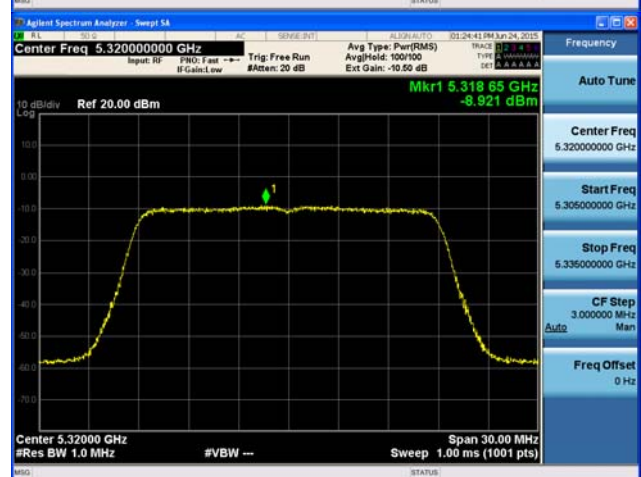
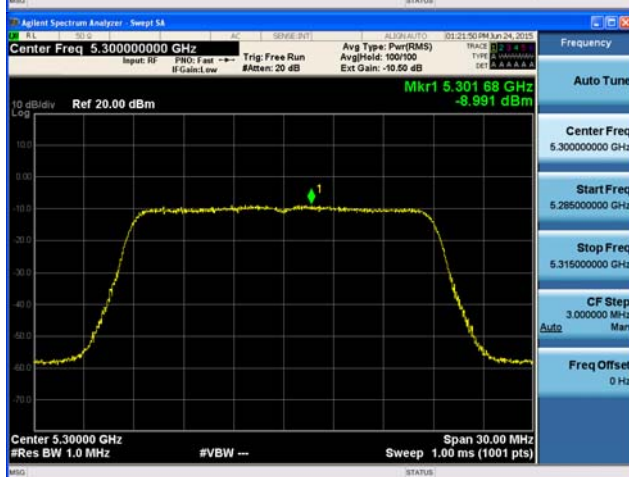
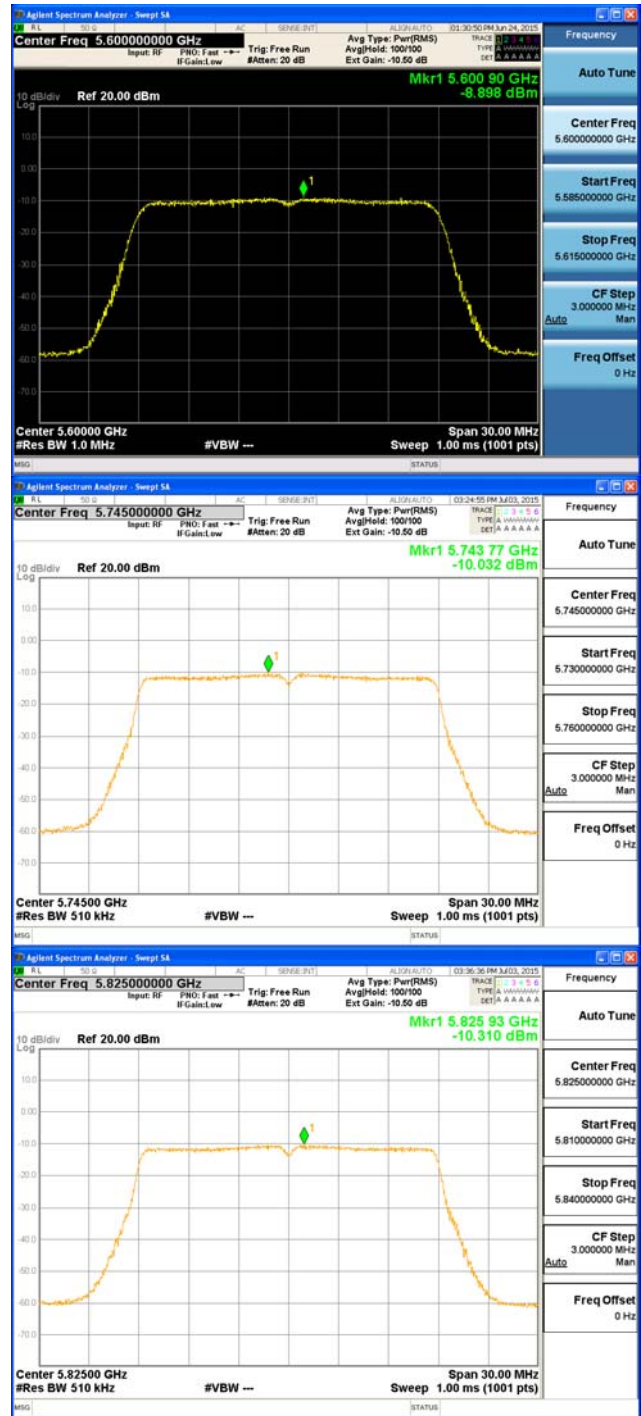
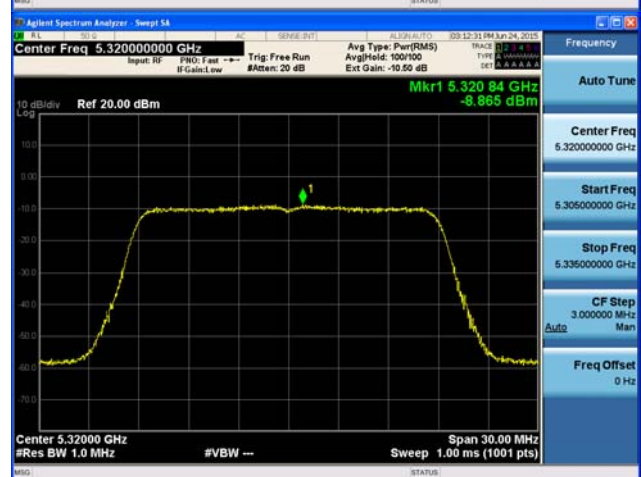
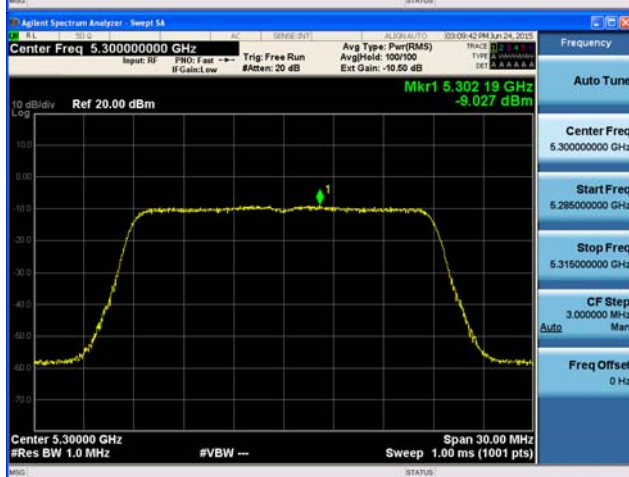
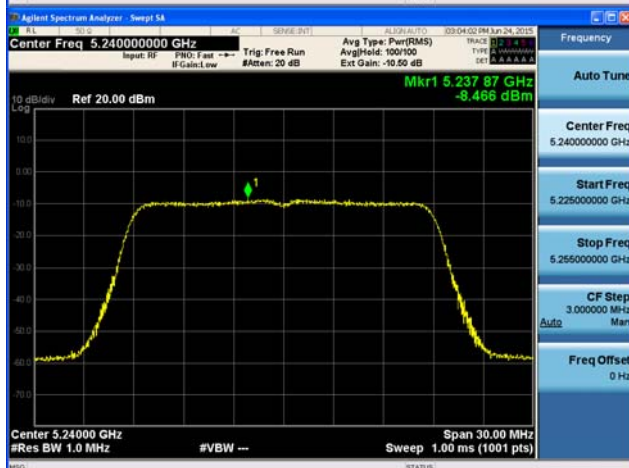




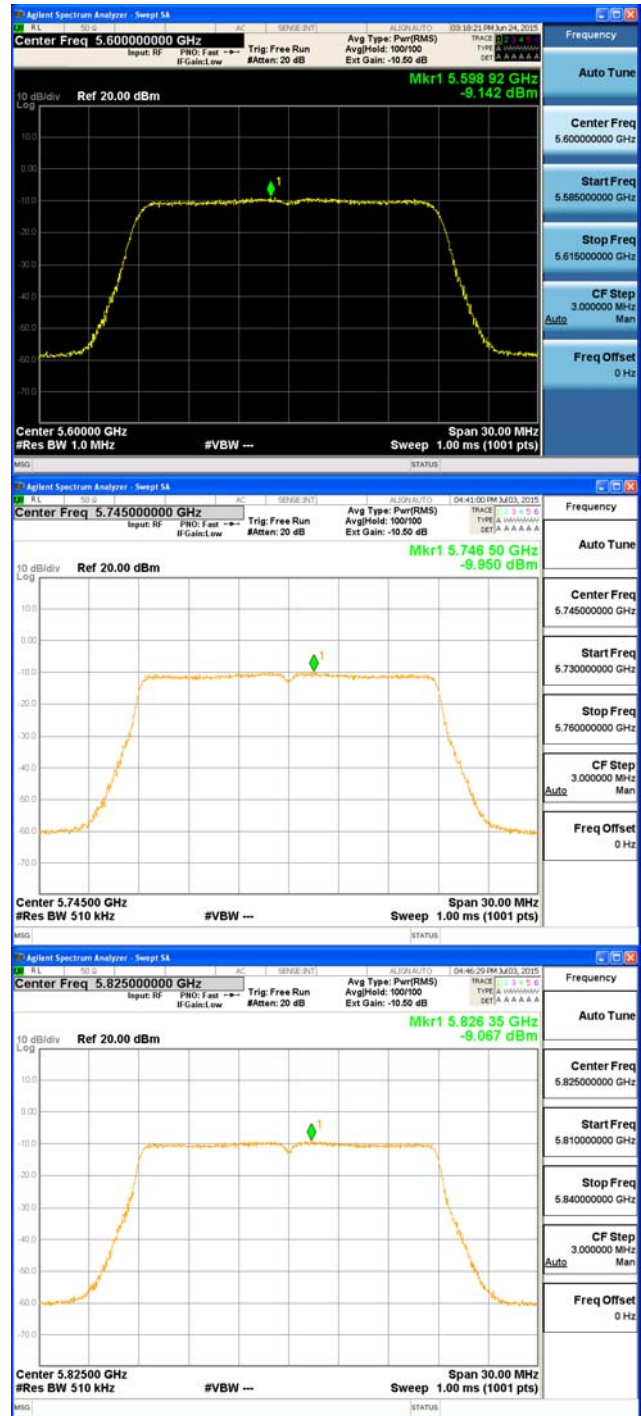
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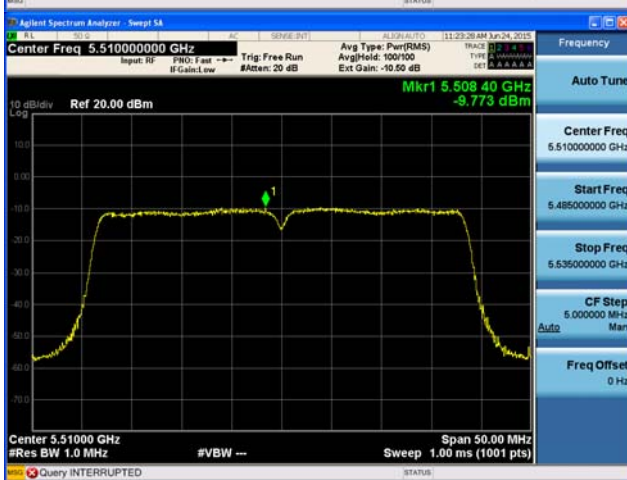
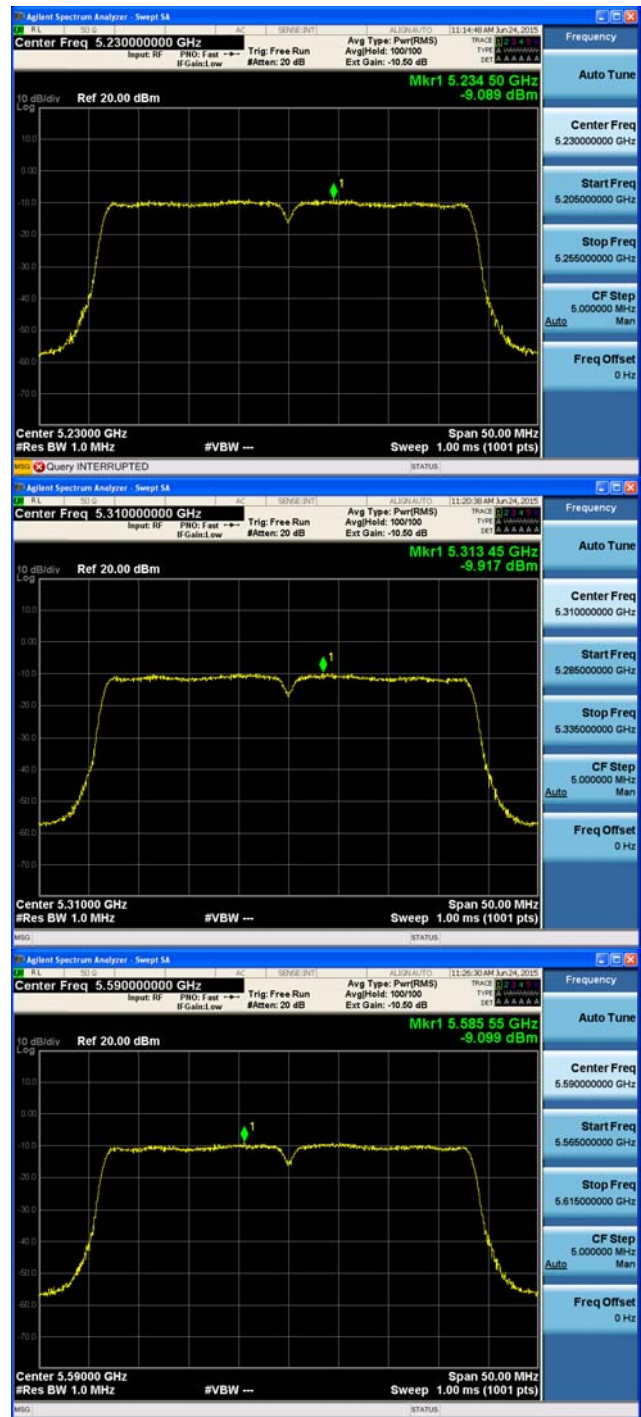
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Ant : A3_802.11ac_VHT20 (1)



Ant : A3_802.11ac_VHT20 (2)



Ant : A1_802.11ac_VHT40 (1)



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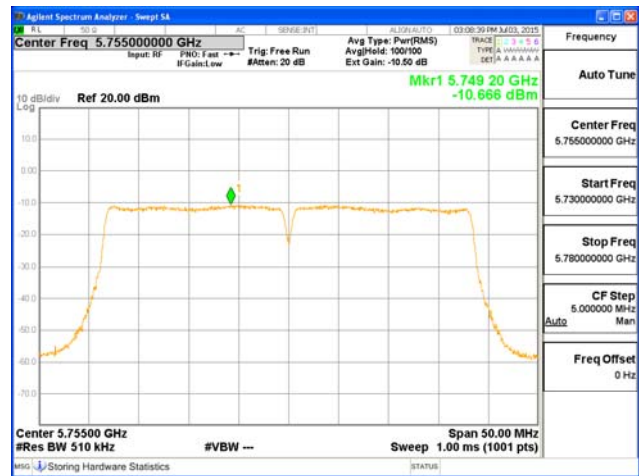
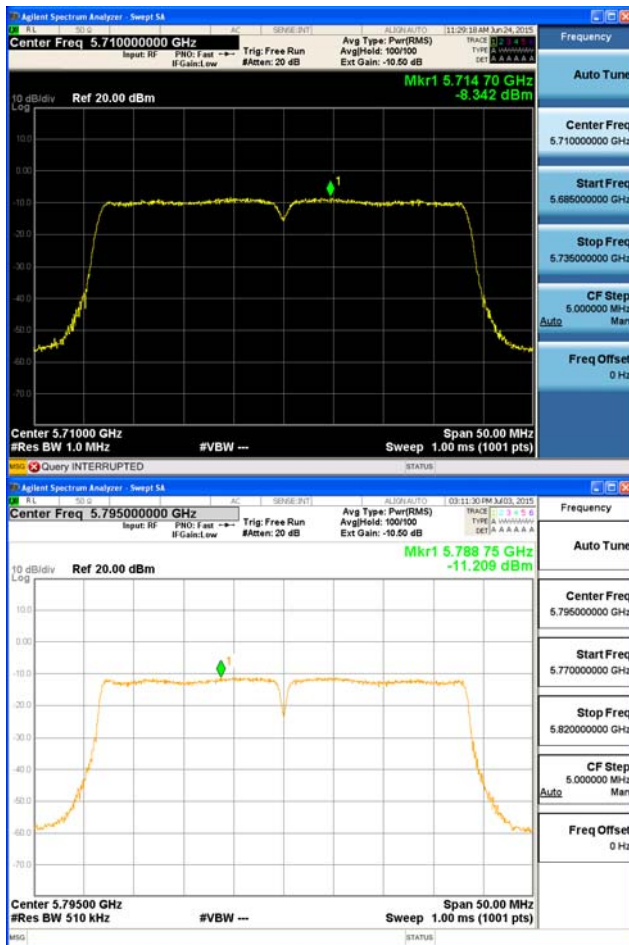
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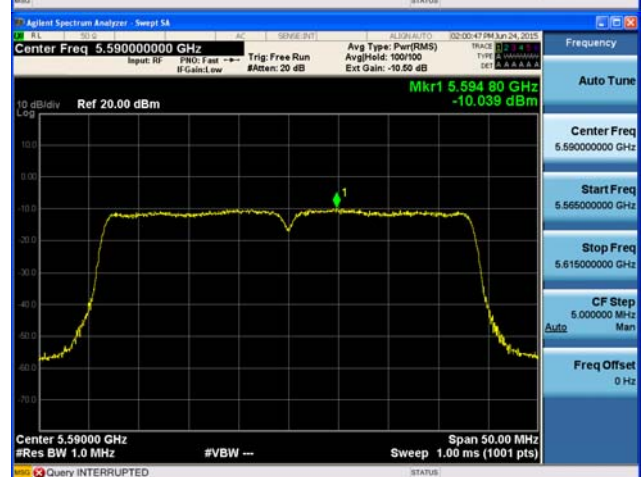
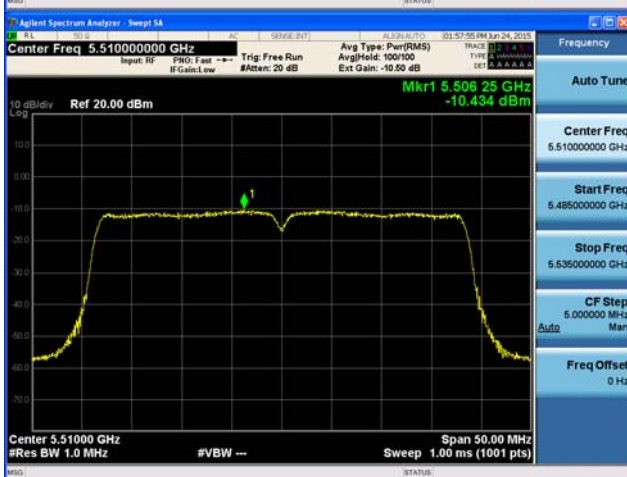
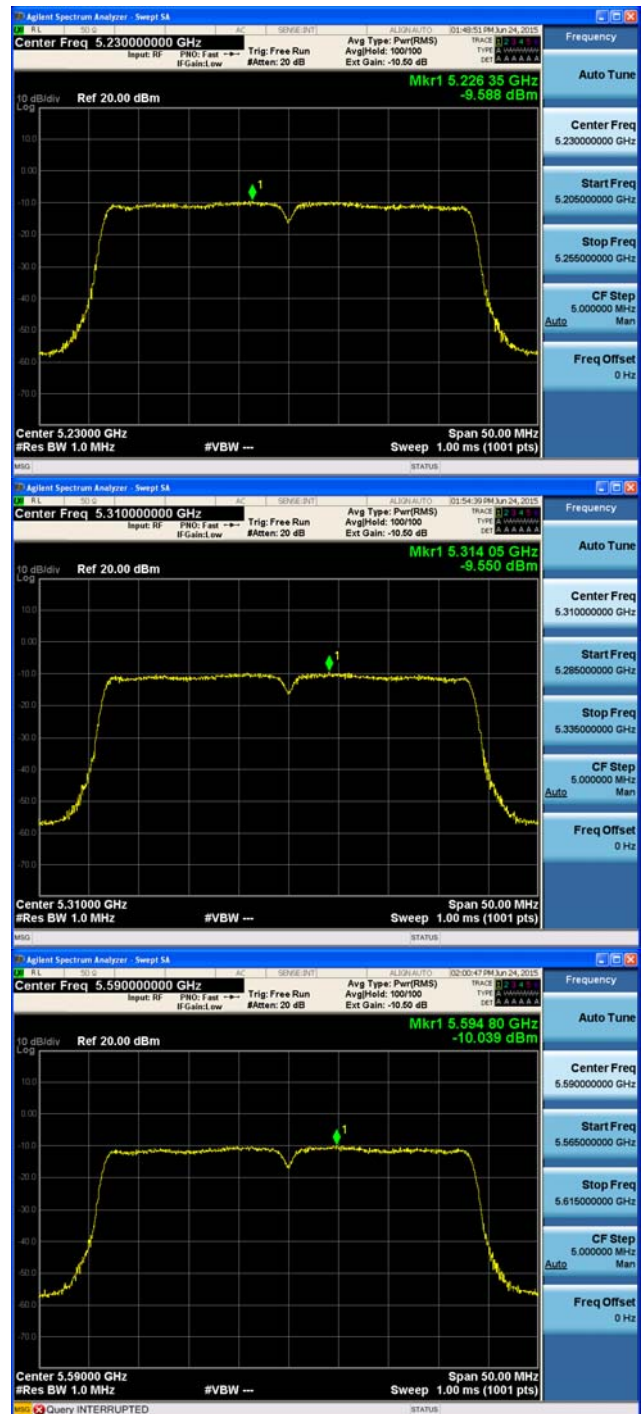
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Ant : A1_802.11ac_VHT40 (2)



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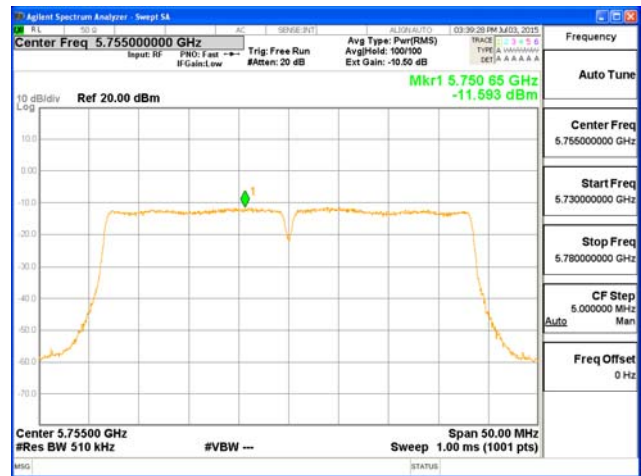
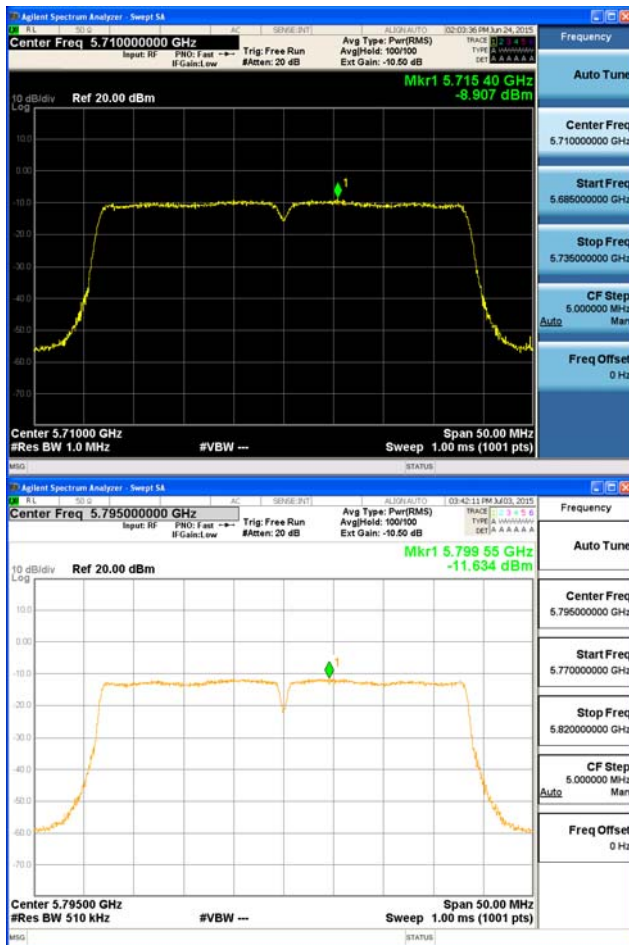
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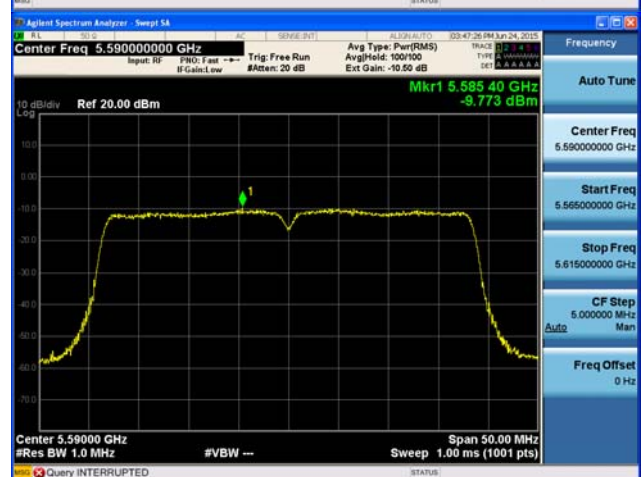
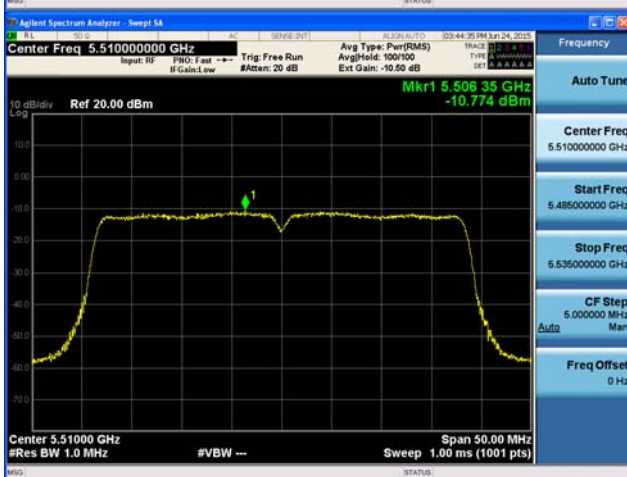
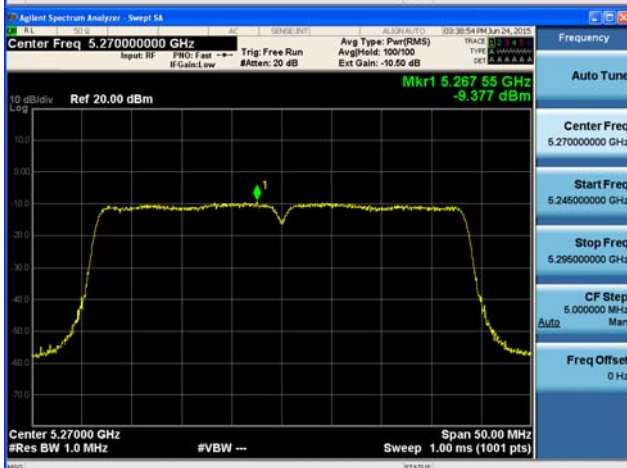
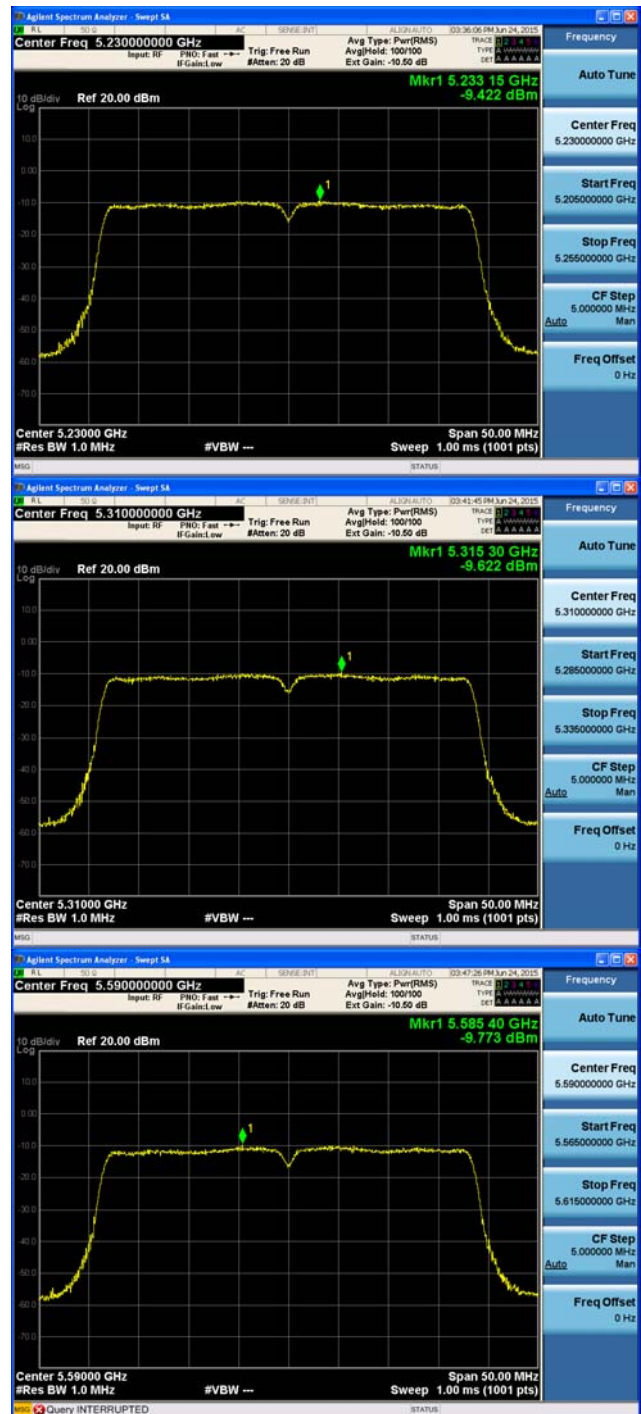
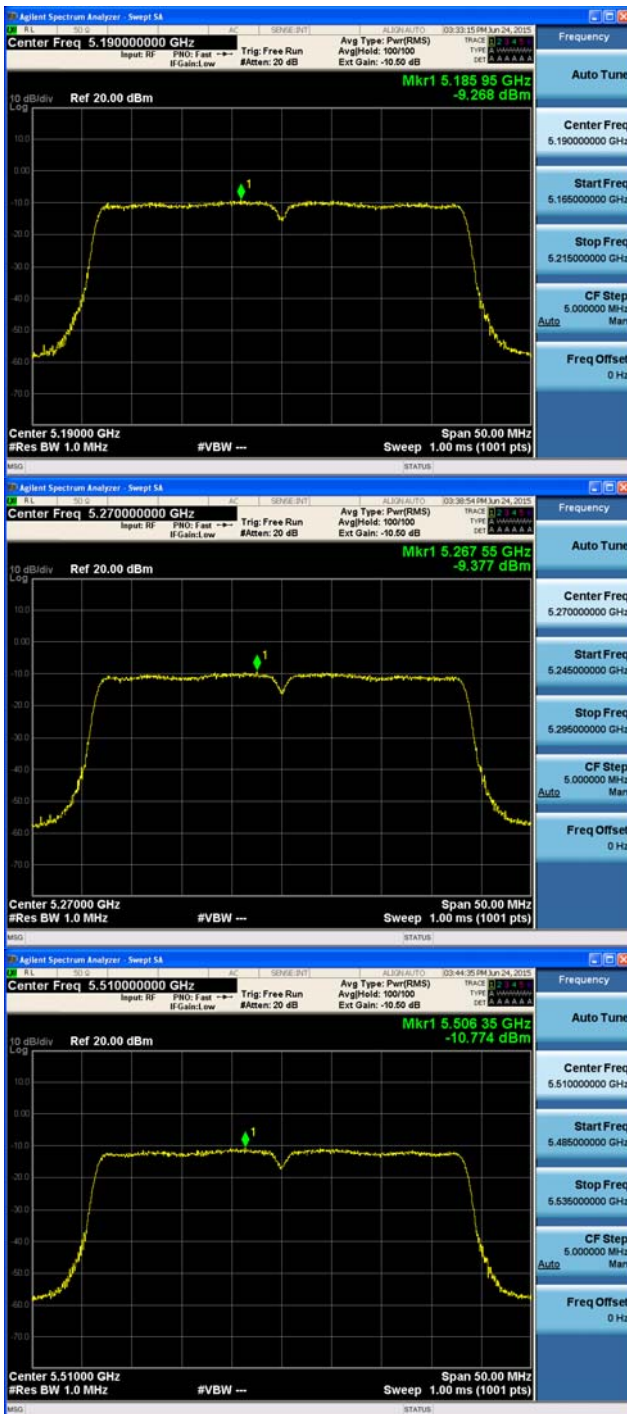
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Ant : A2_802.11ac_VHT40 (2)



Ant : A3_802.11ac_VHT40 (1)



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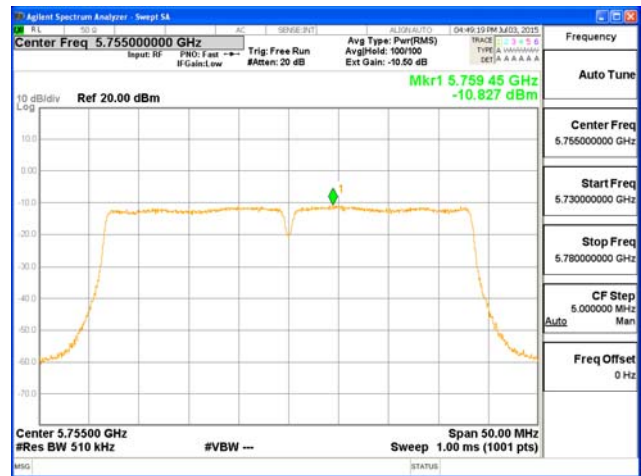
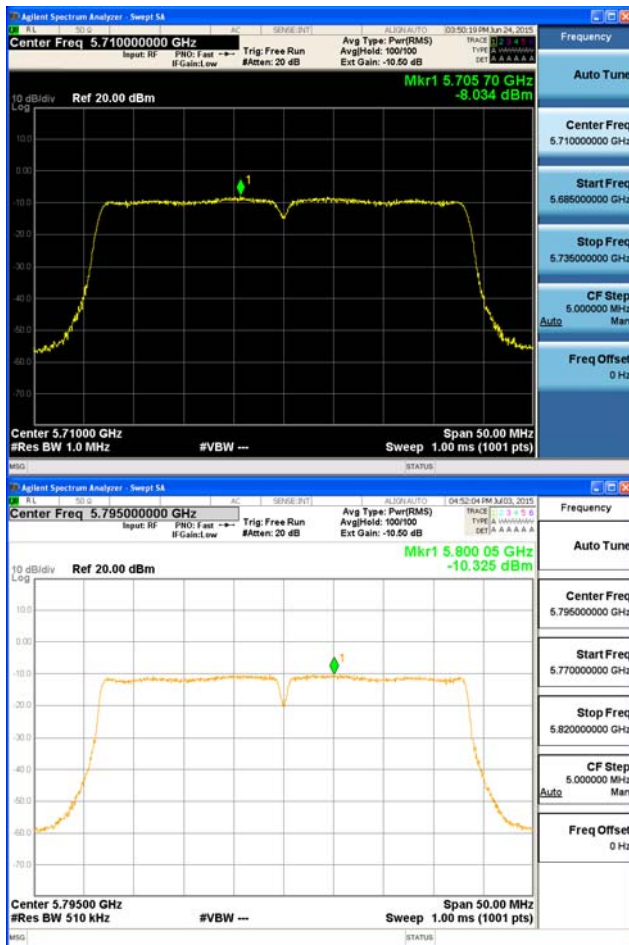
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Ant : A3_802.11ac_VHT40 (2)



Ant : A1_802.11ac_VHT80



Ant : A2_802.11ac_VHT80



Ant : A3_802.11ac_VHT80

2.1.6 Frequency Stability

Procedure:

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -40°C and $+55^{\circ}\text{C}$. The temperature was incremented by 10°C (5°C) intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

Data for the worst case channel is shown below.

Temperature ($^{\circ}\text{C}$)	-40	-30	-20	-10	0
Frequency	Mesured Frequency Error (kHz)				
5180 MHz	52.992	72.105	99.857	83.639	90.922
5200 MHz	57.093	58.308	81.344	87.518	86.733
5240 MHz	50.019	76.785	93.306	85.150	81.065
5260 MHz	48.477	60.699	72.112	75.425	62.395
5300 MHz	51.619	69.912	77.561	89.910	84.103
5320 MHz	35.506	60.957	81.238	71.884	71.293
5500 MHz	50.609	91.301	97.134	91.056	87.335
5600 MHz	53.637	90.254	91.167	93.990	86.236
5720 MHz	29.147	78.550	85.720	74.990	87.155
5745 MHz	48.743	58.594	69.010	90.121	84.010
5785 MHz	48.895	79.268	85.591	70.670	73.004
5825 MHz	38.150	63.850	74.571	88.319	87.389

Temperature (°C)	10	20	30	40	50	55
Frequency	Measured Frequency Error (kHz)					
5180 MHz	78.726	78.152	54.443	23.814	13.553	-5.156
5200 MHz	61.026	62.364	30.474	6.060	-4.172	-15.822
5240 MHz	67.249	48.827	33.338	8.431	-17.004	-7.496
5260 MHz	66.492	57.165	35.157	3.160	-3.945	-20.609
5300 MHz	71.781	61.612	37.553	15.912	-21.291	-17.889
5320 MHz	67.002	37.557	23.614	19.760	-26.102	-33.896
5500 MHz	74.882	59.030	56.128	23.537	-6.633	-29.784
5600 MHz	71.005	51.143	54.448	17.829	1.992	-21.394
5720 MHz	79.376	58.995	35.715	8.424	-17.420	-25.171
5745 MHz	58.471	65.253	17.031	-3.280	-24.279	-21.688
5785 MHz	68.947	59.486	31.505	8.678	-16.765	-36.169
5825 MHz	59.975	52.820	27.704	-7.112	-15.601	-33.213

Note :

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature range as tested.

2.1.7 Conducted Spurious Emissions

Procedure:

KDB 789033 Conducted Measurements.

Measurement Data: Next Page



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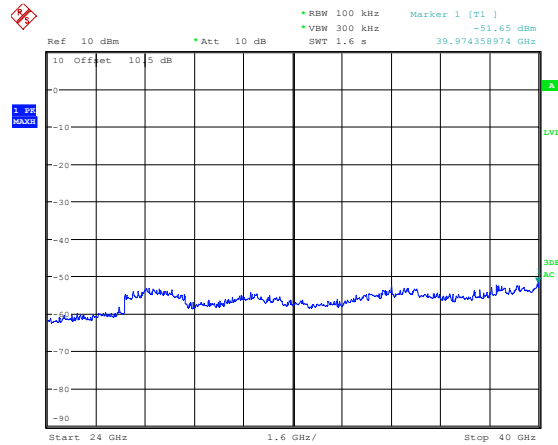
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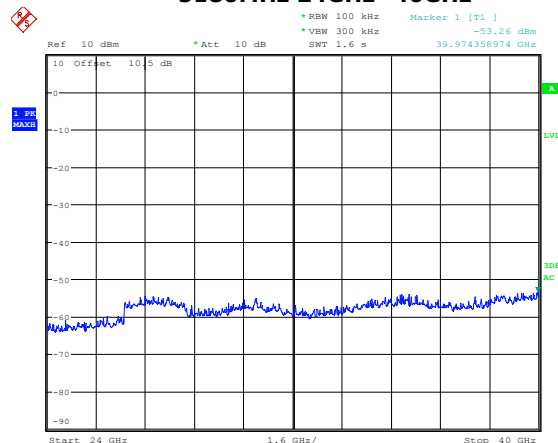
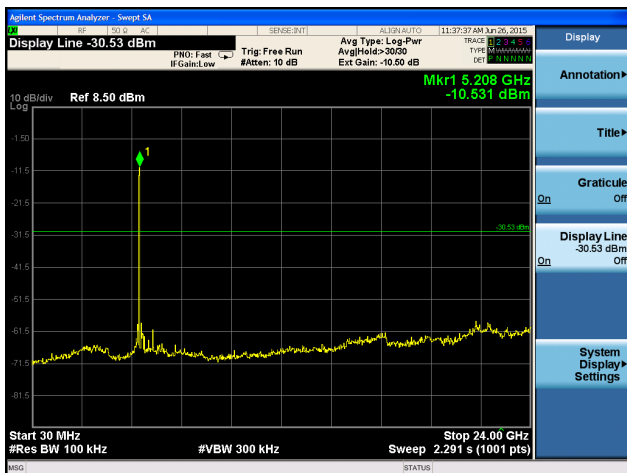
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ANT1_802.11a



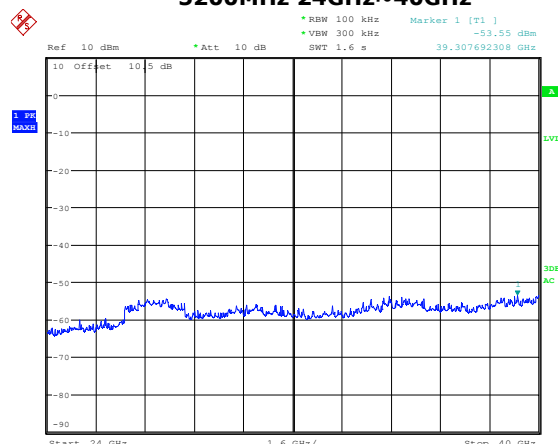
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Date: 4.JUL.2015 09:08:07

5200MHz 30MHz~24GHz



Date: 4.JUL.2015 09:08:40

5240MHz 30MHz~24GHz

5240MHz 24GHz~40GHz



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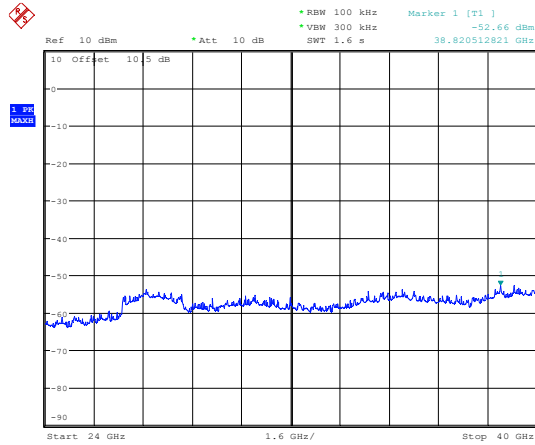
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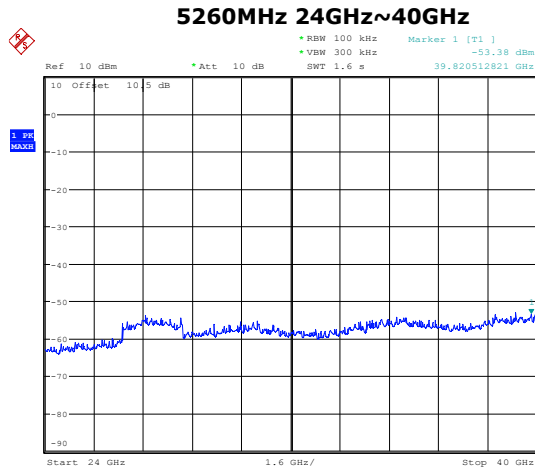
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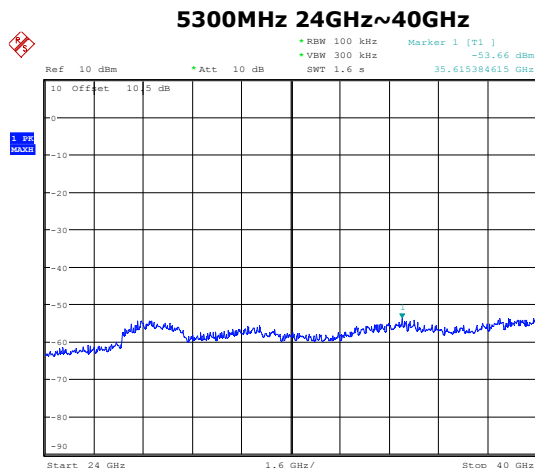
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5320MHz 24GHz~40GHz



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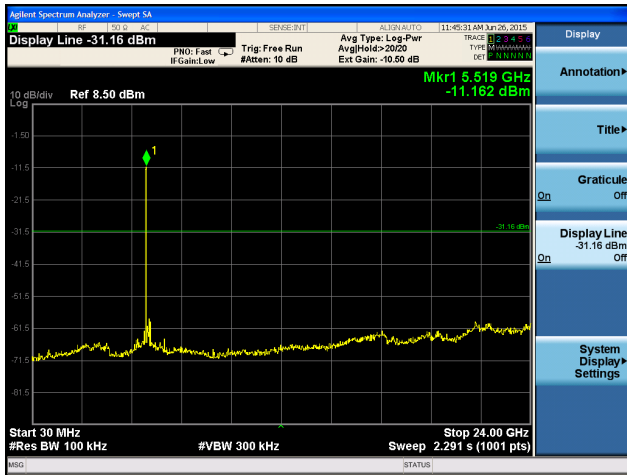
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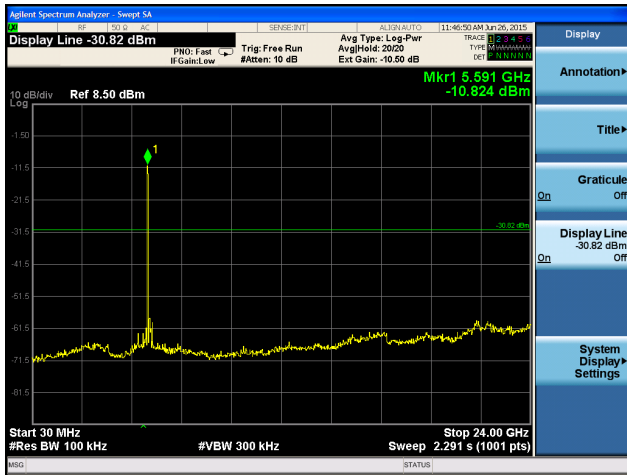
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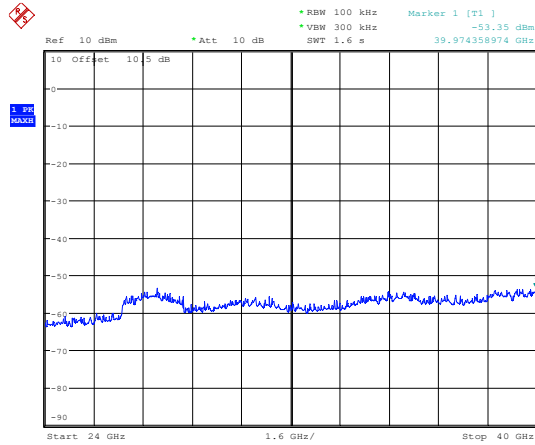
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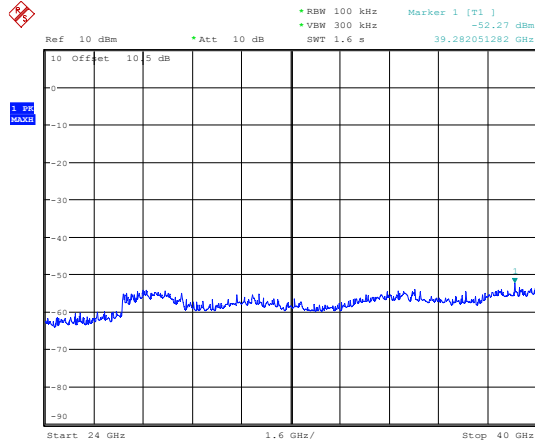


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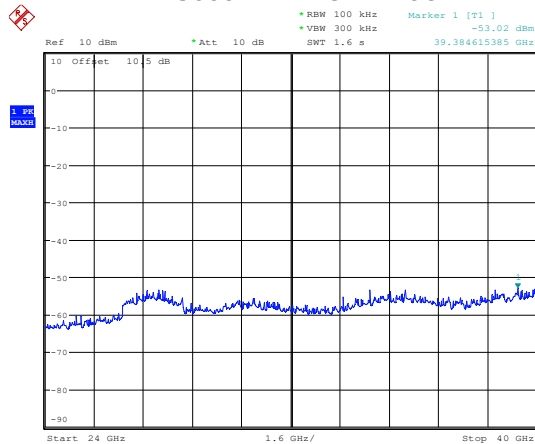
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5600MHz 24GHz~40GHz



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5720MHz 24GHz~40GHz



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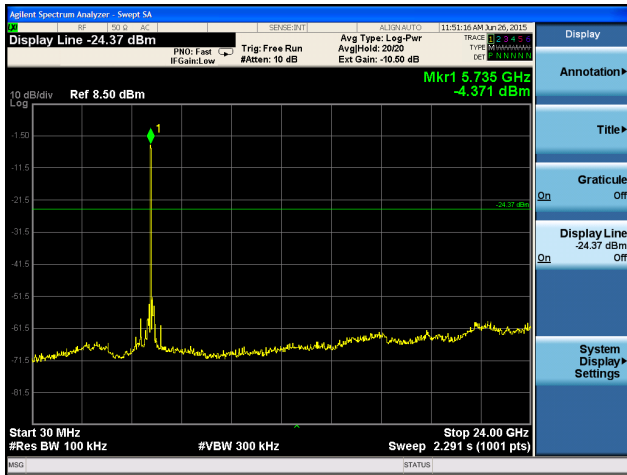
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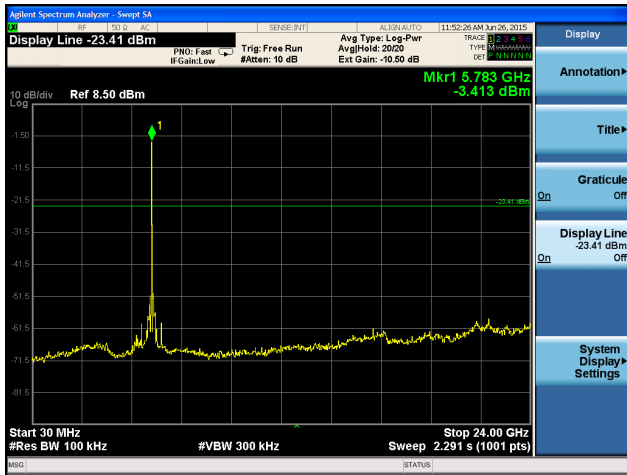
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Fax: +82-31-624-9501

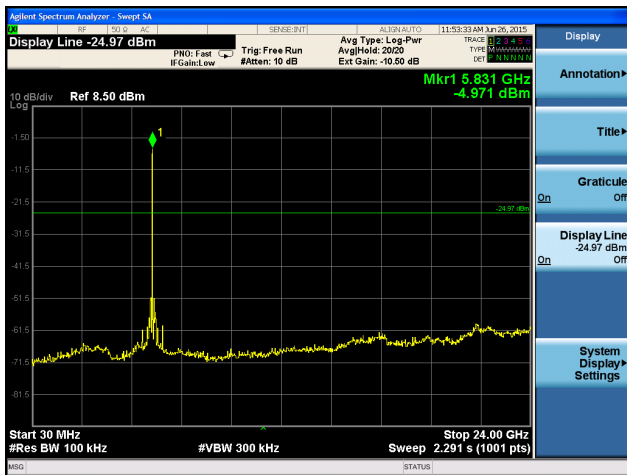
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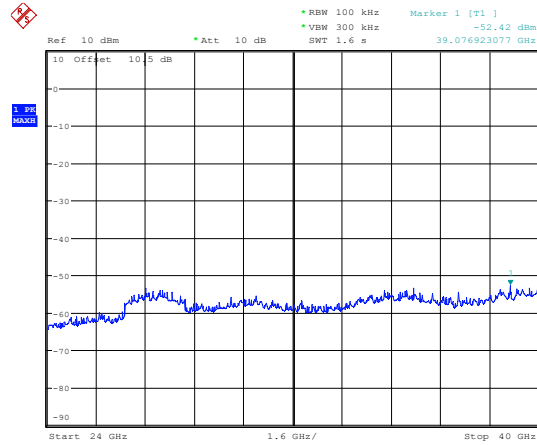
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5785MHz 30MHz~24GHz

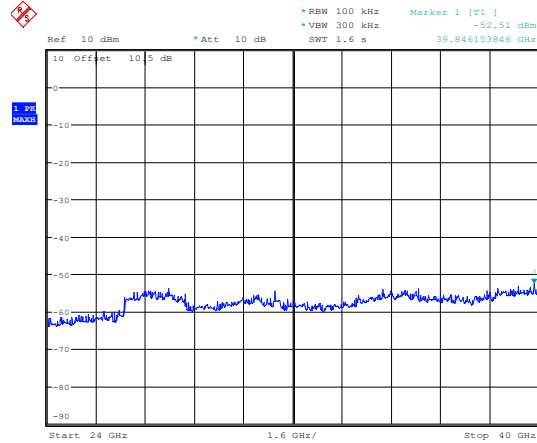


5825MHz 30MHz~24GHz



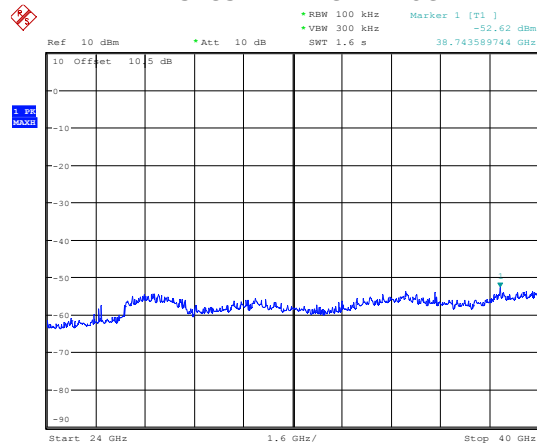
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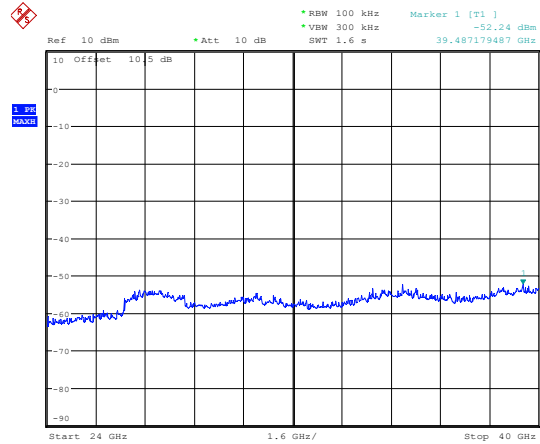
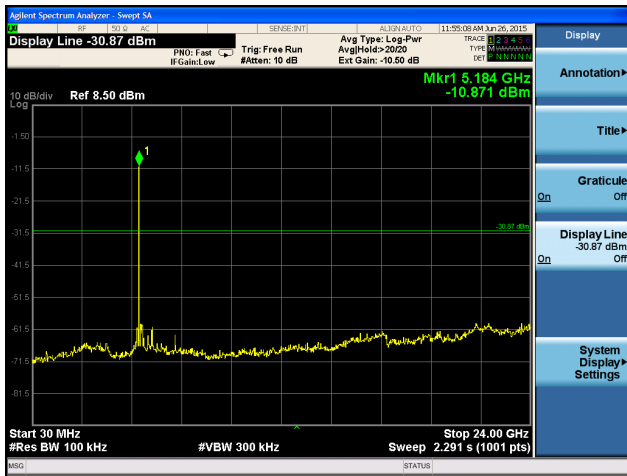


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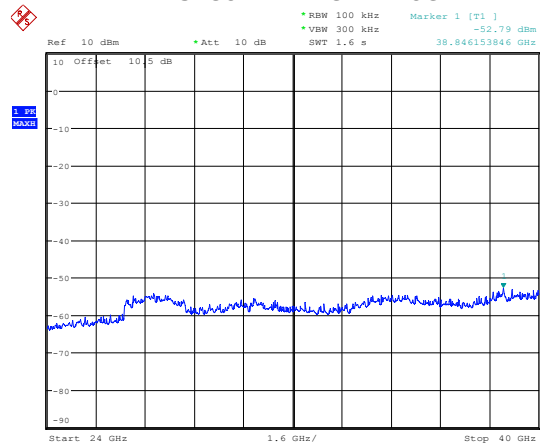


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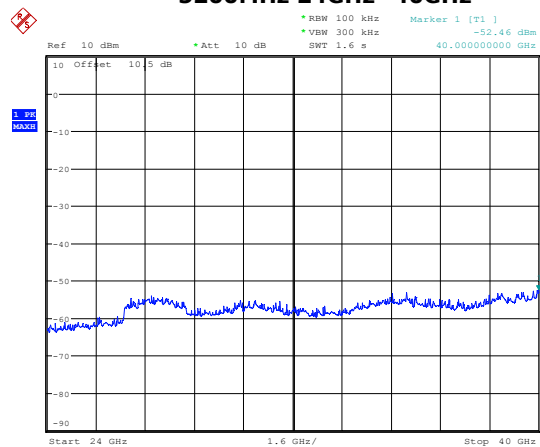
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5200MHz 30MHz~24GHz



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5240MHz 30MHz~24GHz

5240MHz 24GHz~40GHz



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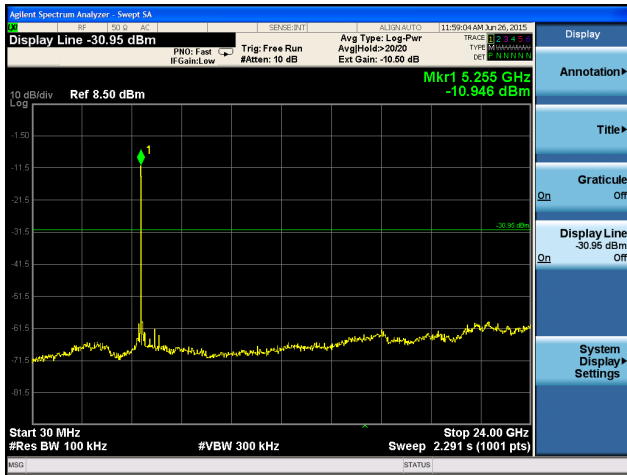
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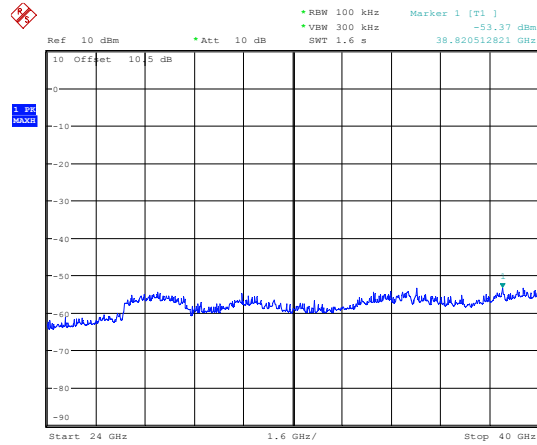
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5300MHz 30MHz~24GHz

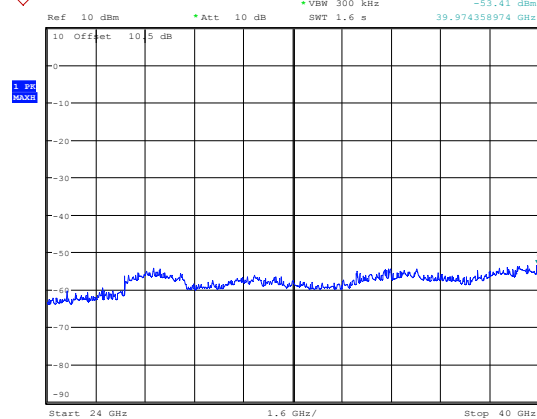


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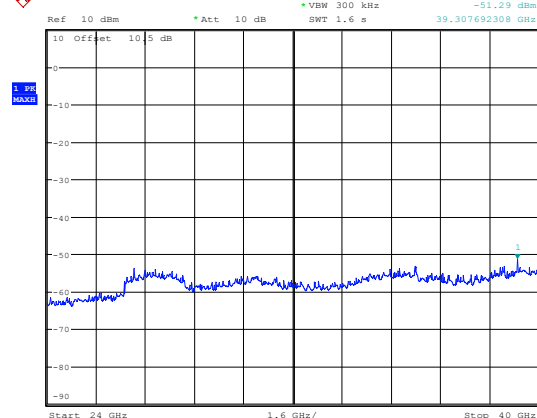
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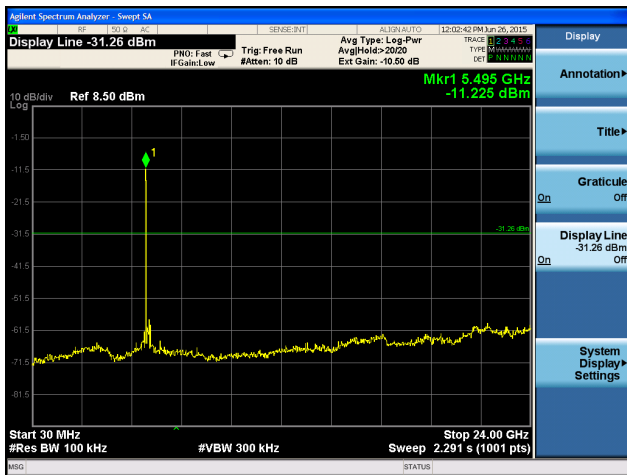
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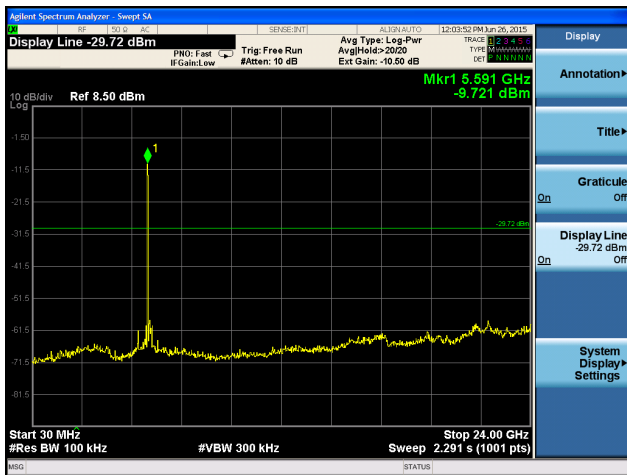


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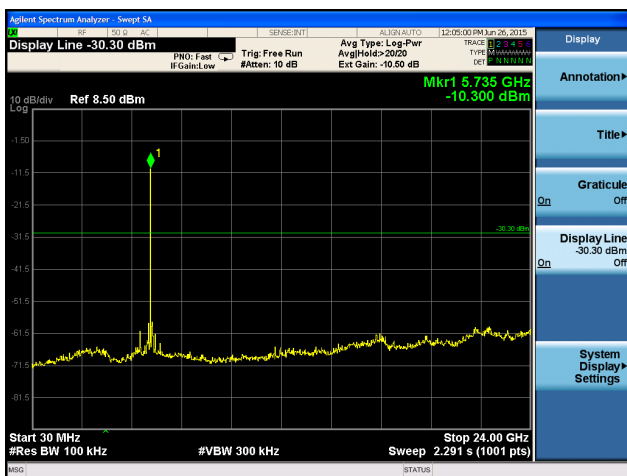
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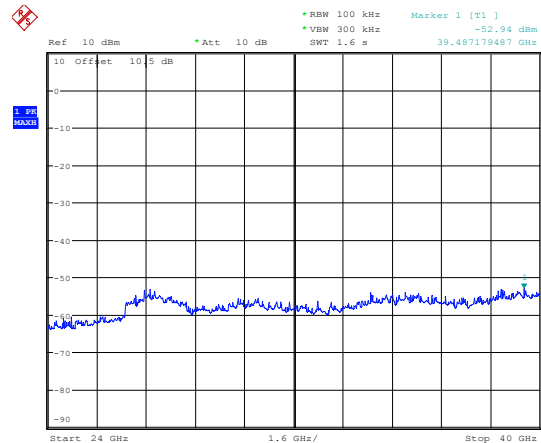
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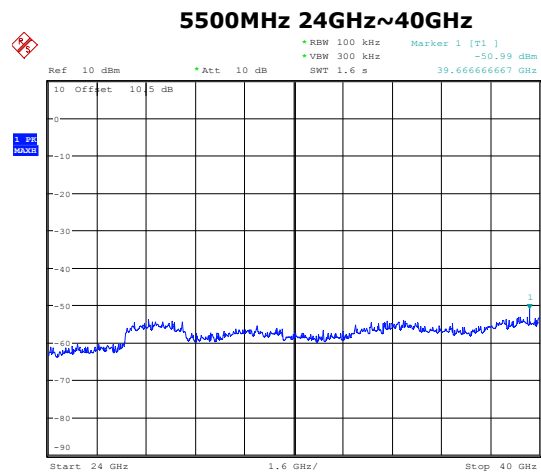
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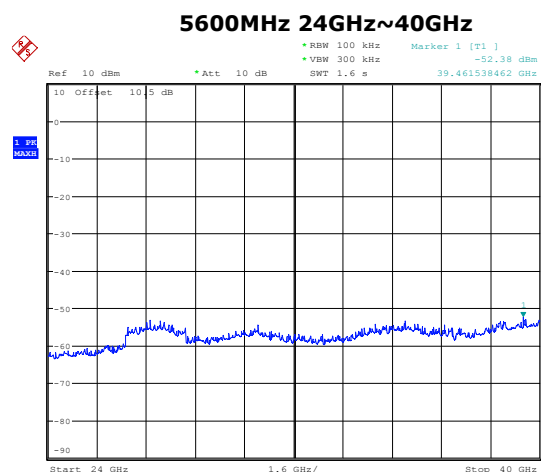
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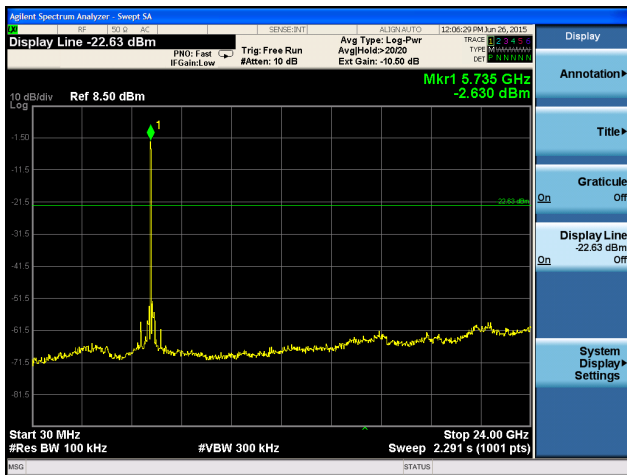
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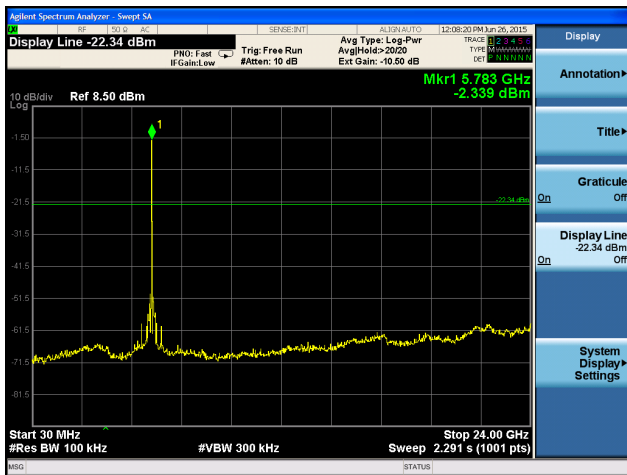
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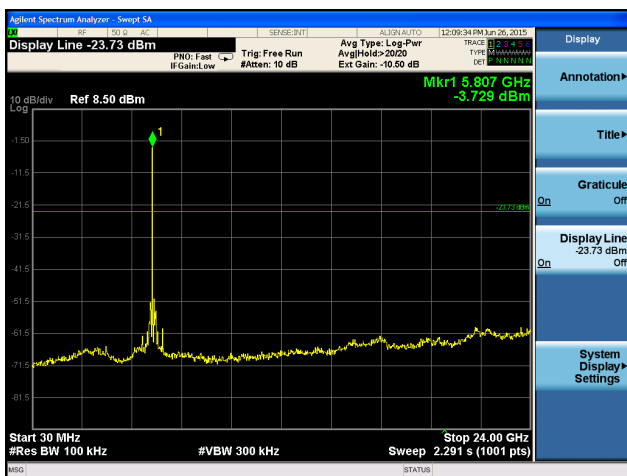
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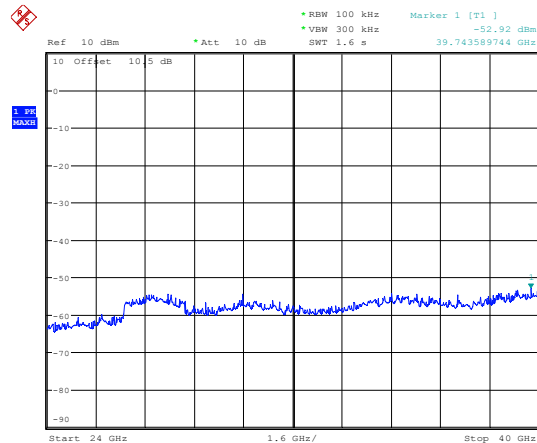
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5785MHz 30MHz~24GHz

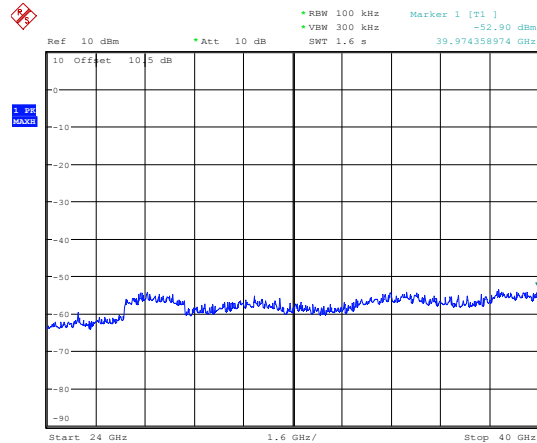


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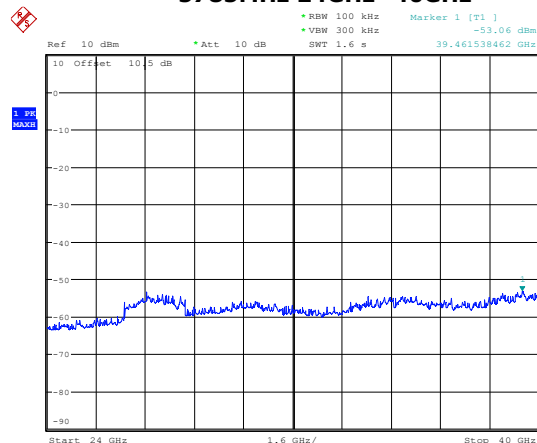
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5785MHz 24GHz~40GHz



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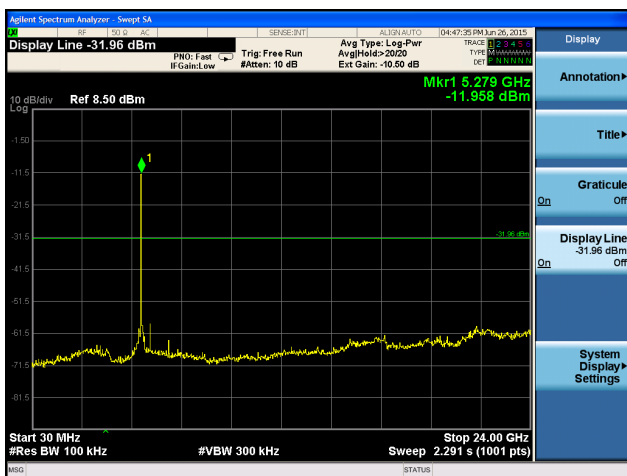
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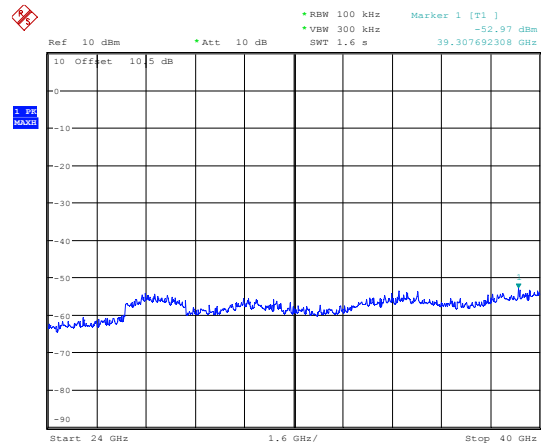
5190MHz 30MHz~24GHz



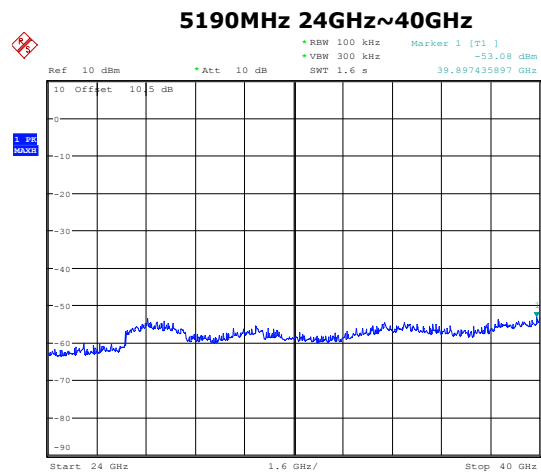
5230MHz 30MHz~24GHz



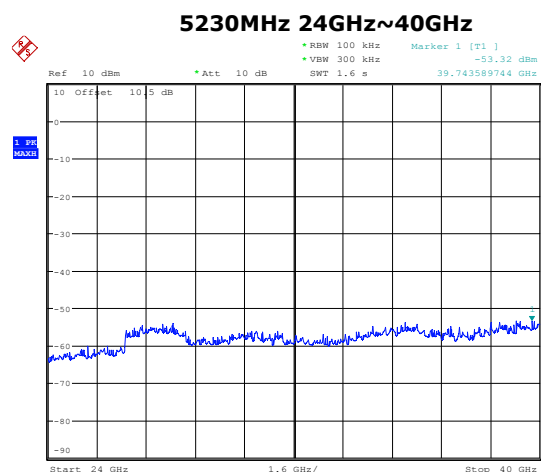
5270MHz 30MHz~24GHz



Date: 4.JUL.2015 09:43:15

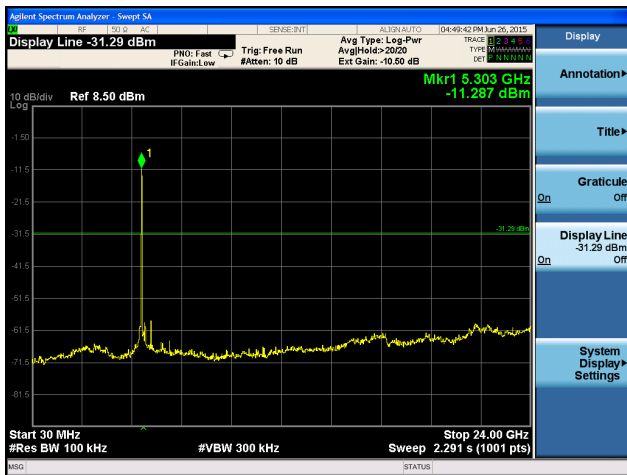


Date: 4.JUL.2015 09:43:25



Date: 4.JUL.2015 09:43:44

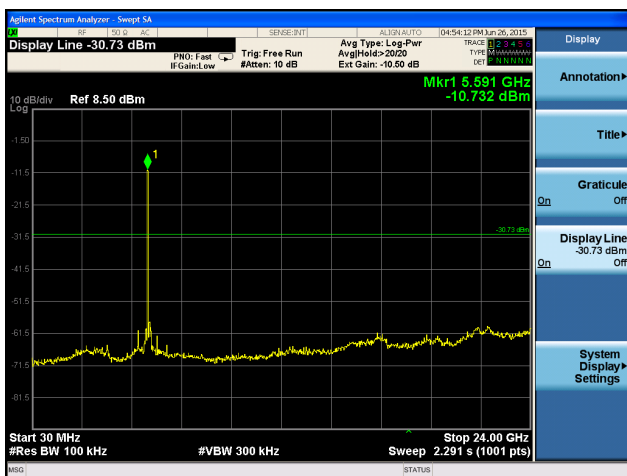
5270MHz 24GHz~40GHz



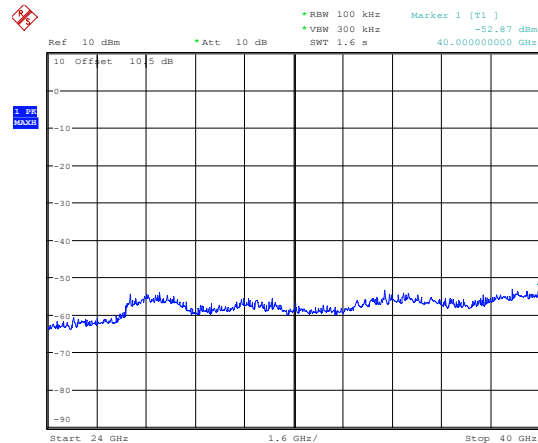
5310MHz 30MHz~24GHz



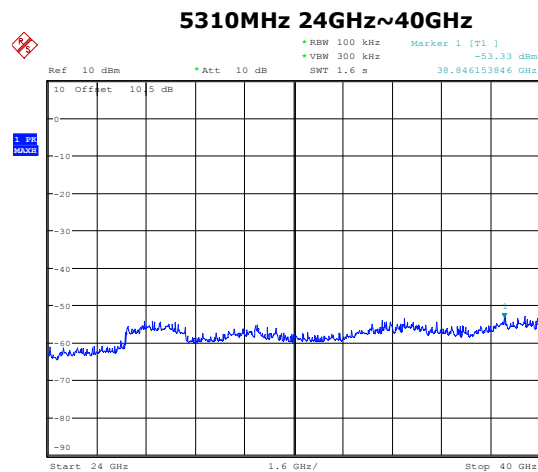
5510MHz 30MHz~24GHz



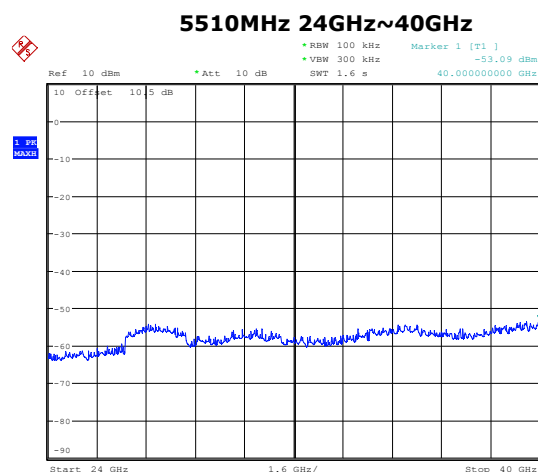
5590MHz 30MHz~24GHz



Date: 4.JUL.2015 09:43:56

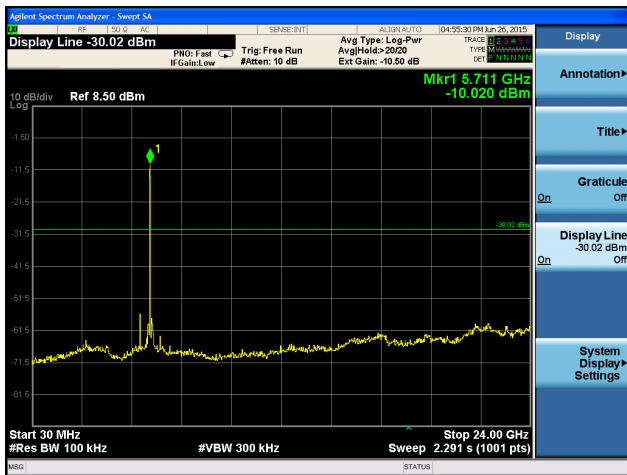


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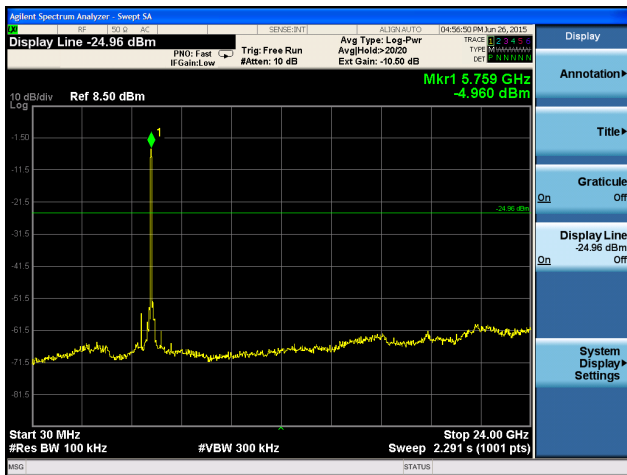


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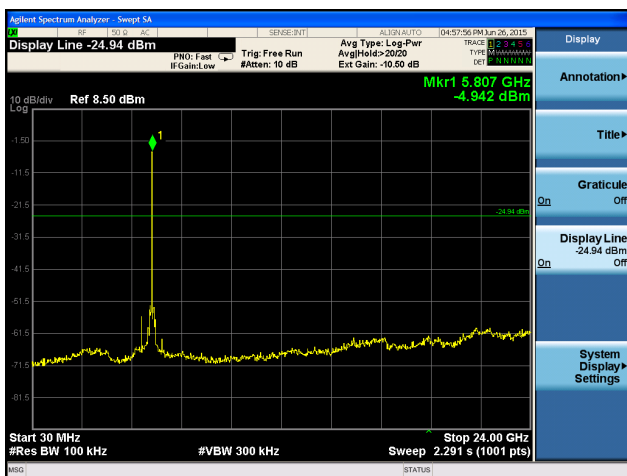
5590MHz 24GHz~40GHz



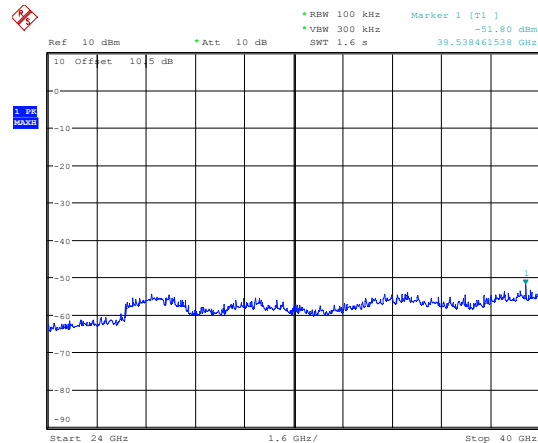
5710MHz 30MHz~24GHz



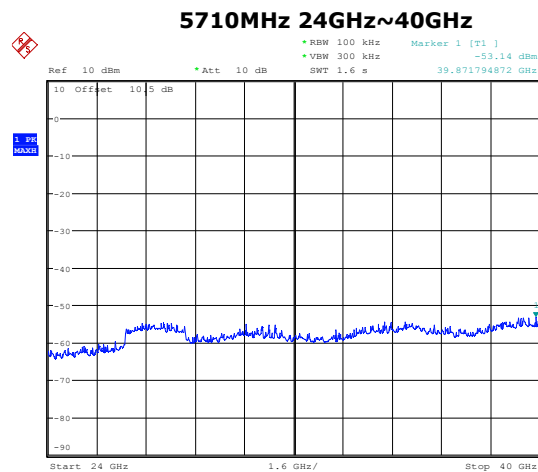
5755MHz 30MHz~24GHz



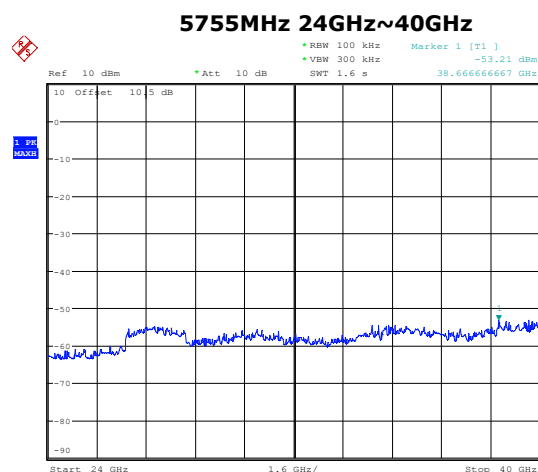
5795MHz 30MHz~24GHz



Date: 4.JUL.2015 09:50:41



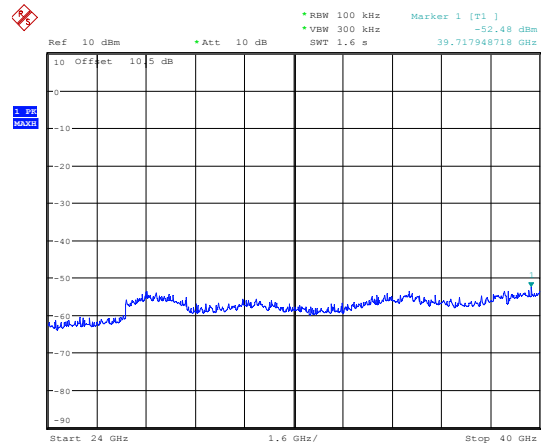
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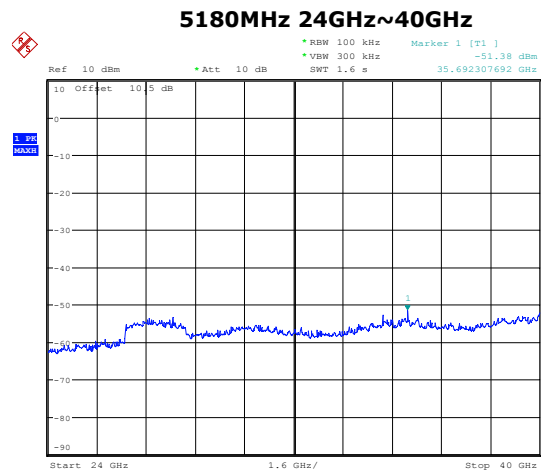
5795MHz 24GHz~40GHz

ANT1_802.11ac



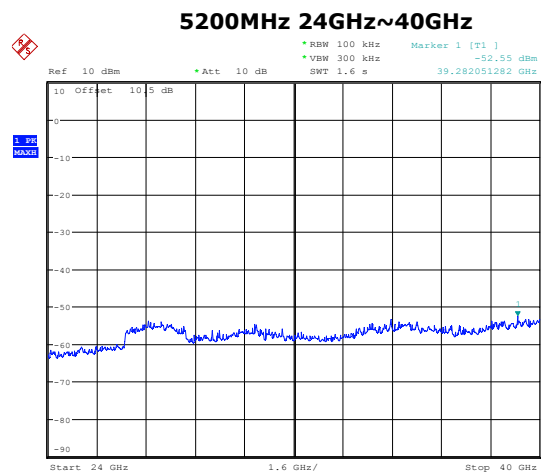
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5180MHz 30MHz~24GHz



Date: 4.JUL.2015 09:19:42

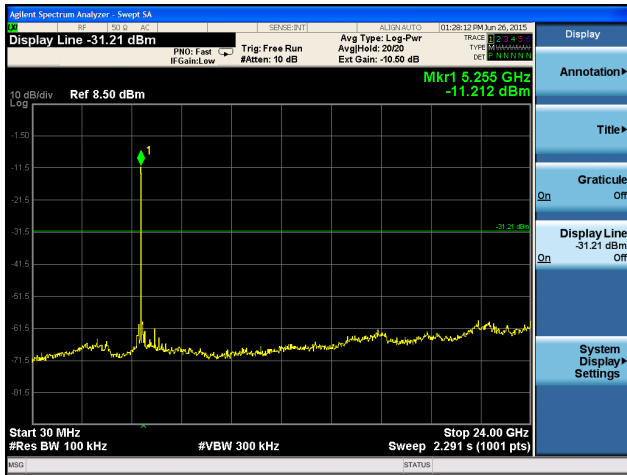
5200MHz 30MHz~24GHz



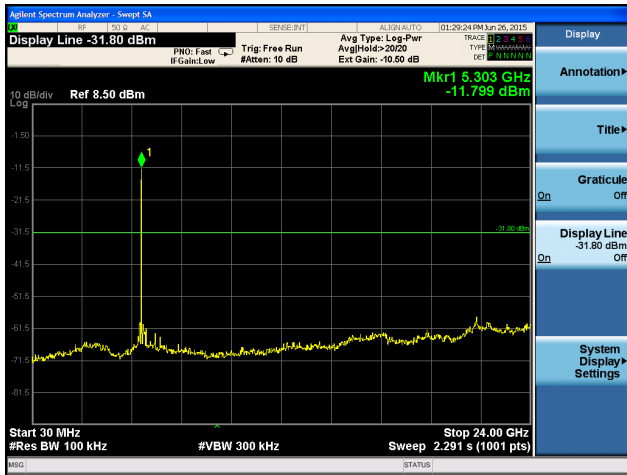
Date: 4.JUL.2015 09:20:05

5240MHz 30MHz~24GHz

5240MHz 24GHz~40GHz



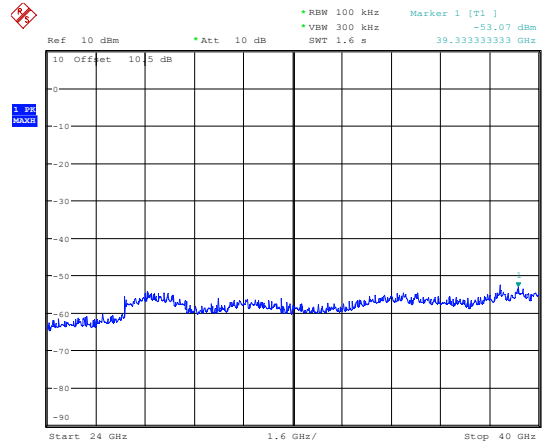
5260MHz 30MHz~24GHz



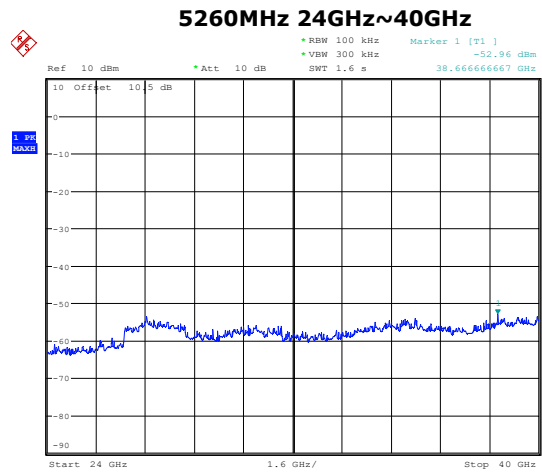
5300MHz 30MHz~24GHz



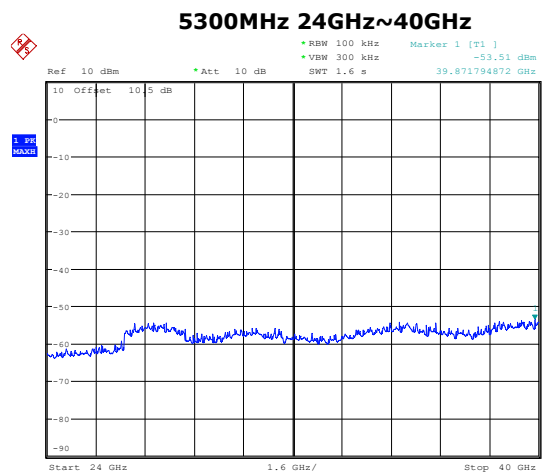
5320MHz 30MHz~24GHz



Date: 4.JUL.2015 09:20:12



Date: 4.JUL.2015 09:20:23



Date: 4.JUL.2015 09:20:33

5320MHz 24GHz~40GHz



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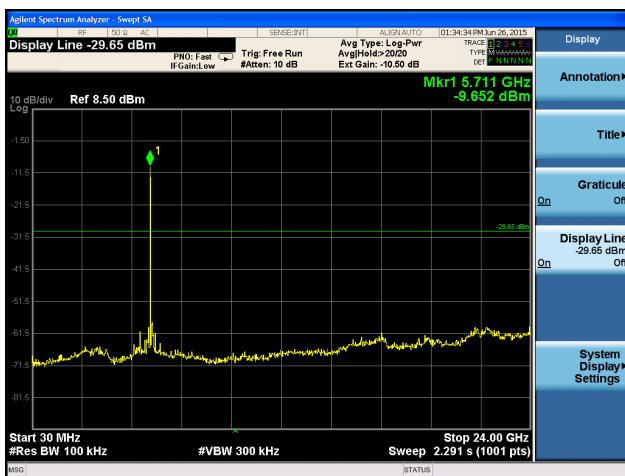
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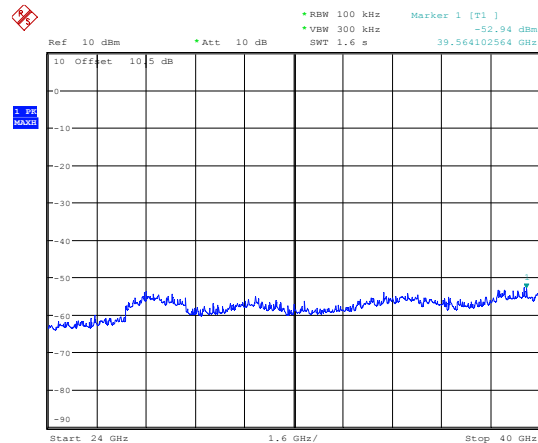
5500MHz 30MHz~24GHz



5600MHz 30MHz~24GHz

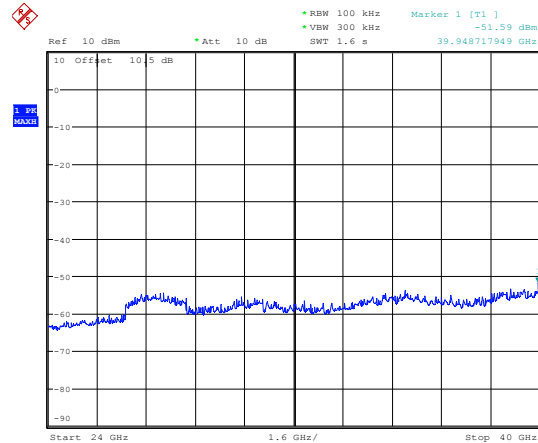


5720MHz 30MHz~24GHz



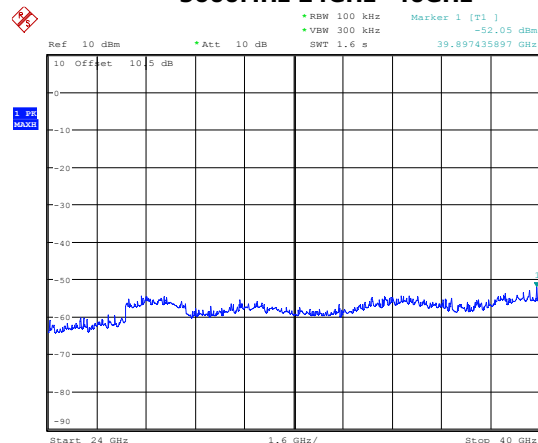
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5500MHz 24GHz~40GHz



Date: 4.JUL.2015 09:20:52

5600MHz 24GHz~40GHz



Date: 4.JUL.2015 09:21:02

5720MHz 24GHz~40GHz



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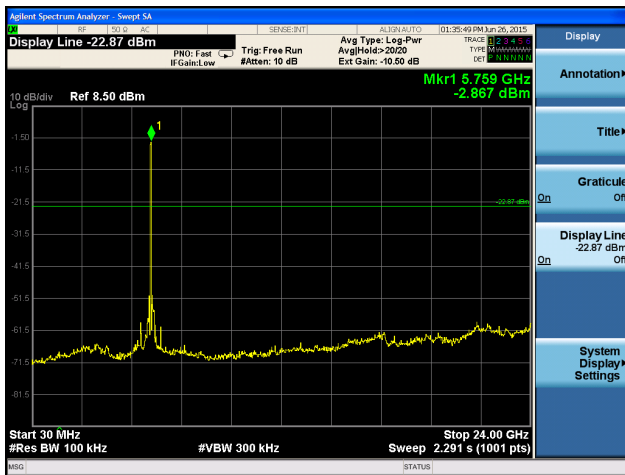
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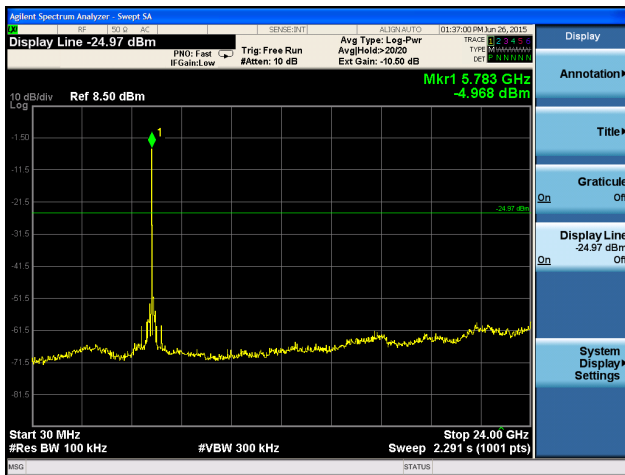
Tel: +82-31-339-9970

Fax: +82-31-624-9501

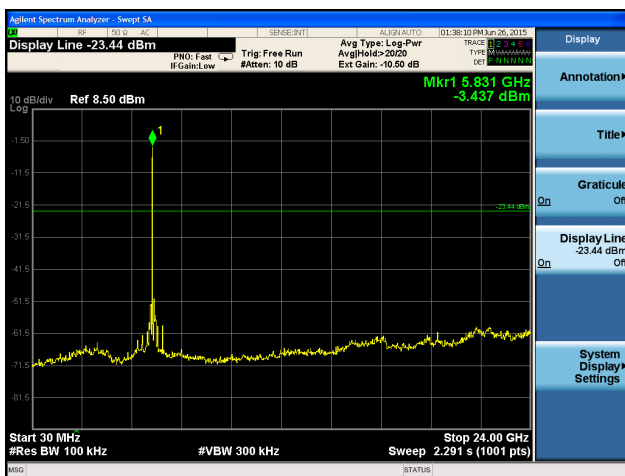
www.e-ctk.com



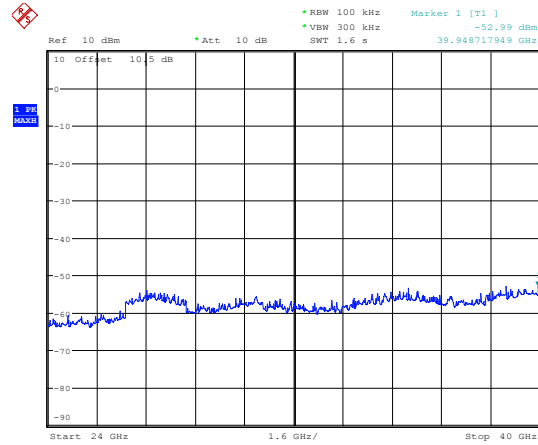
5745MHz 30MHz~24GHz



5785MHz 30MHz~24GHz

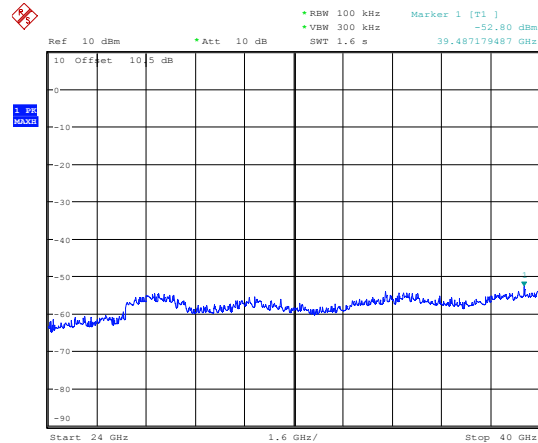


5825MHz 30MHz~24GHz



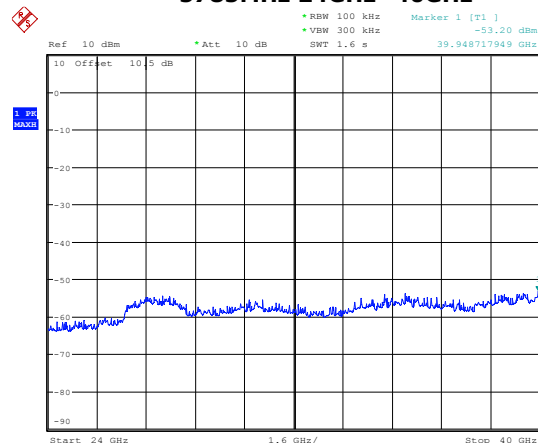
Date: 4.JUL.2015 09:21:11

5745MHz 24GHz~40GHz



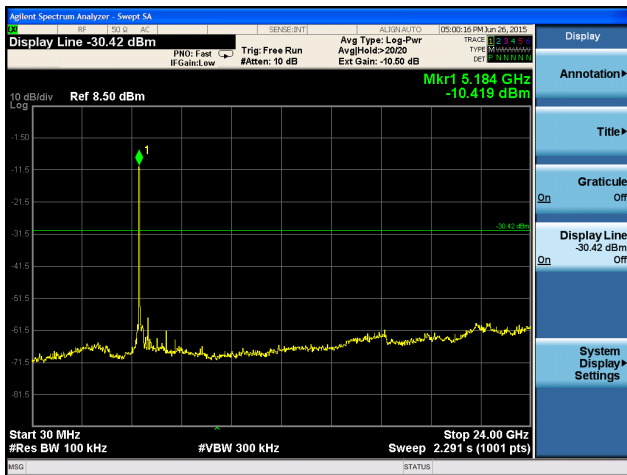
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5785MHz 24GHz~40GHz

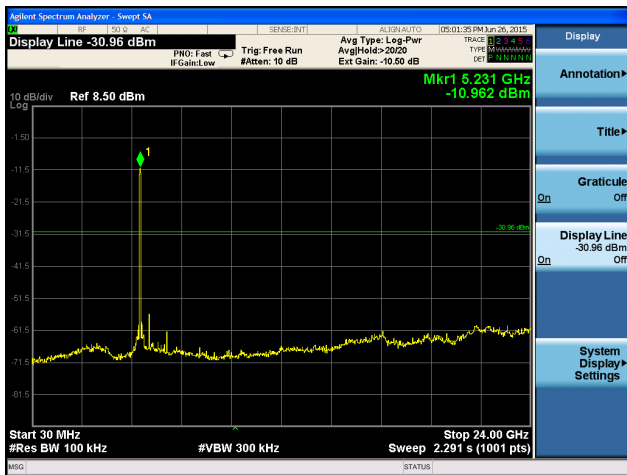


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5825MHz 24GHz~40GHz



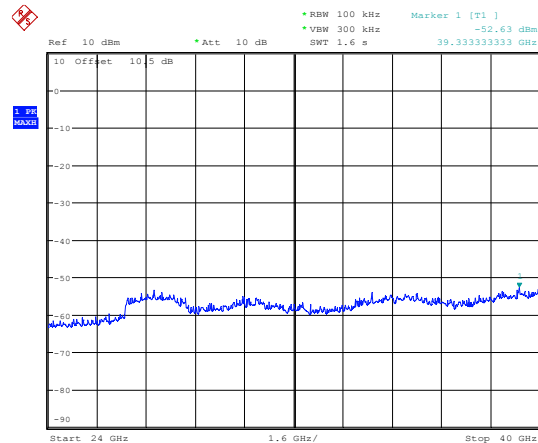
5190MHz 30MHz~24GHz



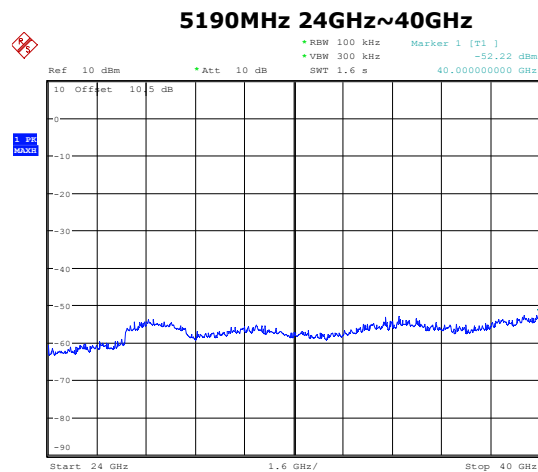
5230MHz 30MHz~24GHz



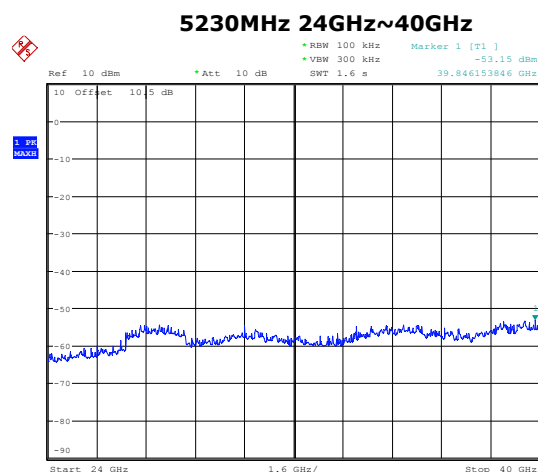
5270MHz 30MHz~24GHz



Date: 4.JUL.2015 09:45:04



Date: 4.JUL.2015 09:45:56



Date: 4.JUL.2015 09:46:05

5270MHz 24GHz~40GHz



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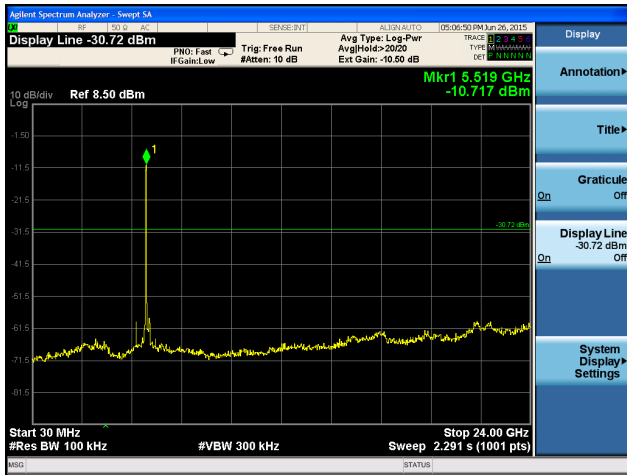
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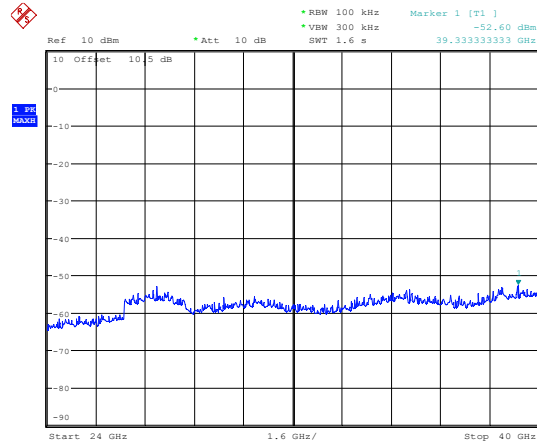
5310MHz 30MHz~24GHz



5510MHz 30MHz~24GHz

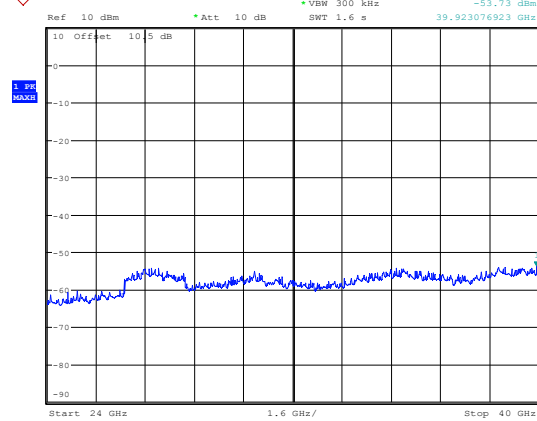


5590MHz 30MHz~24GHz



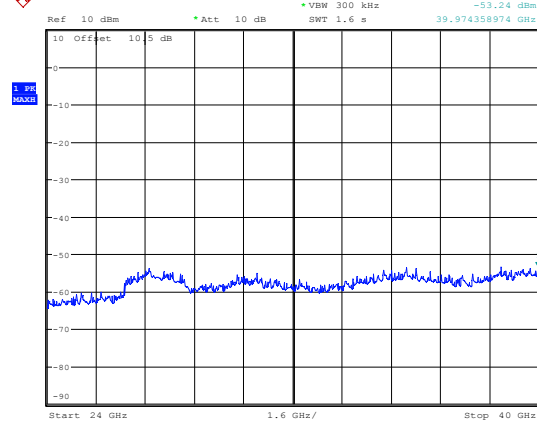
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5310MHz 24GHz~40GHz



Date: 4.JUL.2015 09:46:48

5510MHz 24GHz~40GHz



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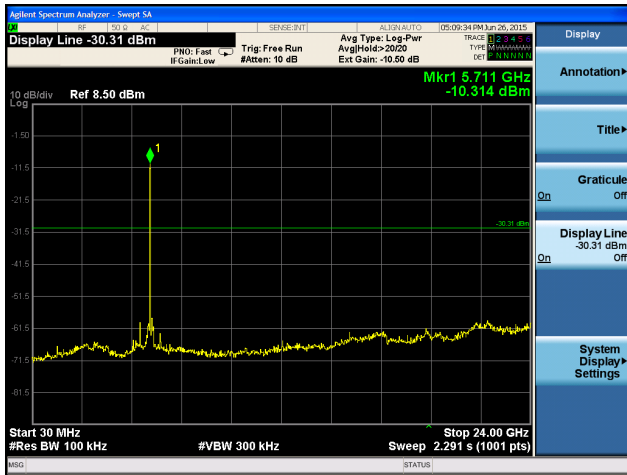
5590MHz 24GHz~40GHz



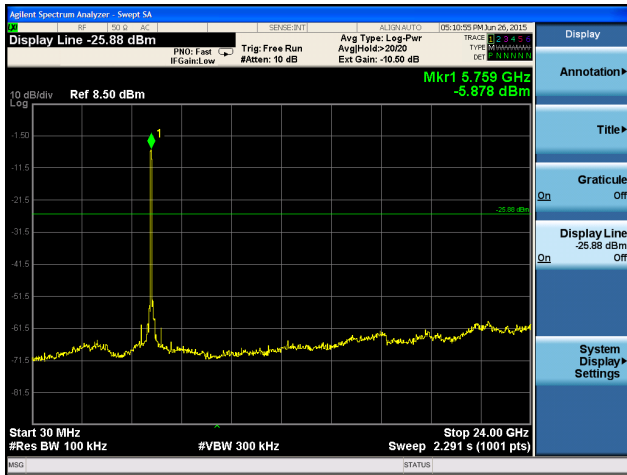
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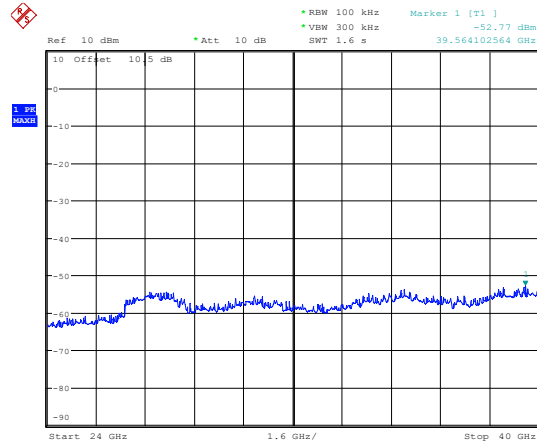
5710MHz 30MHz~24GHz



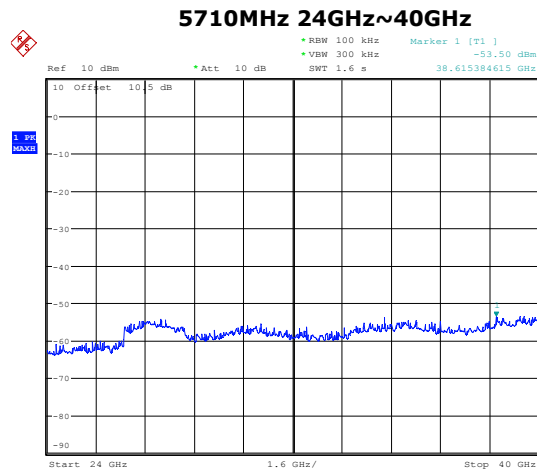
5755MHz 30MHz~24GHz



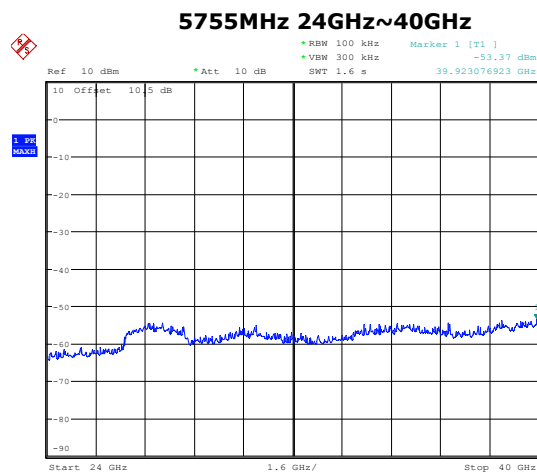
5795MHz 30MHz~24GHz



Date: 4.JUL.2015 09:47:08



Date: 4.JUL.2015 09:47:19



Date: 4.JUL.2015 09:47:35



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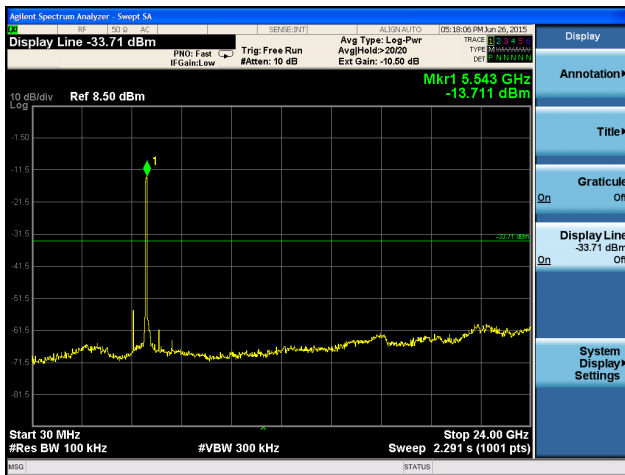
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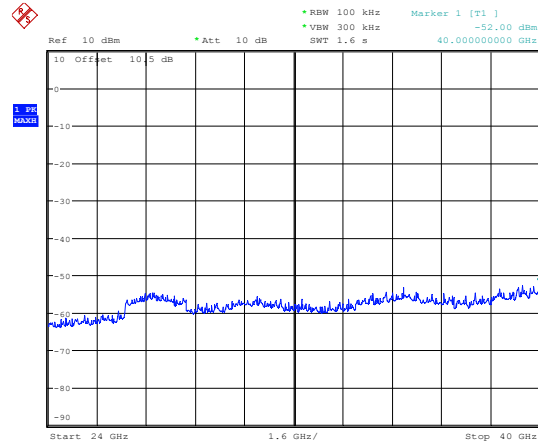
5210MHz 30MHz~24GHz



5290MHz 30MHz~24GHz

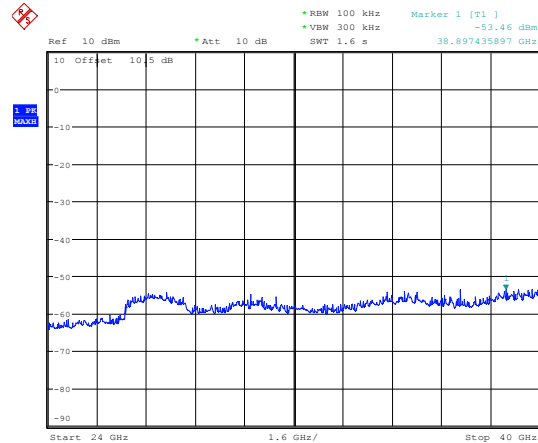


5530MHz 30MHz~24GHz



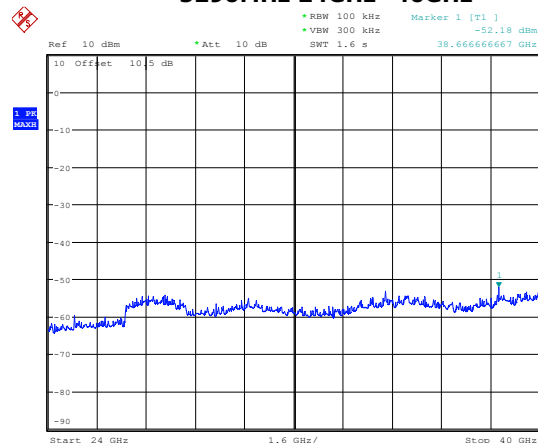
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5210MHz 24GHz~40GHz



Date: 4.JUL.2015 09:47:52

5290MHz 24GHz~40GHz



Date: 4.JUL.2015 09:48:01

5530MHz 24GHz~40GHz



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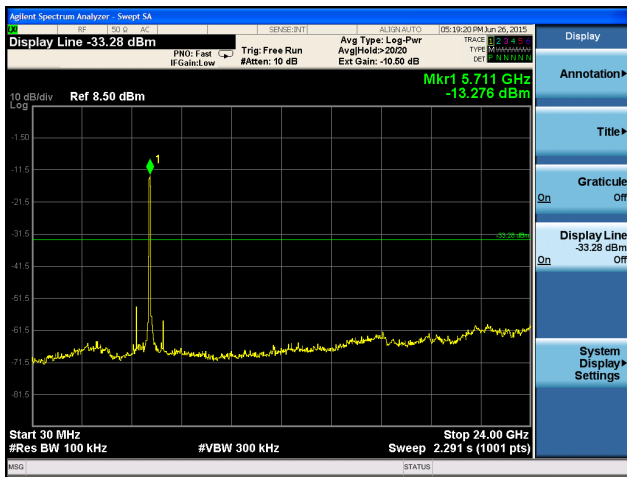
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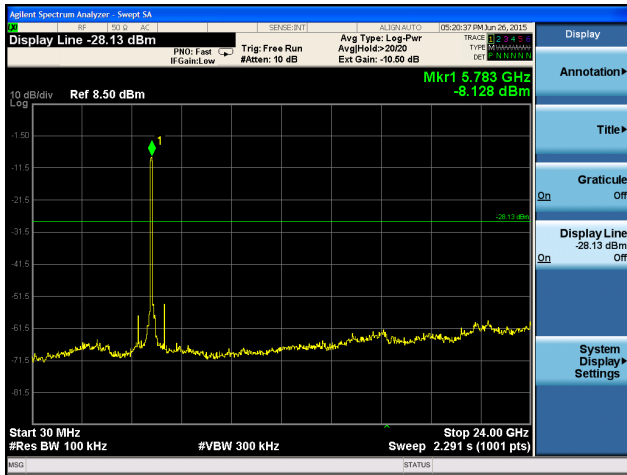
Tel: +82-31-339-9970

Fax: +82-31-624-9501

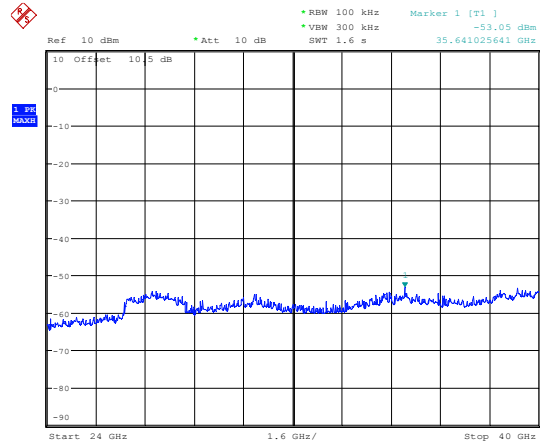
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5690MHz 30MHz~24GHz

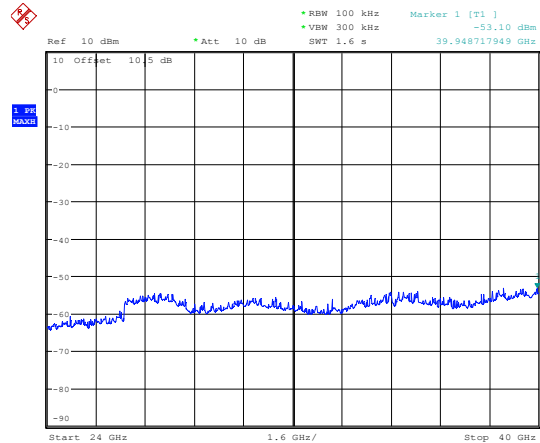


5775MHz 30MHz~24GHz



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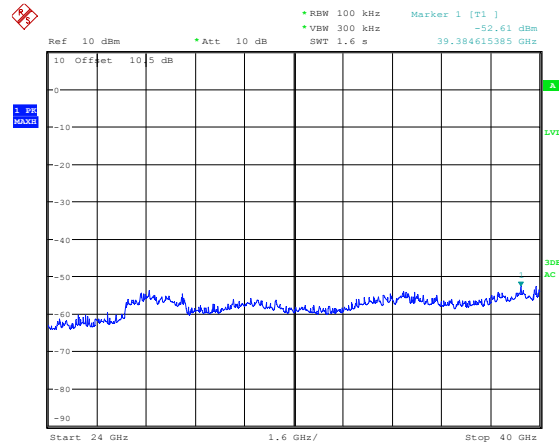
5690MHz 24GHz~40GHz



Date: 4.JUL.2015 09:48:20

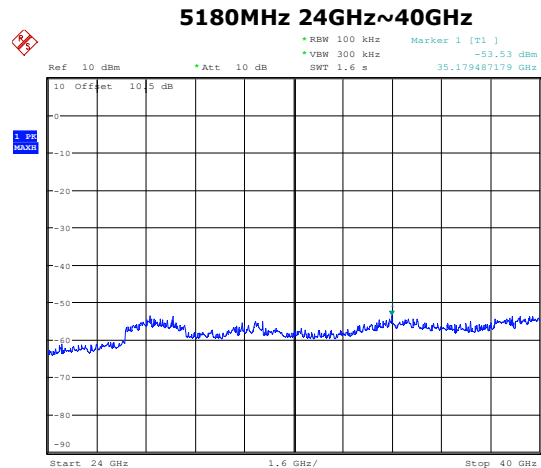
5775MHz 24GHz~40GHz

ANT2_802.11a



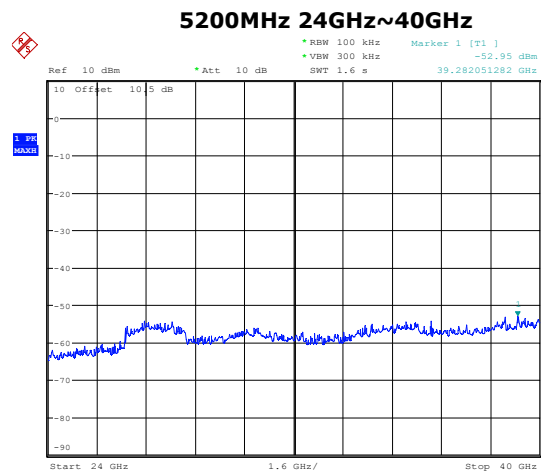
Date: 4.JUL.2015 09:21:39

5180MHz 30MHz~24GHz



Date: 4.JUL.2015 09:21:52

5200MHz 30MHz~24GHz



Date: 4.JUL.2015 09:22:14

5240MHz 30MHz~24GHz

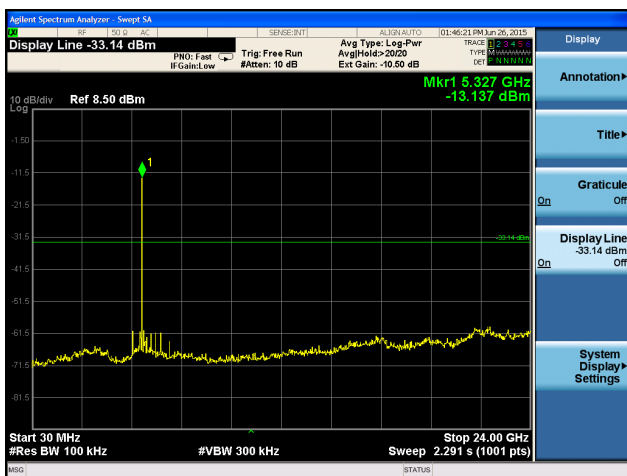
5240MHz 24GHz~40GHz



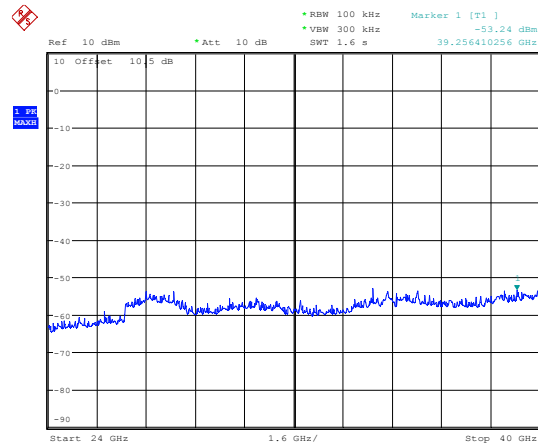
5260MHz 30MHz~24GHz



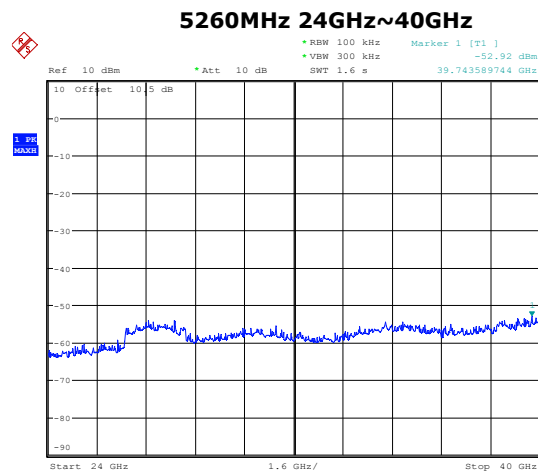
5300MHz 30MHz~24GHz



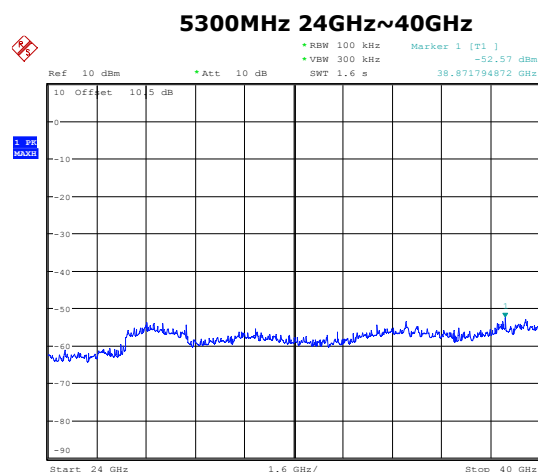
5320MHz 30MHz~24GHz



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Date: 4.JUL.2015 09:22:32



Date: 4.JUL.2015 09:22:55

5320MHz 24GHz~40GHz



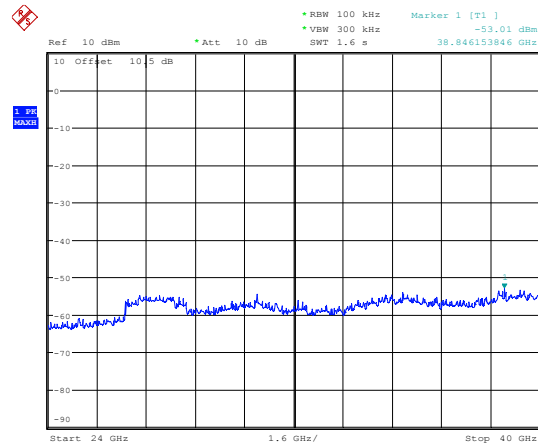
5500MHz 30MHz~24GHz



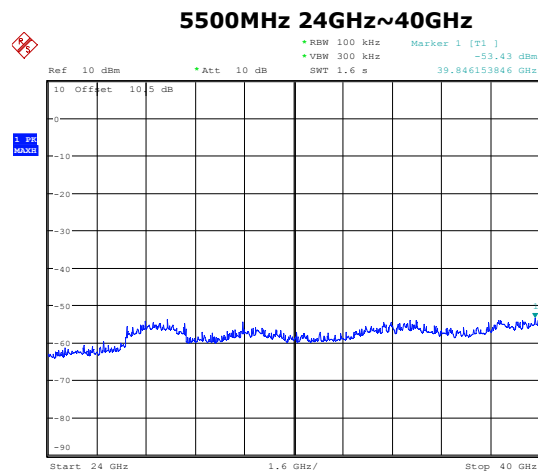
5600MHz 30MHz~24GHz



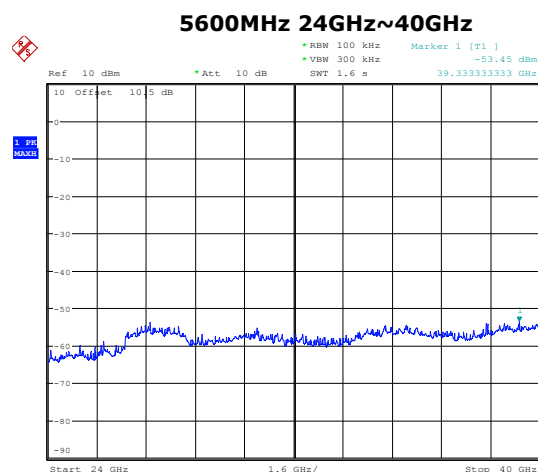
5720MHz 30MHz~24GHz



Date: 4.JUL.2015 09:23:11



Date: 4.JUL.2015 09:23:20



Date: 4.JUL.2015 09:23:29

5720MHz 24GHz~40GHz



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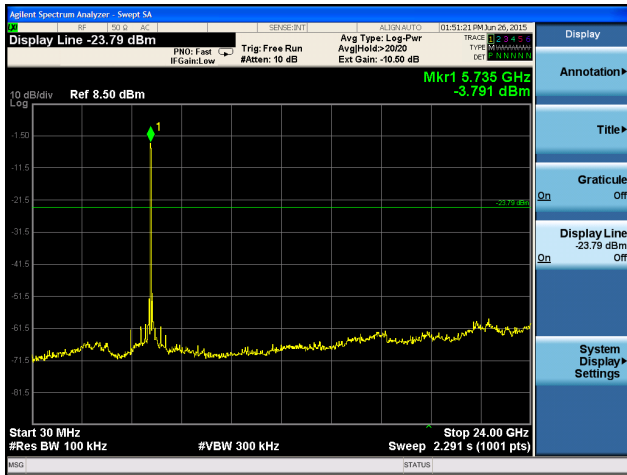
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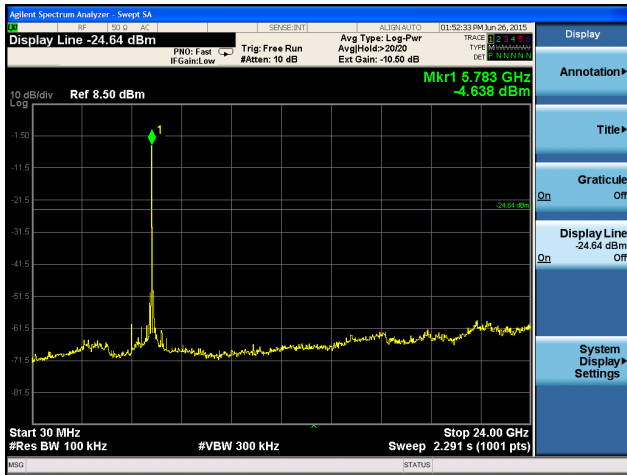
Tel: +82-31-339-9970

Fax: +82-31-624-9501

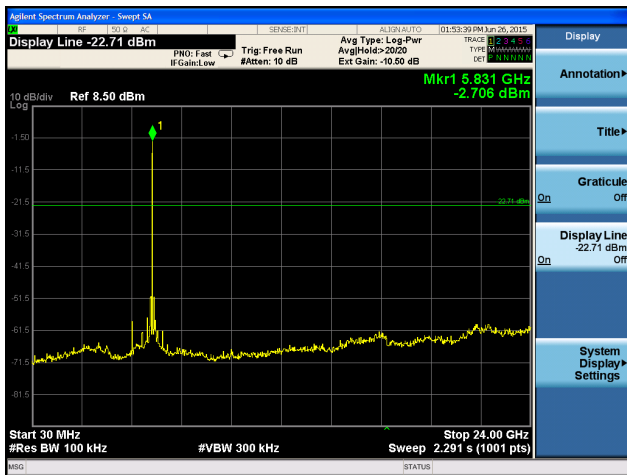
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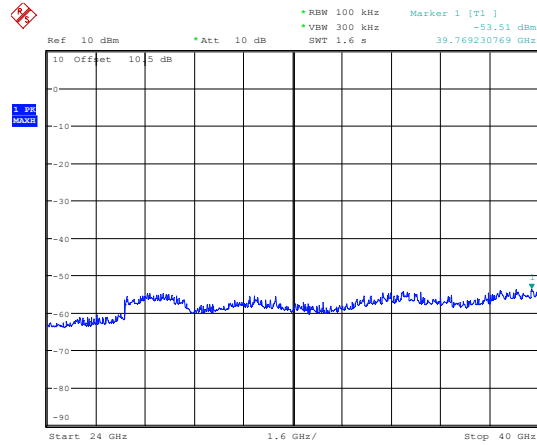
5745MHz 30MHz~24GHz



5785MHz 30MHz~24GHz

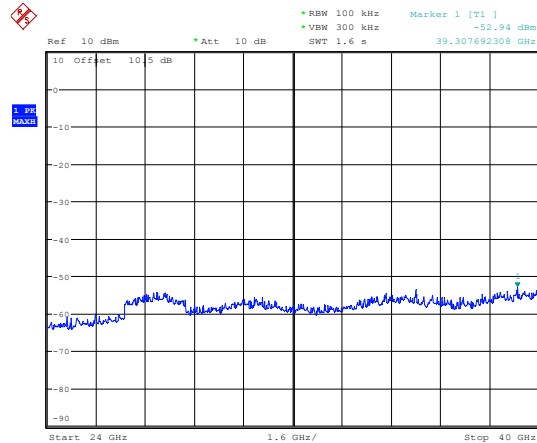


5825MHz 30MHz~24GHz



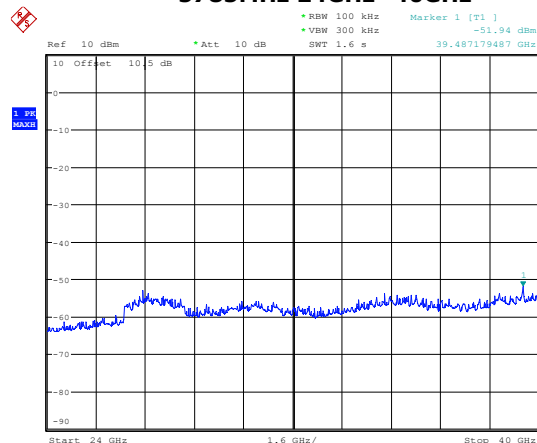
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5745MHz 24GHz~40GHz



Date: 4.JUL.2015 09:23:46

5785MHz 24GHz~40GHz



Date: 4.JUL.2015 09:23:54

5825MHz 24GHz~40GHz