

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss3 80MHz CH 155 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Aug. 03, 2013	<b>Test Mode</b>	Mode 7 (Ant.4 Panel Antenna / 9.2dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11549.58	51.00	74.00	-23.00	42.36	5.13	38.81	35.30	Peak	100	111 HORIZONTAL
2	11558.85	37.81	54.00	-16.19	29.16	5.13	38.82	35.30	Average	100	111 HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11541.19	50.48	74.00	-23.52	41.84	5.13	38.81	35.30	Peak	100	225 VERTICAL
2	11546.09	37.91	54.00	-16.09	29.27	5.13	38.81	35.30	Average	100	225 VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Aug. 02, 2013	<b>Test Mode</b>	Mode 7 (Ant.4 Panel Antenna / 9.2dBi)

**Horizontal**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11491.83	40.38	54.00	-13.62	31.77	5.11	38.78	35.28	Average	100	122	HORIZONTAL
2	11492.69	52.81	74.00	-21.19	44.20	5.11	38.78	35.28	Peak	100	122	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11485.77	52.53	74.00	-21.47	43.92	5.11	38.78	35.28	Peak	100	230	VERTICAL
2	11495.00	41.04	54.00	-12.96	32.42	5.12	38.78	35.28	Average	100	230	VERTICAL



<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Aug. 02, 2013	<b>Test Mode</b>	Mode 7 (Ant.4 Panel Antenna / 9.2dBi)

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11559.71	50.75	74.00	-23.25	42.10	5.13	38.82	35.30	Peak	100	104	HORIZONTAL
2	11572.07	39.70	54.00	-14.30	31.03	5.14	38.83	35.30	Average	100	104	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11570.34	40.25	54.00	-13.75	31.58	5.14	38.83	35.30	Average	101	176	VERTICAL
2	11570.38	53.02	74.00	-20.98	44.35	5.14	38.83	35.30	Peak	101	176	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Aug. 02, 2013	<b>Test Mode</b>	Mode 7 (Ant.4 Panel Antenna / 9.2dBi)

**Horizontal**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11650.48	38.90	54.00	-15.10	30.18	5.16	38.86	35.30	Average	100	177	HORIZONTAL
2	11653.94	51.33	74.00	-22.67	42.61	5.16	38.86	35.30	Peak	100	177	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11651.35	52.78	74.00	-21.22	44.06	5.16	38.86	35.30	Peak	100	232	VERTICAL
2	11651.39	40.43	54.00	-13.57	31.71	5.16	38.86	35.30	Average	100	232	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 20MHz CH 149 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

**Horizontal**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11486.20	48.76	74.00	-25.24	40.15	5.11	38.78	35.28	Peak	100	315	HORIZONTAL
2	11486.36	36.05	54.00	-17.95	27.44	5.11	38.78	35.28	Average	100	315	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.32	42.74	54.00	-11.26	34.13	5.11	38.78	35.28	Average	100	23	VERTICAL
2	11489.80	55.43	74.00	-18.57	46.82	5.11	38.78	35.28	Peak	100	23	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 20MHz CH 157 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

#### Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11574.36	36.17	54.00	-17.83	27.50	5.14	38.83	35.30	Average	100	298	HORIZONTAL
2	11575.52	48.63	74.00	-25.37	39.96	5.14	38.83	35.30	Peak	100	298	HORIZONTAL

#### Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11569.32	53.28	74.00	-20.72	44.62	5.13	38.83	35.30	Peak	116	27	VERTICAL
2	11569.36	40.98	54.00	-13.02	32.32	5.13	38.83	35.30	Average	116	27	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 20MHz CH 165 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11653.64	48.82	74.00	-25.18	40.10	5.16	38.86	35.30	Peak	100	47 HORIZONTAL
2	11654.64	36.63	54.00	-17.37	27.91	5.16	38.86	35.30	Average	100	47 HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11642.08	53.05	74.00	-20.95	44.33	5.16	38.86	35.30	Peak	100	112 VERTICAL
2	11652.40	40.50	54.00	-13.50	31.78	5.16	38.86	35.30	Average	100	112 VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss3 20MHz CH 149 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

**Horizontal**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11490.20	36.34	54.00	-17.66	27.73	5.11	38.78	35.28	Average	100	332	HORIZONTAL
2	11493.80	49.27	74.00	-24.73	40.65	5.12	38.78	35.28	Peak	100	332	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11490.36	41.19	54.00	-12.81	32.58	5.11	38.78	35.28	Average	115	1	VERTICAL
2	11490.88	55.32	74.00	-18.68	46.71	5.11	38.78	35.28	Peak	115	1	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss3 20MHz CH 157 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11562.24	49.30	74.00	-24.70	40.65	5.13	38.82	35.30	Peak	100	29 HORIZONTAL
2	11569.44	36.04	54.00	-17.96	27.38	5.13	38.83	35.30	Average	100	29 HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11569.72	38.74	54.00	-15.26	30.08	5.13	38.83	35.30	Average	100	208 VERTICAL
2	11570.28	50.52	74.00	-23.48	41.85	5.14	38.83	35.30	Peak	100	208 VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss3 20MHz CH 165 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11649.60	36.53	54.00	-17.47	27.81	5.16	38.86	35.30	Average	100	327	HORIZONTAL
2	11650.84	49.20	74.00	-24.80	40.48	5.16	38.86	35.30	Peak	100	327	HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11642.52	51.60	74.00	-22.40	42.88	5.16	38.86	35.30	Peak	105	214	VERTICAL
2	11649.68	38.92	54.00	-15.08	30.20	5.16	38.86	35.30	Average	105	214	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 40MHz CH 151 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11504.76	35.83	54.00	-18.17	27.20	5.12	38.79	35.28	Average	100	311 HORIZONTAL
2	11509.80	49.22	74.00	-24.78	40.59	5.12	38.79	35.28	Peak	100	311 HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11504.24	50.47	74.00	-23.53	41.84	5.12	38.79	35.28	Peak	101	38 VERTICAL
2	11509.48	38.62	54.00	-15.38	29.99	5.12	38.79	35.28	Average	101	38 VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 40MHz CH 159 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

**Horizontal**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11584.44	49.28	74.00	-24.72	40.61	5.14	38.83	35.30	Peak	100	225 HORIZONTAL
2	11594.04	35.91	54.00	-18.09	27.24	5.14	38.83	35.30	Average	100	225 HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11593.00	38.48	54.00	-15.52	29.81	5.14	38.83	35.30	Average	100	14 VERTICAL
2	11597.96	50.93	74.00	-23.07	42.25	5.15	38.83	35.30	Peak	100	14 VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss3 40MHz CH 151 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11502.64	35.87	54.00	-18.13	27.24	5.12	38.79	35.28	Average	100	25 HORIZONTAL
2	11513.64	48.88	74.00	-25.12	40.25	5.12	38.79	35.28	Peak	100	25 HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11500.88	50.02	74.00	-23.98	41.39	5.12	38.79	35.28	Peak	100	147 VERTICAL
2	11503.52	37.70	54.00	-16.30	29.07	5.12	38.79	35.28	Average	100	147 VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss3 40MHz CH 159 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11582.92	35.87	54.00	-18.13	27.20	5.14	38.83	35.30	Average	100	47	HORIZONTAL
2	11587.88	49.68	74.00	-24.32	41.01	5.14	38.83	35.30	Peak	100	47	HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11580.84	49.87	74.00	-24.13	41.20	5.14	38.83	35.30	Peak	100	229	VERTICAL
2	11588.92	37.08	54.00	-16.92	28.41	5.14	38.83	35.30	Average	100	229	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 80MHz CH 155 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5133.19	44.07	74.00	-29.93	42.03	3.43	33.64	35.03	Peak	100	193	HORIZONTAL
2	5133.31	31.55	54.00	-22.45	29.51	3.43	33.64	35.03	Average	100	193	HORIZONTAL
3	11557.92	35.97	54.00	-18.03	27.32	5.13	38.82	35.30	Average	100	49	HORIZONTAL
4	11558.96	49.02	74.00	-24.98	40.37	5.13	38.82	35.30	Peak	100	49	HORIZONTAL

### Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5133.25	50.94	74.00	-23.06	48.90	3.43	33.64	35.03	Peak	100	90	VERTICAL
2	5133.29	43.34	54.00	-10.66	41.30	3.43	33.64	35.03	Average	100	90	VERTICAL
3	11555.52	49.54	74.00	-24.46	40.89	5.13	38.82	35.30	Peak	100	177	VERTICAL
4	11558.56	36.99	54.00	-17.01	28.34	5.13	38.82	35.30	Average	100	177	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss3 80MHz CH 155 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5133.15	45.48	74.00	-28.52	43.44	3.43	33.64	35.03	Peak	189	307	HORIZONTAL
2	5133.32	34.03	54.00	-19.97	31.99	3.43	33.64	35.03	Average	189	307	HORIZONTAL
3	11544.60	36.02	54.00	-17.98	27.38	5.13	38.81	35.30	Average	100	70	HORIZONTAL
4	11558.04	48.89	74.00	-25.11	40.24	5.13	38.82	35.30	Peak	100	70	HORIZONTAL

### Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5133.29	47.62	54.00	-6.38	45.58	3.43	33.64	35.03	Average	123	104	VERTICAL
2	5133.30	54.73	74.00	-19.27	52.69	3.43	33.64	35.03	Peak	123	104	VERTICAL
3	11543.56	49.20	74.00	-24.80	40.56	5.13	38.81	35.30	Peak	100	287	VERTICAL
4	11558.92	36.63	54.00	-17.37	27.98	5.13	38.82	35.30	Average	100	287	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

**Horizontal**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11486.20	36.64	54.00	-17.36	28.03	5.11	38.78	35.28	Average	100	344	HORIZONTAL
2	11488.20	48.96	74.00	-25.04	40.35	5.11	38.78	35.28	Peak	100	344	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11488.28	41.95	54.00	-12.05	33.34	5.11	38.78	35.28	Average	100	32	VERTICAL
2	11488.56	55.24	74.00	-18.76	46.63	5.11	38.78	35.28	Peak	100	32	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

**Horizontal**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor		cm	deg	
1	11569.48	36.07	54.00	-17.93	27.41	5.13	38.83	35.30	Average	100	50	HORIZONTAL
2	11570.96	49.11	74.00	-24.89	40.44	5.14	38.83	35.30	Peak	100	50	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor		cm	deg	
1	11571.04	40.18	54.00	-13.82	31.51	5.14	38.83	35.30	Average	101	214	VERTICAL
2	11572.76	53.02	74.00	-20.98	44.35	5.14	38.83	35.30	Peak	101	214	VERTICAL

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3
<b>Test Date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 8 (Ant.5 PCB antenna / 5.74dBi)

### Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11644.80	49.13	74.00	-24.87	40.41	5.16	38.86	35.30 Peak	100	330	HORIZONTAL
2	11658.48	36.47	54.00	-17.53	27.75	5.16	38.86	35.30 Average	100	330	HORIZONTAL

### Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11652.52	41.11	54.00	-12.89	32.39	5.16	38.86	35.30 Average	113	14	VERTICAL
2	11653.00	53.53	74.00	-20.47	44.81	5.16	38.86	35.30 Peak	113	14	VERTICAL

### Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

## 4.6. Emissions Measurement

### 4.6.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1 MHz / 10Hz for Average
RBW / VBW (Emission in non-restricted band)	100 kHz / 300 kHz for Peak

### 4.6.3. Test Procedures

For Radiated band edges Measurement:

1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around band edges.

For Radiated Out of Band Emission Measurement:

1. Test was performed in accordance with KDB 558074 D01 v03r01 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10.1 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure
2. The radiated emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.  
Only worst data of each operating mode is presented.

#### **4.6.4. Test Setup Layout**

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.5.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.5.4.

#### **4.6.5. Test Deviation**

There is no deviation with the original standard.

#### **4.6.6. EUT Operation during Test**

The EUT was programmed to be in continuously transmitting mode.

#### 4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS0 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
Test date	Jul. 24~25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1.2dBi)

##### Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2388.24	73.80	74.00	-0.20	43.42	2.21	28.17	0.00	Peak	100	146	VERTICAL
2	2390.00	53.82	54.00	-0.18	23.43	2.22	28.17	0.00	Average	100	146	VERTICAL
3	2408.15	105.96			75.53	2.22	28.21	0.00	Average	100	146	VERTICAL
4	2408.31	116.33			85.90	2.22	28.21	0.00	Peak	100	146	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

##### Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2387.12	64.78	74.00	-9.22	34.40	2.21	28.17	0.00	Peak	100	145	VERTICAL
2	2390.00	47.04	54.00	-6.96	16.65	2.22	28.17	0.00	Average	100	145	VERTICAL
3	2433.47	121.37			90.89	2.23	28.25	0.00	Peak	100	145	VERTICAL
4	2437.96	110.76			80.24	2.23	28.29	0.00	Average	100	145	VERTICAL
5	2483.50	49.36	54.00	-4.64	18.73	2.26	28.37	0.00	Average	100	145	VERTICAL
6	2484.46	64.54	74.00	-9.46	33.91	2.26	28.37	0.00	Peak	100	145	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

##### Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2468.41	114.45			83.82	2.26	28.37	0.00	Peak	100	217	VERTICAL
2	2468.57	103.96			73.33	2.26	28.37	0.00	Average	100	217	VERTICAL
3	2483.50	53.44	54.00	-0.56	22.81	2.26	28.37	0.00	Average	100	217	VERTICAL
4	2483.66	70.57	74.00	-3.43	39.94	2.26	28.37	0.00	Peak	100	217	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS16 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 17, 2013	<b>Test Mode</b>	Mode 1 (Ant.1 Dipole antenna / 1.2dBi)

### Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.36	70.99	74.00	-3.01	40.61	2.21	28.17	0.00	Peak	100	326 VERTICAL
2	2390.00	53.34	54.00	-0.66	22.95	2.22	28.17	0.00	Average	100	326 VERTICAL
3	2406.07	114.71			84.28	2.22	28.21	0.00	Peak	100	326 VERTICAL
4	2410.72	100.49			70.06	2.22	28.21	0.00	Average	100	326 VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	46.54	54.00	-7.46	16.15	2.22	28.17	0.00	Average	100	143 VERTICAL
2	2390.00	56.91	74.00	-17.09	26.52	2.22	28.17	0.00	Peak	100	143 VERTICAL
3	2433.15	117.49			87.01	2.23	28.25	0.00	Peak	100	143 VERTICAL
4	2444.37	104.45			73.92	2.24	28.29	0.00	Average	100	143 VERTICAL
5	2483.50	49.48	54.00	-4.52	18.85	2.26	28.37	0.00	Average	100	143 VERTICAL
6	2485.42	62.43	74.00	-11.57	31.76	2.26	28.41	0.00	Peak	100	143 VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2465.37	102.34			71.77	2.24	28.33	0.00	Average	100	32 VERTICAL
2	2466.17	116.96			86.39	2.24	28.33	0.00	Peak	100	32 VERTICAL
3	2483.50	53.32	54.00	-0.68	22.69	2.26	28.37	0.00	Average	100	32 VERTICAL
4	2484.30	71.43	74.00	-2.57	40.80	2.26	28.37	0.00	Peak	100	32 VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11n MCS0 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 25, 2013	<b>Test Mode</b>	Mode 1 (Ant.1 Dipole antenna / 1.2dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.08	53.74	54.00	-0.26	23.36	2.21	28.17	0.00 Average	100	146	VERTICAL
2	2388.72	70.59	74.00	-3.41	40.21	2.21	28.17	0.00 Peak	100	146	VERTICAL
3	2408.22	101.89			71.46	2.22	28.21	0.00 Average	100	146	VERTICAL
4	2408.22	113.13			82.70	2.22	28.21	0.00 Peak	100	146	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2387.76	65.03	74.00	-8.97	34.65	2.21	28.17	0.00 Peak	100	146	VERTICAL
2	2388.08	45.92	54.00	-8.08	15.54	2.21	28.17	0.00 Average	100	146	VERTICAL
3	2423.54	113.10			82.62	2.23	28.25	0.00 Peak	100	146	VERTICAL
4	2453.03	101.41			70.84	2.24	28.33	0.00 Average	100	146	VERTICAL
5	2483.50	53.68	54.00	-0.32	23.05	2.26	28.37	0.00 Average	100	146	VERTICAL
6	2483.50	67.58	74.00	-6.42	36.95	2.26	28.37	0.00 Peak	100	146	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2468.03	110.86			80.27	2.26	28.33	0.00 Peak	100	76	VERTICAL
2	2468.35	99.79			69.16	2.26	28.37	0.00 Average	100	76	VERTICAL
3	2483.50	53.63	54.00	-0.37	23.00	2.26	28.37	0.00 Average	100	76	VERTICAL
4	2483.50	66.71	74.00	-7.29	36.08	2.26	28.37	0.00 Peak	100	76	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS16 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 17, 2013	<b>Test Mode</b>	Mode 1 (Ant.1 Dipole antenna / 1.2dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2385.51	73.61	74.00	-0.39	43.23	2.21	28.17	0.00	100	350	VERTICAL
2	2389.68	52.09	54.00	-1.91	21.71	2.21	28.17	0.00	100	350	VERTICAL
3	2414.63	112.35			81.92	2.22	28.21	0.00	100	350	VERTICAL
4	2415.91	96.44			66.00	2.23	28.21	0.00	100	350	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	46.67	54.00	-7.33	16.28	2.22	28.17	0.00	100	143	VERTICAL
2	2390.00	58.85	74.00	-15.15	28.46	2.22	28.17	0.00	100	143	VERTICAL
3	2453.35	111.01			80.44	2.24	28.33	0.00	100	143	VERTICAL
4	2454.63	96.73			66.16	2.24	28.33	0.00	100	143	VERTICAL
5	2483.50	53.71	54.00	-0.29	23.08	2.26	28.37	0.00	100	143	VERTICAL
6	2483.50	68.67	74.00	-5.33	38.04	2.26	28.37	0.00	100	143	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2465.78	112.38			81.81	2.24	28.33	0.00	100	33	VERTICAL
2	2466.10	96.90			66.33	2.24	28.33	0.00	100	33	VERTICAL
3	2484.78	53.58	54.00	-0.42	22.95	2.26	28.37	0.00	100	33	VERTICAL
4	2485.10	73.40	74.00	-0.60	42.73	2.26	28.41	0.00	100	33	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang Kenneth Huang	<b>Configurations</b>	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 17~18, 2013	<b>Test Mode</b>	Mode 1 (Ant.1 Dipole antenna / 1.2dBi)

### Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2386.80	61.84	74.00	-12.16	31.46	2.21	28.17	0.00	100	209	VERTICAL
2	2389.36	53.50	54.00	-0.50	23.12	2.21	28.17	0.00	100	209	VERTICAL
3	2409.44	113.38			82.95	2.22	28.21	0.00	100	209	VERTICAL
4	2409.76	109.47			79.04	2.22	28.21	0.00	100	209	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.68	57.45	74.00	-16.55	27.07	2.21	28.17	0.00	151	262	VERTICAL
2	2390.00	46.10	54.00	-7.90	15.71	2.22	28.17	0.00	151	262	VERTICAL
3	2434.44	118.04			87.52	2.23	28.29	0.00	151	262	VERTICAL
4	2435.08	114.27			83.75	2.23	28.29	0.00	151	262	VERTICAL
5	2483.50	46.87	54.00	-7.13	16.24	2.26	28.37	0.00	151	262	VERTICAL
6	2483.82	57.90	74.00	-16.10	27.27	2.26	28.37	0.00	151	262	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2464.56	114.19			83.62	2.24	28.33	0.00	100	267	VERTICAL
2	2464.72	110.35			79.78	2.24	28.33	0.00	100	267	VERTICAL
3	2483.50	47.77	54.00	-6.23	17.14	2.26	28.37	0.00	100	267	VERTICAL
4	2483.50	59.90	74.00	-14.10	29.27	2.26	28.37	0.00	100	267	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 17, 2013	<b>Test Mode</b>	Mode 1 (Ant.1 Dipole antenna / 1.2dBi)

**Channel 1**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.52	73.90	74.00	-0.10	43.52	2.21	28.17	0.00 Peak	100	175	VERTICAL
2	2390.00	52.28	54.00	-1.72	21.89	2.22	28.17	0.00 Average	100	175	VERTICAL
3	2409.12	106.03			75.60	2.22	28.21	0.00 Average	100	175	VERTICAL
4	2409.44	116.43			86.00	2.22	28.21	0.00 Peak	100	175	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	47.92	54.00	-6.08	17.53	2.22	28.17	0.00 Average	100	351	VERTICAL
2	2390.00	63.27	74.00	-10.73	32.88	2.22	28.17	0.00 Peak	100	351	VERTICAL
3	2429.63	120.89			90.41	2.23	28.25	0.00 Peak	100	351	VERTICAL
4	2429.95	110.60			80.12	2.23	28.25	0.00 Average	100	351	VERTICAL
5	2483.50	48.00	54.00	-6.00	17.37	2.26	28.37	0.00 Average	100	351	VERTICAL
6	2483.50	58.55	74.00	-15.45	27.92	2.26	28.37	0.00 Peak	100	351	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2469.05	118.11			87.48	2.26	28.37	0.00 Peak	100	172	VERTICAL
2	2469.21	108.11			77.48	2.26	28.37	0.00 Average	100	172	VERTICAL
3	2483.66	71.82	74.00	-2.18	41.19	2.26	28.37	0.00 Peak	100	172	VERTICAL
4	2484.14	53.52	54.00	-0.48	22.89	2.26	28.37	0.00 Average	100	172	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11n MCS0 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 25, 2013	<b>Test Mode</b>	Mode 2 (Ant.2 Element antenna / 5.2dBi)

**Channel 1**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	53.62	54.00	-0.38	23.23	2.22	28.17	0.00	Average	156	91	HORIZONTAL
2	2390.00	70.22	74.00	-3.78	39.83	2.22	28.17	0.00	Peak	156	91	HORIZONTAL
3	2410.24	117.80			87.37	2.22	28.21	0.00	Peak	156	91	HORIZONTAL
4	2410.56	106.80			76.37	2.22	28.21	0.00	Average	156	91	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2388.40	50.83	54.00	-3.17	20.45	2.21	28.17	0.00	Average	148	272	HORIZONTAL
2	2388.72	69.98	74.00	-4.02	39.60	2.21	28.17	0.00	Peak	148	272	HORIZONTAL
3	2428.67	122.89			92.41	2.23	28.25	0.00	Peak	148	272	HORIZONTAL
4	2433.47	112.41			81.93	2.23	28.25	0.00	Average	148	272	HORIZONTAL
5	2483.50	51.82	54.00	-2.18	21.18	2.26	28.38	0.00	Average	148	272	HORIZONTAL
6	2484.46	67.15	74.00	-6.85	36.51	2.26	28.38	0.00	Peak	148	272	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2467.61	116.97			86.38	2.26	28.33	0.00	Peak	188	271	HORIZONTAL
2	2467.93	106.25			75.66	2.26	28.33	0.00	Average	188	271	HORIZONTAL
3	2483.50	53.78	54.00	-0.22	23.14	2.26	28.38	0.00	Average	188	271	HORIZONTAL
4	2483.50	71.78	74.00	-2.22	41.14	2.26	28.38	0.00	Peak	188	271	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS16 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 15, 2013	<b>Test Mode</b>	Mode 2 (Ant.2 Element antenna / 5.2dBi)

**Channel 1**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.84	67.52	74.00	-6.48	37.13	2.22	28.17	0.00	Peak	154	276	HORIZONTAL
2	2390.00	53.79	54.00	-0.21	23.40	2.22	28.17	0.00	Average	154	276	HORIZONTAL
3	2407.51	117.73			87.30	2.22	28.21	0.00	Peak	154	276	HORIZONTAL
4	2409.44	102.72			72.29	2.22	28.21	0.00	Average	154	276	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	51.87	54.00	-2.13	21.48	2.22	28.17	0.00	Average	156	274	HORIZONTAL
2	2390.00	68.67	74.00	-5.33	38.28	2.22	28.17	0.00	Peak	156	274	HORIZONTAL
3	2429.95	107.60			77.12	2.23	28.25	0.00	Average	156	274	HORIZONTAL
4	2432.51	122.49			92.01	2.23	28.25	0.00	Peak	156	274	HORIZONTAL
5	2483.50	50.94	54.00	-3.06	20.30	2.26	28.38	0.00	Average	156	274	HORIZONTAL
6	2483.50	64.42	74.00	-9.58	33.78	2.26	28.38	0.00	Peak	156	274	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2468.41	115.80			85.16	2.26	28.38	0.00	Peak	142	277	HORIZONTAL
2	2469.21	102.33			71.69	2.26	28.38	0.00	Average	142	277	HORIZONTAL
3	2483.50	53.66	54.00	-0.34	23.02	2.26	28.38	0.00	Average	142	277	HORIZONTAL
4	2483.98	70.63	74.00	-3.37	39.99	2.26	28.38	0.00	Peak	142	277	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11n MCS0 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 25, 2013	<b>Test Mode</b>	Mode 2 (Ant.2 Element antenna / 5.2dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2387.76	53.56	54.00	-0.44	23.18	2.21	28.17	0.00 Average	165	89	HORIZONTAL
2	2388.40	72.14	74.00	-1.86	41.76	2.21	28.17	0.00 Peak	165	89	HORIZONTAL
3	2407.90	101.40			70.97	2.22	28.21	0.00 Average	165	89	HORIZONTAL
4	2413.03	113.46			83.03	2.22	28.21	0.00 Peak	165	89	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.40	46.26	54.00	-7.74	15.88	2.21	28.17	0.00 Average	158	274	HORIZONTAL
2	2388.40	63.10	74.00	-10.90	32.72	2.21	28.17	0.00 Peak	158	274	HORIZONTAL
3	2423.22	102.80			72.32	2.23	28.25	0.00 Average	158	274	HORIZONTAL
4	2423.22	114.57			84.09	2.23	28.25	0.00 Peak	158	274	HORIZONTAL
5	2483.50	53.83	54.00	-0.17	23.19	2.26	28.38	0.00 Average	158	274	HORIZONTAL
6	2483.50	71.83	74.00	-2.17	41.19	2.26	28.38	0.00 Peak	158	274	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2468.03	100.28			69.69	2.26	28.33	0.00 Average	189	276	HORIZONTAL
2	2468.03	110.87			80.28	2.26	28.33	0.00 Peak	189	276	HORIZONTAL
3	2483.50	53.55	54.00	-0.45	22.91	2.26	28.38	0.00 Average	189	276	HORIZONTAL
4	2483.50	67.23	74.00	-6.77	36.59	2.26	28.38	0.00 Peak	189	276	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS16 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 15, 2013	<b>Test Mode</b>	Mode 2 (Ant.2 Element antenna / 5.2dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.40	53.28	54.00	-0.72	22.90	2.21	28.17	0.00 Average	157	276	HORIZONTAL
2	2388.40	73.72	74.00	-0.28	43.34	2.21	28.17	0.00 Peak	157	276	HORIZONTAL
3	2407.58	113.42			82.99	2.22	28.21	0.00 Peak	157	276	HORIZONTAL
4	2408.22	97.16			66.73	2.22	28.21	0.00 Average	157	276	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2382.31	65.41	74.00	-8.59	35.07	2.21	28.13	0.00 Peak	158	108	HORIZONTAL
2	2390.00	48.18	54.00	-5.82	17.79	2.22	28.17	0.00 Average	158	108	HORIZONTAL
3	2420.33	98.86			68.38	2.23	28.25	0.00 Average	158	108	HORIZONTAL
4	2421.30	115.52			85.04	2.23	28.25	0.00 Peak	158	108	HORIZONTAL
5	2483.50	53.60	54.00	-0.40	22.96	2.26	28.38	0.00 Average	158	108	HORIZONTAL
6	2483.50	67.23	74.00	-6.77	36.59	2.26	28.38	0.00 Peak	158	108	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2469.31	97.10			66.46	2.26	28.38	0.00 Average	140	283	HORIZONTAL
2	2469.63	111.88			81.24	2.26	28.38	0.00 Peak	140	283	HORIZONTAL
3	2483.50	53.93	54.00	-0.07	23.29	2.26	28.38	0.00 Average	140	283	HORIZONTAL
4	2487.03	71.89	74.00	-2.11	41.21	2.26	28.42	0.00 Peak	140	283	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 15, 2013	<b>Test Mode</b>	Mode 2 (Ant.2 Element antenna / 5.2dBi)

**Channel 1**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.04	53.95	54.00	-0.05	23.57	2.21	28.17	0.00	Average	239	268	HORIZONTAL
2	2389.36	62.37	74.00	-11.63	31.99	2.21	28.17	0.00	Peak	239	268	HORIZONTAL
3	2409.44	118.30			87.87	2.22	28.21	0.00	Peak	239	268	HORIZONTAL
4	2409.76	114.37			83.94	2.22	28.21	0.00	Average	239	268	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	47.27	54.00	-6.73	16.88	2.22	28.17	0.00	Average	233	268	HORIZONTAL
2	2390.00	56.97	74.00	-17.03	26.58	2.22	28.17	0.00	Peak	233	268	HORIZONTAL
3	2434.44	120.38			89.86	2.23	28.29	0.00	Peak	233	268	HORIZONTAL
4	2435.08	116.51			85.99	2.23	28.29	0.00	Average	233	268	HORIZONTAL
5	2483.50	48.06	54.00	-5.94	17.42	2.26	28.38	0.00	Average	233	268	HORIZONTAL
6	2483.50	57.78	74.00	-16.22	27.14	2.26	28.38	0.00	Peak	233	268	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2464.56	118.08			87.51	2.24	28.33	0.00	Peak	222	272	HORIZONTAL
2	2465.21	114.41			83.84	2.24	28.33	0.00	Average	222	272	HORIZONTAL
3	2483.50	53.56	54.00	-0.44	22.92	2.26	28.38	0.00	Average	222	272	HORIZONTAL
4	2483.50	61.12	74.00	-12.88	30.48	2.26	28.38	0.00	Peak	222	272	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 15, 2013	<b>Test Mode</b>	Mode 2 (Ant.2 Element antenna / 5.2dBi)

### Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2387.28	73.82	74.00	-0.18	43.44	2.21	28.17	0.00 Peak	151	272	HORIZONTAL
2	2389.04	53.88	54.00	-0.12	23.50	2.21	28.17	0.00 Average	151	272	HORIZONTAL
3	2407.83	119.75			89.32	2.22	28.21	0.00 Peak	151	272	HORIZONTAL
4	2408.31	109.08			78.65	2.22	28.21	0.00 Average	151	272	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	48.79	54.00	-5.21	18.40	2.22	28.17	0.00 Average	152	277	HORIZONTAL
2	2390.00	63.77	74.00	-10.23	33.38	2.22	28.17	0.00 Peak	152	277	HORIZONTAL
3	2431.87	123.30			92.82	2.23	28.25	0.00 Peak	152	277	HORIZONTAL
4	2432.19	112.84			82.36	2.23	28.25	0.00 Average	152	277	HORIZONTAL
5	2483.50	52.34	54.00	-1.66	21.70	2.26	28.38	0.00 Average	152	277	HORIZONTAL
6	2483.50	66.56	74.00	-7.44	35.92	2.26	28.38	0.00 Peak	152	277	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2467.61	109.89			79.30	2.26	28.33	0.00 Average	147	279	HORIZONTAL
2	2467.61	120.47			89.88	2.26	28.33	0.00 Peak	147	279	HORIZONTAL
3	2483.50	53.48	54.00	-0.52	22.84	2.26	28.38	0.00 Average	147	279	HORIZONTAL
4	2483.66	73.58	74.00	-0.42	42.94	2.26	28.38	0.00 Peak	147	279	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11n MCS0 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Aug. 02, 2013	<b>Test Mode</b>	Mode 3 (Ant.4 Panel antenna / 7.1dBi)

**Channel 1**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.84	73.22	74.00	-0.78	42.83	2.22	28.17	0.00	Peak	106	181	HORIZONTAL
2	2390.00	53.76	54.00	-0.24	23.37	2.22	28.17	0.00	Average	106	181	HORIZONTAL
3	2407.99	102.55			72.12	2.22	28.21	0.00	Average	106	181	HORIZONTAL
4	2408.47	114.79			84.36	2.22	28.21	0.00	Peak	106	181	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	47.09	54.00	-6.91	16.70	2.22	28.17	0.00	Average	103	186	HORIZONTAL
2	2390.00	59.05	74.00	-14.95	28.66	2.22	28.17	0.00	Peak	103	186	HORIZONTAL
3	2429.31	107.80			77.32	2.23	28.25	0.00	Average	103	186	HORIZONTAL
4	2431.23	118.92			88.44	2.23	28.25	0.00	Peak	103	186	HORIZONTAL
5	2483.50	50.05	54.00	-3.95	19.41	2.26	28.38	0.00	Average	103	186	HORIZONTAL
6	2483.50	64.02	74.00	-9.98	33.38	2.26	28.38	0.00	Peak	103	186	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2465.21	101.99			71.42	2.24	28.33	0.00	Average	100	175	HORIZONTAL
2	2466.81	114.56			83.97	2.26	28.33	0.00	Peak	100	175	HORIZONTAL
3	2483.50	53.68	54.00	-0.32	23.04	2.26	28.38	0.00	Average	100	175	HORIZONTAL
4	2485.58	71.31	74.00	-2.69	40.63	2.26	28.42	0.00	Peak	100	175	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11n MCS16 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Aug. 03, 2013	<b>Test Mode</b>	Mode 3 (Ant.4 Panel antenna / 7.1dBi)

**Channel 1**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	53.74	54.00	-0.26	23.35	2.22	28.17	0.00	Average	104	183	HORIZONTAL
2	2390.00	71.75	74.00	-2.25	41.36	2.22	28.17	0.00	Peak	104	183	HORIZONTAL
3	2409.12	115.03			84.60	2.22	28.21	0.00	Peak	104	183	HORIZONTAL
4	2410.72	101.58			71.15	2.22	28.21	0.00	Average	104	183	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2387.44	64.04	74.00	-9.96	33.66	2.21	28.17	0.00	Peak	100	176	HORIZONTAL
2	2390.00	45.35	54.00	-8.65	14.96	2.22	28.17	0.00	Average	100	176	HORIZONTAL
3	2444.05	118.80			88.27	2.24	28.29	0.00	Peak	100	176	HORIZONTAL
4	2444.37	105.33			74.80	2.24	28.29	0.00	Average	100	176	HORIZONTAL
5	2483.50	48.85	54.00	-5.15	18.21	2.26	28.38	0.00	Average	100	176	HORIZONTAL
6	2484.46	64.46	74.00	-9.54	33.82	2.26	28.38	0.00	Peak	100	176	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2463.44	114.74			84.17	2.24	28.33	0.00	Peak	100	172	HORIZONTAL
2	2463.60	101.16			70.59	2.24	28.33	0.00	Average	100	172	HORIZONTAL
3	2483.50	53.87	54.00	-0.13	23.23	2.26	28.38	0.00	Average	100	172	HORIZONTAL
4	2483.66	71.32	74.00	-2.68	40.68	2.26	28.38	0.00	Peak	100	172	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11n MCS0 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Aug. 02, 2013	<b>Test Mode</b>	Mode 3 (Ant.4 Panel antenna / 7.1 dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	53.70	54.00	-0.30	23.31	2.22	28.17	0.00	Average	105	176	HORIZONTAL
2	2390.00	65.76	74.00	-8.24	35.37	2.22	28.17	0.00	Peak	105	176	HORIZONTAL
3	2408.22	97.41			66.98	2.22	28.21	0.00	Average	105	176	HORIZONTAL
4	2417.83	109.82			79.34	2.23	28.25	0.00	Peak	105	176	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2388.08	63.33	74.00	-10.67	32.95	2.21	28.17	0.00	Peak	103	183	HORIZONTAL
2	2390.00	47.18	54.00	-6.82	16.79	2.22	28.17	0.00	Average	103	183	HORIZONTAL
3	2453.99	110.42			79.85	2.24	28.33	0.00	Peak	103	183	HORIZONTAL
4	2454.31	98.73			68.16	2.24	28.33	0.00	Average	103	183	HORIZONTAL
5	2483.50	53.62	54.00	-0.38	22.98	2.26	28.38	0.00	Average	103	183	HORIZONTAL
6	2486.06	69.65	74.00	-4.35	38.97	2.26	28.42	0.00	Peak	103	183	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2469.63	98.17			67.53	2.26	28.38	0.00	Average	173	180	HORIZONTAL
2	2469.63	109.62			78.98	2.26	28.38	0.00	Peak	173	180	HORIZONTAL
3	2484.46	53.60	54.00	-0.40	22.96	2.26	28.38	0.00	Average	173	180	HORIZONTAL
4	2484.78	67.42	74.00	-6.58	36.78	2.26	28.38	0.00	Peak	173	180	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11n MCS16 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Aug. 03, 2013	<b>Test Mode</b>	Mode 3 (Ant.4 Panel antenna / 7.1 dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.40	69.51	74.00	-4.49	39.13	2.21	28.17	0.00 Peak	106	186	HORIZONTAL
2	2390.00	53.81	54.00	-0.19	23.42	2.22	28.17	0.00 Average	106	186	HORIZONTAL
3	2408.22	95.89			65.46	2.22	28.21	0.00 Average	106	186	HORIZONTAL
4	2408.86	110.90			80.47	2.22	28.21	0.00 Peak	106	186	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.04	64.16	74.00	-9.84	33.78	2.21	28.17	0.00 Peak	104	183	HORIZONTAL
2	2390.00	47.59	54.00	-6.41	17.20	2.22	28.17	0.00 Average	104	183	HORIZONTAL
3	2445.33	110.81			80.28	2.24	28.29	0.00 Peak	104	183	HORIZONTAL
4	2454.31	96.75			66.18	2.24	28.33	0.00 Average	104	183	HORIZONTAL
5	2483.50	53.91	54.00	-0.09	23.27	2.26	28.38	0.00 Average	104	183	HORIZONTAL
6	2483.50	69.97	74.00	-4.03	39.33	2.26	28.38	0.00 Peak	104	183	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2465.46	94.82			64.25	2.24	28.33	0.00 Average	100	177	HORIZONTAL
2	2466.74	108.97			78.38	2.26	28.33	0.00 Peak	100	177	HORIZONTAL
3	2483.50	53.92	54.00	-0.08	23.28	2.26	28.38	0.00 Average	100	177	HORIZONTAL
4	2484.78	69.46	74.00	-4.54	38.82	2.26	28.38	0.00 Peak	100	177	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Aug. 02, 2013	<b>Test Mode</b>	Mode 3 (Ant.4 Panel antenna / 7.1dBi)

### Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.20	40.67	54.00	-13.33	10.29	2.21	28.17	0.00	Average	104	177	HORIZONTAL
2	2390.00	49.52	74.00	-24.48	19.13	2.22	28.17	0.00	Peak	104	177	HORIZONTAL
3	2409.44	110.97			80.54	2.22	28.21	0.00	Peak	104	177	HORIZONTAL
4	2410.24	107.07			76.64	2.22	28.21	0.00	Average	104	177	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	39.43	54.00	-14.57	9.04	2.22	28.17	0.00	Average	105	173	HORIZONTAL
2	2390.00	50.01	74.00	-23.99	19.62	2.22	28.17	0.00	Peak	105	173	HORIZONTAL
3	2439.56	110.24			79.72	2.23	28.29	0.00	Peak	105	173	HORIZONTAL
4	2439.89	106.51			75.99	2.23	28.29	0.00	Average	105	173	HORIZONTAL
5	2483.50	41.51	54.00	-12.49	10.87	2.26	28.38	0.00	Average	105	173	HORIZONTAL
6	2483.50	50.99	74.00	-23.01	20.35	2.26	28.38	0.00	Peak	105	173	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2464.56	110.00			79.43	2.24	28.33	0.00	Peak	169	180	VERTICAL
2	2464.72	106.15			75.58	2.24	28.33	0.00	Average	169	180	VERTICAL
3	2493.11	42.61	54.00	-11.39	11.93	2.27	28.41	0.00	Average	169	180	VERTICAL
4	2493.12	51.52	74.00	-22.48	20.84	2.27	28.41	0.00	Peak	169	180	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Jim Huang	<b>Configurations</b>	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Aug. 02, 2013	<b>Test Mode</b>	Mode 3 (Ant.4 Panel antenna / 7.1 dBi)

### Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.36	73.34	74.00	-0.66	42.96	2.21	28.17	0.00	Peak	107	184	HORIZONTAL
2	2390.00	53.62	54.00	-0.38	23.23	2.22	28.17	0.00	Average	107	184	HORIZONTAL
3	2408.47	104.12			73.69	2.22	28.21	0.00	Average	107	184	HORIZONTAL
4	2408.96	115.67			85.24	2.22	28.21	0.00	Peak	107	184	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	43.57	54.00	-10.43	13.18	2.22	28.17	0.00	Average	103	185	HORIZONTAL
2	2390.00	60.58	74.00	-13.42	30.19	2.22	28.17	0.00	Peak	103	185	HORIZONTAL
3	2429.63	107.18			76.70	2.23	28.25	0.00	Average	103	185	HORIZONTAL
4	2432.83	117.97			87.49	2.23	28.25	0.00	Peak	103	185	HORIZONTAL
5	2483.50	48.13	54.00	-5.87	17.49	2.26	28.38	0.00	Average	103	185	HORIZONTAL
6	2485.74	65.06	74.00	-8.94	34.38	2.26	28.42	0.00	Peak	103	185	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2464.24	103.52			72.95	2.24	28.33	0.00	Average	101	178	HORIZONTAL
2	2466.33	115.43			84.84	2.26	28.33	0.00	Peak	101	178	HORIZONTAL
3	2483.50	53.82	54.00	-0.18	23.18	2.26	28.38	0.00	Average	101	178	HORIZONTAL
4	2483.50	71.95	74.00	-2.05	41.31	2.26	28.38	0.00	Peak	101	178	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS0 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 4 (Ant.5 PCB antenna / 4.94dBi)

### Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2388.20	51.27	54.00	-2.73	20.89	2.21	28.17	0.00	Average	100	20	HORIZONTAL
2	2388.40	73.88	74.00	-0.12	43.50	2.21	28.17	0.00	Peak	100	20	HORIZONTAL
3	2407.80	113.30			82.87	2.22	28.21	0.00	Peak	100	20	HORIZONTAL
4	2408.20	103.17			72.74	2.22	28.21	0.00	Average	100	20	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2386.40	68.18	74.00	-5.82	37.80	2.21	28.17	0.00	Peak	100	304	VERTICAL
2	2390.00	51.90	54.00	-2.10	21.51	2.22	28.17	0.00	Average	100	304	VERTICAL
3	2435.00	107.54			77.02	2.23	28.29	0.00	Average	100	304	VERTICAL
4	2435.00	118.64			88.12	2.23	28.29	0.00	Peak	100	304	VERTICAL
5	2483.50	67.16	74.00	-6.84	36.53	2.26	28.37	0.00	Peak	100	304	VERTICAL
6	2484.30	49.82	54.00	-4.18	19.19	2.26	28.37	0.00	Average	100	304	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2464.60	101.71			71.14	2.24	28.33	0.00	Average	100	304	VERTICAL
2	2465.20	112.32			81.75	2.24	28.33	0.00	Peak	100	304	VERTICAL
3	2483.90	51.96	54.00	-2.04	21.33	2.26	28.37	0.00	Average	100	304	VERTICAL
4	2484.30	73.88	74.00	-0.12	43.25	2.26	28.37	0.00	Peak	100	304	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS16 20MHz CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 4 (Ant.5 PCB antenna / 4.94dBi)

**Channel 1**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.80	73.15	74.00	-0.85	42.76	2.22	28.17	0.00	Peak	100	22	HORIZONTAL
2	2390.00	53.71	54.00	-0.29	23.32	2.22	28.17	0.00	Average	100	22	HORIZONTAL
3	2409.40	99.65			69.22	2.22	28.21	0.00	Average	100	22	HORIZONTAL
4	2411.00	113.26			82.83	2.22	28.21	0.00	Peak	100	22	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.60	65.05	74.00	-8.95	34.67	2.21	28.17	0.00	Peak	100	19	HORIZONTAL
2	2390.00	50.01	54.00	-3.99	19.62	2.22	28.17	0.00	Average	100	19	HORIZONTAL
3	2429.00	103.31			72.83	2.23	28.25	0.00	Average	100	19	HORIZONTAL
4	2433.00	117.22			86.74	2.23	28.25	0.00	Peak	100	19	HORIZONTAL
5	2483.50	46.99	54.00	-7.01	16.35	2.26	28.38	0.00	Average	100	19	HORIZONTAL
6	2483.50	59.66	74.00	-14.34	29.02	2.26	28.38	0.00	Peak	100	19	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2468.60	112.04			81.41	2.26	28.37	0.00	Peak	100	333	VERTICAL
2	2469.40	98.50			67.87	2.26	28.37	0.00	Average	100	333	VERTICAL
3	2483.50	53.94	54.00	-0.06	23.31	2.26	28.37	0.00	Average	100	333	VERTICAL
4	2483.50	71.89	74.00	-2.11	41.26	2.26	28.37	0.00	Peak	100	333	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS0 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 4 (Ant.5 PCB antenna / 4.94dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.20	53.37	54.00	-0.63	22.99	2.21	28.17	0.00	Average	100	305 VERTICAL
2	2389.60	72.85	74.00	-1.15	42.47	2.21	28.17	0.00	Peak	100	305 VERTICAL
3	2409.20	111.55			81.12	2.22	28.21	0.00	Peak	100	305 VERTICAL
4	2409.60	100.54			70.11	2.22	28.21	0.00	Average	100	305 VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	48.89	54.00	-5.11	18.50	2.22	28.17	0.00	Average	100	306 VERTICAL
2	2390.00	68.68	74.00	-5.32	38.29	2.22	28.17	0.00	Peak	100	306 VERTICAL
3	2419.40	99.39			68.91	2.23	28.25	0.00	Average	100	306 VERTICAL
4	2419.80	110.33			79.85	2.23	28.25	0.00	Peak	100	306 VERTICAL
5	2483.50	73.50	74.00	-0.50	42.87	2.26	28.37	0.00	Peak	100	306 VERTICAL
6	2484.70	53.69	54.00	-0.31	23.06	2.26	28.37	0.00	Average	100	306 VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2464.40	107.97			77.40	2.24	28.33	0.00	Peak	100	306 VERTICAL
2	2469.60	97.17			66.54	2.26	28.37	0.00	Average	100	306 VERTICAL
3	2483.90	68.93	74.00	-5.07	38.30	2.26	28.37	0.00	Peak	100	306 VERTICAL
4	2484.30	53.35	54.00	-0.65	22.72	2.26	28.37	0.00	Average	100	306 VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11n MCS16 40MHz CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 4 (Ant.5 PCB antenna / 4.94dBi)

### Channel 3

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.40	73.69	74.00	-0.31	43.31	2.21	28.17	0.00	100	19	HORIZONTAL
2	2389.20	48.42	54.00	-5.58	18.04	2.21	28.17	0.00	100	19	HORIZONTAL
3	2408.00	110.25			79.82	2.22	28.21	0.00	100	19	HORIZONTAL
4	2409.20	93.55			63.12	2.22	28.21	0.00	100	19	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.00	64.32	74.00	-9.68	33.94	2.21	28.17	0.00	100	334	VERTICAL
2	2389.60	47.55	54.00	-6.45	17.17	2.21	28.17	0.00	100	334	VERTICAL
3	2425.40	109.46			78.98	2.23	28.25	0.00	100	334	VERTICAL
4	2454.60	94.69			64.12	2.24	28.33	0.00	100	334	VERTICAL
5	2483.50	53.40	54.00	-0.60	22.77	2.26	28.37	0.00	100	334	VERTICAL
6	2485.50	73.50	74.00	-0.50	42.83	2.26	28.41	0.00	100	334	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 9

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2465.60	108.00			77.43	2.24	28.33	0.00	100	332	VERTICAL
2	2469.20	93.33			62.70	2.26	28.37	0.00	100	332	VERTICAL
3	2483.50	53.70	54.00	-0.30	23.07	2.26	28.37	0.00	100	332	VERTICAL
4	2483.50	73.83	74.00	-0.17	43.20	2.26	28.37	0.00	100	332	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 4 (Ant.5 PCB antenna / 4.94dBi)

### Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2389.40	53.32	54.00	-0.68	22.94	2.21	28.17	0.00 Average	100	176	VERTICAL
2	2389.40	61.67	74.00	-12.33	31.29	2.21	28.17	0.00 Peak	100	176	VERTICAL
3	2409.40	113.04			82.61	2.22	28.21	0.00 Peak	100	176	VERTICAL
4	2410.20	109.00			78.57	2.22	28.21	0.00 Average	100	176	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	43.58	54.00	-10.42	13.19	2.22	28.17	0.00 Average	100	152	HORIZONTAL
2	2390.00	53.52	74.00	-20.48	23.13	2.22	28.17	0.00 Peak	100	152	HORIZONTAL
3	2434.60	111.72			81.20	2.23	28.29	0.00 Peak	100	152	HORIZONTAL
4	2435.00	107.61			77.09	2.23	28.29	0.00 Average	100	152	HORIZONTAL
5	2483.50	44.18	54.00	-9.82	13.54	2.26	28.38	0.00 Average	100	152	HORIZONTAL
6	2483.50	53.86	74.00	-20.14	23.22	2.26	28.38	0.00 Peak	100	152	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2464.60	113.61			83.04	2.24	28.33	0.00 Peak	100	175	VERTICAL
2	2464.80	109.58			79.01	2.24	28.33	0.00 Average	100	175	VERTICAL
3	2483.50	49.21	54.00	-4.79	18.58	2.26	28.37	0.00 Average	100	175	VERTICAL
4	2483.50	58.19	74.00	-15.81	27.56	2.26	28.37	0.00 Peak	100	175	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

<b>Temperature</b>	24.5°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3
<b>Test date</b>	Jul. 26, 2013	<b>Test Mode</b>	Mode 4 (Ant.5 PCB antenna / 4.94dBi)

### Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2388.60	50.29	54.00	-3.71	19.91	2.21	28.17	0.00	Average	100	20 HORIZONTAL
2	2389.20	73.60	74.00	-0.40	43.22	2.21	28.17	0.00	Peak	100	20 HORIZONTAL
3	2407.80	114.21			83.78	2.22	28.21	0.00	Peak	100	20 HORIZONTAL
4	2408.40	103.30			72.87	2.22	28.21	0.00	Average	100	20 HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

### Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	52.33	54.00	-1.67	21.94	2.22	28.17	0.00	Average	100	304 VERTICAL
2	2390.00	69.46	74.00	-4.54	39.07	2.22	28.17	0.00	Peak	100	304 VERTICAL
3	2429.40	107.62			77.14	2.23	28.25	0.00	Average	100	304 VERTICAL
4	2439.80	118.34			87.82	2.23	28.29	0.00	Peak	100	304 VERTICAL
5	2483.50	65.54	74.00	-8.46	34.91	2.26	28.37	0.00	Peak	100	304 VERTICAL
6	2484.30	49.75	54.00	-4.25	19.12	2.26	28.37	0.00	Average	100	304 VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

### Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	Remark	A/Pos	T/Pos	PoI/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2468.40	113.48			82.85	2.26	28.37	0.00	Peak	100	336 VERTICAL
2	2468.60	102.81			72.18	2.26	28.37	0.00	Average	100	336 VERTICAL
3	2483.50	52.09	54.00	-1.91	21.46	2.26	28.37	0.00	Average	100	336 VERTICAL
4	2483.90	73.53	74.00	-0.47	42.90	2.26	28.37	0.00	Peak	100	336 VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

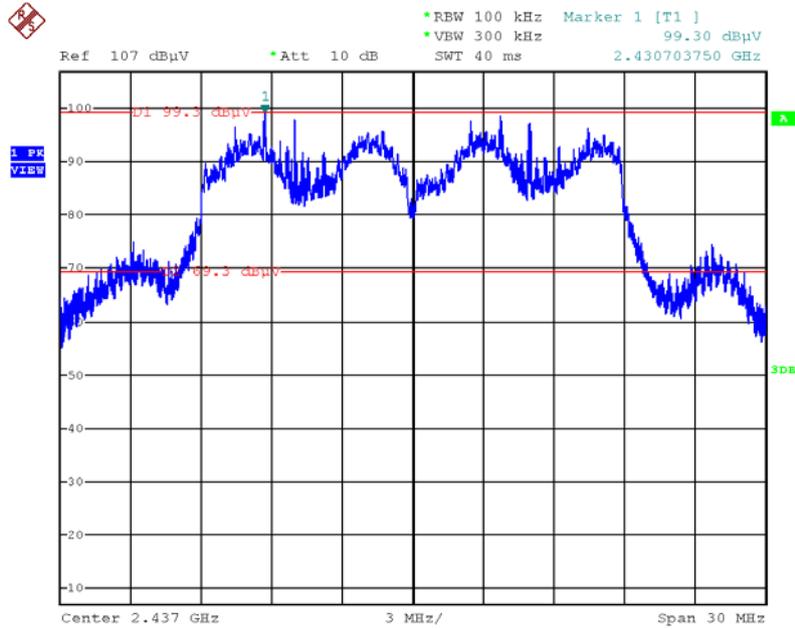
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Emission not in Restricted Band

For 2.4GHz Band:

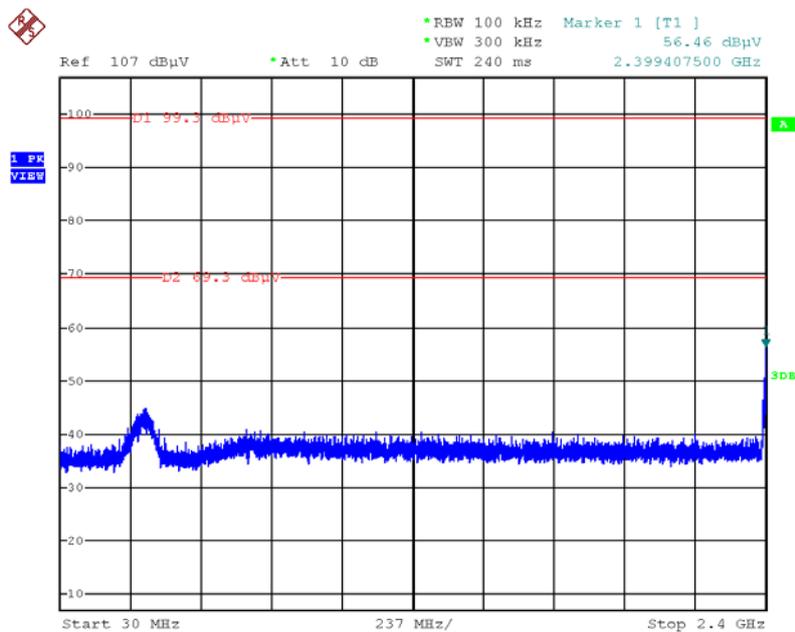
Test Mode: Mode 1 (Ant.1 Dipole antenna / 1.2dBi)

Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level



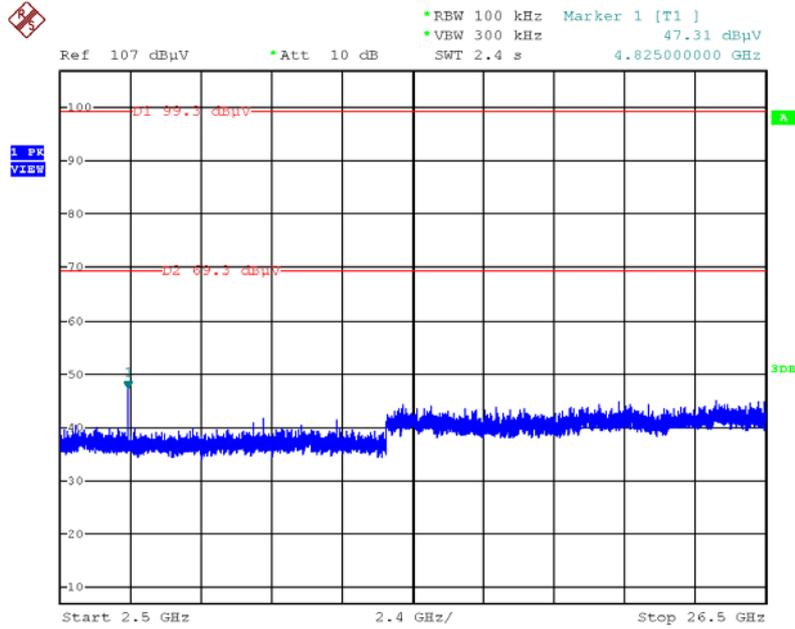
Date: 25.JUL.2013 18:30:29

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 30MHz~2400MHz (down 30dBc)



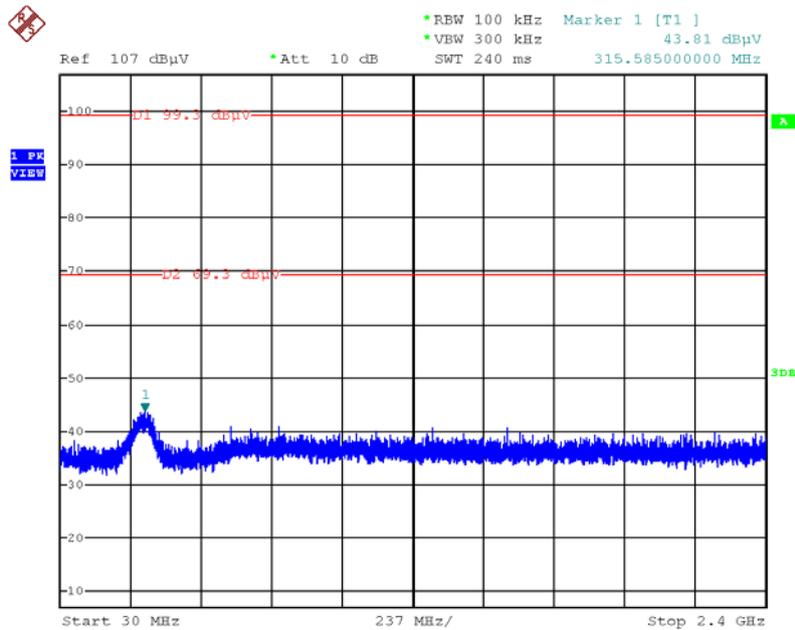
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Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 2500MHz~26500MHz (down 30dBc)



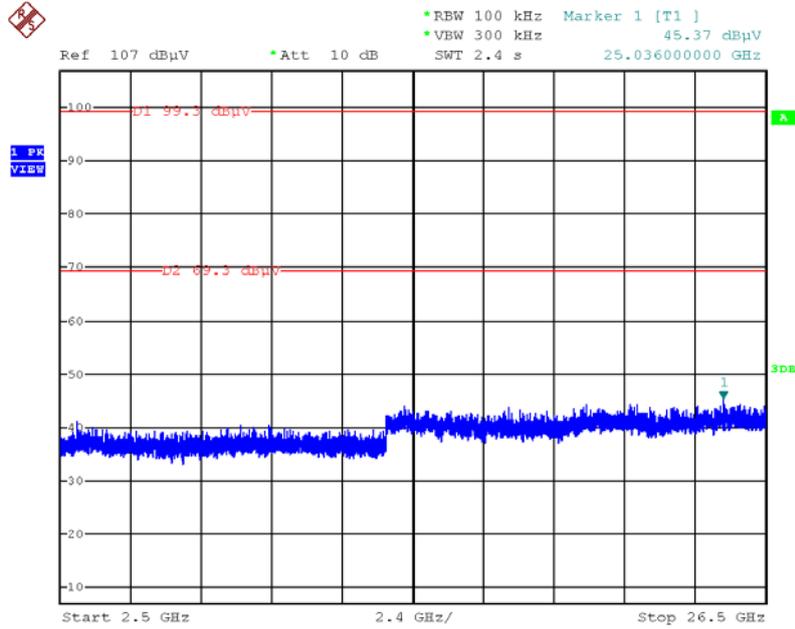
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Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 30MHz~2400MHz (down 30dBc)



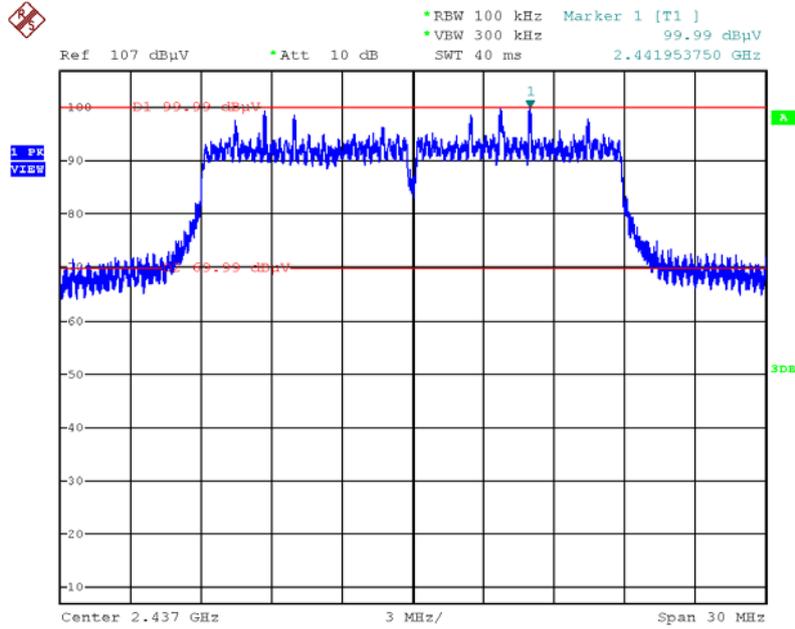
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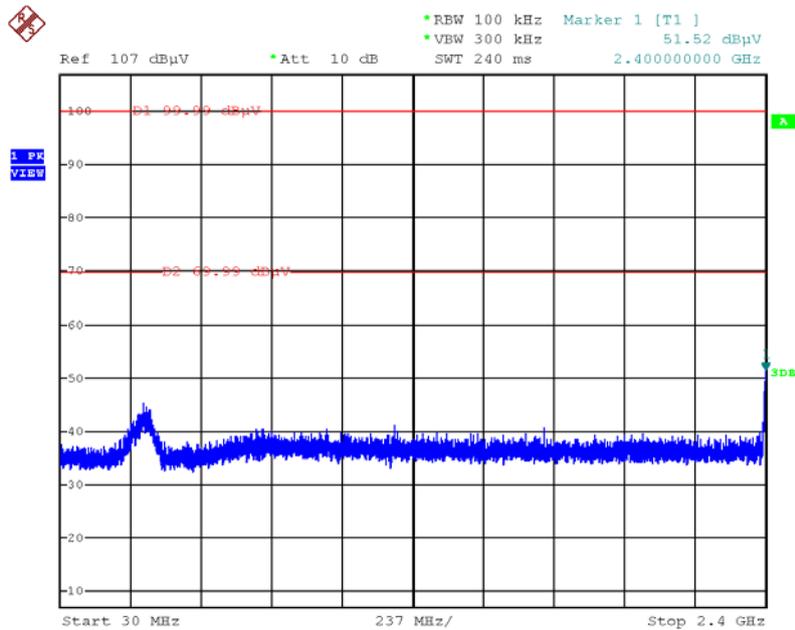
Date: 25.JUL.2013 18:34:16

Plot on Configuration IEEE 802.11n MCS16 20MHz / Reference Level



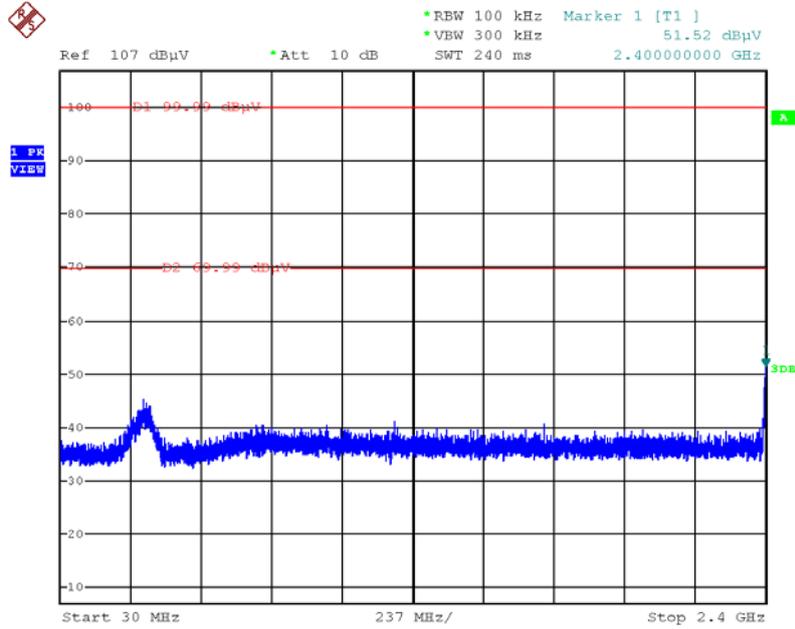
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Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 1 / 30MHz~2400MHz (down 30dBc)



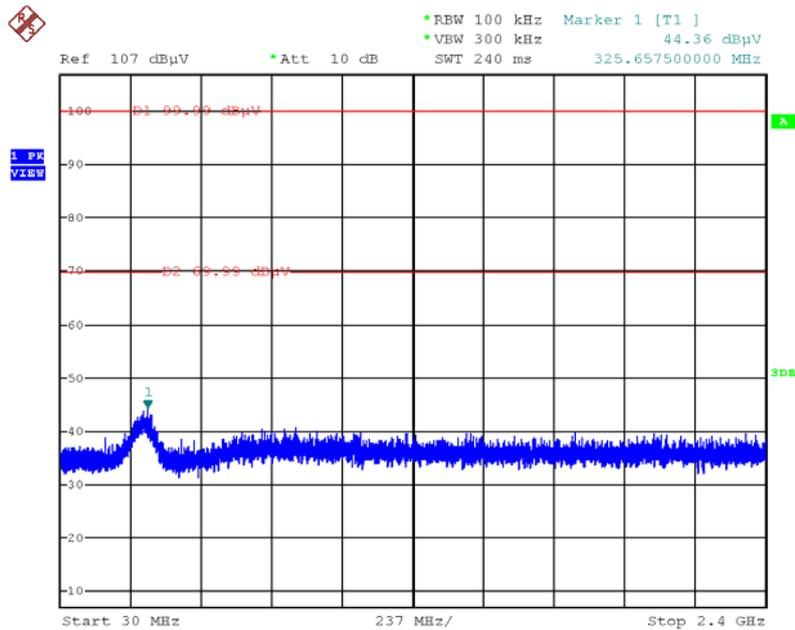
Date: 19.JUL.2013 00:51:00

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 1 / 2500MHz~26500MHz (down 30dBc)



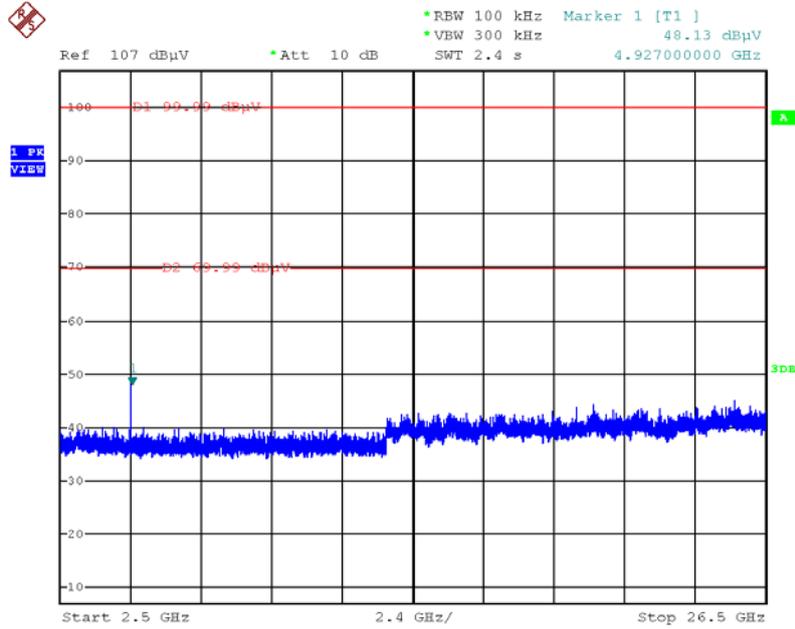
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Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 30MHz~2400MHz (down 30dBc)



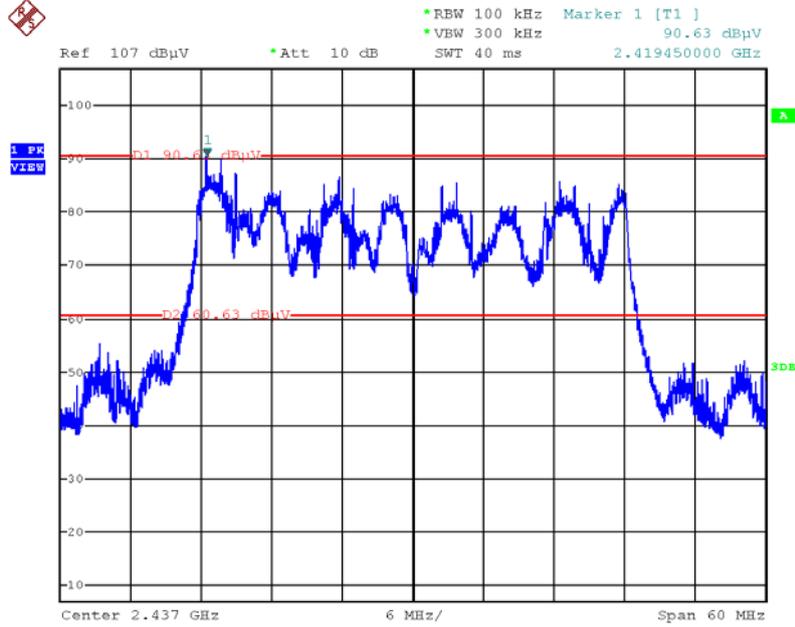
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Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 2500MHz~26500MHz (down 30dBc)



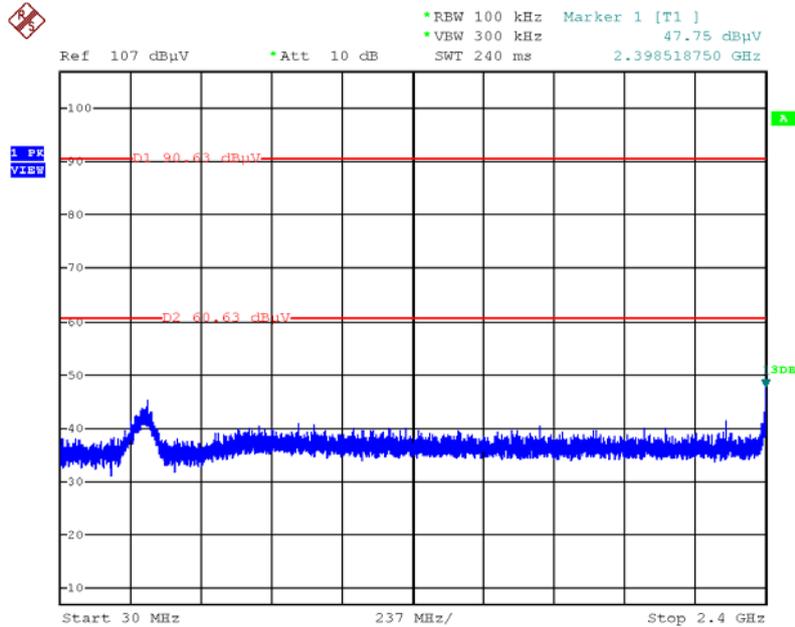
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Plot on Configuration IEEE 802.11n MCS0 40MHz / Reference Level



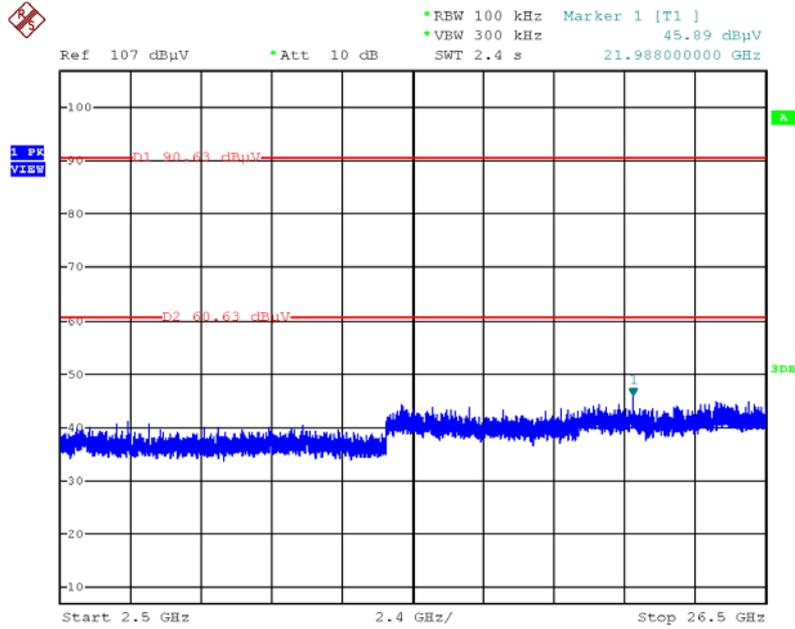
Date: 25.JUL.2013 18:37:13

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 30MHz~2400MHz (down 30dBc)



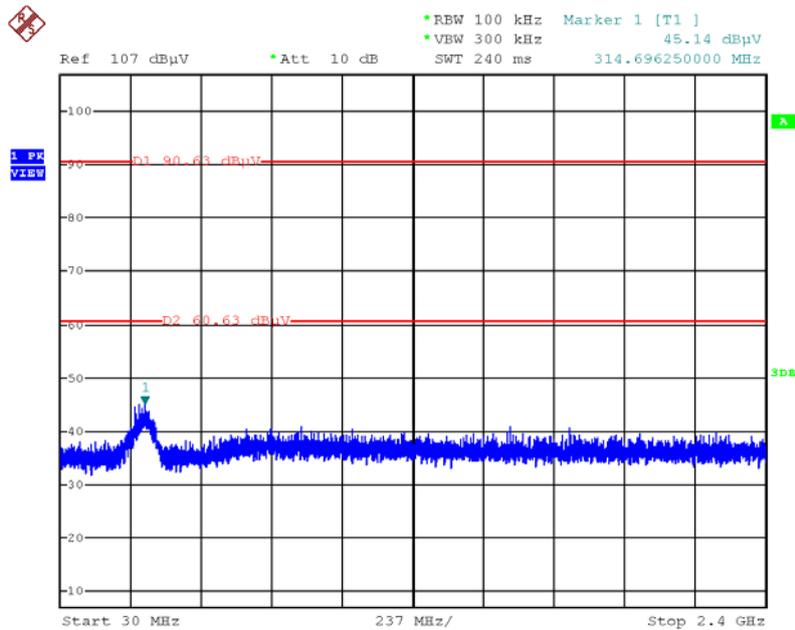
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Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 2500MHz~26500MHz (down 30dBc)



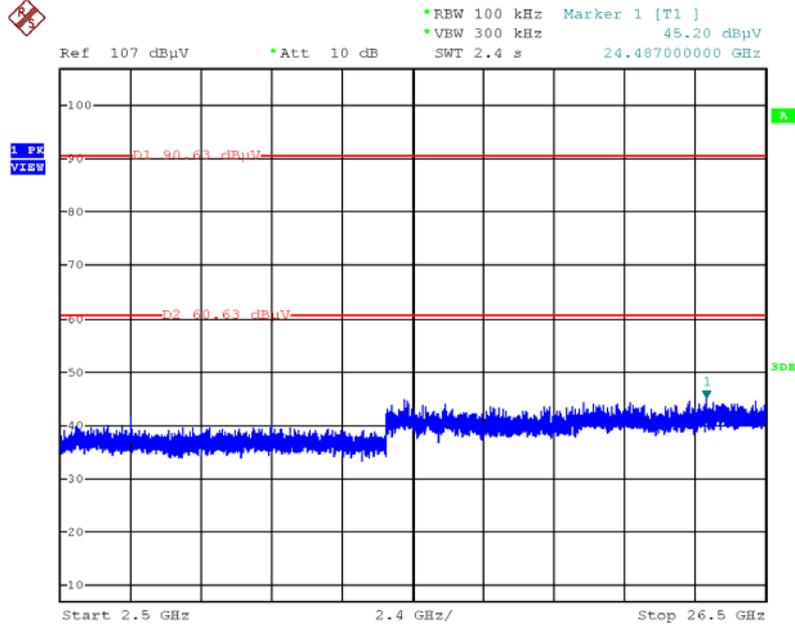
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Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 30MHz~2400MHz (down 30dBc)



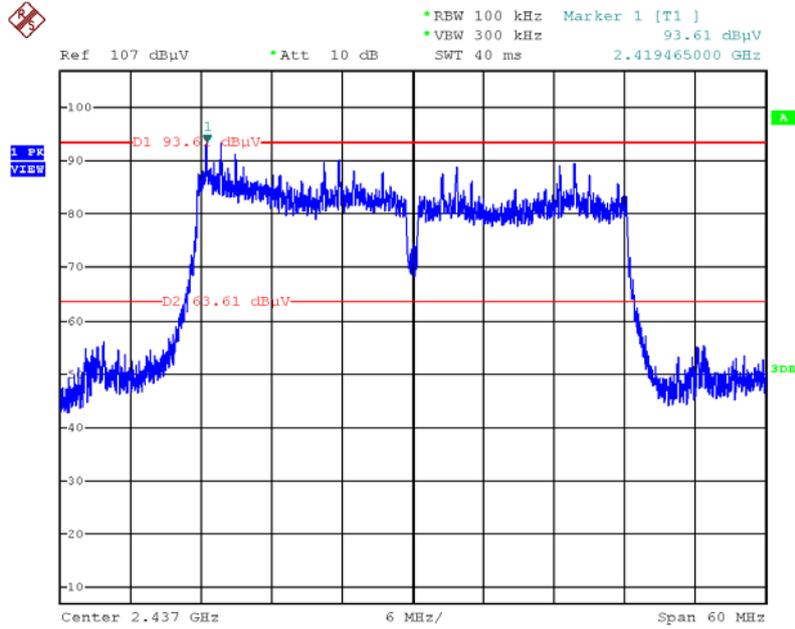
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Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 2500MHz~26500MHz (down 30dBc)



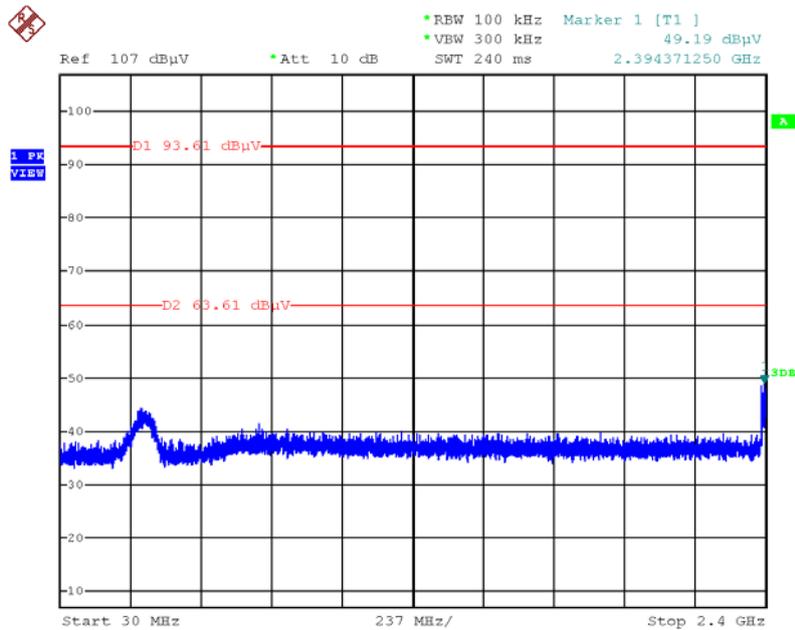
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Plot on Configuration IEEE 802.11n MCS16 40MHz / Reference Level



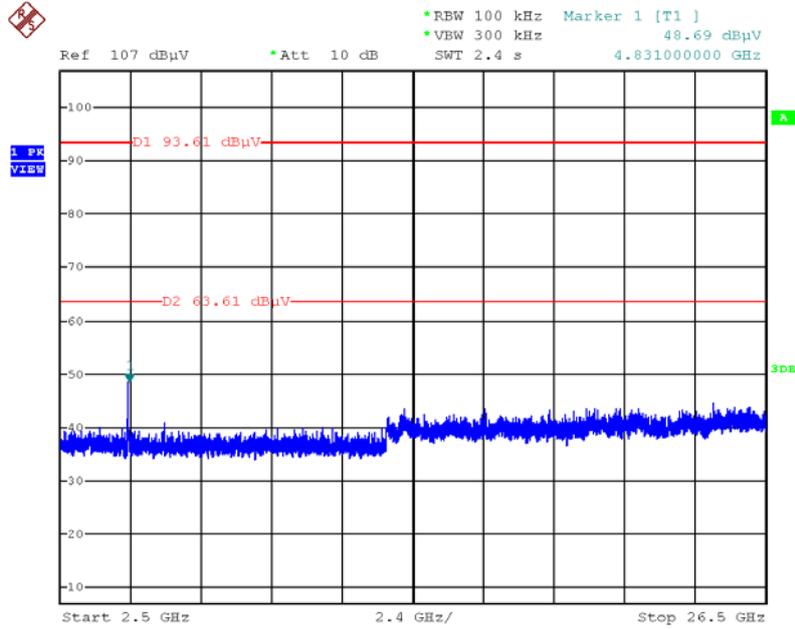
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Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 30MHz~2400MHz (down 30dBc)



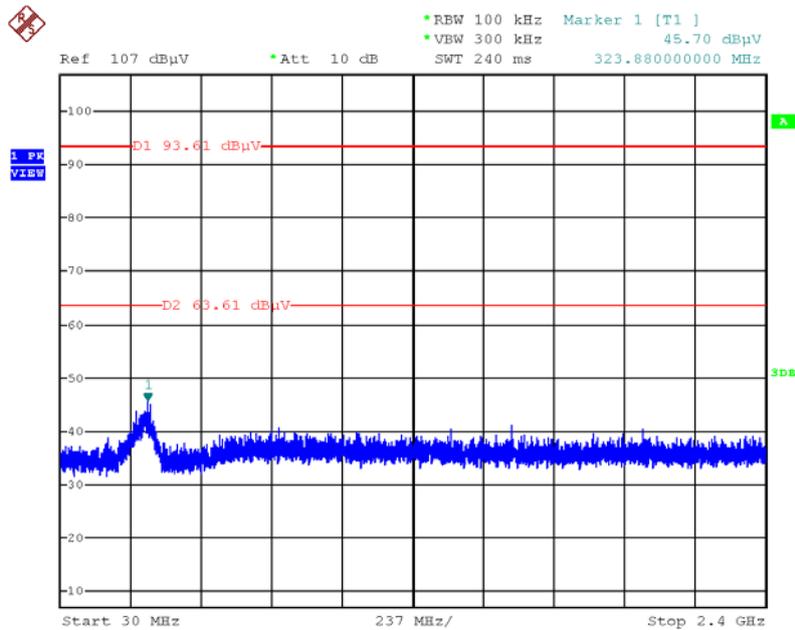
Date: 19.JUL.2013 01:00:45

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 2500MHz~26500MHz (down 30dBc)



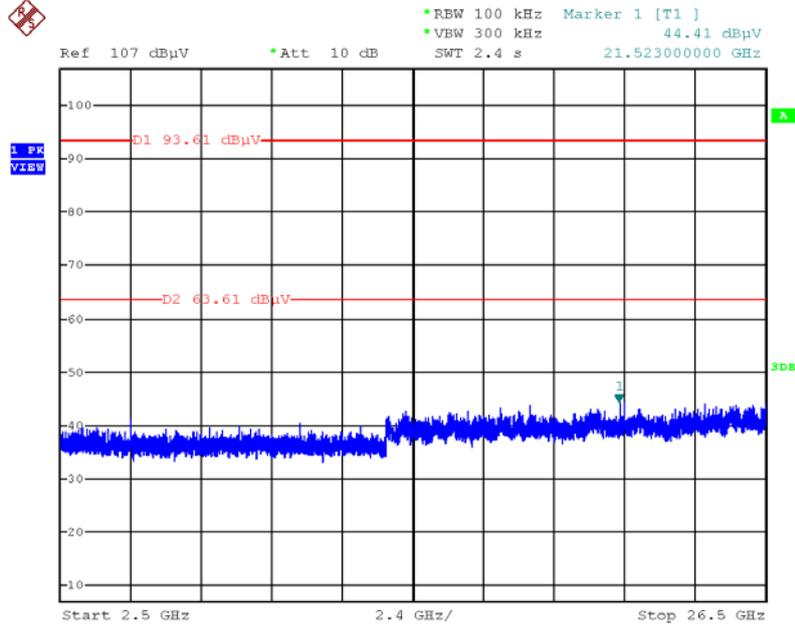
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Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 9 / 30MHz~2400MHz (down 30dBc)



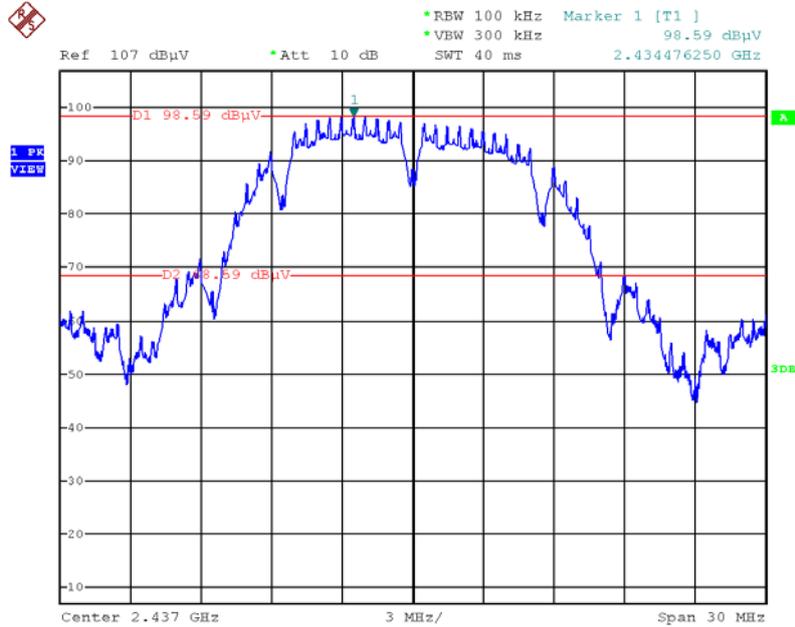
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Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 9 / 2500MHz~26500MHz (down 30dBc)



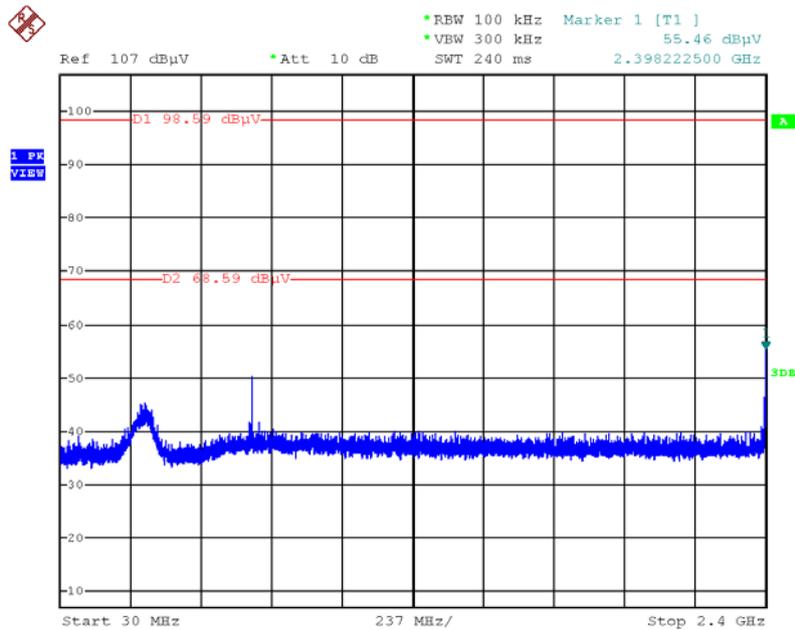
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Plot on Configuration IEEE 802.11b / Reference Level



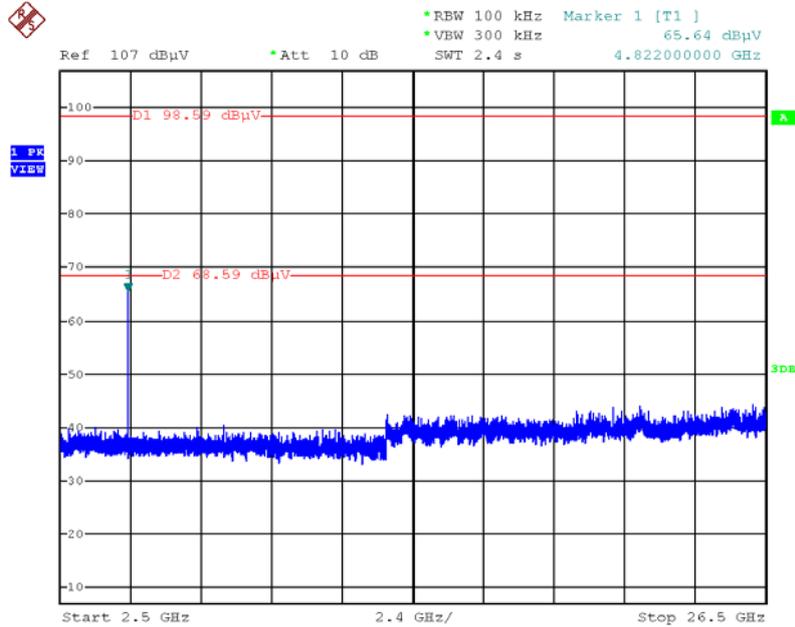
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Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



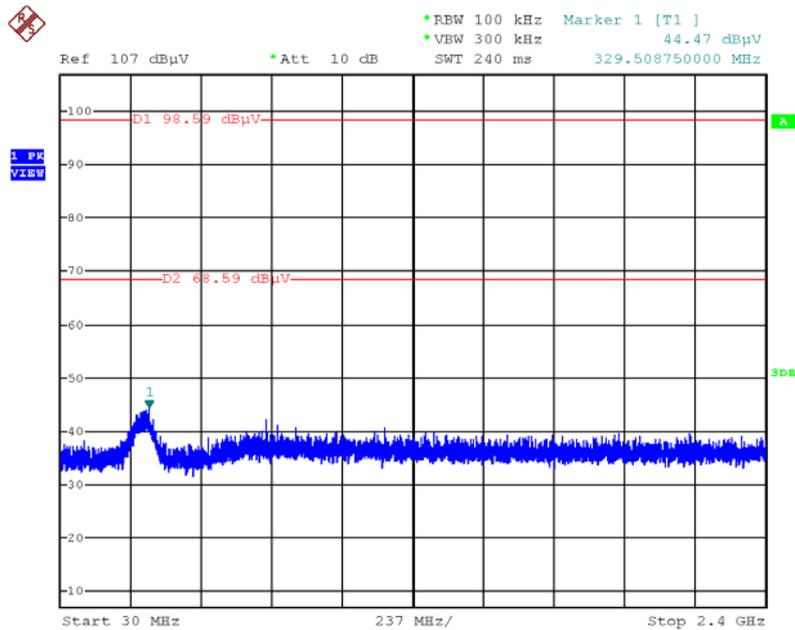
Date: 19.JUL.2013 00:34:30

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



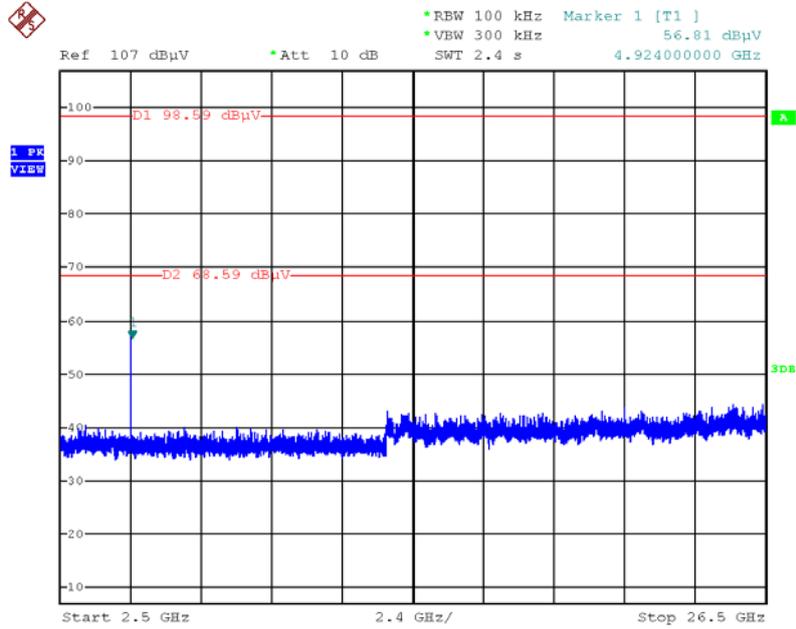
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Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



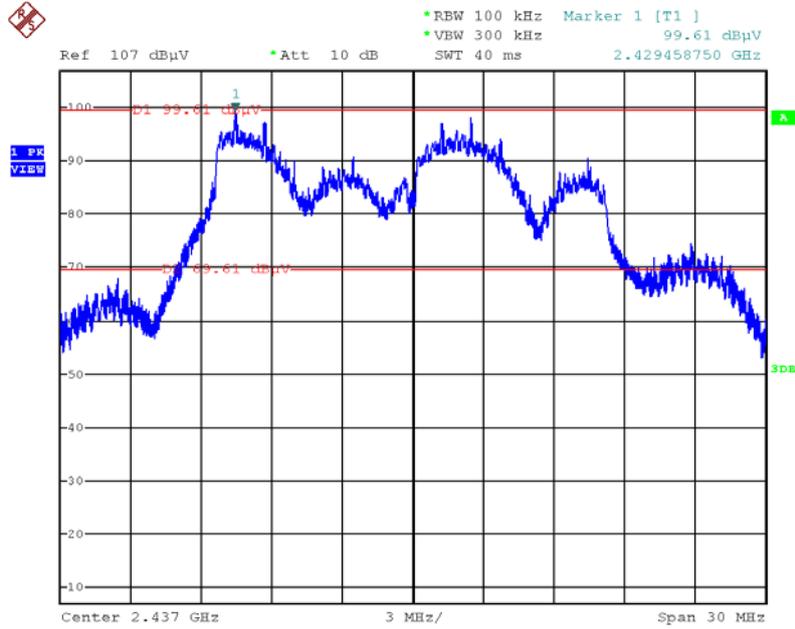
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Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



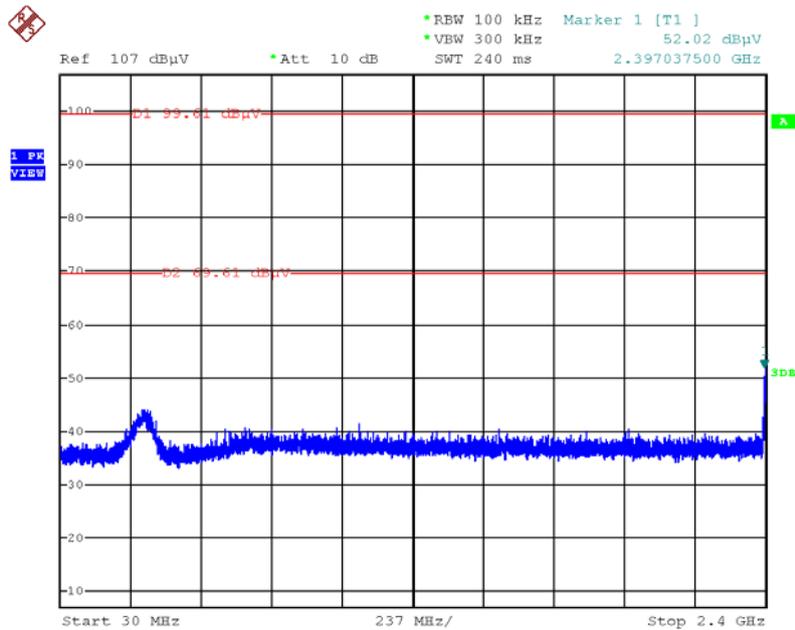
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Plot on Configuration IEEE 802.11g / Reference Level



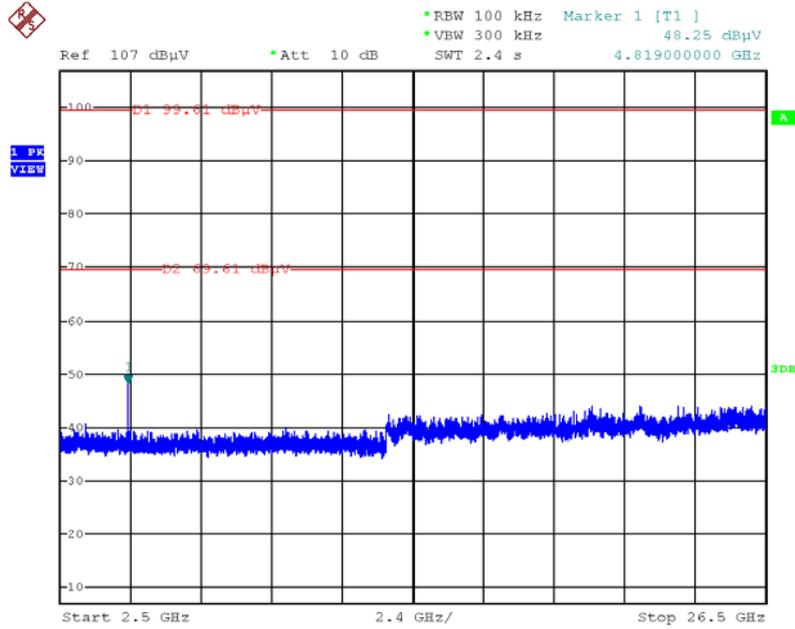
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Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



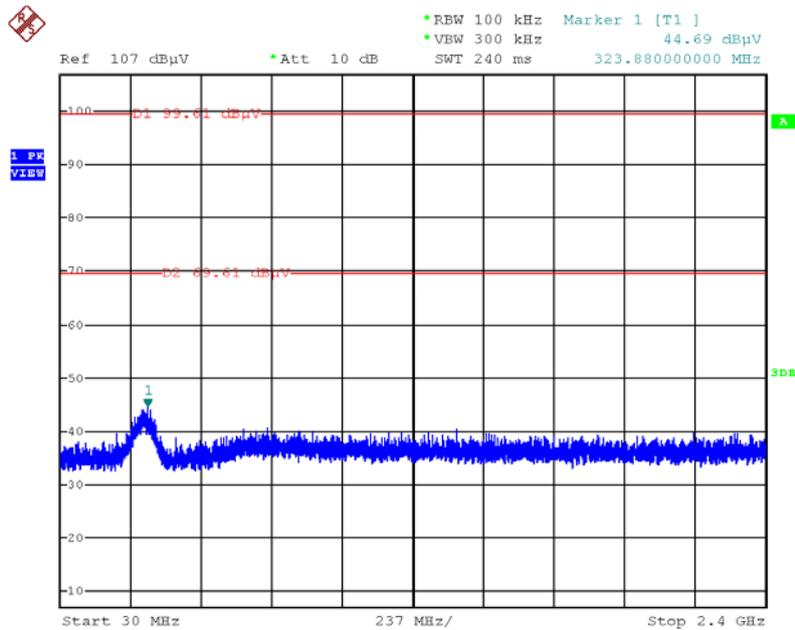
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Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~2650MHz (down 30dBc)



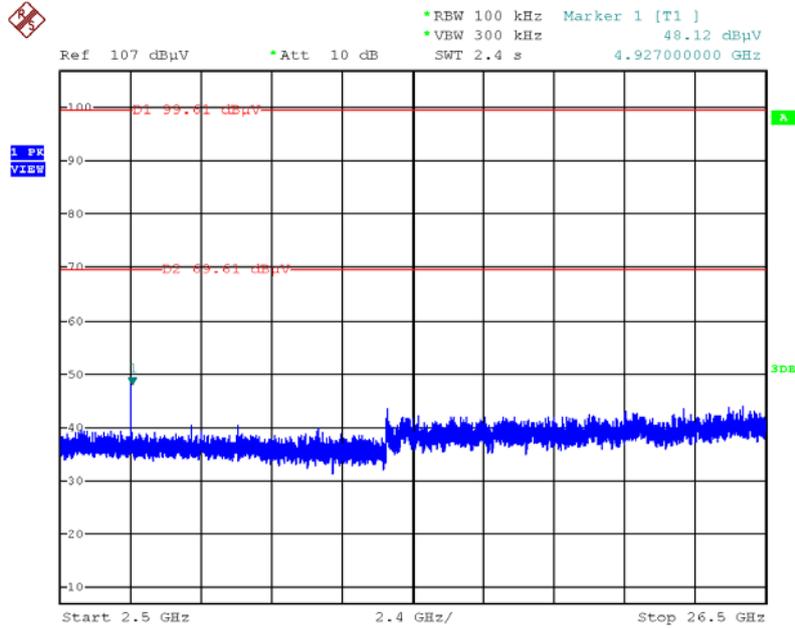
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Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



Date: 19.JUL.2013 00:45:36

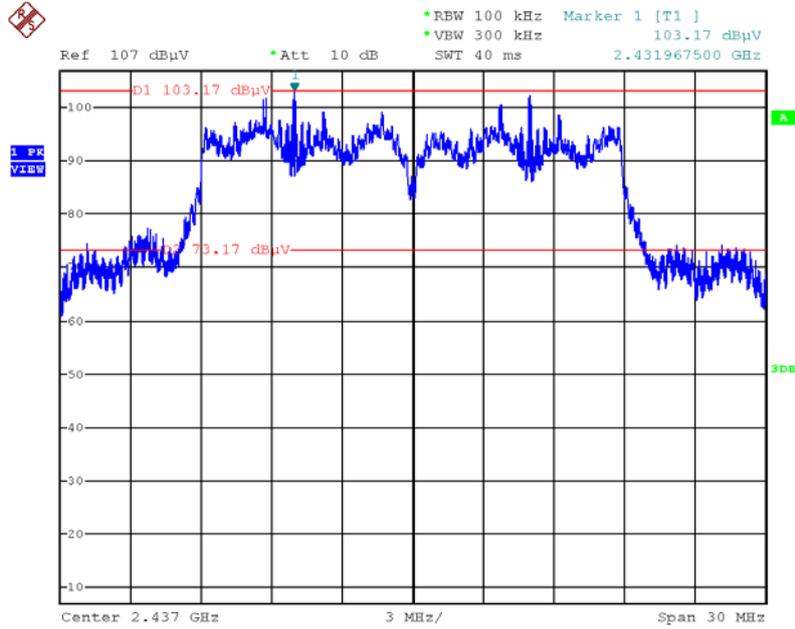
Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



Date: 19.JUL.2013 00:46:05

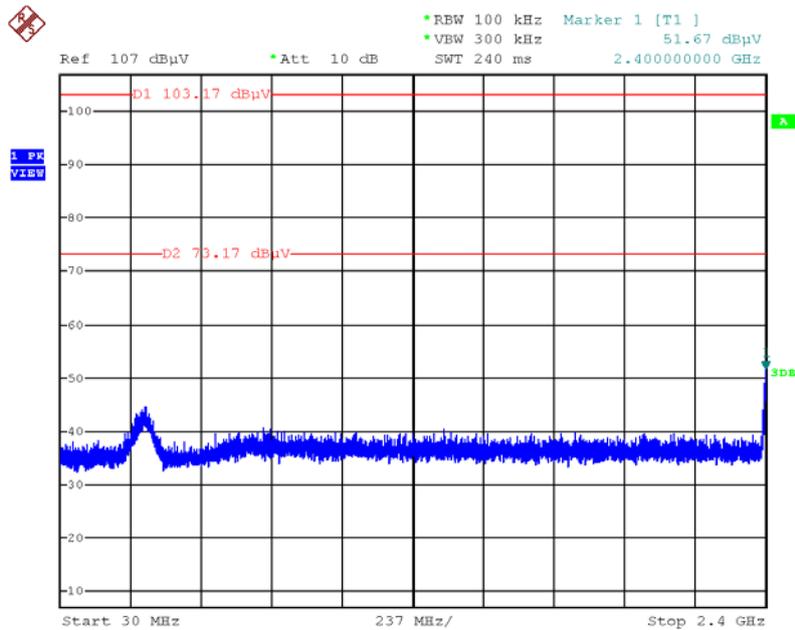
Mode 2 (Ant.2 Element antenna / 5.2dBi)

Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level



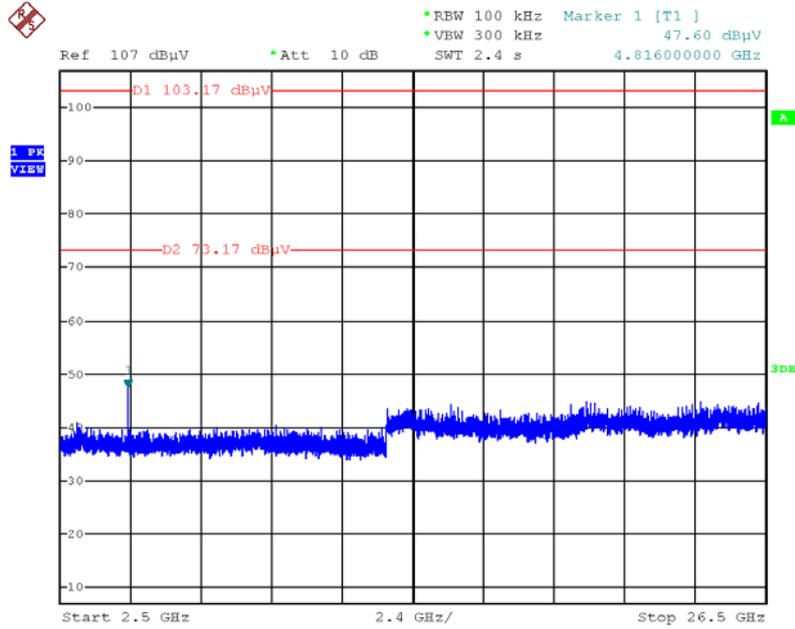
Date: 25.JUL.2013 17:54:36

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 30MHz~2400MHz (down 30dBc)



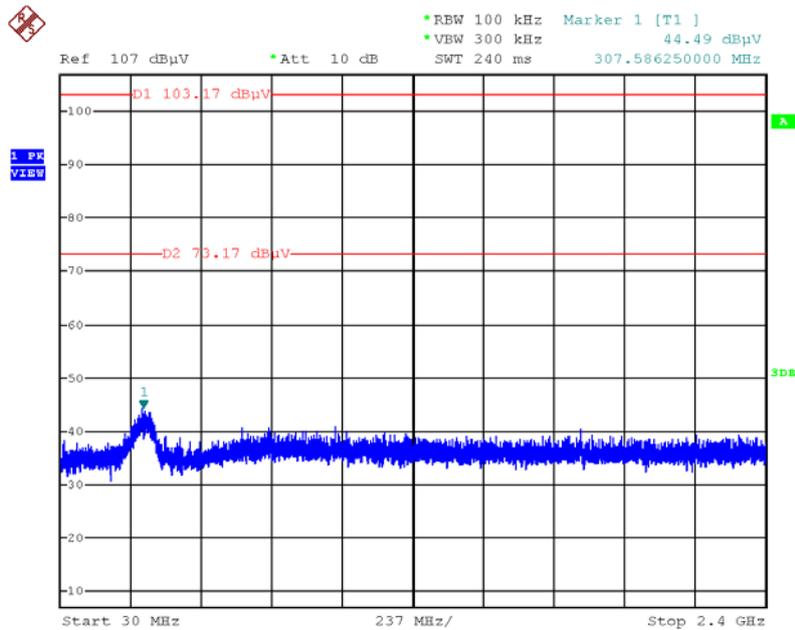
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Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 2500MHz~26500MHz (down 30dBc)



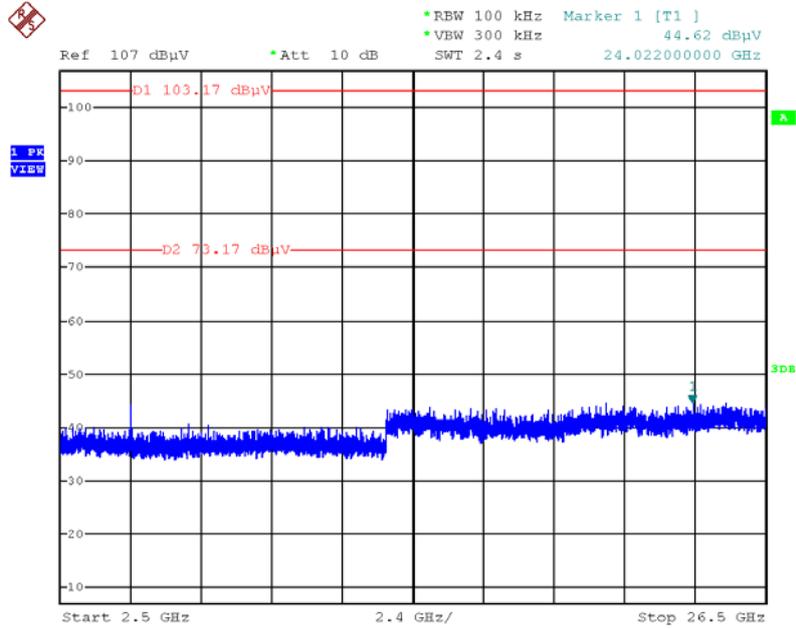
Date: 25.JUL.2013 18:02:37

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 30MHz~2400MHz (down 30dBc)



Date: 25.JUL.2013 18:03:18

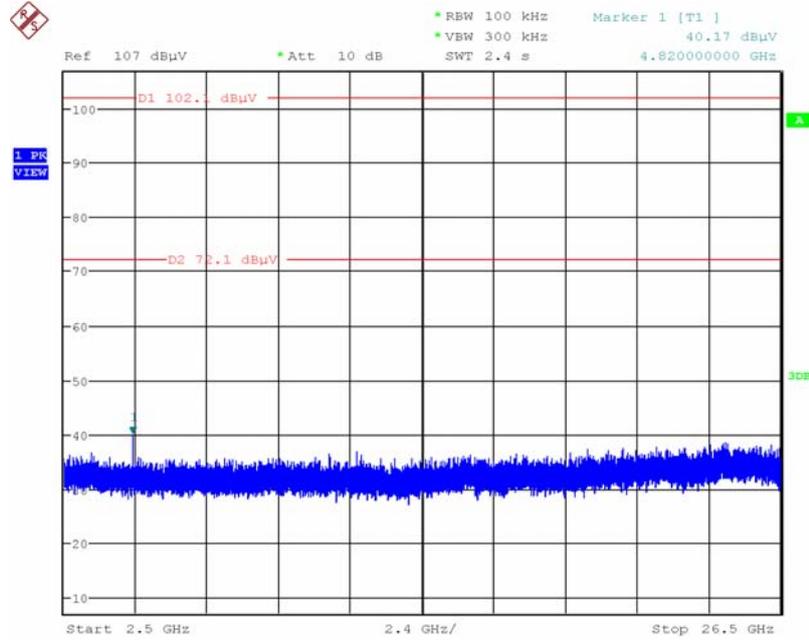
Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 2500MHz~26500MHz (down 30dBc)



Date: 25.JUL.2013 18:03:48

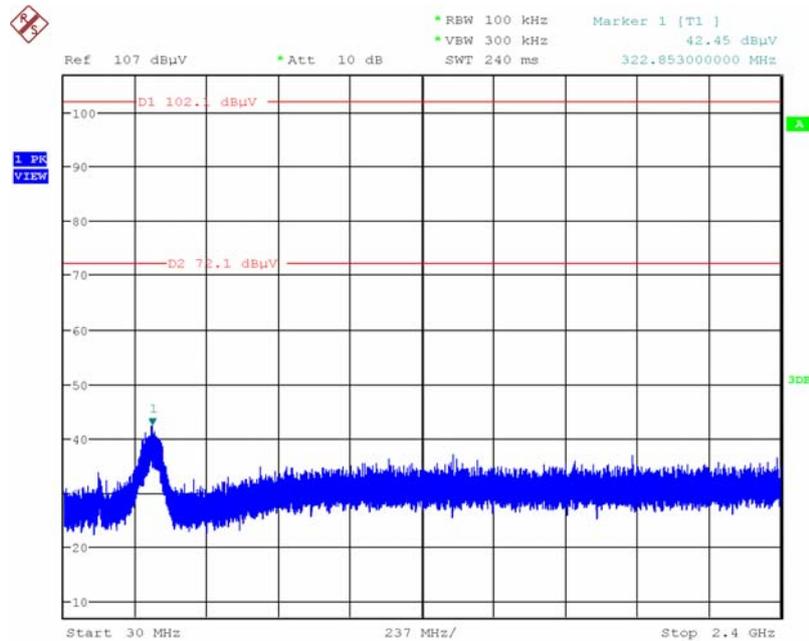


Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 1 / 2500MHz~26500MHz (down 30dBc)



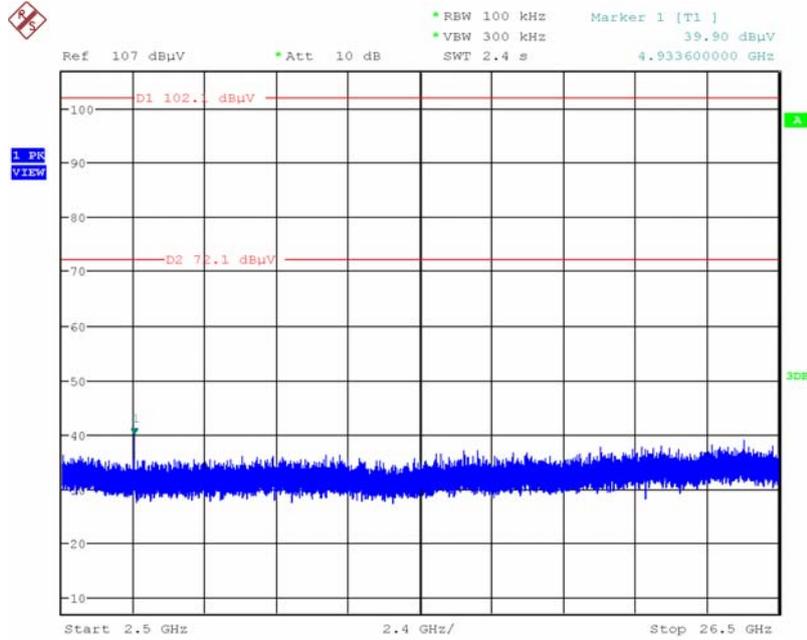
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Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 30MHz~2400MHz (down 30dBc)



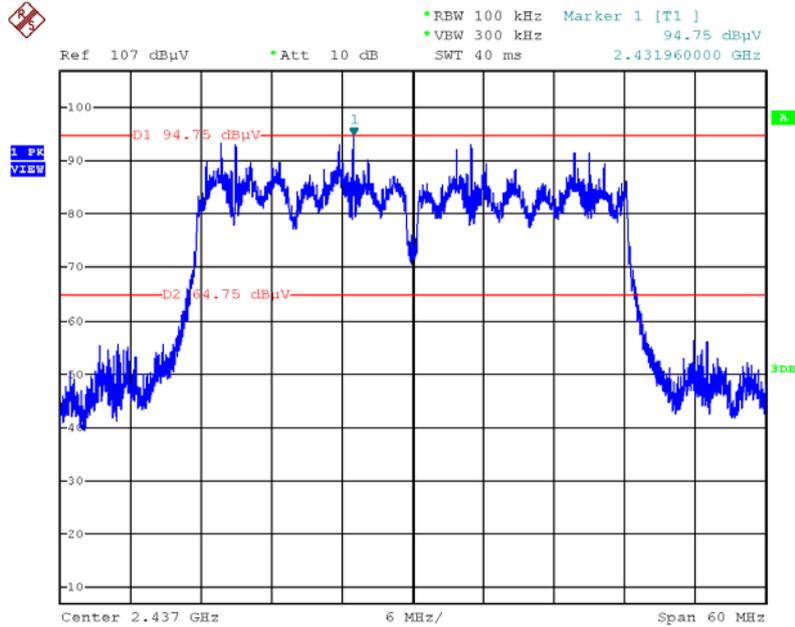
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Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 2500MHz~26500MHz (down 30dBc)



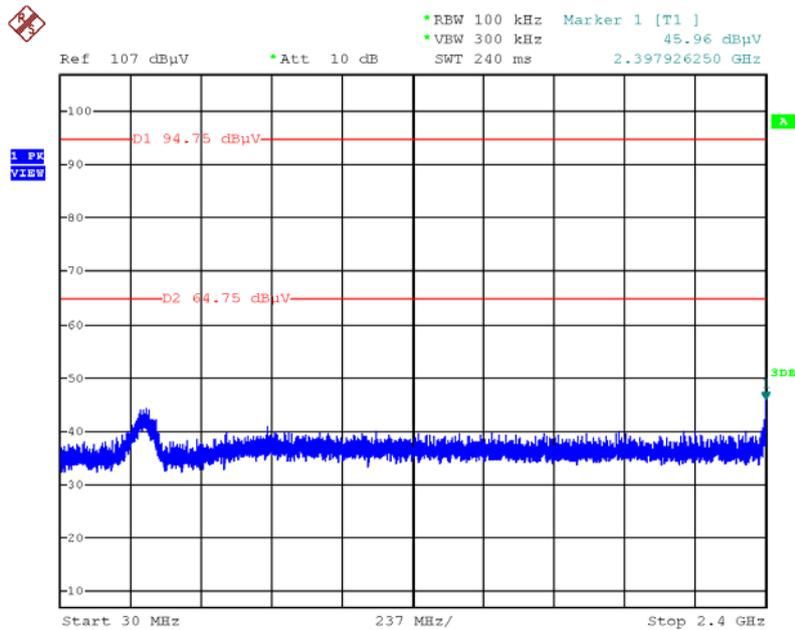
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Plot on Configuration IEEE 802.11n MCS0 40MHz / Reference Level



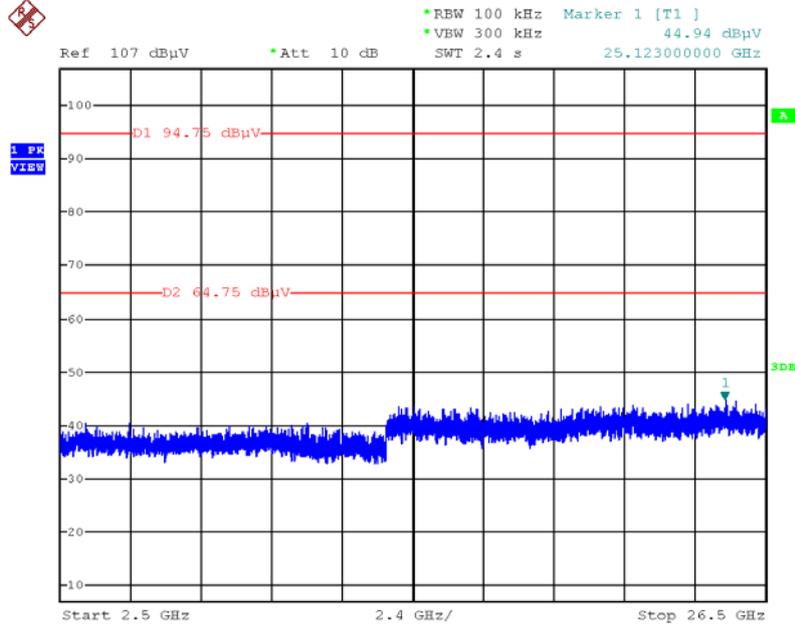
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Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 30MHz~2400MHz (down 30dBc)



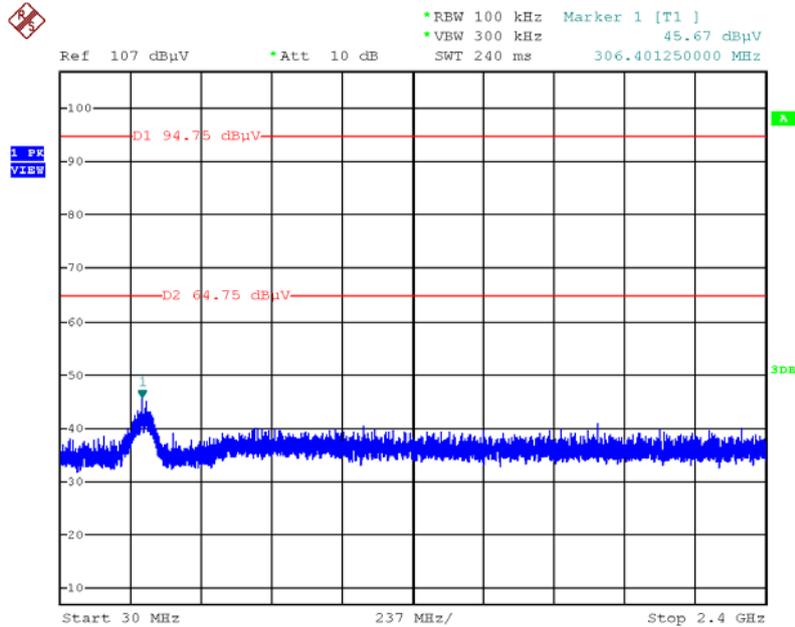
Date: 25.JUL.2013 18:10:23

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 2500MHz~26500MHz (down 30dBc)



Date: 25.JUL.2013 18:10:53

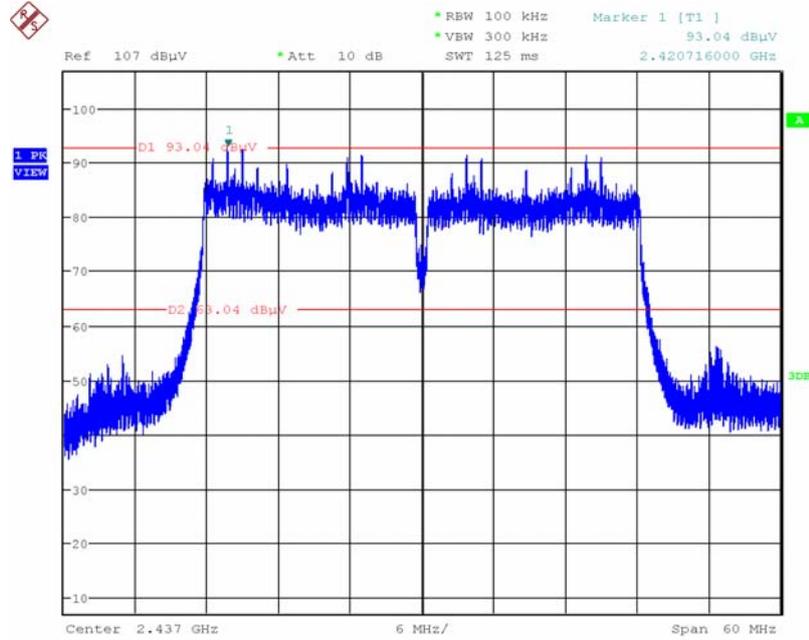
Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 25.JUL.2013 18:11:34

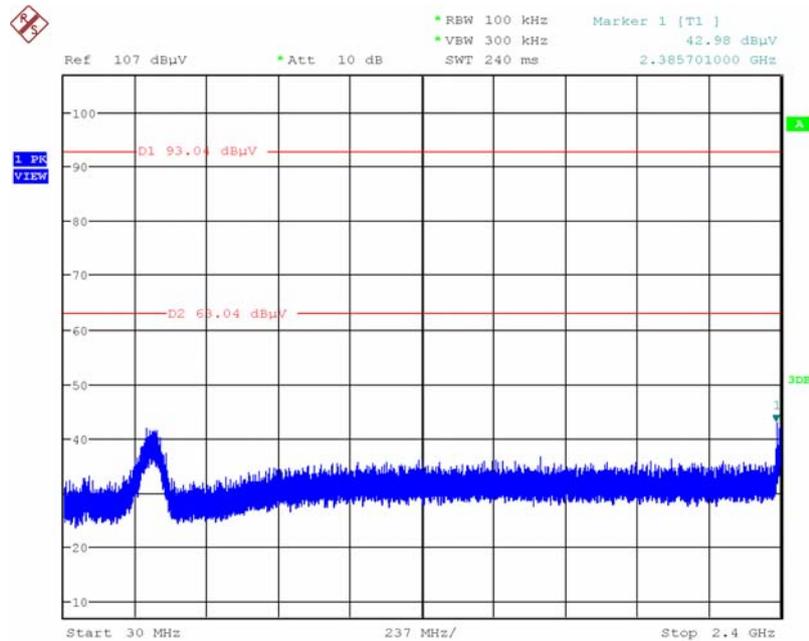


Plot on Configuration IEEE 802.11n MCS16 40MHz / Reference Level



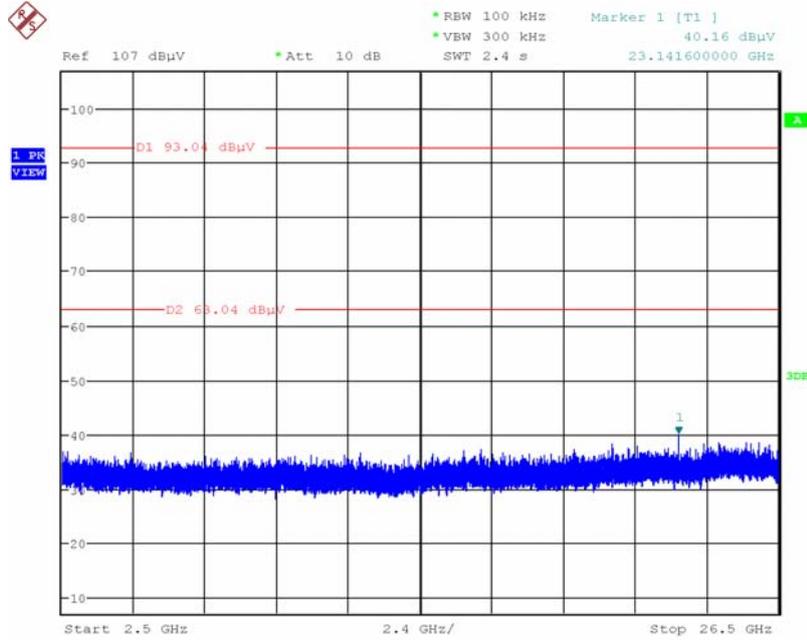
Date: 19.JUL.2013 21:10:06

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 30MHz~2400MHz (down 30dBc)



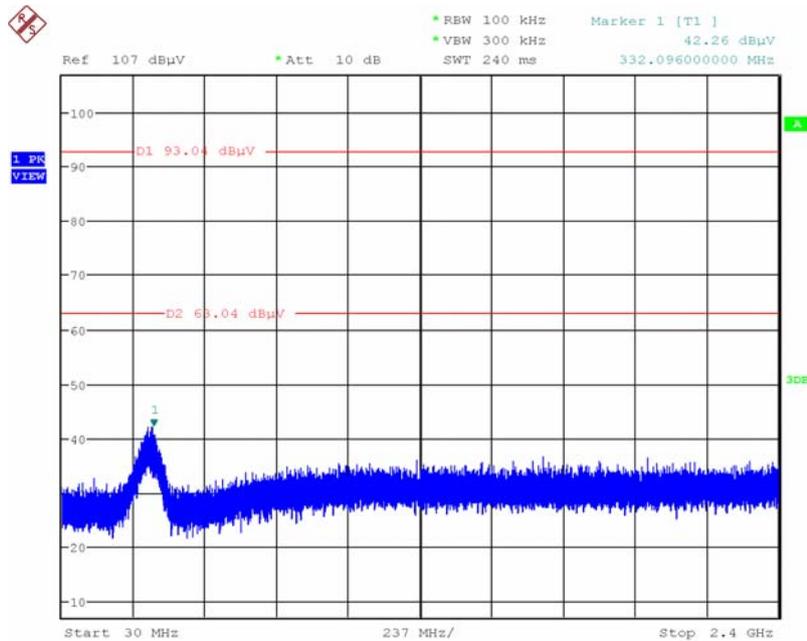
Date: 19.JUL.2013 21:13:09

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 2500MHz~26500MHz (down 30dBc)



Date: 19.JUL.2013 21:13:45

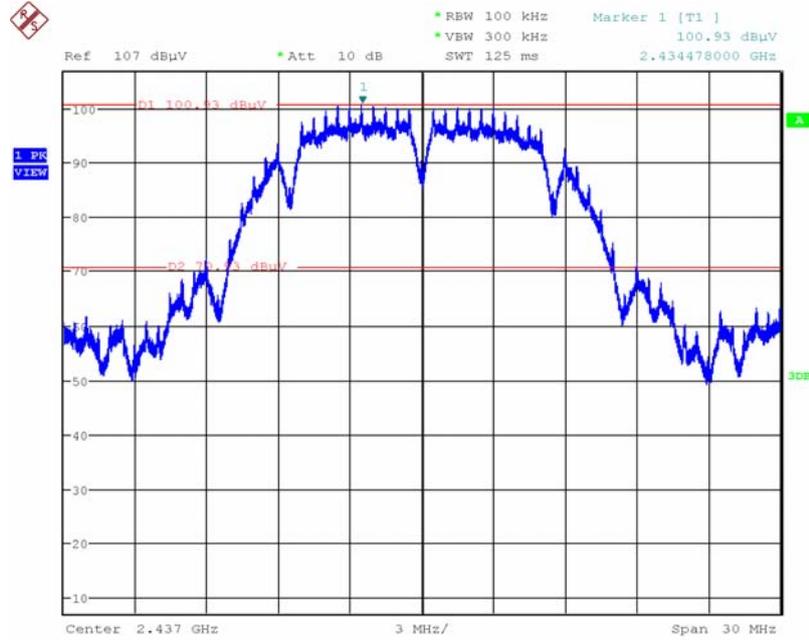
Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 9 / 30MHz~2400MHz (down 30dBc)



Date: 19.JUL.2013 21:14:32

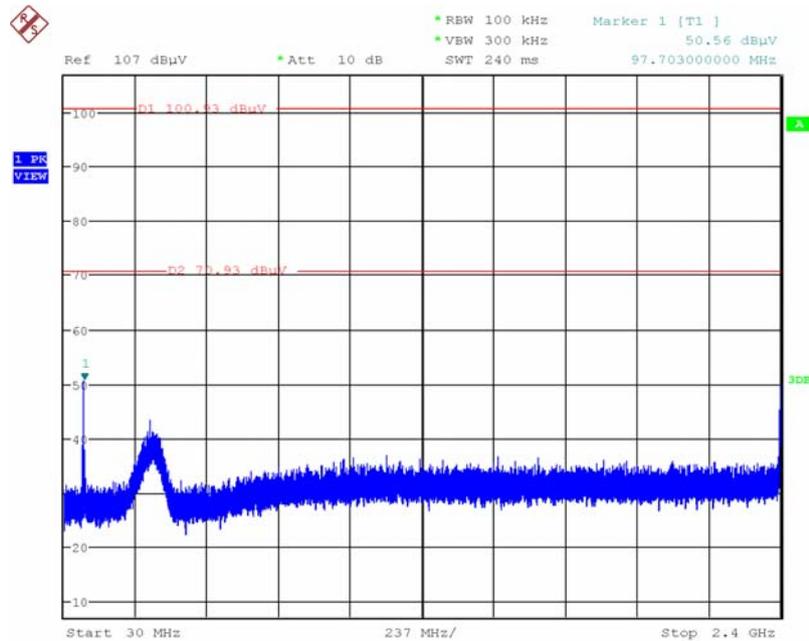


Plot on Configuration IEEE 802.11b / Reference Level



Date: 19.JUL.2013 20:46:23

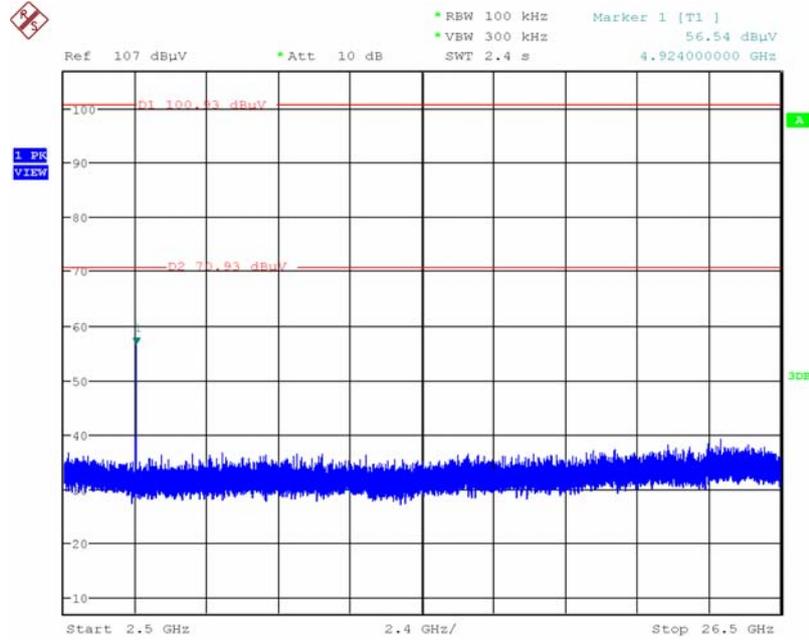
Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



Date: 19.JUL.2013 20:47:58

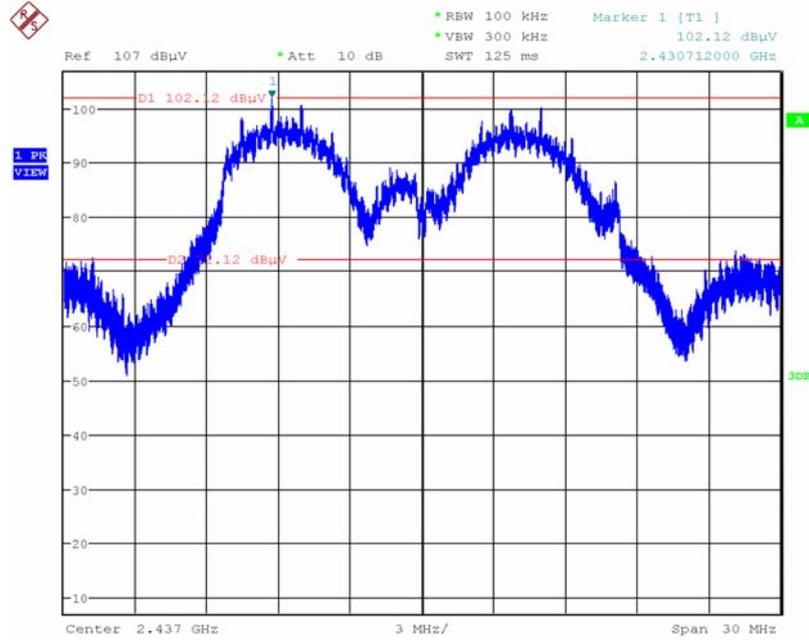


Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



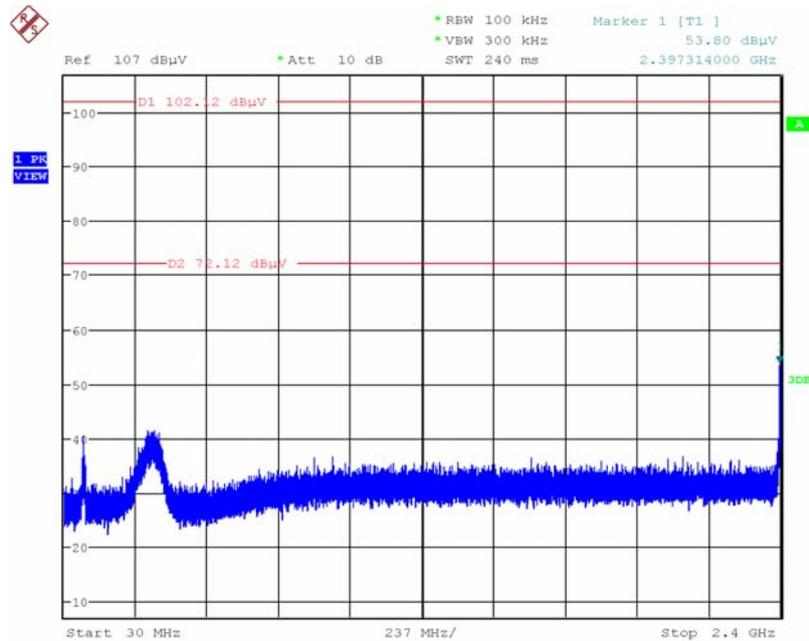
Date: 19.JUL.2013 20:50:11

Plot on Configuration IEEE 802.11g / Reference Level



Date: 19.JUL.2013 20:55:17

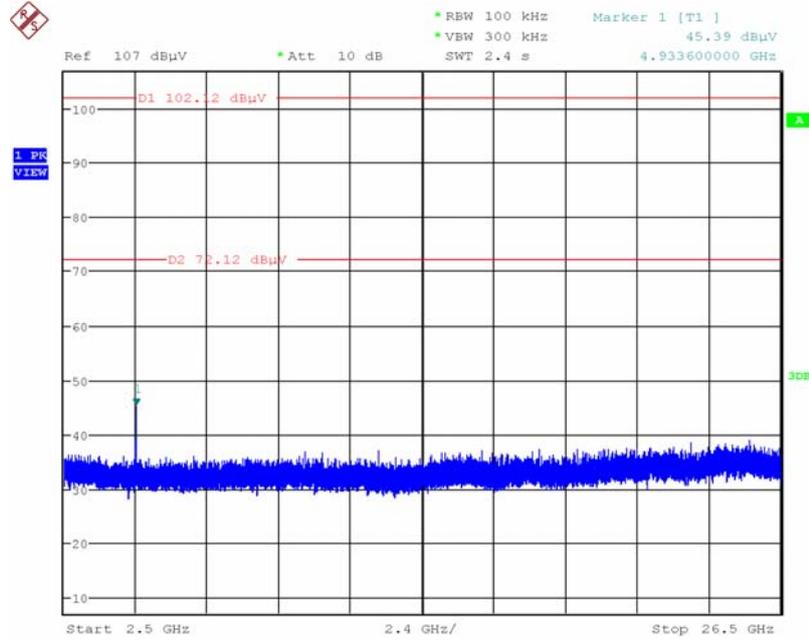
Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



Date: 19.JUL.2013 20:56:53



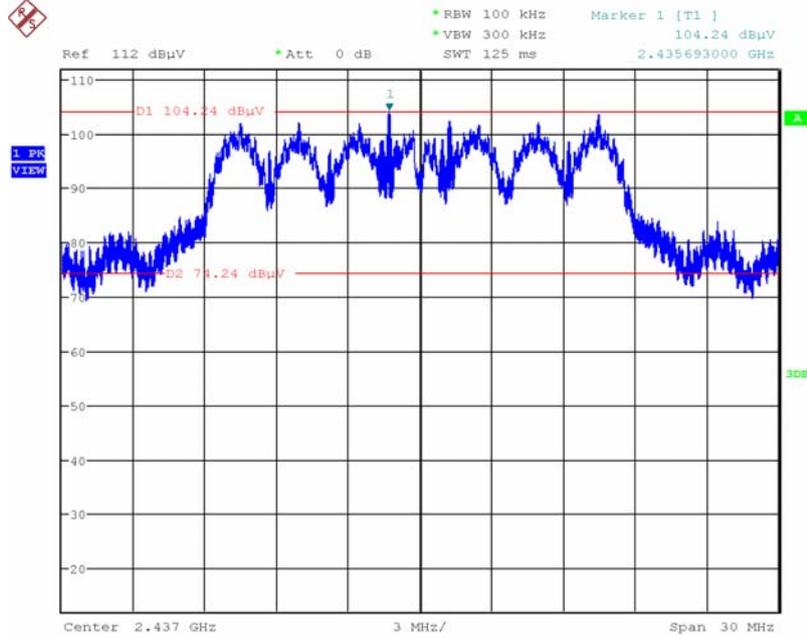
Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



Date: 19.JUL.2013 20:58:55

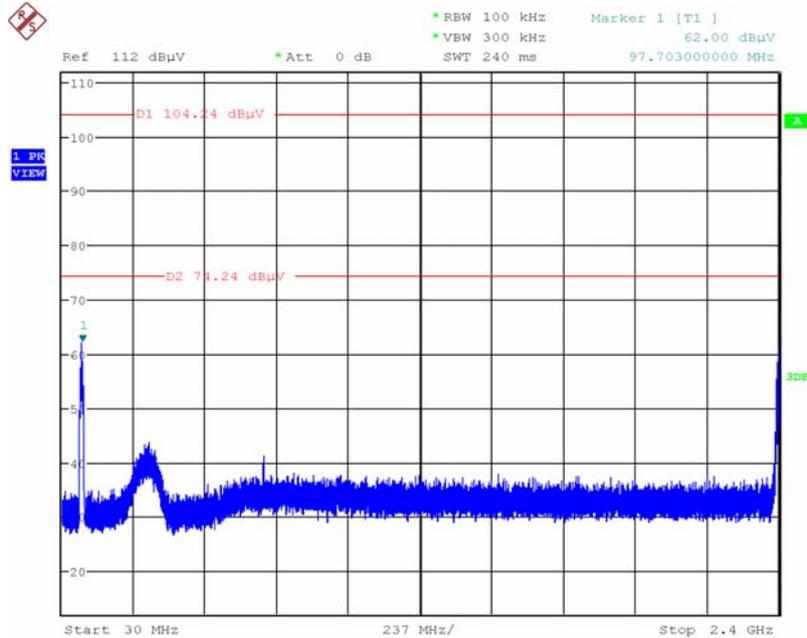
**Mode 3 (Ant.4 Panel antenna / 7.1dBi)**

**Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level**



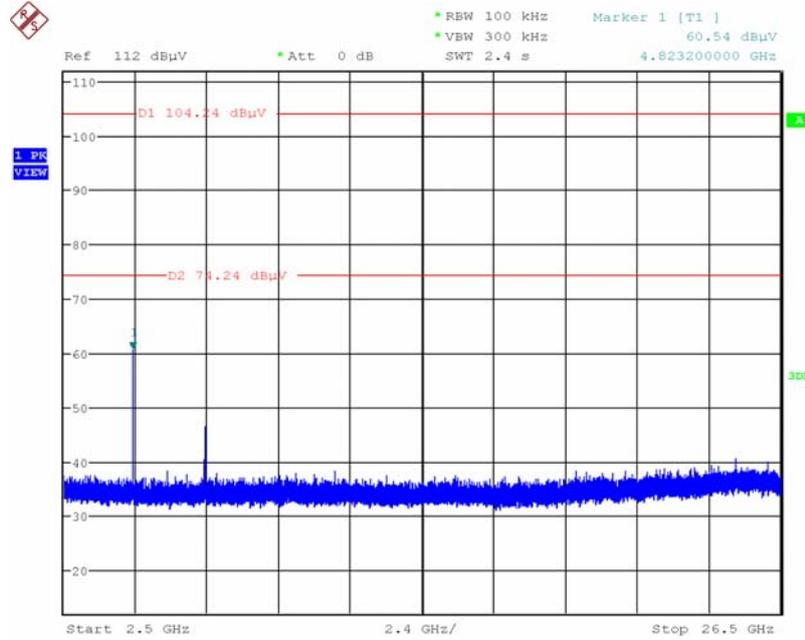
Date: 3.AUG.2013 11:01:58

**Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 30MHz~2400MHz (down 30dBc)**



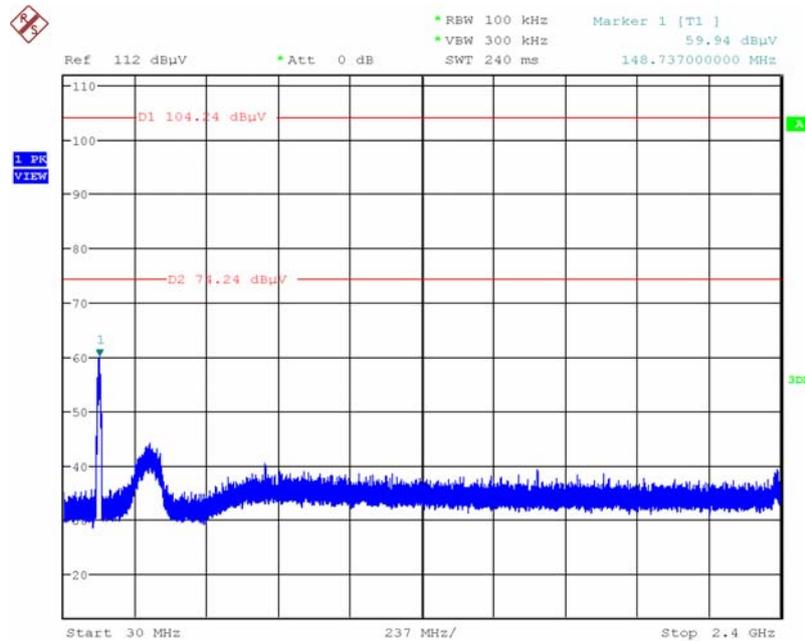
Date: 3.AUG.2013 11:27:39

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 2500MHz~26500MHz (down 30dBc)



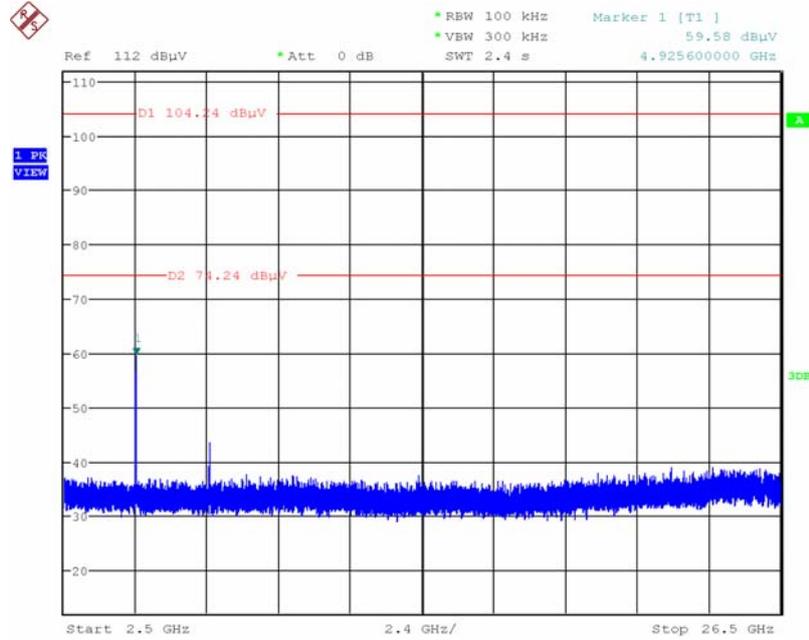
Date: 3.AUG.2013 11:28:26

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 30MHz~2400MHz (down 30dBc)



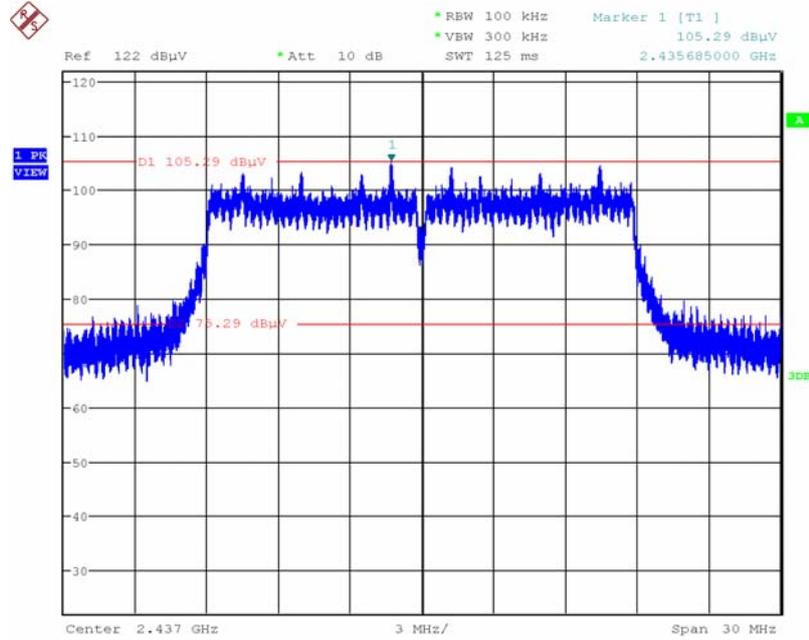
Date: 3.AUG.2013 11:30:36

## Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 2500MHz~26500MHz (down 30dBc)



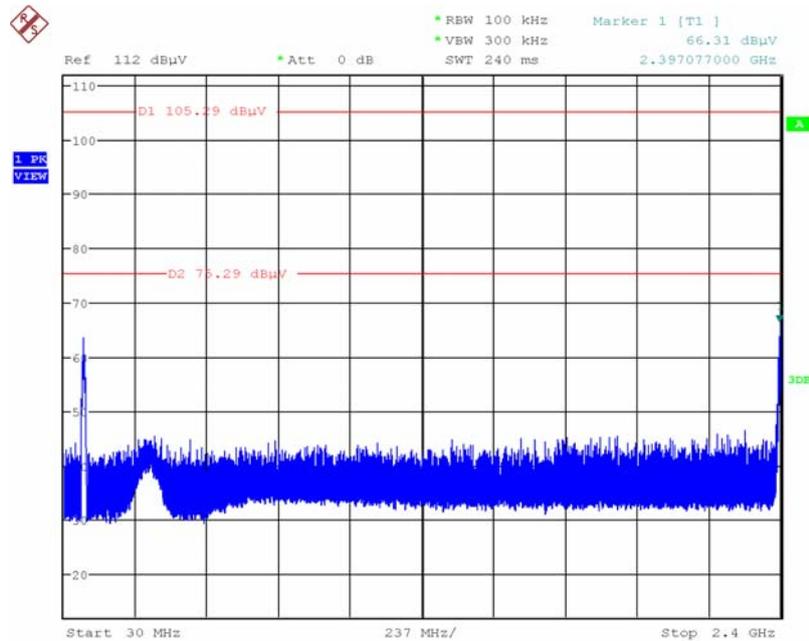
Date: 3.AUG.2013 11:29:19

Plot on Configuration IEEE 802.11n MCS16 20MHz / Reference Level



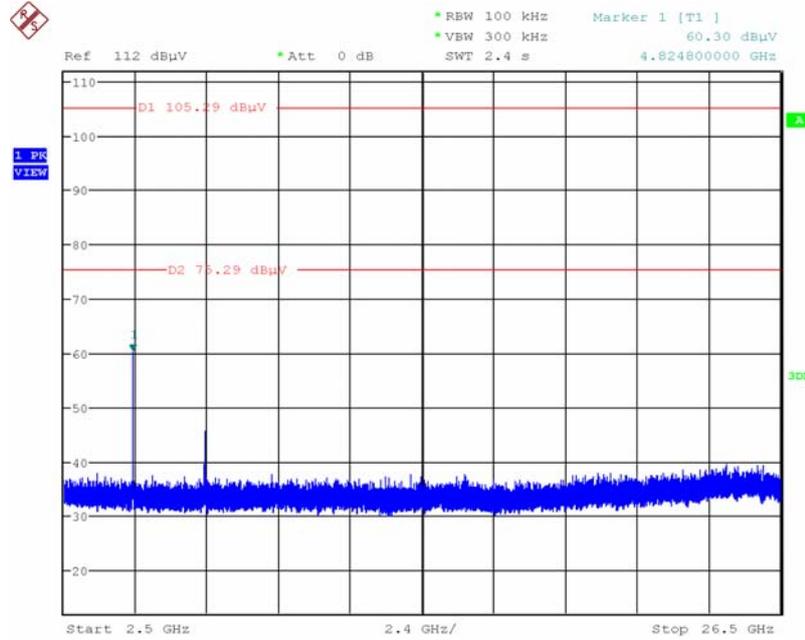
Date: 3.AUG.2013 11:50:11

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 1 / 30MHz~2400MHz (down 30dBc)



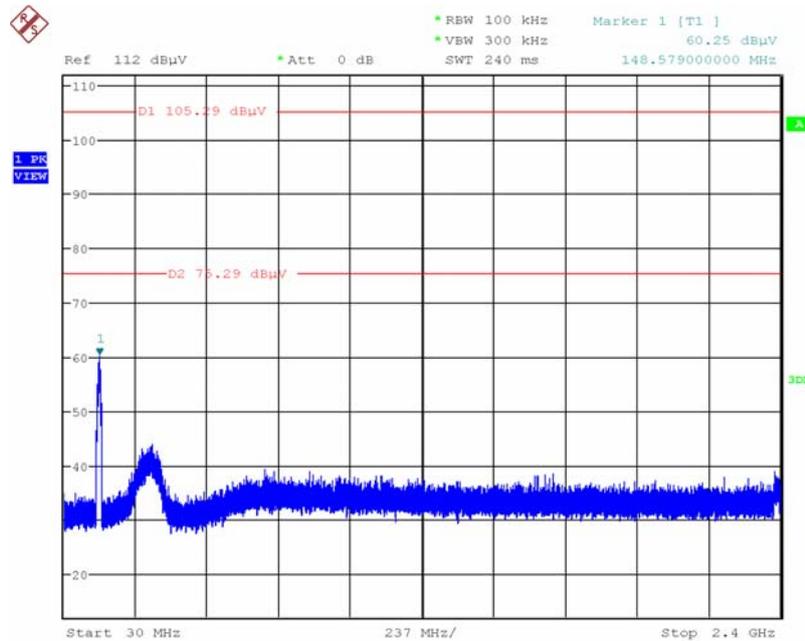
Date: 3.AUG.2013 11:53:11

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 1 / 2500MHz~26500MHz (down 30dBc)



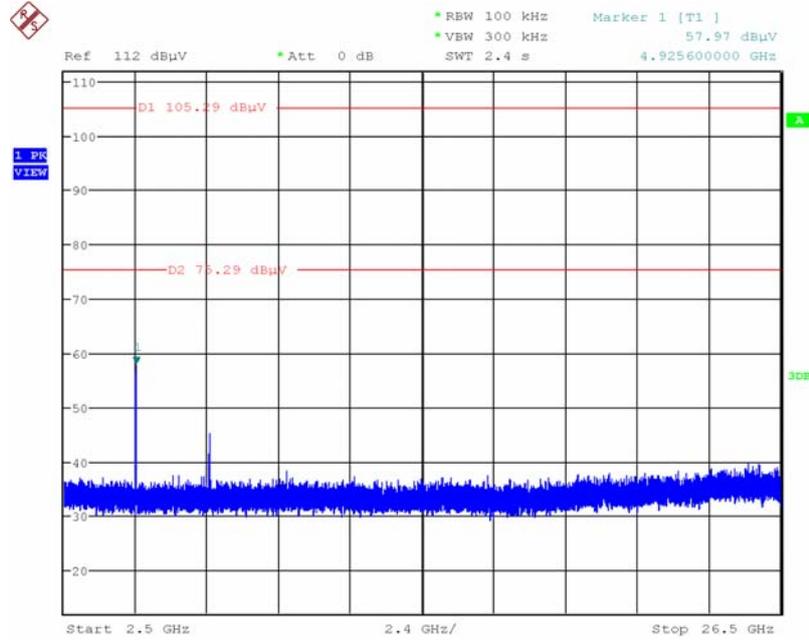
Date: 3.AUG.2013 11:53:41

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 30MHz~2400MHz (down 30dBc)



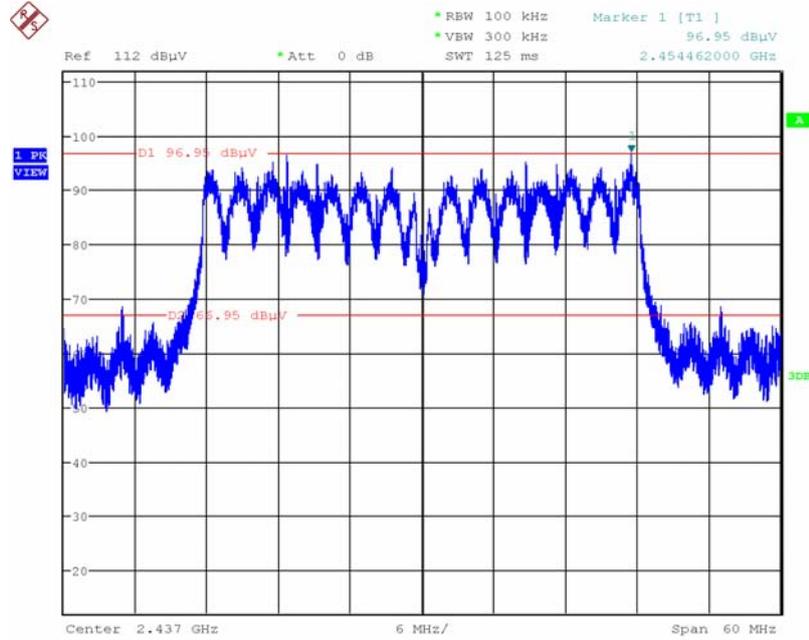
Date: 3.AUG.2013 11:54:58

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 2500MHz~26500MHz (down 30dBc)



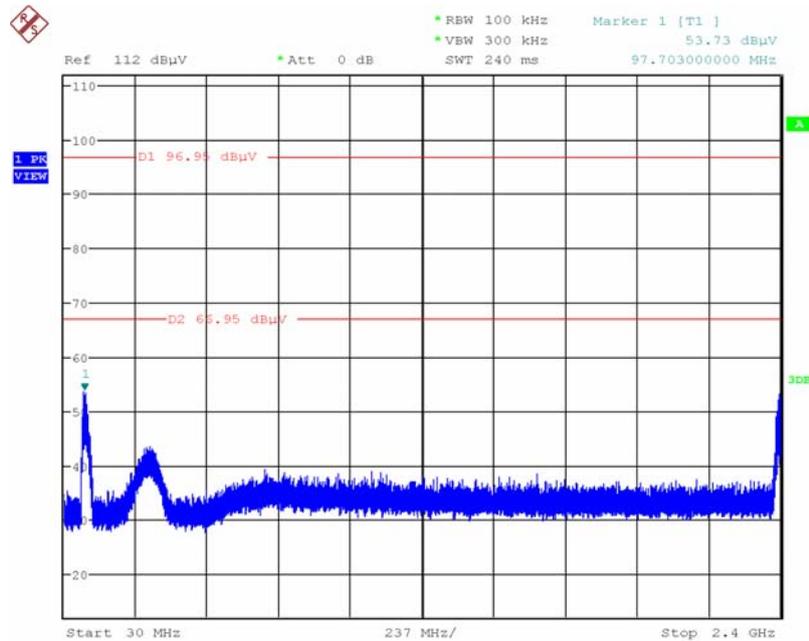
Date: 3.AUG.2013 11:54:16

Plot on Configuration IEEE 802.11n MCS0 40MHz / Reference Level



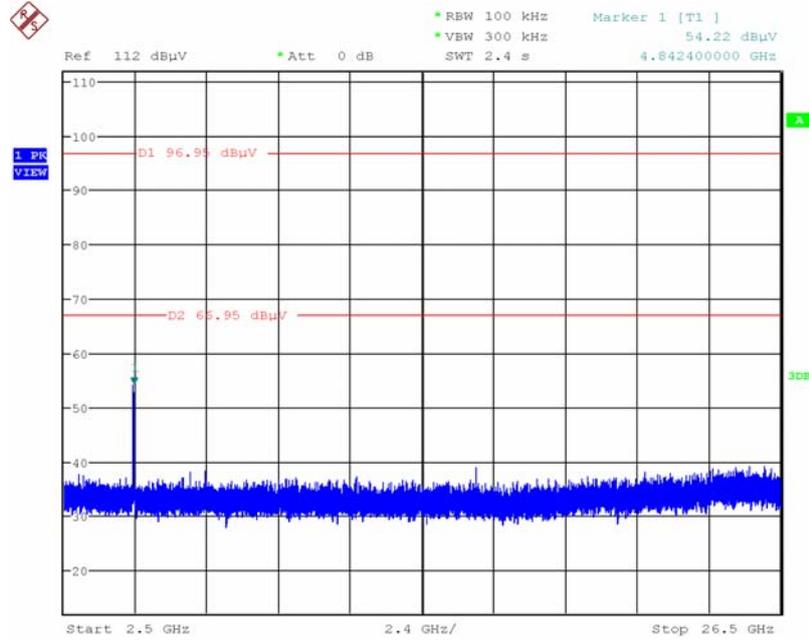
Date: 3.AUG.2013 11:03:03

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 30MHz~2400MHz (down 30dBc)



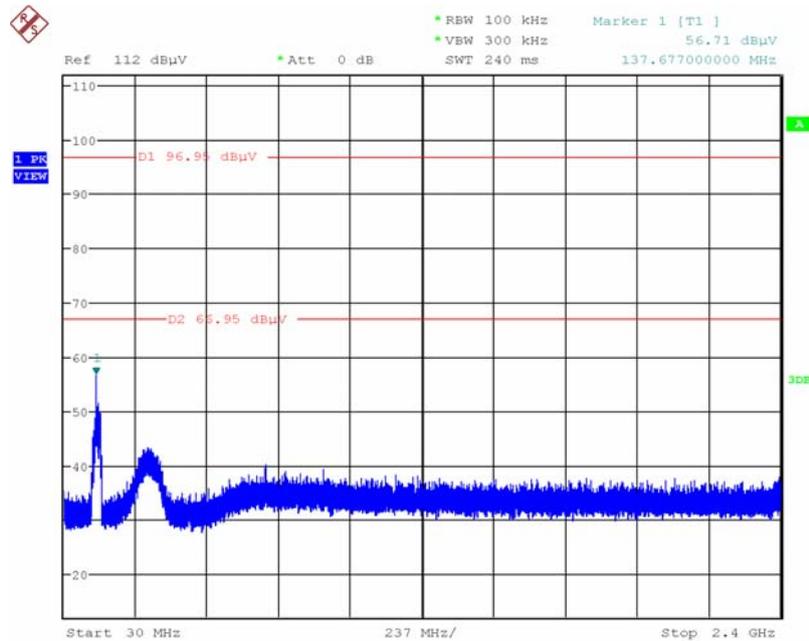
Date: 3.AUG.2013 11:14:38

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 2500MHz~26500MHz (down 30dBc)



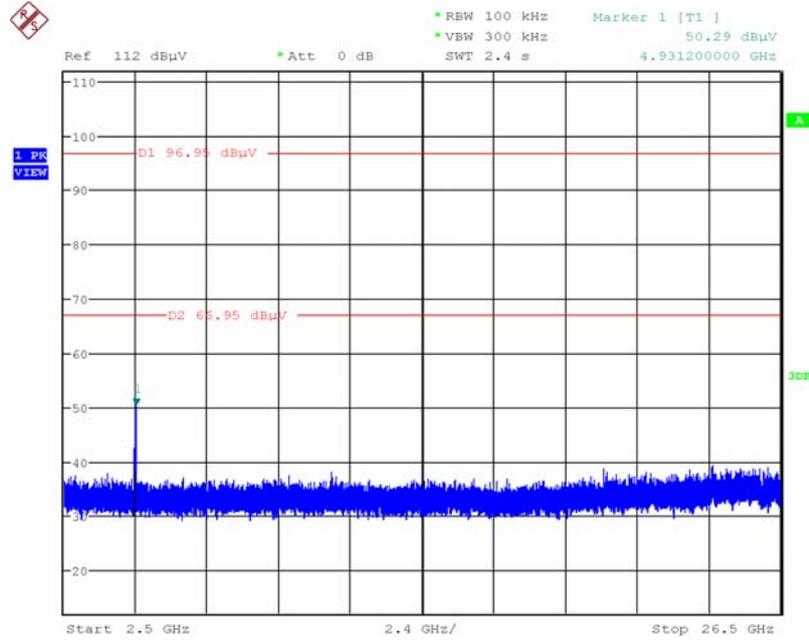
Date: 3.AUG.2013 11:15:14

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 30MHz~2400MHz (down 30dBc)



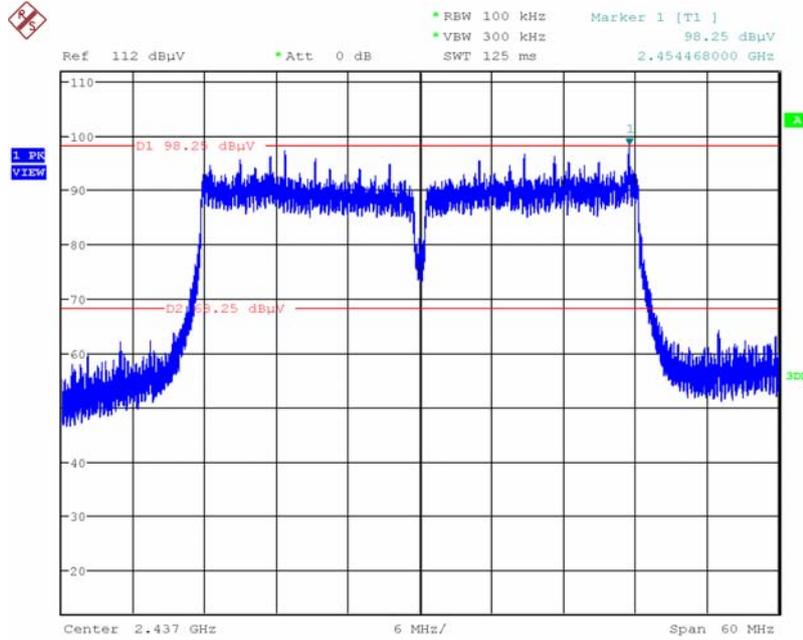
Date: 3.AUG.2013 11:16:49

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 2500MHz~26500MHz (down 30dBc)



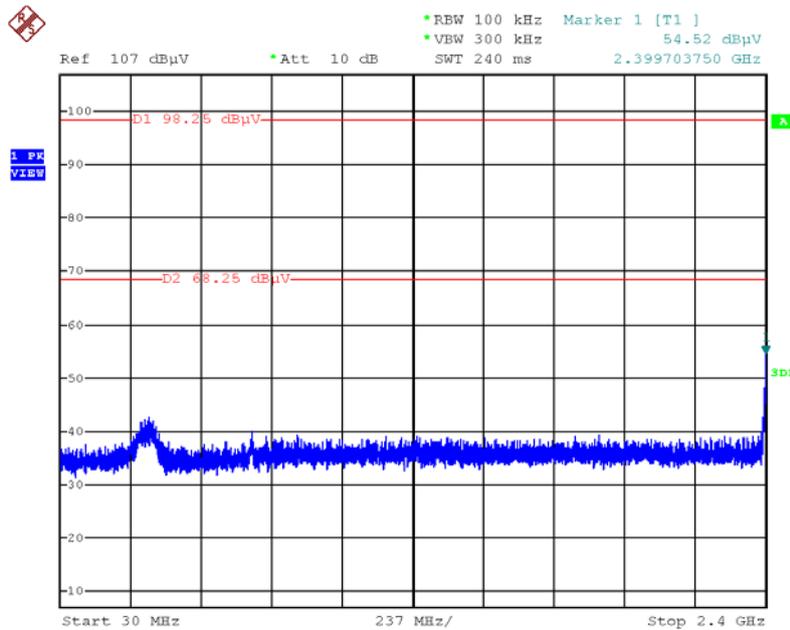
Date: 3.AUG.2013 11:16:04

Plot on Configuration IEEE 802.11n MCS16 40MHz / Reference Level



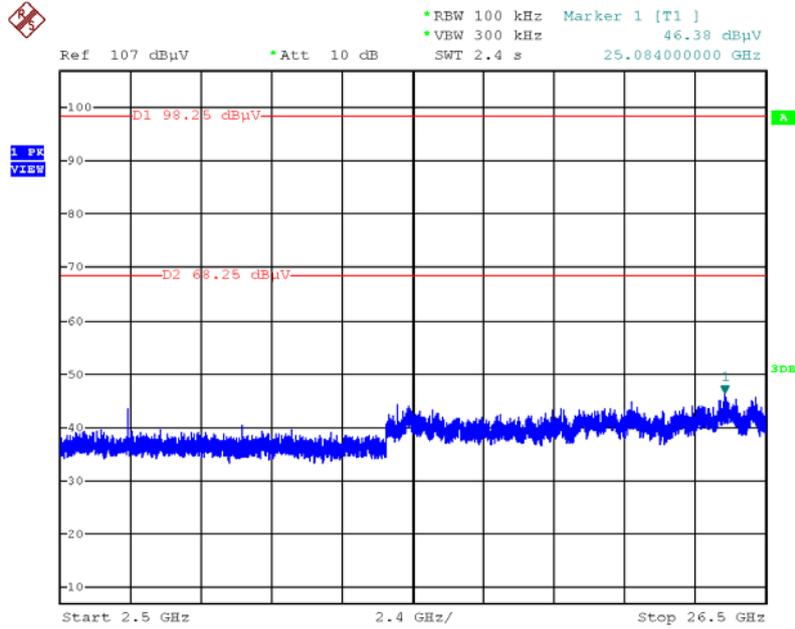
Date: 3.AUG.2013 11:48:53

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 30MHz~2400MHz (down 30dBc)



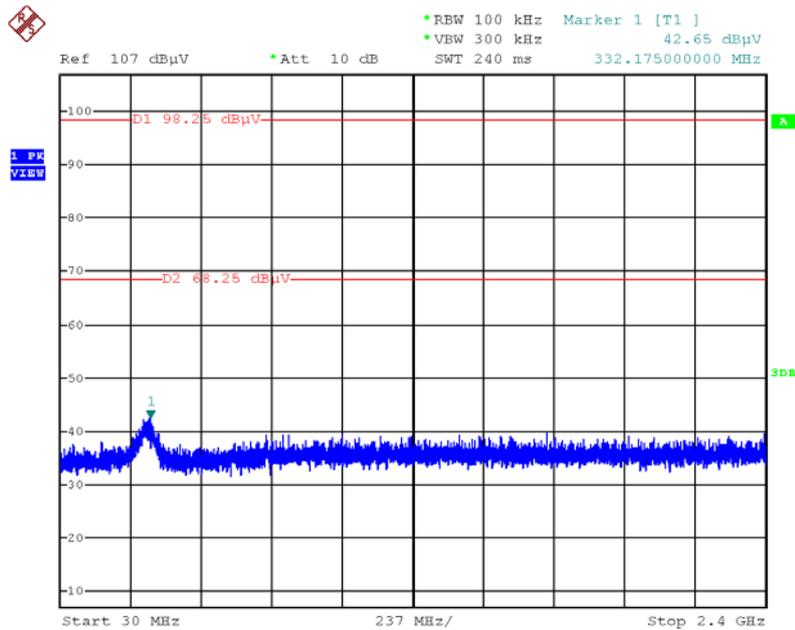
Date: 20.JUL.2013 01:09:40

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 2500MHz~26500MHz (down 30dBc)



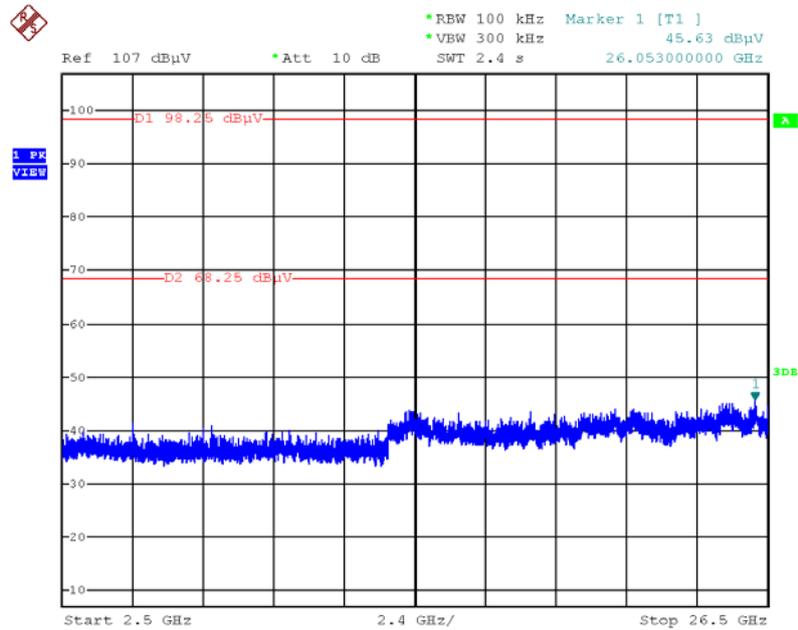
Date: 20.JUL.2013 01:10:12

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 9 / 30MHz~2400MHz (down 30dBc)



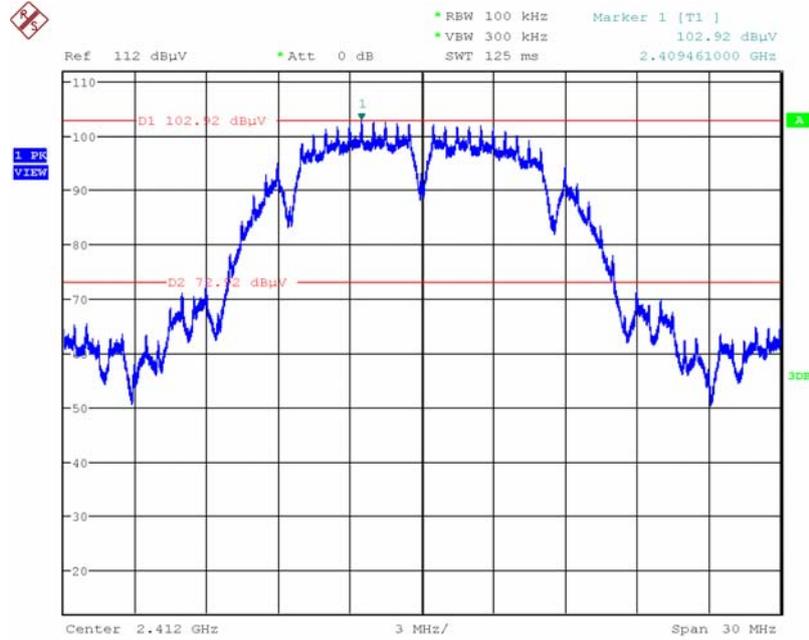
Date: 20.JUL.2013 01:10:47

## Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 9 / 2500MHz~26500MHz (down 30dBc)



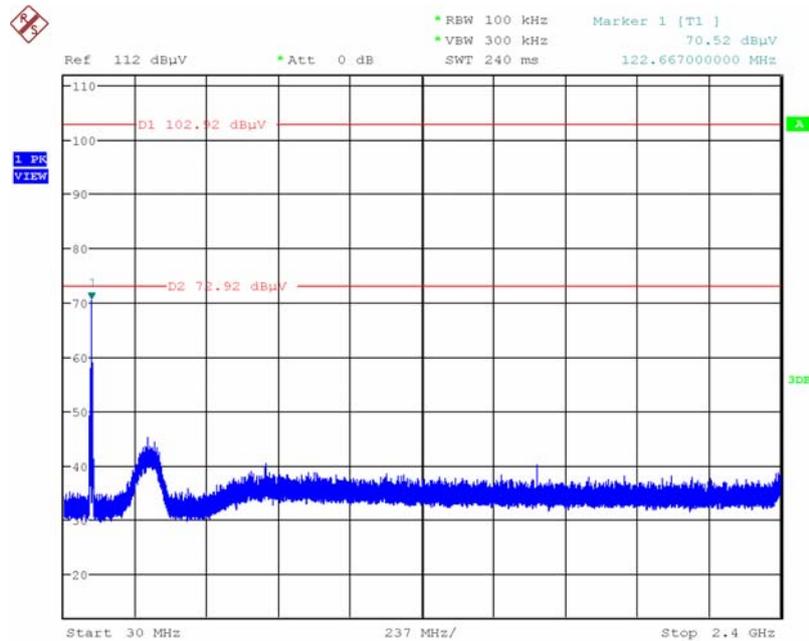
Date: 20.JUL.2013 01:11:19

Plot on Configuration IEEE 802.11b / Reference Level



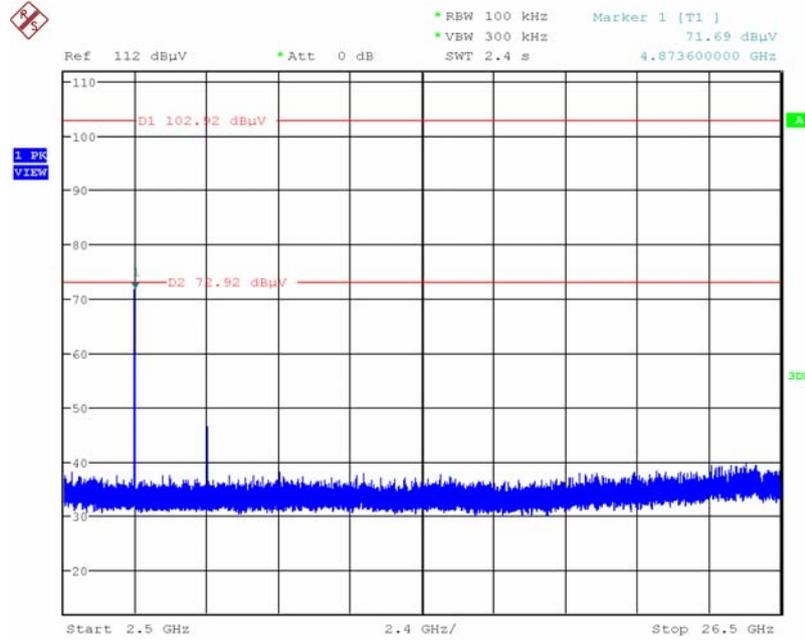
Date: 3.AUG.2013 10:57:31

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



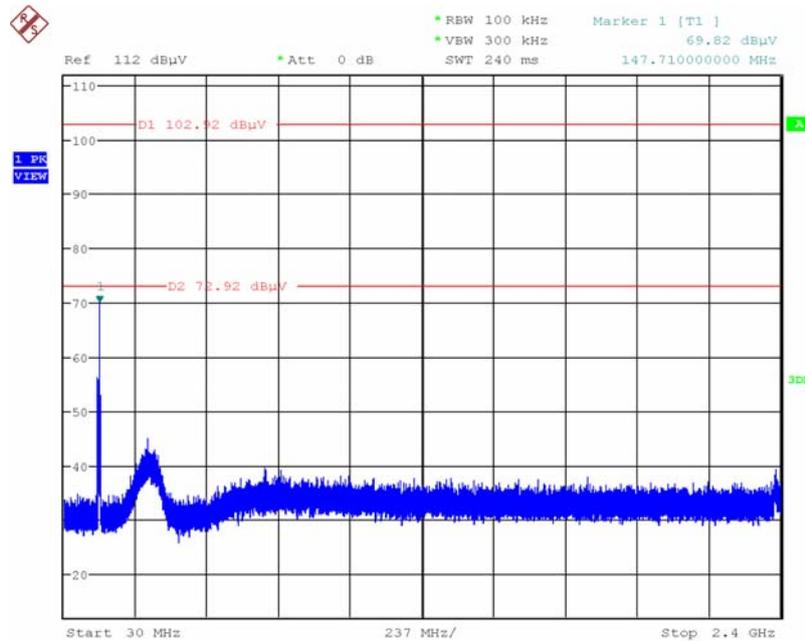
Date: 3.AUG.2013 11:20:01

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



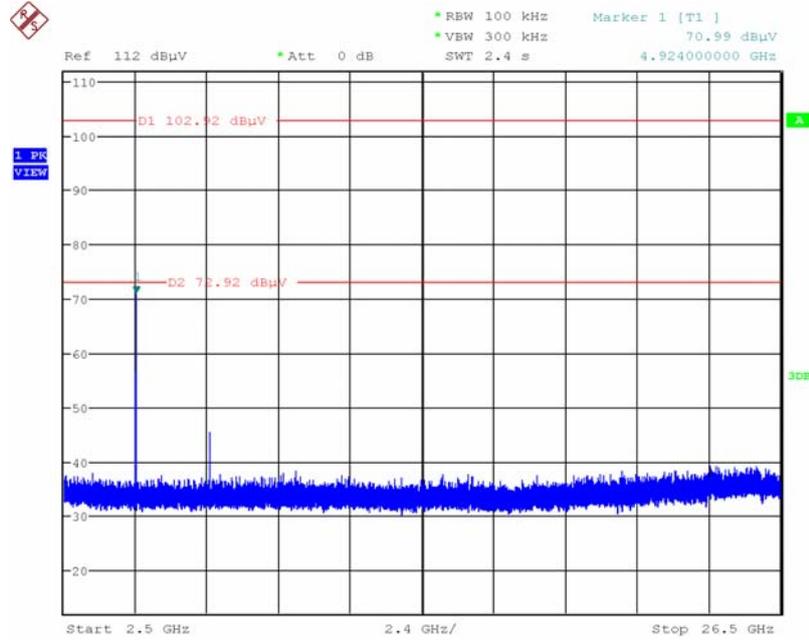
Date: 3.AUG.2013 11:20:31

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



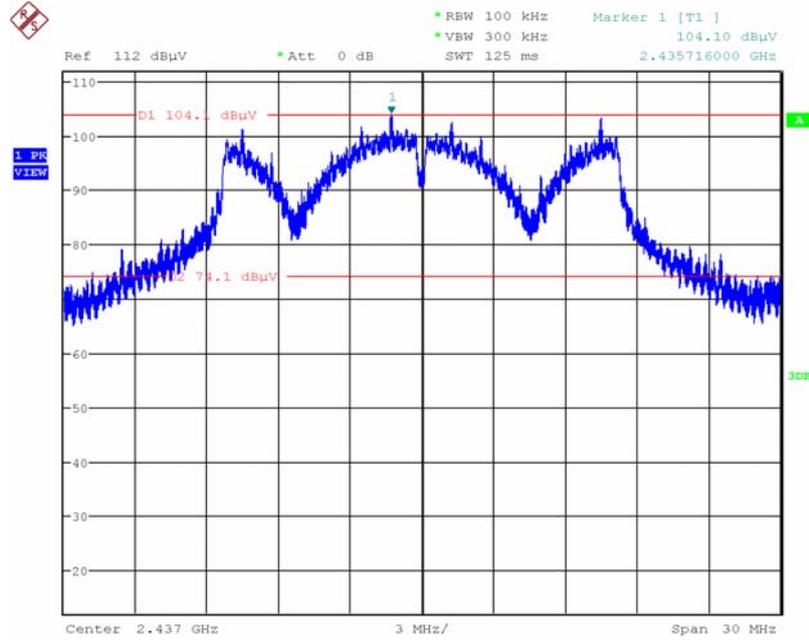
Date: 3.AUG.2013 11:21:59

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



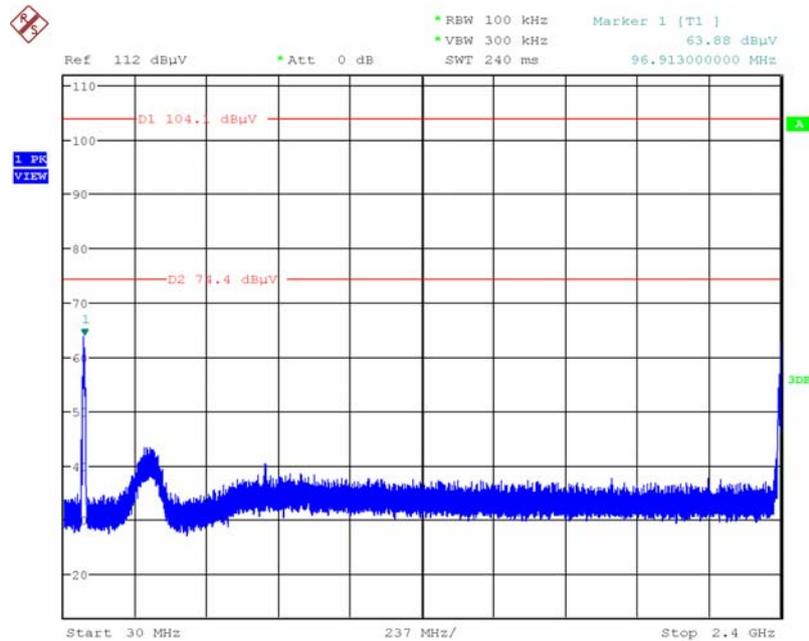
Date: 3.AUG.2013 11:21:24

Plot on Configuration IEEE 802.11g / Reference Level



Date: 3.AUG.2013 10:59:52

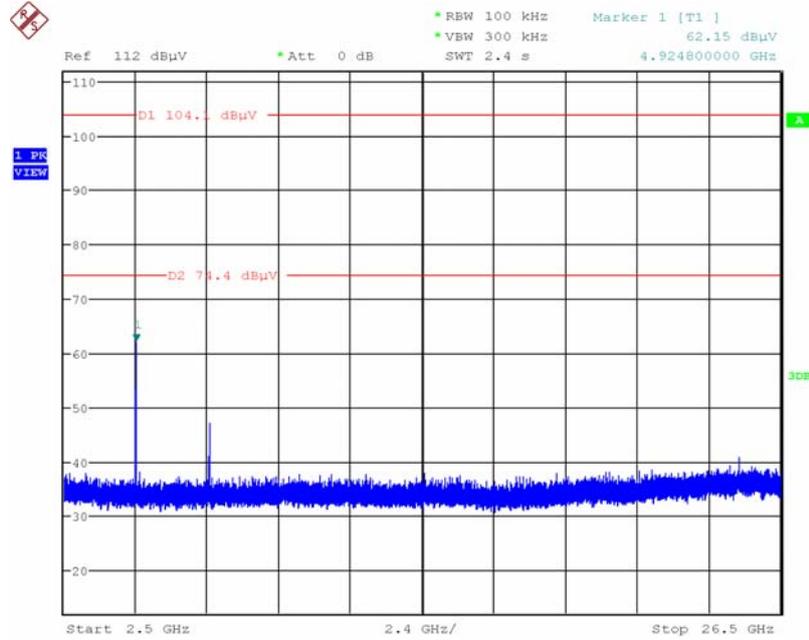
Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



Date: 3.AUG.2013 11:26:25



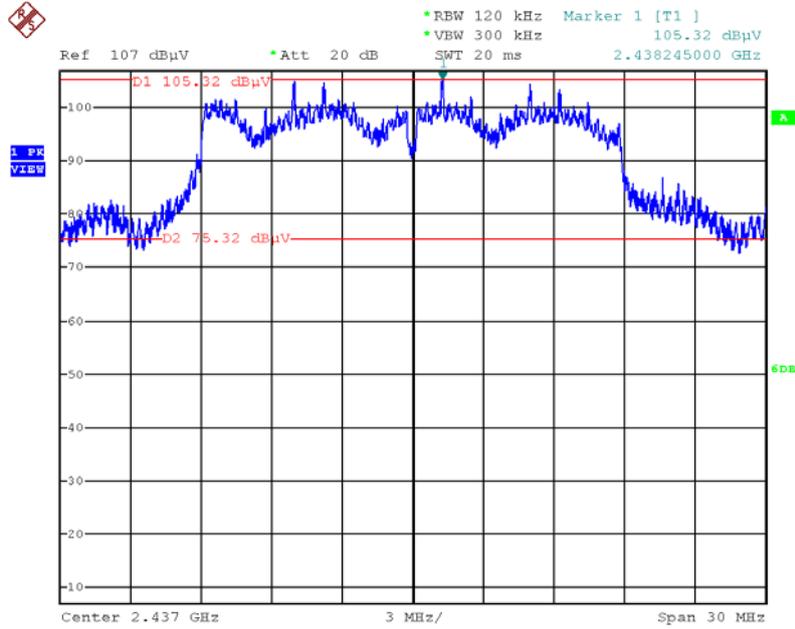
Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



Date: 3.AUG.2013 11:25:03

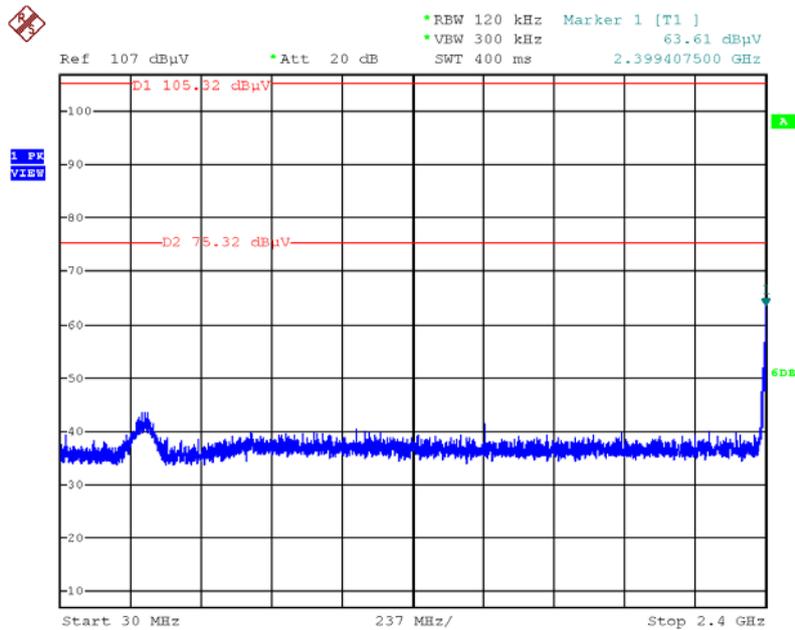
Mode 4 (Ant.5 PCB antenna / 4.94dBi)

Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level



Date: 27.JUL.2013 20:00:44

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 30MHz~2400MHz (down 30dBc)



Date: 27.JUL.2013 20:01:12