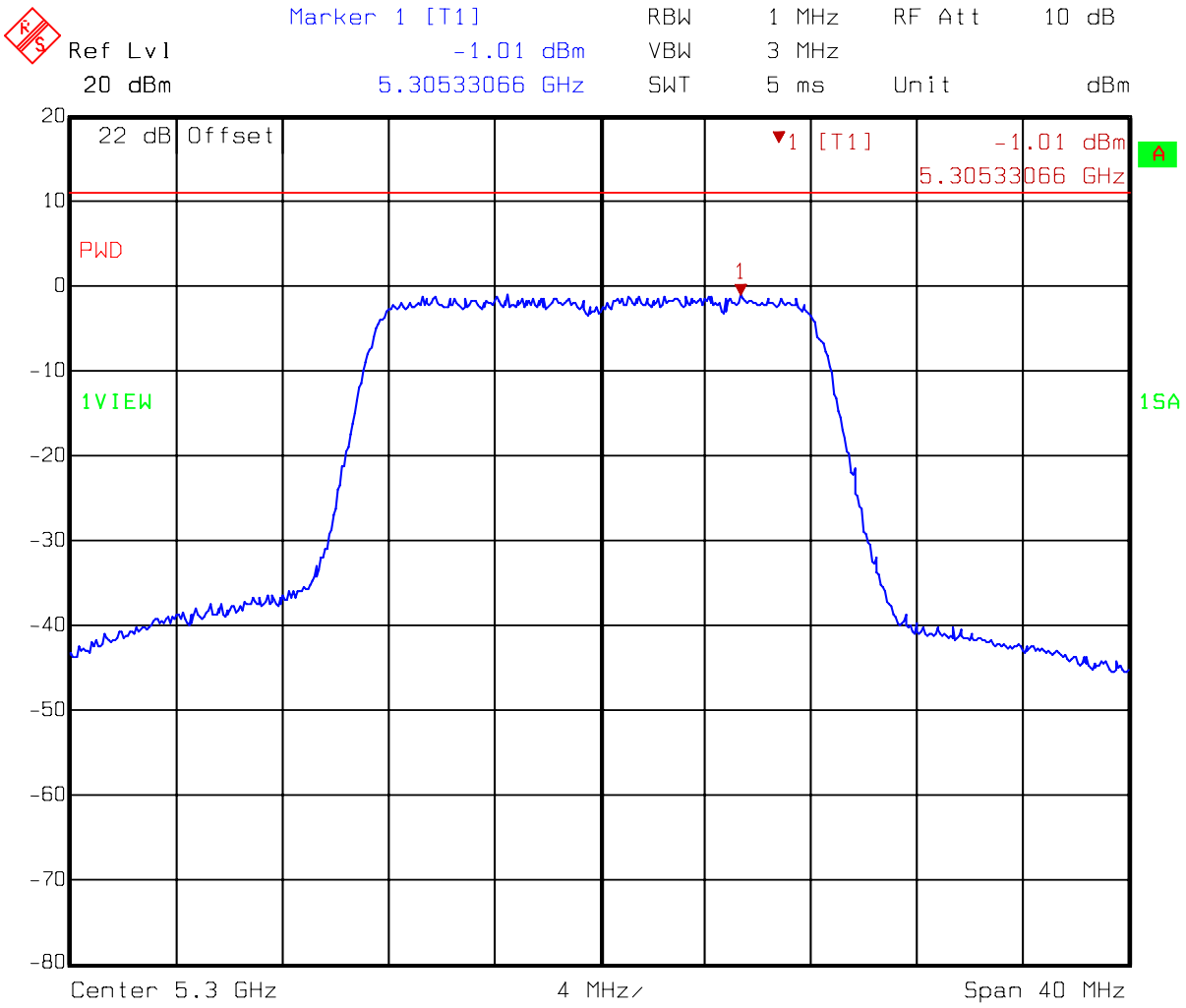
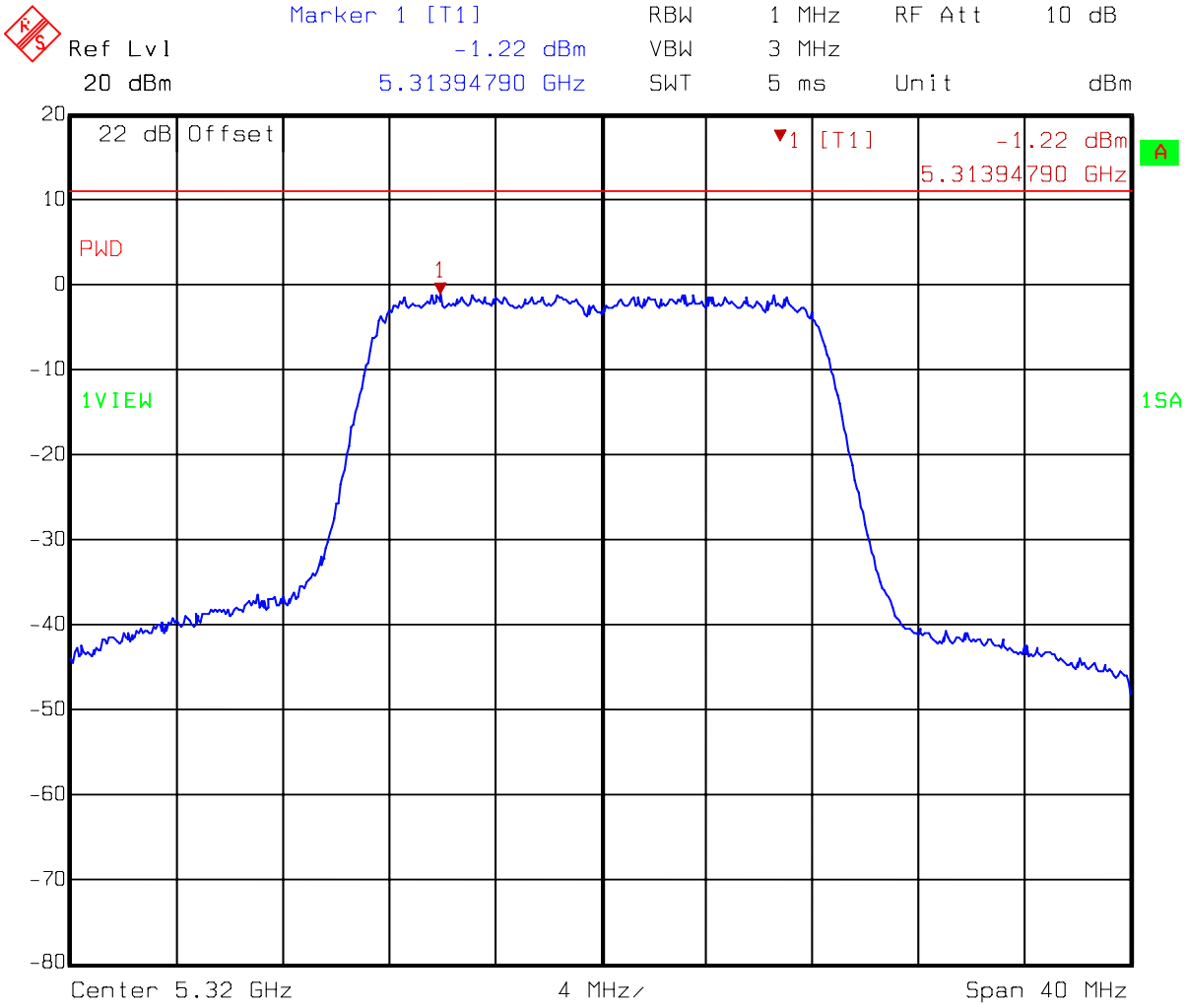
Single Tx
DACB: 802.11a CH60



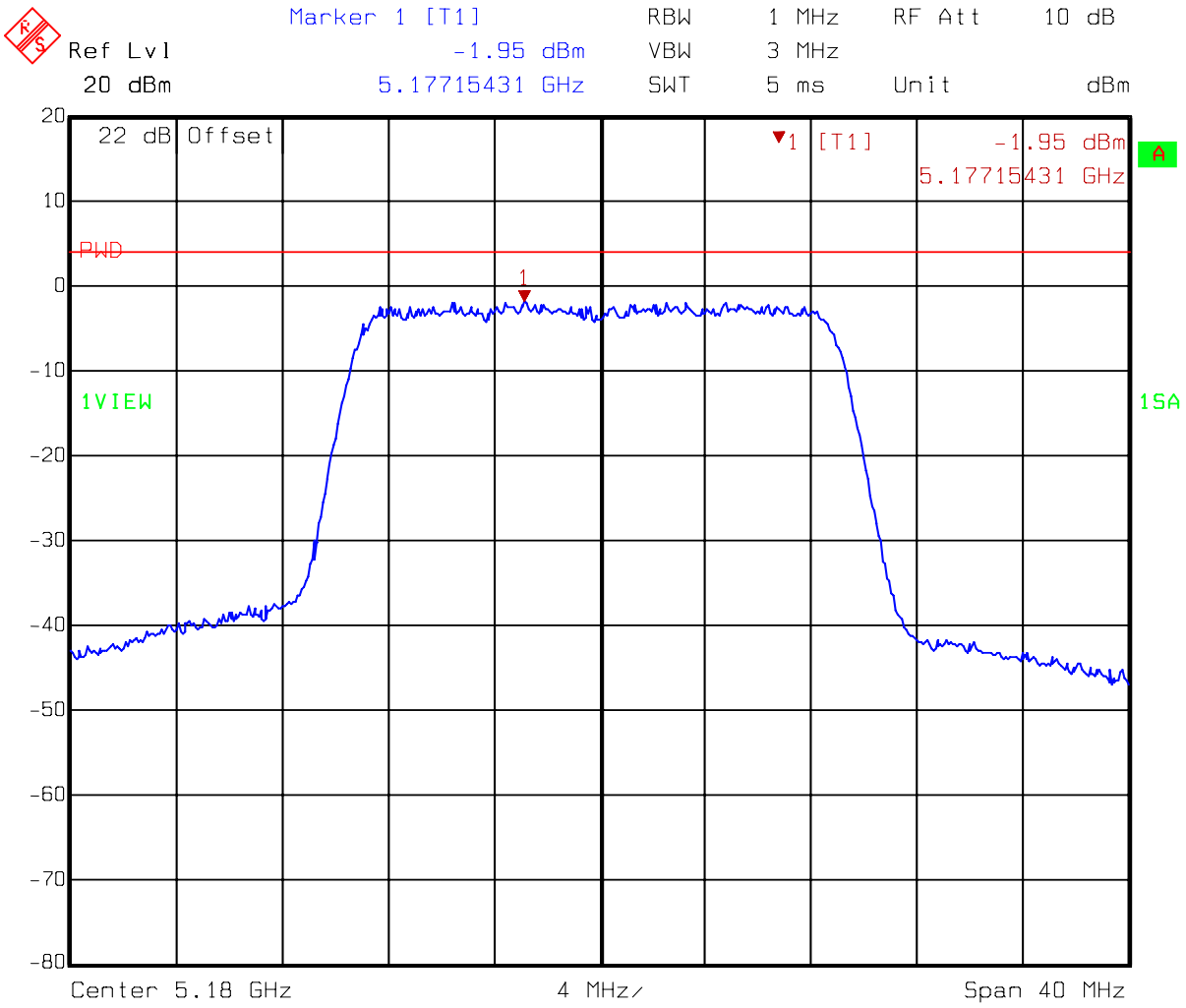
Title: Power Density
Comment A: CH 60 at 802.11a mode
Date: 13.NOV.2007 15:01:18

Single Tx
DACB: 802.11a CH64



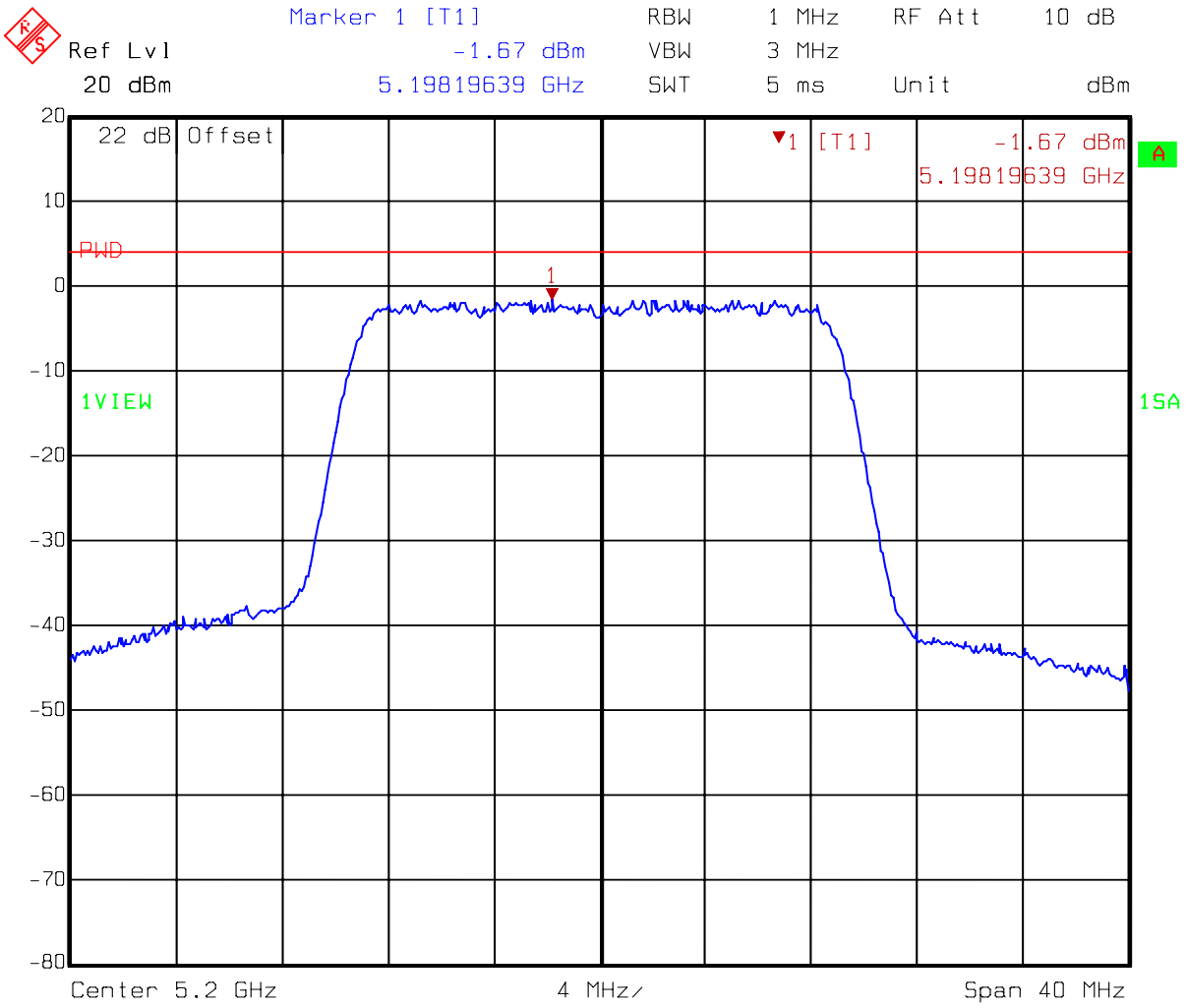
Title: Power Density
Comment A: CH 64 at 802.11a mode
Date: 13.NOV.2007 15:04:32

Dual Tx
DACA: 802.11n 20MHz CH36



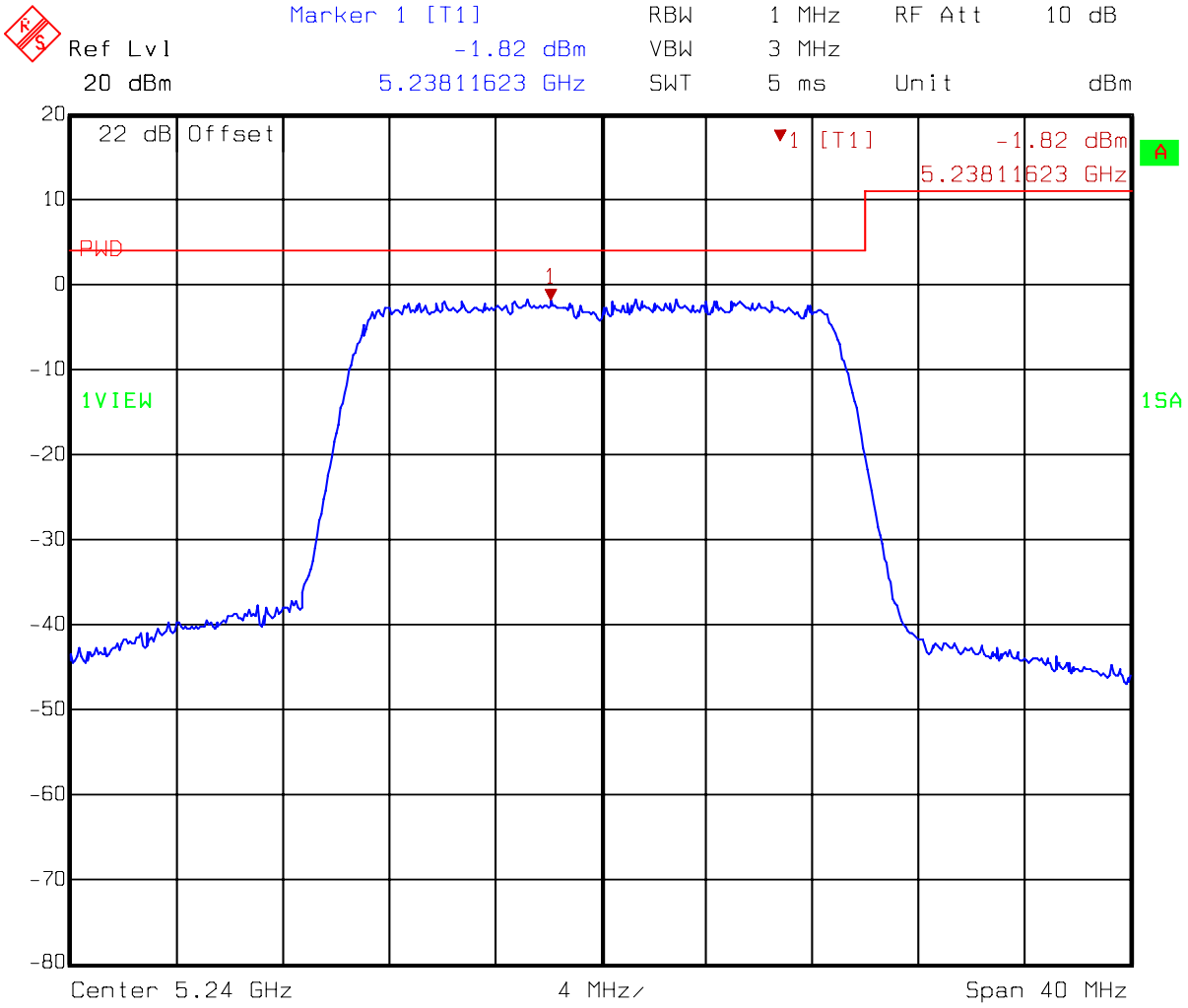
Title: Power Density
Comment A: CH 36 at 802.11a mode
Date: 13.NOV.2007 13:38:25

Dual Tx
DACA: 802.11n 20MHz CH40



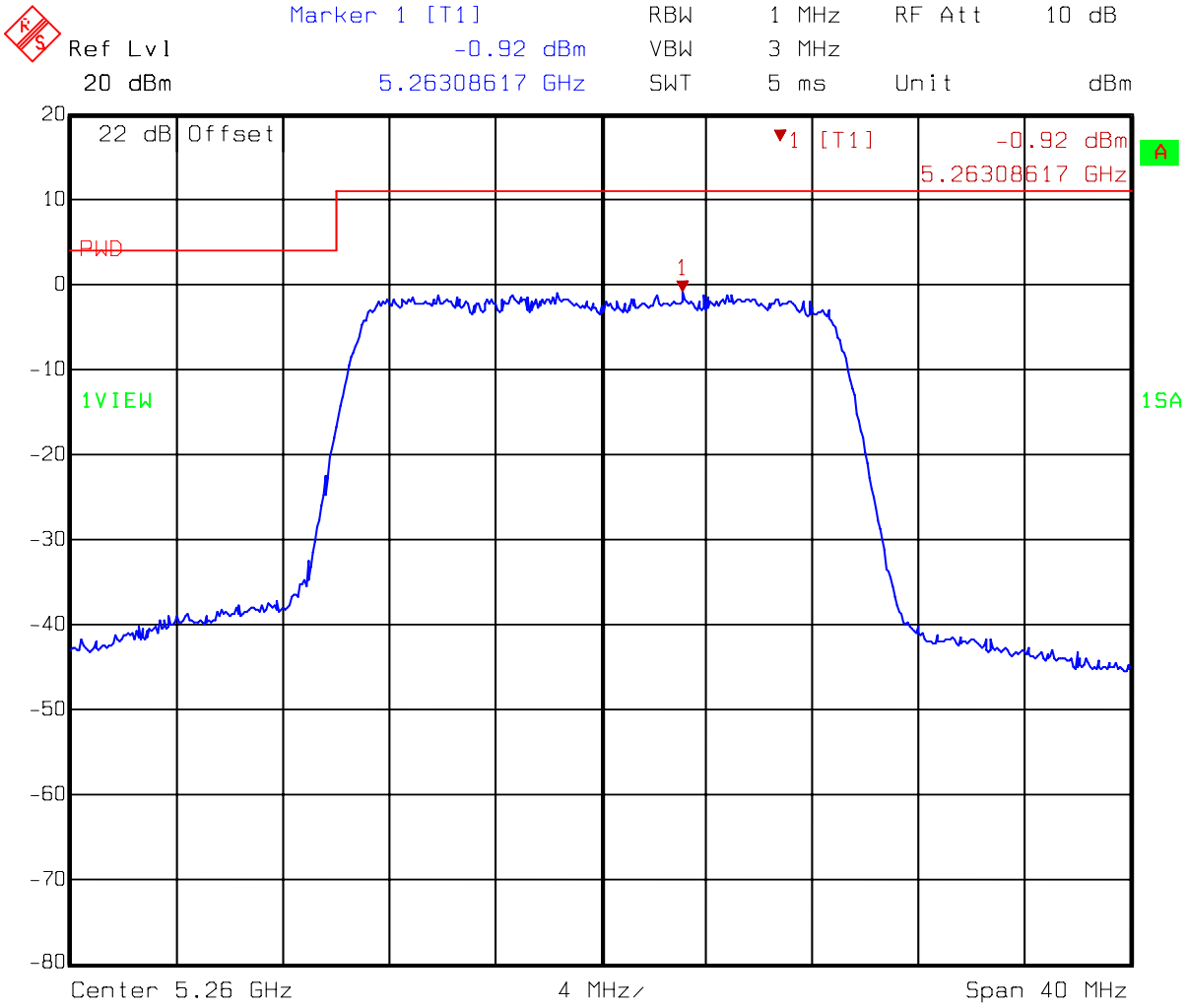
Title: Power Density
Comment A: CH 40 at 802.11a mode
Date: 13.NOV.2007 13:49:41

Dual Tx
DACA: 802.11n 20MHz CH48



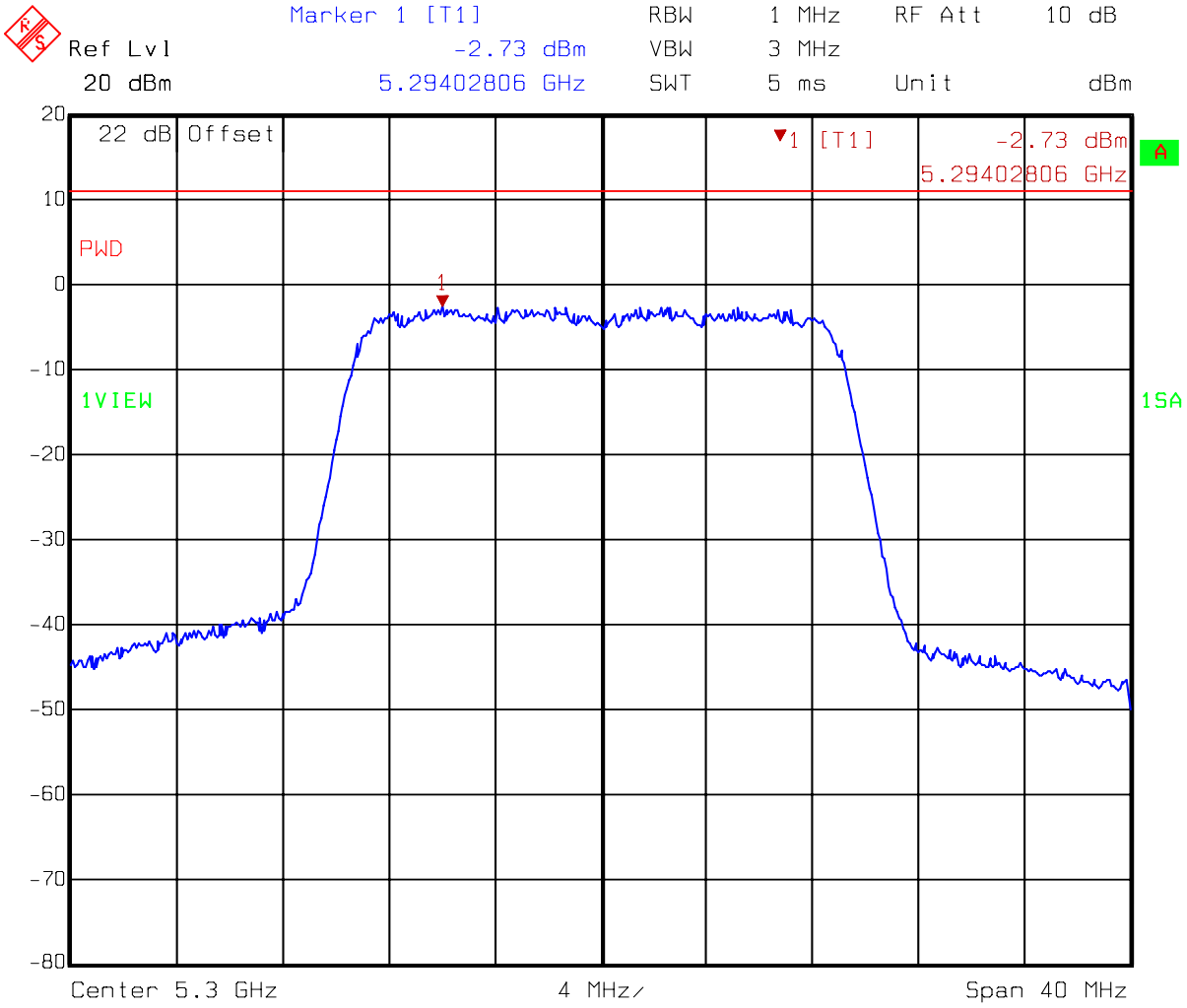
Title: Power Density
Comment A: CH 48 at 802.11a mode
Date: 13.NOV.2007 13:53:30

Dual Tx
DACA: 802.11n 20MHz CH52



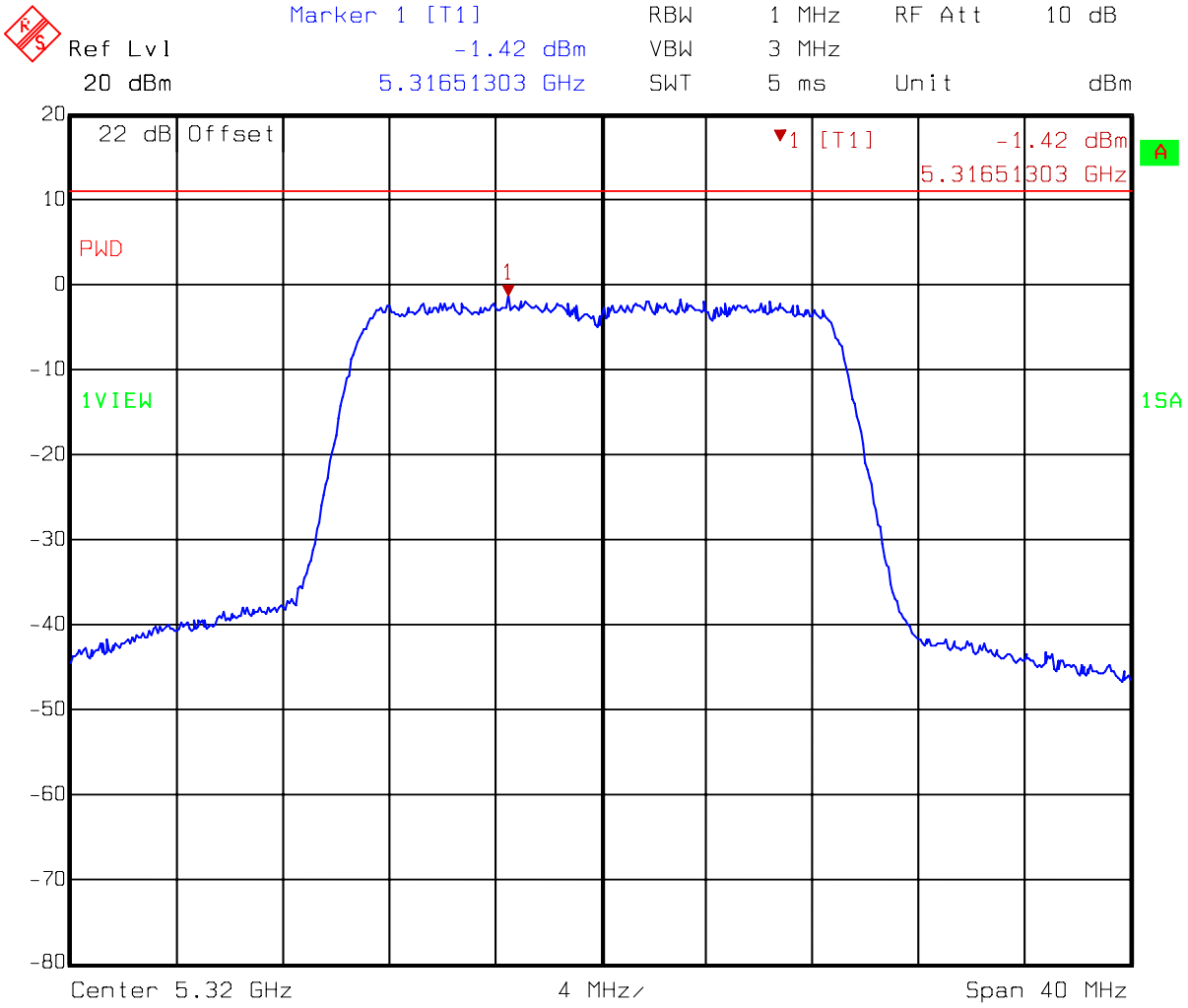
Title: Power Density
Comment A: CH 52 at 802.11a mode
Date: 13.NOV.2007 14:04:19

Dual Tx
DACA: 802.11n 20MHz CH60



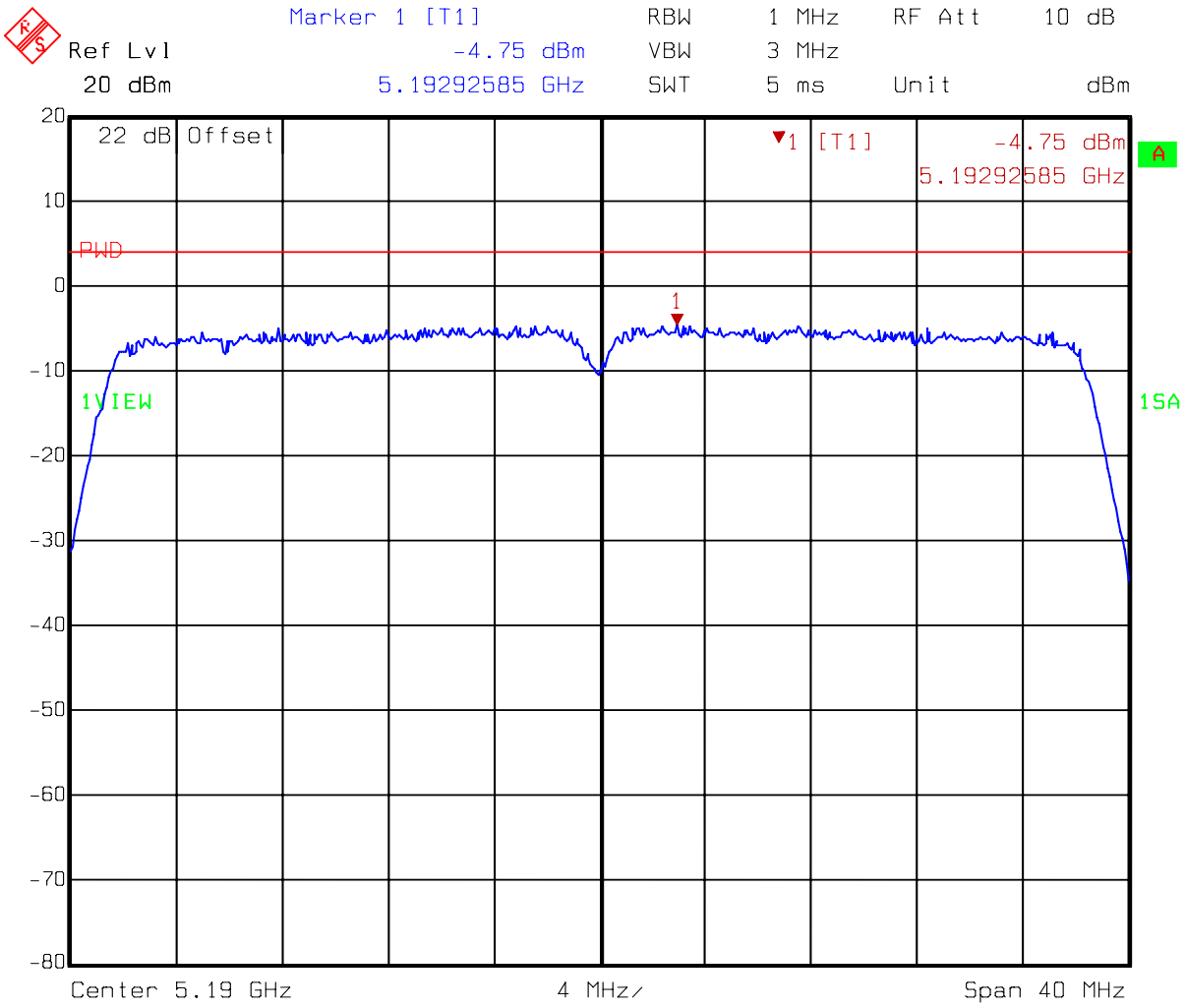
Title: Power Density
Comment A: CH 60 at 802.11a mode
Date: 13.NOV.2007 14:30:43

Dual Tx
DACA: 802.11n 20MHz CH64



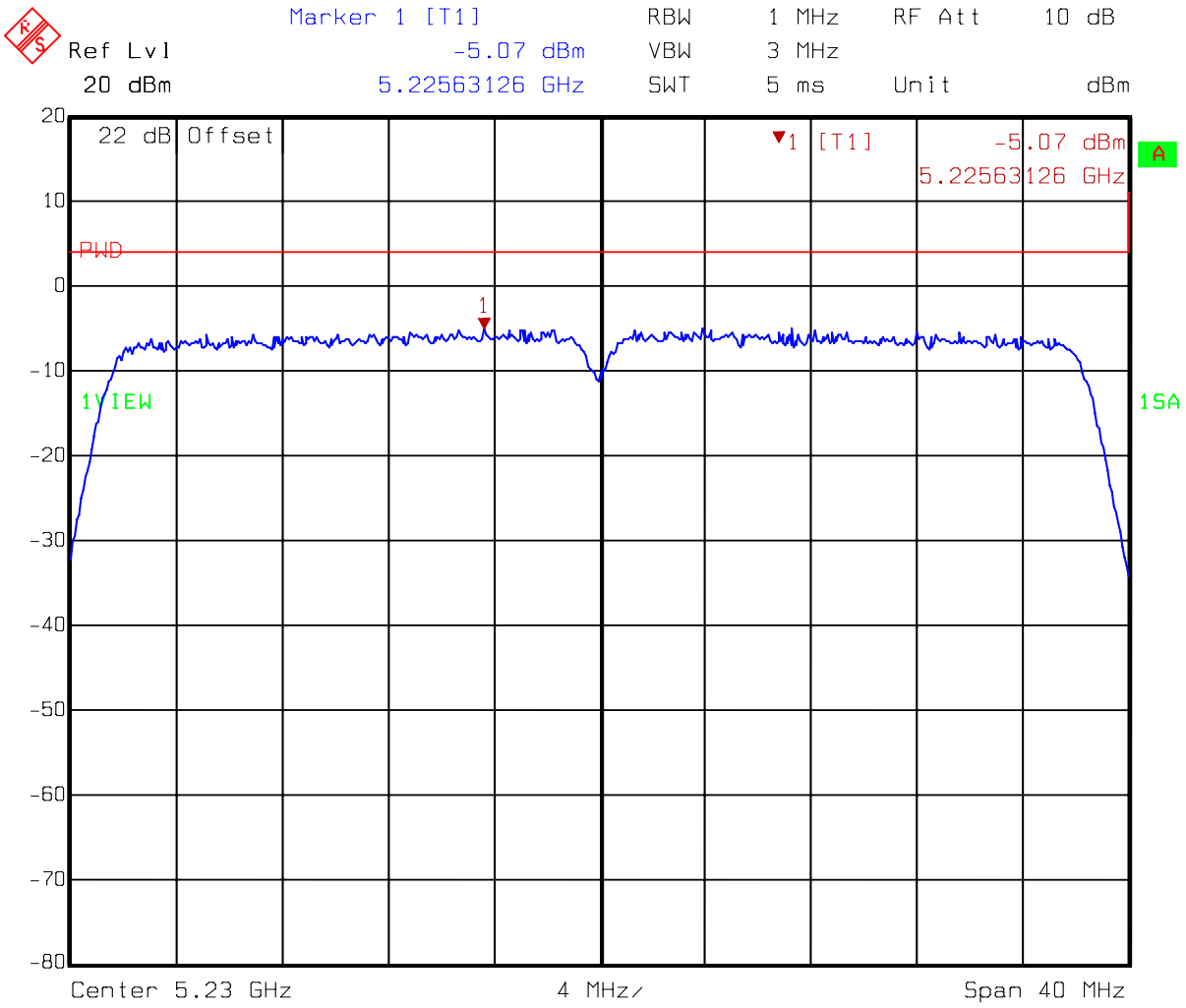
Title: Power Density
Comment A: CH 64 at 802.11a mode
Date: 13.NOV.2007 16:29:29

Dual Tx
DACA: 802.11n 40MHz CH38



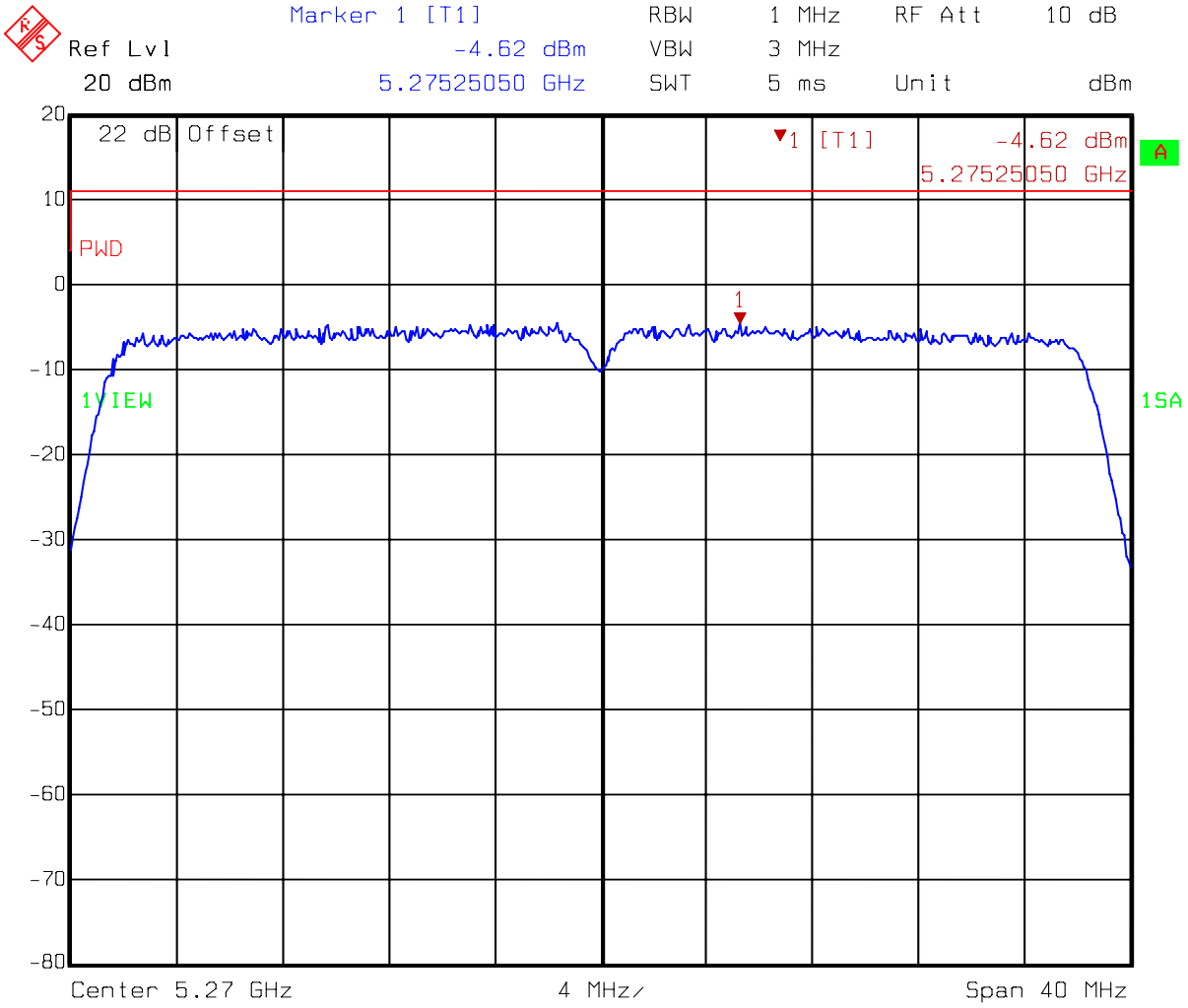
Title: Power Density
Comment A: CH 38 at 802.11a mode
Date: 13.NOV.2007 11:46:47

Dual Tx
DACA: 802.11n 40MHz CH46



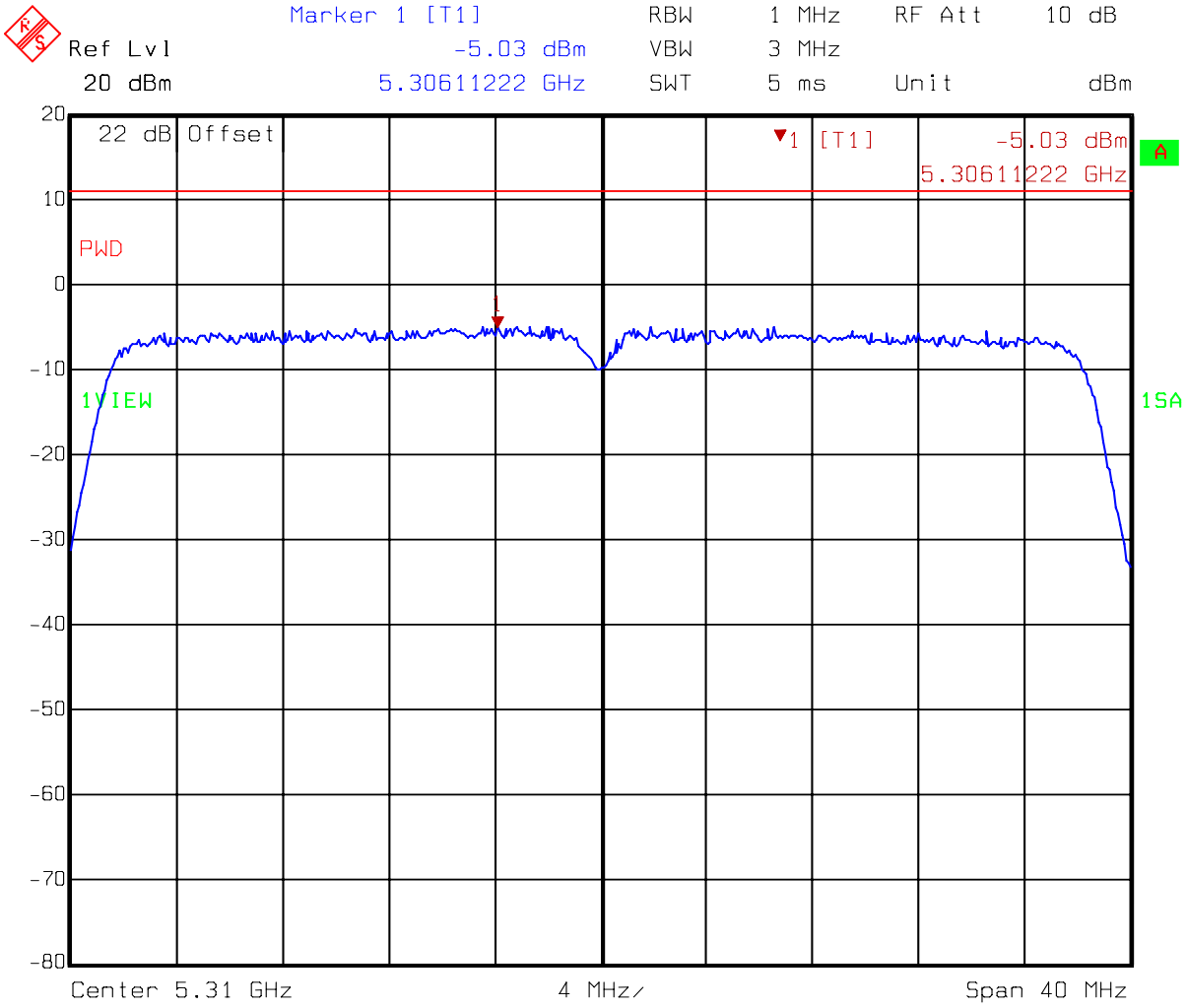
Title: Power Density
Comment A: CH 46 at 802.11a mode
Date: 13.NOV.2007 11:51:11

Dual Tx
DACA: 802.11n 40MHz CH54



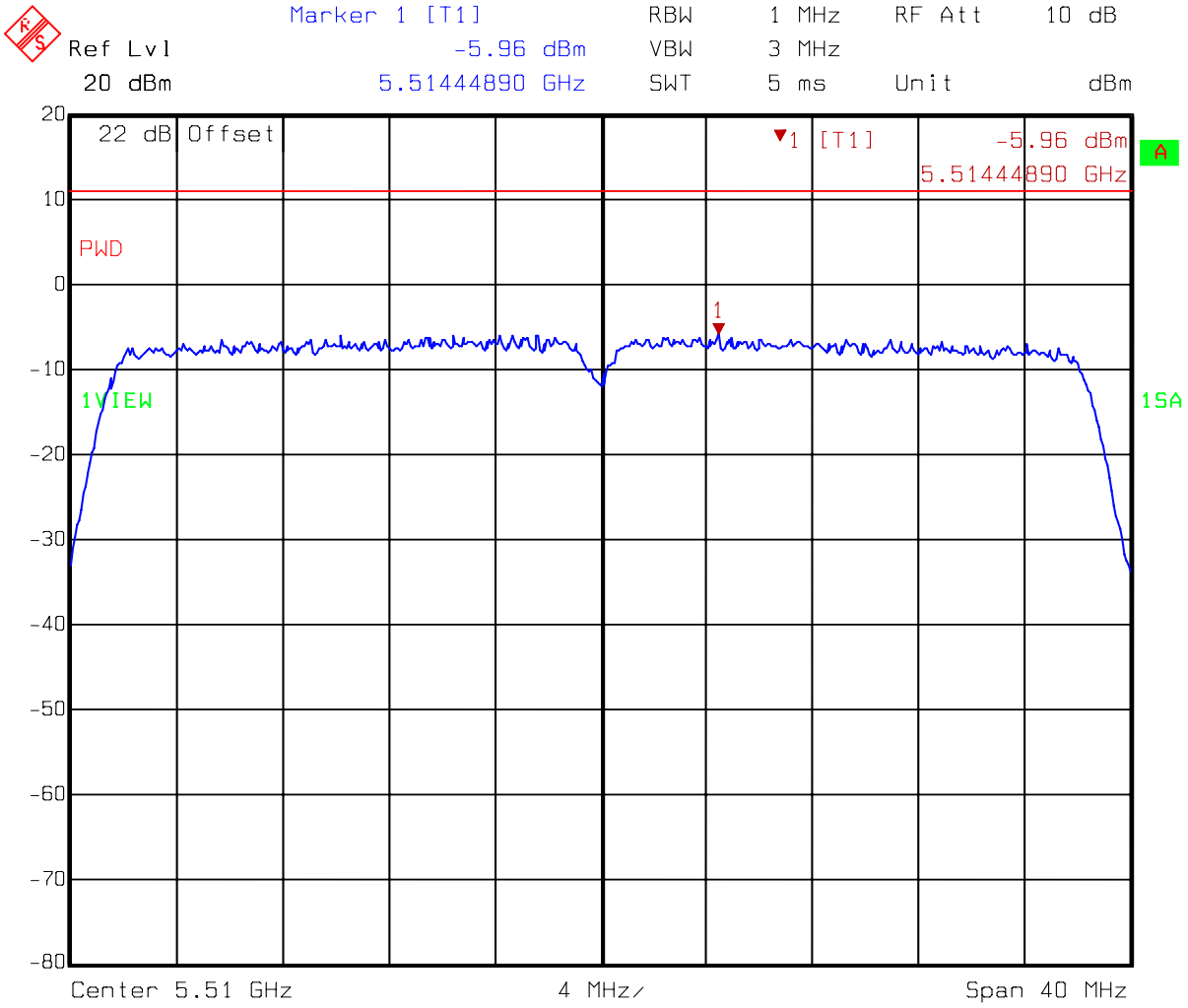
Title: Power Density
Comment A: CH 54 at 802.11a mode
Date: 13.NOV.2007 12:03:04

Dual Tx
DACA: 802.11n 40MHz CH62



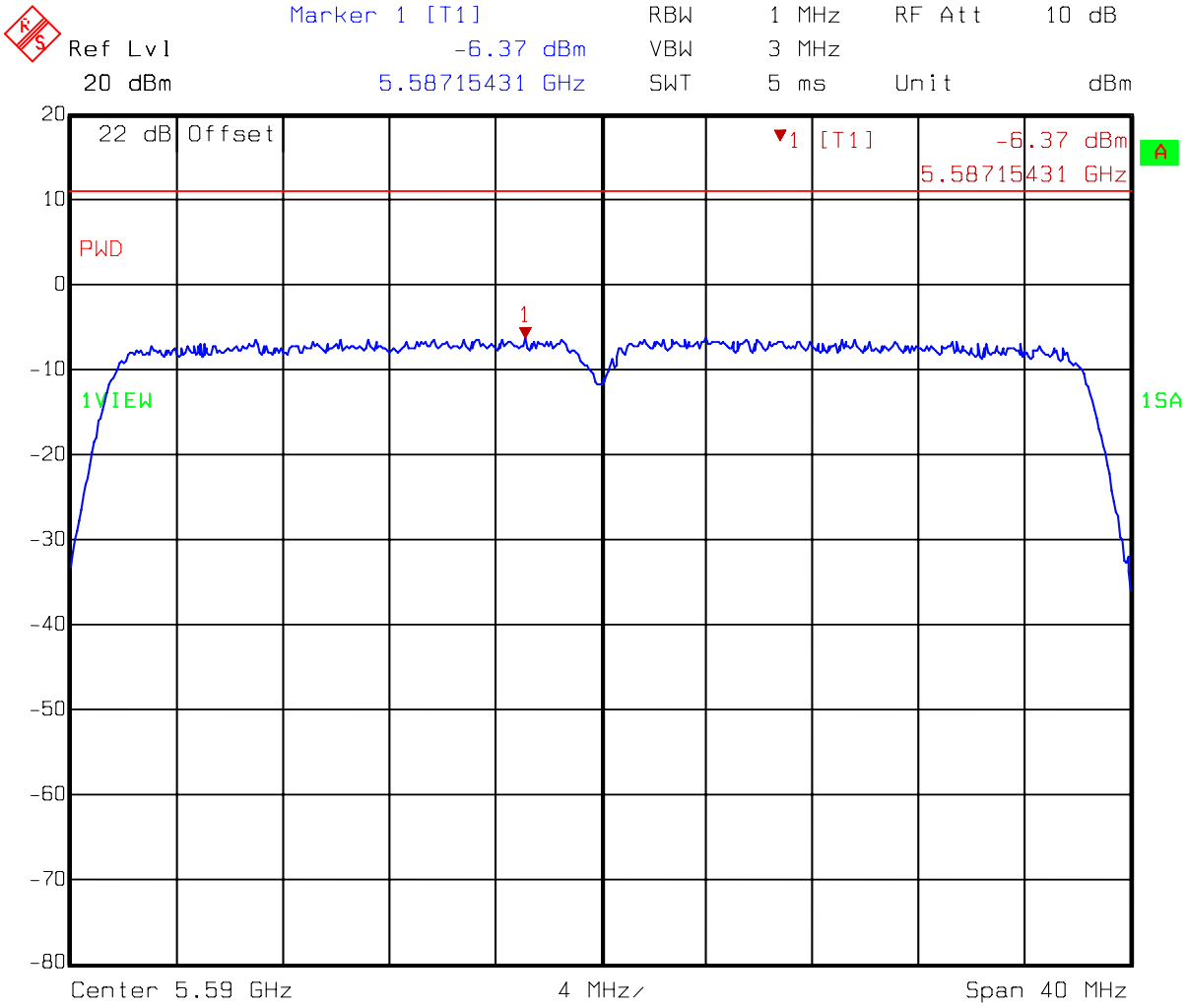
Title: Power Density
Comment A: CH 62 at 802.11a mode
Date: 13.NOV.2007 12:06:53

Dual Tx
DACA: 802.11n 40MHz CH102



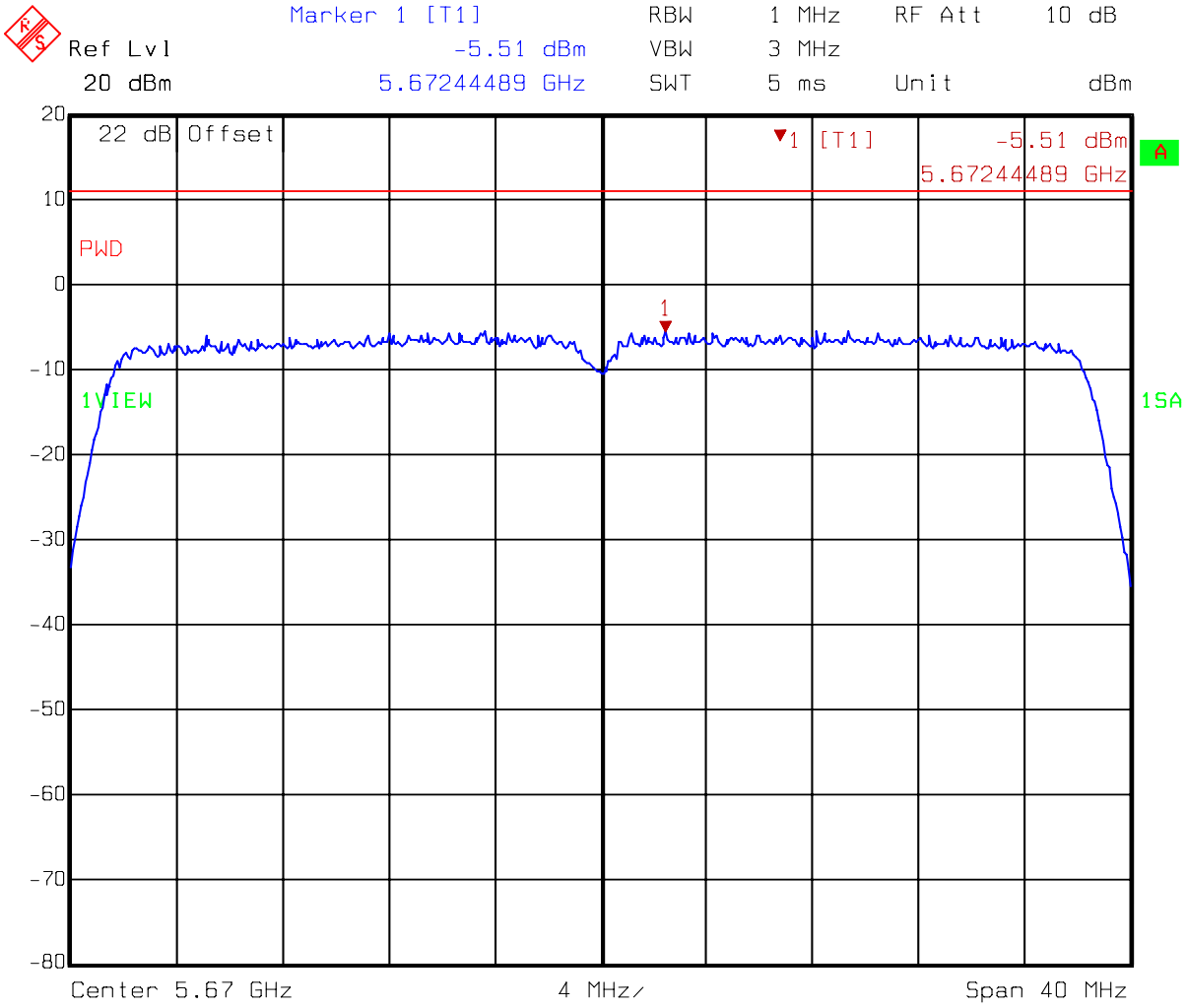
Title: Power Density
Comment A: CH 102 at 802.11a mode
Date: 13.NOV.2007 13:18:05

Dual Tx
DACA: 802.11n 40MHz CH118



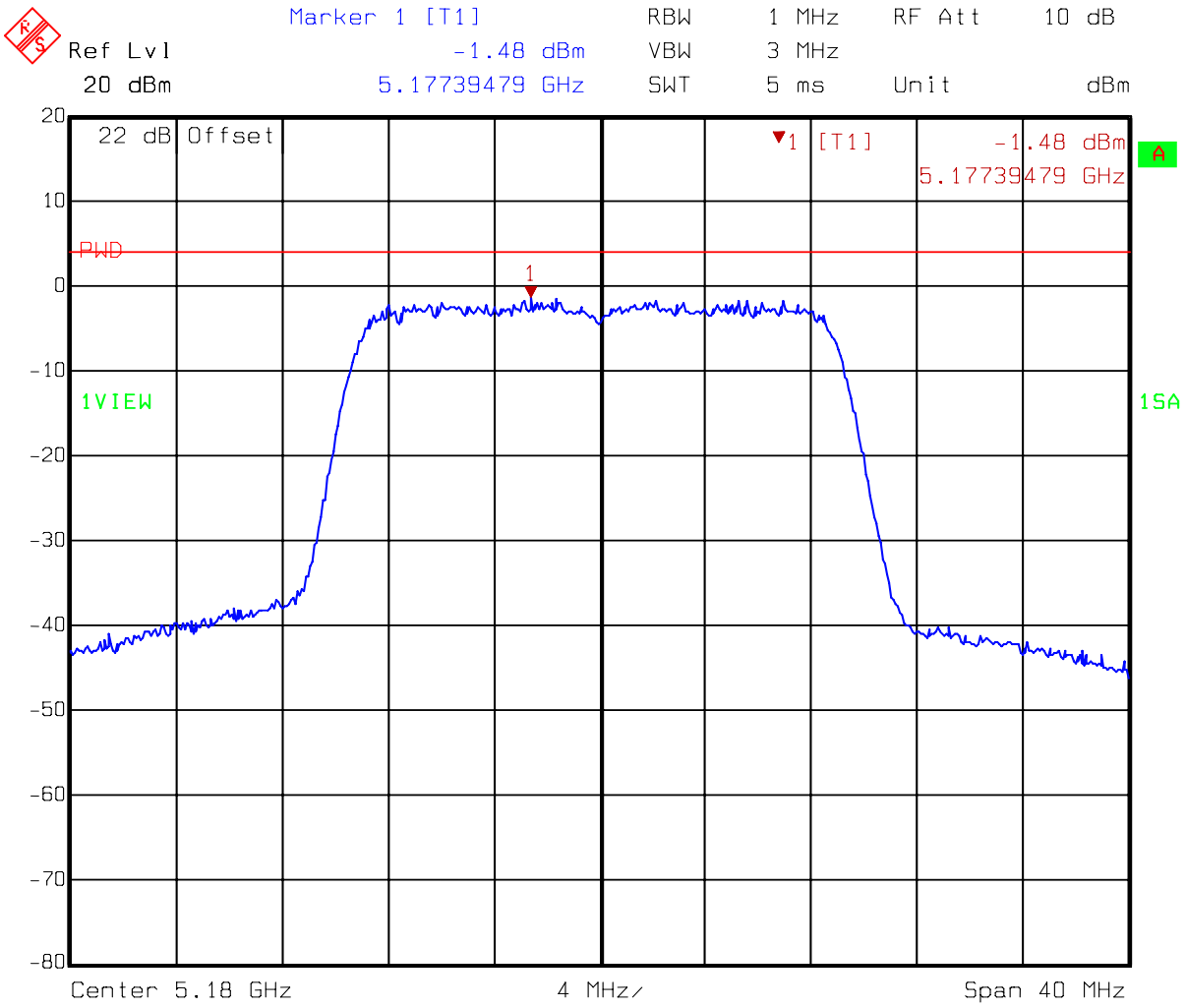
Title: Power Density
Comment A: CH 118 at 802.11a mode
Date: 13.NOV.2007 13:21:25

Dual Tx
DACA: 802.11n 40MHz CH134



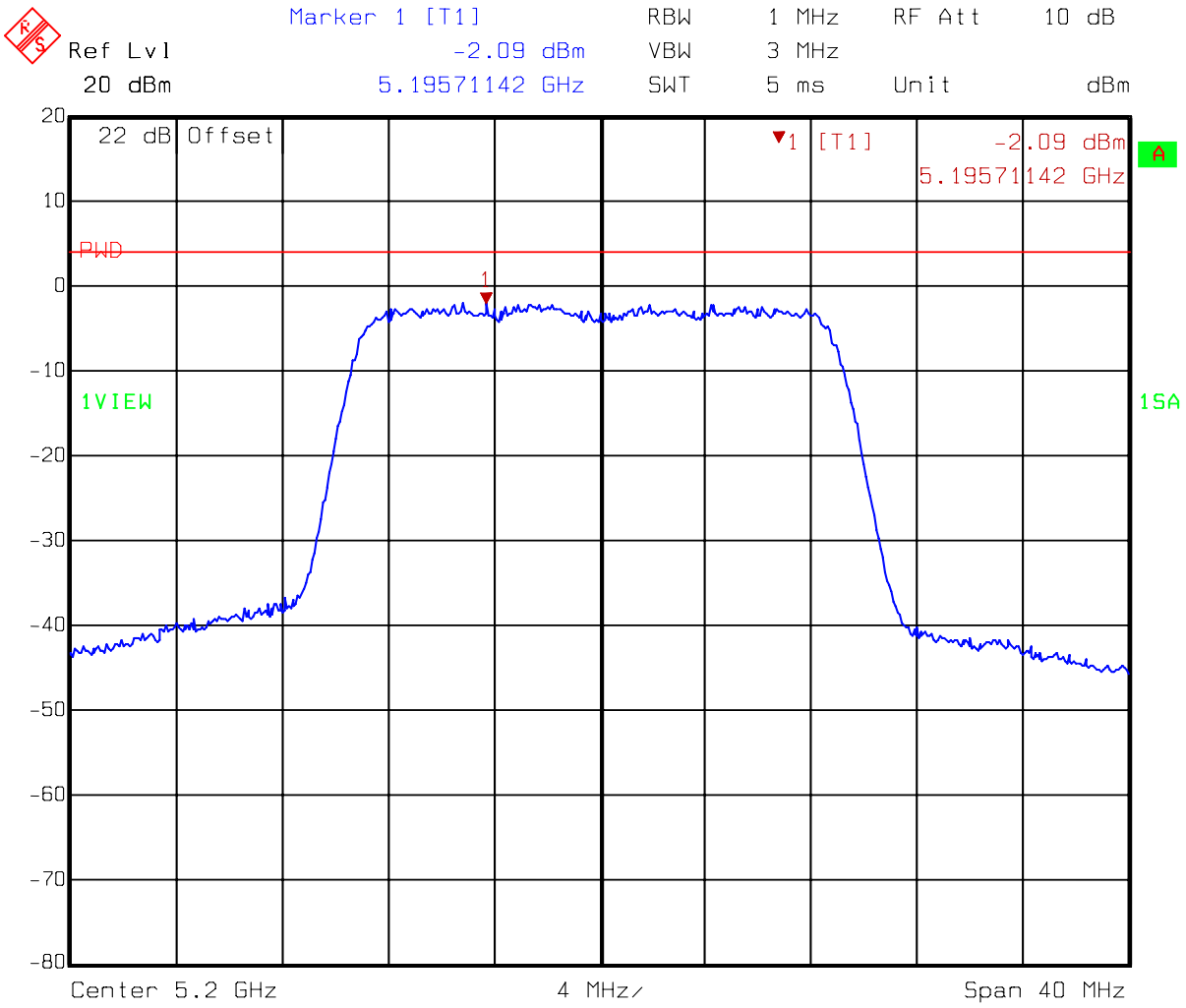
Title: Power Density
Comment A: CH 134 at 802.11a mode
Date: 13.NOV.2007 13:31:36

Dual Tx
DACB: 802.11n 20MHz CH36



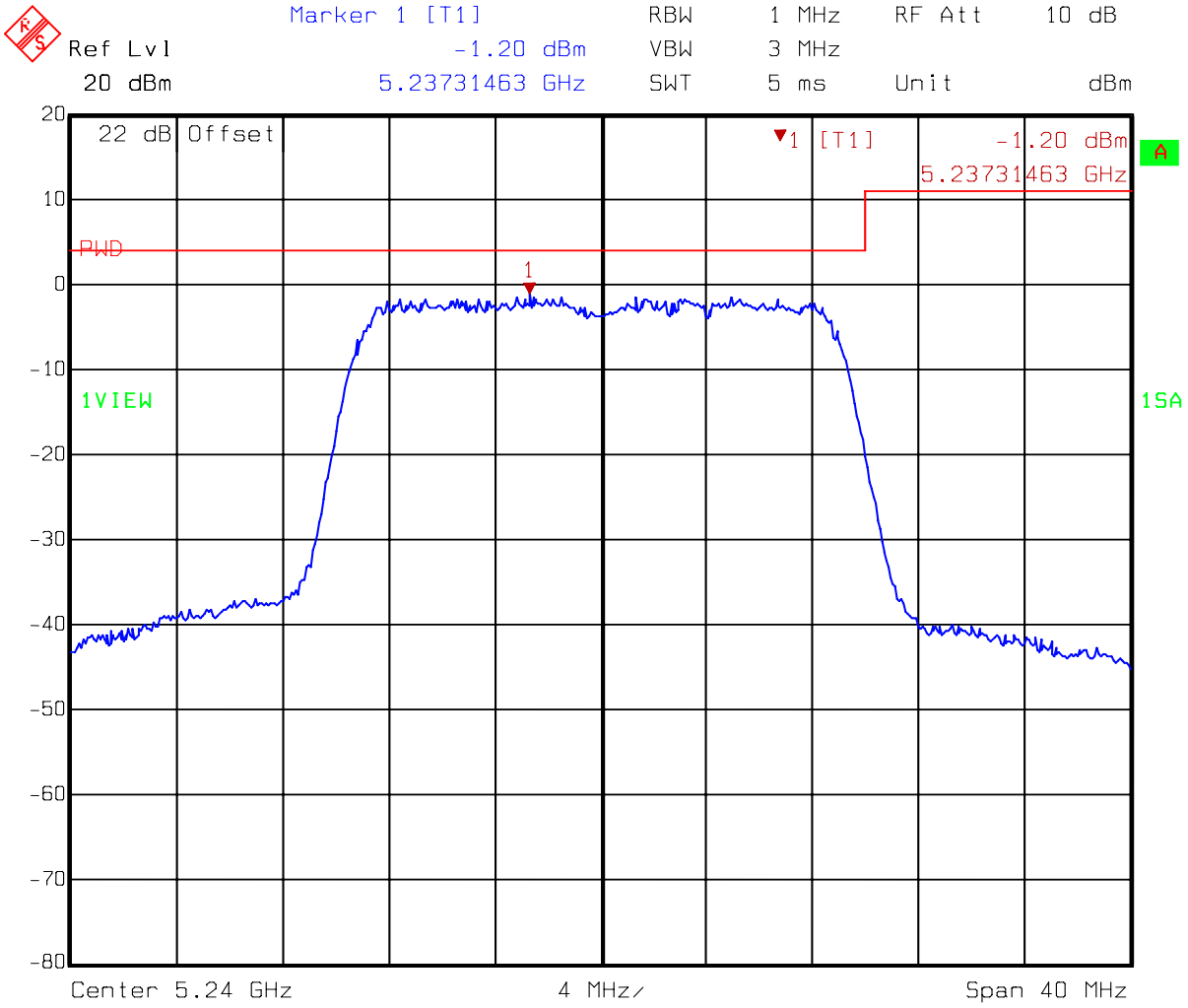
Title: Power Density
Comment A: CH 36 at 802.11a mode
Date: 13.NOV.2007 13:41:42

Dual Tx
DACB: 802.11n 20MHz CH40



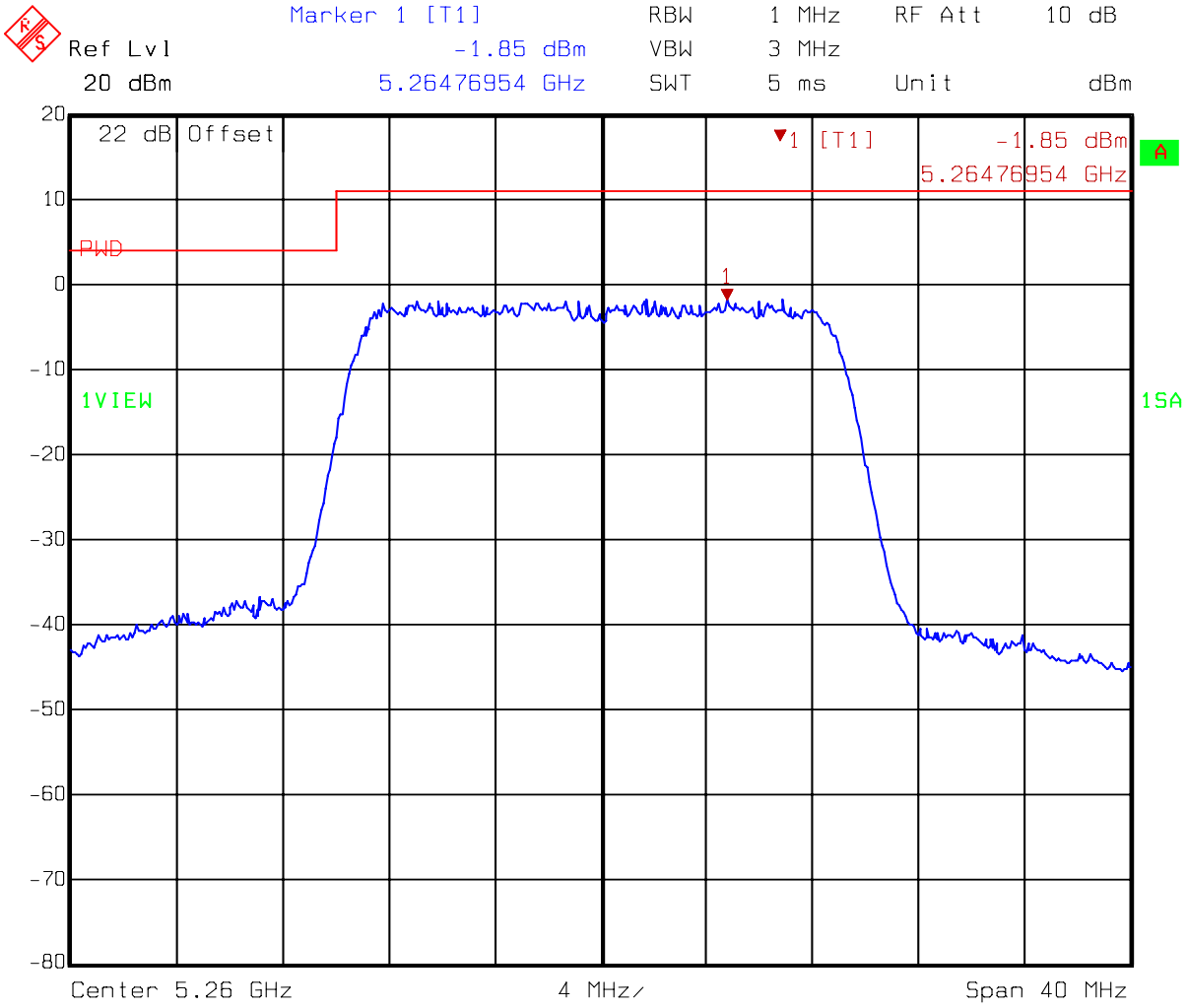
Title: Power Density
Comment A: CH 40 at 802.11a mode
Date: 13.NOV.2007 13:44:47

Dual Tx
DACB: 802.11n 20MHz CH48



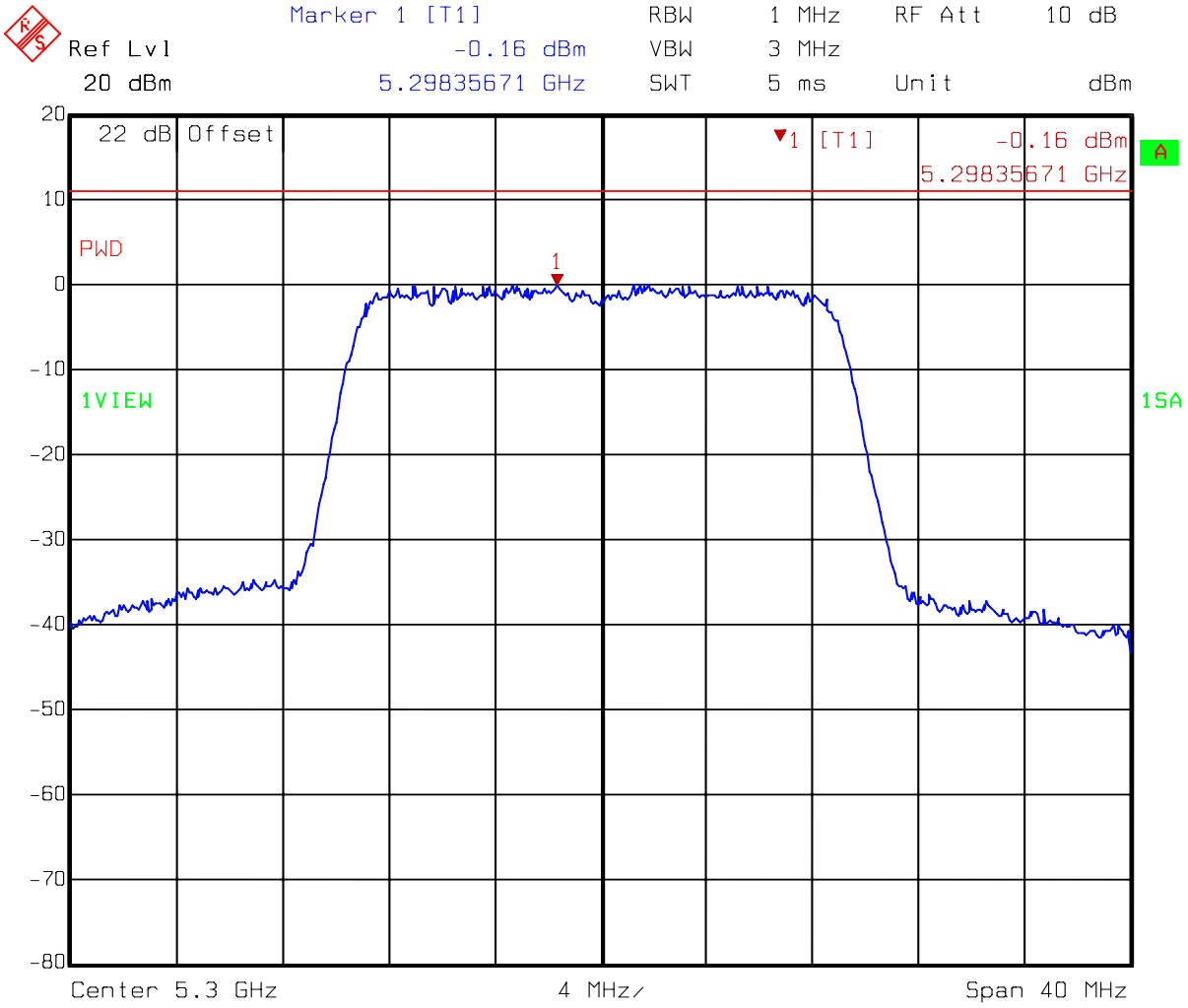
Title: Power Density
Comment A: CH 48 at 802.11a mode
Date: 13.NOV.2007 13:57:07

Dual Tx
DACB: 802.11n 20MHz CH52



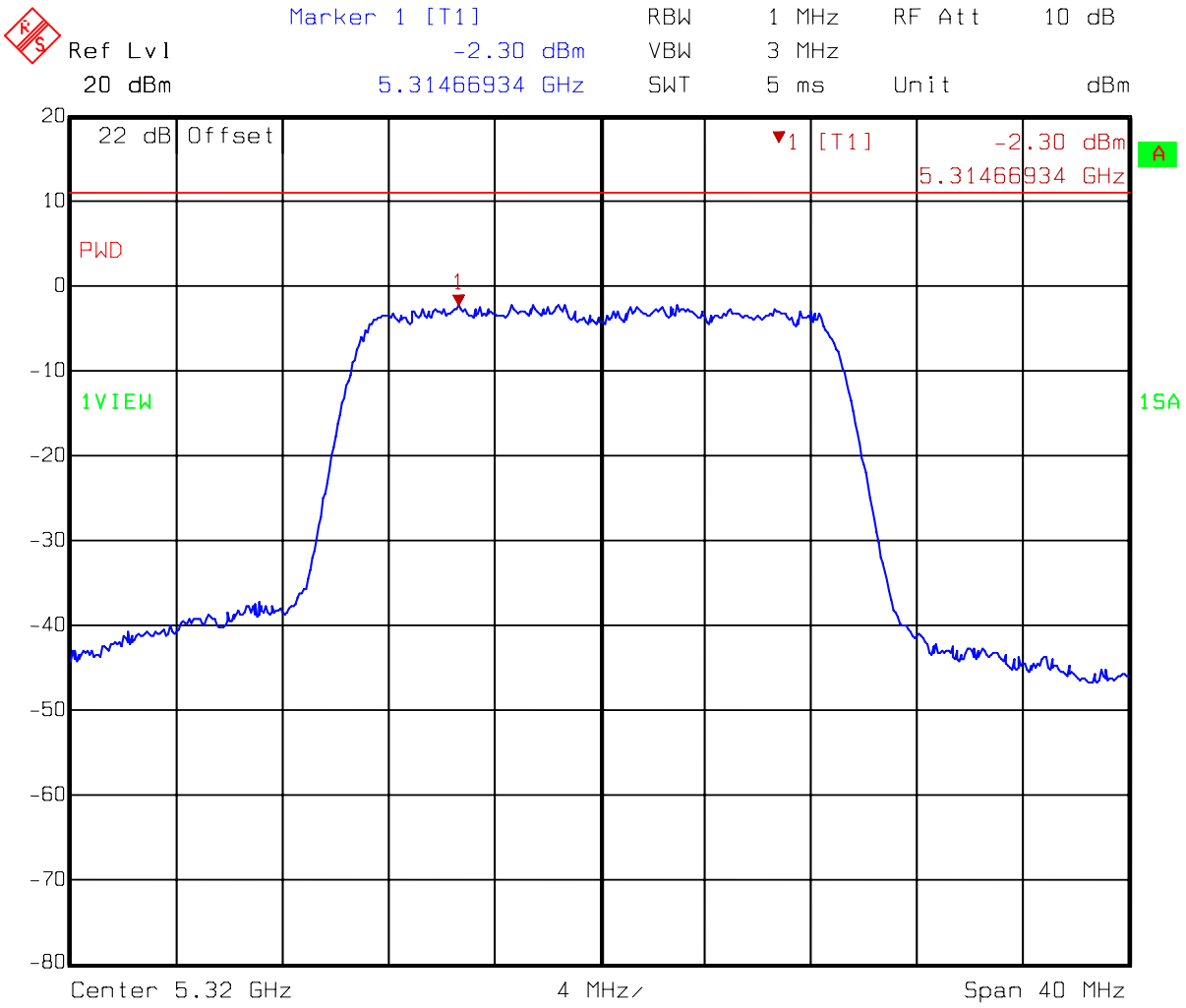
Title: Power Density
Comment A: CH 52 at 802.11a mode
Date: 13.NOV.2007 14:00:58

Dual Tx
DACB: 802.11n 20MHz CH60



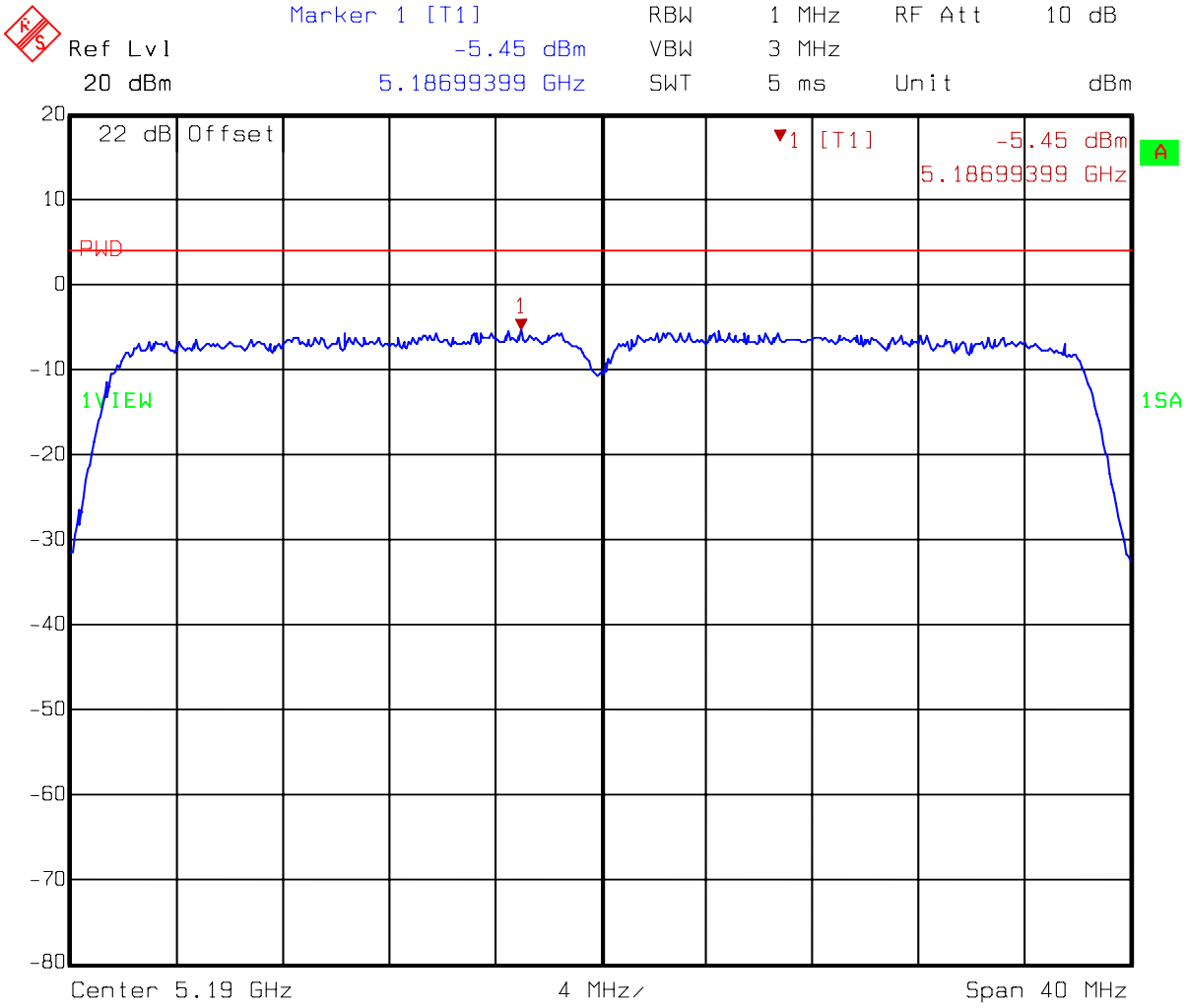
Title: Power Density
Comment A: CH 60 at 802.11a mode
Date: 13.NOV.2007 14:34:06

Dual Tx
DACB: 802.11n 20MHz CH64



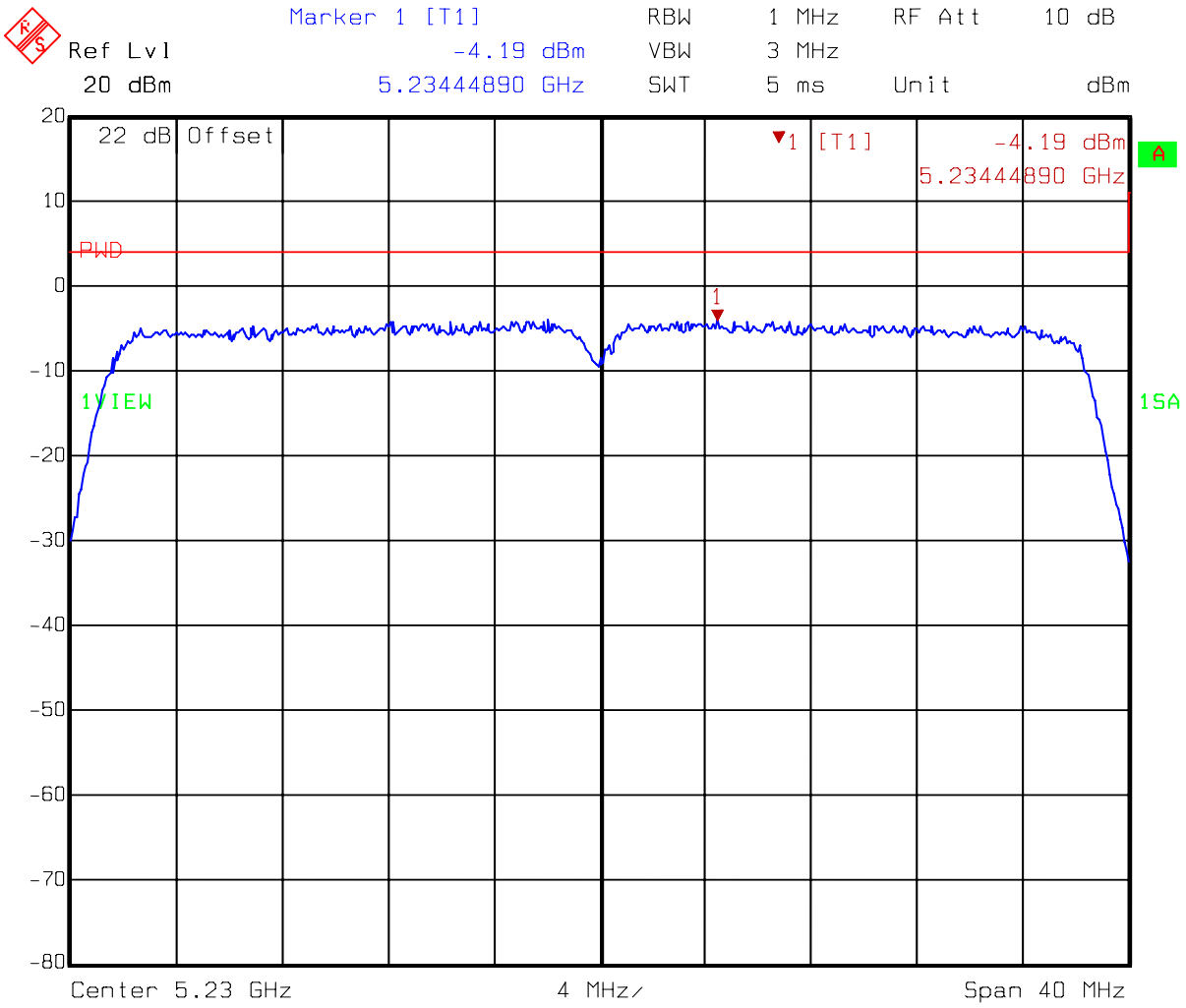
Title: Power Density
Comment A: CH 64 at 802.11a mode
Date: 13.NOV.2007 14:37:08

Dual Tx
DACB: 802.11n 40MHz CH38



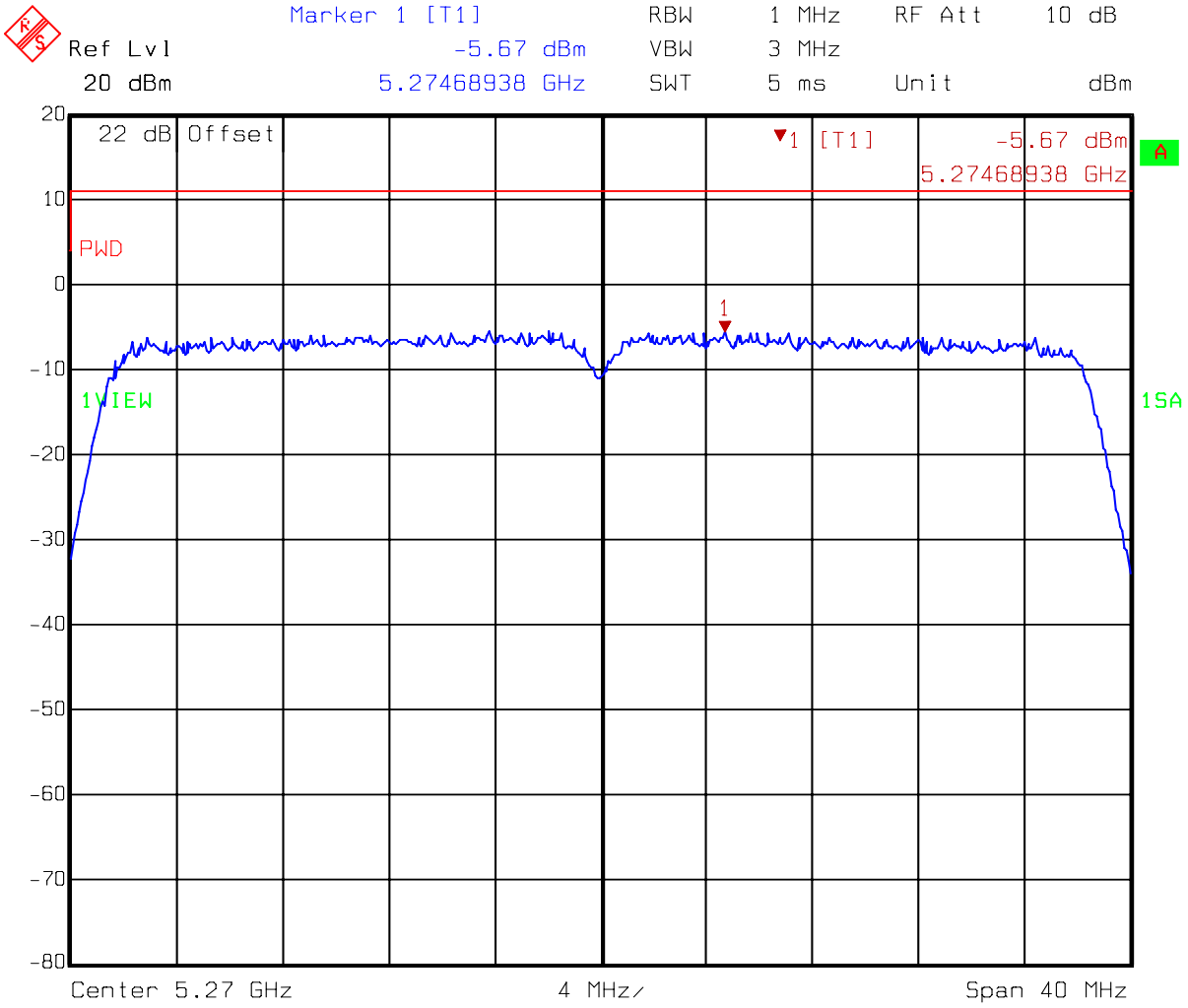
Title: Power Density
Comment A: CH 38 at 802.11a mode
Date: 13.NOV.2007 11:43:29

Dual Tx
DACB: 802.11n 40MHz CH46



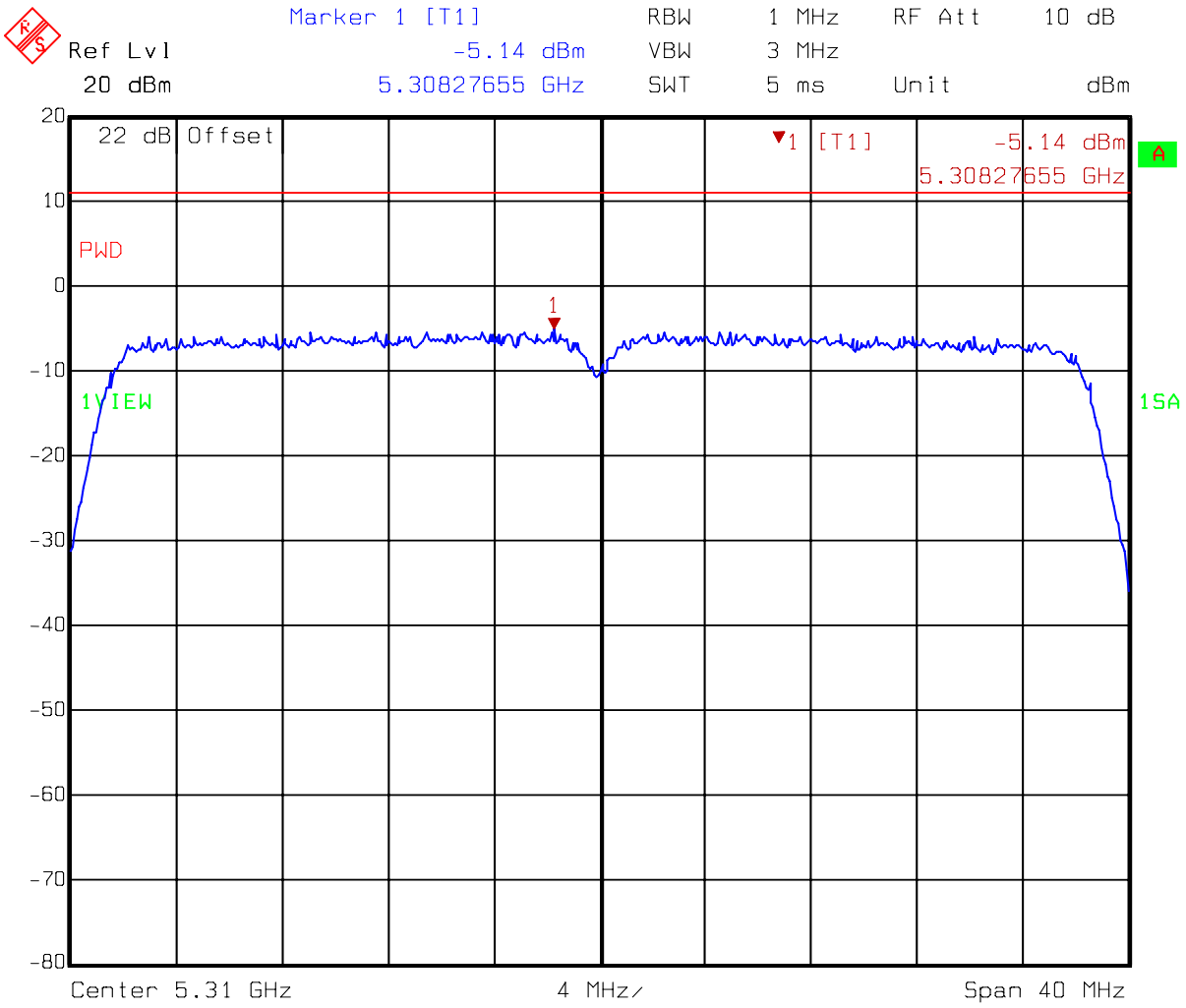
Title: Power Density
Comment A: CH 46 at 802.11a mode
Date: 13.NOV.2007 11:54:50

Dual Tx
DACB: 802.11n 40MHz CH54



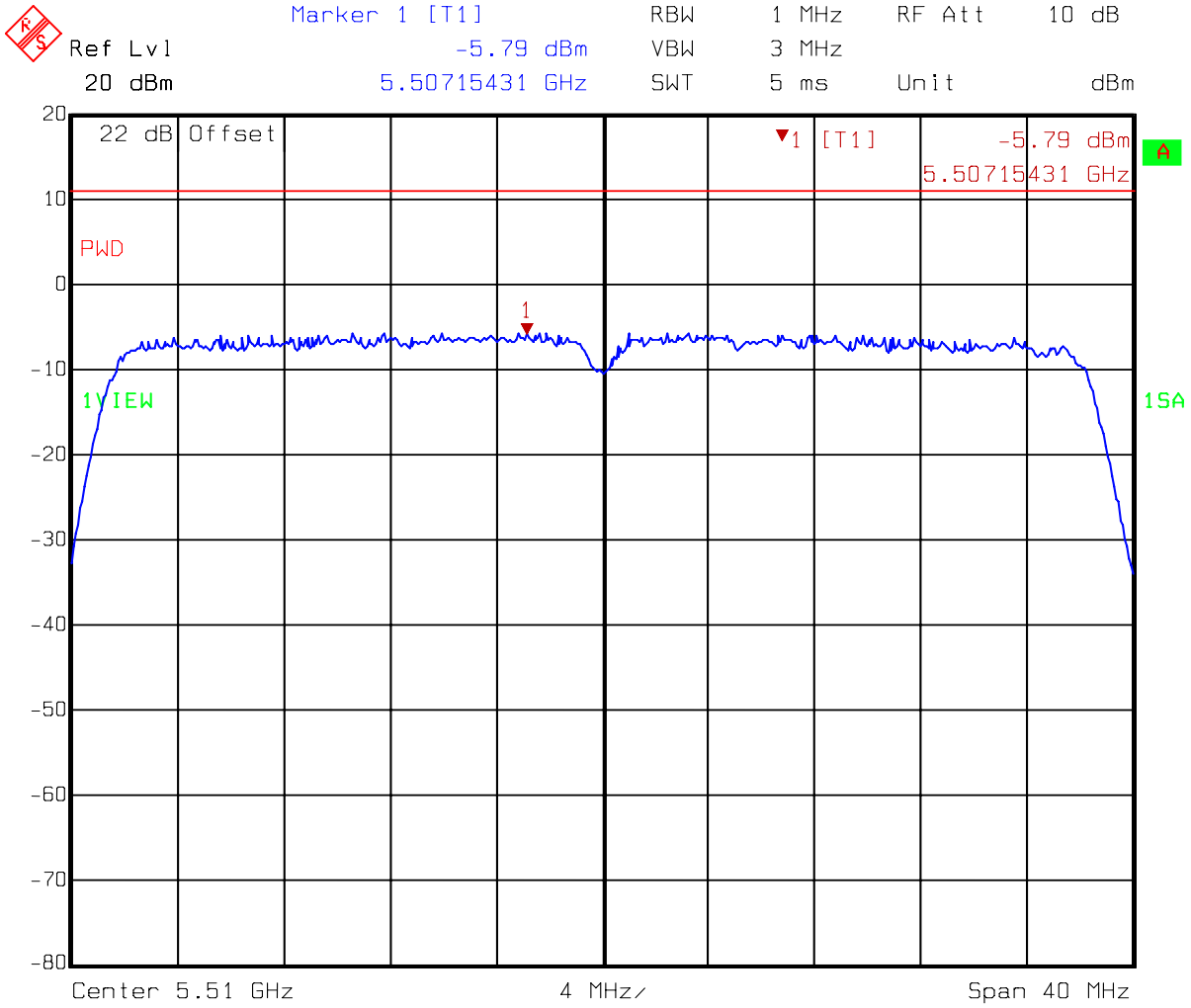
Title: Power Density
Comment A: CH 54 at 802.11a mode
Date: 13.NOV.2007 11:59:35

Dual Tx
DACB: 802.11n 40MHz CH62



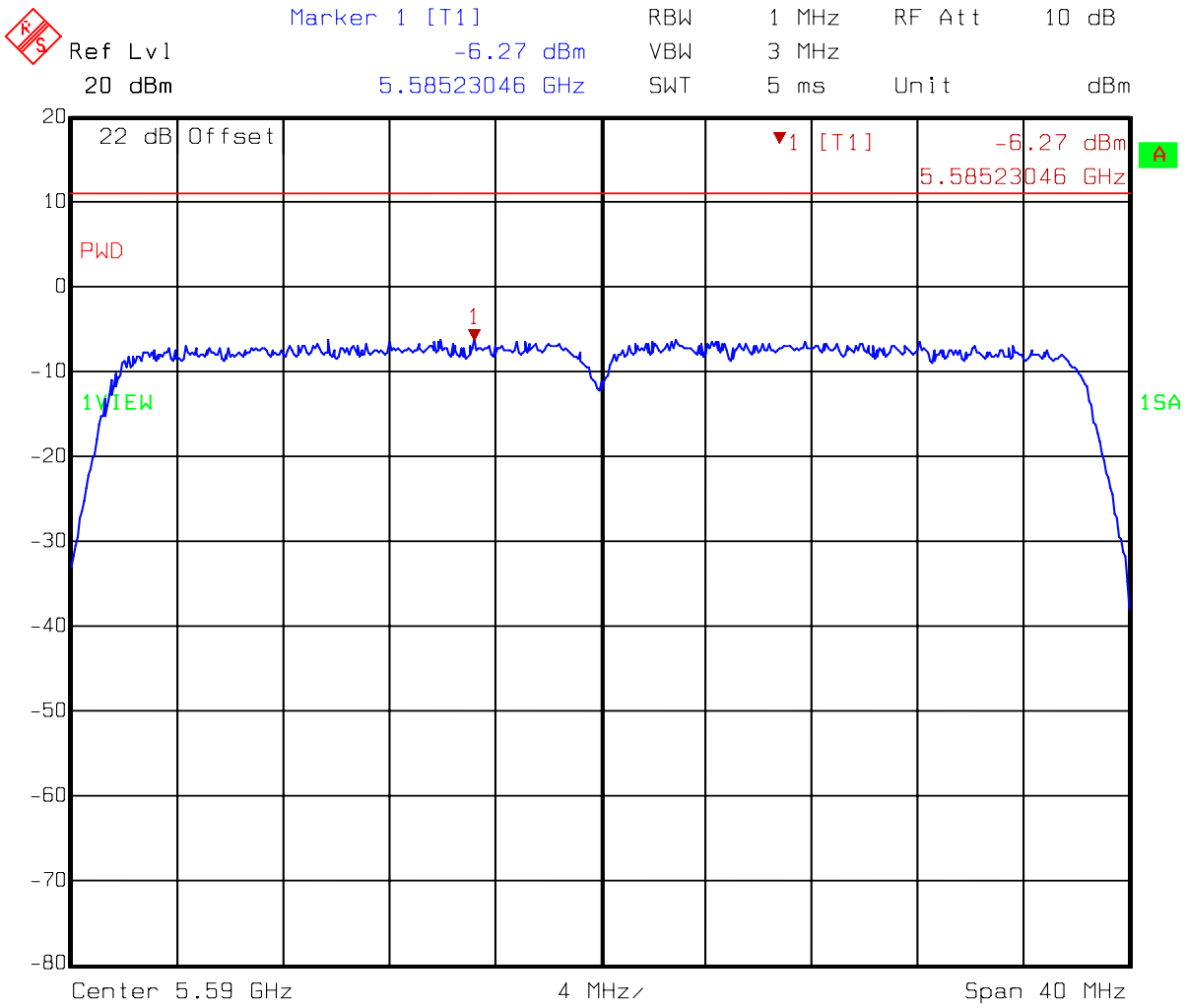
Title: Power Density
Comment A: CH 62 at 802.11a mode
Date: 13.NOV.2007 12:10:23

Dual Tx
DACB: 802.11n 40MHz CH102



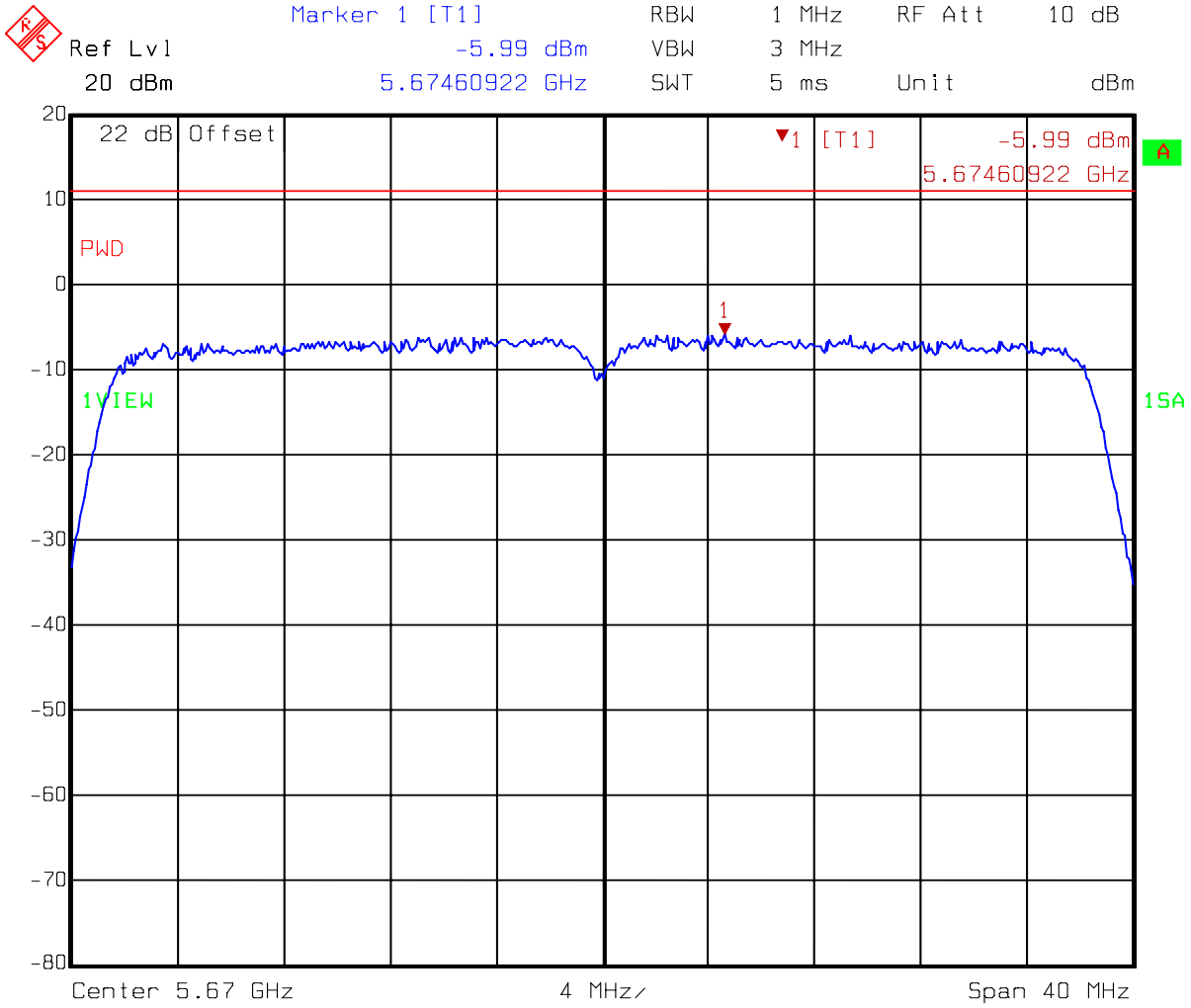
Title: Power Density
Comment A: CH 102 at 802.11a mode
Date: 13.NOV.2007 13:13:50

Dual Tx
DACB: 802.11n 40MHz CH118



Title: Power Density
Comment A: CH 118 at 802.11a mode
Date: 13.NOV.2007 13:24:27

Dual Tx
DACB: 802.11n 40MHz CH134



Title: Power Density
Comment A: CH 134 at 802.11a mode
Date: 13.NOV.2007 13:28:12

5. Peak excursion to average ratio test (FCC 15.407)

5.1 Operating environment

Temperature:	25	℃
Relative Humidity:	50	%
Atmospheric Pressure:	1023	hPa

5.2 Test setup & procedure

The power spectrum density per FCC §15.407(a)(6) was measured from the antenna port of the EUT. Using a 50ohm spectrum analyzer with the RBW=VBW=10MHz for peak measurement and RBW=1MHz, VBW=30kHz for average measurement. Peak excursion to average ratio was read directly.

Limit

Operating Frequency (MHz)	Peak excursion to average ratio limit
5150~5250	<13dB
5250~5350, 5470~5725	<13dB
5725~5825	<13dB

5.3 Measured data of Peak excursion to average ratio test results

Single Tx

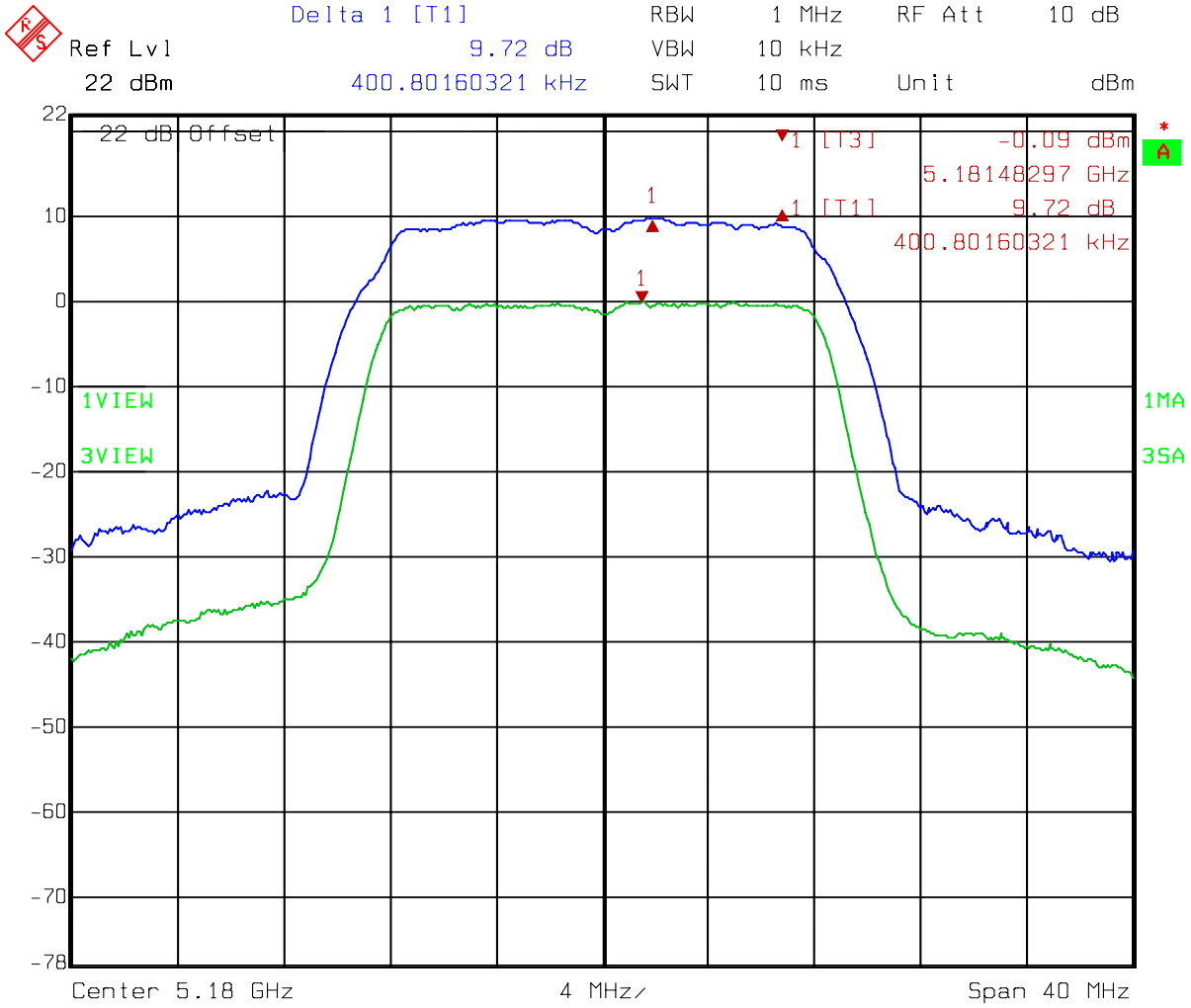
Mode	Channel	Frequency (MHz)	Data rate Mbps	PPSD (dBm)		Limit (dBm)	Reault
				DACA	DACB		
11a	36	5180	6	9.72	9.67	13	PASS
	40	5200		9.66	9.73	13	PASS
	48	5240		9.61	9.68	13	PASS
	52	5260		9.63	9.69	13	PASS
	60	5300		9.7	9.74	13	PASS
	64	5320		9.75	9.69	13	PASS

Dual Tx

Mode	Channel	Frequency (MHz)	Data rate Mbps	PPSD (dBm)		Limit (dBm)
				DACA	DACB	
11n(20)	36	5180	6.5	9.77	11.06	13
	40	5200		9.58	11.07	13
	48	5240		9.7	11.02	13
	52	5260		9.73	10.86	13
	60	5300		9.62	11.27	13
	64	5320		9.75	11.03	13
11n(40)	38	5190	13	9.94	10.65	13
	46	5230		10.5	10.46	13
	54	5270		10.3	10.6	13
	62	5310		10.28	10.61	13
	102	5510		10.26	10.6	13
	118	5590		10.08	10.69	13
	134	5670		10.36	10.59	13

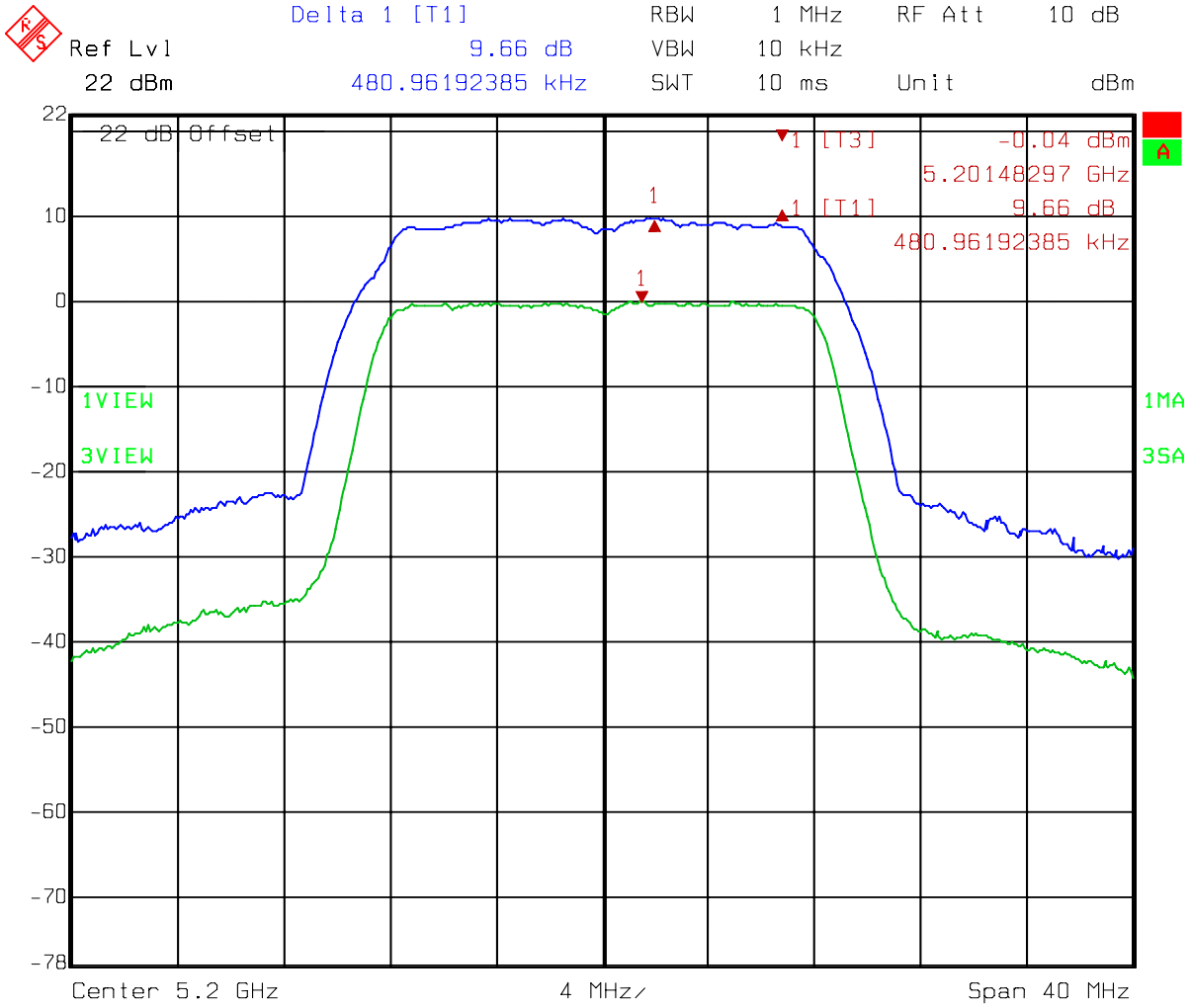
Please see the plot below.

Single Tx
DACA: 802.11a CH36



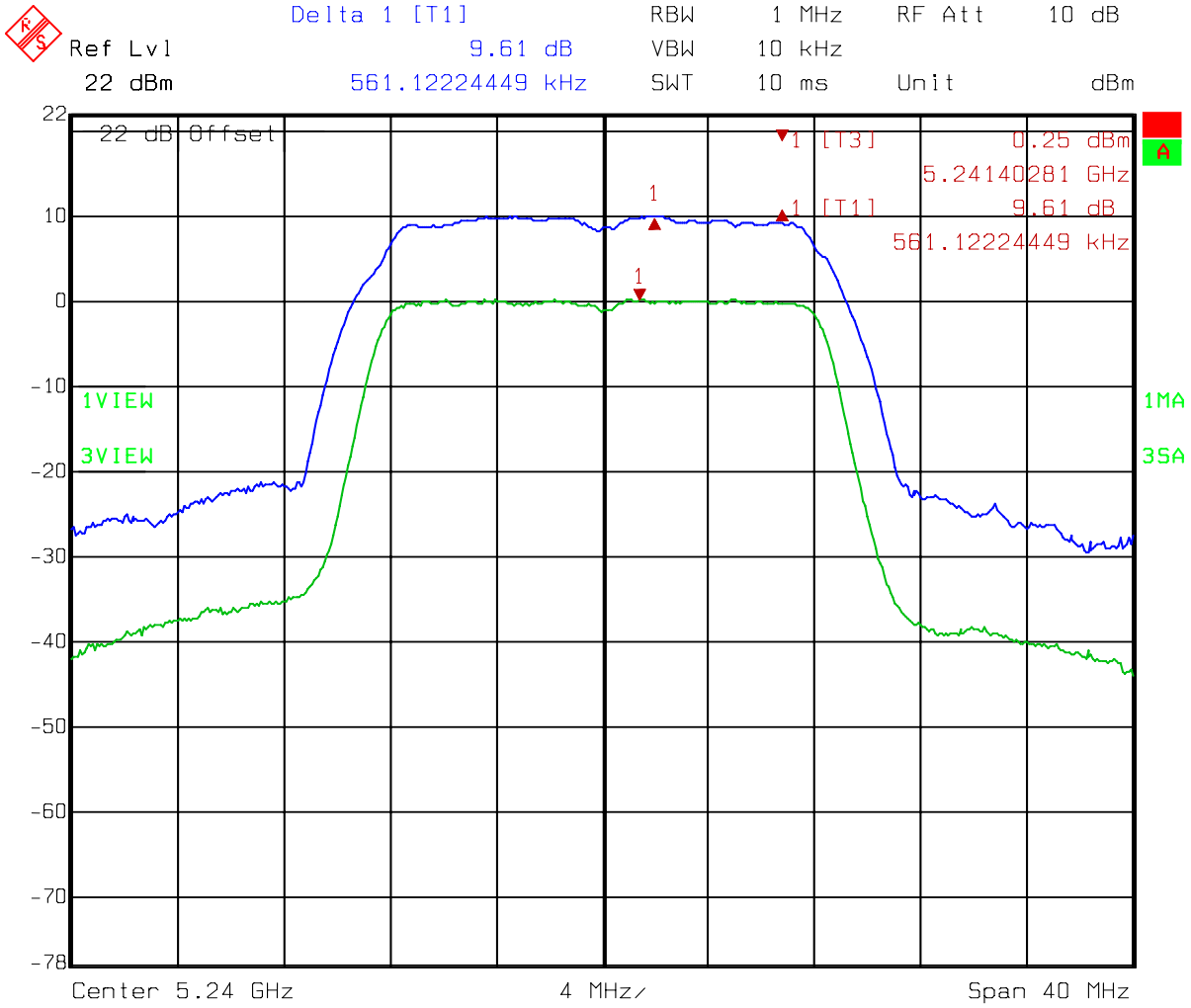
Title: PK Excursion AV
Comment A: CH 36 at 802.11a mode
Date: 13.NOV.2007 15:08:38

Single Tx
DACA: 802.11a CH40



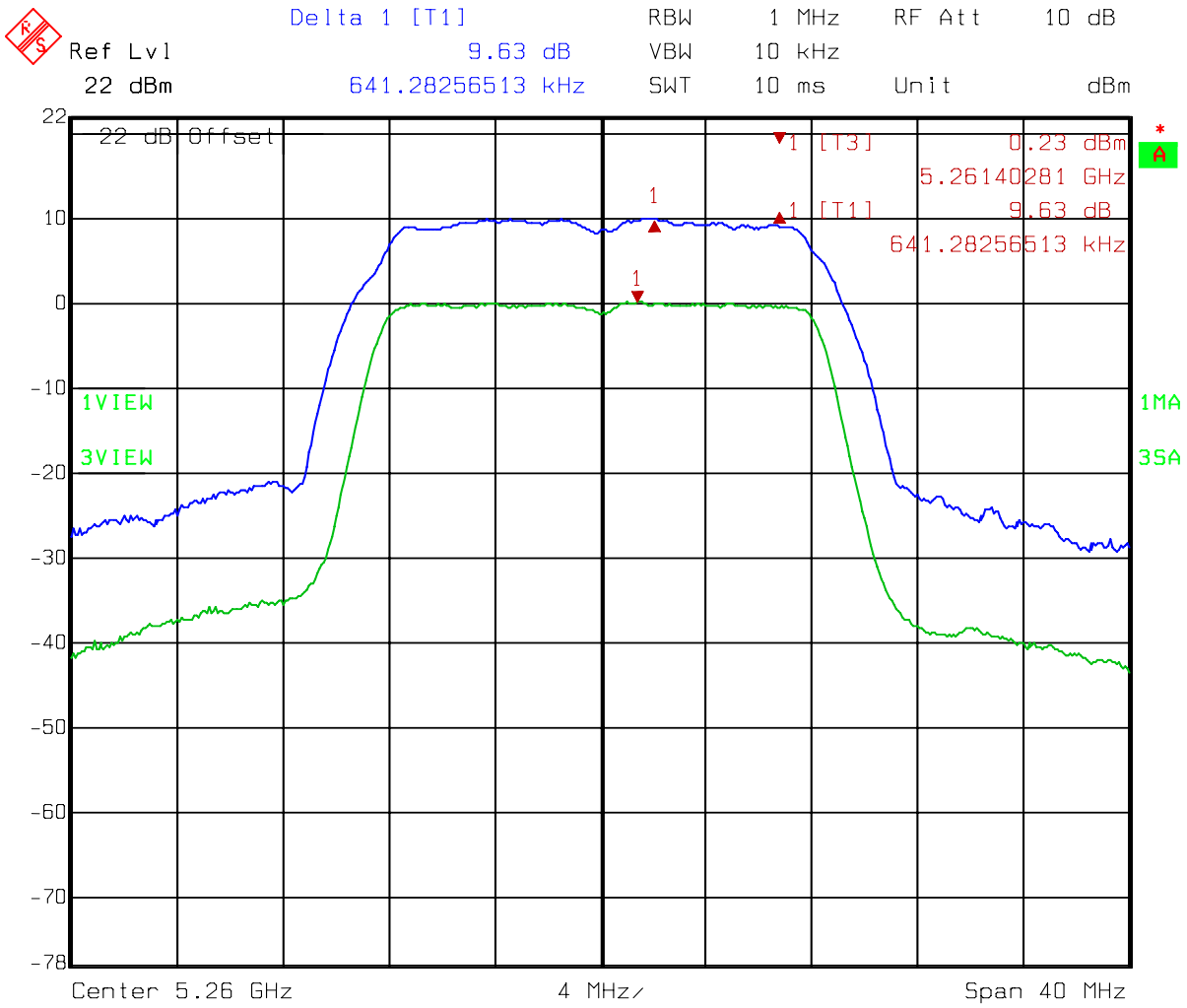
Title: PK Excursion AV
Comment A: CH 40 at 802.11a mode
Date: 13.NOV.2007 15:12:54

Single Tx
DACA: 802.11a CH48



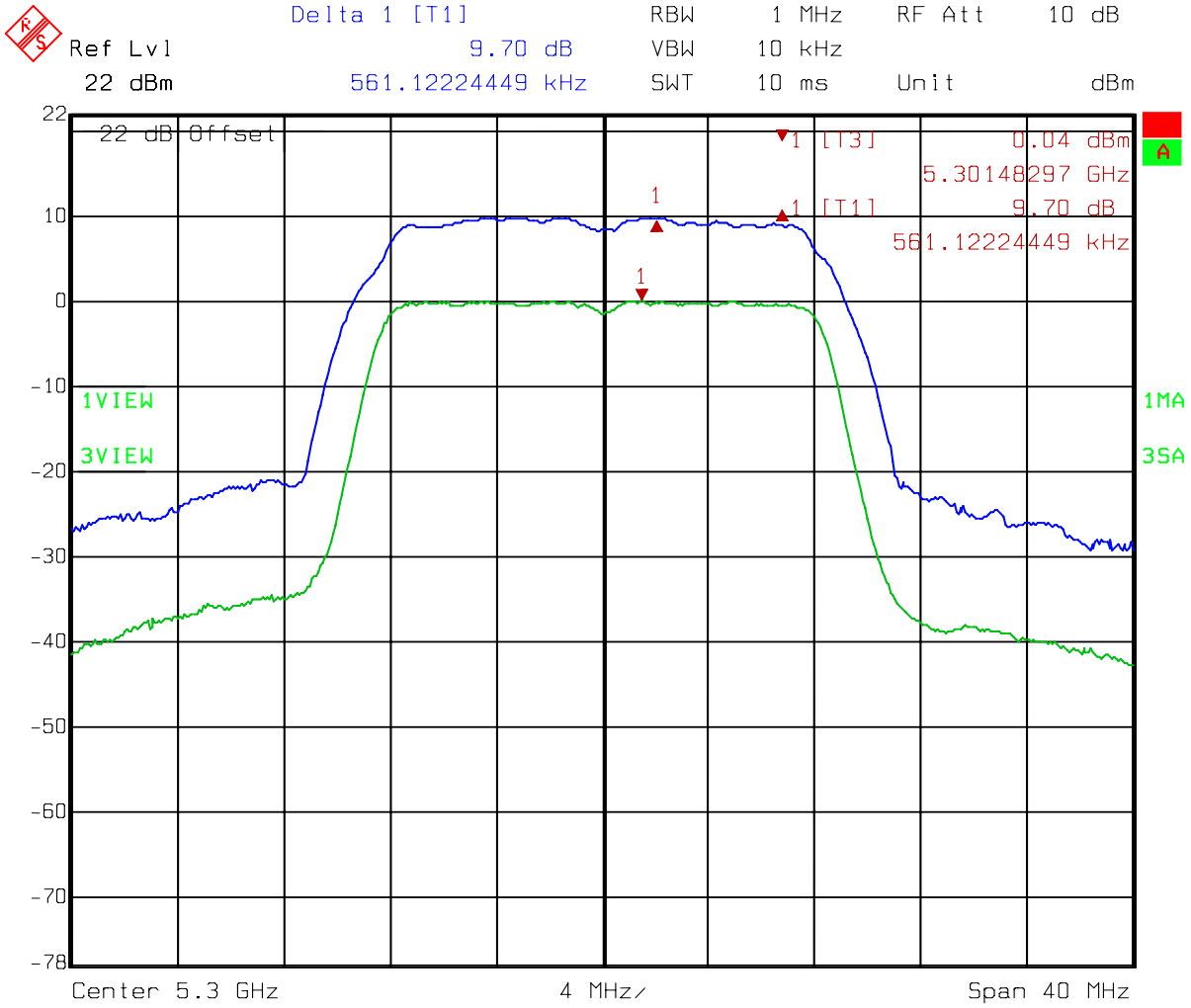
Title: PK Excursion AV
Comment A: CH 48 at 802.11a mode
Date: 13.NOV.2007 15:16:27

Single Tx
DACA: 802.11a CH52



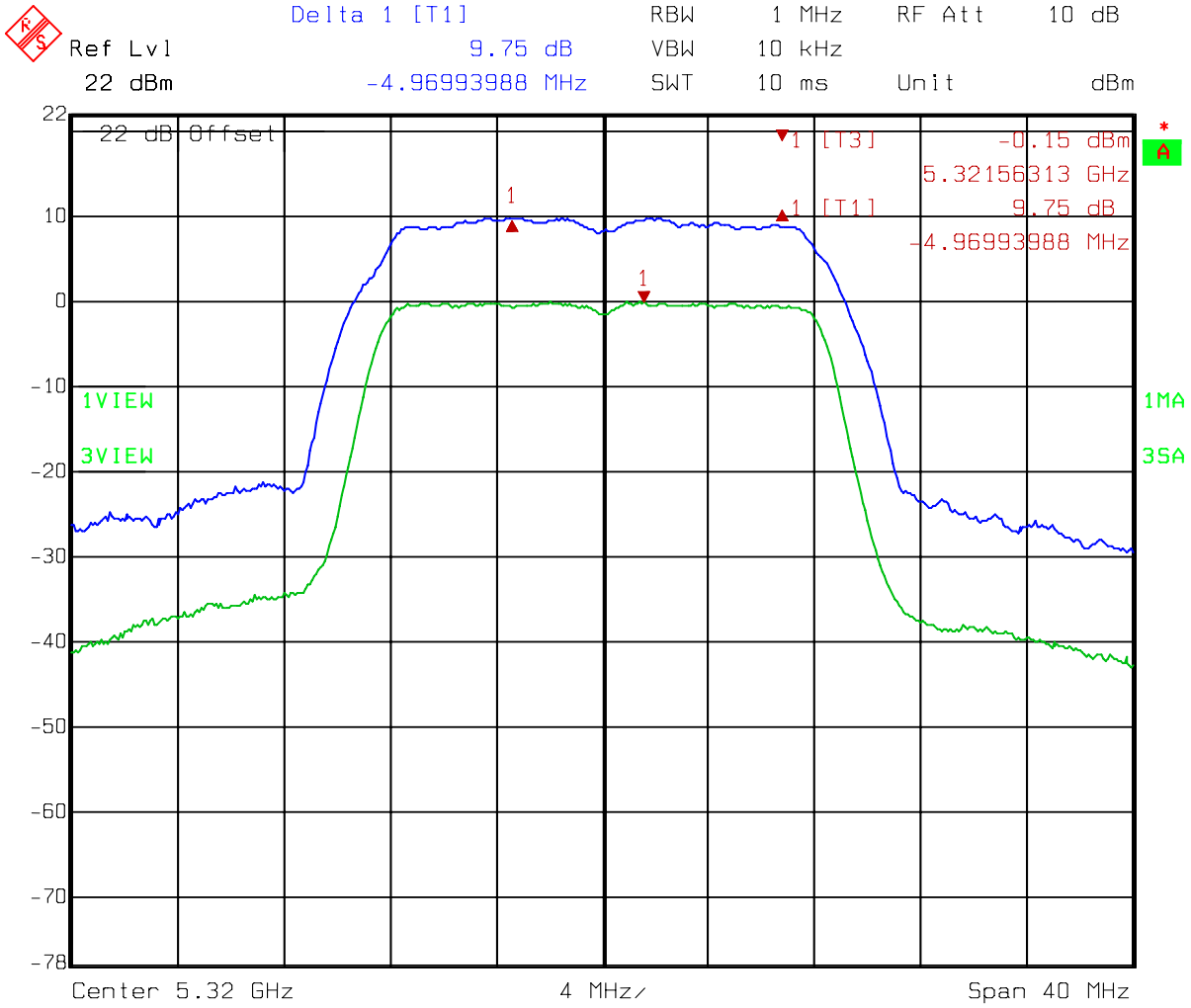
Title: PK Excursion AV
Comment A: CH 52 at 802.11a mode
Date: 13.NOV.2007 15:21:31

Single Tx
DACA: 802.11a CH60



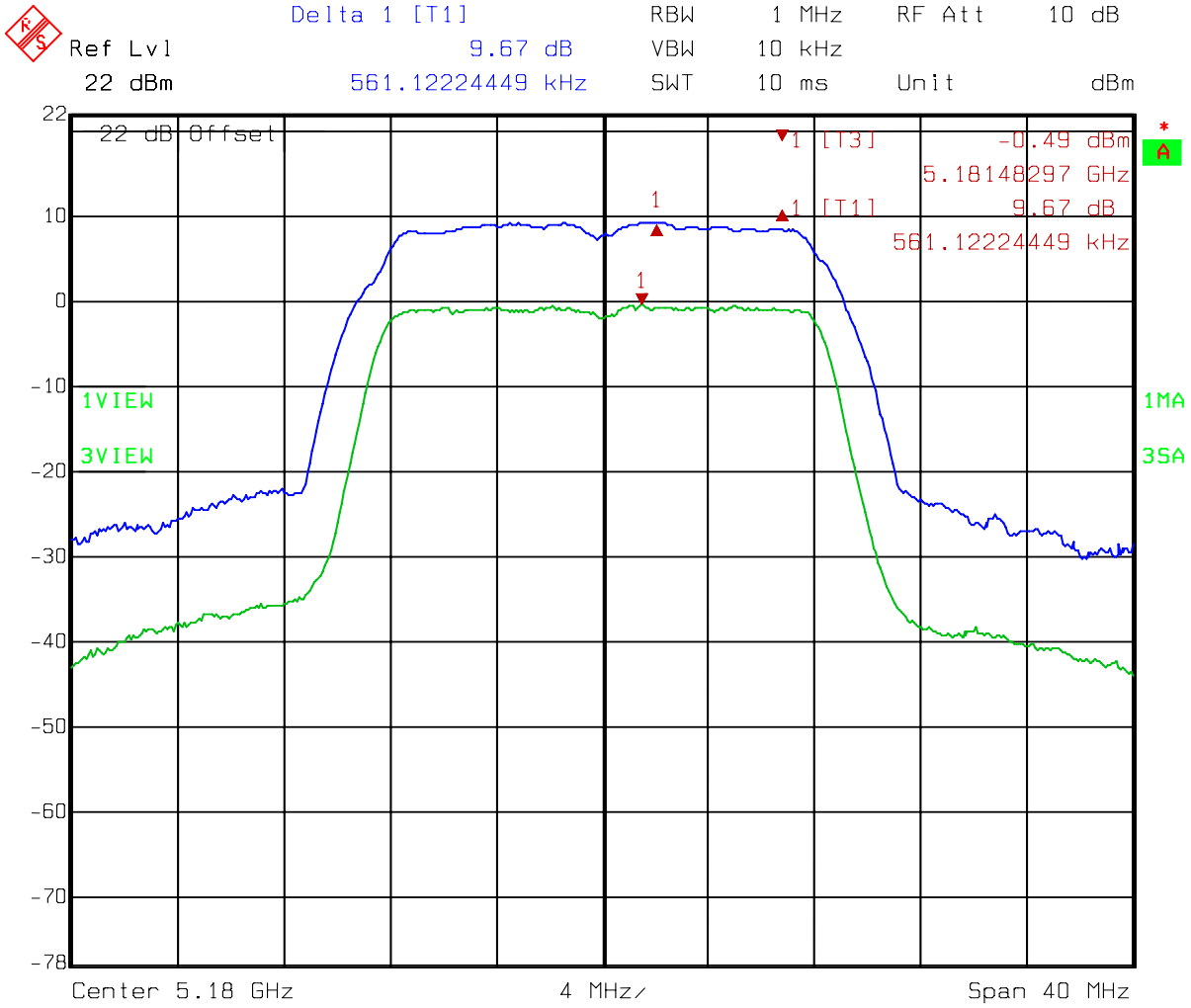
Title: PK Excursion AV
Comment A: CH 60 at 802.11a mode
Date: 13.NOV.2007 15:24:49

Single Tx
DACA: 802.11a CH64



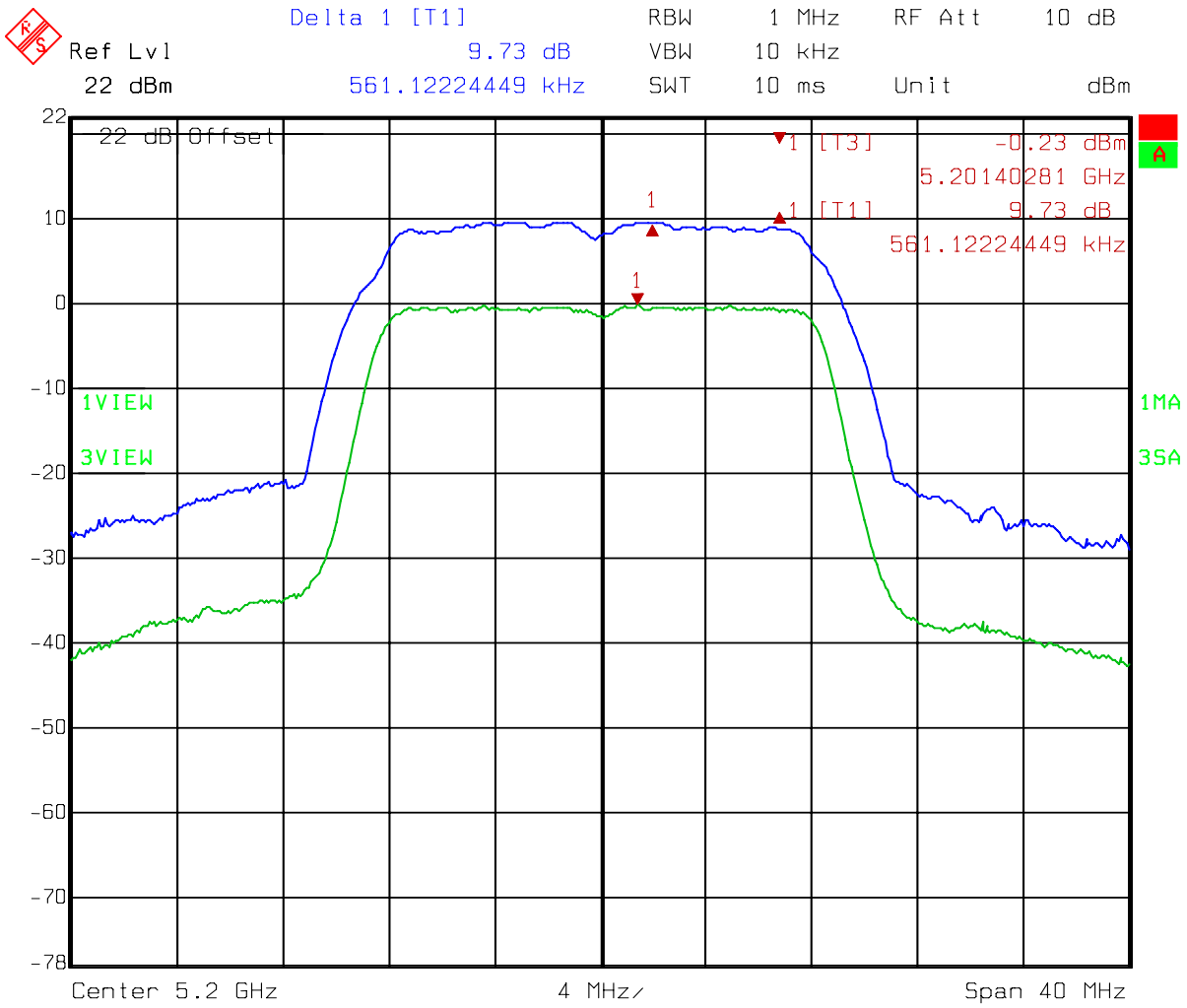
Title: PK Excursion AV
Comment A: CH 64 at 802.11a mode
Date: 13.NOV.2007 15:29:23

Single Tx
DACB: 802.11a CH36



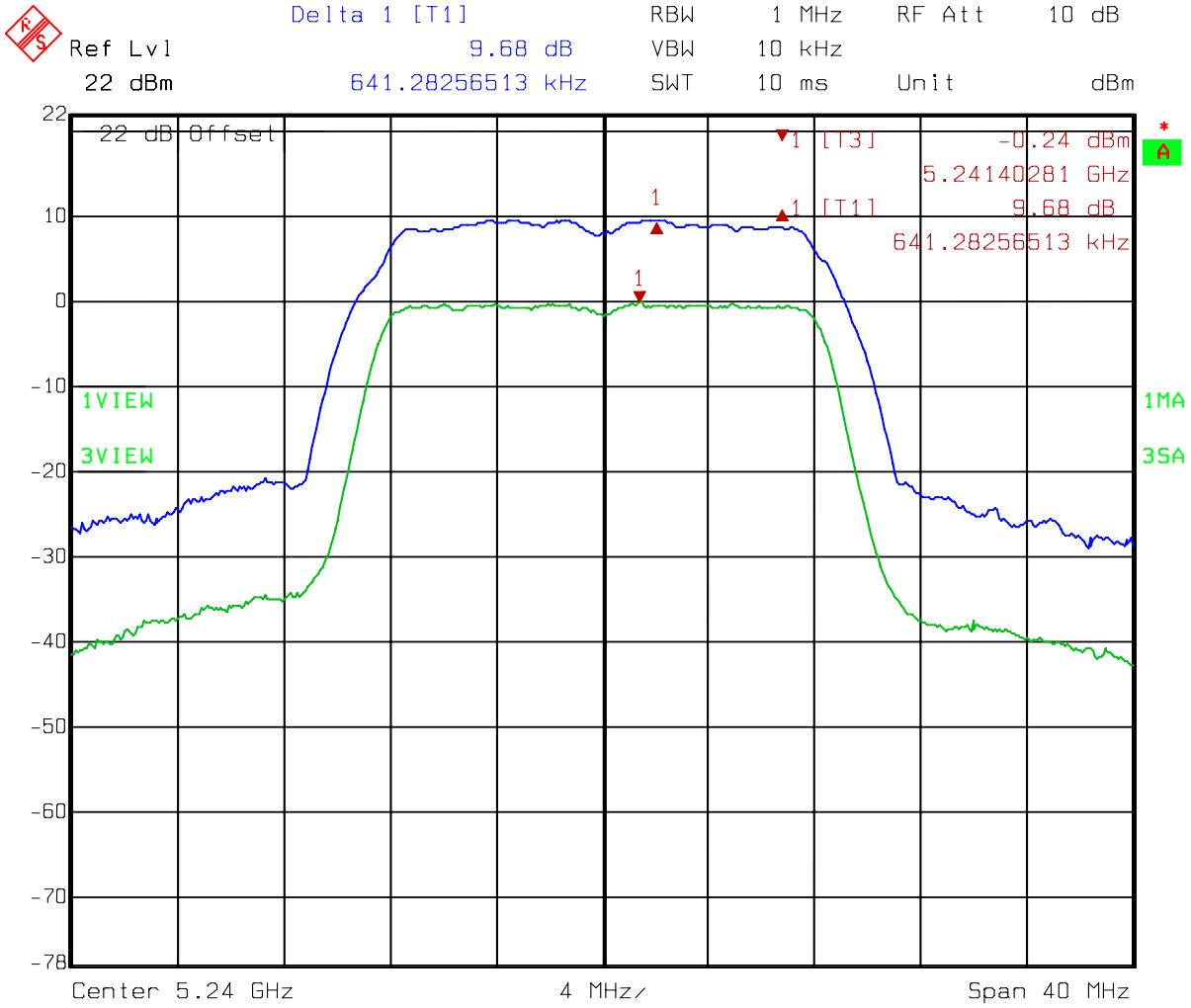
Title: PK Excursion AV
Comment A: CH 36 at 802.11a mode
Date: 13.NOV.2007 14:44:42

Single Tx
DACB: 802.11a CH40



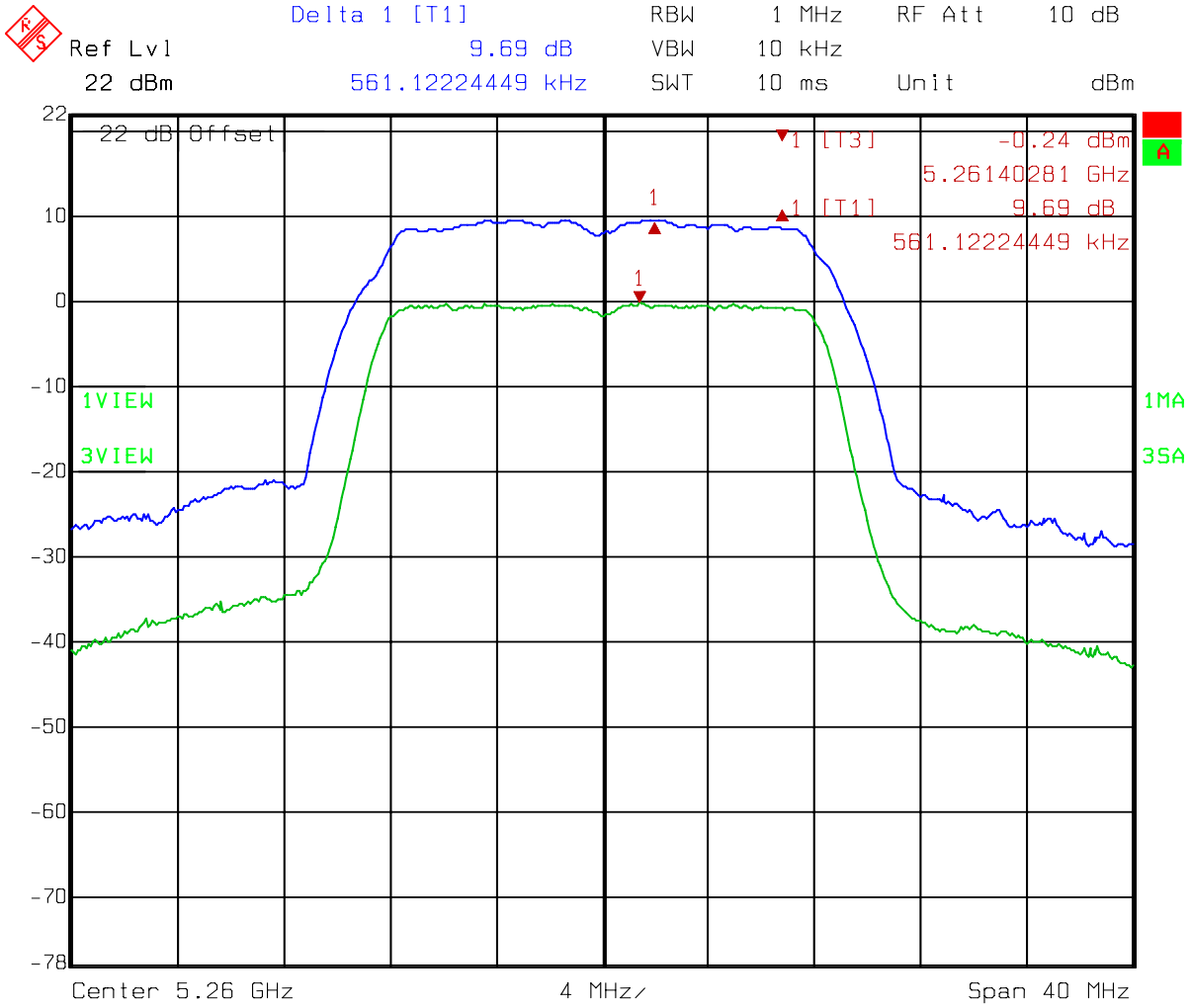
Title: PK Excursion AV
Comment A: CH 40 at 802.11a mode
Date: 13.NOV.2007 14:50:18

Single Tx
DACB: 802.11a CH48



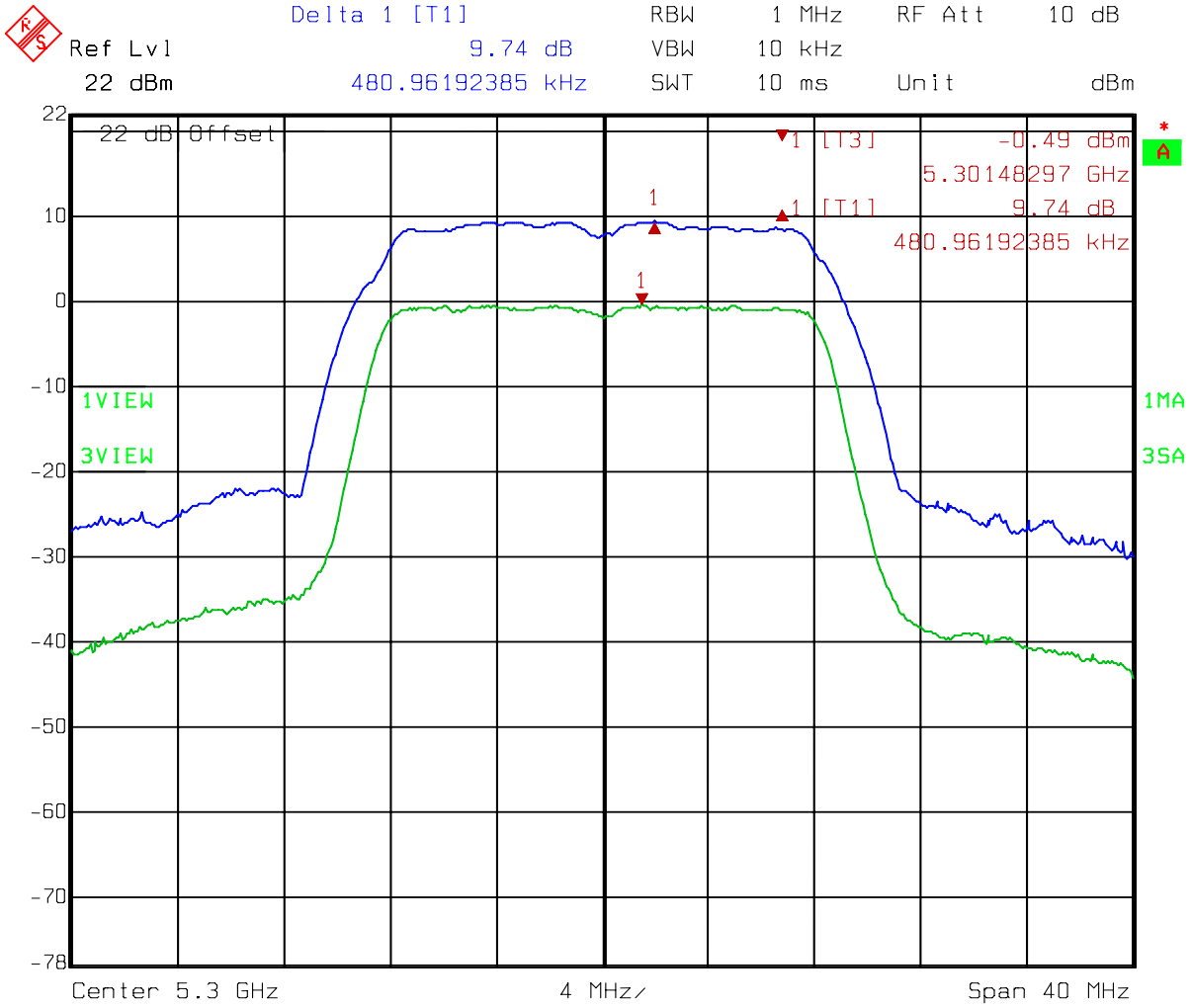
Title: PK Excursion AV
Comment A: CH 48 at 802.11a mode
Date: 13.NOV.2007 14:53:59

Single Tx
DACB: 802.11a CH52



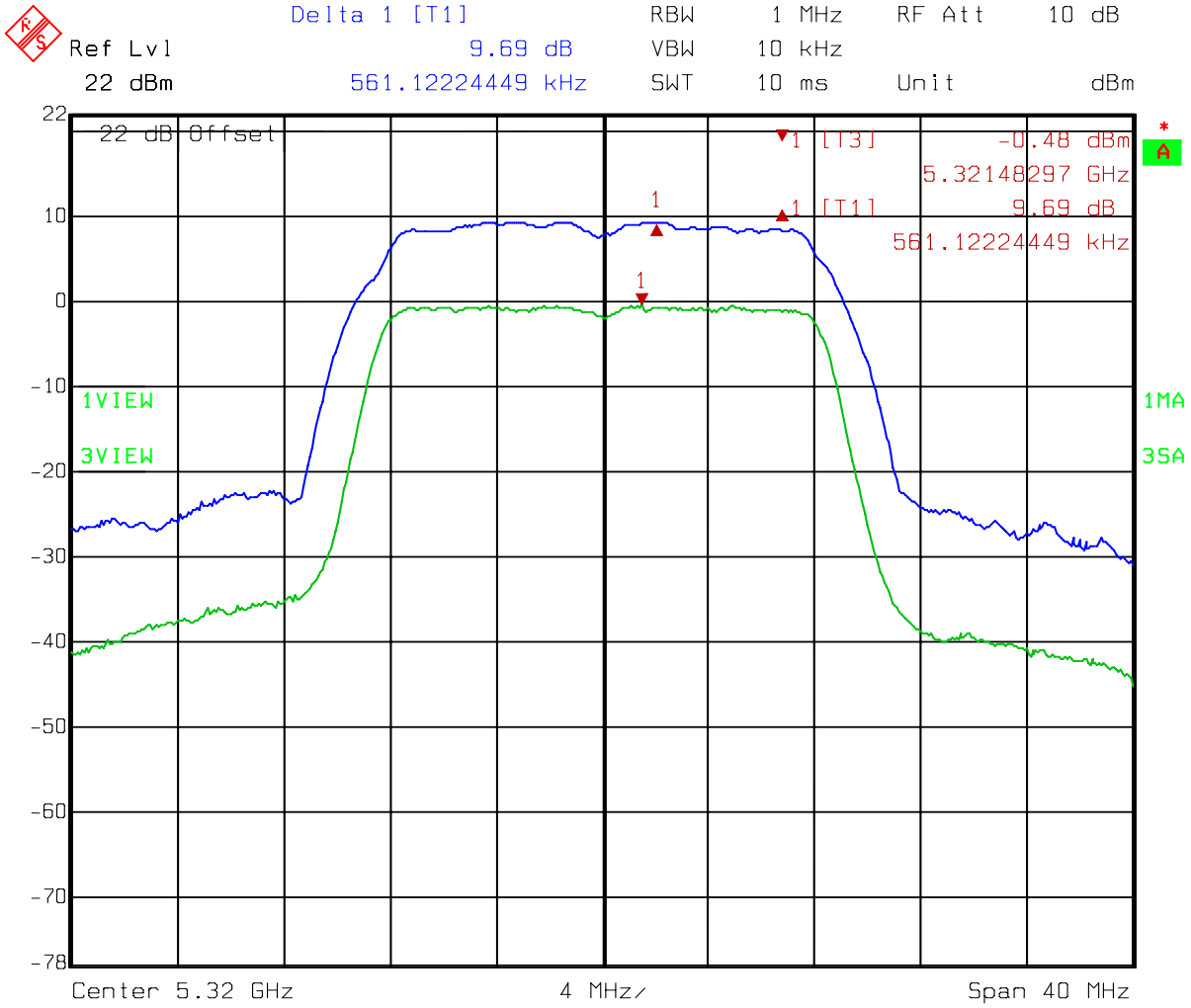
Title: PK Excursion AV
Comment A: CH 52 at 802.11a mode
Date: 13.NOV.2007 14:57:08

Single Tx
DACB: 802.11a CH60



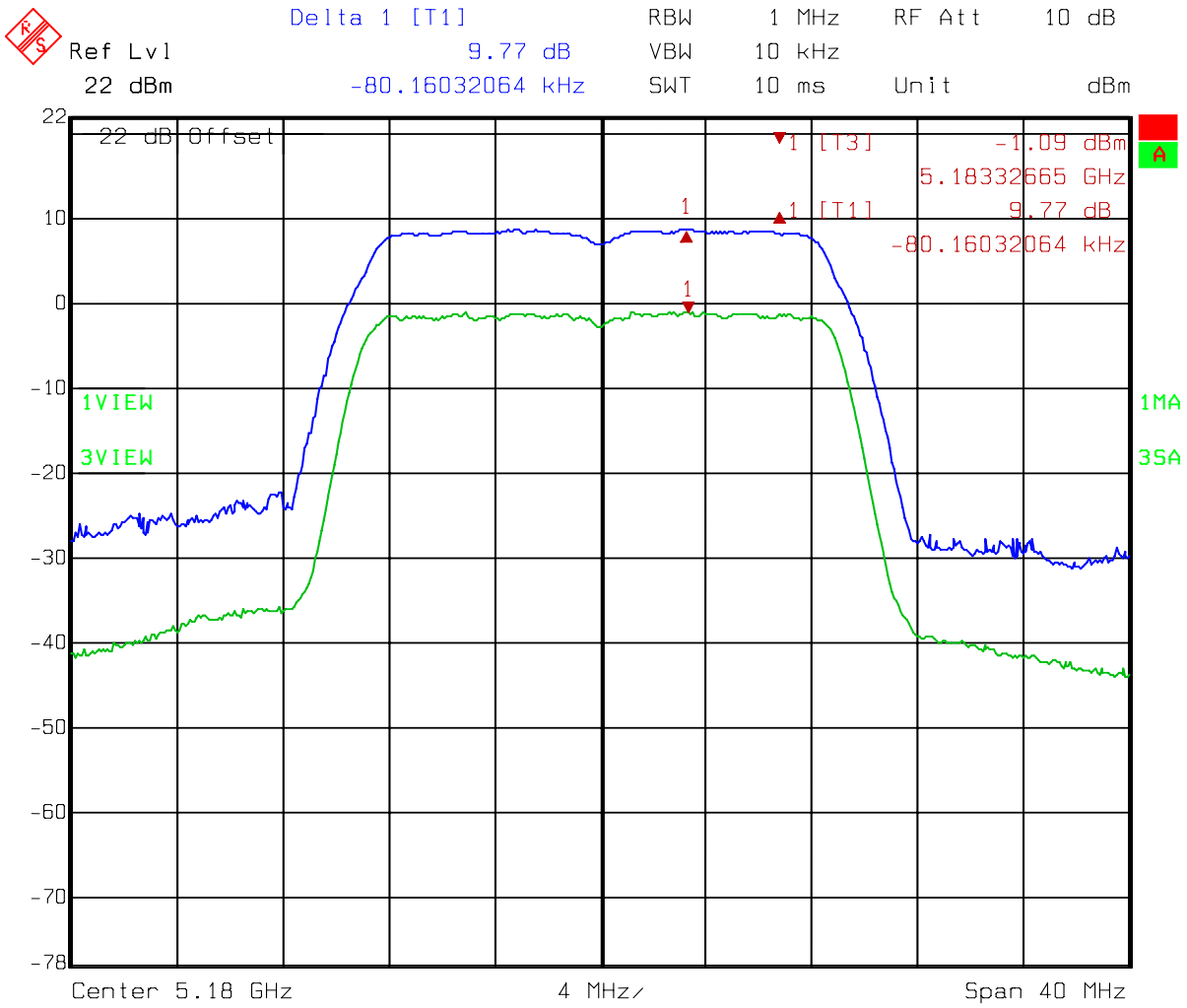
Title: PK Excursion AV
Comment A: CH 60 at 802.11a mode
Date: 13.NOV.2007 15:00:53

Single Tx
DACB: 802.11a CH64



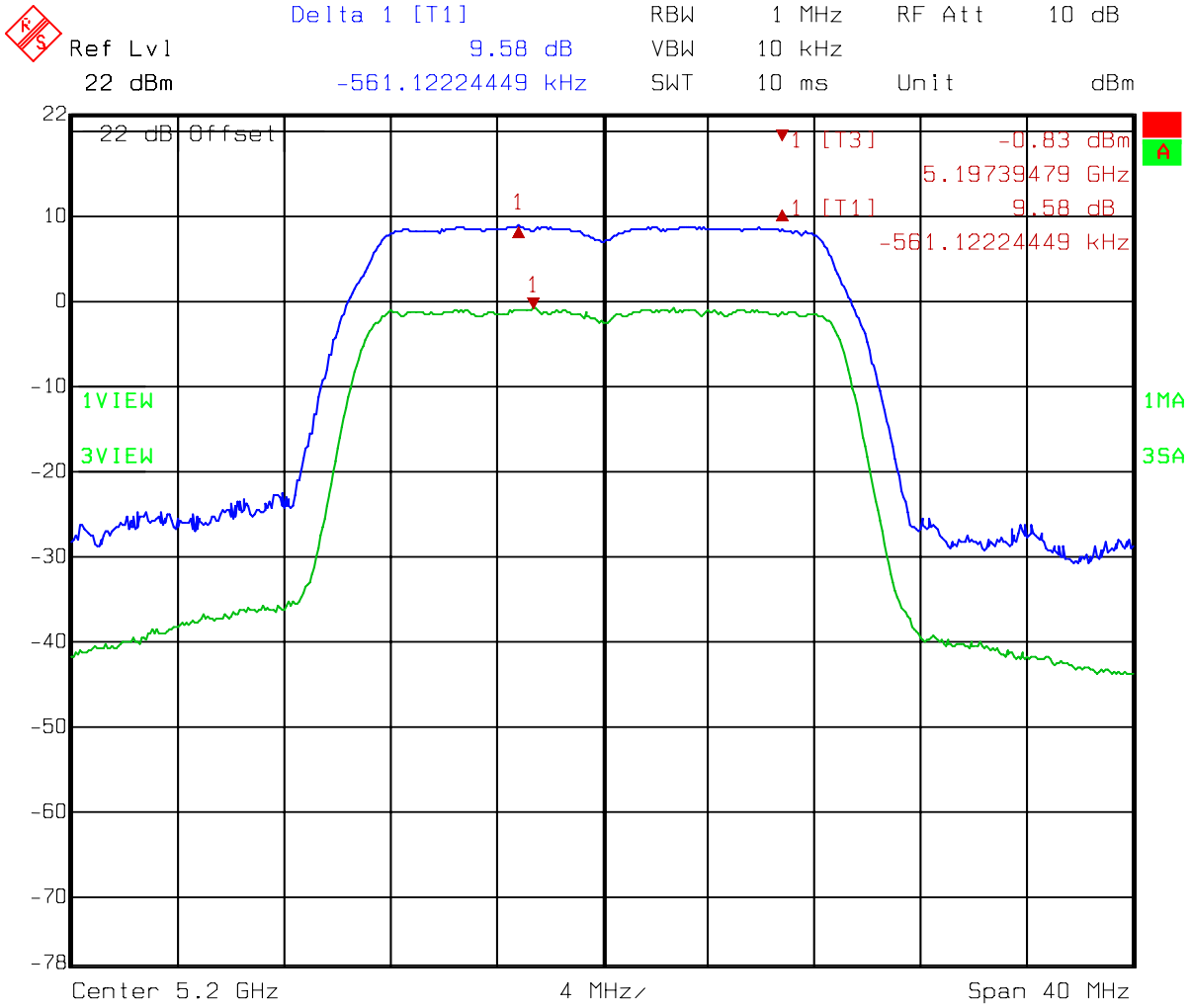
Title: PK Excursion AV
Comment A: CH 64 at 802.11a mode
Date: 13.NOV.2007 15:04:07

Dual Tx
DACA: 802.11n 20MHz CH36



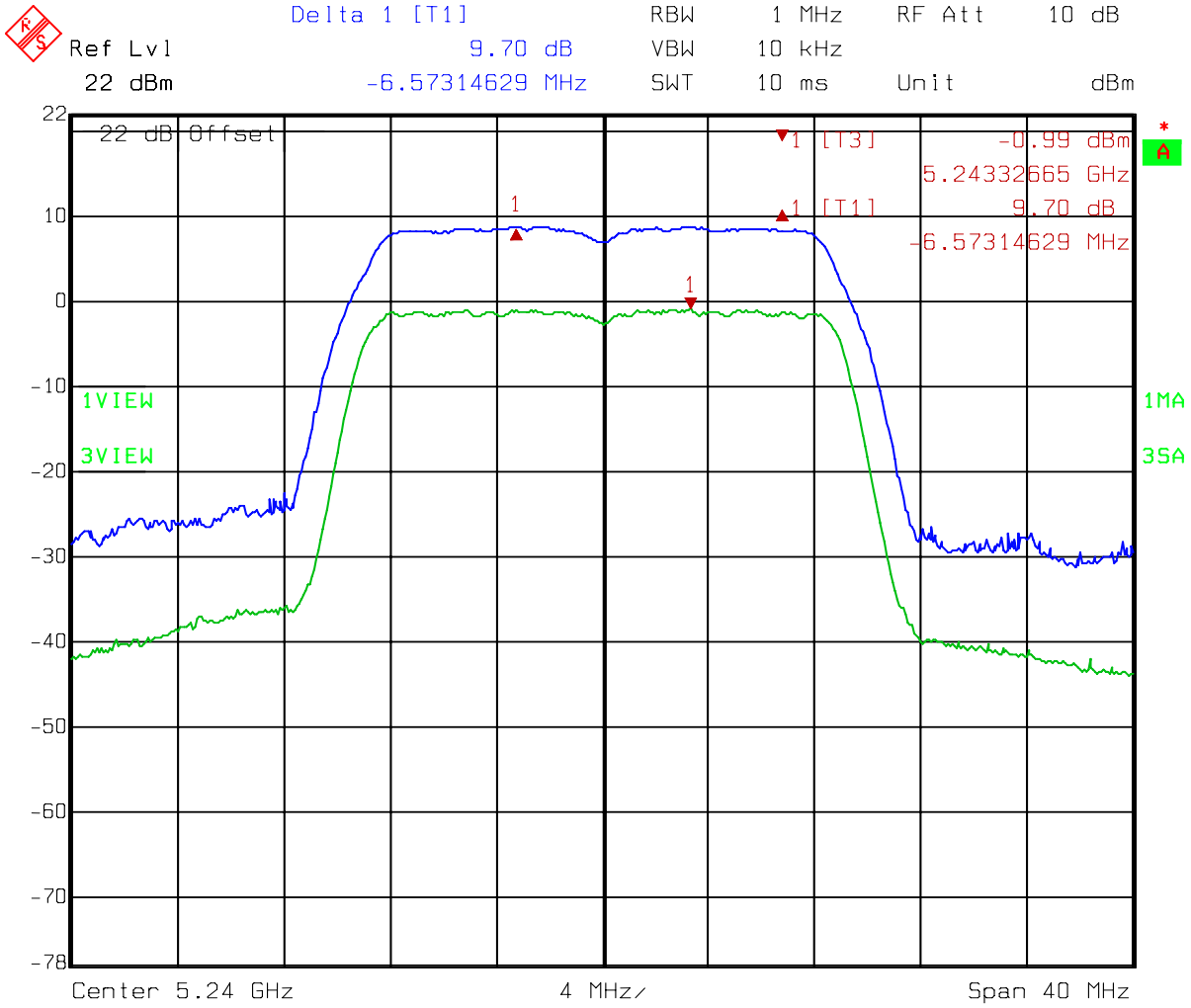
Title: PK Excursion AV
Comment A: CH 36 at 802.11a mode
Date: 13.NOV.2007 13:37:59

Dual Tx
DACA: 802.11n 20MHz CH40



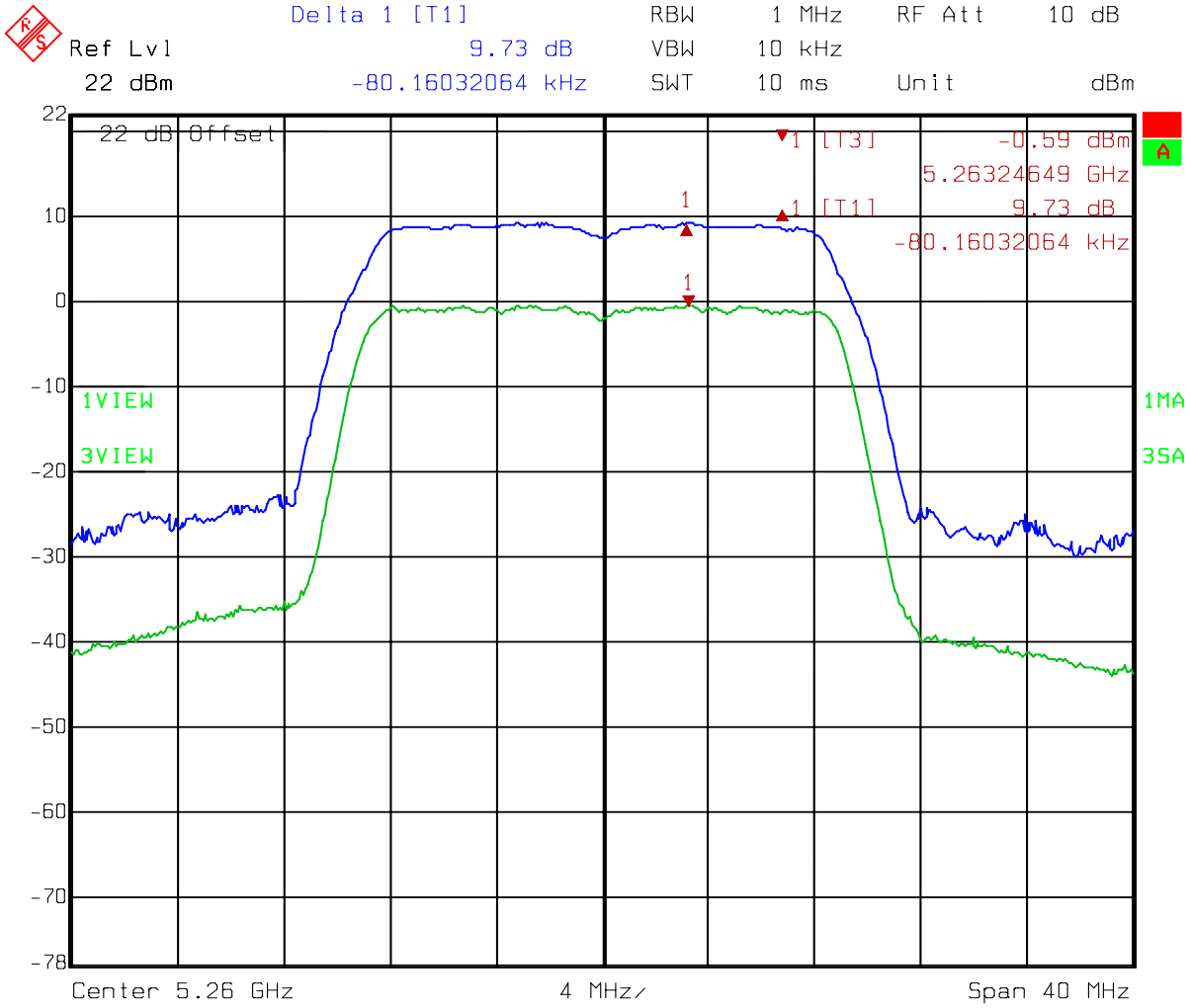
Title: PK Excursion AV
Comment A: CH 40 at 802.11a mode
Date: 13.NOV.2007 13:49:16

Dual Tx
DACA: 802.11n 20MHz CH48



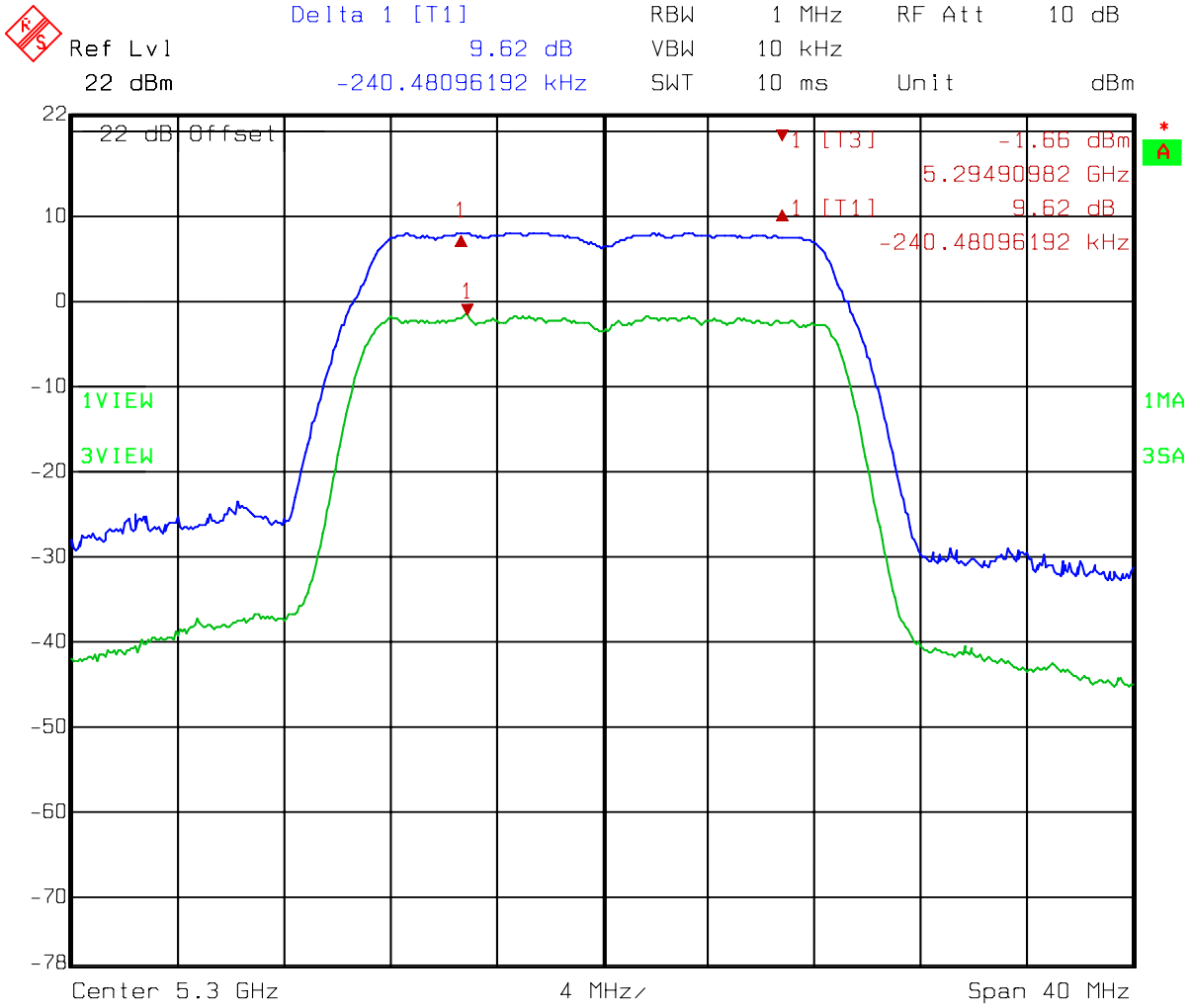
Title: PK Excursion AV
Comment A: CH 48 at 802.11a mode
Date: 13.NOV.2007 13:53:04

Dual Tx
DACA: 802.11n 20MHz CH52



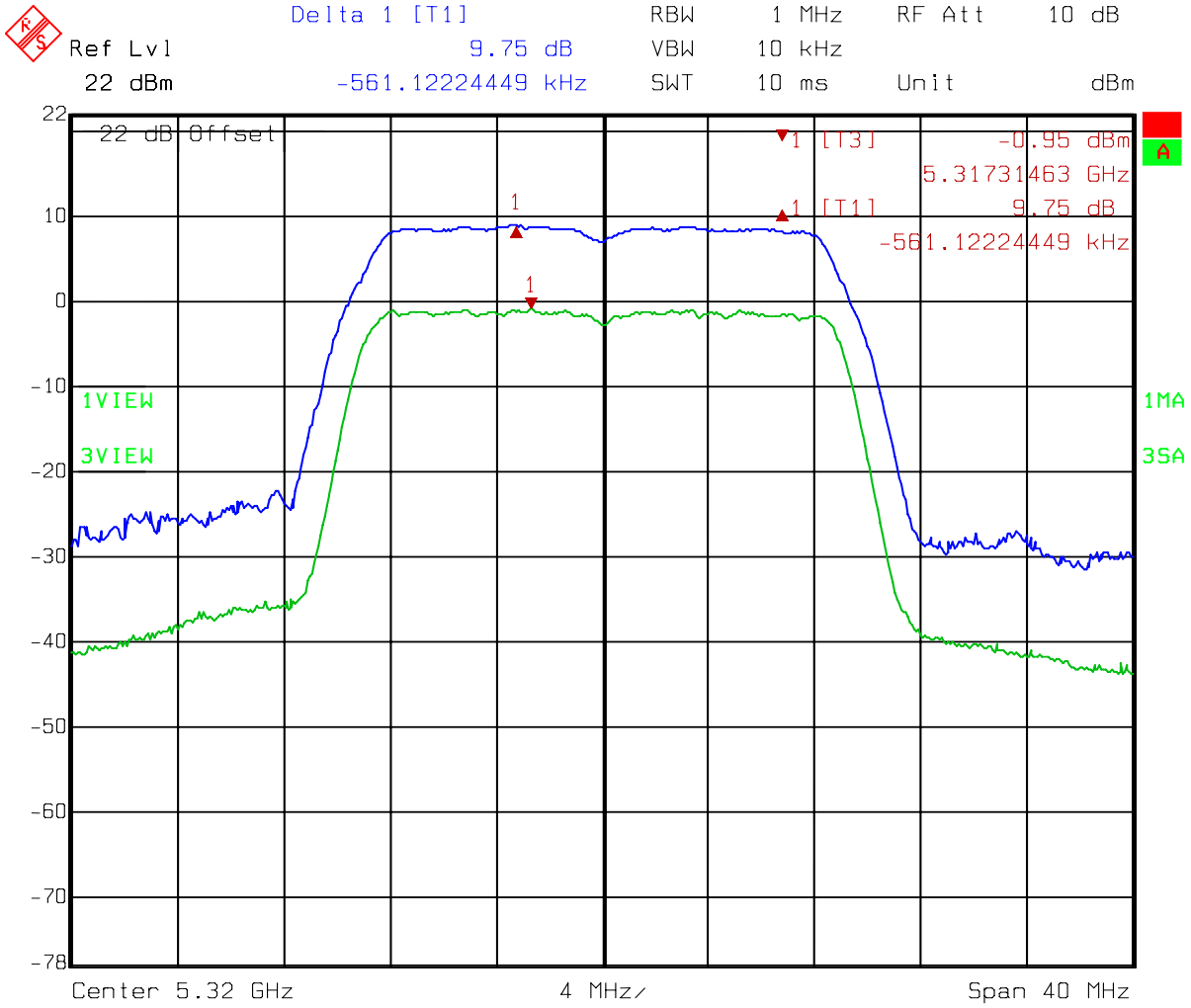
Title: PK Excursion AV
Comment A: CH 52 at 802.11a mode
Date: 13.NOV.2007 14:03:49

Dual Tx
DACA: 802.11n 20MHz CH60



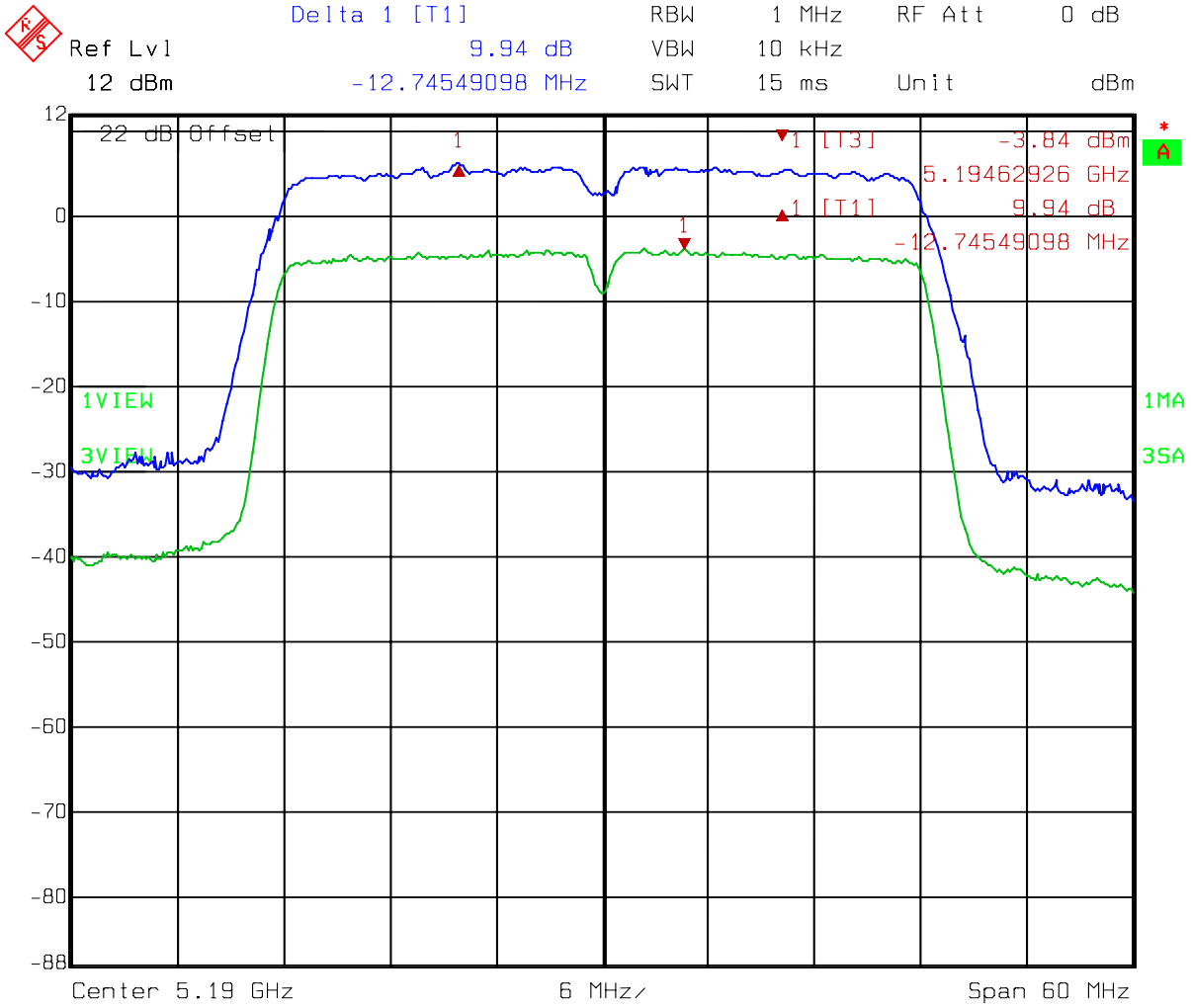
Title: PK Excursion AV
Comment A: CH 60 at 802.11a mode
Date: 13.NOV.2007 14:30:19

Dual Tx
DACA: 802.11n 20MHz CH64



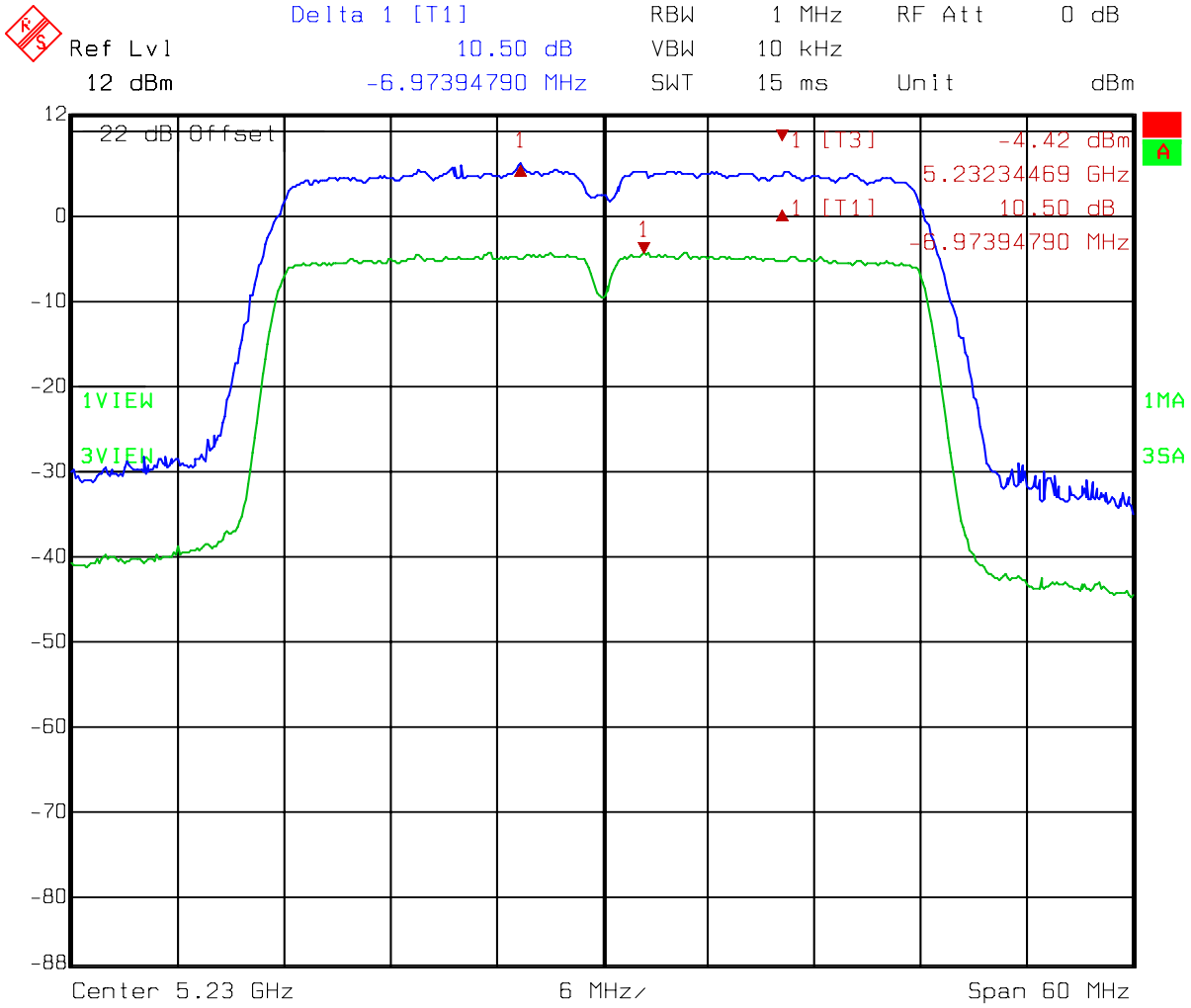
Title: PK Excursion AV
Comment A: CH 64 at 802.11a mode
Date: 13.NOV.2007 16:29:04

Dual Tx
DACA: 802.11n 40MHz CH38



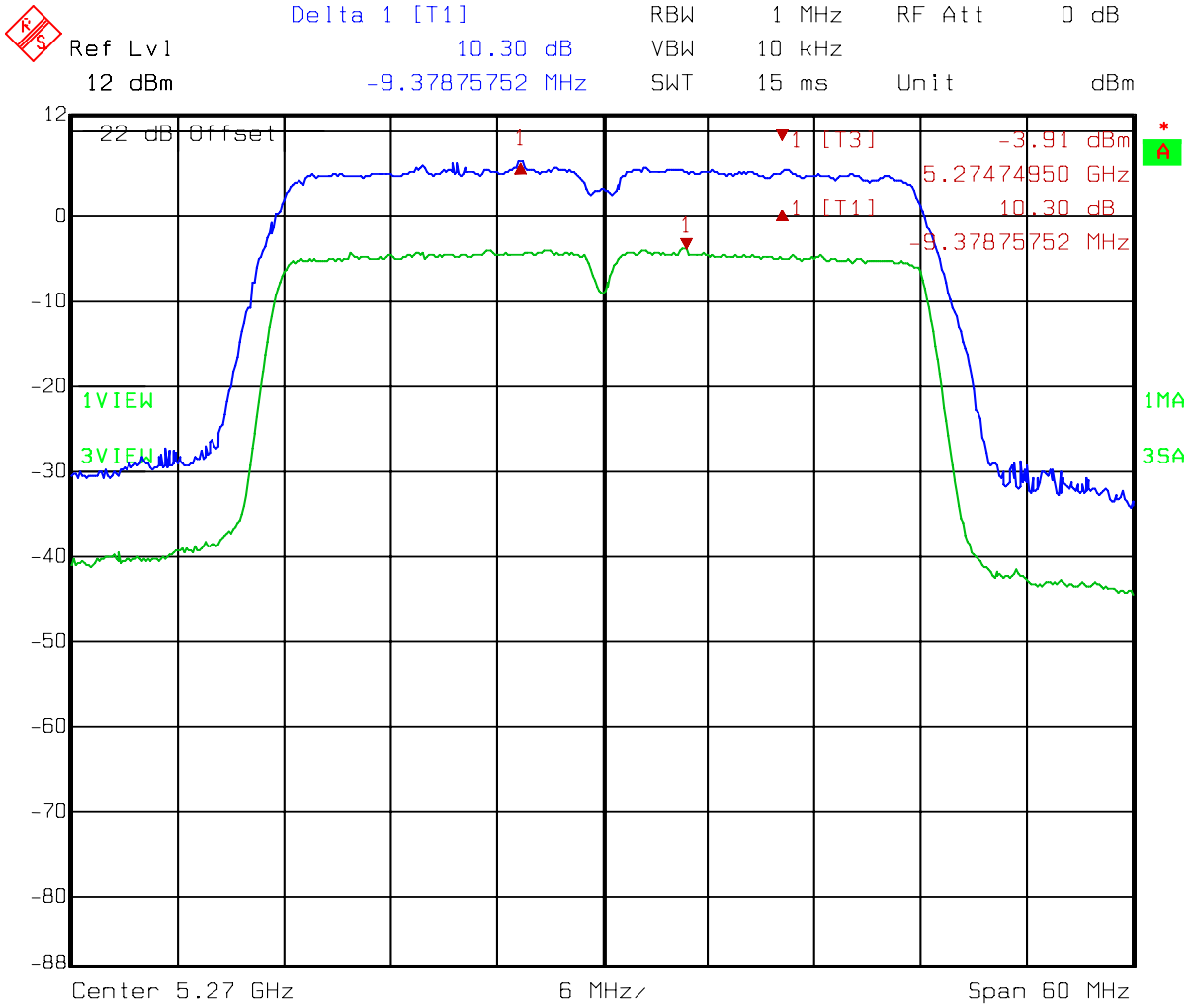
Title: PK Excursion AV
Comment A: CH 38 at 802.11a mode
Date: 13.NOV.2007 11:46:20

Dual Tx
DACA: 802.11n 40MHz CH46



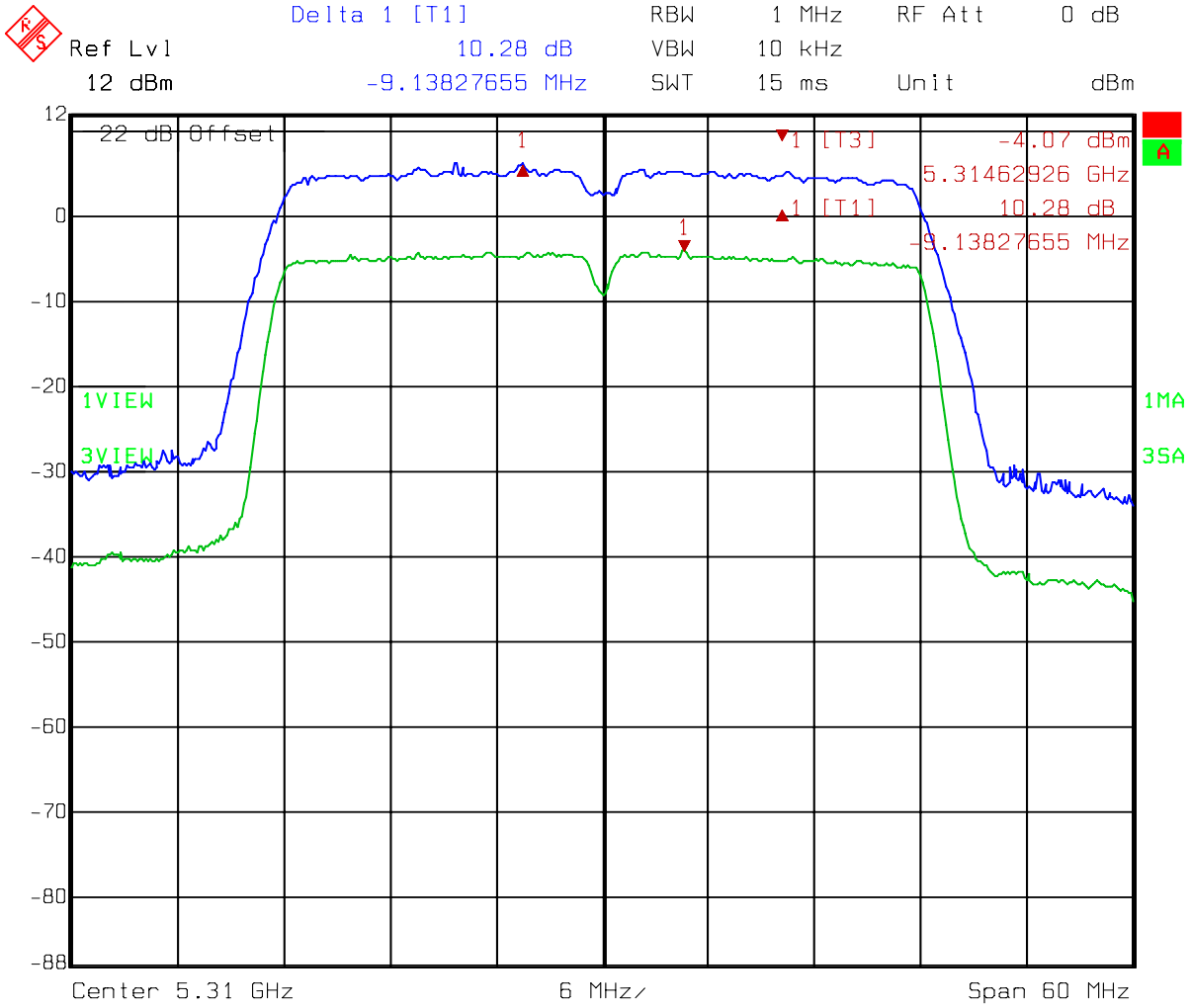
Title: PK Excursion AV
Comment A: CH 46 at 802.11a mode
Date: 13.NOV.2007 11:50:46

Dual Tx
DACA: 802.11n 40MHz CH54



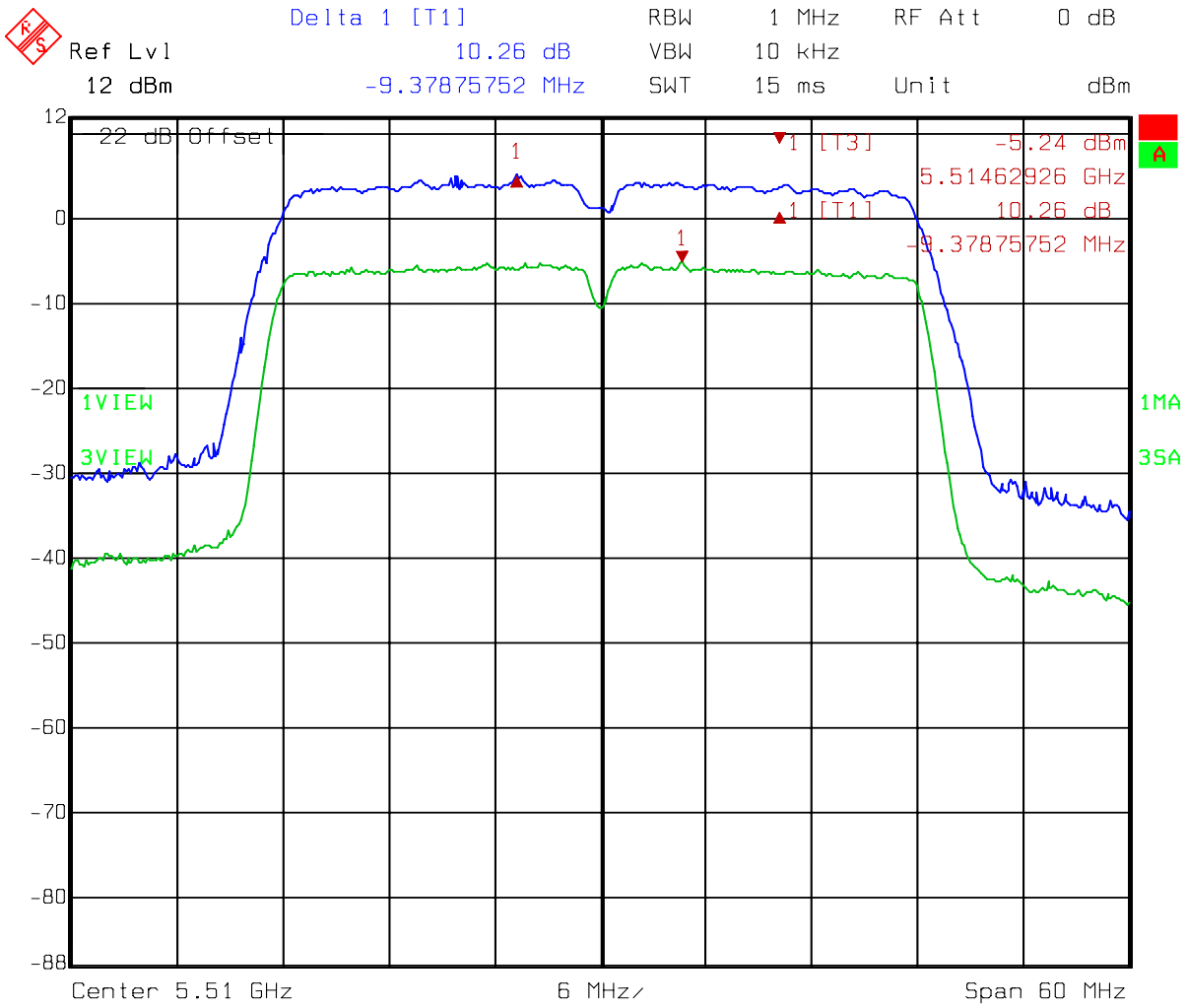
Title: PK Excursion AV
Comment A: CH 54 at 802.11a mode
Date: 13.NOV.2007 12:02:37

Dual Tx
DACA: 802.11n 40MHz CH62



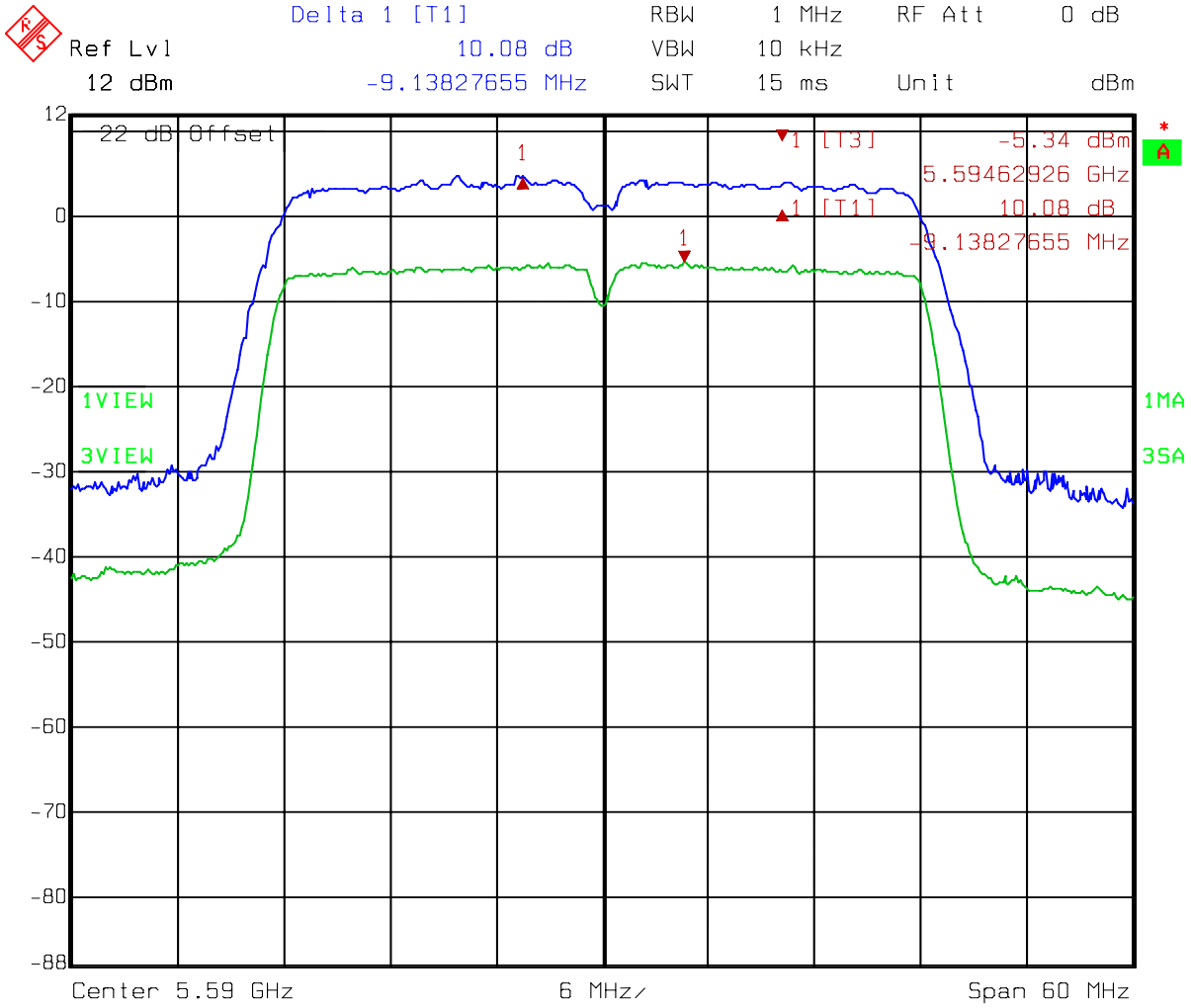
Title: PK Excursion AV
Comment A: CH 62 at 802.11a mode
Date: 13.NOV.2007 12:06:28

Dual Tx
DACA: 802.11n 40MHz CH102



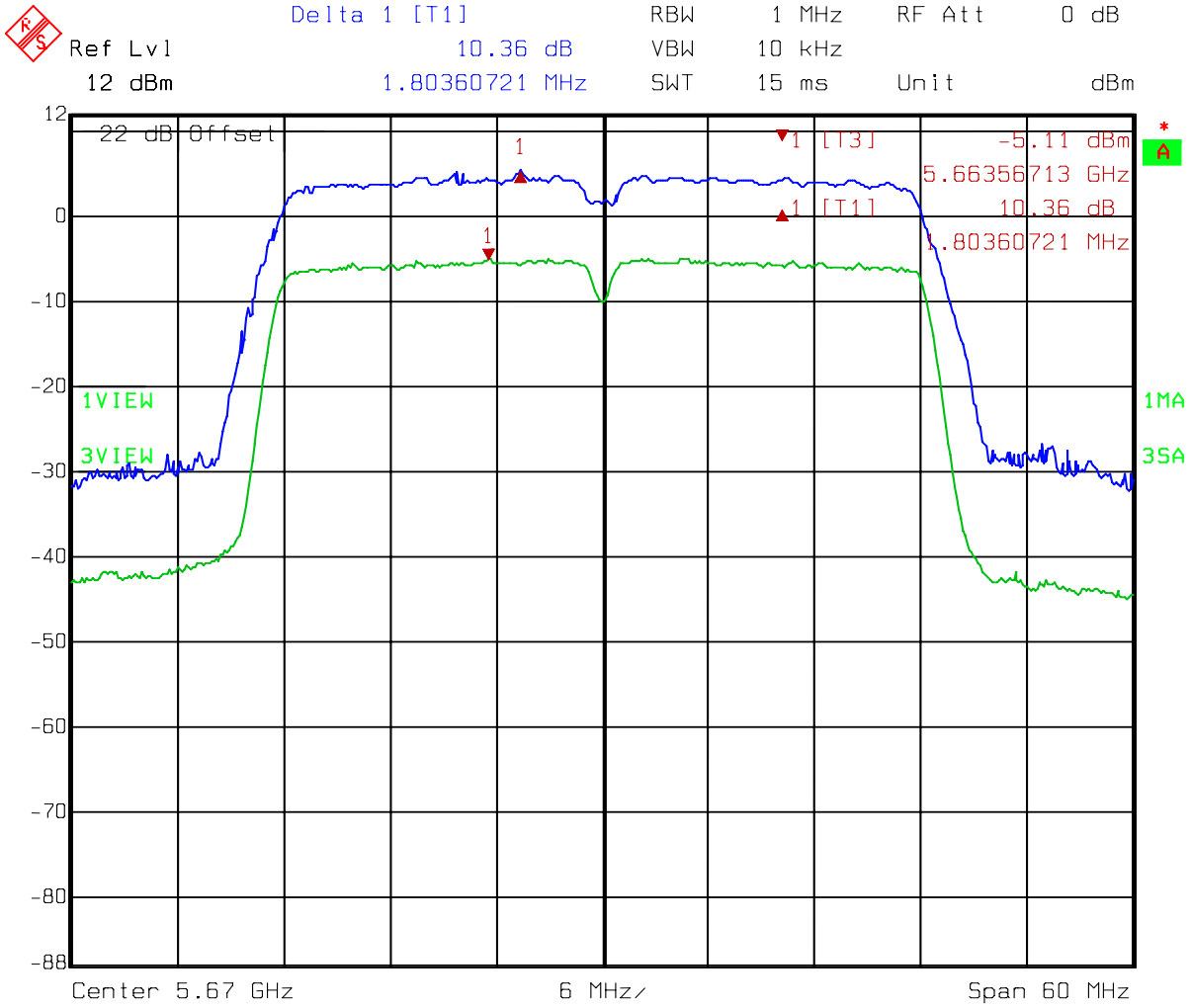
Title: PK Excursion AV
Comment A: CH 102 at 802.11a mode
Date: 13.NOV.2007 13:17:39

Dual Tx
DACA: 802.11n 40MHz CH118



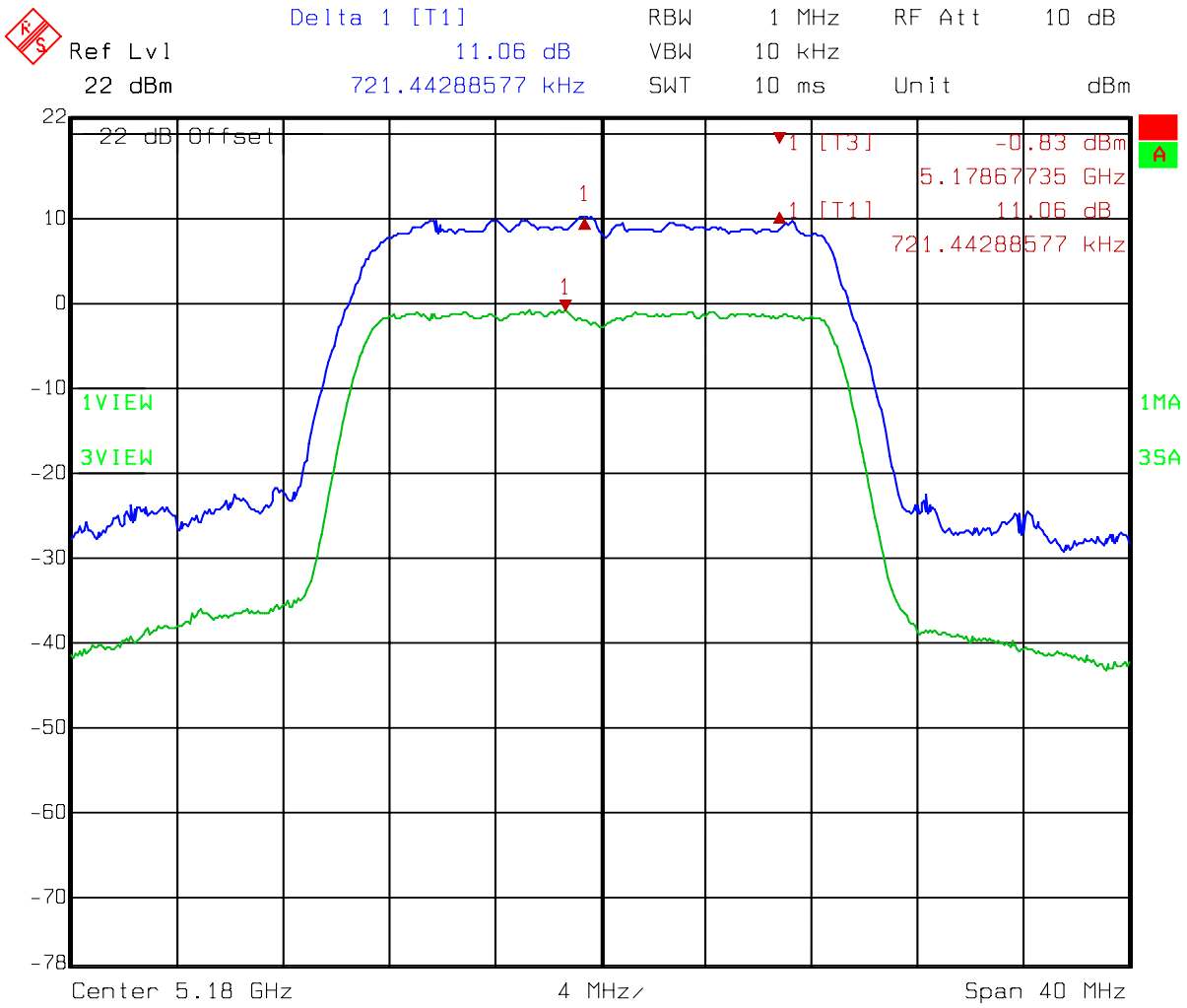
Title: PK Excursion AV
Comment A: CH 118 at 802.11a mode
Date: 13.NOV.2007 13:20:59

Dual Tx
DACA: 802.11n 40MHz CH134



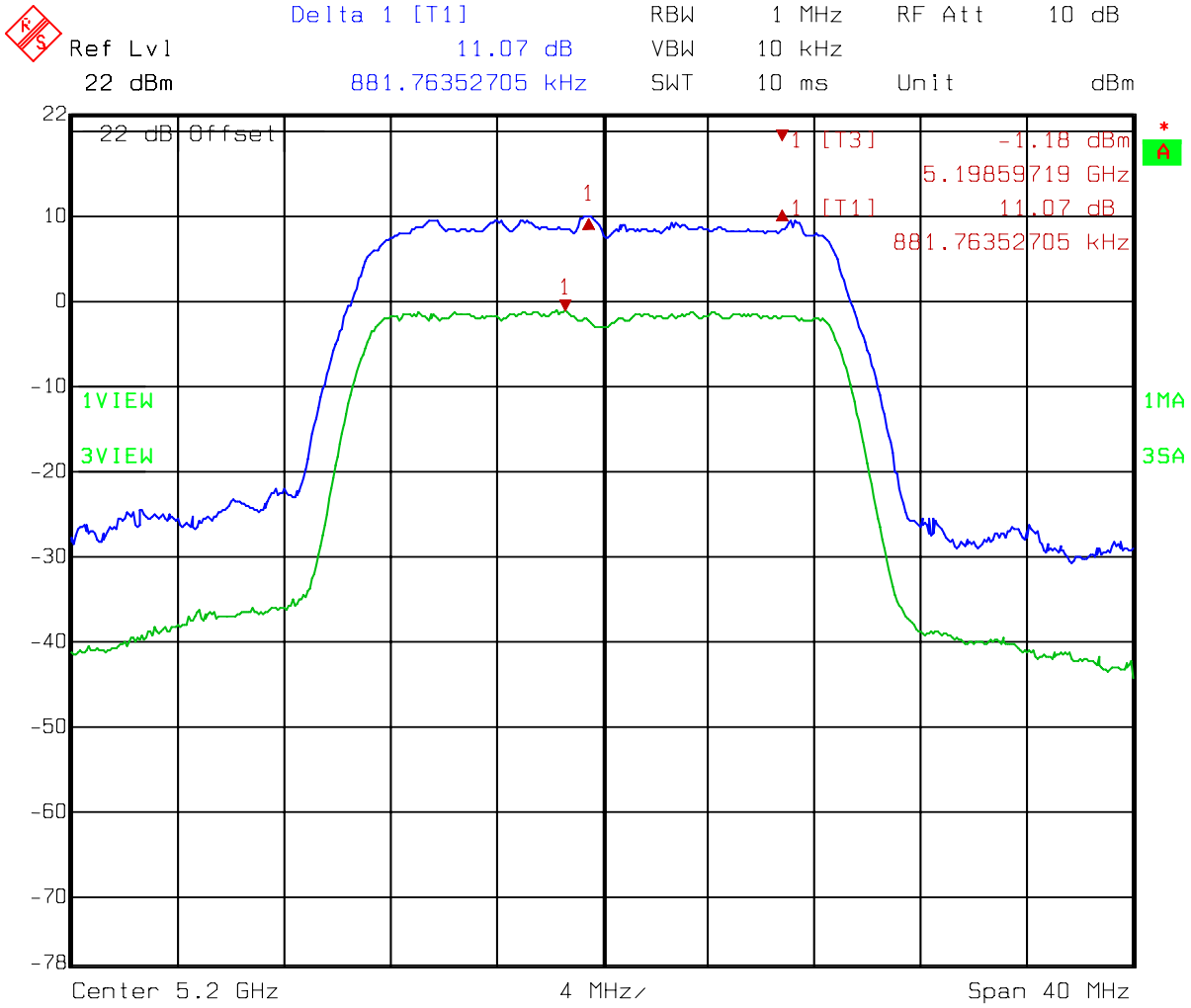
Title: PK Excursion AV
Comment A: CH 134 at 802.11a mode
Date: 13.NOV.2007 13:31:10

Dual Tx
DACB: 802.11n 20MHz CH36



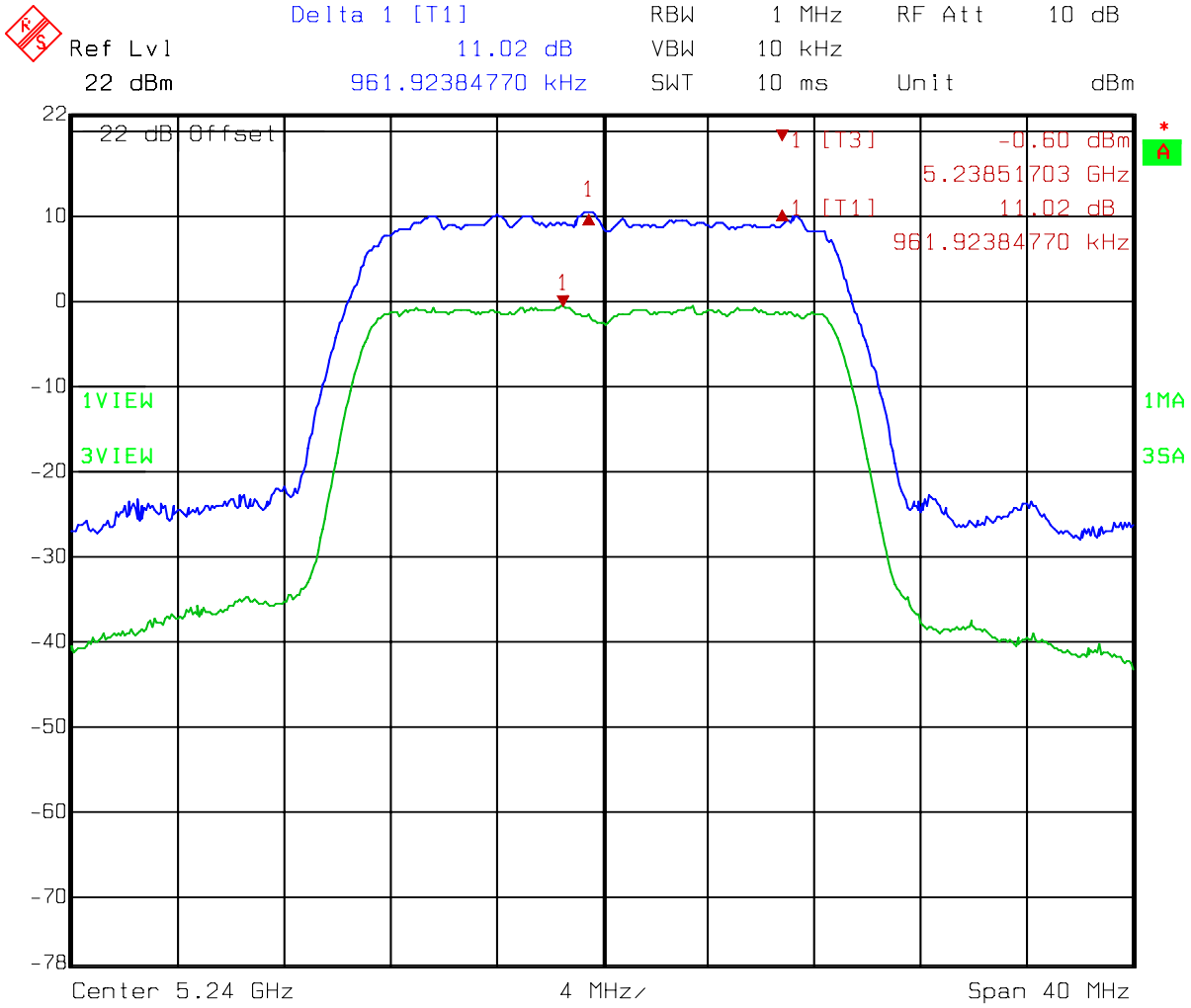
Title: PK Excursion AV
Comment A: CH 36 at 802.11a mode
Date: 13.NOV.2007 13:41:16

Dual Tx
DACB: 802.11n 20MHz CH40



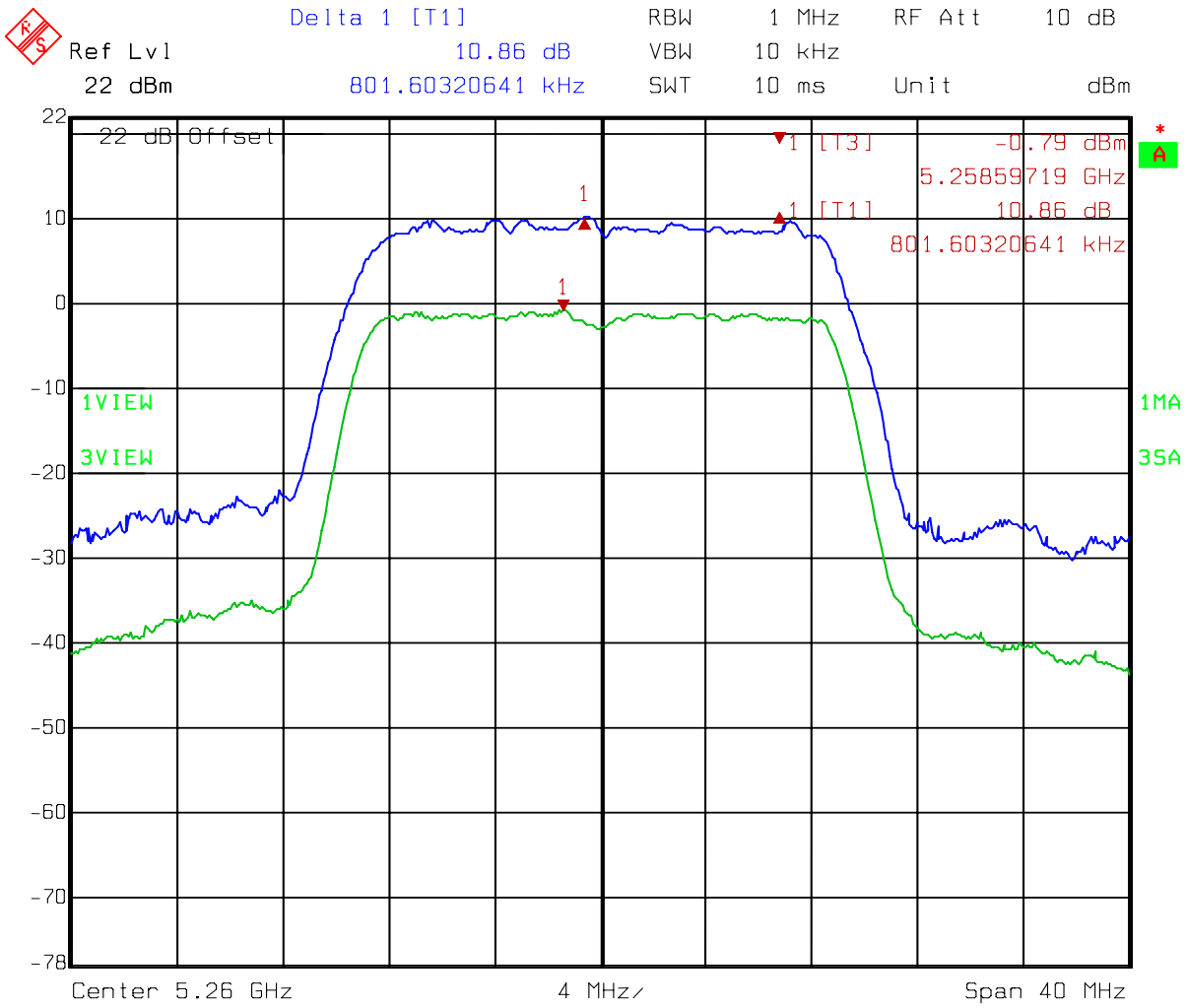
Title: PK Excursion AV
Comment A: CH 40 at 802.11a mode
Date: 13.NOV.2007 13:44:22

Dual Tx
DACB: 802.11n 20MHz CH48



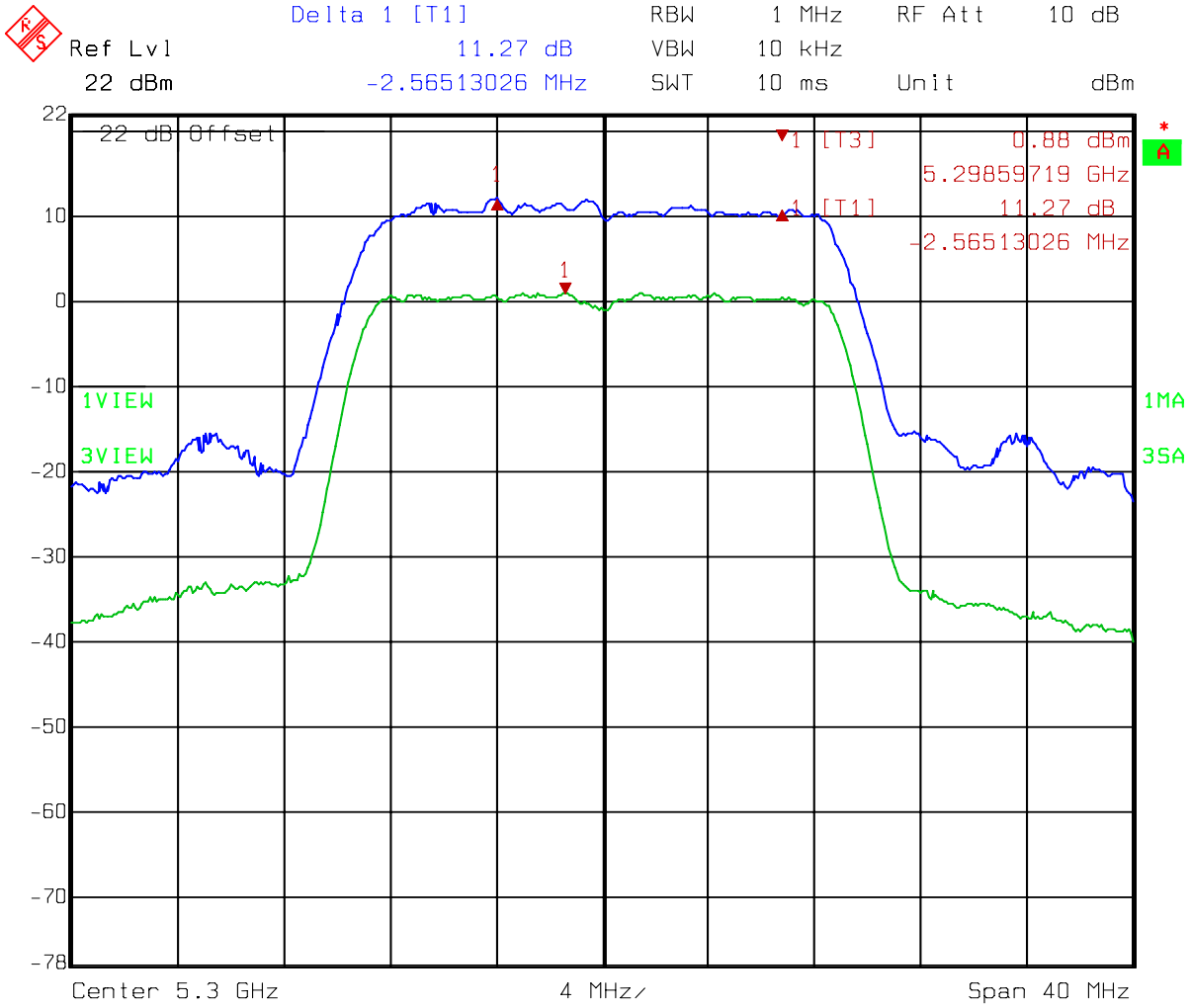
Title: PK Excursion AV
Comment A: CH 48 at 802.11a mode
Date: 13.NOV.2007 13:56:42

Dual Tx
DACB: 802.11n 20MHz CH52



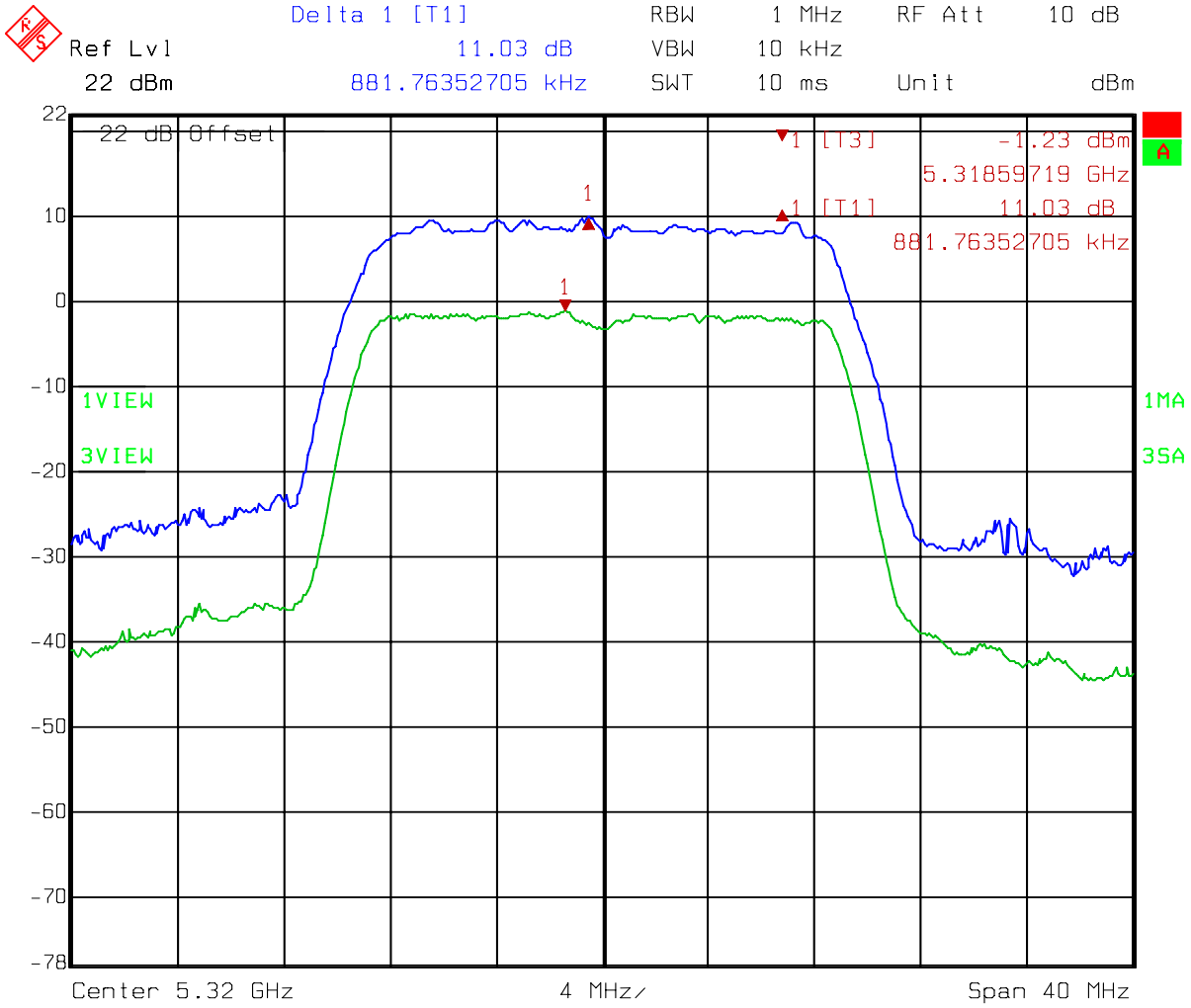
Title: PK Excursion AV
Comment A: CH 52 at 802.11a mode
Date: 13.NOV.2007 14:00:33

Dual Tx
DACB: 802.11n 20MHz CH60



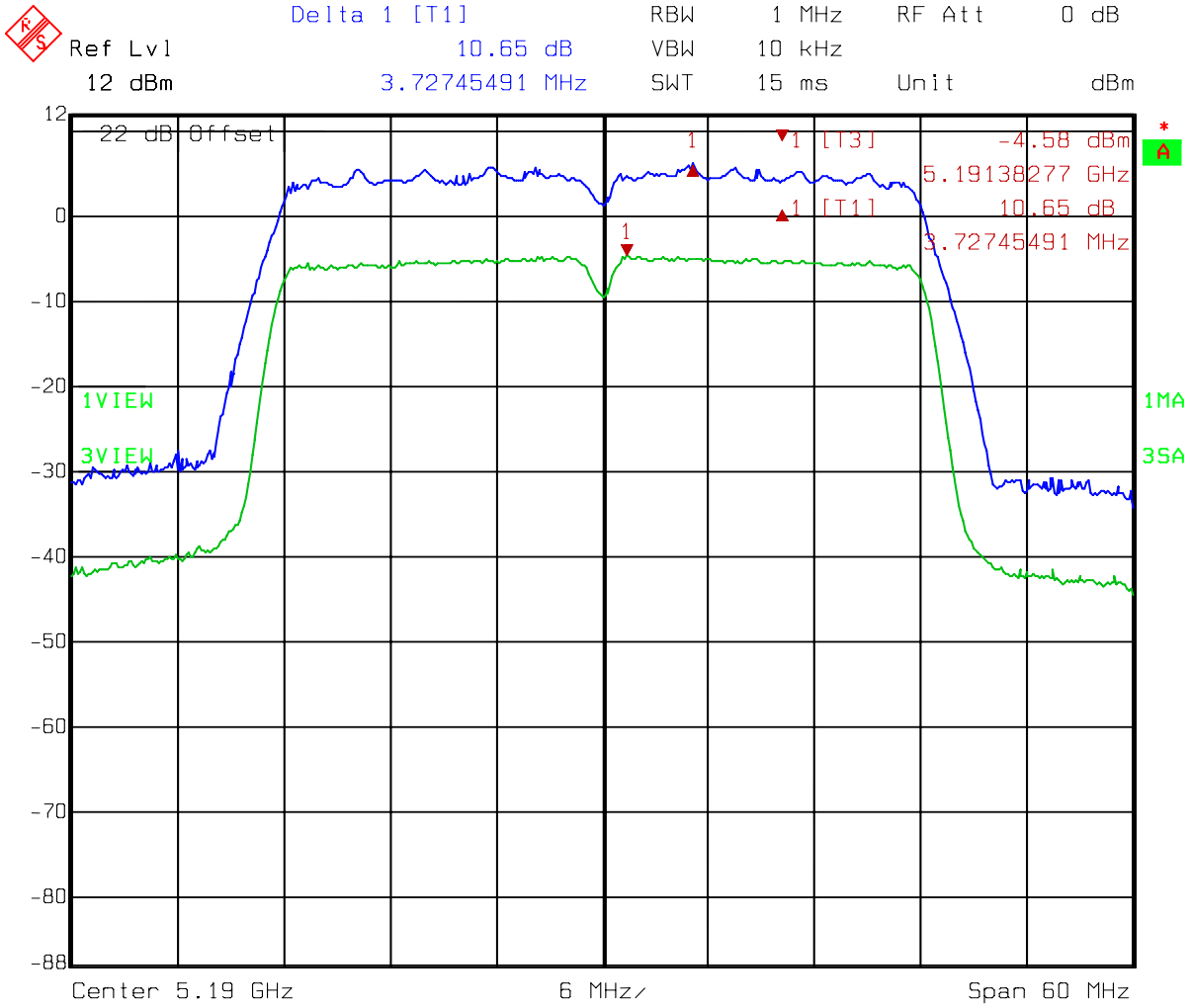
Title: PK Excursion AV
Comment A: CH 60 at 802.11a mode
Date: 13.NOV.2007 14:33:42

Dual Tx
DACB: 802.11n 20MHz CH64



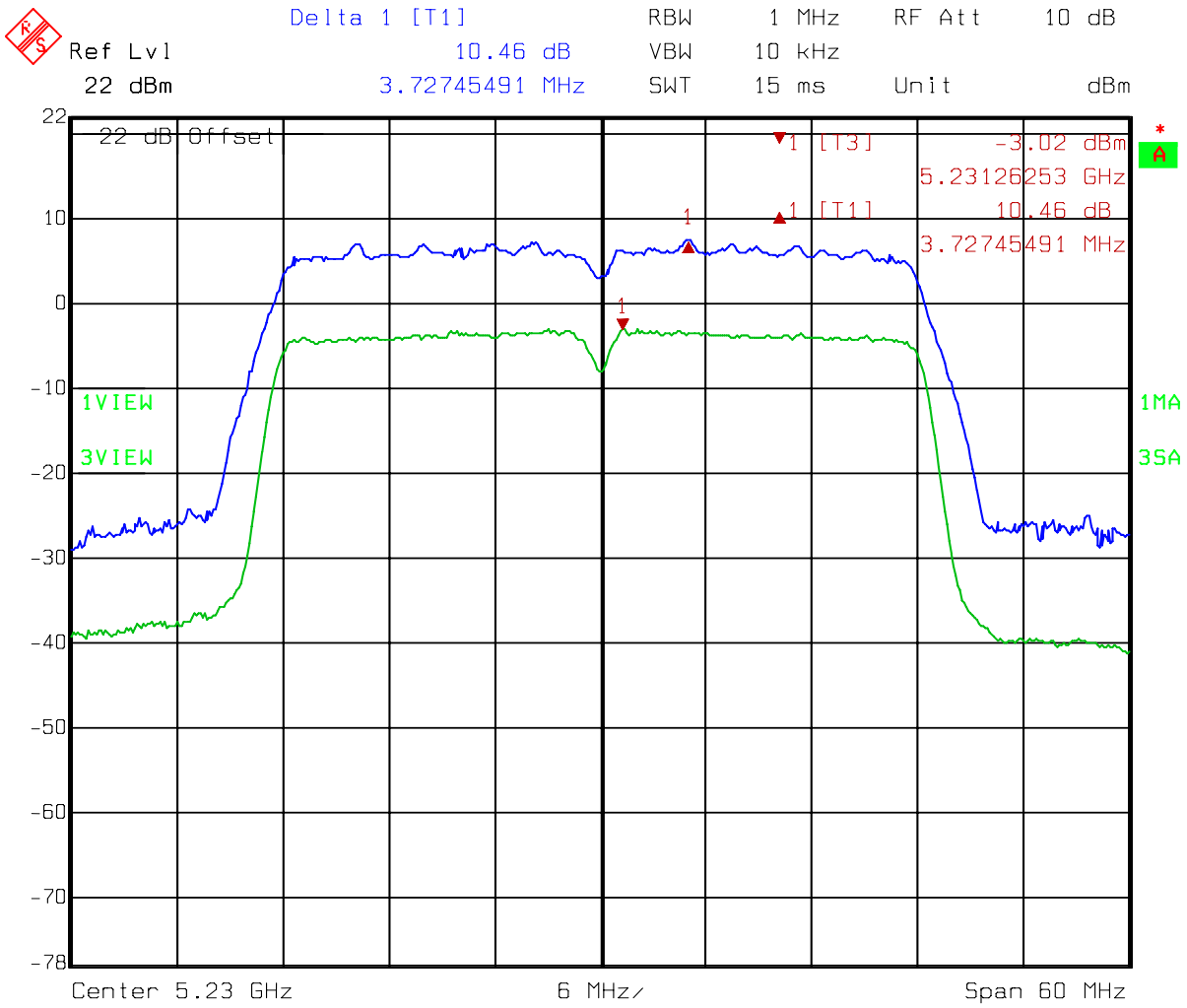
Title: PK Excursion AV
Comment A: CH 64 at 802.11a mode
Date: 13.NOV.2007 14:36:43

Dual Tx
DACB: 802.11n 40MHz CH38



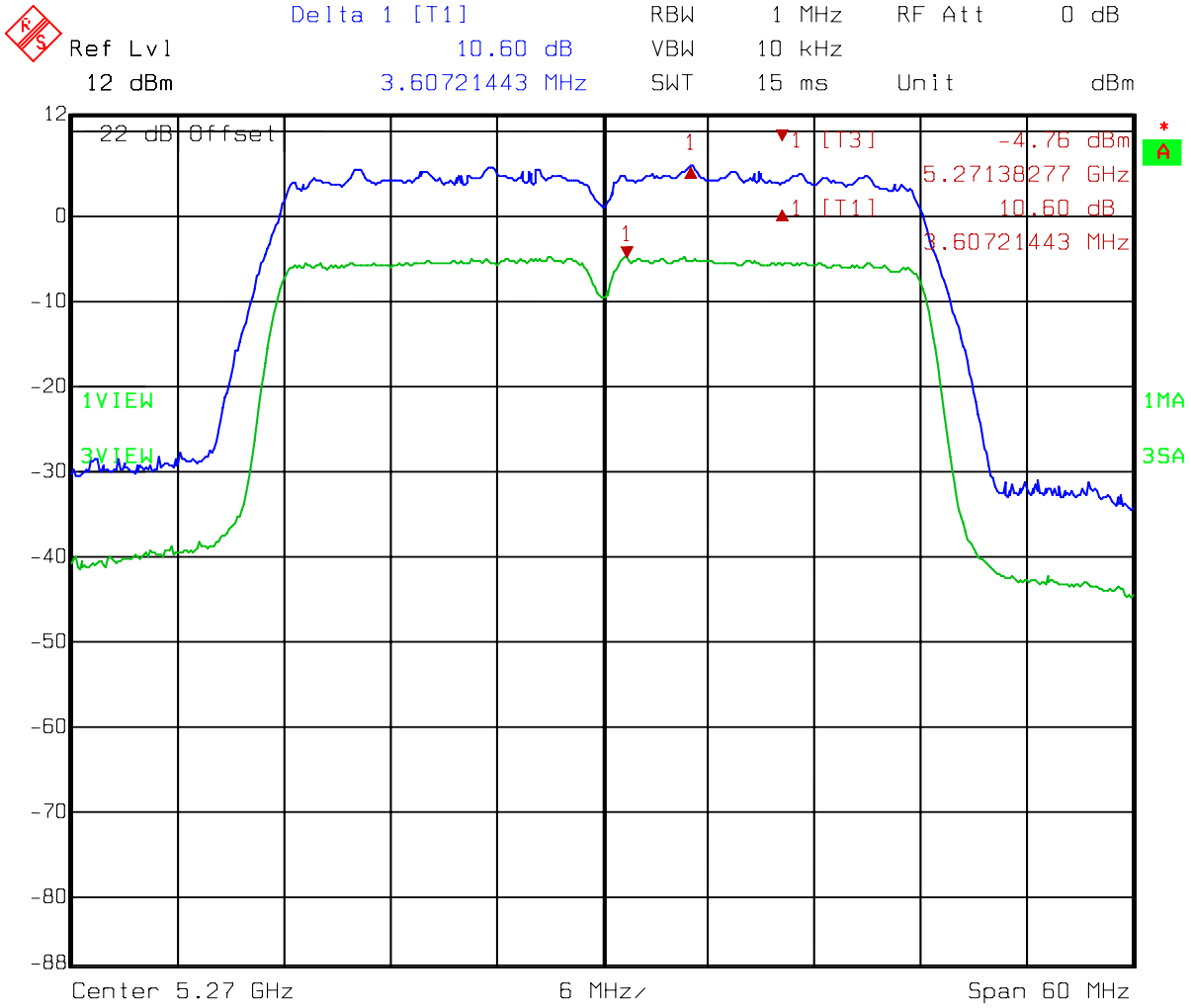
Title: PK Excursion AV
Comment A: CH 38 at 802.11a mode
Date: 13.NOV.2007 11:43:04

Dual Tx
DACB: 802.11n 40MHz CH46



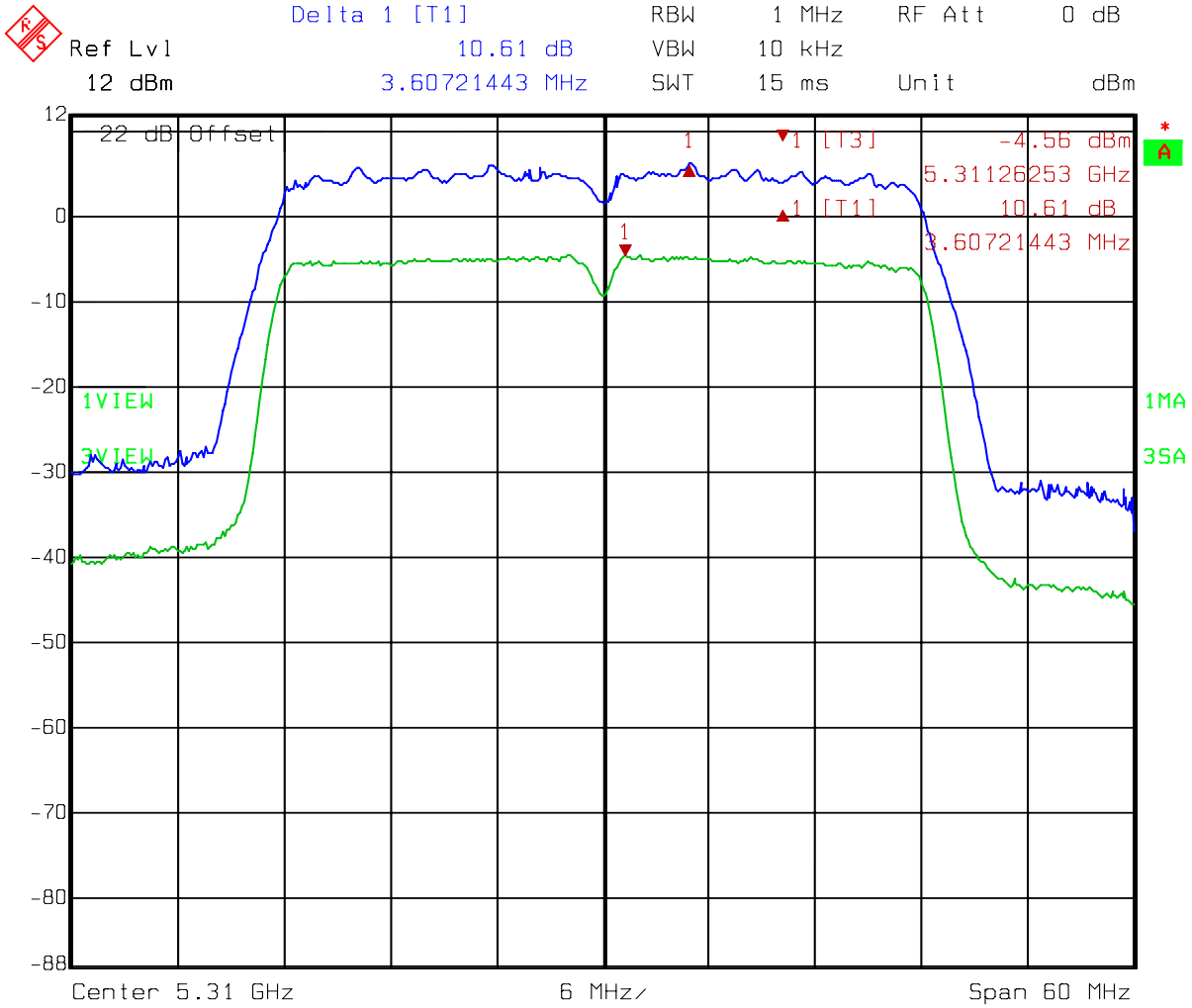
Title: PK Excursion AV
Comment A: CH 46 at 802.11a mode
Date: 13.NOV.2007 11:54:25

Dual Tx
DACB: 802.11n 40MHz CH54



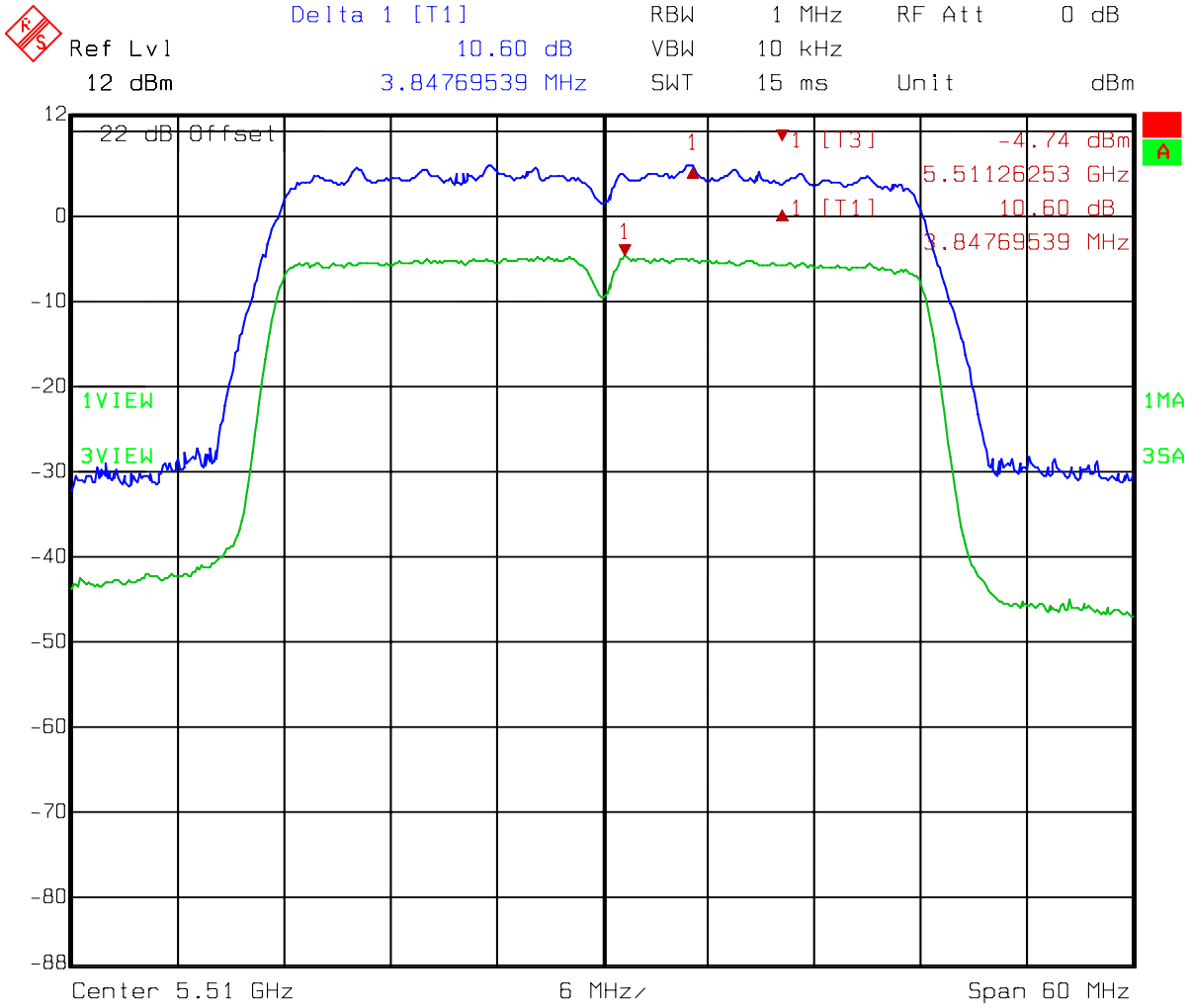
Title: PK Excursion AV
Comment A: CH 54 at 802.11a mode
Date: 13.NOV.2007 11:59:10

Dual Tx
DACB: 802.11n 40MHz CH62



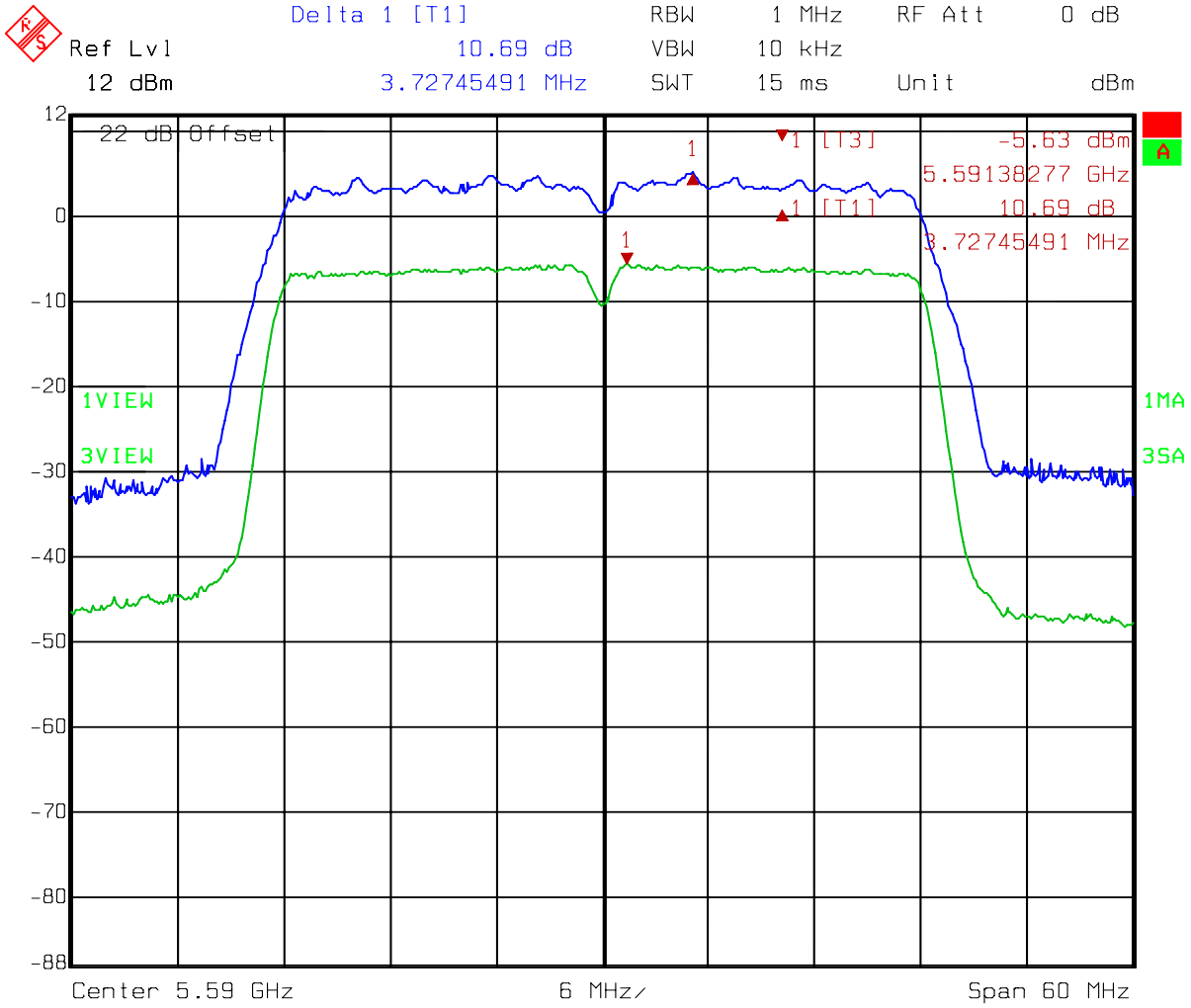
Title: PK Excursion AV
Comment A: CH 62 at 802.11a mode
Date: 13.NOV.2007 12:09:57

Dual Tx
DACB: 802.11n 40MHz CH102



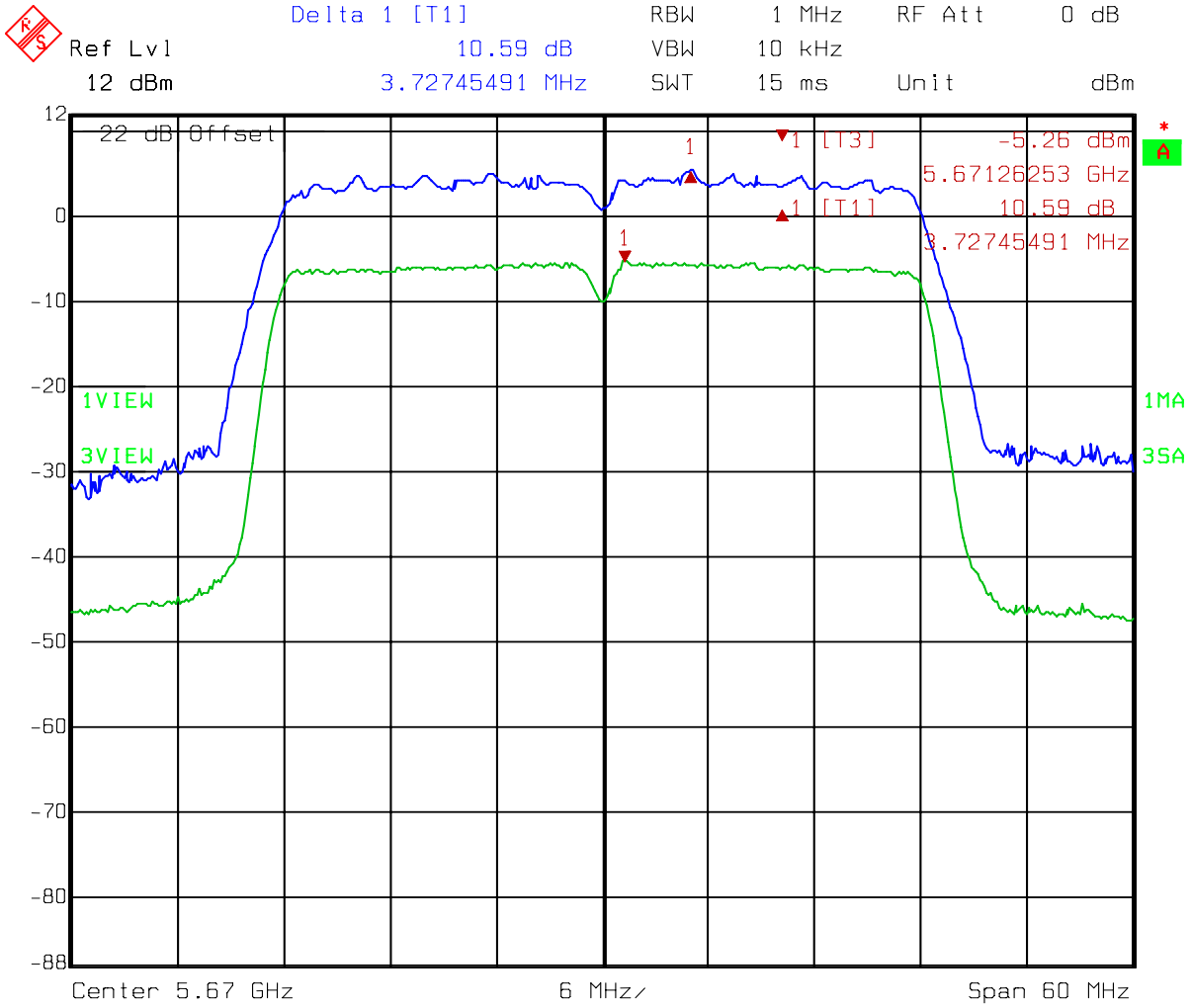
Title: PK Excursion AV
Comment A: CH 102 at 802.11a mode
Date: 13.NOV.2007 13:13:25

Dual Tx
DACB: 802.11n 40MHz CH118



Title: PK Excursion AV
Comment A: CH 118 at 802.11a mode
Date: 13.NOV.2007 13:23:58

Dual Tx
DACB: 802.11n 40MHz CH134



Title: PK Excursion AV
Comment A: CH 134 at 802.11a mode
Date: 13.NOV.2007 13:27:47

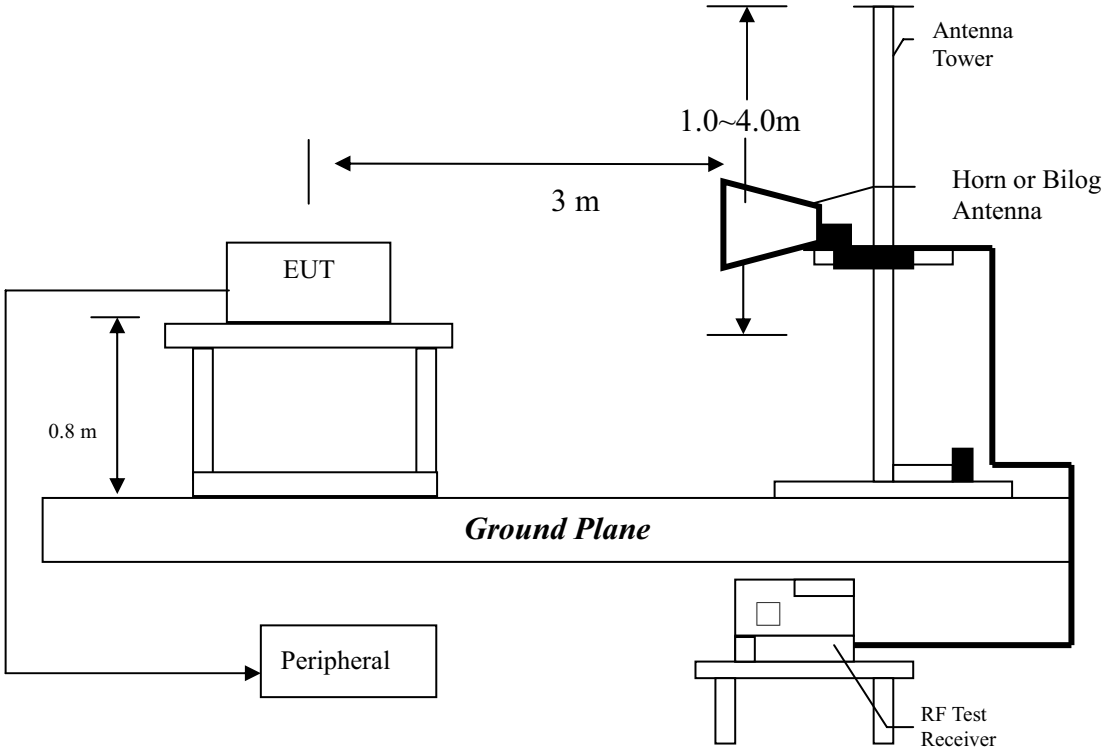
6. Radiated Emission test (FCC 15.205 & 15.209)

6.1 Operating environment

Temperature:	23	℃
Relative Humidity:	58	%
Atmospheric Pressure	1023	hPa

6.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emission measurements were performed from 30MHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

6.3 Emission limits

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Frequency (MHz)	Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:
1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.
Expanded uncertainty (k=2) of radiated emission measurement is ±3.078 dB.
Expanded uncertainty (k=2) of conducted emission measurement is ±2.02 dB.

6.4 Radiated spurious emission test data

6.4.1 Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under 802.11a/n continuously transmitting mode. All of antennas and channels had been verified, the worst condition was operated by 802.11a Tx at channel 36(DACA).

EUT : DSM-750
Worst Case : 802.11a Tx at channel 36 (DACA)

Antenna Polariz. (V/H)	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
V	33.880	QP	12.60	25.80	38.40	40.00	-1.61
V	43.580	QP	12.38	18.57	30.95	40.00	-9.06
V	90.140	QP	7.38	22.31	29.69	43.50	-13.82
V	108.570	QP	7.64	24.85	32.49	43.50	-11.01
V	374.350	QP	15.06	19.25	34.31	46.00	-11.69
V	499.480	QP	18.43	16.51	34.94	46.00	-11.07
H	101.780	QP	9.03	21.28	30.31	43.50	-13.20
H	108.570	QP	9.03	19.84	28.87	43.50	-14.64
H	374.350	QP	15.48	29.34	44.82	46.00	-1.19
H	404.420	QP	16.81	12.65	29.46	46.00	-16.54
H	499.480	QP	18.64	21.85	40.49	46.00	-5.51
H	749.740	QP	22.95	9.16	32.11	46.00	-13.89

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

6.4.2 Measurement results: frequency above 1GHz

EUT : DSM-750
Frequency band : 5180MHz
Test Condition : 802.11a Tx at channel 36 (DACA)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10360.00	PK	V	33.72	48.15	36.42	50.85	54	-3.15
10360.00	PK	H	33.72	48.15	36.06	50.49	54	-3.51

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5200MHz
Test Condition : 802.11a Tx at channel 40 (DACA)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10400.00	PK	V	33.72	48.15	36.87	51.3	54	-2.7
10400.00	PK	H	33.72	48.15	36.55	50.98	54	-3.02

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5240MHz
Test Condition : 802.11a Tx at channel 48 (DACA)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8369.00	PK	V	36.75	46.12	42.48	51.85	54	-2.15
8369.00	PK	H	36.75	46.12	40.77	50.14	54	-3.86

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5260MHz
Test Condition : 802.11a Tx at channel 52 (DACA)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10520.00	PK	V	33.23	49.24	34.38	50.39	54	-3.61
10520.00	PK	H	33.23	49.24	34.23	50.24	54	-3.76

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5300MHz
Test Condition : 802.11a Tx at channel 60 (DACA)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8474.00	PK	V	36.75	46.12	42.2	51.57	54	-2.43
8474.00	PK	H	36.75	46.12	41.13	50.5	54	-3.5

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5320MHz
Test Condition : 802.11a Tx at channel 64 (DACA)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10640.00	PK	V	33.23	49.24	35.22	51.23	54	-2.77
10640.00	PK	H	33.23	49.24	34.34	50.35	54	-3.65

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5180MHz
Test Condition : 802.11a Tx at channel 36 (DACB)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10360.00	PK	V	33.72	48.15	35.7	50.13	54	-3.87
10360.00	PK	H	33.72	48.15	35.34	49.77	54	-4.23

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5200MHz
Test Condition : 802.11a Tx at channel 40 (DACB)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10400.00	PK	V	33.72	48.15	36.23	50.66	54	-3.34
10400.00	PK	H	33.72	48.15	35.91	50.34	54	-3.66

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5240MHz
Test Condition : 802.11a Tx at channel 48 (DACB)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8369.00	PK	V	36.75	46.12	39.06	48.43	54	-5.57
8369.00	PK	H	36.75	46.12	37.35	46.72	54	-7.28

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5260MHz
Test Condition : 802.11a Tx at channel 52 (DACB)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10520.00	PK	V	33.23	49.24	34.08	50.09	54	-3.91
10520.00	PK	H	33.23	49.24	34.11	50.12	54	-3.88

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5300MHz
Test Condition : 802.11a Tx at channel 60 (DACB)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8474.00	PK	V	36.75	46.12	40.06	49.43	54	-4.57
8474.00	PK	H	36.75	46.12	39.99	49.36	54	-4.64

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5320MHz
Test Condition : 802.11a Tx at channel 64 (DACB)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10640.00	PK	V	33.23	49.24	34.97	50.98	54	-3.02
10640.00	PK	H	33.23	49.24	34.44	50.45	54	-3.55

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 40GHz.The data value listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5180MHz
Test Condition : 802.11n 20MHz Tx at channel 36 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8285.00	PK	V	36.75	46.12	42.96	52.33	54	-1.67
8285.00	PK	H	36.75	46.12	40.84	50.21	54	-3.79

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5200MHz
Test Condition : 802.11n 20MHz Tx at channel 40 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10400.00	PK	V	33.72	48.15	41.57	56	74	-18
10400.00	AV	V	33.72	48.15	28.57	43	54	-11
10400.00	PK	H	33.72	48.15	35.69	50.12	54	-3.88

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5240MHz
Test Condition : 802.11n 20MHz Tx at channel 48 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8369.00	PK	V	36.75	46.12	43.5	52.87	54	-1.13
10480.00	PK	V	33.72	48.15	41.57	56	74	-18
10480.00	AV	V	33.72	48.15	30.57	45	54	-9
10480.00	PK	H	33.72	48.15	35.8	50.23	54	-3.77

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5260MHz
Test Condition : 802.11n 20MHz Tx at channel 52 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8411.00	PK	V	36.75	46.12	42.86	52.23	54	-1.77
10520.00	PK	V	33.23	49.24	41.99	58	74	-16
10520.00	AV	V	33.23	49.24	28.99	45	54	-9
10520.00	PK	H	33.23	49.24	35.19	51.2	54	-2.8

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5300MHz
Test Condition : 802.11n 20MHz Tx at channel 60 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10600.00	PK	V	33.23	49.24	35.97	51.98	54	-2.02
10600.00	PK	H	33.23	49.24	35.06	51.07	54	-2.93

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5320MHz
Test Condition : 802.11n 20MHz Tx at channel 64 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10640.00	PK	V	33.23	49.24	35.63	51.64	54	-2.36
10640.00	PK	H	33.23	49.24	35.22	51.23	54	-2.77

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5190MHz
Test Condition : 802.11n 40MHz Tx at channel 38 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8306.00	PK	V	36.75	46.12	42.89	52.26	54	-1.74
8306.00	PK	H	36.75	46.12	41.57	50.94	54	-3.06

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5230MHz
Test Condition : 802.11n 40MHz Tx at channel 46 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10460.00	PK	V	33.72	48.15	36.82	51.25	54	-2.75
10460.00	PK	H	33.72	48.15	36.45	50.88	54	-3.12

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5270MHz
Test Condition : 802.11n 40MHz Tx at channel 54 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
10540.00	PK	V	33.23	49.24	35.01	51.02	54	-2.98
10540.00	PK	H	33.23	49.24	36.05	52.06	54	-1.94

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5310MHz
Test Condition : 802.11n 40MHz Tx at channel 62 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8495.00	PK	V	36.75	46.12	42.55	51.92	54	-2.08
8495.00	PK	H	36.75	46.12	40.87	50.24	54	-3.76

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5510MHz
Test Condition : 802.11n 40MHz Tx at channel 102 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
11020.00	PK	V	33.53	49.96	35.6	52.03	54	-1.97
11020.00	PK	H	33.53	49.96	35.55	51.98	54	-2.02

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5590MHz
Test Condition : 802.11n 40MHz Tx at channel 118 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8975.00	PK	V	36.45	46.94	39.35	49.84	54	-4.16
8975.00	PK	H	36.45	46.94	38.71	49.2	54	-4.8

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

EUT : DSM-750
Frequency band : 5670MHz
Test Condition : 802.11n 40MHz Tx at channel 134 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
9062.00	PK	V	35.82	47.11	40.57	51.86	54	-2.14
9062.00	PK	H	35.82	47.11	38.92	50.21	54	-3.79

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

7. Emission on the band edge §FCC 15.205

The measurement was made to the average and peak field strength of the fundamental frequency. And the spurious emission in the restrict band must also comply with the FCC subpart C 15.209.

7.1 Operating environment

Temperature:	22	℃
Relative Humidity:	56	%
Atmospheric Pressure	1023	hPa

7.2 Test setup & procedure

The output of EUT was connected to spectrum analyzer via a 50ohm cable.

The setting of spectrum analyzer is:

Peak:	RBW = 100kHz ;	VBW = 100kHz
Average:	RBW = 1MHz ;	VBW = 10Hz

7.3 Test Result

DACA: 802.11a

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental(dBuV)	Between Carrier Max. Power and Loca Max. Emission in Restrict Band (dBc)			
36 (lowest)	PK	110.87	47.37	63.50	74	-10.50
	AV	99.38	50.07	49.31	54	-4.69
64 (highest)	PK	108.04	47.02	61.02	74	-12.98
	AV	97.01	50.12	46.89	54	-7.11

Please see the plots as below pages for conducted method test result.

DACA: 802.11n 20MHz

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental(dBuV)	Between Carrier Max. Power and Loca Max. Emission in Restrict Band (dBc)			
36 (lowest)	PK	110.99	46.01	64.98	74	-9.02
	AV	100.87	49.35	51.52	54	-2.48
64 (highest)	PK	110.31	46.69	63.62	74	-10.38
	AV	99.40	49.73	49.67	54	-4.33

Please see the plots as below pages for conducted method test result.

DACA: 802.11n 40MHz

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental(dBuV)	Between Carrier Max. Power and Loca Max. Emission in Restrict Band (dBc)			
38 (lowest)	PK	107.22	39.24	67.98	74	-6.02
	AV	94.96	41.38	53.58	54	-0.42
62 (highest)	PK	106.92	40.28	66.64	74	-7.36
	AV	95.11	42.34	52.77	54	-1.23

Please see the plots as below pages for conducted method test result.

DACB: 802.11a

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental(dBuV)	Between Carrier Max. Power and Loca Max. Emission in Restrict Band (dBc)			
36 (lowest)	PK	108.01	46.74	61.27	74	-12.73
	AV	96.29	50.09	46.20	54	-7.80
64 (highest)	PK	107.30	46.43	60.87	74	-13.13
	AV	95.01	50.10	44.91	54	-9.09

Please see the plots as below pages for conducted method test result.

DACB: 802.11n 20MHz

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental(dBuV)	Between Carrier Max. Power and Loca Max. Emission in Restrict Band (dBc)			
36 (lowest)	PK	110.99	46.15	64.84	74	-9.16
	AV	100.87	49.18	51.69	54	-2.31
64 (highest)	PK	110.31	46.09	64.22	74	-9.78
	AV	99.4	49.64	49.76	54	-4.24

Please see the plots as below pages for conducted method test result.

DACB: 802.11n 40MHz

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental(dBuV)	Between Carrier Max. Power and Loca Max. Emission in Restrict Band (dBc)			
38 (lowest)	PK	107.22	38.16	69.06	74	-4.94
	AV	94.96	41.14	53.82	54	-0.18
62 (highest)	PK	106.92	42.91	64.01	74	-9.99
	AV	95.11	42.92	52.19	54	-1.81

Please see the plots as below pages for conducted method test result.