

FCC Test Report

Application Purpose : Original grant
Applicant Name: : TECNO MOBILE LIMITED
FCC ID : 2ADYY-W5
Equipment Type : Mobile phone
Model Name : W5
Report Number : FCC16083895A-5
Standard(S) : FCC Part 22H&24E&27 Rules
Date Of Receipt : August 11, 2016
Date Of Issue : September 09, 2016

Test By



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Reviewed By



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Authorized by



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Prepared by

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518000China.

Registration Number: 588523

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	September 09, 2016	Valid	Original Report
V1.1	/	October 08, 2016	Valid	Original Report

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1 BAND EDGE

1.1 Measurement Result

GSM850:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgement
Low Range	0.2	128	824.2	Pass
High Range	0.2	251	848.8	Pass

PCS 1900:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgement
Low Range	0.2	512	1850.2	Pass
High Range	0.2	810	1909.8	Pass

UTRA BANDS

BAND 2:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgement
Low Range	5	9262	1852.4	Pass
High Range	5	9538	1907.6	Pass

BAND 5:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgement
Low Range	5	4132	826.4	Pass
High Range	5	4233	846.6	Pass

E-UTRA**BAND 2:**

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1.4	18607	1850.7	QPSK	6	LOW	Pass
1.4	18607	1850.7	Q16	6	LOW	Pass
1.4	19193	1909.3	QPSK	6	LOW	Pass
1.4	19193	1909.3	Q16	6	LOW	Pass
3	18615	1851.5	QPSK	15	LOW	Pass
3	18615	1851.5	Q16	15	LOW	Pass
3	19185	1908.5	QPSK	15	LOW	Pass
3	19185	1908.5	Q16	15	LOW	Pass
5	18625	1852.5	QPSK	25	LOW	Pass
5	18625	1852.5	Q16	25	LOW	Pass
5	19175	1907.5	QPSK	25	LOW	Pass
5	19175	1907.5	Q16	25	LOW	Pass
10	18650	1855	QPSK	50	LOW	Pass
10	18650	1855	Q16	50	LOW	Pass
10	19150	1905	QPSK	50	LOW	Pass
10	19150	1905	Q16	50	LOW	Pass
15	18675	1857.5	QPSK	75	LOW	Pass
15	18675	1857.5	Q16	75	LOW	Pass
15	19125	1902.5	QPSK	75	LOW	Pass
15	19125	1902.5	Q16	75	LOW	Pass
20	18700	1860	QPSK	100	LOW	Pass
20	18700	1860	Q16	100	LOW	Pass
20	19100	1900	QPSK	100	LOW	Pass
20	19100	1900	Q16	100	LOW	Pass

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1.4	18607	1850.7	QPSK	6	LOW	Pass
1.4	18607	1850.7	Q16	6	LOW	Pass
1.4	19193	1909.3	QPSK	6	LOW	Pass
1.4	19193	1909.3	Q16	6	LOW	Pass
3	18615	1851.5	QPSK	15	LOW	Pass
3	18615	1851.5	Q16	15	LOW	Pass
3	19185	1908.5	QPSK	15	LOW	Pass
3	19185	1908.5	Q16	15	LOW	Pass
5	18625	1852.5	QPSK	25	LOW	Pass
5	18625	1852.5	Q16	25	LOW	Pass

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
5	19175	1907.5	QPSK	25	LOW	Pass
5	19175	1907.5	Q16	25	LOW	Pass
10	18650	1855	QPSK	50	LOW	Pass
10	18650	1855	Q16	50	LOW	Pass
10	19150	1905	QPSK	50	LOW	Pass
10	19150	1905	Q16	50	LOW	Pass
15	18675	1857.5	QPSK	75	LOW	Pass
15	18675	1857.5	Q16	75	LOW	Pass
15	19125	1902.5	QPSK	75	LOW	Pass
15	19125	1902.5	Q16	75	LOW	Pass
20	18700	1860	QPSK	100	LOW	Pass
20	18700	1860	Q16	100	LOW	Pass
20	19100	1900	QPSK	100	LOW	Pass
20	19100	1900	Q16	100	LOW	Pass

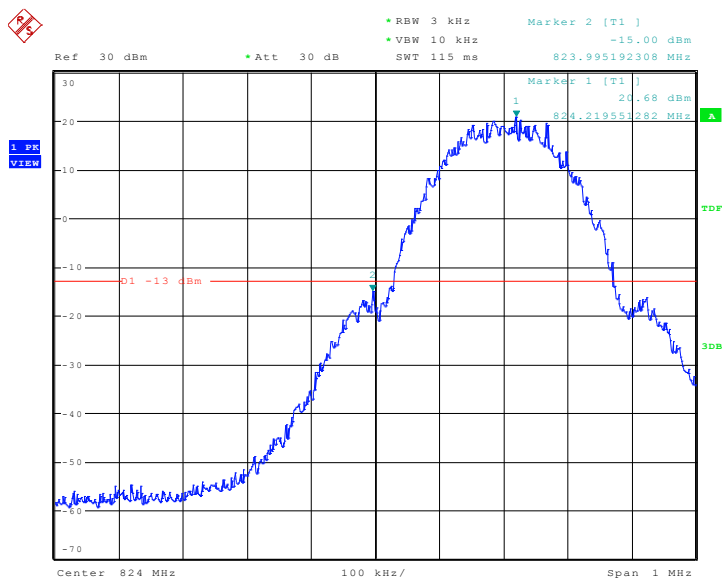
BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
5	20775	2502.5	QPSK	25	LOW	Pass
5	20775	2502.5	Q16	25	LOW	Pass
5	21425	2567.5	QPSK	25	LOW	Pass
5	21425	2567.5	Q16	25	LOW	Pass
10	20800	2505	QPSK	50	LOW	Pass
10	20800	2505	Q16	50	LOW	Pass
10	21400	2565	QPSK	50	LOW	Pass
10	21400	2565	Q16	50	LOW	Pass
15	20825	2507.5	QPSK	75	LOW	Pass
15	20825	2507.5	Q16	75	LOW	Pass
15	21375	2562.5	QPSK	75	LOW	Pass
15	21375	2562.5	Q16	75	LOW	Pass
20	20850	2510	QPSK	100	LOW	Pass
20	20850	2510	Q16	100	LOW	Pass
20	21350	2560	QPSK	100	LOW	Pass
20	21350	2560	Q16	100	LOW	Pass

1.2 Test Plot(s)

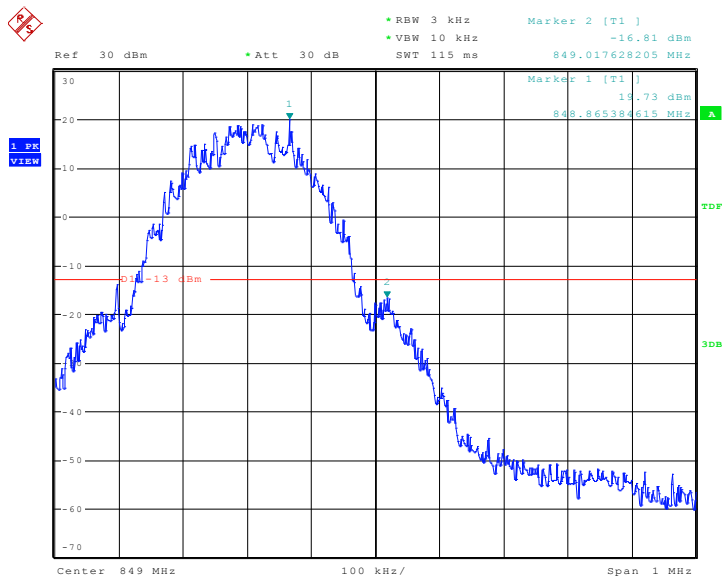
UTRA BANDS

Low Band Edge GSM 850 BAND CH 128



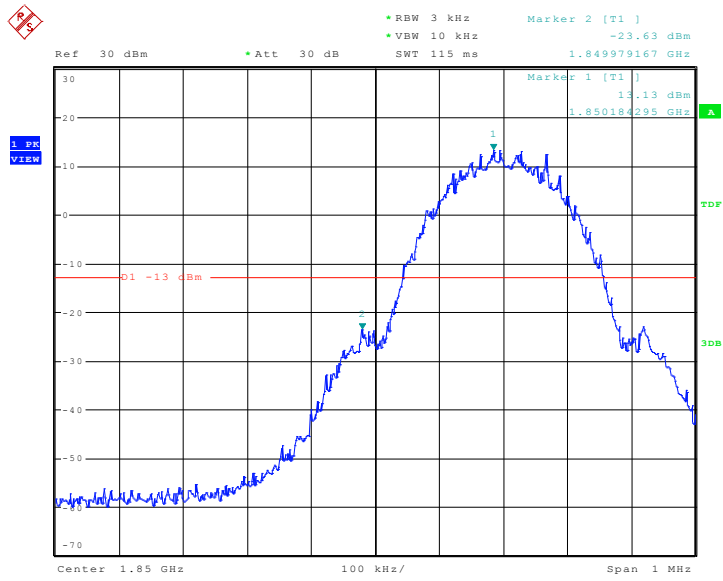
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High Band Edge GSM 850 BAND CH 251



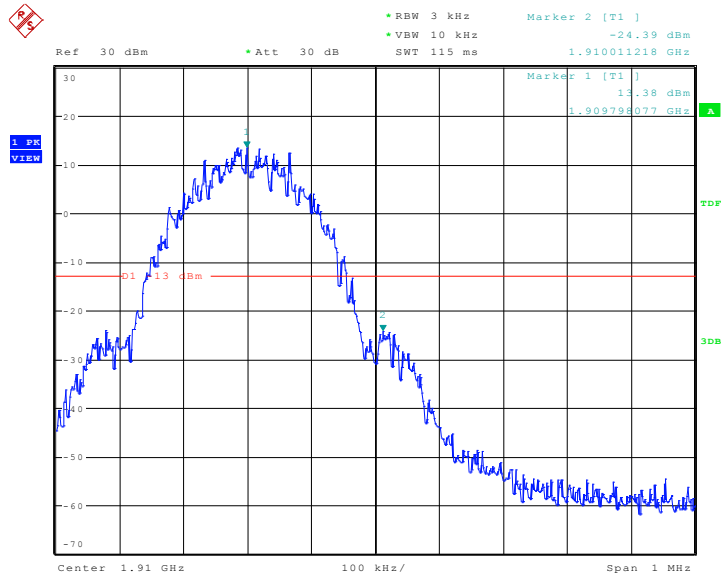
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Low Band Edge PCS 1900 BAND CH 512



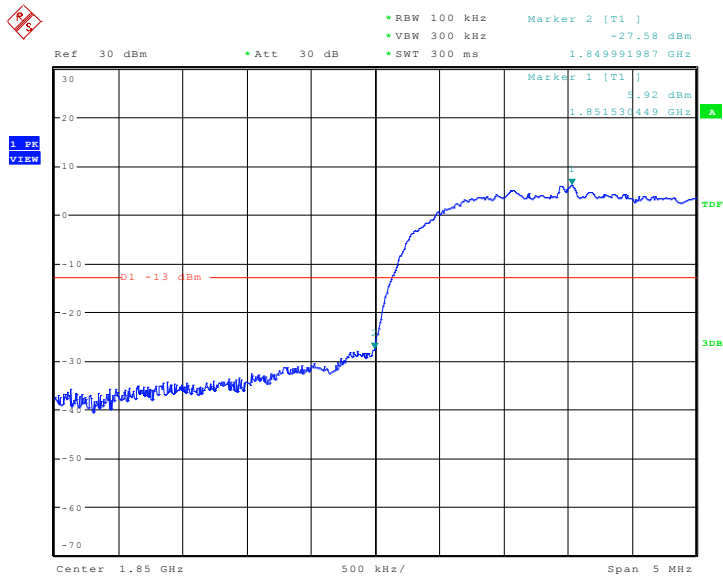
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High Band Edge PCS 1900 BAND CH 810



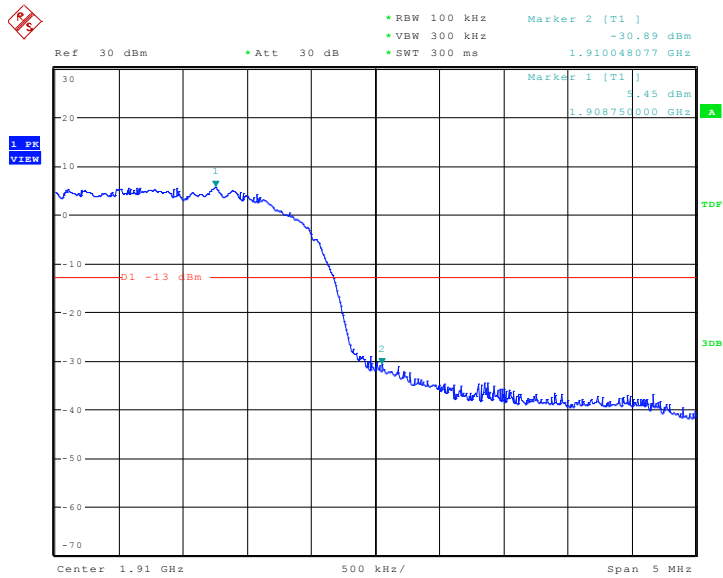
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Low Band Edge WCDMA BAND II CH 9263



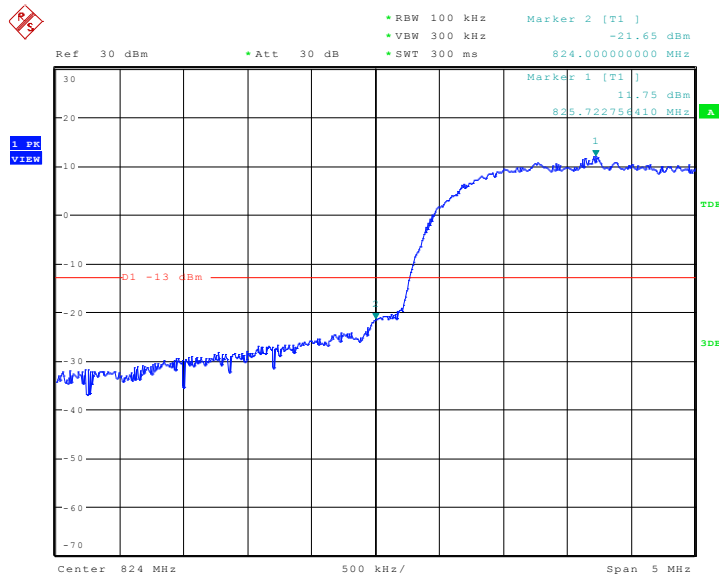
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High Band Edge WCDMA BAND II CH 9537



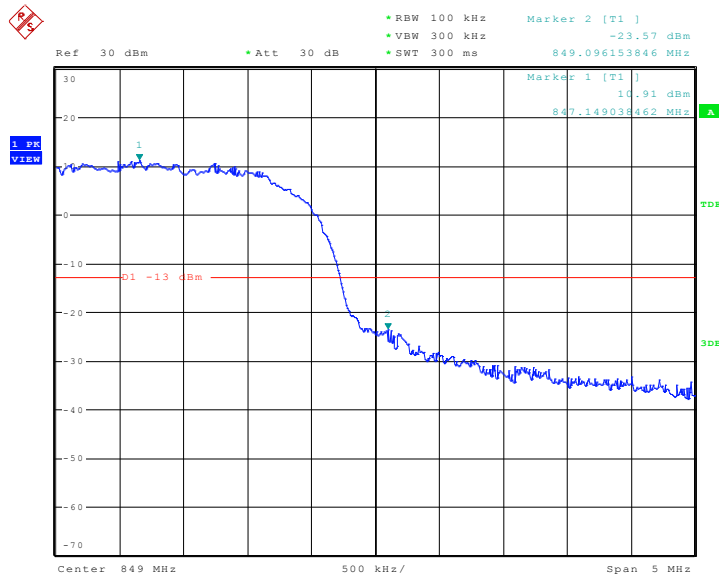
Date: 7.SEP.2016 11:46:20

Low Band Edge WCDMA BAND V CH 4133



Date: 7.SEP.2016 11:48:12

High Band Edge WCDMA BAND V CH 4232

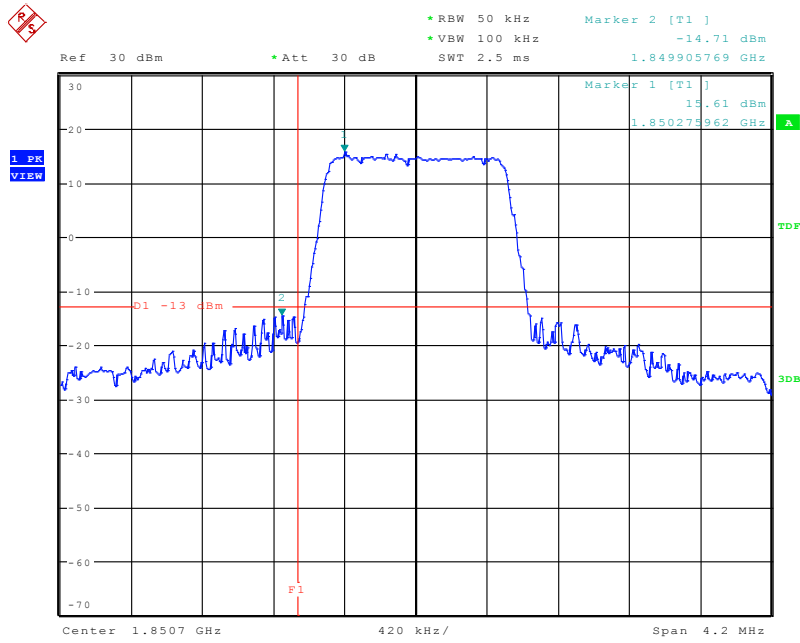


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E-UTRA BANDS

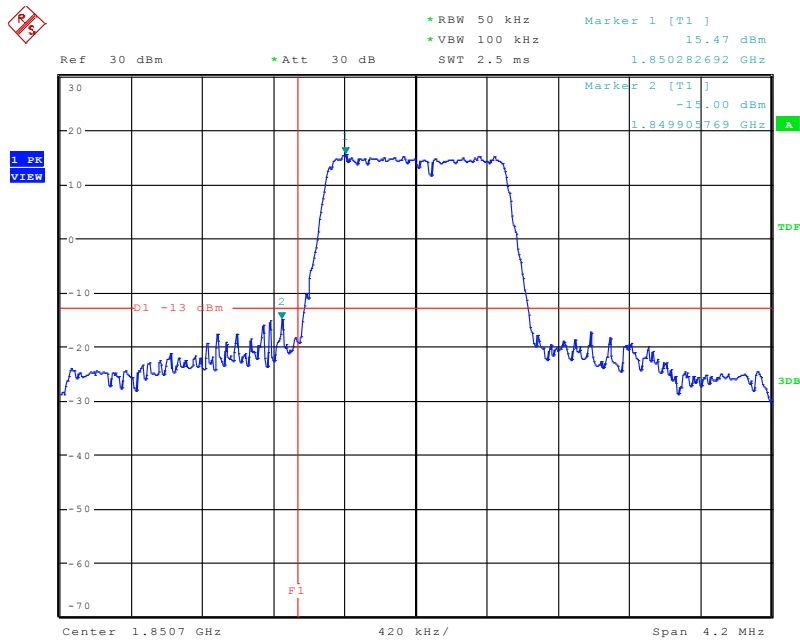
BAND 2@Band Edge

BAND2-1850.7MHz,QPSK-6RB_LOW@Pass



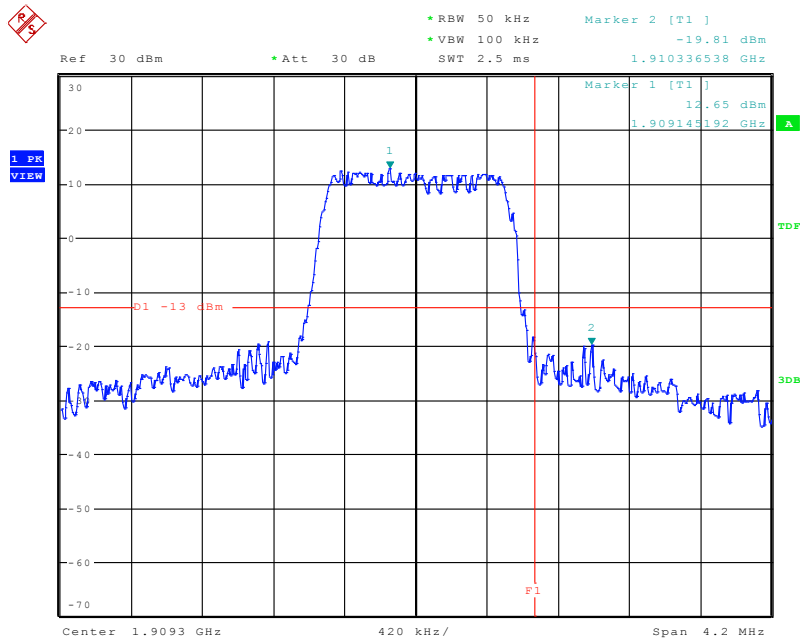
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BAND2-1850.7MHz,Q16-6RB_LOW@Pass



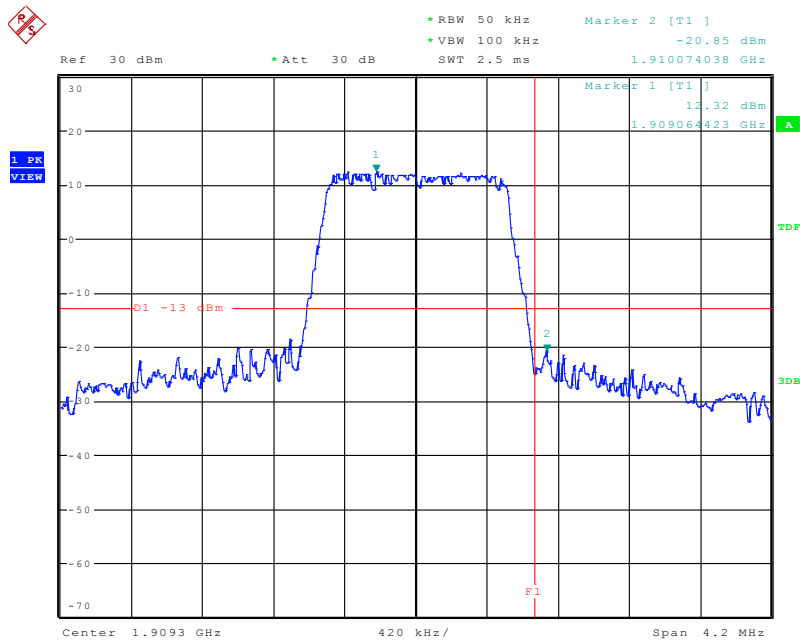
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BAND2-1909.3MHz,QPSK-6RB_LOW@Pass



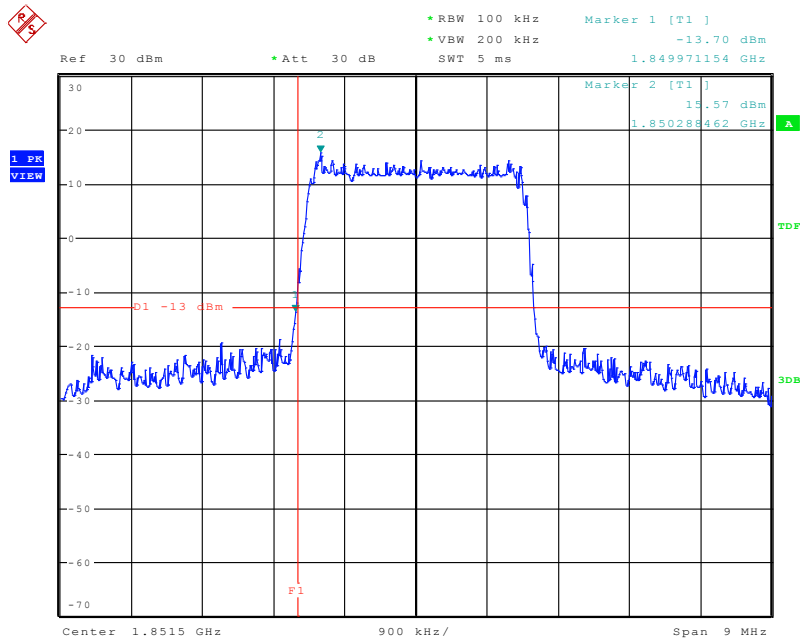
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BAND2-1909.3MHz,Q16-6RB_LOW@Pass



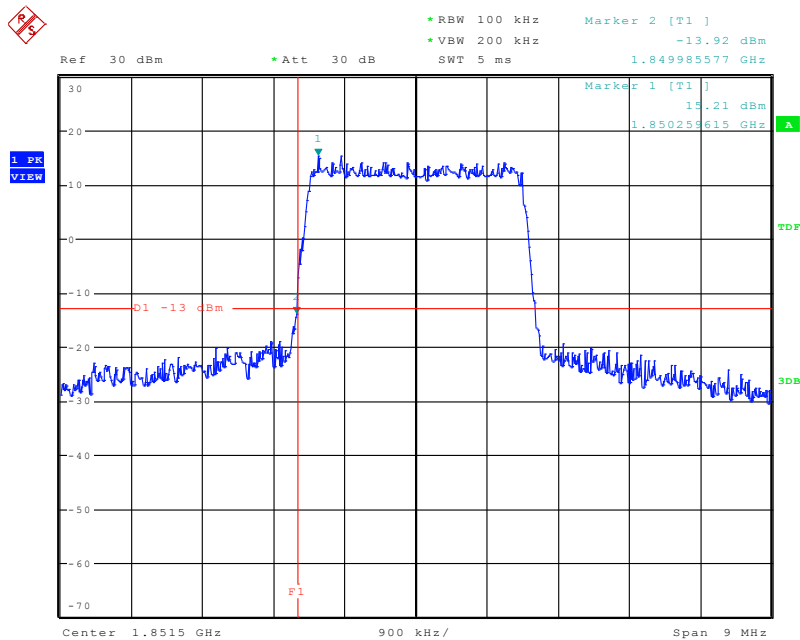
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BAND2-1851.5MHz,QPSK-15RB_LOW@Pass



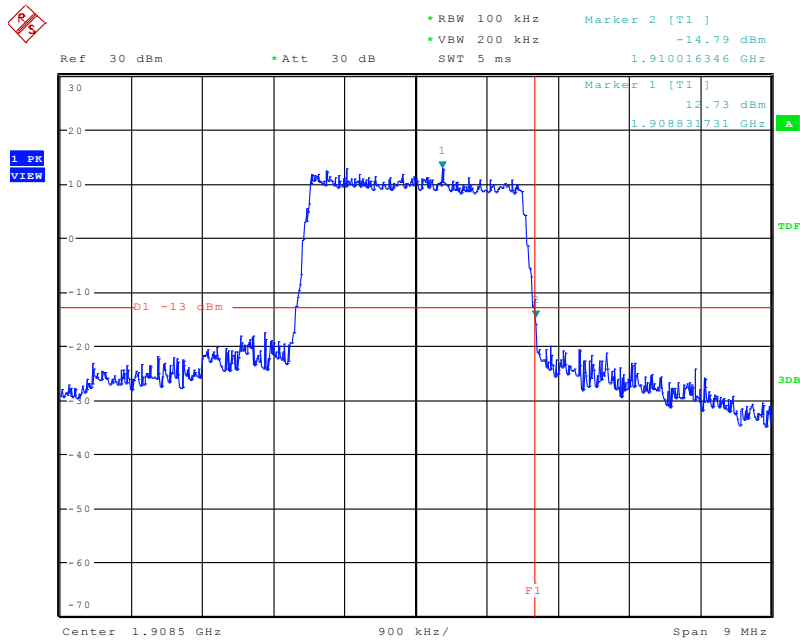
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BAND2-1851.5MHz,Q16-15RB_LOW@Pass



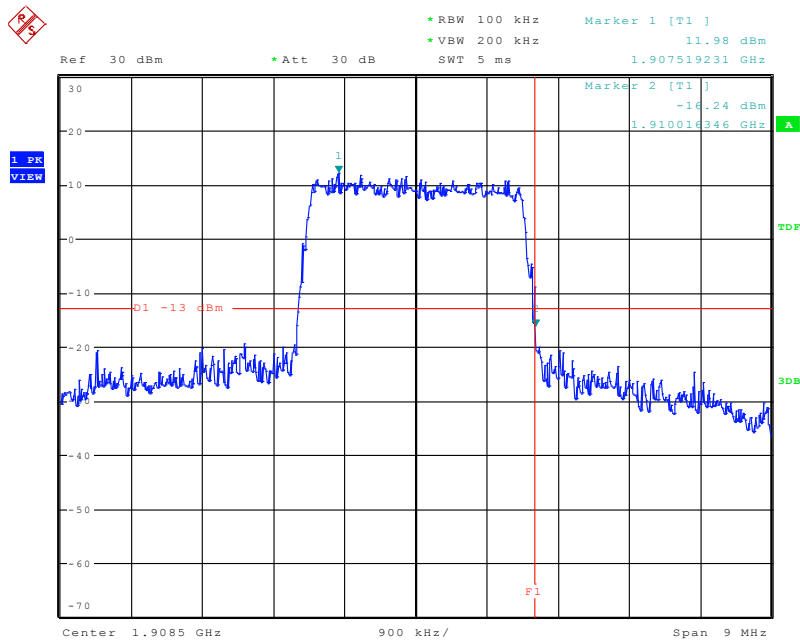
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BAND2-1908.5MHz,QPSK-15RB_LOW@Pass



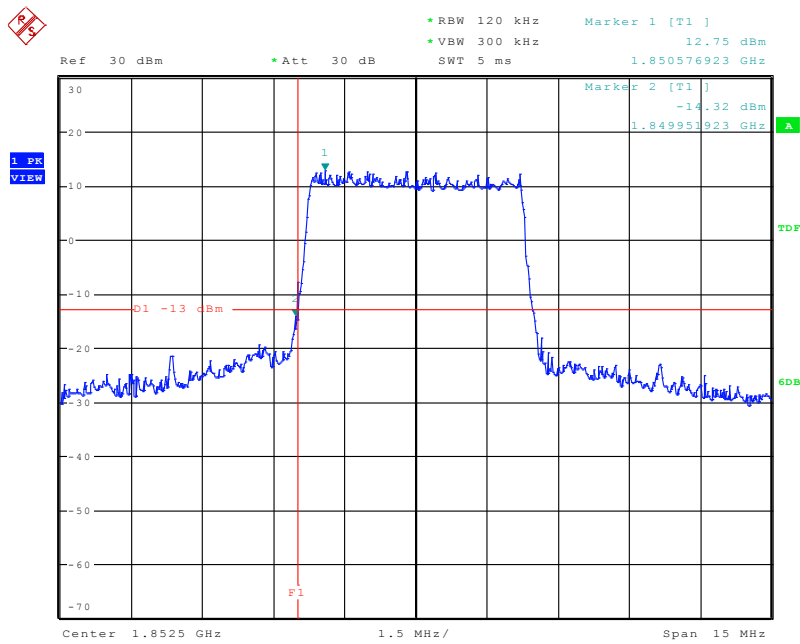
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BAND2-1908.5MHz,Q16-15RB_LOW@Pass



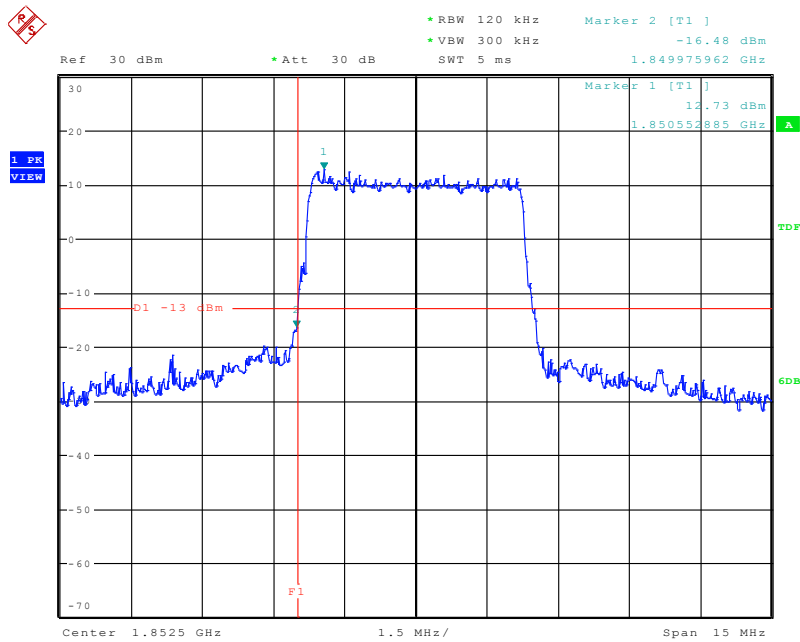
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BAND2-1852.5MHz,QPSK-25RB_LOW@Pass



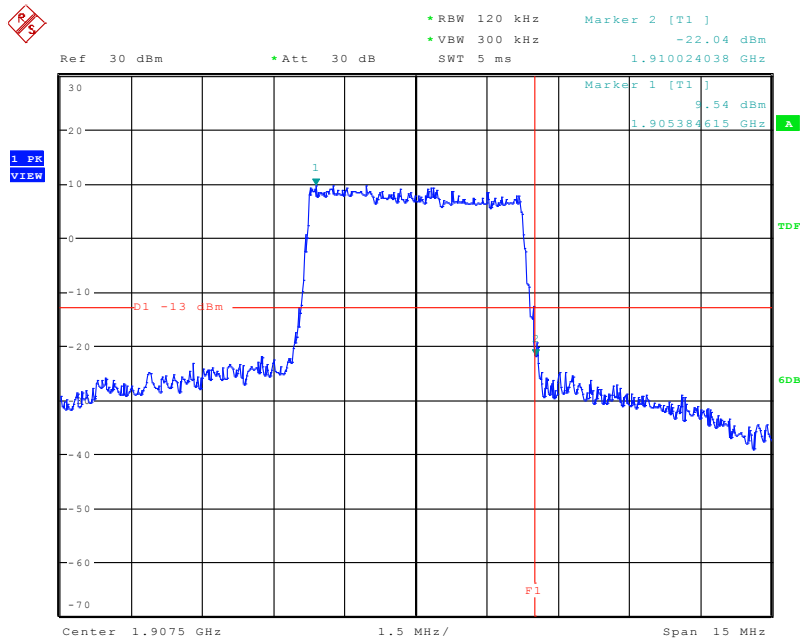
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BAND2-1852.5MHz,Q16-25RB_LOW@Pass



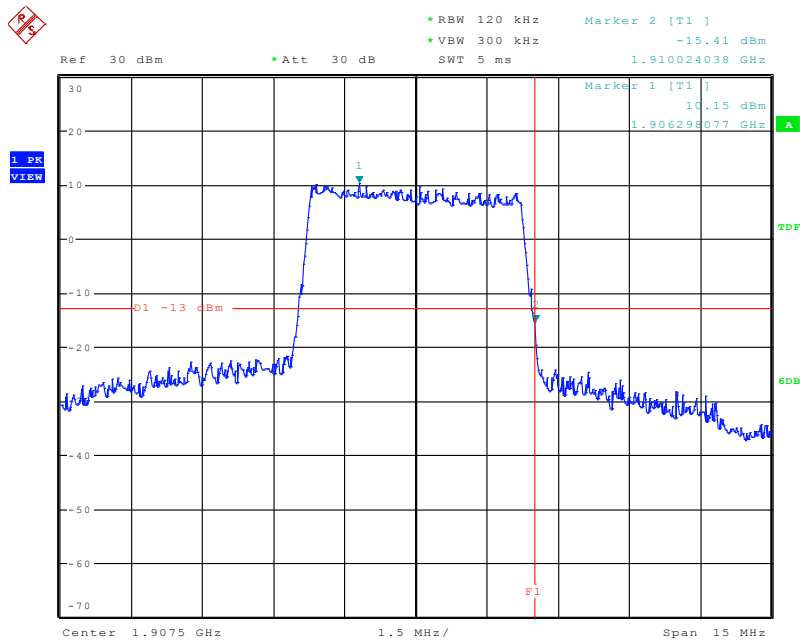
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BAND2-1907.5MHz,QPSK-25RB_LOW@Pass



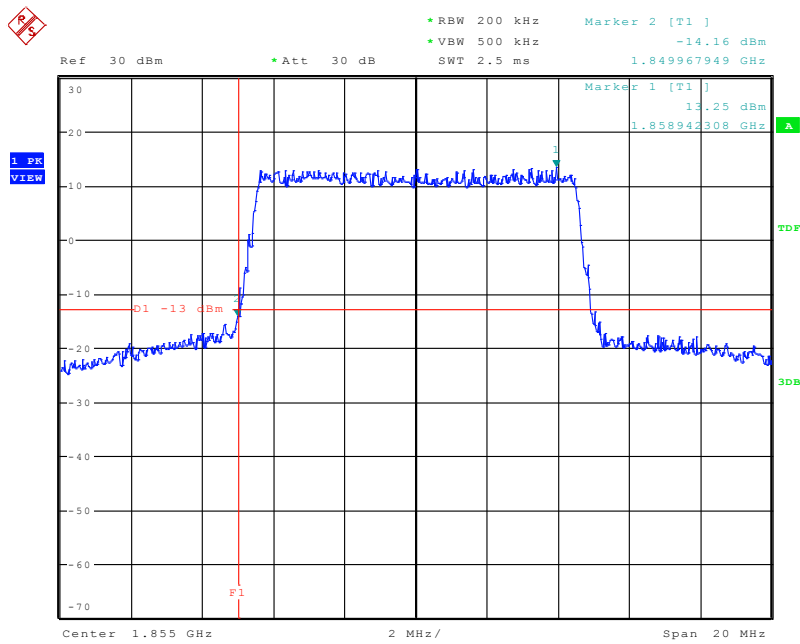
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BAND2-1907.5MHz,Q16-25RB_LOW@Pass



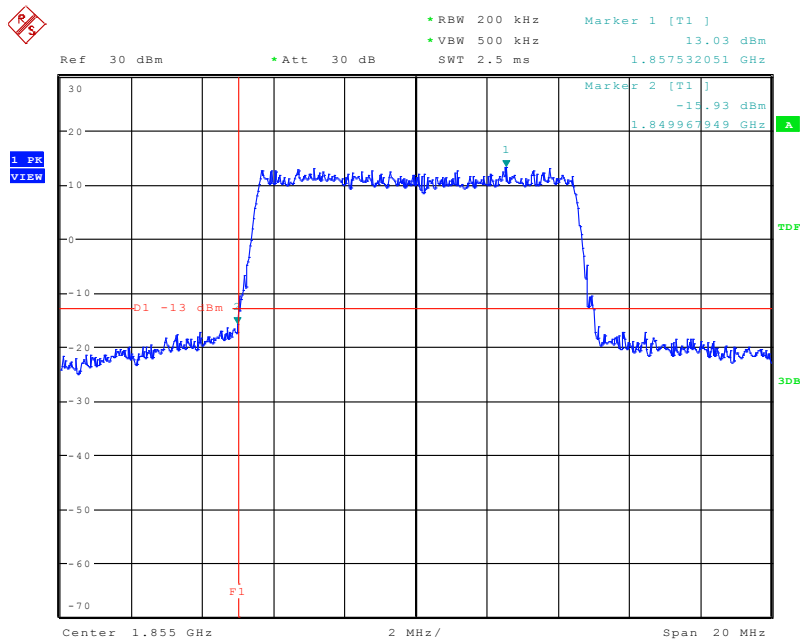
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BAND2-1855MHz,QPSK-50RB_LOW@Pass



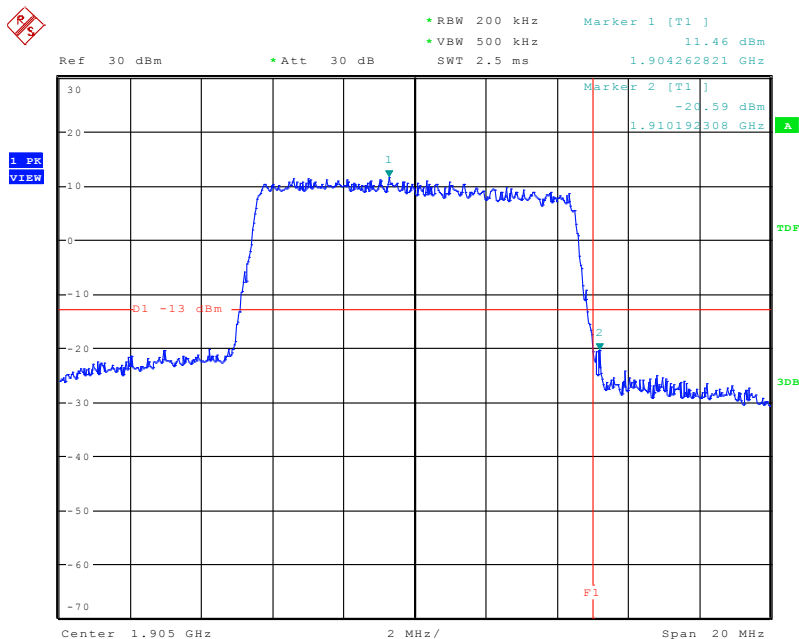
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BAND2-1855MHz,Q16-50RB_LOW@Pass



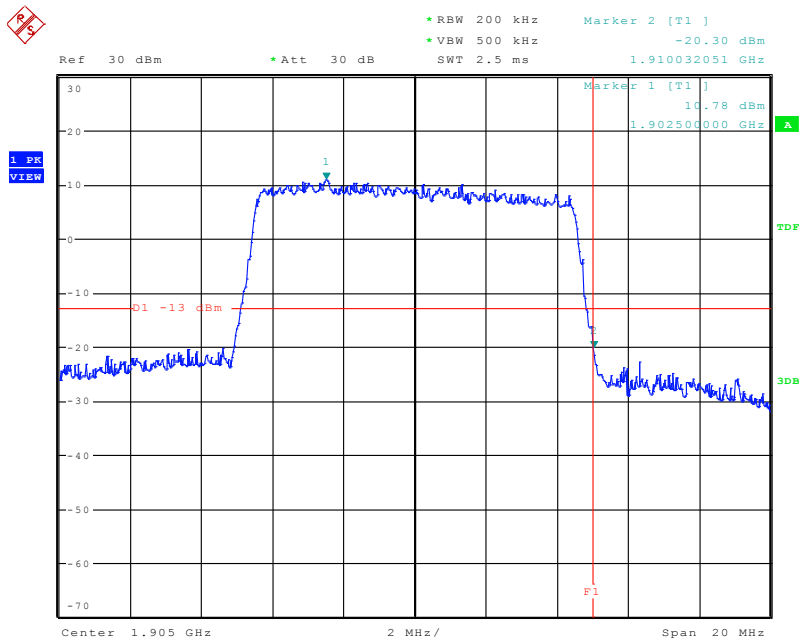
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BAND2-1905MHz,QPSK-50RB_LOW@Pass



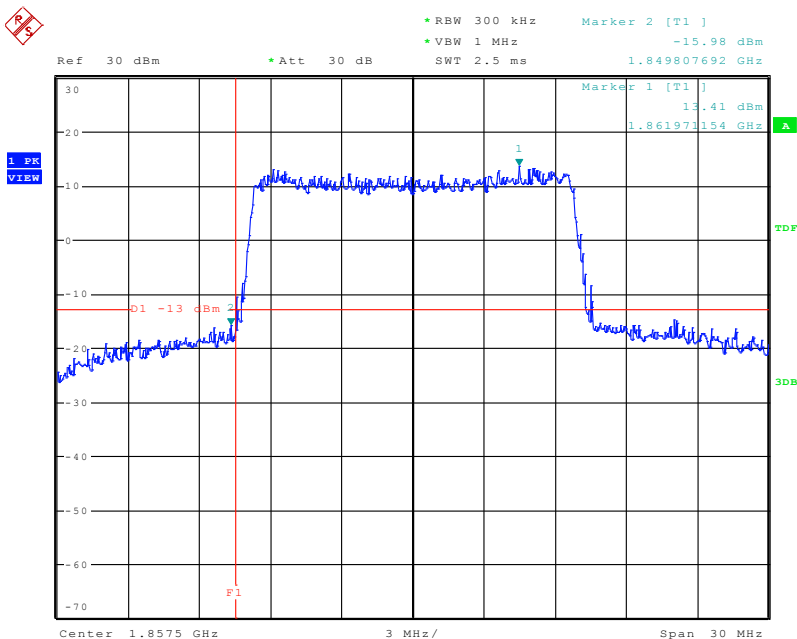
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BAND2-1905MHz,Q16-50RB_LOW@Pass



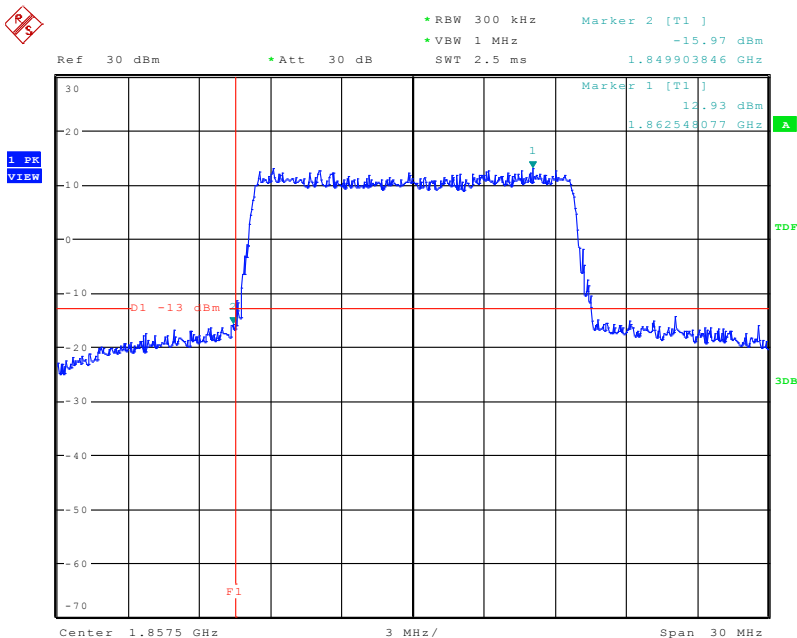
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BAND2-1857.5MHz,QPSK-75RB_LOW@Pass



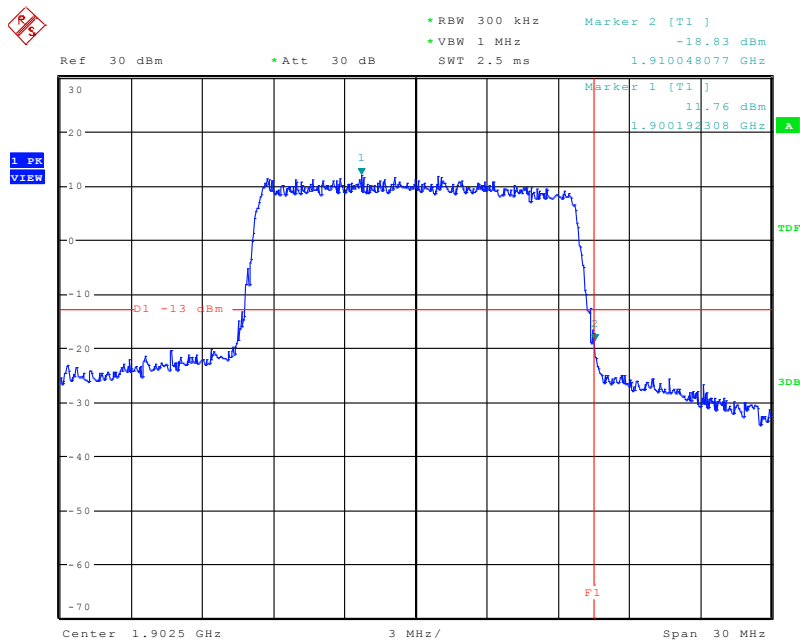
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BAND2-1857.5MHz,Q16-75RB_LOW@Pass



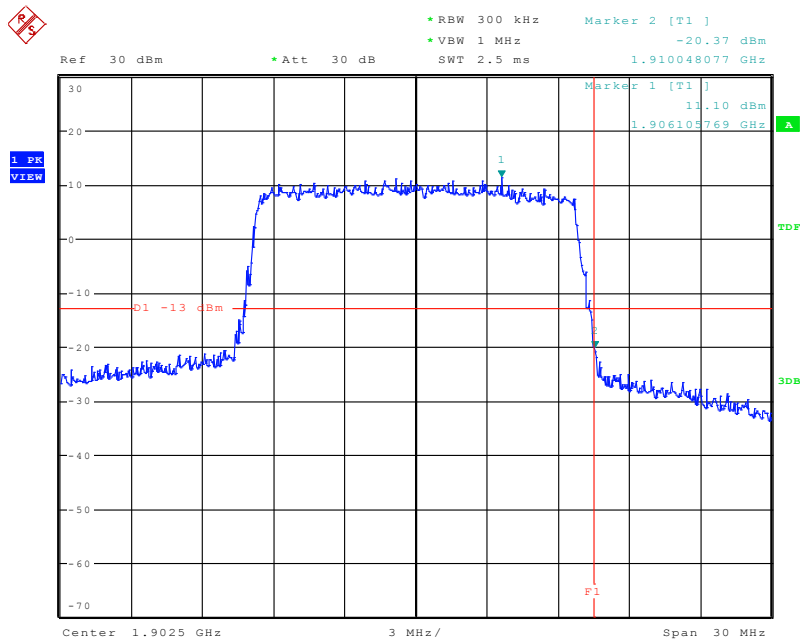
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BAND2-1902.5MHz,QPSK-75RB_LOW@Pass



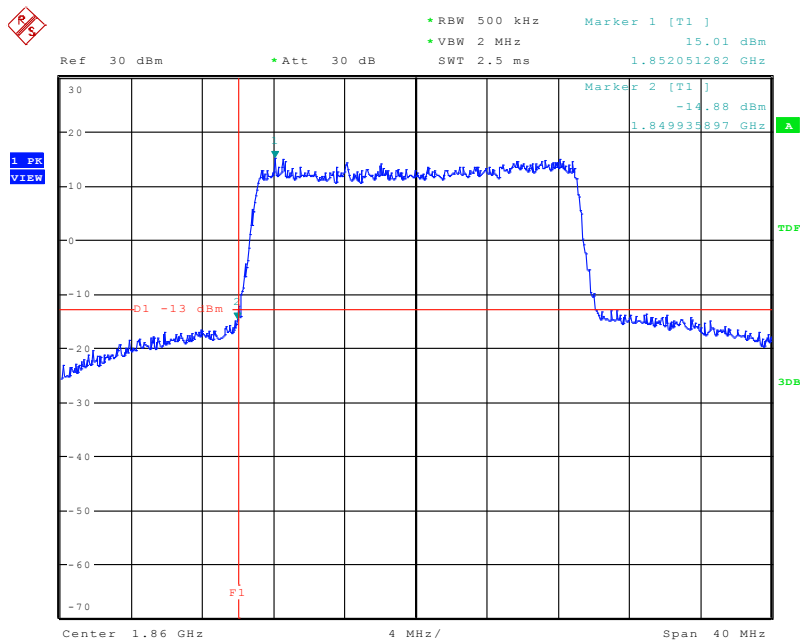
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BAND2-1902.5MHz,Q16-75RB_LOW@Pass



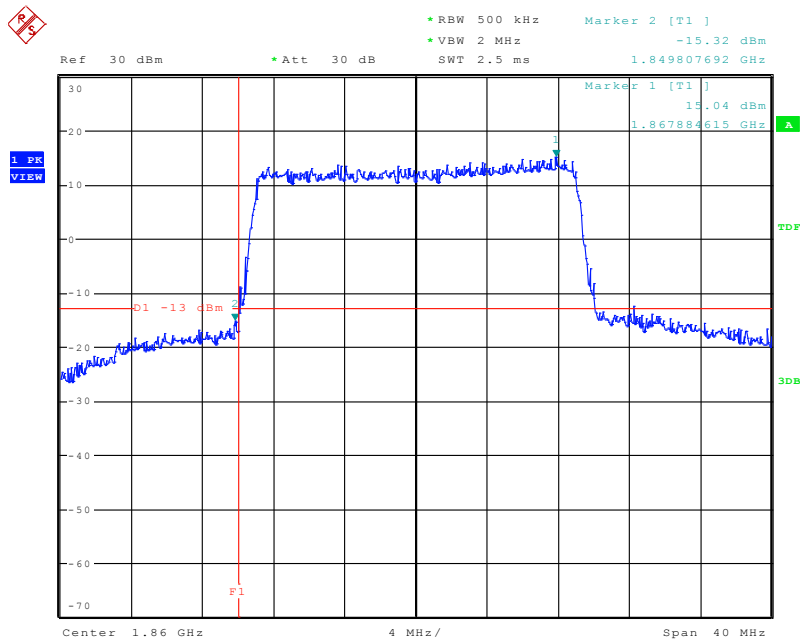
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BAND2-1860MHz,QPSK-100RB_LOW@Pass



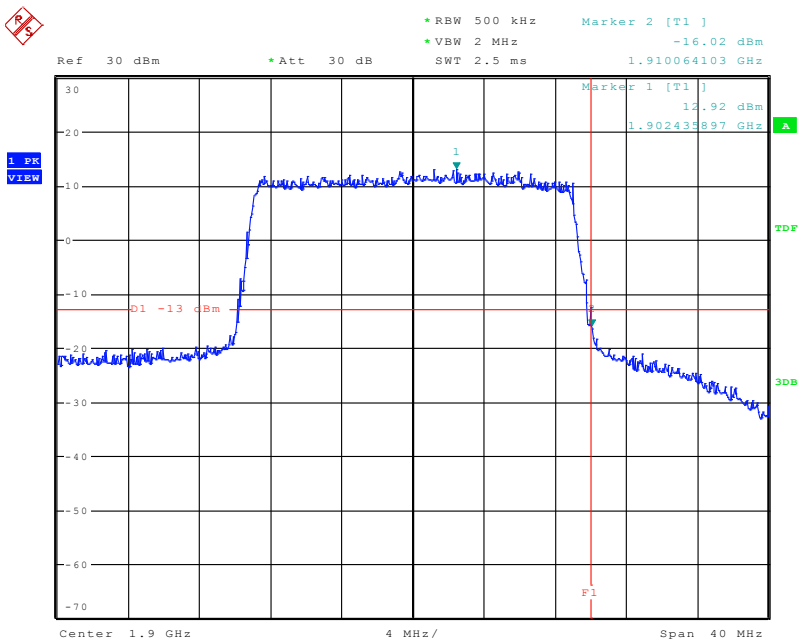
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BAND2-1860MHz,Q16-100RB_LOW@Pass



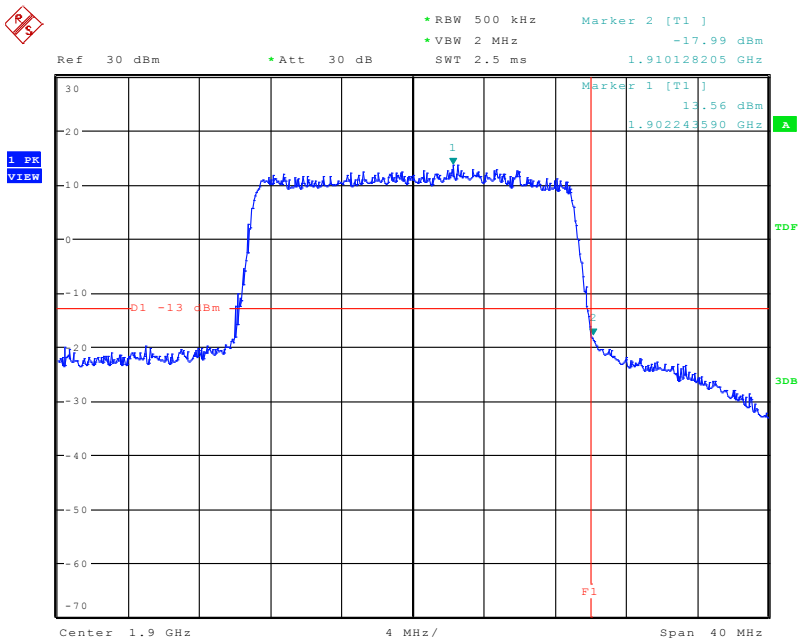
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BAND2-1900MHz,QPSK-100RB_LOW@Pass



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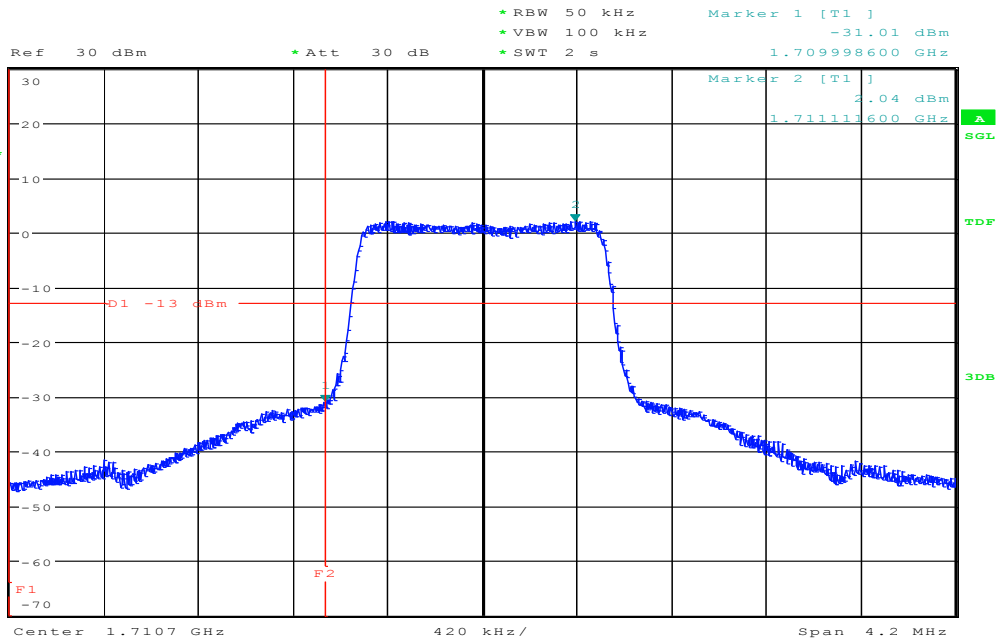
BAND2-1900MHz,Q16-100RB_LOW@Pass



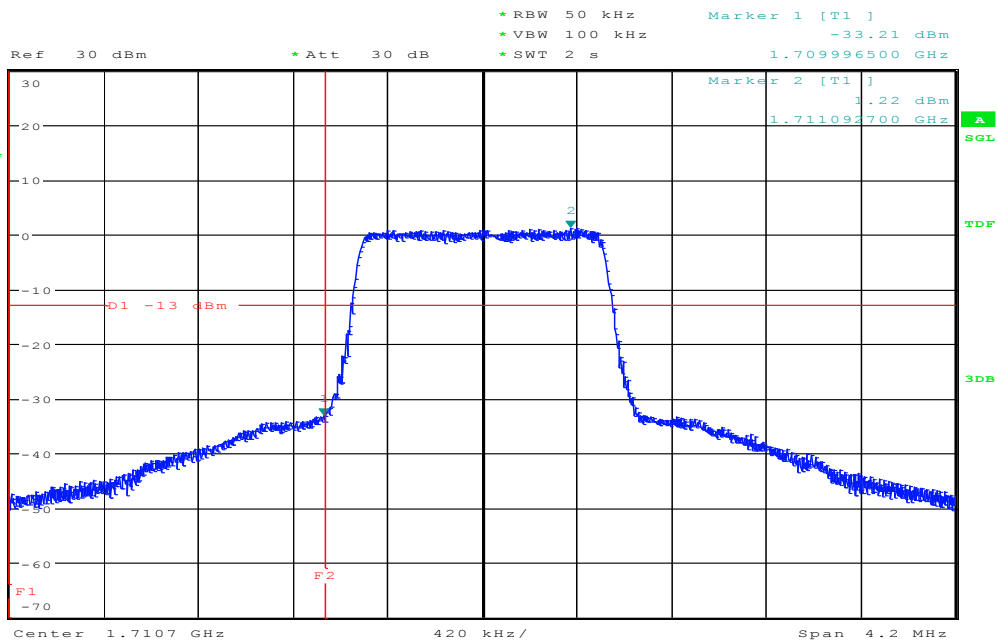
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BAND 4@Band Edge

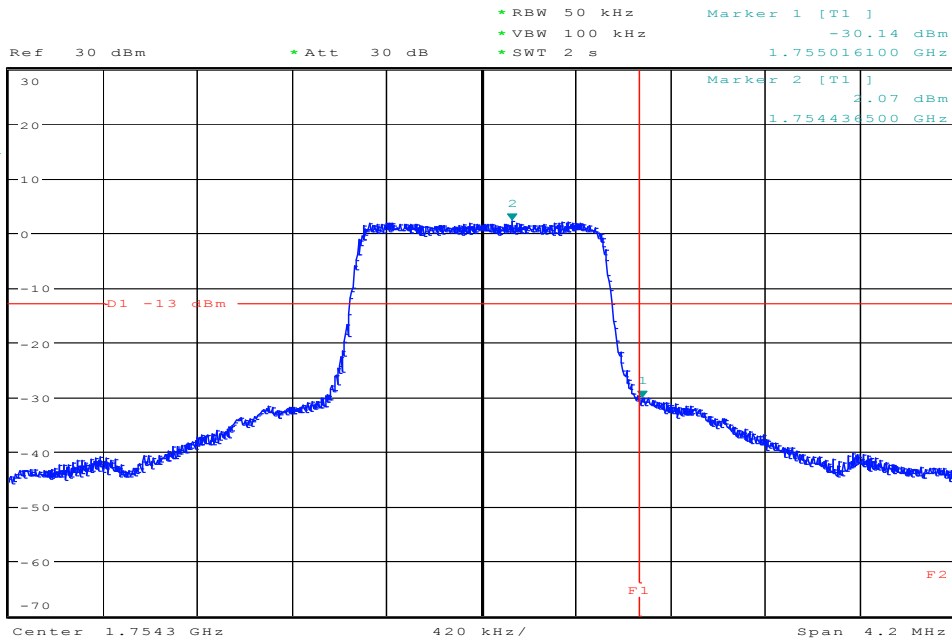
BAND4-1710.7MHz,QPSK-6RB_LOW@Pass



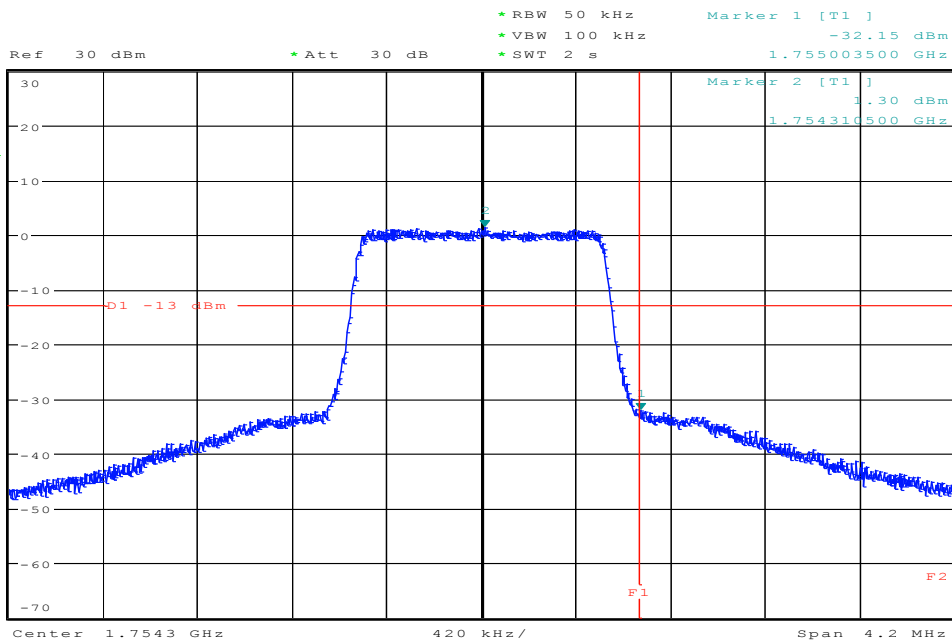
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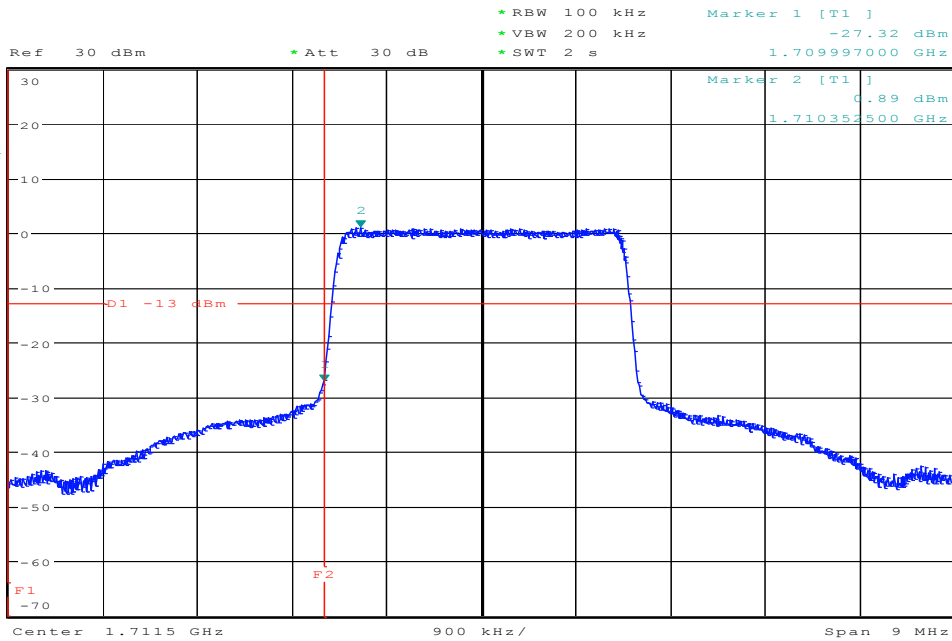
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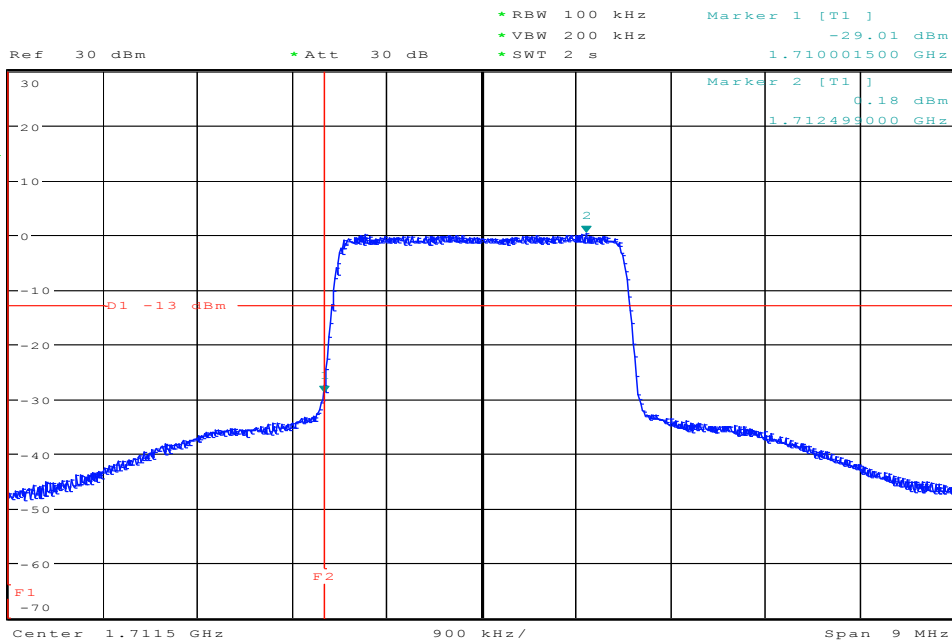
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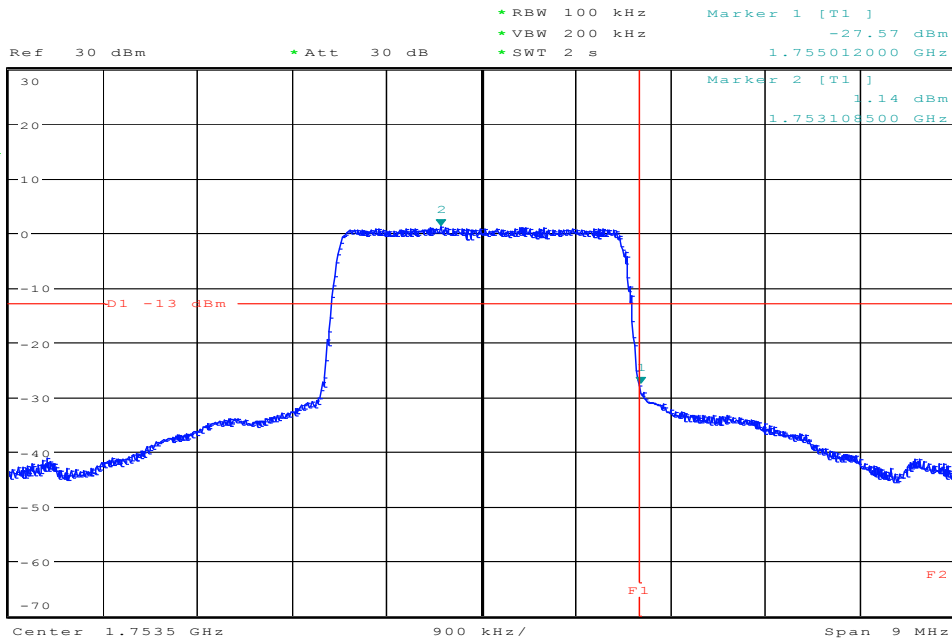
BAND4-1711.5MHz,QPSK-15RB_LOW@Pass



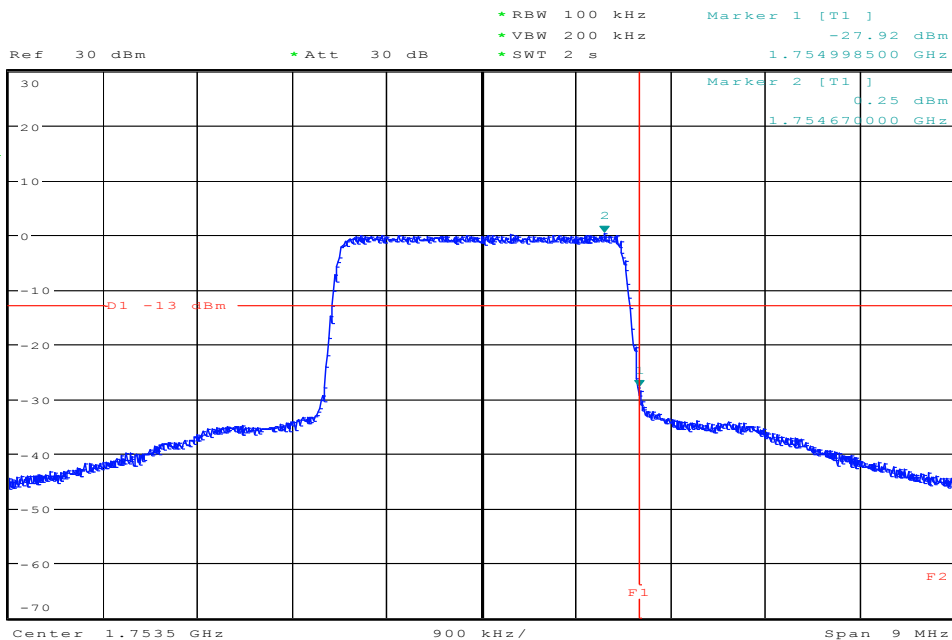
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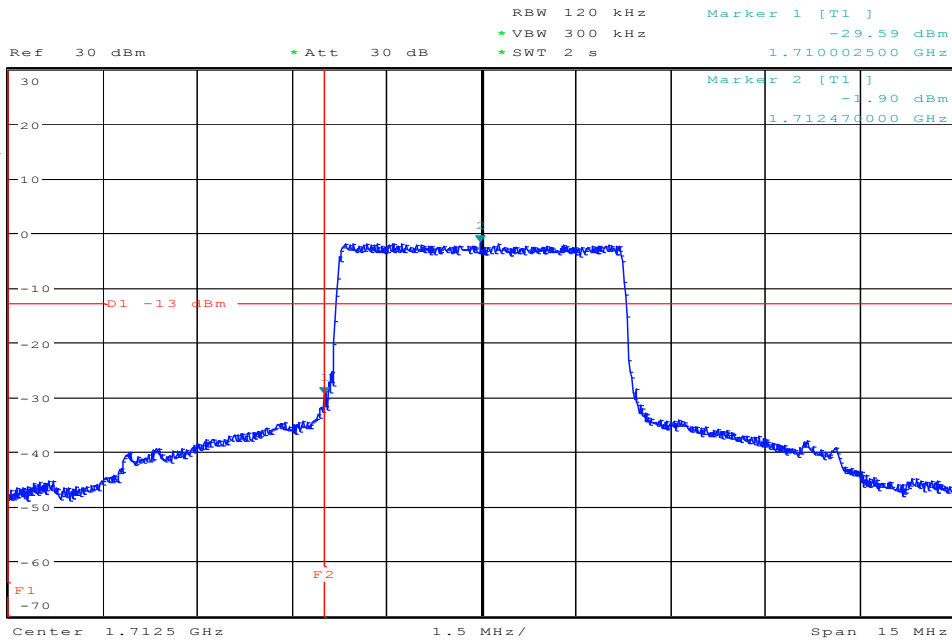
BAND4-1753.5MHz,QPSK-15RB_LOW@Pass



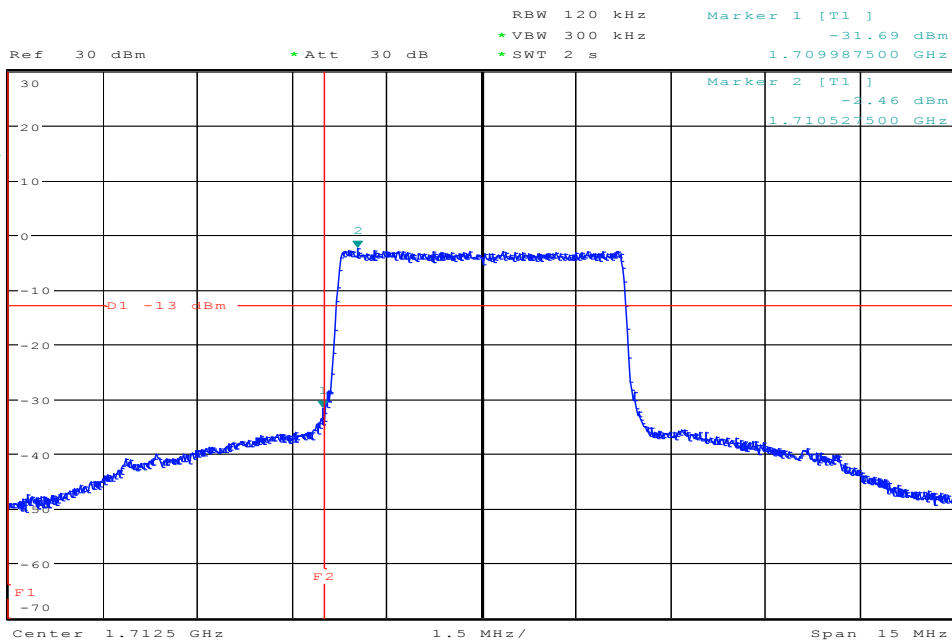
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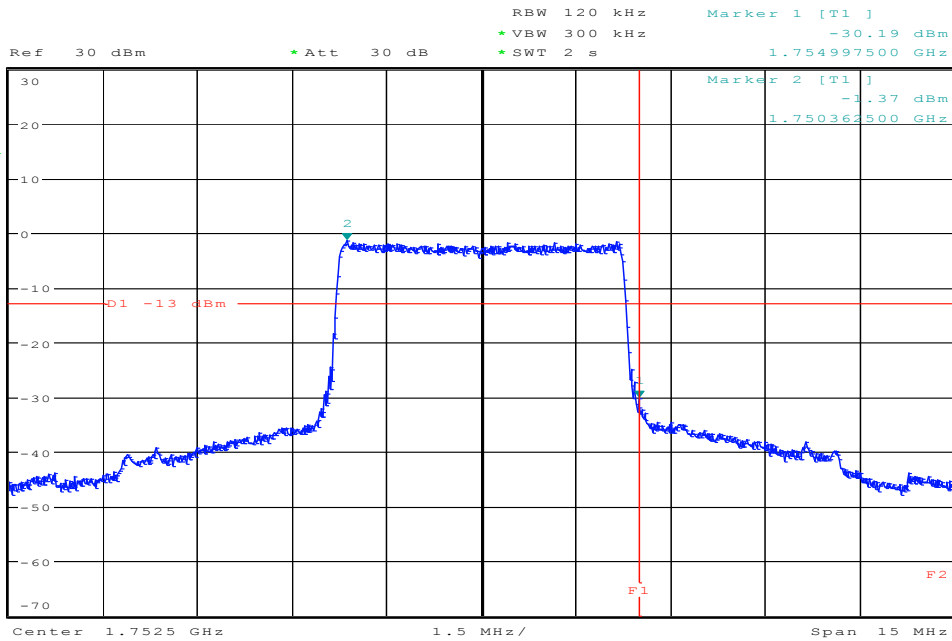
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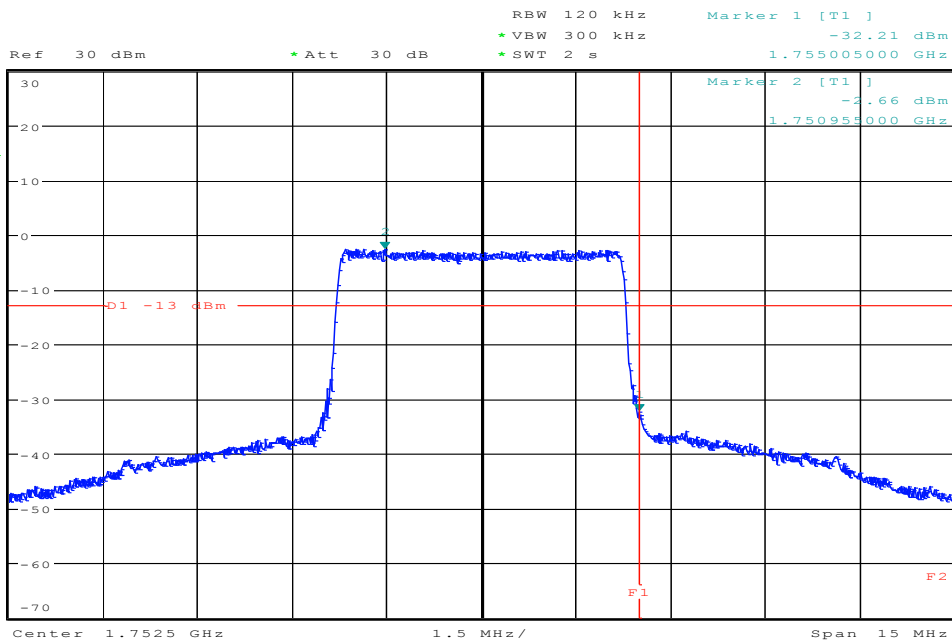
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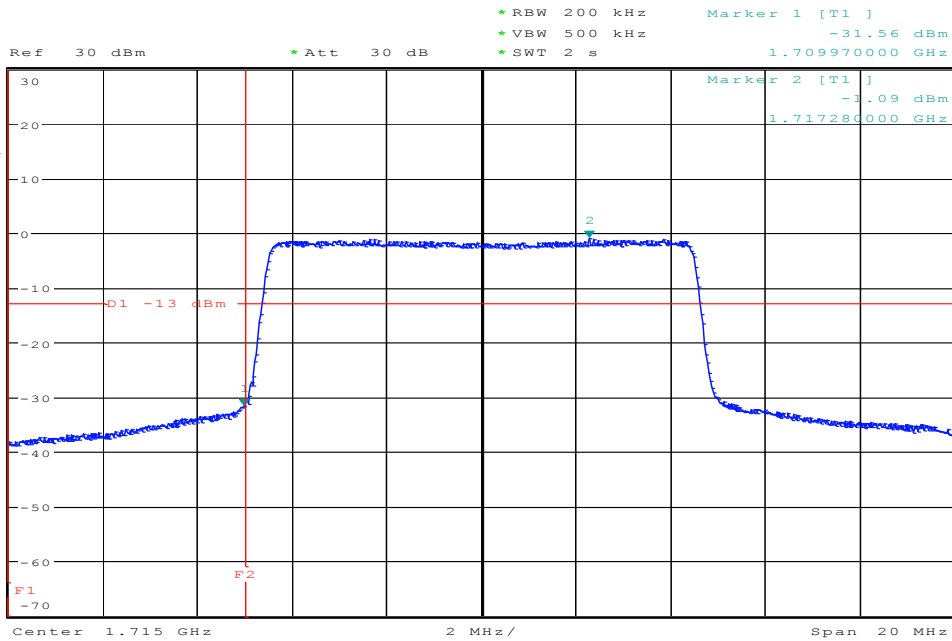
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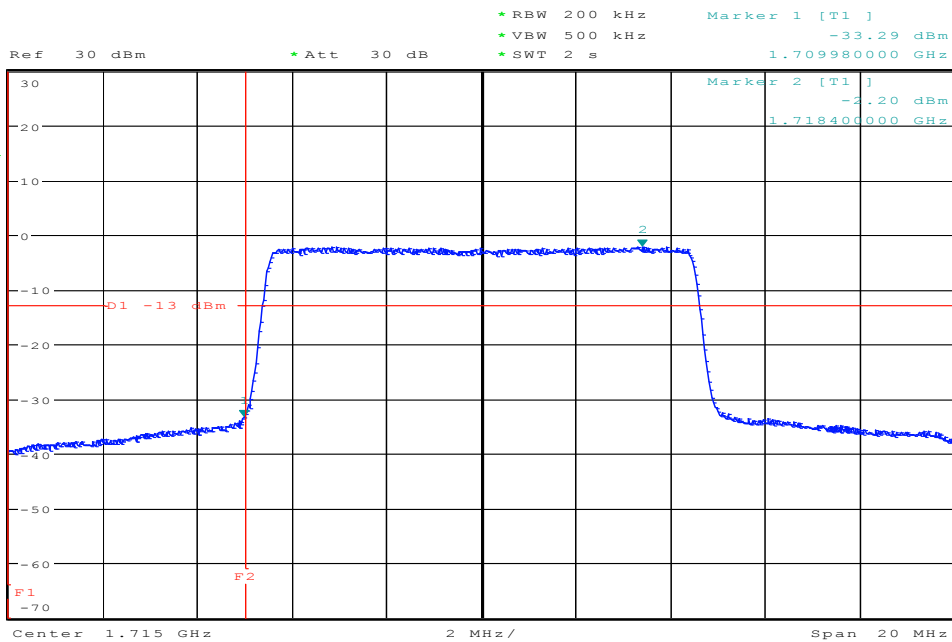
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BAND4-1715MHz,QPSK-50RB_LOW@Pass



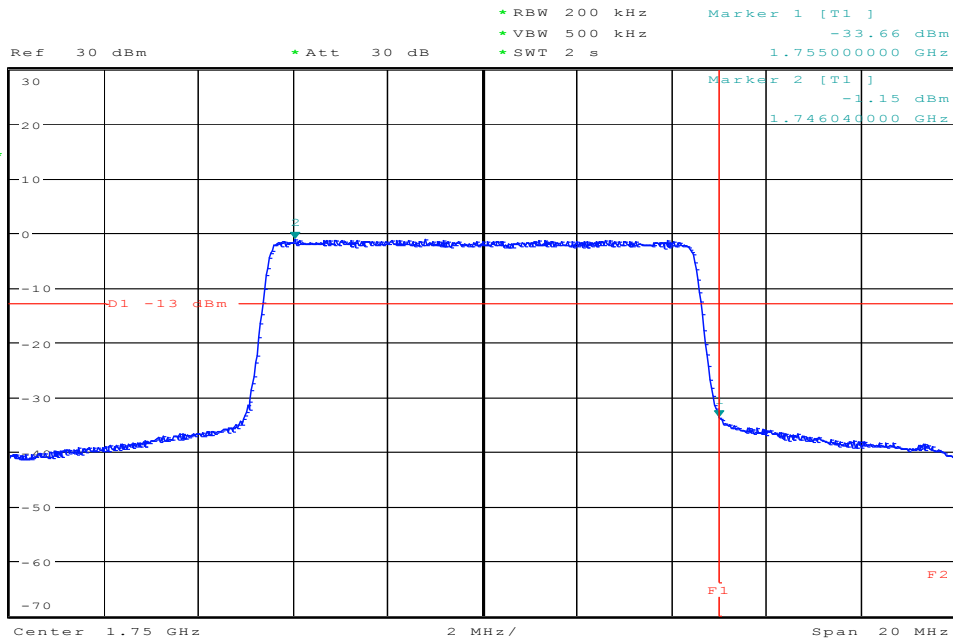
BAND4-1715MHz,Q16-50RB_LOW@Pass



BAND4-1750MHz,QPSK-50RB_LOW@Pass



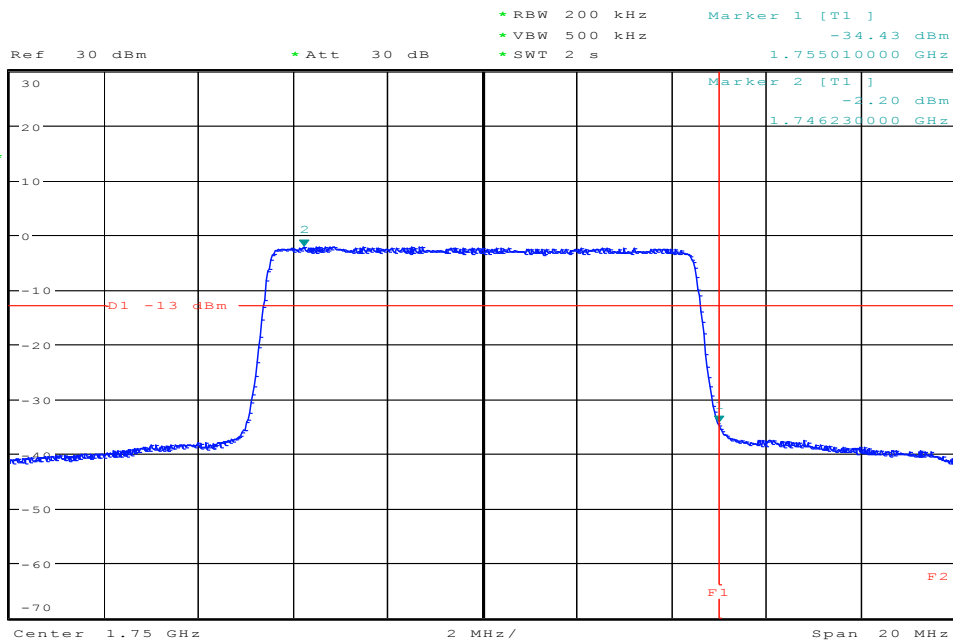
1 RM
AVG



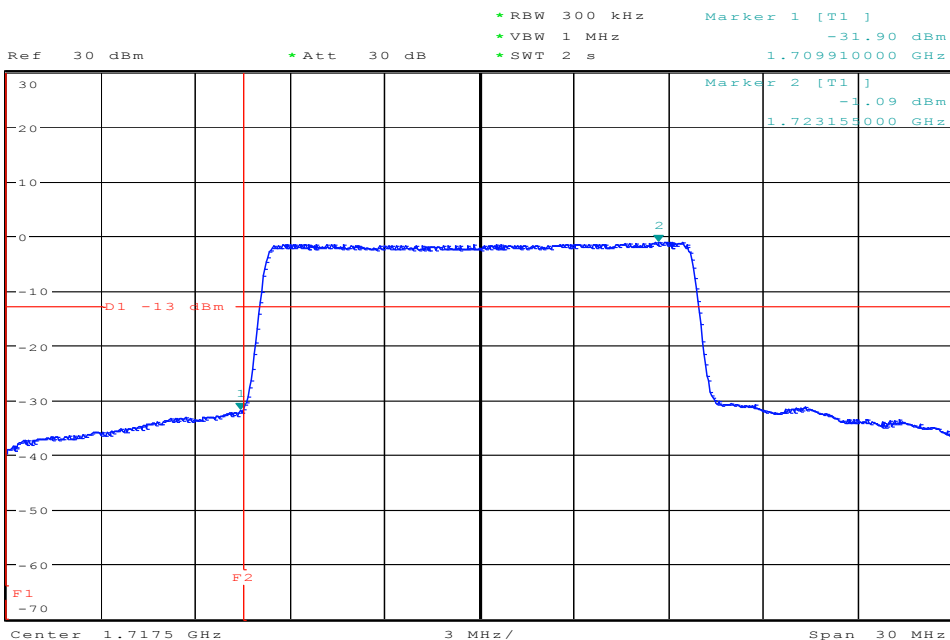
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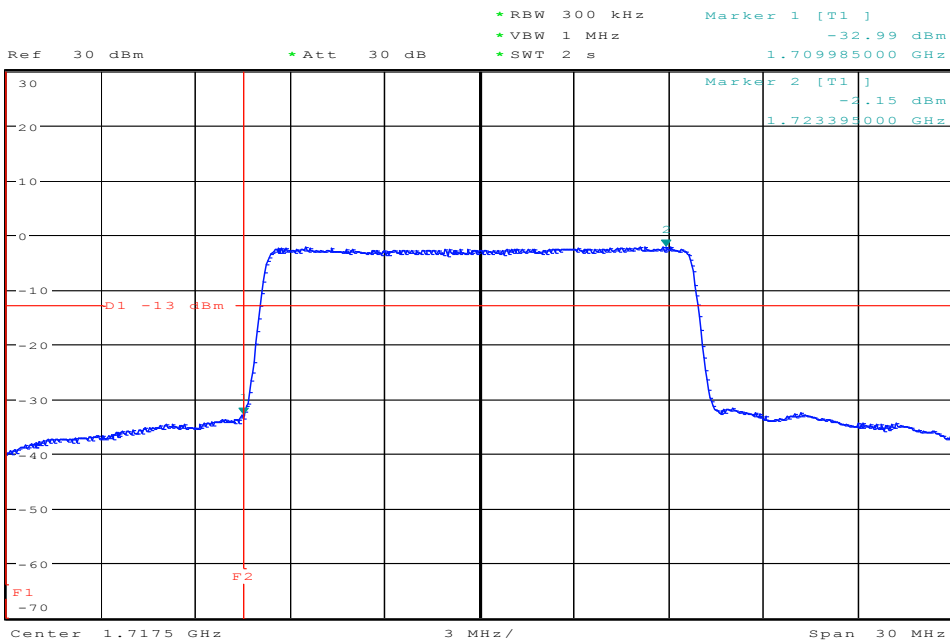
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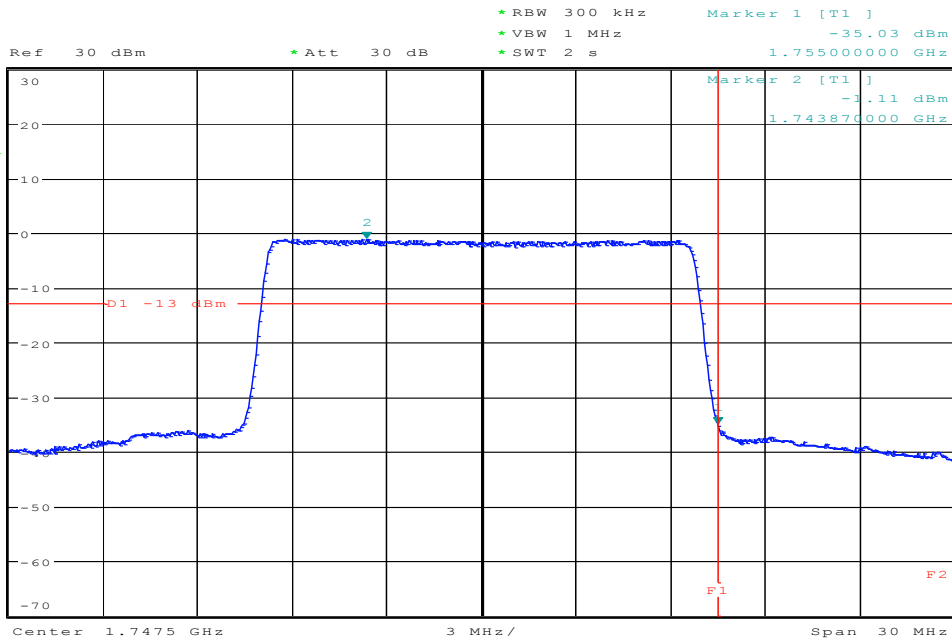
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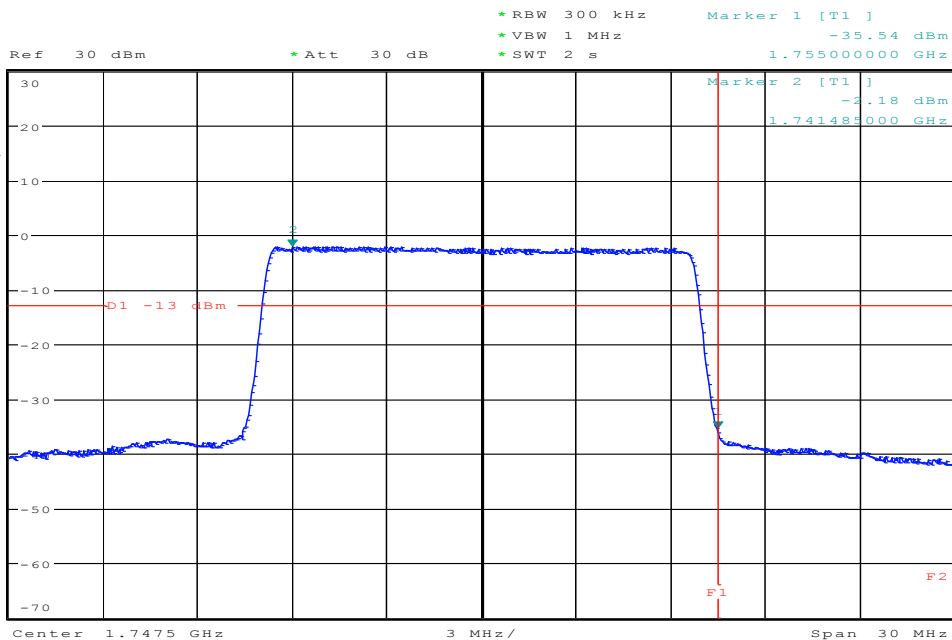
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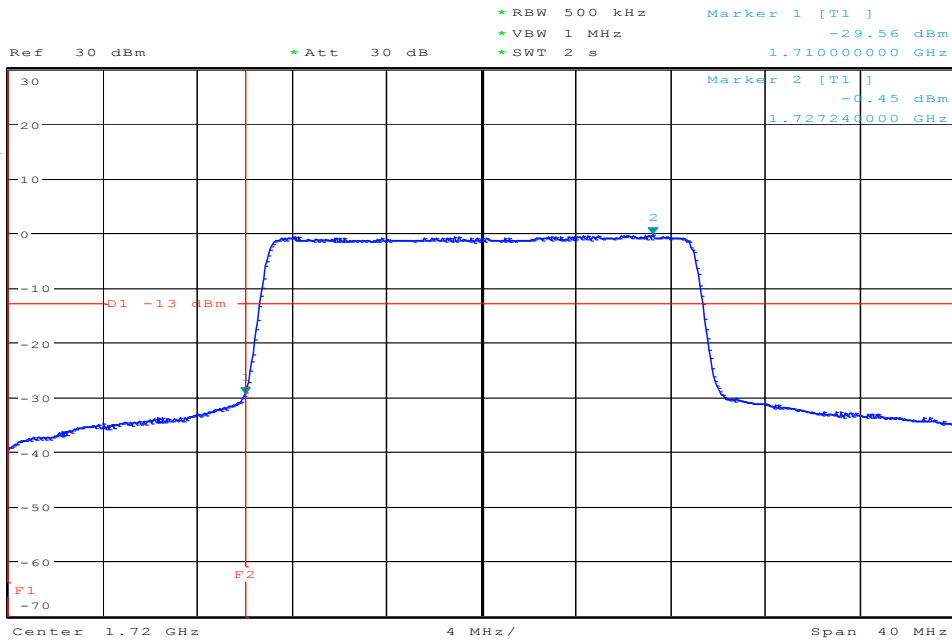
BAND4-1747.5MHz,QPSK-75RB_LOW@Pass



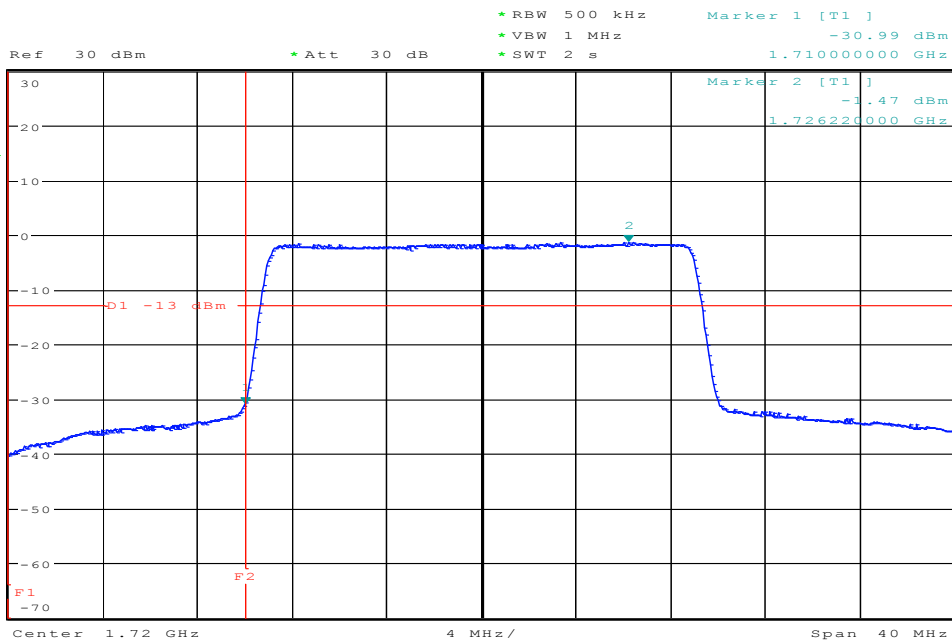
BAND4-1747.5MHz,Q16-75RB_LOW@Pass



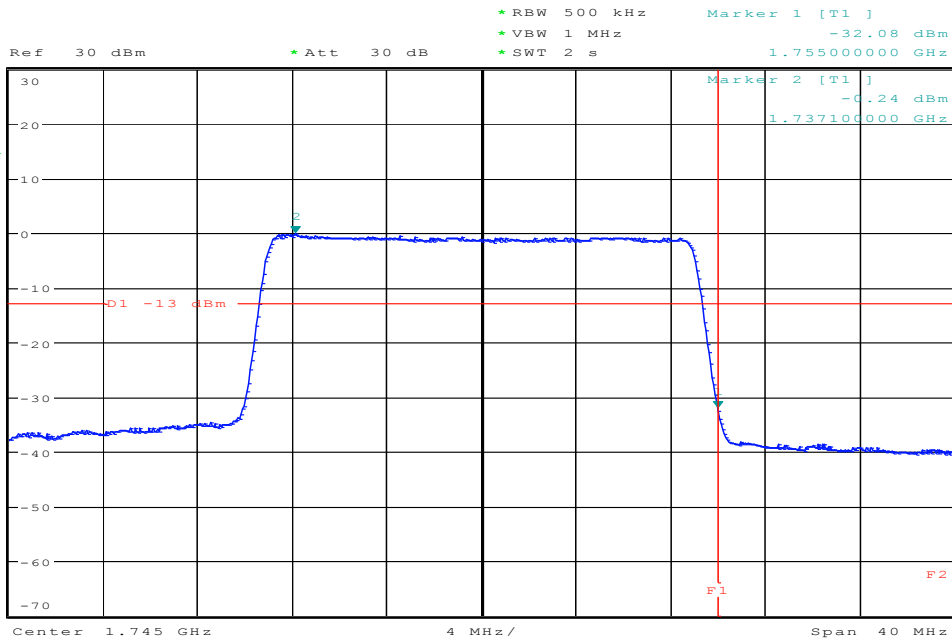
BAND4-1720MHz,QPSK-100RB_LOW@Pass



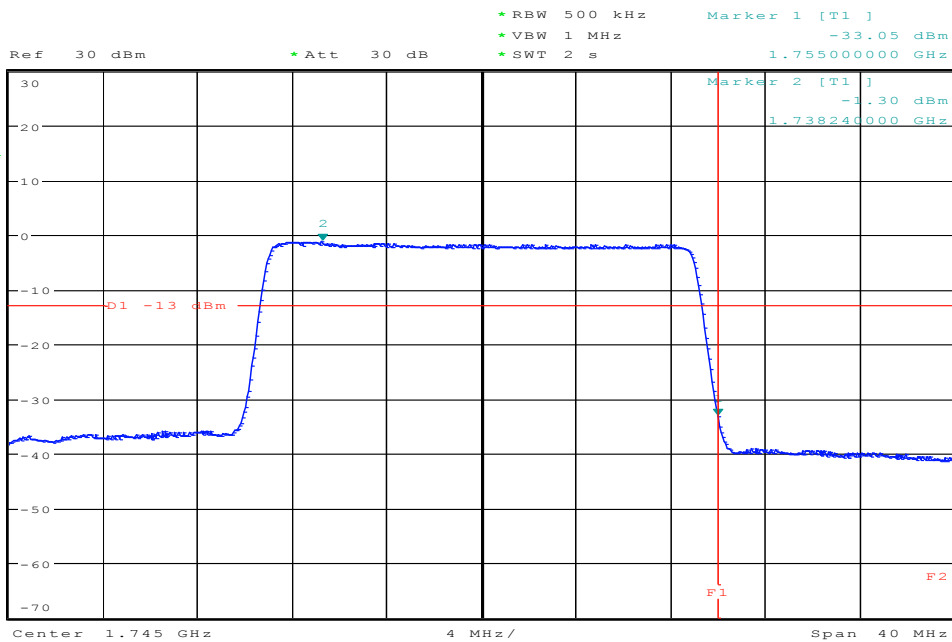
BAND4-1720MHz,Q16-100RB_LOW@Pass



BAND4-1745MHz,QPSK-100RB_LOW@Pass

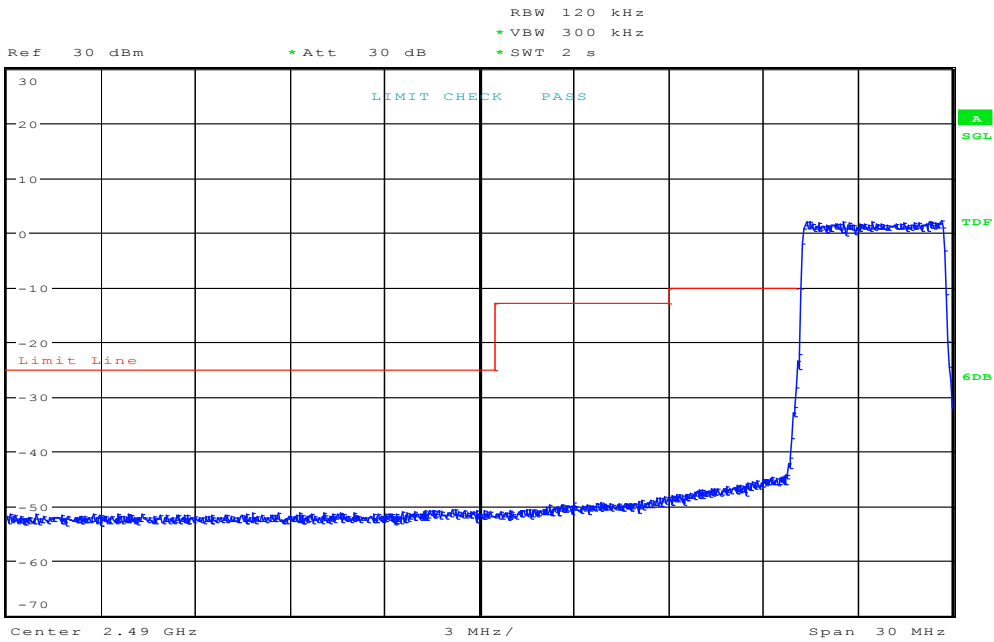


BAND4-1745MHz,Q16-100RB_LOW@Pass

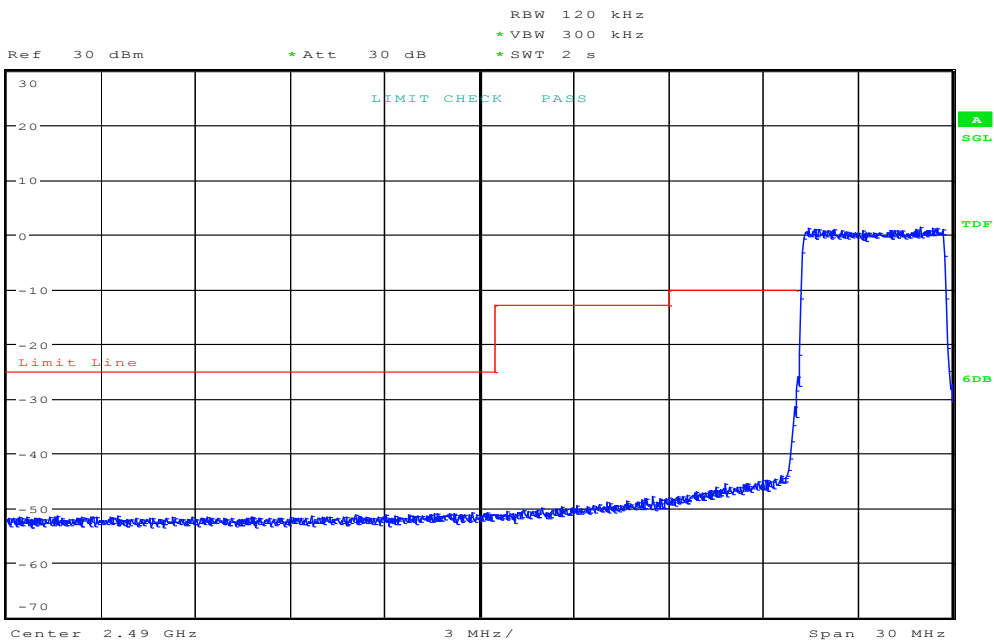


BAND 7@Emission Mask

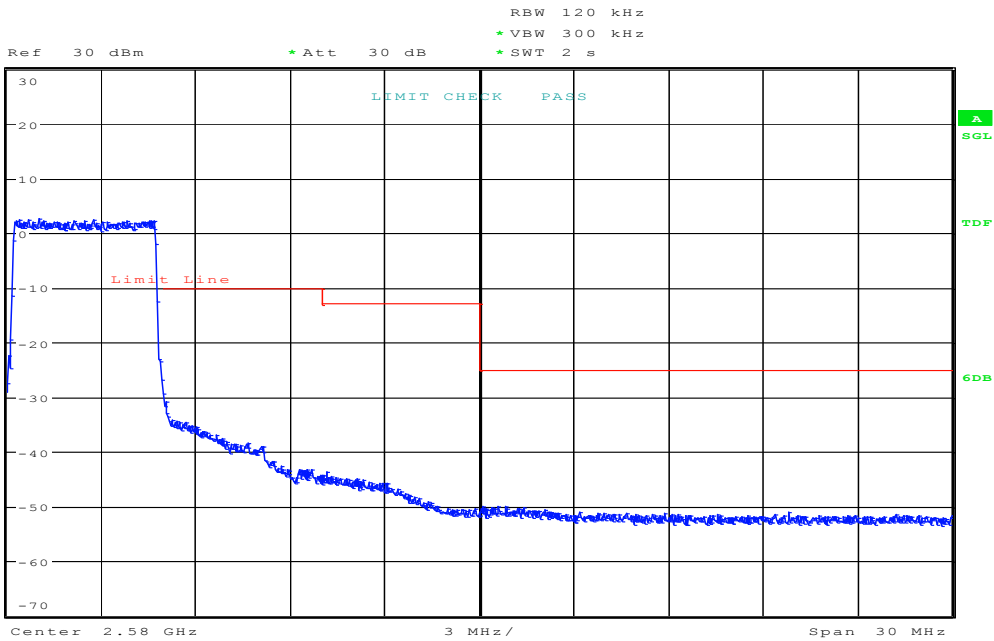
BW5MHz-2502.5MHz,QPSK-25RB_LOW@Pass



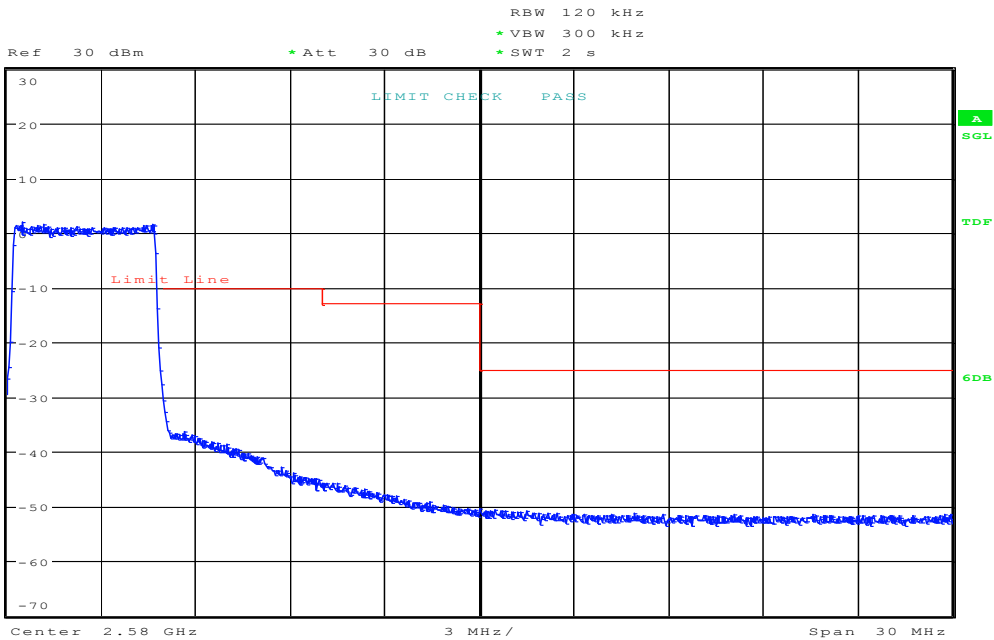
BW5MHz-2502.5MHz,Q16-25RB_LOW@Pass



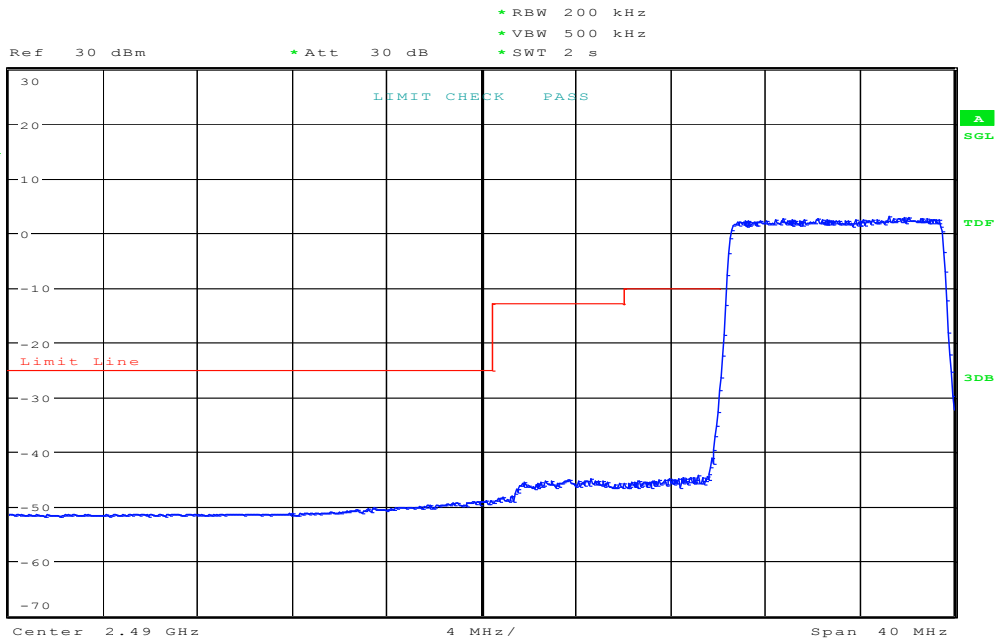
BW5MHz-2567.5MHz,QPSK-25RB_LOW@Pass



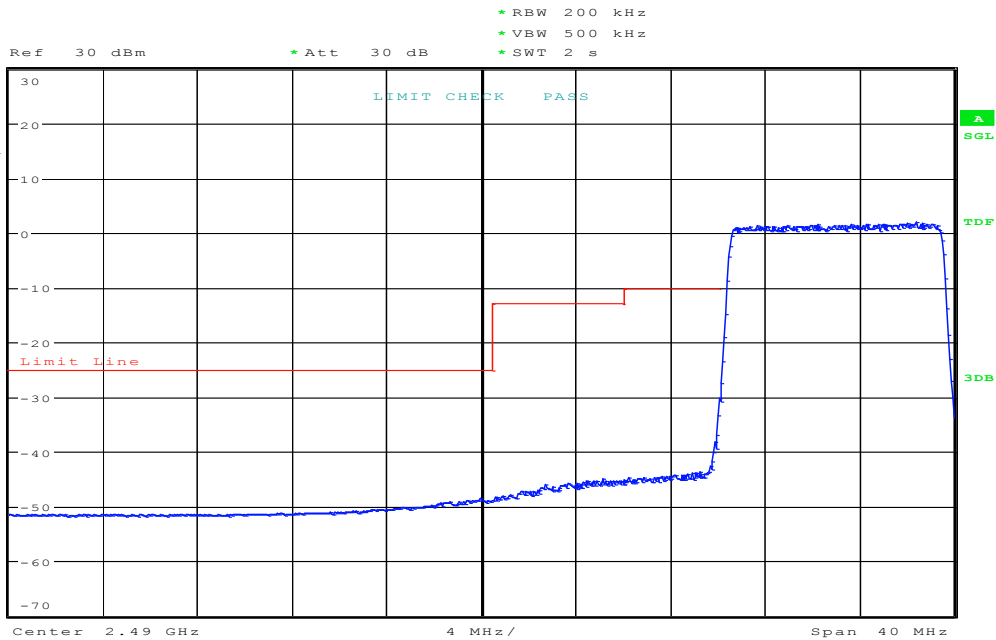
BW5MHz-2567.5MHz,Q16-25RB_LOW@Pass



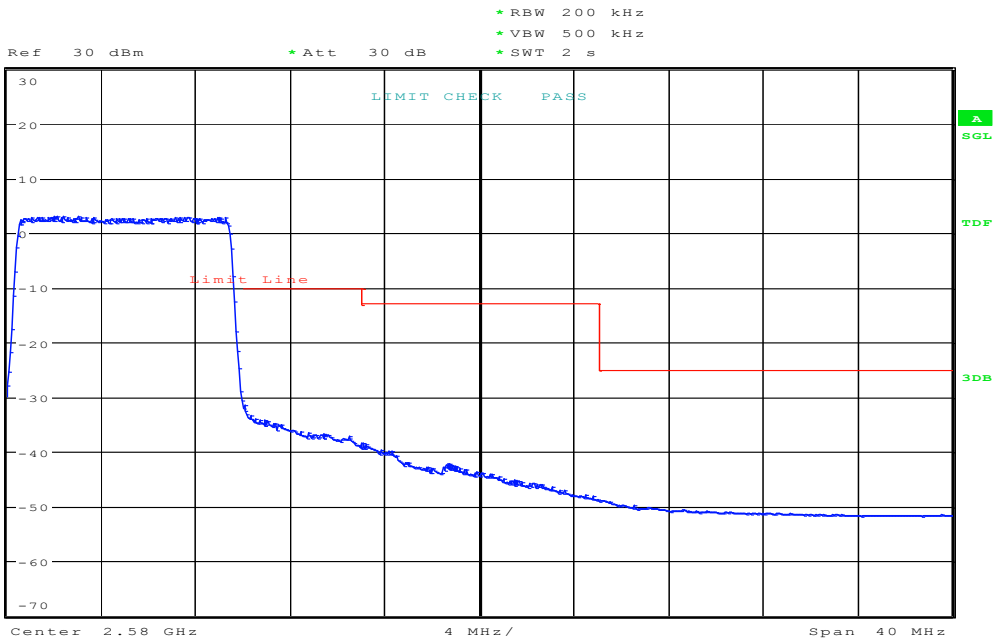
BW10MHz-2505MHz,QPSK-50RB_LOW@Pass



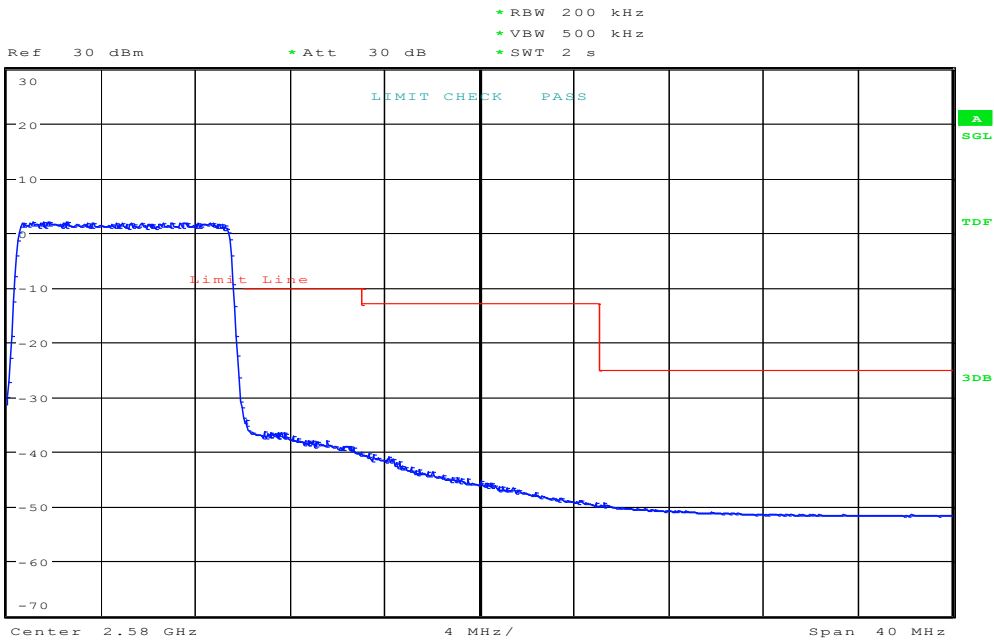
BW10MHz-2505MHz,Q16-50RB_LOW@Pass



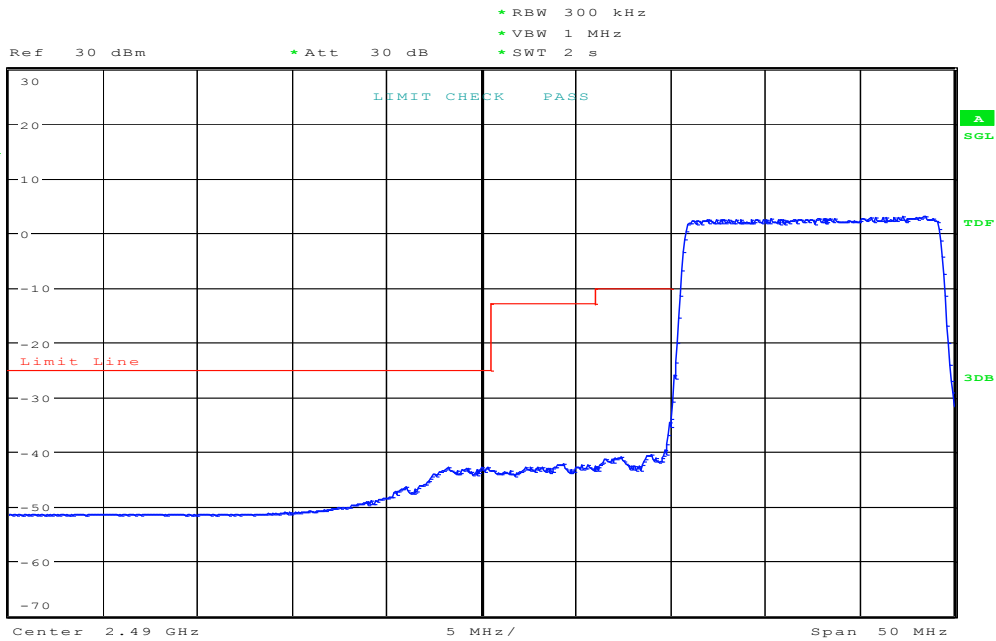
BW10MHz-2565MHz,QPSK-50RB_LOW@Pass



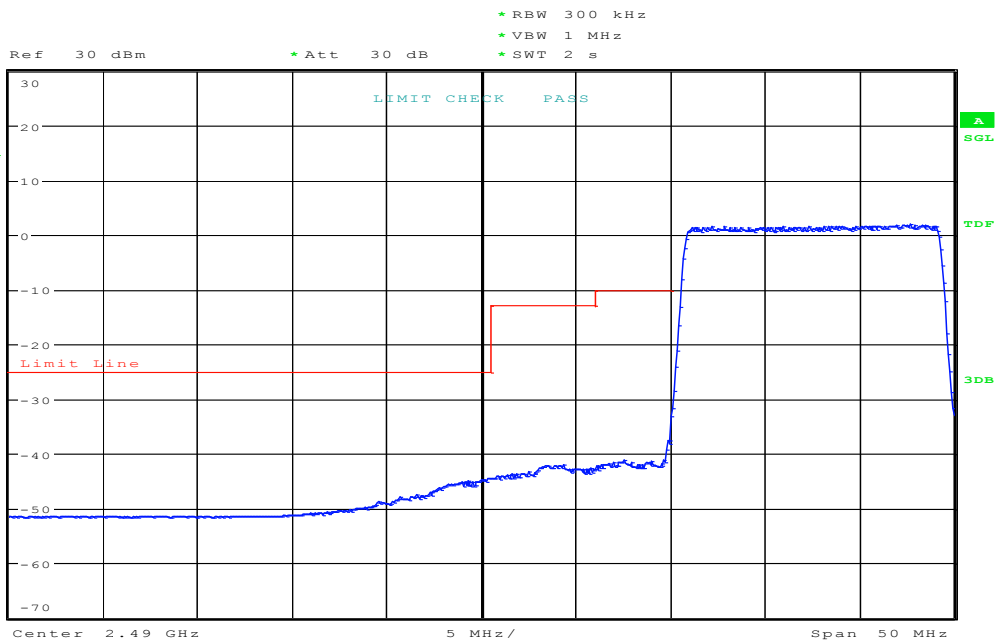
BW10MHz-2565MHz,Q16-50RB_LOW@Pass



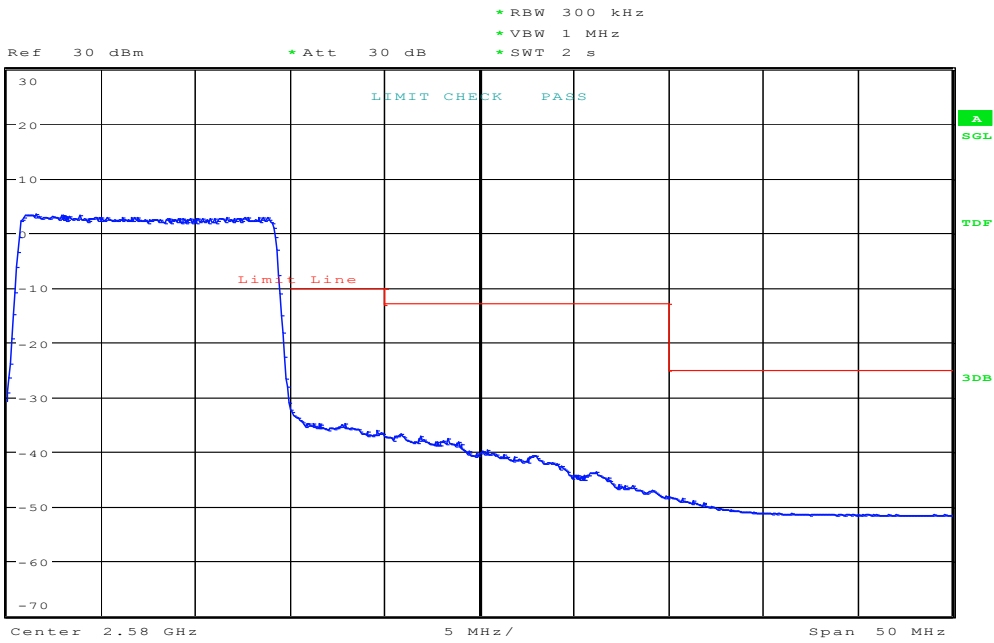
BW15MHz-2507.5MHz,QPSK-75RB_LOW@Pass



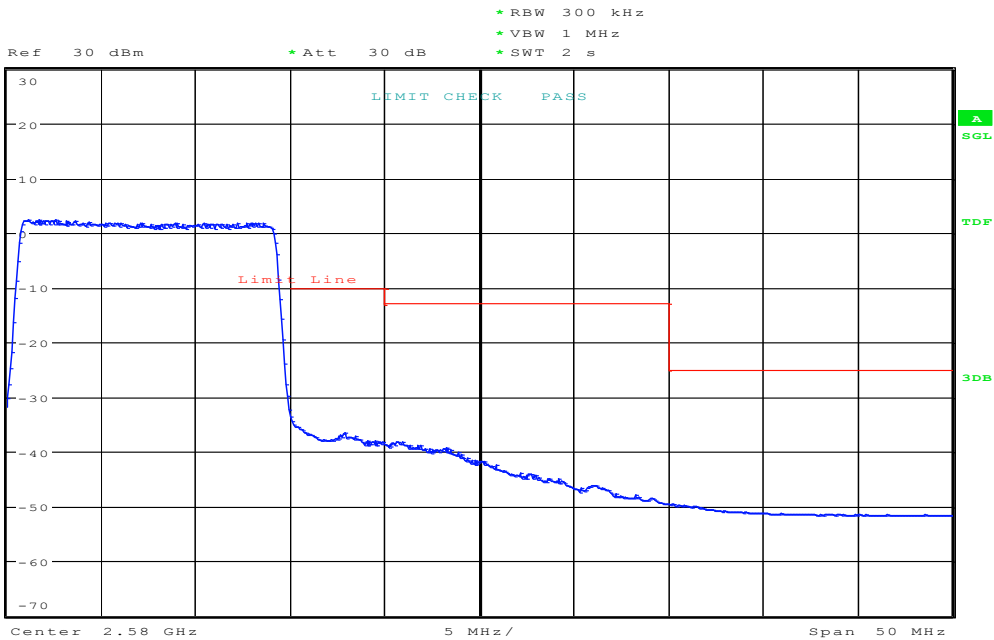
BW15MHz-2507.5MHz,Q16-75RB_LOW@Pass



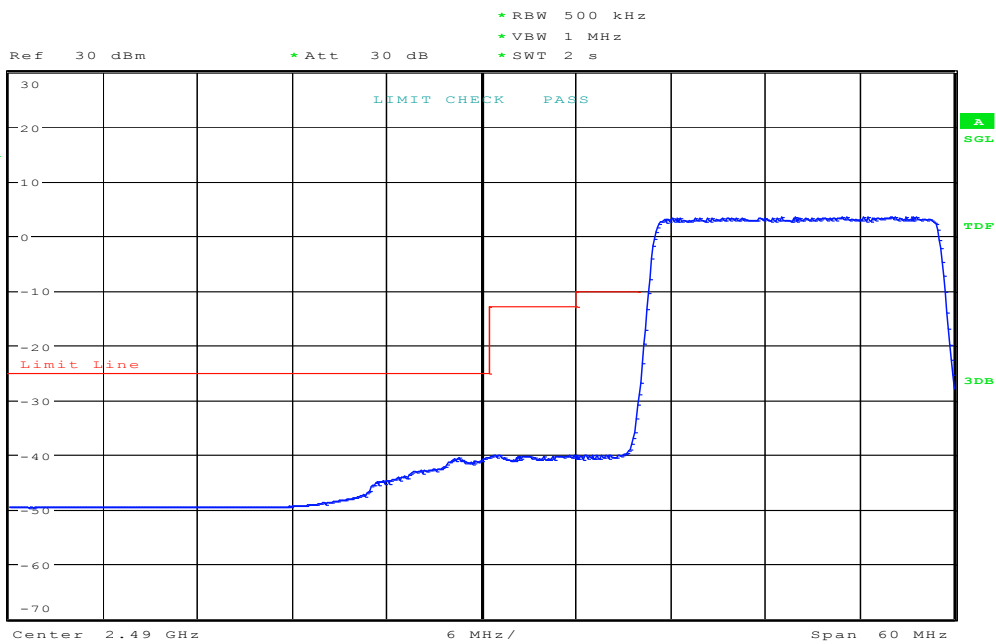
BW15MHz-2562.5MHz,QPSK-75RB_LOW@Pass



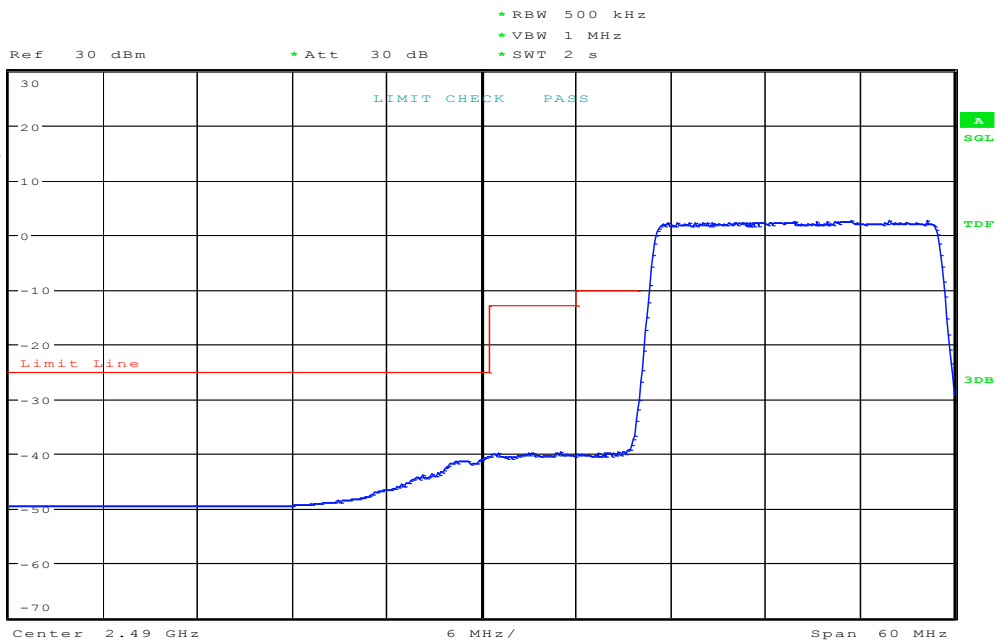
BW15MHz-2562.5MHz,Q16-75RB_LOW@Pass



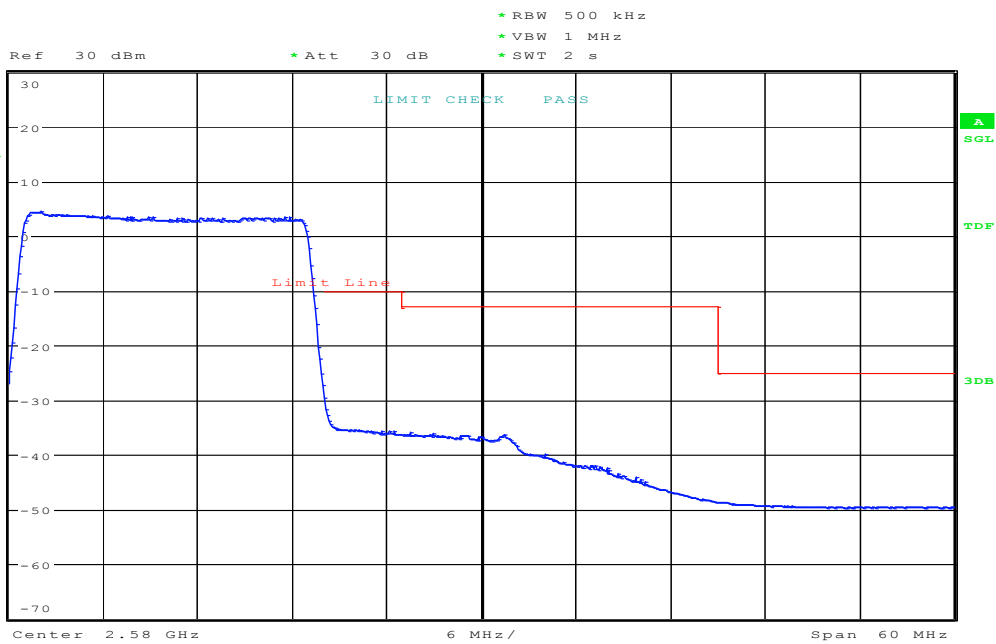
BW20MHz-2510MHz,QPSK-100RB_LOW@Pass



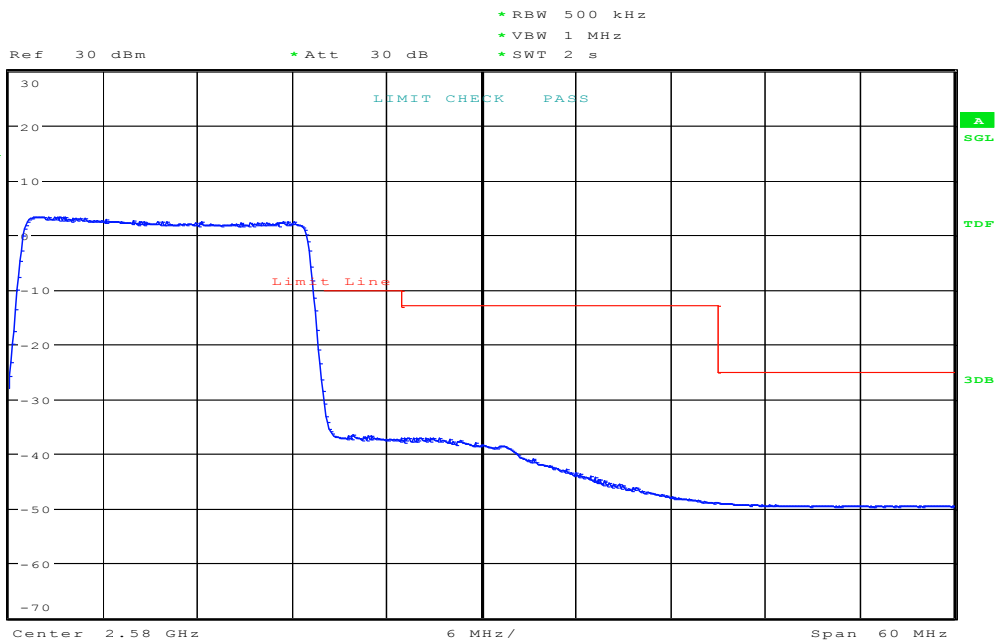
BW20MHz-2510MHz,Q16-100RB_LOW@Pass

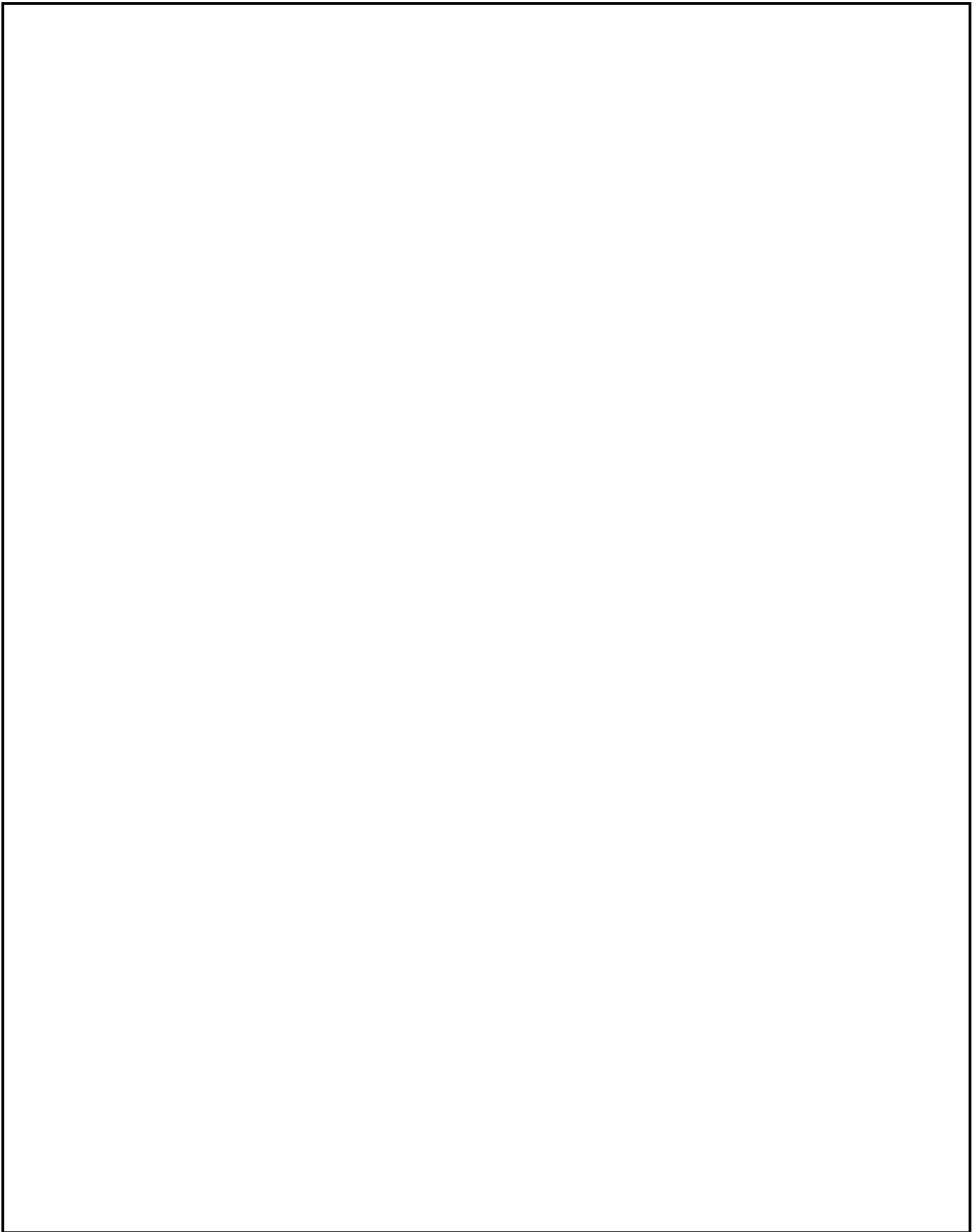


BW20MHz-2560MHz,QPSK-100RB_LOW@Pass



BW20MHz-2560MHz,Q16-100RB_LOW@Pass





2 FREQUENCY STABILITY

2.1 Measurement Result (Worst)

Frequency Error against Voltage for GSM 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.3	47	0.057
3.8	45	0.054
4.35	39	0.046

Frequency Error against Temperature for GSM 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	38	0.045
0	39	0.047
10	41	0.049
20	38	0.045
30	36	0.043
40	44	0.053
50	43	0.051

Frequency Error against Voltage for PCS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.3	35	0.019
3.8	38	0.020
4.35	35	0.018

Frequency Error against Temperature for PCS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	33	0.018
0	36	0.019
10	35	0.019
20	34	0.018
30	36	0.019
40	38	0.020
50	39	0.021

Frequency Error against Voltage for GPRS 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.3	30	0.036
3.8	39	0.047
4.35	37	0.044

Frequency Error against Temperature for GPRS 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	35	0.042
0	38	0.045
10	36	0.043
20	37	0.044
30	39	0.047
40	34	0.041
50	36	0.043

Frequency Error against Voltage for GPRS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.3	29	0.016
3.8	34	0.018
4.35	34	0.018

Frequency Error against Temperature for GPRS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	32	0.017
0	33	0.018
10	31	0.016
20	34	0.018
30	35	0.019
40	32	0.017
50	33	0.018

Frequency Error against Voltage for EGPRS 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.3	37	0.044
3.8	38	0.046
4.35	38	0.045

Frequency Error against Temperature for EGPRS 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	39	0.047
0	35	0.042
10	33	0.039
20	35	0.042
30	36	0.043
40	37	0.044
50	38	0.045

Frequency Error against Voltage for EGPRS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.3	32	0.017
3.8	31	0.017
4.35	29	0.016

Frequency Error against Temperature for EGPRS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	35	0.019
0	33	0.018
10	31	0.016
20	32	0.017
30	35	0.019
40	32	0.017
50	34	0.018

UTRA BANDS**Frequency Error against Voltage for WCDMA BAND 2 (Mid channel)**

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.3	35	0.019
3.8	31	0.016
4.35	40	0.021

Frequency Error against Temperature for WCDMA BAND 2 (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	39	0.021
0	41	0.022
10	40	0.021
20	38	0.020
30	39	0.021
40	40	0.021
50	41	0.022

Frequency Error against Voltage for WCDMA BAND 5 (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.3	35	0.042
3.8	31	0.037
4.35	40	0.048

Frequency Error against Temperature for WCDMA BAND 5 (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	39	0.047
0	42	0.050
10	41	0.049
20	43	0.051
30	40	0.048
40	39	0.047
50	41	0.049

**E-UTRA
BAND 2:**

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error (Hz)	Frequency Error
				Size	Offset		(ppm)
1.4	18607	1850.7	QPSK	1	LOW	8.95	0.0048
1.4	18607	1850.7	QPSK	1	MID	7.37	0.0039
1.4	18607	1850.7	QPSK	1	HIGH	6.36	0.0034
1.4	18607	1850.7	QPSK	3	LOW	5.81	0.0031
1.4	18607	1850.7	QPSK	3	MID	8.44	0.0045
1.4	18607	1850.7	QPSK	3	HIGH	8.84	0.0047
1.4	18607	1850.7	QPSK	6	LOW	5.11	0.0027
1.4	18607	1850.7	Q16	1	LOW	7.15	0.0038
1.4	18607	1850.7	Q16	1	MID	6.64	0.0035
1.4	18607	1850.7	Q16	1	HIGH	8.98	0.0048
1.4	18607	1850.7	Q16	3	LOW	9.03	0.0048
1.4	18607	1850.7	Q16	3	MID	7.39	0.0039
1.4	18607	1850.7	Q16	3	HIGH	8.44	0.0045
1.4	18607	1850.7	Q16	6	LOW	6.58	0.0035
1.4	18900	1880	QPSK	1	LOW	9.74	0.0051
1.4	18900	1880	QPSK	1	MID	8.45	0.0044
1.4	18900	1880	QPSK	1	HIGH	5.94	0.0031
1.4	18900	1880	QPSK	3	LOW	8.62	0.0045
1.4	18900	1880	QPSK	3	MID	9.55	0.0050
1.4	18900	1880	QPSK	3	HIGH	8.26	0.0043
1.4	18900	1880	QPSK	6	LOW	5.95	0.0031
1.4	18900	1880	Q16	1	LOW	8.29	0.0044
1.4	18900	1880	Q16	1	MID	9.64	0.0051
1.4	18900	1880	Q16	1	HIGH	6.69	0.0035
1.4	18900	1880	Q16	3	LOW	7.41	0.0039
1.4	18900	1880	Q16	3	MID	7.43	0.0039
1.4	18900	1880	Q16	3	HIGH	9.64	0.0051
1.4	18900	1880	Q16	6	LOW	8.77	0.0046
1.4	19193	1909.3	QPSK	1	LOW	9.17	0.0048
1.4	19193	1909.3	QPSK	1	MID	5.52	0.0028
1.4	19193	1909.3	QPSK	1	HIGH	5.64	0.0029
1.4	19193	1909.3	QPSK	3	LOW	9.17	0.0048
1.4	19193	1909.3	QPSK	3	MID	5.28	0.0027
1.4	19193	1909.3	QPSK	3	HIGH	7.03	0.0036

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error (Hz)	Frequency Error
				Size	Offset		(ppm)
1.4	19193	1909.3	QPSK	6	LOW	8.3	0.0043
1.4	19193	1909.3	Q16	1	LOW	7.15	0.0037
1.4	19193	1909.3	Q16	1	MID	5.62	0.0029
1.4	19193	1909.3	Q16	1	HIGH	6.81	0.0035
1.4	19193	1909.3	Q16	3	LOW	6.29	0.0032
1.4	19193	1909.3	Q16	3	MID	7.65	0.0040
1.4	19193	1909.3	Q16	3	HIGH	5.49	0.0028
1.4	19193	1909.3	Q16	6	LOW	7.36	0.0038
3	18615	1851.5	QPSK	1	LOW	8.39	0.0045
3	18615	1851.5	QPSK	1	MID	8.53	0.0046
3	18615	1851.5	QPSK	1	HIGH	6.24	0.0033
3	18615	1851.5	QPSK	8	LOW	7.86	0.0042
3	18615	1851.5	QPSK	8	MID	7.63	0.0041
3	18615	1851.5	QPSK	8	HIGH	8.65	0.0046
3	18615	1851.5	QPSK	15	LOW	8.61	0.0046
3	18615	1851.5	Q16	1	LOW	7.5	0.0040
3	18615	1851.5	Q16	1	MID	9.51	0.0051
3	18615	1851.5	Q16	1	HIGH	7.5	0.0040
3	18615	1851.5	Q16	8	LOW	9.67	0.0052
3	18615	1851.5	Q16	8	MID	9.75	0.0052
3	18615	1851.5	Q16	8	HIGH	5.53	0.0029
3	18615	1851.5	Q16	15	LOW	9.97	0.0053
3	18900	1880	QPSK	1	LOW	8.61	0.0045
3	18900	1880	QPSK	1	MID	7.08	0.0037
3	18900	1880	QPSK	1	HIGH	7.92	0.0042
3	18900	1880	QPSK	8	LOW	8	0.0042
3	18900	1880	QPSK	8	MID	9.52	0.0050
3	18900	1880	QPSK	8	HIGH	5.94	0.0031
3	18900	1880	QPSK	15	LOW	6.95	0.0036
3	18900	1880	Q16	1	LOW	6.34	0.0033
3	18900	1880	Q16	1	MID	8.32	0.0044
3	18900	1880	Q16	1	HIGH	8.35	0.0044
3	18900	1880	Q16	8	LOW	6.69	0.0035
3	18900	1880	Q16	8	MID	9.41	0.0050
3	18900	1880	Q16	8	HIGH	7.41	0.0039
3	18900	1880	Q16	15	LOW	7.87	0.0041

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error (Hz)	Frequency Error
				Size	Offset		(ppm)
3	19185	1908.5	QPSK	1	LOW	5.67	0.0029
3	19185	1908.5	QPSK	1	MID	6.55	0.0034
3	19185	1908.5	QPSK	1	HIGH	9.47	0.0049
3	19185	1908.5	QPSK	8	LOW	8.84	0.0046
3	19185	1908.5	QPSK	8	MID	8.27	0.0043
3	19185	1908.5	QPSK	8	HIGH	9	0.0047
3	19185	1908.5	QPSK	15	LOW	7.61	0.0039
3	19185	1908.5	Q16	1	LOW	9.3	0.0048
3	19185	1908.5	Q16	1	MID	7.29	0.0038
3	19185	1908.5	Q16	1	HIGH	9.51	0.0049
3	19185	1908.5	Q16	8	LOW	5.28	0.0027
3	19185	1908.5	Q16	8	MID	7.57	0.0039
3	19185	1908.5	Q16	8	HIGH	8.7	0.0045
3	19185	1908.5	Q16	15	LOW	9.75	0.0051
5	18625	1852.5	QPSK	1	LOW	9.29	0.0050
5	18625	1852.5	QPSK	1	MID	8.72	0.0047
5	18625	1852.5	QPSK	1	HIGH	8.81	0.0047
5	18625	1852.5	QPSK	12	LOW	7.2	0.0038
5	18625	1852.5	QPSK	12	MID	8.45	0.0045
5	18625	1852.5	QPSK	12	HIGH	6.2	0.0033
5	18625	1852.5	QPSK	25	LOW	8.01	0.0043
5	18625	1852.5	Q16	1	LOW	9.8	0.0052
5	18625	1852.5	Q16	1	MID	6.64	0.0035
5	18625	1852.5	Q16	1	HIGH	9.5	0.0051
5	18625	1852.5	Q16	12	LOW	7.83	0.0042
5	18625	1852.5	Q16	12	MID	9.57	0.0051
5	18625	1852.5	Q16	12	HIGH	5.84	0.0031
5	18625	1852.5	Q16	25	LOW	9.81	0.0052
5	18900	1880	QPSK	1	LOW	7.5	0.0039
5	18900	1880	QPSK	1	MID	8.84	0.0047
5	18900	1880	QPSK	1	HIGH	5.83	0.0031
5	18900	1880	QPSK	12	LOW	7.97	0.0042
5	18900	1880	QPSK	12	MID	6.5	0.0034
5	18900	1880	QPSK	12	HIGH	7.44	0.0039
5	18900	1880	QPSK	25	LOW	6.11	0.0032
5	18900	1880	Q16	1	LOW	9.65	0.0051

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error (Hz)	Frequency Error
				Size	Offset		(ppm)
5	18900	1880	Q16	1	MID	8.48	0.0045
5	18900	1880	Q16	1	HIGH	9.92	0.0052
5	18900	1880	Q16	12	LOW	6.62	0.0035
5	18900	1880	Q16	12	MID	5.21	0.0027
5	18900	1880	Q16	12	HIGH	7.89	0.0041
5	18900	1880	Q16	25	LOW	9.35	0.0049
5	19175	1907.5	QPSK	1	LOW	9.54	0.0050
5	19175	1907.5	QPSK	1	MID	6.91	0.0036
5	19175	1907.5	QPSK	1	HIGH	6.2	0.0032
5	19175	1907.5	QPSK	12	LOW	5.73	0.0030
5	19175	1907.5	QPSK	12	MID	8.17	0.0042
5	19175	1907.5	QPSK	12	HIGH	9.48	0.0049
5	19175	1907.5	QPSK	25	LOW	9.69	0.0050
5	19175	1907.5	Q16	1	LOW	8.32	0.0043
5	19175	1907.5	Q16	1	MID	9.34	0.0048
5	19175	1907.5	Q16	1	HIGH	7.09	0.0037
5	19175	1907.5	Q16	12	LOW	7.01	0.0036
5	19175	1907.5	Q16	12	MID	5.47	0.0028
5	19175	1907.5	Q16	12	HIGH	5	0.0026
5	19175	1907.5	Q16	25	LOW	9.53	0.0049
10	18650	1855	QPSK	1	LOW	7.87	0.0042
10	18650	1855	QPSK	1	MID	6.95	0.0037
10	18650	1855	QPSK	1	HIGH	6.33	0.0034
10	18650	1855	QPSK	25	LOW	8.3	0.0044
10	18650	1855	QPSK	25	MID	5.32	0.0028
10	18650	1855	QPSK	25	HIGH	9.95	0.0053
10	18650	1855	QPSK	50	LOW	9.41	0.0050
10	18650	1855	Q16	1	LOW	5.41	0.0029
10	18650	1855	Q16	1	MID	9.99	0.0053
10	18650	1855	Q16	1	HIGH	9.98	0.0053
10	18650	1855	Q16	25	LOW	6.71	0.0036
10	18650	1855	Q16	25	MID	5.86	0.0031
10	18650	1855	Q16	25	HIGH	5.41	0.0029
10	18650	1855	Q16	50	LOW	9.29	0.0050
10	18900	1880	QPSK	1	LOW	7.92	0.0042
10	18900	1880	QPSK	1	MID	9.5	0.0050

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error (Hz)	Frequency Error (ppm)
				Size	Offset		
10	18900	1880	QPSK	1	HIGH	5.07	0.0026
10	18900	1880	QPSK	25	LOW	8.6	0.0045
10	18900	1880	QPSK	25	MID	5.7	0.0030
10	18900	1880	QPSK	25	HIGH	7.97	0.0042
10	18900	1880	QPSK	50	LOW	9.58	0.0050
10	18900	1880	Q16	1	LOW	9.78	0.0052
10	18900	1880	Q16	1	MID	6.65	0.0035
10	18900	1880	Q16	1	HIGH	5.01	0.0026
10	18900	1880	Q16	25	LOW	8.51	0.0045
10	18900	1880	Q16	25	MID	6.86	0.0036
10	18900	1880	Q16	25	HIGH	6.97	0.0037
10	18900	1880	Q16	50	LOW	9.87	0.0052
10	19150	1905	QPSK	1	LOW	8.92	0.0046
10	19150	1905	QPSK	1	MID	7.13	0.0037
10	19150	1905	QPSK	1	HIGH	8.49	0.0044
10	19150	1905	QPSK	25	LOW	7.39	0.0038
10	19150	1905	QPSK	25	MID	6.45	0.0033
10	19150	1905	QPSK	25	HIGH	6.69	0.0035
10	19150	1905	QPSK	50	LOW	9.78	0.0051
10	19150	1905	Q16	1	LOW	5.56	0.0029
10	19150	1905	Q16	1	MID	8.52	0.0044
10	19150	1905	Q16	1	HIGH	8.7	0.0045
10	19150	1905	Q16	25	LOW	8.9	0.0046
10	19150	1905	Q16	25	MID	8.41	0.0044
10	19150	1905	Q16	25	HIGH	5.97	0.0031
10	19150	1905	Q16	50	LOW	7.93	0.0041
15	18675	1857.5	QPSK	1	LOW	7.4	0.0039
15	18675	1857.5	QPSK	1	MID	6.99	0.0037
15	18675	1857.5	QPSK	1	HIGH	8.98	0.0048
15	18675	1857.5	QPSK	36	LOW	7.67	0.0041
15	18675	1857.5	QPSK	36	MID	6.27	0.0033
15	18675	1857.5	QPSK	36	HIGH	7.63	0.0041
15	18675	1857.5	QPSK	75	LOW	7.11	0.0038
15	18675	1857.5	Q16	1	LOW	5.18	0.0027
15	18675	1857.5	Q16	1	MID	8.36	0.0045
15	18675	1857.5	Q16	1	HIGH	6.49	0.0034

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error (Hz)	Frequency Error (ppm)
				Size	Offset		
15	18675	1857.5	Q16	36	LOW	8.16	0.0043
15	18675	1857.5	Q16	36	MID	9.53	0.0051
15	18675	1857.5	Q16	36	HIGH	5.1	0.0027
15	18675	1857.5	Q16	75	LOW	5.83	0.0031
15	18900	1880	QPSK	1	LOW	7.63	0.0040
15	18900	1880	QPSK	1	MID	6.49	0.0034
15	18900	1880	QPSK	1	HIGH	8.28	0.0044
15	18900	1880	QPSK	36	LOW	7.05	0.0037
15	18900	1880	QPSK	36	MID	6.09	0.0032
15	18900	1880	QPSK	36	HIGH	7.09	0.0037
15	18900	1880	QPSK	75	LOW	5	0.0026
15	18900	1880	Q16	1	LOW	5.8	0.0030
15	18900	1880	Q16	1	MID	6.95	0.0036
15	18900	1880	Q16	1	HIGH	7.22	0.0038
15	18900	1880	Q16	36	LOW	7.13	0.0037
15	18900	1880	Q16	36	MID	6.14	0.0032
15	18900	1880	Q16	36	HIGH	7.91	0.0042
15	18900	1880	Q16	75	LOW	7.76	0.0041
15	19125	1902.5	QPSK	1	LOW	6.36	0.0033
15	19125	1902.5	QPSK	1	MID	8.59	0.0045
15	19125	1902.5	QPSK	1	HIGH	7.51	0.0039
15	19125	1902.5	QPSK	36	LOW	5.05	0.0026
15	19125	1902.5	QPSK	36	MID	9.1	0.0047
15	19125	1902.5	QPSK	36	HIGH	7.13	0.0037
15	19125	1902.5	QPSK	75	LOW	9.85	0.0051
15	19125	1902.5	Q16	1	LOW	8.06	0.0042
15	19125	1902.5	Q16	1	MID	5.18	0.0027
15	19125	1902.5	Q16	1	HIGH	9.99	0.0052
15	19125	1902.5	Q16	36	LOW	9.3	0.0048
15	19125	1902.5	Q16	36	MID	5.9	0.0031
15	19125	1902.5	Q16	36	HIGH	9.2	0.0048
15	19125	1902.5	Q16	75	LOW	5.94	0.0031
20	18700	1860	QPSK	1	LOW	5.69	0.0030
20	18700	1860	QPSK	1	MID	8.24	0.0044
20	18700	1860	QPSK	1	HIGH	6.67	0.0035
20	18700	1860	QPSK	50	LOW	9.59	0.0051

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error (Hz)	Frequency Error (ppm)
				Size	Offset		
20	18700	1860	QPSK	50	MID	8.87	0.0047
20	18700	1860	QPSK	50	HIGH	7.7	0.0041
20	18700	1860	QPSK	100	LOW	7.31	0.0039
20	18700	1860	Q16	1	LOW	7.37	0.0039
20	18700	1860	Q16	1	MID	6.22	0.0033
20	18700	1860	Q16	1	HIGH	9.51	0.0051
20	18700	1860	Q16	50	LOW	5.56	0.0029
20	18700	1860	Q16	50	MID	8.14	0.0043
20	18700	1860	Q16	50	HIGH	7.21	0.0038
20	18700	1860	Q16	100	LOW	5.87	0.0031
20	18900	1880	QPSK	1	LOW	6.25	0.0033
20	18900	1880	QPSK	1	MID	9.54	0.0050
20	18900	1880	QPSK	1	HIGH	5.64	0.0030
20	18900	1880	QPSK	50	LOW	8.69	0.0046
20	18900	1880	QPSK	50	MID	6.83	0.0036
20	18900	1880	QPSK	50	HIGH	9.76	0.0051
20	18900	1880	QPSK	100	LOW	7.84	0.0041
20	18900	1880	Q16	1	LOW	5.71	0.0030
20	18900	1880	Q16	1	MID	7.92	0.0042
20	18900	1880	Q16	1	HIGH	9.23	0.0049
20	18900	1880	Q16	50	LOW	9.14	0.0048
20	18900	1880	Q16	50	MID	8.29	0.0044
20	18900	1880	Q16	50	HIGH	10	0.0053
20	18900	1880	Q16	100	LOW	5.4	0.0028
20	19100	1900	QPSK	1	LOW	8.28	0.0043
20	19100	1900	QPSK	1	MID	7.45	0.0039
20	19100	1900	QPSK	1	HIGH	8.78	0.0046
20	19100	1900	QPSK	50	LOW	6.96	0.0036
20	19100	1900	QPSK	50	MID	5.23	0.0027
20	19100	1900	QPSK	50	HIGH	6.47	0.0034
20	19100	1900	QPSK	100	LOW	9.14	0.0048
20	19100	1900	Q16	1	LOW	9.19	0.0048
20	19100	1900	Q16	1	MID	7.26	0.0038
20	19100	1900	Q16	1	HIGH	5.13	0.0027
20	19100	1900	Q16	50	LOW	6.77	0.0035
20	19100	1900	Q16	50	MID	7.34	0.0038

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
20	19100	1900	Q16	50	HIGH	5.75	0.0030
20	19100	1900	Q16	100	LOW	7.54	0.0039

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
1.4	19957	1710.7	QPSK	1	LOW	8.93	0.0052
1.4	19957	1710.7	QPSK	1	MID	5.57	0.0032
1.4	19957	1710.7	QPSK	1	HIGH	7.7	0.0045
1.4	19957	1710.7	QPSK	3	LOW	9.76	0.0057
1.4	19957	1710.7	QPSK	3	MID	8.72	0.0050
1.4	19957	1710.7	QPSK	3	HIGH	8.67	0.0050
1.4	19957	1710.7	QPSK	6	LOW	6.79	0.0039
1.4	19957	1710.7	Q16	1	LOW	8.75	0.0051
1.4	19957	1710.7	Q16	1	MID	8.34	0.0048
1.4	19957	1710.7	Q16	1	HIGH	6.73	0.0039
1.4	19957	1710.7	Q16	3	LOW	7.64	0.0044
1.4	19957	1710.7	Q16	3	MID	5.36	0.0031
1.4	19957	1710.7	Q16	3	HIGH	9.42	0.0055
1.4	19957	1710.7	Q16	6	LOW	7.32	0.0042
1.4	20393	1754.3	QPSK	1	LOW	8.13	0.0046
1.4	20393	1754.3	QPSK	1	MID	7.53	0.0042
1.4	20393	1754.3	QPSK	1	HIGH	8.39	0.0047
1.4	20393	1754.3	QPSK	3	LOW	6.02	0.0034
1.4	20393	1754.3	QPSK	3	MID	5.54	0.0031
1.4	20393	1754.3	QPSK	3	HIGH	6.22	0.0035
1.4	20393	1754.3	QPSK	6	LOW	7.37	0.0042
1.4	20393	1754.3	Q16	1	LOW	7.51	0.0042
1.4	20393	1754.3	Q16	1	MID	9.02	0.0051
1.4	20393	1754.3	Q16	1	HIGH	5.57	0.0031
1.4	20393	1754.3	Q16	3	LOW	8.22	0.0046
1.4	20393	1754.3	Q16	3	MID	6.12	0.0034
1.4	20393	1754.3	Q16	3	HIGH	9.89	0.0056
1.4	20393	1754.3	Q16	6	LOW	7.64	0.0043
1.4	20175	1732.5	QPSK	1	LOW	6.29	0.0036
1.4	20175	1732.5	QPSK	1	MID	7.72	0.0044
1.4	20175	1732.5	QPSK	1	HIGH	8.01	0.0046
1.4	20175	1732.5	QPSK	3	LOW	9.41	0.0054
1.4	20175	1732.5	QPSK	3	MID	5.34	0.0030
1.4	20175	1732.5	QPSK	3	HIGH	5.83	0.0033
1.4	20175	1732.5	QPSK	6	LOW	9.92	0.0057

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
1.4	20175	1732.5	Q16	1	LOW	6.55	0.0037
1.4	20175	1732.5	Q16	1	MID	7.09	0.0040
1.4	20175	1732.5	Q16	1	HIGH	5.87	0.0033
1.4	20175	1732.5	Q16	3	LOW	8.87	0.0051
1.4	20175	1732.5	Q16	3	MID	8.94	0.0051
1.4	20175	1732.5	Q16	3	HIGH	9.1	0.0052
1.4	20175	1732.5	Q16	6	LOW	6.59	0.0038
3	19965	1711.5	QPSK	1	LOW	9.09	0.0053
3	19965	1711.5	QPSK	1	MID	5.79	0.0033
3	19965	1711.5	QPSK	1	HIGH	8.59	0.0050
3	19965	1711.5	QPSK	8	LOW	8.96	0.0052
3	19965	1711.5	QPSK	8	MID	9.12	0.0053
3	19965	1711.5	QPSK	8	HIGH	5.06	0.0029
3	19965	1711.5	QPSK	15	LOW	5.23	0.0030
3	19965	1711.5	Q16	1	LOW	8.52	0.0049
3	19965	1711.5	Q16	1	MID	7.44	0.0043
3	19965	1711.5	Q16	1	HIGH	6.78	0.0039
3	19965	1711.5	Q16	8	LOW	5.17	0.0030
3	19965	1711.5	Q16	8	MID	7.82	0.0045
3	19965	1711.5	Q16	8	HIGH	5.63	0.0032
3	19965	1711.5	Q16	15	LOW	9.24	0.0053
3	20385	1753.5	QPSK	1	LOW	9.98	0.0056
3	20385	1753.5	QPSK	1	MID	6.1	0.0034
3	20385	1753.5	QPSK	1	HIGH	6.99	0.0039
3	20385	1753.5	QPSK	8	LOW	7.26	0.0041
3	20385	1753.5	QPSK	8	MID	5.39	0.0030
3	20385	1753.5	QPSK	8	HIGH	8.19	0.0046
3	20385	1753.5	QPSK	15	LOW	6.69	0.0038
3	20385	1753.5	Q16	1	LOW	7.29	0.0041
3	20385	1753.5	Q16	1	MID	9.84	0.0056
3	20385	1753.5	Q16	1	HIGH	9.08	0.0051
3	20385	1753.5	Q16	8	LOW	5.33	0.0030
3	20385	1753.5	Q16	8	MID	9.5	0.0054
3	20385	1753.5	Q16	8	HIGH	9.5	0.0054
3	20385	1753.5	Q16	15	LOW	8.02	0.0045
3	20175	1732.5	QPSK	1	LOW	5.26	0.0030

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
3	20175	1732.5	QPSK	1	MID	5.43	0.0031
3	20175	1732.5	QPSK	1	HIGH	6.5	0.0037
3	20175	1732.5	QPSK	8	LOW	7.43	0.0042
3	20175	1732.5	QPSK	8	MID	8.47	0.0048
3	20175	1732.5	QPSK	8	HIGH	7.59	0.0043
3	20175	1732.5	QPSK	15	LOW	7.77	0.0044
3	20175	1732.5	Q16	1	LOW	7.52	0.0043
3	20175	1732.5	Q16	1	MID	7.8	0.0045
3	20175	1732.5	Q16	1	HIGH	5.76	0.0033
3	20175	1732.5	Q16	8	LOW	7.08	0.0040
3	20175	1732.5	Q16	8	MID	6.18	0.0035
3	20175	1732.5	Q16	8	HIGH	8.32	0.0048
3	20175	1732.5	Q16	15	LOW	5.14	0.0029
5	19975	1712.5	QPSK	1	LOW	6.85	0.004
5	19975	1712.5	QPSK	1	MID	8.66	0.0050
5	19975	1712.5	QPSK	1	HIGH	8.22	0.0048
5	19975	1712.5	QPSK	12	LOW	8.78	0.0051
5	19975	1712.5	QPSK	12	MID	9.47	0.0055
5	19975	1712.5	QPSK	12	HIGH	6.95	0.0040
5	19975	1712.5	QPSK	25	LOW	7.66	0.0044
5	19975	1712.5	Q16	1	LOW	8.45	0.0049
5	19975	1712.5	Q16	1	MID	9.57	0.0055
5	19975	1712.5	Q16	1	HIGH	6.89	0.0040
5	19975	1712.5	Q16	12	LOW	8.08	0.0047
5	19975	1712.5	Q16	12	MID	9.51	0.0055
5	19975	1712.5	Q16	12	HIGH	8.1	0.0047
5	19975	1712.5	Q16	25	LOW	9.8	0.0057
5	20375	1752.5	QPSK	1	LOW	5.93	0.0033
5	20375	1752.5	QPSK	1	MID	9.66	0.0055
5	20375	1752.5	QPSK	1	HIGH	9.48	0.0054
5	20375	1752.5	QPSK	12	LOW	5.32	0.0030
5	20375	1752.5	QPSK	12	MID	7.16	0.0040
5	20375	1752.5	QPSK	12	HIGH	8.36	0.0047
5	20375	1752.5	QPSK	25	LOW	6.72	0.0038
5	20375	1752.5	Q16	1	LOW	7.25	0.0041
5	20375	1752.5	Q16	1	MID	6.99	0.0039

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
5	20375	1752.5	Q16	1	HIGH	8.46	0.0048
5	20375	1752.5	Q16	12	LOW	7.6	0.0043
5	20375	1752.5	Q16	12	MID	6.52	0.0037
5	20375	1752.5	Q16	12	HIGH	7.18	0.0040
5	20375	1752.5	Q16	25	LOW	8.43	0.0048
5	20175	1732.5	QPSK	1	LOW	8.97	0.0051
5	20175	1732.5	QPSK	1	MID	9.17	0.0052
5	20175	1732.5	QPSK	1	HIGH	6.44	0.0037
5	20175	1732.5	QPSK	12	LOW	5.22	0.0030
5	20175	1732.5	QPSK	12	MID	8.59	0.0049
5	20175	1732.5	QPSK	12	HIGH	5.92	0.0034
5	20175	1732.5	QPSK	25	LOW	8.89	0.0051
5	20175	1732.5	Q16	1	LOW	9.79	0.0056
5	20175	1732.5	Q16	1	MID	9.85	0.0056
5	20175	1732.5	Q16	1	HIGH	8	0.0046
5	20175	1732.5	Q16	12	LOW	9.92	0.0057
5	20175	1732.5	Q16	12	MID	8.23	0.0047
5	20175	1732.5	Q16	12	HIGH	8.15	0.0047
5	20175	1732.5	Q16	25	LOW	8.41	0.0048
10	20000	1715	QPSK	1	LOW	7.57	0.0044
10	20000	1715	QPSK	1	MID	8.05	0.0046
10	20000	1715	QPSK	1	HIGH	7.79	0.0045
10	20000	1715	QPSK	25	LOW	5.75	0.0033
10	20000	1715	QPSK	25	MID	7.54	0.0043
10	20000	1715	QPSK	25	HIGH	5.57	0.0032
10	20000	1715	QPSK	50	LOW	6.35	0.0037
10	20000	1715	Q16	1	LOW	5.62	0.0032
10	20000	1715	Q16	1	MID	6.49	0.0037
10	20000	1715	Q16	1	HIGH	6.04	0.0035
10	20000	1715	Q16	25	LOW	8.55	0.0049
10	20000	1715	Q16	25	MID	9.87	0.0057
10	20000	1715	Q16	25	HIGH	7.01	0.0040
10	20000	1715	Q16	50	LOW	7.14	0.0041
10	20350	1750	QPSK	1	LOW	9.66	0.0055
10	20350	1750	QPSK	1	MID	5.52	0.0031
10	20350	1750	QPSK	1	HIGH	6.04	0.0034

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
10	20350	1750	QPSK	25	LOW	8.46	0.0048
10	20350	1750	QPSK	25	MID	9.36	0.0053
10	20350	1750	QPSK	25	HIGH	8.32	0.0047
10	20350	1750	QPSK	50	LOW	7.33	0.0041
10	20350	1750	Q16	1	LOW	9.52	0.0054
10	20350	1750	Q16	1	MID	9.47	0.0054
10	20350	1750	Q16	1	HIGH	8.18	0.0046
10	20350	1750	Q16	25	LOW	9.88	0.0056
10	20350	1750	Q16	25	MID	6.63	0.0037
10	20350	1750	Q16	25	HIGH	9.73	0.0055
10	20350	1750	Q16	50	LOW	6.51	0.0037
10	20175	1732.5	QPSK	1	LOW	7.62	0.0043
10	20175	1732.5	QPSK	1	MID	8.87	0.0051
10	20175	1732.5	QPSK	1	HIGH	6.29	0.0036
10	20175	1732.5	QPSK	25	LOW	7.33	0.0042
10	20175	1732.5	QPSK	25	MID	8.77	0.0050
10	20175	1732.5	QPSK	25	HIGH	8.3	0.0047
10	20175	1732.5	QPSK	50	LOW	8.14	0.0046
10	20175	1732.5	Q16	1	LOW	5.34	0.0030
10	20175	1732.5	Q16	1	MID	5.94	0.0034
10	20175	1732.5	Q16	1	HIGH	6.54	0.0037
10	20175	1732.5	Q16	25	LOW	6.57	0.0037
10	20175	1732.5	Q16	25	MID	8.62	0.0049
10	20175	1732.5	Q16	25	HIGH	6.8	0.0039
10	20175	1732.5	Q16	50	LOW	7.92	0.0045
15	20025	1717.5	QPSK	1	LOW	9.01	0.0052
15	20025	1717.5	QPSK	1	MID	7.69	0.0044
15	20025	1717.5	QPSK	1	HIGH	6.62	0.0038
15	20025	1717.5	QPSK	36	LOW	7.37	0.0042
15	20025	1717.5	QPSK	36	MID	6.86	0.0039
15	20025	1717.5	QPSK	36	HIGH	5.63	0.0032
15	20025	1717.5	QPSK	75	LOW	5.54	0.0032
15	20025	1717.5	Q16	1	LOW	8.65	0.0050
15	20025	1717.5	Q16	1	MID	6.89	0.0040
15	20025	1717.5	Q16	1	HIGH	5.91	0.0034
15	20025	1717.5	Q16	36	LOW	8.6	0.0050

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
15	20025	1717.5	Q16	36	MID	8.74	0.0050
15	20025	1717.5	Q16	36	HIGH	9.33	0.0054
15	20025	1717.5	Q16	75	LOW	6.97	0.0050
15	20325	1747.5	QPSK	1	LOW	5.06	0.0054
15	20325	1747.5	QPSK	1	MID	5.08	0.0040
15	20325	1747.5	QPSK	1	HIGH	8.75	0.0028
15	20325	1747.5	QPSK	36	LOW	8.37	0.0029
15	20325	1747.5	QPSK	36	MID	6.72	0.0050
15	20325	1747.5	QPSK	36	HIGH	6.42	0.0047
15	20325	1747.5	QPSK	75	LOW	6.91	0.0038
15	20325	1747.5	Q16	1	LOW	6.22	0.0036
15	20325	1747.5	Q16	1	MID	9.7	0.0039
15	20325	1747.5	Q16	1	HIGH	8.26	0.0035
15	20325	1747.5	Q16	36	LOW	8.62	0.0055
15	20325	1747.5	Q16	36	MID	5.97	0.0047
15	20325	1747.5	Q16	36	HIGH	7.34	0.0049
15	20325	1747.5	Q16	75	LOW	9.44	0.0034
15	20175	1732.5	QPSK	1	LOW	5.5	0.0042
15	20175	1732.5	QPSK	1	MID	7.94	0.0054
15	20175	1732.5	QPSK	1	HIGH	9.44	0.0031
15	20175	1732.5	QPSK	36	LOW	8.49	0.0045
15	20175	1732.5	QPSK	36	MID	7.62	0.0054
15	20175	1732.5	QPSK	36	HIGH	7.82	0.0049
15	20175	1732.5	QPSK	75	LOW	7.36	0.0043
15	20175	1732.5	Q16	1	LOW	7.17	0.0045
15	20175	1732.5	Q16	1	MID	7.97	0.0042
15	20175	1732.5	Q16	1	HIGH	8.27	0.0041
15	20175	1732.5	Q16	36	LOW	9.79	0.0046
15	20175	1732.5	Q16	36	MID	5.13	0.0047
15	20175	1732.5	Q16	36	HIGH	9.86	0.0056
15	20175	1732.5	Q16	75	LOW	7.93	0.0029
20	20050	1720	QPSK	1	LOW	5.62	0.0056
20	20050	1720	QPSK	1	MID	5.8	0.0045
20	20050	1720	QPSK	1	HIGH	5.67	0.0032
20	20050	1720	QPSK	50	LOW	5.25	0.0033
20	20050	1720	QPSK	50	MID	5.63	0.0032

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
20	20050	1720	QPSK	50	HIGH	7.98	0.0046
20	20050	1720	QPSK	100	LOW	9.58	0.0055
20	20050	1720	Q16	1	LOW	6.02	0.0035
20	20050	1720	Q16	1	MID	7.81	0.0045
20	20050	1720	Q16	1	HIGH	7.5	0.0043
20	20050	1720	Q16	50	LOW	9.34	0.0054
20	20050	1720	Q16	50	MID	8.3	0.0048
20	20050	1720	Q16	50	HIGH	7.31	0.0042
20	20050	1720	Q16	100	LOW	6.1	0.0035
20	20300	1745	QPSK	1	LOW	5.28	0.0030
20	20300	1745	QPSK	1	MID	6	0.0034
20	20300	1745	QPSK	1	HIGH	9.39	0.0053
20	20300	1745	QPSK	50	LOW	6.95	0.0039
20	20300	1745	QPSK	50	MID	5.91	0.0033
20	20300	1745	QPSK	50	HIGH	9.74	0.0055
20	20300	1745	QPSK	100	LOW	7.15	0.0040
20	20300	1745	Q16	1	LOW	6.95	0.0039
20	20300	1745	Q16	1	MID	8.23	0.0047
20	20300	1745	Q16	1	HIGH	7.28	0.0041
20	20300	1745	Q16	50	LOW	8.53	0.0048
20	20300	1745	Q16	50	MID	9.03	0.0051
20	20300	1745	Q16	50	HIGH	5.83	0.0033
20	20300	1745	Q16	100	LOW	9.84	0.0056
20	20175	1732.5	QPSK	1	LOW	7	0.0040
20	20175	1732.5	QPSK	1	MID	5.37	0.0030
20	20175	1732.5	QPSK	1	HIGH	9.83	0.0056
20	20175	1732.5	QPSK	50	LOW	5.43	0.0031
20	20175	1732.5	QPSK	50	MID	7.27	0.0041
20	20175	1732.5	QPSK	50	HIGH	5.2	0.0030
20	20175	1732.5	QPSK	100	LOW	6.18	0.0035
20	20175	1732.5	Q16	1	LOW	6.84	0.0039
20	20175	1732.5	Q16	1	MID	8.47	0.0048
20	20175	1732.5	Q16	1	HIGH	7.08	0.0040
20	20175	1732.5	Q16	50	LOW	6.66	0.0038
20	20175	1732.5	Q16	50	MID	6.94	0.0040
20	20175	1732.5	Q16	50	HIGH	8.22	0.0047

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
20	20175	1732.5	Q16	100	LOW	9.4	0.0054

BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency error	Frequency Error
				Size	Offset	(Hz)	(ppm)
5	20775	2502.5	QPSK	1	LOW	6.06	0.0024
5	20775	2502.5	QPSK	1	MID	9.83	0.0039
5	20775	2502.5	QPSK	1	HIGH	9.21	0.0036
5	20775	2502.5	QPSK	12	LOW	6.08	0.0024
5	20775	2502.5	QPSK	12	MID	9.21	0.0036
5	20775	2502.5	QPSK	12	HIGH	9.78	0.0039
5	20775	2502.5	QPSK	25	LOW	9.74	0.0038
5	20775	2502.5	Q16	1	LOW	7.94	0.0031
5	20775	2502.5	Q16	1	MID	7.85	0.0031
5	20775	2502.5	Q16	1	HIGH	8.16	0.0032
5	20775	2502.5	Q16	12	LOW	8.41	0.0033
5	20775	2502.5	Q16	12	MID	6.29	0.0025
5	20775	2502.5	Q16	12	HIGH	6.66	0.0026
5	20775	2502.5	Q16	25	LOW	7.99	0.0031
5	21425	2567.5	QPSK	1	LOW	9.46	0.0036
5	21425	2567.5	QPSK	1	MID	8.16	0.0031
5	21425	2567.5	QPSK	1	HIGH	7.53	0.0029
5	21425	2567.5	QPSK	12	LOW	5	0.0019
5	21425	2567.5	QPSK	12	MID	6.09	0.0023
5	21425	2567.5	QPSK	12	HIGH	7.01	0.0027
5	21425	2567.5	QPSK	25	LOW	6.81	0.0026
5	21425	2567.5	Q16	1	LOW	9.8	0.0038
5	21425	2567.5	Q16	1	MID	6.41	0.0024
5	21425	2567.5	Q16	1	HIGH	9.71	0.0037
5	21425	2567.5	Q16	12	LOW	6.08	0.0023
5	21425	2567.5	Q16	12	MID	6.13	0.0023
5	21425	2567.5	Q16	12	HIGH	5.74	0.0022
5	21425	2567.5	Q16	25	LOW	5.7	0.0022
5	21100	2535	QPSK	1	LOW	8.3	0.0032
5	21100	2535	QPSK	1	MID	5.79	0.0022
5	21100	2535	QPSK	1	HIGH	5.79	0.0022
5	21100	2535	QPSK	12	LOW	6.87	0.0027
5	21100	2535	QPSK	12	MID	5.4	0.0021
5	21100	2535	QPSK	12	HIGH	7.9	0.0031
5	21100	2535	QPSK	25	LOW	5.79	0.0022

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency error	Frequency Error
				Size	Offset	(Hz)	(ppm)
5	21100	2535	QPSK	1	LOW	9.94	0.0039
5	21100	2535	QPSK	1	MID	8.62	0.0034
5	21100	2535	QPSK	1	HIGH	6.65	0.0026
5	21100	2535	QPSK	12	LOW	8.41	0.0033
5	21100	2535	QPSK	12	MID	5.08	0.0020
5	21100	2535	QPSK	12	HIGH	5.57	0.0021
5	21100	2535	QPSK	25	LOW	6.94	0.0027
10	20800	2505	QPSK	1	LOW	8.94	0.0035
10	20800	2505	QPSK	1	MID	9.87	0.0039
10	20800	2505	QPSK	1	HIGH	6.48	0.0025
10	20800	2505	QPSK	25	LOW	5.61	0.0022
10	20800	2505	QPSK	25	MID	9.14	0.0036
10	20800	2505	QPSK	25	HIGH	9.1	0.0036
10	20800	2505	QPSK	50	LOW	5.1	0.0020
10	20800	2505	Q16	1	LOW	7.5	0.0029
10	20800	2505	Q16	1	MID	6.75	0.0026
10	20800	2505	Q16	1	HIGH	7.14	0.0028
10	20800	2505	Q16	25	LOW	6.4	0.0025
10	20800	2505	Q16	25	MID	7.53	0.0030
10	20800	2505	Q16	25	HIGH	7.6	0.0030
10	20800	2505	Q16	50	LOW	5.27	0.0021
10	21400	2565	QPSK	1	LOW	9.61	0.0037
10	21400	2565	QPSK	1	MID	7.44	0.0029
10	21400	2565	QPSK	1	HIGH	5.63	0.0021
10	21400	2565	QPSK	25	LOW	7.34	0.0028
10	21400	2565	QPSK	25	MID	9.41	0.0036
10	21400	2565	QPSK	25	HIGH	6.6	0.0025
10	21400	2565	QPSK	50	LOW	5.33	0.0020
10	21400	2565	QPSK	1	LOW	9.27	0.0036
10	21400	2565	QPSK	1	MID	5.45	0.0021
10	21400	2565	QPSK	1	HIGH	9.14	0.0035
10	21400	2565	Q16	25	LOW	8.18	0.0031
10	21400	2565	Q16	25	MID	9.59	0.0037
10	21400	2565	Q16	25	HIGH	7.87	0.0030
10	21400	2565	Q16	50	LOW	5.54	0.0021
10	21100	2535	QPSK	1	LOW	8.89	0.0035

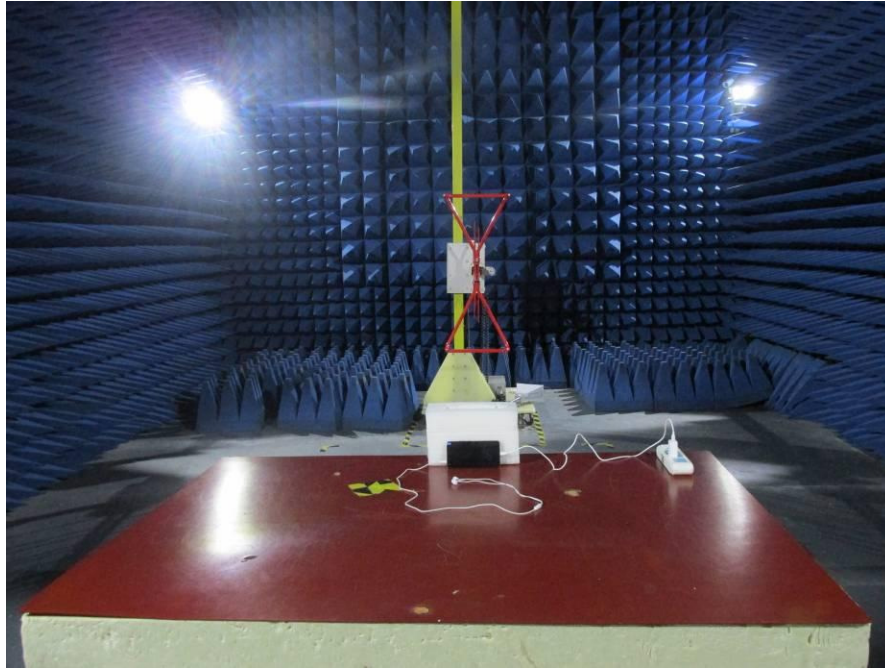
Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency error	Frequency Error
				Size	Offset	(Hz)	(ppm)
10	21100	2535	QPSK	1	MID	9.2	0.0036
10	21100	2535	QPSK	1	HIGH	6.47	0.0025
10	21100	2535	QPSK	25	LOW	7.17	0.0028
10	21100	2535	QPSK	25	MID	7.06	0.0027
10	21100	2535	QPSK	25	HIGH	7.36	0.0029
10	21100	2535	QPSK	50	LOW	9.43	0.0037
10	21100	2535	QPSK	1	LOW	5.86	0.0023
10	21100	2535	QPSK	1	MID	6.18	0.0024
10	21100	2535	QPSK	1	HIGH	10	0.0039
10	21100	2535	Q16	25	LOW	9.36	0.0036
10	21100	2535	Q16	25	MID	5.49	0.0021
10	21100	2535	Q16	25	HIGH	7.09	0.0027
10	21100	2535	Q16	50	LOW	9.46	0.0037
15	20825	2507.5	QPSK	1	LOW	5.21	0.0020
15	20825	2507.5	QPSK	1	MID	5.88	0.0023
15	20825	2507.5	QPSK	1	HIGH	9.34	0.0037
15	20825	2507.5	QPSK	36	LOW	7.51	0.0029
15	20825	2507.5	QPSK	36	MID	5.14	0.0020
15	20825	2507.5	QPSK	36	HIGH	5.94	0.0023
15	20825	2507.5	QPSK	75	LOW	5.37	0.0021
15	20825	2507.5	Q16	1	LOW	9.93	0.0039
15	20825	2507.5	Q16	1	MID	7.64	0.0030
15	20825	2507.5	Q16	1	HIGH	8.03	0.0032
15	20825	2507.5	Q16	36	LOW	8.48	0.0033
15	20825	2507.5	Q16	36	MID	6.67	0.0026
15	20825	2507.5	Q16	36	HIGH	7.11	0.0028
15	20825	2507.5	Q16	75	LOW	7.21	0.0028
15	21375	2562.5	QPSK	1	LOW	6.99	0.0027
15	21375	2562.5	QPSK	1	MID	5.76	0.0022
15	21375	2562.5	QPSK	1	HIGH	8.98	0.0035
15	21375	2562.5	QPSK	36	LOW	7.13	0.0027
15	21375	2562.5	QPSK	36	MID	6.3	0.0024
15	21375	2562.5	QPSK	36	HIGH	5.78	0.0022
15	21375	2562.5	QPSK	75	LOW	7.08	0.0027
15	21375	2562.5	Q16	1	LOW	8.3	0.0032
15	21375	2562.5	Q16	1	MID	8	0.0031

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency error	Frequency Error
				Size	Offset	(Hz)	(ppm)
15	21375	2562.5	Q16	1	HIGH	8.12	0.0031
15	21375	2562.5	Q16	36	LOW	6.85	0.0026
15	21375	2562.5	Q16	36	MID	9.22	0.0035
15	21375	2562.5	Q16	36	HIGH	6.58	0.0025
15	21375	2562.5	Q16	75	LOW	5.51	0.0021
15	21100	2535	QPSK	1	LOW	8.22	0.0032
15	21100	2535	QPSK	1	MID	6.47	0.0025
15	21100	2535	QPSK	1	HIGH	9.98	0.0039
15	21100	2535	QPSK	36	LOW	8.12	0.0032
15	21100	2535	QPSK	36	MID	5.24	0.0020
15	21100	2535	QPSK	36	HIGH	7.02	0.0027
15	21100	2535	QPSK	75	LOW	6.02	0.0023
15	21100	2535	Q16	1	LOW	7.51	0.0029
15	21100	2535	Q16	1	MID	5.02	0.0019
15	21100	2535	Q16	1	HIGH	9.38	0.0037
15	21100	2535	Q16	36	LOW	8.83	0.0034
15	21100	2535	Q16	36	MID	7.74	0.0030
15	21100	2535	Q16	36	HIGH	9.14	0.0036
15	21100	2535	Q16	75	LOW	6.76	0.0026
20	20850	2510	QPSK	1	LOW	6.06	0.0024
20	20850	2510	QPSK	1	MID	9.66	0.0038
20	20850	2510	QPSK	1	HIGH	8.41	0.0033
20	20850	2510	QPSK	50	LOW	9.06	0.0036
20	20850	2510	QPSK	50	MID	5.82	0.0023
20	20850	2510	QPSK	50	HIGH	7.1	0.0028
20	20850	2510	QPSK	100	LOW	8.63	0.0034
20	20850	2510	Q16	1	LOW	6.91	0.0027
20	20850	2510	Q16	1	MID	7.42	0.0029
20	20850	2510	Q16	1	HIGH	8.03	0.0031
20	20850	2510	Q16	50	LOW	6.67	0.0026
20	20850	2510	Q16	50	MID	9.73	0.0038
20	20850	2510	Q16	50	HIGH	8.24	0.0032
20	20850	2510	Q16	100	LOW	7.54	0.0030
20	21350	2560	QPSK	1	LOW	9.47	0.0036
20	21350	2560	QPSK	1	MID	6.8	0.0026
20	21350	2560	QPSK	1	HIGH	8.95	0.0034

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency error	Frequency Error
				Size	Offset	(Hz)	(ppm)
20	21350	2560	QPSK	50	LOW	8.81	0.0034
20	21350	2560	QPSK	50	MID	8.66	0.0033
20	21350	2560	QPSK	50	HIGH	6.32	0.0024
20	21350	2560	QPSK	100	LOW	7.99	0.0031
20	21350	2560	Q16	1	LOW	9.53	0.0037
20	21350	2560	Q16	1	MID	5.73	0.0022
20	21350	2560	Q16	1	HIGH	5.55	0.0021
20	21350	2560	Q16	50	LOW	9.25	0.0036
20	21350	2560	Q16	50	MID	8.35	0.0032
20	21350	2560	Q16	50	HIGH	8.23	0.0032
20	21350	2560	Q16	100	LOW	7.23	0.0028
20	21100	2535	QPSK	1	LOW	7.43	0.0029
20	21100	2535	QPSK	1	MID	5.33	0.0021
20	21100	2535	QPSK	1	HIGH	8.48	0.0033
20	21100	2535	QPSK	50	LOW	6.67	0.0026
20	21100	2535	QPSK	50	MID	6.46	0.0025
20	21100	2535	QPSK	50	HIGH	5.77	0.0022
20	21100	2535	QPSK	100	LOW	8	0.0031
20	21100	2535	Q16	1	LOW	9.11	0.0035
20	21100	2535	Q16	1	MID	9.34	0.0036
20	21100	2535	Q16	1	HIGH	8.01	0.0031
20	21100	2535	Q16	50	LOW	9.28	0.0036
20	21100	2535	Q16	50	MID	10	0.0039
20	21100	2535	Q16	50	HIGH	8.52	0.0033
20	21100	2535	Q16	100	LOW	7.81	0.0030

3 EUT TEST PHOTO

RADIATED EMISSION TEST
(Frequency from 30MHz to 1GHz)



RADIATED EMISSION TEST
(Frequency above 1GHz)



RF TEST



4 EUT PHOTO

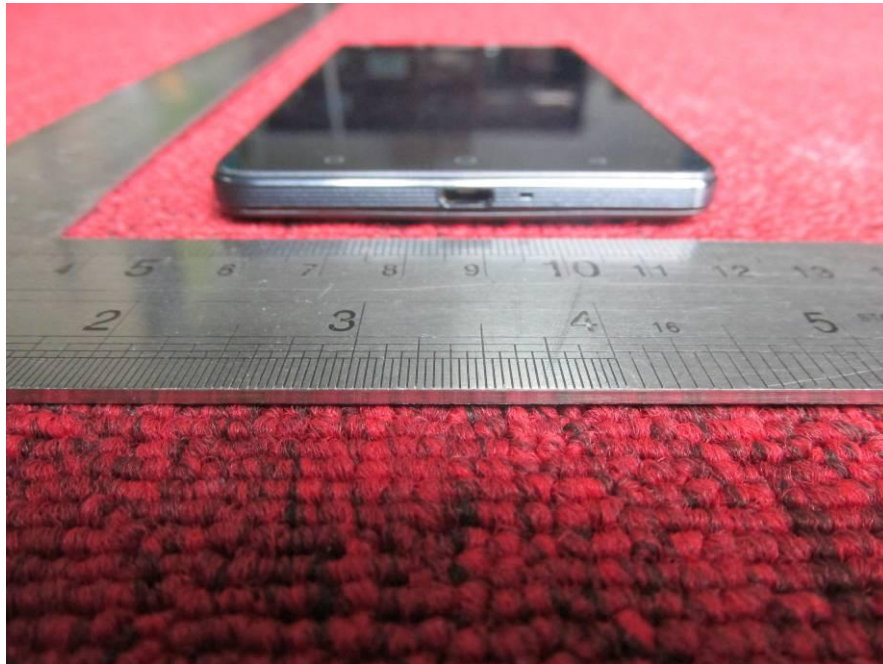
Appearance photograph of EUT



Appearance photograph of EUT



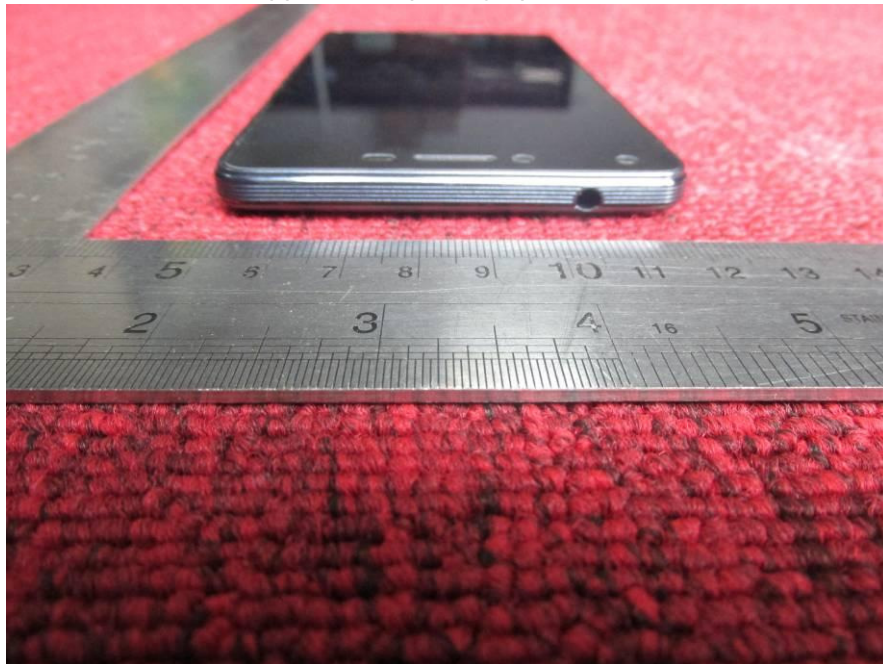
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



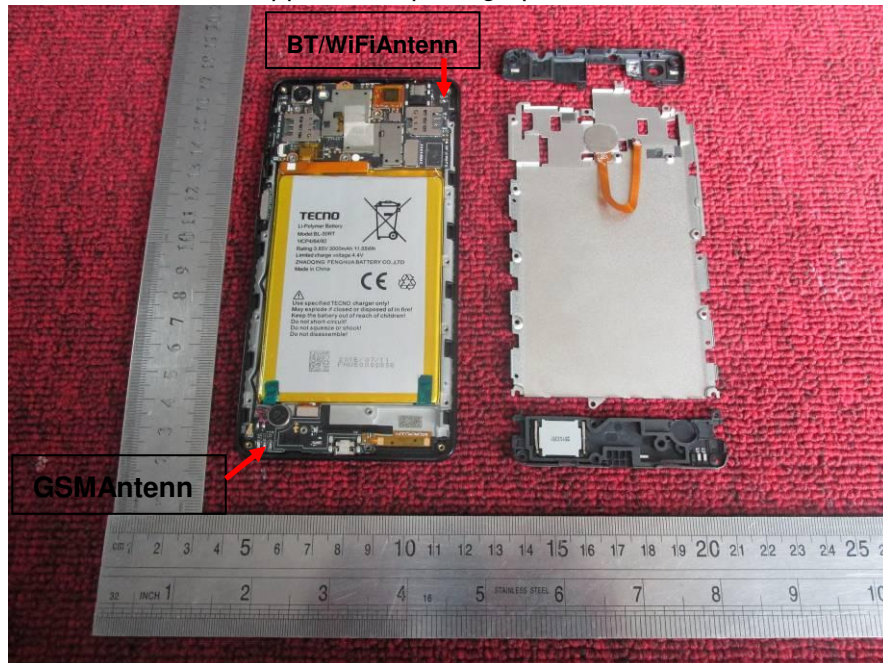
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



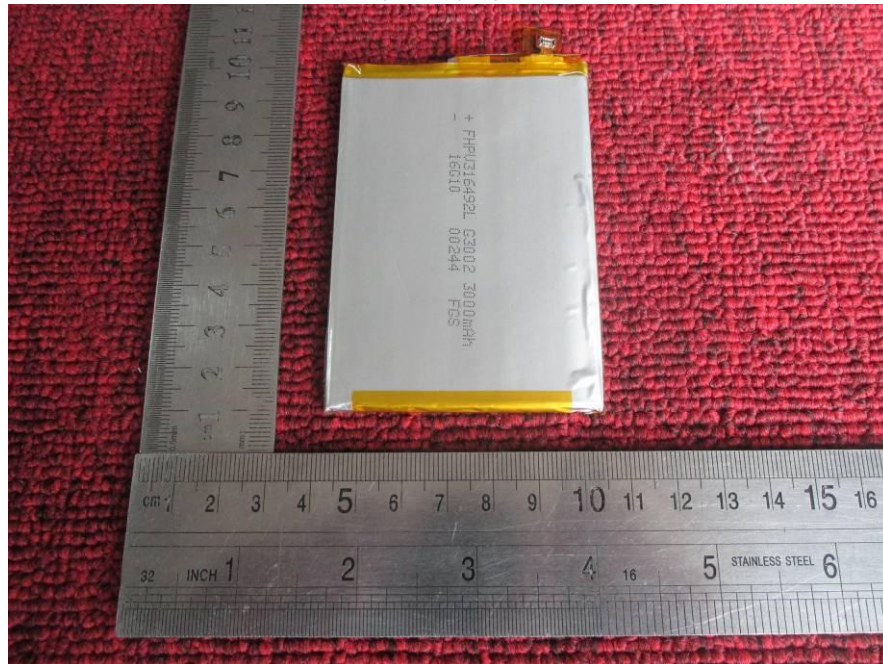
Internal photograph of EUT



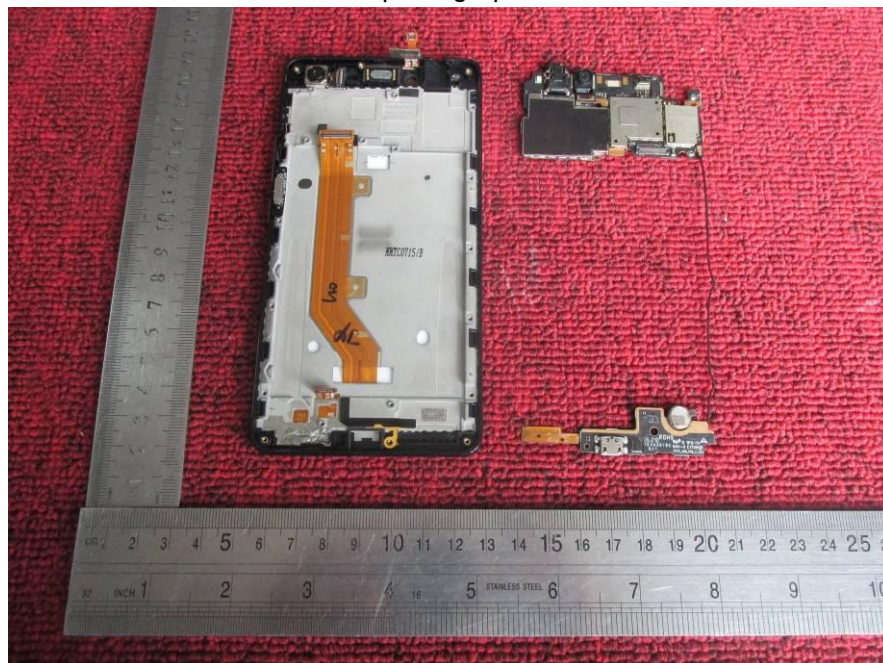
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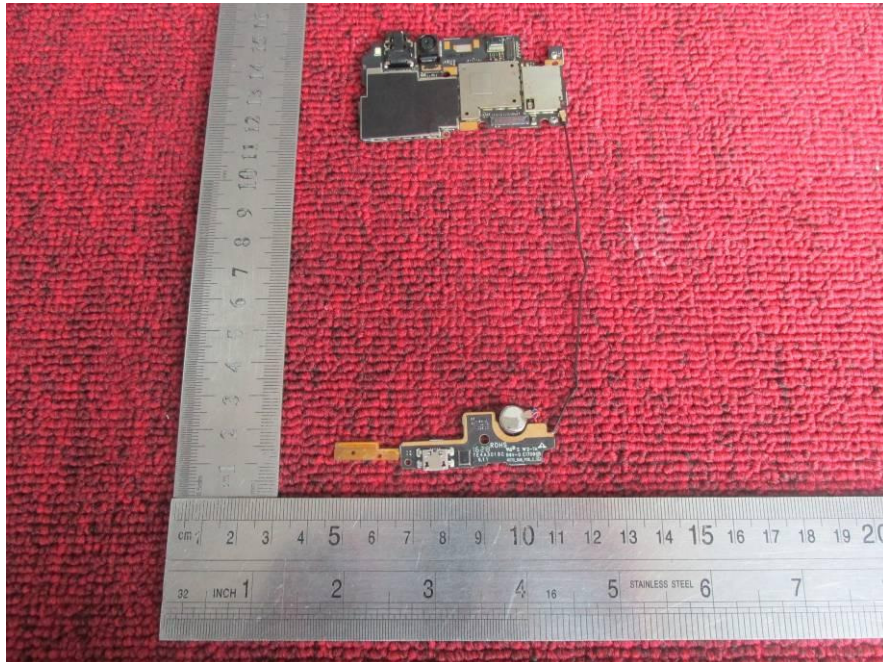
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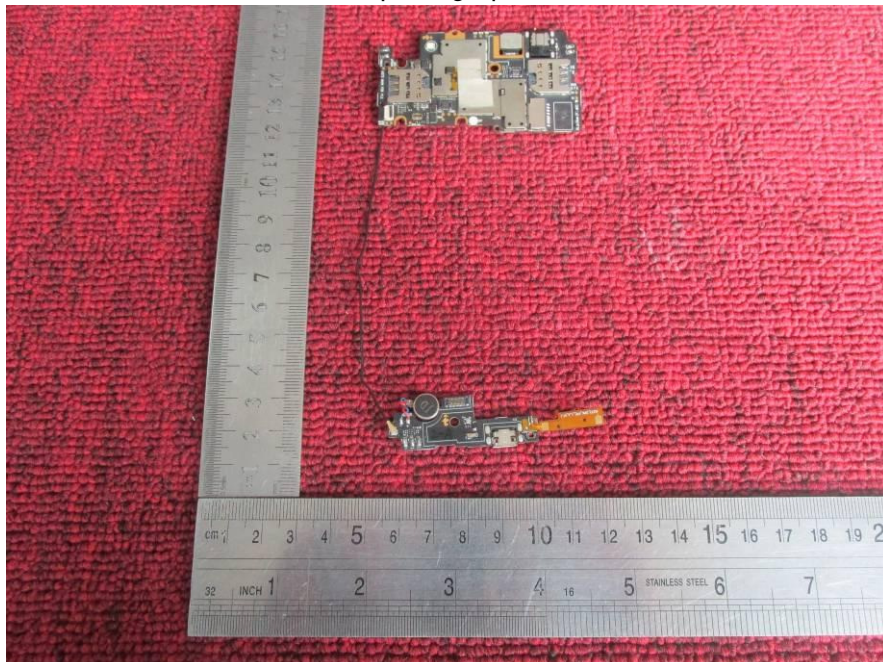
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Internal photograph of EUT



Internal photograph of EUT



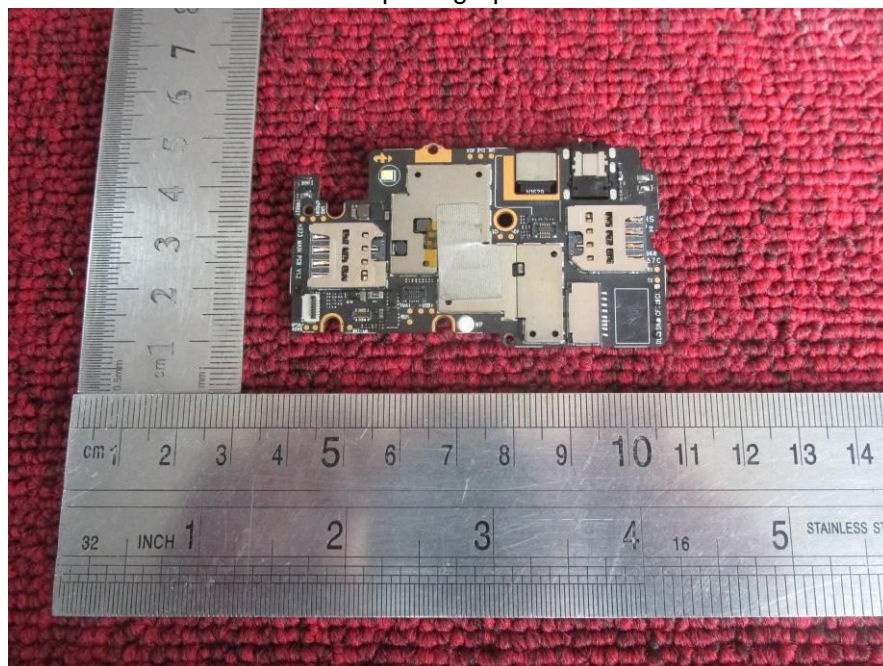
Internal photograph of EUT



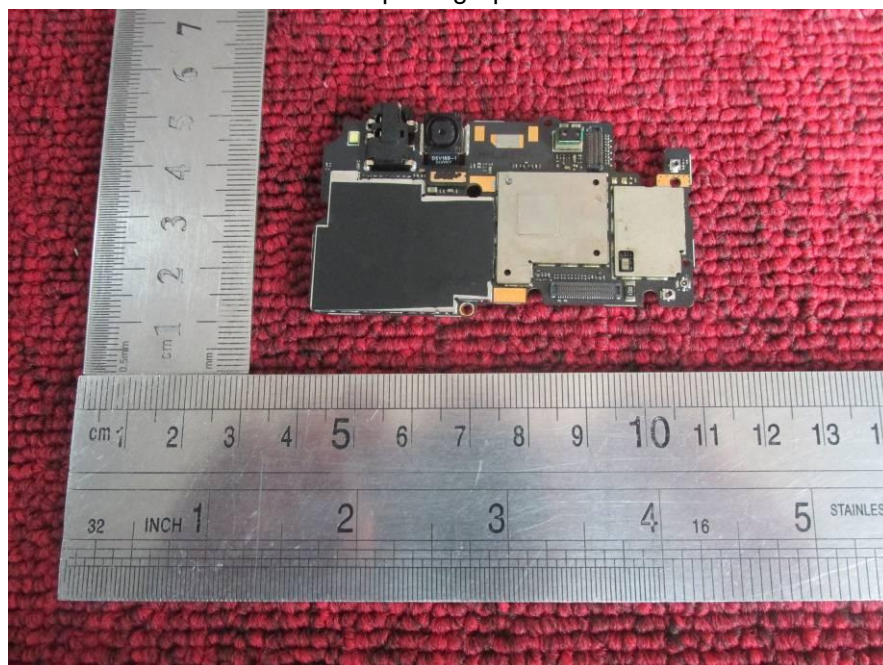
Internal photograph of EUT



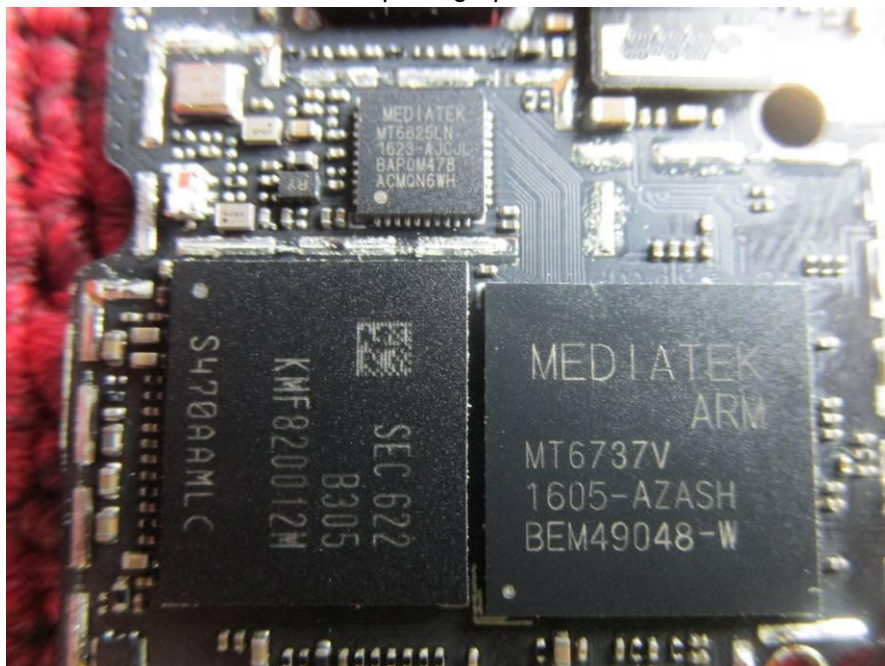
Internal photograph of EUT



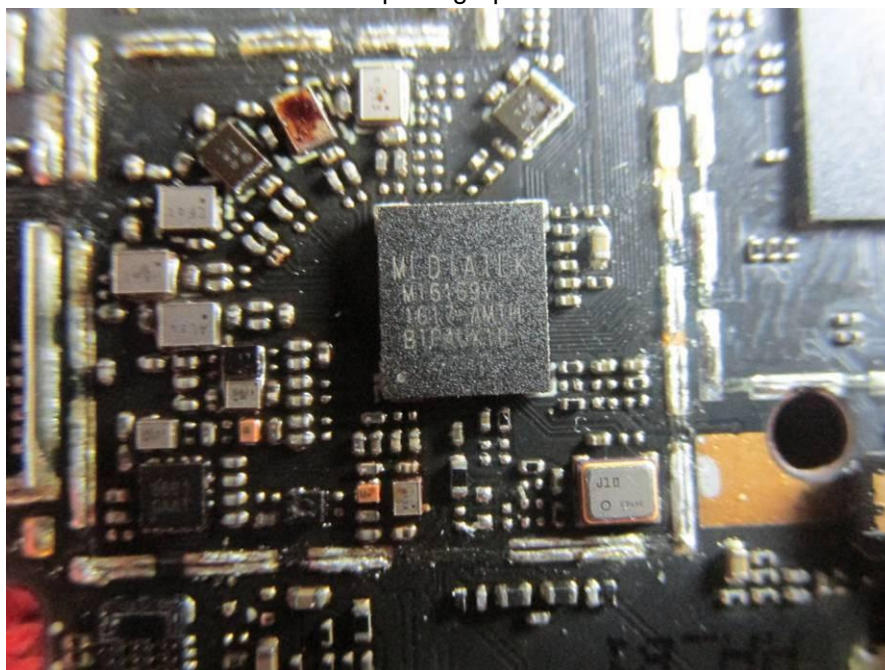
Internal photograph of EUT



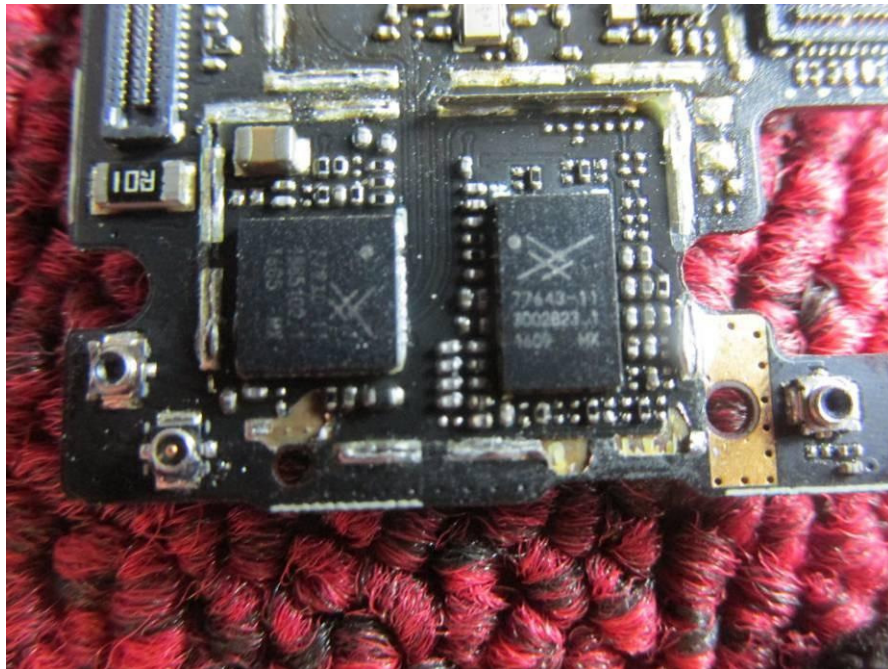
Internal photograph of EUT



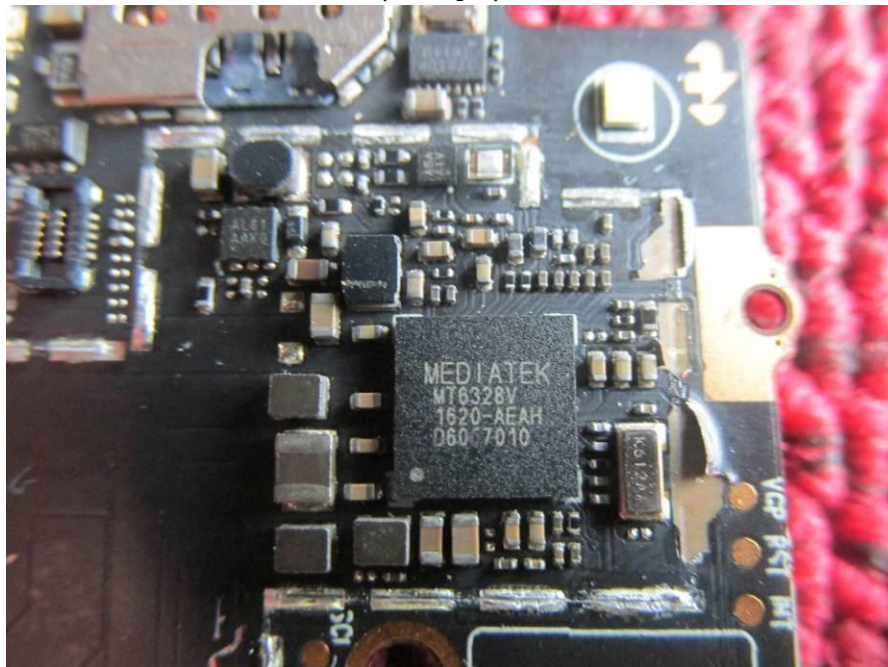
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



---END OF REPORT---