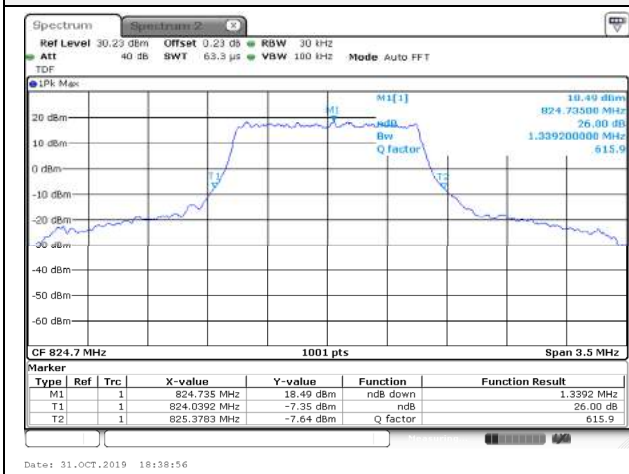


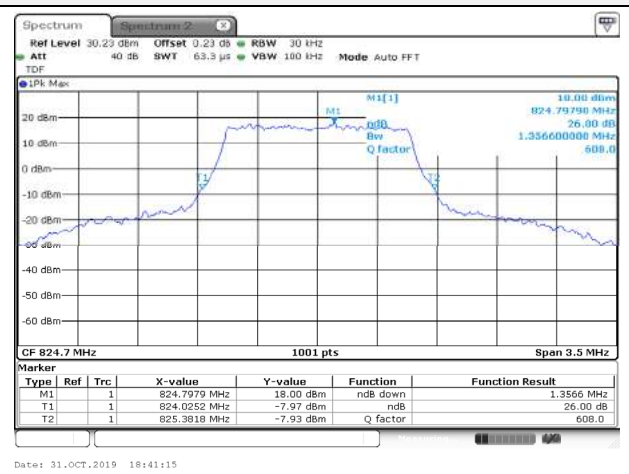
**Test mode: LTE Band 5**

**1.4M BW / QPSK / Low ch.**



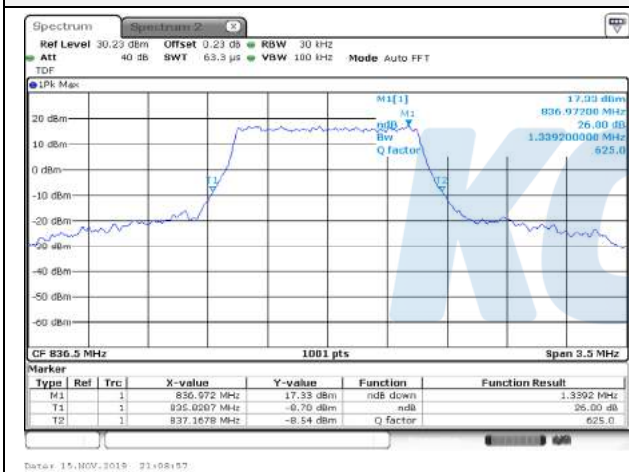
Date: 31.OCT.2019 18:38:56

**1.4M BW / 16QAM / Low ch.**



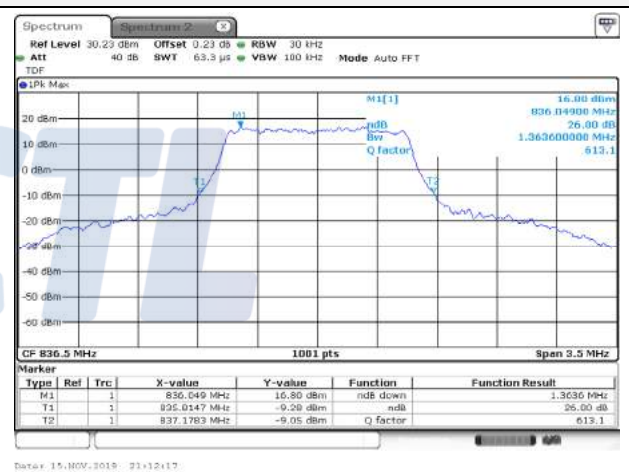
Date: 31.OCT.2019 18:41:15

**1.4M BW / QPSK / Mid ch.**



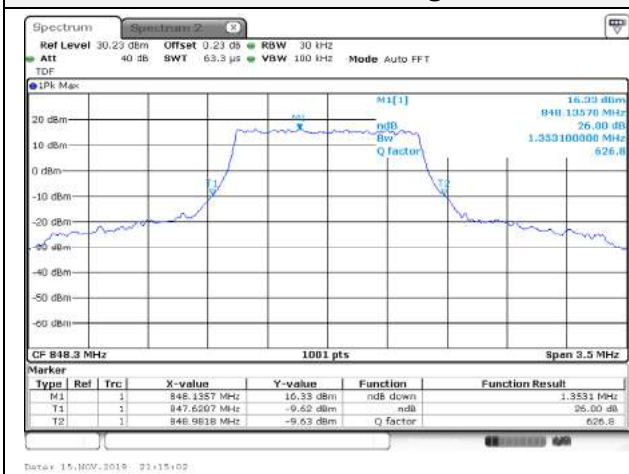
Date: 15.NOV.2019 21:08:57

**1.4M BW / 16QAM / Mid ch.**



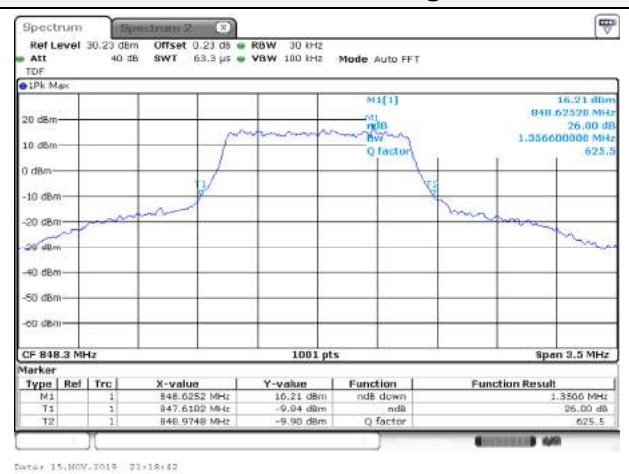
Date: 15.NOV.2019 21:12:17

**1.4M BW / QPSK / High ch.**



Date: 15.NOV.2019 21:15:02

**1.4M BW / 16QAM / High ch.**



Date: 15.NOV.2019 21:18:42

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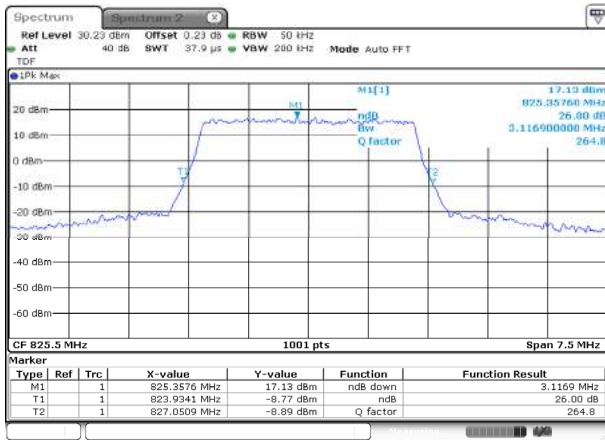
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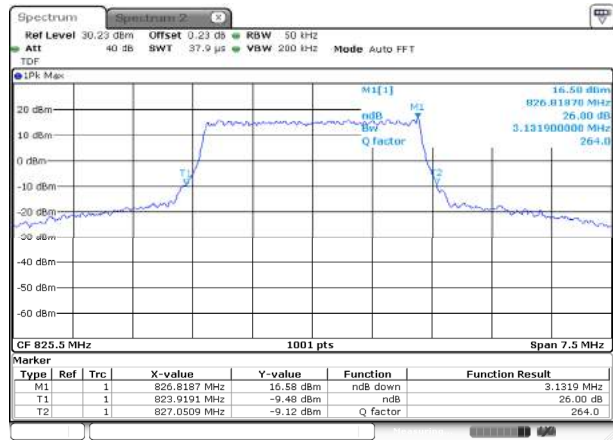
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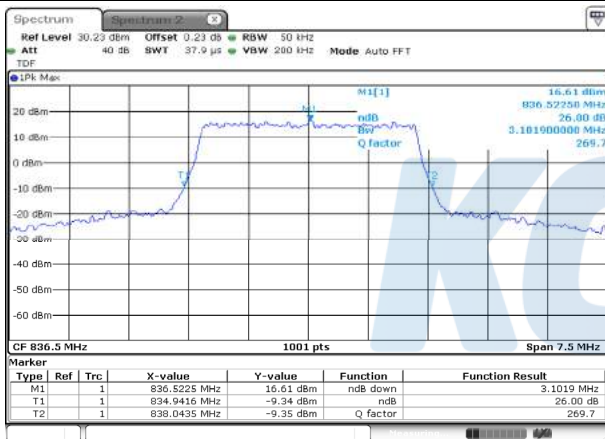
## 3M BW / QPSK / Low ch.



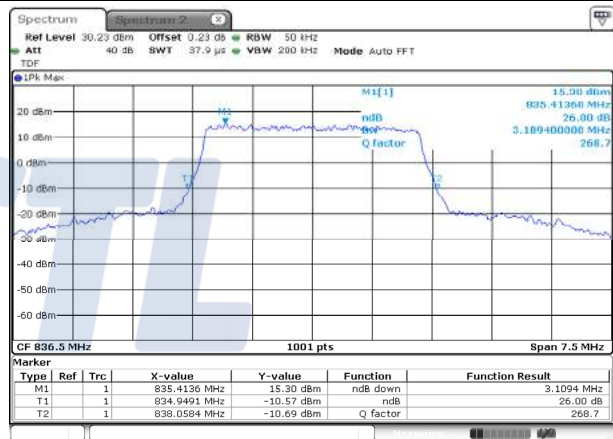
## 3M BW / 16QAM / Low ch.



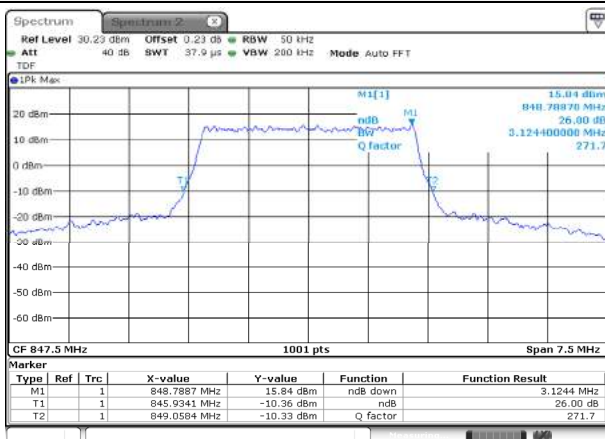
## 3M BW / QPSK / Mid ch.



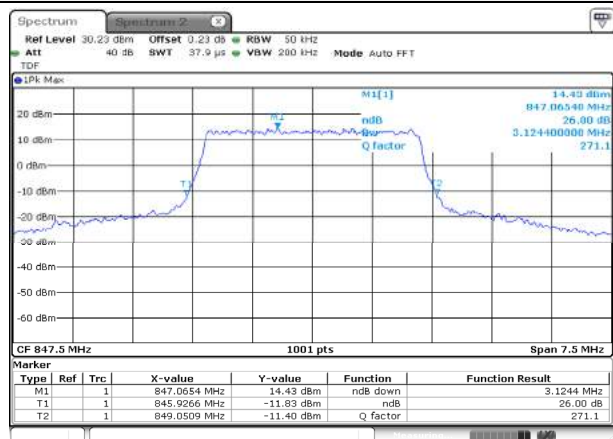
## 3M BW / 16QAM / Mid ch.



## 3M BW / QPSK / High ch.



## 3M BW / 16QAM / High ch.



# KCTL Inc.

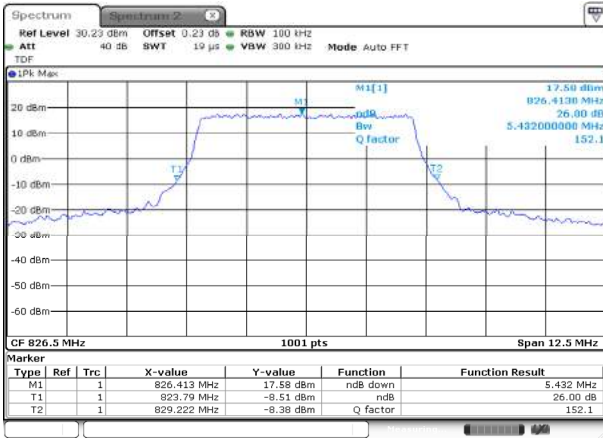
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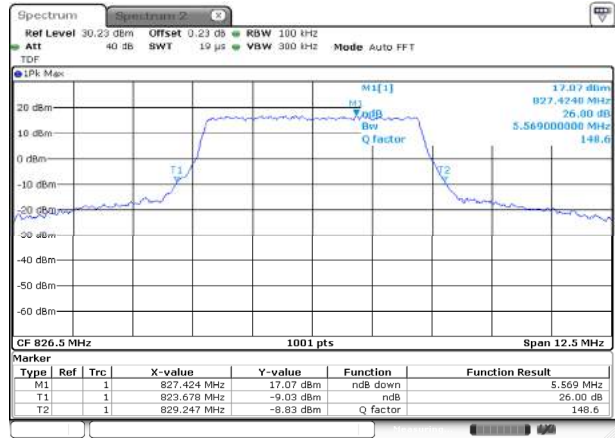


## 5M BW / QPSK / Low ch.



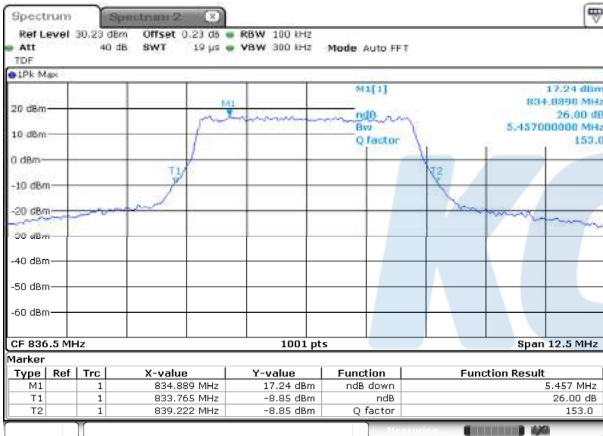
Date: 31.OCT.2019 19:24:44

## 5M BW / 16QAM / Low ch.



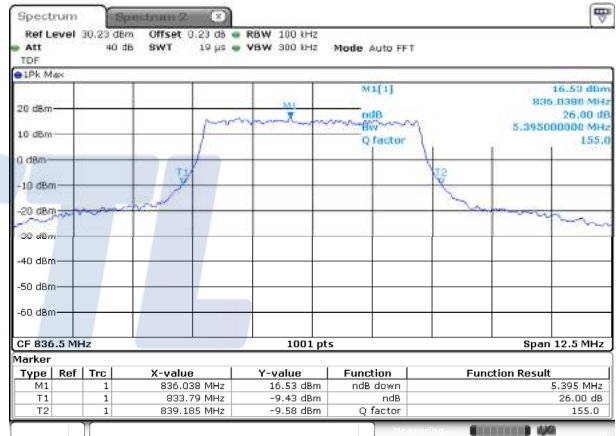
Date: 31.OCT.2019 19:28:04

## 5M BW / QPSK / Mid ch.



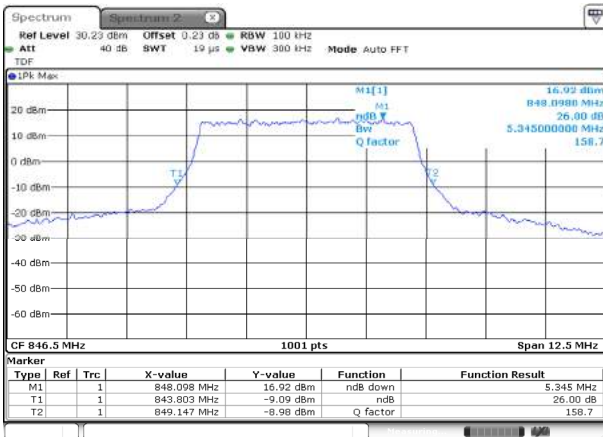
Date: 15.NOV.2019 21:48:05

## 5M BW / 16QAM / Mid ch.



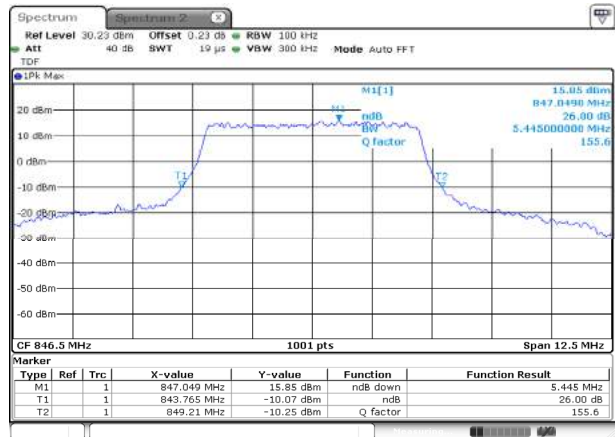
Date: 15.NOV.2019 21:49:45

## 5M BW / QPSK / High ch.



Date: 15.NOV.2019 21:51:48

## 5M BW / 16QAM / High ch.



Date: 15.NOV.2019 21:53:11

# KCTL Inc.

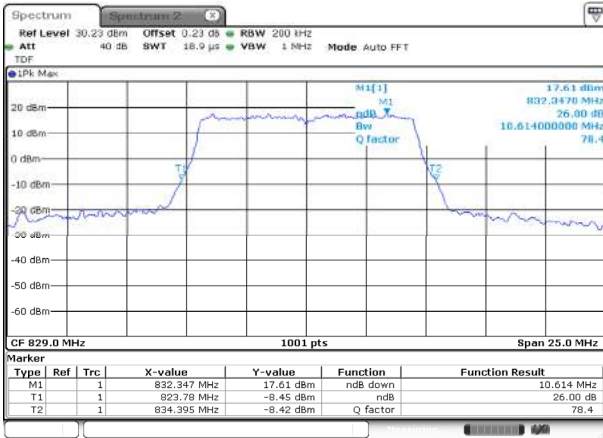
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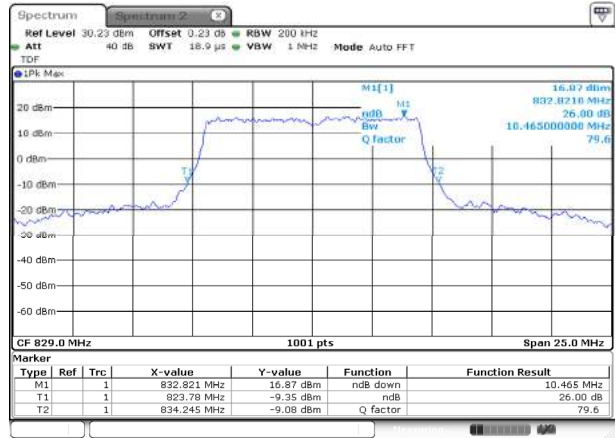


## 10M BW / QPSK / Low ch.



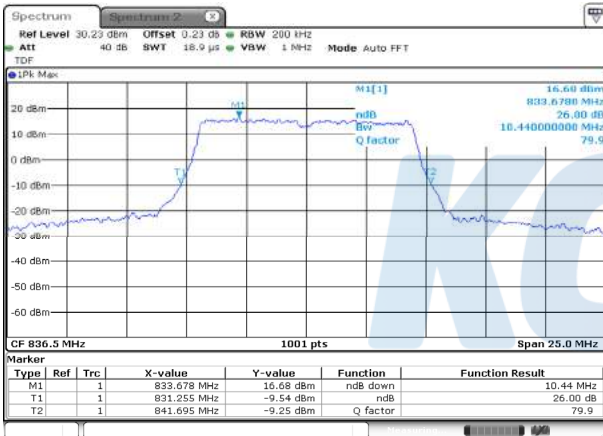
Date: 31.OCT.2019 19:53:04

## 10M BW / 16QAM / Low ch.



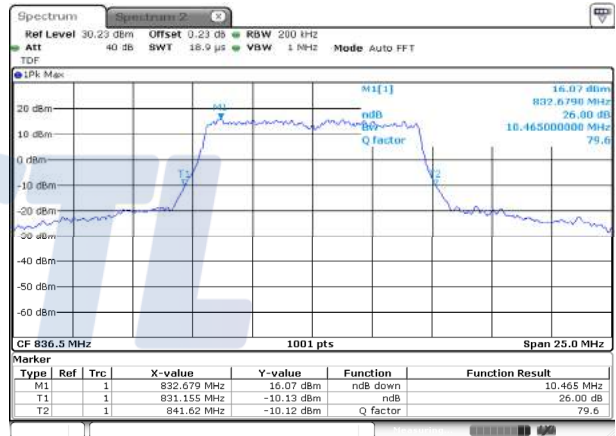
Date: 31.OCT.2019 19:58:13

## 10M BW / QPSK / Mid ch.



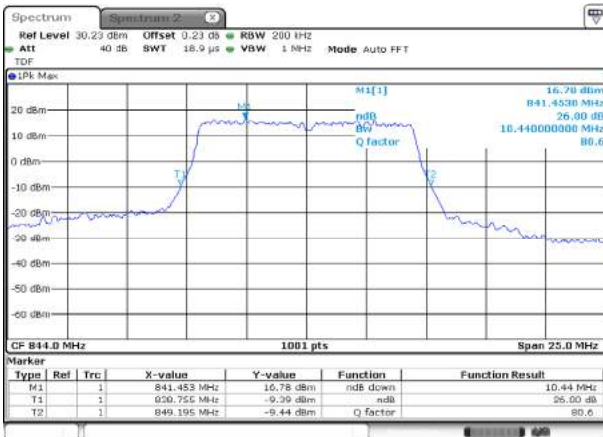
Date: 15.NOV.2019 21:55:20

## 10M BW / 16QAM / Mid ch.



Date: 15.NOV.2019 21:56:55

## 10M BW / QPSK / High ch.



Date: 15.NOV.2019 21:58:00

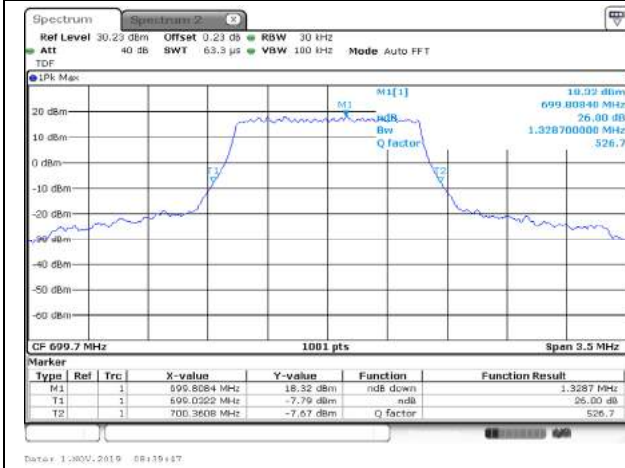
## 10M BW / 16QAM / High ch.



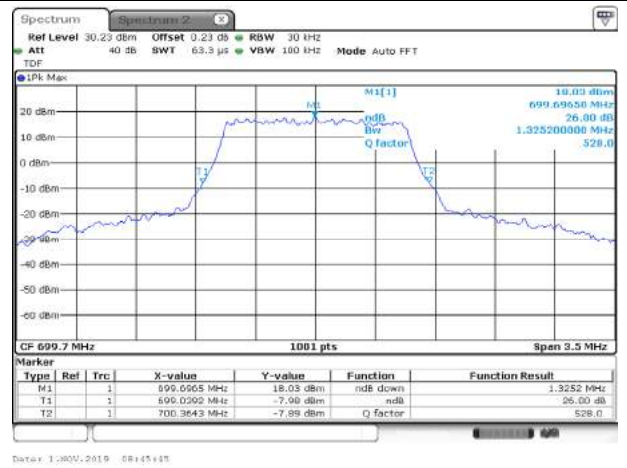
Date: 15.NOV.2019 22:00:00

## Test mode: LTE Band 12

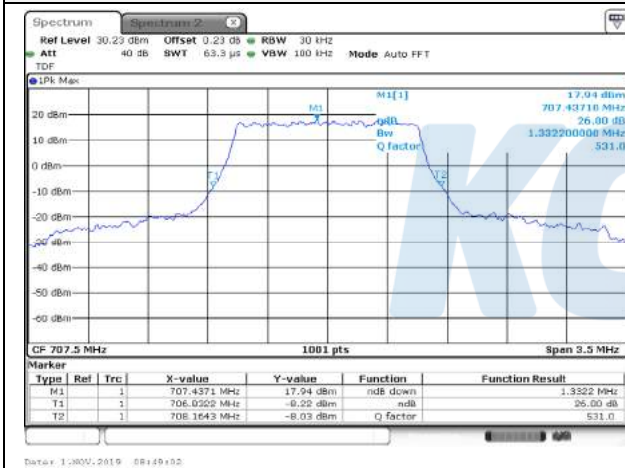
### 1.4M BW / QPSK / Low ch.



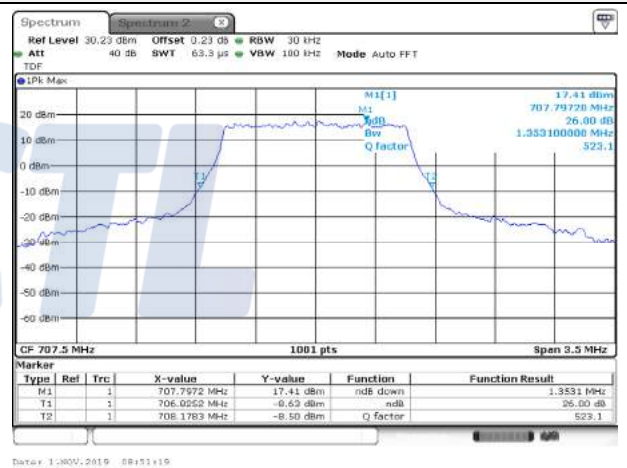
### 1.4M BW / 16QAM / Low ch.



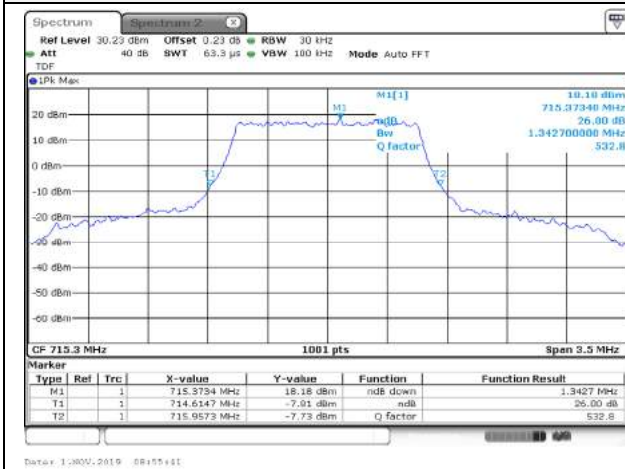
### 1.4M BW / QPSK / Mid ch.



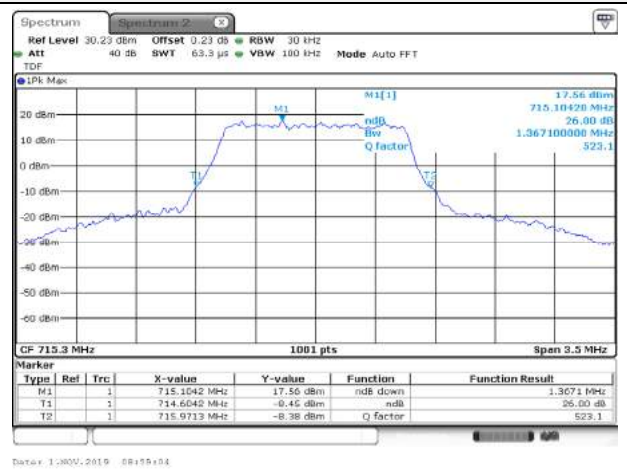
### 1.4M BW / 16QAM / Mid ch.



### 1.4M BW / QPSK / High ch.



### 1.4M BW / 16QAM / High ch.



# KCTL Inc.

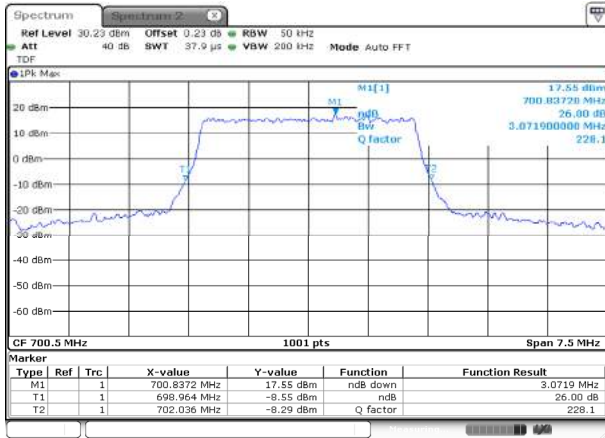
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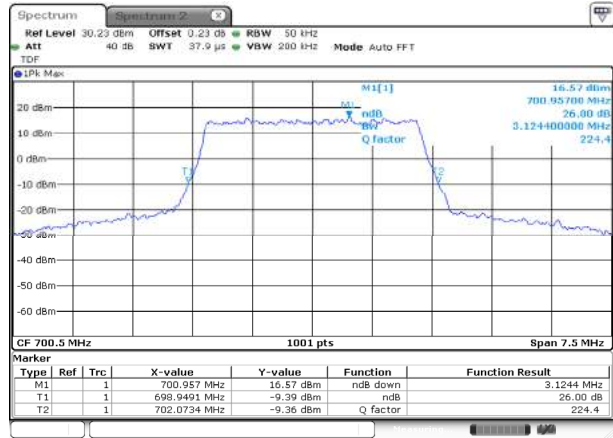


## 3M BW / QPSK / Low ch.



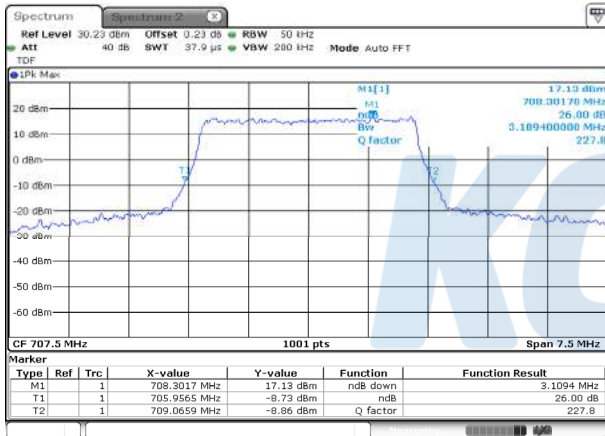
Date: 1.NOV.2019 09:09:35

## 3M BW / 16QAM / Low ch.



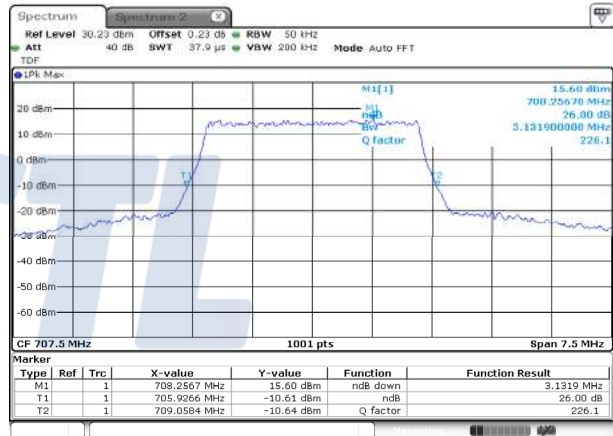
Date: 1.NOV.2019 09:12:01

## 3M BW / QPSK / Mid ch.



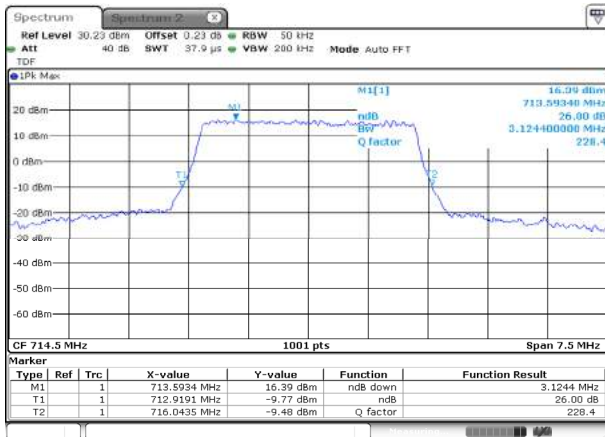
Date: 1.NOV.2019 09:14:31

## 3M BW / 16QAM / Mid ch.



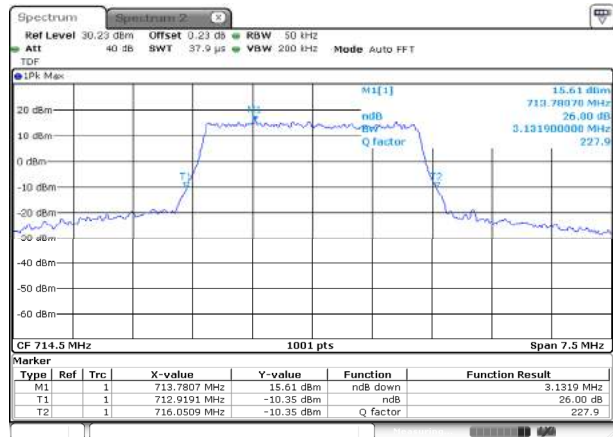
Date: 1.NOV.2019 09:17:39

## 3M BW / QPSK / High ch.



Date: 1.NOV.2019 09:20:00

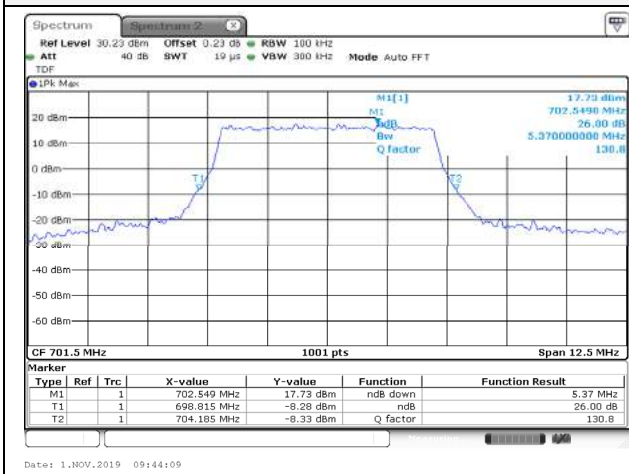
## 3M BW / 16QAM / High ch.



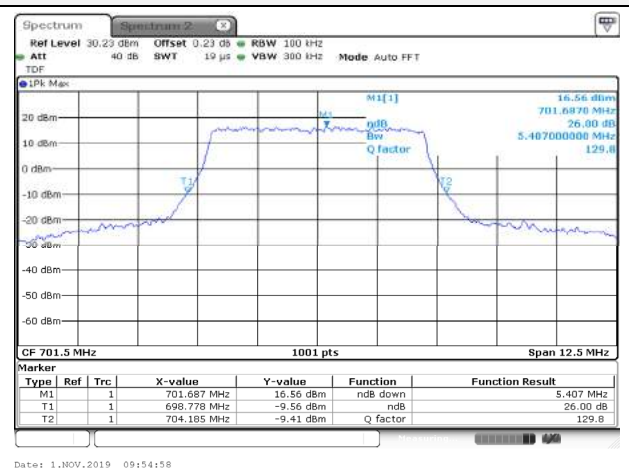
Date: 1.NOV.2019 09:23:02

**Test mode: LTE Band 12/17**

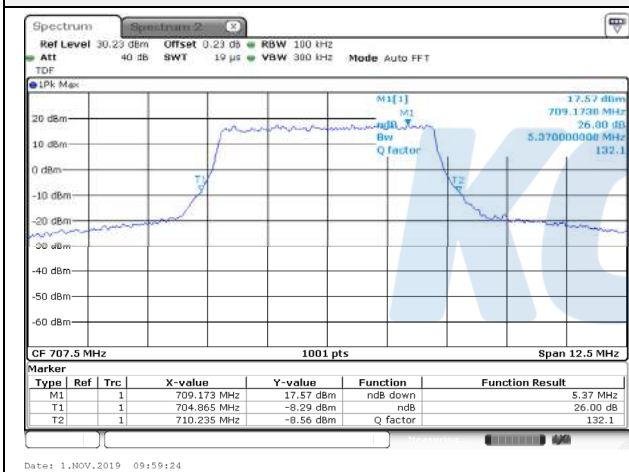
**5M BW / QPSK / Low ch.**



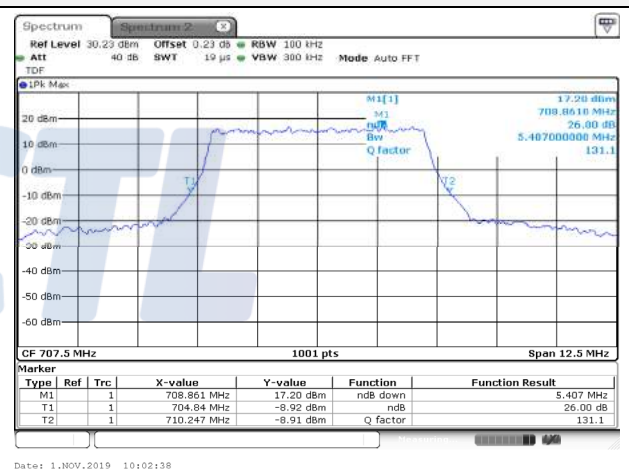
**5M BW / 16QAM / Low ch.**



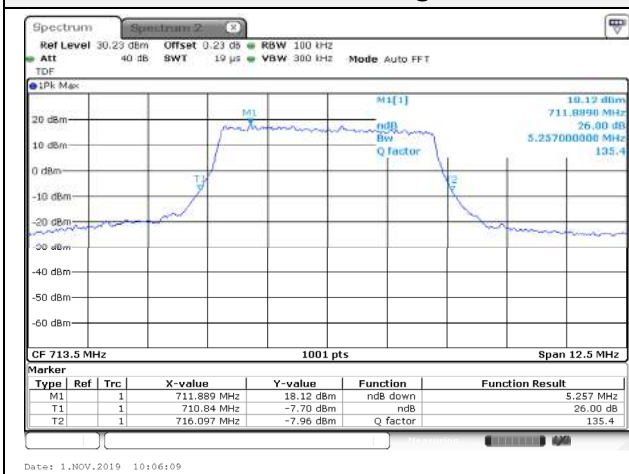
**5M BW / QPSK / Mid ch.**



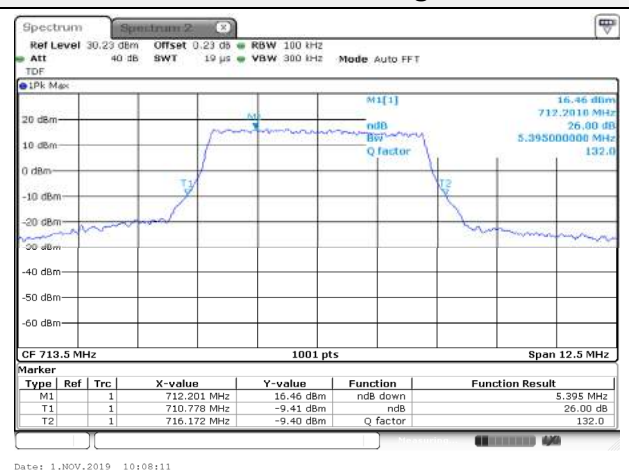
**5M BW / 16QAM / Mid ch.**



**5M BW / QPSK / High ch.**



**5M BW / 16QAM / High ch.**



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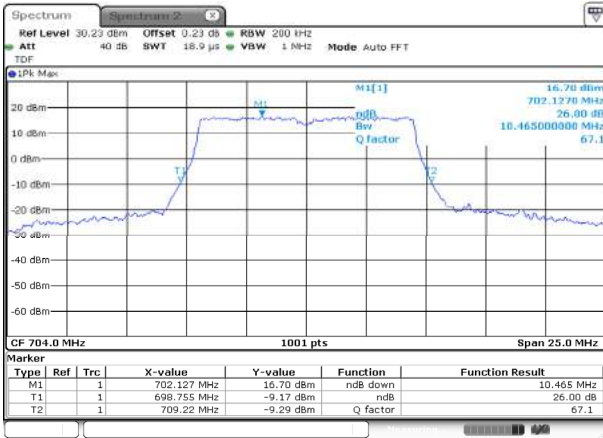
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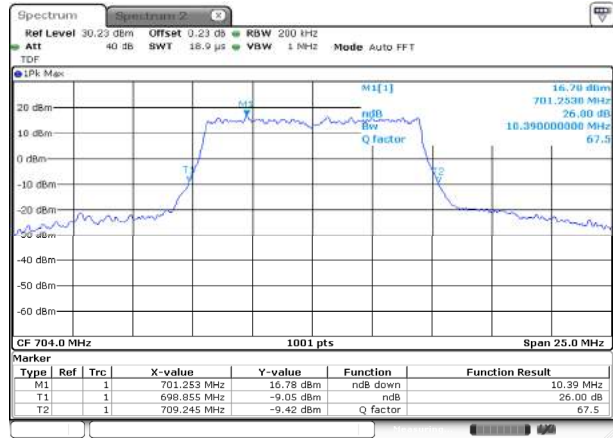


## 10M BW / QPSK / Low ch.



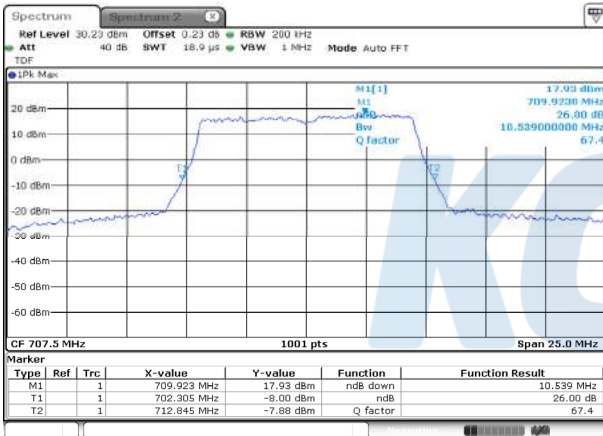
Date: 1.NOV.2019 10:15:32

## 10M BW / 16QAM / Low ch.



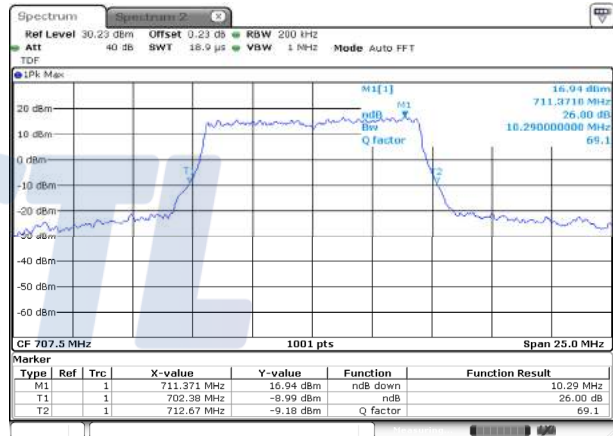
Date: 1.NOV.2019 10:17:57

## 10M BW / QPSK / Mid ch.



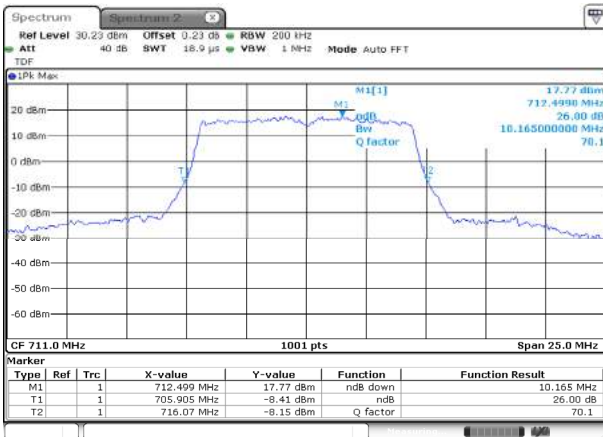
Date: 1.NOV.2019 10:43:13

## 10M BW / 16QAM / Mid ch.



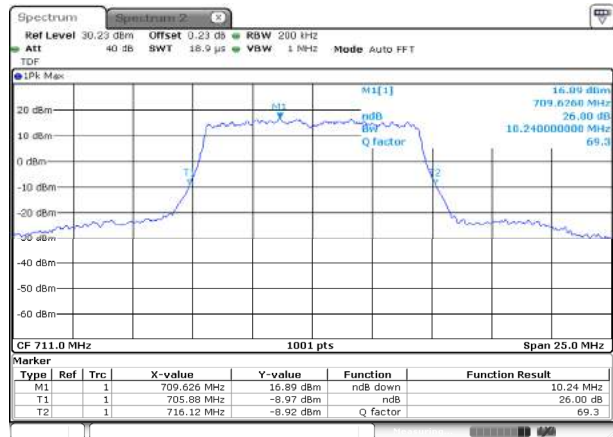
Date: 1.NOV.2019 10:47:47

## 10M BW / QPSK / High ch.



Date: 1.NOV.2019 10:50:24

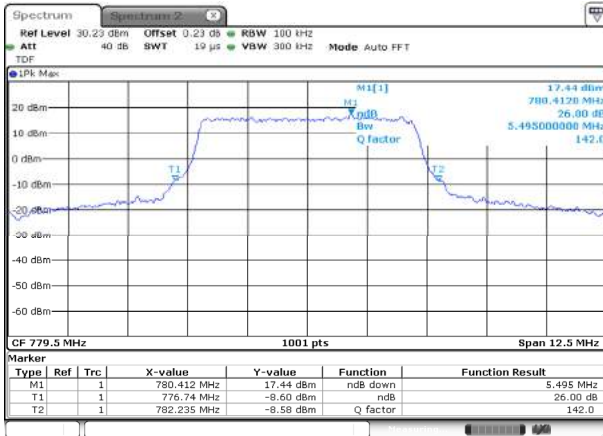
## 10M BW / 16QAM / High ch.



Date: 1.NOV.2019 10:53:19

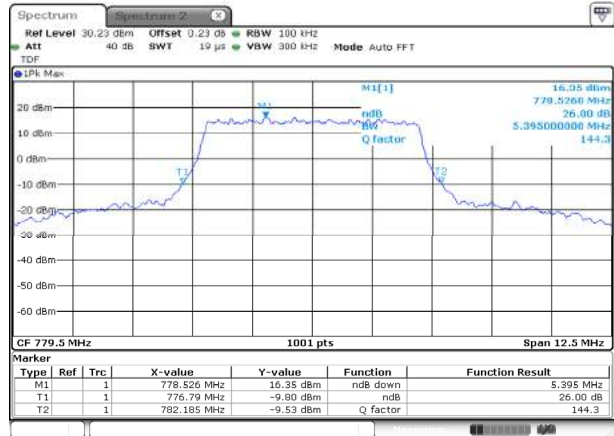
## Test mode: LTE Band 13

### 5M BW / QPSK / Low ch.



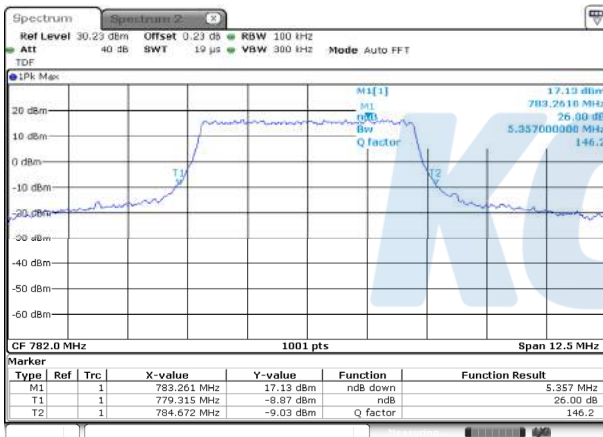
Date: 3.NOV.2019 13:13:41

### 5M BW / 16QAM / Low ch.



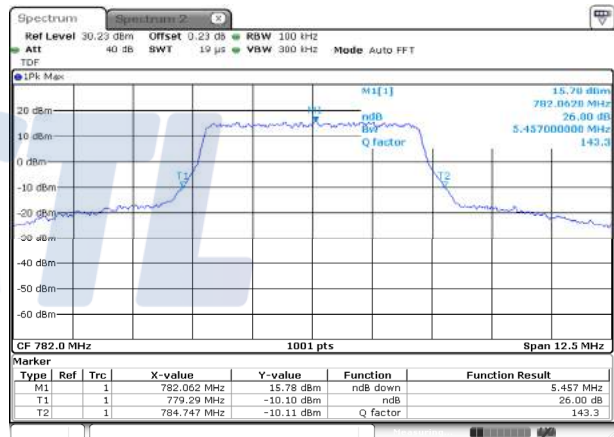
Date: 3.NOV.2019 13:15:18

### 5M BW / QPSK / Mid ch.



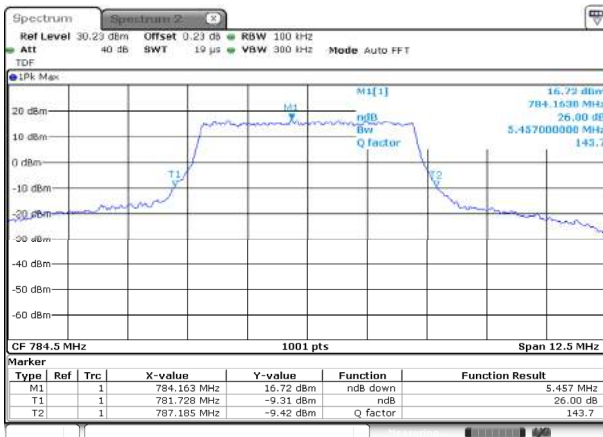
Date: 3.NOV.2019 13:17:22

### 5M BW / 16QAM / Mid ch.



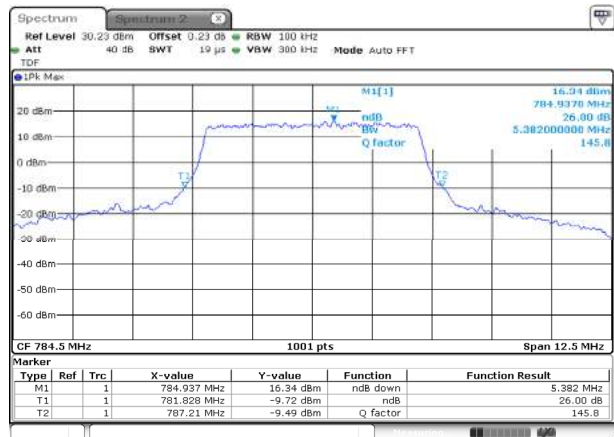
Date: 3.NOV.2019 13:19:22

### 5M BW / QPSK / High ch.



Date: 3.NOV.2019 13:21:17

### 5M BW / 16QAM / High ch.



Date: 3.NOV.2019 13:23:22

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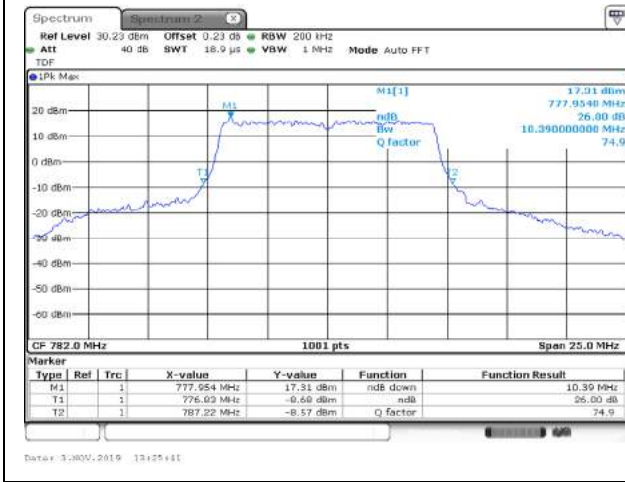
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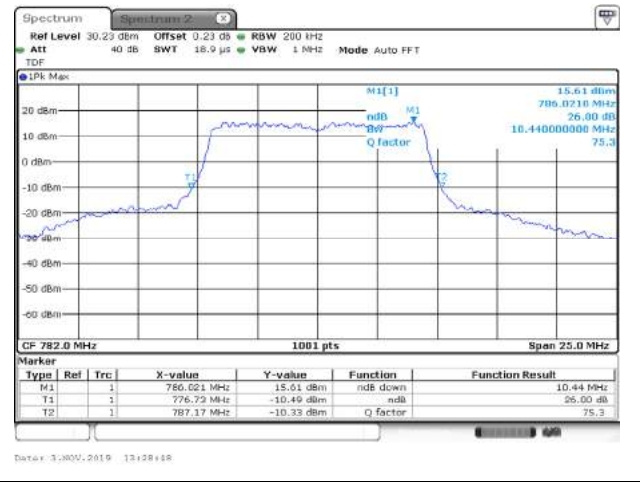
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## 10M BW / QPSK / Mid ch.

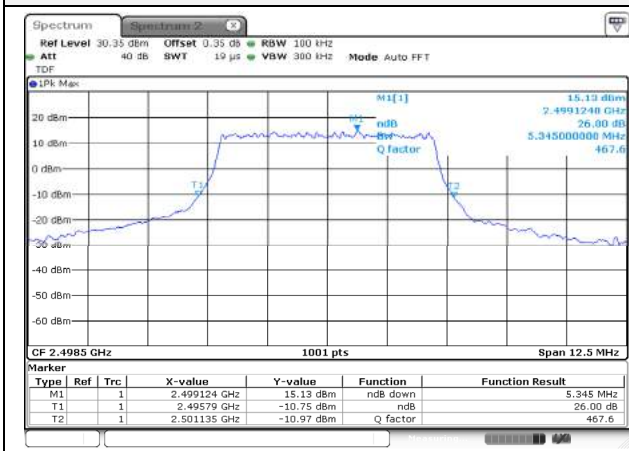


## 10M BW / 16QAM / Mid ch.



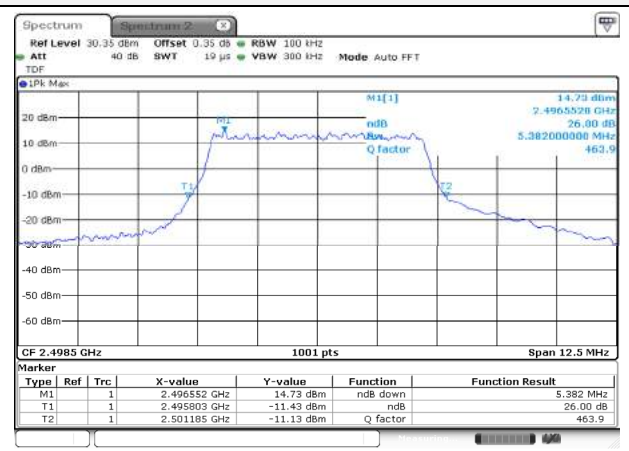
**Test mode: LTE Band 41**

**5M BW / QPSK / Low ch.**



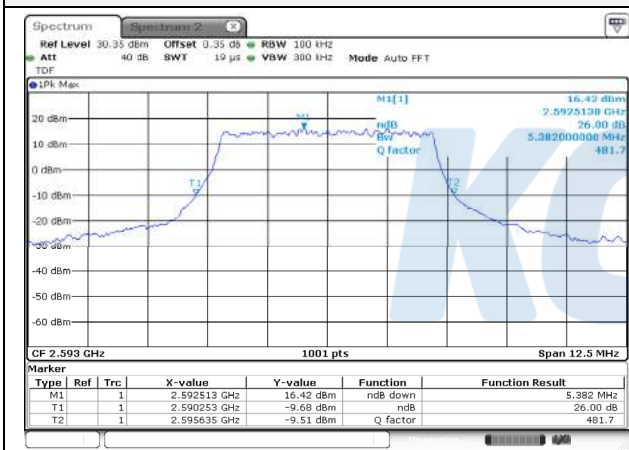
Date: 3.NOV.2019 15:26:07

**5M BW / 16QAM / Low ch.**



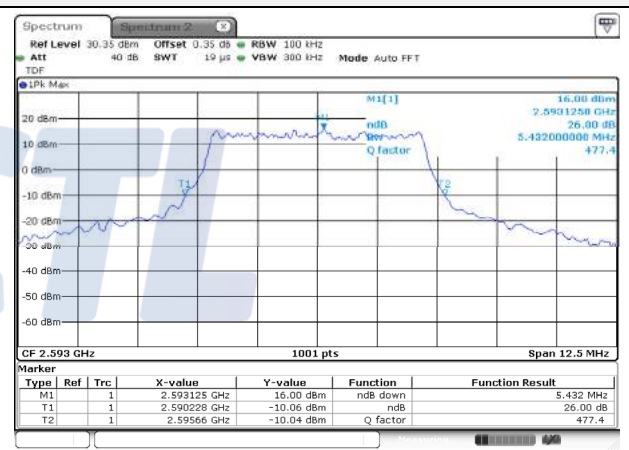
Date: 3.NOV.2019 15:29:00

**5M BW / QPSK / Mid ch.**



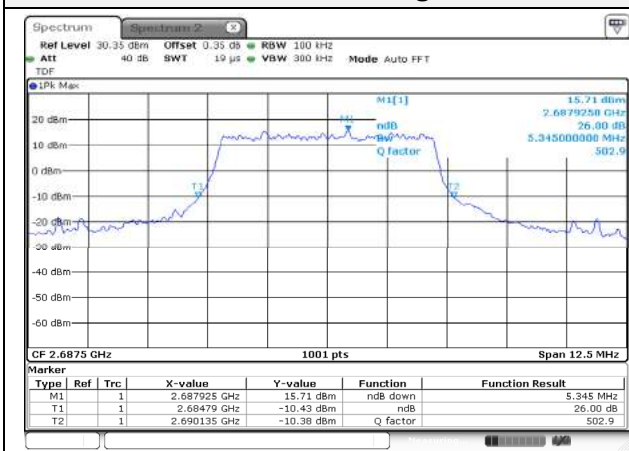
Date: 3.NOV.2019 15:31:52

**5M BW / 16QAM / Mid ch.**



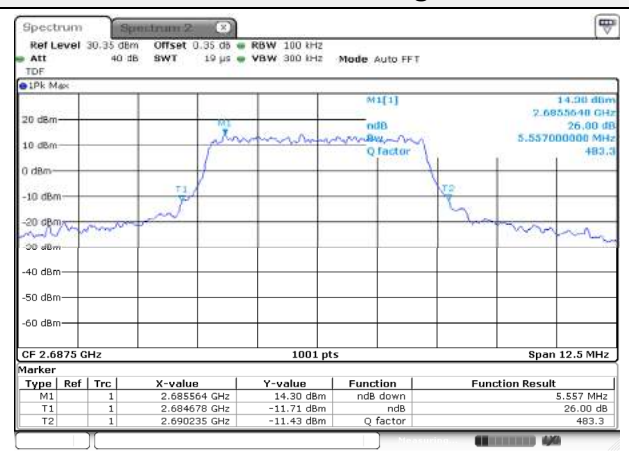
Date: 3.NOV.2019 15:34:44

**5M BW / QPSK / High ch.**



Date: 3.NOV.2019 15:38:15

**5M BW / 16QAM / High ch.**



Date: 3.NOV.2019 15:41:30

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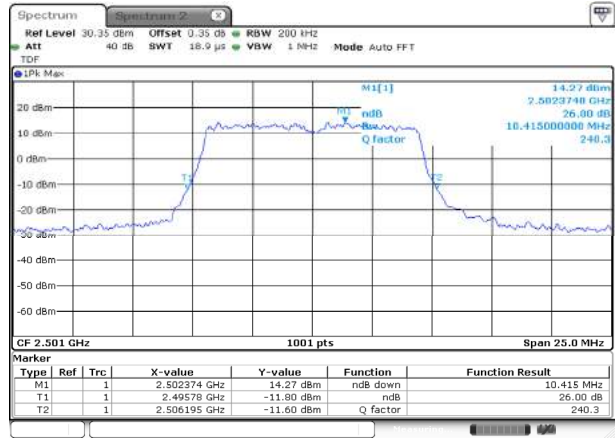


## 10M BW / QPSK / Low ch.



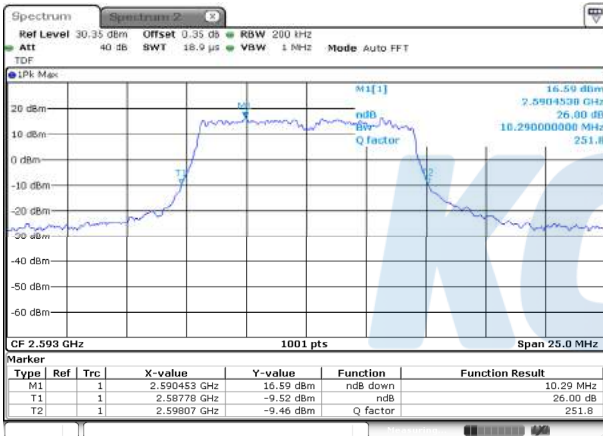
Date: 3.NOV.2019 15:44:40

## 10M BW / 16QAM / Low ch.



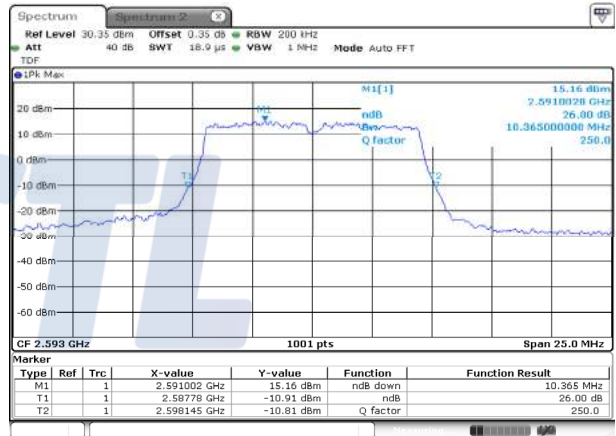
Date: 3.NOV.2019 15:50:41

## 10M BW / QPSK / Mid ch.



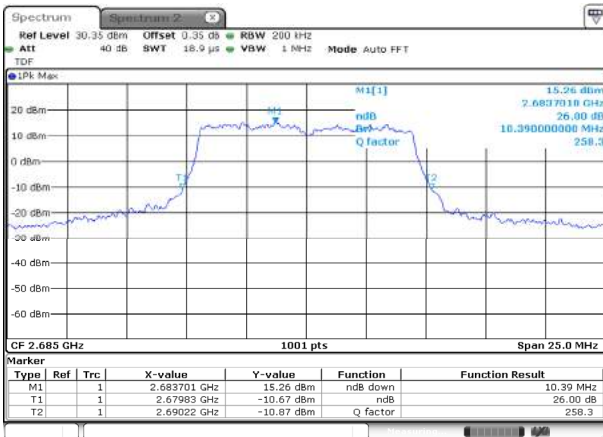
Date: 3.NOV.2019 15:54:06

## 10M BW / 16QAM / Mid ch.



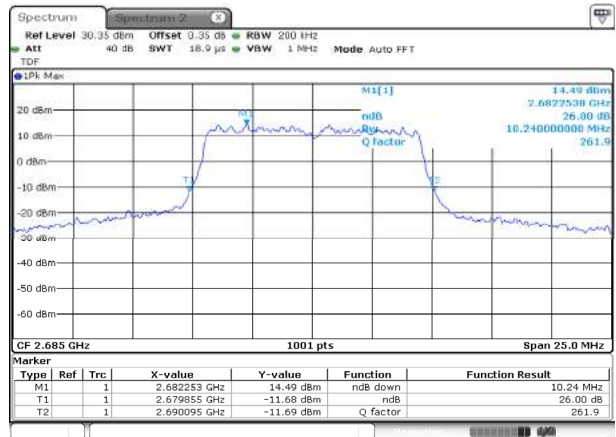
Date: 3.NOV.2019 15:57:19

## 10M BW / QPSK / High ch.



Date: 3.NOV.2019 16:00:19

## 10M BW / 16QAM / High ch.



Date: 3.NOV.2019 16:02:39

# KCTL Inc.

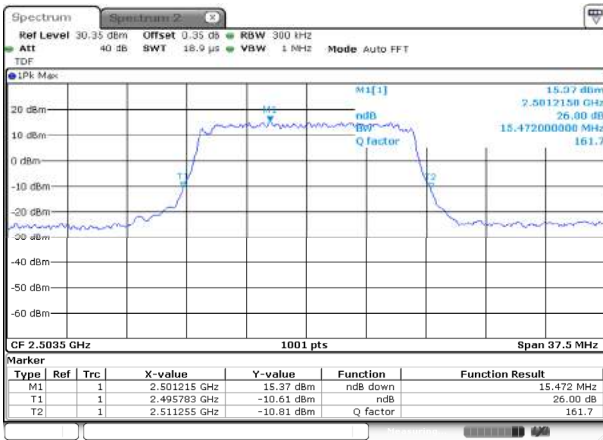
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Suwon-si, Gyeonggi-do, 16677, Korea  
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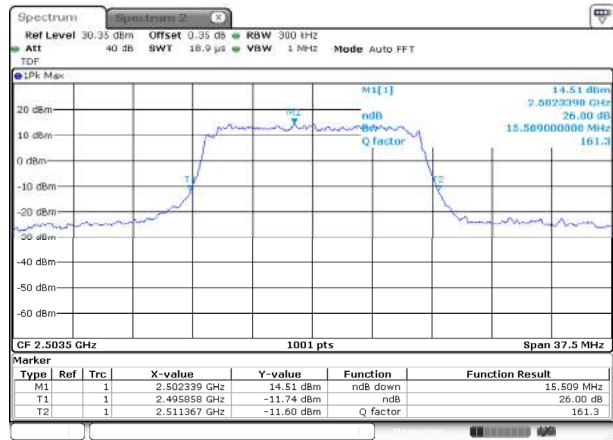


## 15M BW / QPSK / Low ch.



Date: 3.NOV.2019 16:06:28

## 15M BW / 16QAM / Low ch.



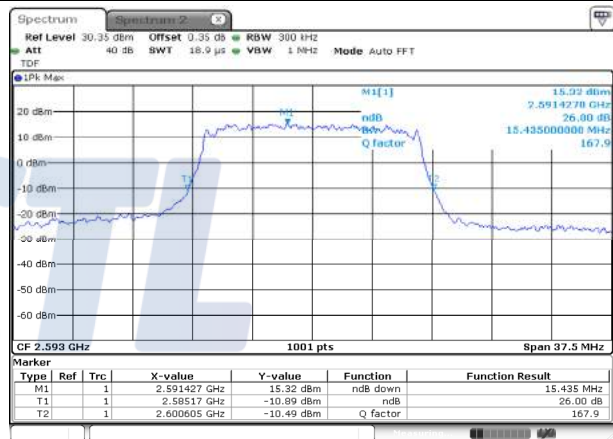
Date: 3.NOV.2019 16:09:44

## 15M BW / QPSK / Mid ch.



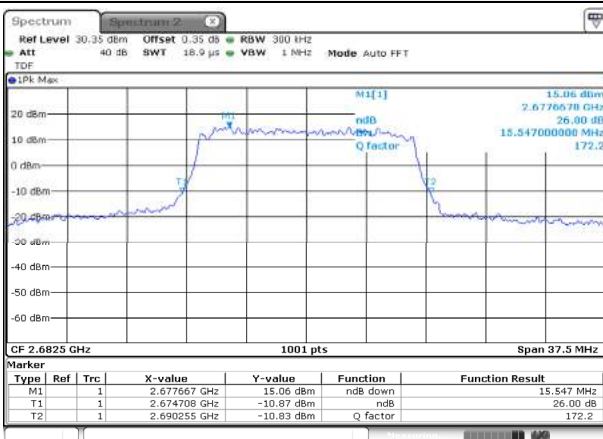
Date: 3.NOV.2019 16:12:58

## 15M BW / 16QAM / Mid ch.



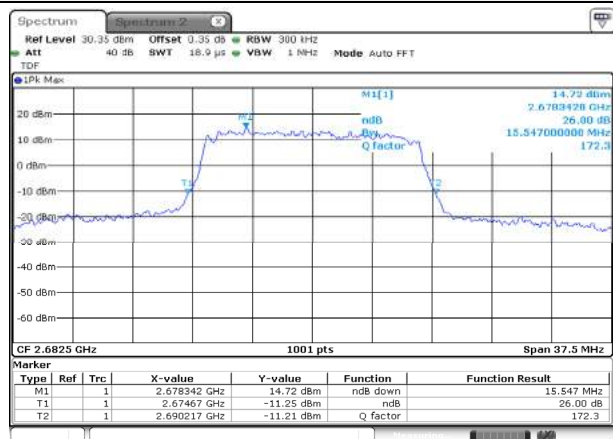
Date: 3.NOV.2019 16:15:59

## 15M BW / QPSK / High ch.



Date: 3.NOV.2019 16:19:30

## 15M BW / 16QAM / High ch.



Date: 3.NOV.2019 16:22:30

# KCTL Inc.

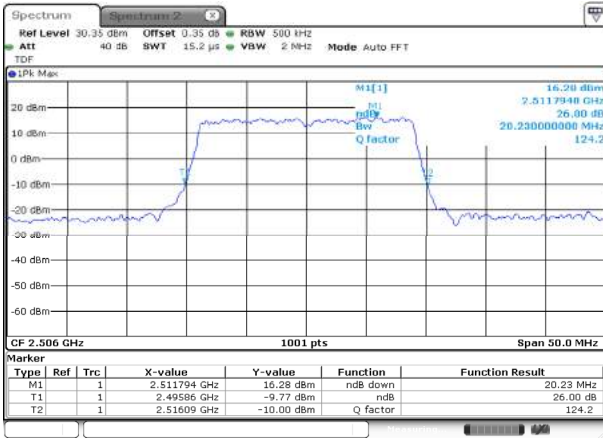
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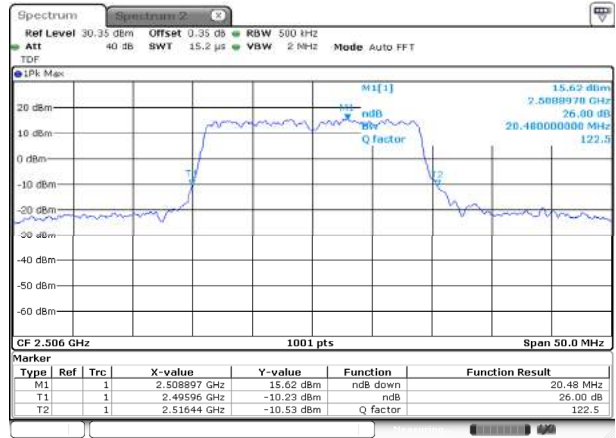


## 20M BW / QPSK / Low ch.



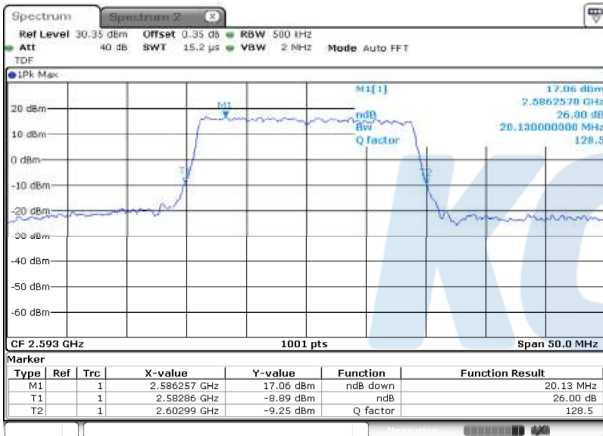
Date: 3.NOV.2019 16:29:22

## 20M BW / 16QAM / Low ch.



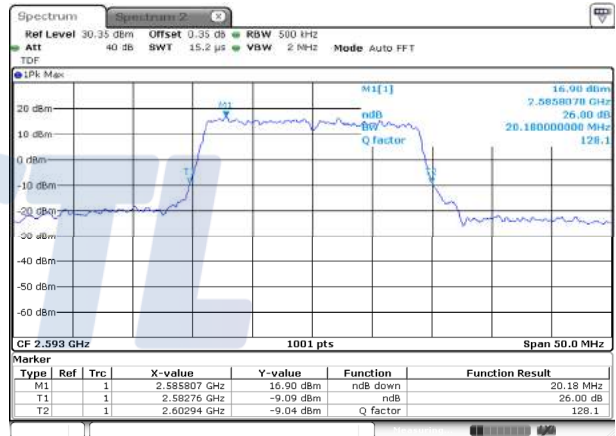
Date: 3.NOV.2019 16:33:02

## 20M BW / QPSK / Mid ch.



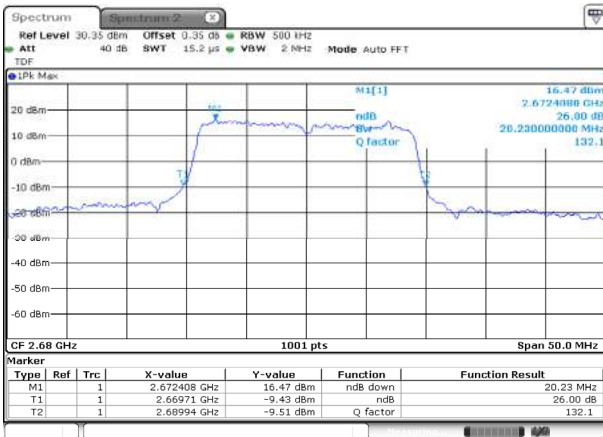
Date: 3.NOV.2019 16:38:39

## 20M BW / 16QAM / Mid ch.



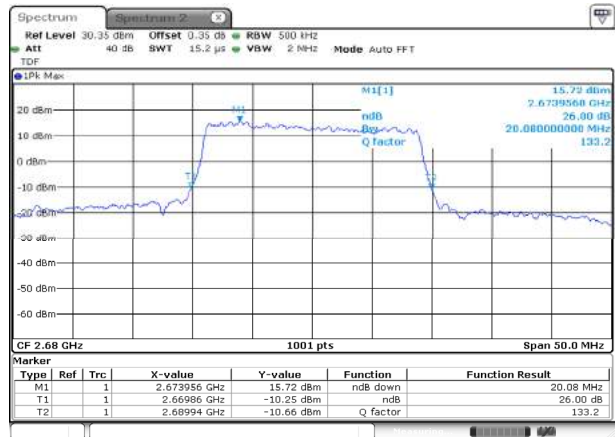
Date: 3.NOV.2019 16:41:27

## 20M BW / QPSK / High ch.



Date: 3.NOV.2019 16:44:32

## 20M BW / 16QAM / High ch.

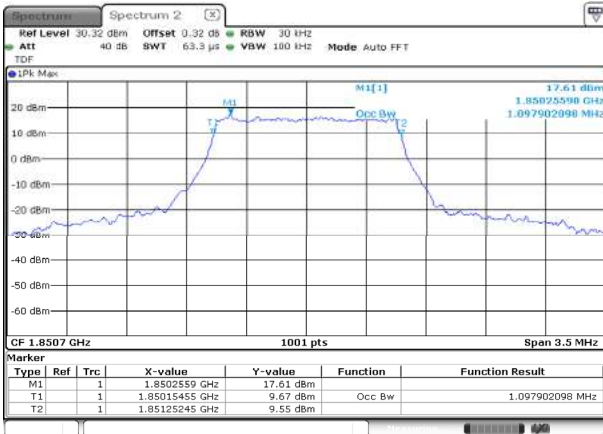


Date: 3.NOV.2019 16:48:05

**99% Occupied Bandwidth**

**Test mode: LTE Band 2**

**1.4M BW / QPSK / Low ch.**



Date: 30.OCT.2019 19:21:56

**1.4M BW / 16QAM / Low ch.**



Date: 30.OCT.2019 19:24:17

**1.4M BW / QPSK / Mid ch.**



Date: 30.OCT.2019 19:25:51

**1.4M BW / 16QAM / Mid ch.**



Date: 30.OCT.2019 19:27:00

**1.4M BW / QPSK / High ch.**



Date: 30.OCT.2019 19:28:36

**1.4M BW / 16QAM / High ch.**



Date: 30.OCT.2019 19:30:02

# KCTL Inc.

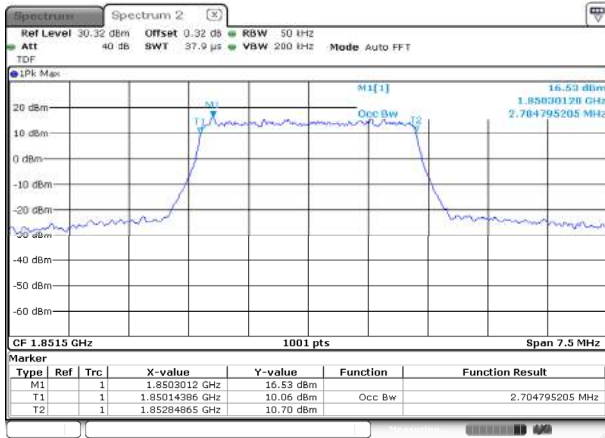
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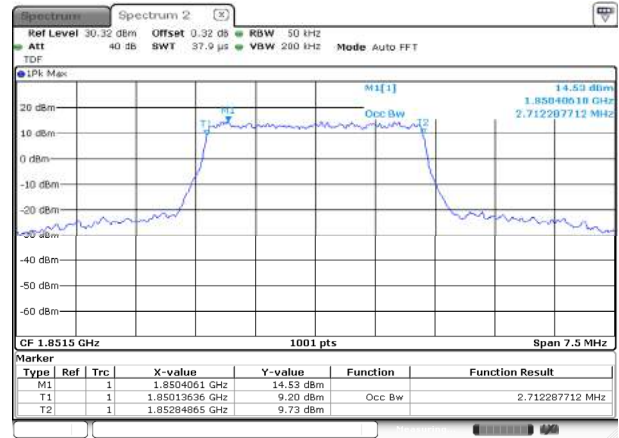
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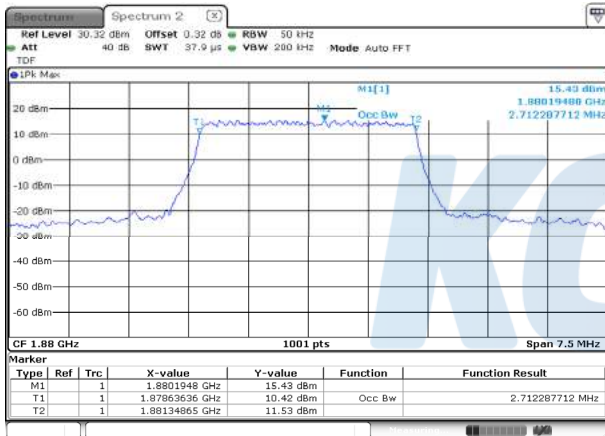
## 3M BW / QPSK / Low ch.



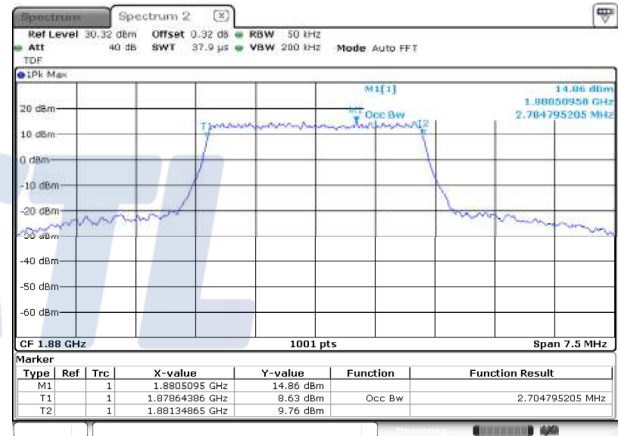
## 3M BW / 16QAM / Low ch.



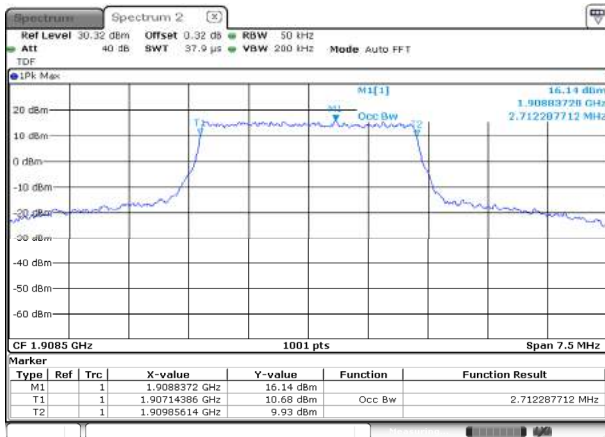
## 3M BW / QPSK / Mid ch.



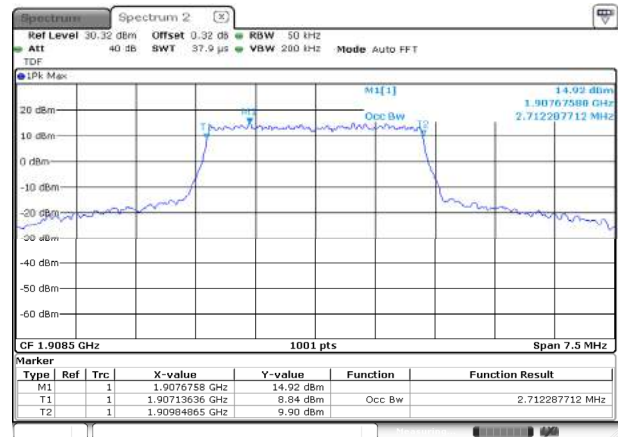
## 3M BW / 16QAM / Mid ch.



## 3M BW / QPSK / High ch.



## 3M BW / 16QAM / High ch.



# KCTL Inc.

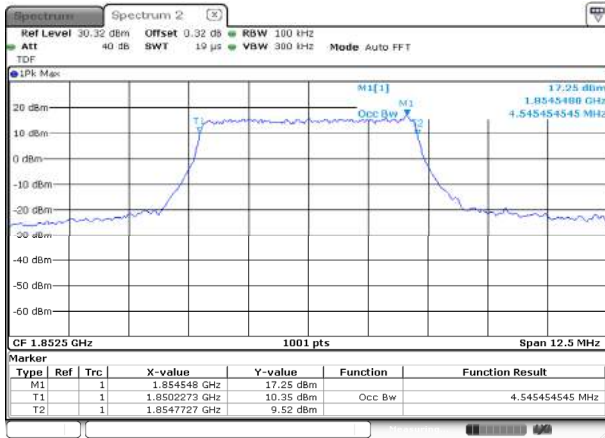
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Suwon-si, Gyeonggi-do, 16677, Korea  
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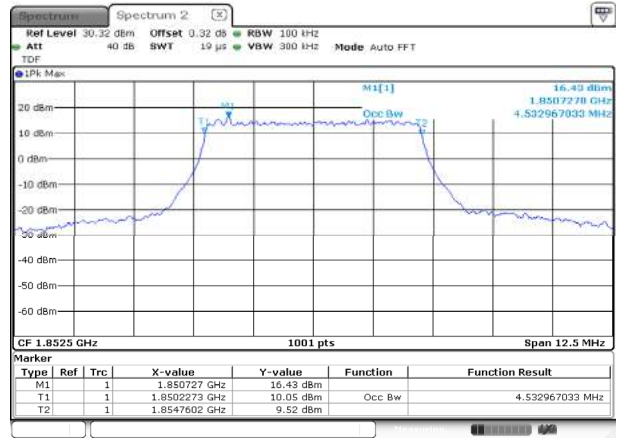


## 5M BW / QPSK / Low ch.



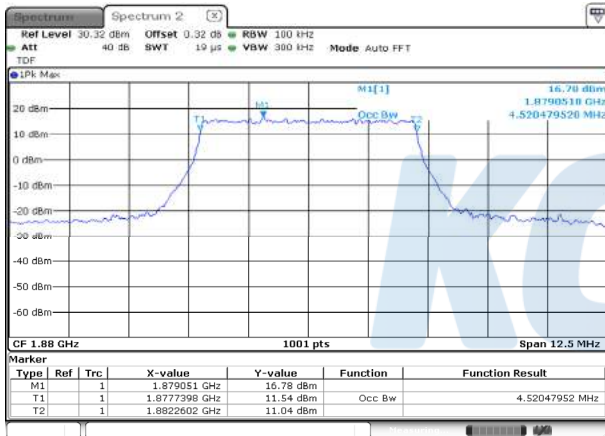
Date: 30.OCT.2019 19:57:55

## 5M BW / 16QAM / Low ch.



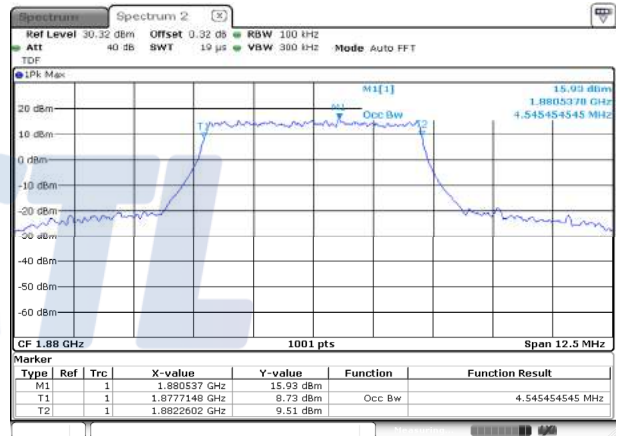
Date: 30.OCT.2019 20:00:50

## 5M BW / QPSK / Mid ch.



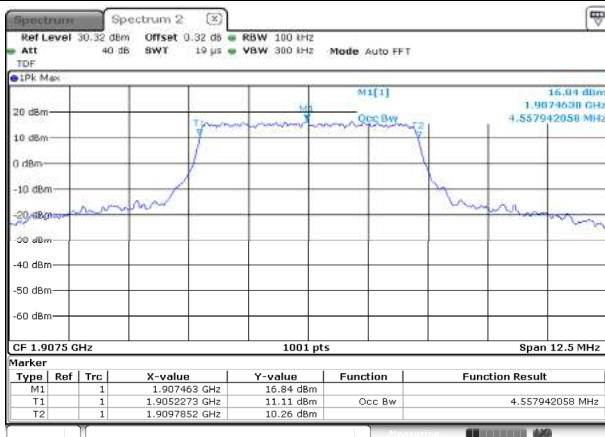
Date: 30.OCT.2019 20:04:16

## 5M BW / 16QAM / Mid ch.



Date: 30.OCT.2019 20:06:00

## 5M BW / QPSK / High ch.



Date: 30.OCT.2019 20:09:33

## 5M BW / 16QAM / High ch.



Date: 30.OCT.2019 20:10:51

# KCTL Inc.

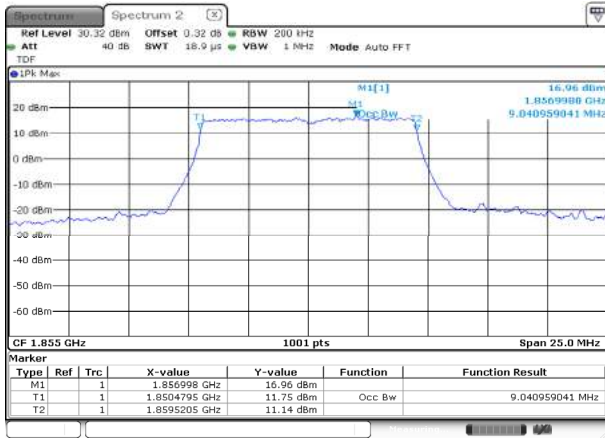
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Suwon-si, Gyeonggi-do, 16677, Korea  
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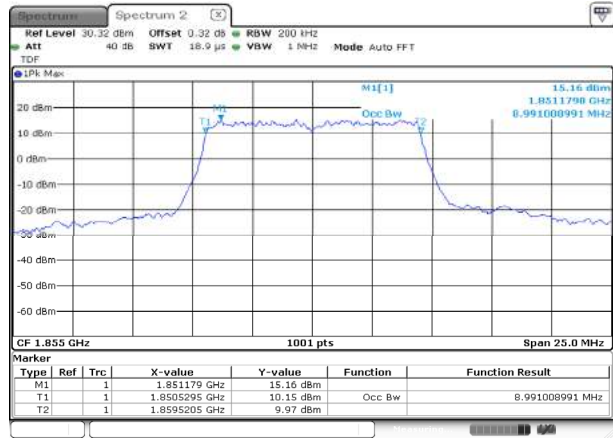


## 10M BW / QPSK / Low ch.



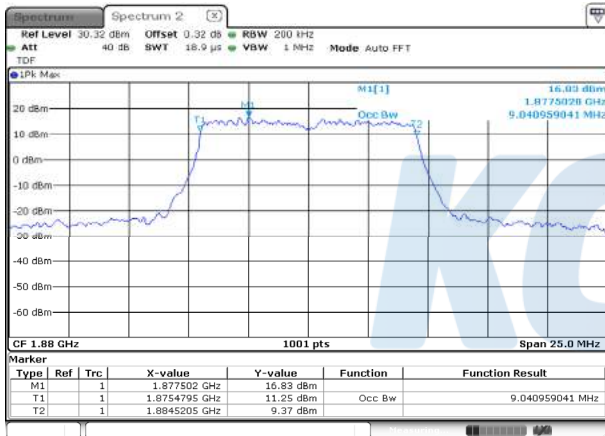
Date: 30.OCT.2019 21:23:35

## 10M BW / 16QAM / Low ch.



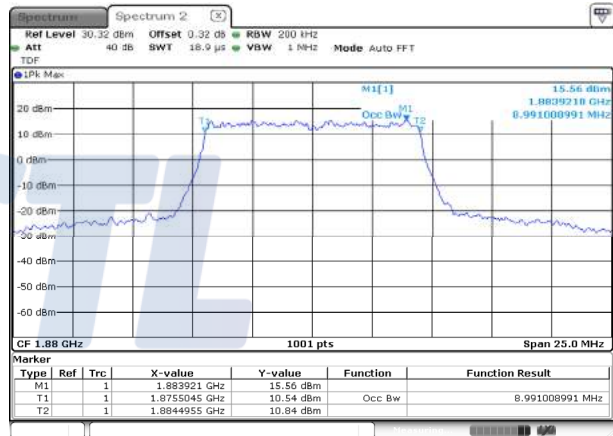
Date: 30.OCT.2019 21:34:31

## 10M BW / QPSK / Mid ch.



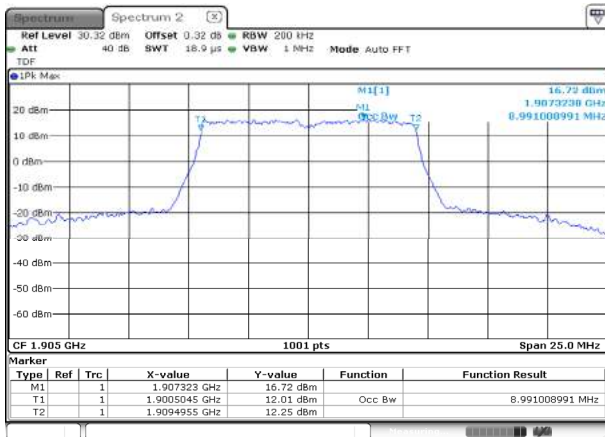
Date: 30.OCT.2019 21:36:35

## 10M BW / 16QAM / Mid ch.



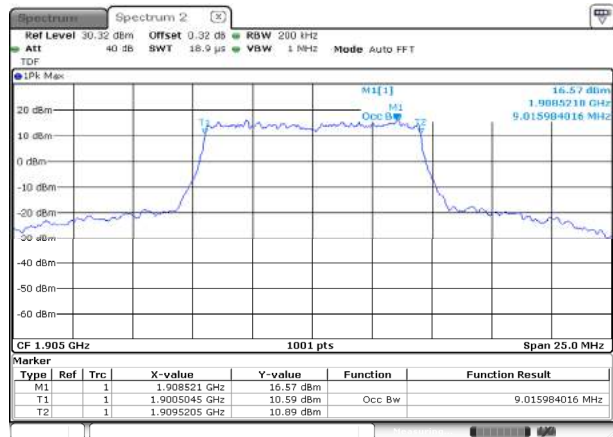
Date: 30.OCT.2019 21:37:46

## 10M BW / QPSK / High ch.



Date: 30.OCT.2019 21:40:09

## 10M BW / 16QAM / High ch.



Date: 30.OCT.2019 21:41:41

# KCTL Inc.

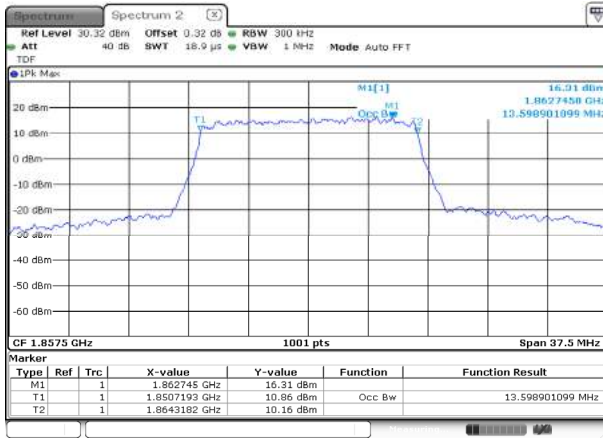
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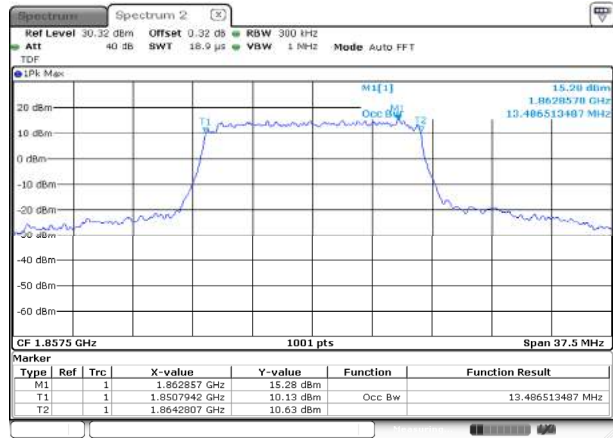


## 15M BW / QPSK / Low ch.



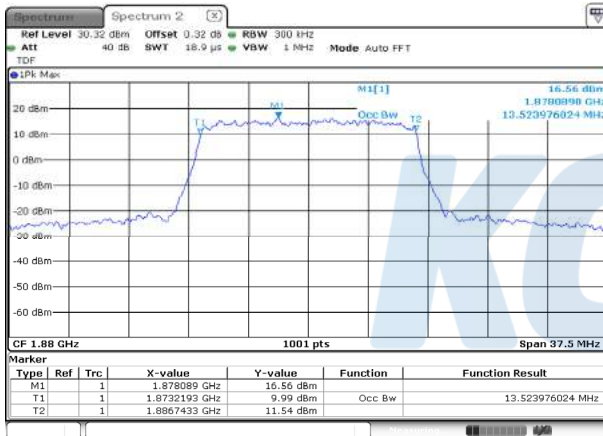
Date: 30.OCT.2019 21:43:39

## 15M BW / 16QAM / Low ch.



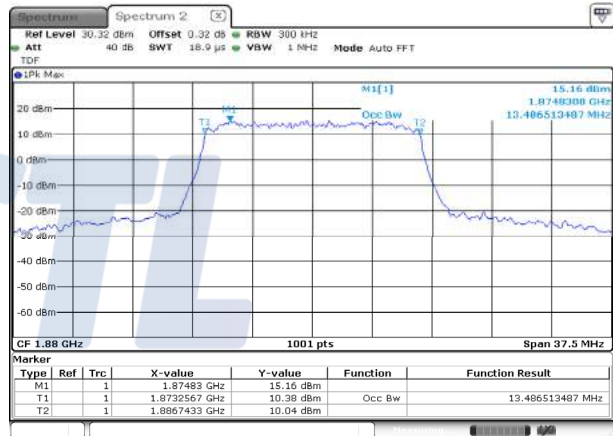
Date: 30.OCT.2019 21:45:06

## 15M BW / QPSK / Mid ch.



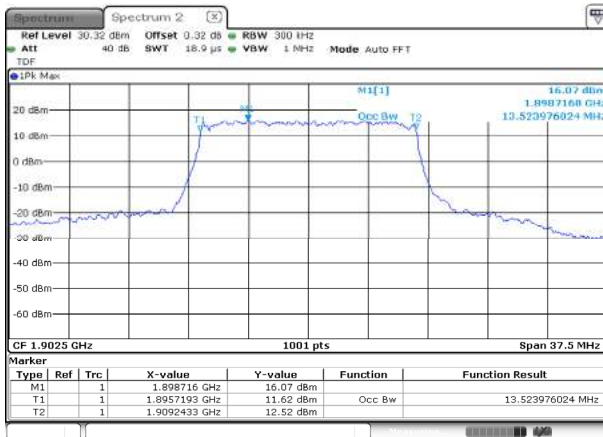
Date: 30.OCT.2019 21:47:00

## 15M BW / 16QAM / Mid ch.



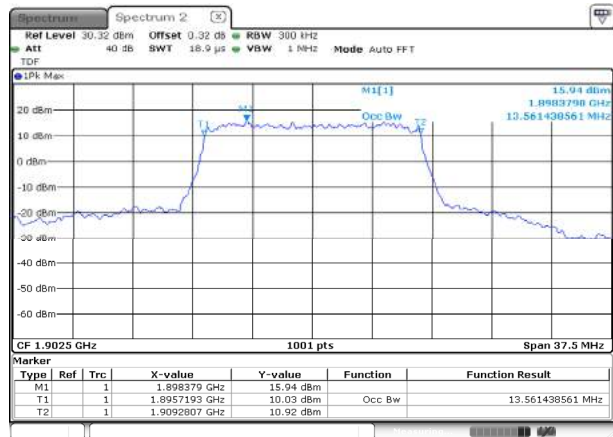
Date: 30.OCT.2019 21:48:27

## 15M BW / QPSK / High ch.



Date: 30.OCT.2019 21:50:06

## 15M BW / 16QAM / High ch.



Date: 30.OCT.2019 21:51:24

# KCTL Inc.

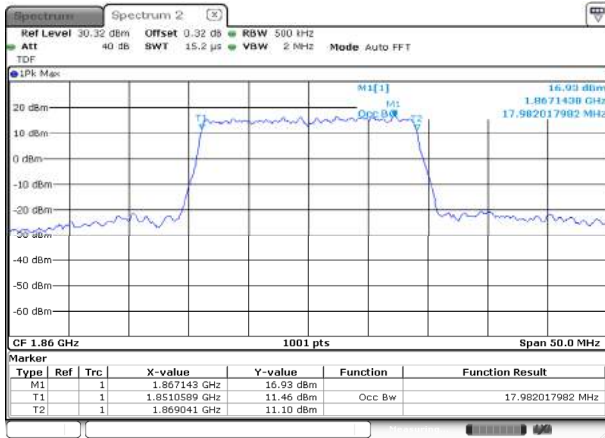
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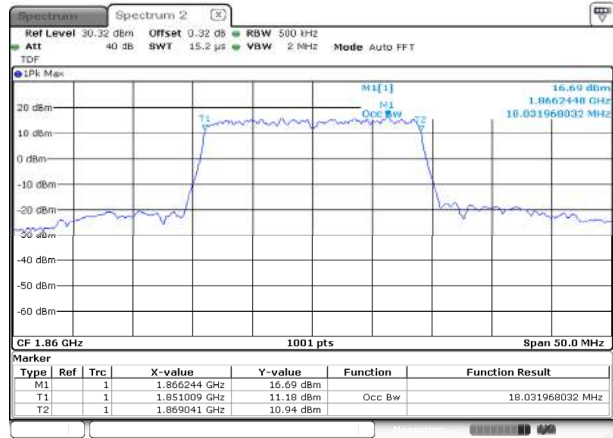


## 20M BW / QPSK / Low ch.



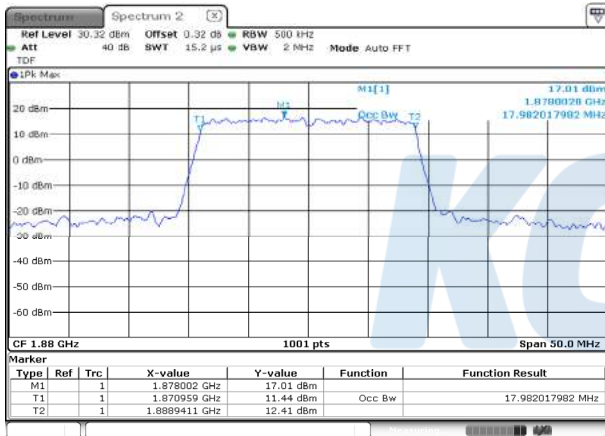
Date: 30.OCT.2019 21:52:51

## 20M BW / 16QAM / Low ch.



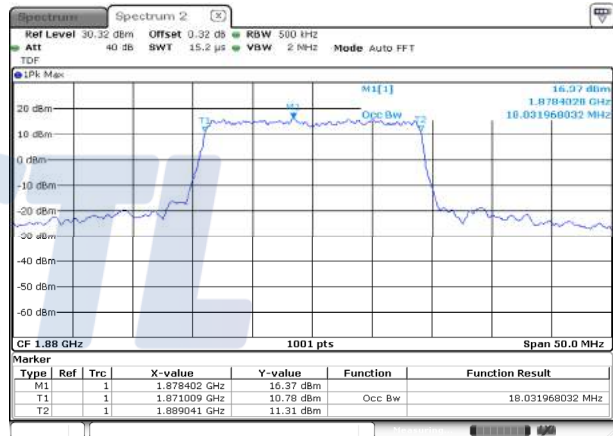
Date: 30.OCT.2019 21:54:00

## 20M BW / QPSK / Mid ch.



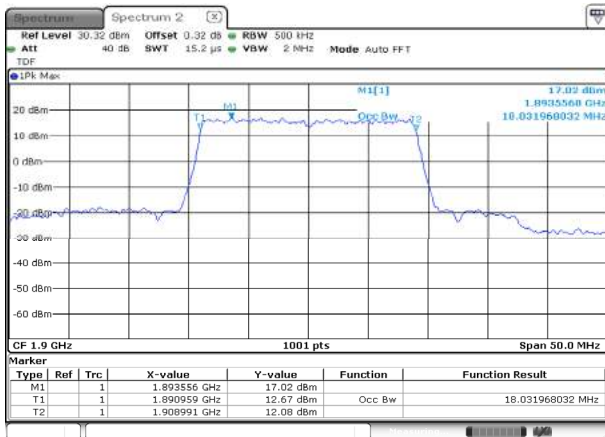
Date: 30.OCT.2019 21:56:15

## 20M BW / 16QAM / Mid ch.



Date: 30.OCT.2019 21:57:24

## 20M BW / QPSK / High ch.



Date: 30.OCT.2019 21:59:10

## 20M BW / 16QAM / High ch.



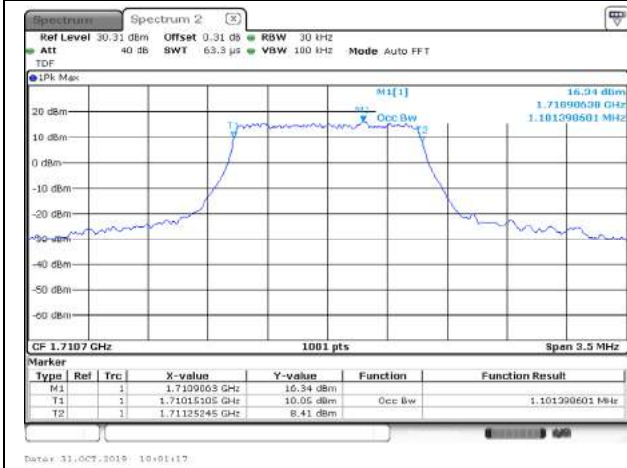
Date: 30.OCT.2019 22:01:04

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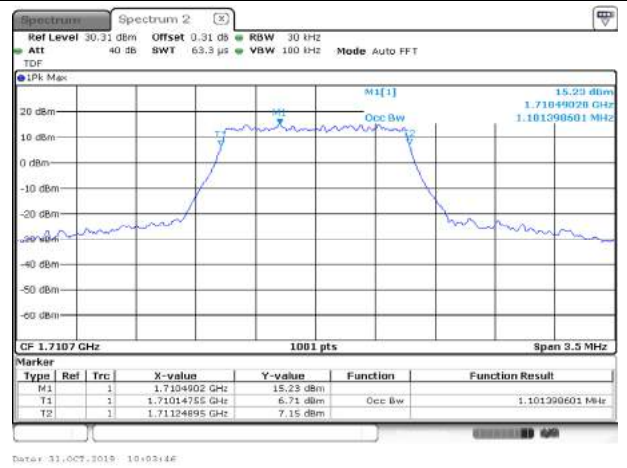
KCTL-TIR001-003/2

**Test mode: LTE Band 4/66**

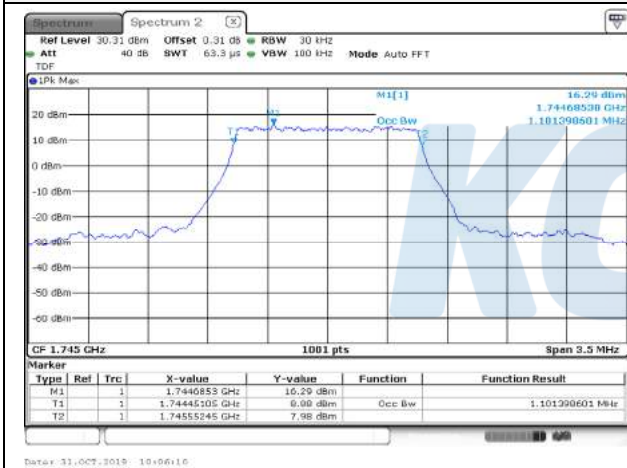
**1.4M BW / QPSK / Low ch.**



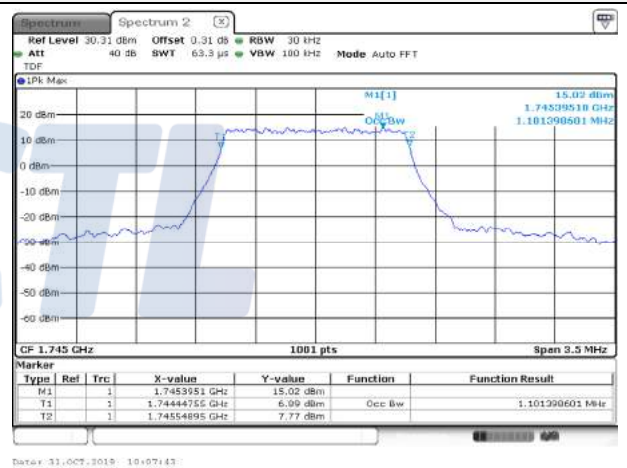
**1.4M BW / 16QAM / Low ch.**



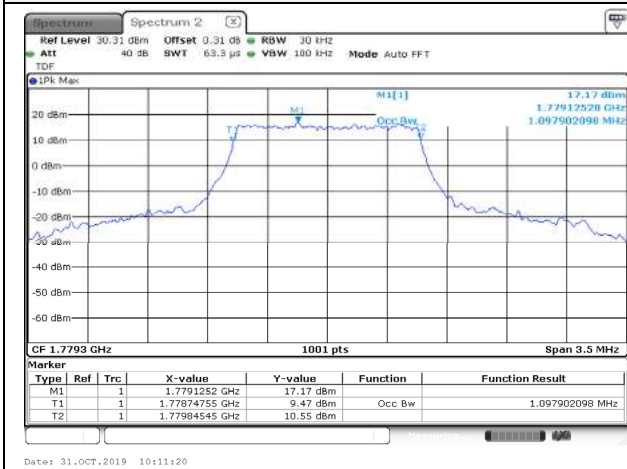
**1.4M BW / QPSK / Mid ch.**



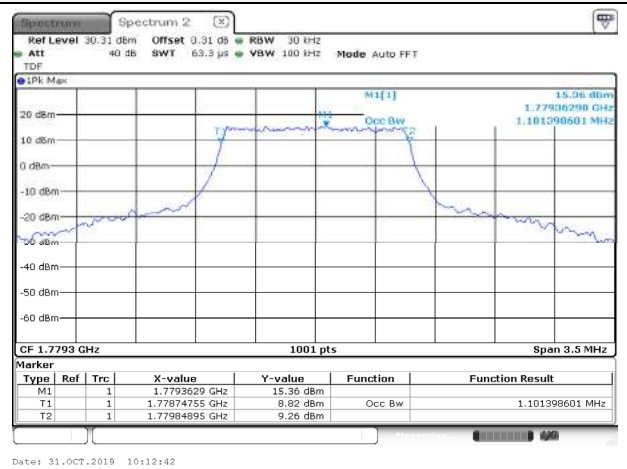
**1.4M BW / 16QAM / Mid ch.**



**1.4M BW / QPSK / High ch.**



**1.4M BW / 16QAM / High ch.**



# KCTL Inc.

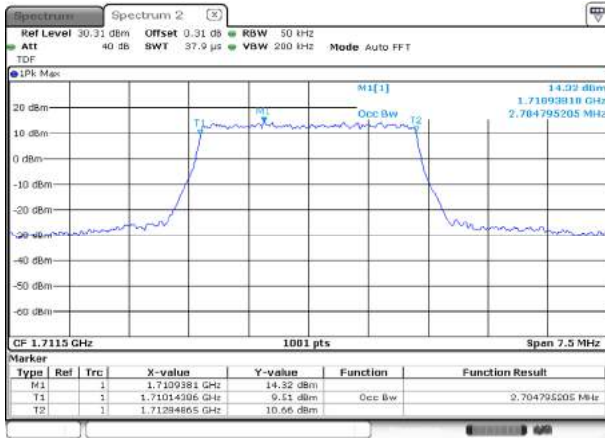
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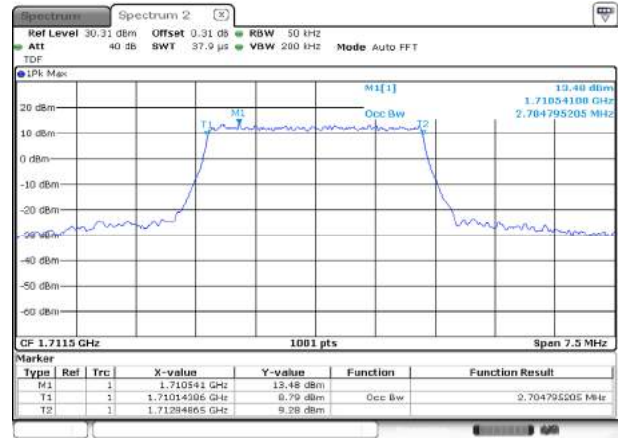


## 3M BW / QPSK / Low ch.



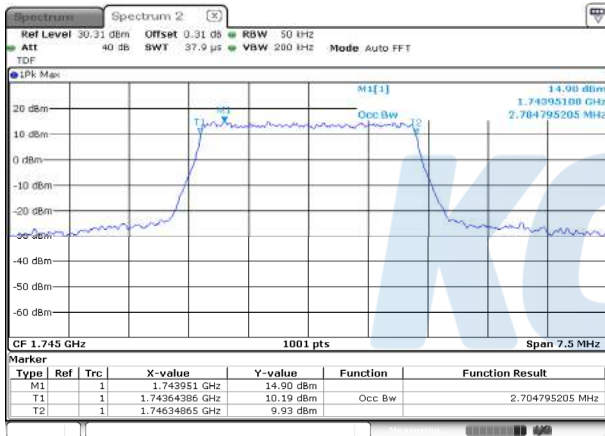
Date: 31.OCT.2019 10:24:21

## 3M BW / 16QAM / Low ch.



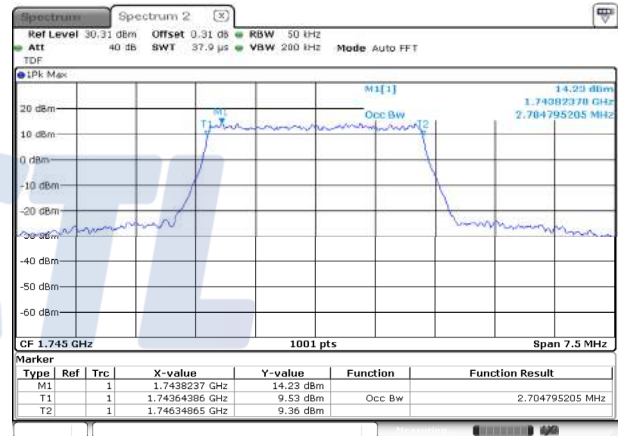
Date: 31.OCT.2019 10:26:11

## 3M BW / QPSK / Mid ch.



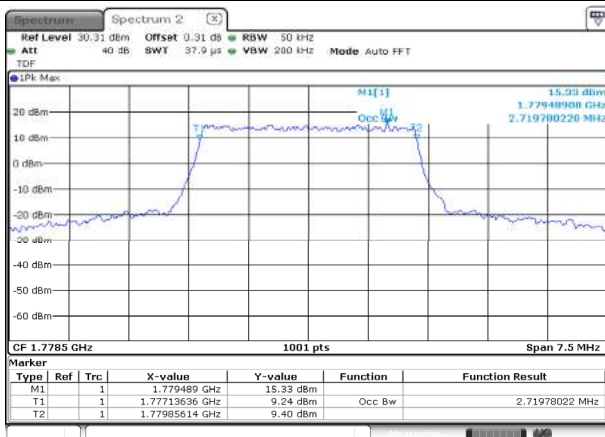
Date: 31.OCT.2019 10:49:11

## 3M BW / 16QAM / Mid ch.



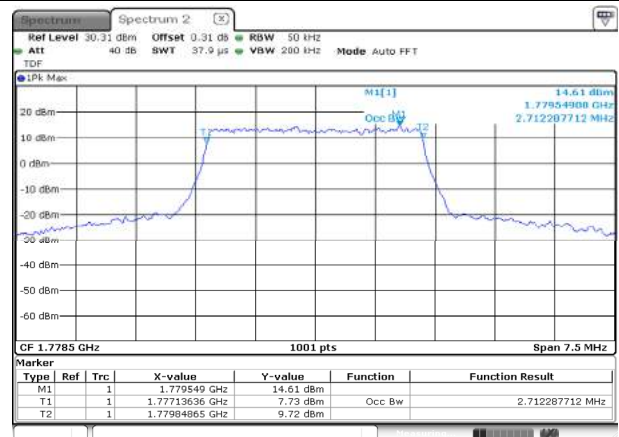
Date: 31.OCT.2019 10:50:39

## 3M BW / QPSK / High ch.



Date: 31.OCT.2019 10:53:08

## 3M BW / 16QAM / High ch.



Date: 31.OCT.2019 12:21:33

# KCTL Inc.

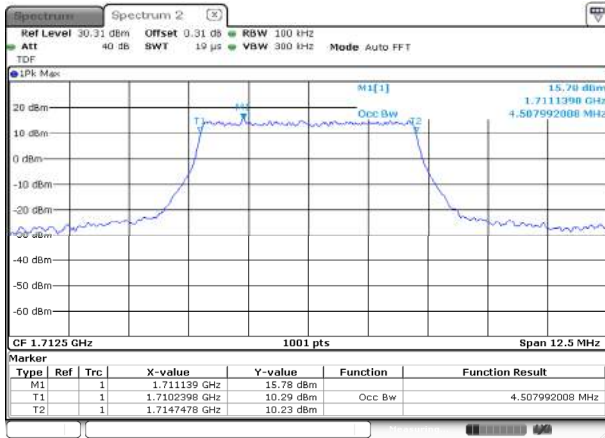
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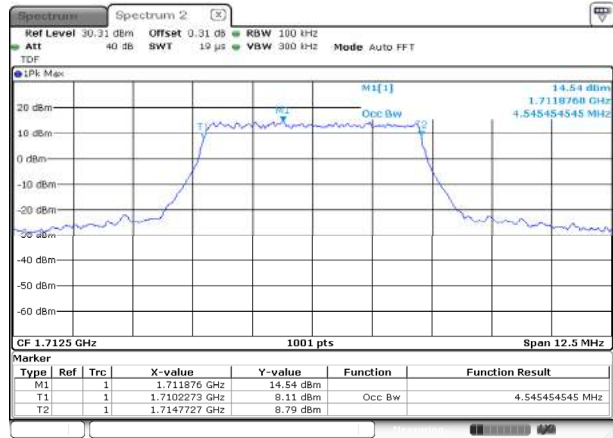


## 5M BW / QPSK / Low ch.



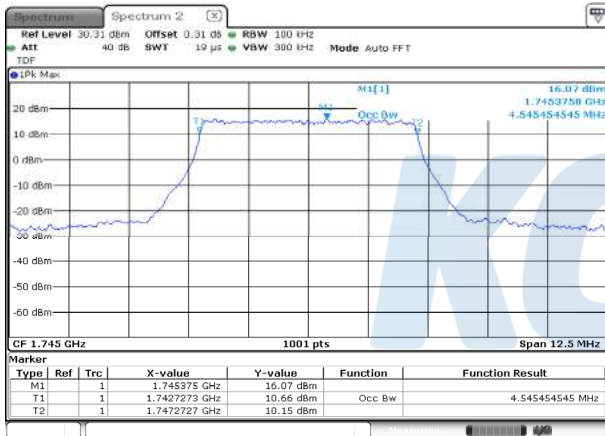
Date: 31.OCT.2019 12:24:38

## 5M BW / 16QAM / Low ch.



Date: 31.OCT.2019 12:30:25

## 5M BW / QPSK / Mid ch.



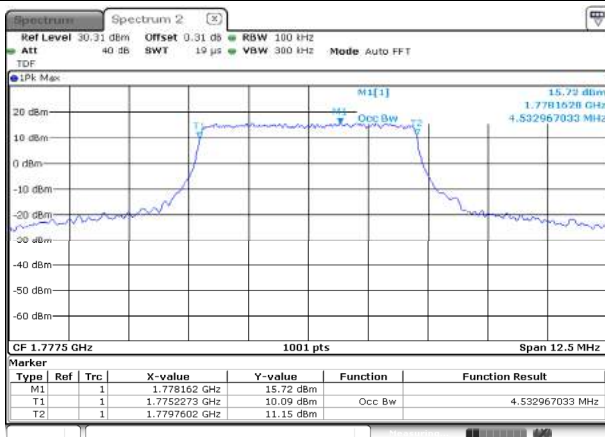
Date: 31.OCT.2019 12:34:18

## 5M BW / 16QAM / Mid ch.



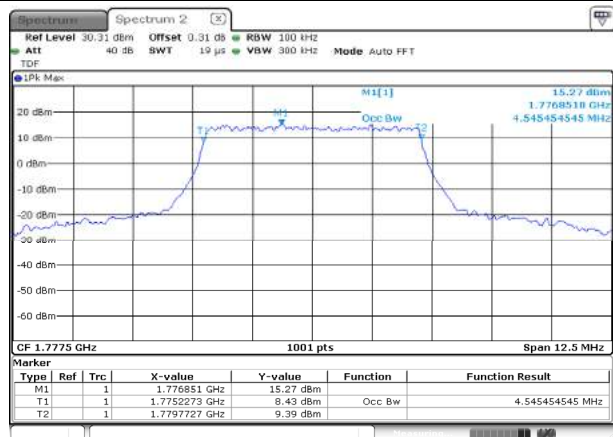
Date: 31.OCT.2019 12:38:35

## 5M BW / QPSK / High ch.



Date: 31.OCT.2019 12:40:12

## 5M BW / 16QAM / High ch.



Date: 31.OCT.2019 12:41:33

# KCTL Inc.

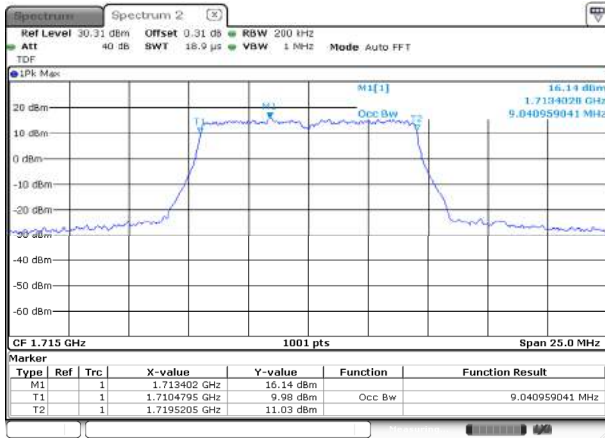
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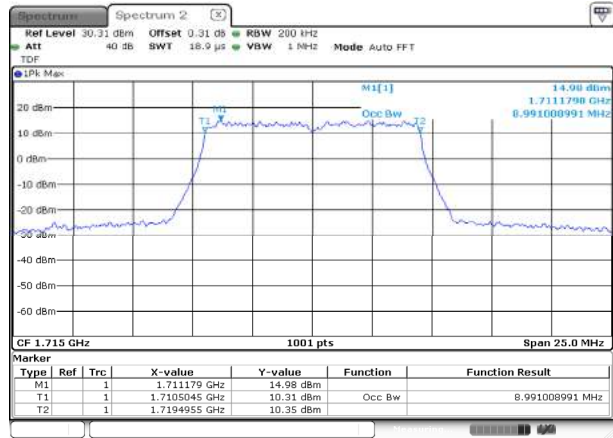


## 10M BW / QPSK / Low ch.



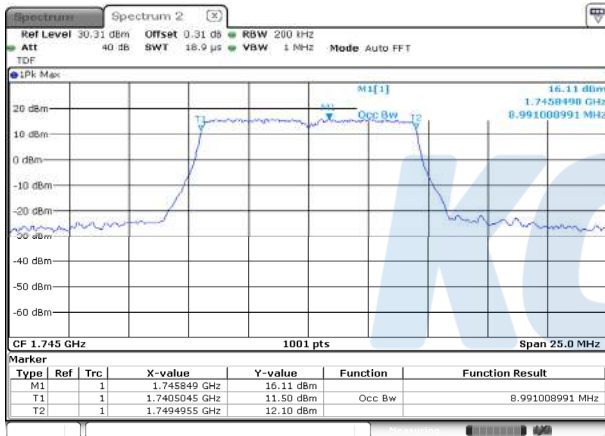
Date: 31.OCT.2019 16:21:14

## 10M BW / 16QAM / Low ch.



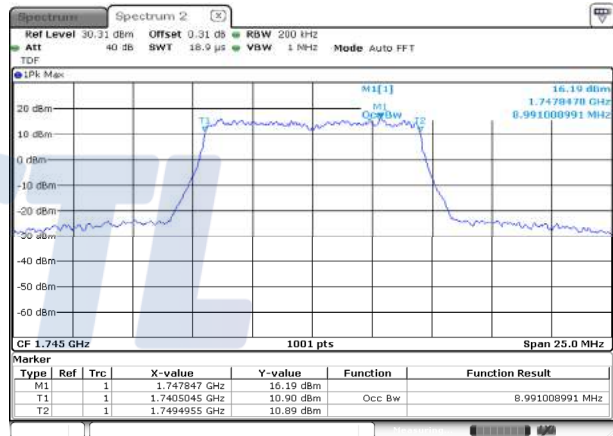
Date: 31.OCT.2019 16:23:36

## 10M BW / QPSK / Mid ch.



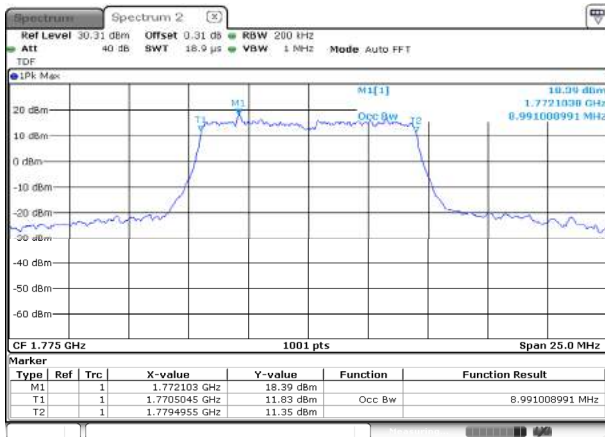
Date: 31.OCT.2019 16:26:46

## 10M BW / 16QAM / Mid ch.



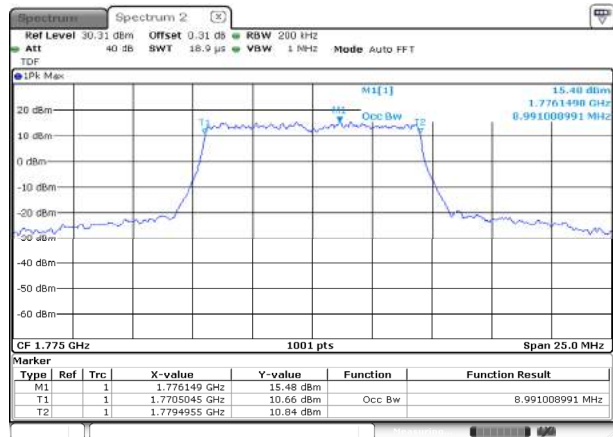
Date: 31.OCT.2019 16:29:28

## 10M BW / QPSK / High ch.



Date: 31.OCT.2019 16:31:40

## 10M BW / 16QAM / High ch.



Date: 31.OCT.2019 16:33:54

# KCTL Inc.

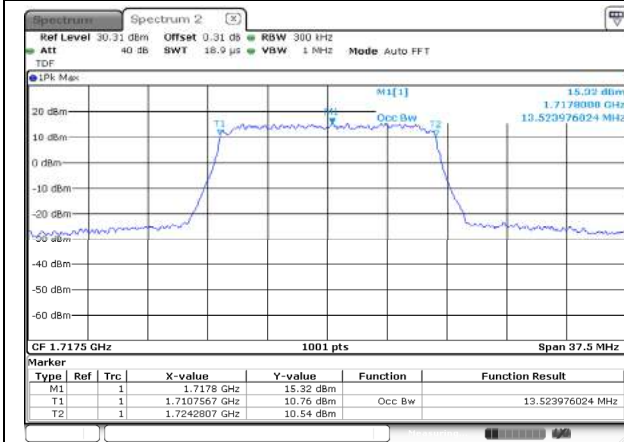
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Suwon-si, Gyeonggi-do, 16677, Korea  
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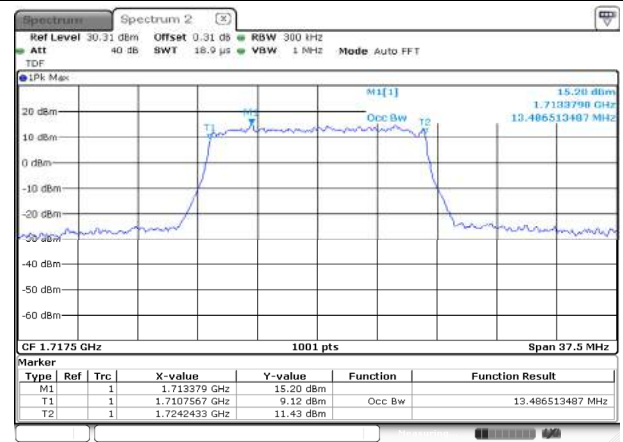


## 15M BW / QPSK / Low ch.



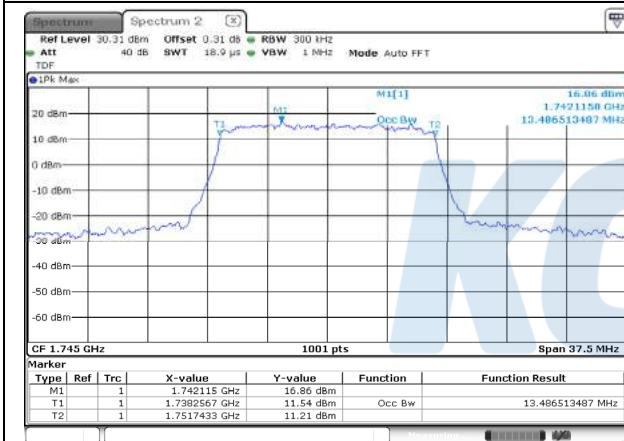
Date: 31.OCT.2019 16:39:44

## 15M BW / 16QAM / Low ch.



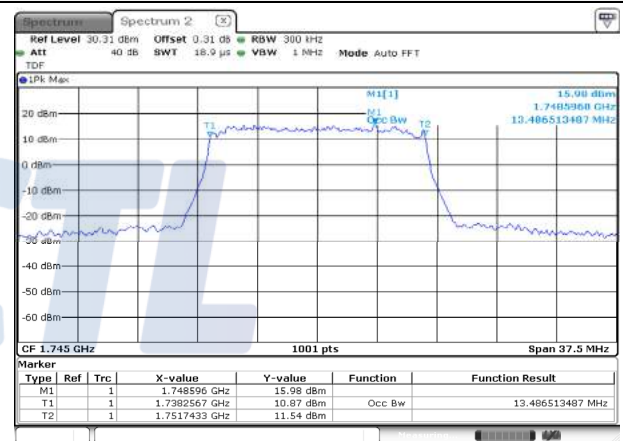
Date: 31.OCT.2019 16:42:11

## 15M BW / QPSK / Mid ch.



Date: 31.OCT.2019 16:44:15

## 15M BW / 16QAM / Mid ch.



Date: 31.OCT.2019 16:45:45

## 15M BW / QPSK / High ch.



Date: 31.OCT.2019 16:48:29

## 15M BW / 16QAM / High ch.



Date: 31.OCT.2019 16:49:41

# KCTL Inc.

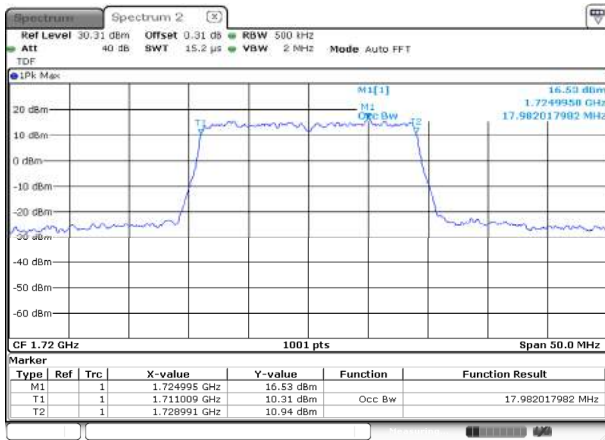
65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
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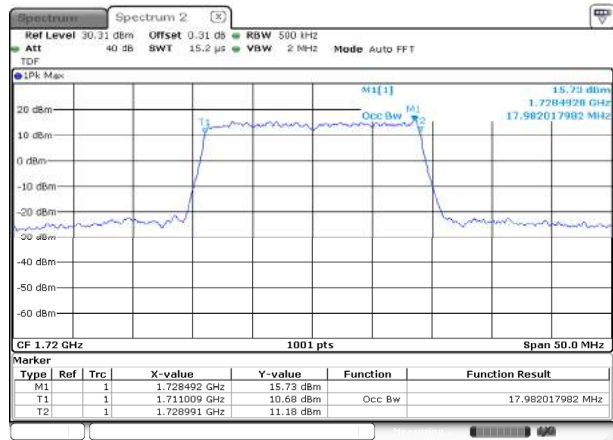
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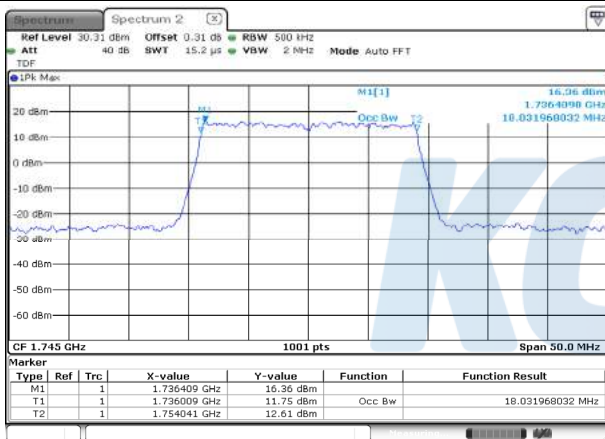
## 20M BW / QPSK / Low ch.



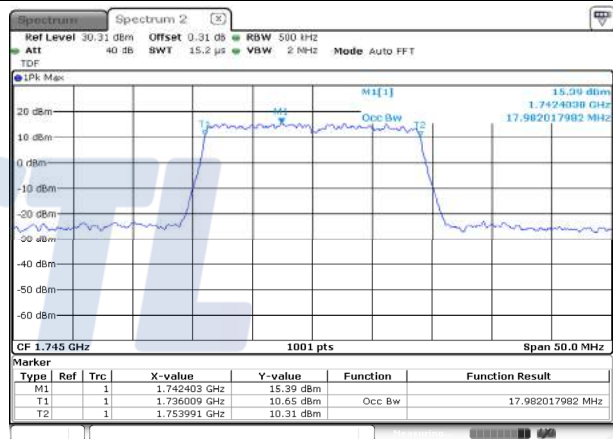
## 20M BW / 16QAM / Low ch.



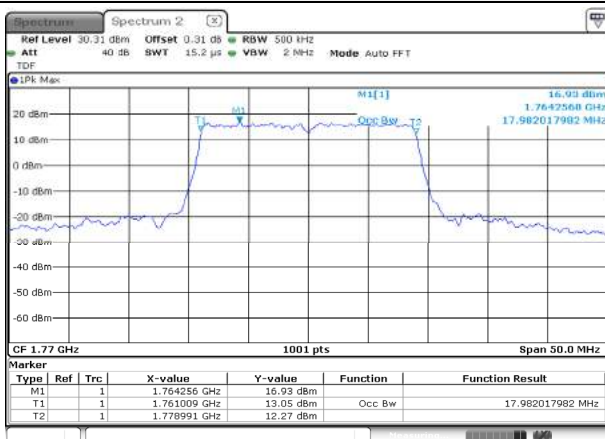
## 20M BW / QPSK / Mid ch.



## 20M BW / 16QAM / Mid ch.



## 20M BW / QPSK / High ch.

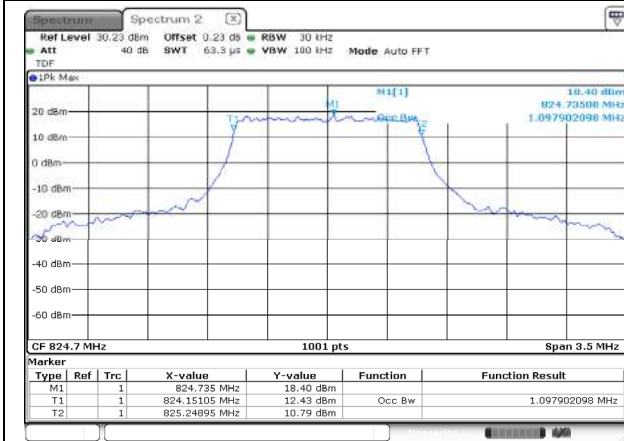


## 20M BW / 16QAM / High ch.



**Test mode: LTE Band 5**

**1.4M BW / QPSK / Low ch.**



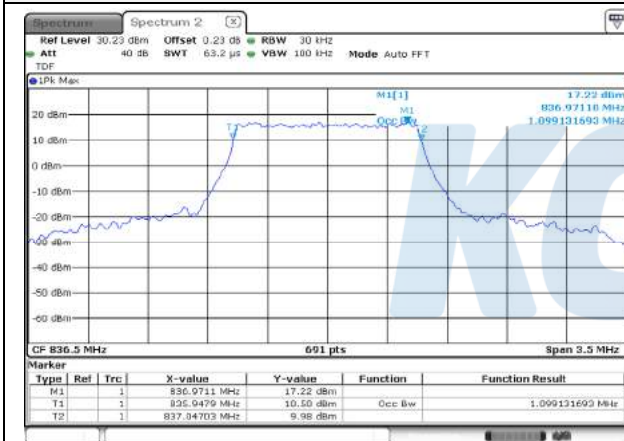
Date: 31.OCT.2019 18:40:22

**1.4M BW / 16QAM / Low ch.**



Date: 31.OCT.2019 18:42:05

**1.4M BW / QPSK / Mid ch.**



Date: 15.NOV.2019 21:09:20

**1.4M BW / 16QAM / Mid ch.**



Date: 15.NOV.2019 21:13:34

**1.4M BW / QPSK / High ch.**



Date: 15.NOV.2019 21:17:48

**1.4M BW / 16QAM / High ch.**



Date: 15.NOV.2019 21:19:46

# KCTL Inc.

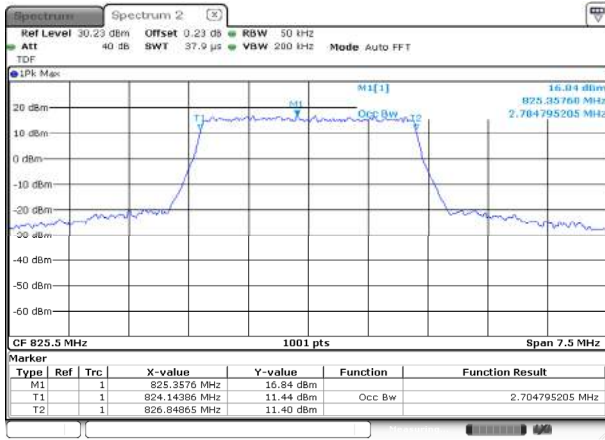
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Suwon-si, Gyeonggi-do, 16677, Korea  
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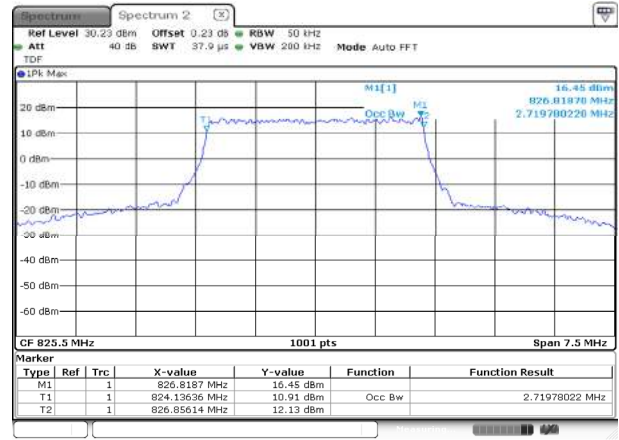
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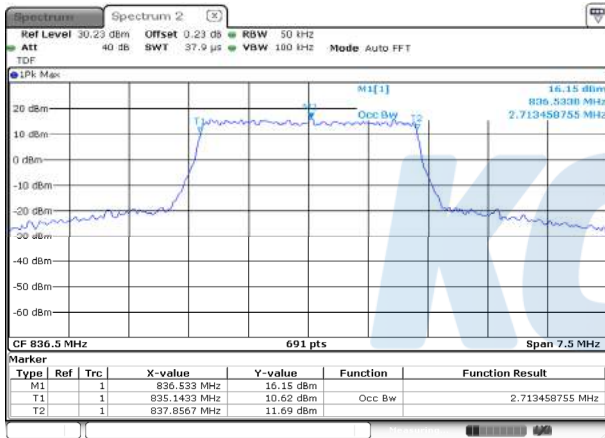
## 3M BW / QPSK / Low ch.



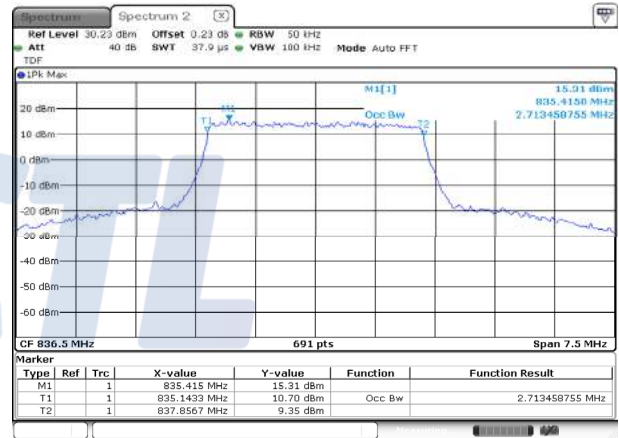
## 3M BW / 16QAM / Low ch.



## 3M BW / QPSK / Mid ch.



## 3M BW / 16QAM / Mid ch.



## 3M BW / QPSK / High ch.



## 3M BW / 16QAM / High ch.



# KCTL Inc.

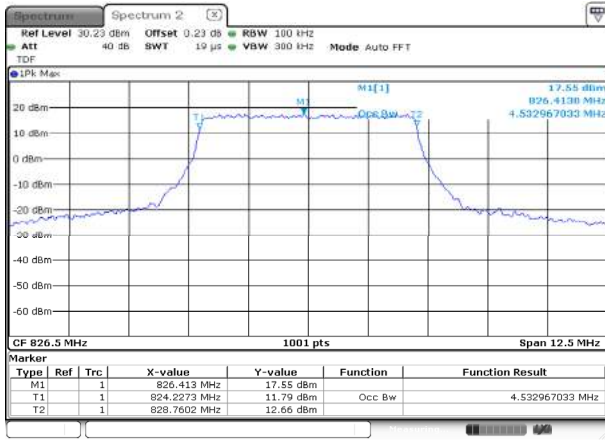
65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
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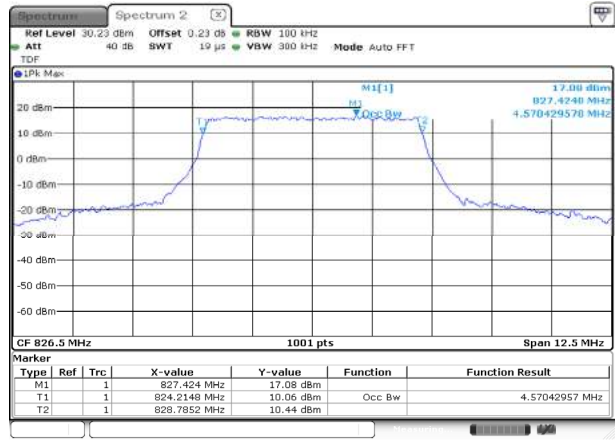
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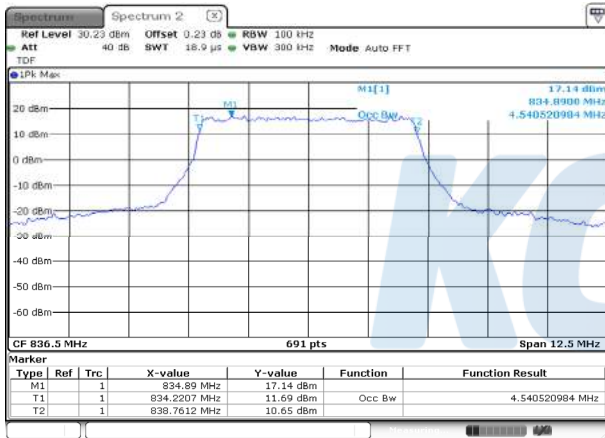
## 5M BW / QPSK / Low ch.



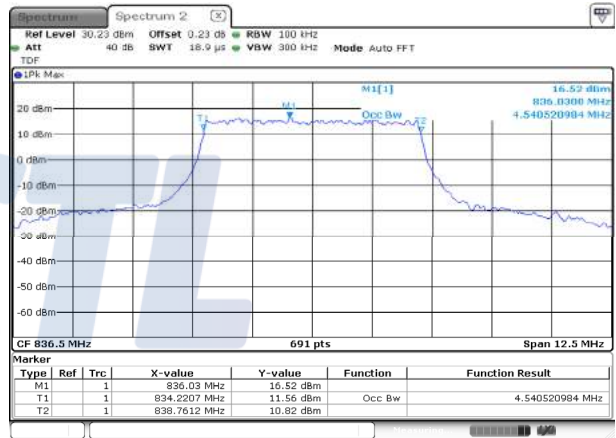
## 5M BW / 16QAM / Low ch.



## 5M BW / QPSK / Mid ch.



## 5M BW / 16QAM / Mid ch.



## 5M BW / QPSK / High ch.



## 5M BW / 16QAM / High ch.



# KCTL Inc.

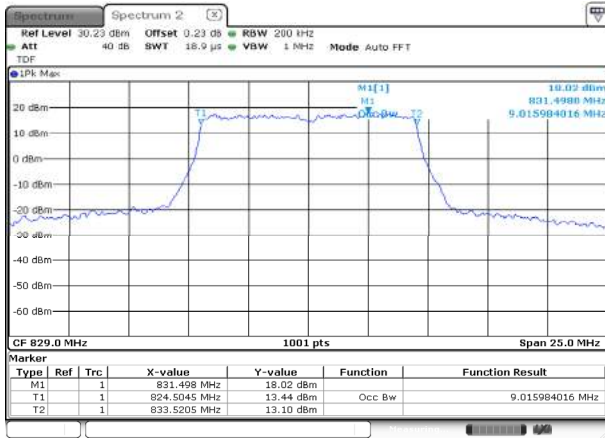
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Suwon-si, Gyeonggi-do, 16677, Korea  
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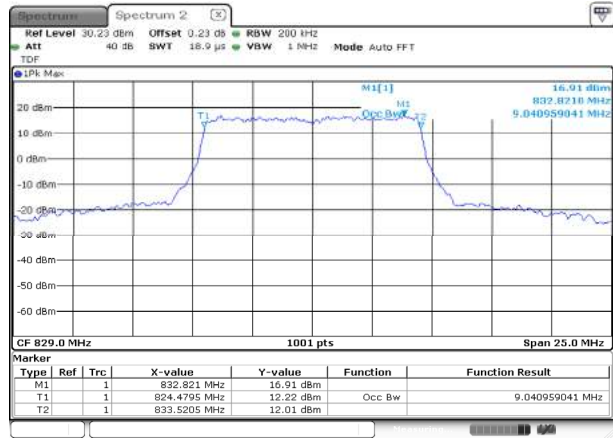


## 10M BW / QPSK / Low ch.



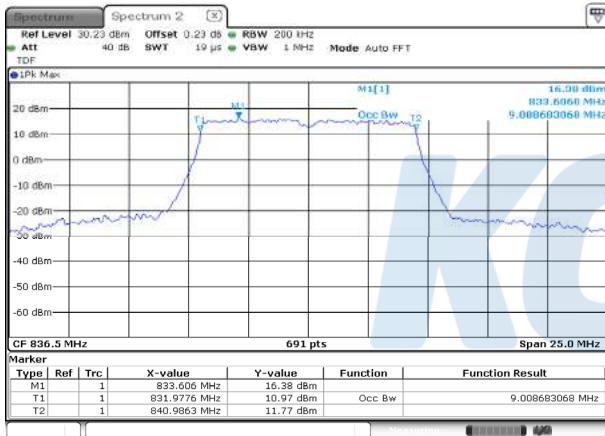
Date: 31.OCT.2019 19:56:40

## 10M BW / 16QAM / Low ch.



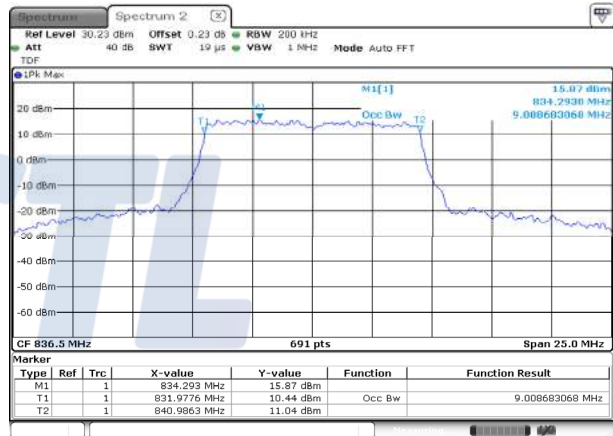
Date: 31.OCT.2019 20:03:24

## 10M BW / QPSK / Mid ch.



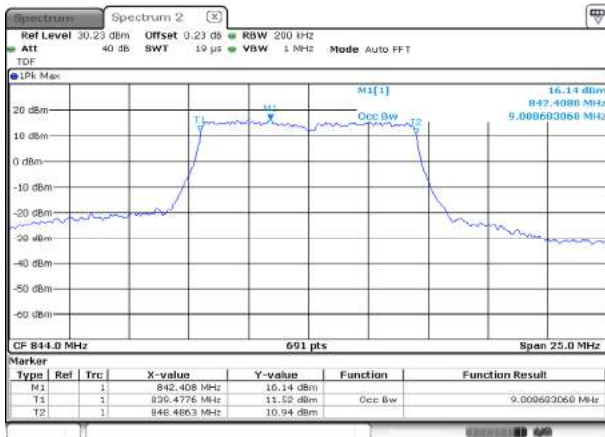
Date: 15.NOV.2019 21:56:09

## 10M BW / 16QAM / Mid ch.



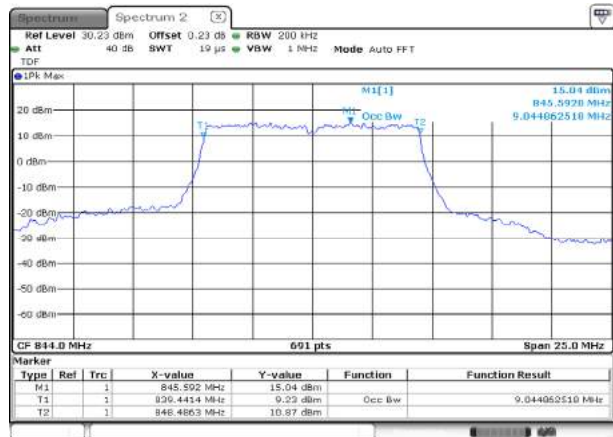
Date: 15.NOV.2019 21:57:24

## 10M BW / QPSK / High ch.



Date: 15.NOV.2019 21:59:06

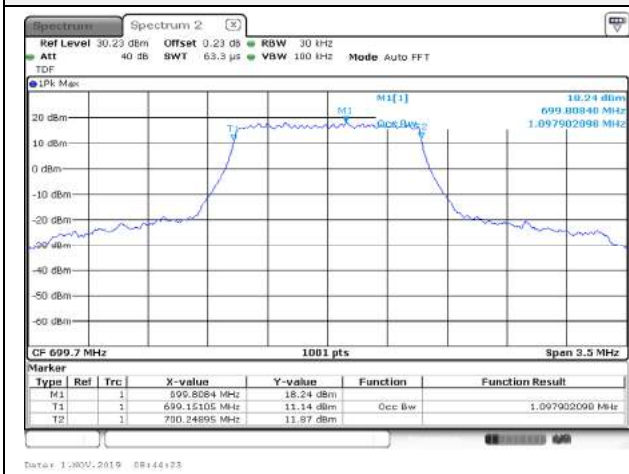
## 10M BW / 16QAM / High ch.



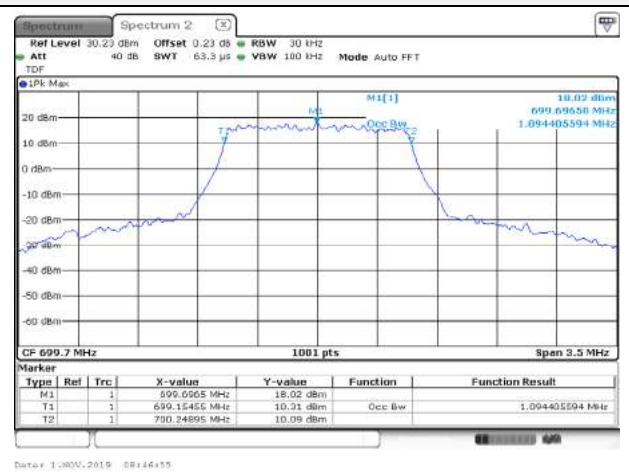
Date: 15.NOV.2019 22:00:38

**Test mode: LTE Band 12**

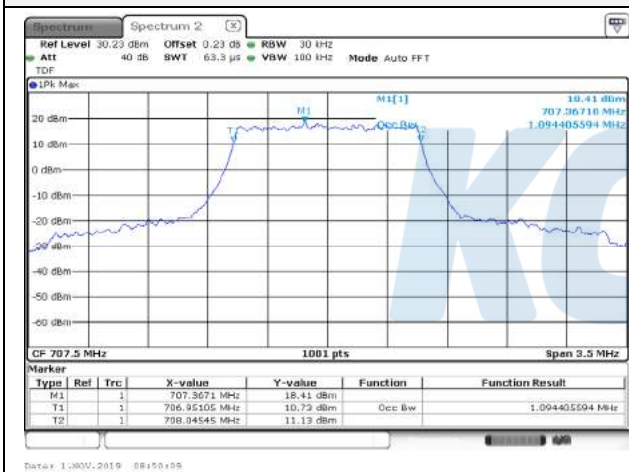
**1.4M BW / QPSK / Low ch.**



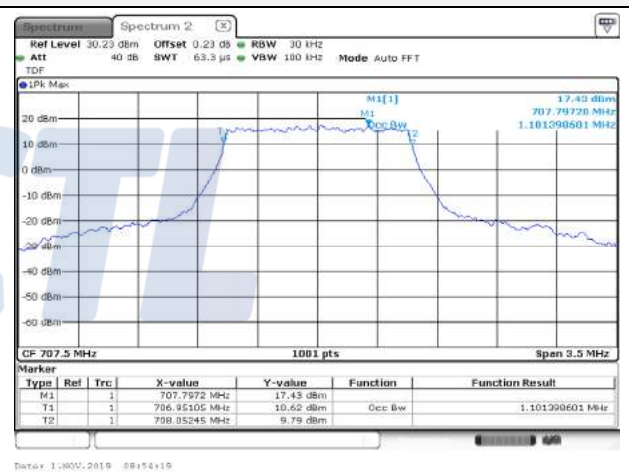
**1.4M BW / 16QAM / Low ch.**



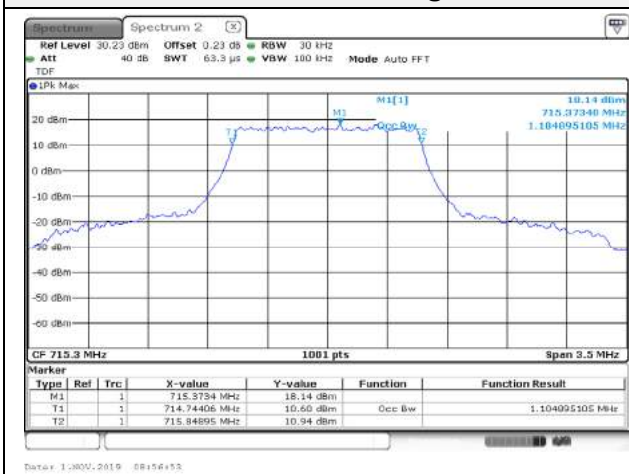
**1.4M BW / QPSK / Mid ch.**



**1.4M BW / 16QAM / Mid ch.**



**1.4M BW / QPSK / High ch.**



**1.4M BW / 16QAM / High ch.**



# KCTL Inc.

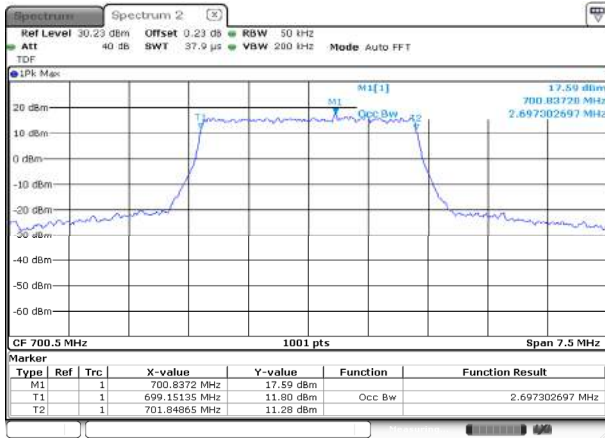
65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
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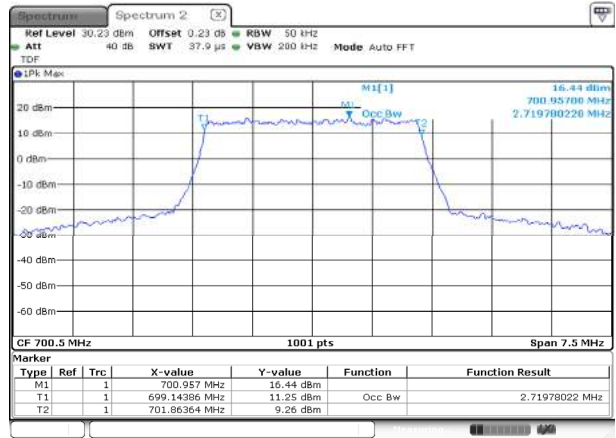


## 3M BW / QPSK / Low ch.



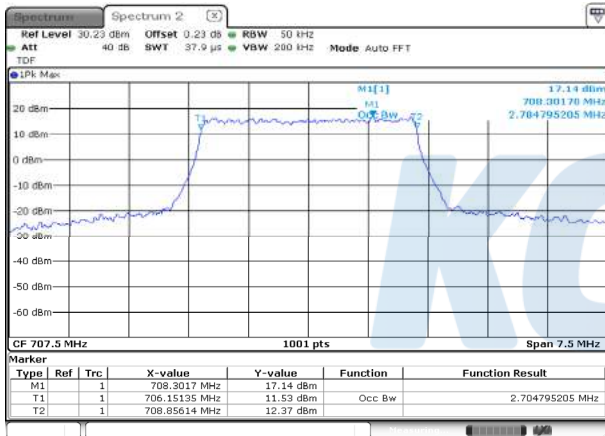
Date: 1.NOV.2019 09:10:38

## 3M BW / 16QAM / Low ch.



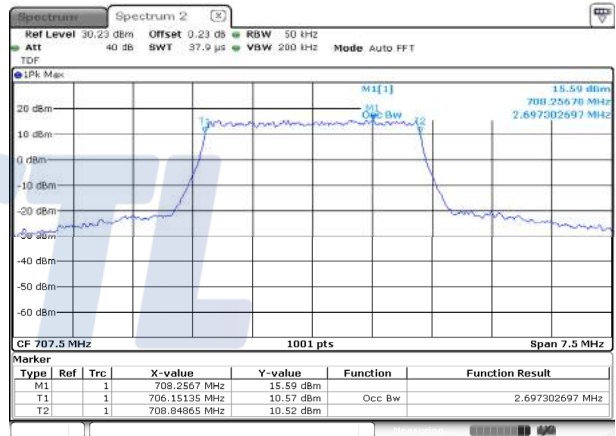
Date: 1.NOV.2019 09:12:52

## 3M BW / QPSK / Mid ch.



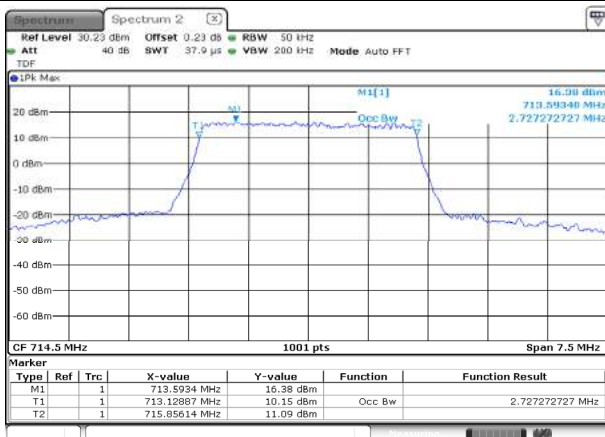
Date: 1.NOV.2019 09:16:15

## 3M BW / 16QAM / Mid ch.



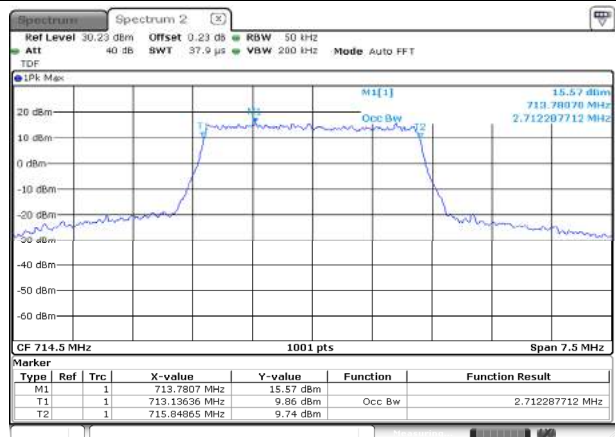
Date: 1.NOV.2019 09:18:57

## 3M BW / QPSK / High ch.



Date: 1.NOV.2019 09:21:15

## 3M BW / 16QAM / High ch.



Date: 1.NOV.2019 09:24:16