

Appendix B.2

E-UTRA Band 2

1. Main Test Instruments

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/10/20	2019/10/19
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11
Wideband Radio Communication Tester	Anritsu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/11/2	2019/11/1
Signal Analyzer	Rohde & Schwarz	FSV	W005-02	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/11/2	2019/11/1
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/11/2	2019/11/1
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/2	2019/11/1
Wideband Radio Communication Tester	Anritsu	MT8821C	6201462742	2019/3/2	2020/3/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/11/2	2019/11/1

2. Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item	Extended Uncertainty	Data
Transmit Output Power Data	Power [dBm]	$U = \pm 0.37 \text{ dB}$
Bandwidth	Magnitude [%]	$U = \pm 0.2\%$
Band Edge Compliance	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Spurious Emissions, Conducted	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Frequency Stability	Frequency Accuracy [ppm]	$U = \pm 0.24 \text{ ppm}$

3. Effective (Isotropic) Radiated Power

3.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.45	18.45	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.68	18.68	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.59	18.59	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	22.53	18.53	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	22.56	18.56	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.52	18.52	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.46	17.46	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.35	18.35	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.44	18.44	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.36	18.36	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.44	18.44	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.39	18.39	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.41	18.41	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.45	17.45	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.37	18.37	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.42	18.42	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.35	18.35	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.18	18.18	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.45	18.45	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.31	18.31	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.23	17.23	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.23	17.23	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.40	17.40	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.64	17.64	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.48	17.48	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.57	17.57	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.52	17.52	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.40	16.40	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.27	17.27	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.33	17.33	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	20.91	16.91	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.05	17.05	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.26	17.26	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.12	17.12	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.25	16.25	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.20	17.20	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.18	17.18	33.00	PASS

Band2	1.4MHz	16QAM	19193	1RB#5	21.04	17.04	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.10	17.10	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.14	17.14	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	21.31	17.31	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.07	16.07	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.45	18.45	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.52	18.52	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.46	18.46	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.50	17.50	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.38	17.38	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.48	17.48	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.44	17.44	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.33	18.33	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.32	18.32	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.34	18.34	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.33	17.33	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.34	17.34	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.36	17.36	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.31	17.31	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.28	18.28	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.47	18.47	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.21	18.21	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.20	17.20	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.27	17.27	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.13	17.13	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.11	17.11	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.37	17.37	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.43	17.43	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.28	17.28	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.50	16.50	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.39	16.39	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.37	16.37	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.49	16.49	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.16	17.16	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.27	17.27	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.07	17.07	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.24	16.24	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.25	16.25	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.34	16.34	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.23	16.23	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.15	17.15	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.10	17.10	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	20.75	16.75	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.12	16.12	33.00	PASS

Band2	3MHz	16QAM	19185	8RB#4	20.10	16.10	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#7	20.15	16.15	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.15	16.15	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.39	18.39	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.50	18.50	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.35	18.35	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.49	17.49	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.51	17.51	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.41	17.41	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.38	17.38	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.42	18.42	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.52	18.52	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.48	18.48	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.24	17.24	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.34	17.34	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.37	17.37	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.31	17.31	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.25	18.25	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.77	18.77	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.27	18.27	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.13	17.13	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.39	17.39	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.35	17.35	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.10	17.10	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.34	17.34	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.39	17.39	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.36	17.36	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.45	16.45	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.43	16.43	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.31	16.31	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.33	16.33	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.23	17.23	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.22	17.22	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.19	17.19	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.16	16.16	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.37	16.37	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.36	16.36	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.41	16.41	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.31	17.31	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.42	17.42	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	20.97	16.97	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.10	16.10	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.40	16.40	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.20	16.20	33.00	PASS

Band2	5MHz	16QAM	19175	25RB#0	20.33	16.33	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.34	18.34	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.64	18.64	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.28	18.28	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.58	17.58	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.46	17.46	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.27	17.27	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.37	17.37	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.23	18.23	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.95	18.95	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.05	18.05	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.37	17.37	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.46	17.46	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.22	17.22	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.23	17.23	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.30	18.30	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.80	18.80	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.14	18.14	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.16	17.16	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.45	17.45	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.18	17.18	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.10	17.10	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.30	17.30	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.76	17.76	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.05	17.05	33.00	PASS
Band2	10MHz	16QAM	18650	27RB#0	21.13	17.13	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.49	17.49	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.80	17.80	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	20.80	16.80	33.00	PASS
Band2	10MHz	16QAM	18900	27RB#0	20.50	16.50	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.27	17.27	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.72	17.72	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	20.88	16.88	33.00	PASS
Band2	10MHz	16QAM	19150	27RB#0	20.53	16.53	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.33	18.33	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.74	18.74	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.22	18.22	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#0	21.52	17.52	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#18	21.62	17.62	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#39	21.33	17.33	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.32	17.32	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.23	18.23	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.84	18.84	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.01	18.01	33.00	PASS

Band2	15MHz	QPSK	18900	36RB#0	21.35	17.35	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#18	21.44	17.44	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#39	21.24	17.24	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.22	17.22	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.32	18.32	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.38	18.38	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.10	18.10	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#0	21.30	17.30	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#18	21.33	17.33	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#39	21.11	17.11	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.23	17.23	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.33	17.33	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.57	17.57	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	20.82	16.82	33.00	PASS
Band2	15MHz	16QAM	18675	27RB#0	21.34	17.34	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.27	17.27	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.98	17.98	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	20.79	16.79	33.00	PASS
Band2	15MHz	16QAM	18900	27RB#0	20.82	16.82	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.33	17.33	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.27	17.27	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	20.81	16.81	33.00	PASS
Band2	15MHz	16QAM	19125	27RB#0	20.56	16.56	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.40	18.40	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.00	19.00	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.04	18.04	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.58	17.58	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.61	17.61	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.43	17.43	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.53	17.53	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.24	18.24	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.39	19.39	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	21.97	17.97	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.53	17.53	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.58	17.58	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.23	17.23	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.22	17.22	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.34	18.34	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.49	18.49	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	21.89	17.89	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.24	17.24	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.27	17.27	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.05	17.05	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.14	17.14	33.00	PASS

Band2	20MHz	16QAM	18700	1RB#0	21.25	17.25	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.05	18.05	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	20.90	16.90	33.00	PASS
Band2	20MHz	16QAM	18700	27RB#0	20.86	16.86	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.13	17.13	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.06	18.06	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	20.77	16.77	33.00	PASS
Band2	20MHz	16QAM	18900	27RB#0	20.52	16.52	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.33	17.33	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.12	17.12	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.13	17.13	33.00	PASS
Band2	20MHz	16QAM	19100	27RB#0	20.65	16.65	33.00	PASS

Remark:

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

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

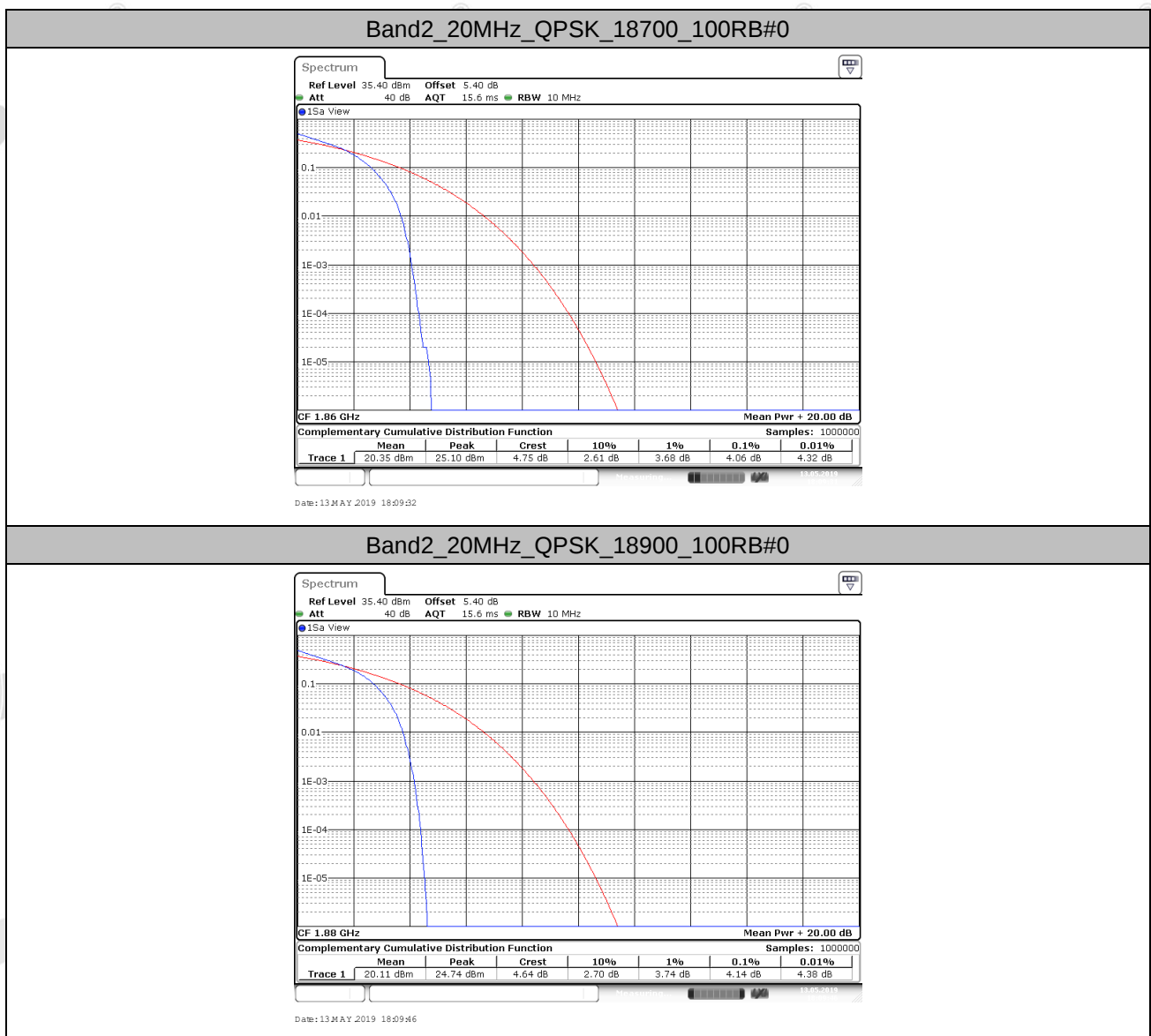
$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

4. Peak-to-Average Ratio(CCDF)

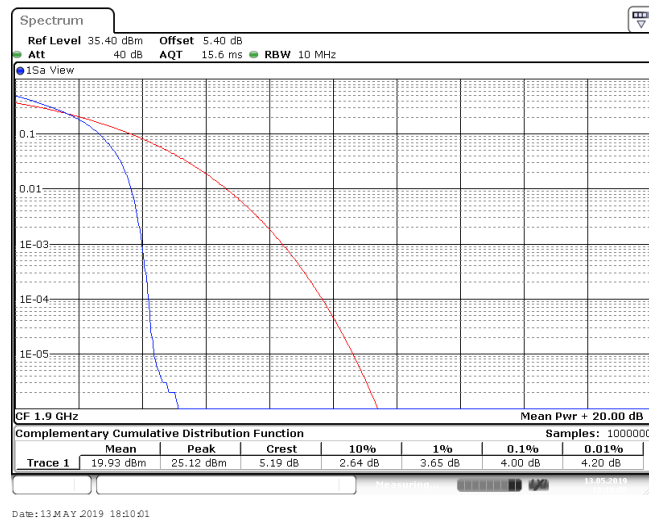
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.06	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.14	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.00	13	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.36	13	PASS
Band2	20MHz	16QAM	18900	27RB#0	5.45	13	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.22	13	PASS

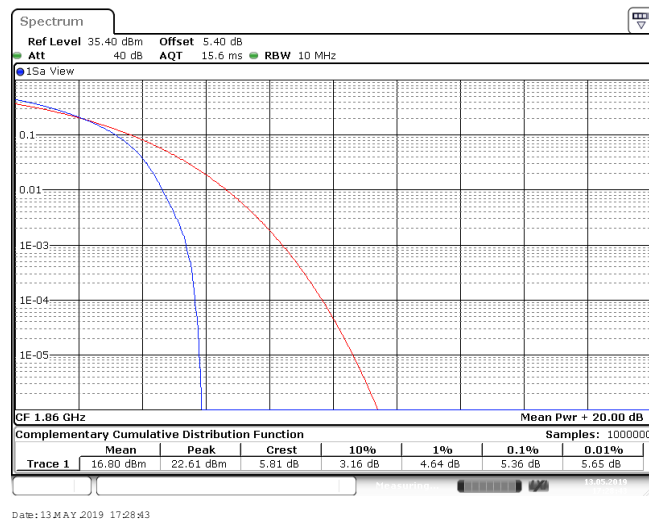
4.2. Test Plots



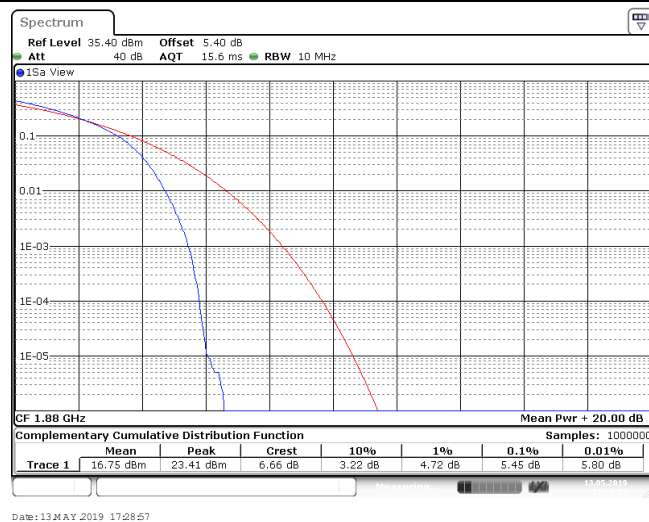
Band2_20MHz_QPSK_19100_100RB#0



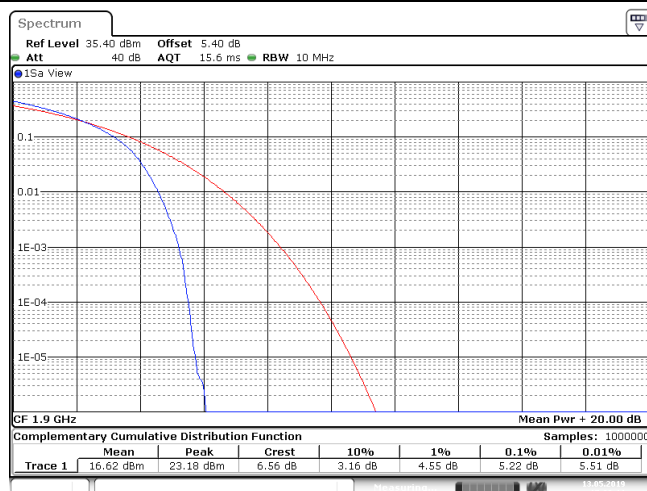
Band2_20MHz_16QAM_18700_27RB#0



Band2_20MHz_16QAM_18900_27RB#0



Band2_20MHz_16QAM_19100_27RB#0



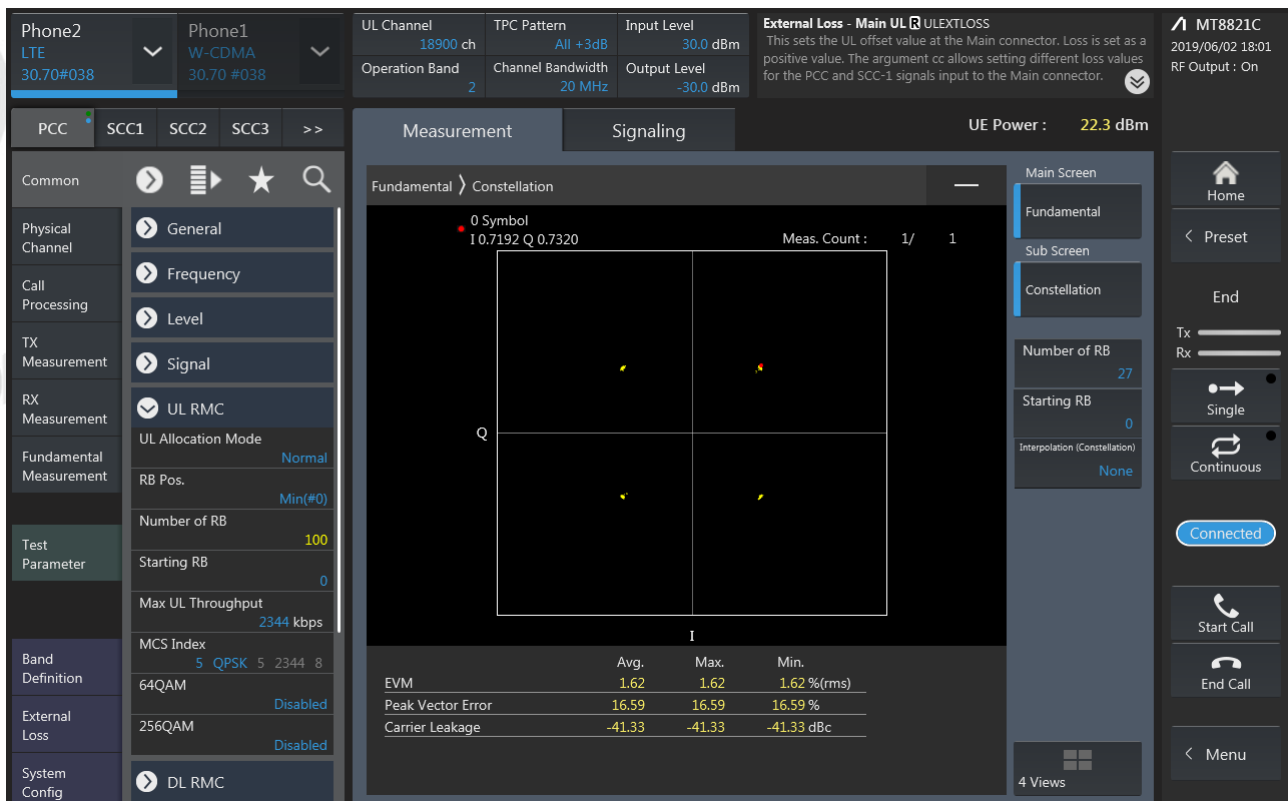
Date: 13 MAY 2019 17:29:22

5. Modulation Characteristics

5.1. Test BAND = LTE Band 2

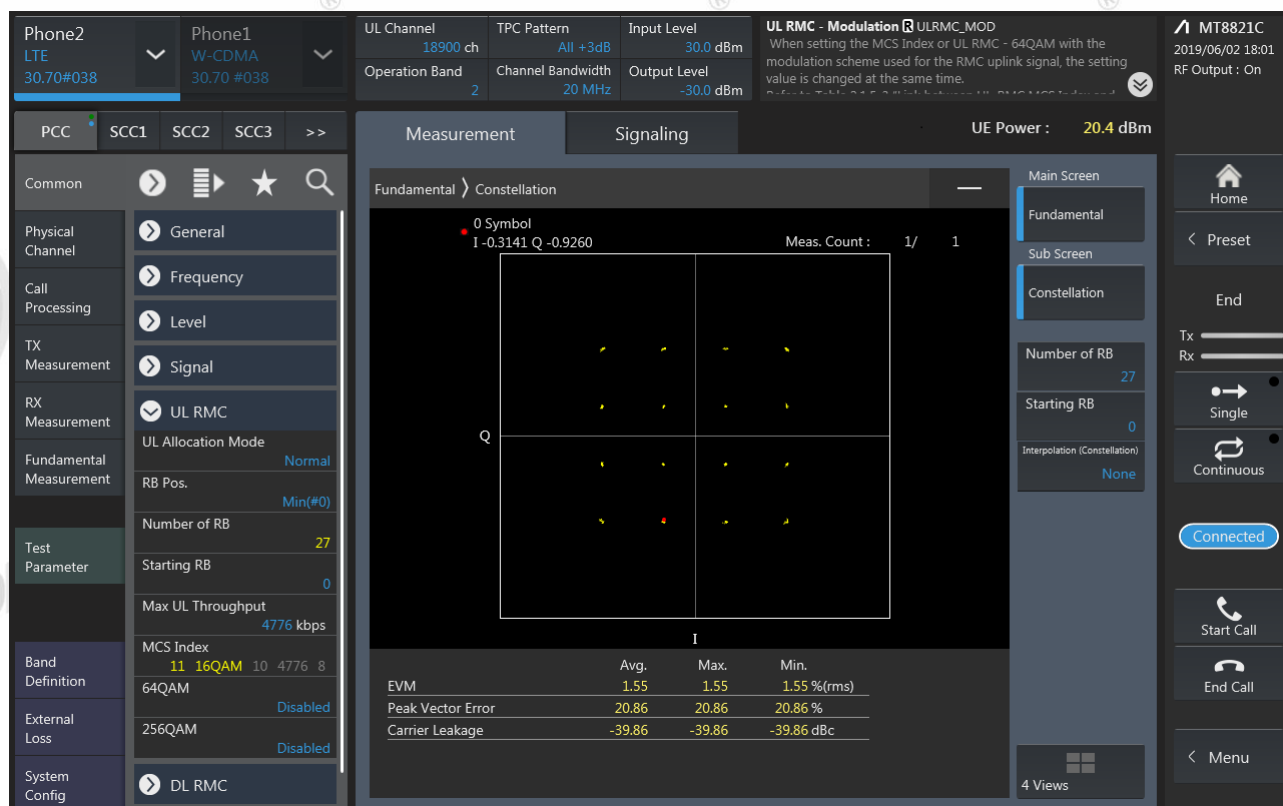
5.2. Test Mode = LTE /TM1 20MHz

5.2.1. Test Channel = MCH



5.3. Test Mode = LTE /TM2 20MHz

5.3.1. Test Channel = MCH



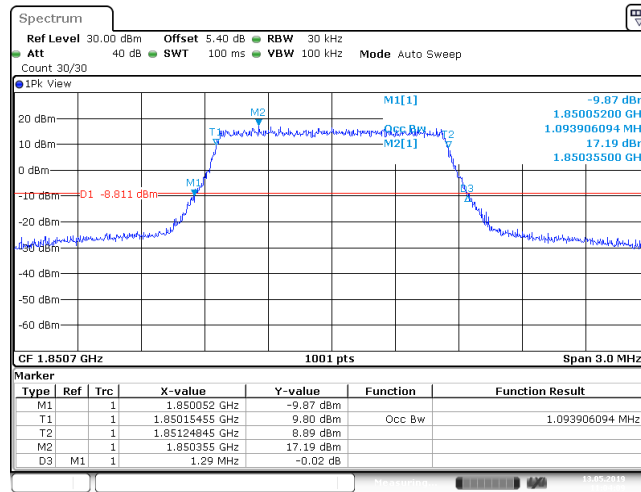
6. 26dB Bandwidth and Occupied Bandwidth

6.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.094	1.290	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.097	1.317	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.097	1.302	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.094	1.296	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.094	1.311	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.097	1.305	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.697	3.000	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.697	2.982	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.691	2.988	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.685	2.994	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.697	2.982	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.697	2.994	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.466	4.960	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.476	4.910	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.466	4.910	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.476	4.930	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.466	4.910	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.466	4.920	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.931	9.680	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.931	9.680	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.931	9.680	PASS
Band2	10MHz	16QAM	18650	27RB#0	4.875	5.680	PASS
Band2	10MHz	16QAM	18900	27RB#0	4.875	5.700	PASS
Band2	10MHz	16QAM	19150	27RB#0	4.875	5.660	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.457	14.730	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.487	14.700	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.457	14.640	PASS
Band2	15MHz	16QAM	18675	27RB#0	5.065	6.090	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.065	6.120	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.065	6.090	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.862	19.440	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.902	19.400	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.902	19.440	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.155	6.480	PASS
Band2	20MHz	16QAM	18900	27RB#0	5.155	6.320	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.115	6.360	PASS

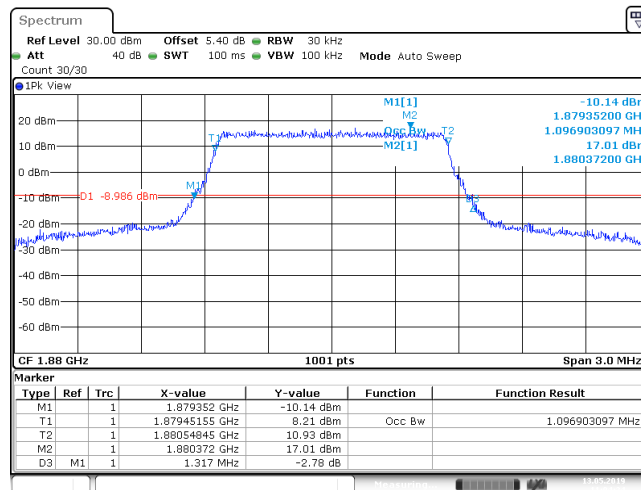
6.2. Test Plots

Band2_1.4MHz_QPSK_18607_6RB#0



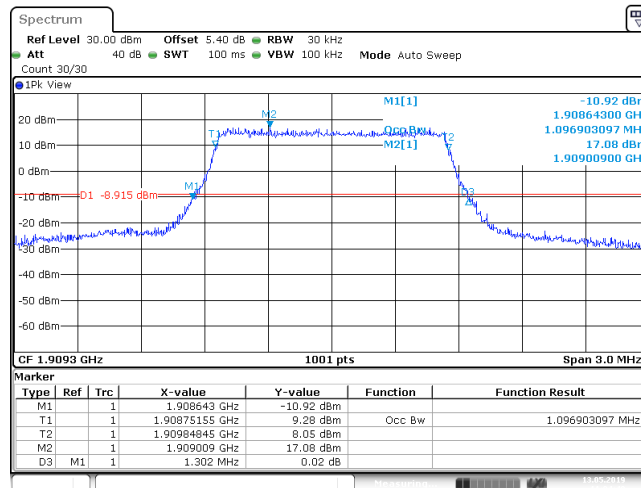
Date: 13 MAY 2019 11:04:09

Band2_1.4MHz_QPSK_18900_6RB#0



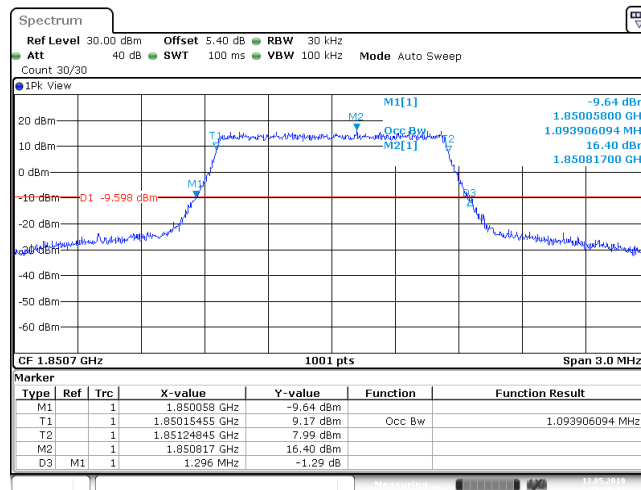
Date: 13 MAY 2019 11:04:25

Band2_1.4MHz_QPSK_19193_6RB#0



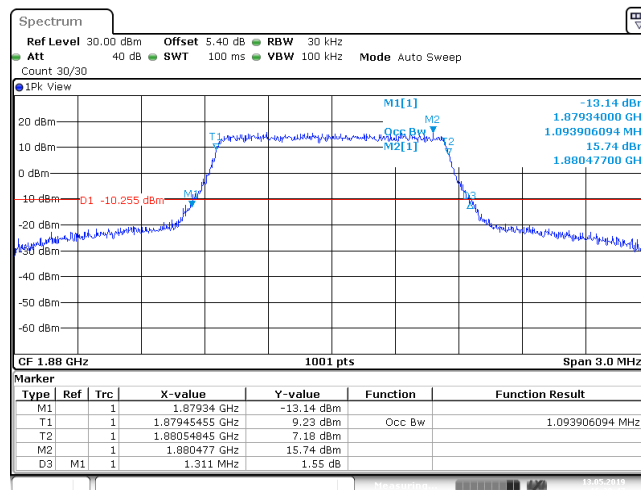
Date: 13 MAY 2019 11:04:41

Band2_1.4MHz_16QAM_18607_6RB#0



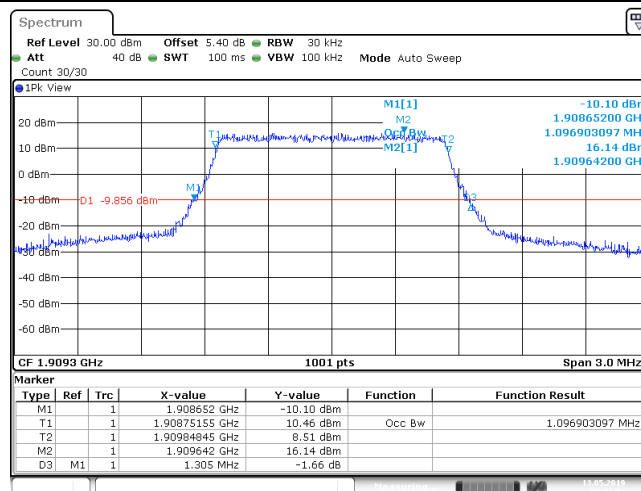
Date: 13 MAY 2019 16:20:32

Band2_1.4MHz_16QAM_18900_6RB#0



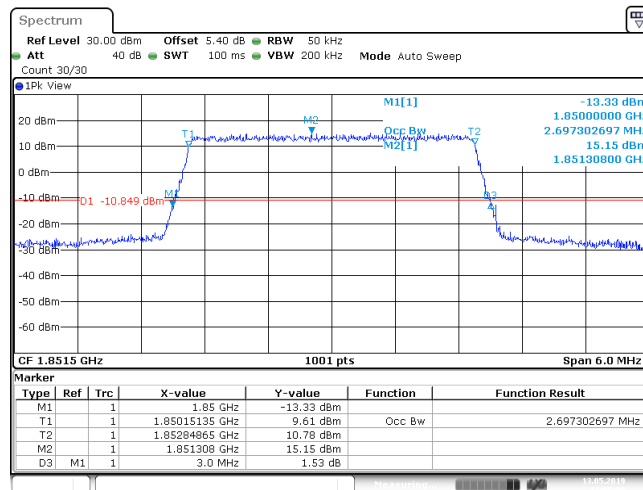
Date: 13 MAY 2019 16:20:48

Band2_1.4MHz_16QAM_19193_6RB#0



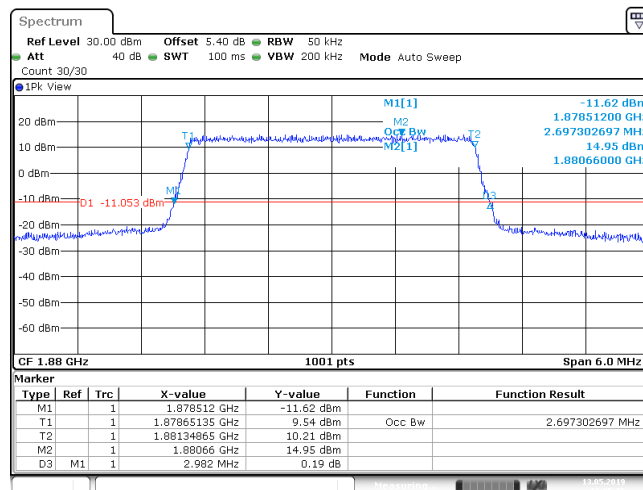
Date: 13 MAY 2019 16:21:04

Band2_3MHz_QPSK_18615_15RB#0



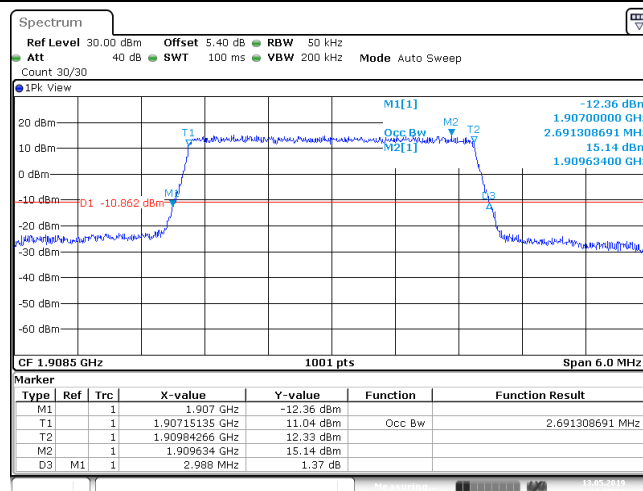
Date: 13 MAY 2019 11:05:00

Band2_3MHz_QPSK_18900_15RB#0



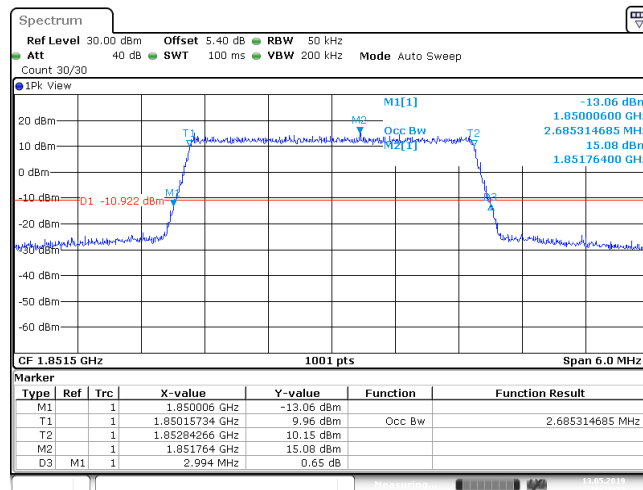
Date: 13 MAY 2019 11:05:16

Band2_3MHz_QPSK_19185_15RB#0



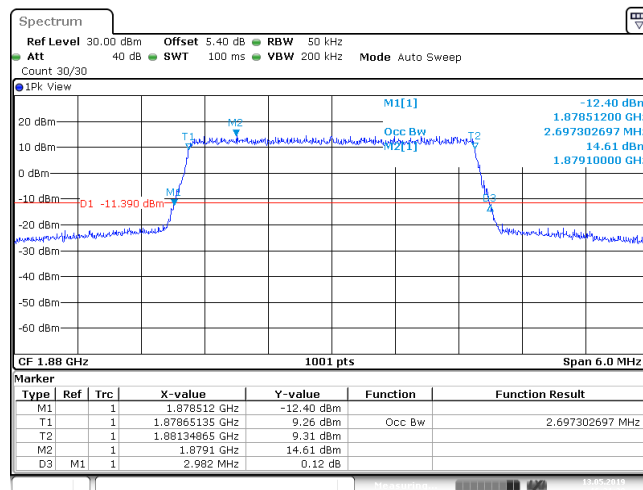
Date: 13 MAY 2019 11:05:32

Band2_3MHz_16QAM_18615_15RB#0



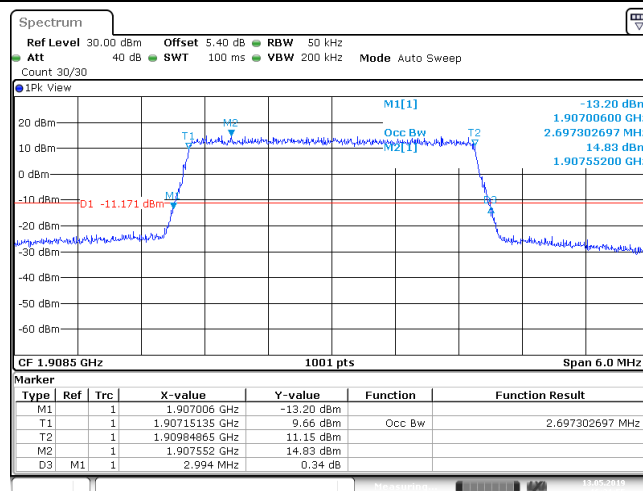
Date: 13 MAY 2019 16:21:23

Band2_3MHz_16QAM_18900_15RB#0



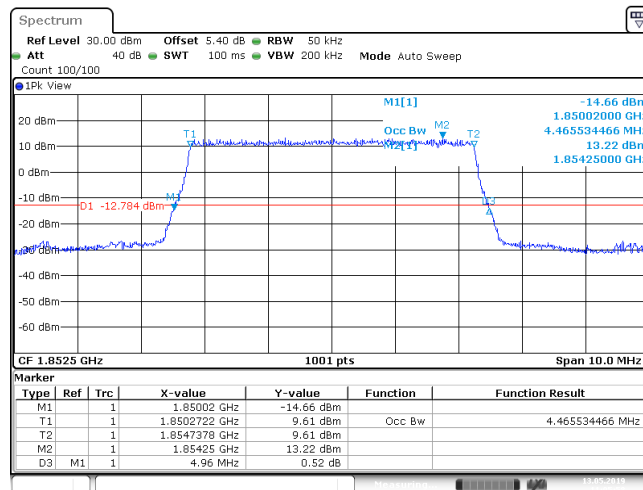
Date: 13 MAY 2019 16:21:39

Band2_3MHz_16QAM_19185_15RB#0



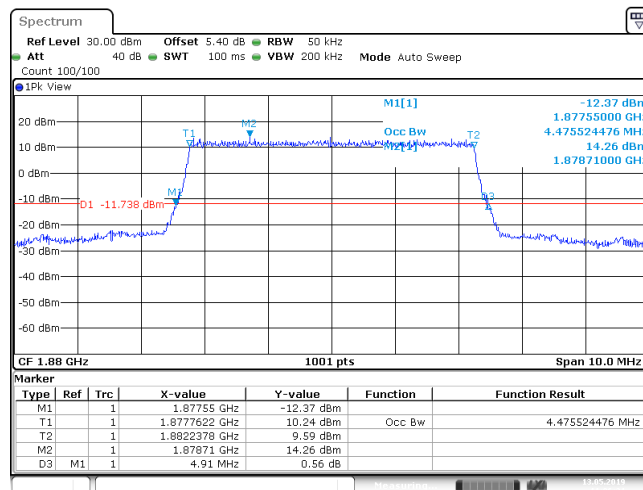
Date: 13 MAY 2019 16:21:55

Band2_5MHz_QPSK_18625_25RB#0



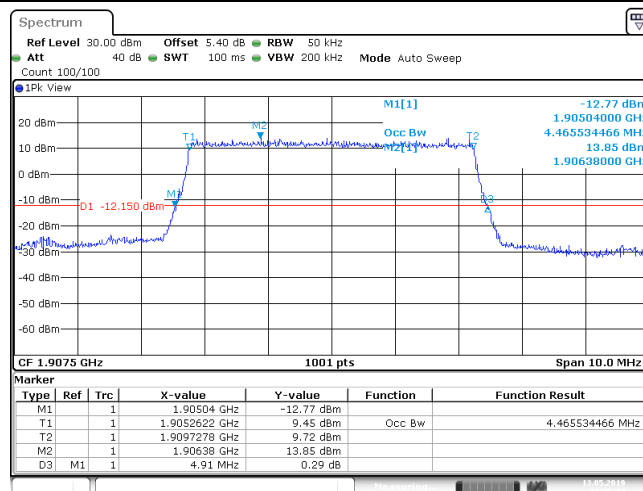
Date: 13 MAY 2019 11:05:59

Band2_5MHz_QPSK_18900_25RB#0



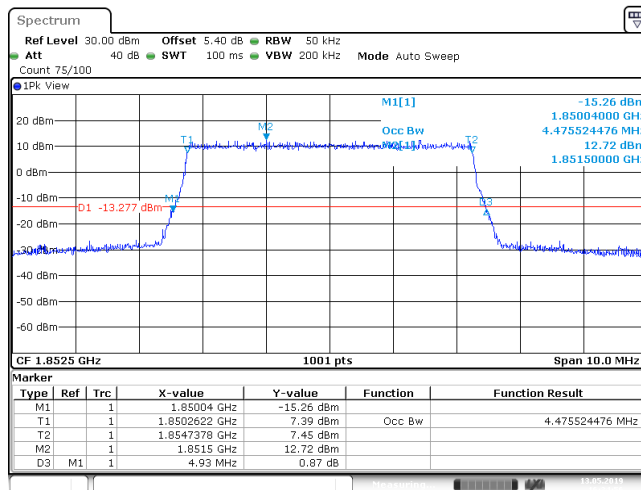
Date: 13 MAY 2019 11:06:21

Band2_5MHz_QPSK_19175_25RB#0



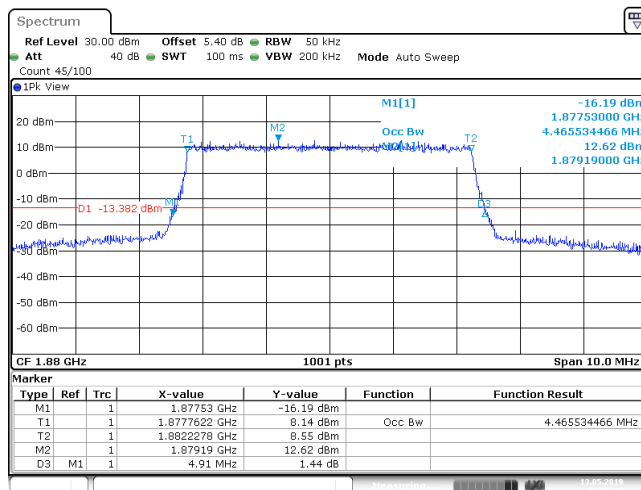
Date: 13 MAY 2019 11:06:44

Band2_5MHz_16QAM_18625_25RB#0



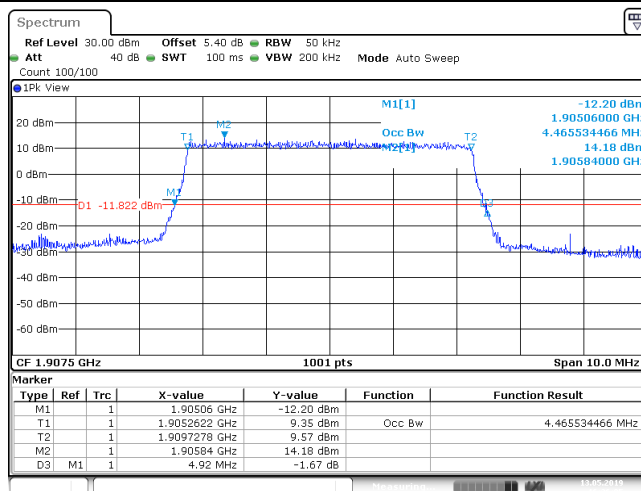
Date: 13 MAY 2019 16:34:57

Band2_5MHz_16QAM_18900_25RB#0



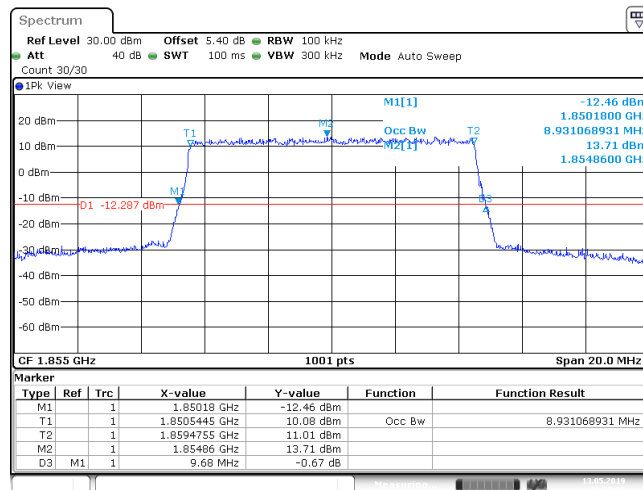
Date: 13 MAY 2019 16:35:34

Band2_5MHz_16QAM_19175_25RB#0

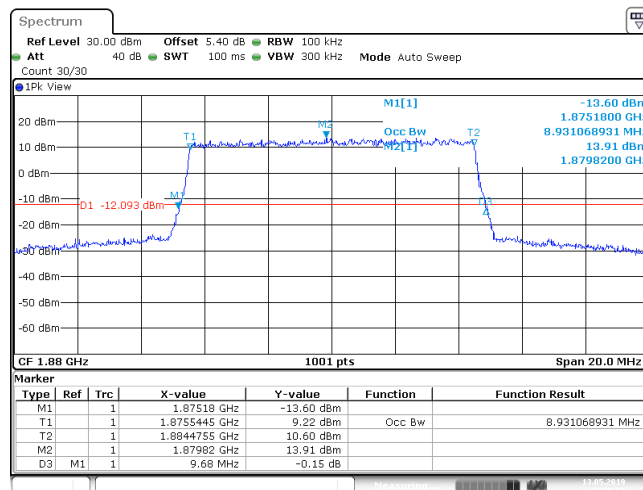


Date: 13 MAY 2019 16:36:05

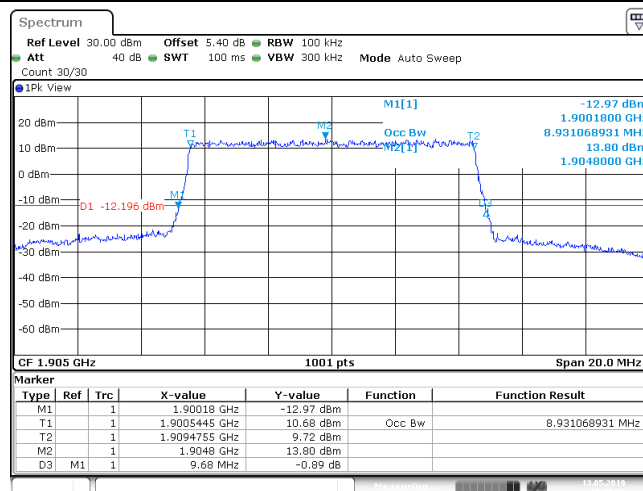
Band2_10MHz_QPSK_18650_50RB#0



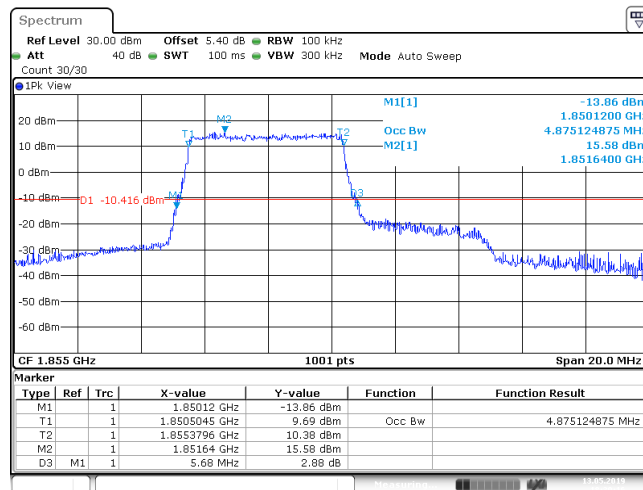
Band2_10MHz_QPSK_18900_50RB#0



Band2_10MHz_QPSK_19150_50RB#0

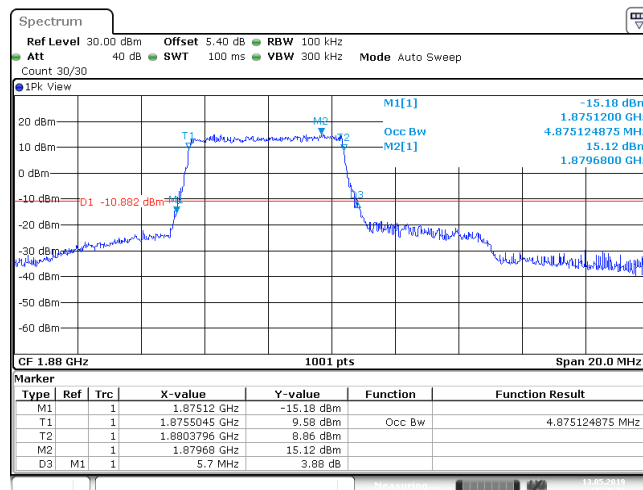


Band2_10MHz_16QAM_18650_27RB#0



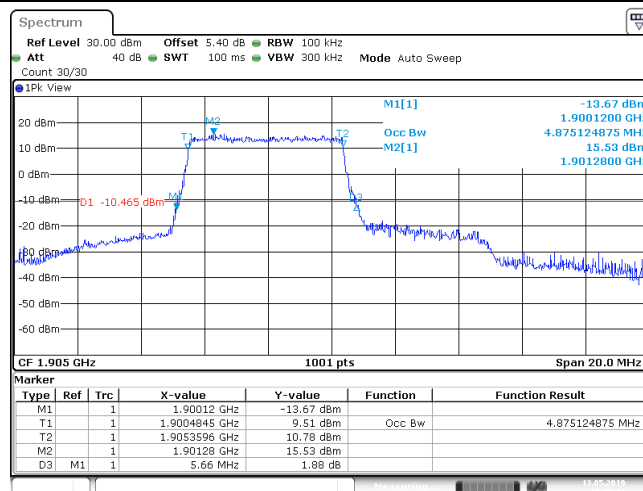
Date: 13 MAY 2019 18:30:16

Band2_10MHz_16QAM_18900_27RB#0



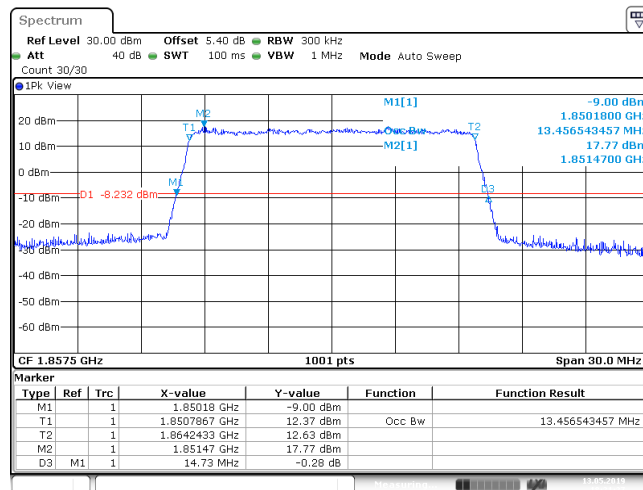
Date: 13 MAY 2019 18:30:32

Band2_10MHz_16QAM_19150_27RB#0



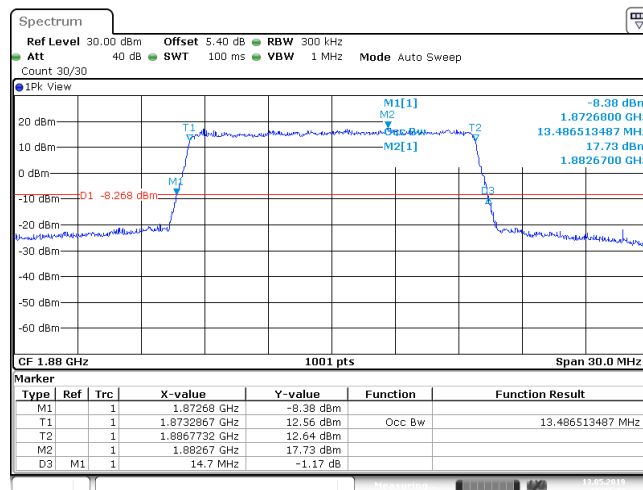
Date: 13 MAY 2019 18:30:47

Band2_15MHz_QPSK_18675_75RB#0



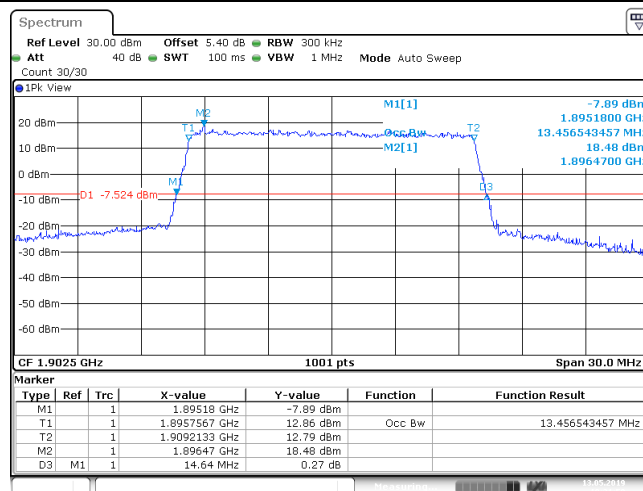
Date: 13 MAY 2019 18:21:27

Band2_15MHz_QPSK_18900_75RB#0



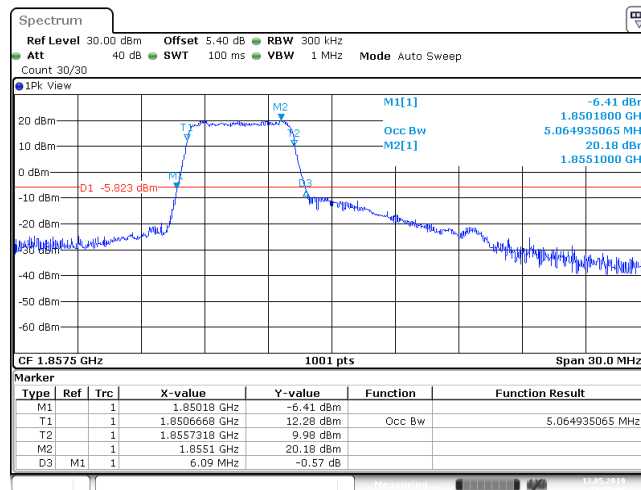
Date: 13 MAY 2019 18:21:43

Band2_15MHz_QPSK_19125_75RB#0

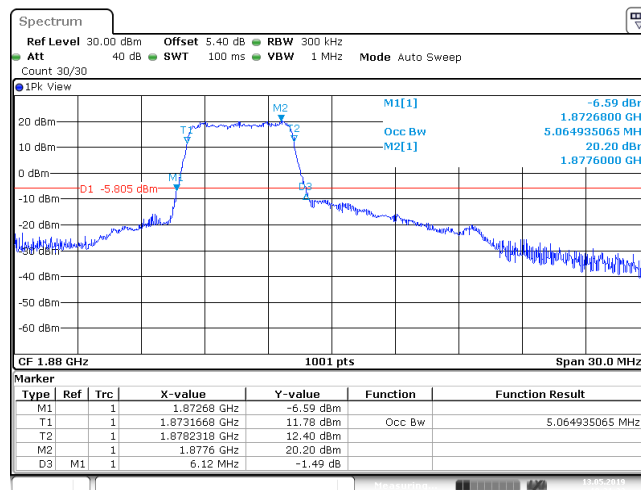


Date: 13 MAY 2019 18:21:59

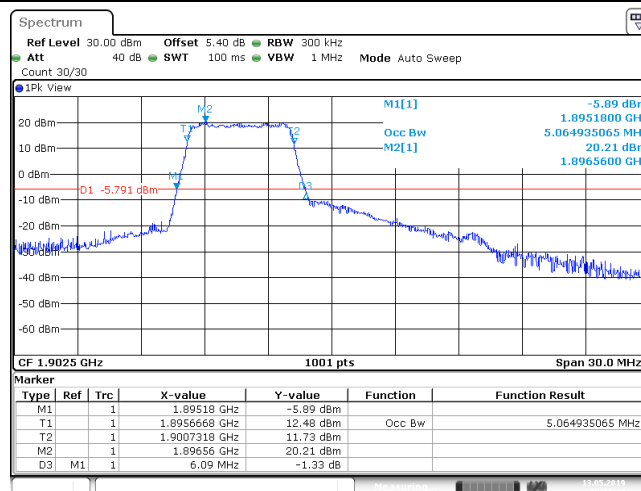
Band2_15MHz_16QAM_18675_27RB#0



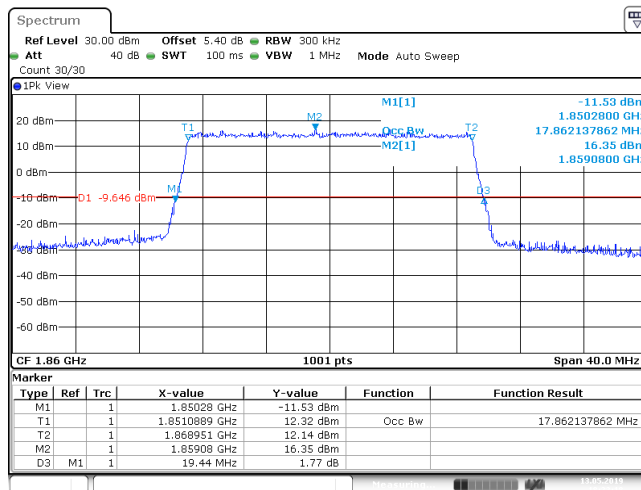
Band2_15MHz_16QAM_18900_27RB#0



Band2_15MHz_16QAM_19125_27RB#0

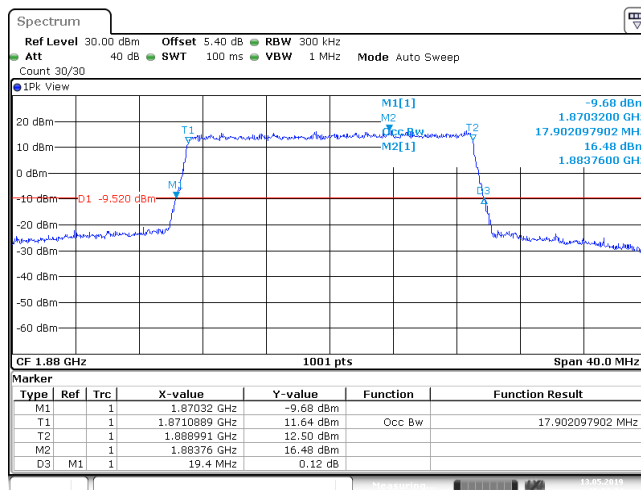


Band2_20MHz_QPSK_18700_100RB#0



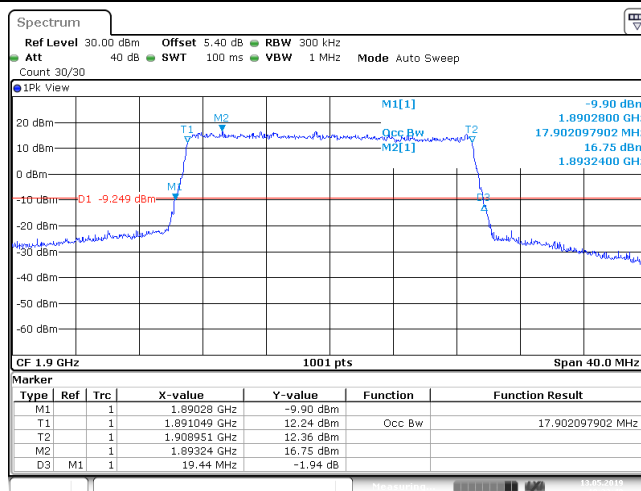
Date: 13 MAY 2019 18:22:18

Band2_20MHz_QPSK_18900_100RB#0



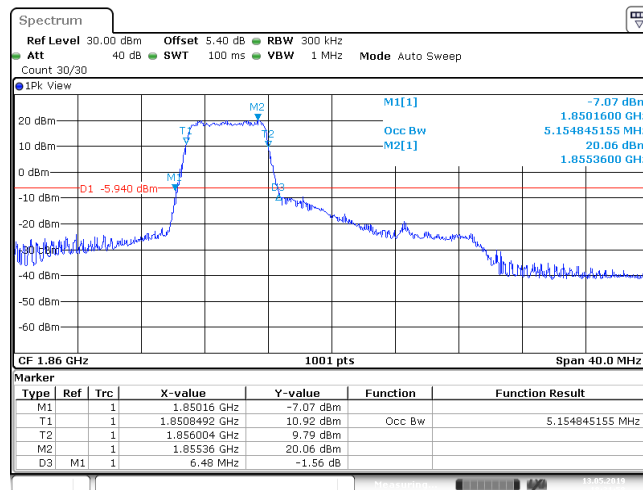
Date: 13 MAY 2019 18:22:34

Band2_20MHz_QPSK_19100_100RB#0



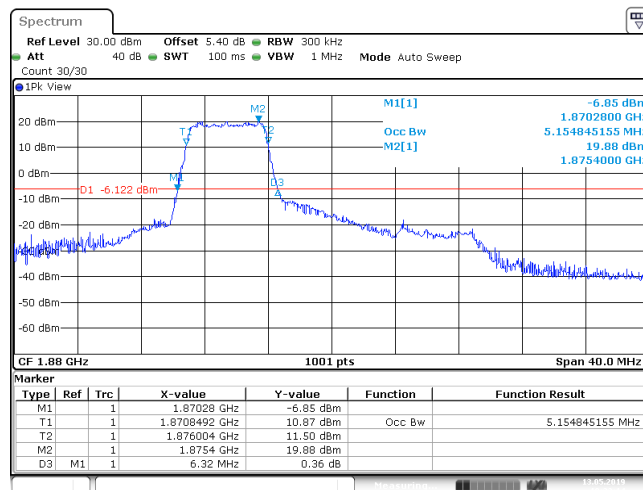
Date: 13 MAY 2019 18:22:50

Band2_20MHz_16QAM_18700_27RB#0



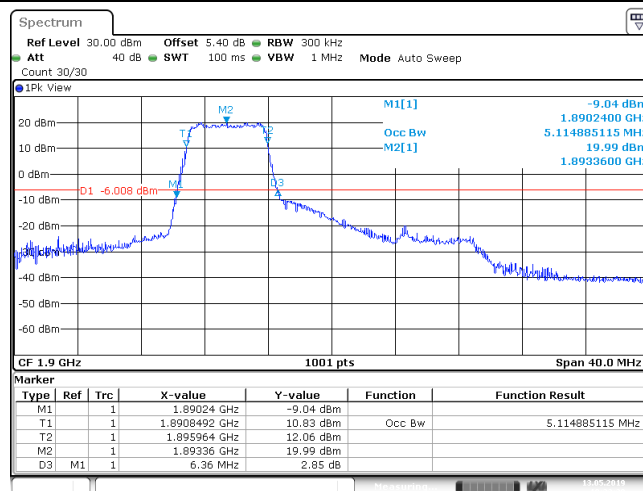
Date: 13 MAY 2019 18:31:59

Band2_20MHz_16QAM_18900_27RB#0



Date: 13 MAY 2019 18:32:44

Band2_20MHz_16QAM_19100_27RB#0

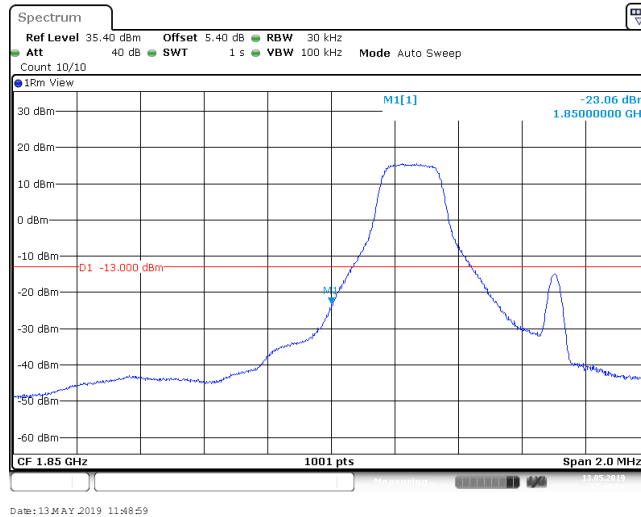


Date: 13 MAY 2019 18:32:30

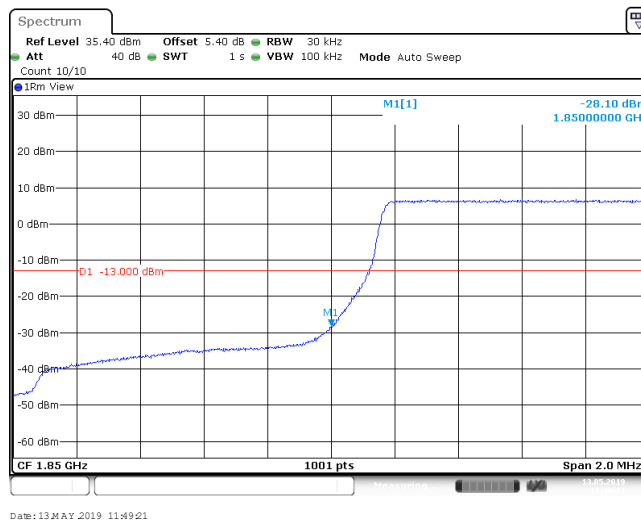
7. Band Edge Compliance

7.1. Test Plots

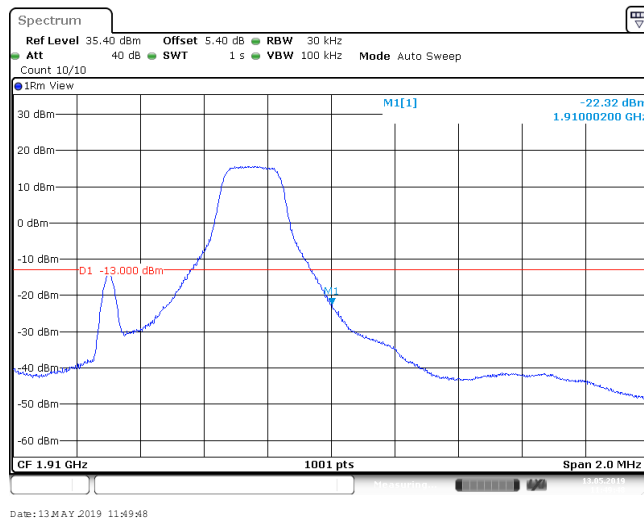
Band2_1.4MHz_QPSK_18607_1RB#0



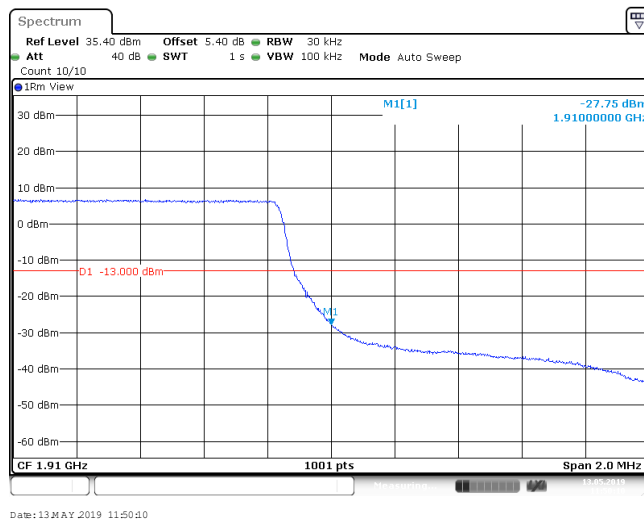
Band2_1.4MHz_QPSK_18607_6RB#0



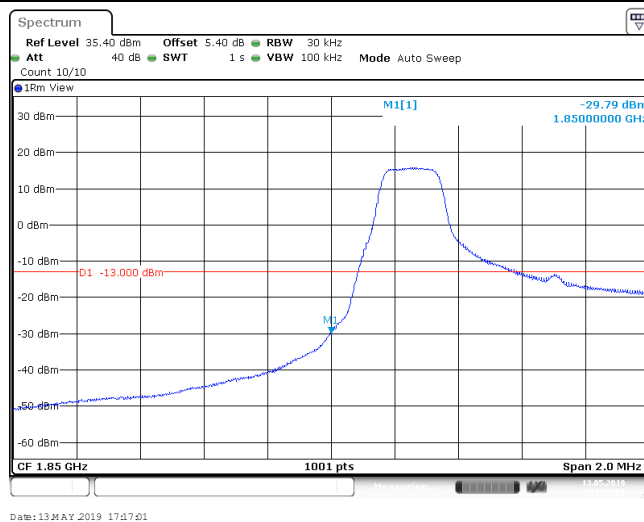
Band2_1.4MHz_QPSK_19193_1RB#5



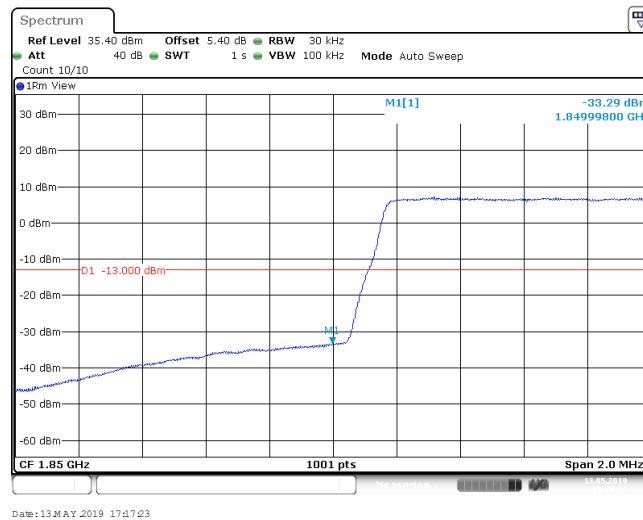
Band2_1.4MHz_QPSK_19193_6RB#0



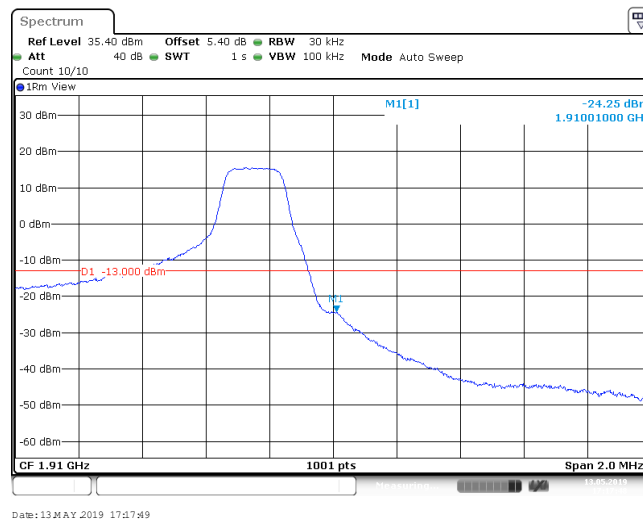
Band2_1.4MHz_16QAM_18607_1RB#0



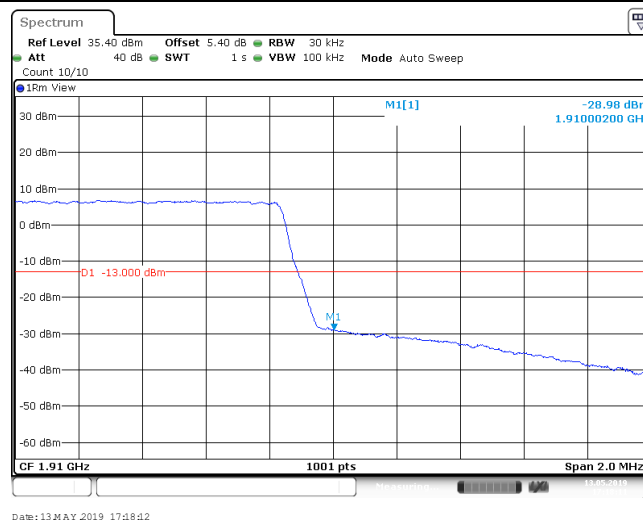
Band2_1.4MHz_16QAM_18607_6RB#0



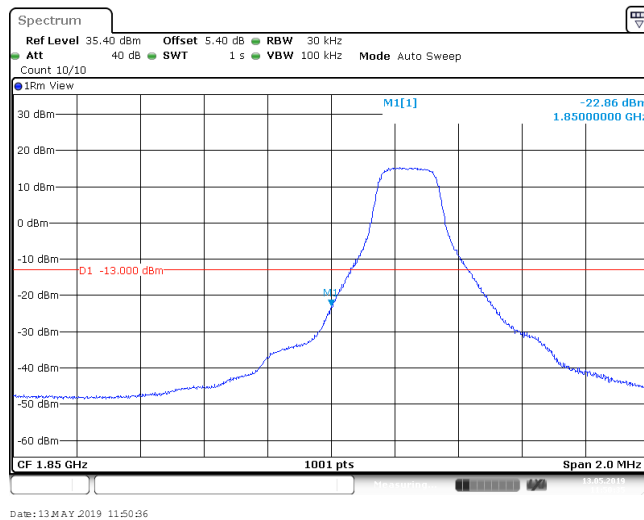
Band2_1.4MHz_16QAM_19193_1RB#5



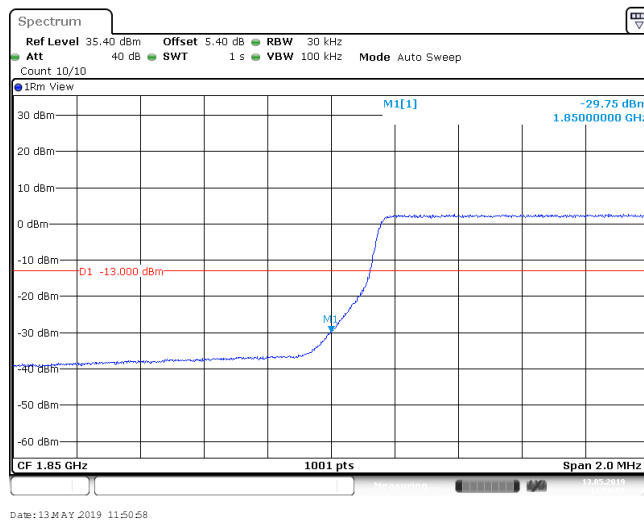
Band2_1.4MHz_16QAM_19193_6RB#0



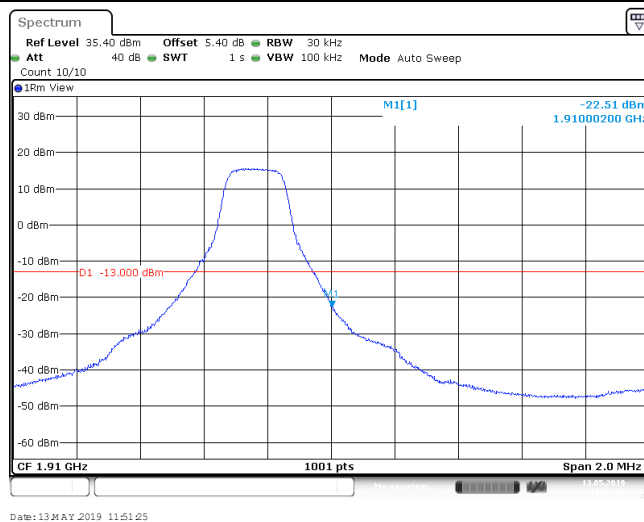
Band2_3MHz_QPSK_18615_1RB#0



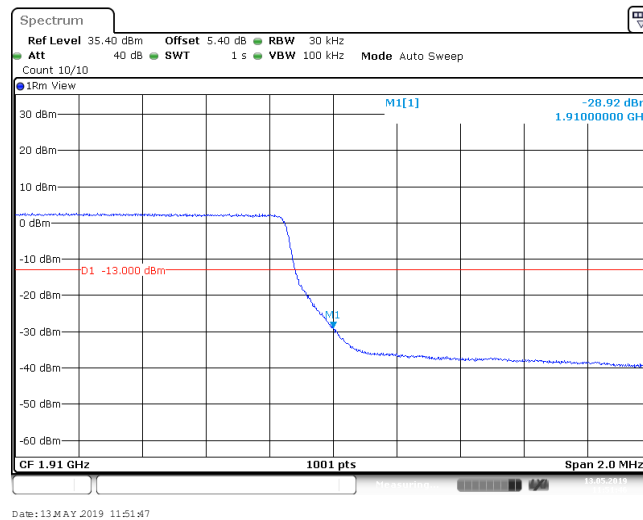
Band2_3MHz_QPSK_18615_15RB#0



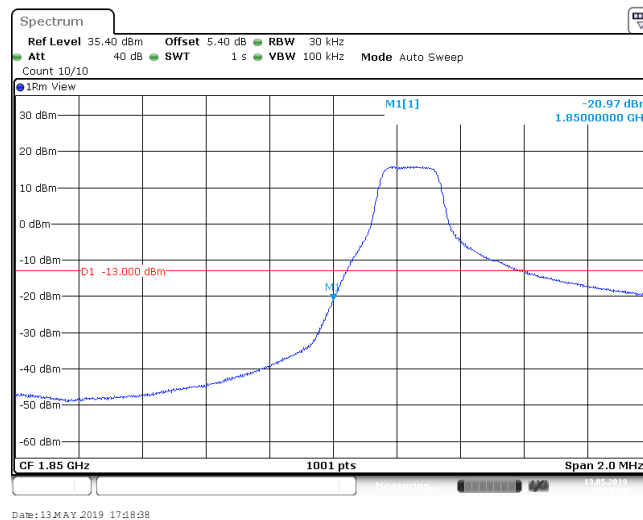
Band2_3MHz_QPSK_19185_1RB#14



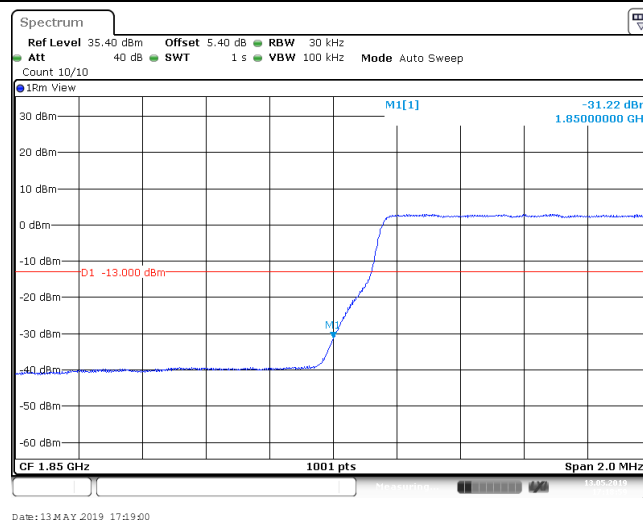
Band2_3MHz_QPSK_19185_15RB#0



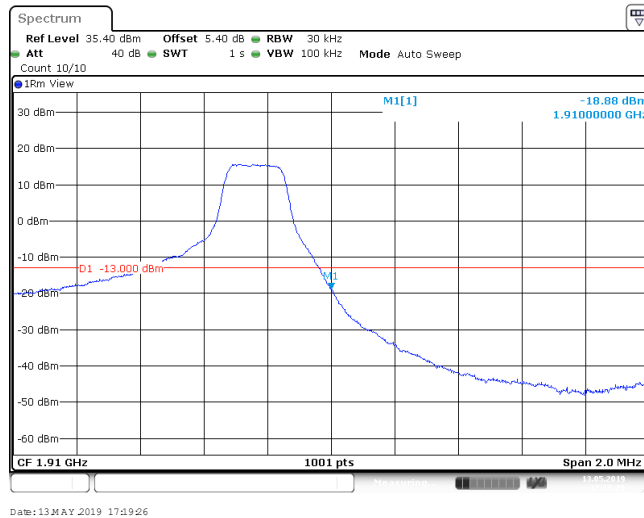
Band2_3MHz_16QAM_18615_1RB#0



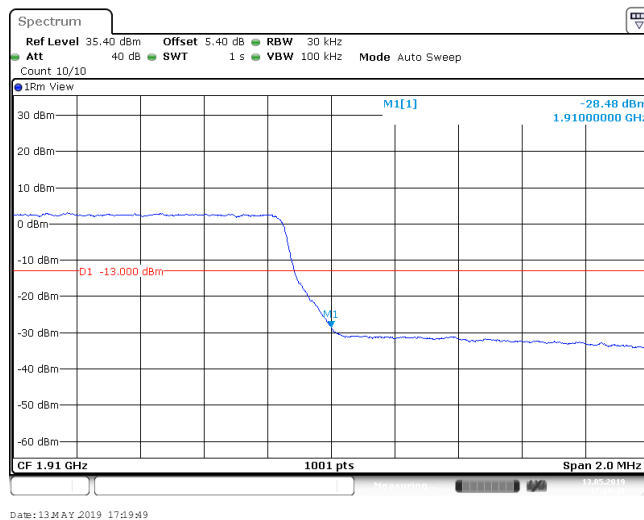
Band2_3MHz_16QAM_18615_15RB#0



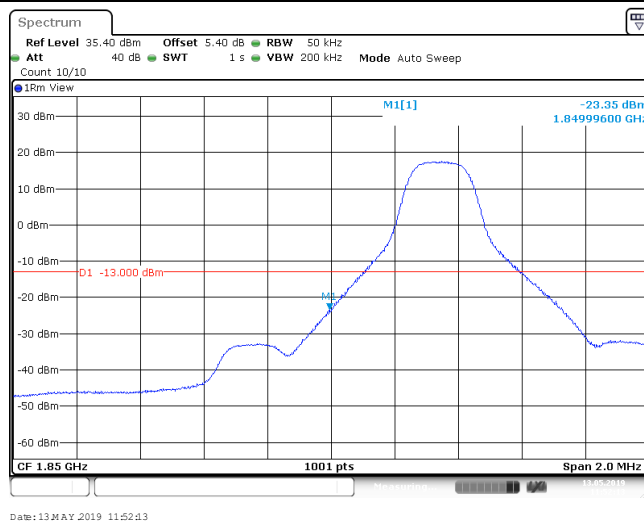
Band2_3MHz_16QAM_19185_1RB#14



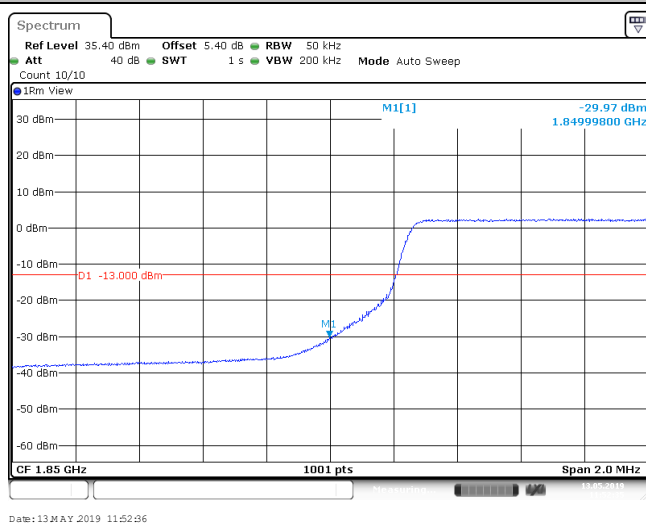
Band2_3MHz_16QAM_19185_15RB#0



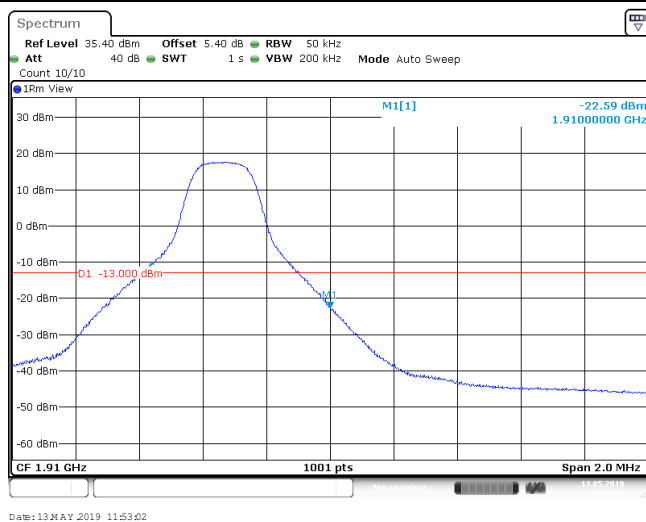
Band2_5MHz_QPSK_18625_1RB#0



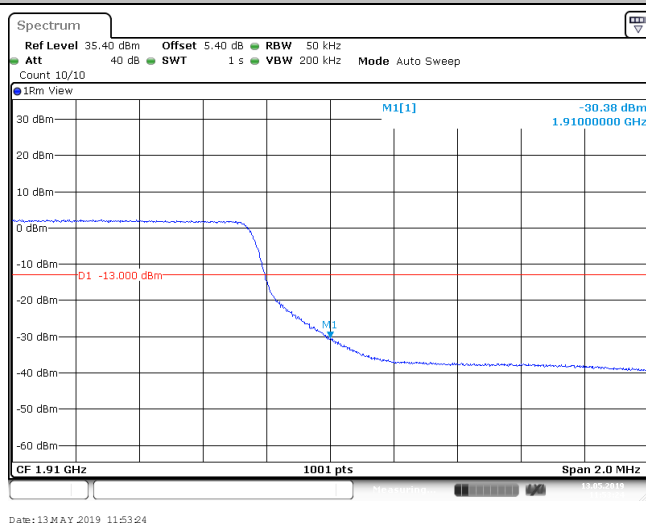
Band2_5MHz_QPSK_18625_25RB#0



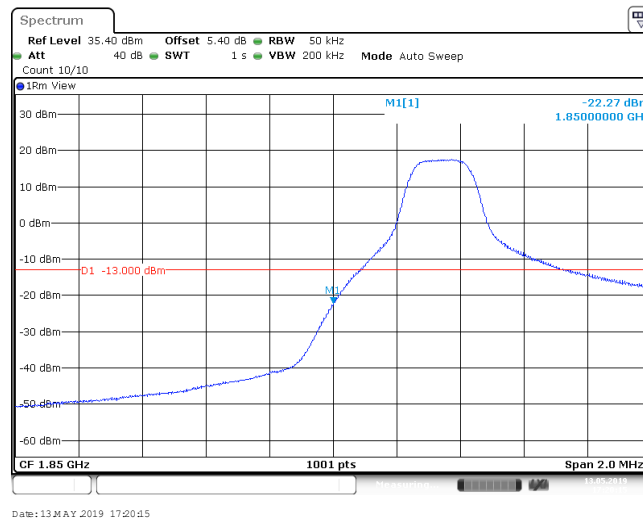
Band2_5MHz_QPSK_19175_1RB#24



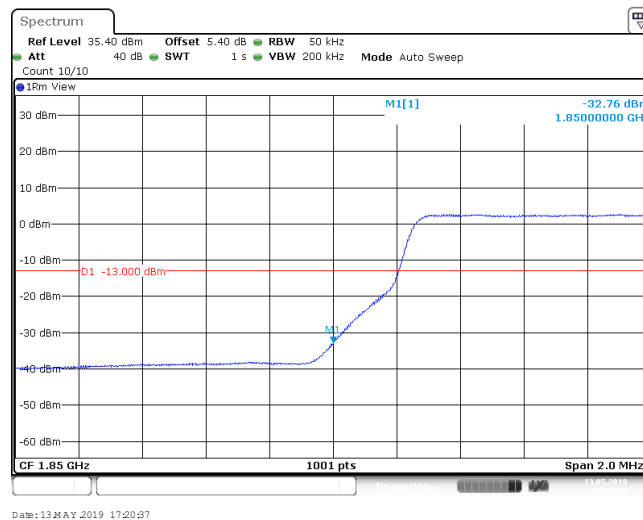
Band2_5MHz_QPSK_19175_25RB#0



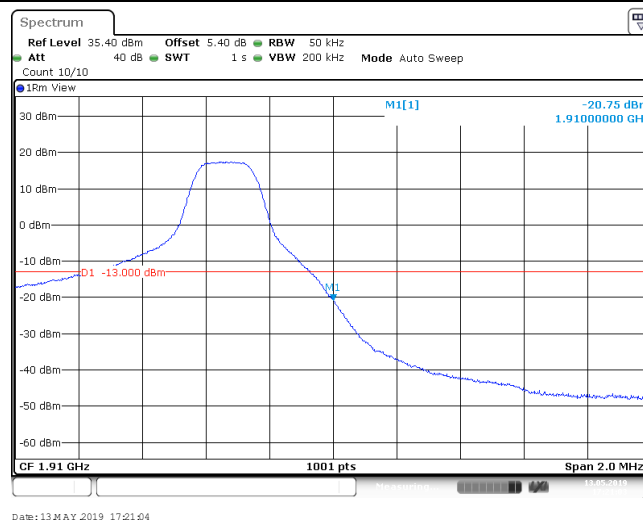
Band2_5MHz_16QAM_18625_1RB#0



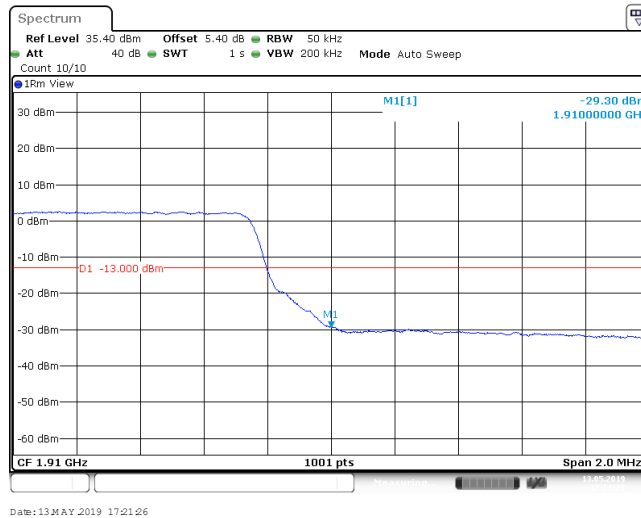
Band2_5MHz_16QAM_18625_25RB#0



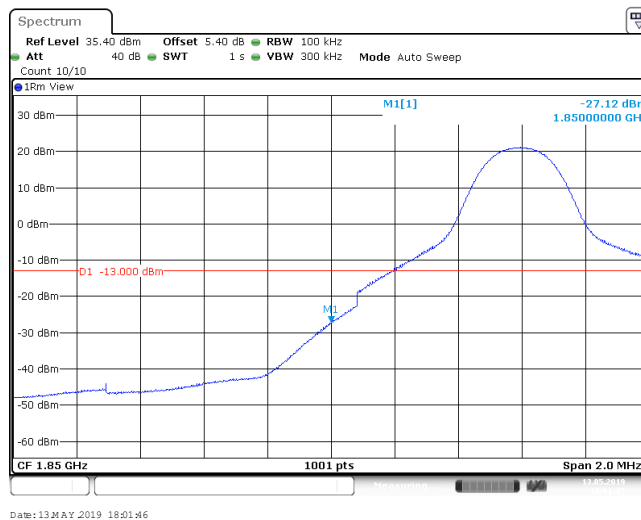
Band2_5MHz_16QAM_19175_1RB#24



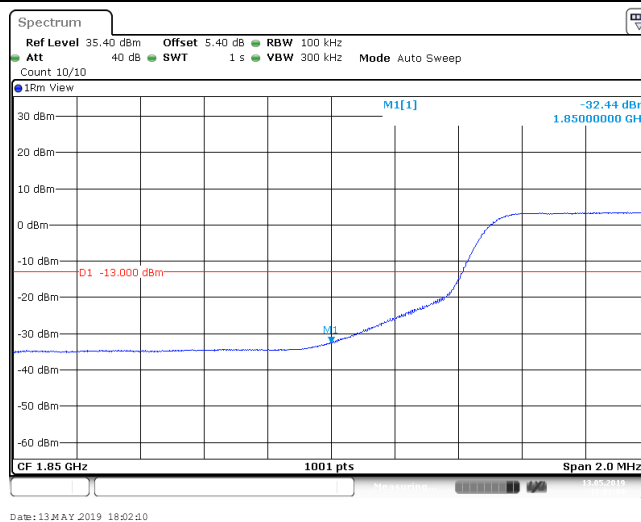
Band2_5MHz_16QAM_19175_25RB#0



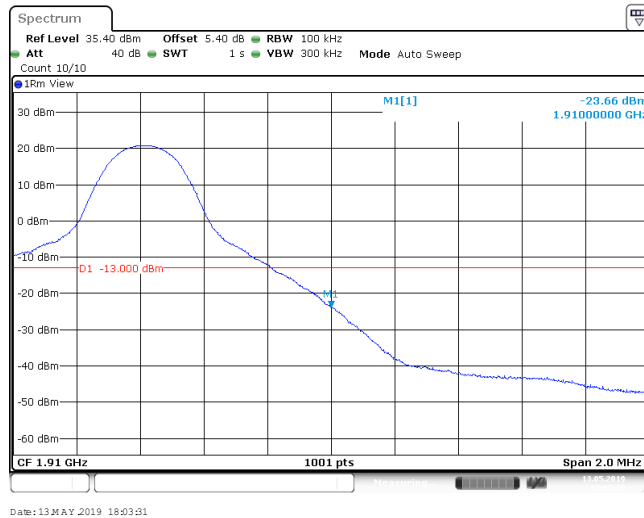
Band2_10MHz_QPSK_18650_1RB#0



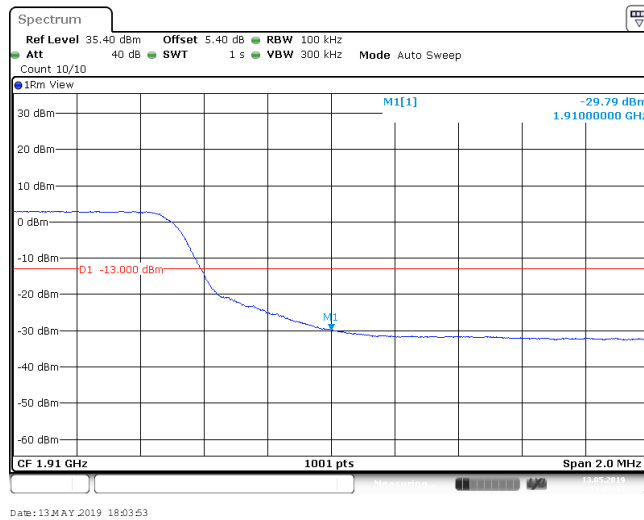
Band2_10MHz_QPSK_18650_50RB#0



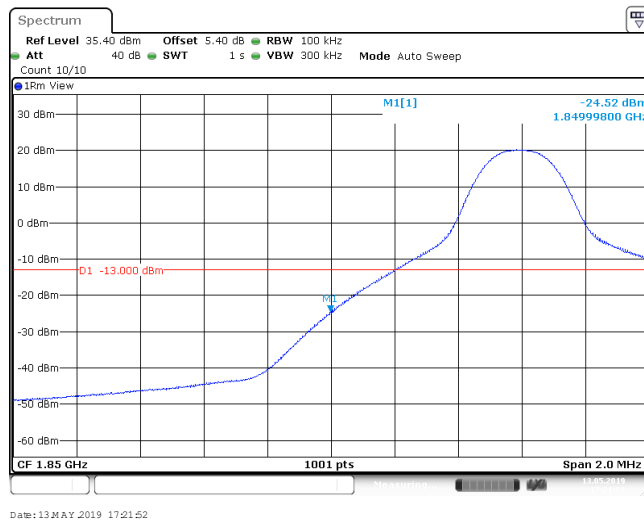
Band2_10MHz_QPSK_19150_1RB#49



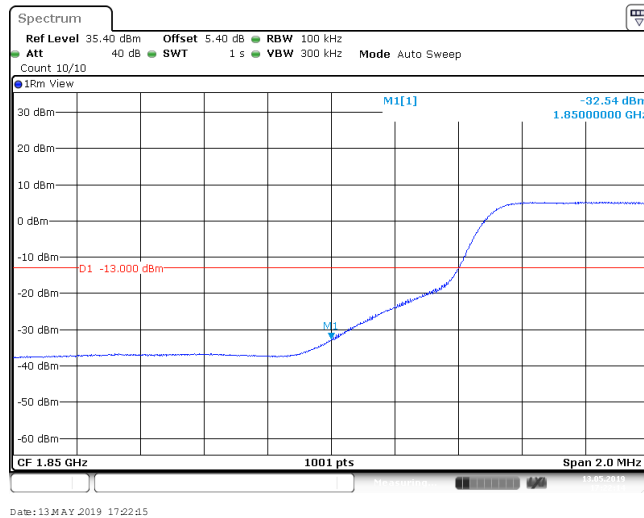
Band2_10MHz_QPSK_19150_50RB#0



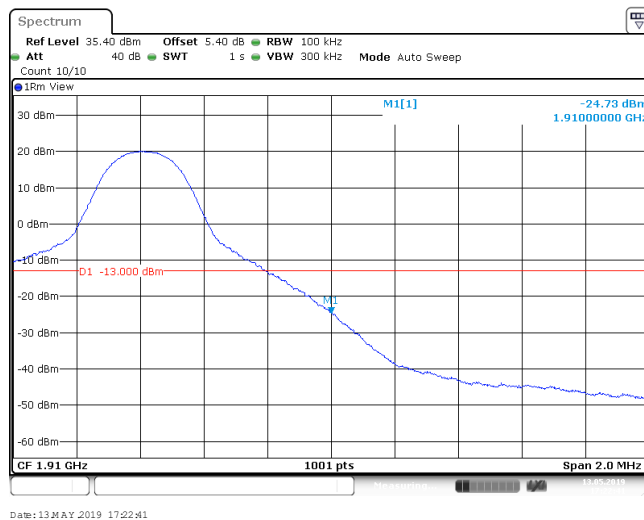
Band2_10MHz_16QAM_18650_1RB#0



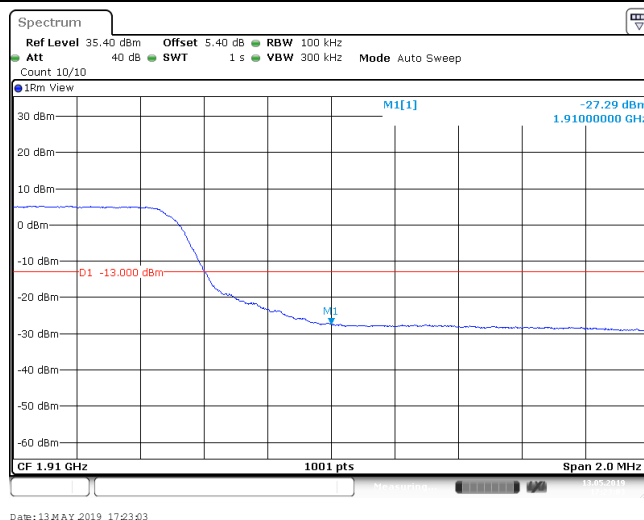
Band2_10MHz_16QAM_18650_27RB#0



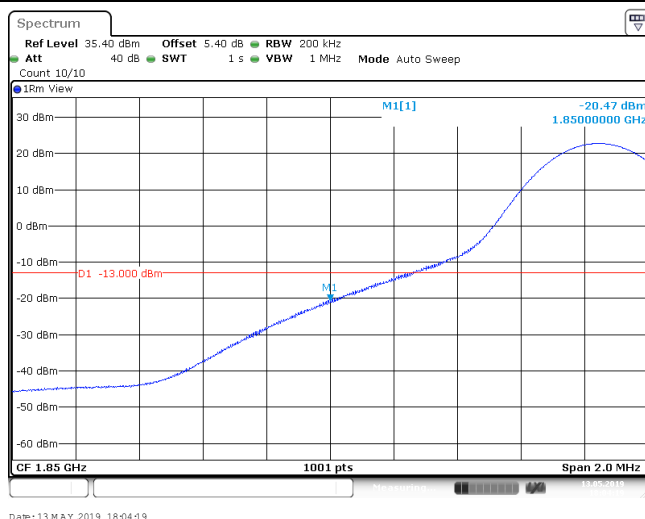
Band2_10MHz_16QAM_19150_1RB#49



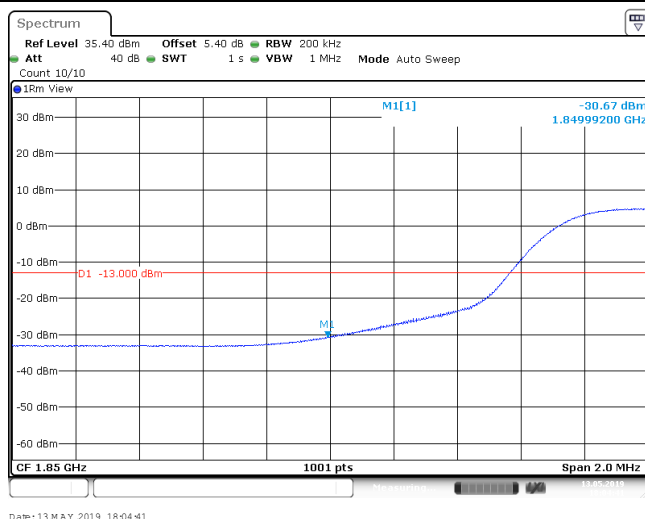
Band2_10MHz_16QAM_19150_27RB#23



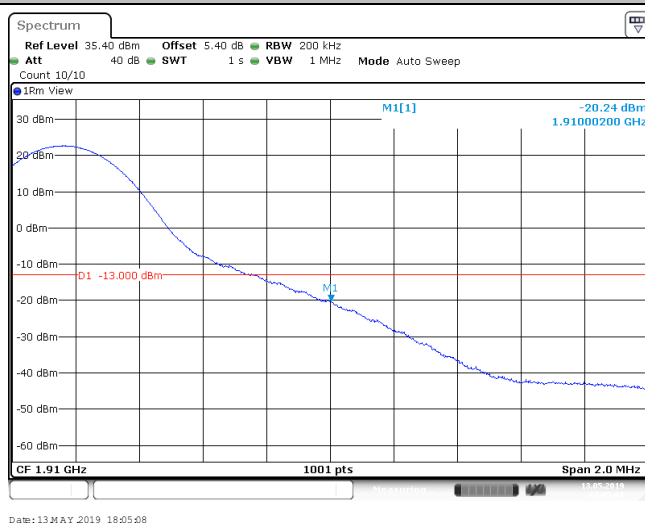
Band2_15MHz_QPSK_18675_1RB#0



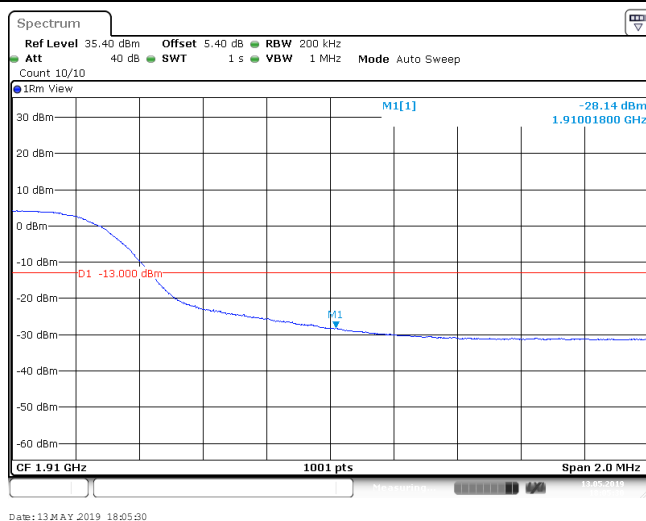
Band2_15MHz_QPSK_18675_75RB#0



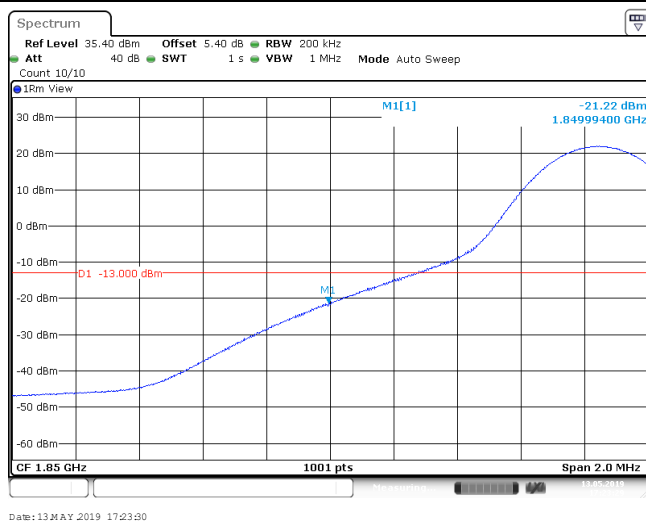
Band2_15MHz_QPSK_19125_1RB#74



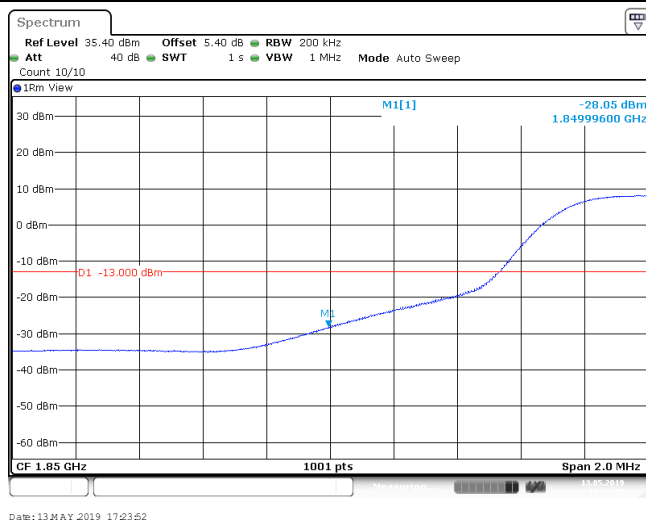
Band2_15MHz_QPSK_19125_75RB#0



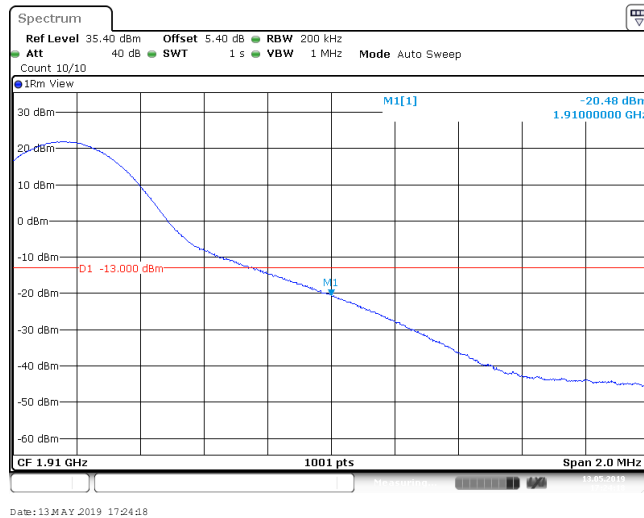
Band2_15MHz_16QAM_18675_1RB#0



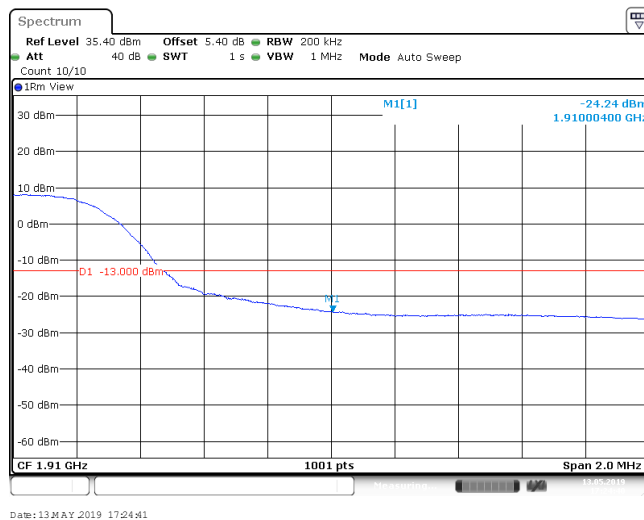
Band2_15MHz_16QAM_18675_27RB#0



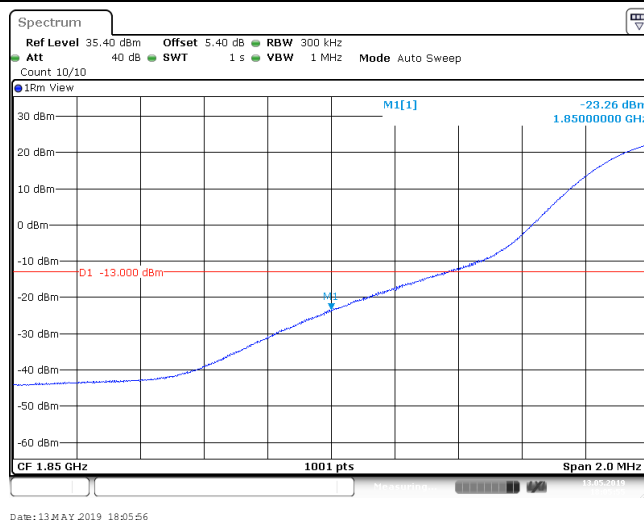
Band2_15MHz_16QAM_19125_1RB#74



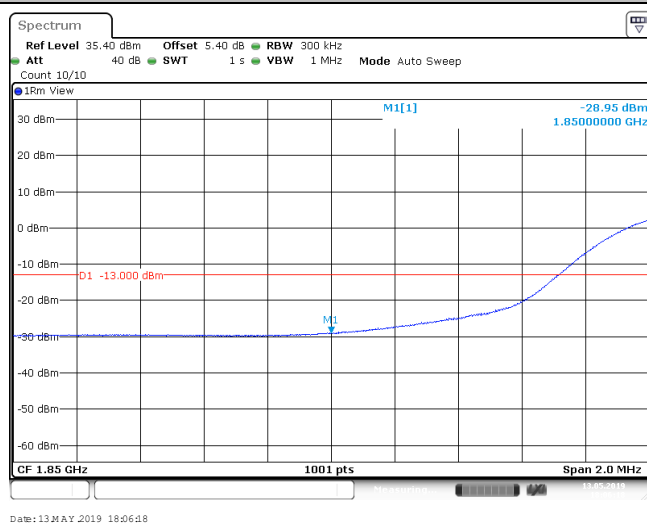
Band2_15MHz_16QAM_19125_27RB#48



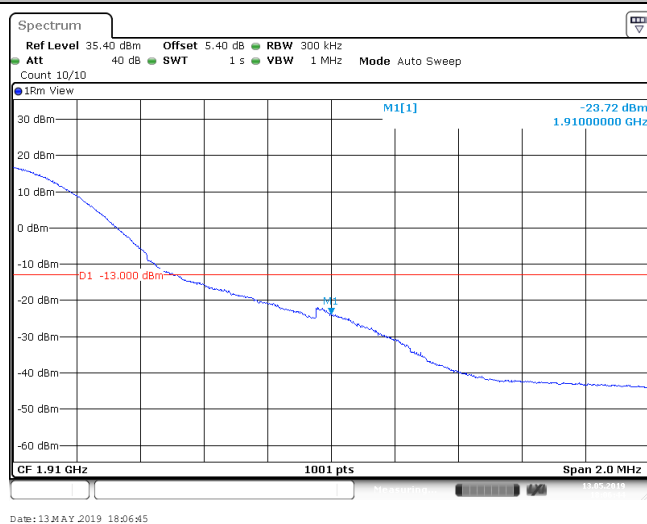
Band2_20MHz_QPSK_18700_1RB#0



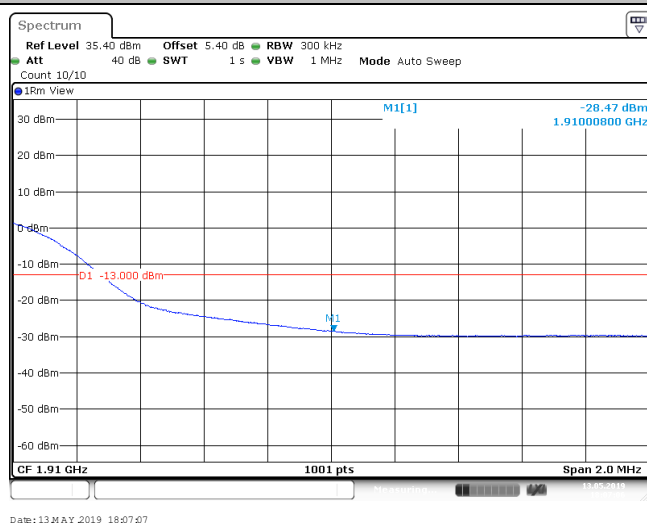
Band2_20MHz_QPSK_18700_100RB#0



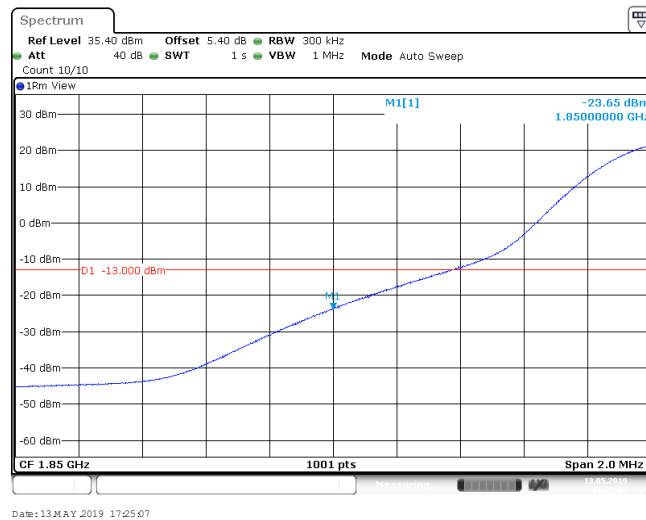
Band2_20MHz_QPSK_19100_1RB#99



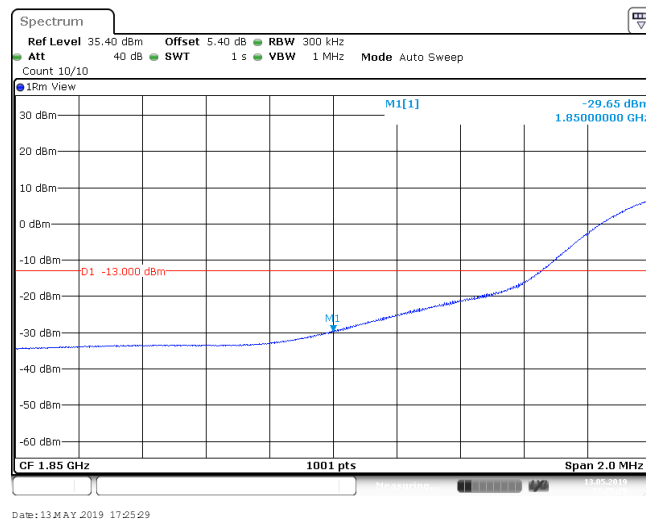
Band2_20MHz_QPSK_19100_100RB#0



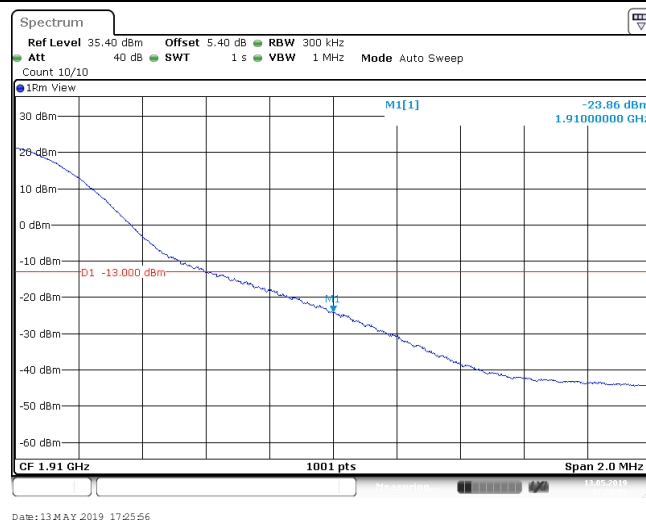
Band2_20MHz_16QAM_18700_1RB#0

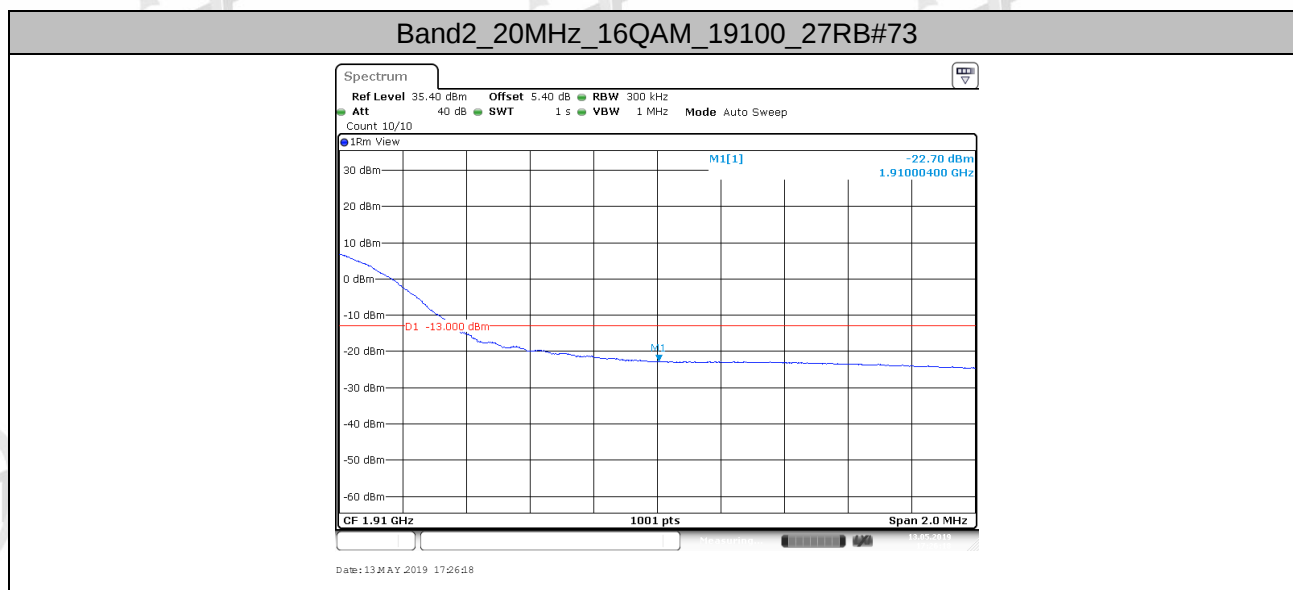


Band2_20MHz_16QAM_18700_27RB#0



Band2_20MHz_16QAM_19100_1RB#99



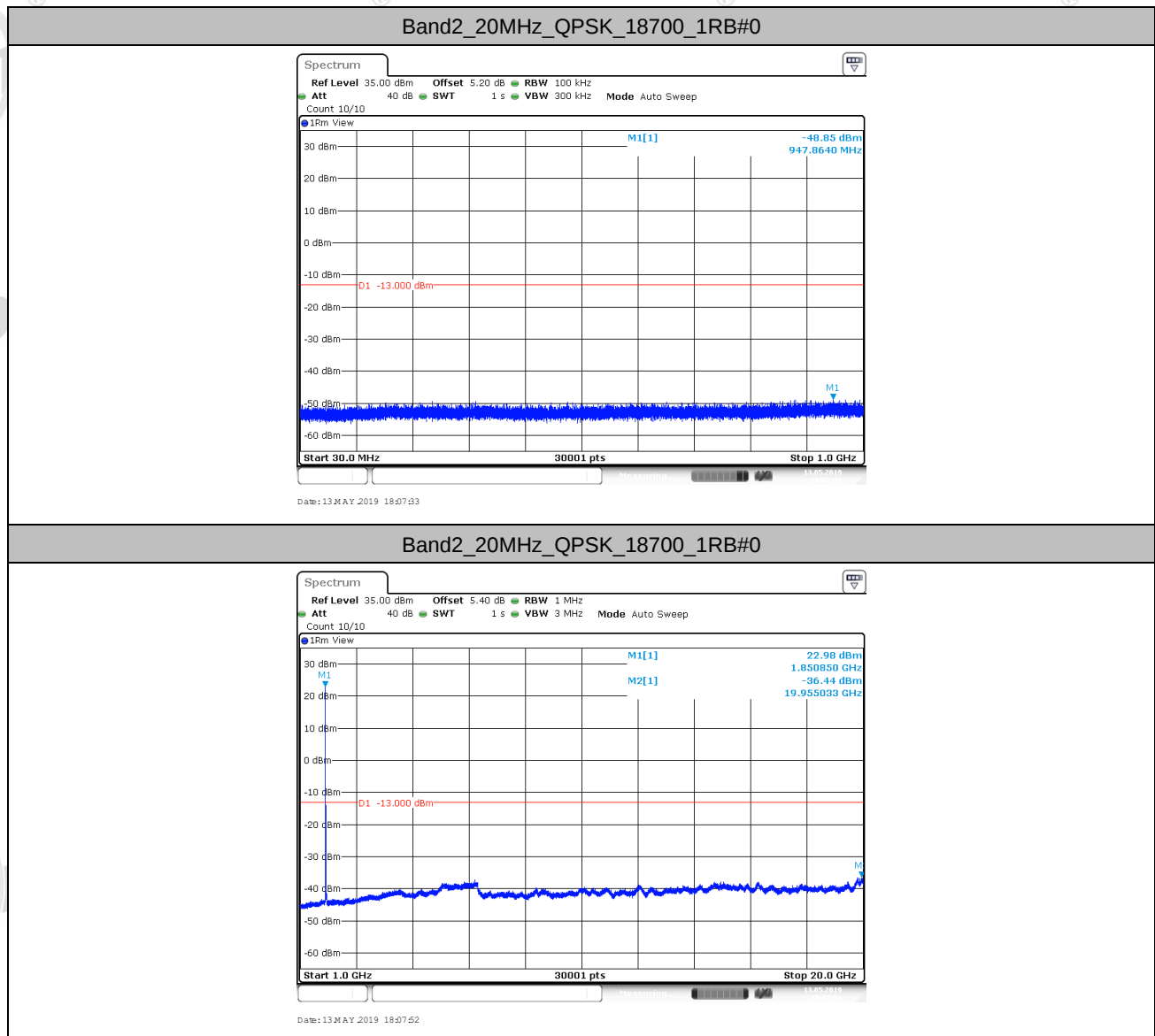


8. Spurious Emission at Antenna Terminal

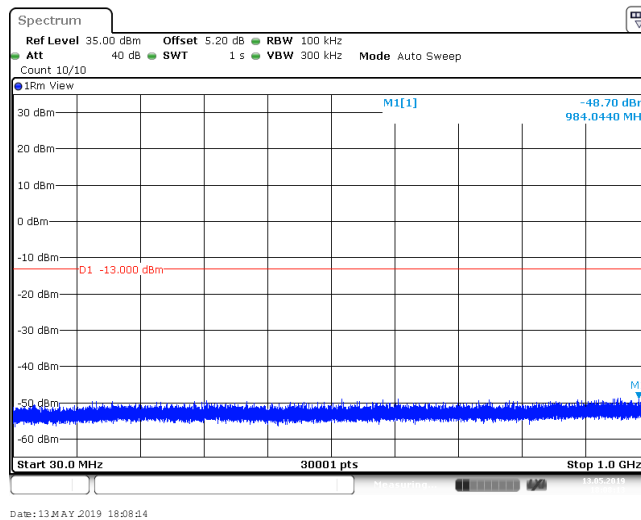
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

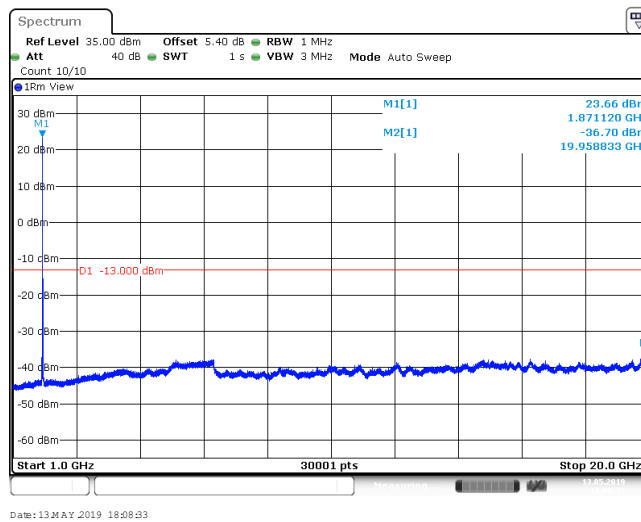
8.1. Test Plots



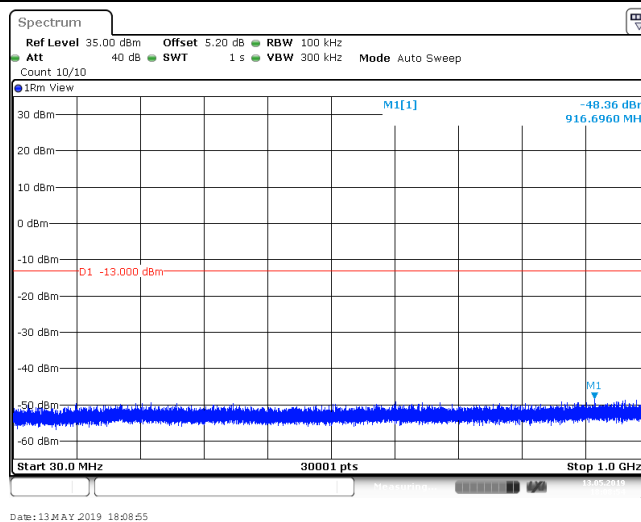
Band2_20MHz_QPSK_18900_1RB#0



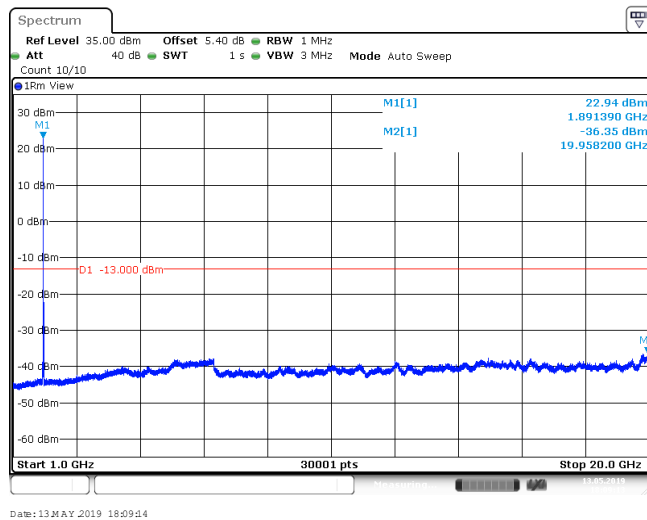
Band2_20MHz_QPSK_18900_1RB#0



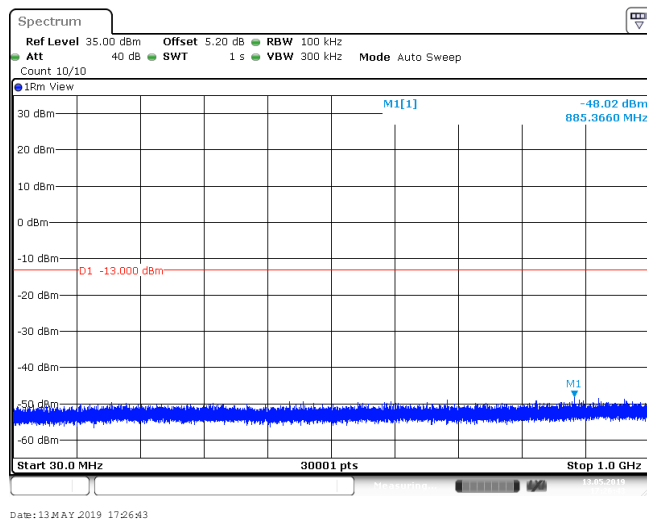
Band2_20MHz_QPSK_19100_1RB#0



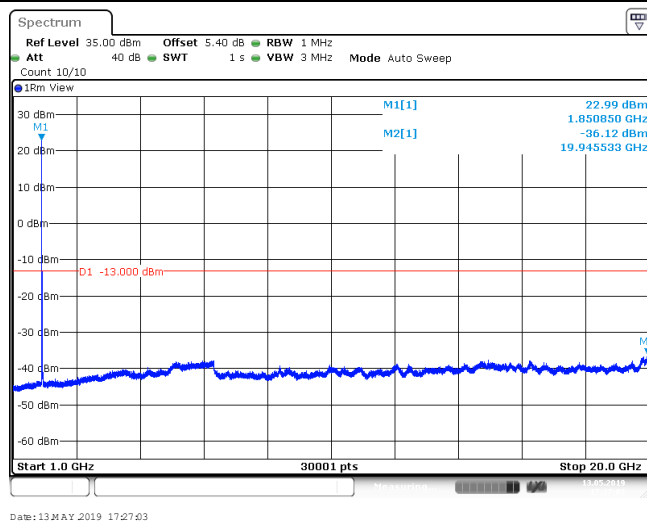
Band2_20MHz_QPSK_19100_1RB#0



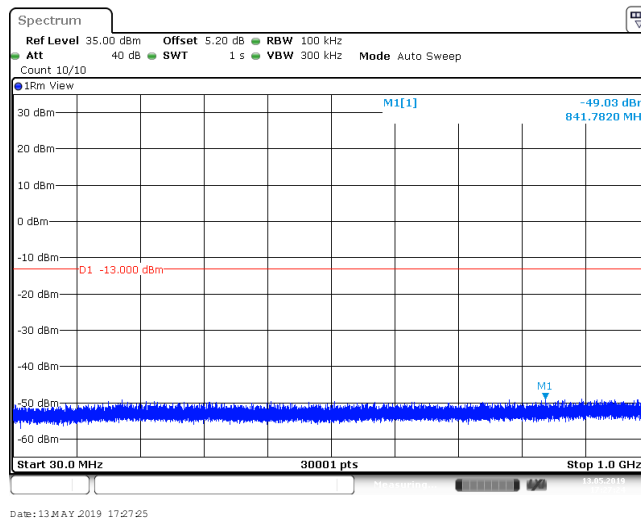
Band2_20MHz_16QAM_18700_1RB#0



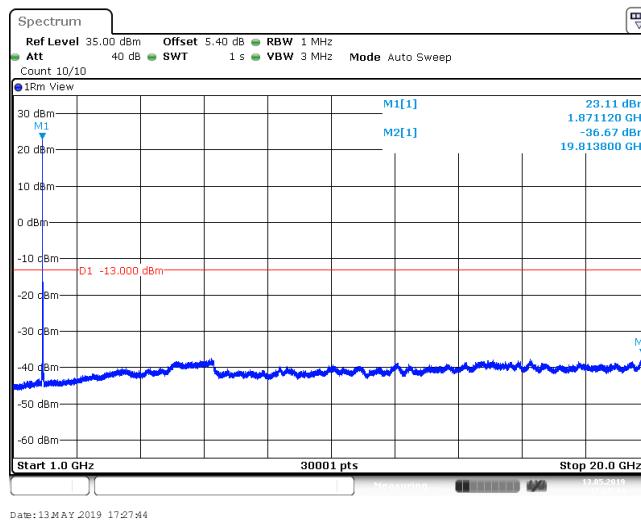
Band2_20MHz_16QAM_18700_1RB#0



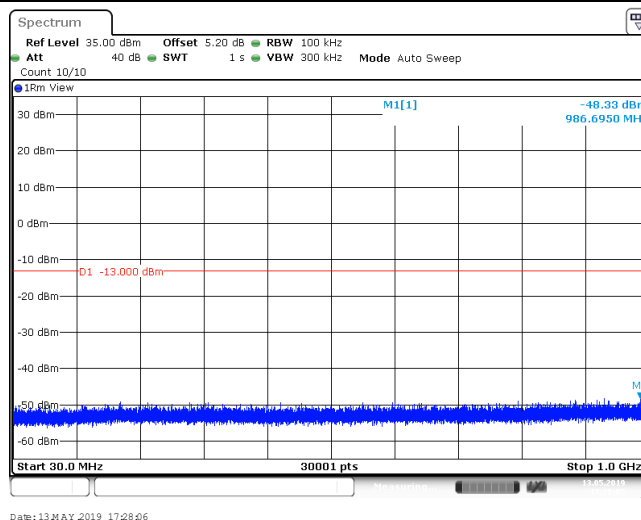
Band2_20MHz_16QAM_18900_1RB#0

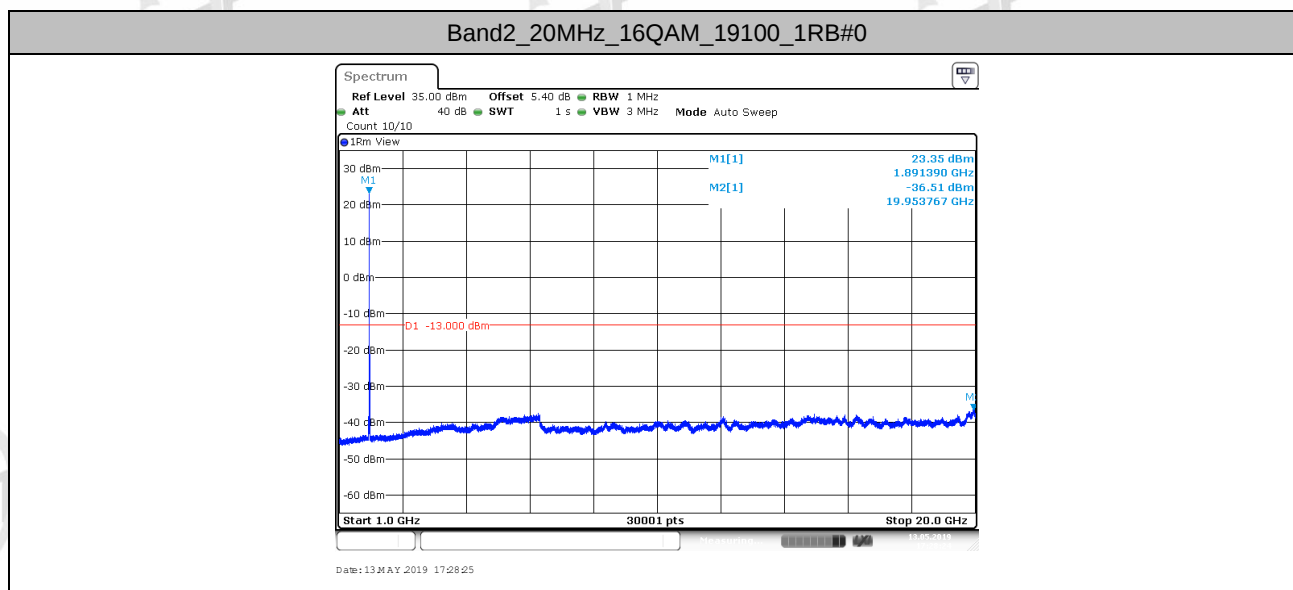


Band2_20MHz_16QAM_18900_1RB#0



Band2_20MHz_16QAM_19100_1RB#0





9. Frequency Stability

9.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	6.10	0.003280	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	3.50	0.001882	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	-7.90	-0.004247	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-3.10	-0.001649	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-0.80	-0.000426	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-6.30	-0.003351	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	8.10	0.004263	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	5.00	0.002632	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	6.70	0.003526	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	VL	NT	-2.80	-0.001505	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	VN	NT	4.00	0.002151	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	VH	NT	-3.00	-0.001613	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	VL	NT	-8.70	-0.004628	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	VN	NT	-8.90	-0.004734	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	VH	NT	6.50	0.003457	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	VL	NT	-0.50	-0.000263	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	VN	NT	6.10	0.003211	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	VH	NT	-6.50	-0.003421	±2.5	PASS

9.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	3.60	0.001935	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	0.40	0.000215	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	-2.20	-0.001183	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	2.40	0.001290	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	7.70	0.004140	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-5.70	-0.003065	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	-6.30	-0.003387	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	6.20	0.003333	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-7.50	-0.003989	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.80	-0.000957	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-2.80	-0.001489	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-9.10	-0.004840	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	8.20	0.004362	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-10.20	-0.005426	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	6.20	0.003298	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-4.20	-0.002234	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-6.90	-0.003632	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	3.90	0.002053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-10.00	-0.005263	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-2.90	-0.001526	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	3.20	0.001684	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	6.80	0.003579	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	1.80	0.000947	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	6.00	0.003158	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	-30	-4.40	-0.002366	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	-20	-5.20	-0.002796	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	0	-9.10	-0.004892	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	10	-4.40	-0.002366	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	20	0.30	0.000161	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	30	3.10	0.001667	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	40	-8.30	-0.004462	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	50	2.20	0.001183	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	-30	-10.20	-0.005426	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	-20	5.10	0.002713	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	0	5.90	0.003138	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	10	8.30	0.004415	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	20	6.60	0.003511	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	30	-8.10	-0.004309	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	40	-7.90	-0.004202	±2.5	PASS

Band2	20MHz	16QAM	18900	27RB#0	NV	50	-6.60	-0.003511	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	-30	-4.20	-0.002211	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	-20	3.30	0.001737	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	0	3.90	0.002053	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	10	2.70	0.001421	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	20	5.10	0.002684	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	30	6.80	0.003579	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	40	-9.30	-0.004895	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	50	-5.90	-0.003105	±2.5	PASS

The End