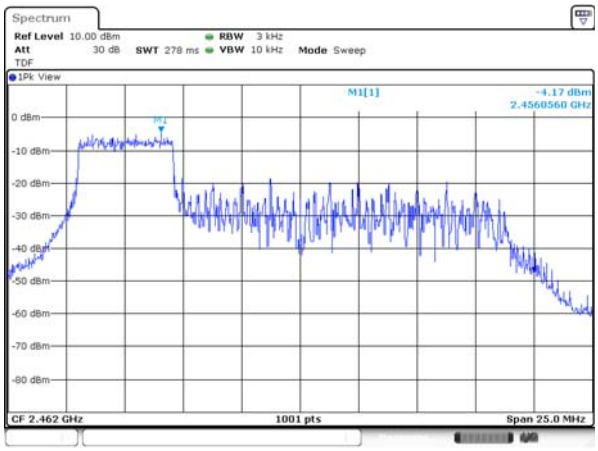
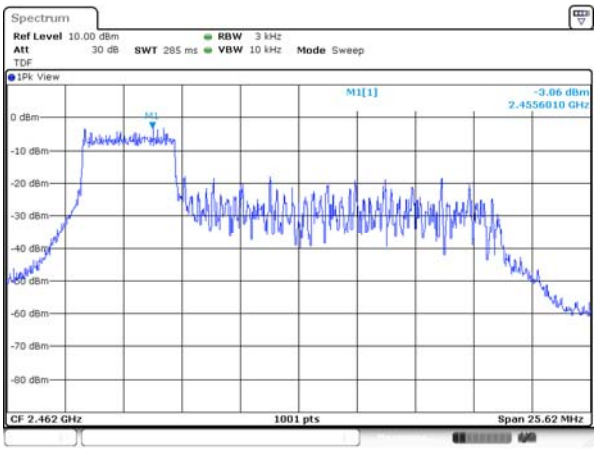
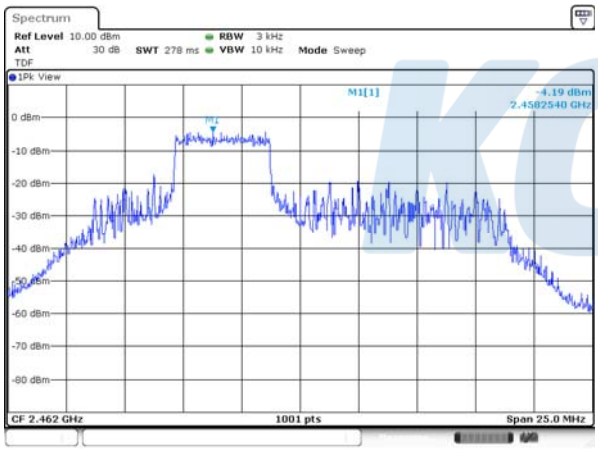
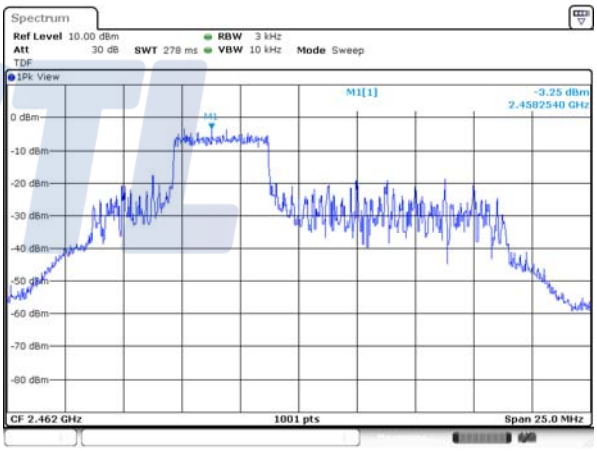
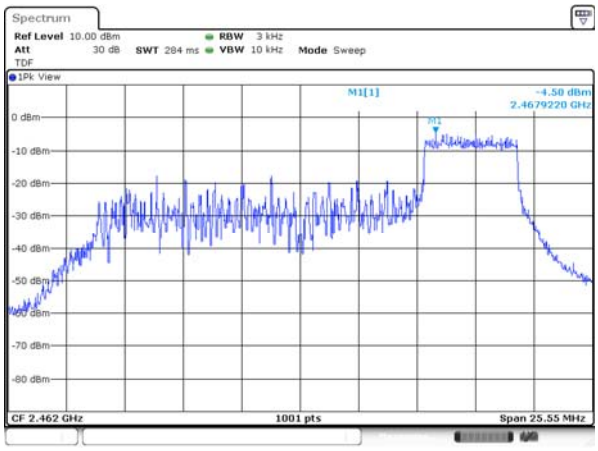
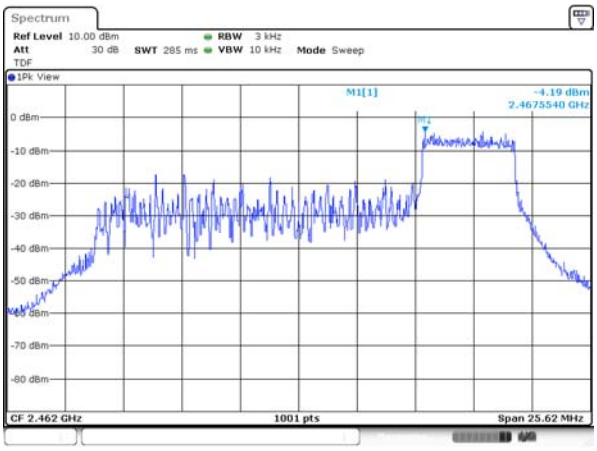
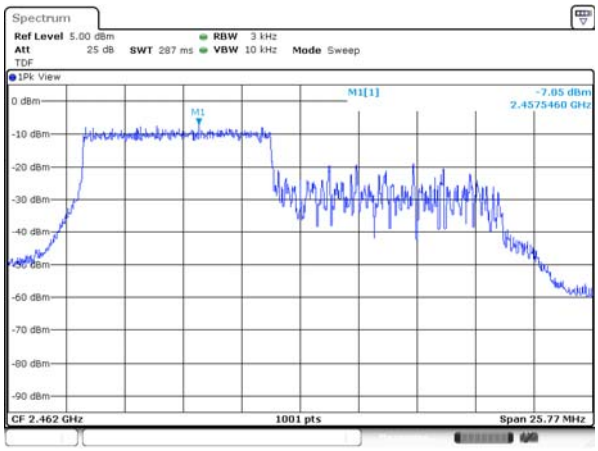
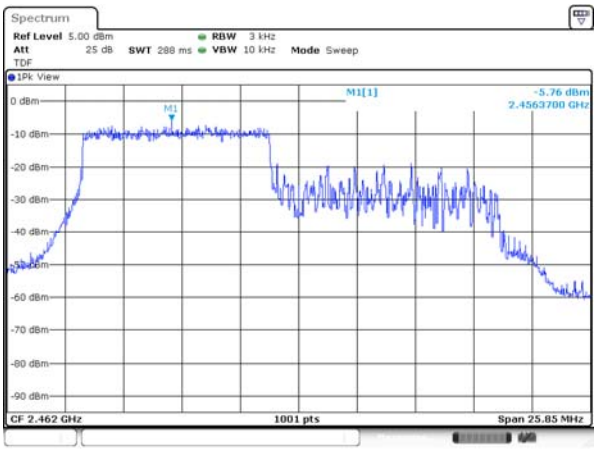
52T / 2 462 ㎒	
ANT 1	**ANT 2**
RU offset 37	**RU offset 37**
	
RU offset 38	**RU offset 38**
	
RU offset 40	**RU offset 40**
	

106T / 2 462 ㎒	
ANT 1	**ANT 2**
RU offset 53	**RU offset 53**
	
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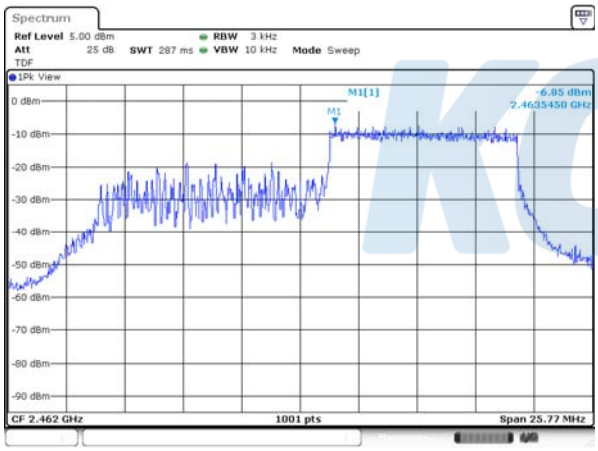
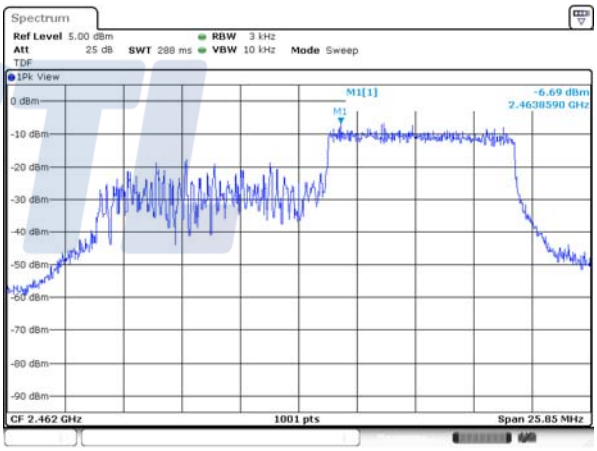
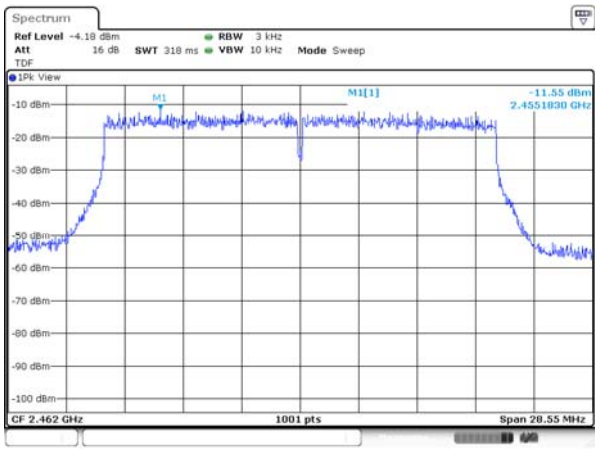
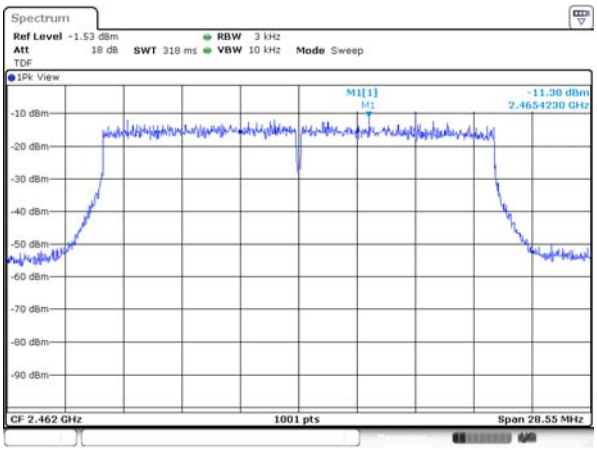
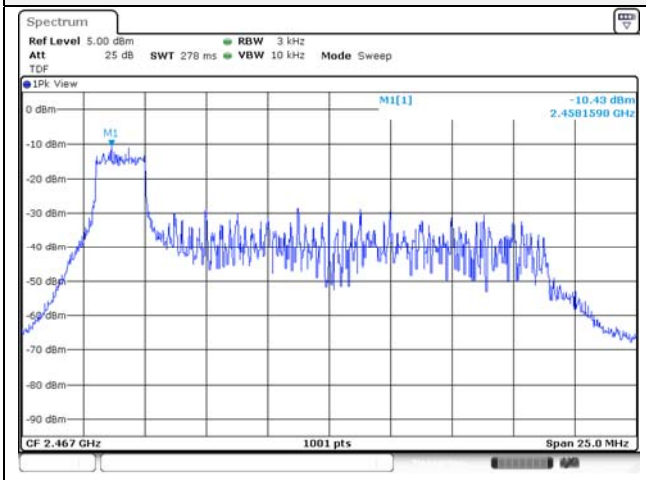
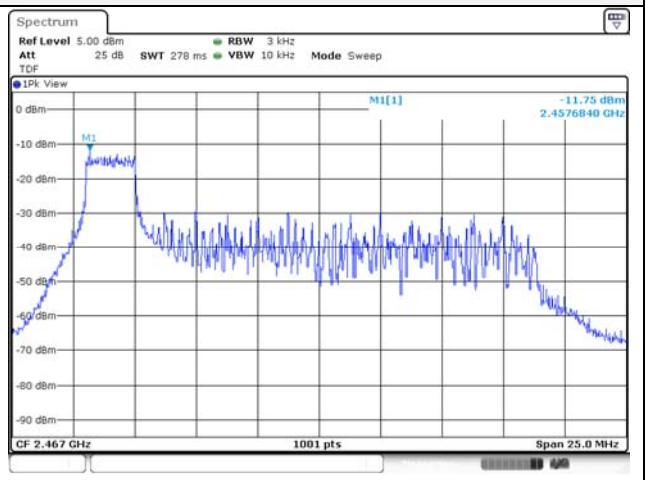
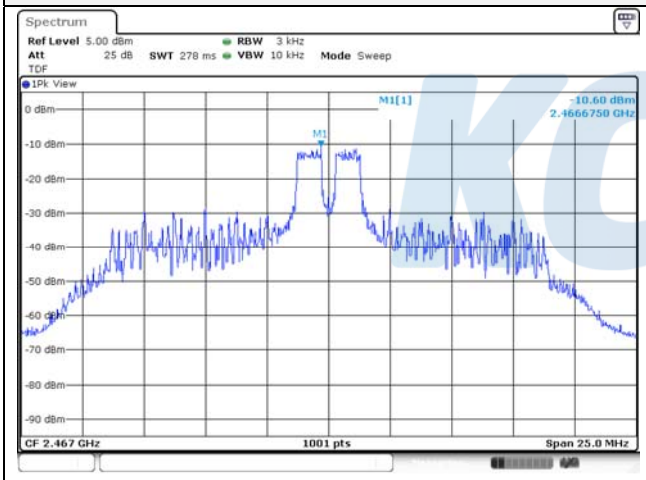
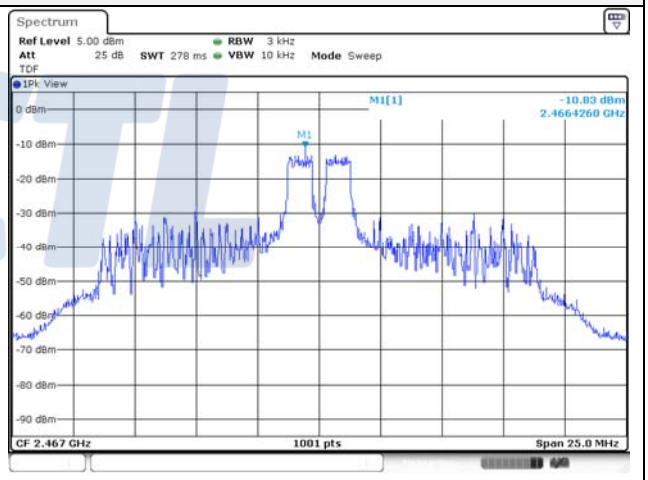
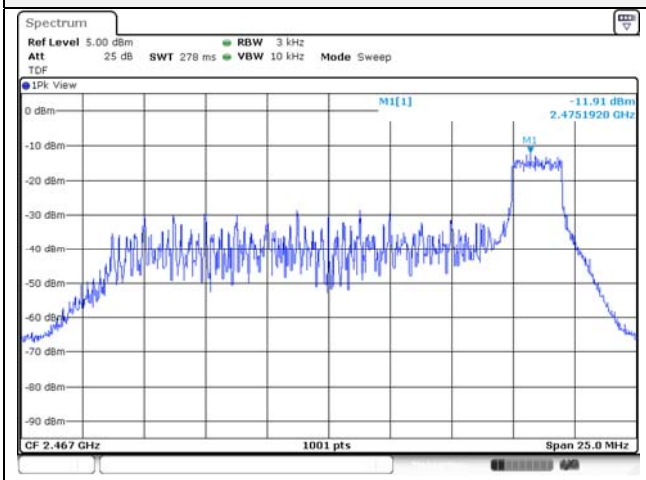
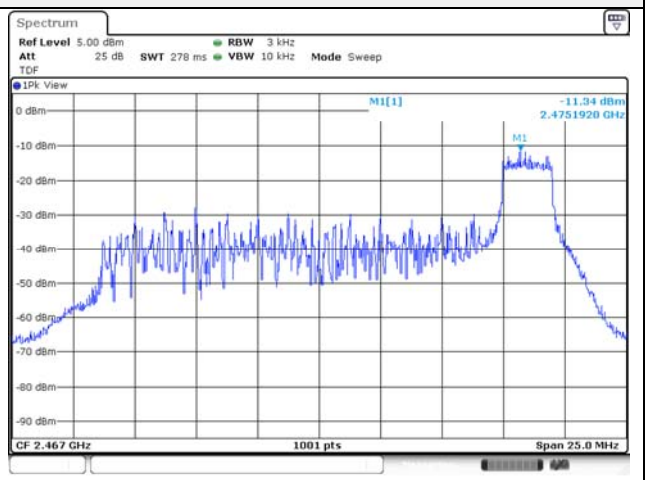
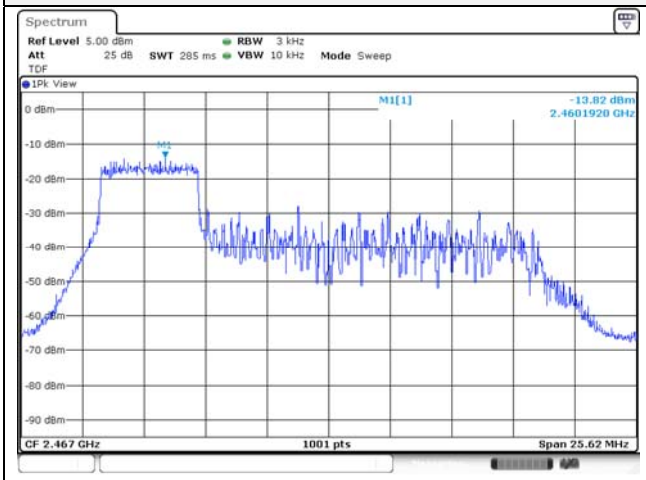
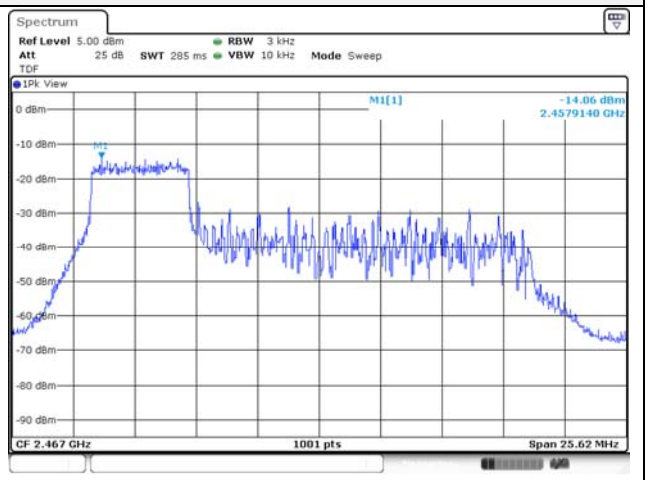
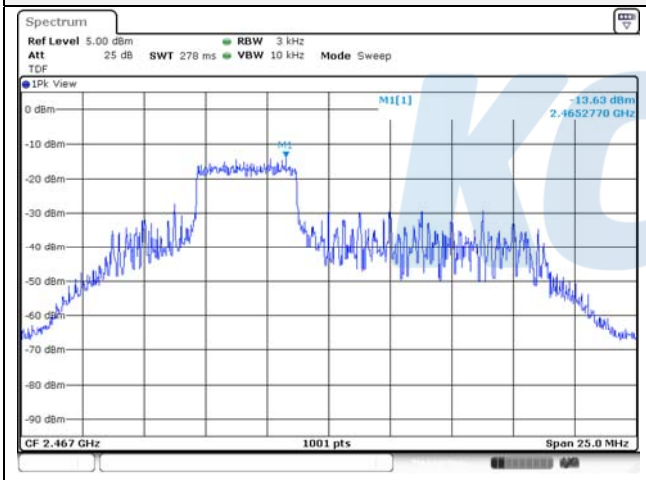
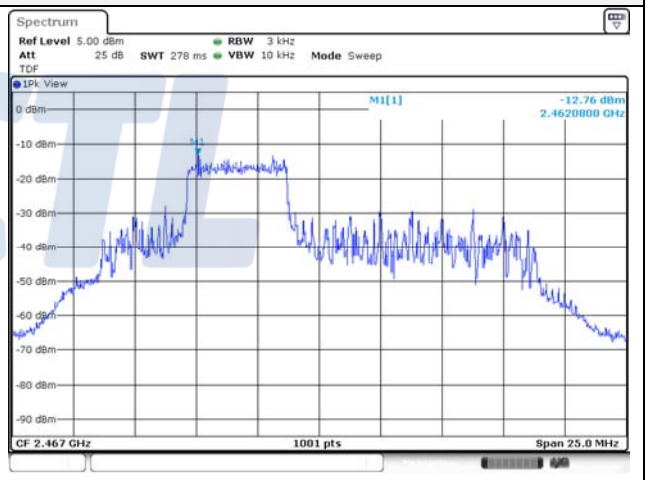
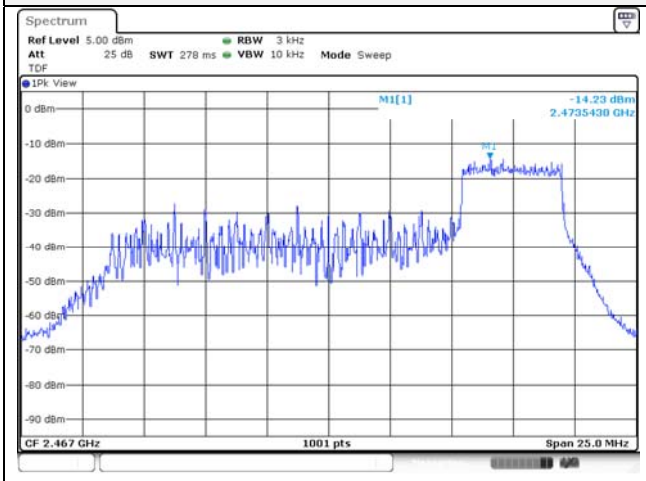
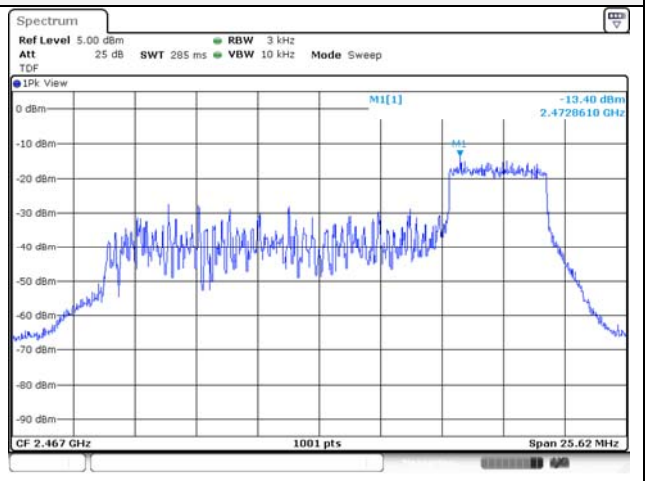
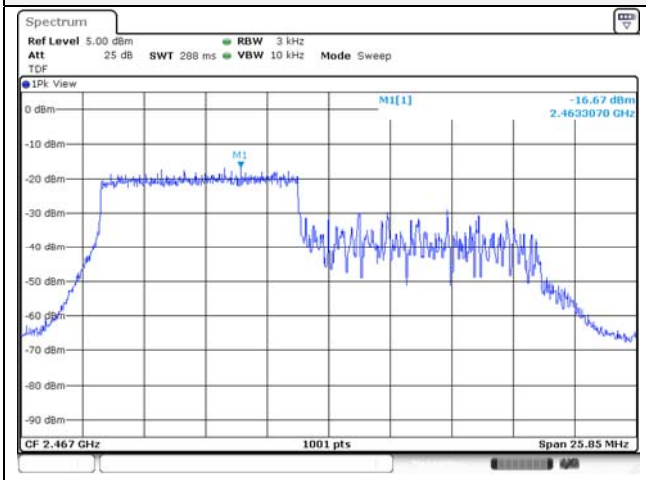
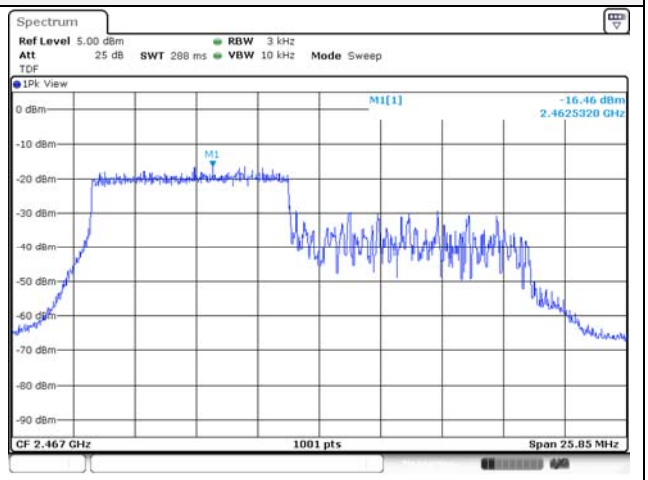
	
SU / 2 462 ㎒	
ANT 1	**ANT 2**
	

26T / 2 467 ㎒	
ANT 1	**ANT 2**
RU offset 0	**RU offset 0**
	
RU offset 4	**RU offset 4**
	
RU offset 8	**RU offset 8**
	

52T / 2 467 ㎒	
ANT 1	**ANT 2**
RU offset 37	**RU offset 37**
	
RU offset 38	**RU offset 38**
	
RU offset 40	**RU offset 40**
	

106T / 2 467 ㎒	
ANT 1	**ANT 2**
RU offset 53	**RU offset 53**
	
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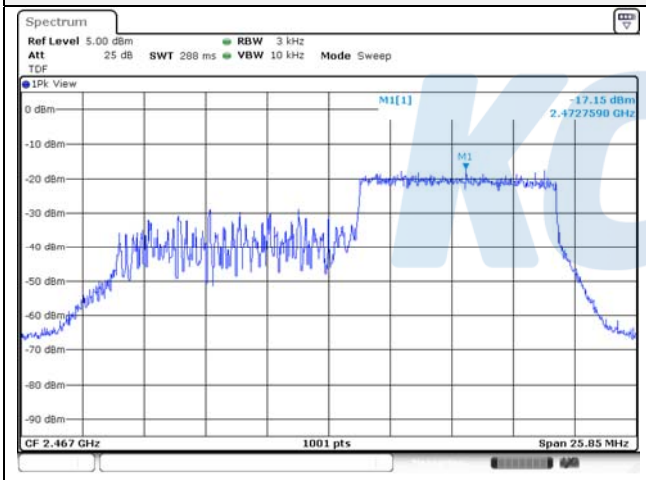
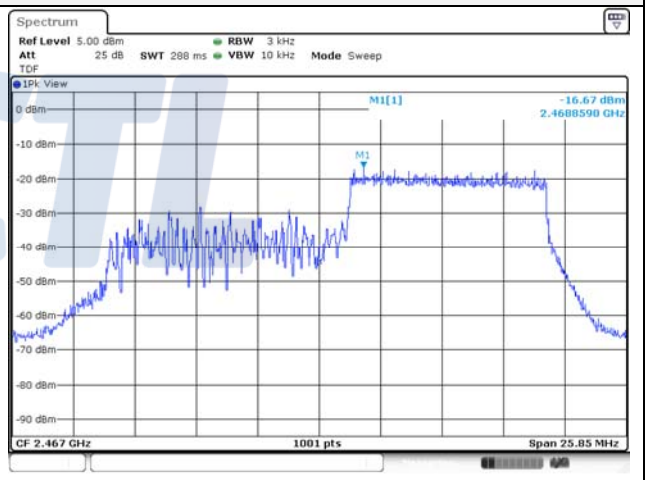
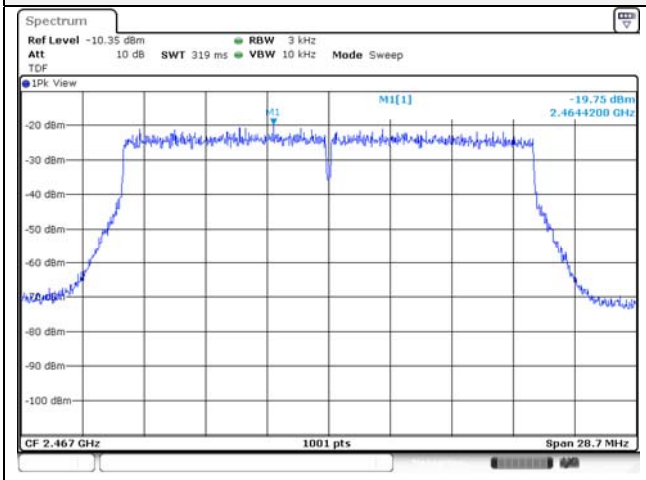
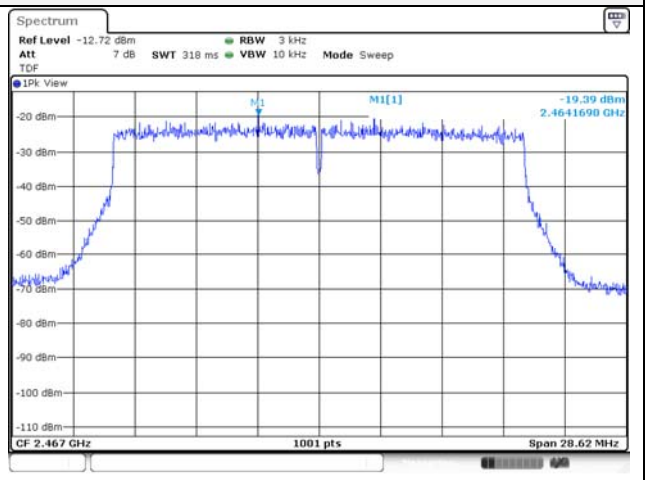
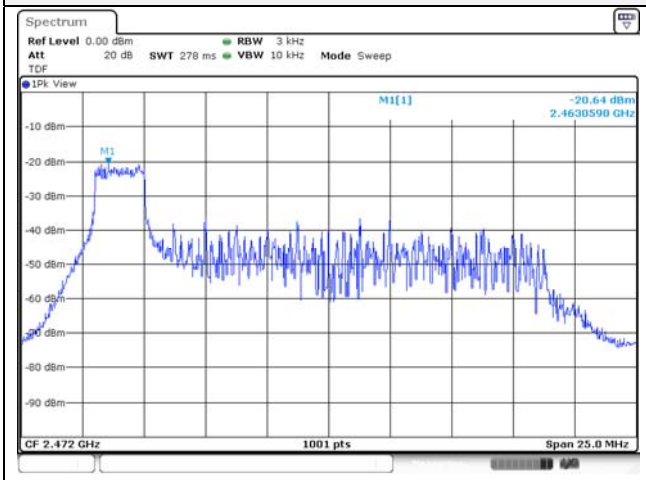
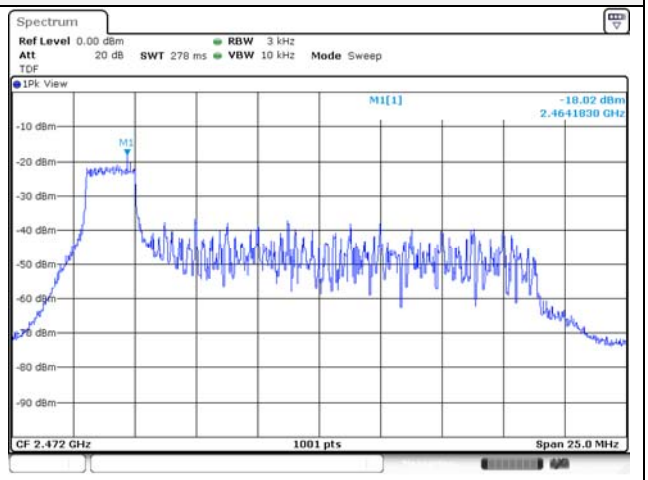
	
SU / 2 467 ㎒	
ANT 1	**ANT 2**
	

26T / 2 472 ㎒	
ANT 1	**ANT 2**
RU offset 0	**RU offset 0**
	
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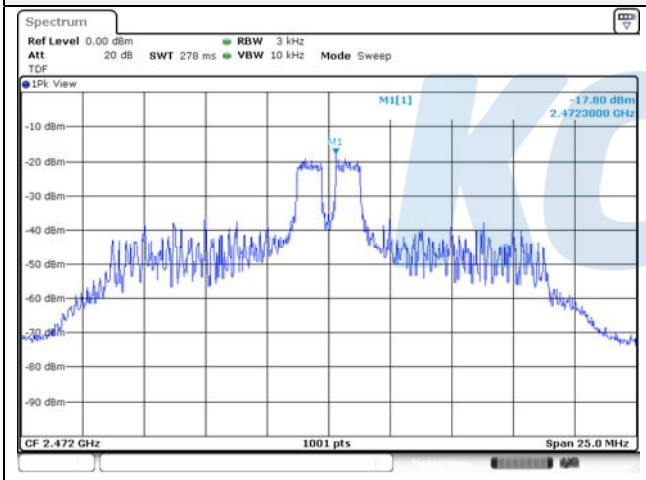	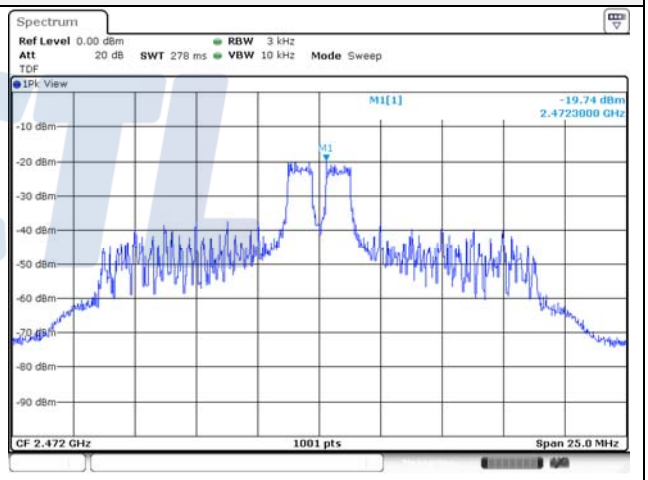
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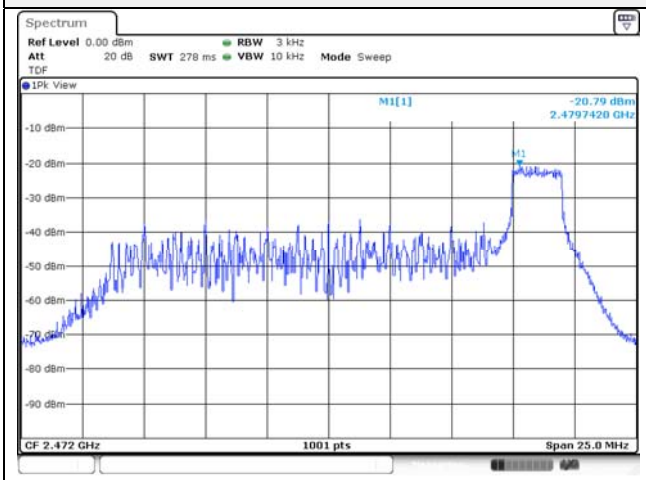
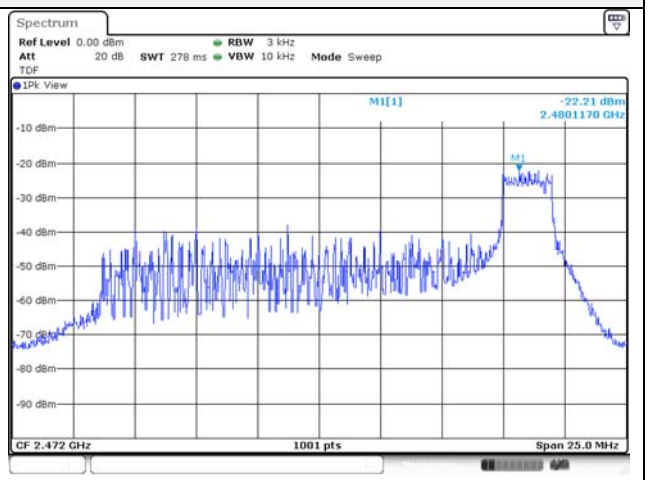
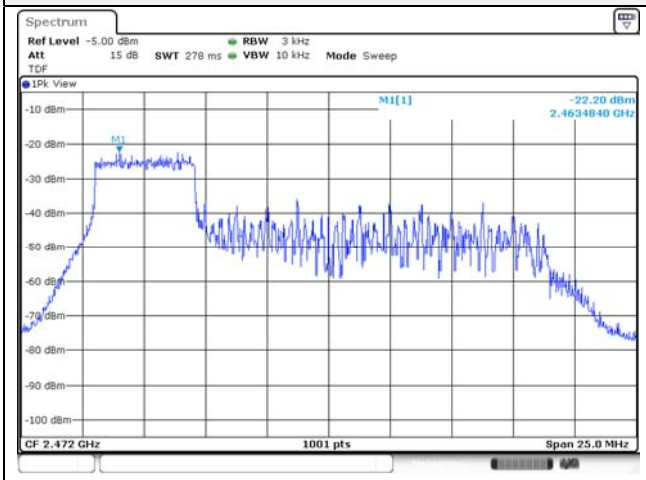
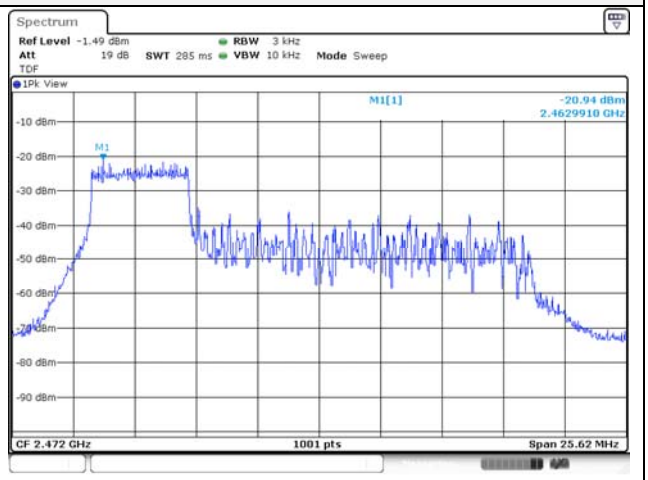
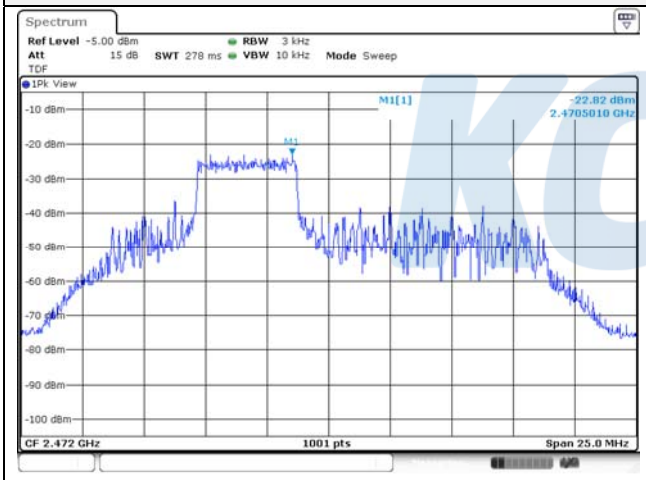
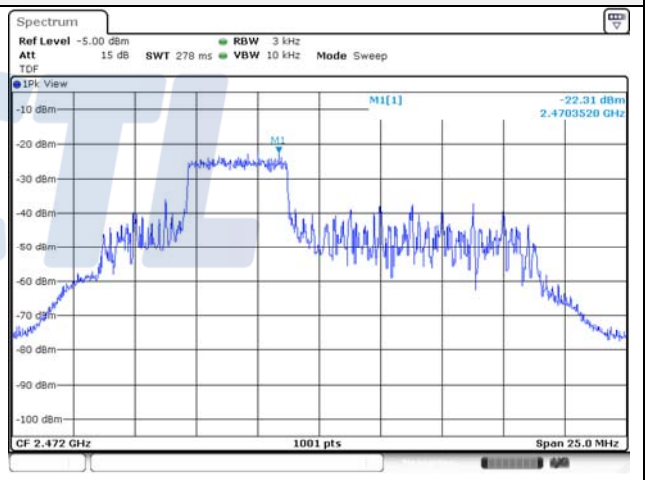
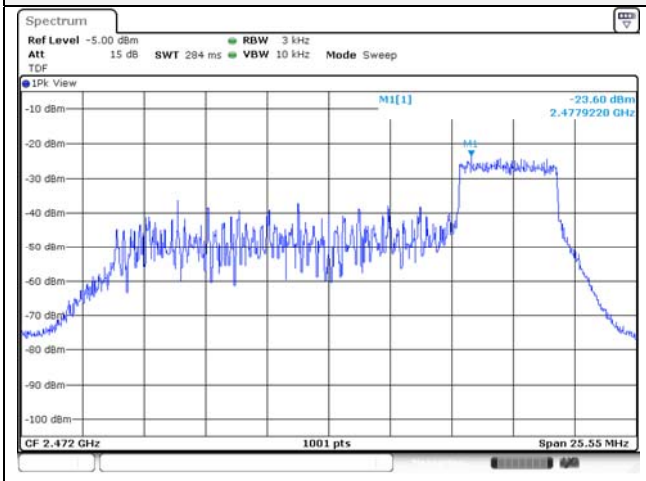
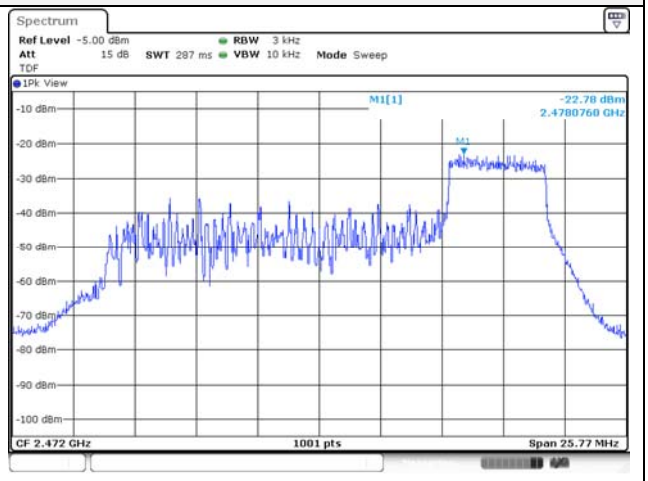
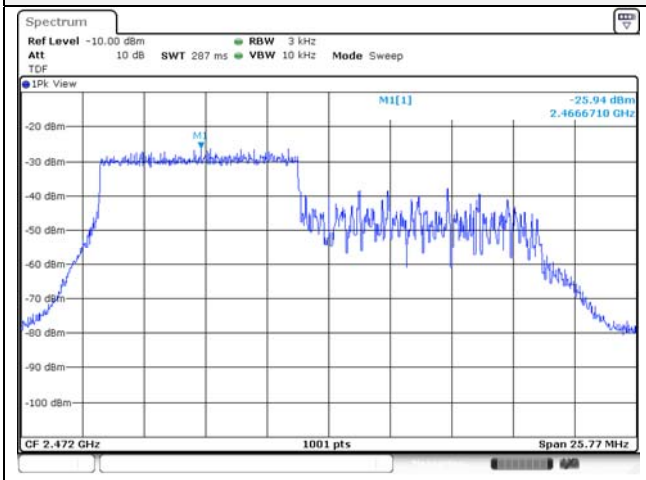
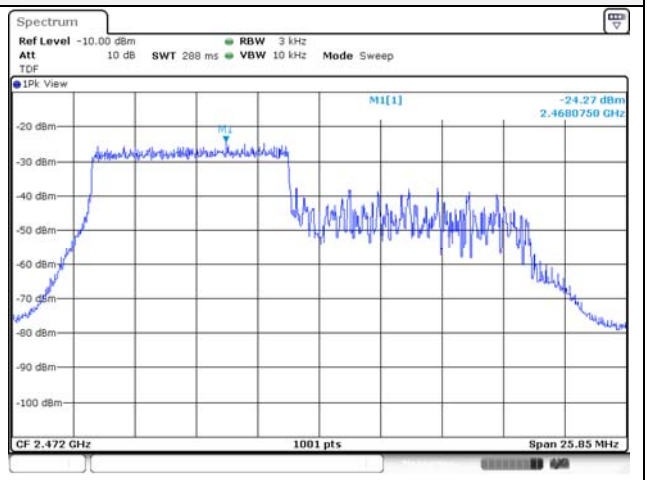
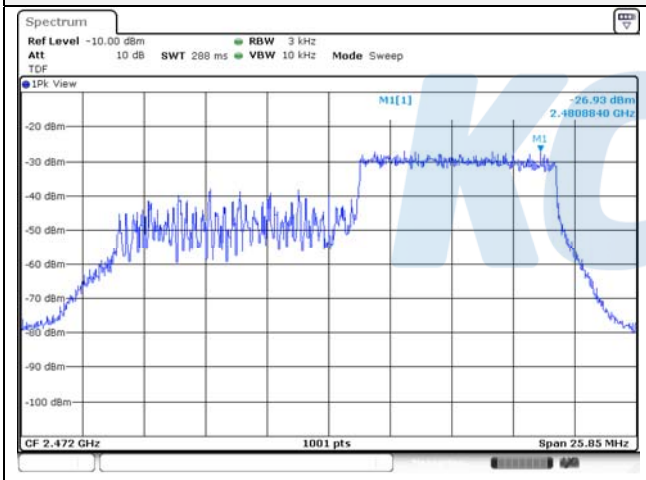
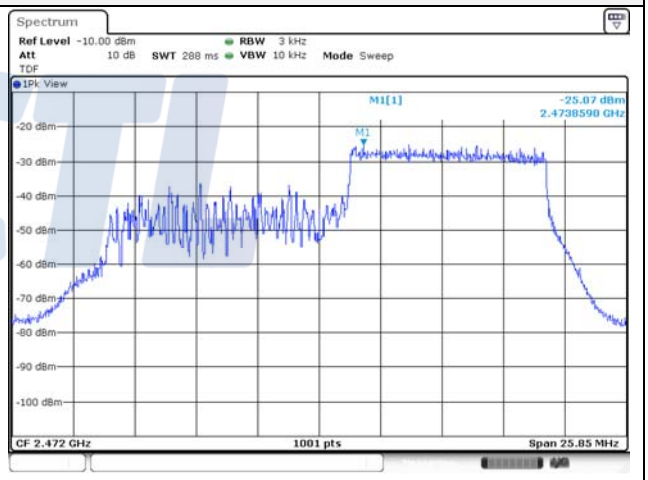
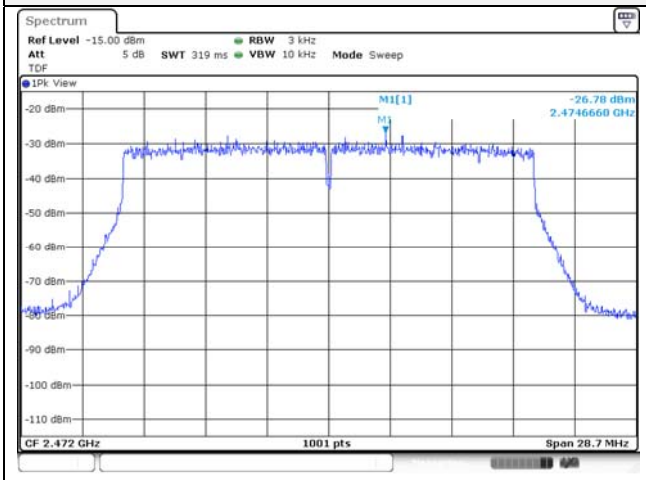
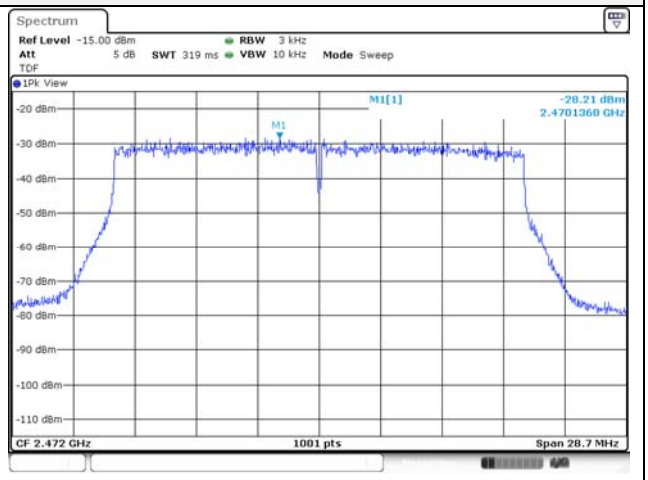
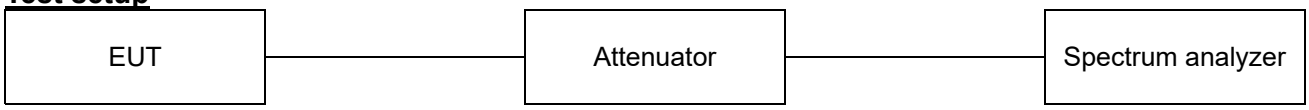
	

52T / 2 472 ㎒	
ANT 1	**ANT 2**
RU offset 37	**RU offset 37**
	
RU offset 38	**RU offset 38**
	
RU offset 40	**RU offset 40**
	

106T / 2 472 ㎒	
ANT 1	**ANT 2**
RU offset 53	**RU offset 53**
	
RU offset 54	**RU offset 54**
	
SU / 2 472 ㎒	
ANT 1	**ANT 2**
	

7.3. 6 dB Bandwidth(DTS Channel Bandwidth)

Test setup



Limit

According to §15.247(a)(2) Systems using digital modulation techniques may operate in the 902–928 ㎒, 2 400–2 483.5 ㎒, and 5 725–5 850 ㎒ bands. The minimum 6 ㏈ bandwidth shall be at least 500 ㎑.

Test procedure

ANSI C63.10 - Section 11.8.2

Test settings

DTS bandwidth

One of the following procedures may be used to determine the modulated DTS bandwidth.

Option 1

1) Set RBW = 100 ㎑.
2) Set the video bandwidth (VBW) ≥ 3 x RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Sweep = auto couple.
6) Allow the trace to stabilize.
7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 ㏈ relative to the maximum level measured in the fundamental emission.

Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X ㏈ bandwidth mode with X set to 6 ㏈, if the functionality described in 11.8.1 (i.e., RBW = 100 ㎑, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥6 ㏈.

Test results

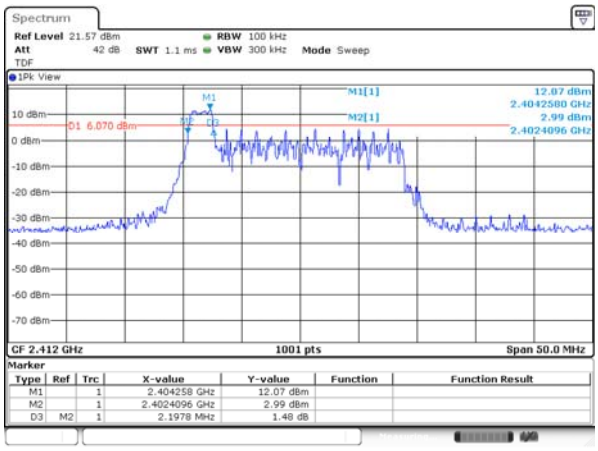
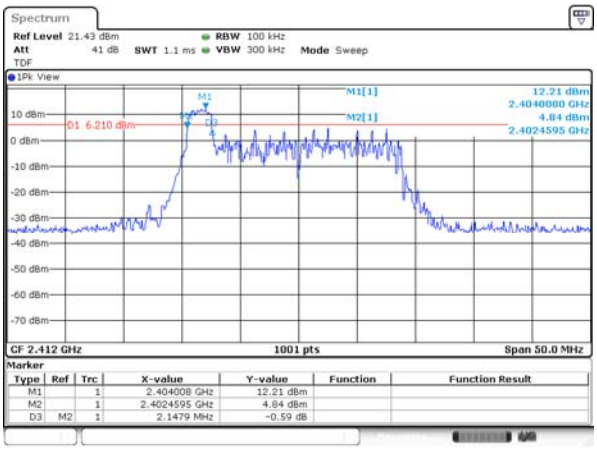
SISO

Frequency(㎒)	Tone	RU Offset	6 dB bandwidth(㎒)	
			ANT 1	ANT 2
2 412	26T	0	2.20	2.15
		4	2.70	2.75
		8	2.15	2.15
	52T	37	17.13	17.13
		38	13.89	4.10
		40	14.64	15.88
	106T	53	17.18	17.23
		54	17.18	17.23
	SU	-	19.08	19.08
2 437	26T	0	2.15	2.15
		4	2.70	2.75
		8	2.05	2.15
	52T	37	17.08	17.08
		38	11.39	12.94
		40	10.84	15.83
	106T	53	17.18	17.18
		54	17.18	17.18
	SU	-	19.03	18.98
2 462	26T	0	2.15	2.15
		4	2.70	2.75
		8	2.15	2.15
	52T	37	14.59	14.59
		38	10.44	8.84
		40	15.88	15.83
	106T	53	17.18	17.18
		54	17.23	17.18
	SU	-	19.08	19.03
2 467	26T	0	2.15	2.10
		4	2.70	2.75
		8	2.15	2.15
	52T	37	12.09	4.10
		38	8.89	7.64
		40	15.93	15.88
	106T	53	17.18	17.18
		54	17.28	17.23
	SU	-	19.13	19.18
2 472	26T	0	2.20	2.10
		4	2.70	2.70
		8	2.15	2.15
	52T	37	14.64	14.59
		38	8.89	8.89
		40	14.64	17.13
	106T	53	17.13	17.23
		54	17.18	17.18
	SU	-	19.03	19.03

MIMO

Frequency(㎒)	Tone	RU Offset	6 dB bandwidth(㎒)	
			ANT 1	ANT 2
2 412	26T	0	2.15	2.20
		4	2.70	2.70
		8	2.15	2.20
	52T	37	17.08	17.08
		38	7.94	12.94
		40	15.88	17.08
	106T	53	17.23	17.23
		54	17.18	17.23
	SU	-	19.13	18.98
2 437	26T	0	2.20	2.15
		4	2.70	2.70
		8	2.10	2.15
	52T	37	14.54	17.13
		38	13.84	12.94
		40	15.83	13.34
	106T	53	17.18	17.18
		54	17.18	17.18
	SU	-	19.03	18.93
2 462	26T	0	2.15	2.20
		4	2.70	2.70
		8	2.05	2.20
	52T	37	14.59	17.08
		38	8.84	11.34
		40	17.03	17.08
	106T	53	17.18	17.23
		54	17.18	17.23
	SU	-	19.03	19.03
2 467	26T	0	2.10	2.10
		4	2.75	2.65
		8	2.20	2.10
	52T	37	17.08	17.08
		38	8.89	13.89
		40	15.83	17.08
	106T	53	17.23	17.23
		54	17.23	17.23
	SU	-	19.13	19.08
2 472	26T	0	2.20	2.20
		4	2.70	2.70
		8	2.15	2.15
	52T	37	12.09	17.08
		38	13.89	10.44
		40	17.03	17.18
	106T	53	17.18	17.23
		54	17.23	17.23
	SU	-	19.13	19.13

SISO

26T / 2 412 ㎒	
ANT 1	**ANT 2**
RU offset 0	**RU offset 0**
	
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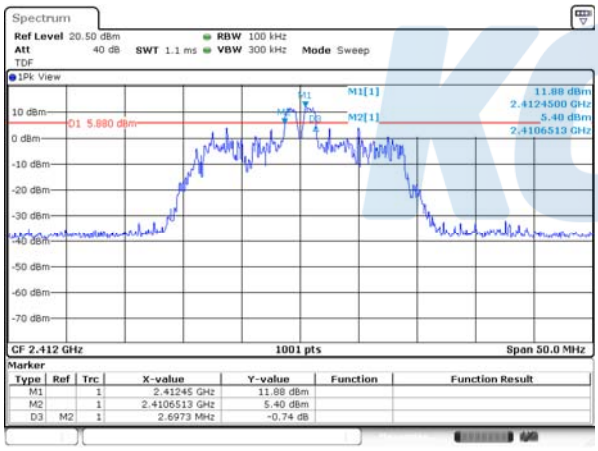	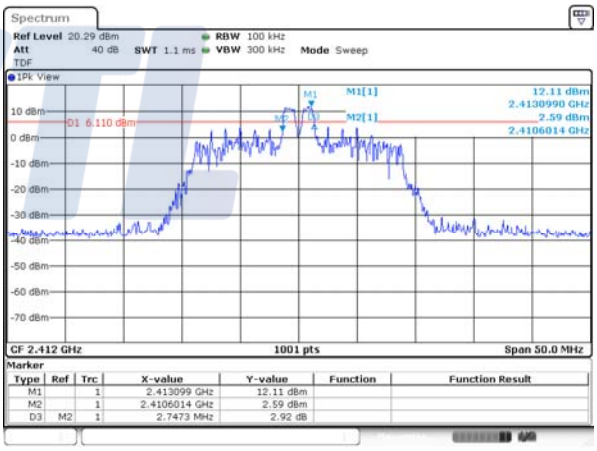
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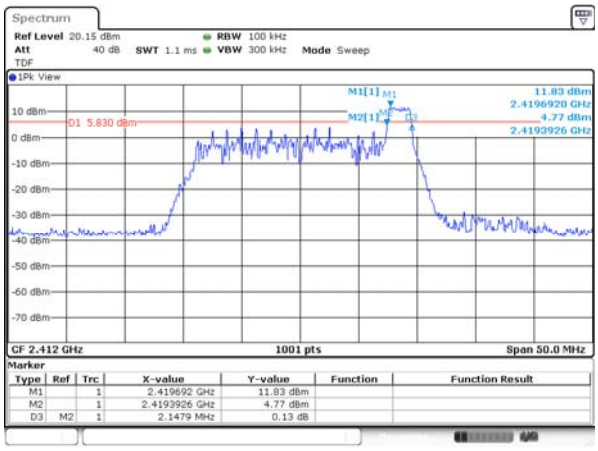	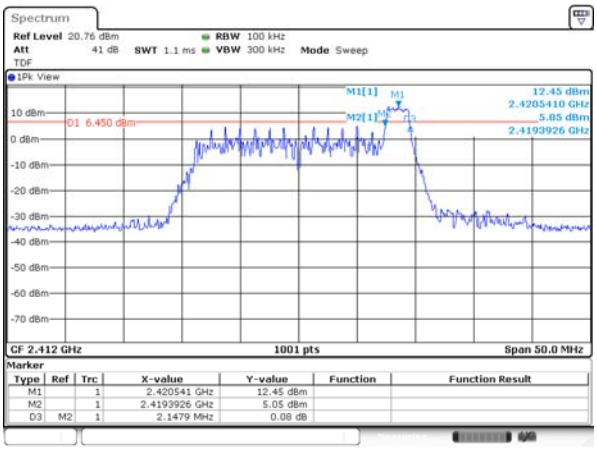

52T / 2 412 ㎒	
ANT 1	**ANT 2**
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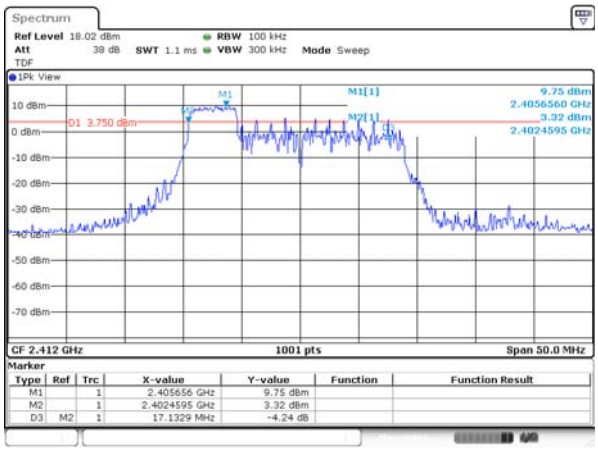	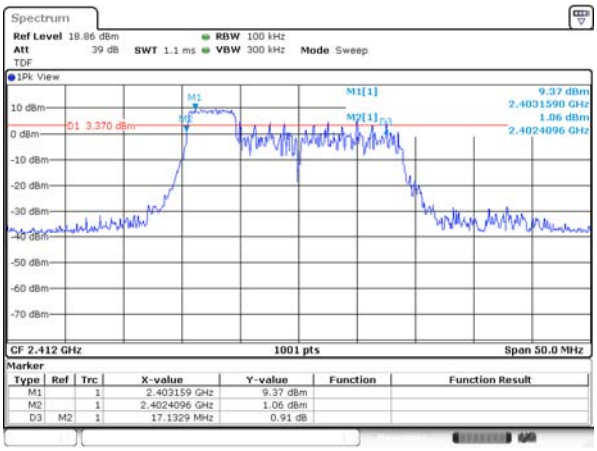
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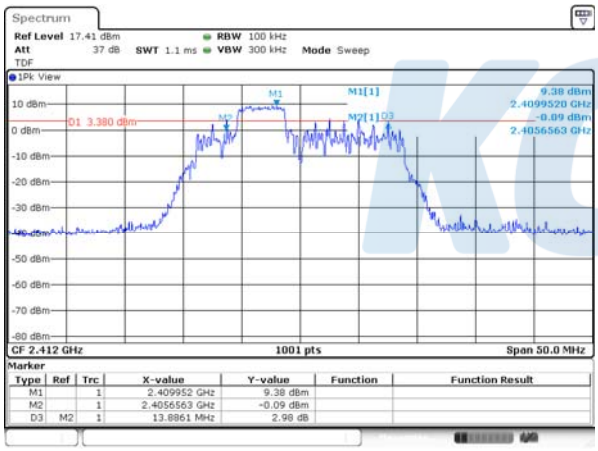	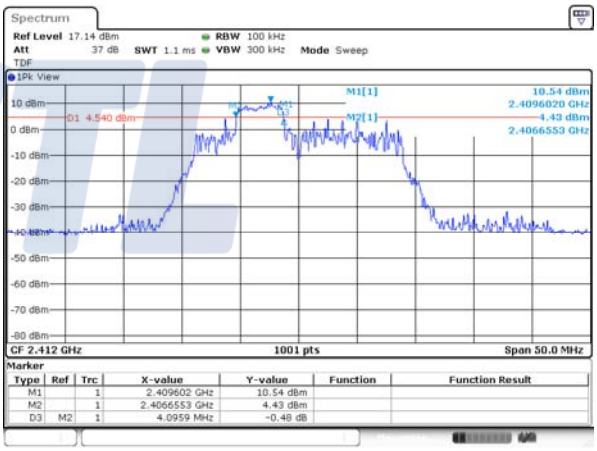
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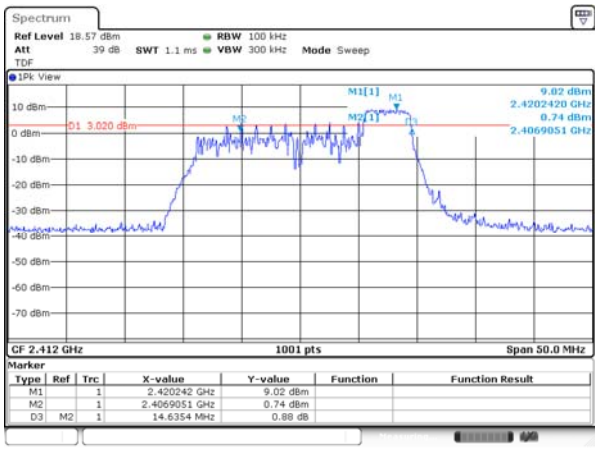	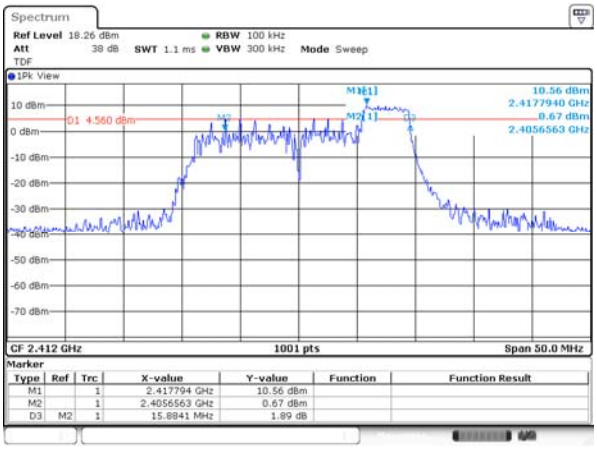

106T / 2 412 ㎒	
ANT 1	**ANT 2**
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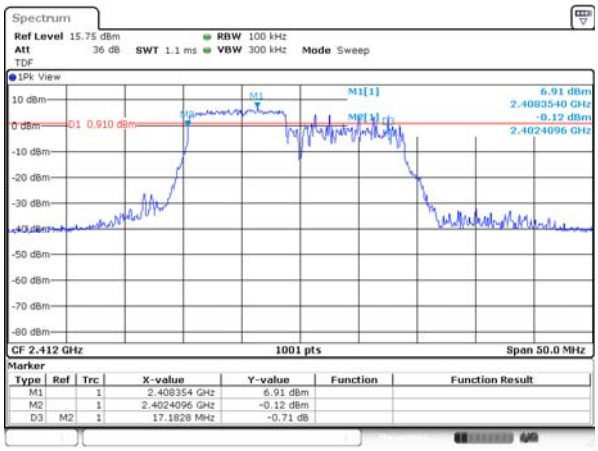	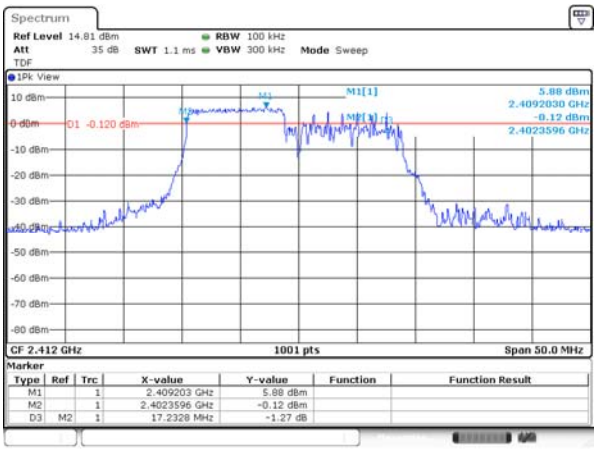
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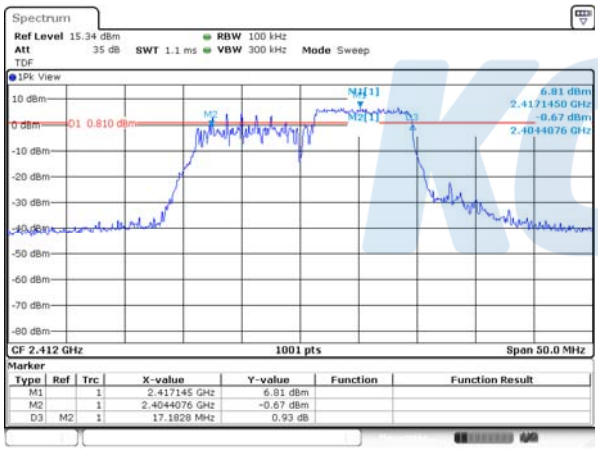
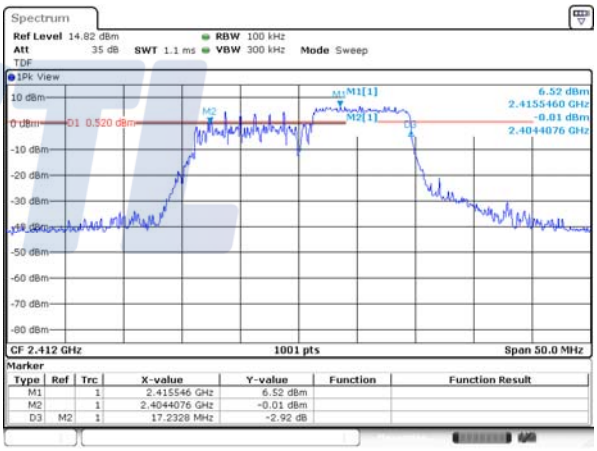
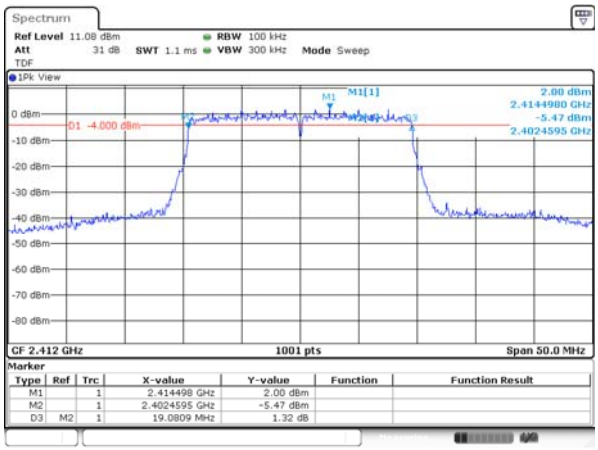
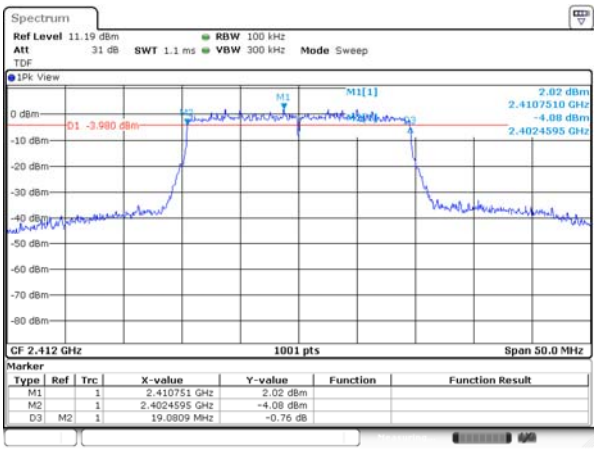
	
SU / 2 412 ㎒	
ANT 1	**ANT 2**
	

26T / 2 437 ㎒	
ANT 1	**ANT 2**
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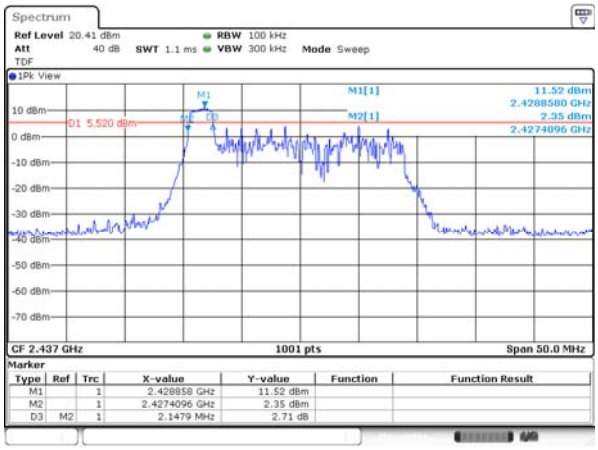	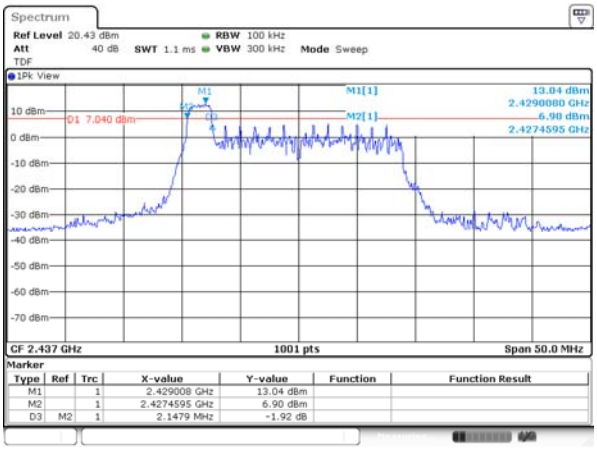
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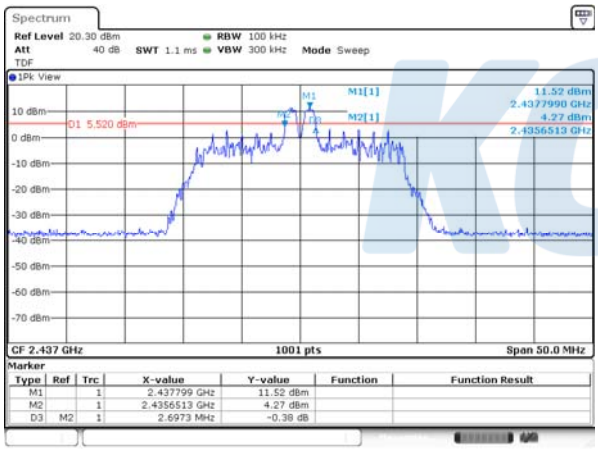	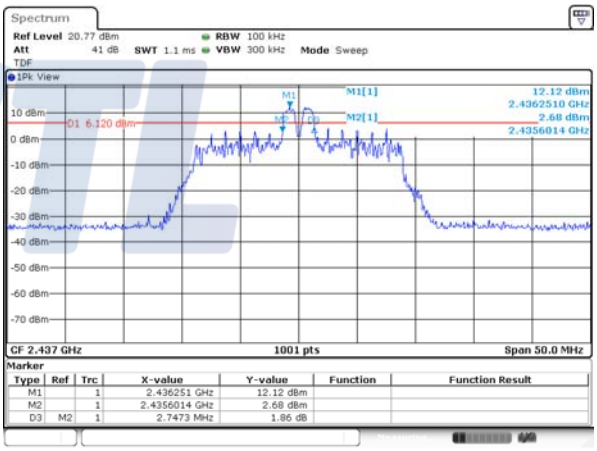
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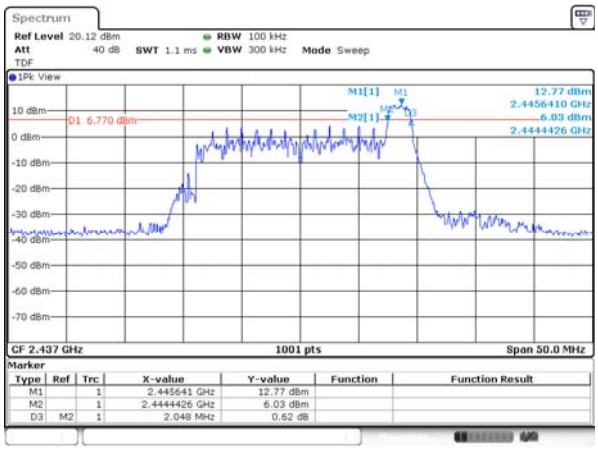	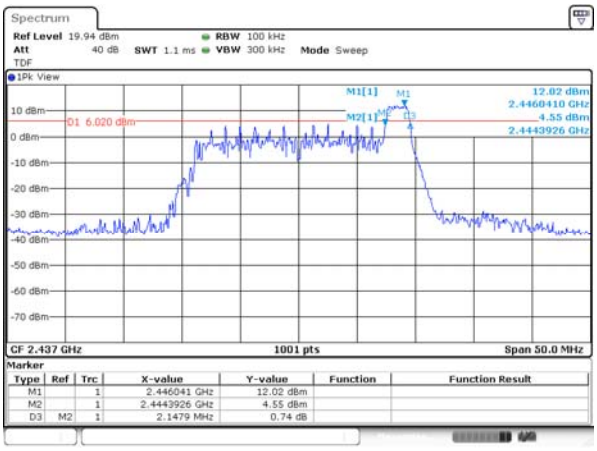

52T / 2 437 ㎒	
ANT 1	**ANT 2**
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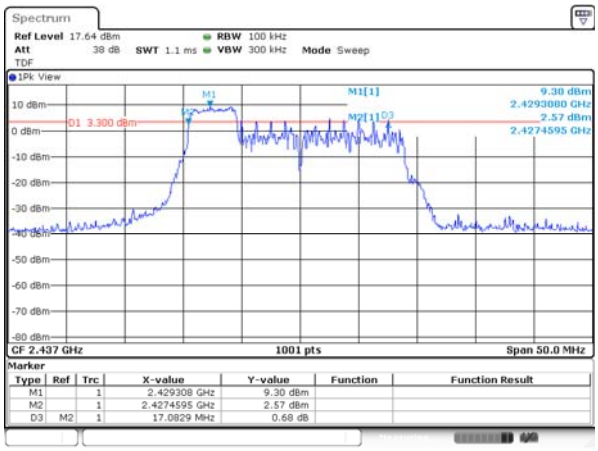	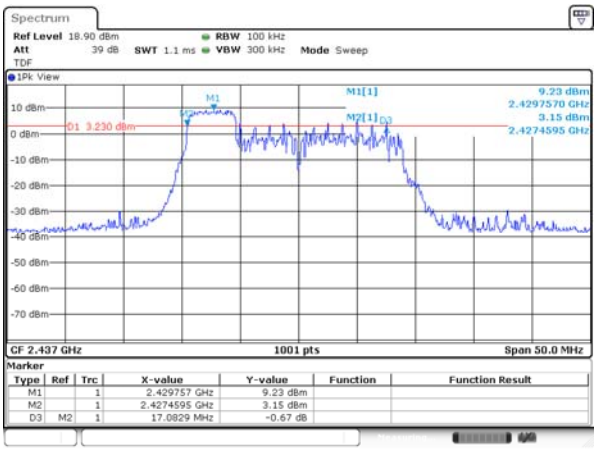
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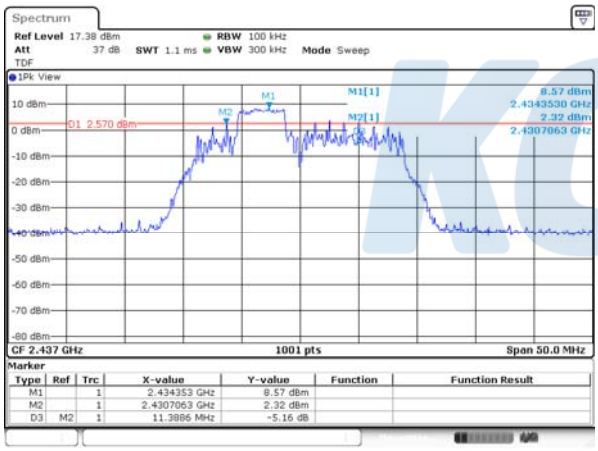	
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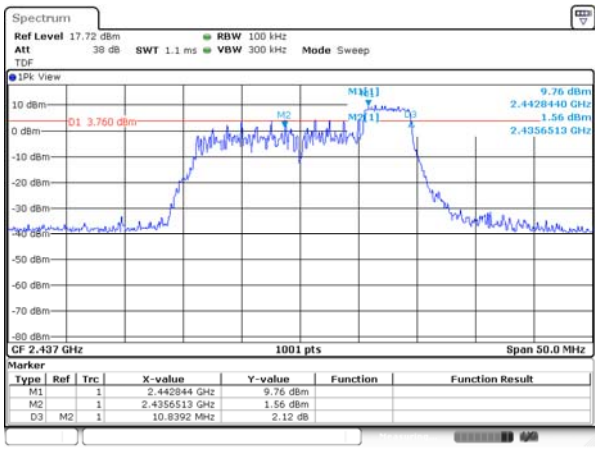	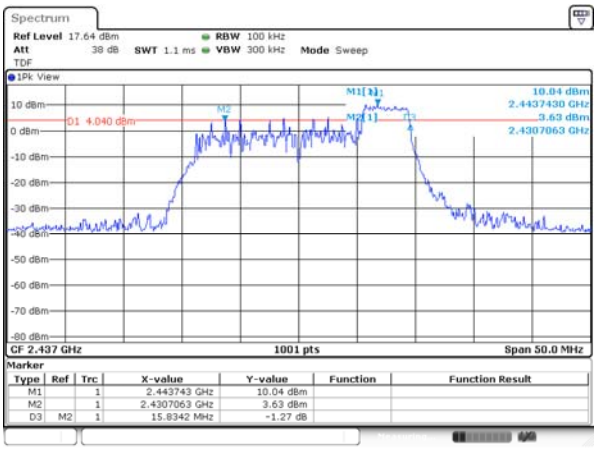

106T / 2 437 ㎒	
ANT 1	**ANT 2**
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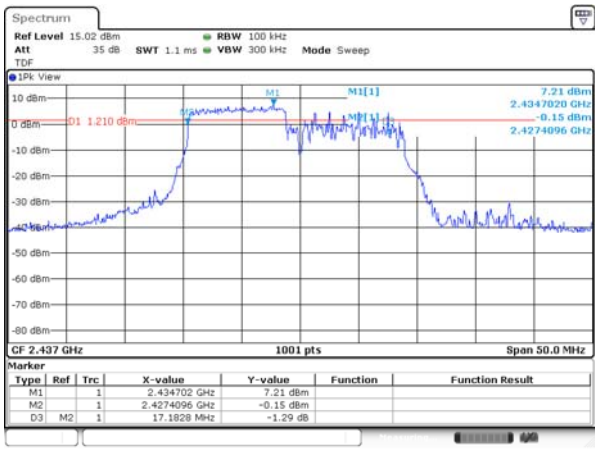	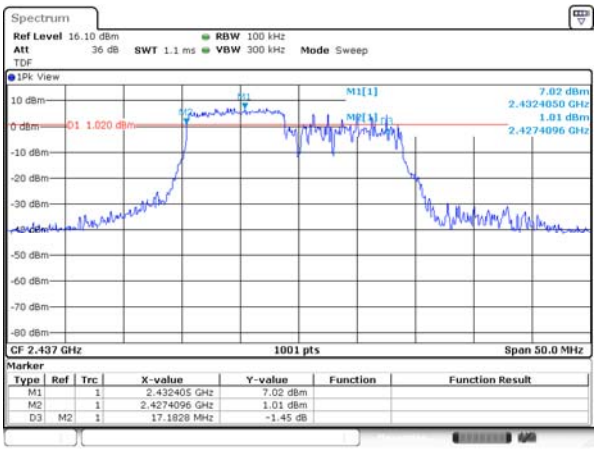
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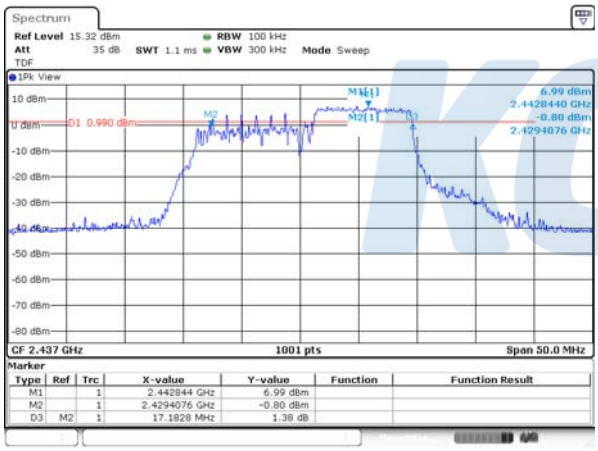
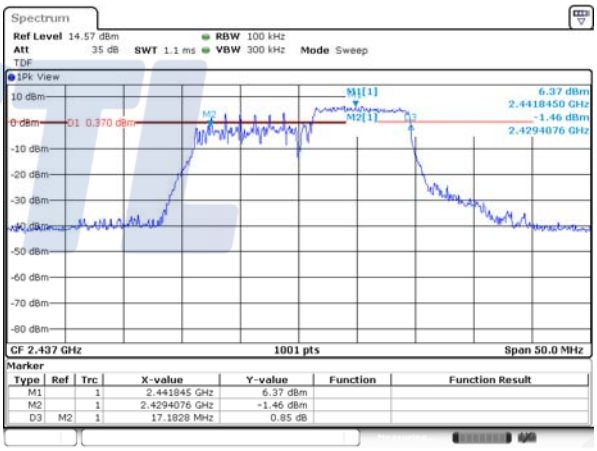
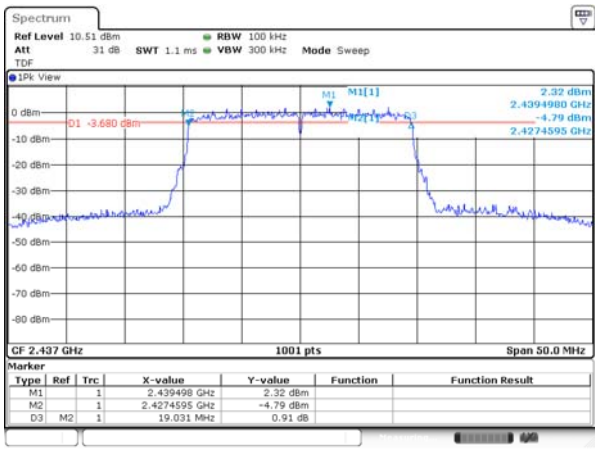
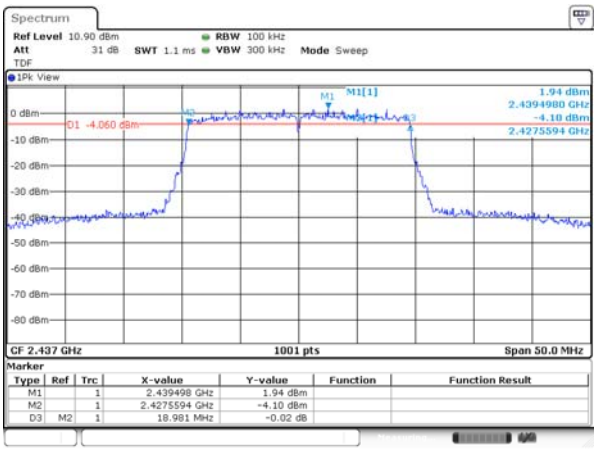
	
SU / 2 437 ㎒	
ANT 1	**ANT 2**
	

26T / 2 462 ㎒	
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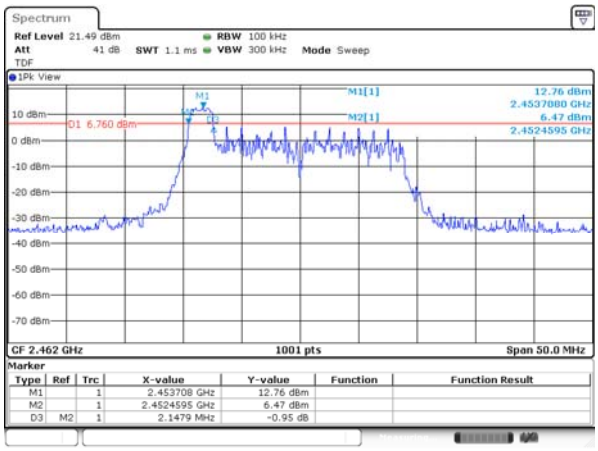	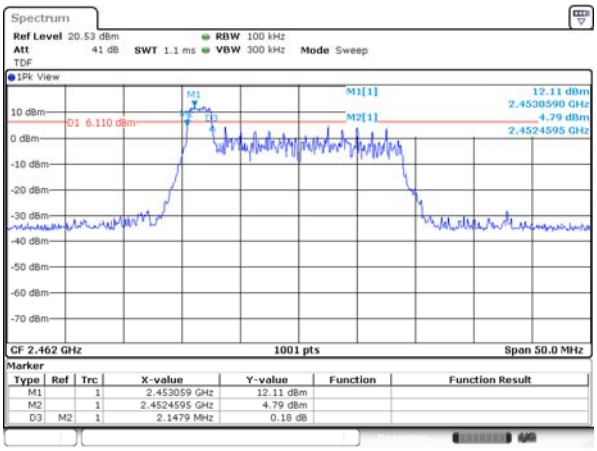
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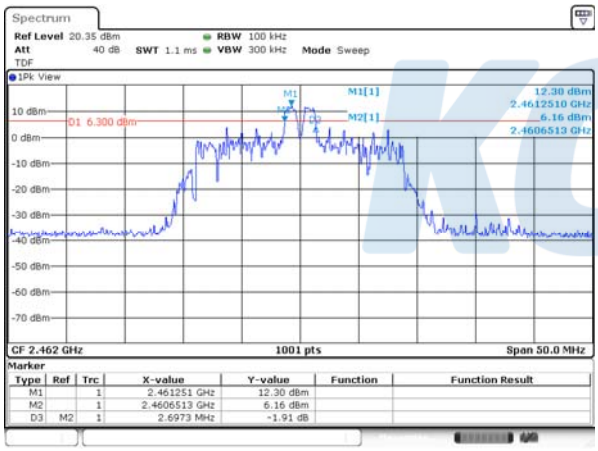	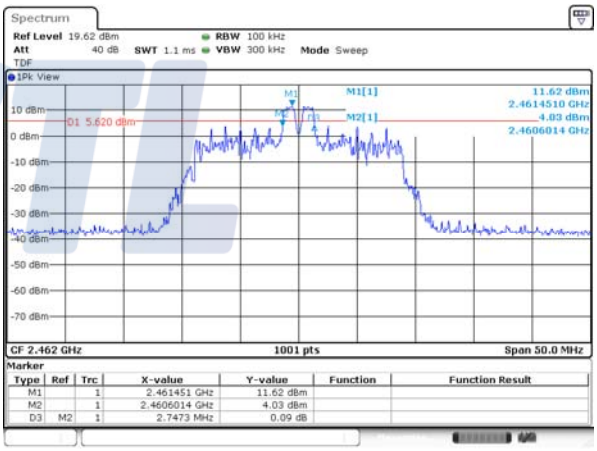
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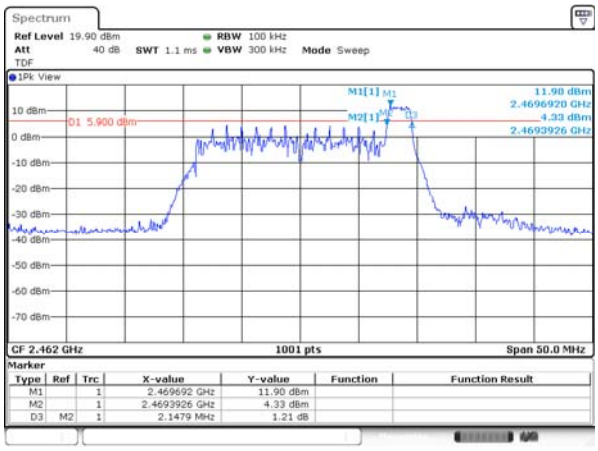	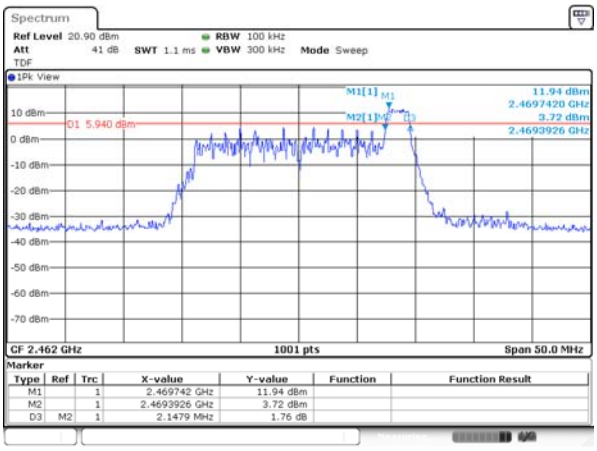

52T / 2 462 ㎒	
ANT 1	**ANT 2**
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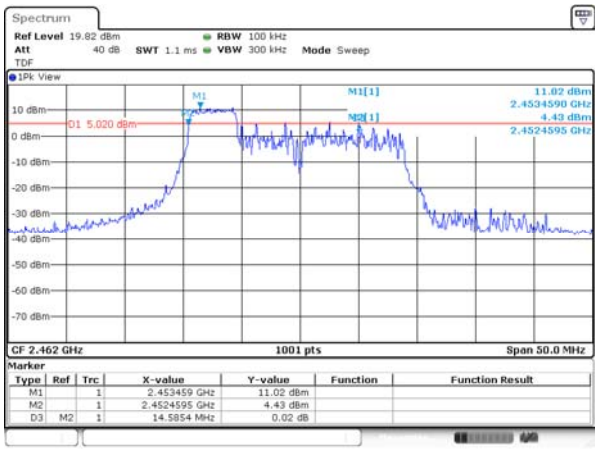	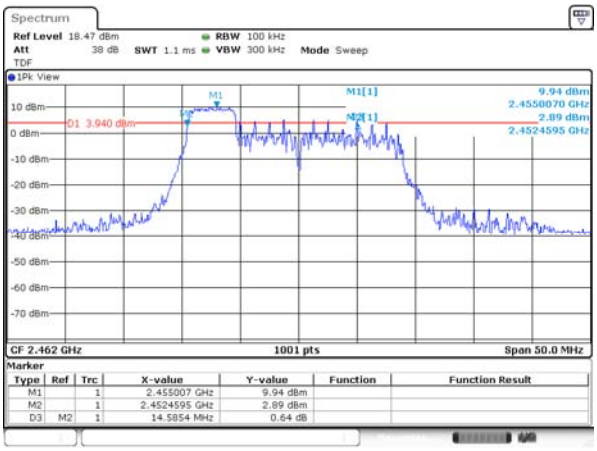
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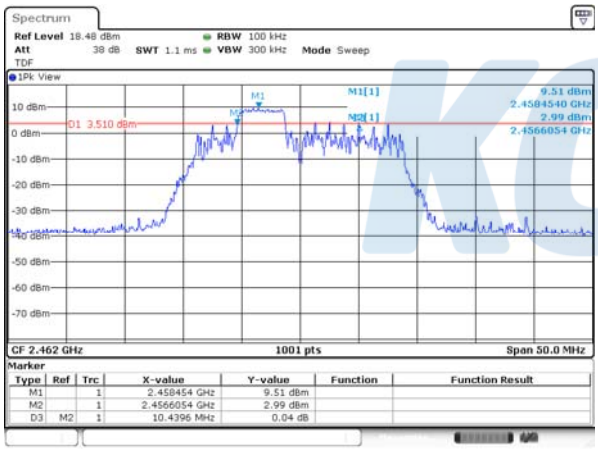	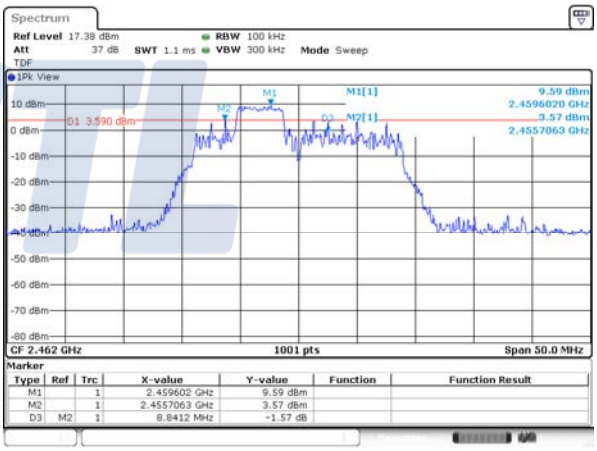
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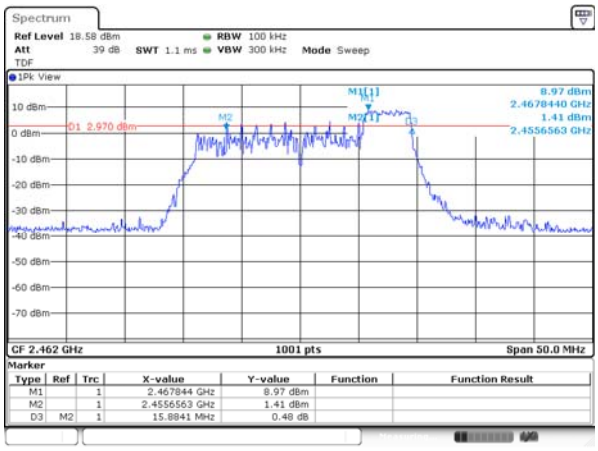	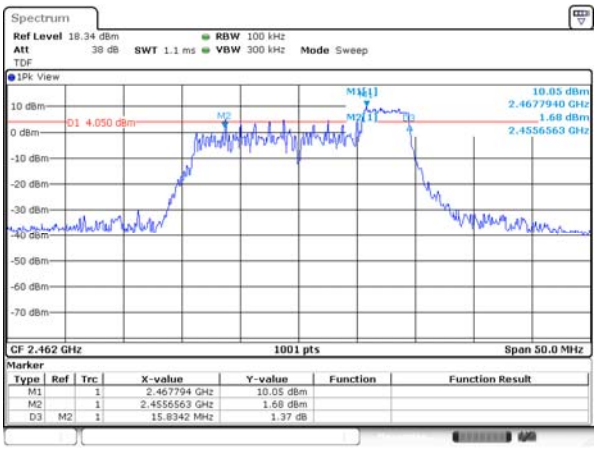

106T / 2 462 ㎒	
ANT 1	**ANT 2**
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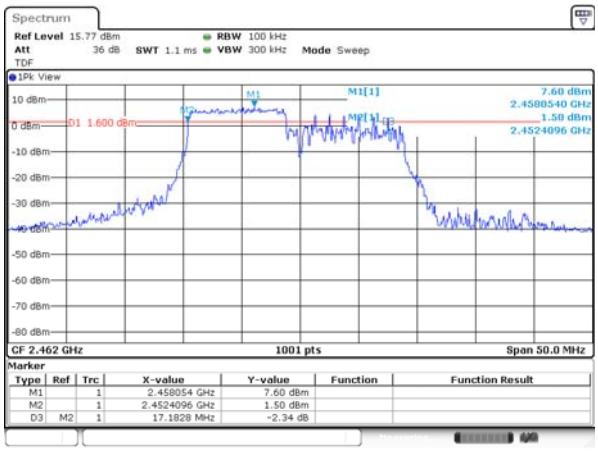	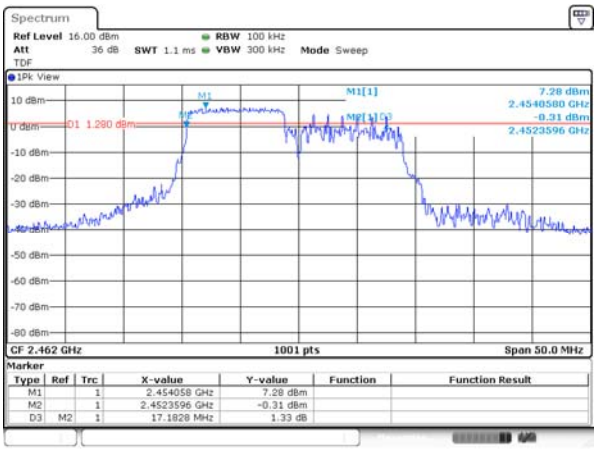
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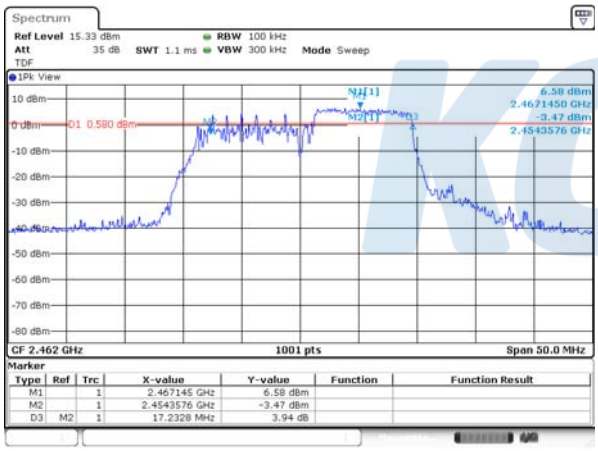
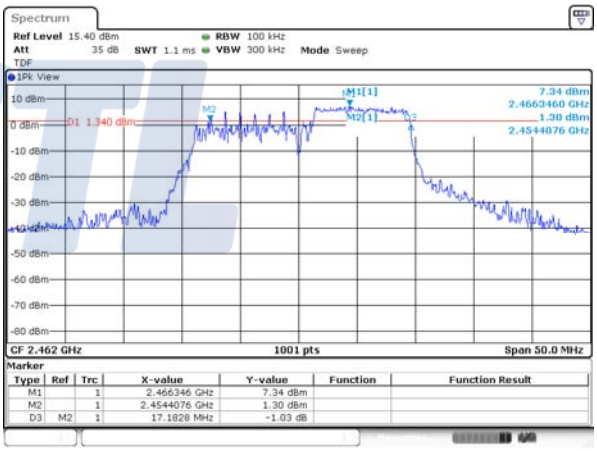
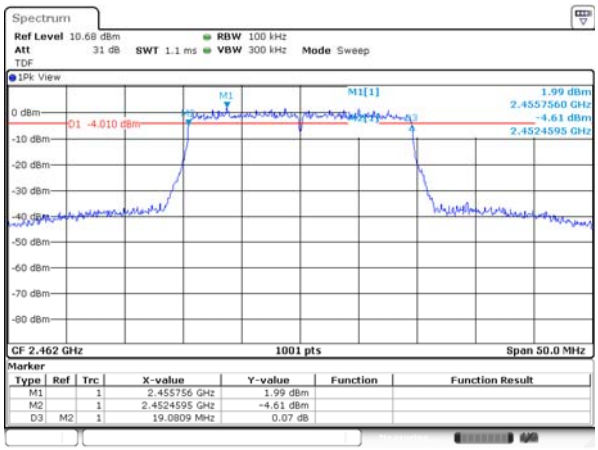
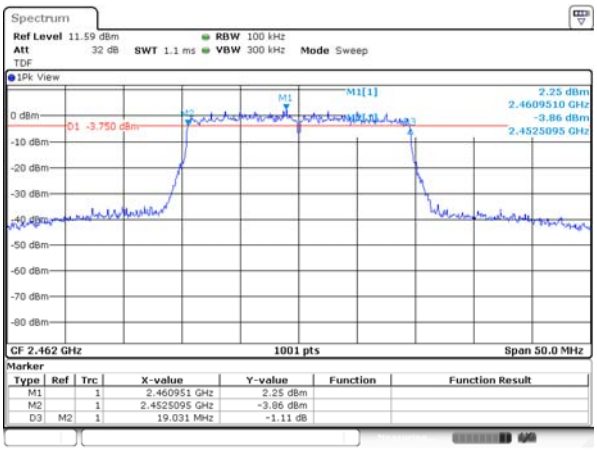
	
SU / 2 462 ㎒	
ANT 1	**ANT 2**
	

26T / 2 467 ㎒	
ANT 1	**ANT 2**
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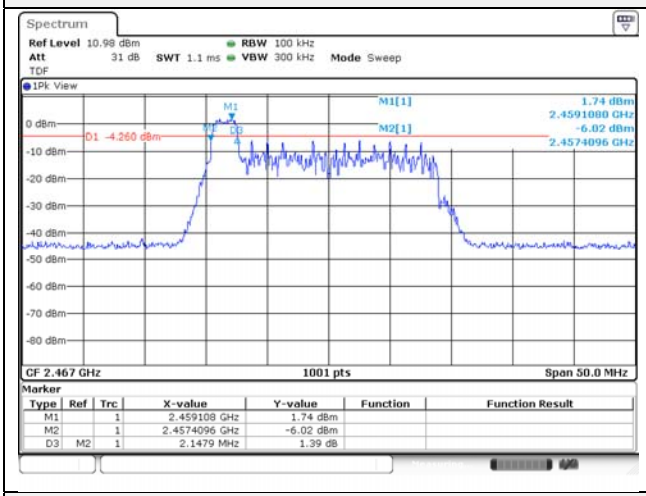	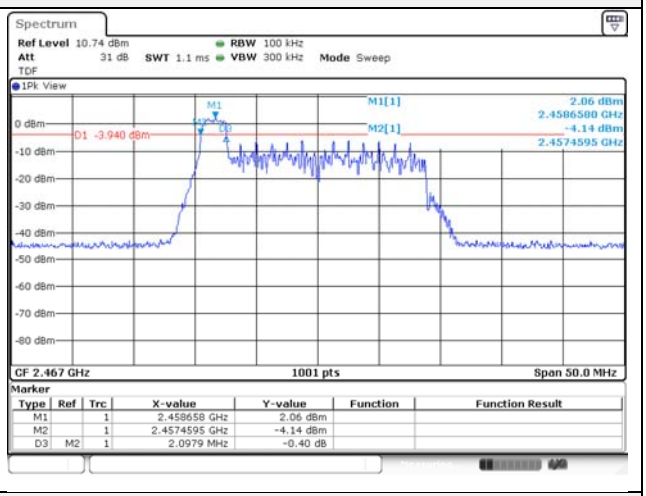
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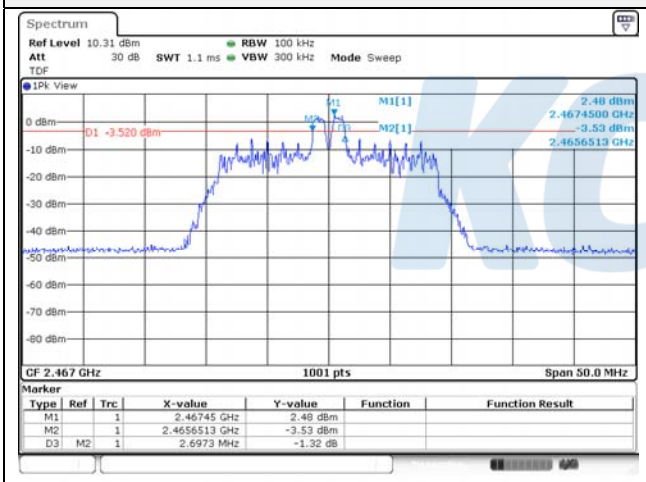	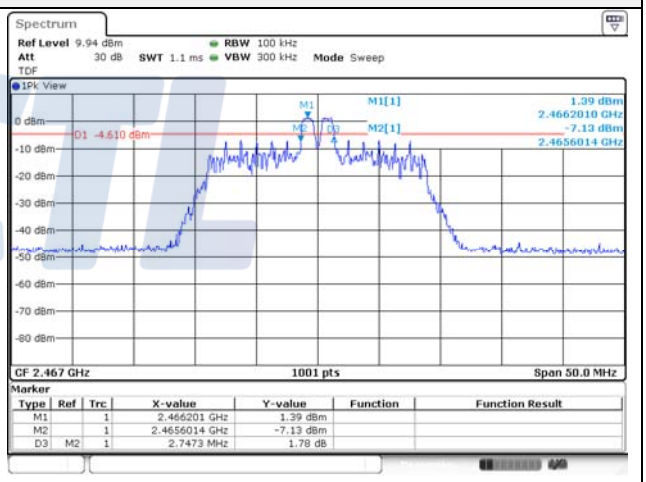
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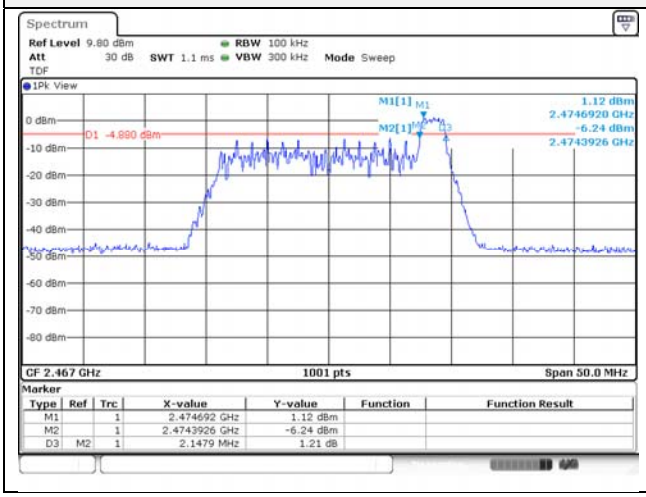
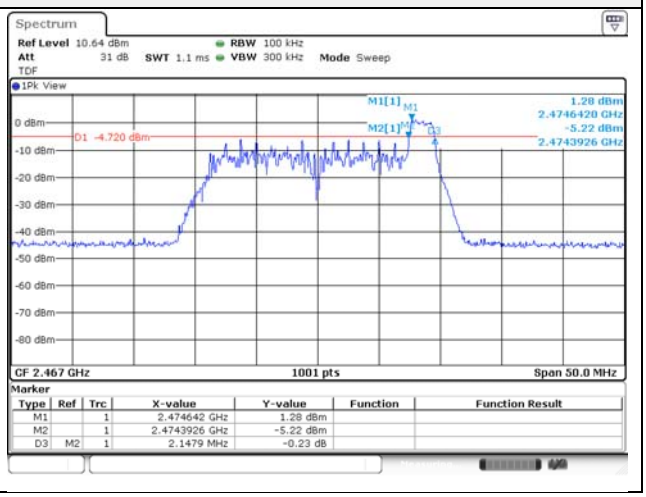
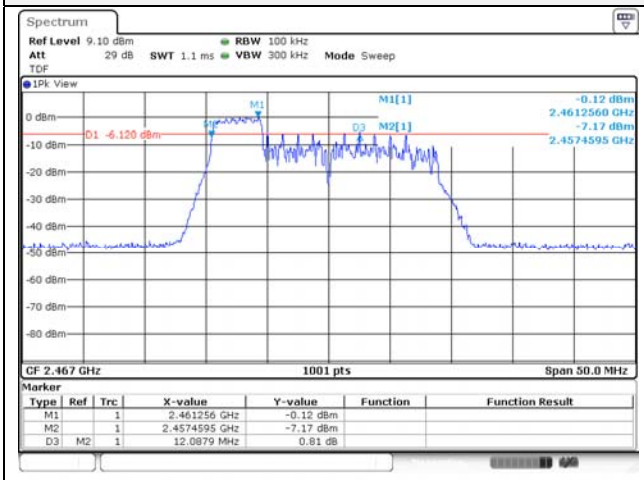
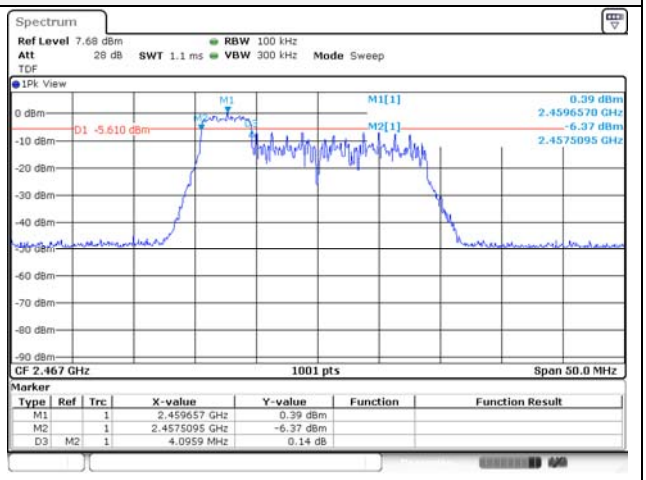
	

52T / 2 467 ㎒	
ANT 1	**ANT 2**
RU offset 37	**RU offset 37**
	
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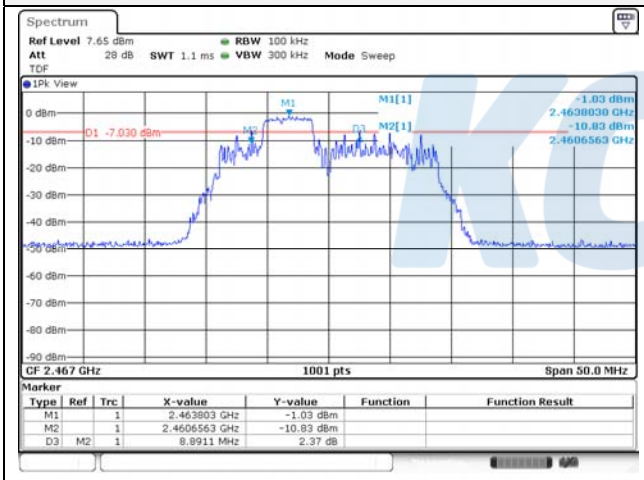	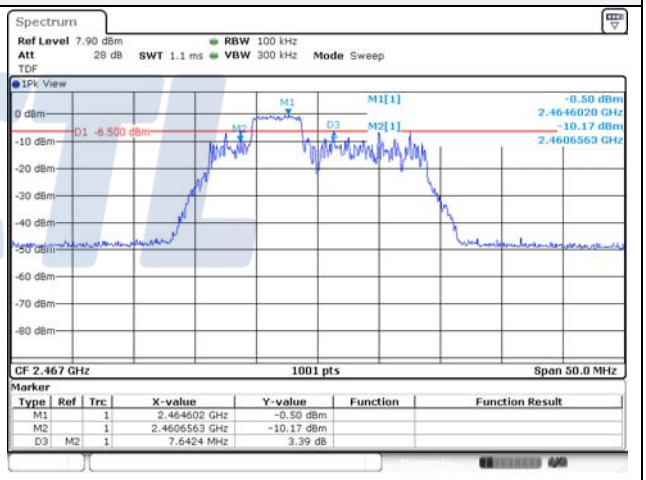
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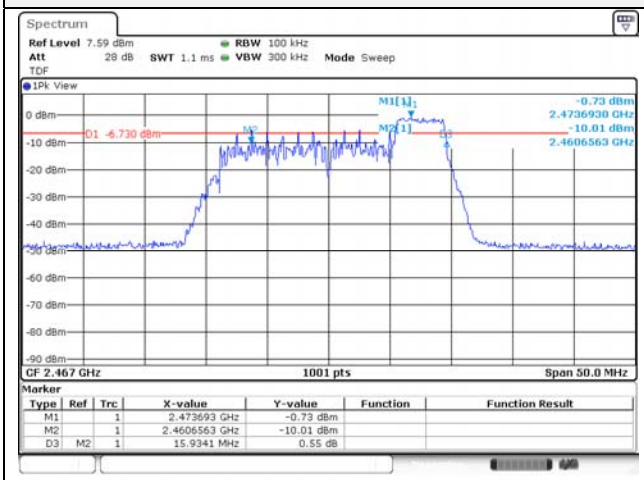
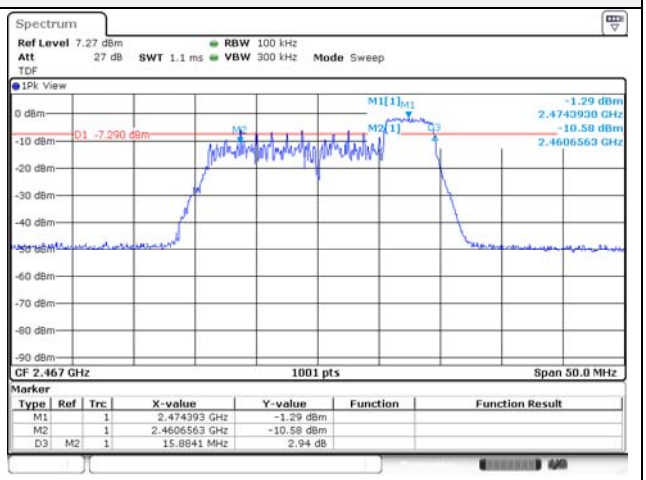
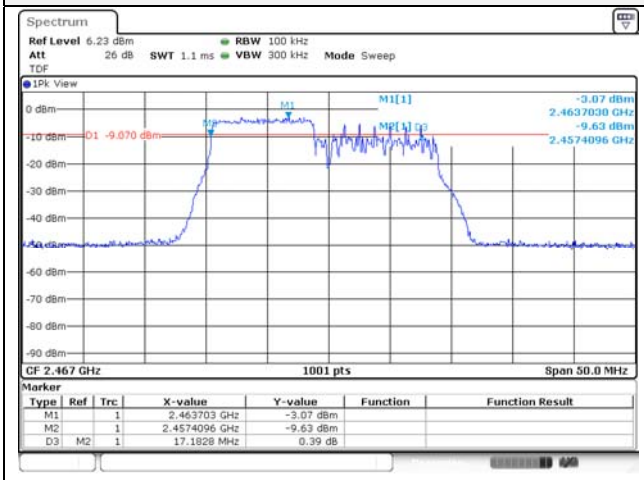
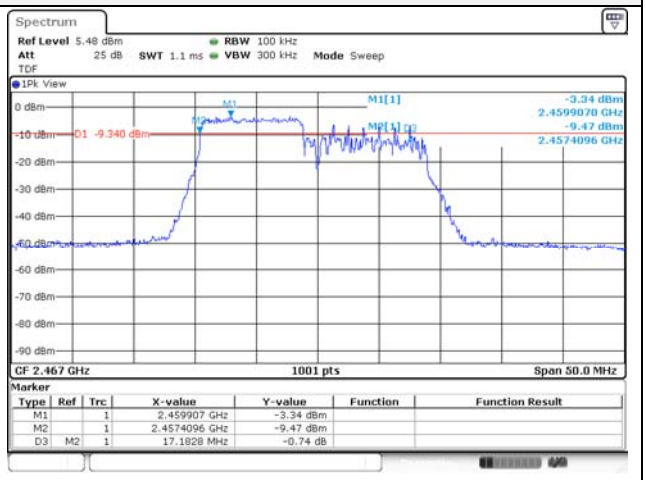
	

106T / 2 467 ㎒	
ANT 1	**ANT 2**
RU offset 53	**RU offset 53**
	
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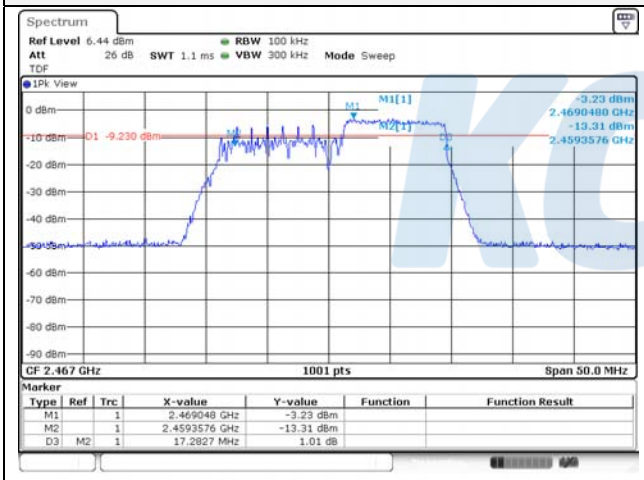
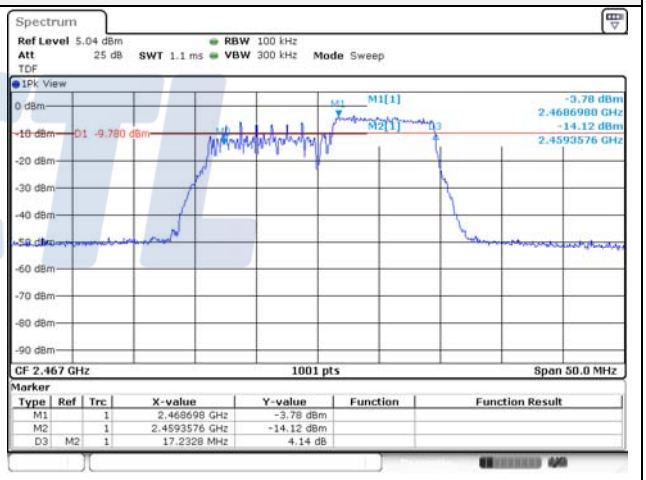
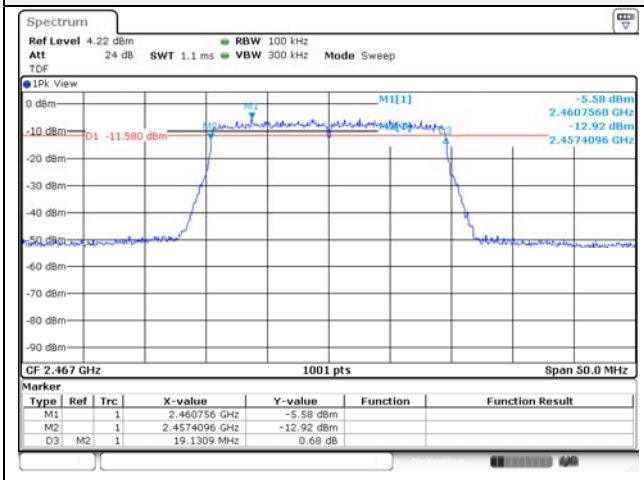
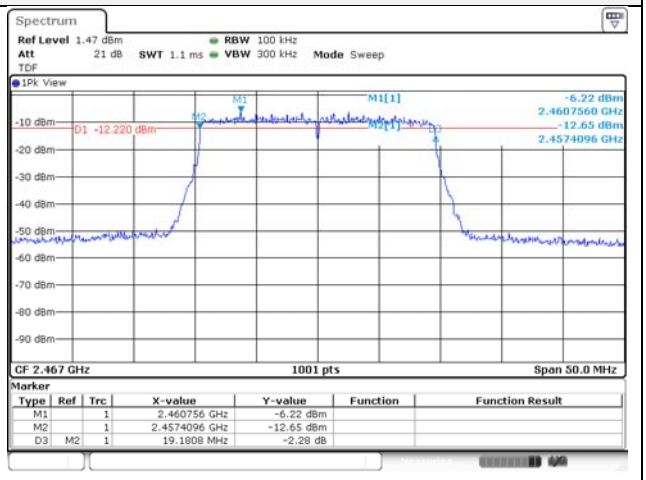
	
SU / 2 467 ㎒	
ANT 1	**ANT 2**
	

26T / 2 472 ㎒	
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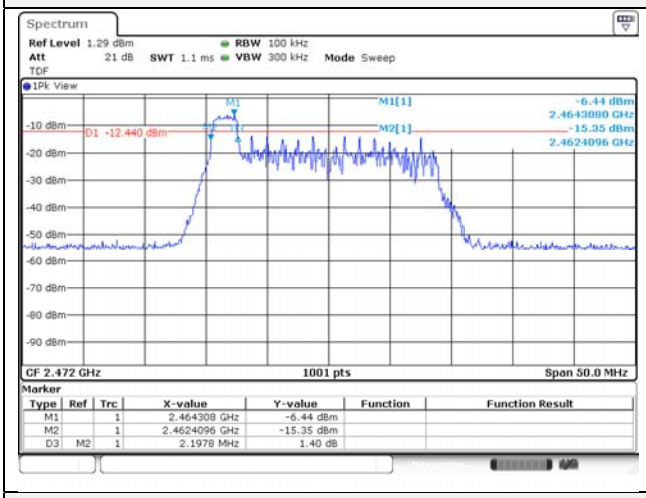	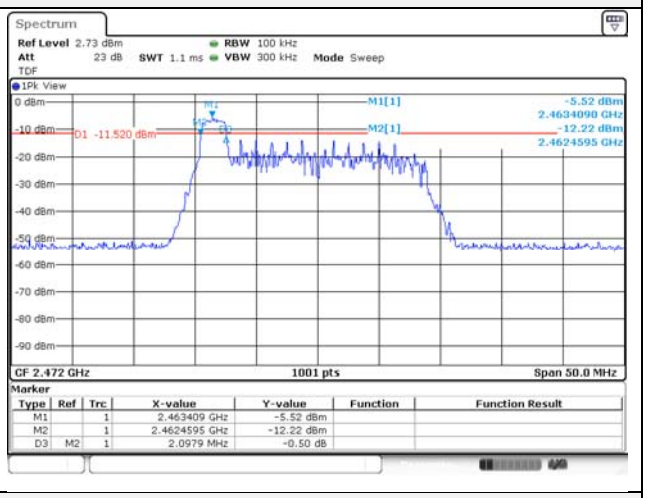
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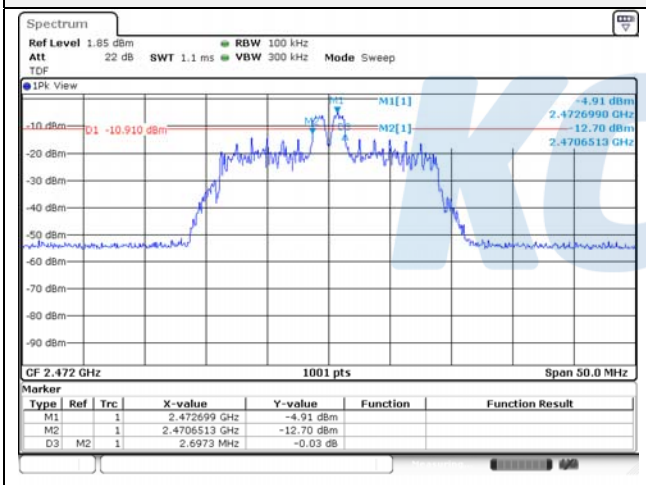
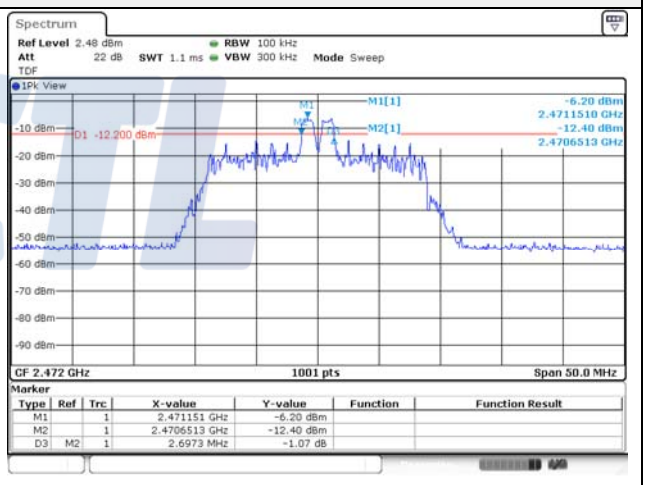
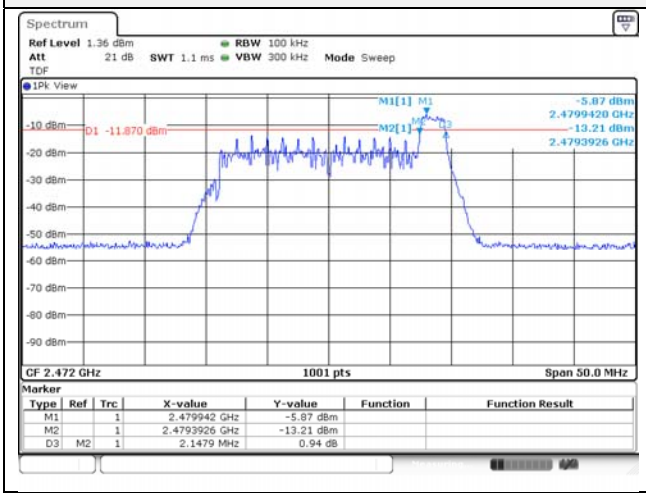
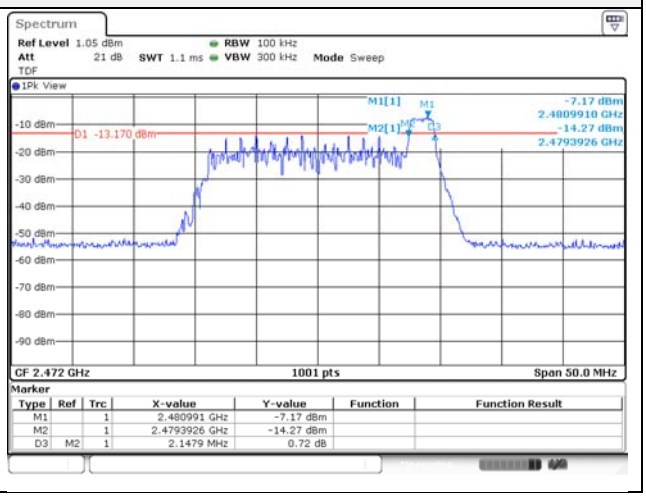
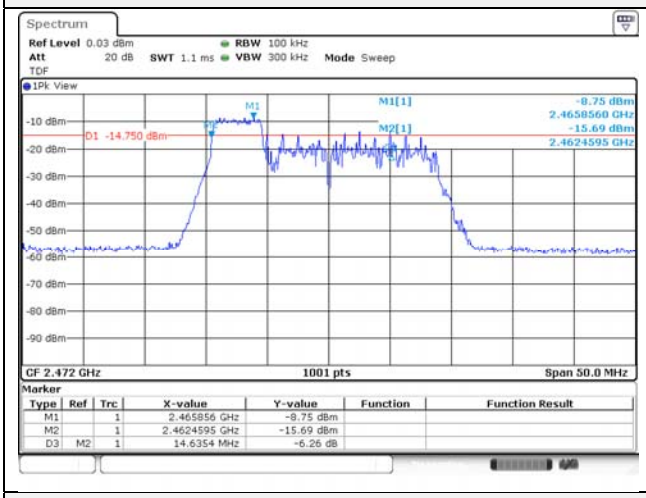
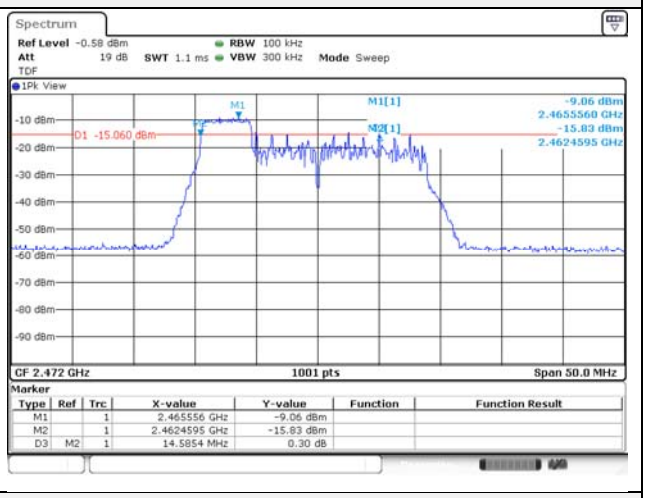
	
RU offset 8	**RU offset 8**
	

52T / 2 472 ㎒	
ANT 1	**ANT 2**
RU offset 37	**RU offset 37**
	
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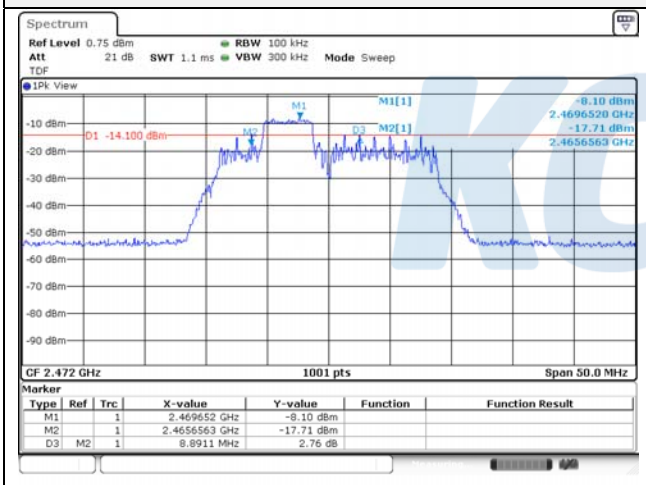
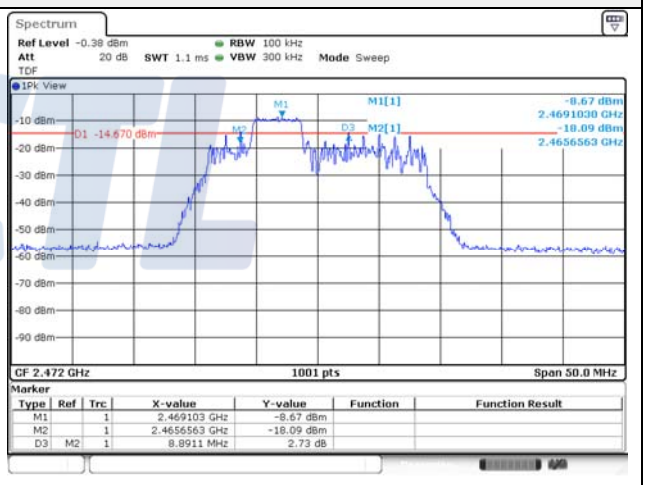
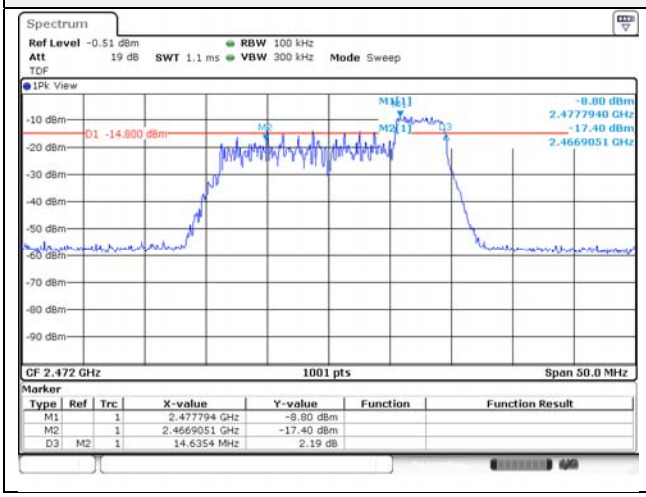
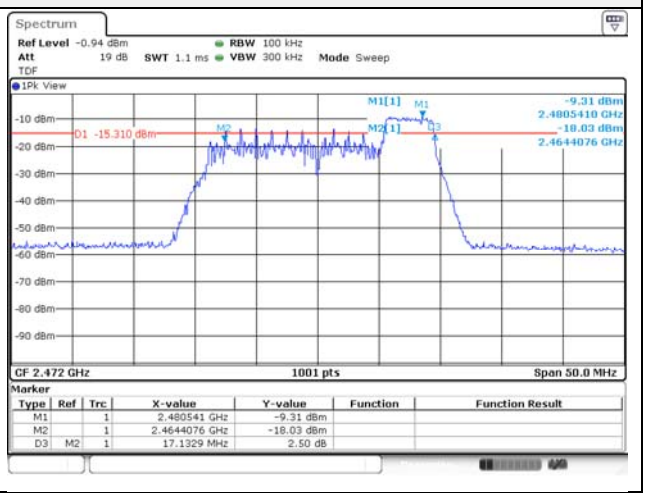
	
RU offset 40	**RU offset 40**
	

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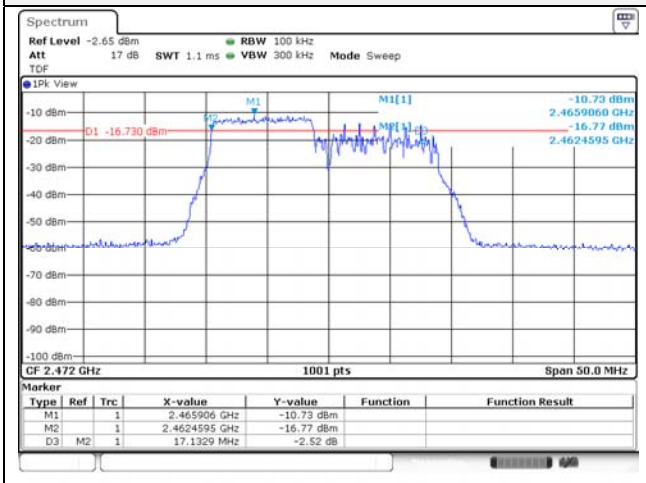
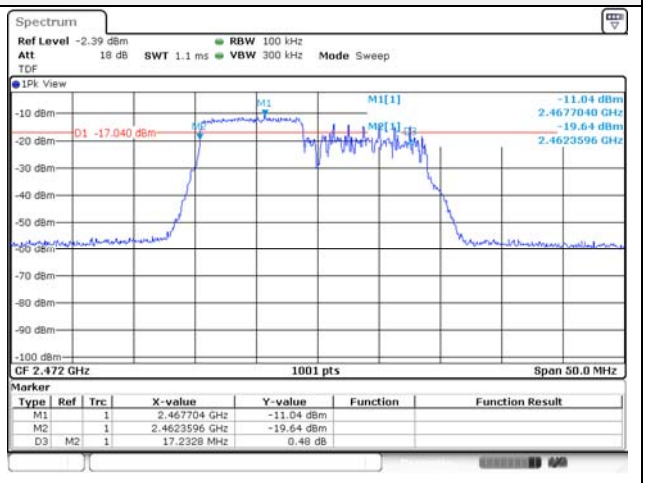
ANT 1	**ANT 2**
RU offset 53	**RU offset 53**
	
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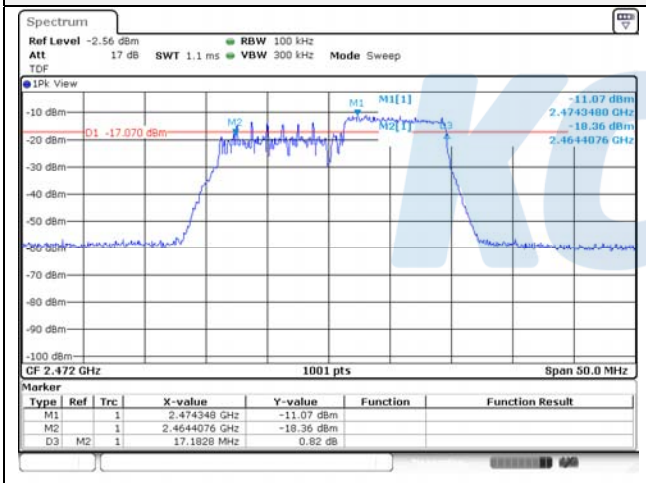
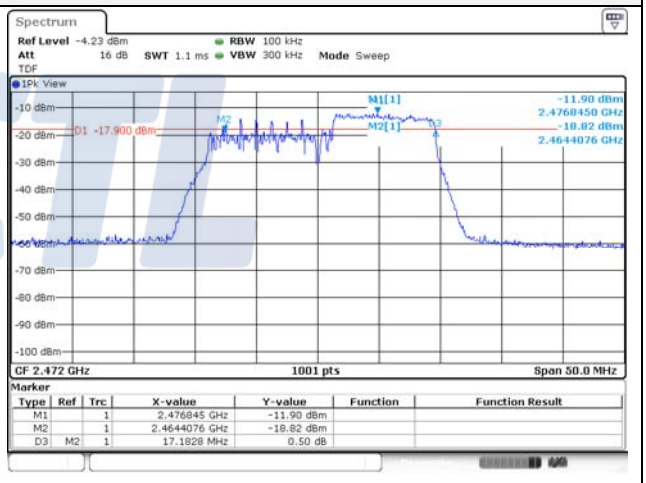
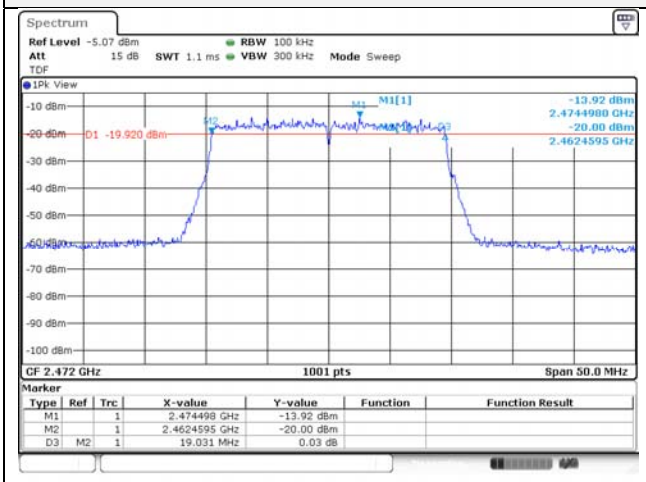
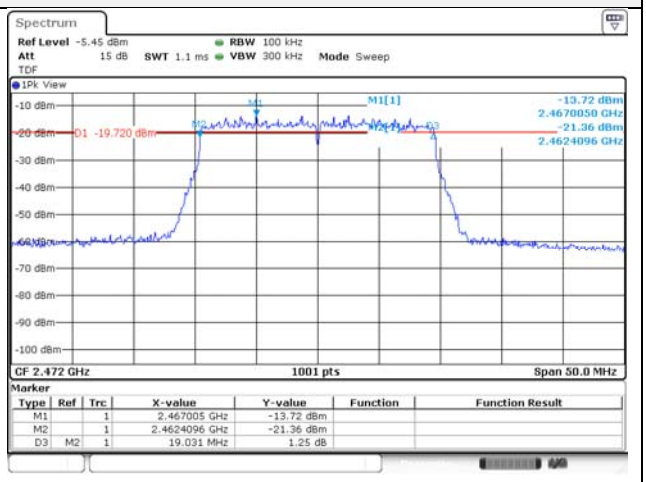
	
SU / 2 472 ㎒	
ANT 1	**ANT 2**
	

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26T / 2 412 ㎒	
ANT 1	**ANT 2**
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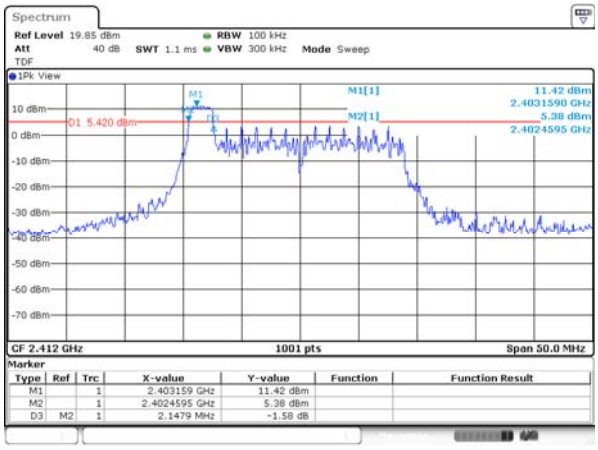
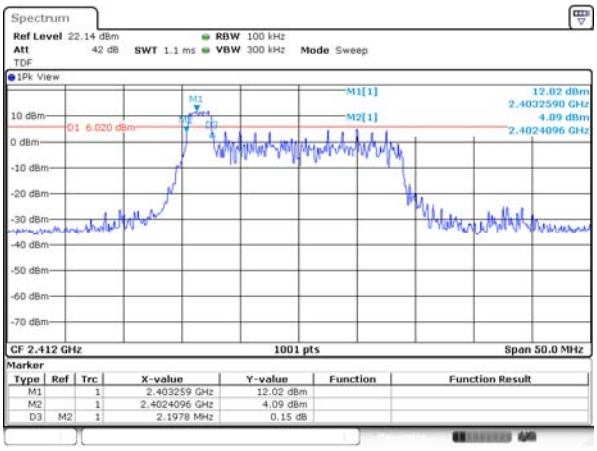
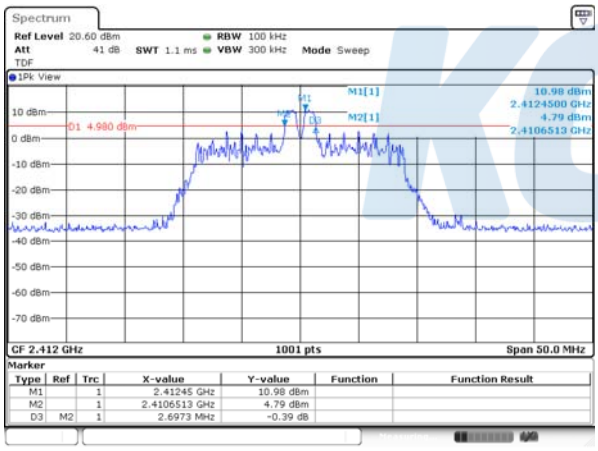
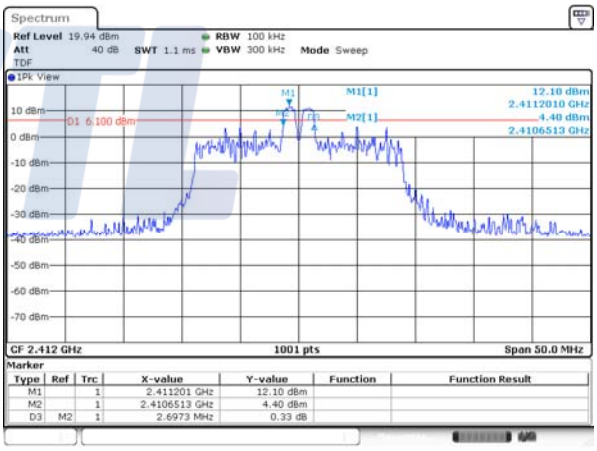
	
RU offset 4	**RU offset 4**
	
RU offset 8	**RU offset 8**