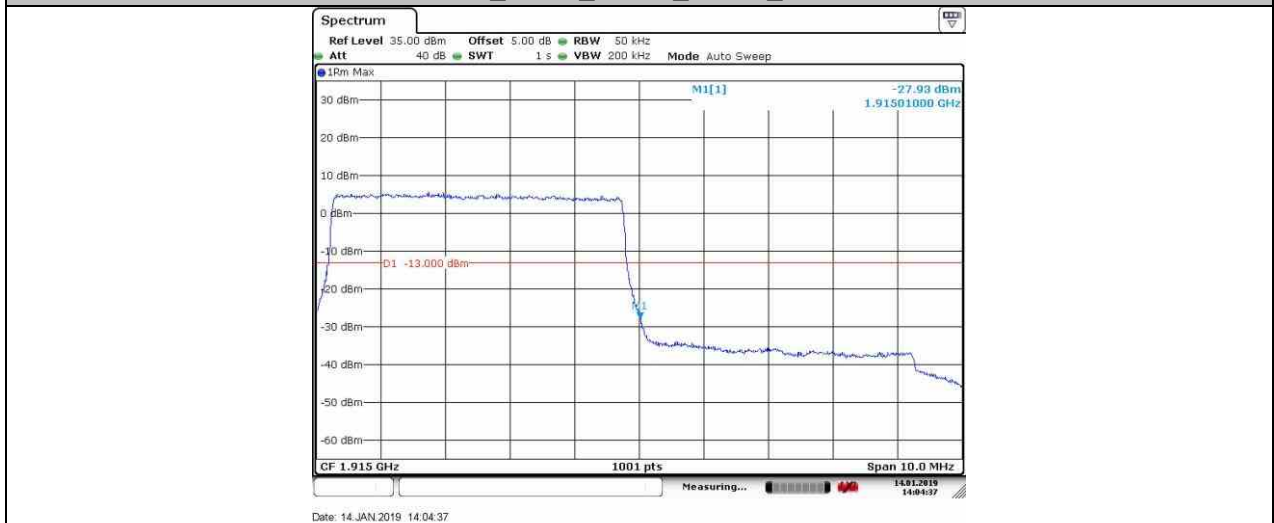
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Band25_5MHz_QPSK_26665_1RB#24

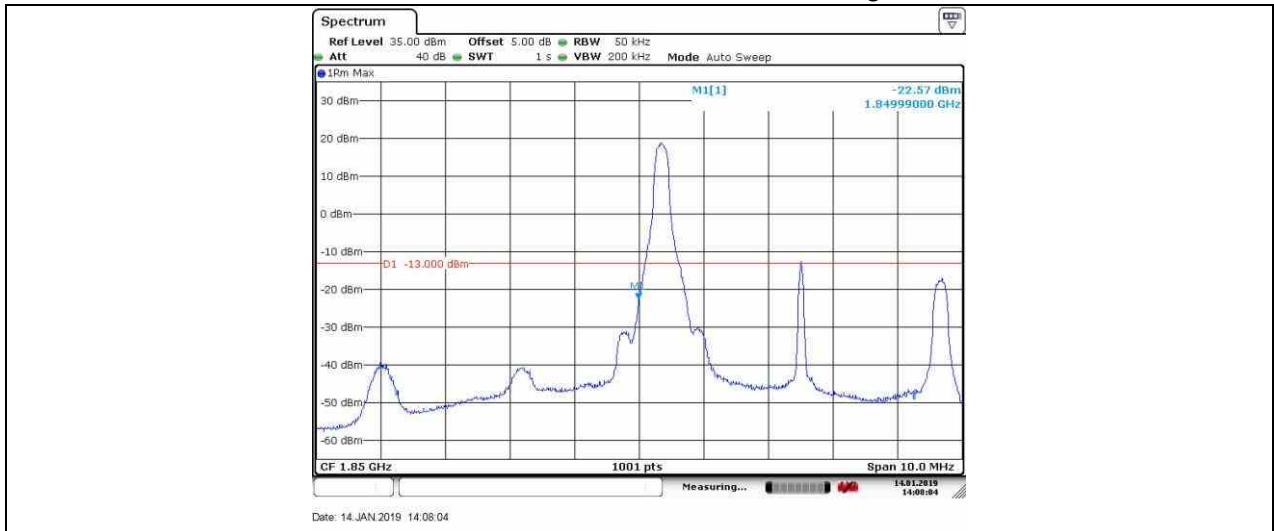


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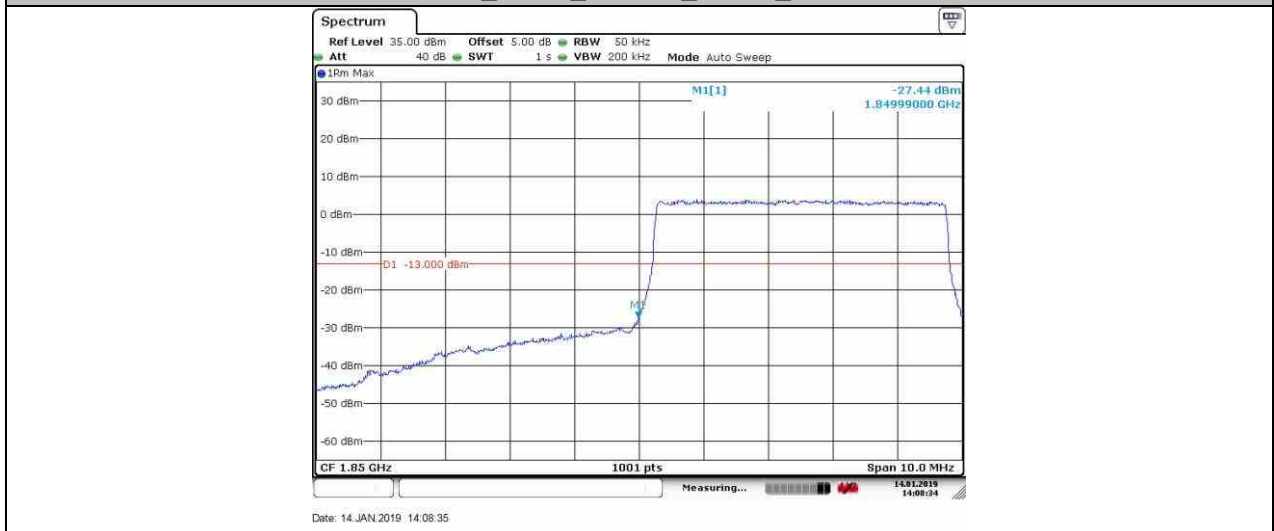


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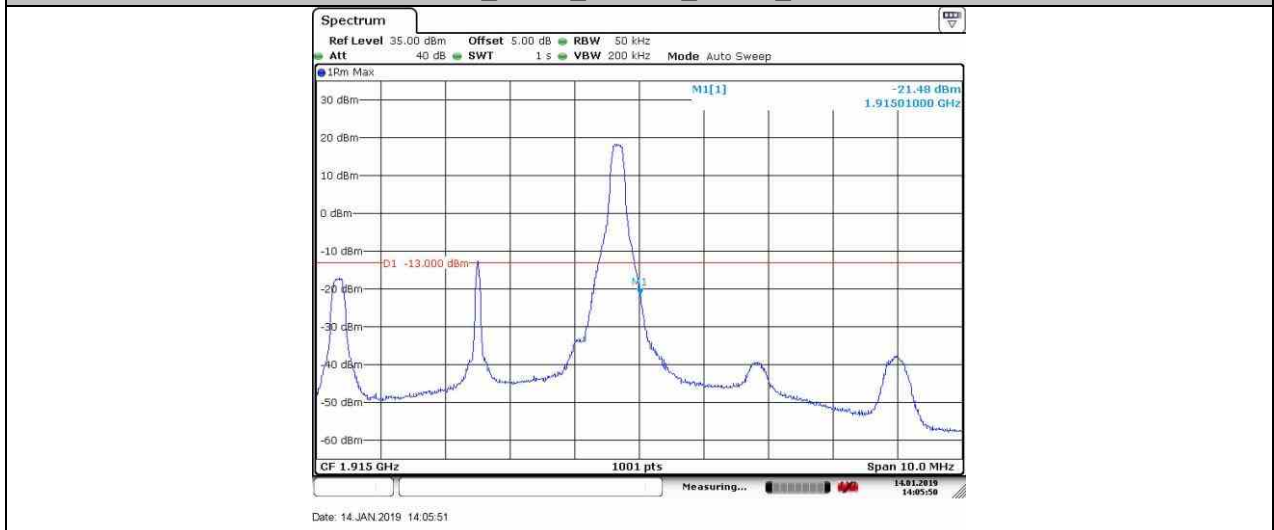
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Band25_5MHz_16QAM_26065_25RB#0

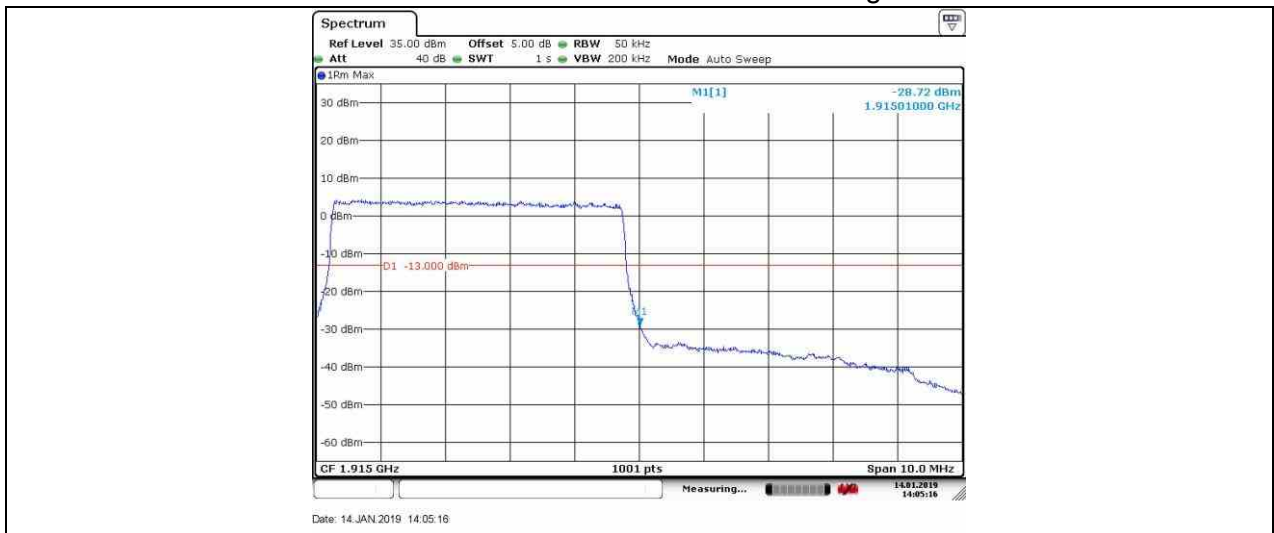


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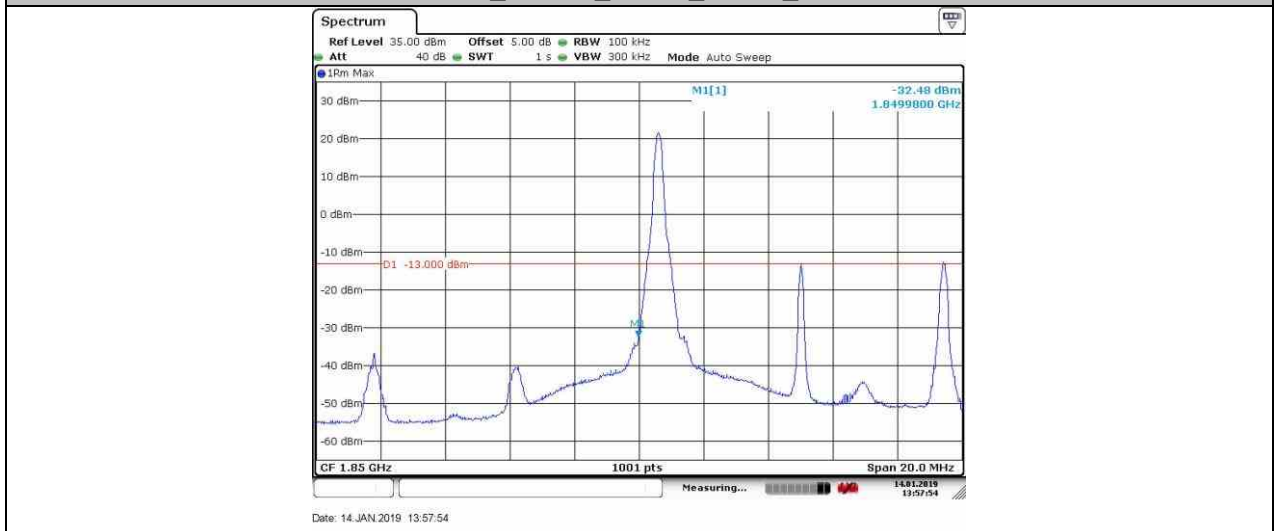


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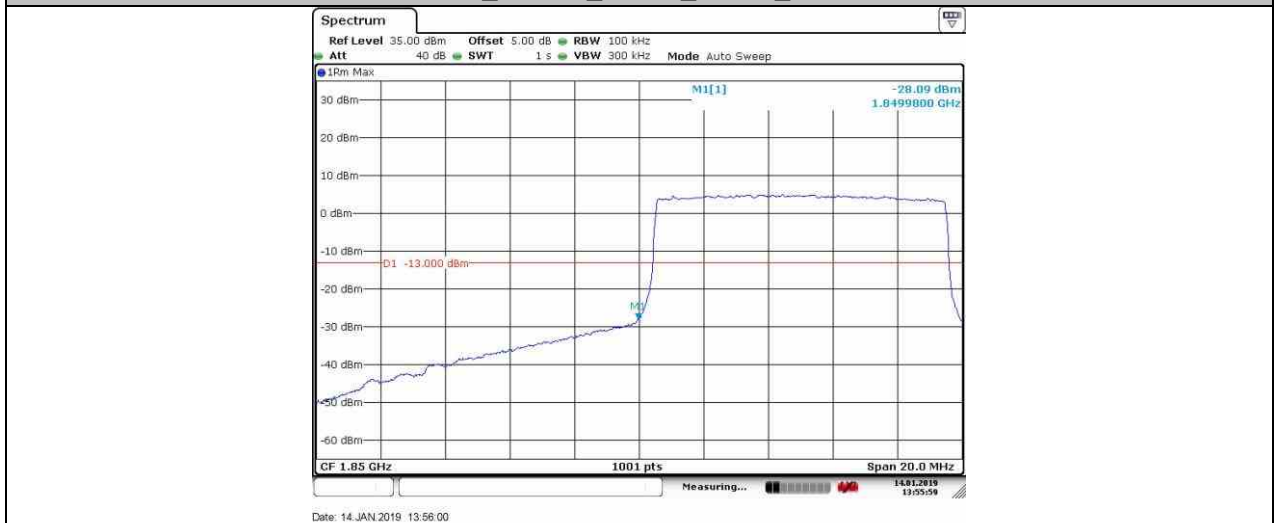
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Band25_10MHz_QPSK_26090_1RB#0

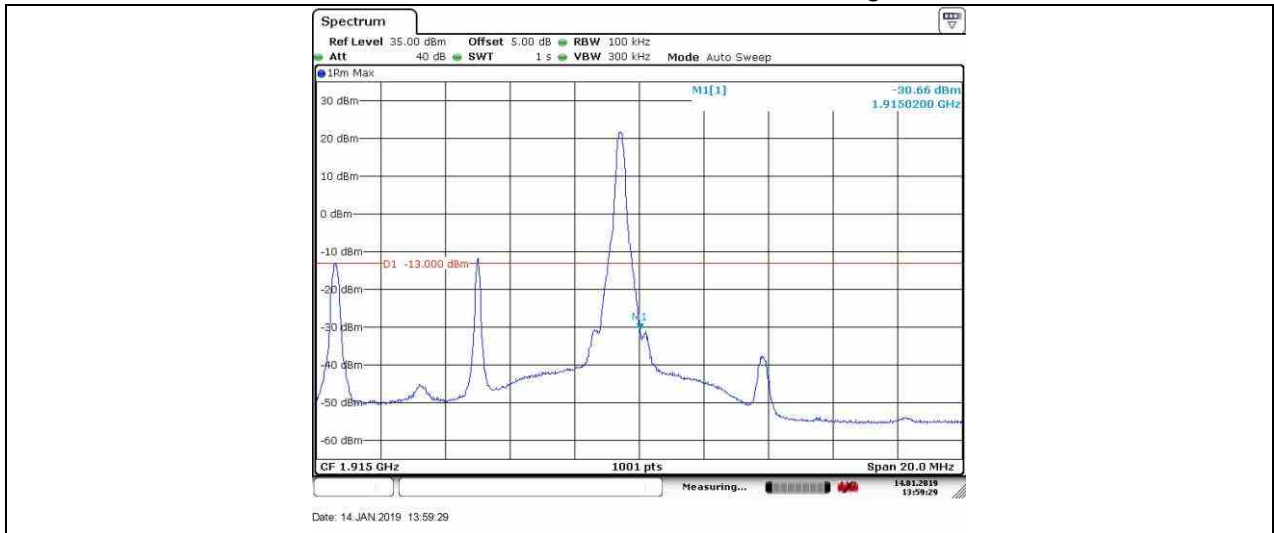


Band25_10MHz_QPSK_26090_50RB#0

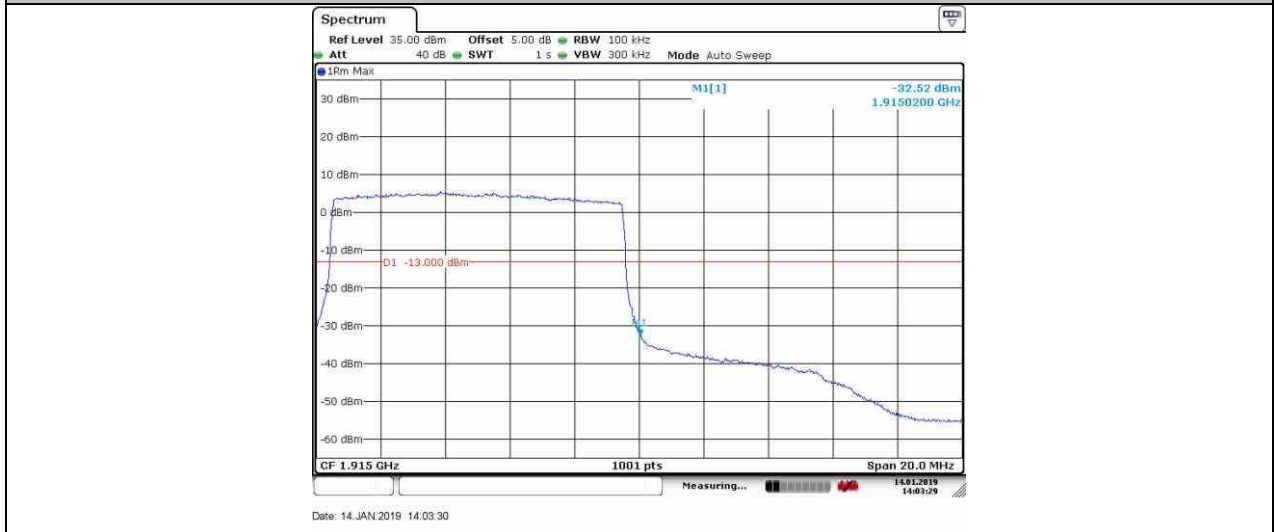


Band25_10MHz_QPSK_26640_1RB#49

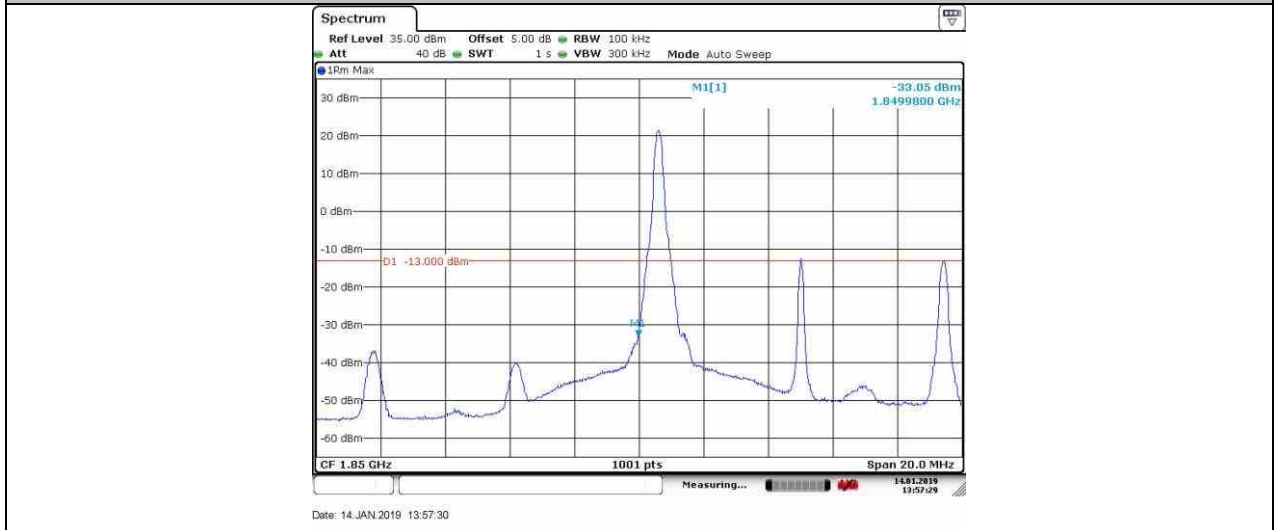
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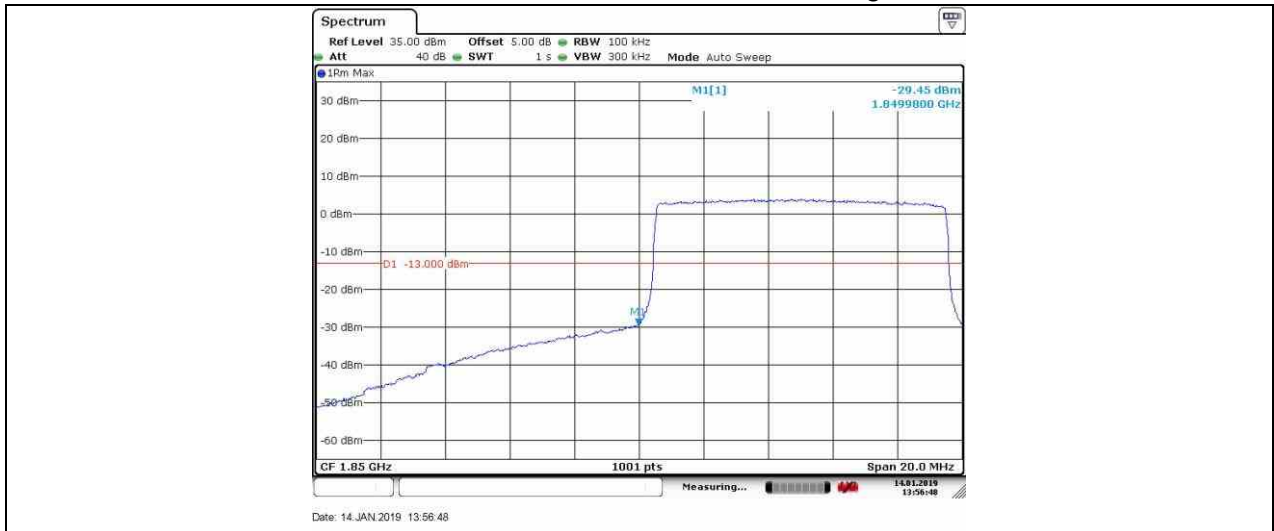
Band25_10MHz_QPSK_26640_50RB#0



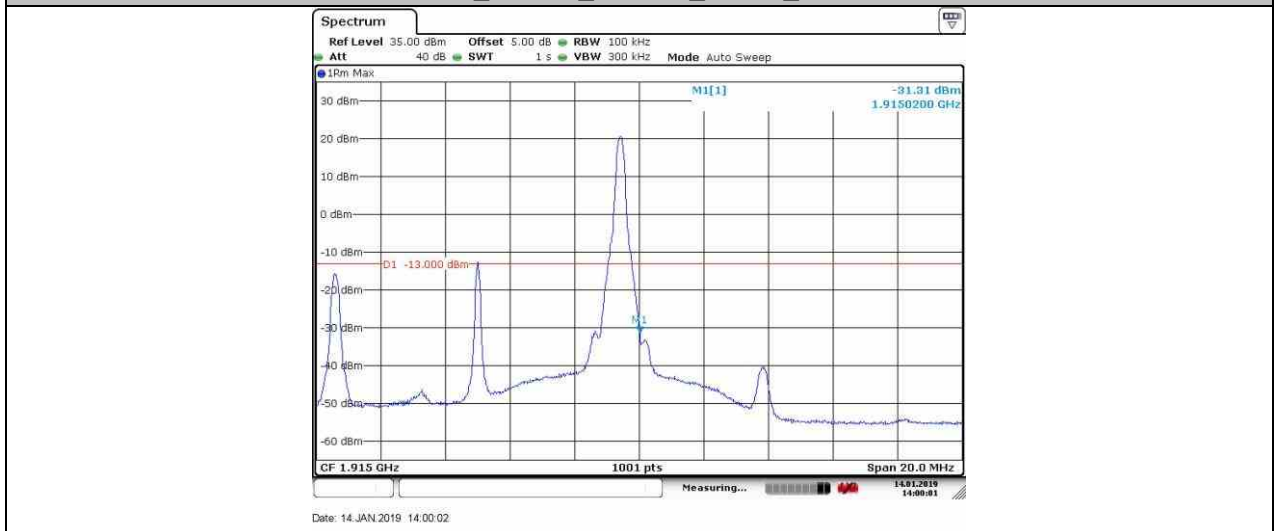
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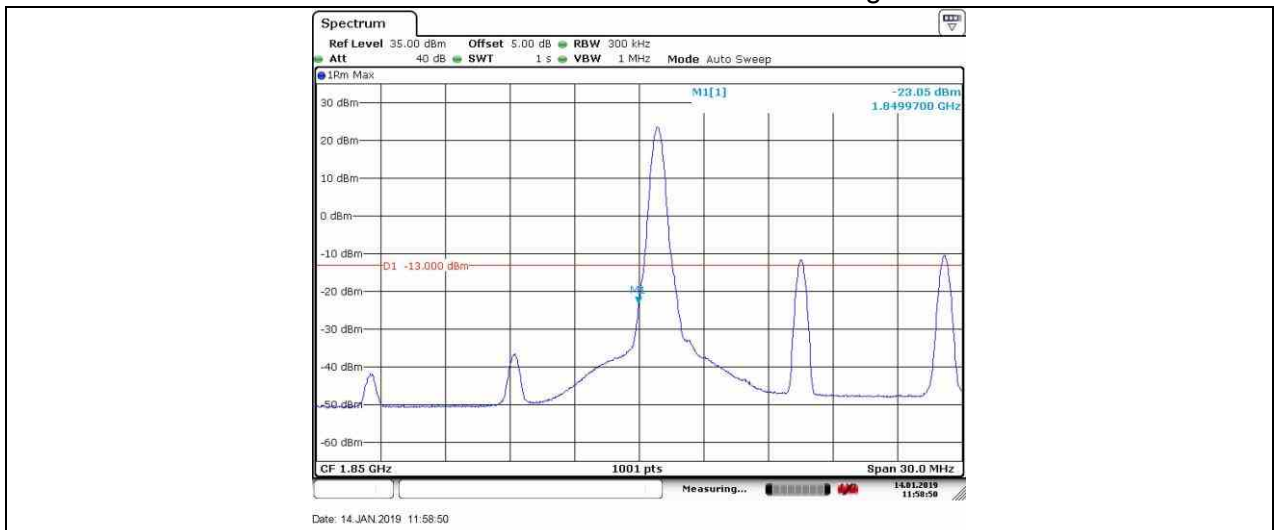


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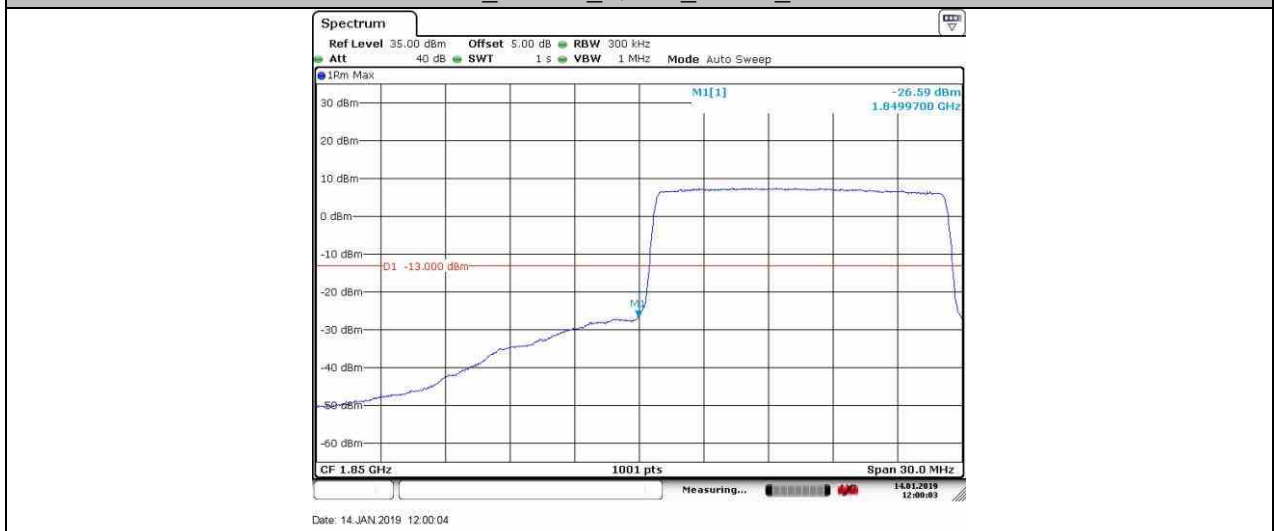


Band25_15MHz_QPSK_26115_1RB#0

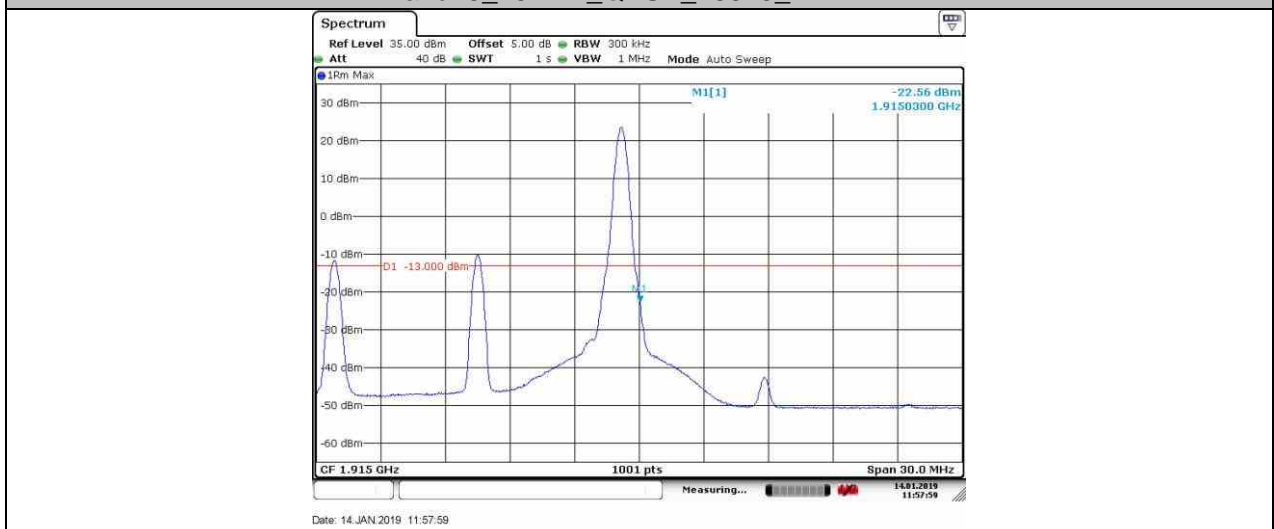
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Band25_15MHz_QPSK_26115_75RB#0



Band25_15MHz_QPSK_26615_1RB#74

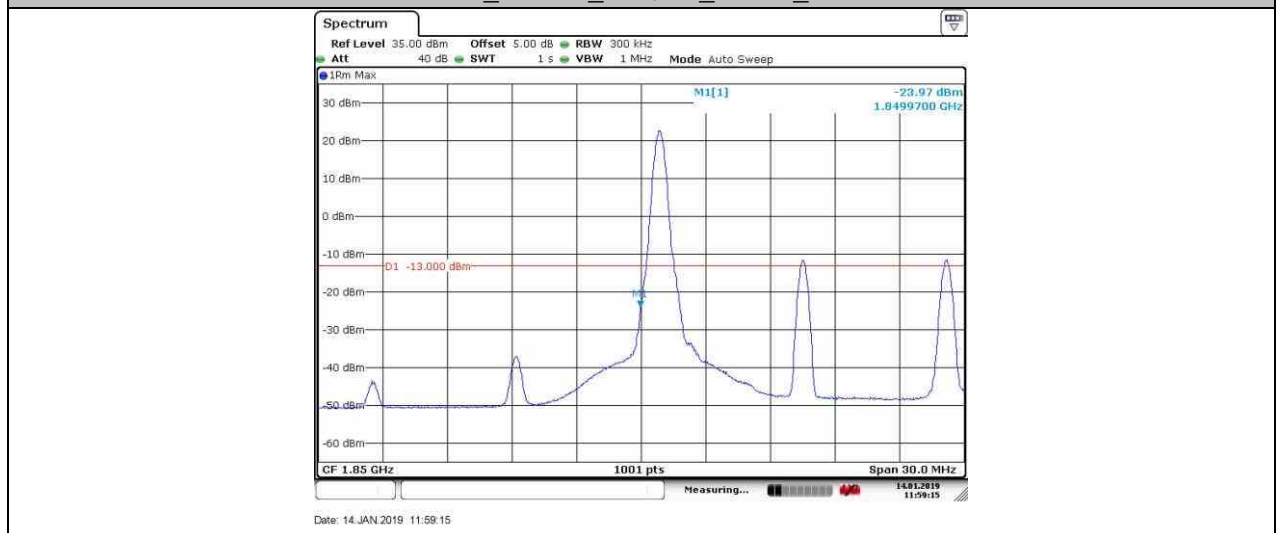


Band25_15MHz_QPSK_26615_75RB#0

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Band25_15MHz_16QAM_26115_1RB#0

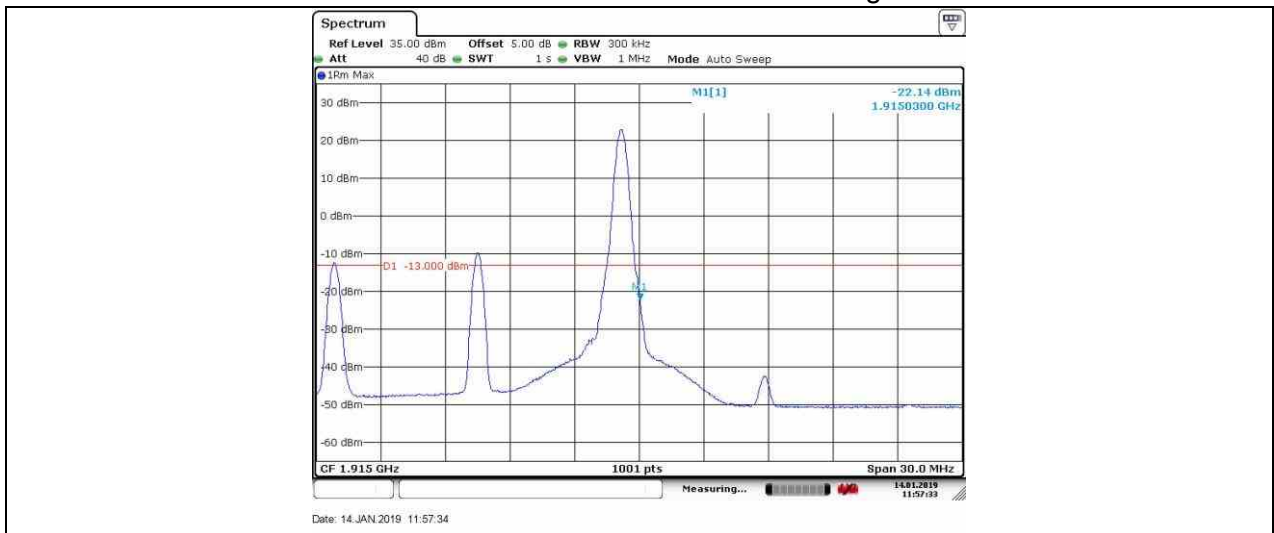


Band25_15MHz_16QAM_26115_75RB#0



Band25_15MHz_16QAM_26615_1RB#74

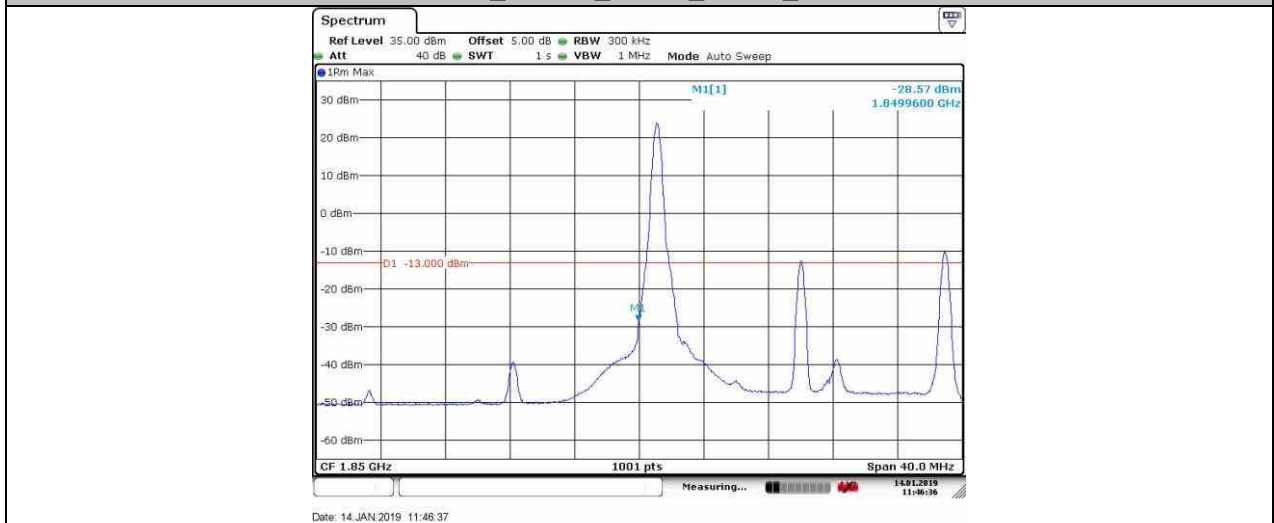
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Band25_15MHz_16QAM_26615_75RB#0

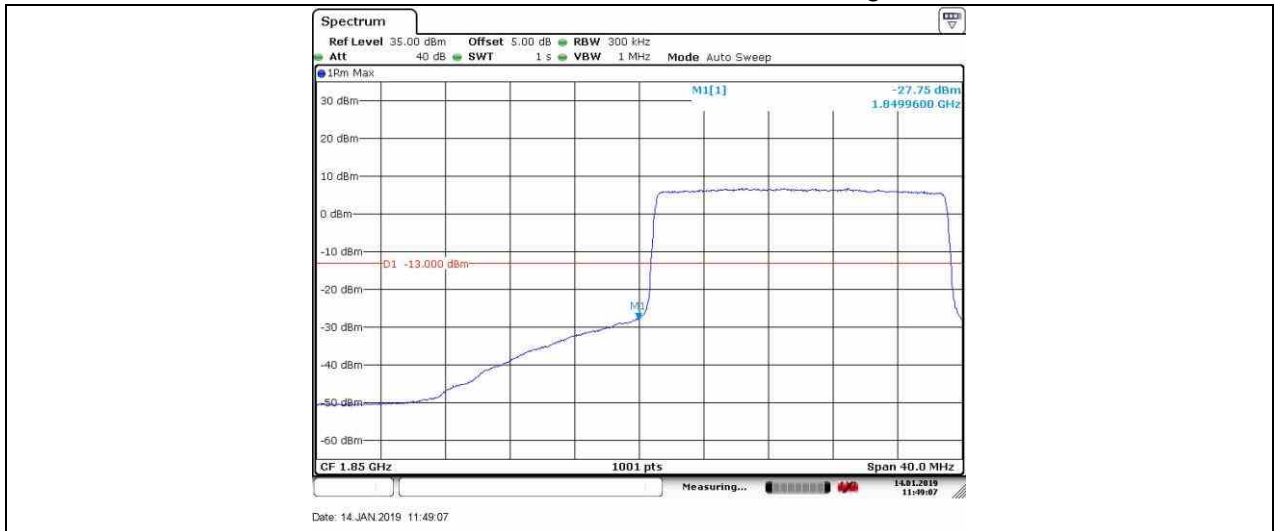


Band25_20MHz_QPSK_26140_1RB#0

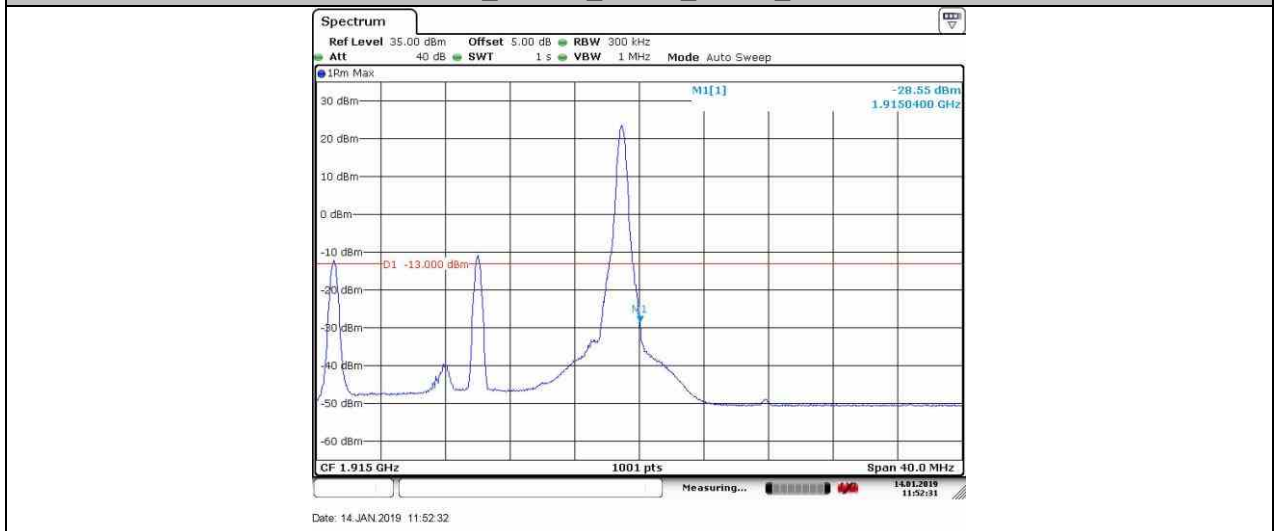


Band25_20MHz_QPSK_26140_100RB#0

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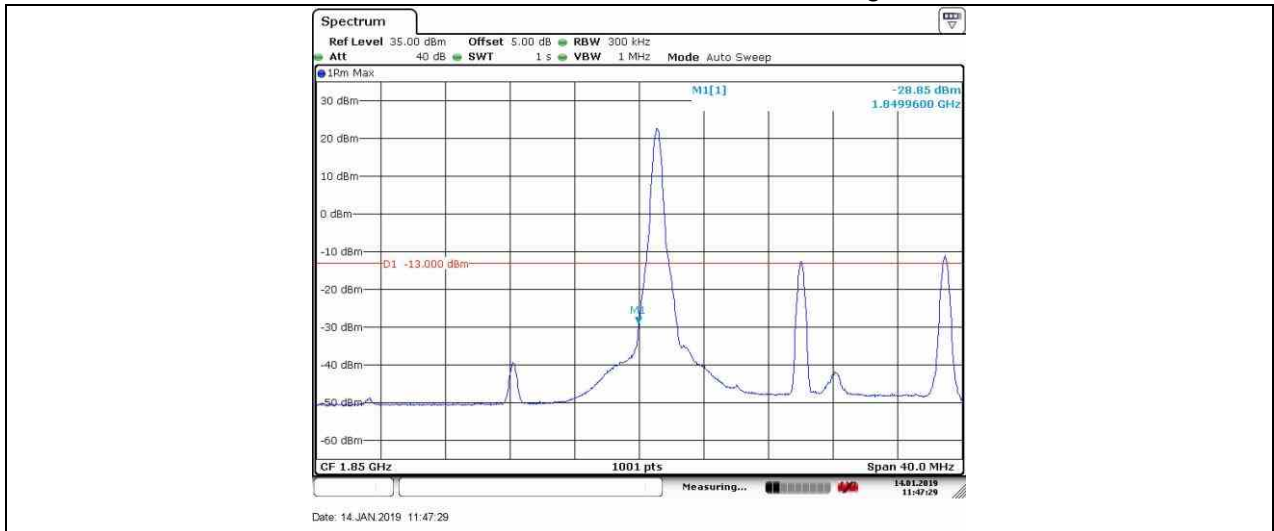
Band25_20MHz_QPSK_26590_1RB#99



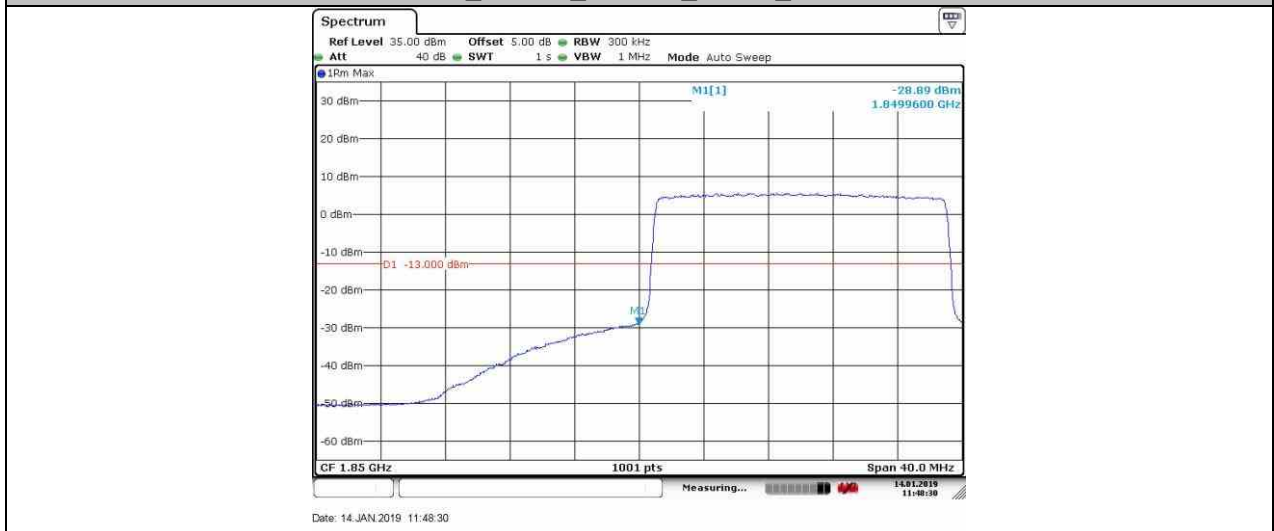
Band25_20MHz_QPSK_26590_100RB#0



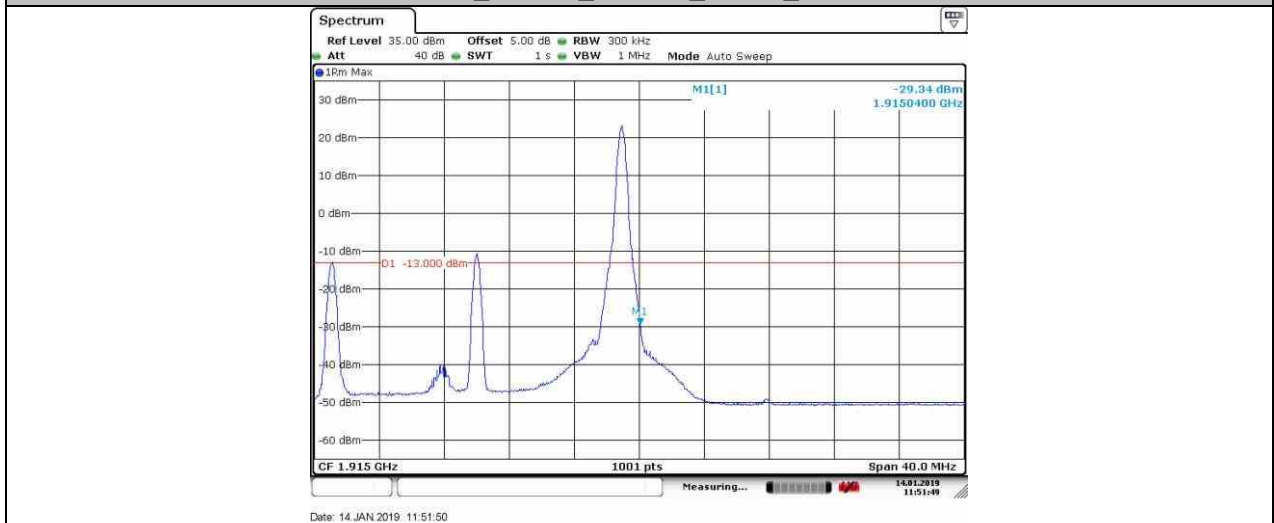
Band25_20MHz_16QAM_26140_1RB#0



Band25_20MHz_16QAM_26140_100RB#0



Band25_20MHz_16QAM_26590_1RB#99



Band25_20MHz_16QAM_26590_100RB#0

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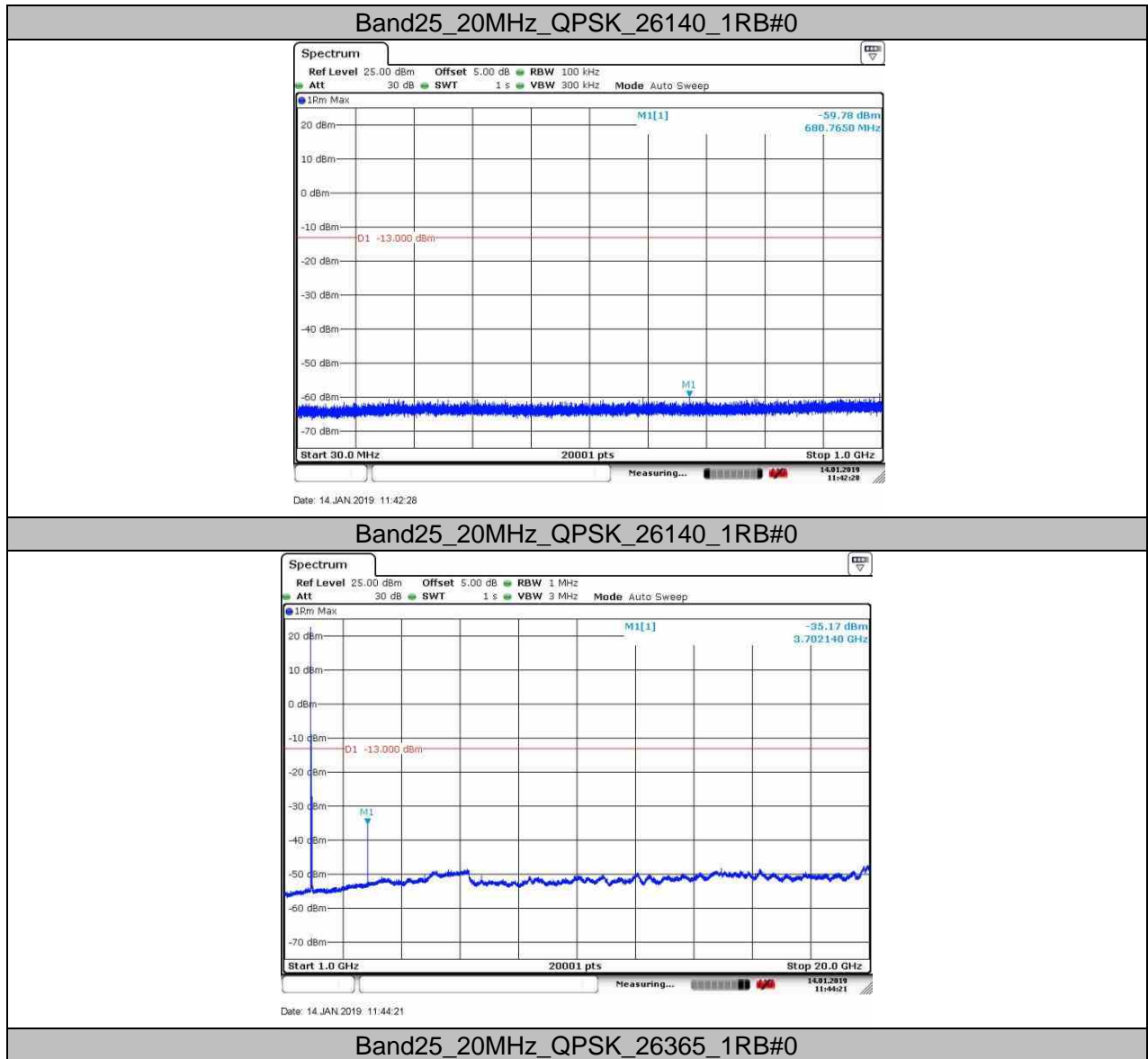


6 Spurious Emission at Antenna Terminal

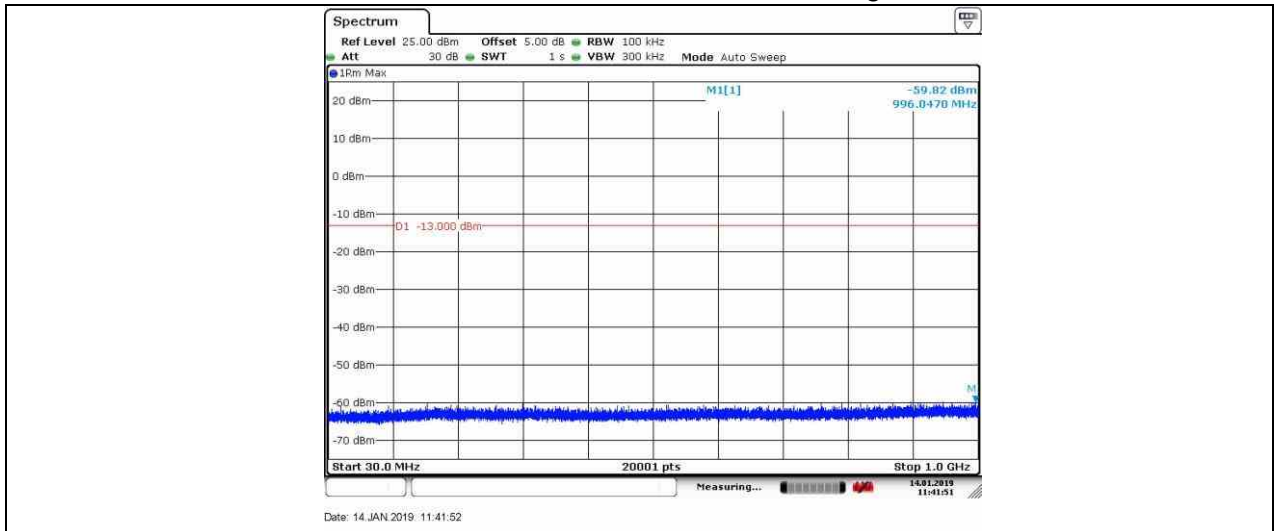
NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

NOTE2: only the worst case data displayed in this report.

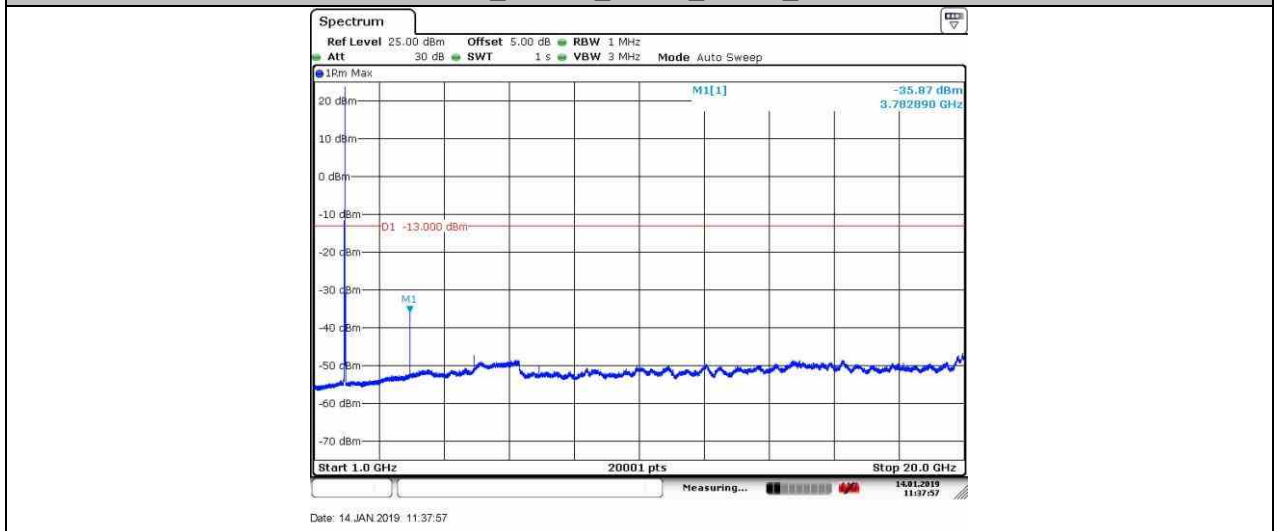
6.1. Test Plots



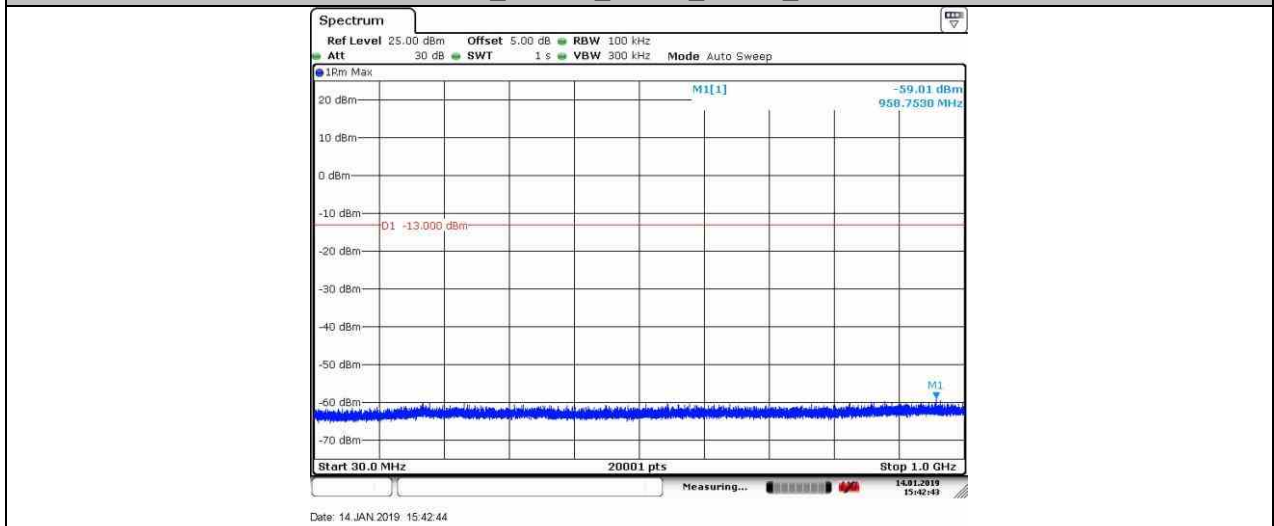
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Band25_20MHz_QPSK_26365_1RB#0

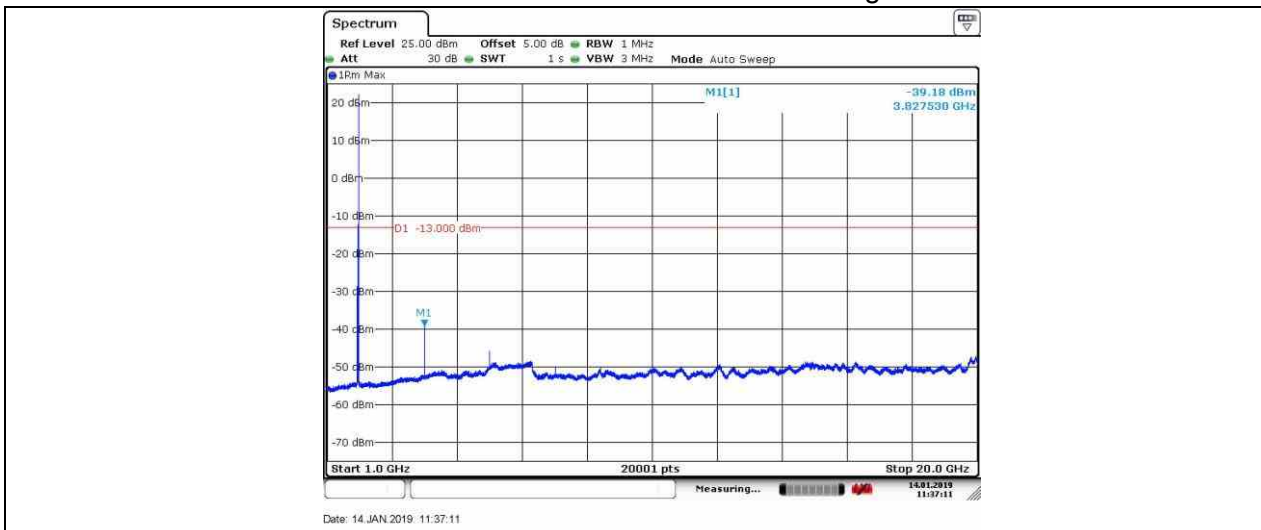


Band25_20MHz_QPSK_26590_1RB#0

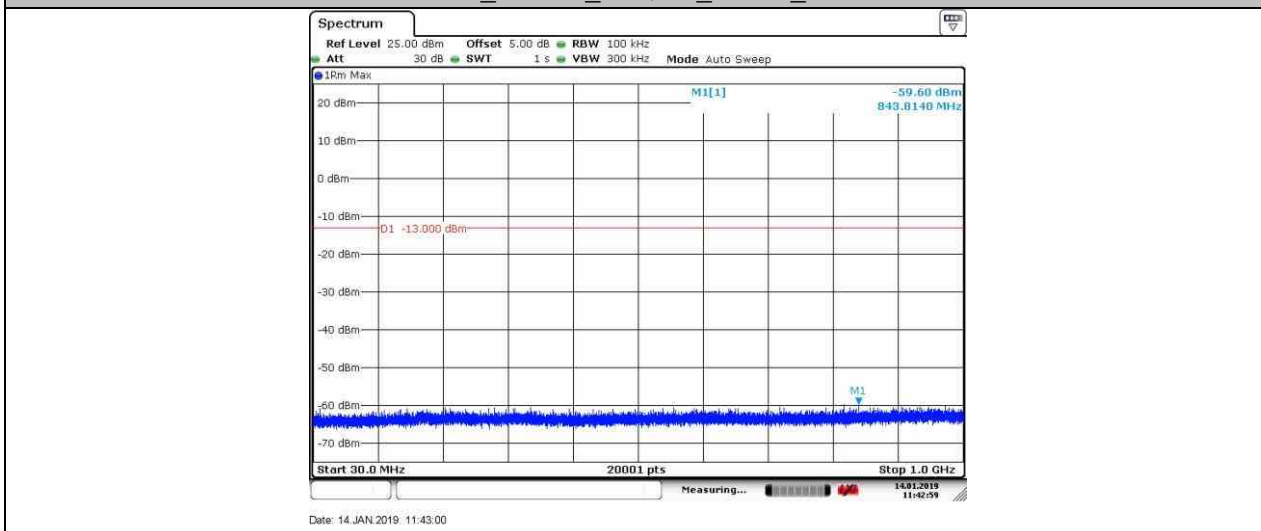


Band25_20MHz_QPSK_26590_1RB#0

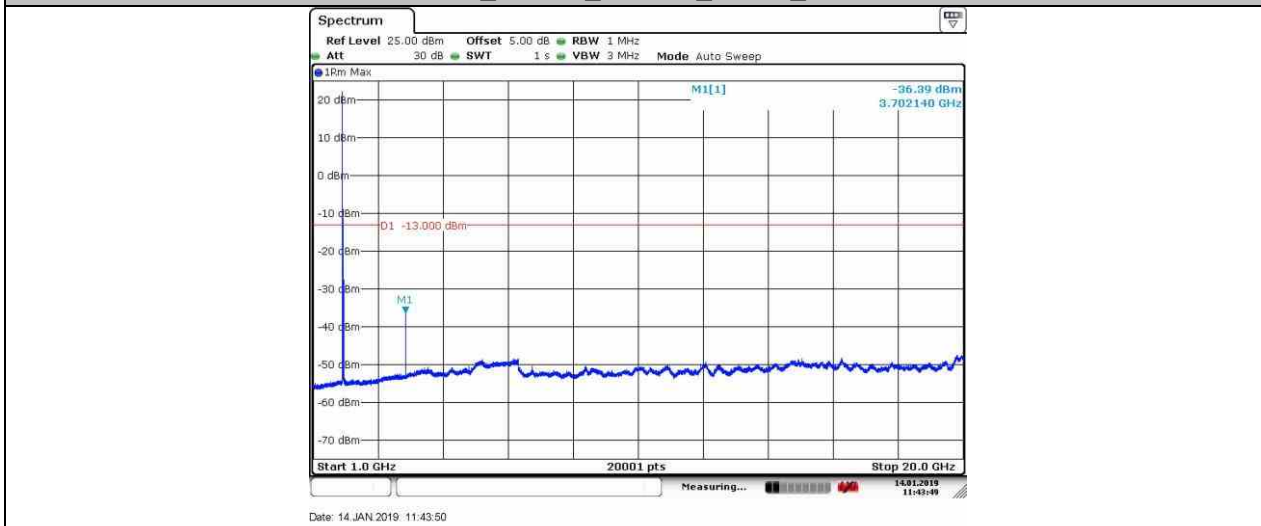
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Band25_20MHz_16QAM_26140_1RB#0

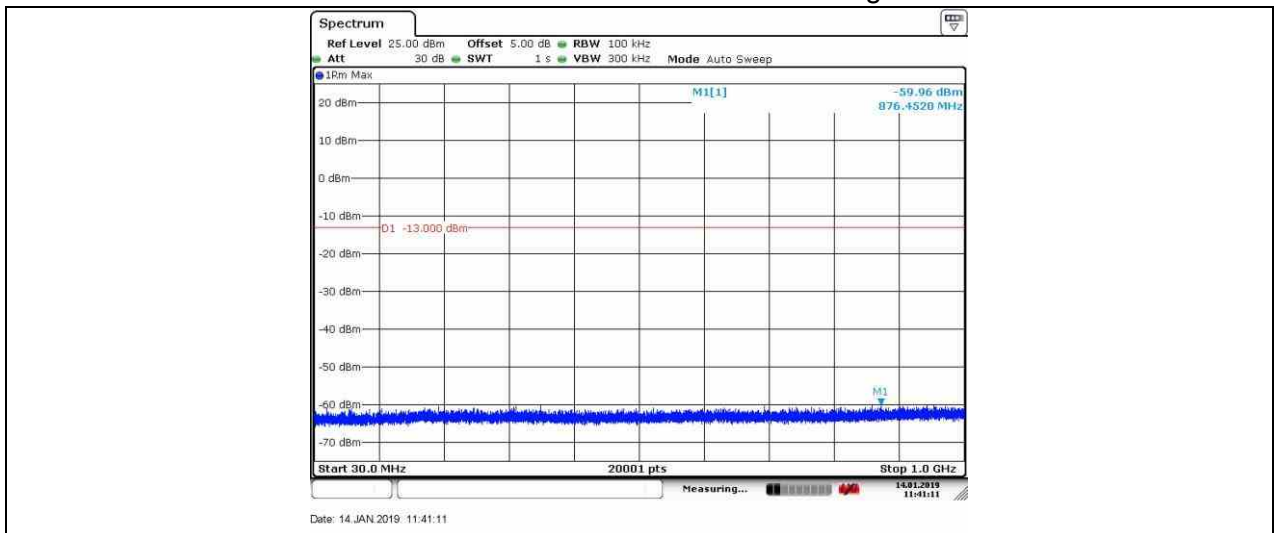


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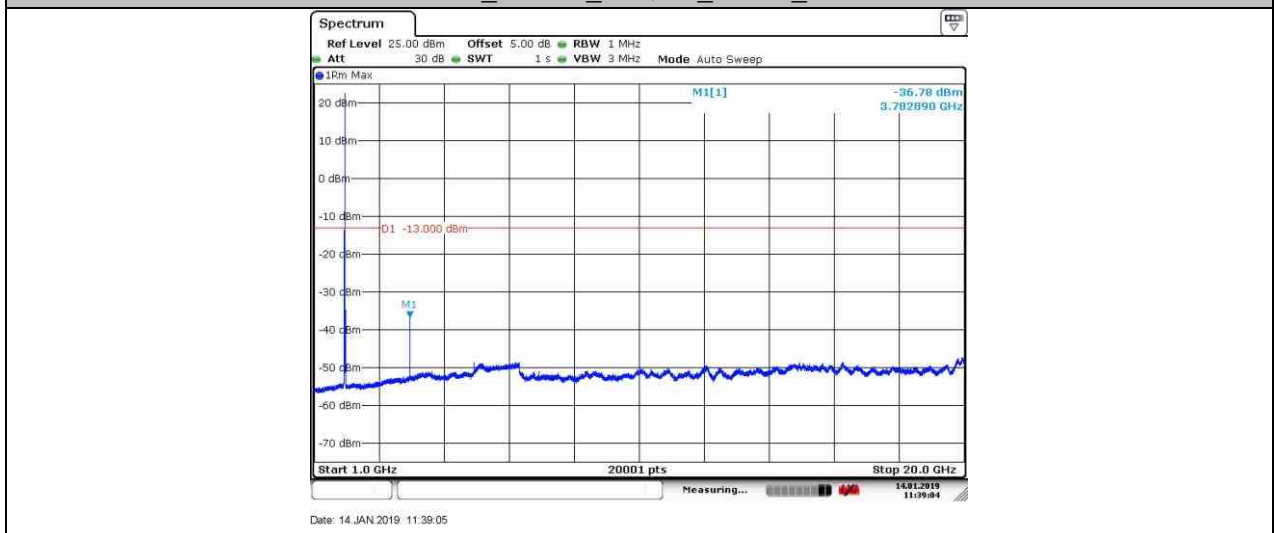


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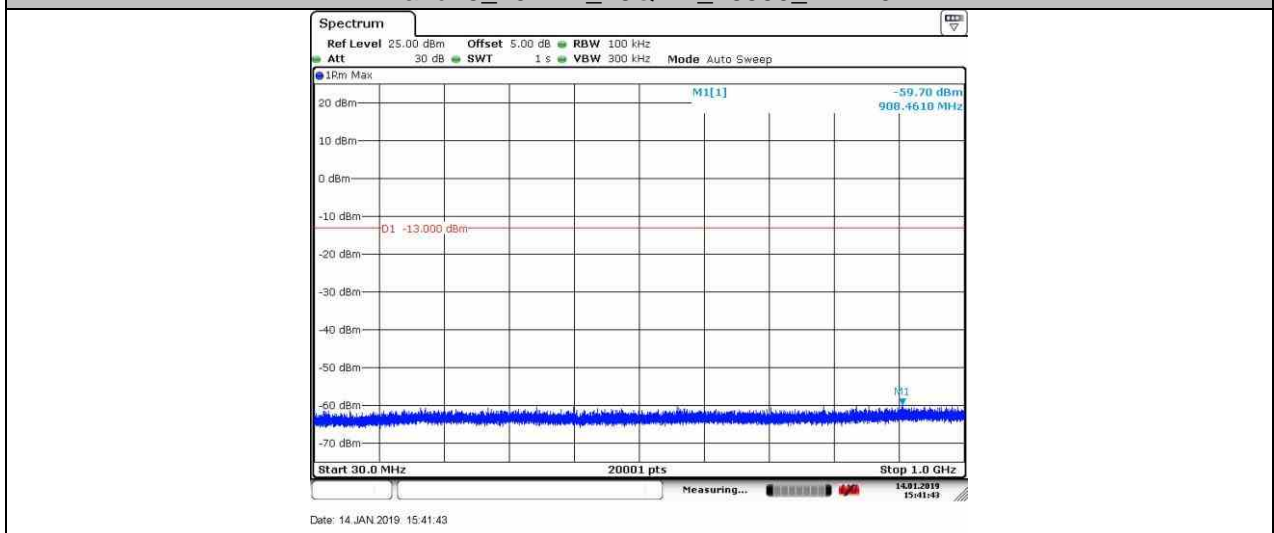
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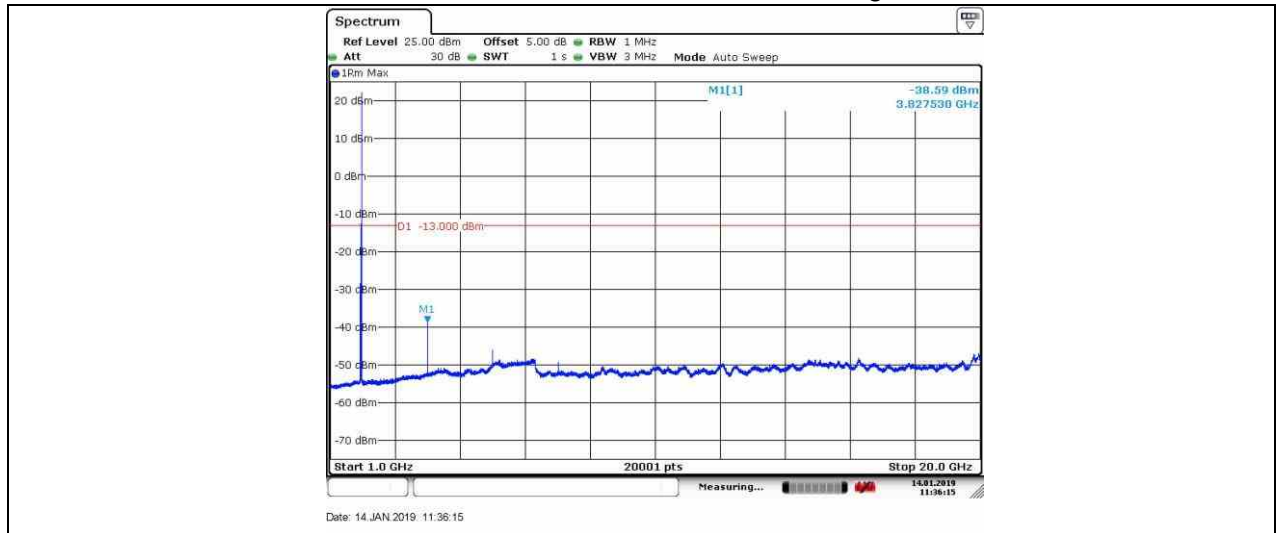


Band25_20MHz_16QAM_26590_1RB#0



Band25_20MHz_16QAM_26590_1RB#0

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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test BAND = LTE Band 25

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.500000	-80.05	-13.00	67.05	Vertical
353.250000	-85.96	-13.00	72.96	Vertical
3702.000000	-54.22	-13.00	41.22	Vertical
5553.200000	-57.63	-13.00	44.63	Vertical
7404.400000	-50.20	-13.00	37.20	Vertical
9255.600000	-44.77	-13.00	31.77	Vertical
62.550000	-77.19	-13.00	64.19	Horizontal
172.800000	-84.42	-13.00	71.42	Horizontal
3702.000000	-47.31	-13.00	34.31	Horizontal
5553.200000	-58.69	-13.00	45.69	Horizontal
7404.400000	-54.81	-13.00	41.81	Horizontal
9255.275000	-44.52	-13.00	31.52	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.600000	-80.87	-13.00	67.87	Vertical
172.800000	-86.58	-13.00	73.58	Vertical
3747.175000	-55.83	-13.00	42.83	Vertical
5620.800000	-59.59	-13.00	46.59	Vertical
7494.425000	-51.83	-13.00	38.83	Vertical
9368.050000	-46.66	-13.00	33.66	Vertical
63.100000	-76.99	-13.00	63.99	Horizontal
172.800000	-84.63	-13.00	71.63	Horizontal
3746.850000	-51.12	-13.00	38.12	Horizontal
5620.800000	-58.08	-13.00	45.08	Horizontal
7494.425000	-56.12	-13.00	43.12	Horizontal
9368.050000	-46.02	-13.00	33.02	Horizontal

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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.800000	-79.90	-13.00	66.90	Vertical
411.900000	-82.83	-13.00	69.83	Vertical
3792.025000	-55.81	-13.00	42.81	Vertical
5688.075000	-60.27	-13.00	47.27	Vertical
7584.125000	-53.64	-13.00	40.64	Vertical
9480.500000	-40.85	-13.00	27.85	Vertical
62.550000	-77.56	-13.00	64.56	Horizontal
412.300000	-83.27	-13.00	70.27	Horizontal
3792.025000	-51.90	-13.00	38.90	Horizontal
5688.075000	-56.06	-13.00	43.06	Horizontal
7584.450000	-56.25	-13.00	43.25	Horizontal
9480.500000	-45.38	-13.00	32.38	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



8 Frequency Stability

8.1 Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	VH	NT	-8.11	-0.004362	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	VL	NT	11.60	0.006237	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	VN	NT	6.43	0.003456	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	-6.77	-0.003596	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	3.27	0.001735	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	VN	NT	3.66	0.001946	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	VH	NT	8.90	0.004673	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	VL	NT	-11.77	-0.006177	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	VN	NT	12.88	0.006762	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	VH	NT	-7.37	-0.003965	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	VL	NT	-4.02	-0.002163	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	VN	NT	8.59	0.004618	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	VH	NT	-13.97	-0.007420	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	VL	NT	8.94	0.004751	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	VN	NT	-0.07	-0.000036	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	VH	NT	-10.09	-0.005296	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	VL	NT	-0.62	-0.000324	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	VN	NT	-5.85	-0.003071	±2.5	PASS

8.2 Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	NV	-30	-12.48	-0.006709	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	-20	-10.32	-0.005550	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	0	14.05	0.007555	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	10	10.17	0.005468	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	20	-2.80	-0.001506	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	30	0.60	0.000324	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	40	4.23	0.002273	±2.5	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	50	5.66	0.003041	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-30	-4.94	-0.002627	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	11.76	0.006249	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	-2.82	-0.001498	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	-2.69	-0.001427	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	-9.84	-0.005230	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	-12.81	-0.006805	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	-1.03	-0.000549	±2.5	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	-6.03	-0.003202	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	-30	-8.46	-0.004442	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	-20	-5.47	-0.002870	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	0	4.65	0.002440	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	10	-2.74	-0.001440	±2.5	PASS

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Band25	20MHz	QPSK	26590	100RB#0	NV	20	3.95	0.002072	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	30	6.60	0.003466	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	40	4.20	0.002203	±2.5	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	50	-6.02	-0.003159	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	-30	-3.26	-0.001750	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	-20	-4.52	-0.002430	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	0	-9.61	-0.005164	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	10	-4.91	-0.002639	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	20	2.44	0.001312	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	30	2.80	0.001507	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	40	12.90	0.006933	±2.5	PASS
Band25	20MHz	16QAM	26140	100RB#0	NV	50	-8.79	-0.004724	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	-30	-7.01	-0.003722	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	-20	-9.54	-0.005070	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	0	14.41	0.007655	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	10	-4.35	-0.002308	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	20	5.60	0.002974	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	30	0.03	0.000018	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	40	-6.48	-0.003444	±2.5	PASS
Band25	20MHz	16QAM	26365	100RB#0	NV	50	9.28	0.004928	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	-30	-0.40	-0.000208	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	-20	-5.07	-0.002659	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	0	-7.25	-0.003806	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	10	7.52	0.003947	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	20	-13.08	-0.006868	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	30	9.77	0.005129	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	40	2.92	0.001534	±2.5	PASS
Band25	20MHz	16QAM	26590	100RB#0	NV	50	6.57	0.003447	±2.5	PASS

The End

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