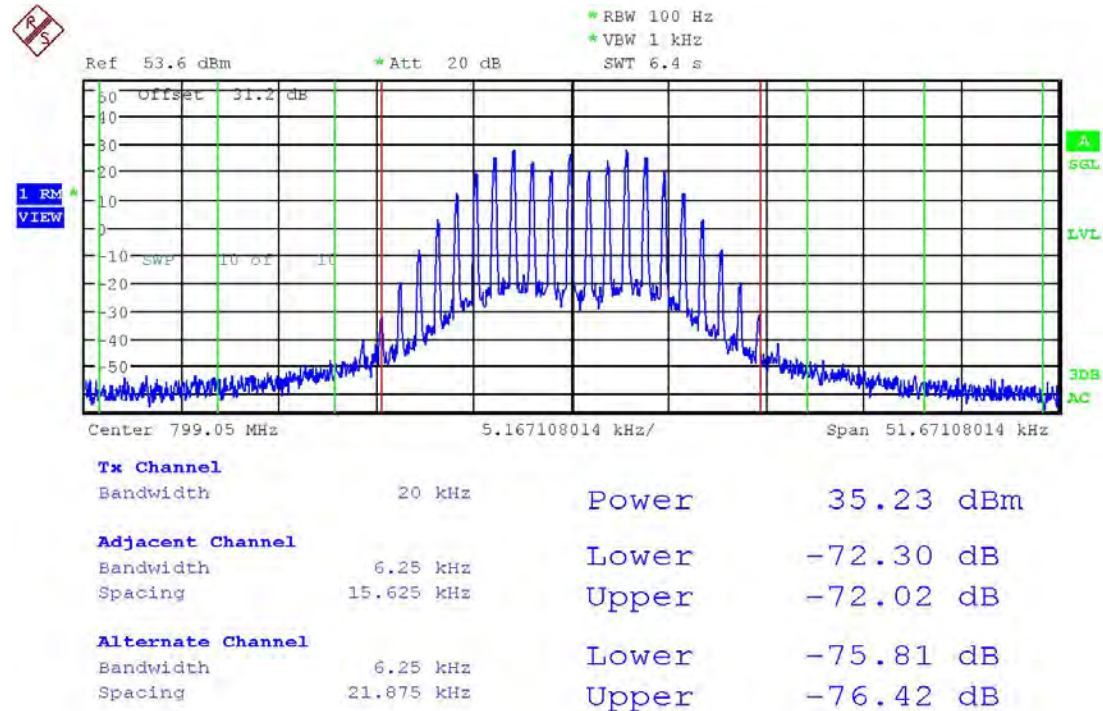


TEST FREQ. 799.05 MHz-16K0F3E

6.25 KHz Measurement Bandwidth



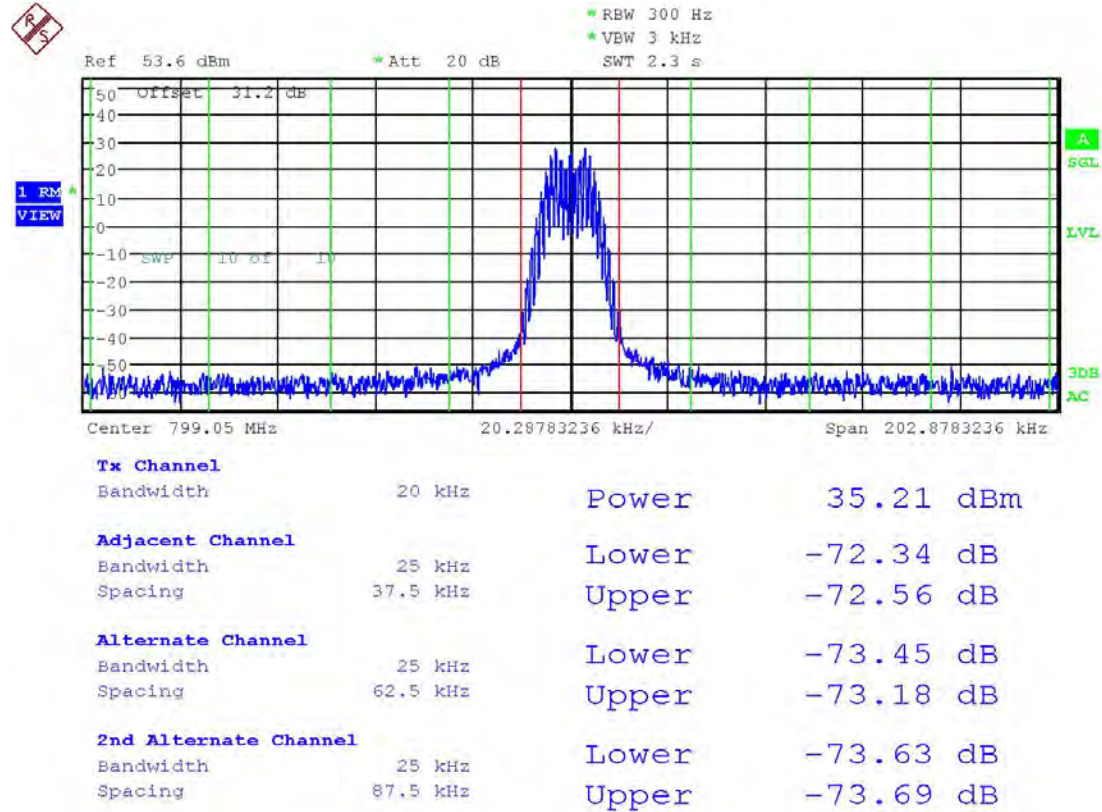
Date: 18.AUG.2015 10:21:11

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-16K0F3E

25 KHz Measurement Bandwidth



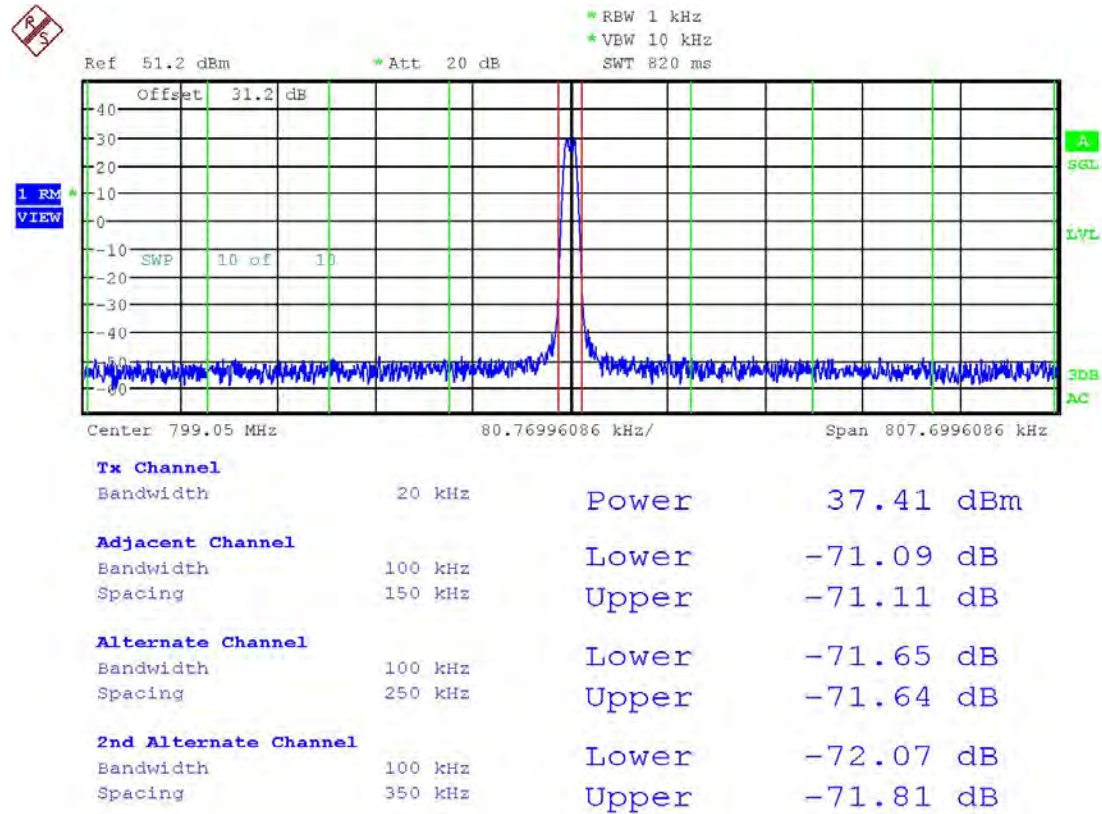
Date: 18.AUG.2015 10:23:43

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-16K0F3E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 10:24:31

Swept 30 KHz Bandwidth Measurement

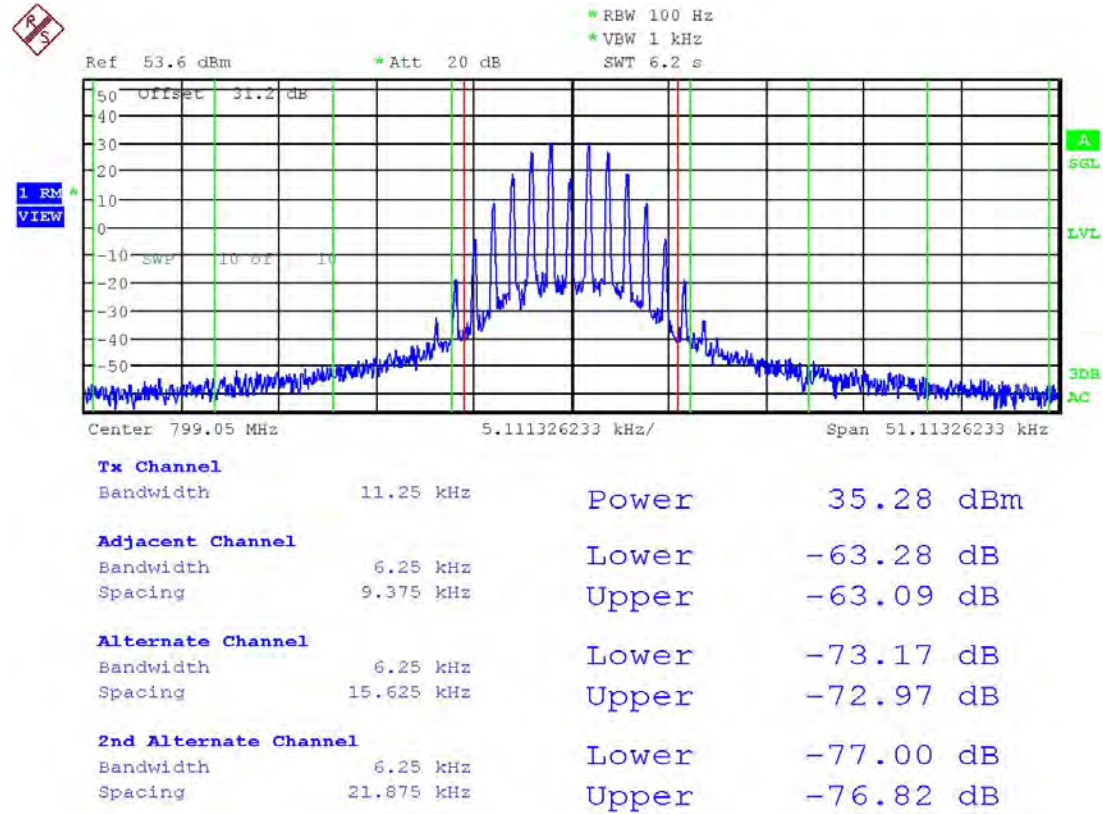
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.8	4.8
		Lower	-79.5	4.5
12 MHz to paired rx band	-75	-83.2		8.2
In the paired rx band	-100	-103.9		3.9

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-11K0F3E

6.25 KHz Measurement Bandwidth



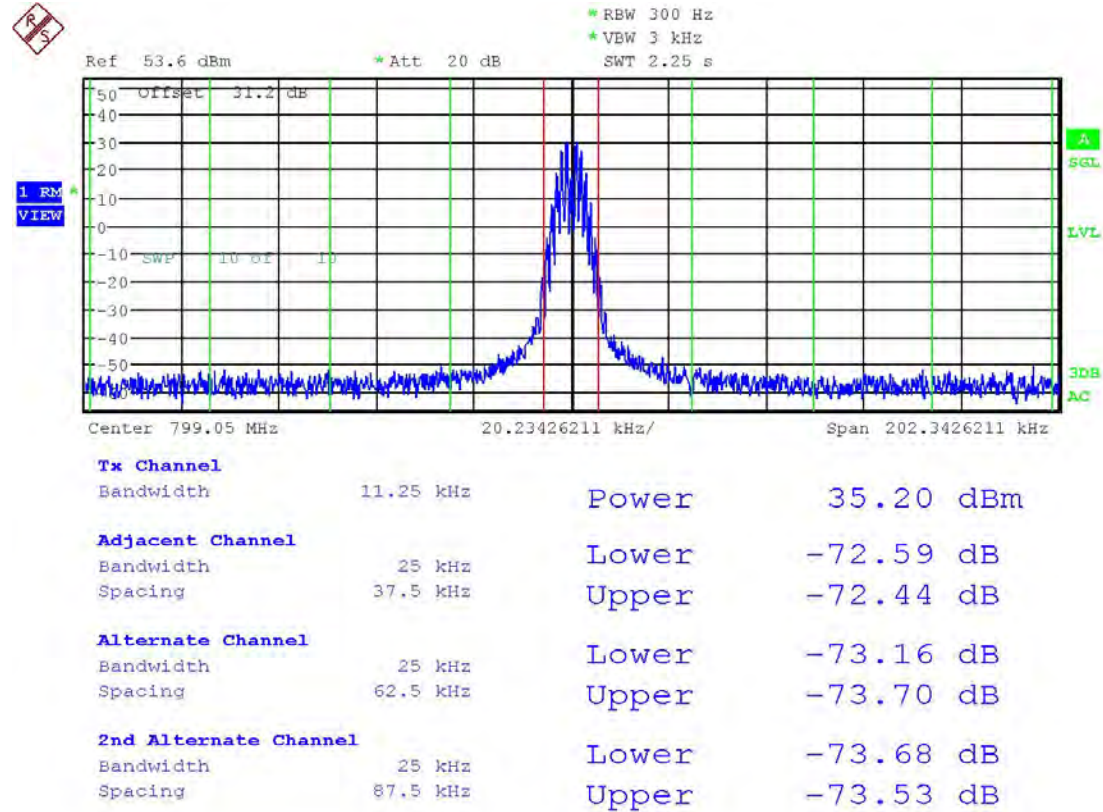
Date: 18.AUG.2015 10:17:45

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-11K0F3E

25 KHz Measurement Bandwidth



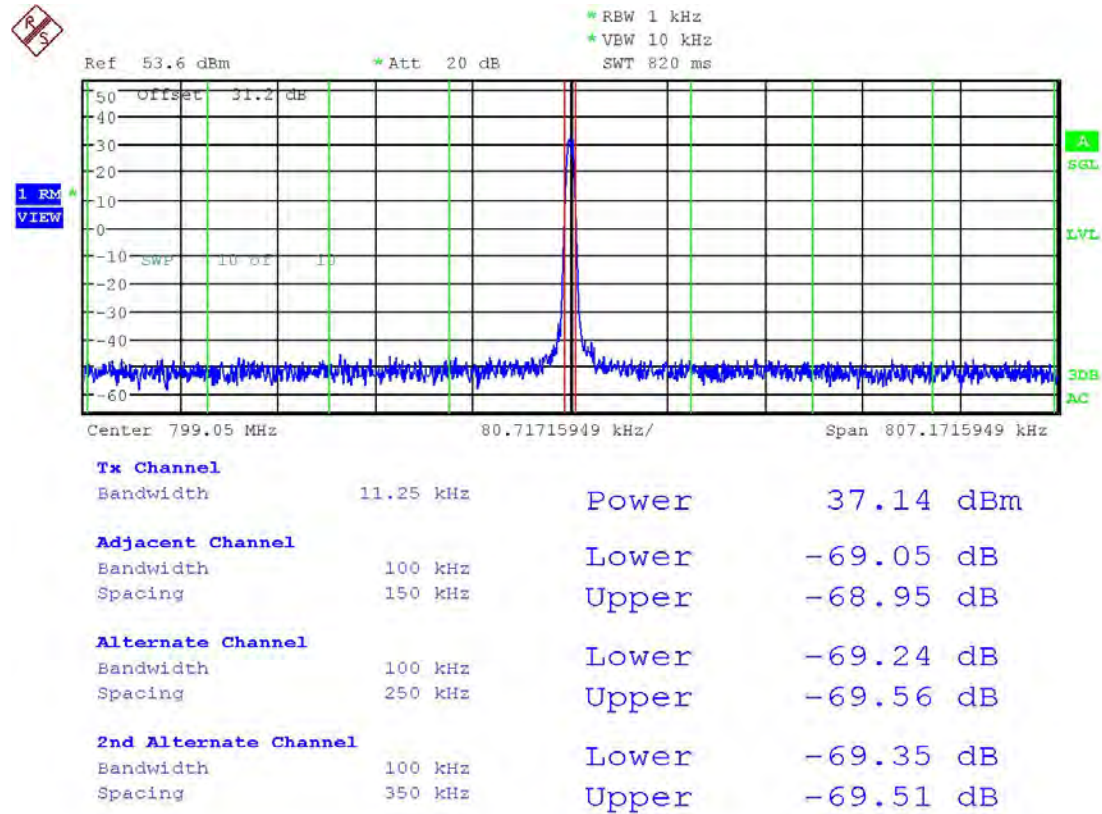
Date: 18.AUG.2015 10:18:41

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-11K0F3E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 10:19:11

Swept 30 KHz Bandwidth Measurement

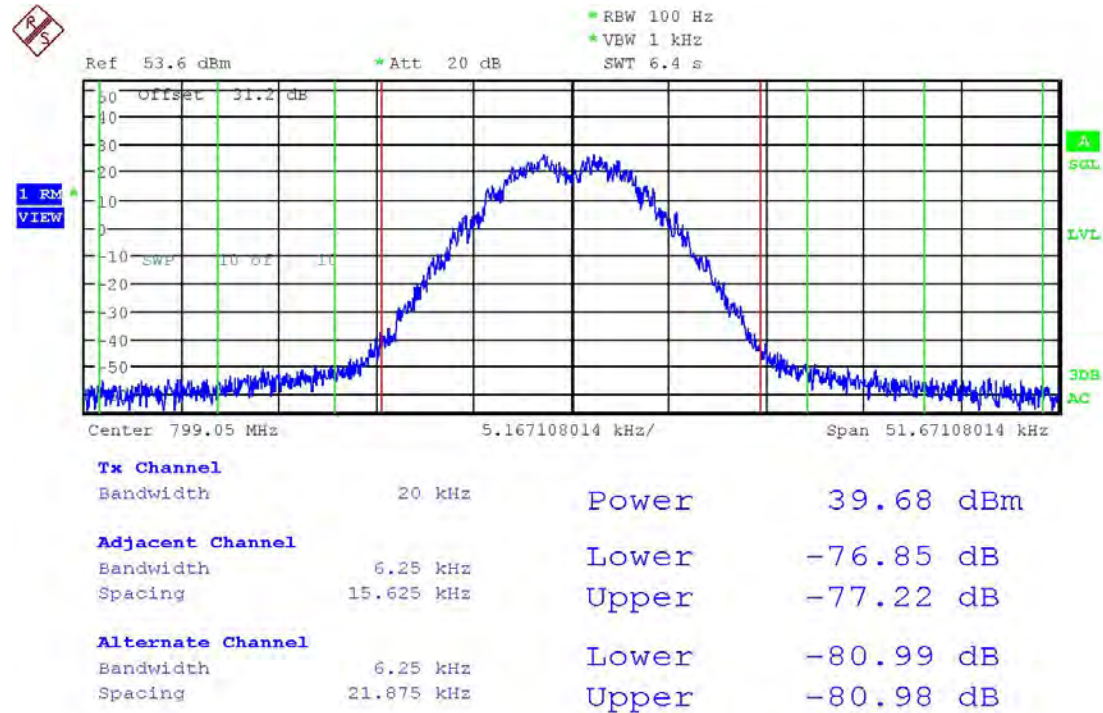
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-80.1	5.1
		Lower	-80.3	5.3
12 MHz to paired rx band	-75	-85.6		10.6
In the paired rx band	-100	-104.9		4.9

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-8K87F2E

6.25 KHz Measurement Bandwidth



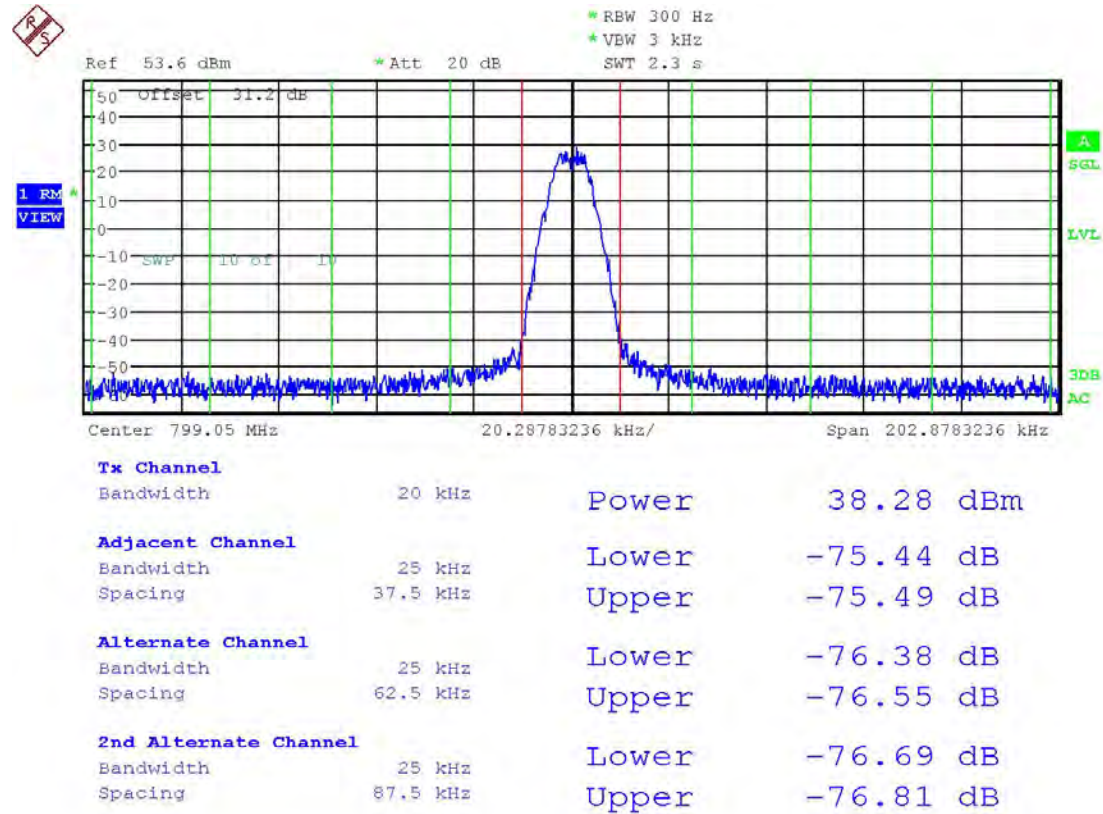
Date: 18.AUG.2015 10:26:09

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-8K87F2E

25 KHz Measurement Bandwidth



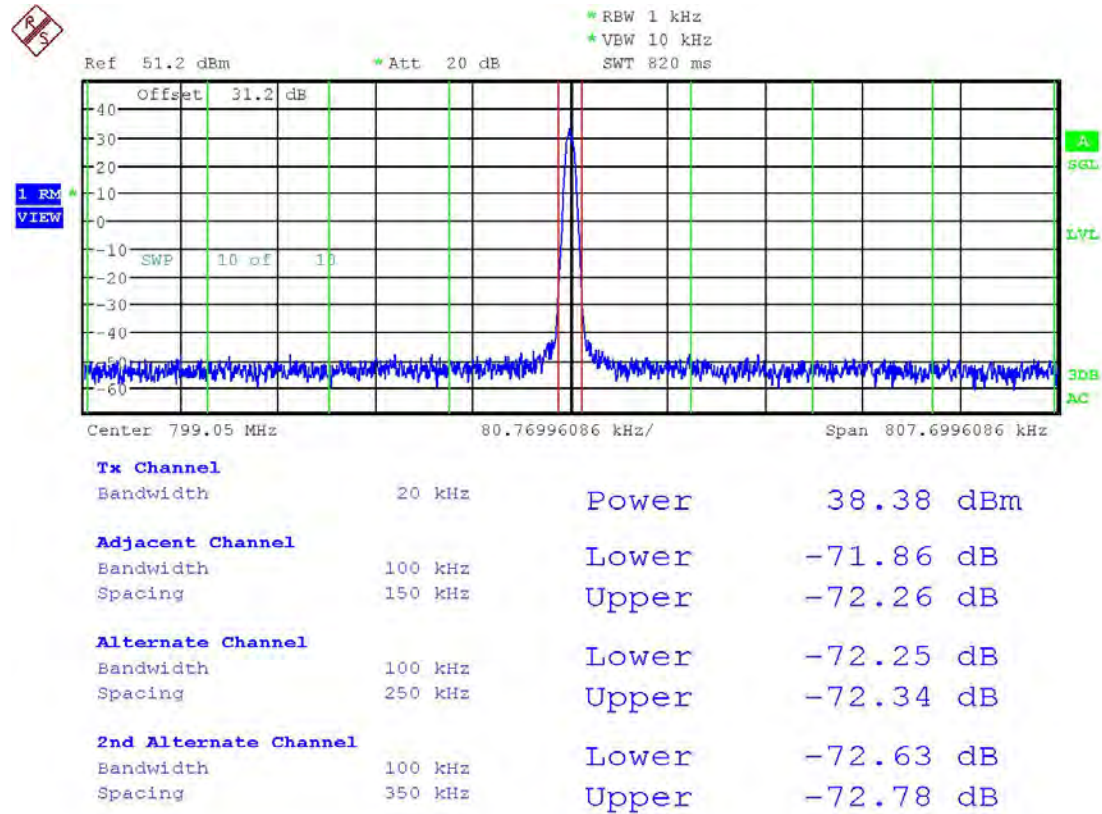
Date: 18.AUG.2015 10:26:54

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-8K87F2E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 10:27:28

Swept 30 KHz Bandwidth Measurement

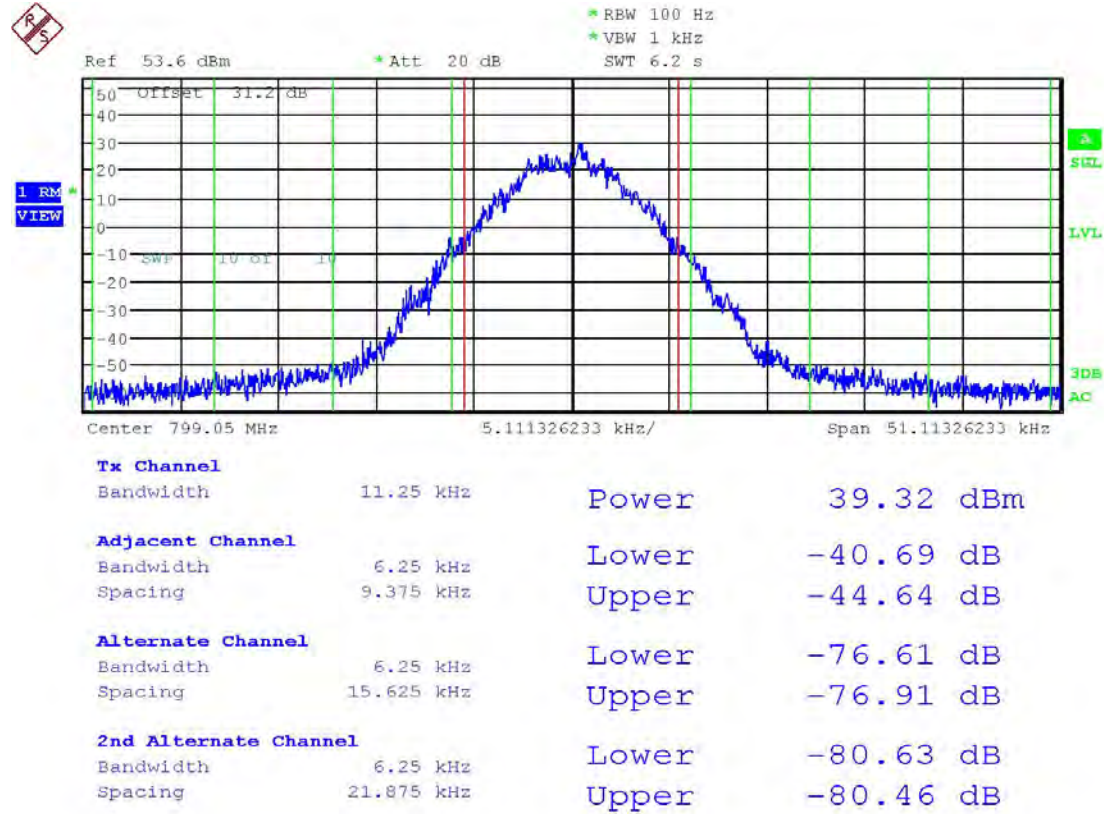
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.9	4.9
		Lower	-80.1	5.1
12 MHz to paired rx band	-75	-84.5		9.5
In the paired rx band	-100	-104.3		4.3

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-8K17F1E/8K17F1D

6.25 KHz Measurement Bandwidth



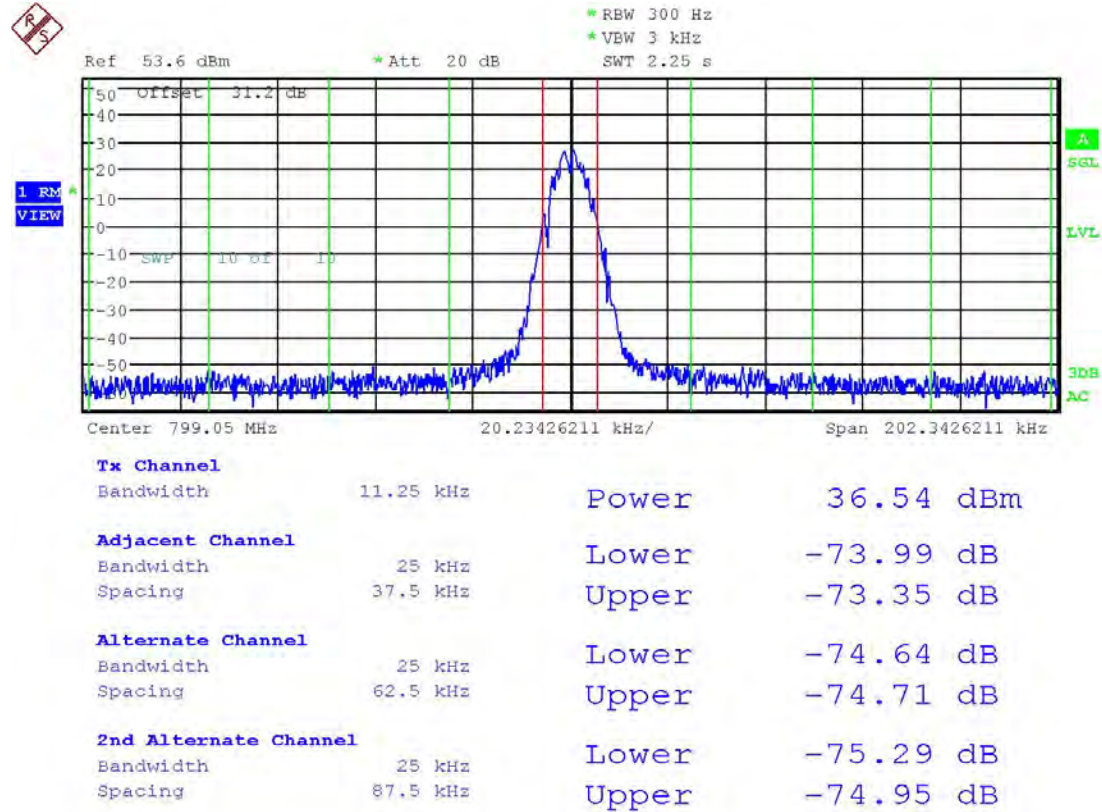
Date: 24.AUG.2015 14:28:27

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-8K17F1E/8K17F1D

25 KHz Measurement Bandwidth



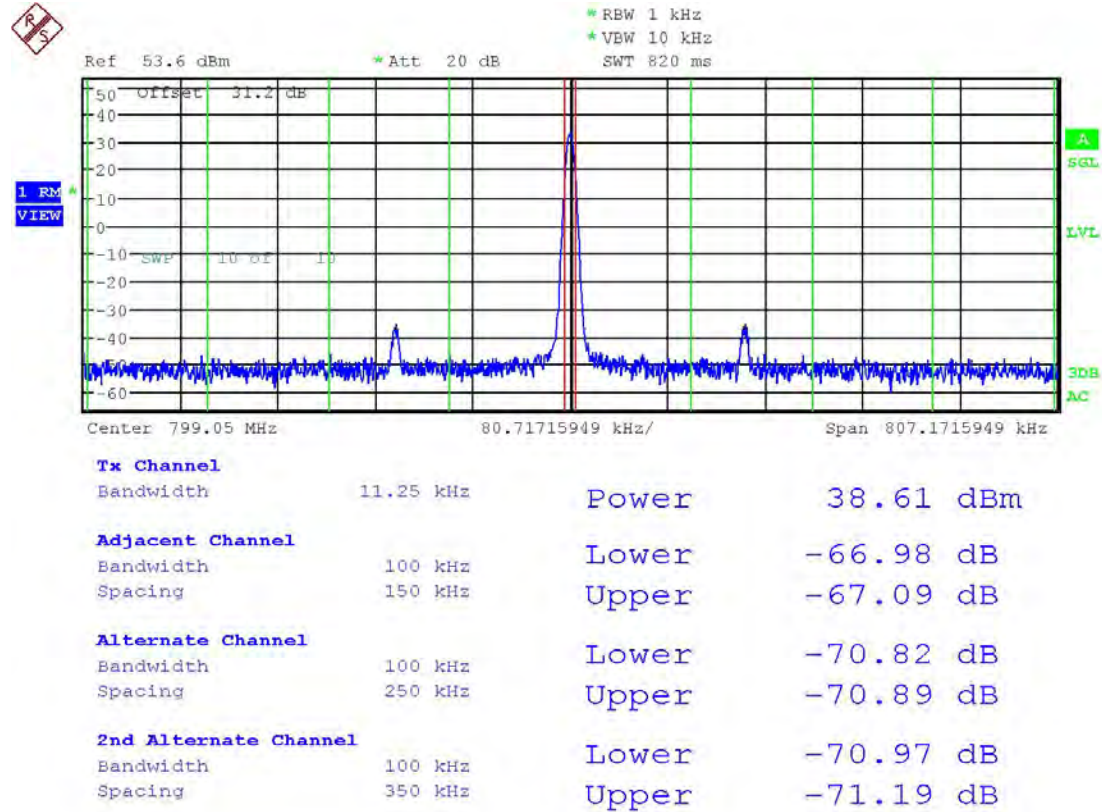
Date: 18.AUG.2015 11:18:50

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-8K17F1E/8K17F1D

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:19:25

Swept 30 KHz Bandwidth Measurement

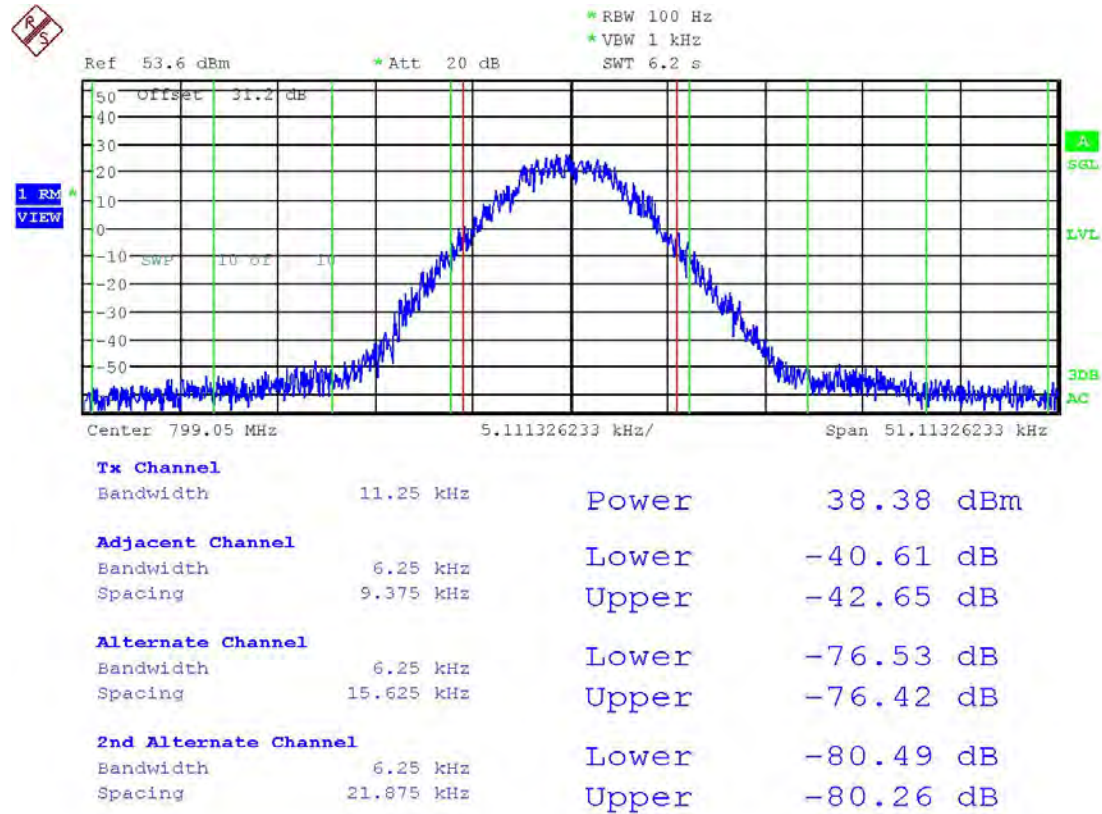
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-80.2	5.2
		Lower	-80.1	5.1
12 MHz to paired rx band	-75	-84.6		9.6
In the paired rx band	-100	-104.9		4.9

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-7K80FXE/7K80FXD/7K80FXW

6.25 KHz Measurement Bandwidth



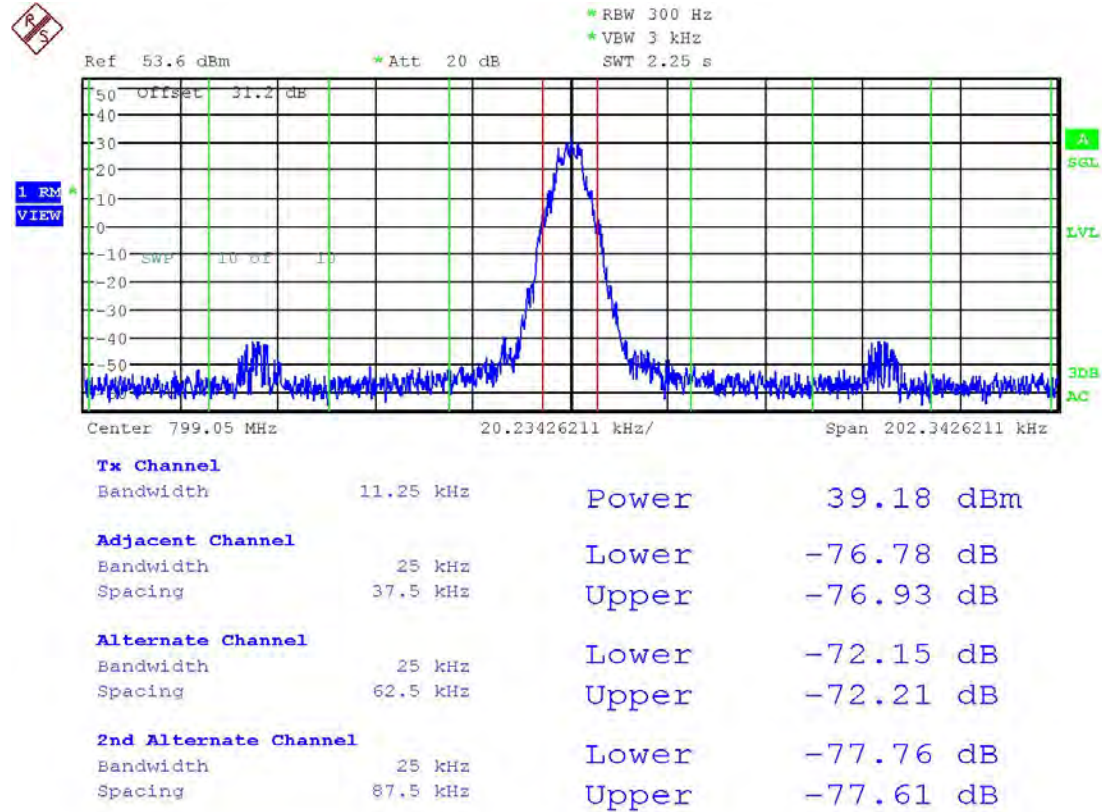
Date: 18.AUG.2015 11:13:08

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-7K80FXE/7K80FXD/7K80FXW

25 KHz Measurement Bandwidth



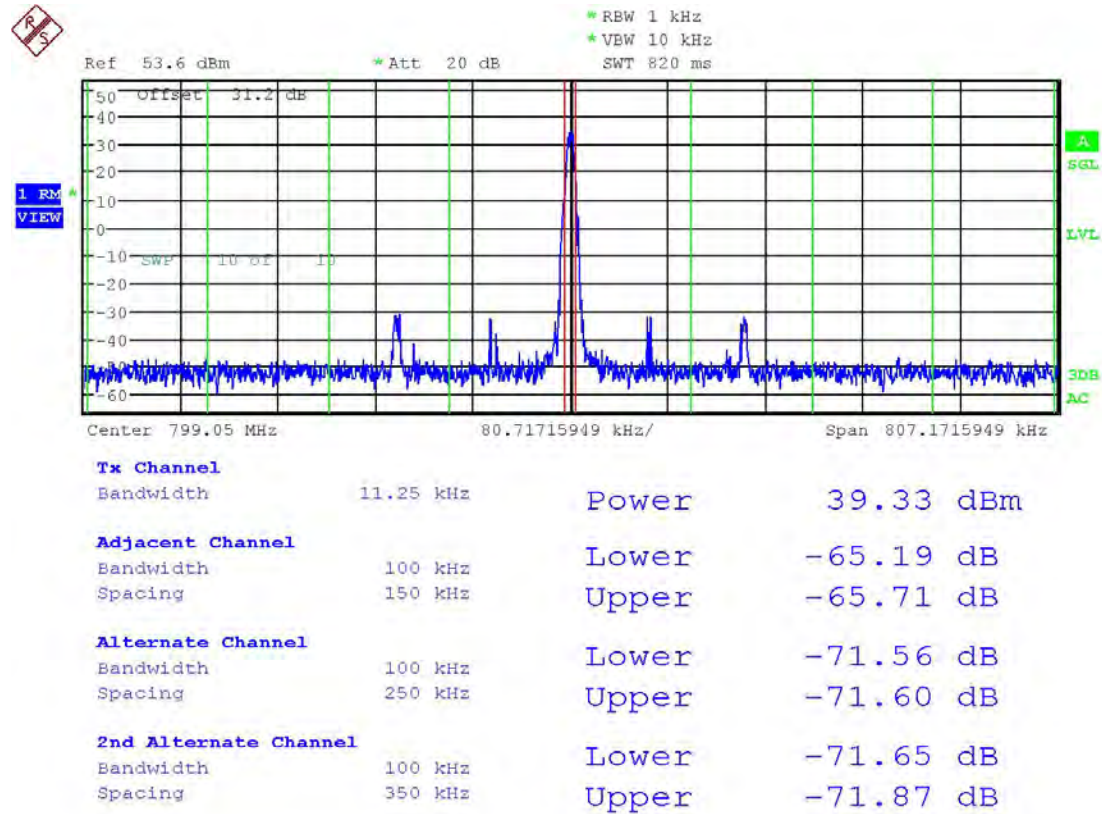
Date: 18.AUG.2015 11:14:00

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-7K80FXE/7K80FXD/7K80FXW

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:15:20

Swept 30 KHz Bandwidth Measurement

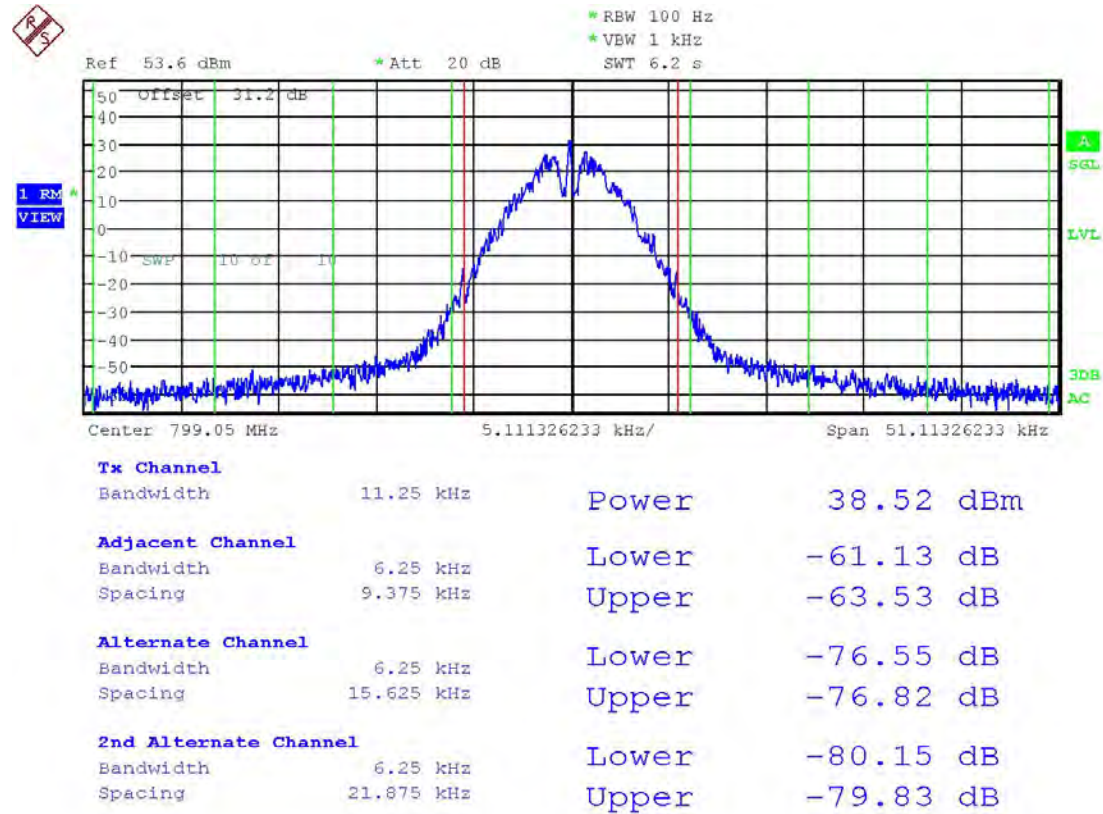
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-80.3	5.3
		Lower	-80.1	5.1
12 MHz to paired rx band	-75	-84.5		9.5
In the paired rx band	-100	-104.6		4.6

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-5K41F2E

6.25 KHz Measurement Bandwidth



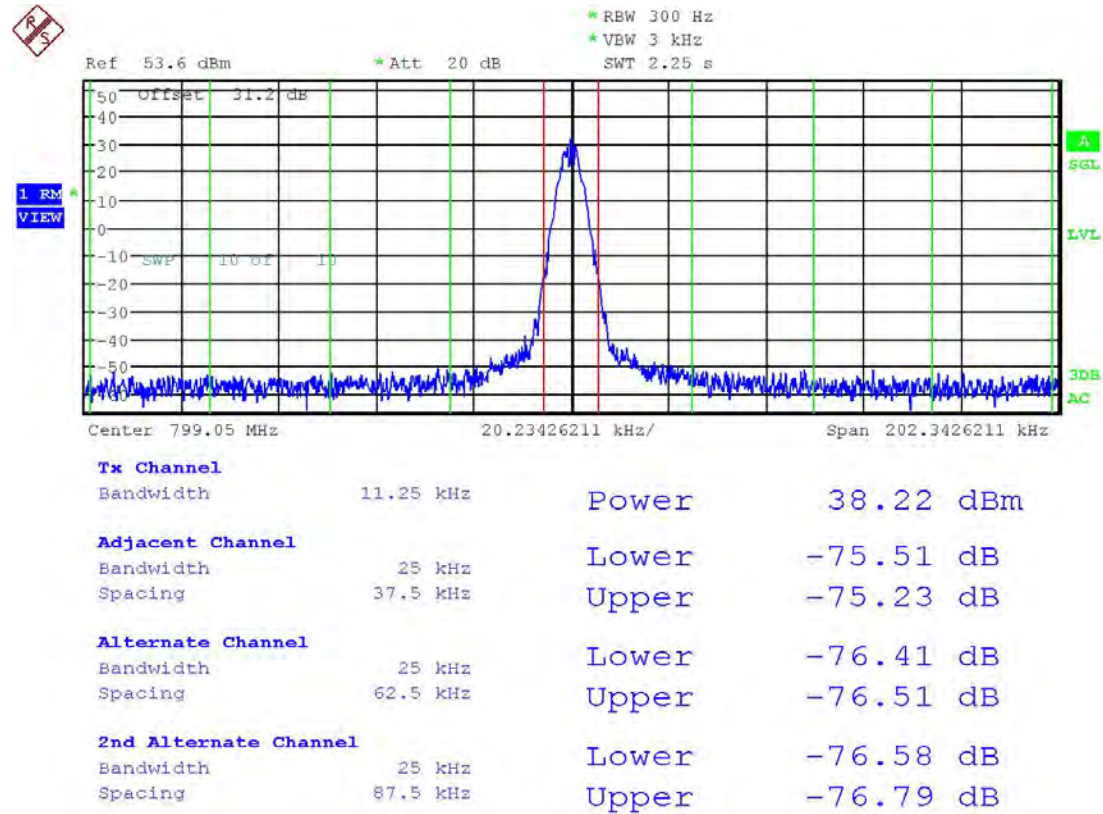
Date: 18.AUG.2015 11:22:04

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-5K41F2E

25 KHz Measurement Bandwidth



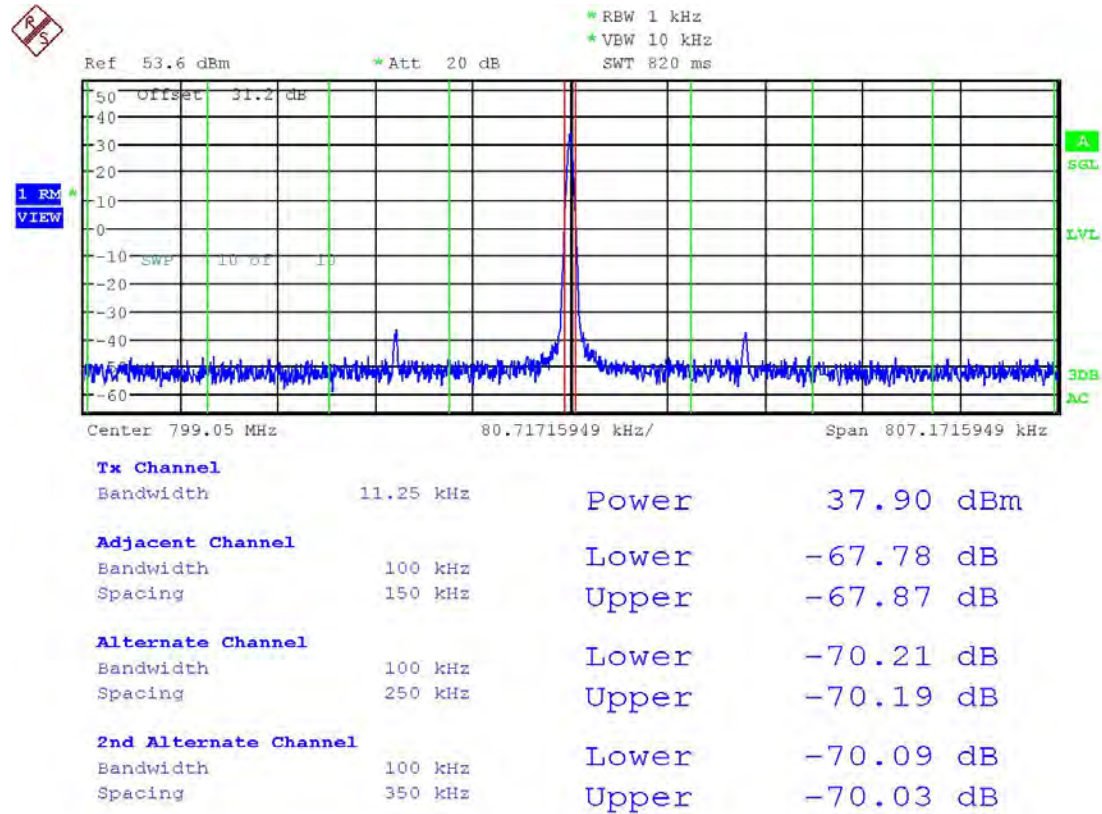
Date: 18.AUG.2015 11:22:48

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 799.05 MHz-5K41F2E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:24:39

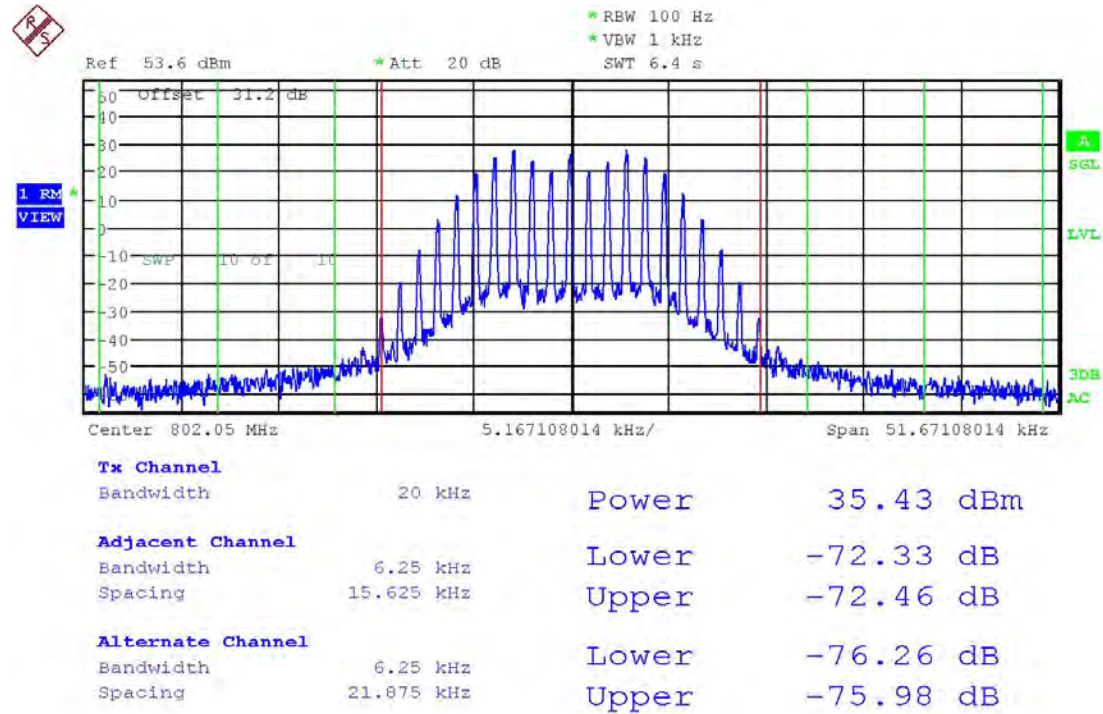
Swept 30 KHz Bandwidth Measurement

Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-80.1	5.1
		Lower	-80.3	5.3
12 MHz to paired rx band	-75	-84.2		9.2
In the paired rx band	-100	-104.9		4.9

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TEST FREQ. 802.05 MHz-16K0F3E

6.25 KHz Measurement Bandwidth



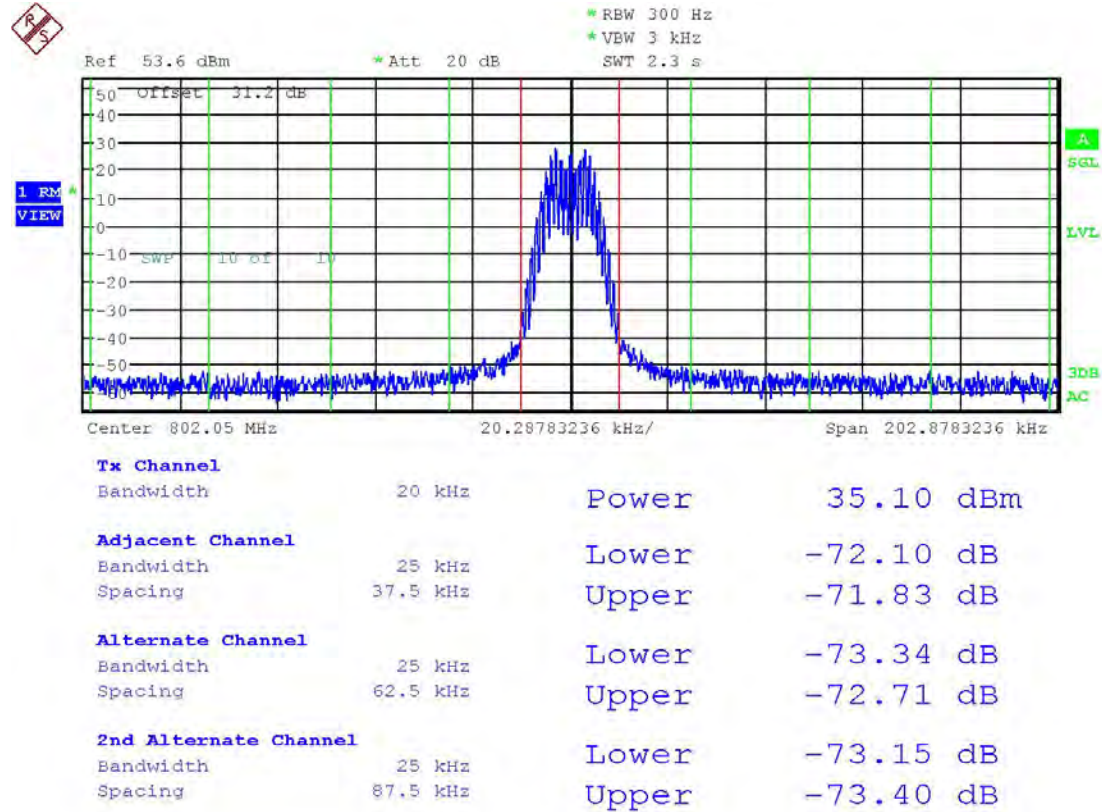
Date: 18.AUG.2015 11:58:10

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-16K0F3E

25 KHz Measurement Bandwidth



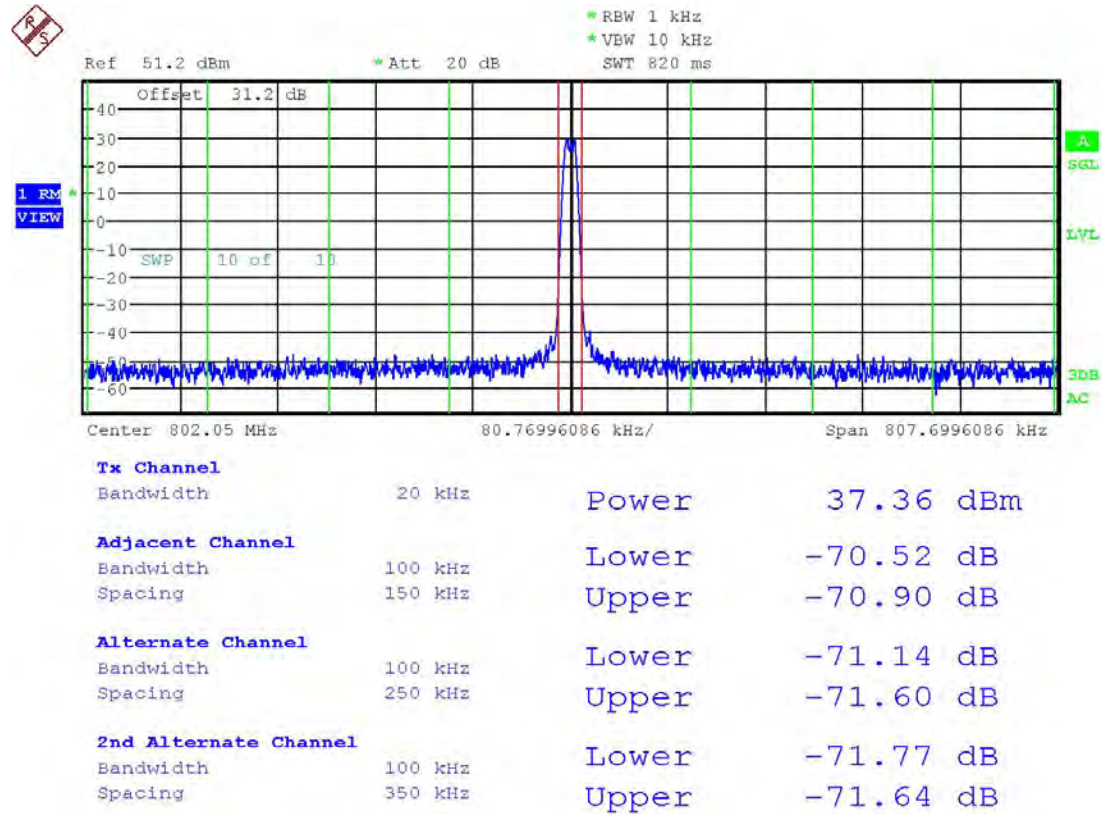
Date: 18.AUG.2015 11:58:55

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-16K0F3E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:59:44

Swept 30 KHz Bandwidth Measurement

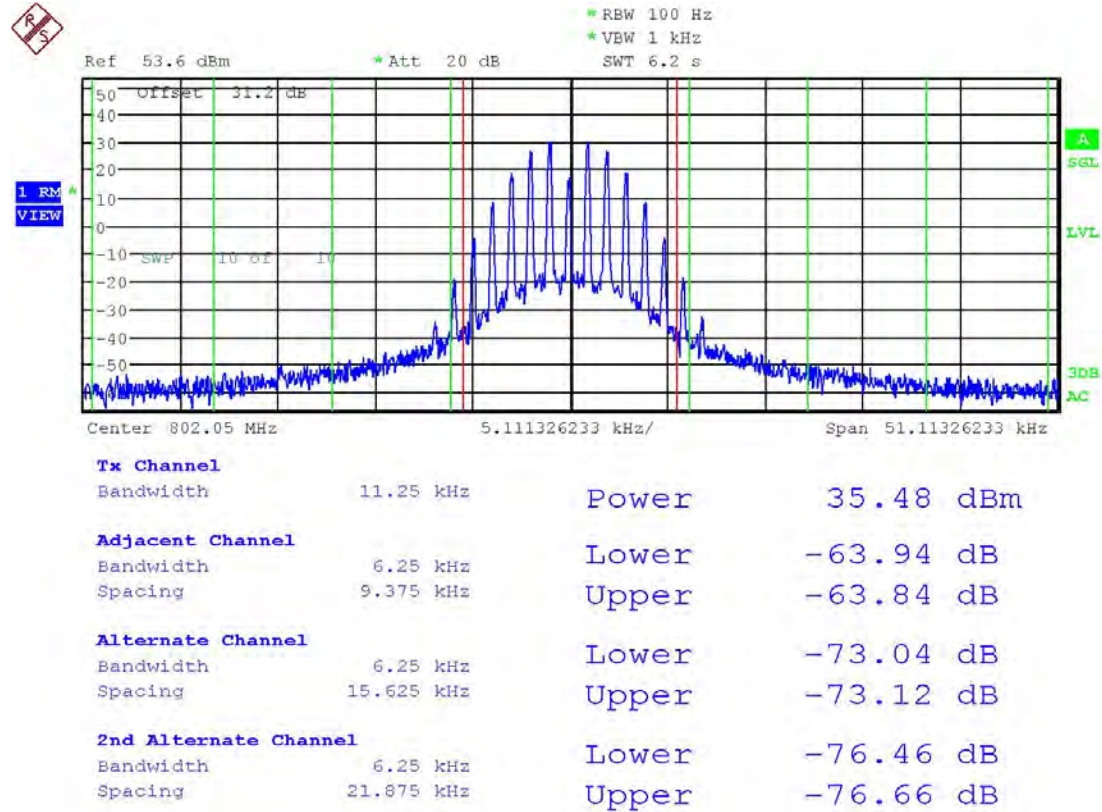
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.9	4.9
		Lower	-80.1	5.1
12 MHz to paired rx band	-75	-83.9		8.9
In the paired rx band	-100	-104.7		4.7

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-11K0F3E

6.25 KHz Measurement Bandwidth



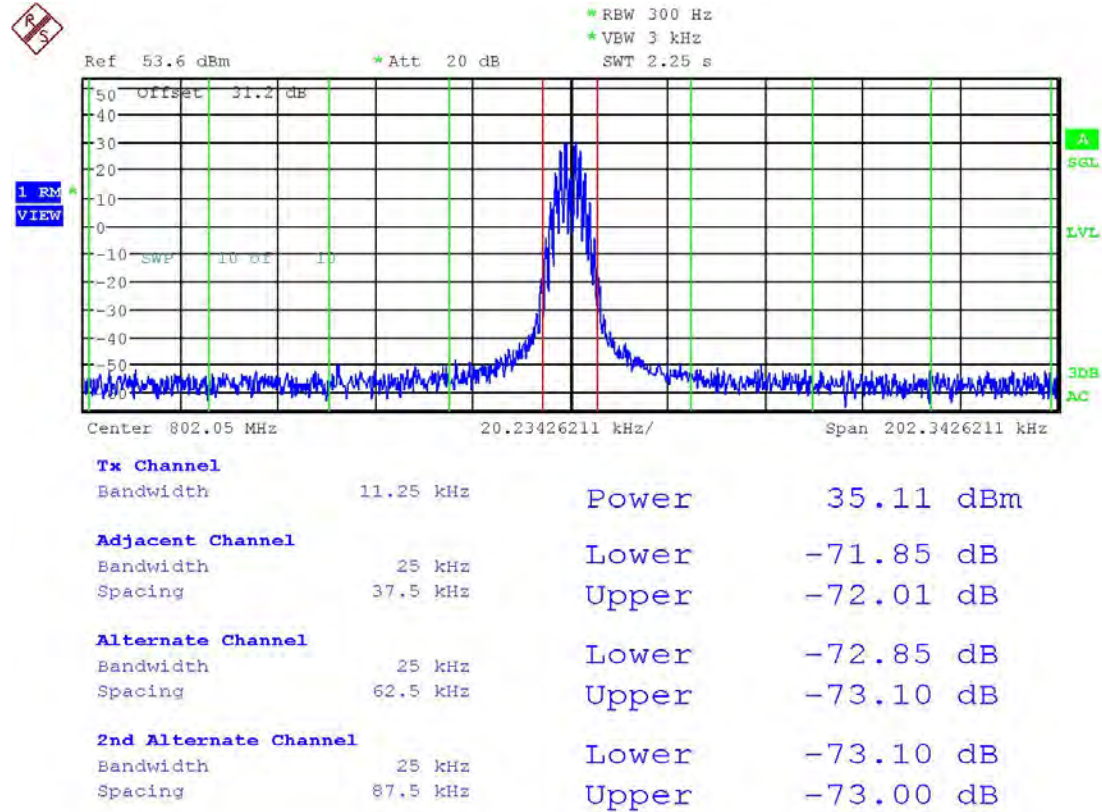
Date: 18.AUG.2015 11:55:09

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-11K0F3E

25 KHz Measurement Bandwidth



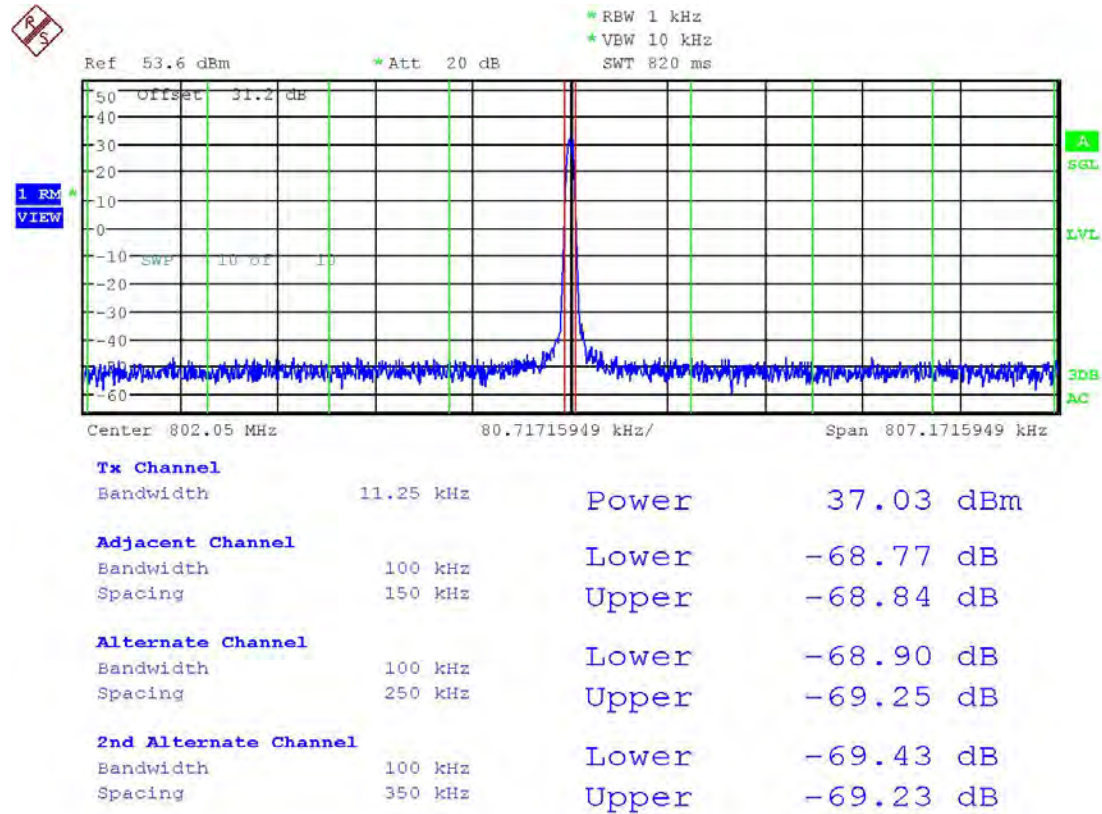
Date: 18.AUG.2015 11:55:51

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-11K0F3E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:56:19

Swept 30 KHz Bandwidth Measurement

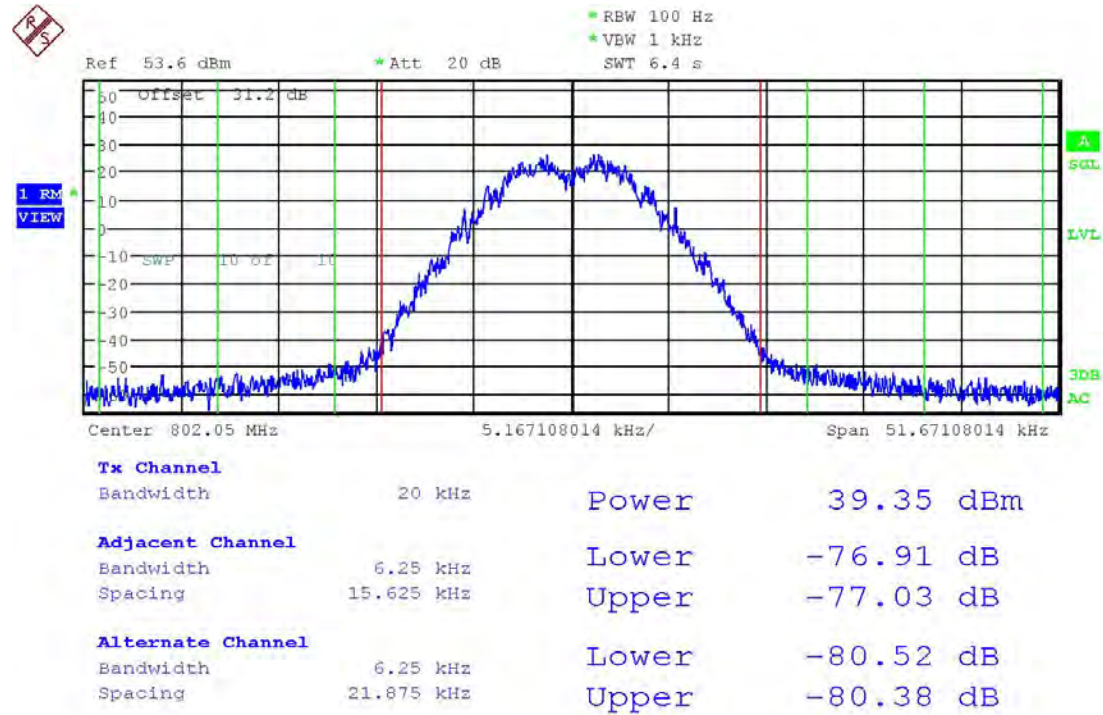
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-80.1	5.1
		Lower	-80.2	5.2
12 MHz to paired rx band	-75	-85.1		10.1
In the paired rx band	-100	-104.9		4.9

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-8K87F2E

6.25 KHz Measurement Bandwidth



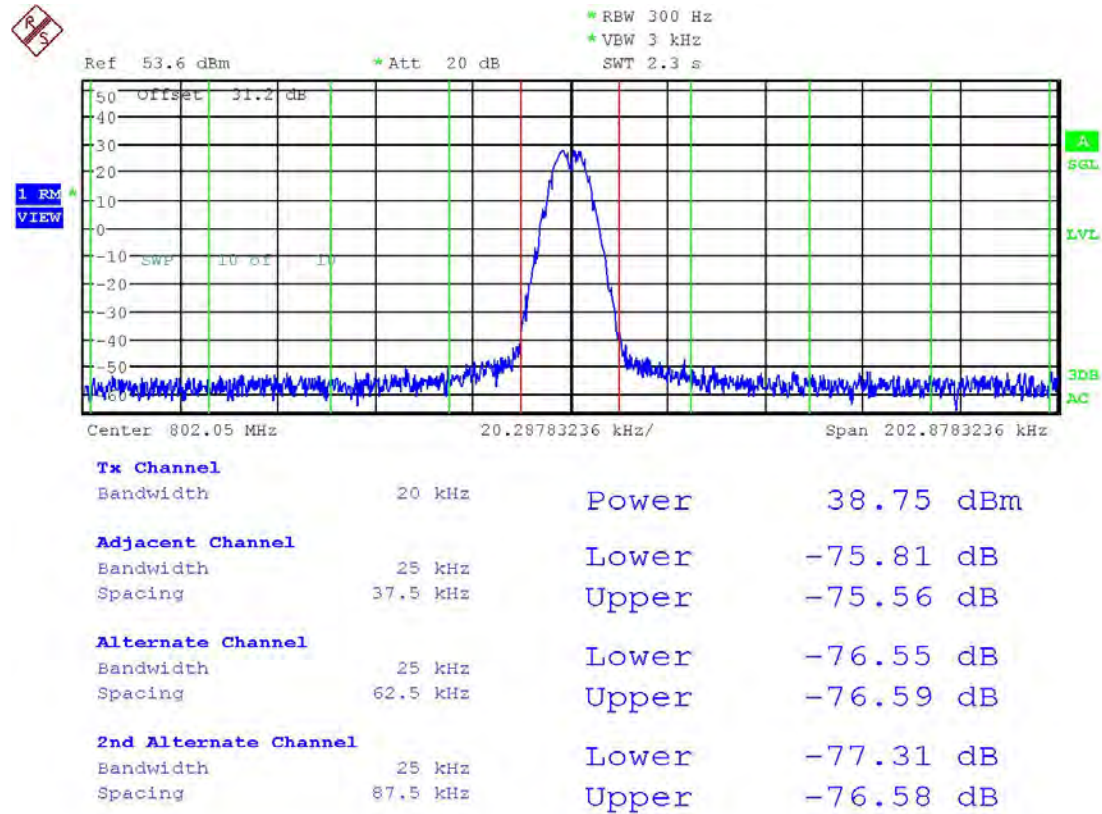
Date: 18.AUG.2015 12:06:49

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-8K87F2E

25 KHz Measurement Bandwidth



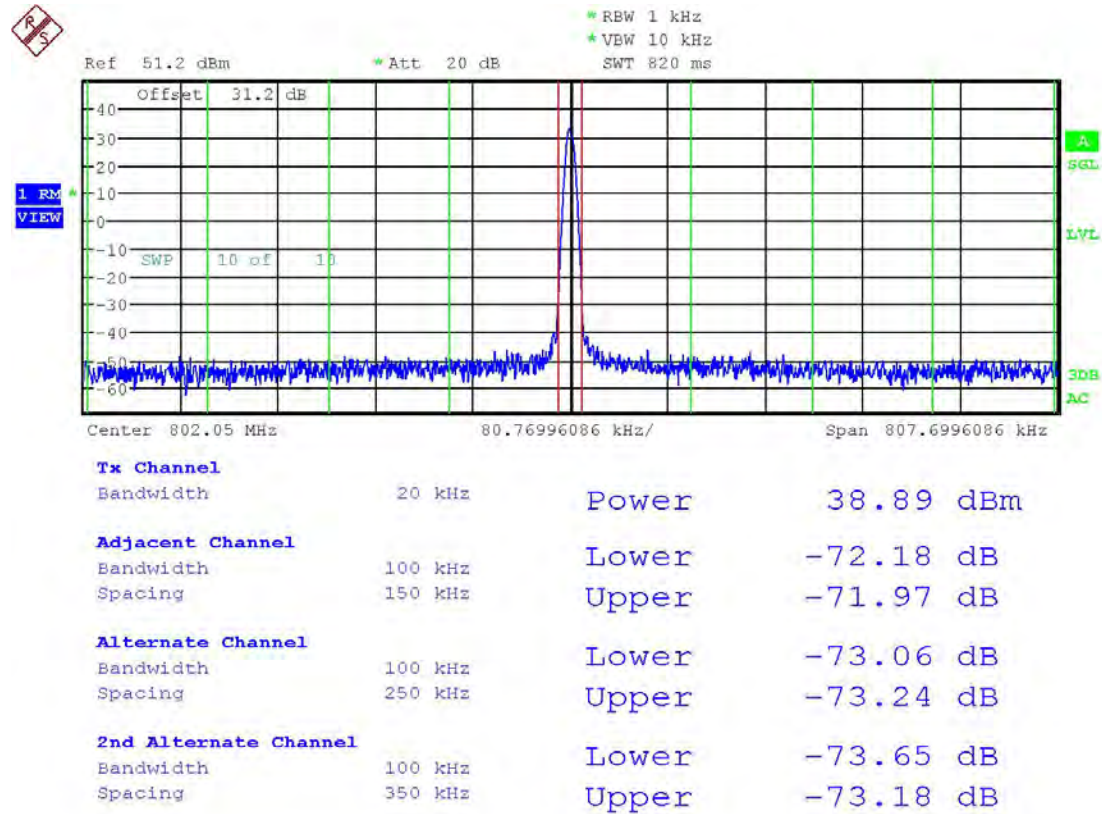
Date: 18.AUG.2015 12:07:37

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-8K87F2E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 12:08:17

Swept 30 KHz Bandwidth Measurement

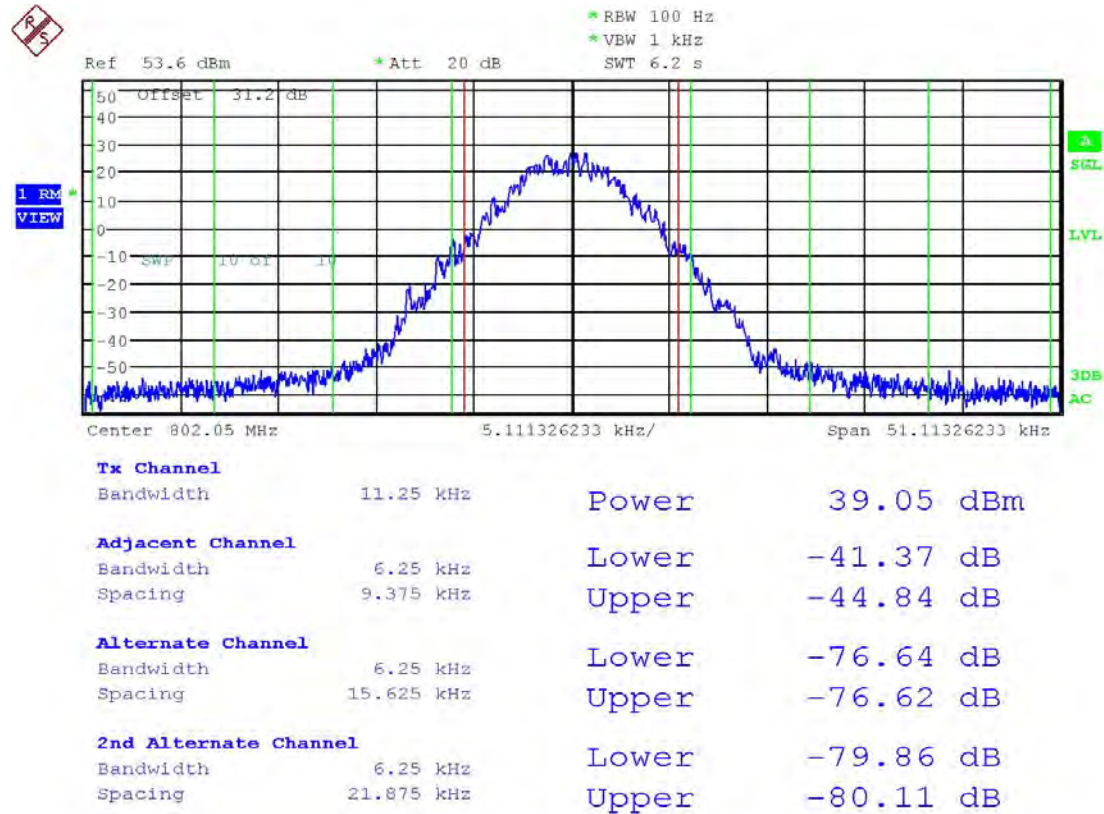
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.9	4.9
		Lower	-80.1	5.1
12 MHz to paired rx band	-75	-83.9		8.9
In the paired rx band	-100	-104.2		4.2

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-8K17F1E/8K17F1D

6.25 KHz Measurement Bandwidth



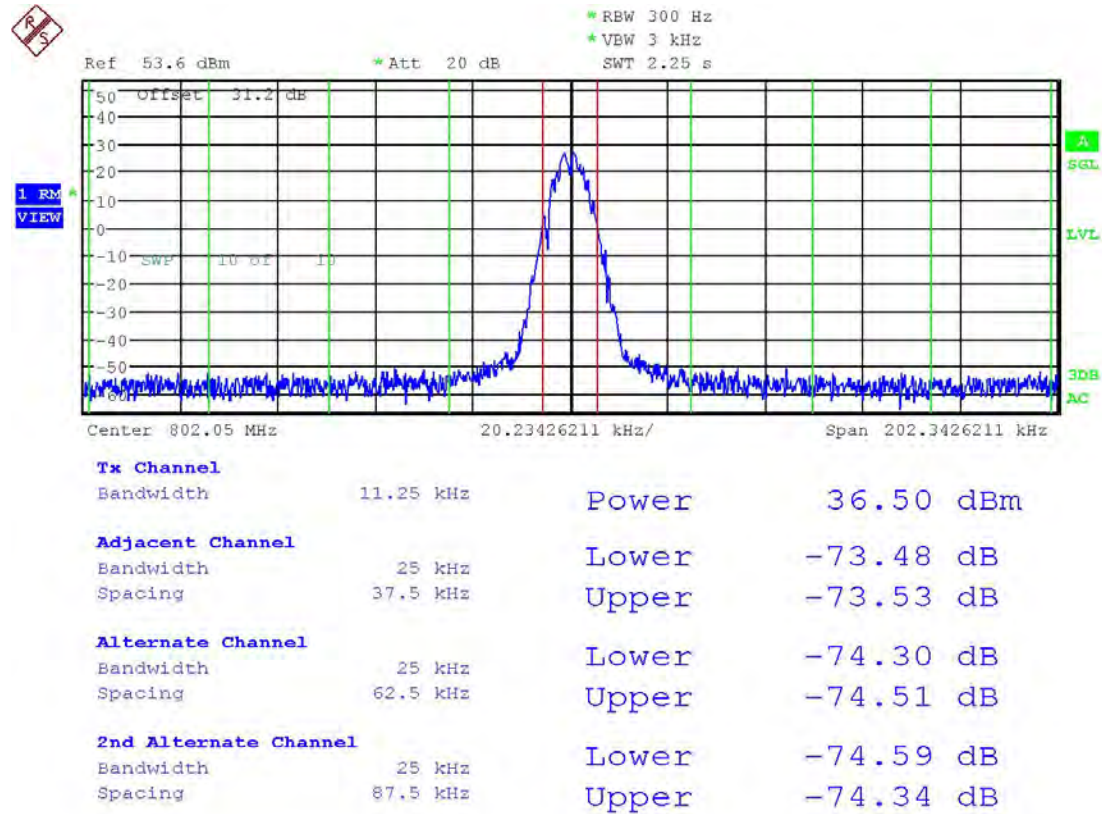
Date: 24.AUG.2015 14:41:45

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-8K17F1E/8K17F1D

25 KHz Measurement Bandwidth



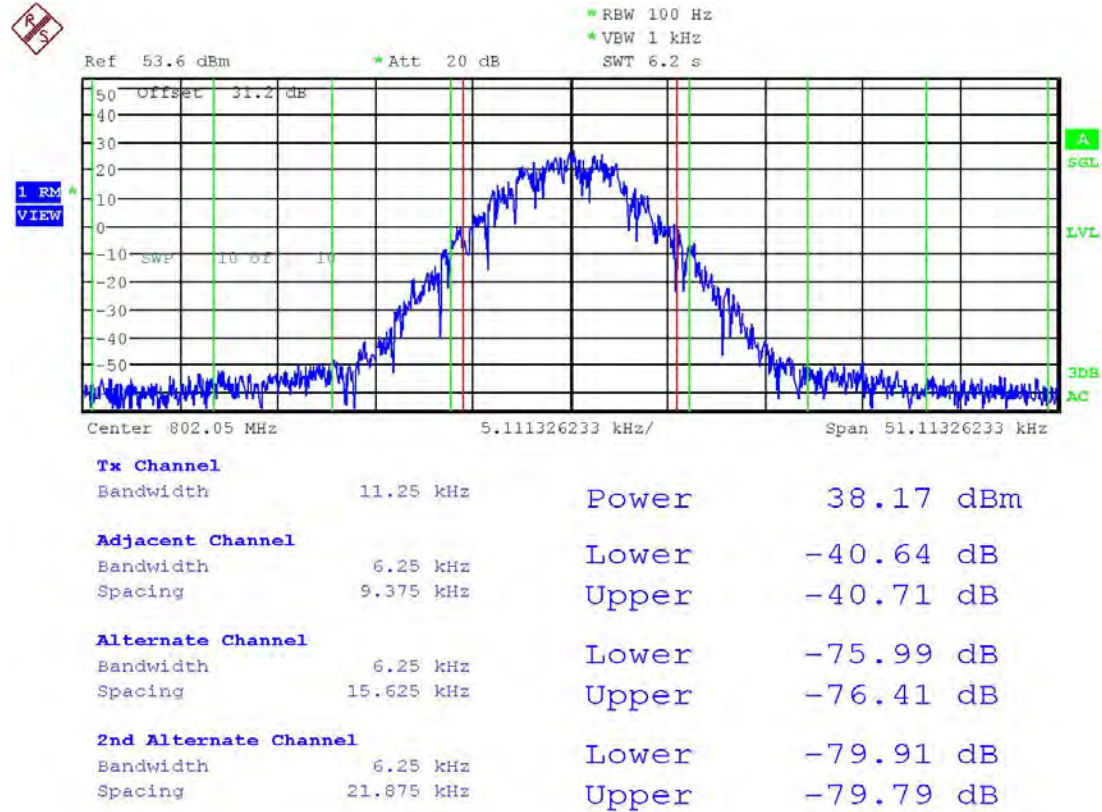
Date: 18.AUG.2015 12:28:02

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-7K80FXE/7K80FXD/7K80FXW

6.25 KHz Measurement Bandwidth



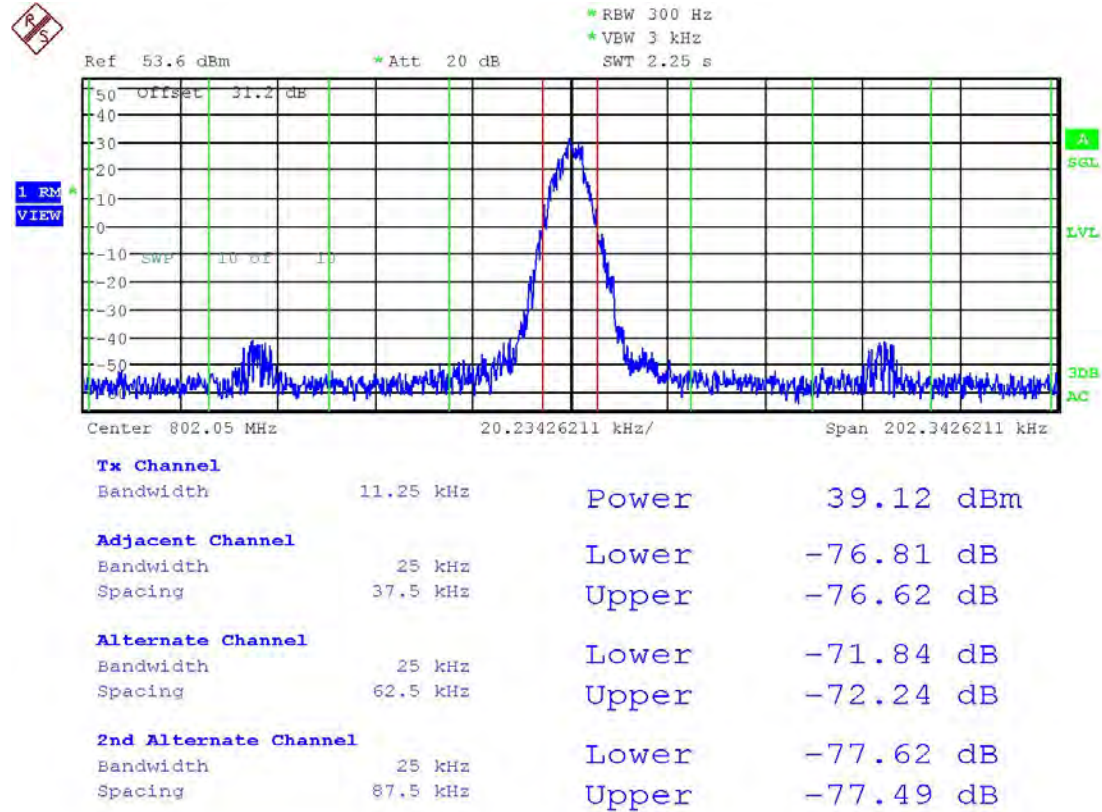
Date: 18.AUG.2015 12:18:02

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-7K80FXE/7K80FXD/7K80FXW

25 KHz Measurement Bandwidth



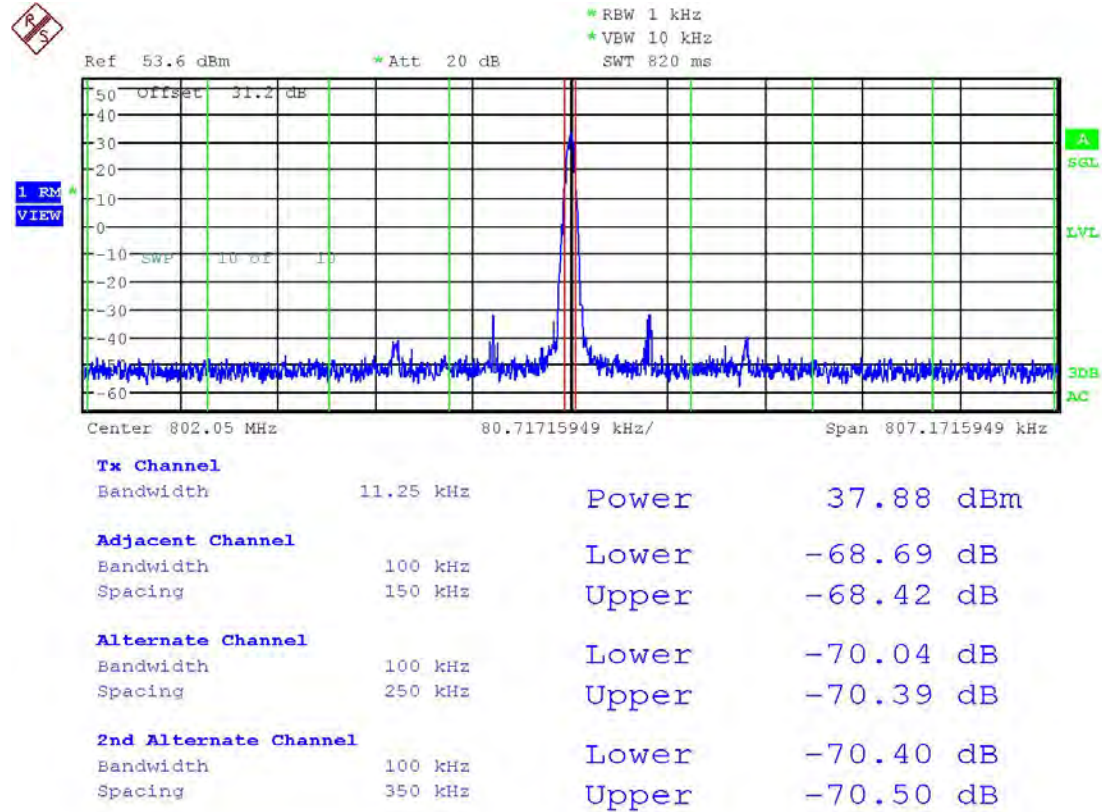
Date: 18.AUG.2015 12:18:56

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-7K80FXE/7K80FXD/7K80FXW

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 12:25:53

Swept 30 KHz Bandwidth Measurement

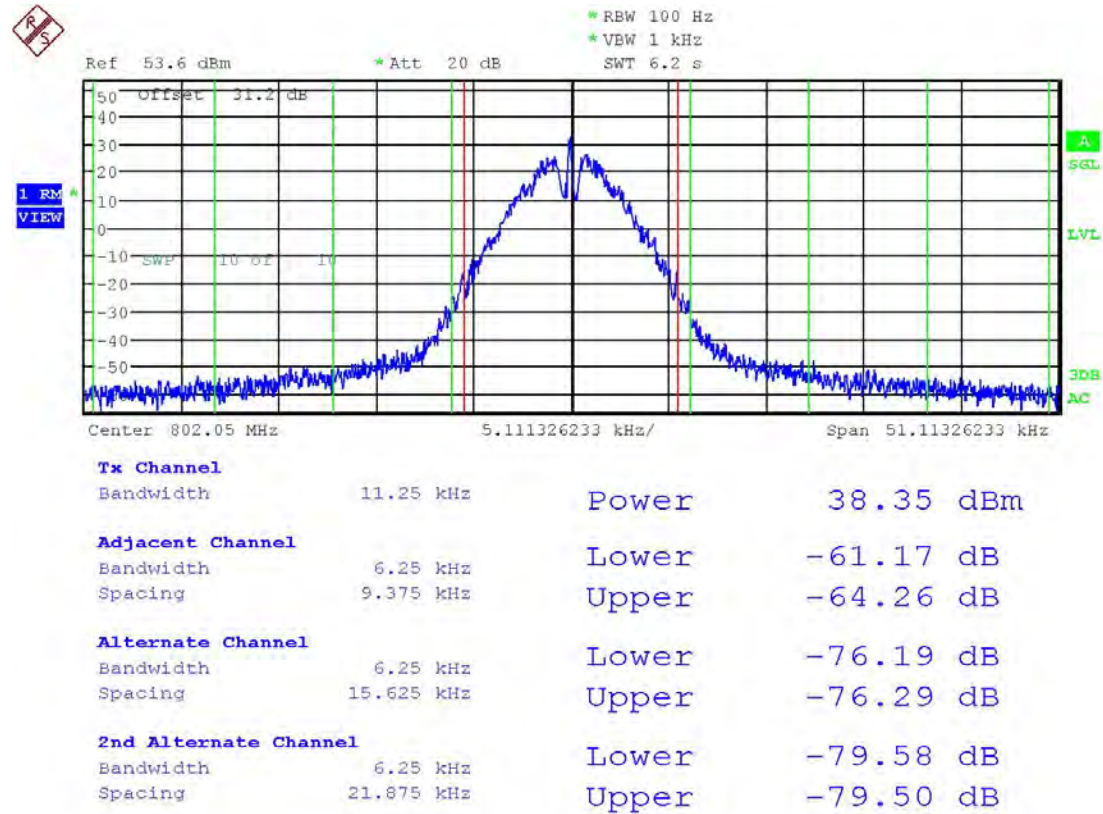
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.9	4.9
		Lower	-80.1	5.1
12 MHz to paired rx band	-75	-84.2		9.2
In the paired rx band	-100	-104.7		4.7

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-5K41F2E

6.25 KHz Measurement Bandwidth



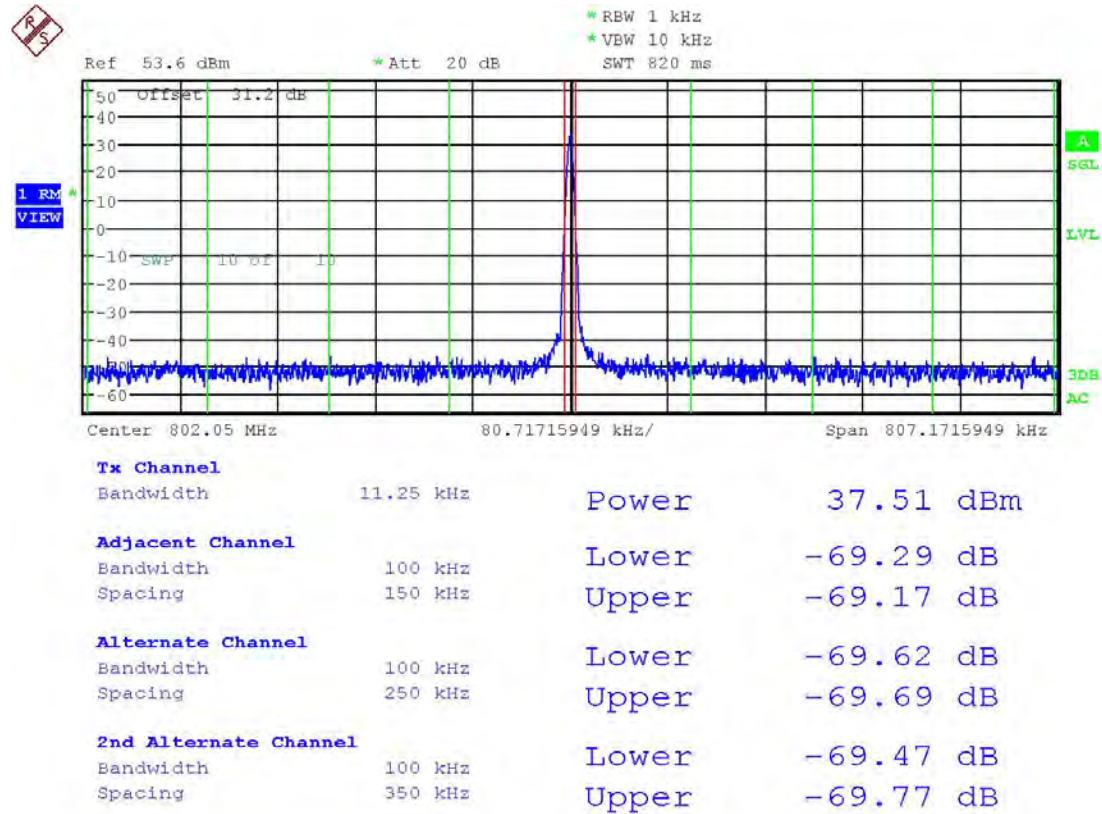
Date: 18.AUG.2015 12:30:08

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 802.05 MHz-5K41F2E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 12:36:33

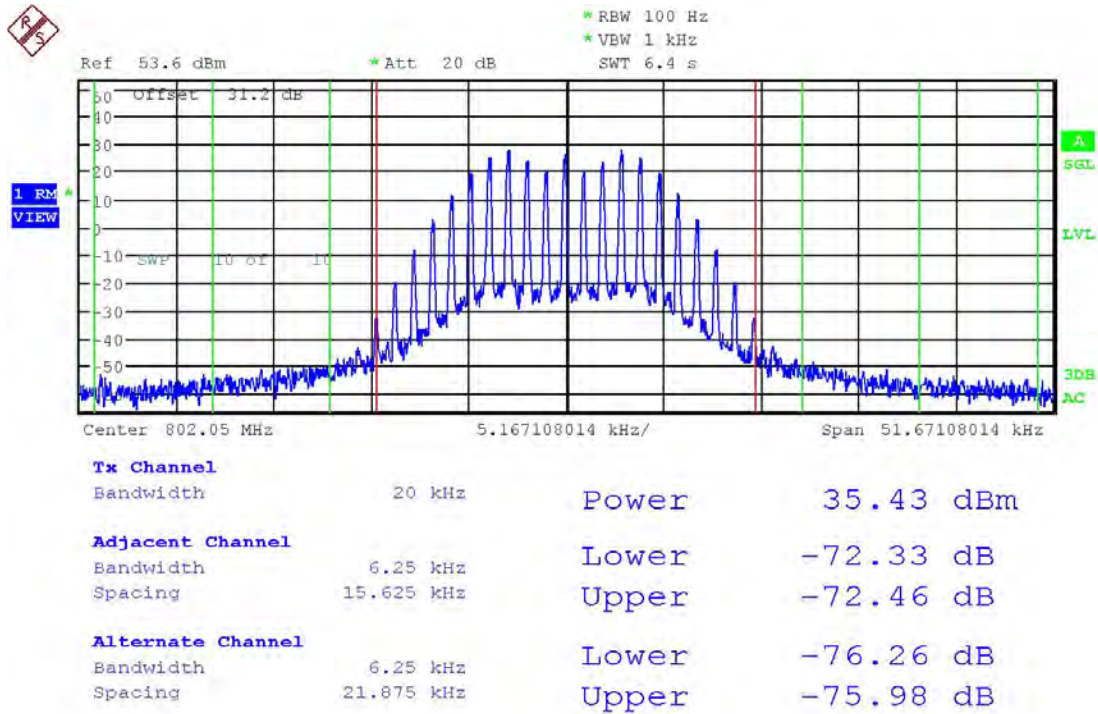
Swept 30 KHz Bandwidth Measurement

Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.7	4.7
		Lower	-79.6	4.6
12 MHz to paired rx band	-75	-84.6		9.6
In the paired rx band	-100	-104.9		4.9

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TEST FREQ. 804.95 MHz-16K0F3E

6.25 KHz Measurement Bandwidth



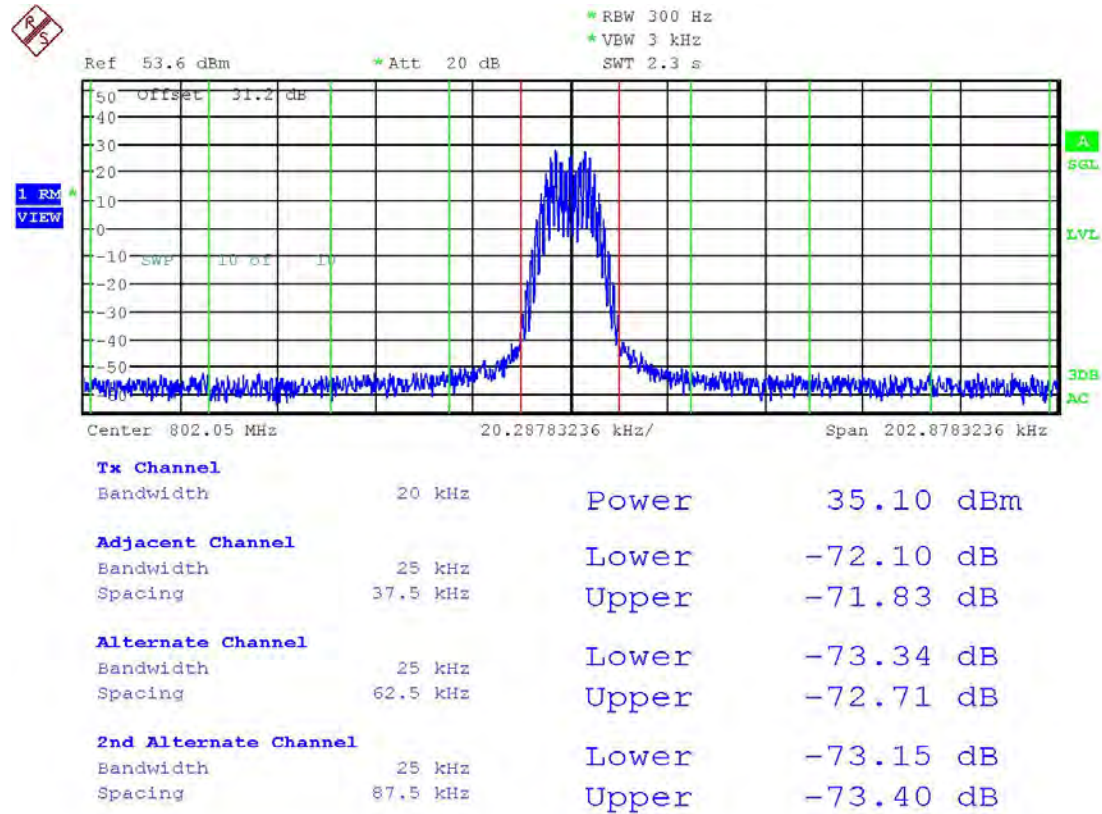
Date: 18.AUG.2015 11:58:10

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-16K0F3E

25 KHz Measurement Bandwidth



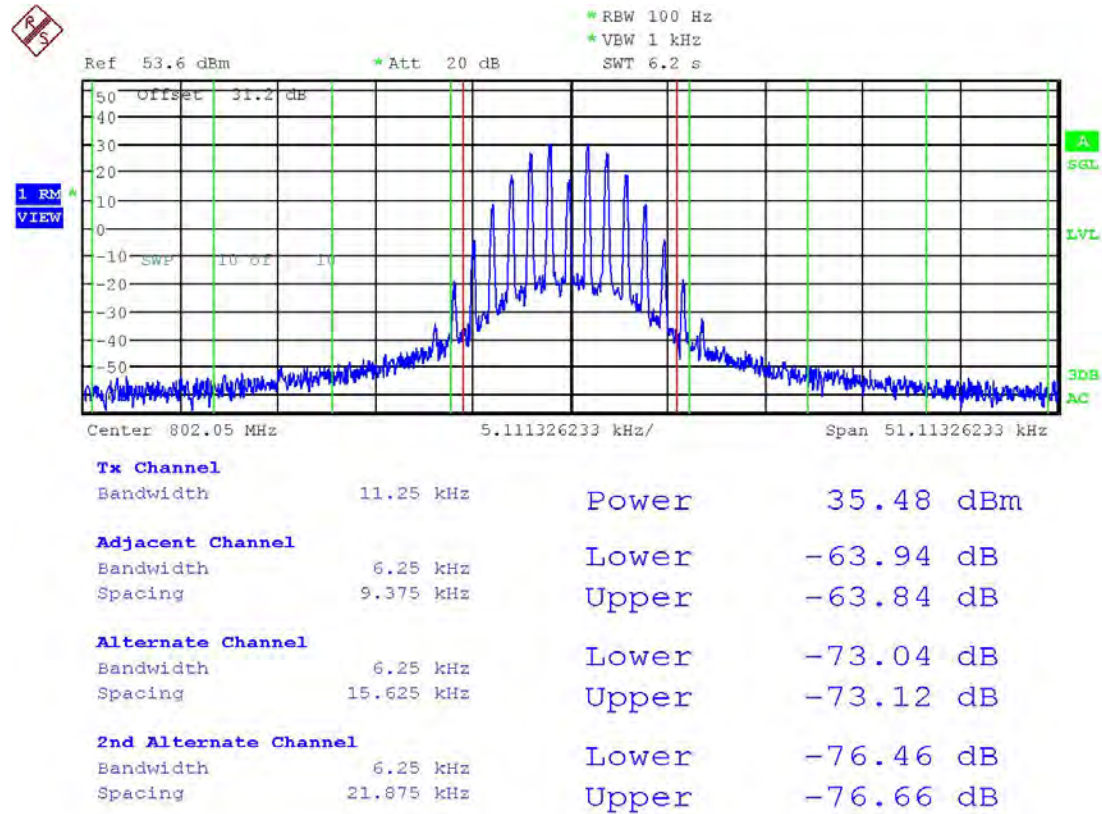
Date: 18.AUG.2015 11:58:55

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-11K0F3E

6.25 KHz Measurement Bandwidth



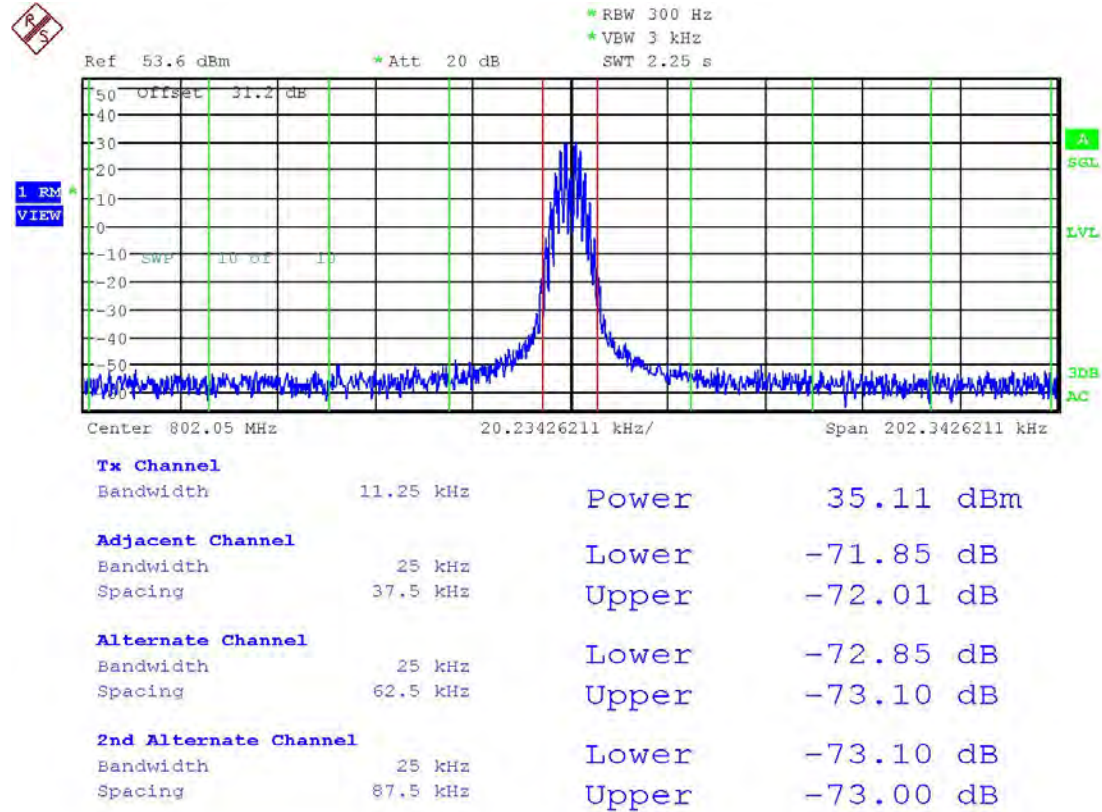
Date: 18.AUG.2015 11:55:09

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-11K0F3E

25 KHz Measurement Bandwidth



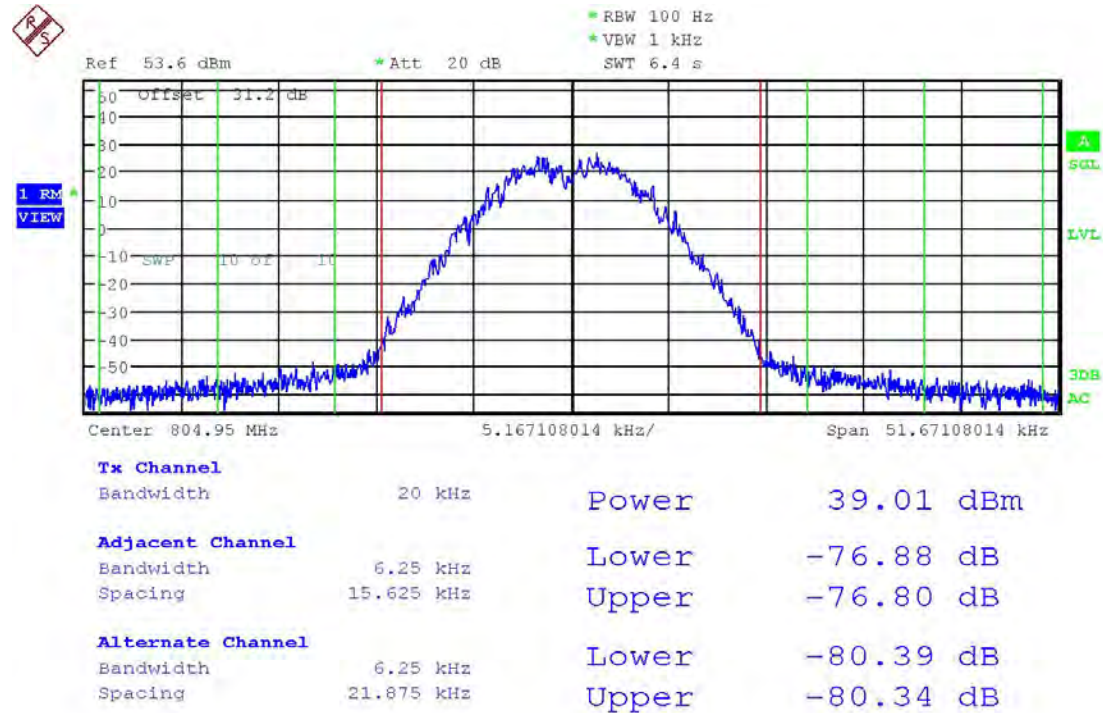
Date: 18.AUG.2015 11:55:51

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K87F2E

6.25 KHz Measurement Bandwidth



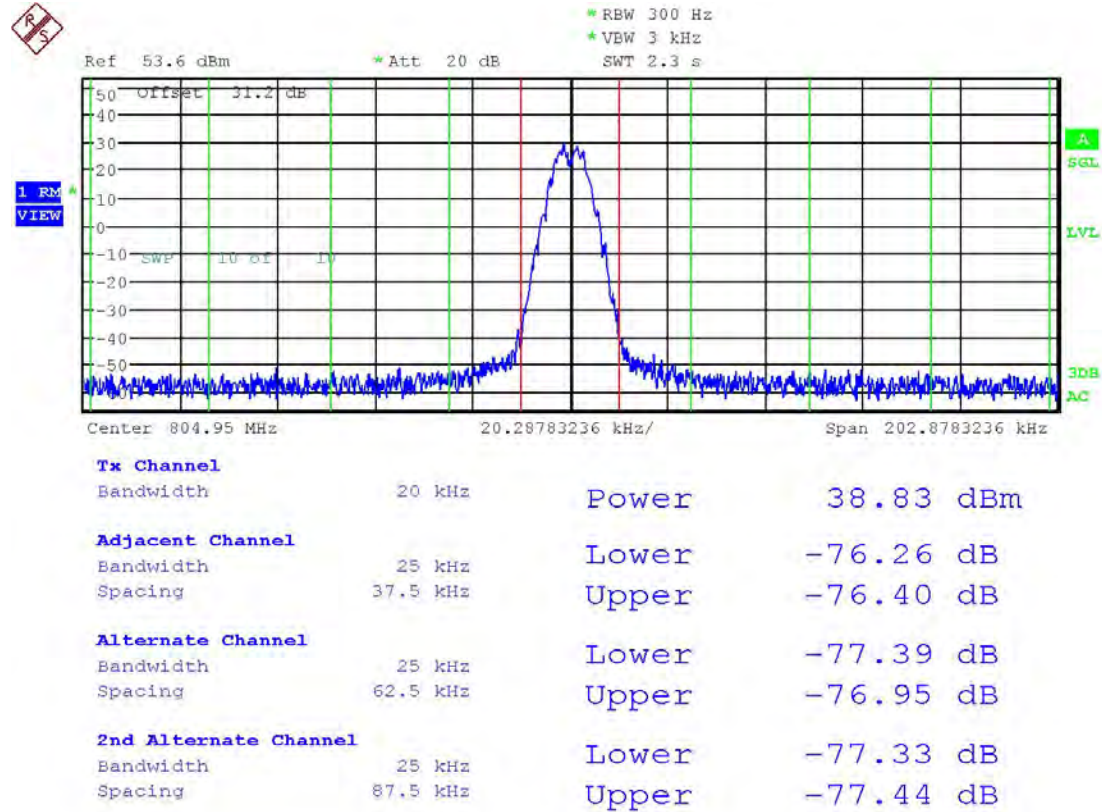
Date: 18.AUG.2015 11:36:25

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K87F2E

25 KHz Measurement Bandwidth



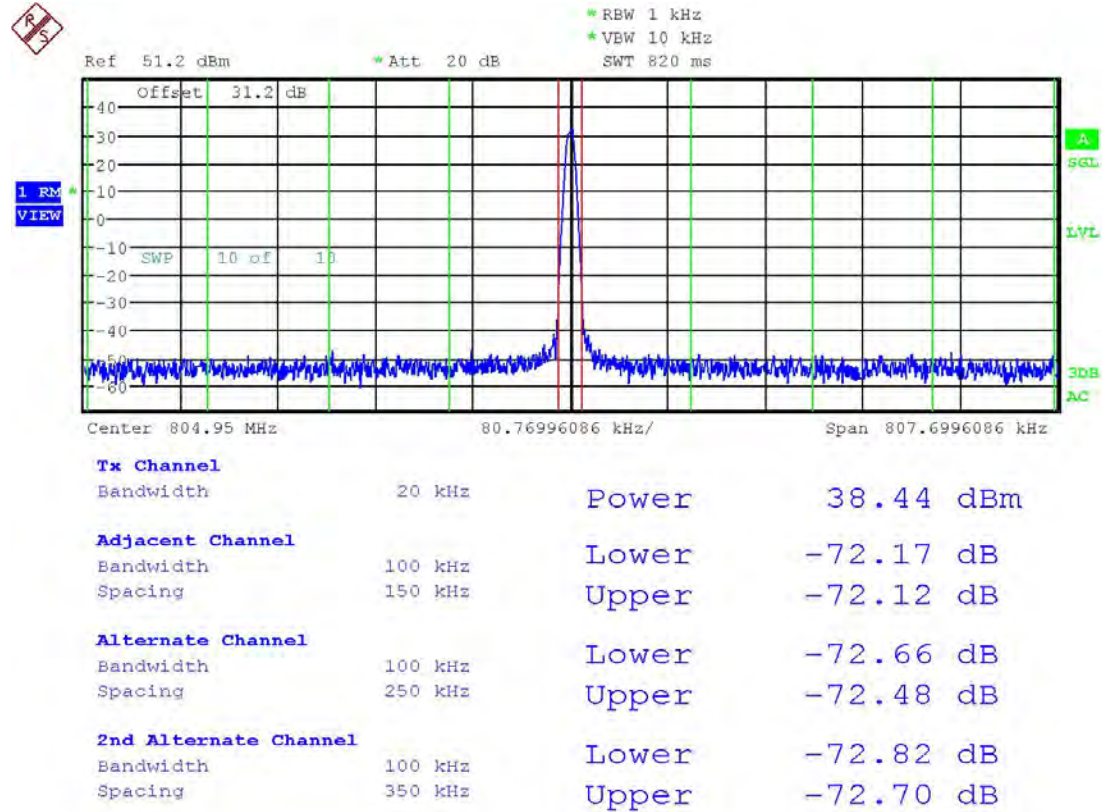
Date: 18.AUG.2015 11:37:18

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K87F2E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:37:47

Swept 30 KHz Bandwidth Measurement

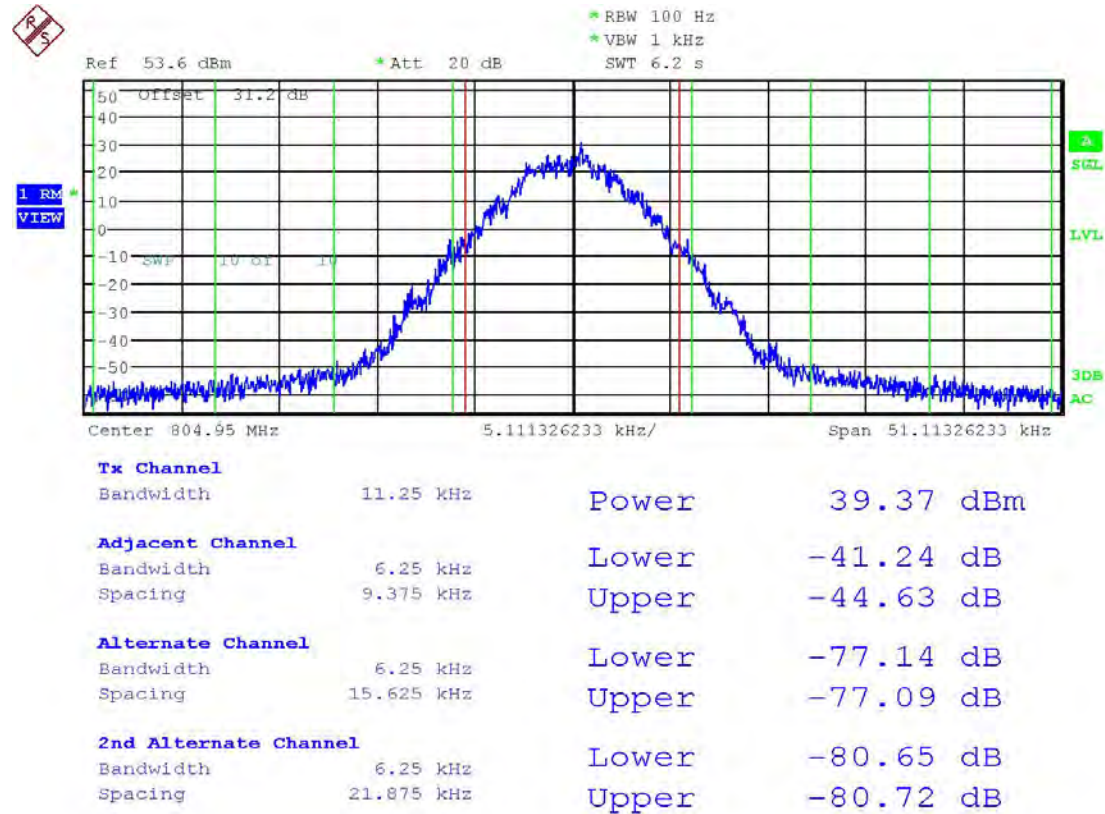
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.7	4.7
		Lower	-79.8	4.8
12 MHz to paired rx band	-75	-83.9		8.9
In the paired rx band	-100	-104.7		4.7

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K17F1E/8K17F1D

6.25 KHz Measurement Bandwidth



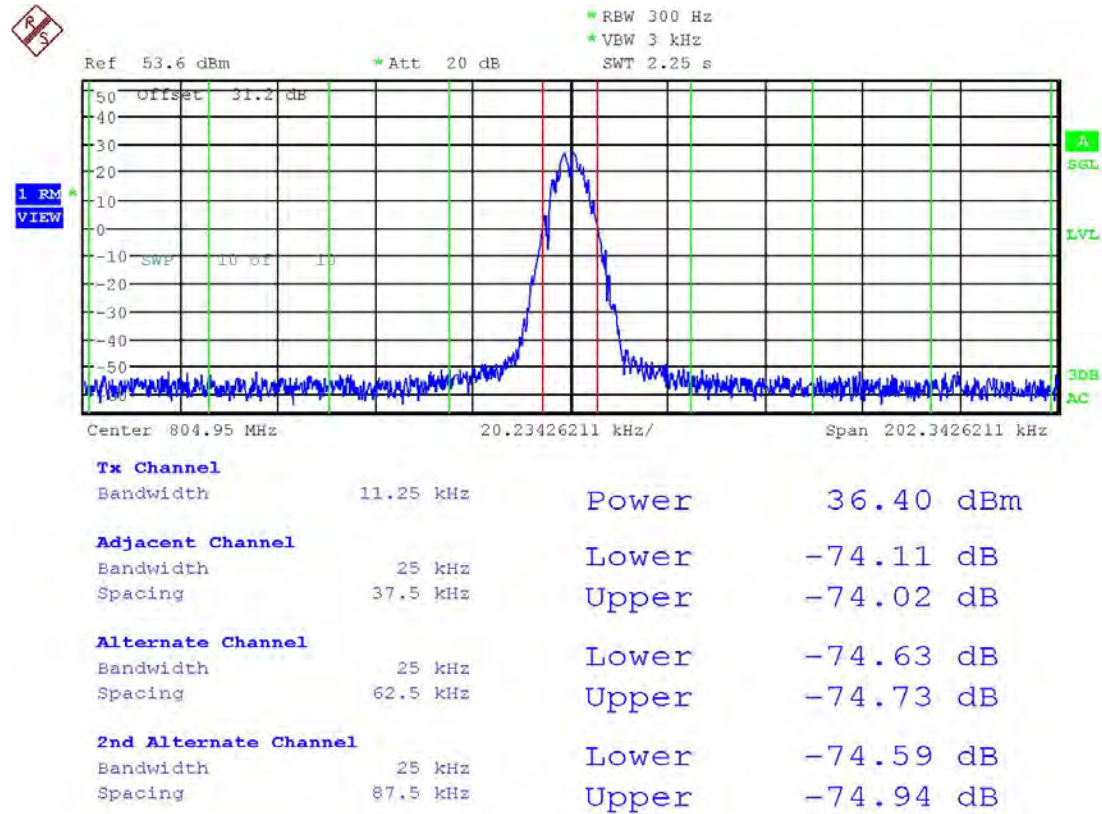
Date: 24.AUG.2015 14:43:22

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K17F1E/8K17F1D

25 KHz Measurement Bandwidth



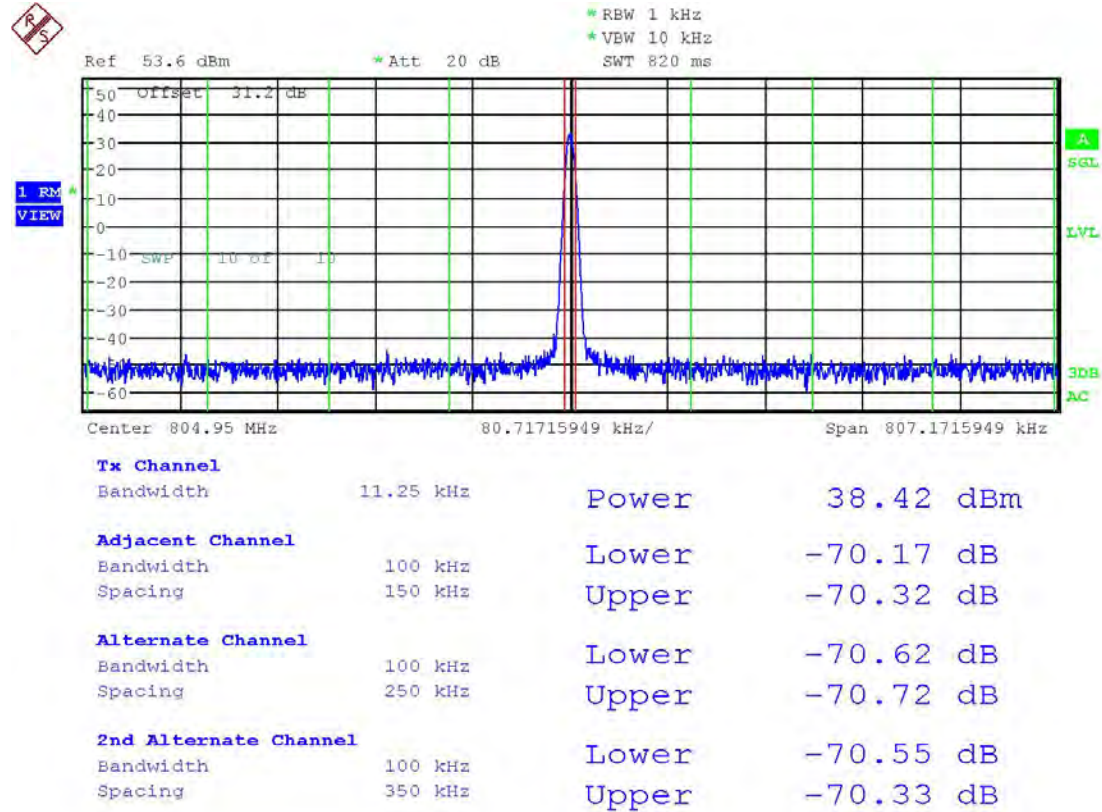
Date: 18.AUG.2015 11:50:06

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K17F1E/8K17F1D

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:50:41

Swept 30 KHz Bandwidth Measurement

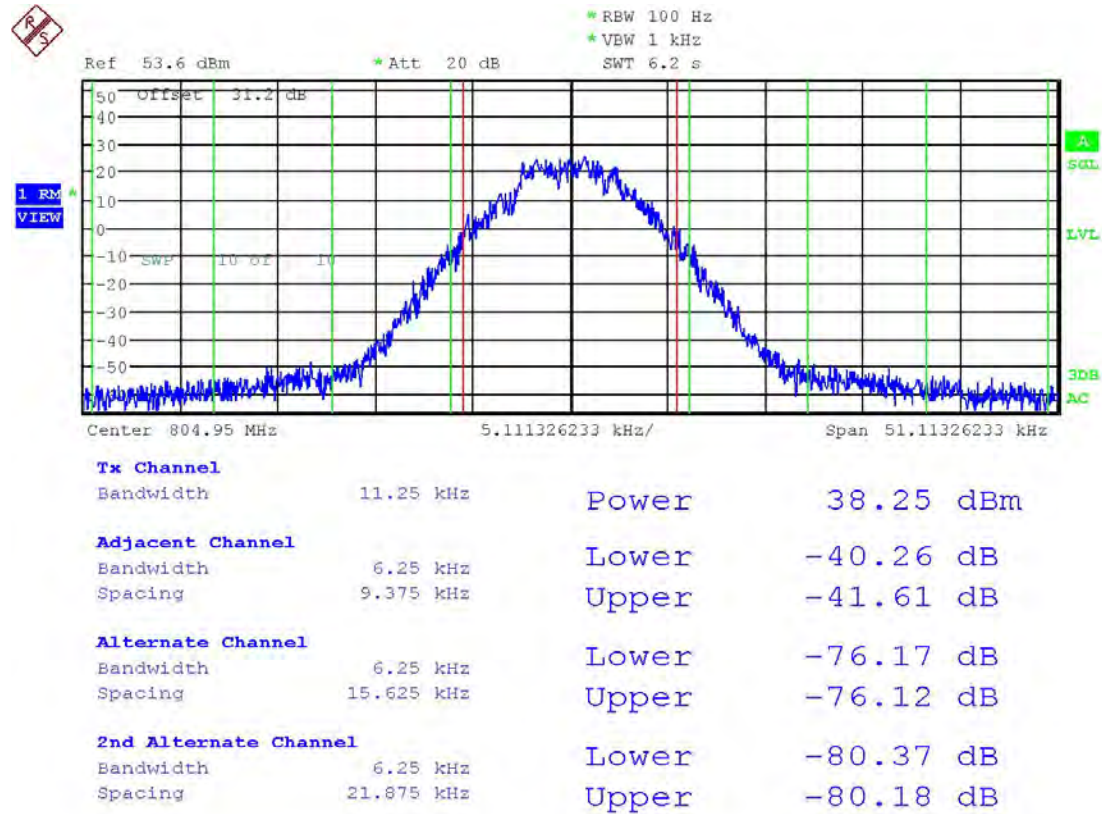
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-79.9	4.9
		Lower	-80.1	5.1
12 MHz to paired rx band	-75	-84.6		9.6
In the paired rx band	-100	-104.7		4.7

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-7K80FXE/7K80FXD/7K80FXW

6.25 KHz Measurement Bandwidth



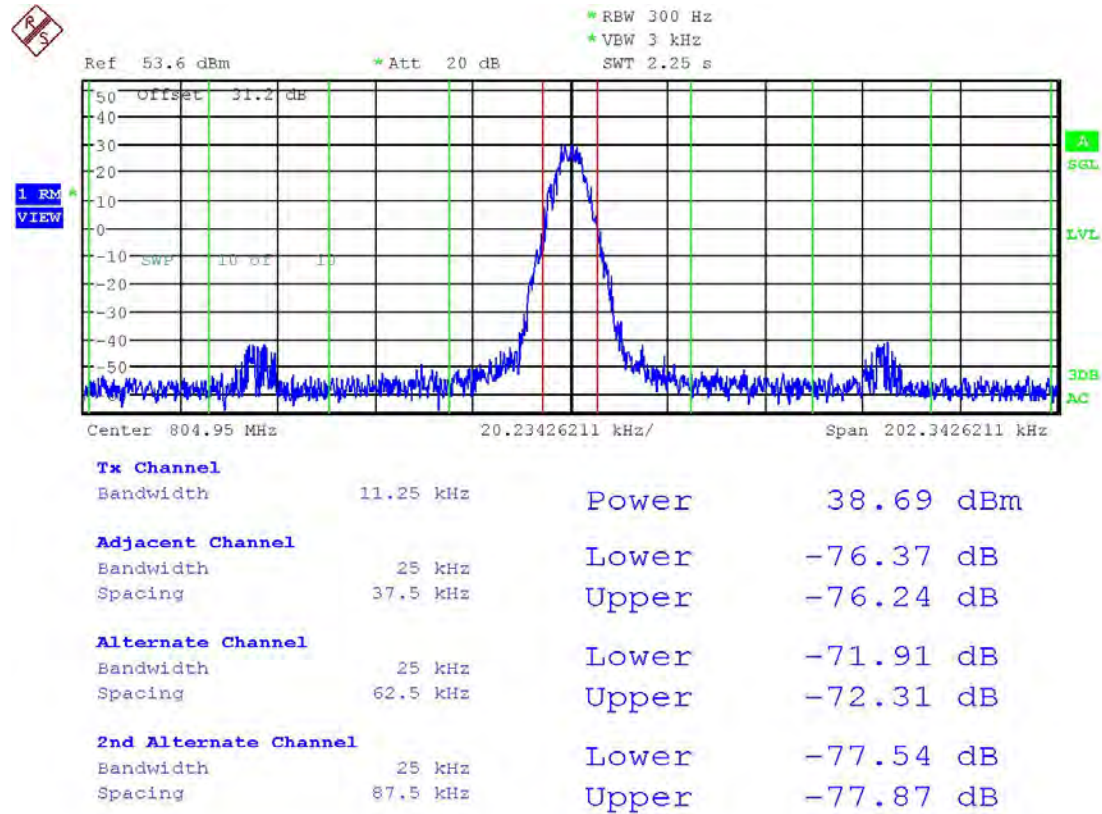
Date: 18.AUG.2015 11:45:24

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-7K80FXE/7K80FXD/7K80FXW

25 KHz Measurement Bandwidth



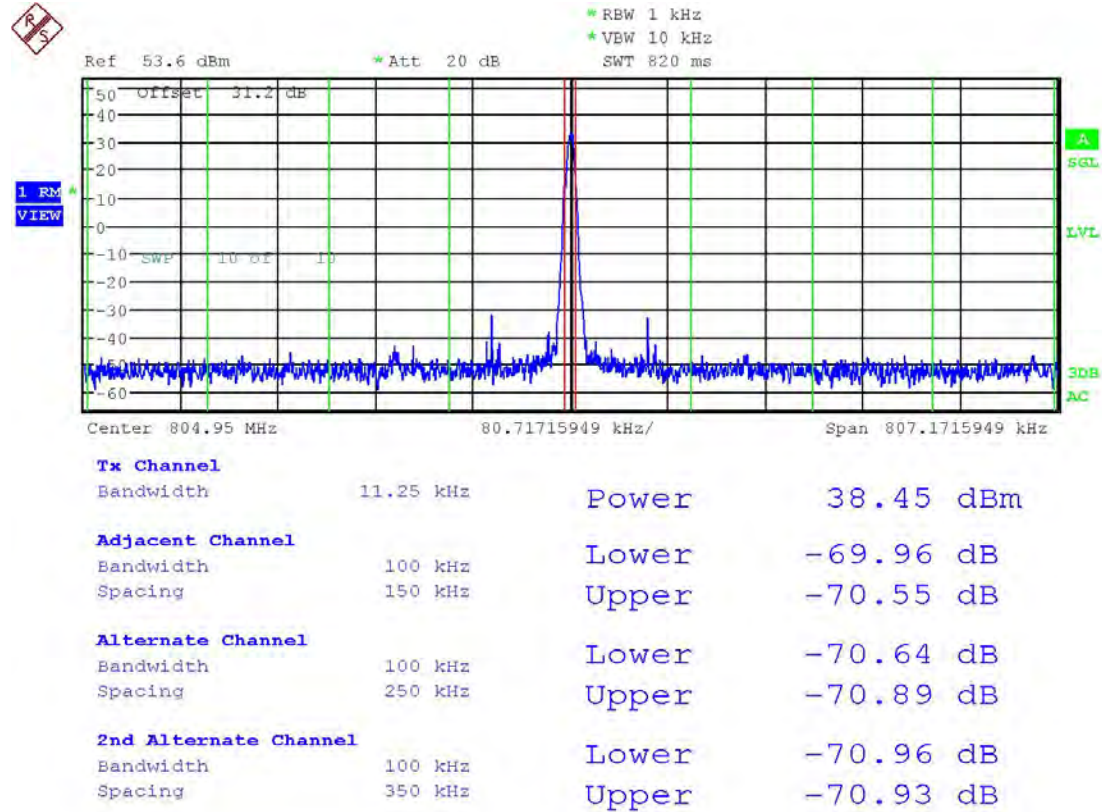
Date: 18.AUG.2015 11:46:43

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-7K80FXE/7K80FXD/7K80FXW

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:47:28

Swept 30 KHz Bandwidth Measurement

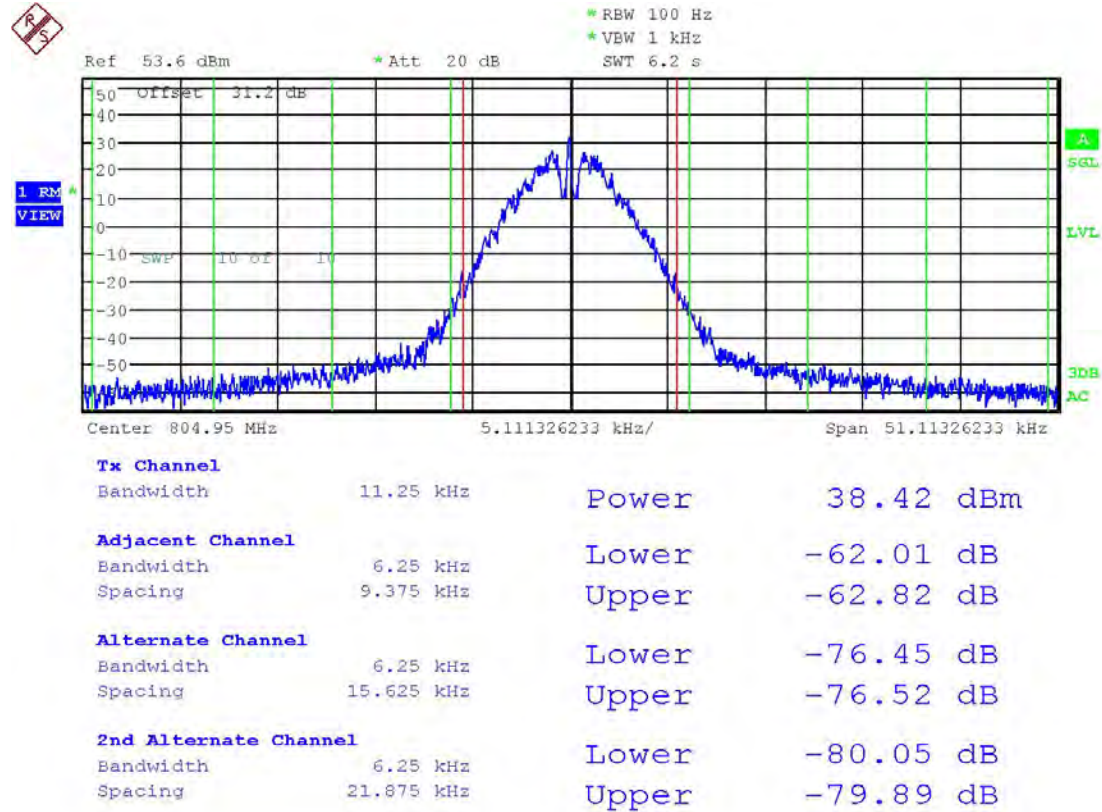
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-80.1	5.1
		Lower	-80	5.0
12 MHz to paired rx band	-75	-84.1		9.1
In the paired rx band	-100	-104.7		4.7

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-5K41F2E

6.25 KHz Measurement Bandwidth



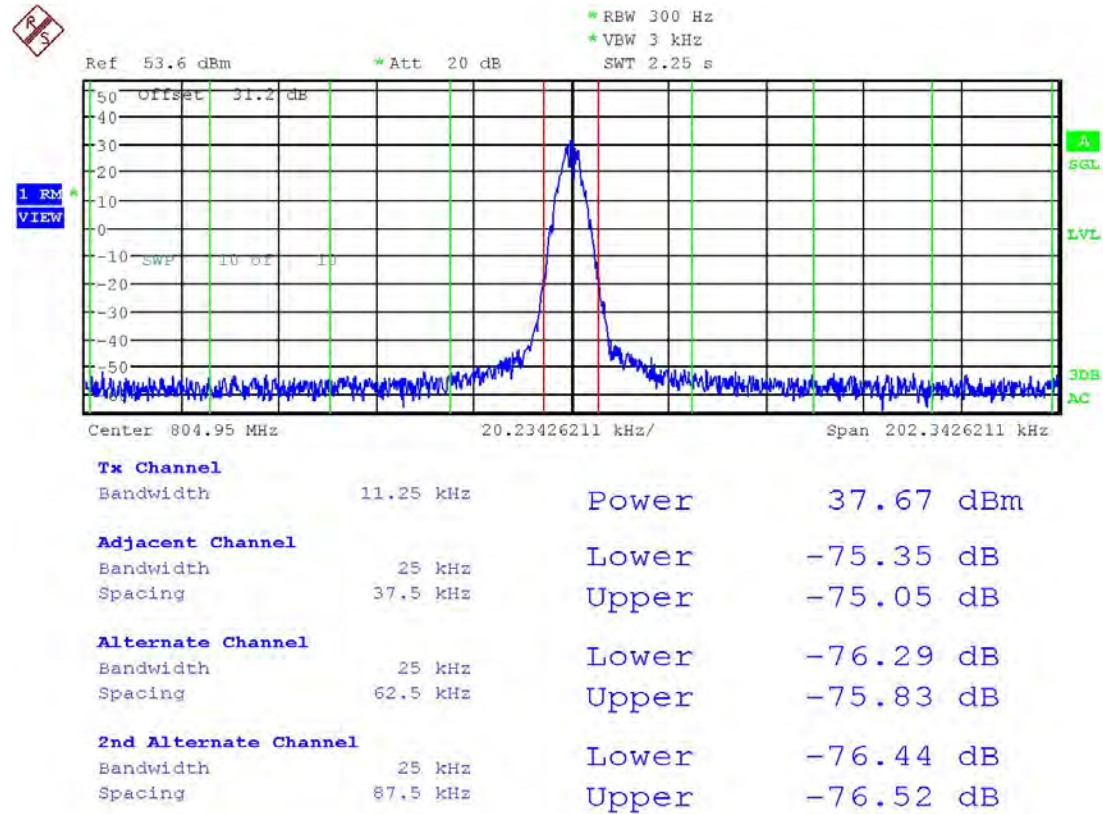
Date: 18.AUG.2015 11:40:02

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-5K41F2E

25 KHz Measurement Bandwidth



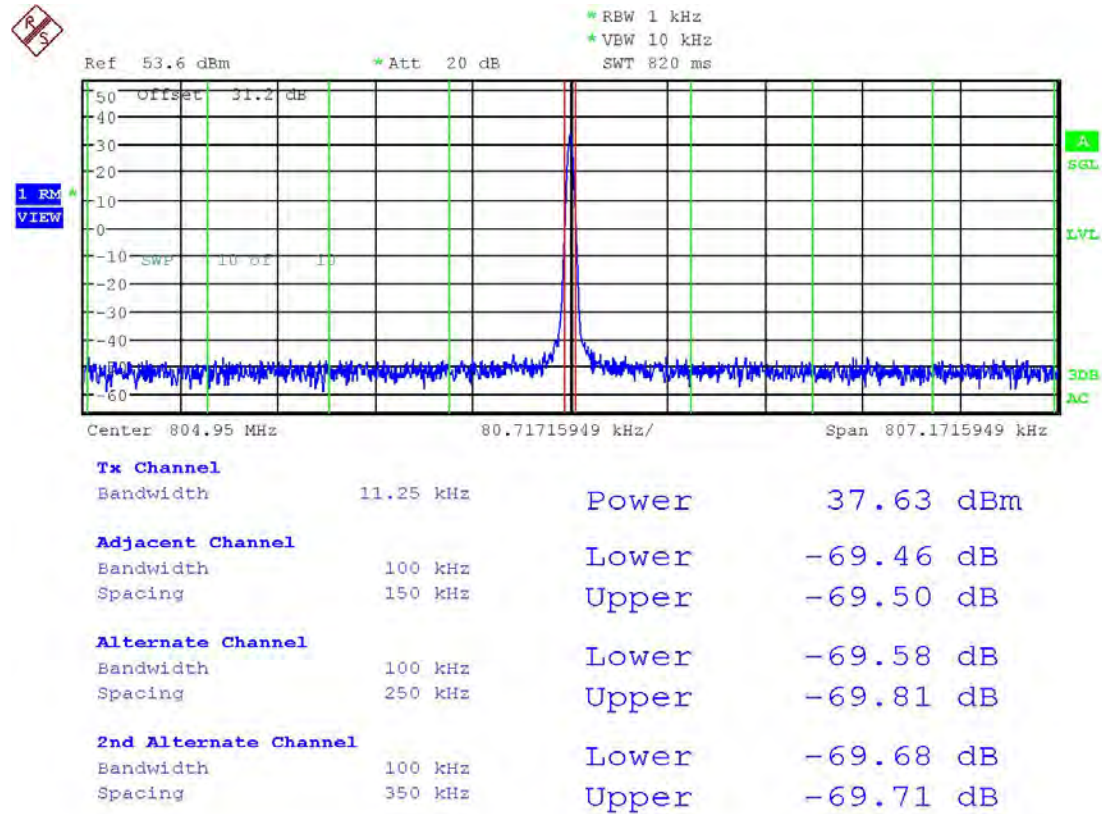
Date: 18.AUG.2015 11:40:50

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-5K41F2E

100 KHz Measurement Bandwidth



Date: 18.AUG.2015 11:41:25

Swept 30 KHz Bandwidth Measurement

Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-80.1	5.1
		Lower	-80.2	5.2
12 MHz to paired rx band	-75	-84.7		9.7
In the paired rx band	-100	-104.2		4.2

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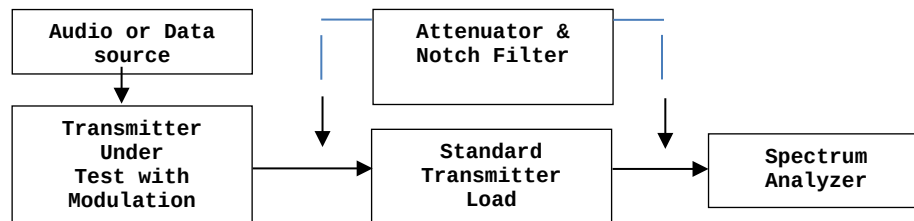
SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

RULE PART NO.: Part 2.1051(a), 90.210(b)(g)(h), 90.691, 90.543(c)

REQUIREMENTS: 12.5 kHz Channel Spacing = $50 + 10 \log (P_o) = \text{dBc}$
25KHz Channel Spacing = $43 + 10 \log (P_o) = \text{dBc}$

METHOD OF MEASUREMENT: ANSI/TIA-603 § 2.2.13 Unwanted Emissions:
Conducted Spurious

TEST SETUP DIAGRAM:



TEST DATA: All modes of modulation and channel spacing were investigated at three places in each band The data reported in the following table represents the worst case for each band.

Test Data: High Power 769.05 MHz

	dBm	Watts	Limit
Power Output	34.7	2.95	54.7
	Frequency	dBc	Margin
	769.05	0	0.0
	1538.10	81.3	26.6
	2307.15	77.1	22.4
	3076.20	104.9	50.2
	3845.25	104.7	50.0
	4614.30	111.2	56.5
	5383.35	111.5	56.8
	6152.40	111.4	56.7
	6921.45	111.8	57.1
	7690.50	111.3	56.6

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 772.05 MHz

	dBm	Watts	Limit
Power Output	34.7	2.95	54.7
	Frequency	dBc	Margin
	772.05	0	0.0
	1544.10	82.6	27.9
	2316.15	78.2	23.5
	3088.20	104.3	49.6
	3860.25	104.2	49.5
	4632.30	111.7	57.0
	5404.35	111.1	56.4
	6176.40	111.4	56.7
	6948.45	111.8	57.1
	7720.50	111.6	56.9

SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 774.95 MHz

	dBm	Watts	Limit
Power Output	34.7	2.95	54.7
	Frequency	dBc	Margin
	774.95	0	0.0
	1549.90	82.3	27.6
	2324.85	78.6	23.9
	3099.80	104.8	50.1
	3874.75	105.0	50.3
	4649.70	111.3	56.6
	5424.65	110.9	56.2
	6199.60	111.4	56.7
	6974.55	111.9	57.2
	7749.50	111.8	57.1

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 799.05 MHz

	dBm	Watts	Limit
Power Output	34.7	2.95	54.7
	Frequency	dBc	Margin
	799.05	0	0.0
	1598.10	82.2	27.5
	2397.15	77.8	23.1
	3196.20	105.9	51.2
	3995.25	106.3	51.6
	4794.30	112.3	57.6
	5593.35	112.1	57.4
	6392.40	112.5	57.8
	7191.45	112.3	57.6
	7990.50	112.6	57.9

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 802.05 MHz

	dBm	Watts	Limit
Power Output	34.7	2.95	54.7
	Frequency	dBc	Margin
	802.05	0	0.0
	1604.10	81.2	26.5
	2406.15	75.9	21.2
	3208.20	104.5	49.8
	4010.25	104.6	49.9
	4812.30	110.2	55.5
	5614.35	110.3	55.6
	6416.40	110.6	55.9
	7218.45	111.8	57.1
	8020.50	111.8	57.1

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 804.95 MHz

	dBm	Watts	Limit
Power Output	34.7	2.95	54.7
	Frequency	dBc	Margin
	804.95	0	0.0
	1609.90	92.4	37.7
	2414.85	65.7	11.0
	3219.80	102.7	48.0
	4024.75	111.8	57.1
	4829.70	111.3	56.6
	5634.65	111.8	57.1
	6439.60	111.7	57.0
	7244.55	111.8	57.1
	8049.50	96.4	41.7

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 806.05 MHz

	dBm	Watts	Limit
Power Output	34.7	2.95	54.7
	Frequency	dBc	Margin
	806.05	0	0.0
	1612.10	91.8	37.1
	2418.15	65.9	11.2
	3224.20	102.8	48.1
	4030.25	112.0	57.3
	4836.30	111.4	56.7
	5642.35	111.9	57.2
	6448.40	111.8	57.1
	7254.45	111.9	57.2
	8060.50	96.2	41.5

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 815.05 MHz

	dBm	Watts	Limit
Power Output	35.5	3.55	55.5
	Frequency	dBc	Margin
	815.00	0	0.0
	1630.00	82.2	26.7
	2445.00	69.3	13.8
	3260.00	106.0	50.5
	4075.00	112.3	56.8
	4890.00	112.0	56.5
	5705.00	112.6	57.1
	6520.00	112.5	57.0
	7335.00	112.6	57.1
	8150.00	112.0	56.5

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 823.95 MHz

	dBm	Watts	Limit
Power Output	35.5	3.55	55.5
	Frequency	dBc	Margin
	823.95	0	0.0
	1647.90	82.0	26.5
	2471.85	69.4	13.9
	3295.80	106.0	50.5
	4119.75	112.6	57.1
	4943.70	112.2	56.7
	5767.65	112.6	57.1
	6591.60	112.7	57.2
	7415.55	112.6	57.1
	8239.50	112.6	57.1

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 851.05 MHz

	dBm	Watts	Limit
Power Output	35.5	3.55	55.5
	Frequency	dBc	Margin
	851.05	0	0.0
	1702.10	82.6	27.1
	2553.15	69.4	13.9
	3404.20	106.0	50.5
	4255.25	112.3	56.8
	5106.30	112.2	56.7
	5957.35	112.6	57.1
	6808.40	112.7	57.2
	7659.45	112.6	57.1
	8510.50	111.9	56.4

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 860.05 MHz

	dBm	Watts	Limit
Power Output	35.5	3.55	55.5
	Frequency	dBc	Margin
	860.05	0	0.0
	1720.10	90.1	34.6
	2580.15	76.2	20.7
	3440.20	95.7	40.2
	4300.25	101.5	46.0
	5160.30	100.2	44.7
	6020.35	110.5	55.0
	6880.40	111.1	55.6
	7740.45	111.2	55.7
	8600.50	105.7	50.2

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 868.95 MHz

	dBm	Watts	Limit
Power Output	35.5	3.55	55.5
	Frequency	dBc	Margin
	868.95	0	0.0
	1737.90	90.7	35.2
	2606.85	76.7	21.2
	3475.80	95.8	40.3
	4344.75	101.6	46.1
	5213.70	100.6	45.1
	6082.65	109.9	54.4
	6951.60	110.6	55.1
	7820.55	111.5	56.0
	8689.50	111.4	55.9

FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

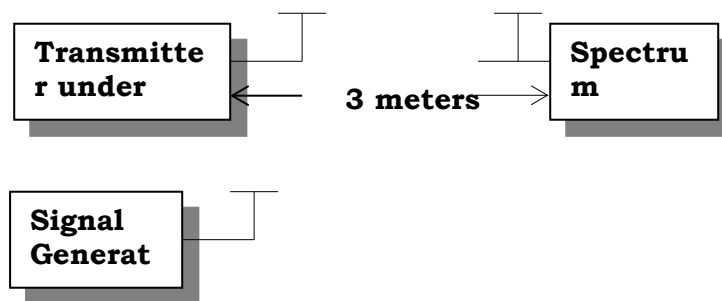
RULE PARTS. NO.: Part 2.1053, 90.210, 90.543(c)(f)

REQUIREMENTS: Out of Band Emission Limits

Transmit Band (MHz)	Equipment Type	Rule Part	Requirement
769-775 & 799-805	All Types	90.543(c)	43 + 10log (P) dB Except for emissions in the band 1559-1610 MHz
		90.543(f)	-70 dBW/MHz EIRP for wideband signals, & -80 dBW/MHz EIRP for discrete emissions of less than 700 Hz bandwidth for all emissions in the band 1559-1610 MHz
806-824 & 851-869	With Audio Low Pass Filter	90.210(b)(3)	43 + 10 log (P) dB.
806-809 & 851-854	Without Audio Low Pass Filter	90.210(h)(5)	43 + 10 log (P) dB.
809-824 & 854-869	Without Audio Low Pass Filter	90.210(g)(2)	43 + 10 log (P) dB.
809-824 & 854-869	All Equipment Types (EA-Band)	90.691(a)(2)	43 + 10 log (P) dB.

METHOD OF MEASUREMENT: ANSI/TIA-603 § 2.2.12 Unwanted Emissions: Radiated Spurious

TEST SETUP DIAGRAM:



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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

Test Data: High Power 772.05 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
772.05	Hi	34.70	2.95	54.70	12.50
Emission Frequency (MHz)	Ant. Polarity		Below Carrier (dBc)	Margin	
1,544.10	H		84.67	36.77	
2,316.15	H		81.81	33.91	
3,088.20	H		76.87	28.97	
3,860.25	H		73.45	25.55	
4,632.30	V		81.15	33.25	
5,404.35	V		72.87	24.97	
6,176.40	H		70.75	22.85	
6,948.45	H		70.59	22.69	
7,720.50	V		71.20	23.30	

Emissions in Band 1559 – 1610 MHz

Tuned Freq MHz	Emission Freq MHz	Meter Reading dBuV	Ant Polarity	Coax Loss Db	Correction Factor dB/M	Field Strength dBu V/M	EIRP dBW/MHz	Margin dB
772.05	1569.625	12.32	V	3.10051	28.4799995	43.90051	-81.3994873	11.39949
772.05	1601.254	13.26	H	3.13699	28.6900005	45.08699	-80.2130096	10.21301

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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

Test Data: High Power 802.05 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
802.05	Hi	34.70	2.95	54.70	12.50
Emission Frequency (MHz)	Ant. Polarity		Below Carrier (dBc)	Margin	
1,604.10	V		82.89	35.39	
2,406.15	V		79.84	32.34	
3,208.20	V		73.98	26.48	
4,010.25	V		73.64	26.14	
4,812.30	H		75.91	28.41	
5,614.35	H		72.58	25.08	
6,416.40	H		71.13	23.63	
7,218.45	V		70.53	23.03	
8,020.50	H		66.62	19.12	

Emissions in Band 1559 – 1610 MHz

Tuned Freq MHz	Emission Freq MHz	Meter Reading dBuV	Ant Polarity	Coax Loss Db	Correction Factor dB/M	Field Strength dBu V/M	EIRP dBW/MHz	Margin dB
802.05	1604.11	21.56	V	3.13014	28.7099991	53.40014	-71.899865	1.899865
802.05	1604.11	19.77	H	3.13014	28.7099991	51.61014	-73.6898621	3.689862

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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

Test Data: High Power 815.05 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
815.00	Hi	35.50	3.55	55.50	12.50
Emission Frequency (MHz)	Ant. Polarity		Below Carrier (dBc)	Margin	
1,630.00	H		83.82	36.32	
2,445.00	H		81.57	34.07	
3,260.00	H		76.78	29.28	
4,075.00	V		74.27	26.77	
4,890.00	H		75.50	28.00	
5,705.00	V		72.66	25.16	
6,520.00	H		71.03	23.53	
7,335.00	H		69.43	21.93	
8,150.00	V		65.70	18.20	

Test Data: High Power 860.05 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
860.05	Hi	35.50	3.55	55.50	12.50
Emission Frequency (MHz)	Ant. Polarity		Below Carrier (dBc)	Margin	
1,720.10	V		81.30	33.90	
2,580.15	H		79.61	32.21	
3,440.20	V		73.27	25.87	
4,300.25	H		75.34	27.94	
5,160.30	V		74.54	27.14	
6,020.35	H		70.35	22.95	
6,880.40	H		70.33	22.93	
7,740.45	H		68.52	21.12	
8,600.50	V		65.69	18.29	

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FREQUENCY STABILITY

RULE PARTS. NO.: Part 2.1055, Part 90.213, 90.539(c)

Requirements: Temperature range requirements: -30 to +50° C.
Voltage Variation +, -15%

Frequency Band (MHz)	Frequency Stability (PPM)	Channel Bandwidth (KHz)
769 - 775	±1.5	12.5
799 - 805	±1.5	
769 - 775	±2.5	25
799 - 805	±2.5	
806 - 809	±1.5	12.5, 20, 25
809 - 824	±2.5	
851 - 854	±1.5	
854 - 869	±2.5	

METHOD OF MEASUREMENTS: ANSI/TIA-603 § 2.2.2 Carrier Frequency Stability

Test Data: 815.05 MHz 12.5 KHz

All modes of operation were checked in each band, the worst case is reported below.

Temperature	Frequency MHz	Cycles	PPM
25°C (reference)	814.999045		
-30°C	814.999103	58	0.071
-20°C	814.999124	79	0.097
-10°C	814.999118	73	0.090
0°C	814.999068	23	0.028
10°C	814.999162	117	0.144
20°C	814.999179	134	0.164
30°C	814.999111	66	0.081
40°C	814.999072	27	0.033
50°C	814.999089	44	0.054
Battery Voltage	Frequency	Cycles	PPM
-15%	814.999036	-9	-0.011
15%	814.999038	-7	-0.009

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EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
DC Power Supply	HP	6286A	1744A03842	NA	NA
Antenna: Active Loop	ETS-Lindgren	6502	00062529	10/09/13	10/09/15
Antenna: Biconnical Chamber	Eaton Chamber	94455-1	1057	06/14/13	12/14/15
Antenna: Log-Periodic Chamber	Eaton	96005	1243	05/31/13	11/30/15
AC Voltmeter	HP	400FL	2213A14728	06/26/13	06/26/15
Digital Multimeter	Fluke	77	35053830	08/22/13	08/22/15
Frequency Counter Small Chamber	HP	5385A	3242A07460	07/01/15	07/01/17
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	12/31/13	12/31/15
Ant: Double-Ridged Horn/ETS Horn 1 Ch	ETS-Lindgren Chamber	3117	00035923	06/13/14	06/13/16
Temperature Chamber Small	Thermotron Corp.	S1.2 Mini Max	25-1420-09	08/20/14	08/20/16
Software: Field Strength Program	Timco	N/A	Version 4.0	NA	NA
Hygro-Thermometer	Extech	445703	0602	06/30/15	06/30/17
Signal Generator R & S SMIQ 02	Rohde & Schwarz	SMIQ02	DE24678	06/11/14	06/11/16
Attenuator N 30dB 150W DC-6G	Narda	769-30	10267	06/26/15	06/26/17
EMI Test Receiver R & S ESU 40	Rohde & Schwarz	ESU 40	100320	03/11/14	03/11/16
Signal Generator HP 8648C	HP	8648C	3623A02898	08/29/13	08/29/15

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

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