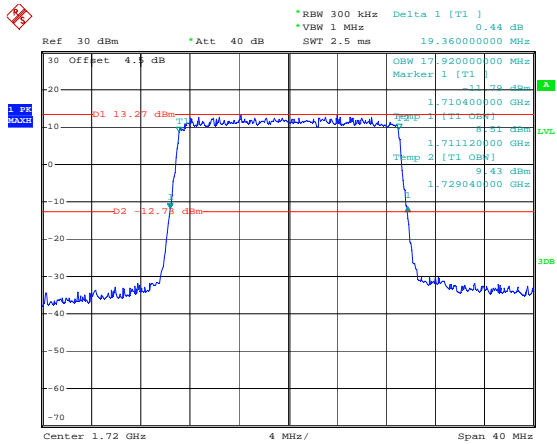
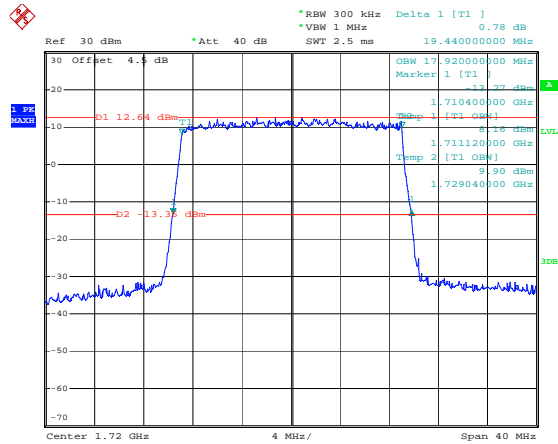


**20M, QPSK, Low Channel**



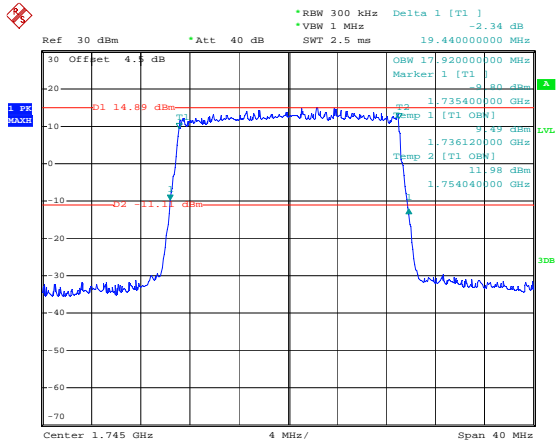
Date: 6.DEC.2020 13:52:50

**20M, 16QAM, Low Channel**



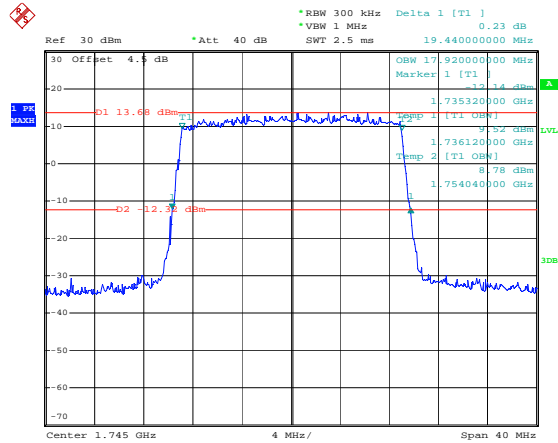
Date: 6.DEC.2020 13:53:16

**20M, QPSK, Middle Channel**



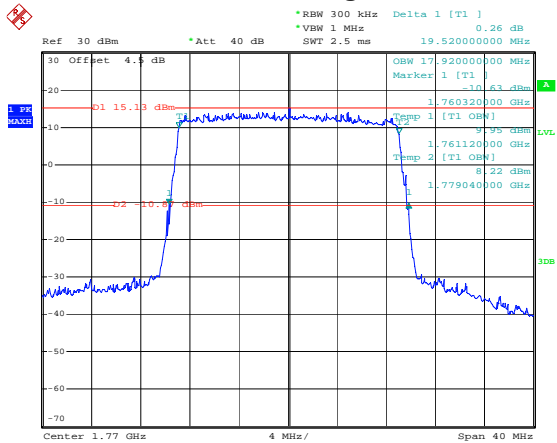
Date: 6.DEC.2020 13:53:40

**20M, 16QAM, Middle Channel**



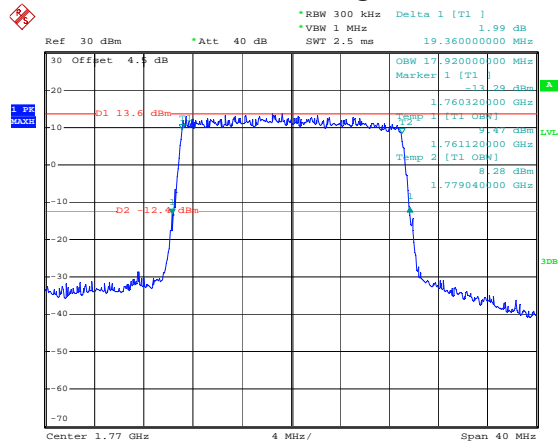
Date: 6.DEC.2020 13:54:03

**20M, QPSK, High Channel**



Date: 6.DEC.2020 13:54:27

**20M, 16QAM, High Channel**



Date: 6.DEC.2020 13:54:49

## FCC §2.1051, §22.917(a) & §24.238(a) & §27.53, §90.691 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

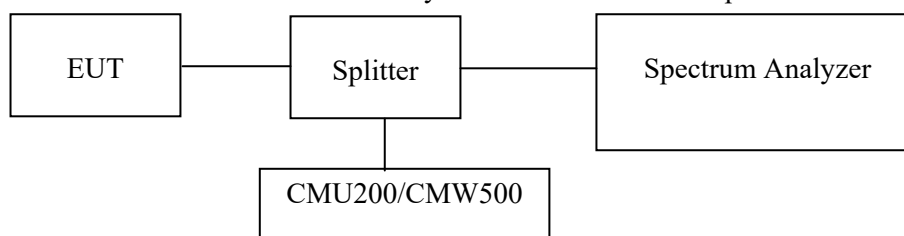
### Applicable Standard

FCC §2.1051, §22.917(a), §24.238(a) and §27.53, §90.691.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

### Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.



### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2020-07-07	2021-07-07
R&S	Spectrum Analyzer	FSV40	101474	2020-01-09	2021-01-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A
E-Microwave	Two-way Splitter	ODP-1-6-2S	OE0120142	Each Time	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

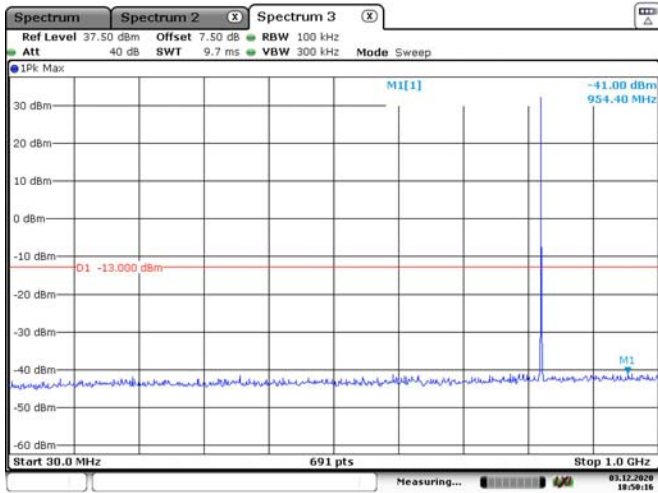
### Test Data

#### Environmental Conditions

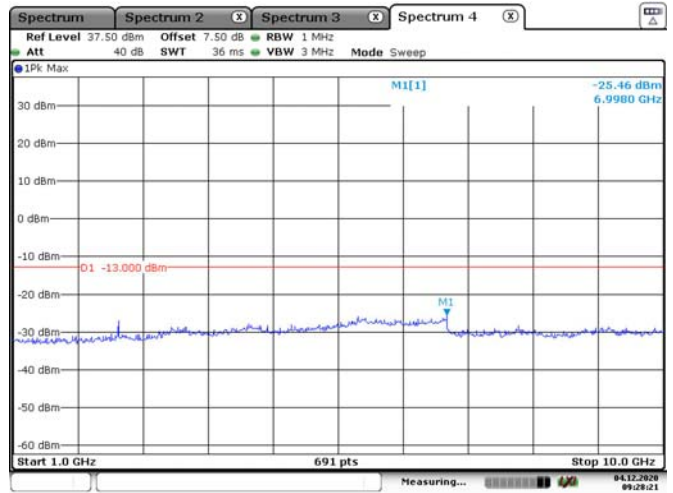
<b>Temperature:</b>	22.1~24.2 °C
<b>Relative Humidity:</b>	35~42%
<b>ATM Pressure:</b>	101.2~102.4kPa
<b>Tester:</b>	Theshy Xie
<b>Test Date:</b>	2020-12-03~2020-12-17

*Test Result: Compliance. Please refer to the following plots.*

GPRS 850, Low Channel

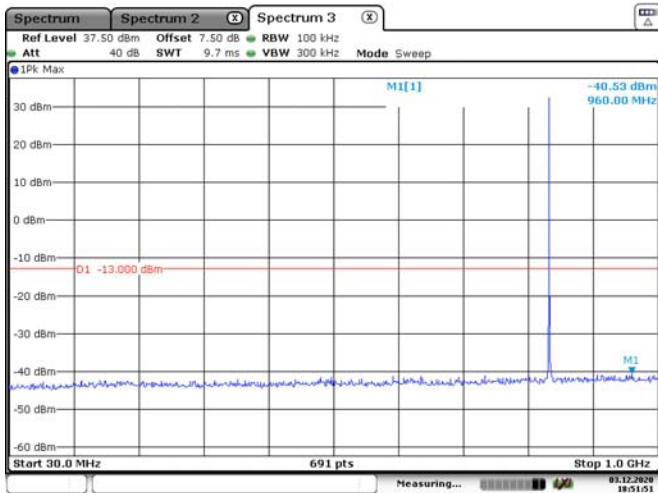


Date: 3. DEC. 2020 18:50:16

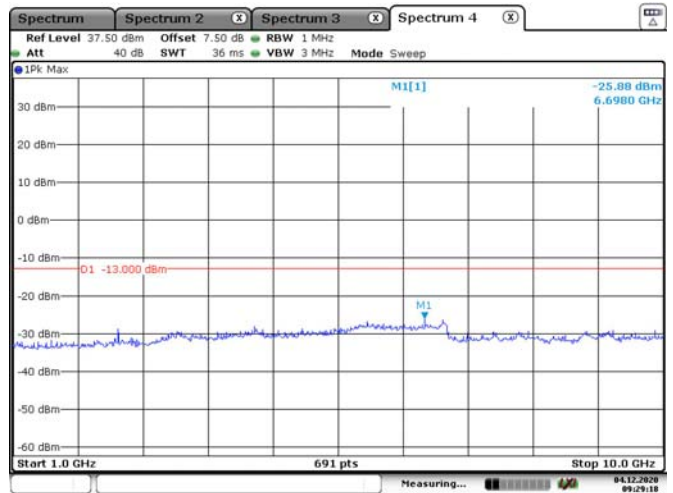


Date: 4. DEC. 2020 09:28:21

GPRS 850, Middle Channel

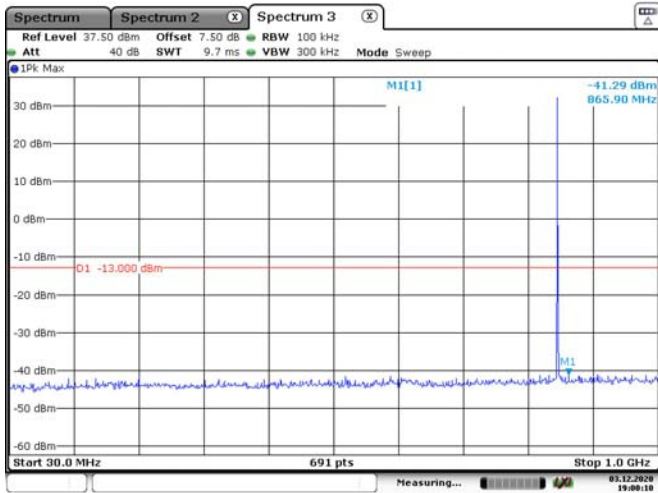


Date: 3. DEC. 2020 18:51:52

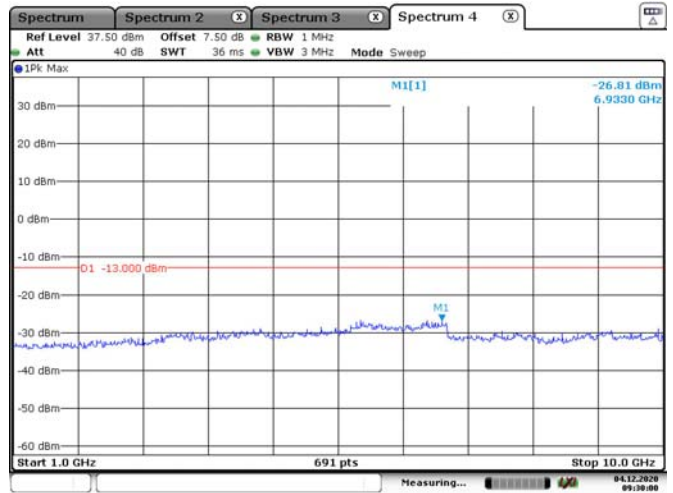


Date: 4. DEC. 2020 09:29:18

GPRS 850, High Channel

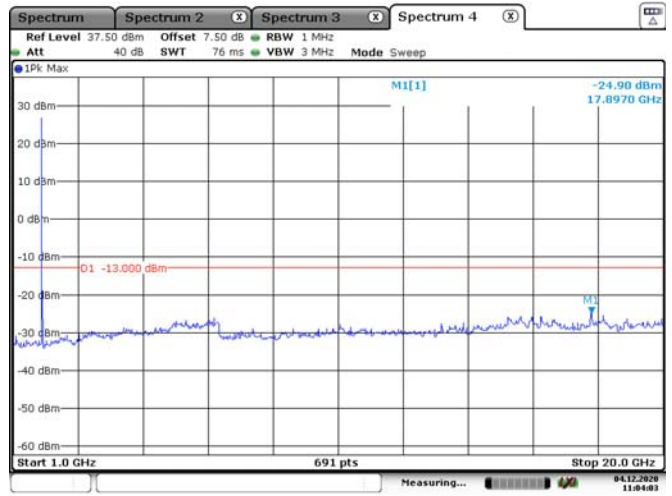
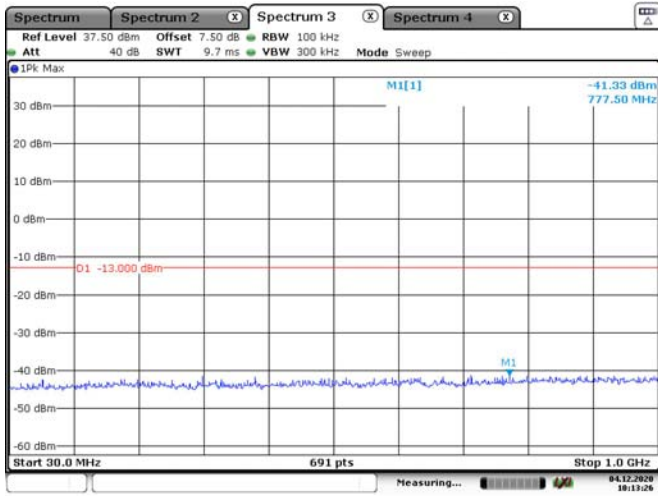


Date: 3. DEC. 2020 19:00:10

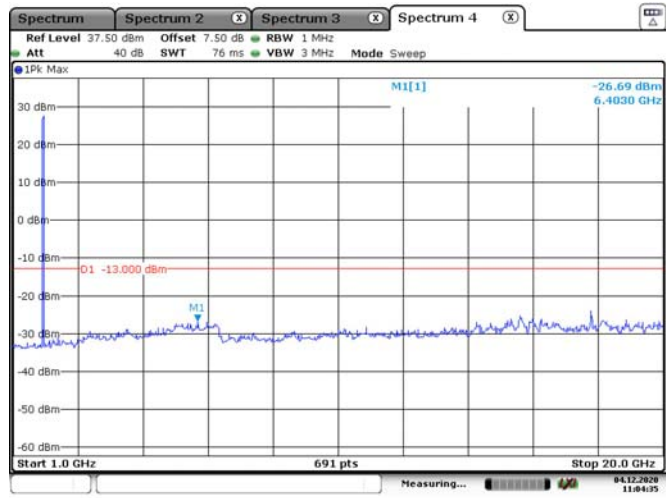
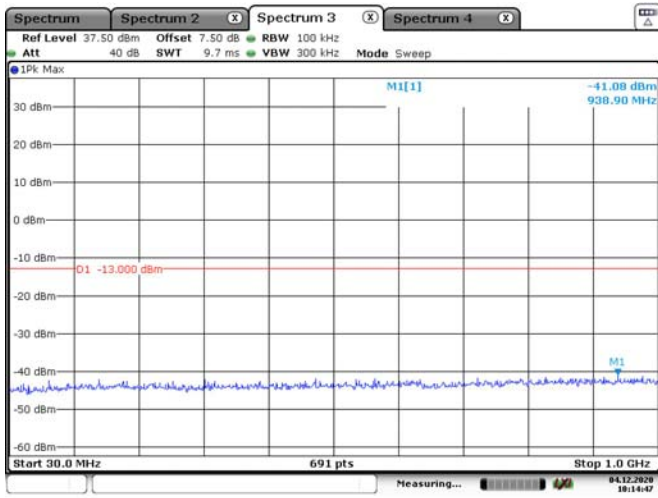


Date: 4. DEC. 2020 09:30:00

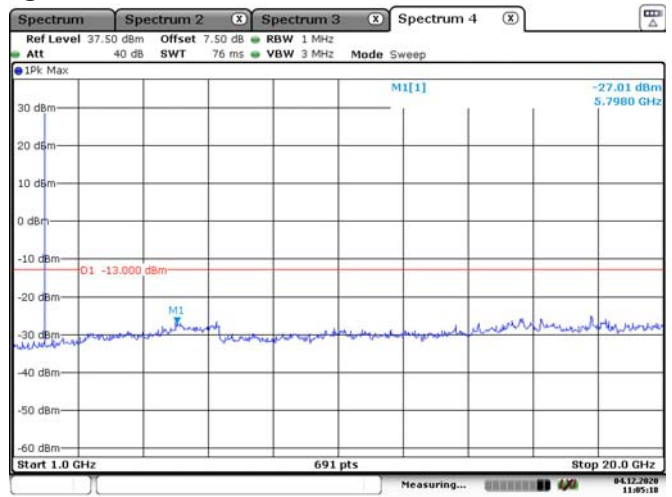
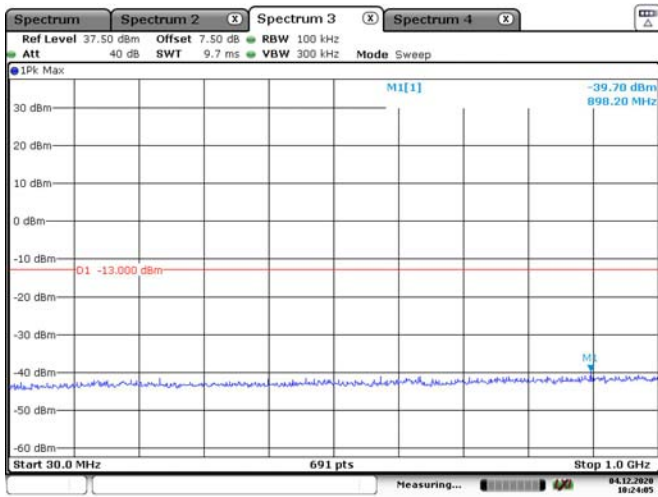
GPRS 1900, Low Channel



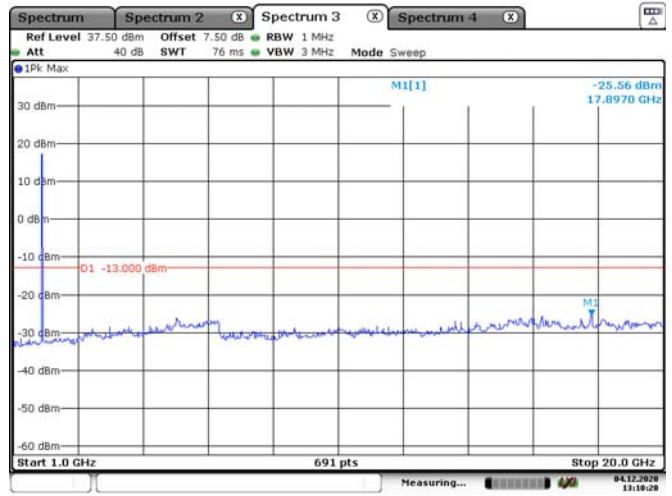
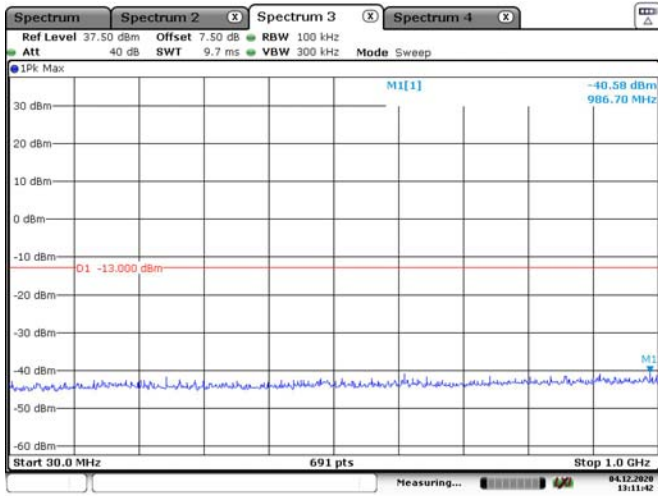
GPRS 1900, Middle Channel



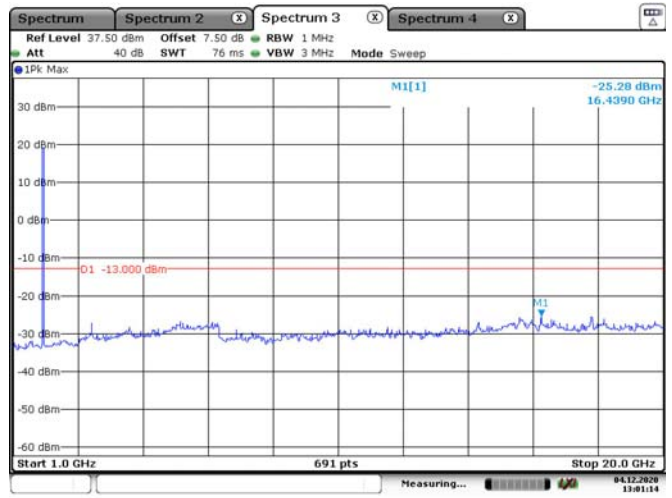
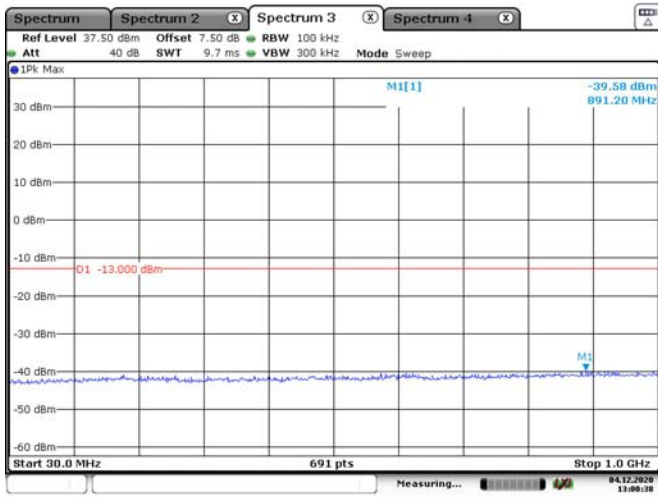
GPRS 1900, High Channel



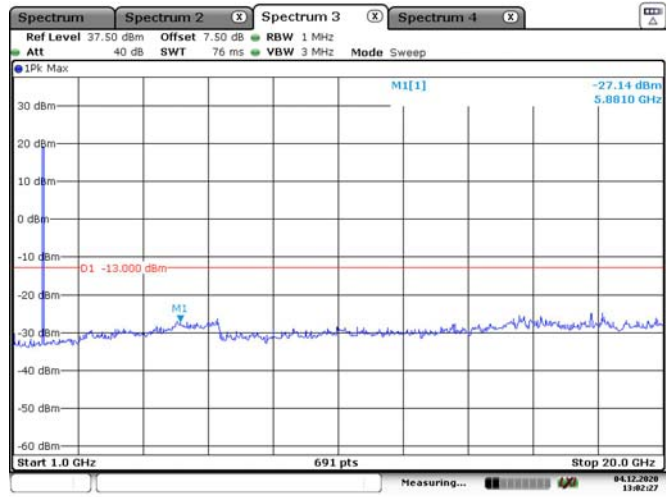
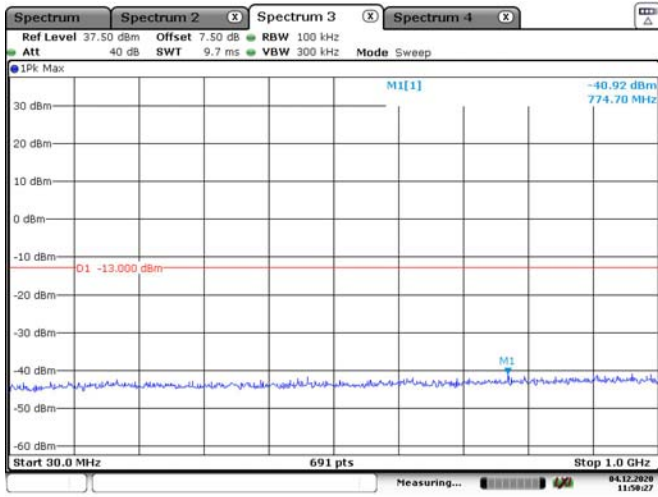
**WCDMA Band II, R99, Low Channel**



**WCDMA Band II, R99, Middle Channel**

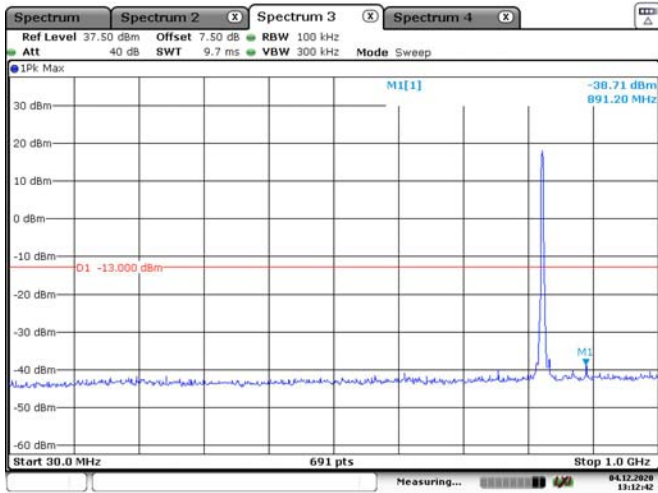


**WCDMA Band II, R99, High Channel**

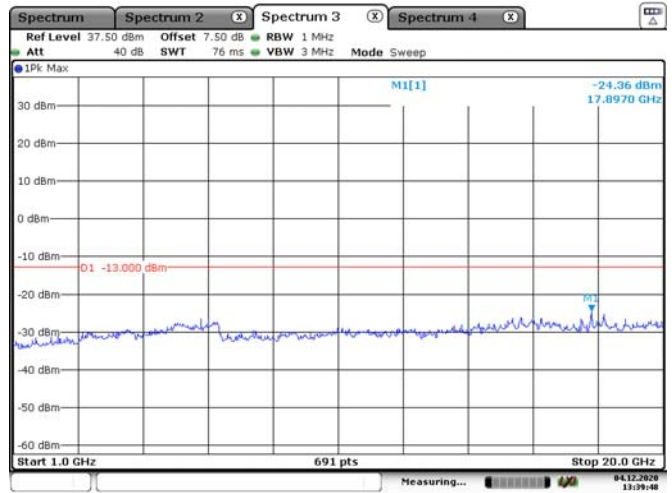




**WCDMA Band V, R99, Low Channel**

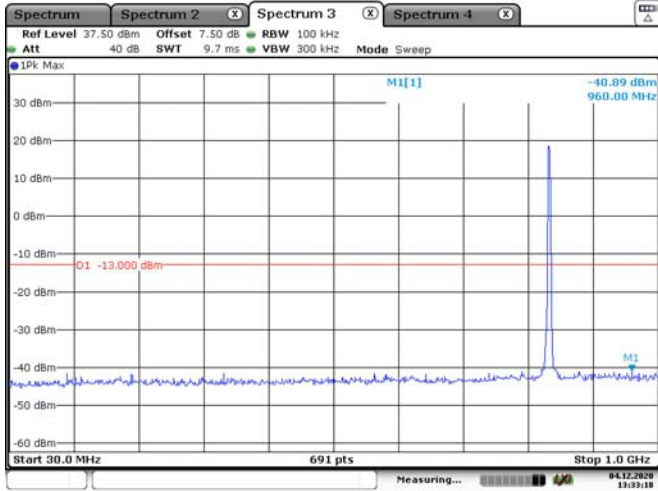


Date: 4. DEC. 2020 13:12:42

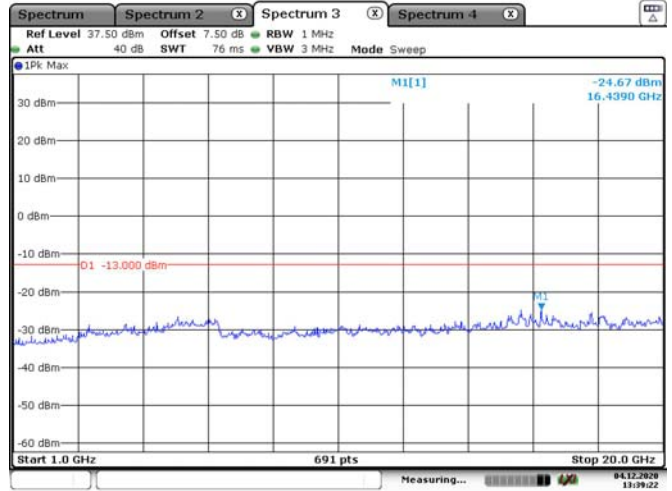


Date: 4. DEC. 2020 13:13:49

**WCDMA Band V, R99, Middle Channel**

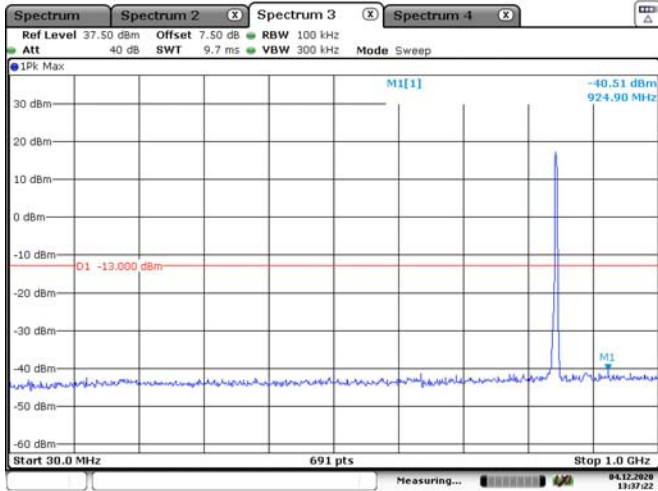


Date: 4. DEC. 2020 13:33:18

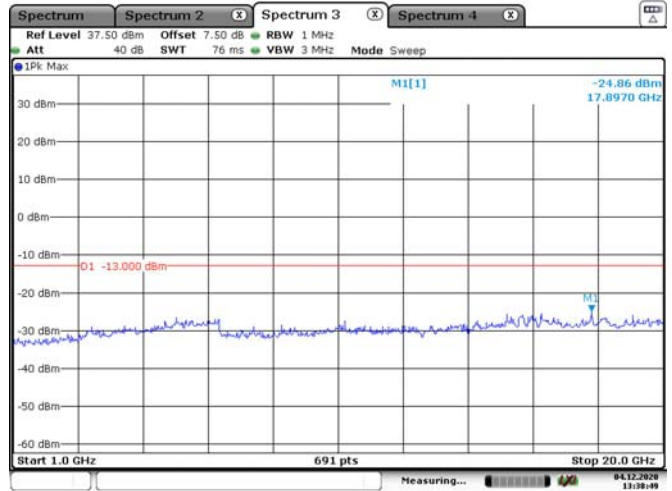


Date: 4. DEC. 2020 13:33:23

**WCDMA Band V, R99, High Channel**



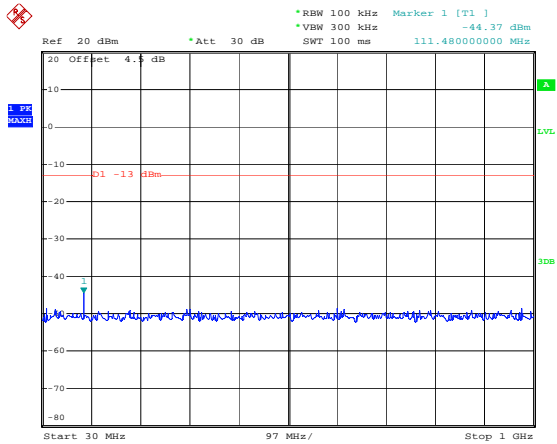
Date: 4. DEC. 2020 13:37:22



Date: 4. DEC. 2020 13:38:49

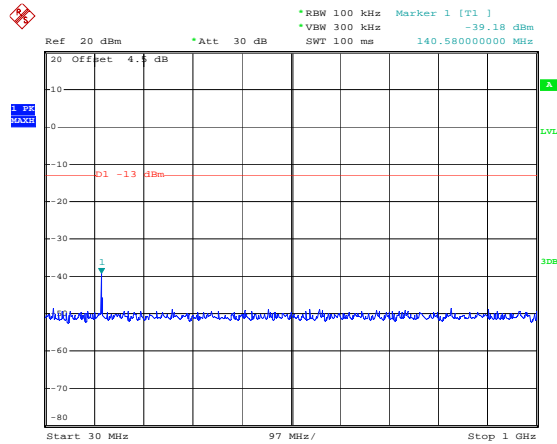
**LTE Band 2:**

**1.4M, QPSK, Low Channel**

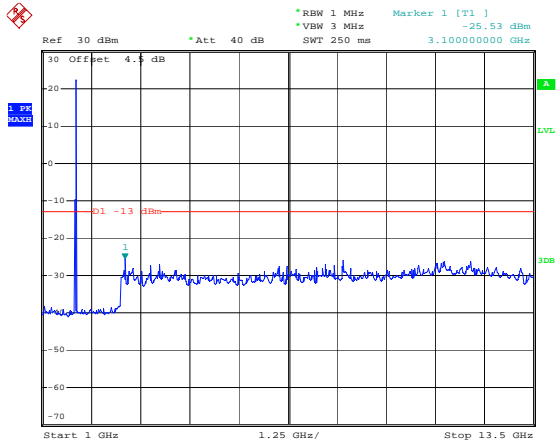


Date: 7.DEC.2020 10:56:09

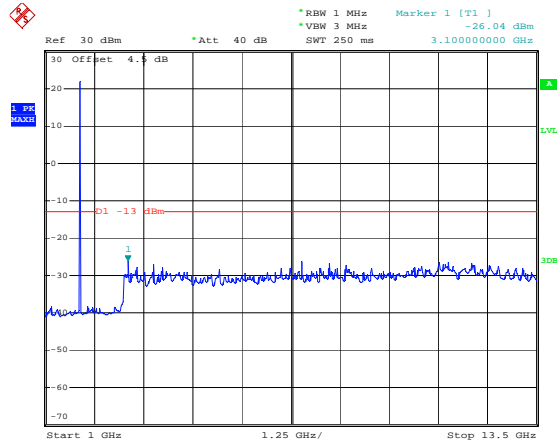
**1.4M, QPSK, Middle Channel**



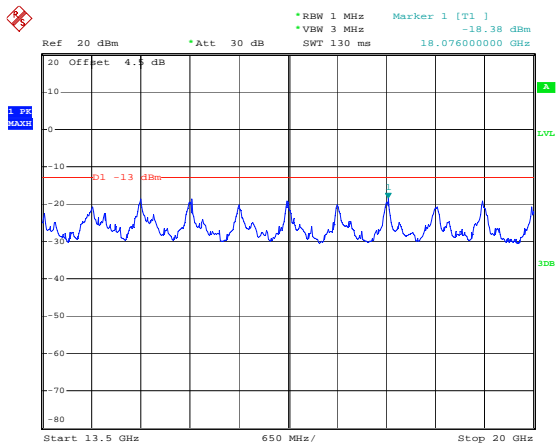
Date: 7.DEC.2020 10:56:52



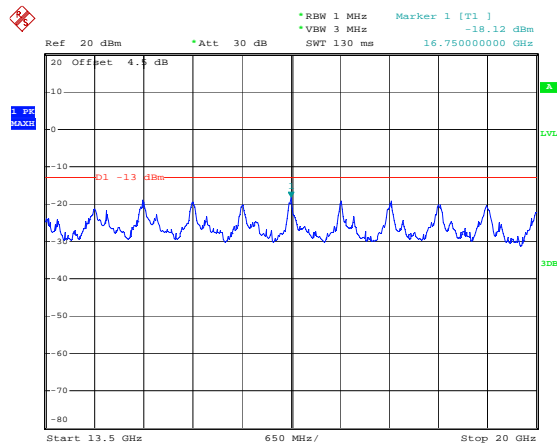
Date: 7.DEC.2020 10:56:22



Date: 7.DEC.2020 10:57:05

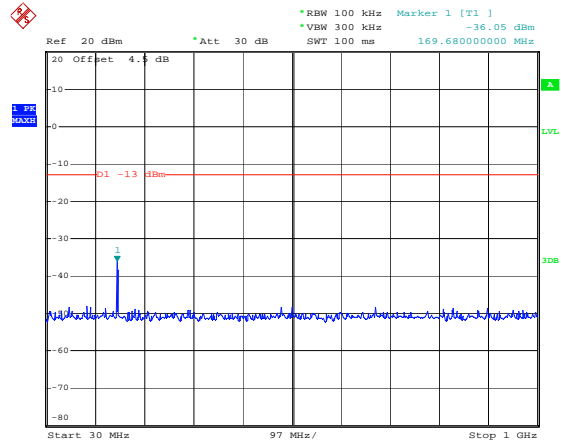


Date: 7.DEC.2020 10:56:34



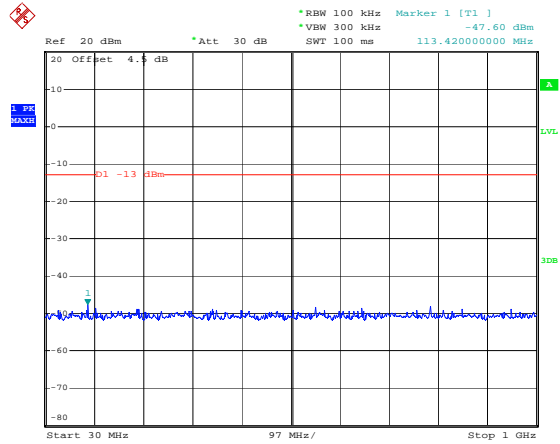
Date: 7.DEC.2020 10:57:17

### 1.4M, QPSK, High Channel

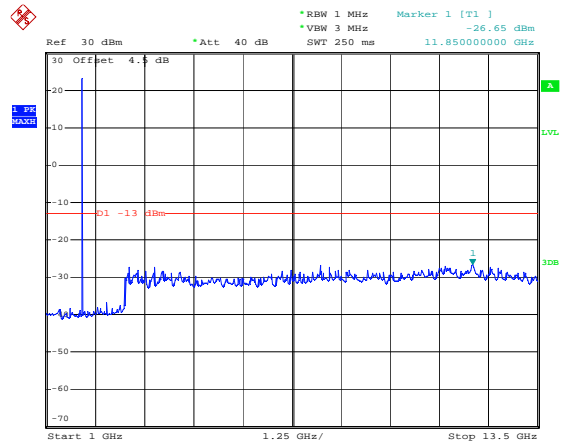


Date: 7.DEC.2020 10:57:35

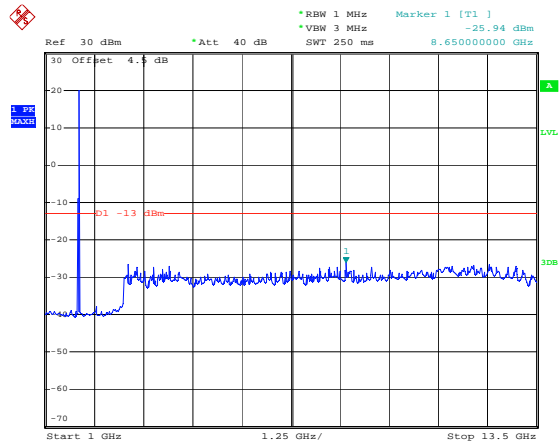
### 3M, QPSK, Low Channel



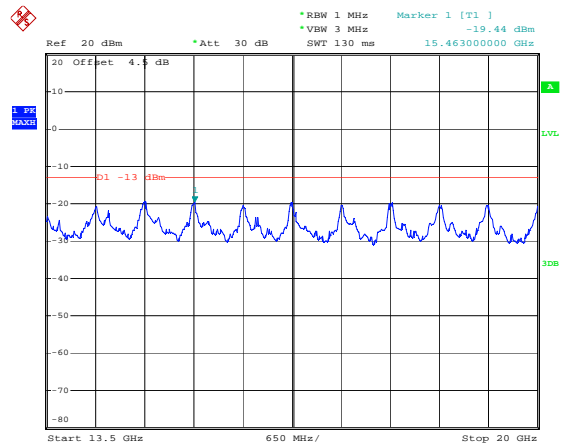
Date: 7.DEC.2020 11:00:09



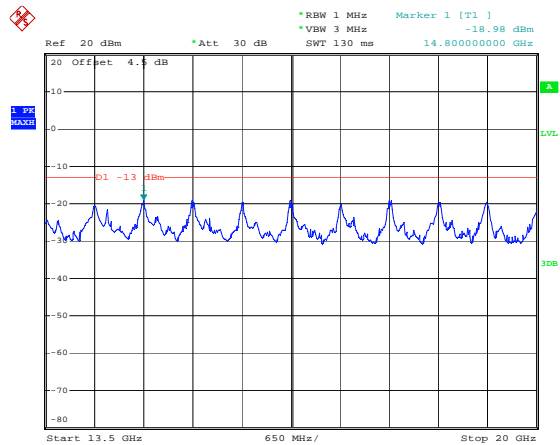
Date: 7.DEC.2020 10:57:47



Date: 7.DEC.2020 11:00:24



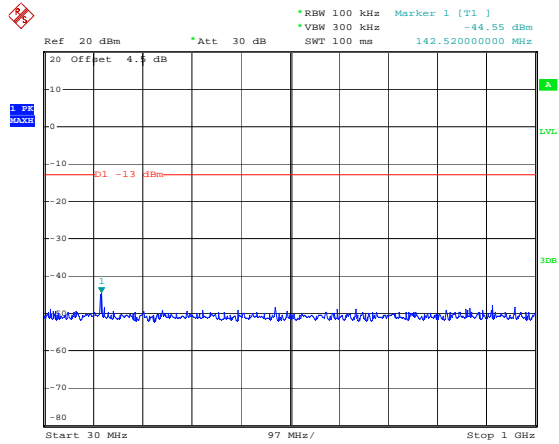
Date: 7.DEC.2020 10:58:00



Date: 7.DEC.2020 11:00:37

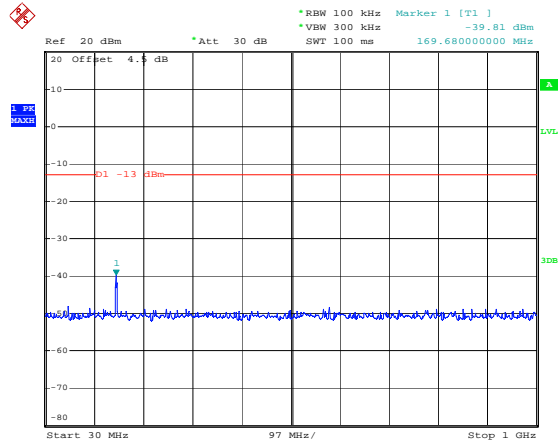


### 3M, QPSK, Middle Channel

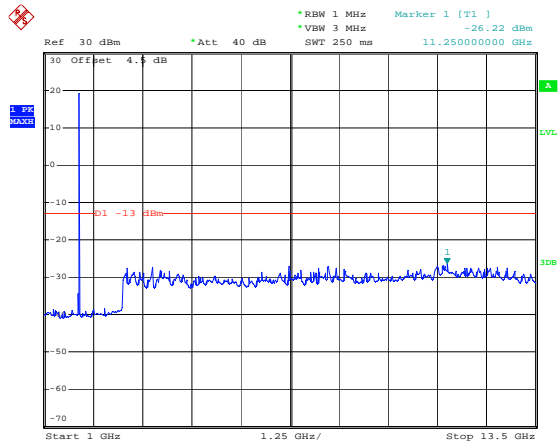


Date: 7.DEC.2020 11:00:55

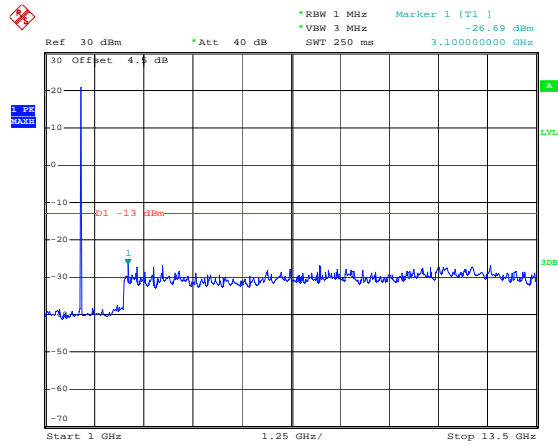
### 3M, QPSK, High Channel



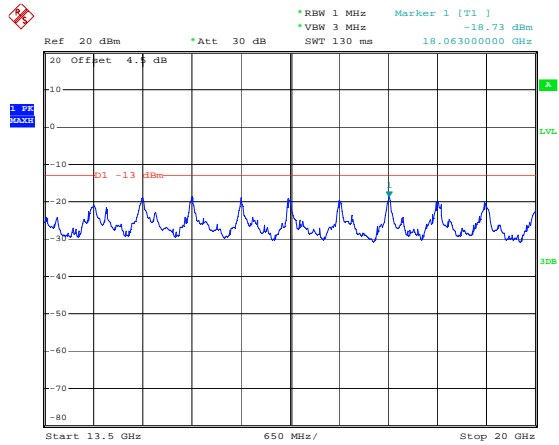
Date: 7.DEC.2020 11:01:44



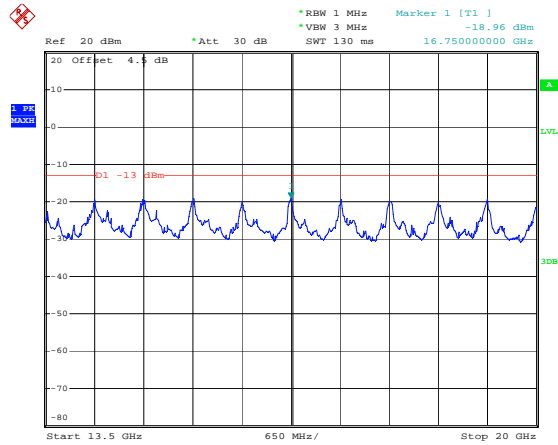
Date: 7.DEC.2020 11:01:07



Date: 7.DEC.2020 11:01:57

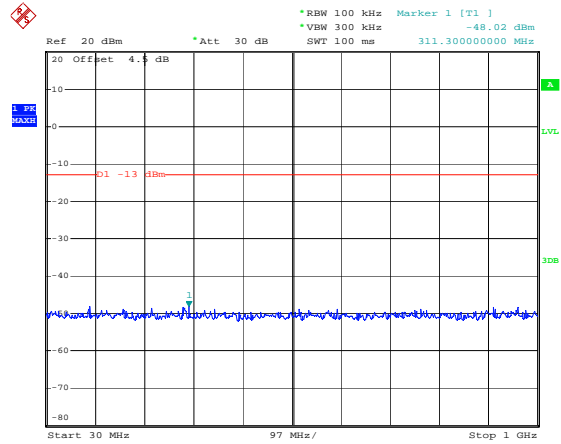


Date: 7.DEC.2020 11:01:23



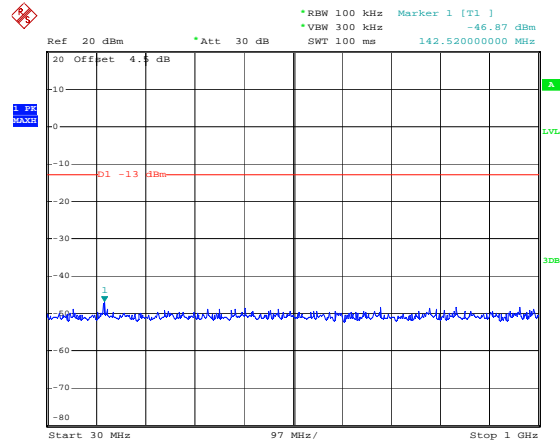
Date: 7.DEC.2020 11:02:10

**5M, QPSK, Low Channel**

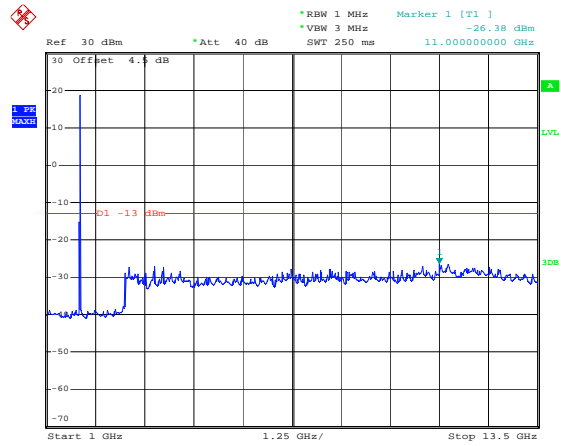


Date: 7.DEC.2020 11:04:27

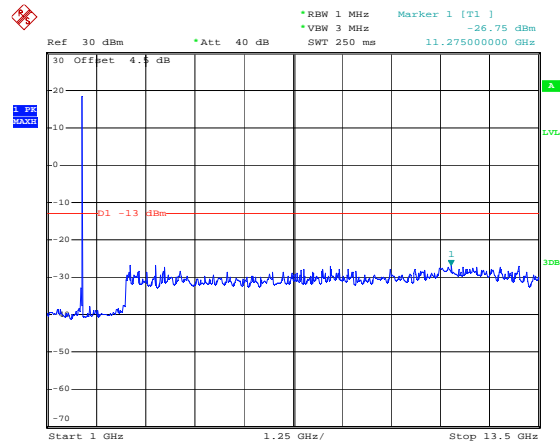
**5M, QPSK, Middle Channel**



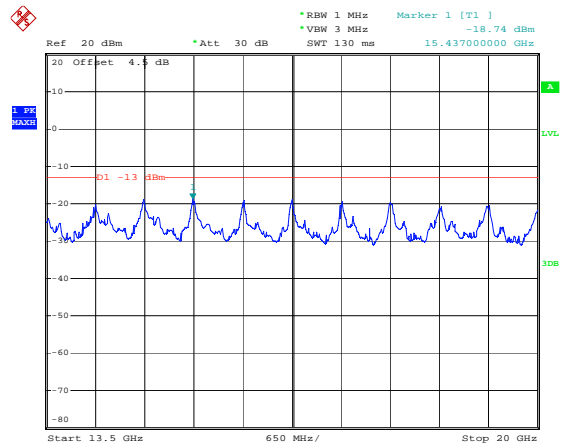
Date: 7.DEC.2020 11:05:10



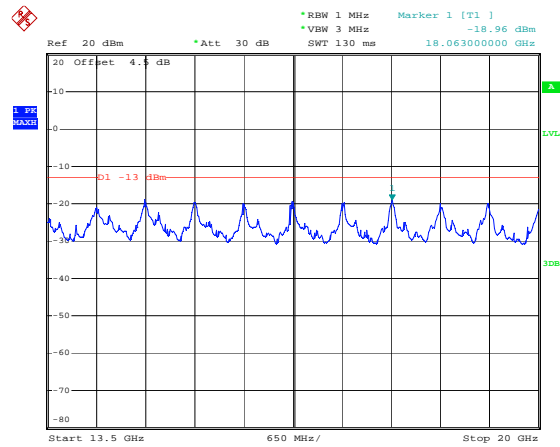
Date: 7.DEC.2020 11:04:40



Date: 7.DEC.2020 11:05:23

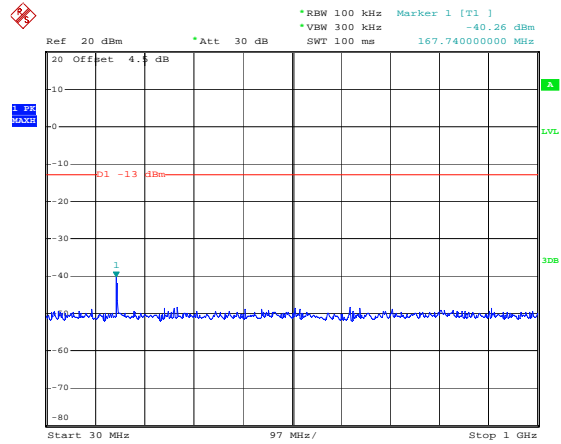


Date: 7.DEC.2020 11:04:53



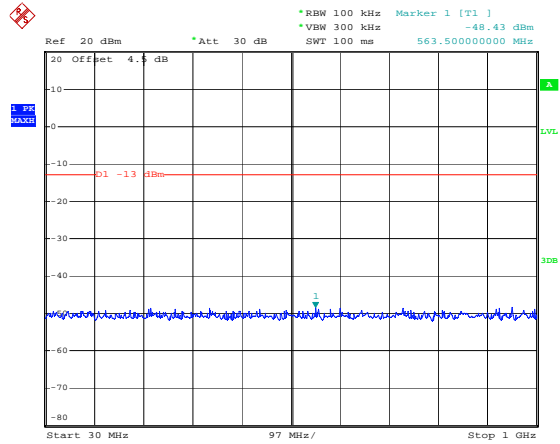
Date: 7.DEC.2020 11:05:36

### 5M, QPSK, High Channel

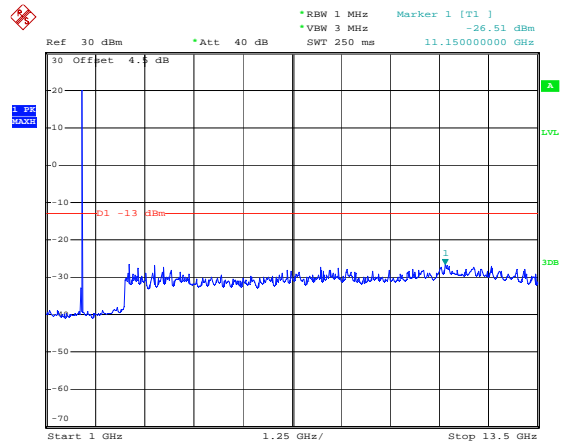


Date: 7.DEC.2020 11:05:57

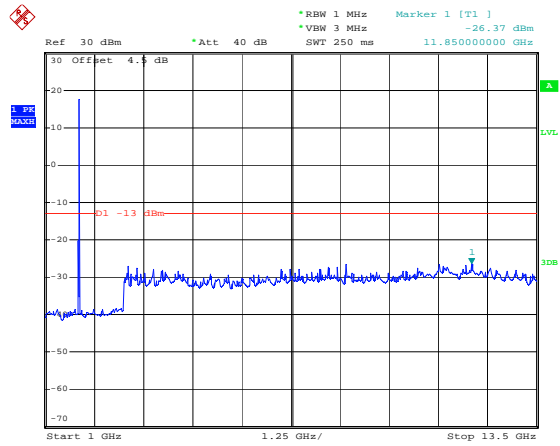
### 10M, QPSK, Low Channel



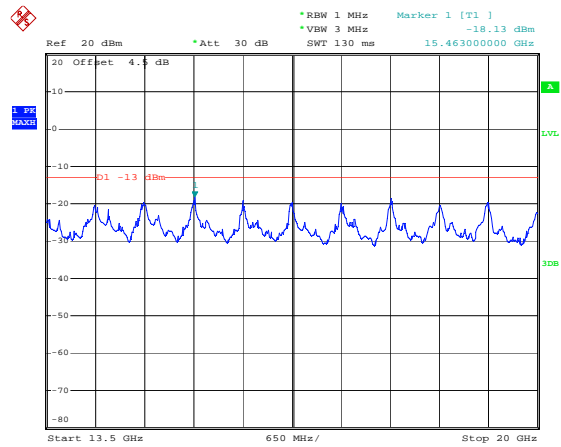
Date: 7.DEC.2020 11:07:03



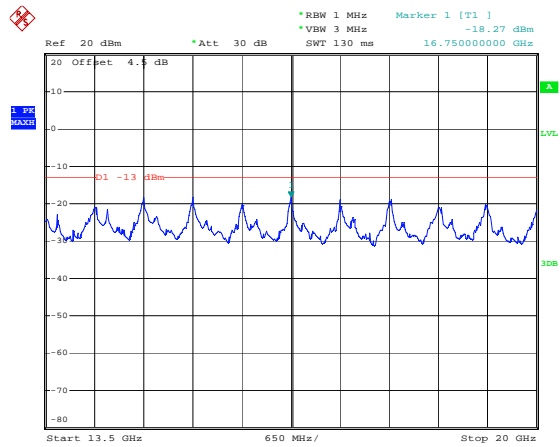
Date: 7.DEC.2020 11:06:10



Date: 7.DEC.2020 11:07:16

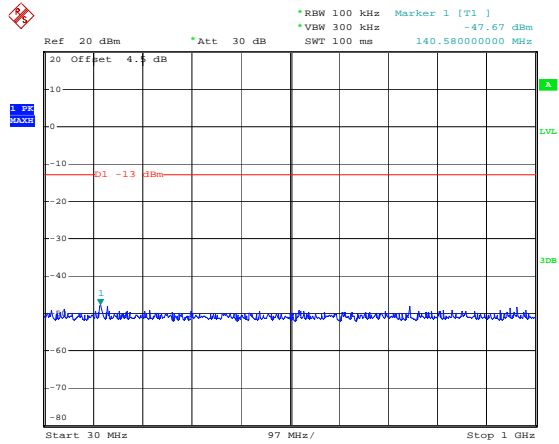


Date: 7.DEC.2020 11:06:23



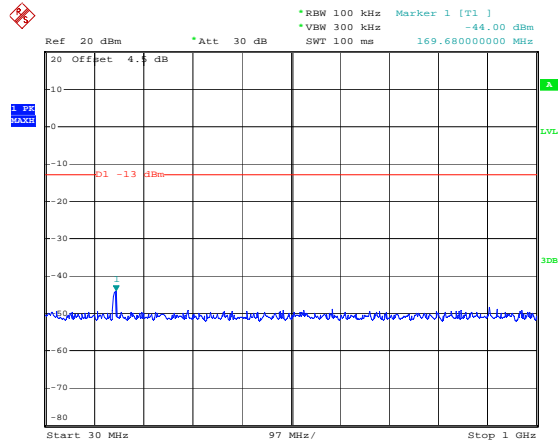
Date: 7.DEC.2020 11:07:28

### 10M, QPSK, Middle Channel

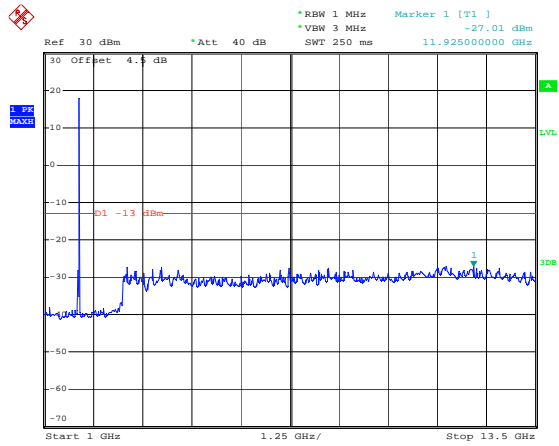


Date: 7.DEC.2020 11:07:47

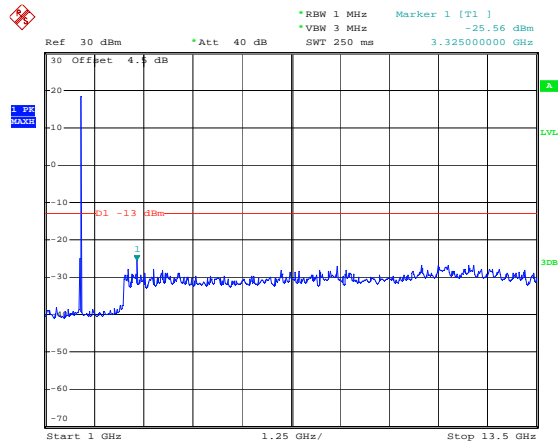
### 10M, QPSK, High Channel



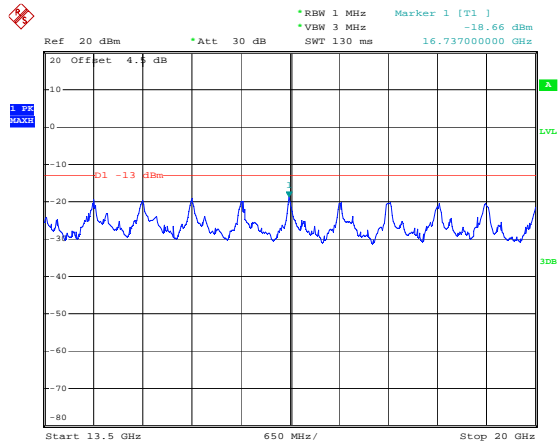
Date: 7.DEC.2020 11:08:31



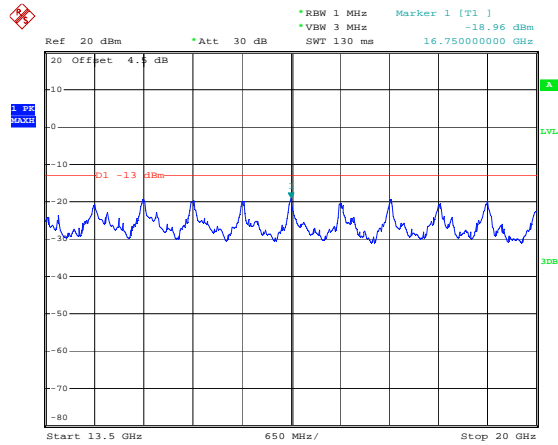
Date: 7.DEC.2020 11:08:00



Date: 7.DEC.2020 11:08:44

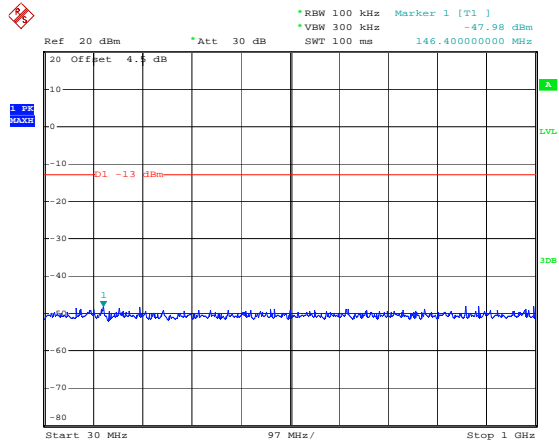


Date: 7.DEC.2020 11:08:13



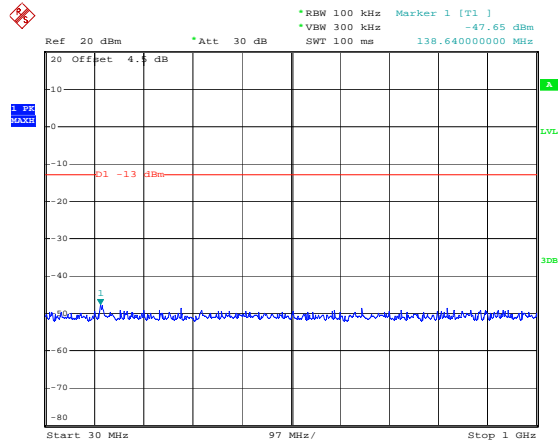
Date: 7.DEC.2020 11:08:57

### 15M, QPSK, Low Channel

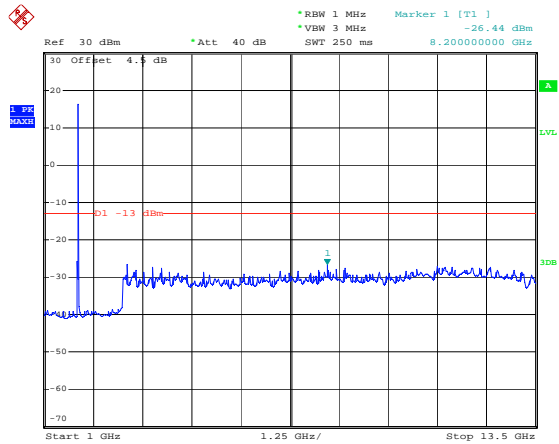


Date: 7.DEC.2020 11:09:49

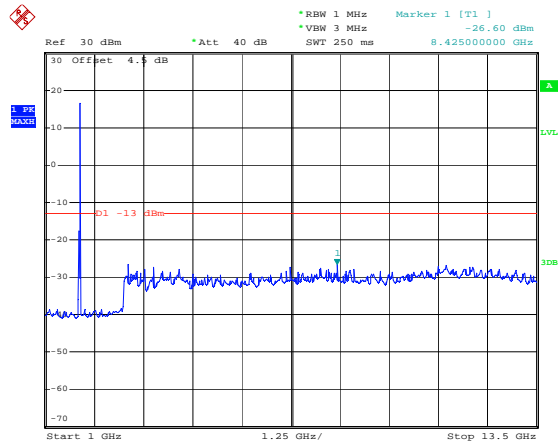
### 15M, QPSK, Middle Channel



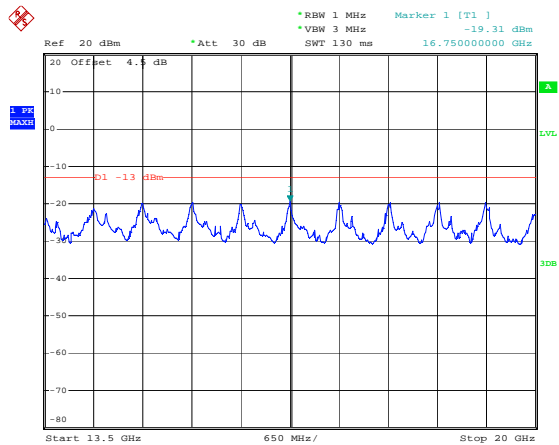
Date: 7.DEC.2020 11:10:35



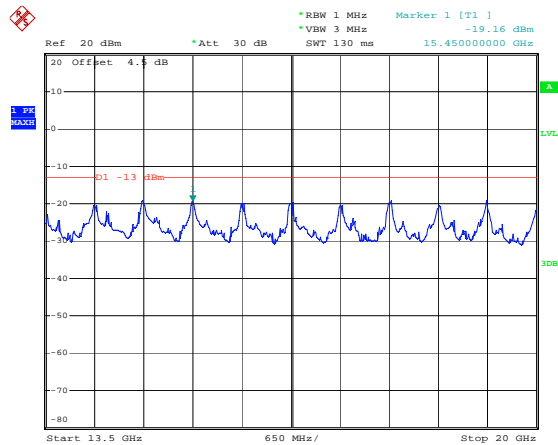
Date: 7.DEC.2020 11:10:02



Date: 7.DEC.2020 11:10:51

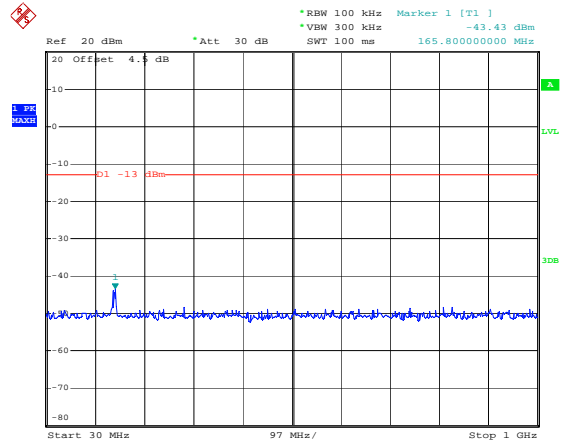


Date: 7.DEC.2020 11:10:15



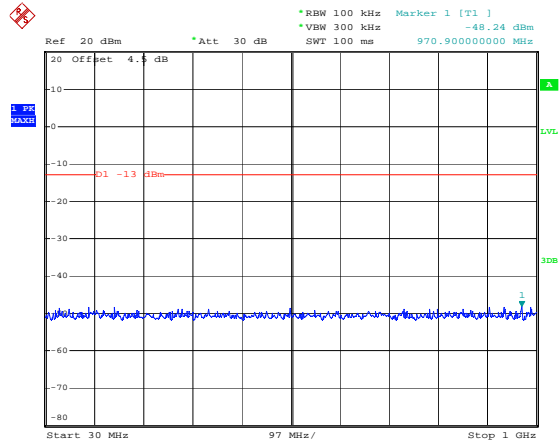
Date: 7.DEC.2020 11:11:04

### 15M, QPSK, High Channel

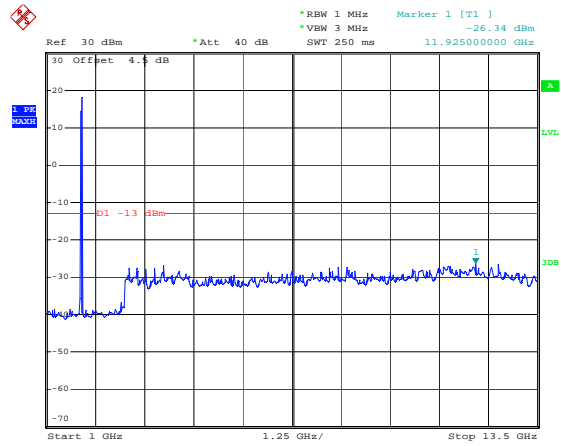


Date: 7.DEC.2020 11:11:28

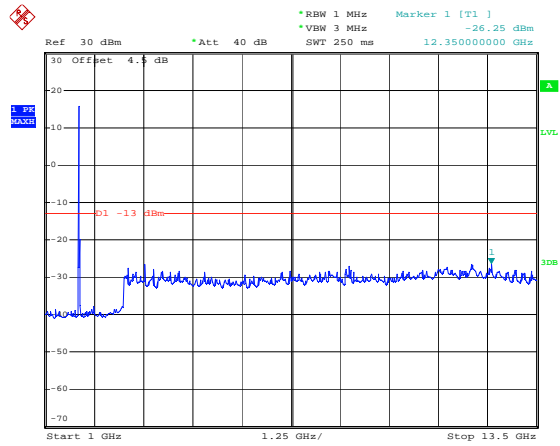
### 20M, QPSK, Low Channel



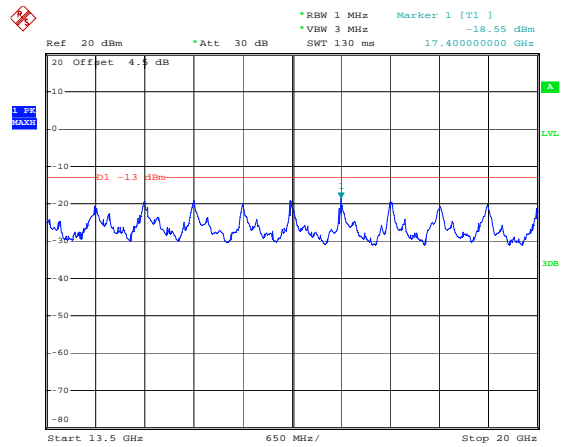
Date: 7.DEC.2020 11:21:13



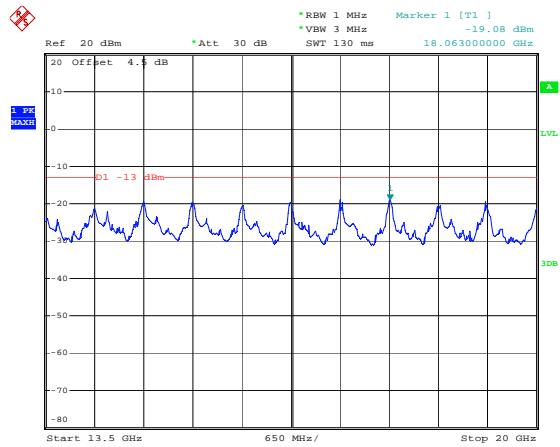
Date: 7.DEC.2020 11:11:41



Date: 7.DEC.2020 11:21:26



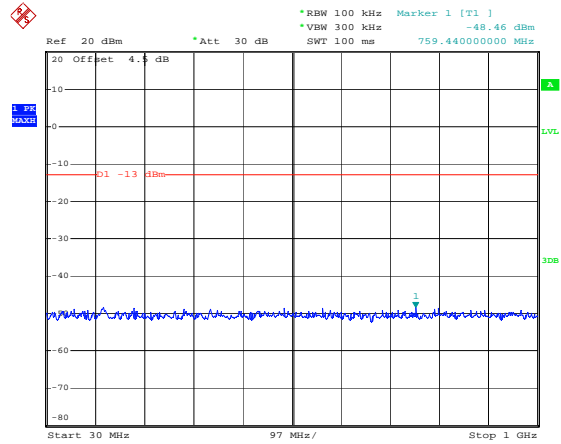
Date: 7.DEC.2020 11:11:54



Date: 7.DEC.2020 11:21:39

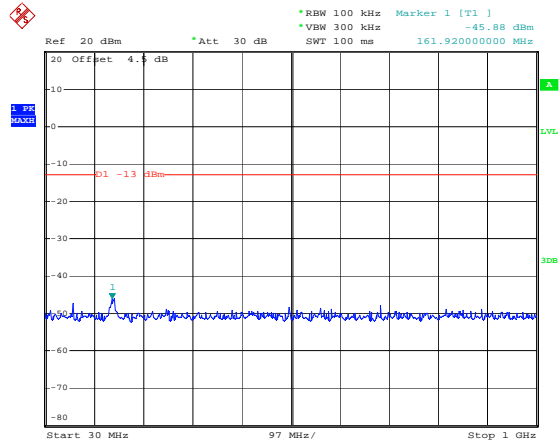


### 20M, QPSK, Middle Channel

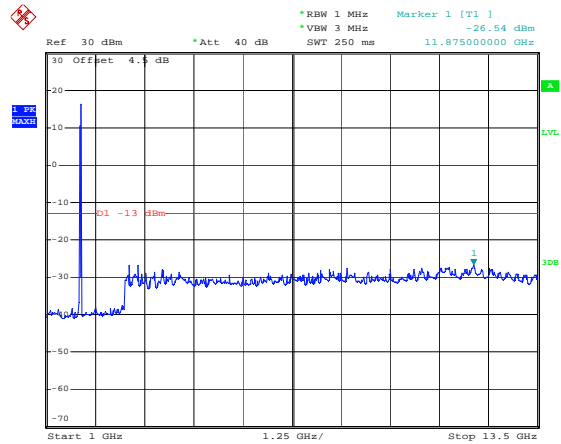


Date: 7.DEC.2020 11:22:03

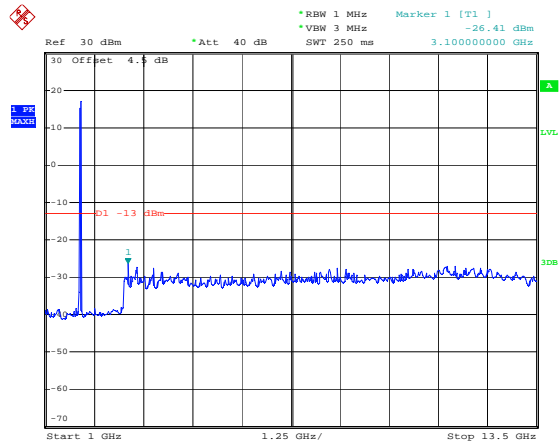
### 20M, QPSK, High Channel



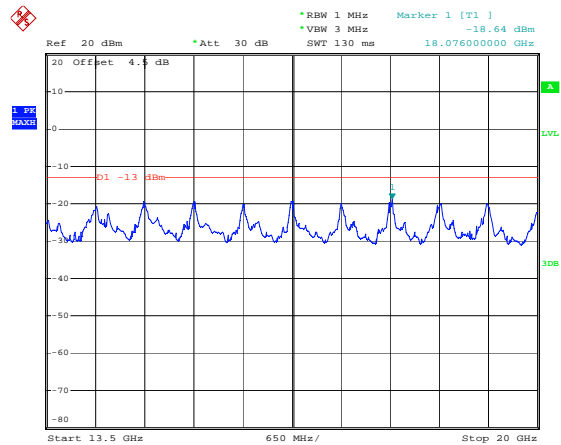
Date: 7.DEC.2020 11:22:50



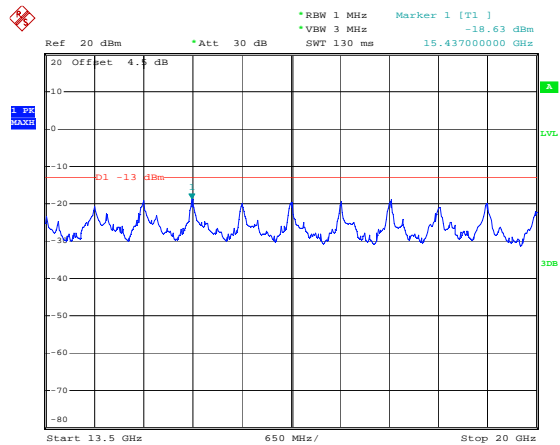
Date: 7.DEC.2020 11:22:16



Date: 7.DEC.2020 11:23:03



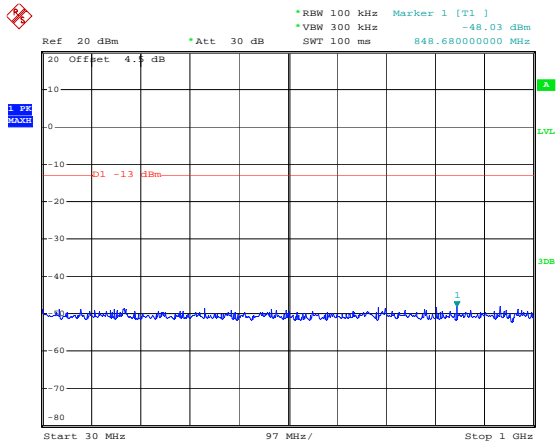
Date: 7.DEC.2020 11:22:29



Date: 7.DEC.2020 11:23:16

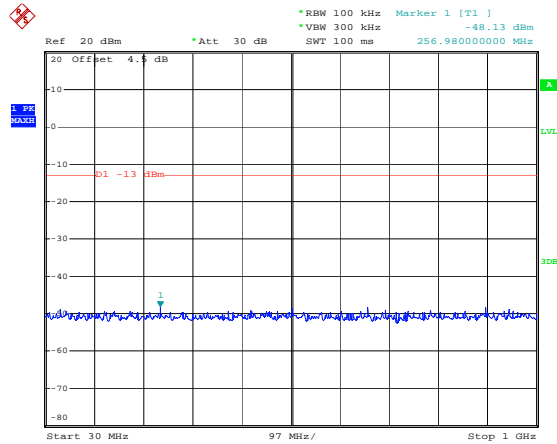
LTE Band 4:

1.4M, QPSK, Low Channel

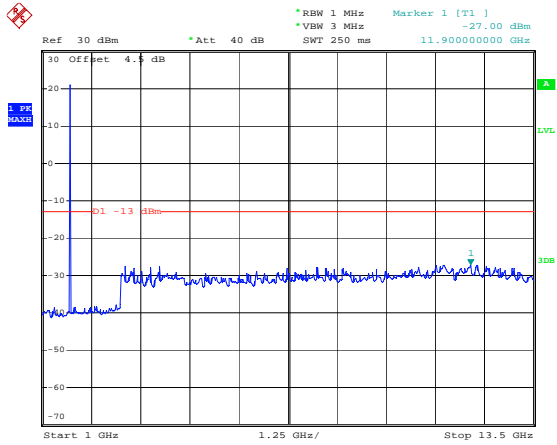


Date: 7.DEC.2020 11:24:04

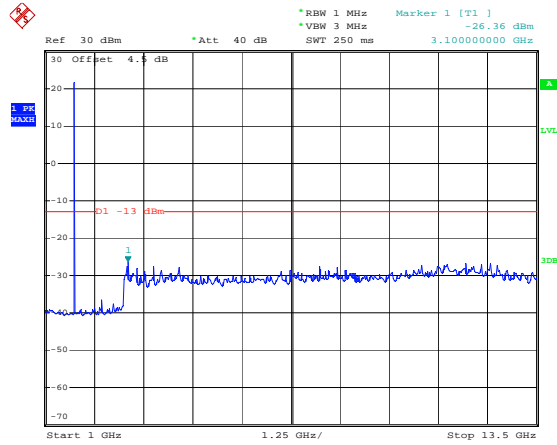
1.4M, QPSK, Middle Channel



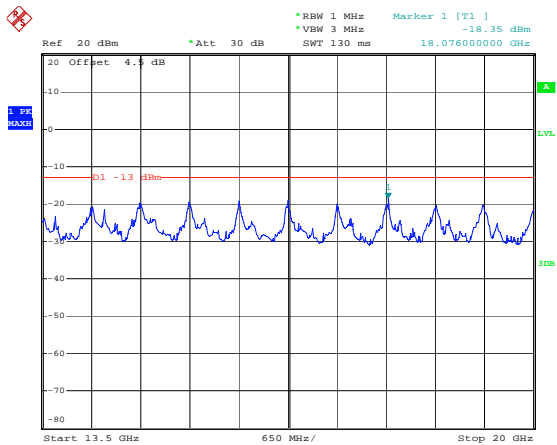
Date: 7.DEC.2020 11:24:47



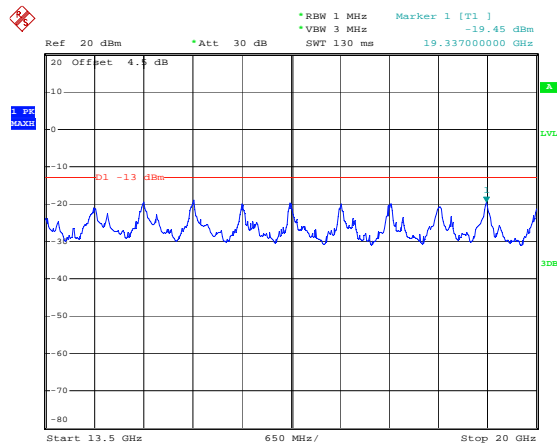
Date: 7.DEC.2020 11:24:17



Date: 7.DEC.2020 11:25:00

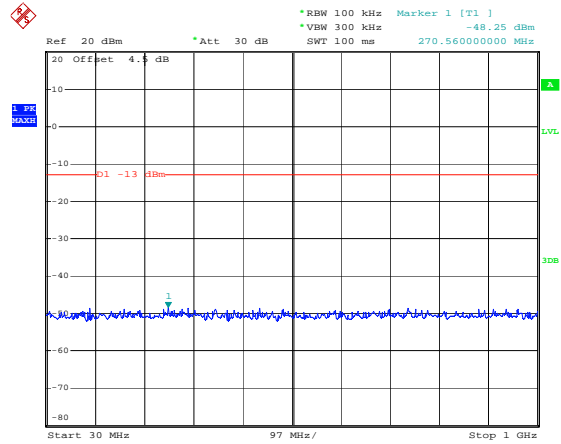


Date: 7.DEC.2020 11:24:30



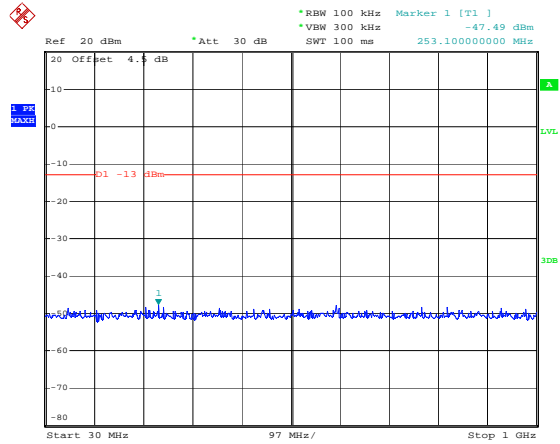
Date: 7.DEC.2020 11:25:13

### 1.4M, QPSK, High Channel

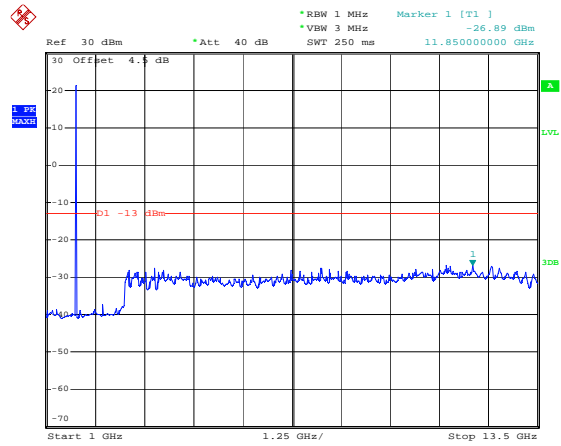


Date: 7.DEC.2020 11:25:33

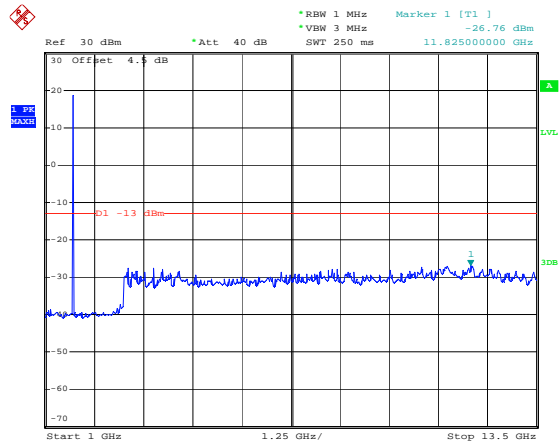
### 3M, QPSK, Low Channel



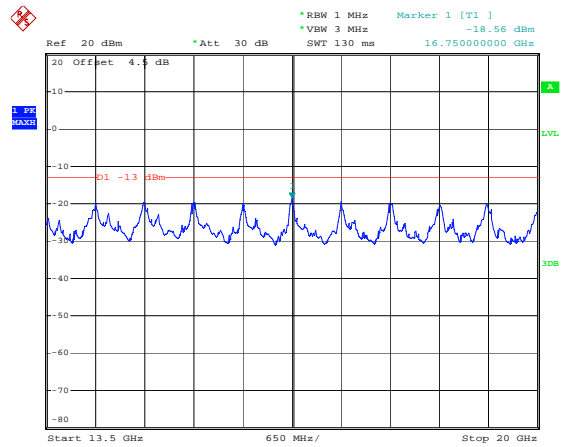
Date: 7.DEC.2020 11:26:46



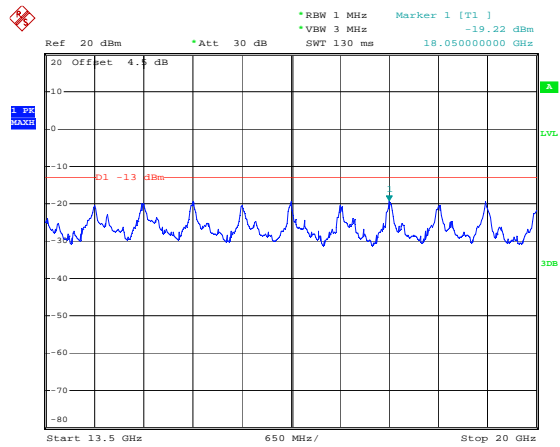
Date: 7.DEC.2020 11:25:46



Date: 7.DEC.2020 11:26:59

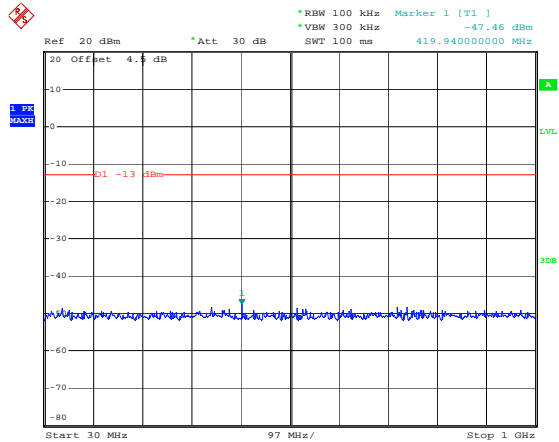


Date: 7.DEC.2020 11:25:59



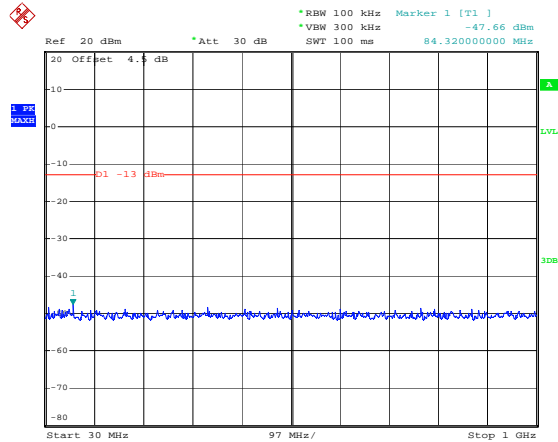
Date: 7.DEC.2020 11:27:12

**3M, QPSK, Middle Channel**

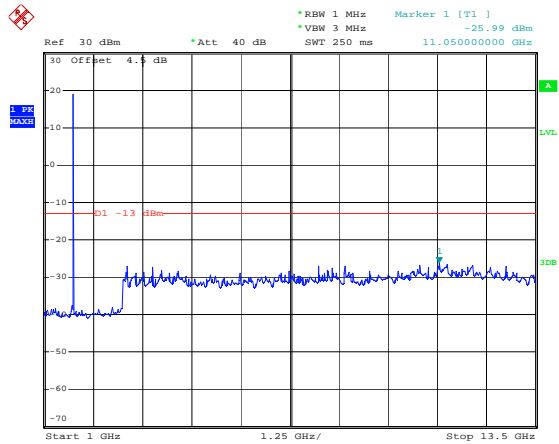


Date: 7.DEC.2020 11:27:33

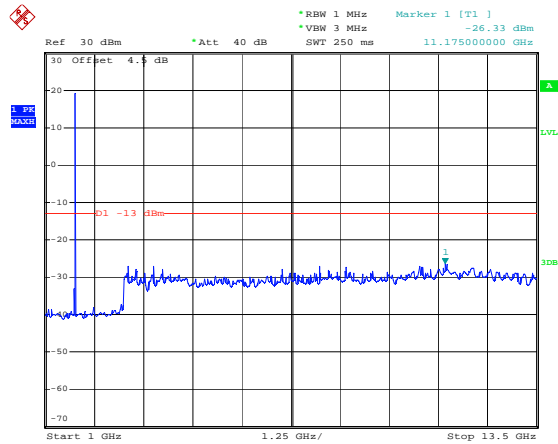
**3M, QPSK, High Channel**



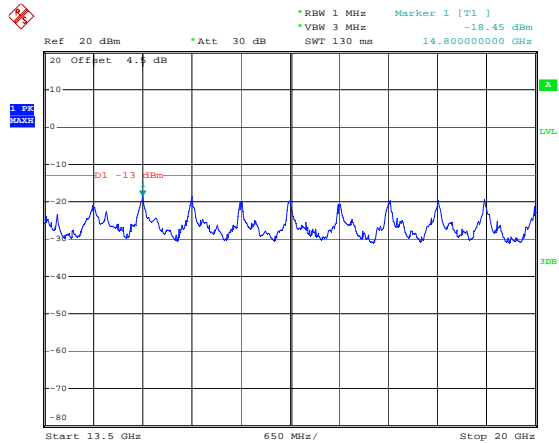
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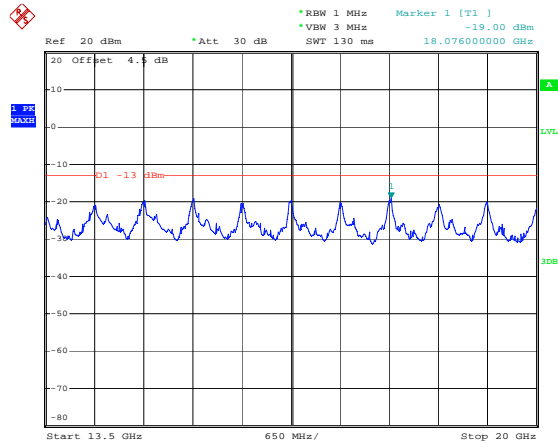
Date: 7.DEC.2020 11:27:46



Date: 7.DEC.2020 11:28:32

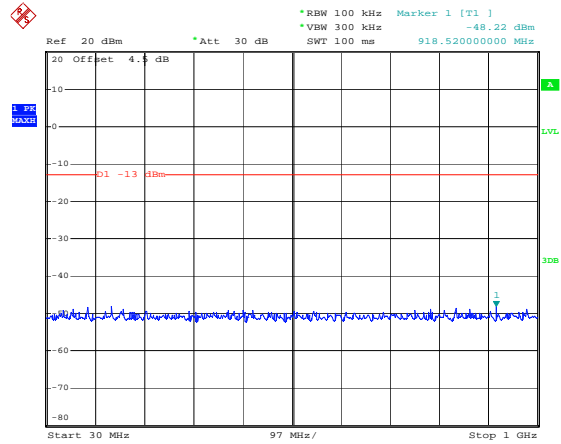


Date: 7.DEC.2020 11:27:59



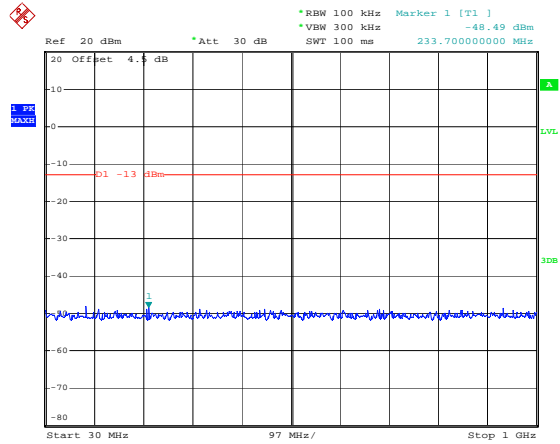
Date: 7.DEC.2020 11:28:45

### 5M, QPSK, Low Channel

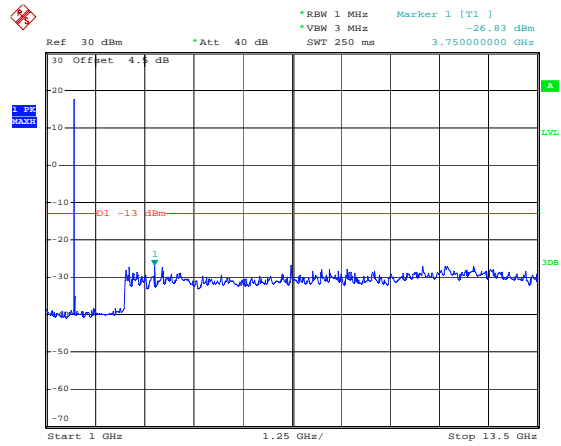


Date: 7.DEC.2020 11:29:27

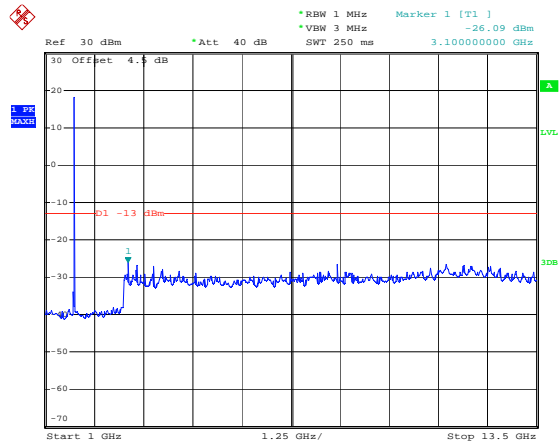
### 5M, QPSK, Middle Channel



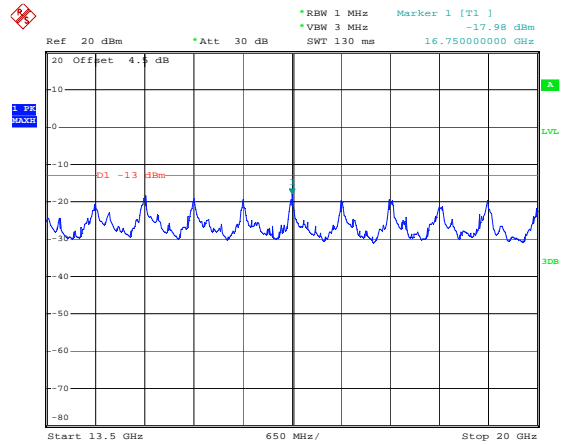
Date: 7.DEC.2020 11:30:14



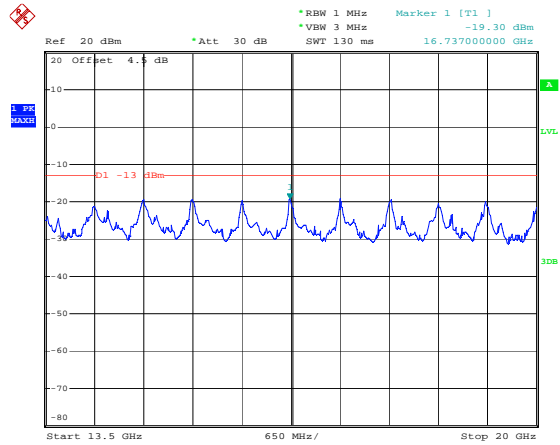
Date: 7.DEC.2020 11:29:40



Date: 7.DEC.2020 11:30:27

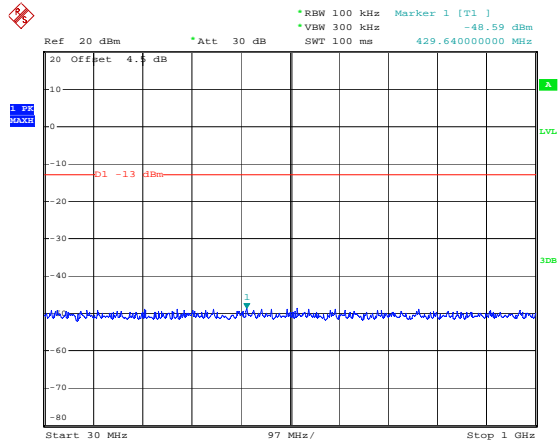


Date: 7.DEC.2020 11:29:53



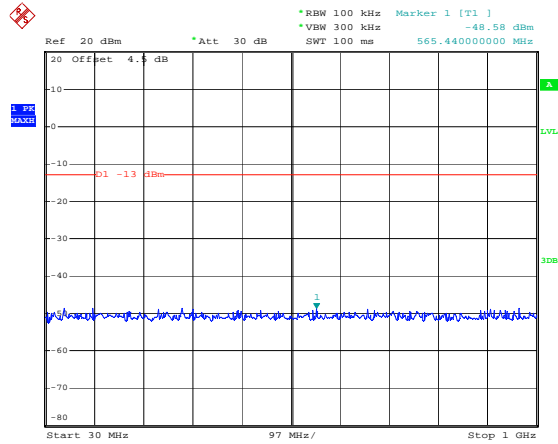
Date: 7.DEC.2020 11:30:40

### 5M, QPSK, High Channel

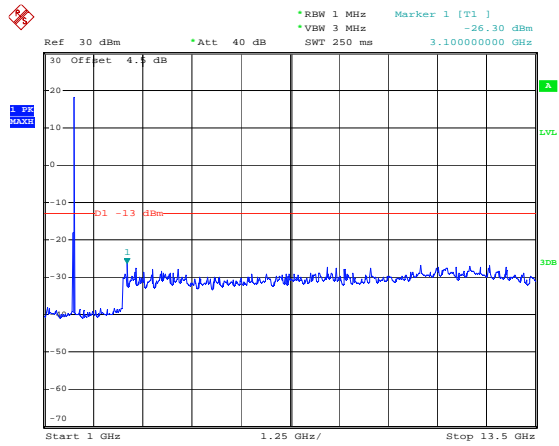


Date: 7.DEC.2020 11:31:00

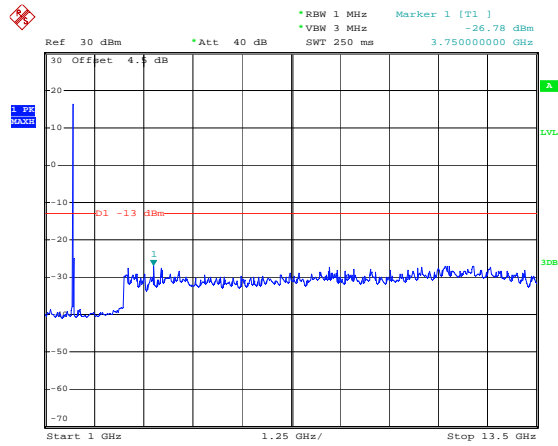
### 10M, QPSK, Low Channel



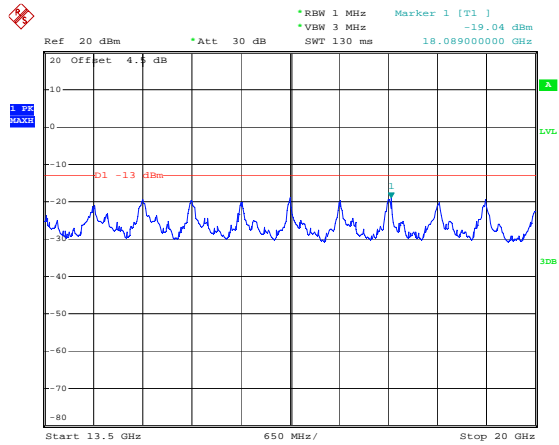
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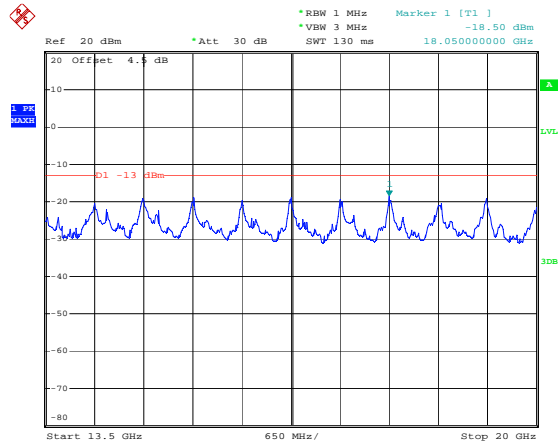
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Date: 7.DEC.2020 11:32:23



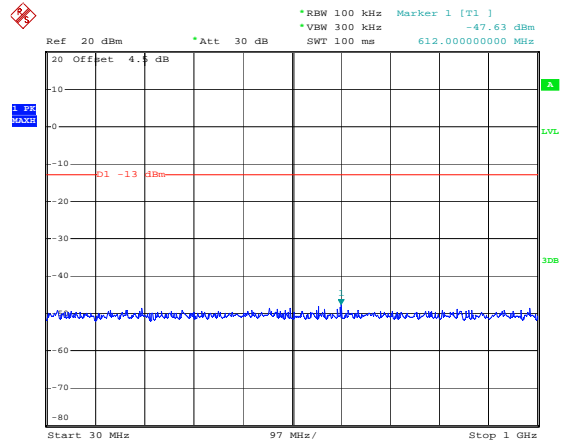
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Date: 7.DEC.2020 11:32:36

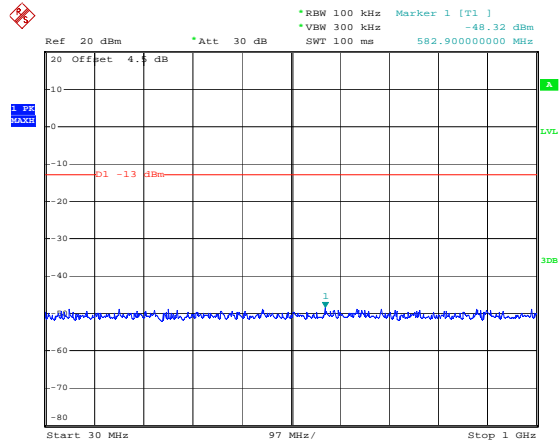


### 10M, QPSK, Middle Channel

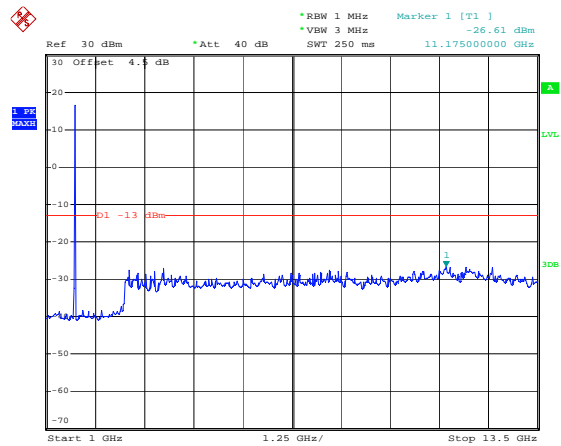


Date: 7.DEC.2020 11:32:58

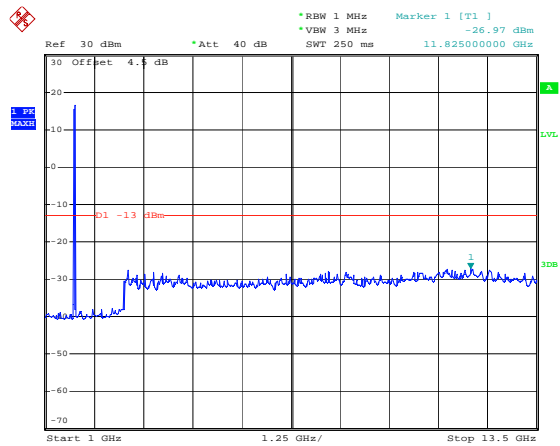
### 10M, QPSK, High Channel



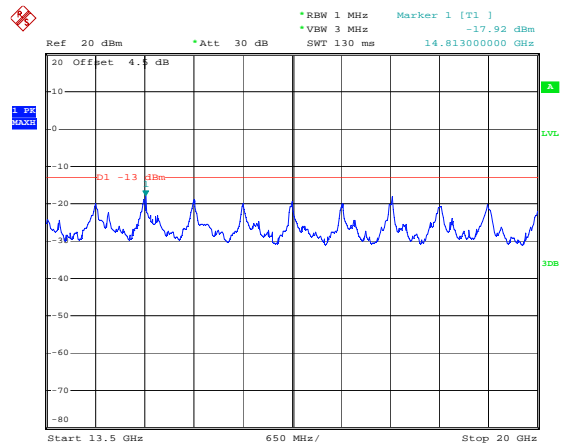
Date: 7.DEC.2020 11:33:45



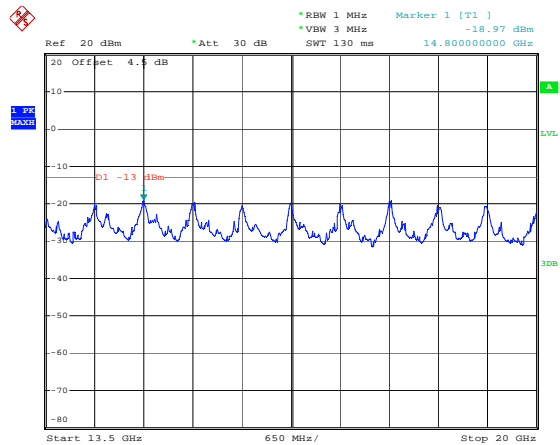
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Date: 7.DEC.2020 11:33:58

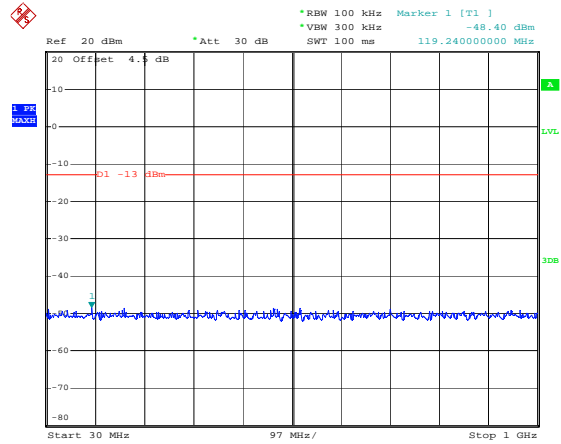


Date: 7.DEC.2020 11:33:24



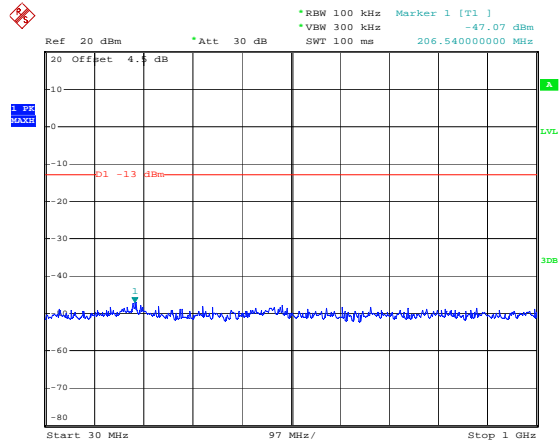
Date: 7.DEC.2020 11:34:11

### 15M, QPSK, Low Channel

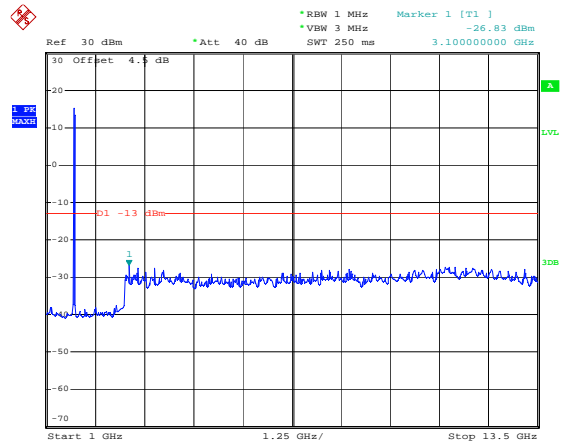


Date: 7.DEC.2020 11:35:01

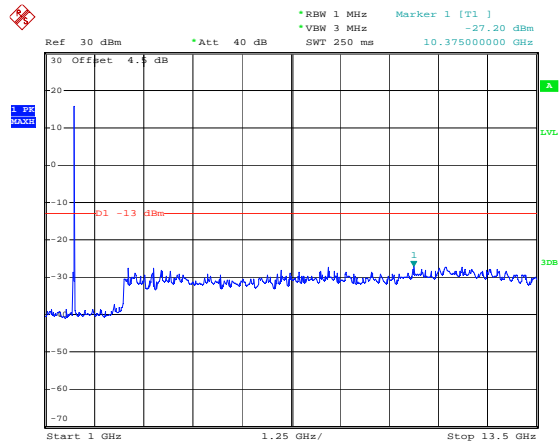
### 15M, QPSK, Middle Channel



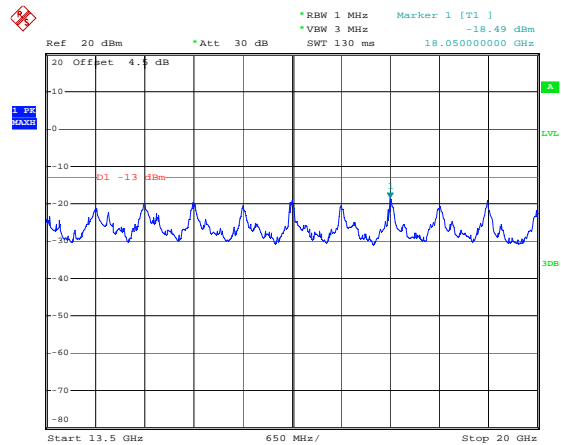
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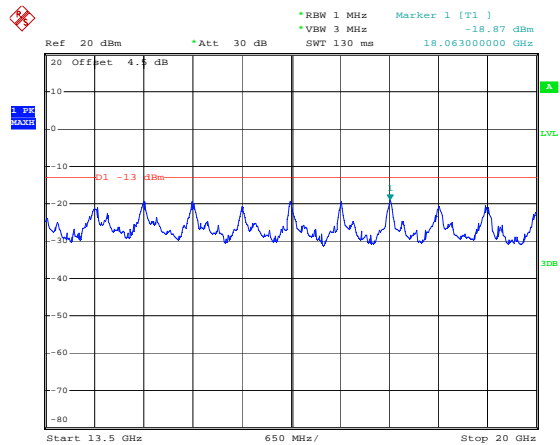
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Date: 7.DEC.2020 11:36:01

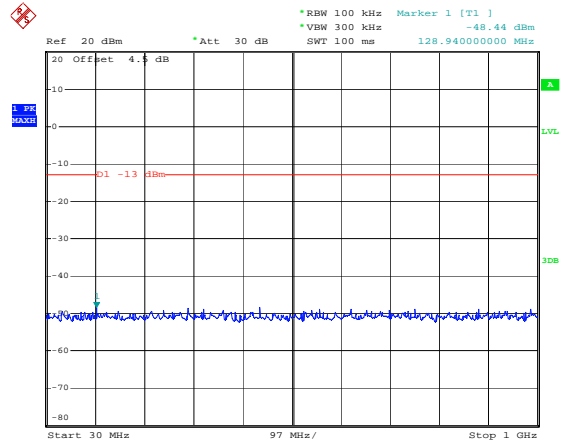


Date: 7.DEC.2020 11:35:27



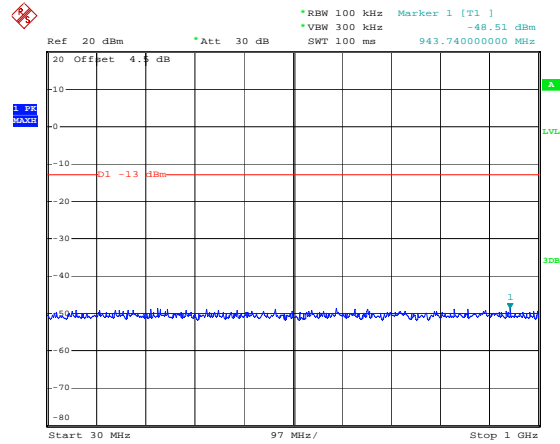
Date: 7.DEC.2020 11:36:14

### 15M, QPSK, High Channel

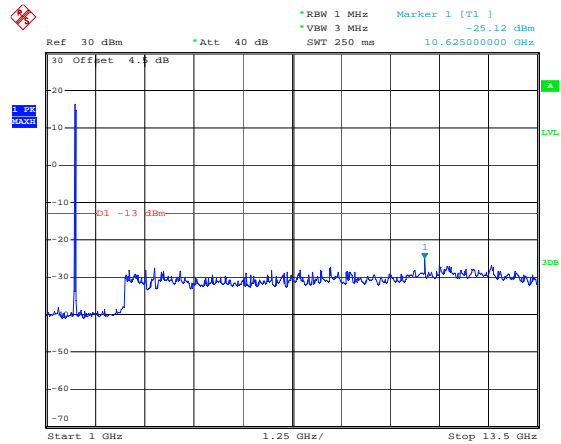


Date: 7.DEC.2020 11:36:35

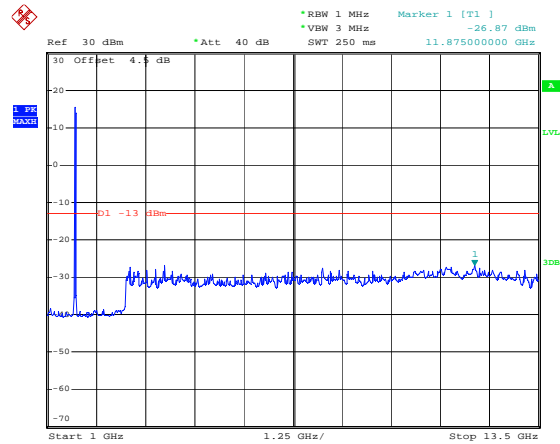
### 20M, QPSK, Low Channel



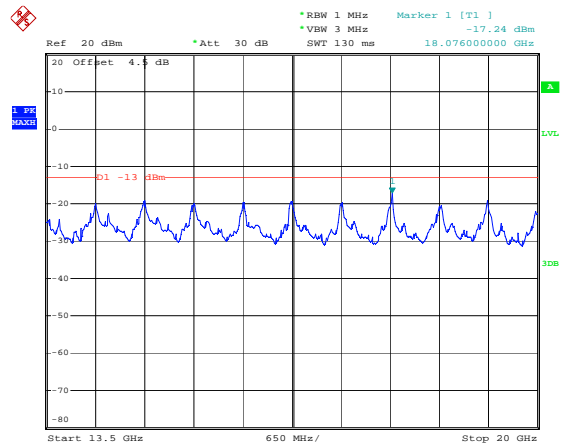
Date: 7.DEC.2020 11:37:26



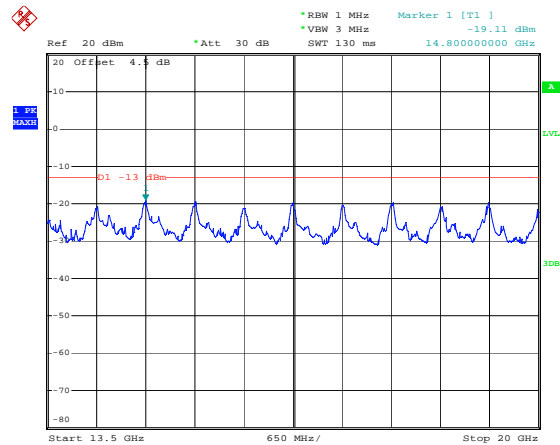
Date: 7.DEC.2020 11:36:47



Date: 7.DEC.2020 11:37:39

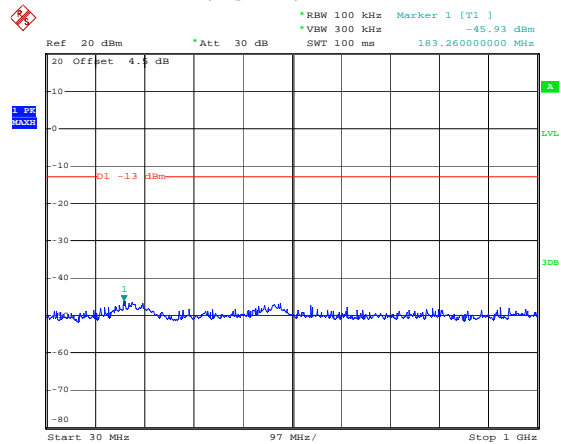


Date: 7.DEC.2020 11:37:00



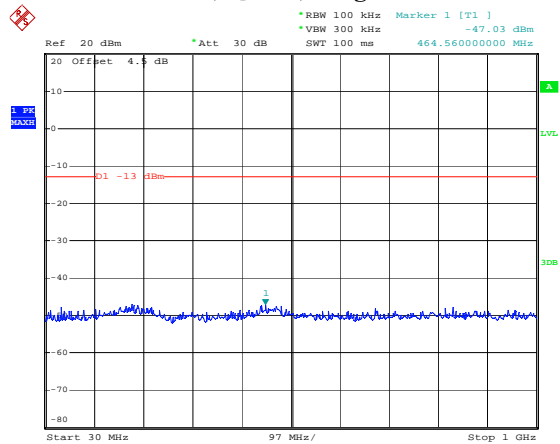
Date: 7.DEC.2020 11:37:52

### 20M, QPSK, Middle Channel

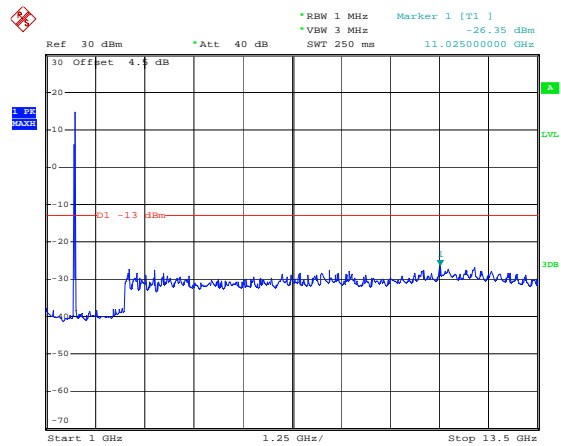


Date: 7.DEC.2020 11:38:16

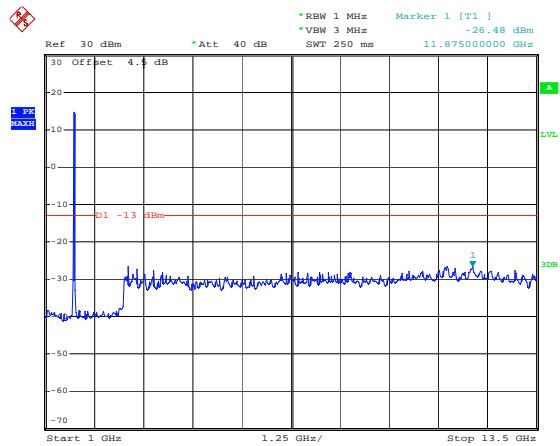
### 20M, QPSK, High Channel



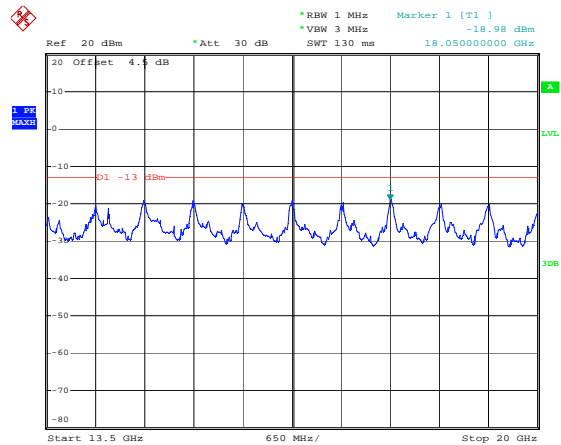
Date: 7.DEC.2020 11:39:05



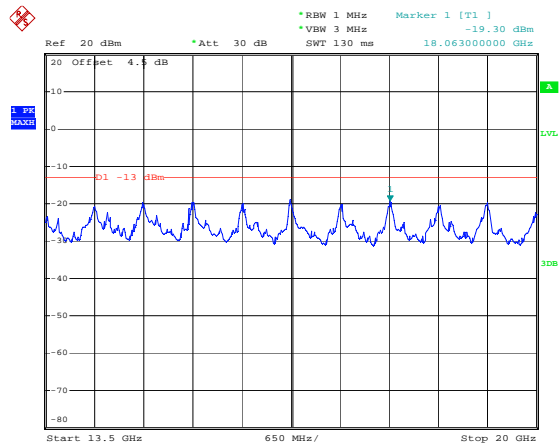
Date: 7.DEC.2020 11:38:29



Date: 7.DEC.2020 11:39:21



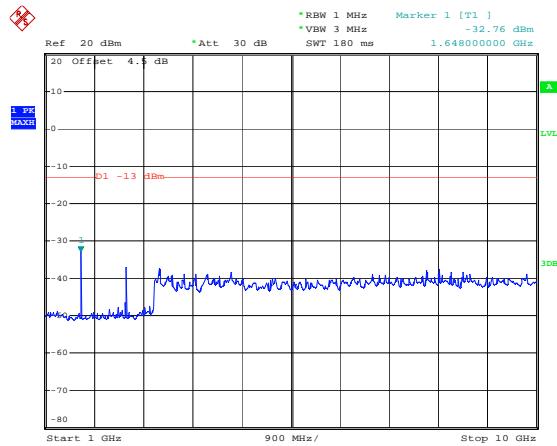
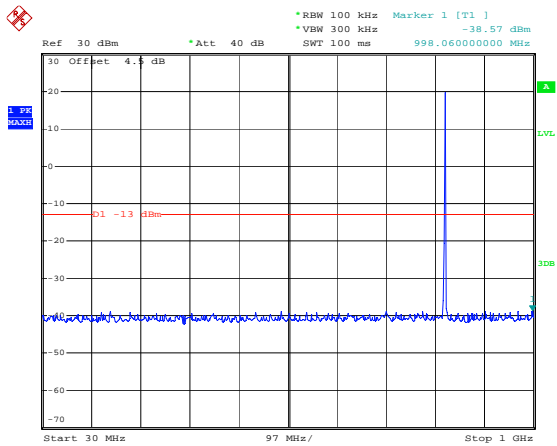
Date: 7.DEC.2020 11:38:42



Date: 7.DEC.2020 11:39:34

LTE Band 5:

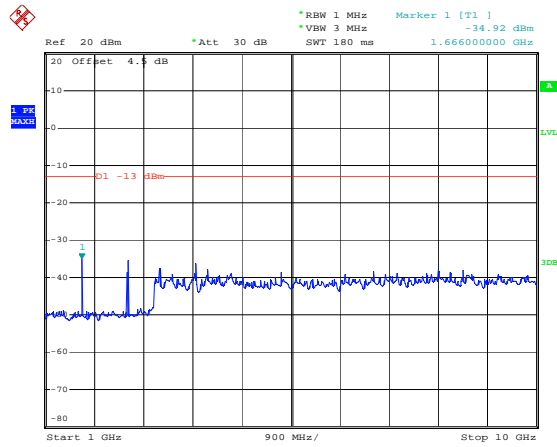
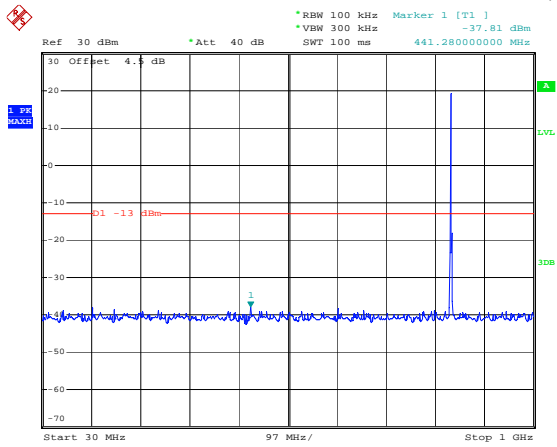
1.4M, QPSK, Low Channel



Date: 7.DEC.2020 11:40:12

Date: 7.DEC.2020 11:40:24

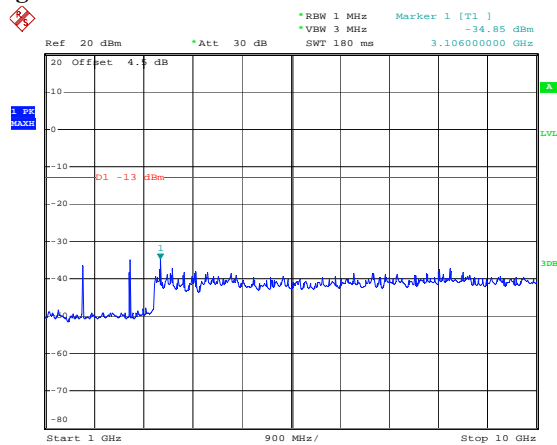
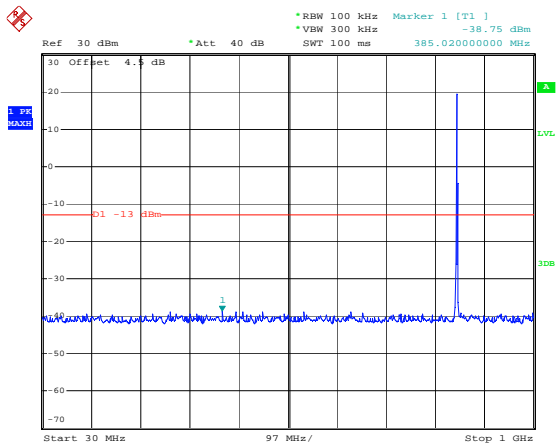
1.4M, QPSK, Middle Channel



Date: 7.DEC.2020 11:40:42

Date: 7.DEC.2020 11:40:55

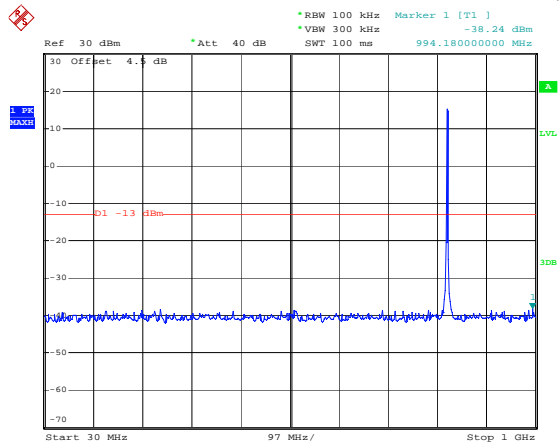
1.4M, QPSK, High Channel



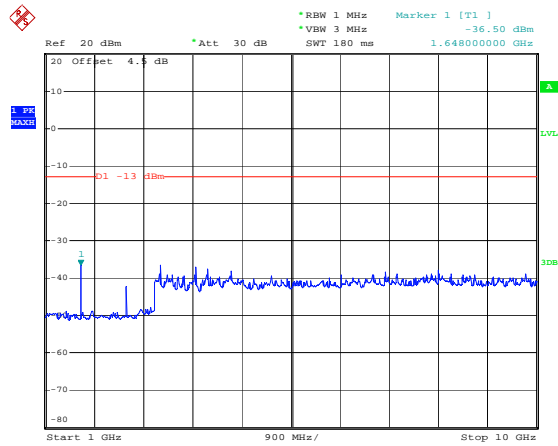
Date: 7.DEC.2020 11:41:12

Date: 7.DEC.2020 11:41:28

### 3M, QPSK, Low Channel

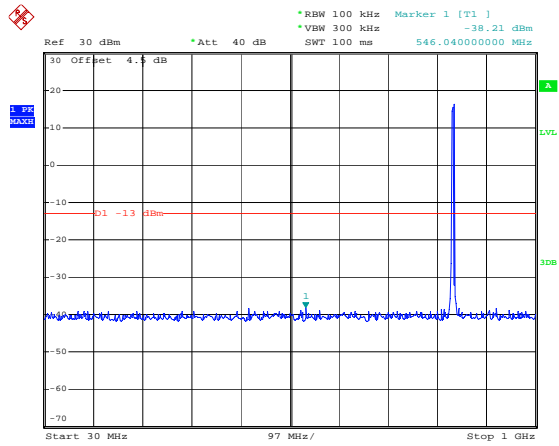


Date: 7.DEC.2020 11:43:40

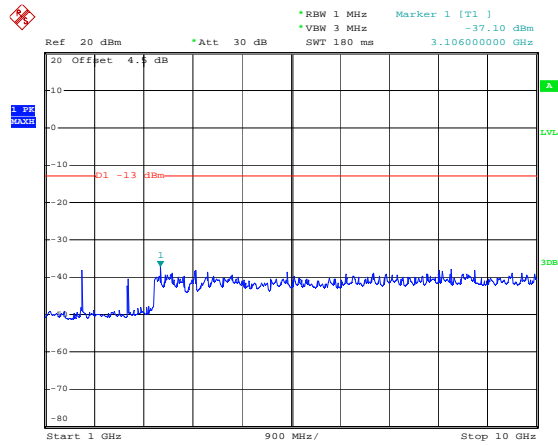


Date: 7.DEC.2020 11:43:53

### 3M, QPSK, Middle Channel

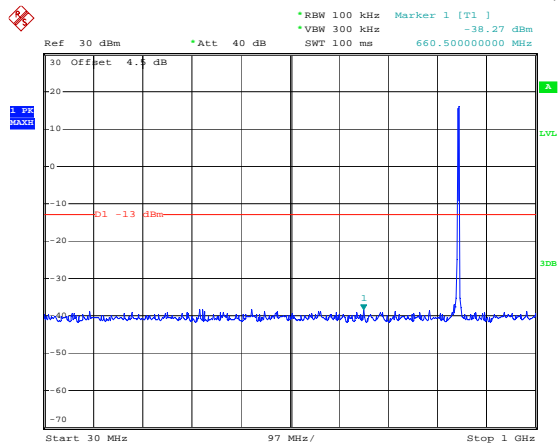


Date: 7.DEC.2020 11:44:13

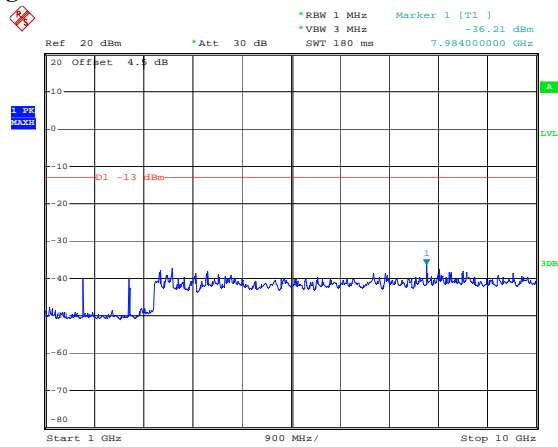


Date: 7.DEC.2020 11:44:26

### 3M, QPSK, High Channel



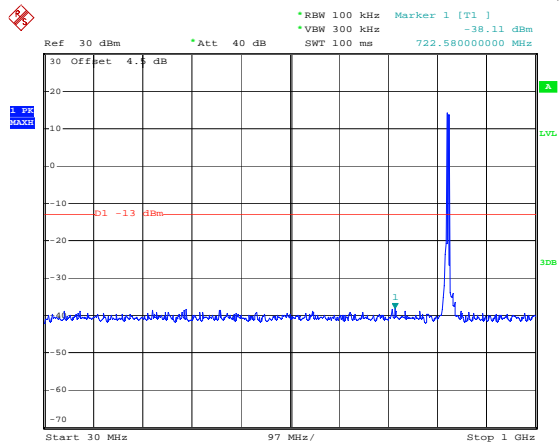
Date: 7.DEC.2020 11:44:47



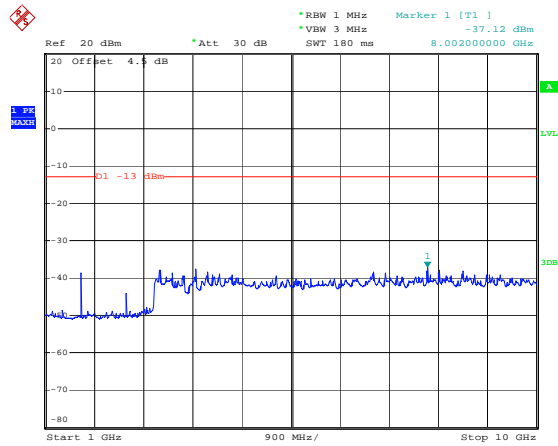
Date: 7.DEC.2020 11:45:00



### 5M, QPSK, Low Channel

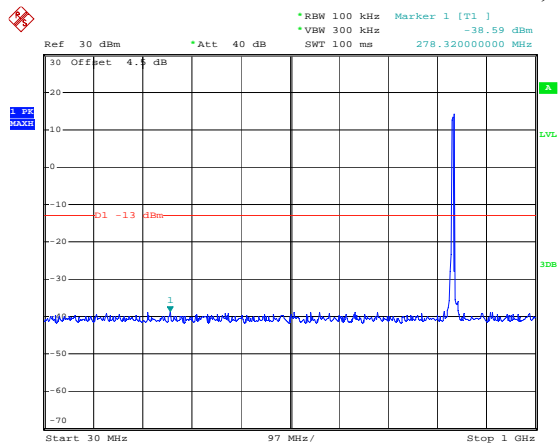


Date: 7.DEC.2020 11:45:42

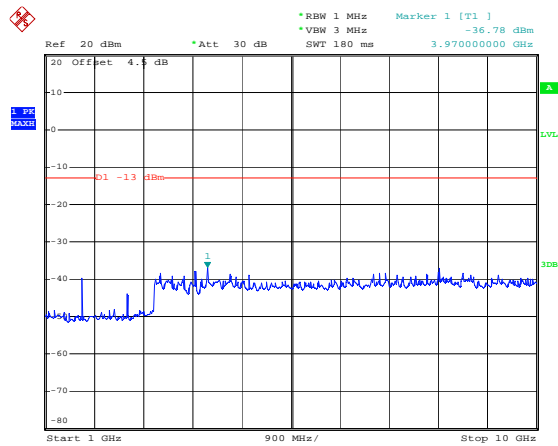


Date: 7.DEC.2020 11:45:55

### 5M, QPSK, Middle Channel

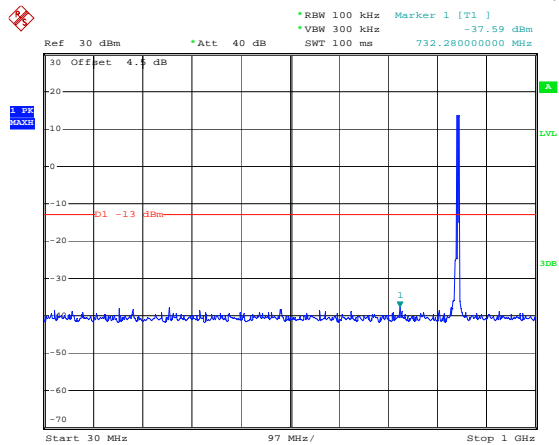


Date: 7.DEC.2020 11:46:16

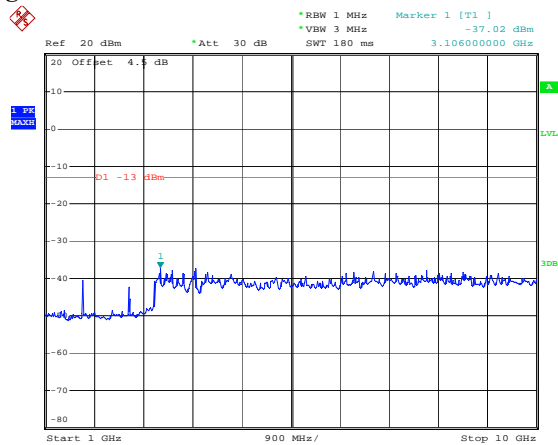


Date: 7.DEC.2020 11:46:29

### 5M, QPSK, High Channel

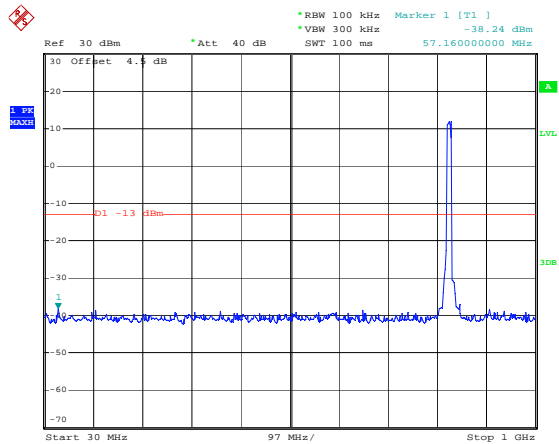


Date: 7.DEC.2020 11:46:50

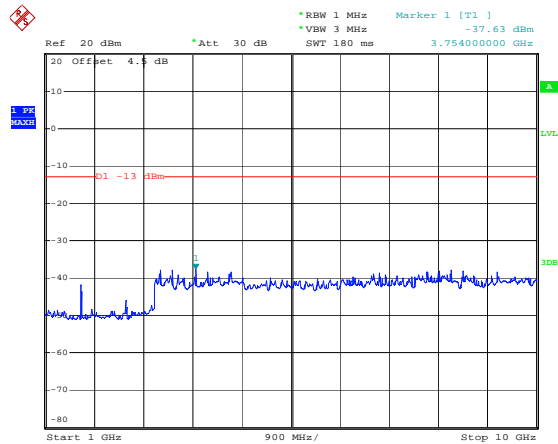


Date: 7.DEC.2020 11:47:06

### 10M, QPSK, Low Channel

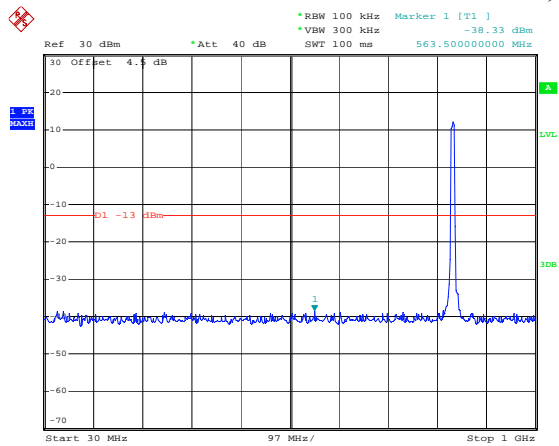


Date: 7.DEC.2020 11:47:44

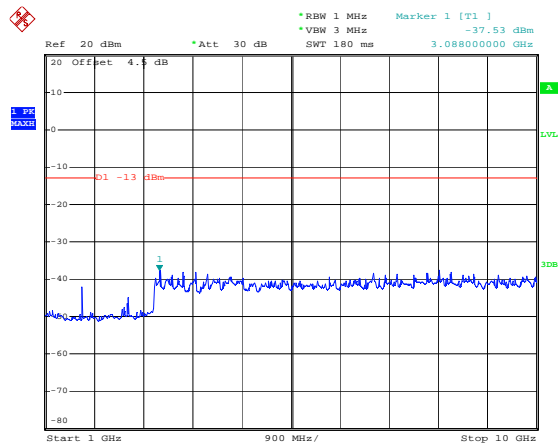


Date: 7.DEC.2020 11:47:57

### 10M, QPSK, Middle Channel

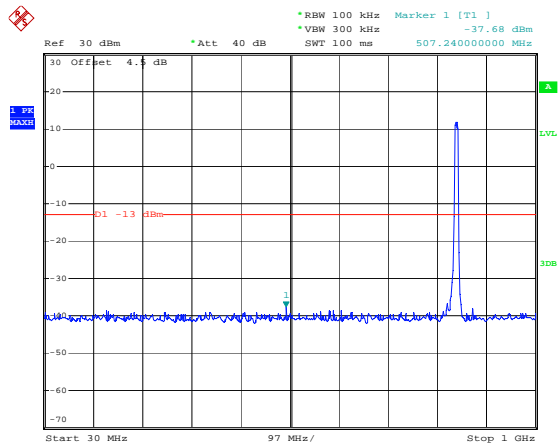


Date: 7.DEC.2020 11:48:16

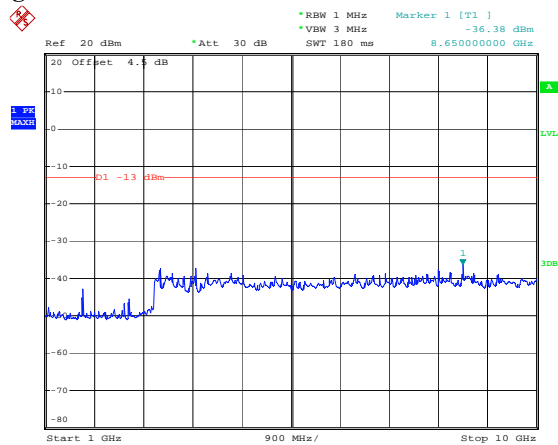


Date: 7.DEC.2020 11:48:29

### 10M, QPSK, High Channel



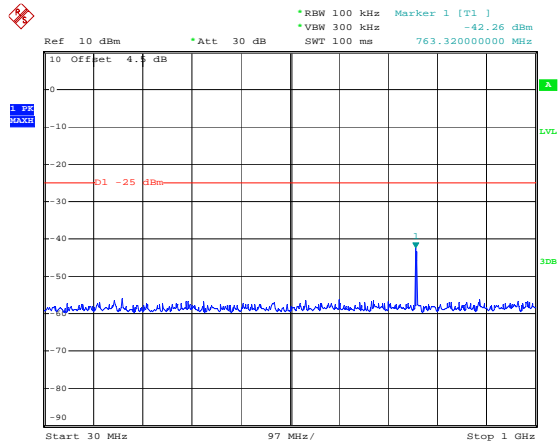
Date: 7.DEC.2020 11:48:51



Date: 7.DEC.2020 11:49:04

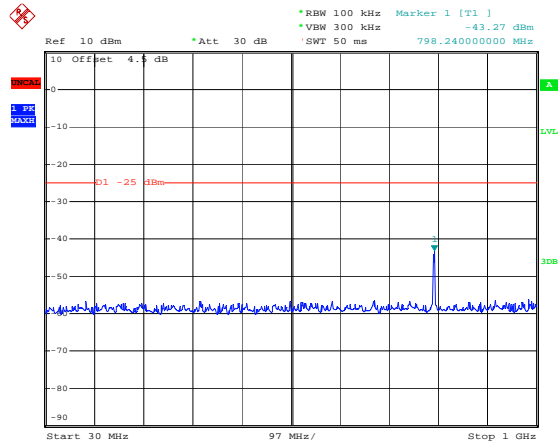
LTE Band 7:

5M, QPSK, Low Channel

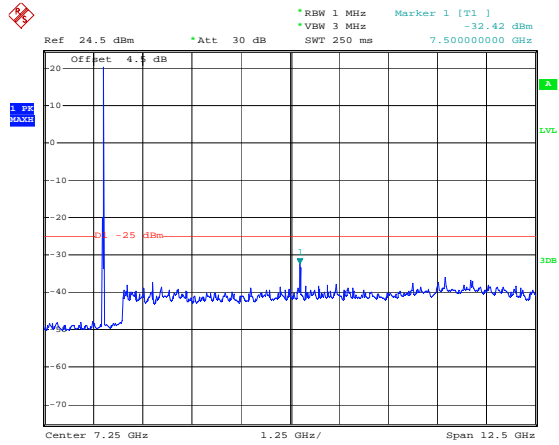


Date: 7.DEC.2020 12:08:42

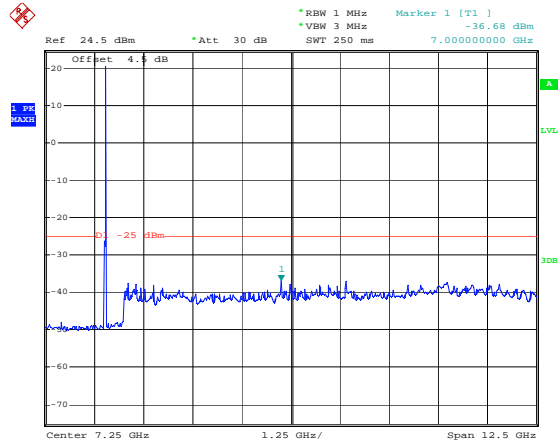
5M, QPSK, Middle Channel



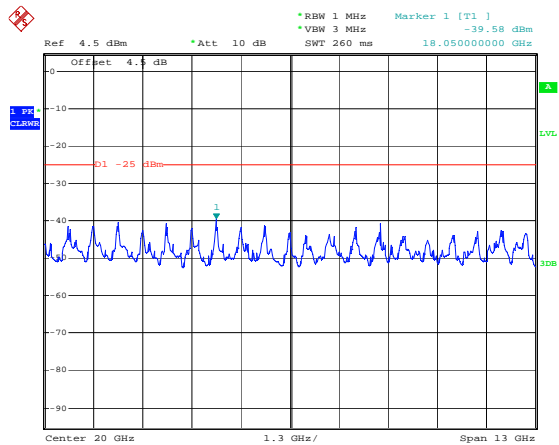
Date: 7.DEC.2020 18:17:10



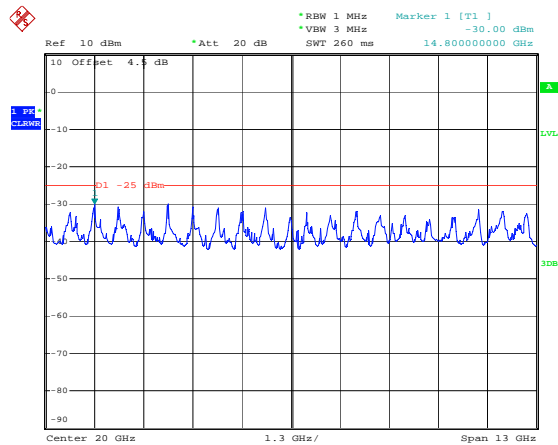
Date: 7.DEC.2020 12:09:40



Date: 7.DEC.2020 18:17:39

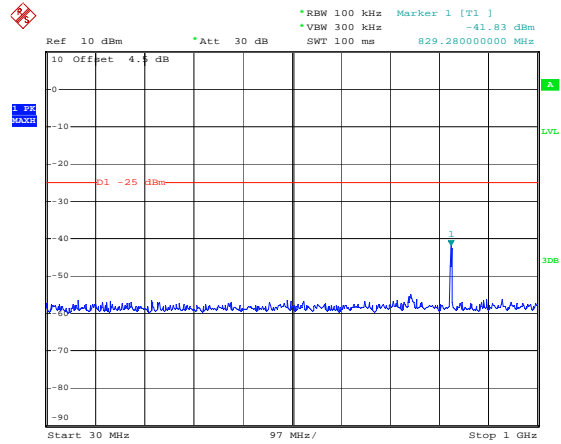


Date: 7.DEC.2020 12:10:25



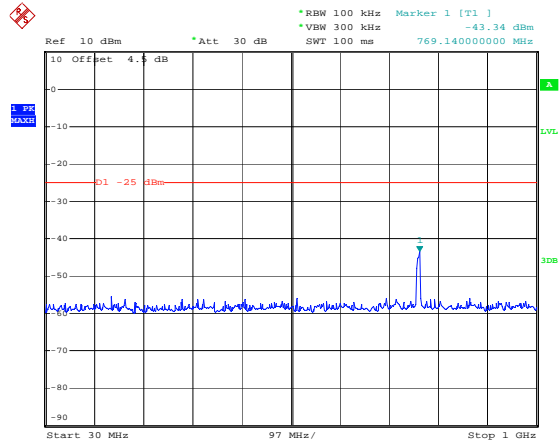
Date: 7.DEC.2020 18:18:02

### 5M, QPSK, High Channel

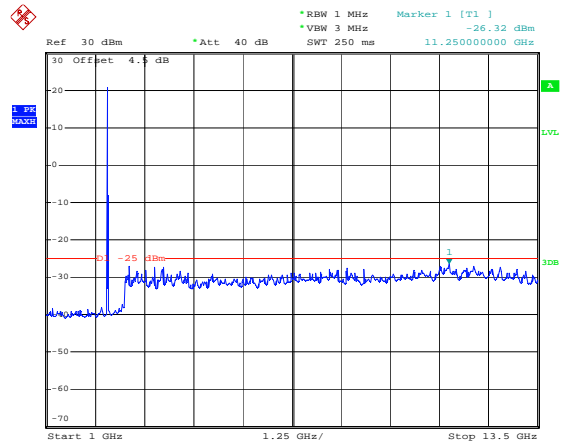


Date: 7.DEC.2020 18:18:41

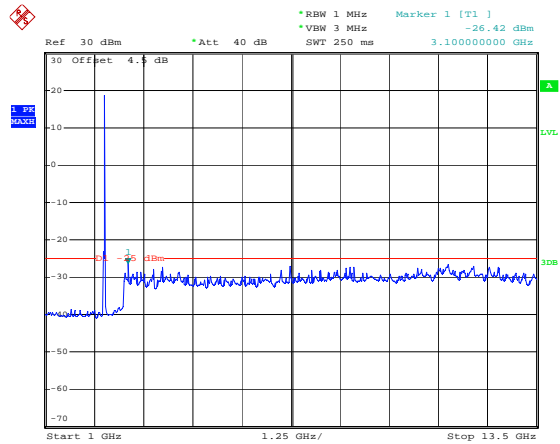
### 10M, QPSK, Low Channel



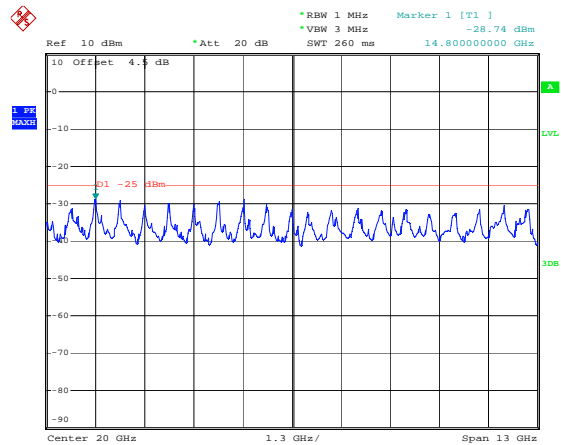
Date: 7.DEC.2020 18:21:47



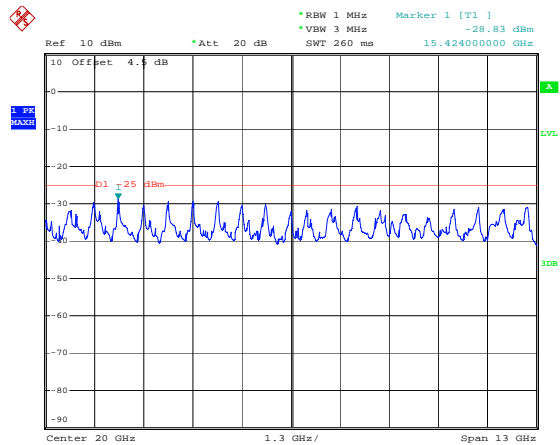
Date: 7.DEC.2020 18:18:53



Date: 7.DEC.2020 18:22:00

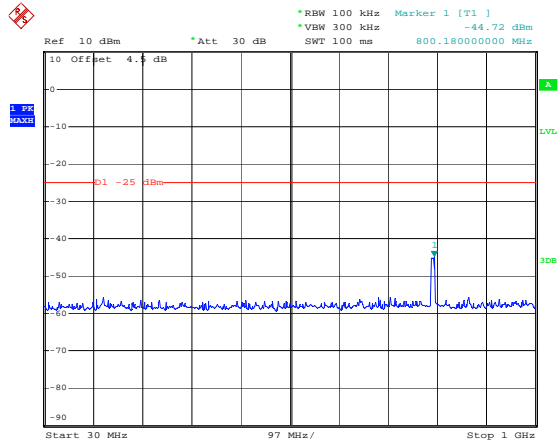


Date: 7.DEC.2020 18:21:22



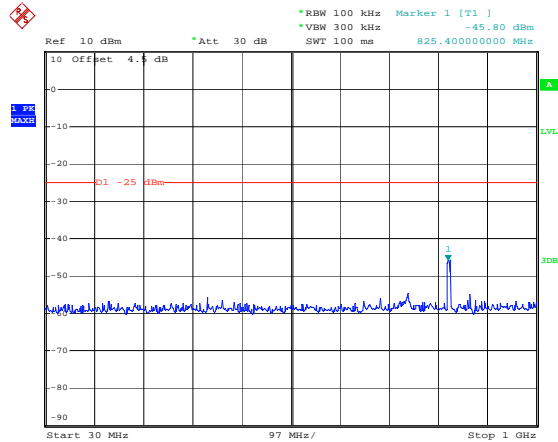
Date: 7.DEC.2020 18:22:37

### 10M, QPSK, Middle Channel

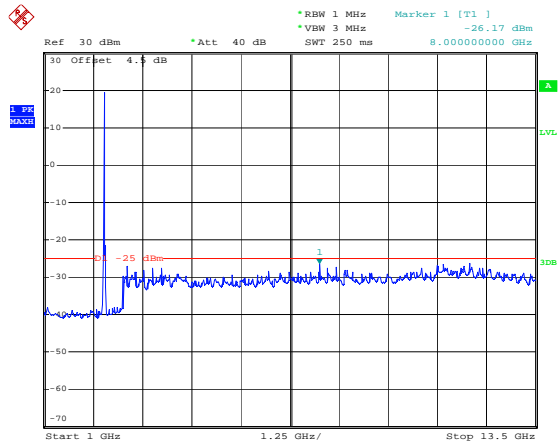


Date: 7.DEC.2020 18:23:10

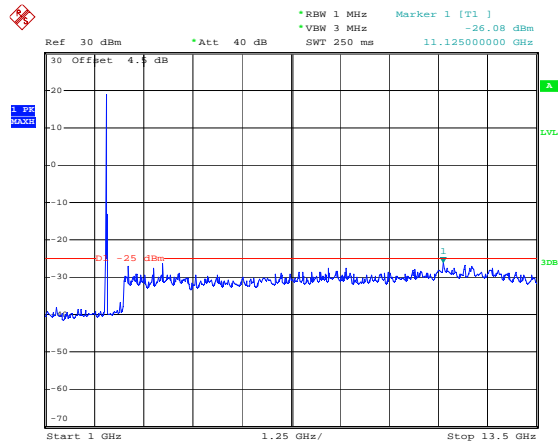
### 10M, QPSK, High Channel



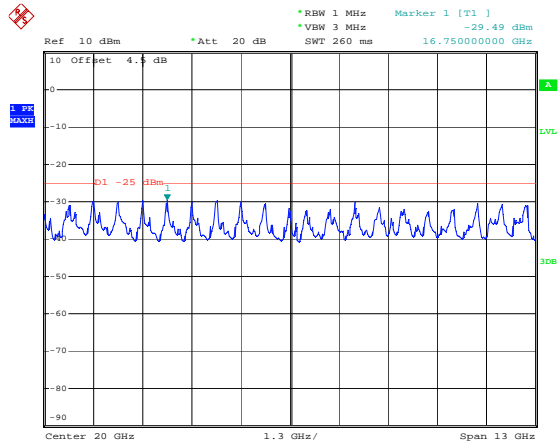
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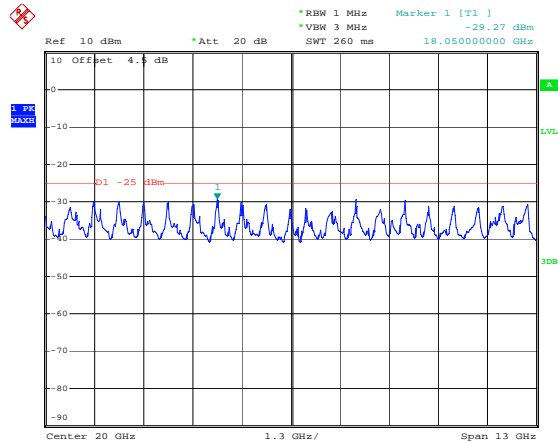
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Date: 7.DEC.2020 18:25:29

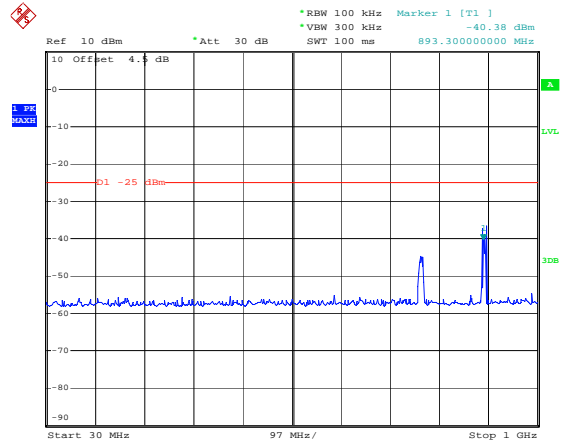


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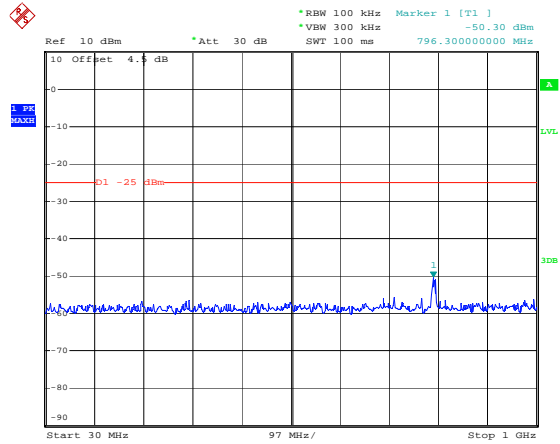
Date: 7.DEC.2020 18:25:54

### 15M, QPSK, Low Channel

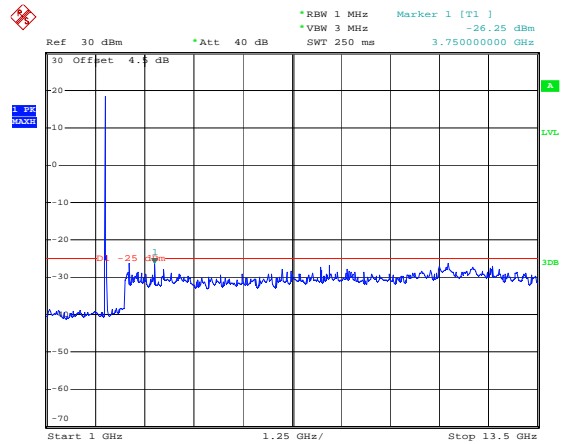


Date: 7.DEC.2020 18:28:04

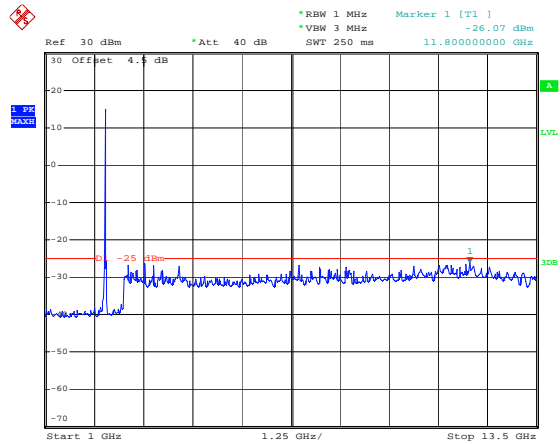
### 15M, QPSK, Middle Channel



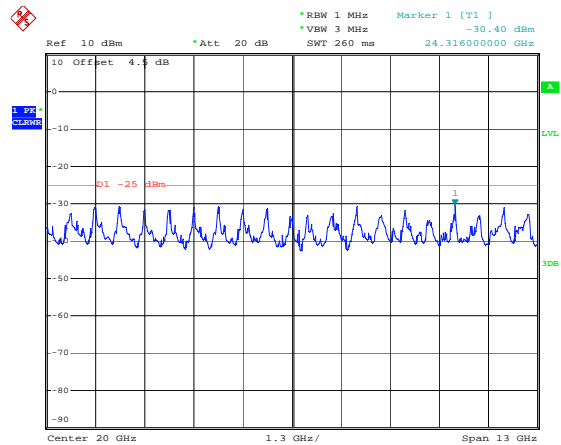
Date: 8.DEC.2020 12:38:07



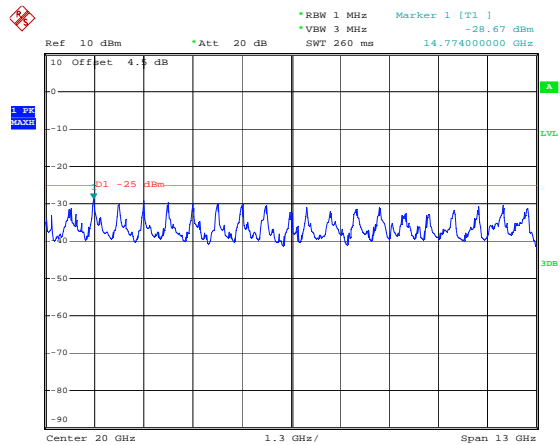
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Date: 8.DEC.2020 12:38:20

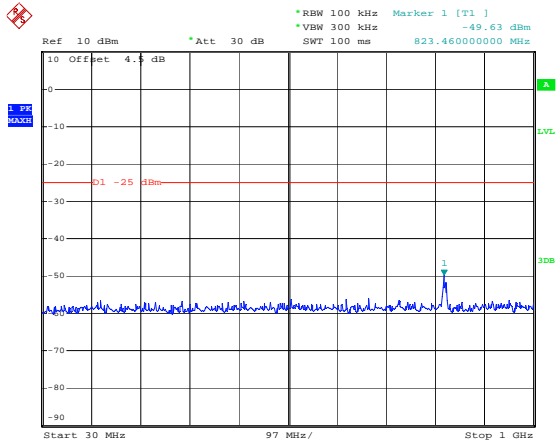


Date: 7.DEC.2020 18:28:42



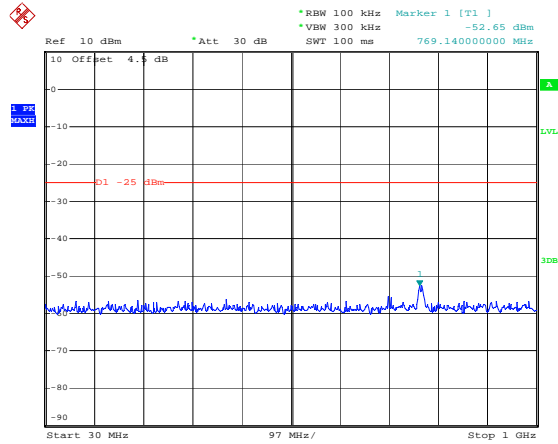
Date: 8.DEC.2020 12:38:46

### 15M, QPSK, High Channel

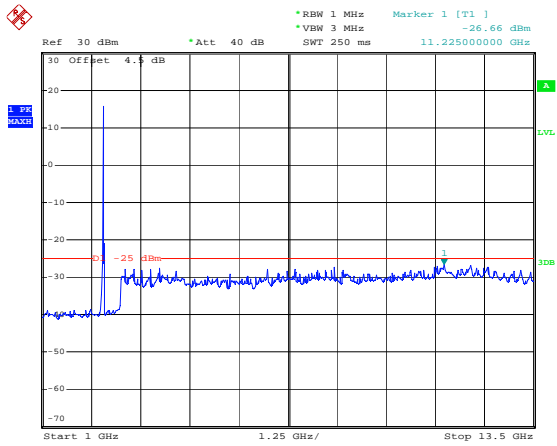


Date: 8.DEC.2020 12:39:06

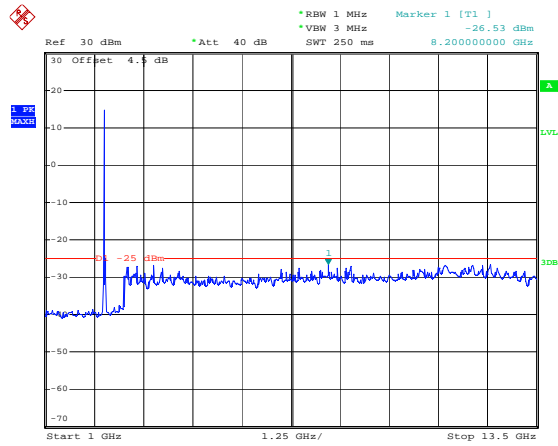
### 20M, QPSK, Low Channel



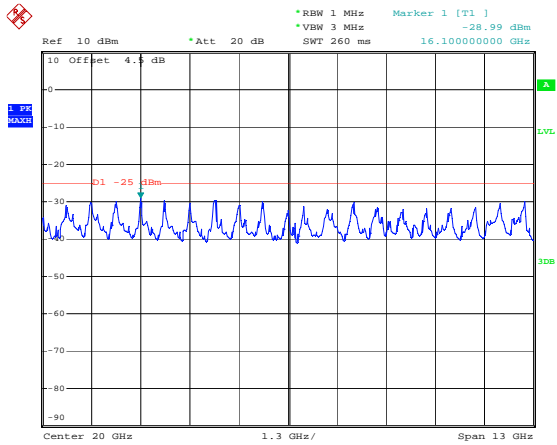
Date: 8.DEC.2020 12:40:08



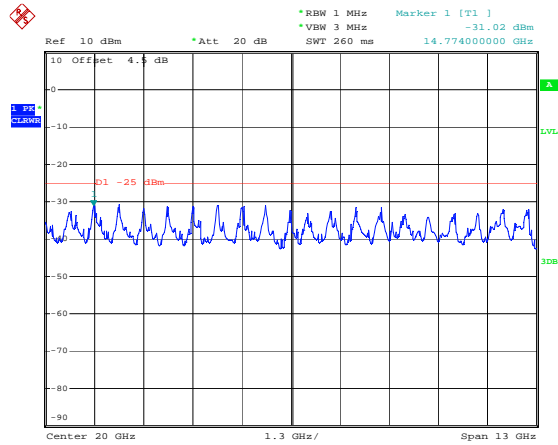
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Date: 8.DEC.2020 12:40:24

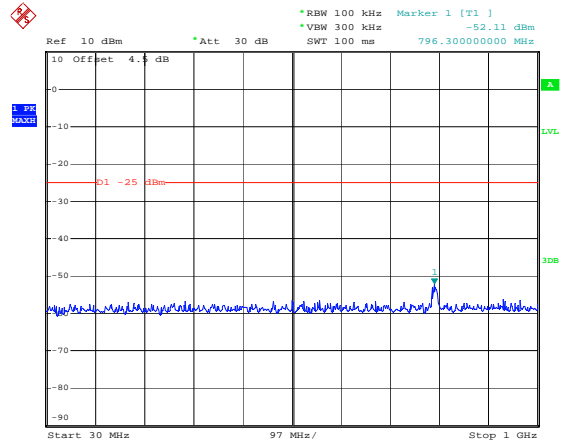


Date: 8.DEC.2020 12:39:45



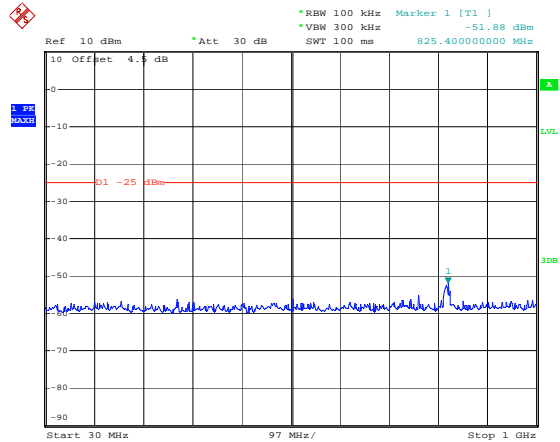
Date: 8.DEC.2020 12:40:48

### 20M, QPSK, Middle Channel

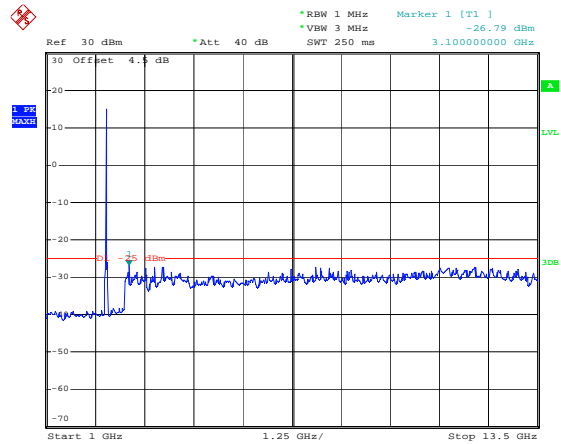


Date: 8.DEC.2020 12:41:09

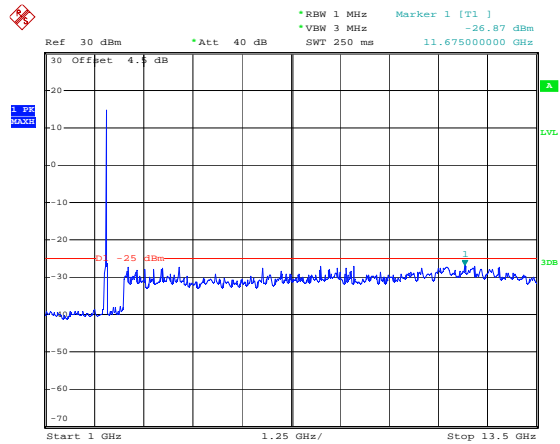
### 20M, QPSK, High Channel



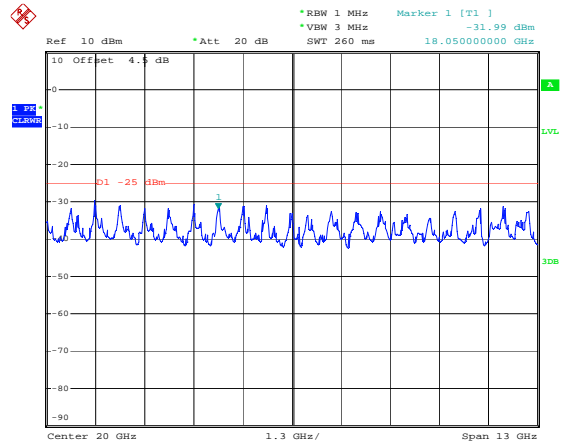
Date: 8.DEC.2020 12:42:07



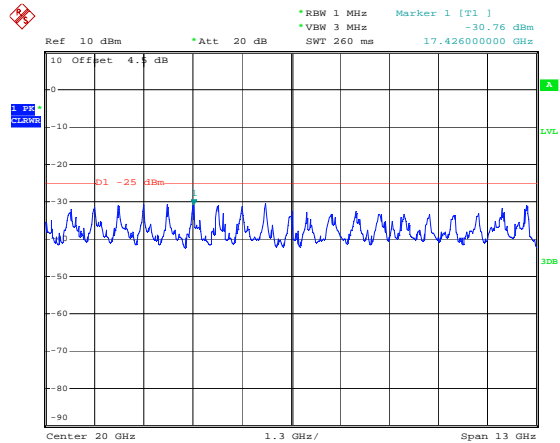
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Date: 8.DEC.2020 12:42:20



Date: 8.DEC.2020 12:41:43

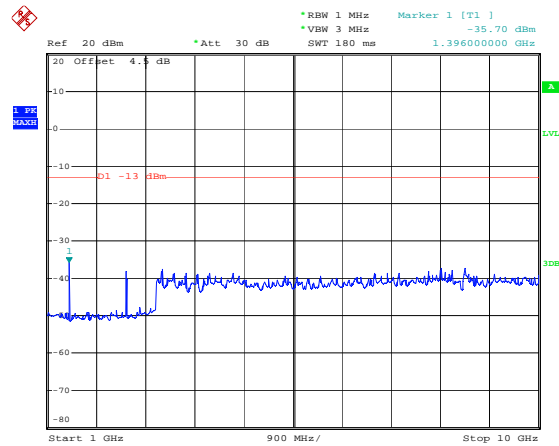
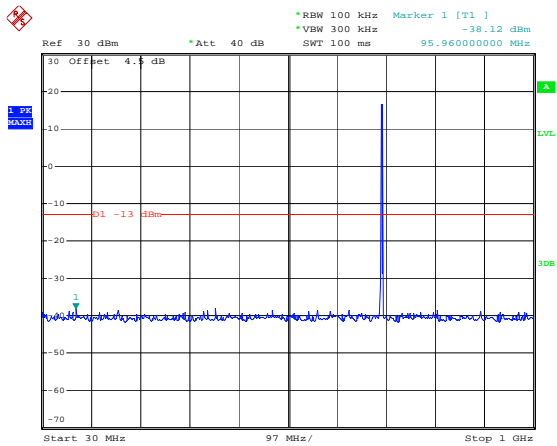


Date: 8.DEC.2020 12:42:51



LTE Band 12:

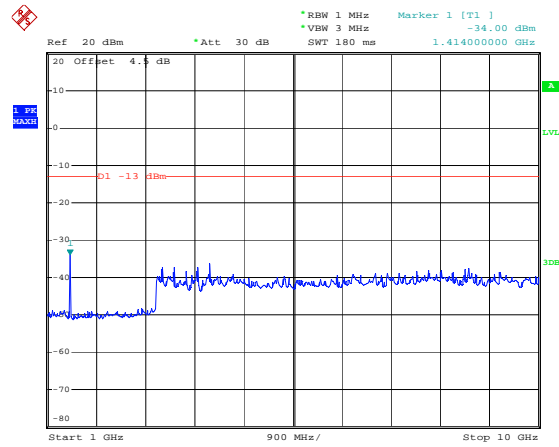
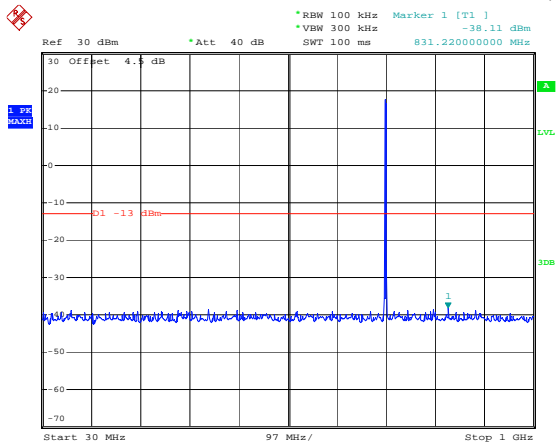
1.4M, QPSK, Low Channel



Date: 8.DEC.2020 12:50:10

Date: 8.DEC.2020 12:50:23

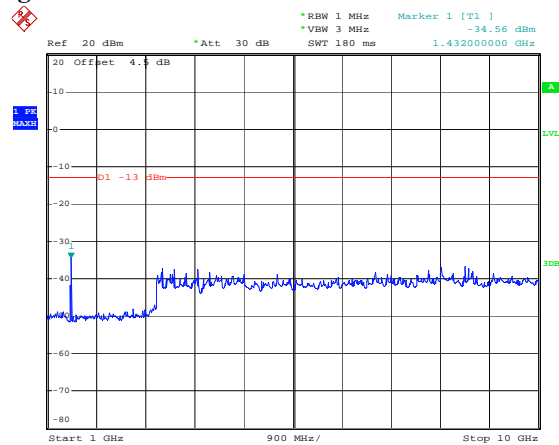
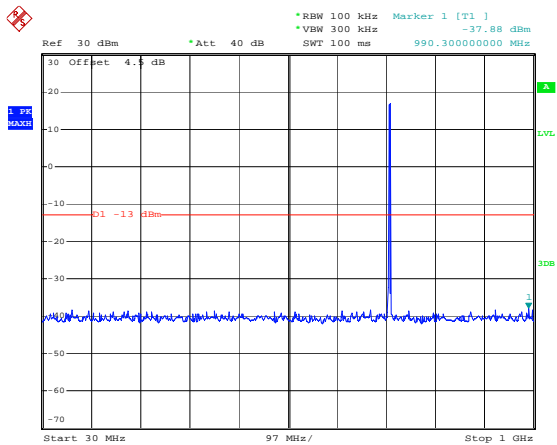
1.4M, QPSK, Middle Channel



Date: 8.DEC.2020 12:50:41

Date: 8.DEC.2020 12:50:53

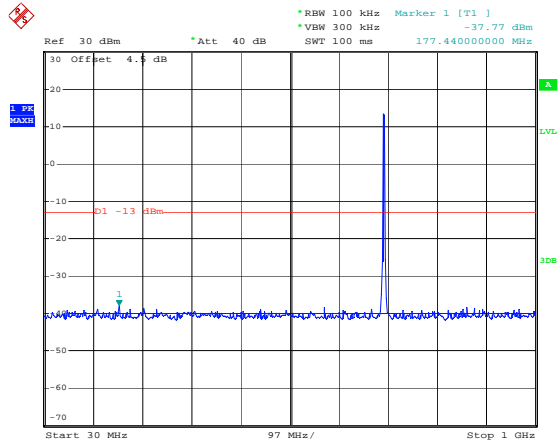
1.4M, QPSK, High Channel



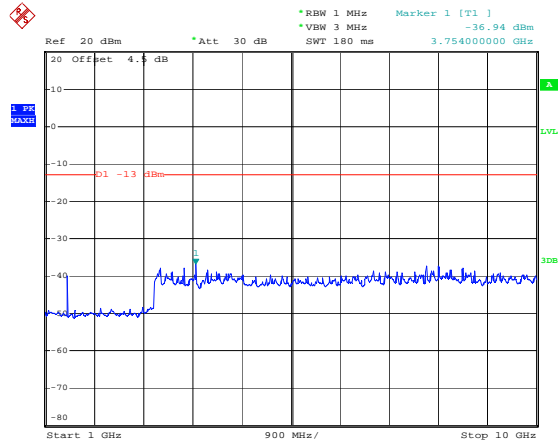
Date: 8.DEC.2020 12:51:14

Date: 8.DEC.2020 12:51:27

### 3M, QPSK, Low Channel

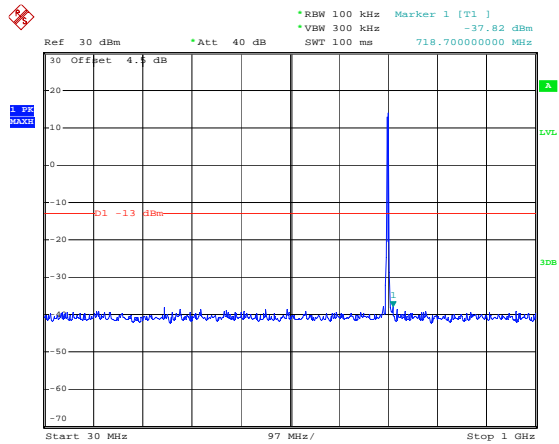


Date: 8.DEC.2020 12:51:50

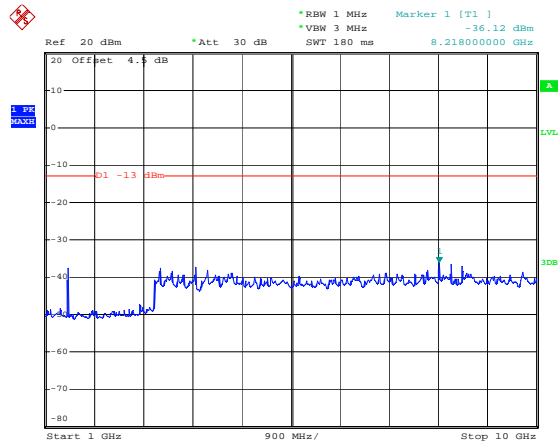


Date: 8.DEC.2020 12:52:03

### 3M, QPSK, Middle Channel

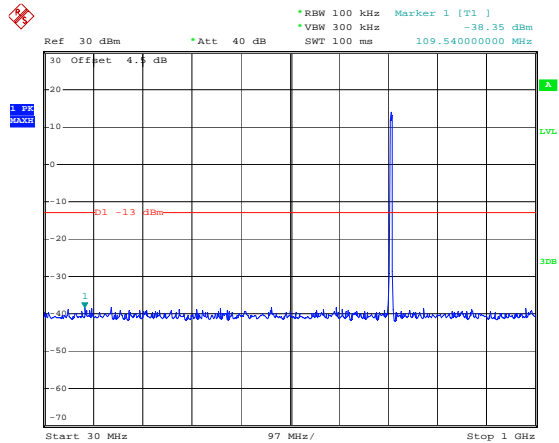


Date: 8.DEC.2020 12:52:20

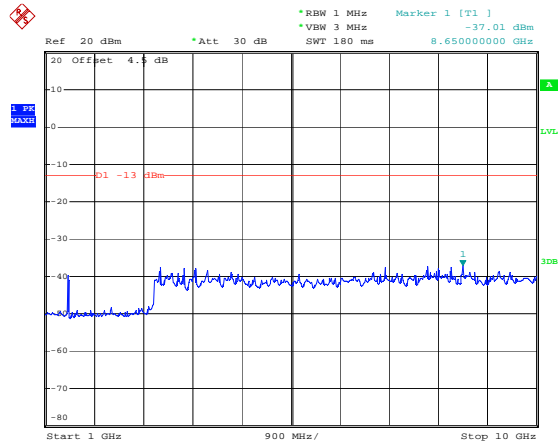


Date: 8.DEC.2020 12:52:33

### 3M, QPSK, High Channel

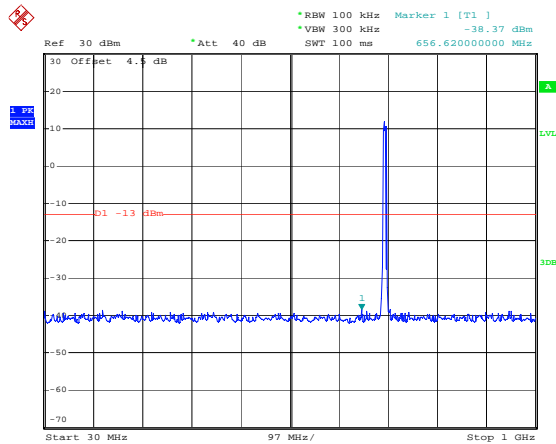


Date: 8.DEC.2020 12:52:54

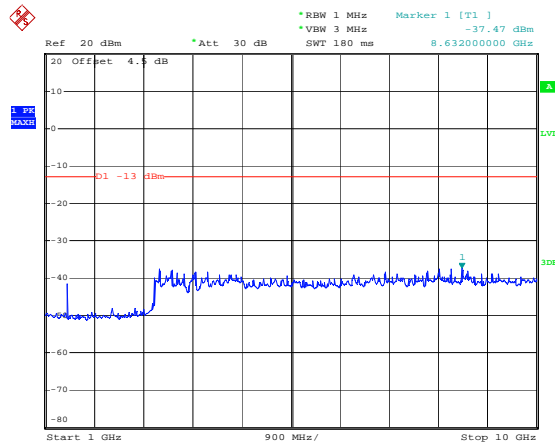


Date: 8.DEC.2020 12:53:06

5M, QPSK, Low Channel

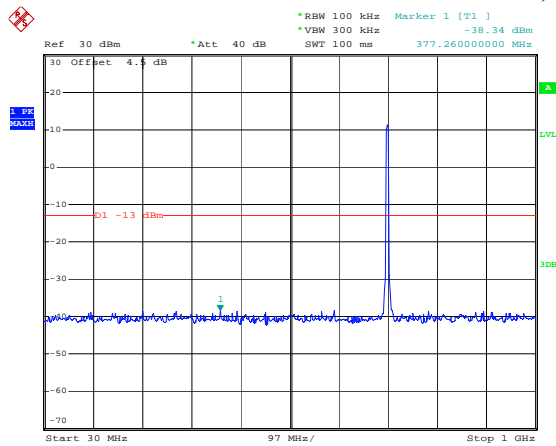


Date: 8.DEC.2020 12:53:27

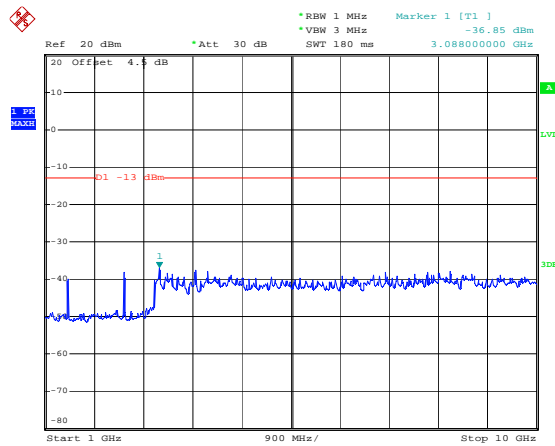


Date: 8.DEC.2020 12:53:40

5M, QPSK, Middle Channel

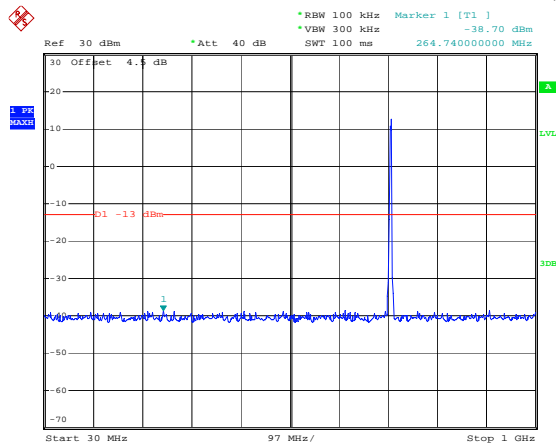


Date: 8.DEC.2020 12:54:00

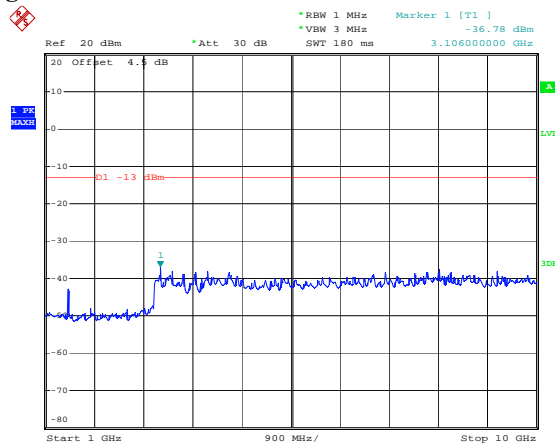


Date: 8.DEC.2020 12:54:13

5M, QPSK, High Channel

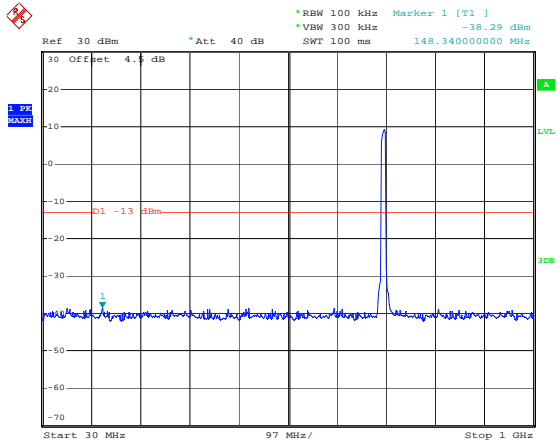


Date: 8.DEC.2020 12:54:33

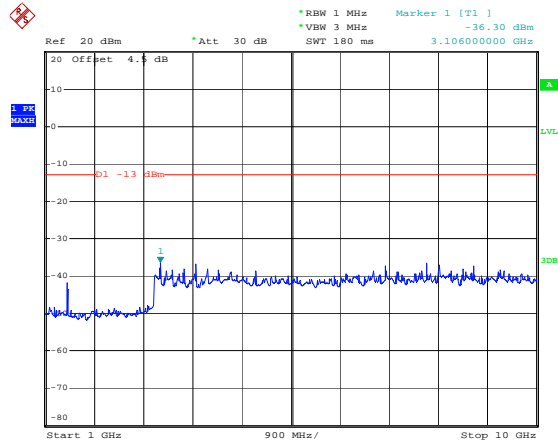


Date: 8.DEC.2020 12:54:46

10M, QPSK, Low Channel

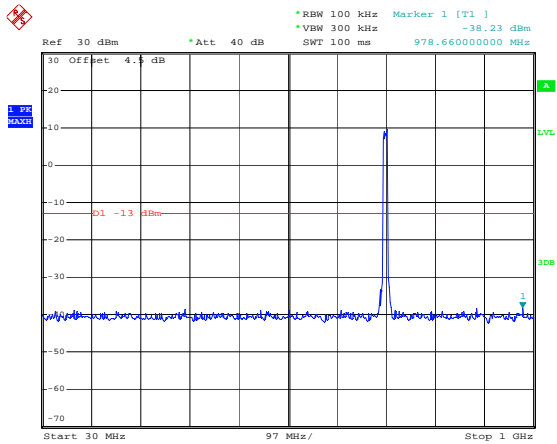


Date: 8.DEC.2020 12:55:11

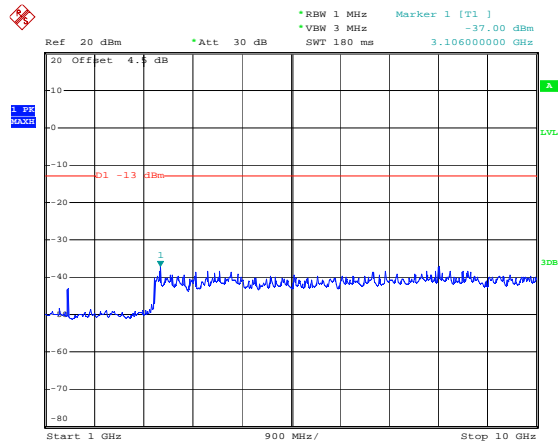


Date: 8.DEC.2020 12:55:24

10M, QPSK, Middle Channel

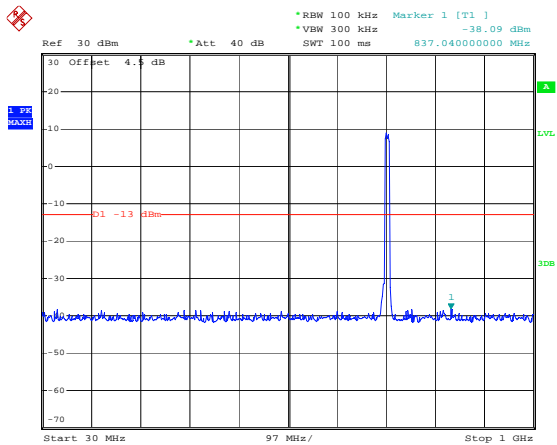


Date: 8.DEC.2020 12:55:46

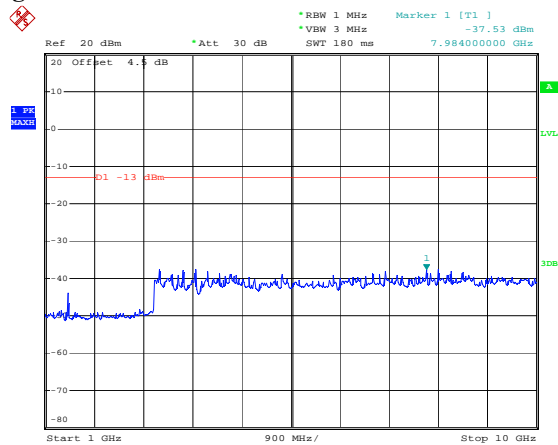


Date: 8.DEC.2020 12:55:59

10M, QPSK, High Channel



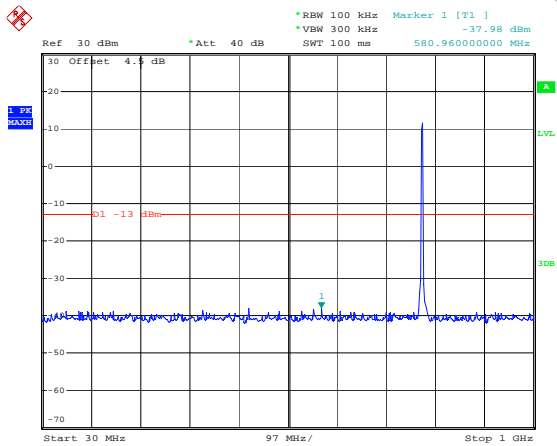
Date: 8.DEC.2020 12:56:20



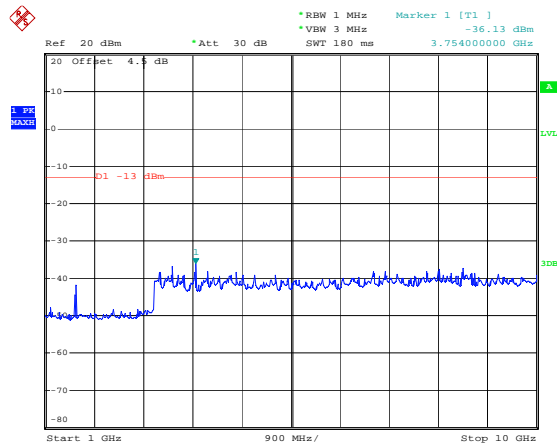
Date: 8.DEC.2020 12:56:33

LTE Band 13:

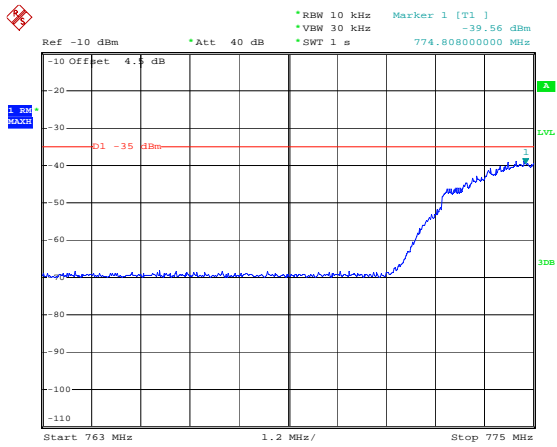
5M, QPSK, Low Channel



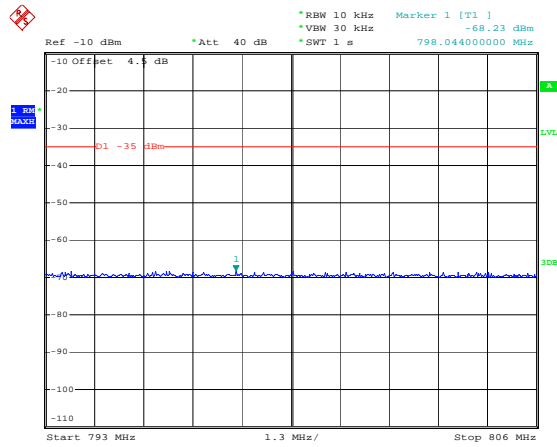
Date: 8.DEC.2020 12:57:04



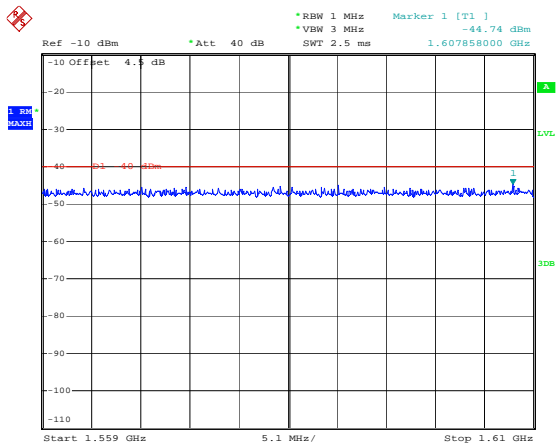
Date: 8.DEC.2020 12:57:16



Date: 23.DEC.2020 17:49:03

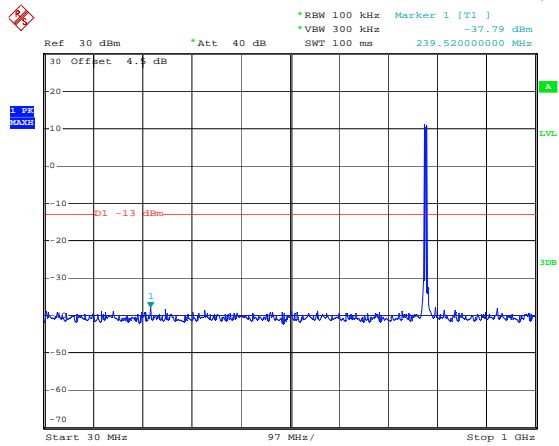


Date: 23.DEC.2020 18:00:33

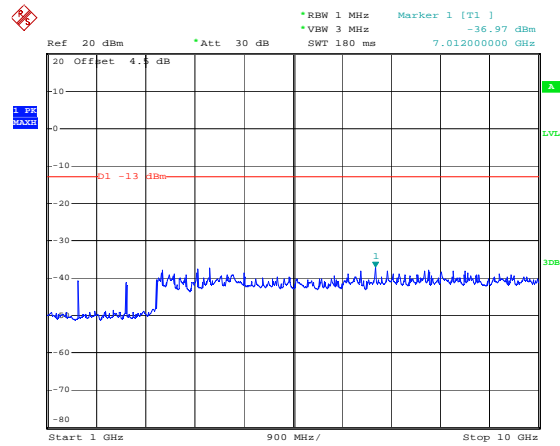


Date: 23.DEC.2020 18:03:12

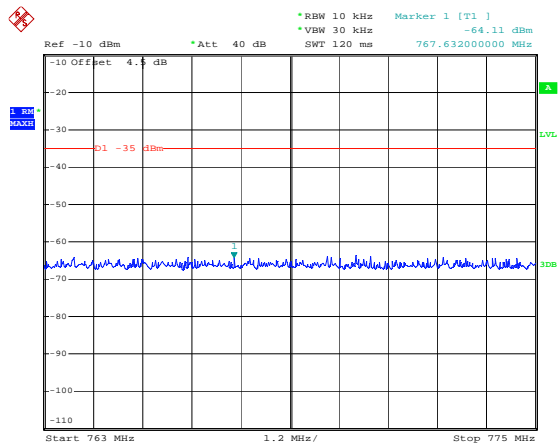
5M, QPSK, Middle Channel



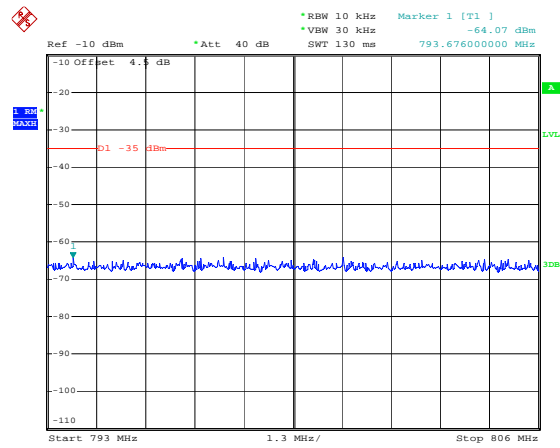
Date: 8.DEC.2020 12:57:37



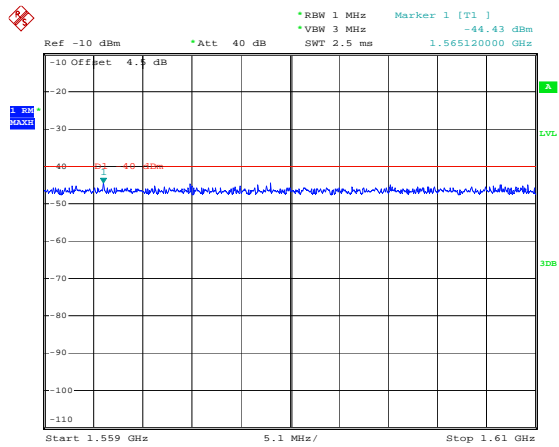
Date: 8.DEC.2020 12:57:50



Date: 23.DEC.2020 18:12:40

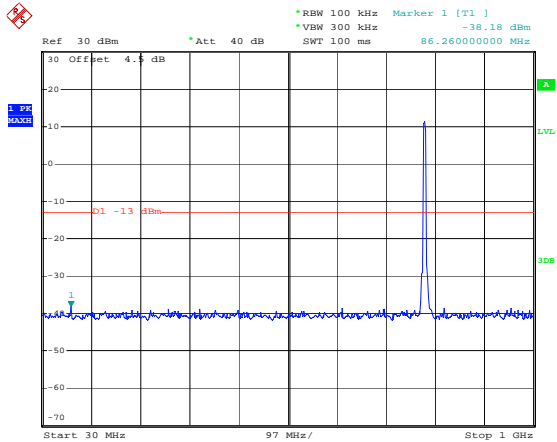


Date: 23.DEC.2020 18:13:26

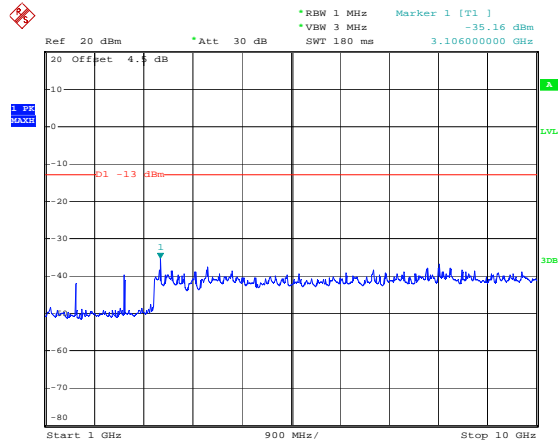


Date: 23.DEC.2020 18:11:28

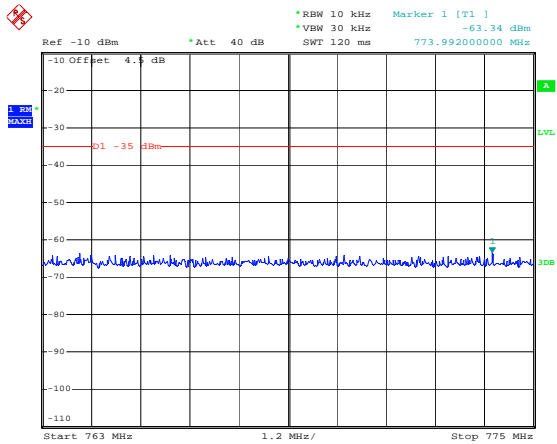
5M, QPSK, High Channel



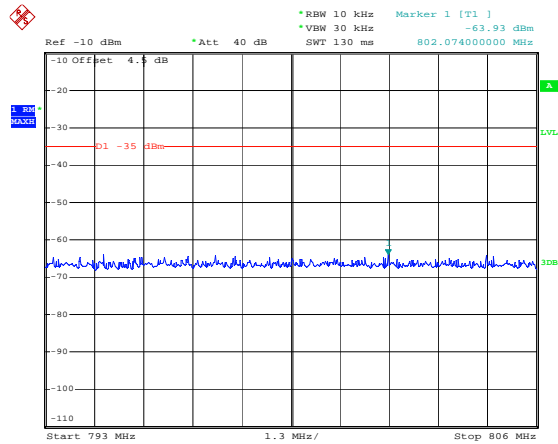
Date: 8.DEC.2020 12:58:13



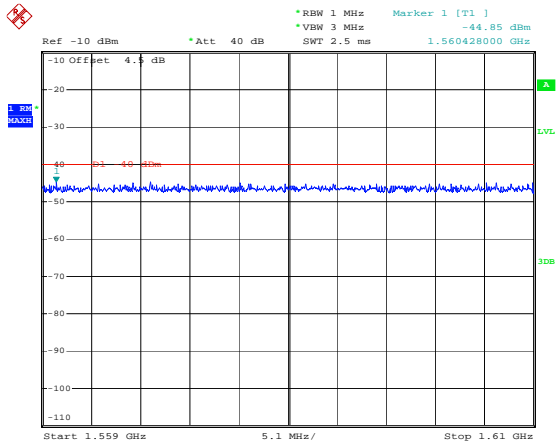
Date: 8.DEC.2020 12:58:26



Date: 23.DEC.2020 18:06:05

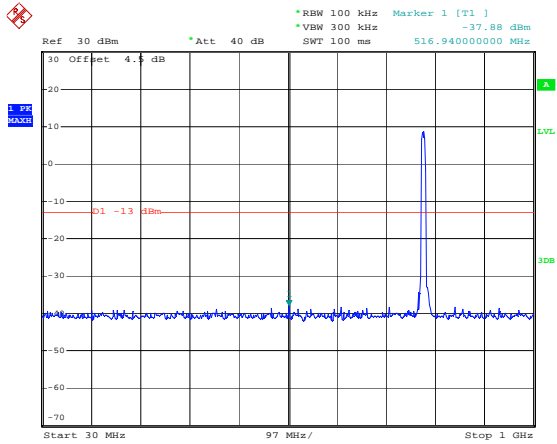


Date: 23.DEC.2020 18:06:53

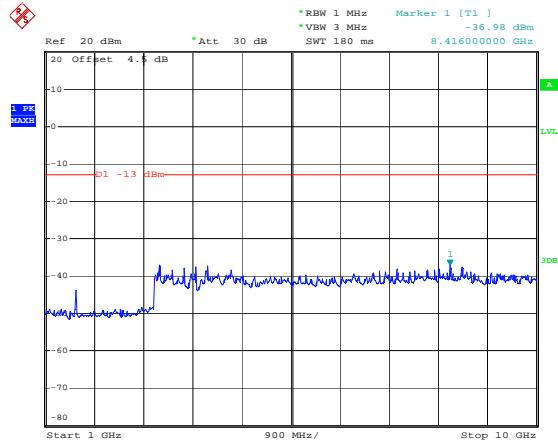


Date: 23.DEC.2020 18:04:53

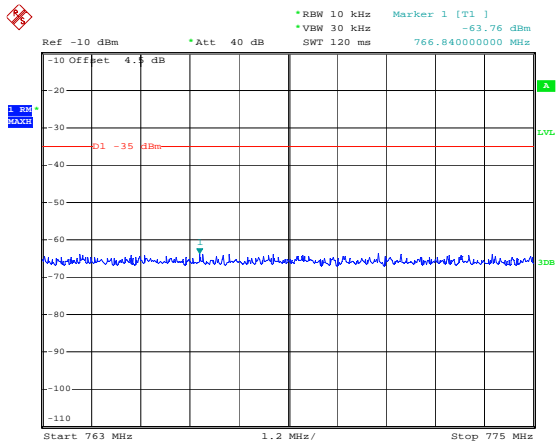
### 10M, QPSK, Middle Channel



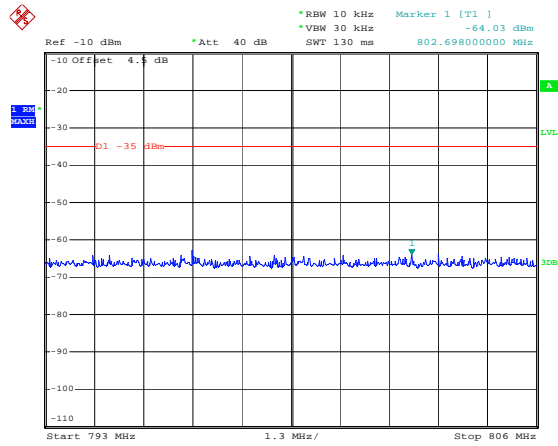
Date: 8.DEC.2020 12:58:50



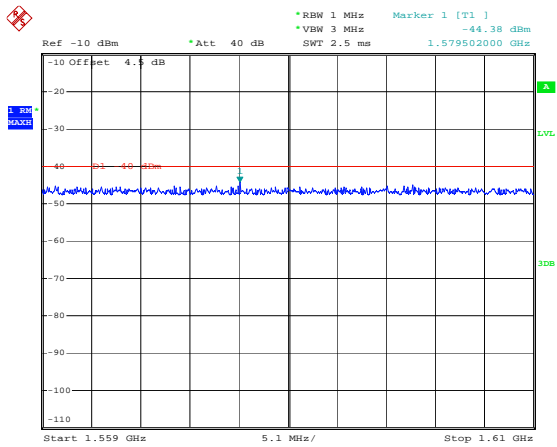
Date: 8.DEC.2020 12:59:03



Date: 23.DEC.2020 18:19:25



Date: 23.DEC.2020 18:18:04

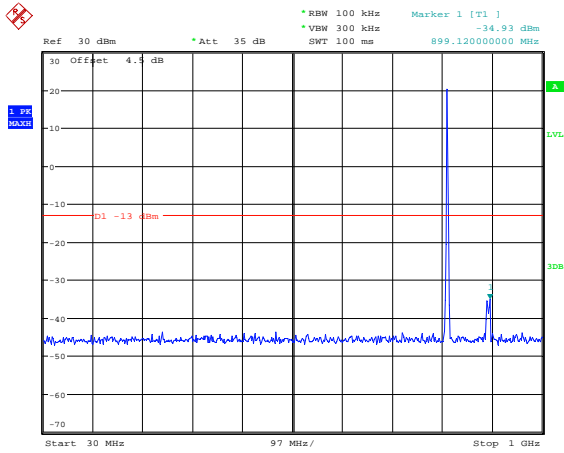


Date: 23.DEC.2020 18:23:09

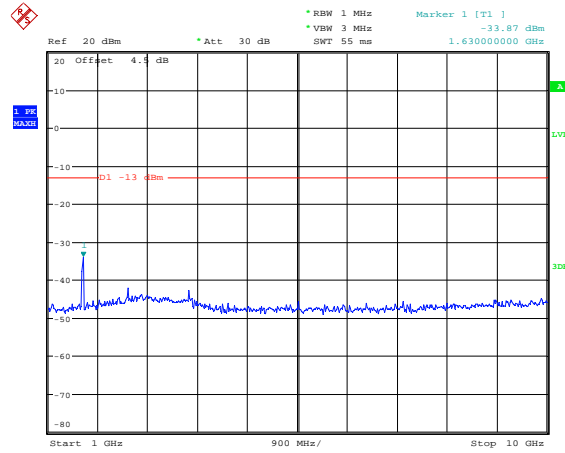


LTE Band 26:

1.4M, QPSK, Low Channel

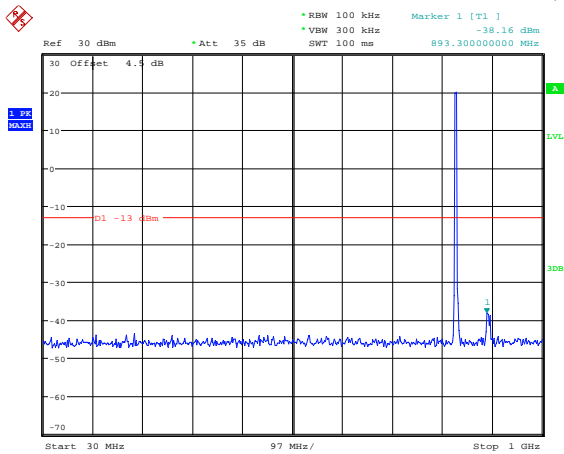


Date: 17.DEC.2020 21:21:15

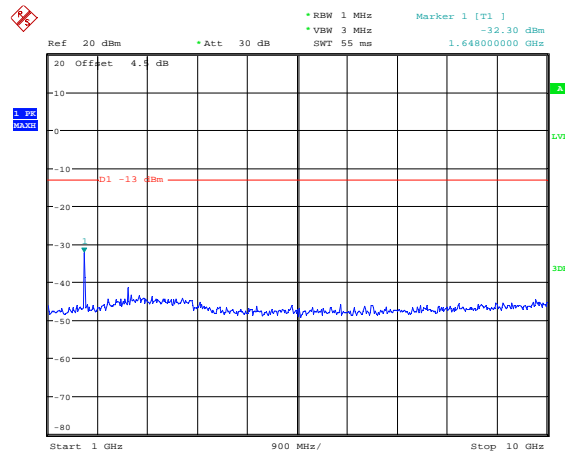


Date: 17.DEC.2020 21:21:28

1.4M, QPSK, Middle Channel

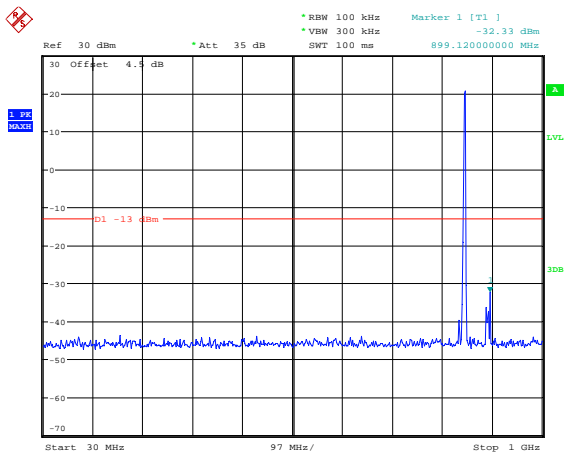


Date: 17.DEC.2020 21:21:44

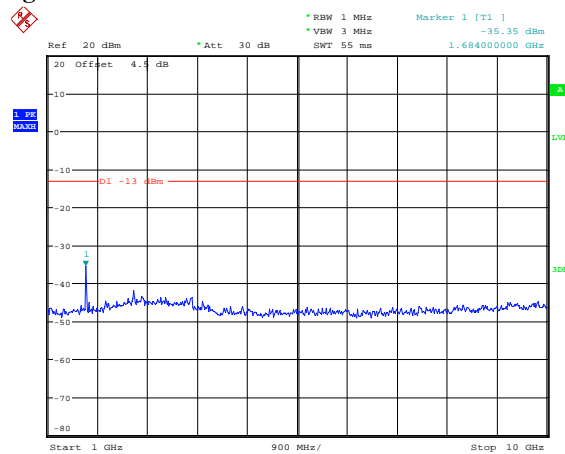


Date: 17.DEC.2020 21:21:57

1.4M, QPSK, High Channel

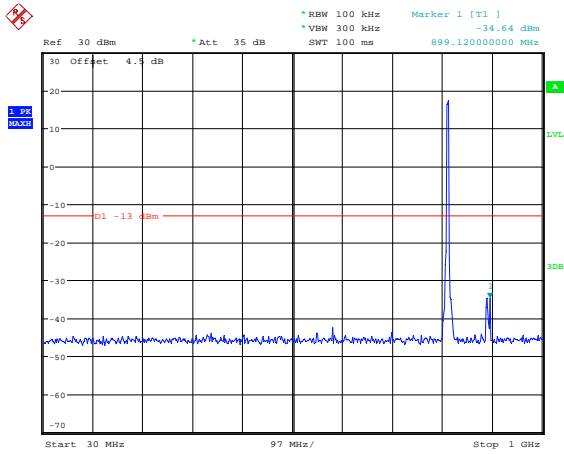


Date: 17.DEC.2020 21:22:13

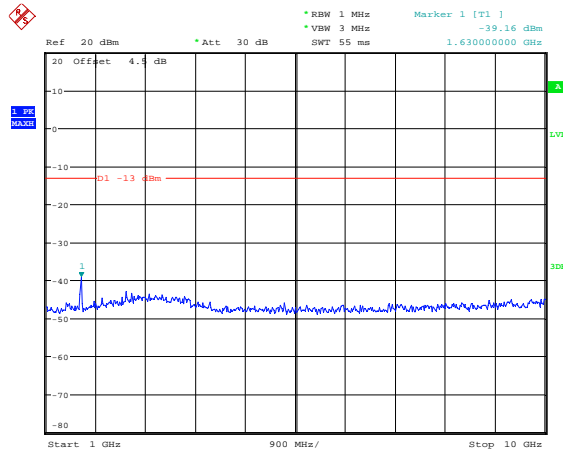


Date: 17.DEC.2020 21:22:26

### 3M, QPSK, Low Channel

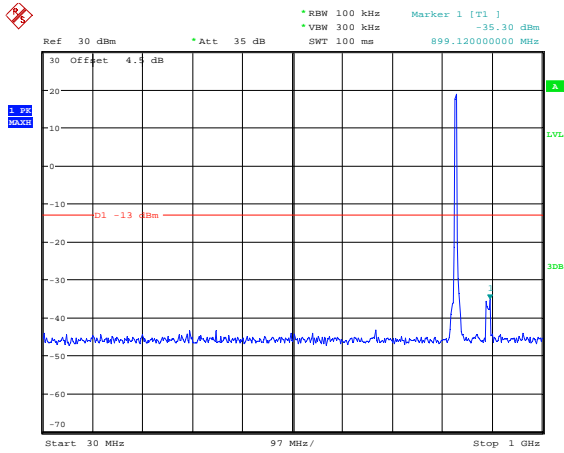


Date: 17.DEC.2020 21:22:49

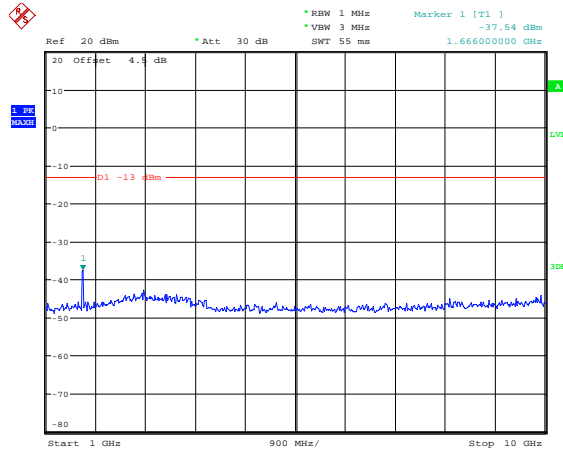


Date: 17.DEC.2020 21:23:02

### 3M, QPSK, Middle Channel

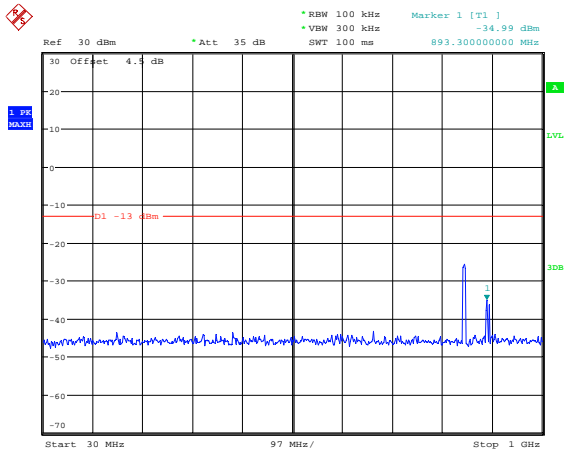


Date: 17.DEC.2020 21:23:19

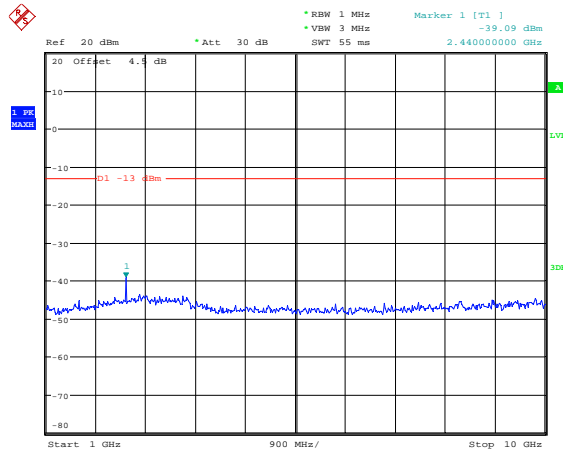


Date: 17.DEC.2020 21:23:31

### 3M, QPSK, High Channel

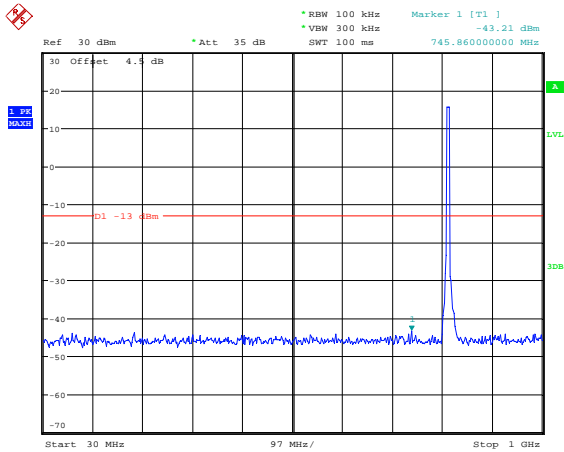


Date: 17.DEC.2020 21:23:48

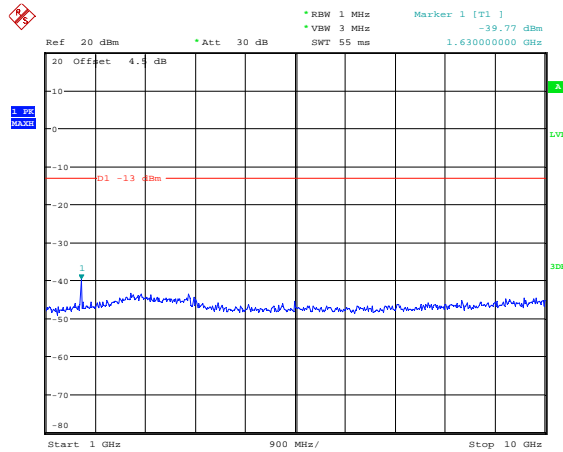


Date: 17.DEC.2020 21:24:01

### 5M, QPSK, Low Channel

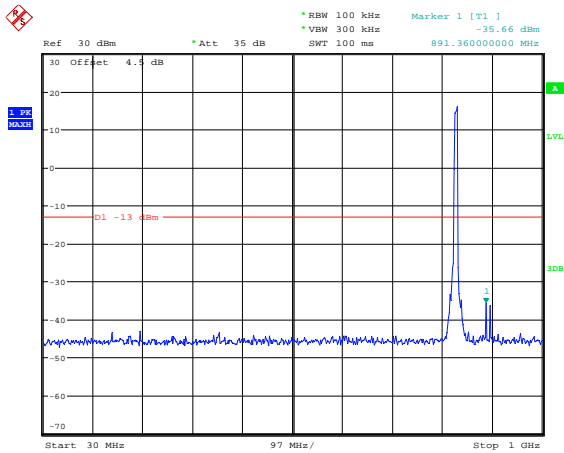


Date: 17.DEC.2020 21:31:44

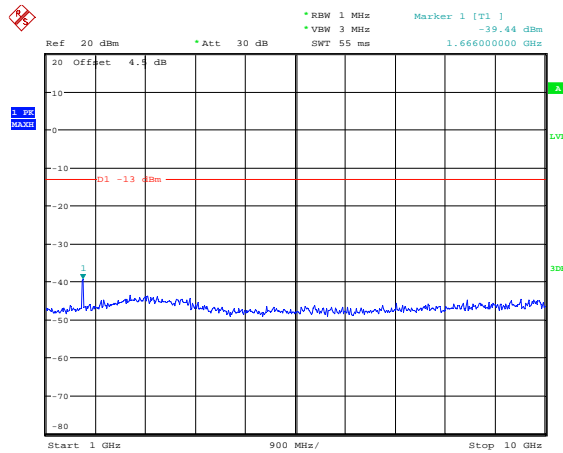


Date: 17.DEC.2020 21:32:01

### 5M, QPSK, Middle Channel

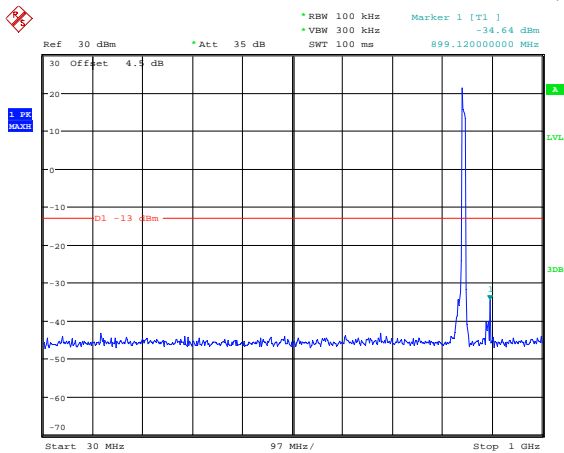


Date: 17.DEC.2020 21:32:22

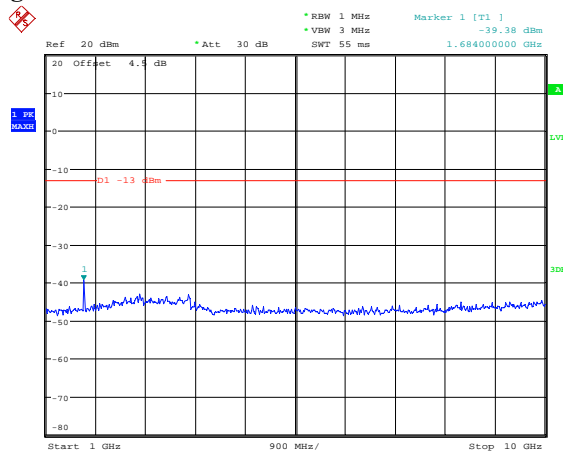


Date: 17.DEC.2020 21:32:35

### 5M, QPSK, High Channel

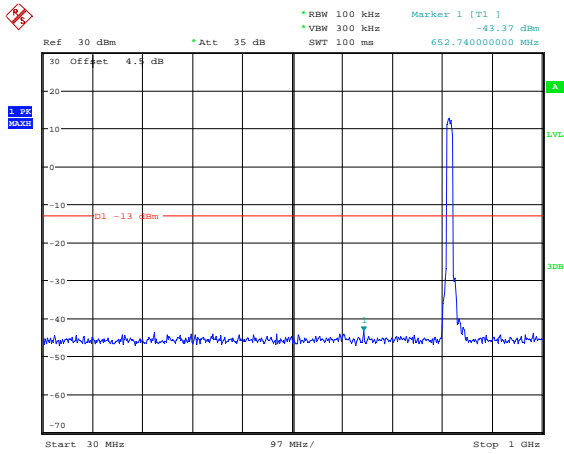


Date: 17.DEC.2020 21:32:57

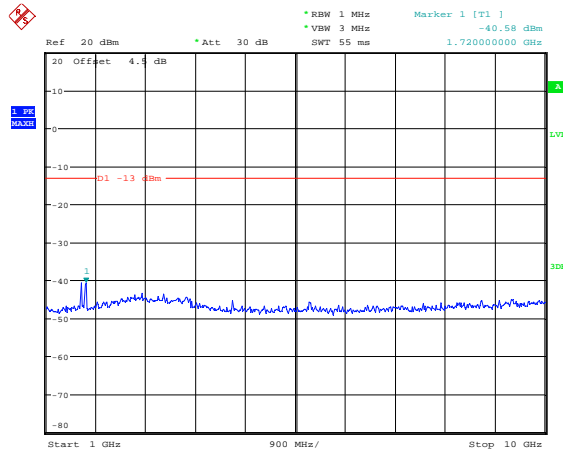


Date: 17.DEC.2020 21:33:13

### 10M, QPSK, Low Channel

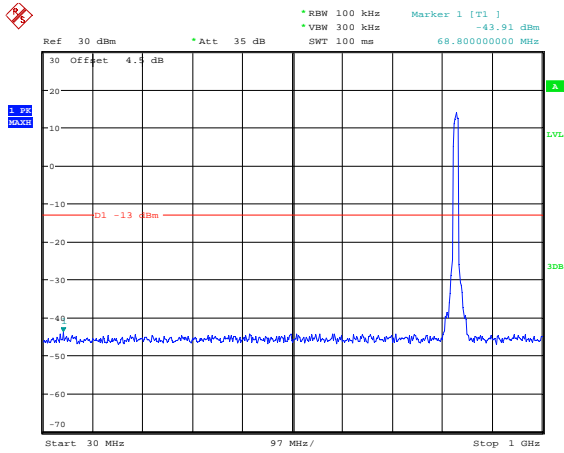


Date: 17.DEC.2020 21:33:39

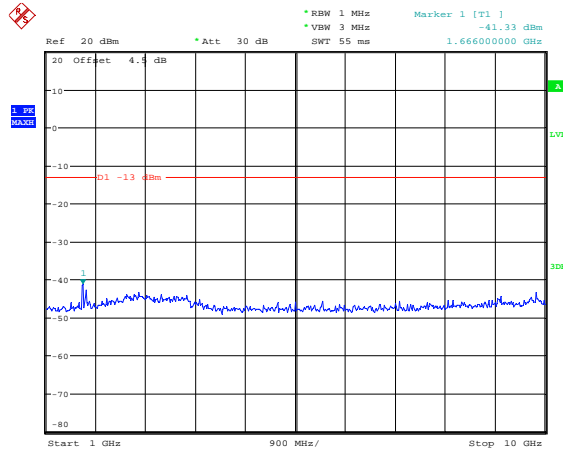


Date: 17.DEC.2020 21:33:52

### 10M, QPSK, Middle Channel

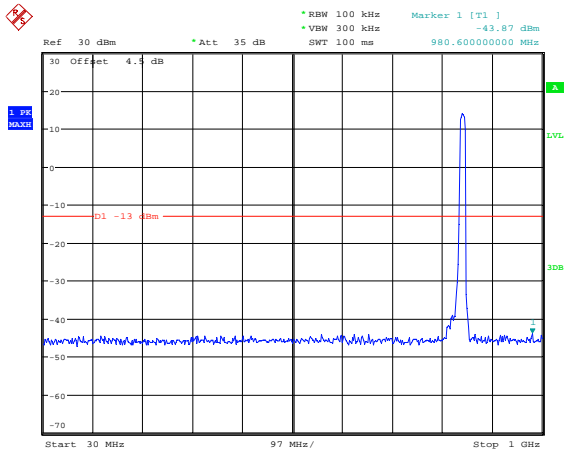


Date: 17.DEC.2020 21:34:15

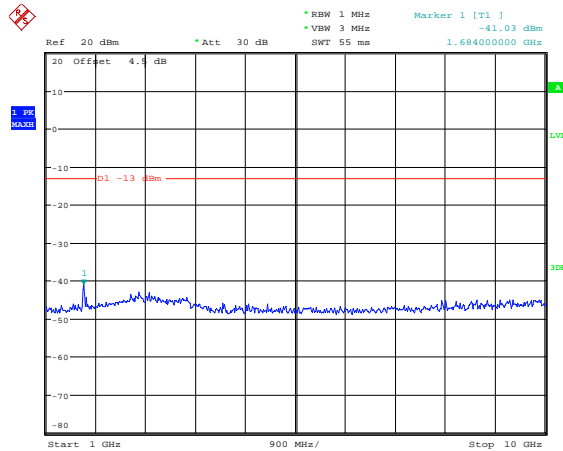


Date: 17.DEC.2020 21:34:27

### 10M, QPSK, High Channel

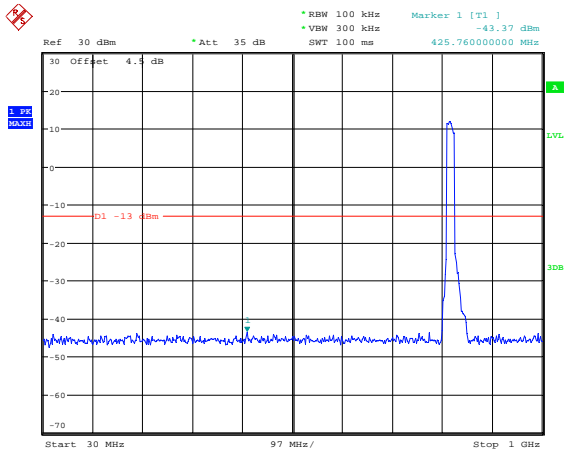


Date: 17.DEC.2020 21:34:50

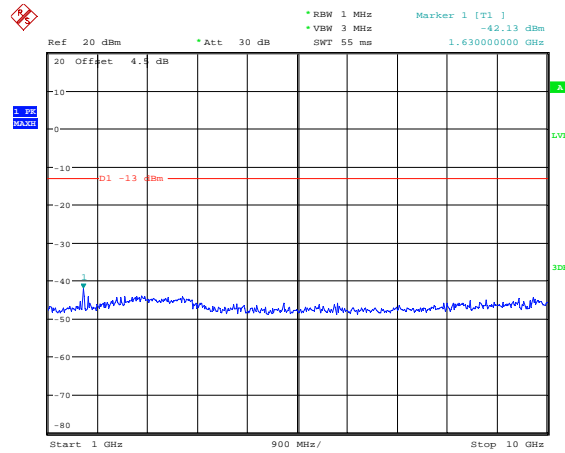


Date: 17.DEC.2020 21:35:03

### 15M, QPSK, Low Channel

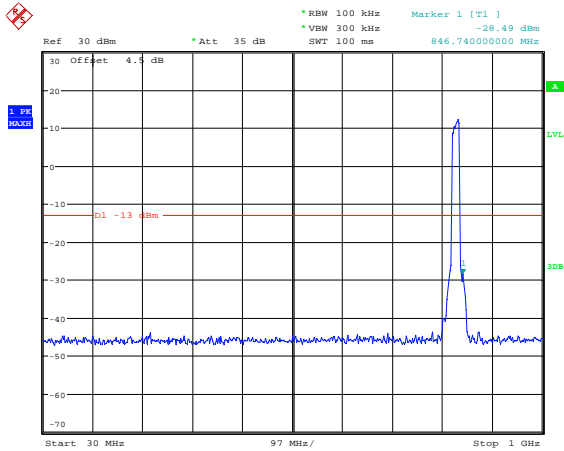


Date: 17.DEC.2020 21:35:31

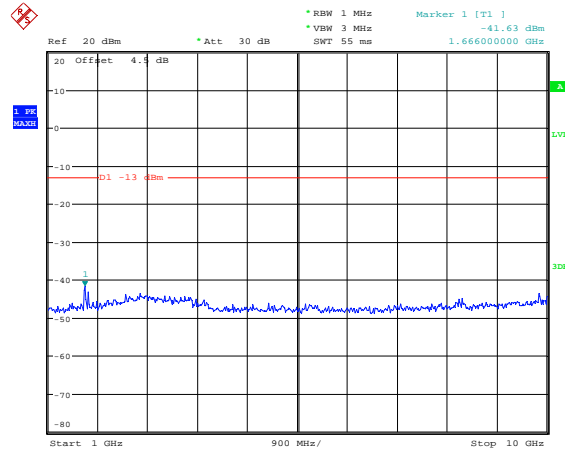


Date: 17.DEC.2020 21:35:43

### 15M, QPSK, Middle Channel

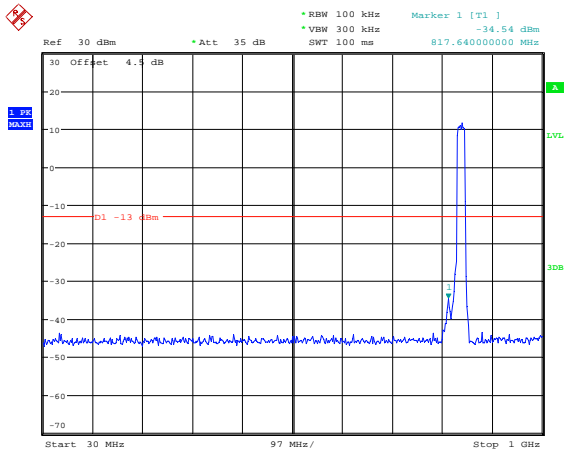


Date: 17.DEC.2020 21:36:05

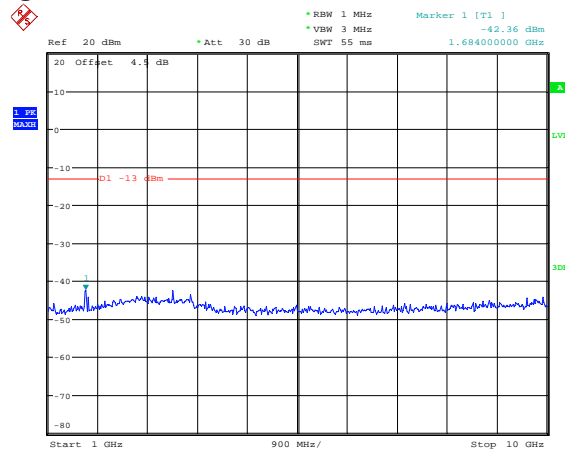


Date: 17.DEC.2020 21:36:17

### 15M, QPSK, High Channel



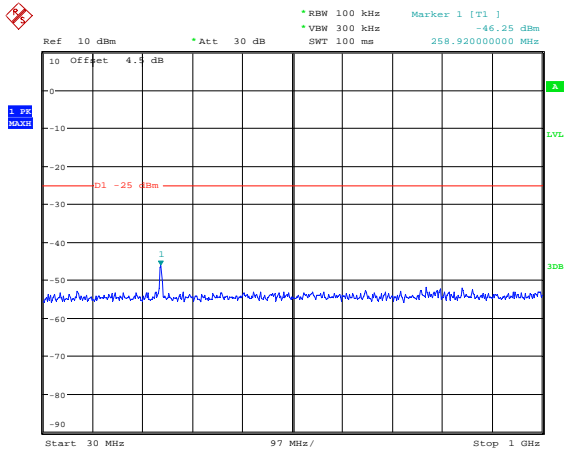
Date: 17.DEC.2020 21:36:42



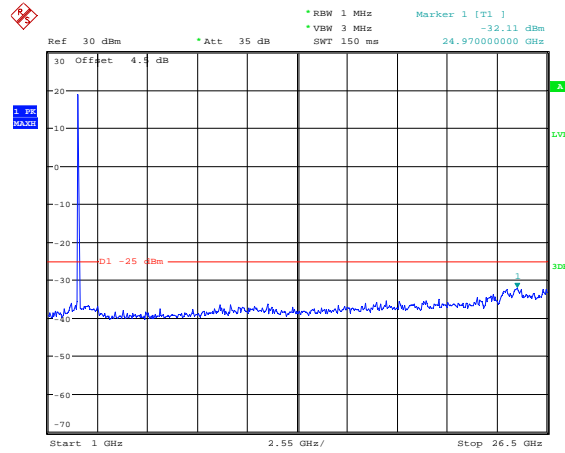
Date: 17.DEC.2020 21:36:55

LTE Band 38:

5M, QPSK, Low Channel

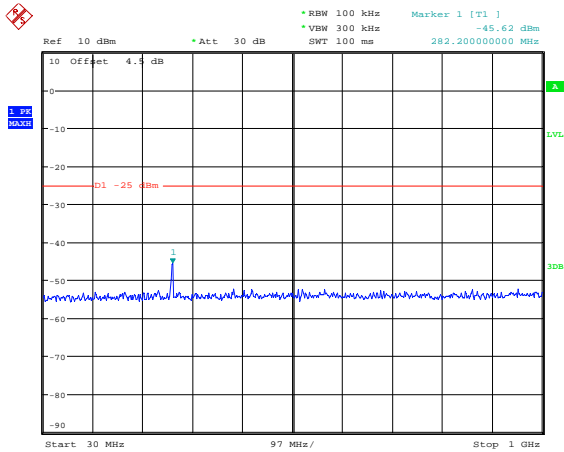


Date: 17.DEC.2020 21:37:26

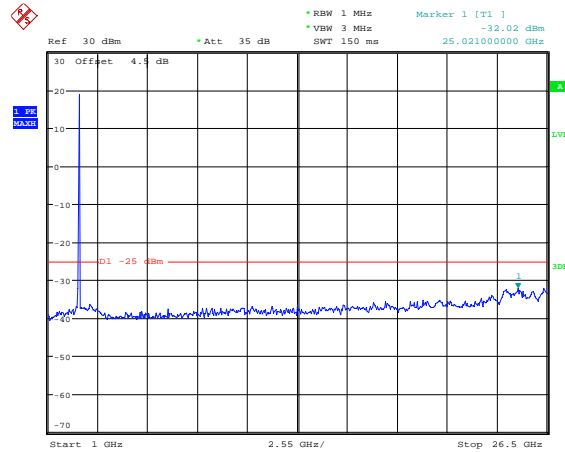


Date: 17.DEC.2020 21:37:39

5M, QPSK, Middle Channel

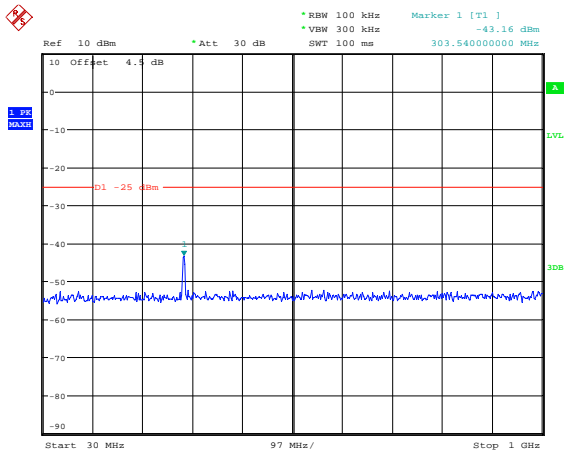


Date: 17.DEC.2020 21:38:00

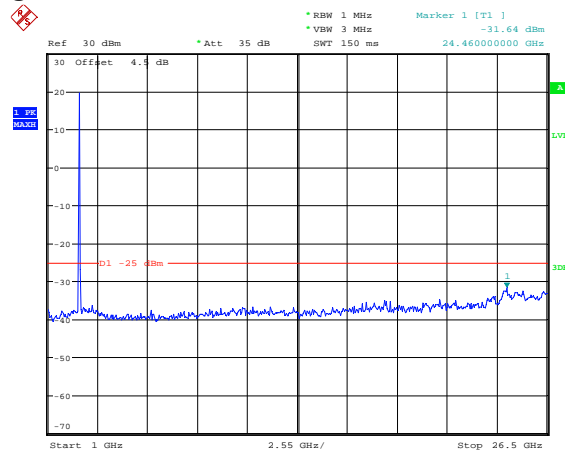


Date: 17.DEC.2020 21:38:13

5M, QPSK, High Channel

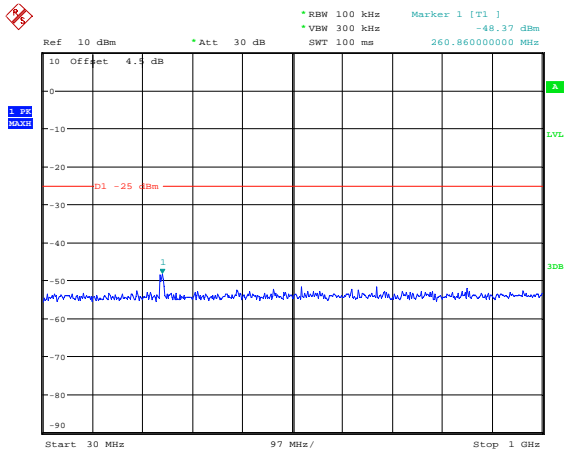


Date: 17.DEC.2020 21:38:34

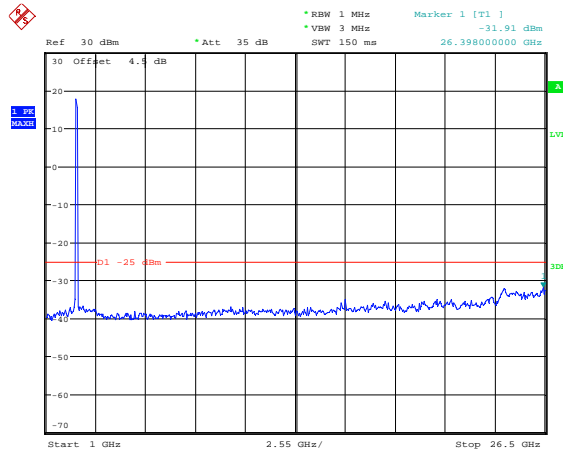


Date: 17.DEC.2020 21:38:47

### 10M, QPSK, Low Channel

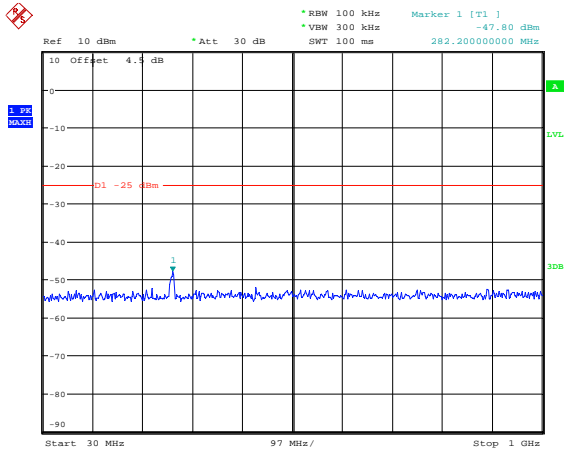


Date: 17.DEC.2020 21:39:34

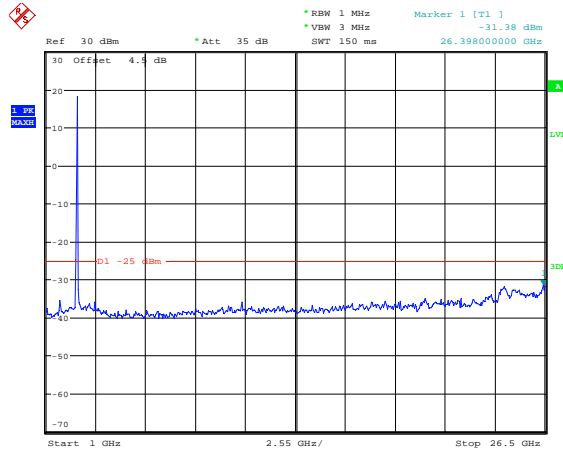


Date: 17.DEC.2020 21:39:47

### 10M, QPSK, Middle Channel

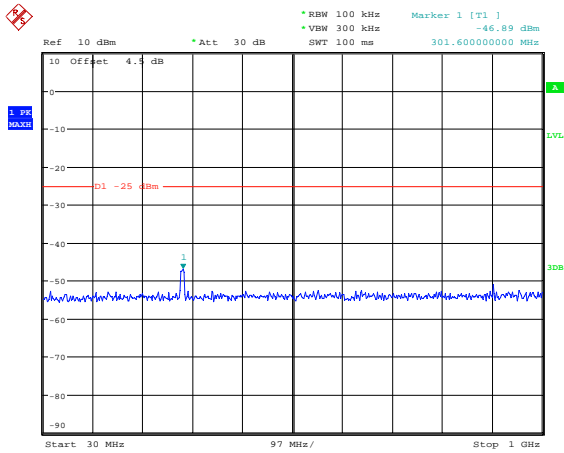


Date: 17.DEC.2020 21:40:05

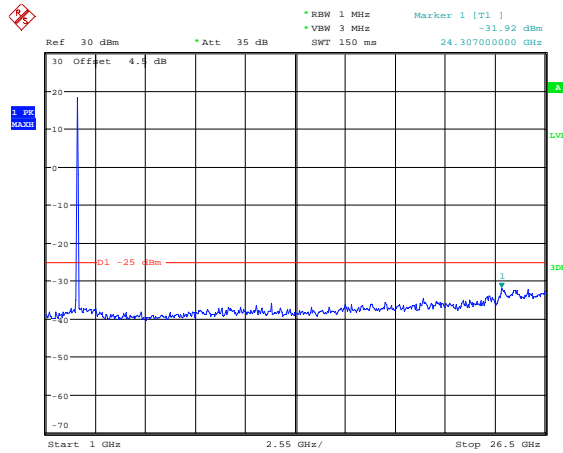


Date: 17.DEC.2020 21:40:22

### 10M, QPSK, High Channel

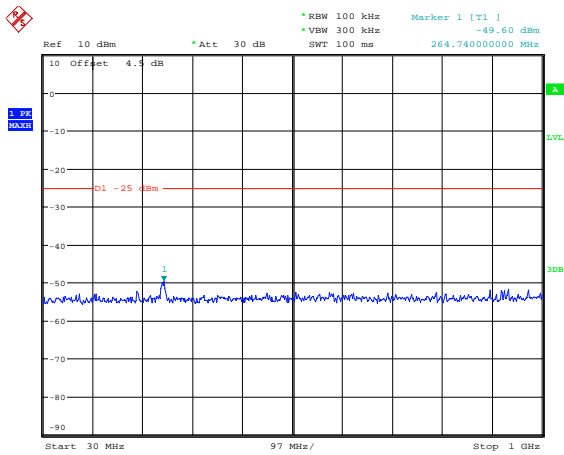


Date: 17.DEC.2020 21:40:44

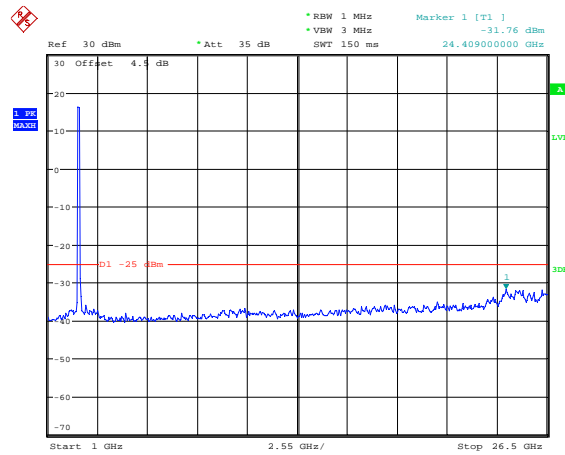


Date: 17.DEC.2020 21:40:57

### 15M, QPSK, Low Channel

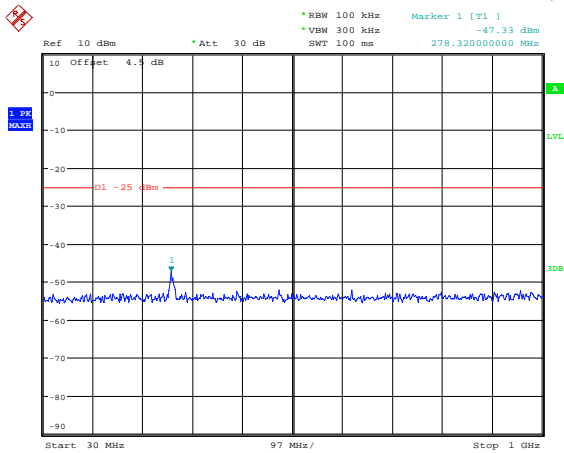


Date: 17.DEC.2020 21:41:46

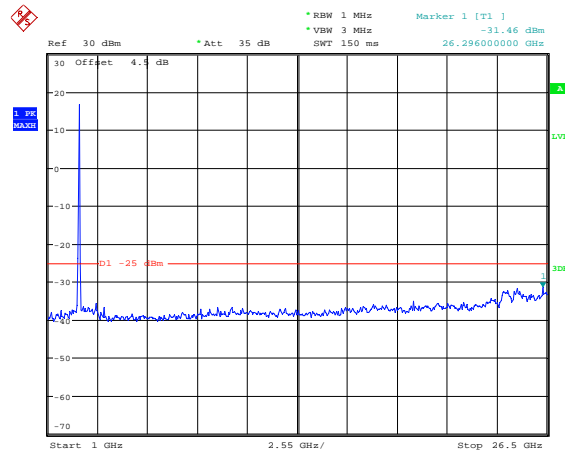


Date: 17.DEC.2020 21:41:59

### 15M, QPSK, Middle Channel

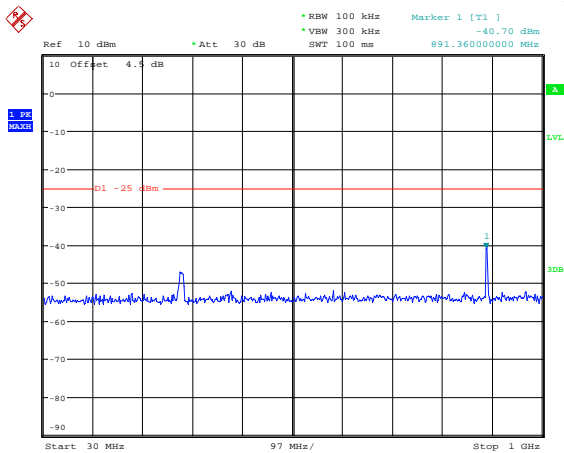


Date: 17.DEC.2020 21:42:24

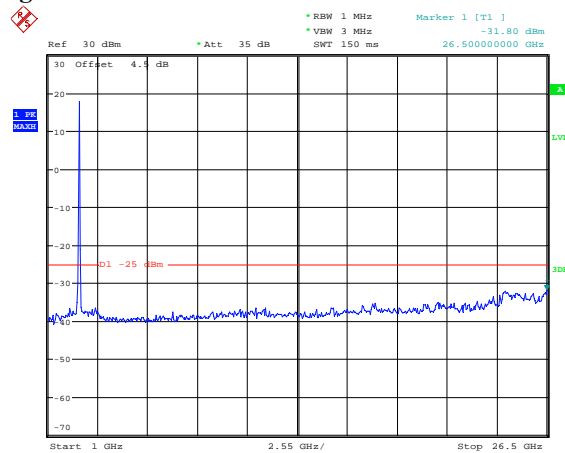


Date: 17.DEC.2020 21:42:36

### 15M, QPSK, High Channel



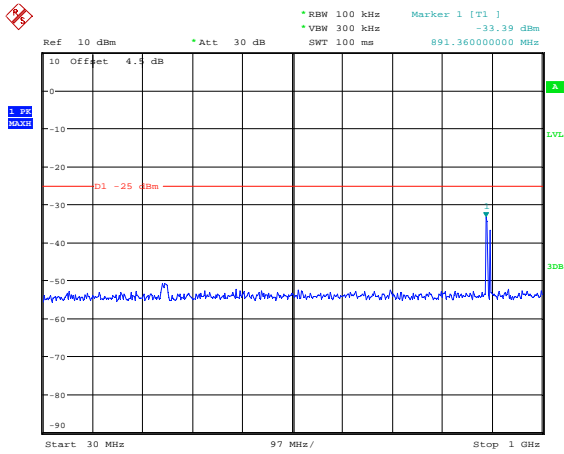
Date: 17.DEC.2020 21:43:01



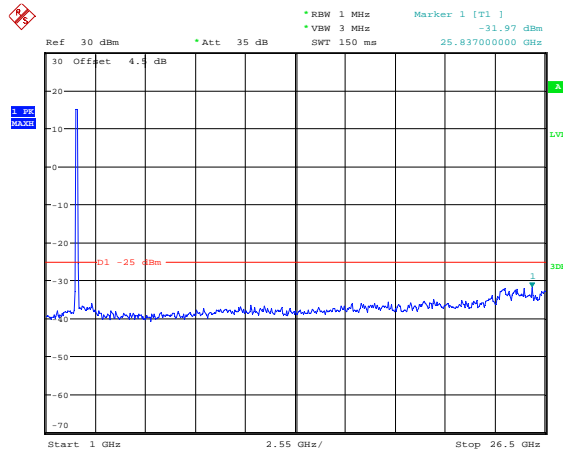
Date: 17.DEC.2020 21:43:14



### 20M, QPSK, Low Channel

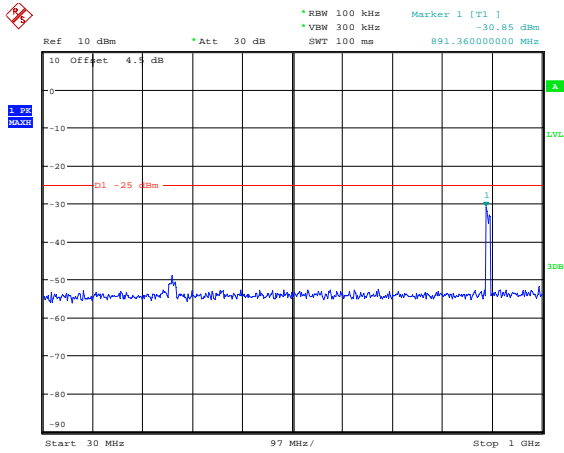


Date: 17.DEC.2020 21:44:06

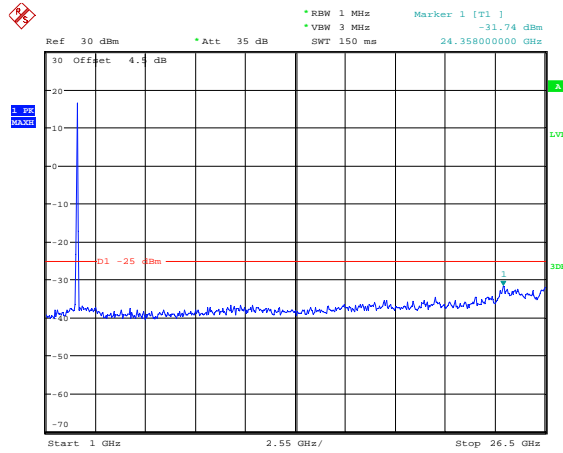


Date: 17.DEC.2020 21:44:19

### 20M, QPSK, Middle Channel

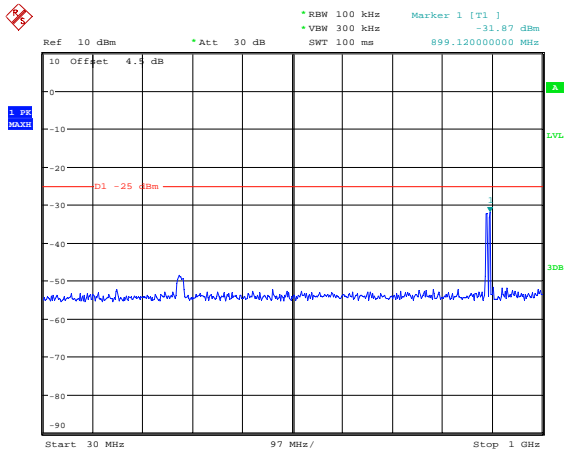


Date: 17.DEC.2020 21:44:44

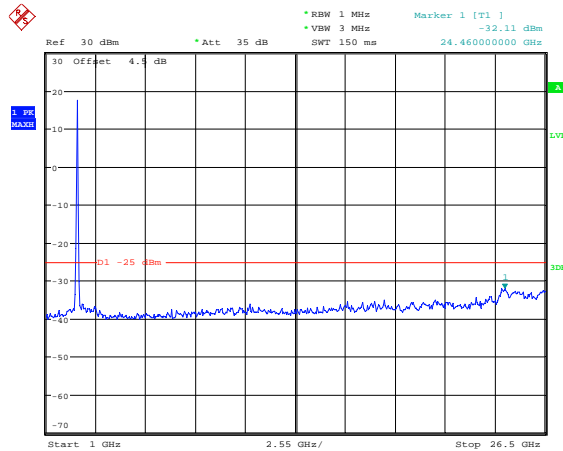


Date: 17.DEC.2020 21:44:57

### 20M, QPSK, High Channel



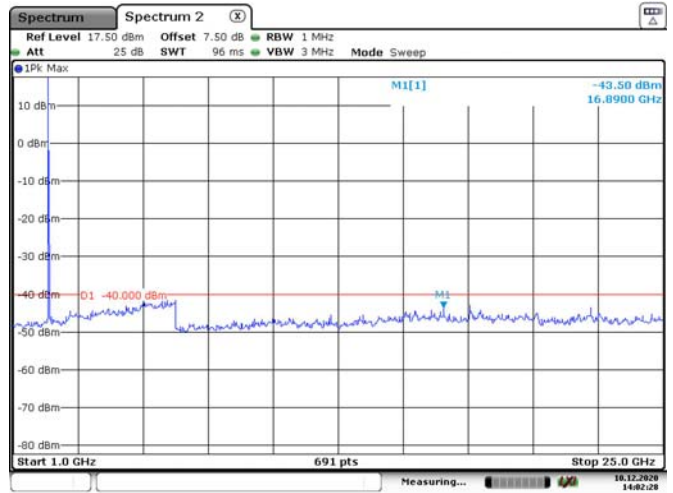
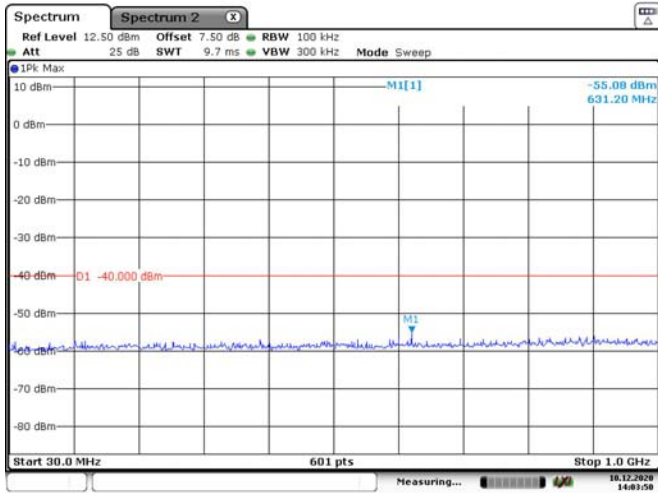
Date: 17.DEC.2020 21:45:21



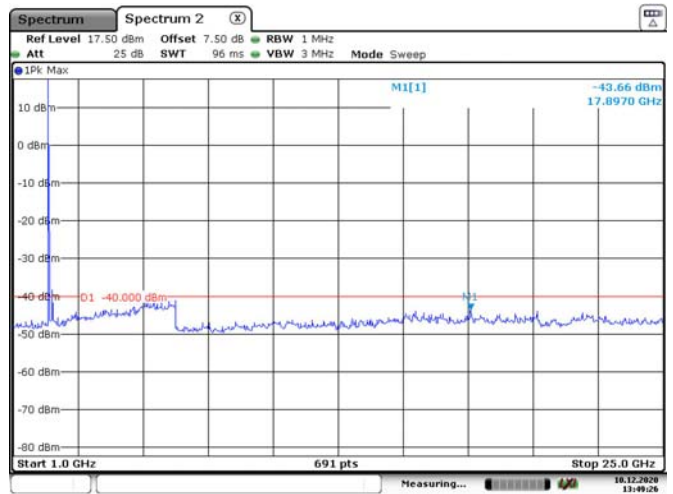
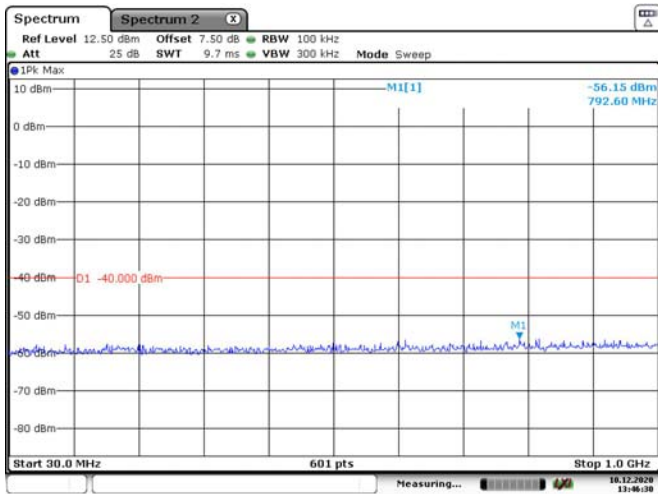
Date: 17.DEC.2020 21:45:38

LTE Band 40 Lower:

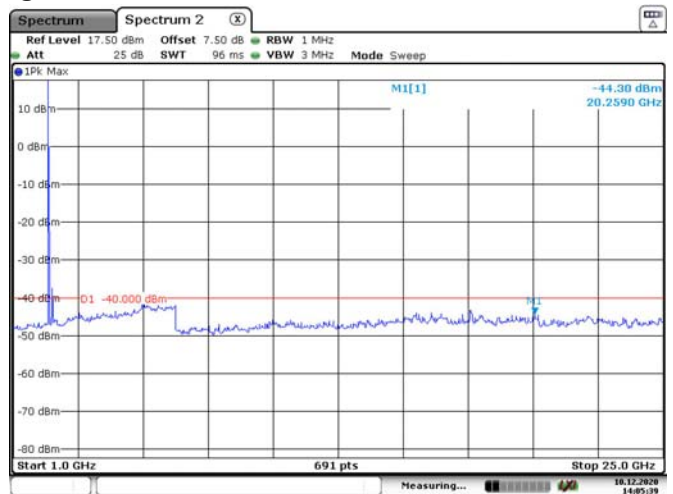
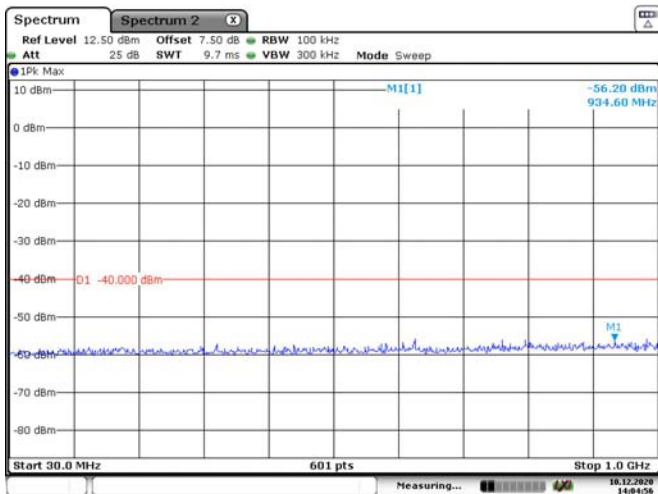
5M, QPSK, Low Channel



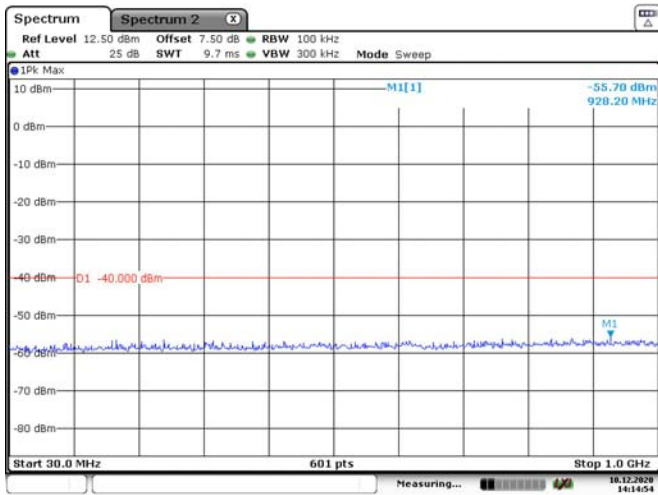
5M, QPSK, Middle Channel



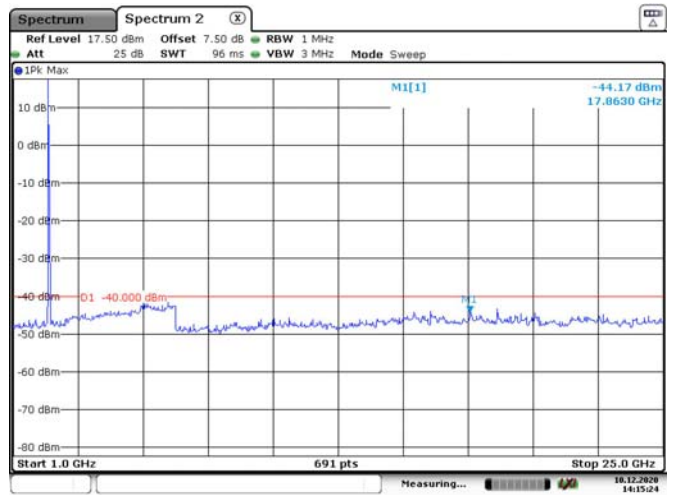
5M, QPSK, High Channel



10M, QPSK, Middle Channel



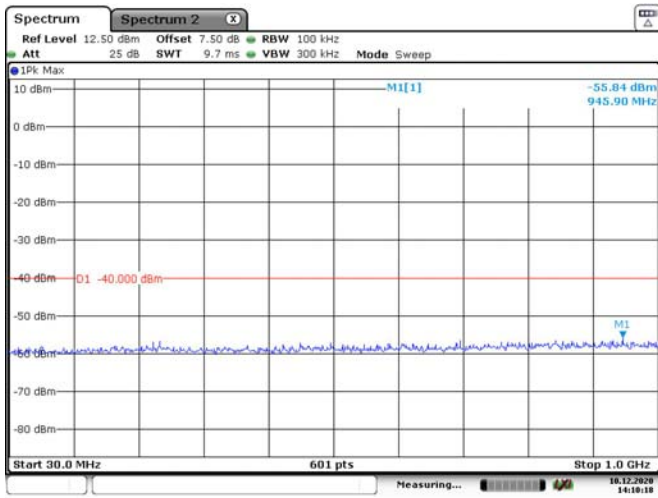
Date: 10.DEC.2020 14:14:54



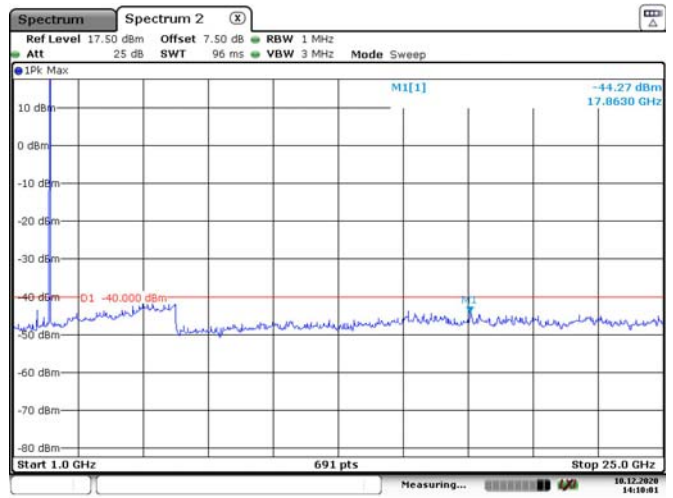
Date: 10.DEC.2020 14:15:24

**LTE Band 40 Upper:**

**5M, QPSK, Low Channel**

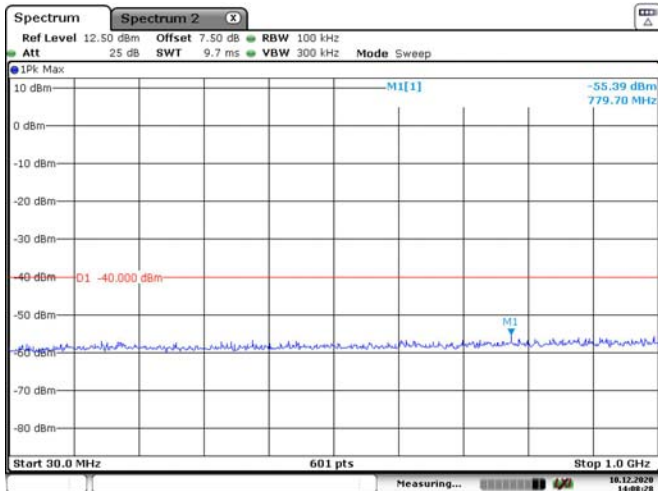


Date: 10, DEC, 2020 14:10:19

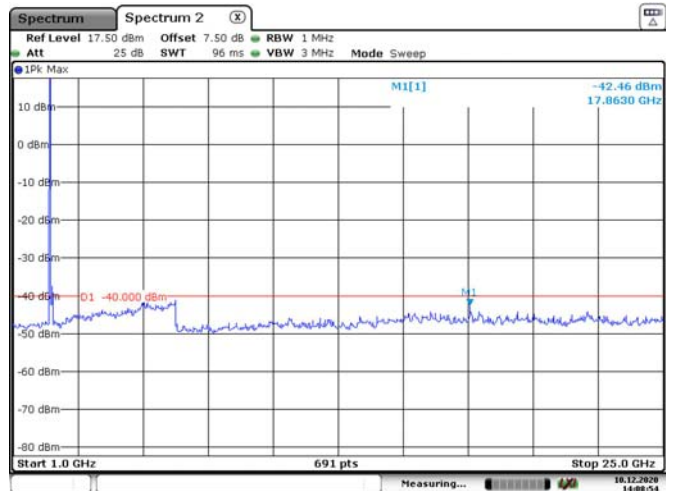


Date: 10, DEC, 2020 14:10:02

**5M, QPSK, Middle Channel**

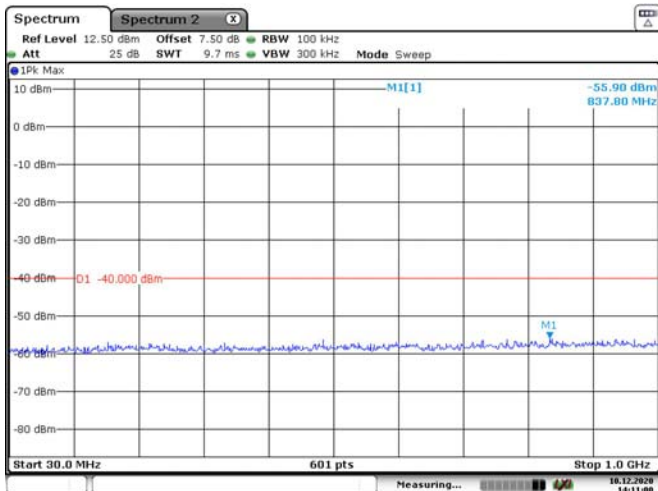


Date: 10, DEC, 2020 14:08:28

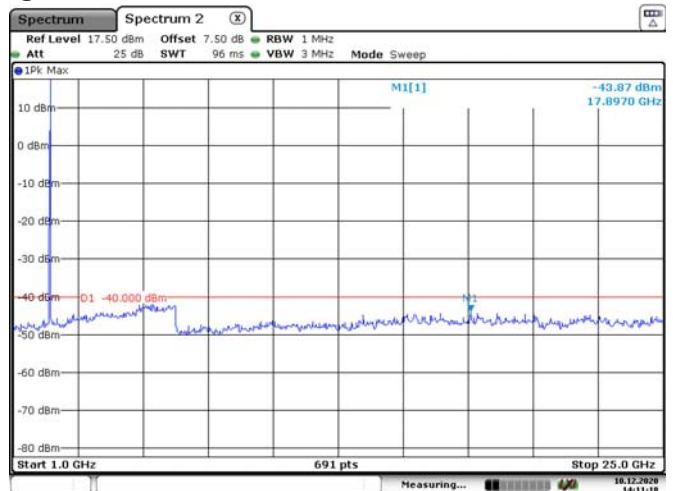


Date: 10, DEC, 2020 14:08:55

**5M, QPSK, High Channel**

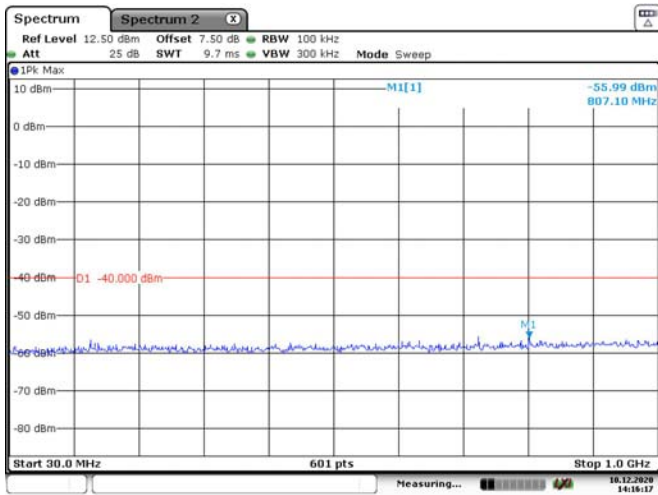


Date: 10, DEC, 2020 14:11:00

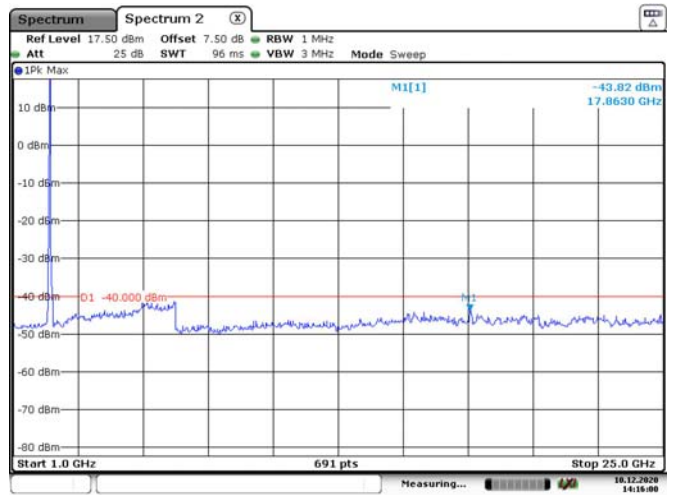


Date: 10, DEC, 2020 14:11:19

### 10M, QPSK, Middle Channel



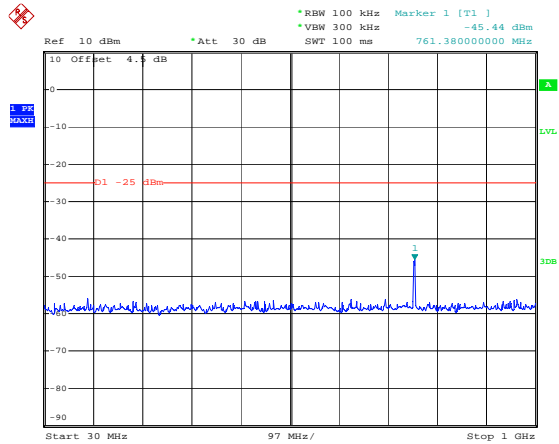
Date: 10.DEC.2020 14:16:17



Date: 10.DEC.2020 14:16:00

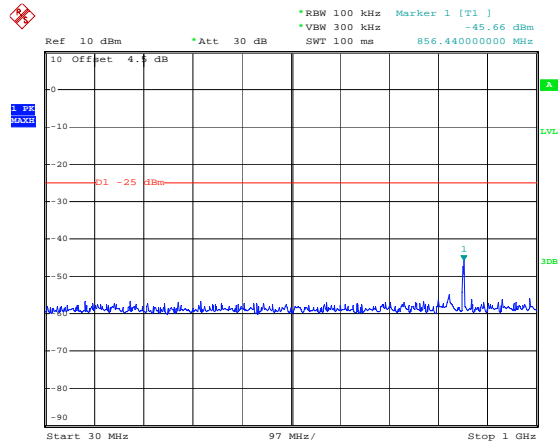
LTE Band 41:

5M, QPSK, Low Channel

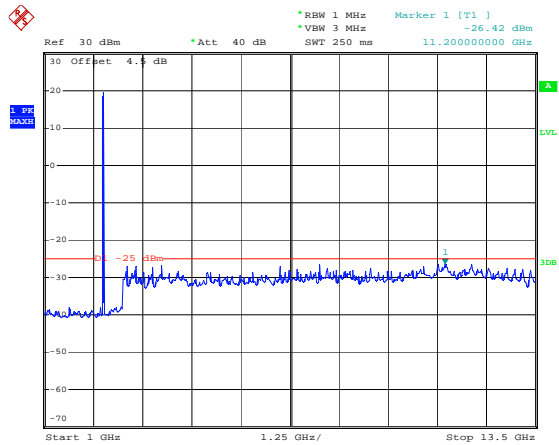


Date: 10.DEC.2020 07:59:18

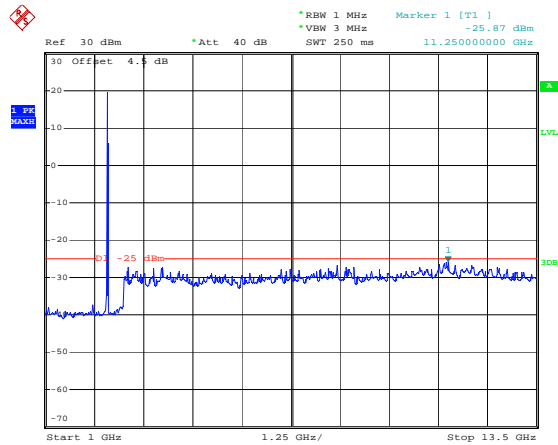
5M, QPSK, Middle Channel



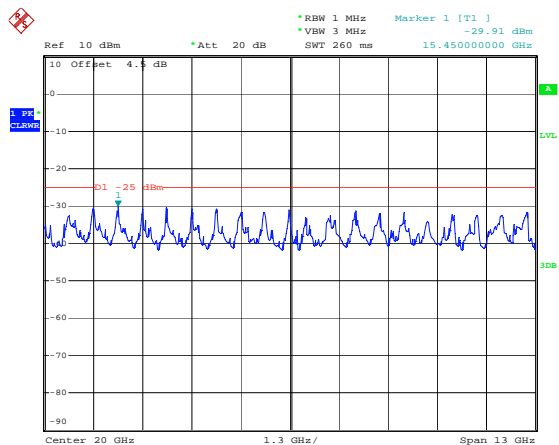
Date: 10.DEC.2020 08:00:12



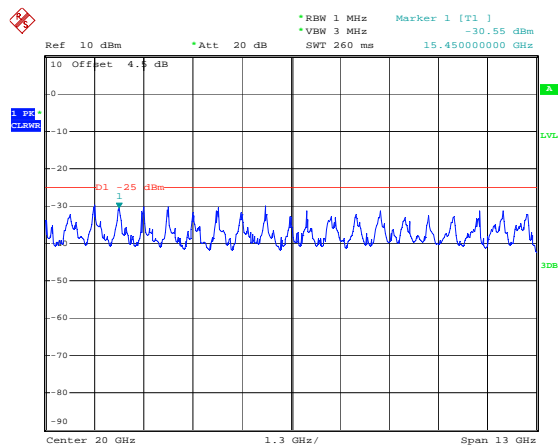
Date: 10.DEC.2020 07:59:31



Date: 10.DEC.2020 08:00:28

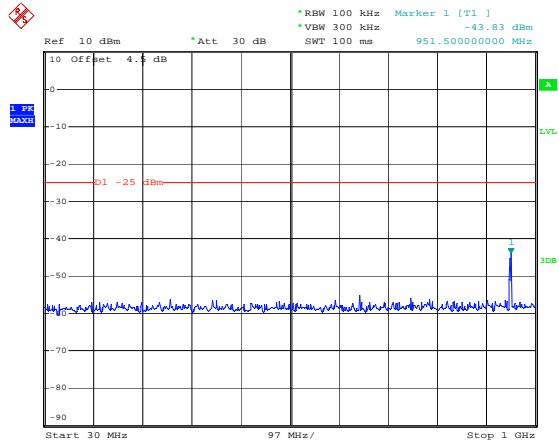


Date: 10.DEC.2020 07:59:55



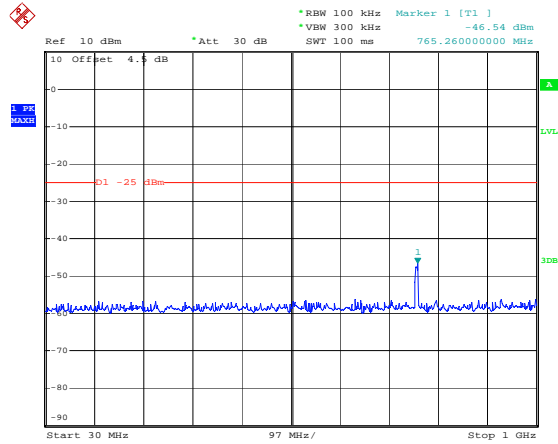
Date: 10.DEC.2020 08:01:10

### 5M, QPSK, High Channel

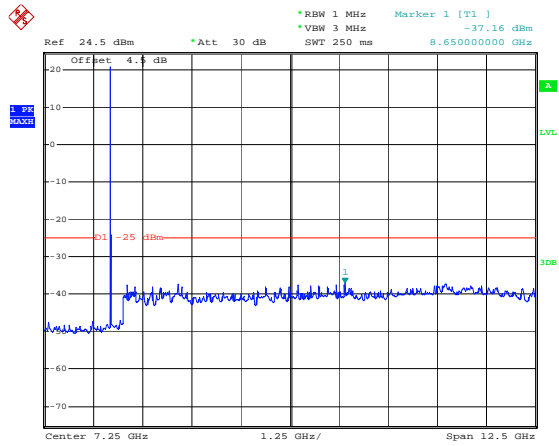


Date: 10.DEC.2020 08:01:31

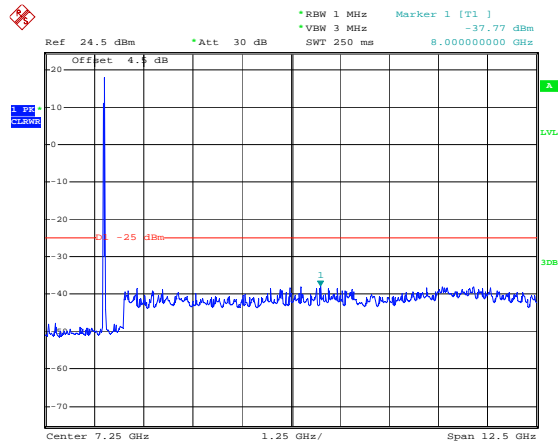
### 10M, QPSK, Low Channel



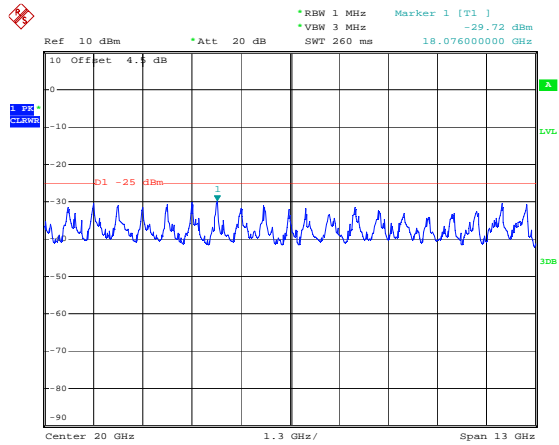
Date: 10.DEC.2020 08:06:36



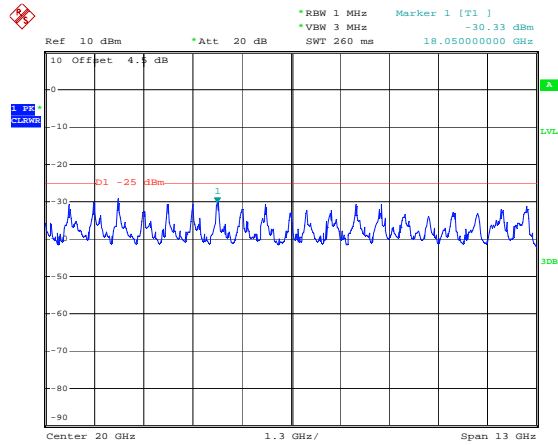
Date: 10.DEC.2020 08:02:04



Date: 10.DEC.2020 08:07:13

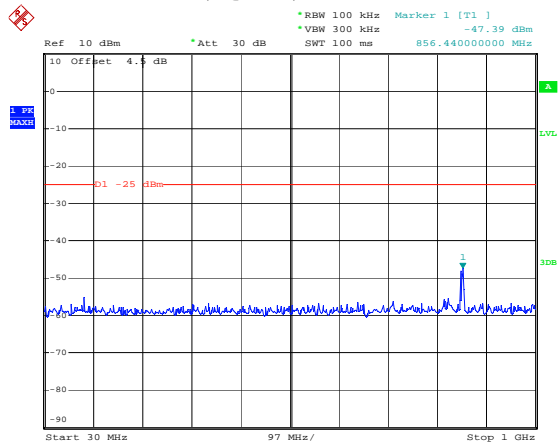


Date: 10.DEC.2020 08:02:30



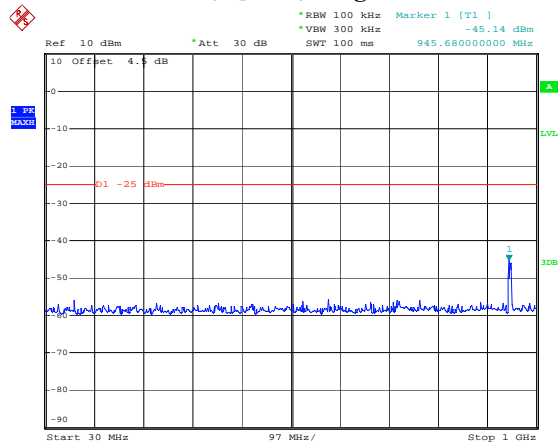
Date: 10.DEC.2020 08:07:37

10M, QPSK, Middle Channel

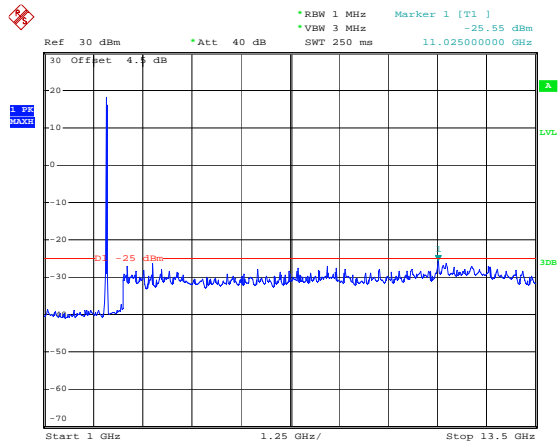


Date: 10.DEC.2020 08:37:19

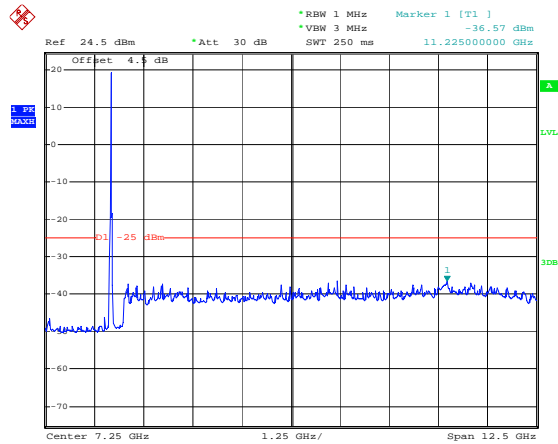
10M, QPSK, High Channel



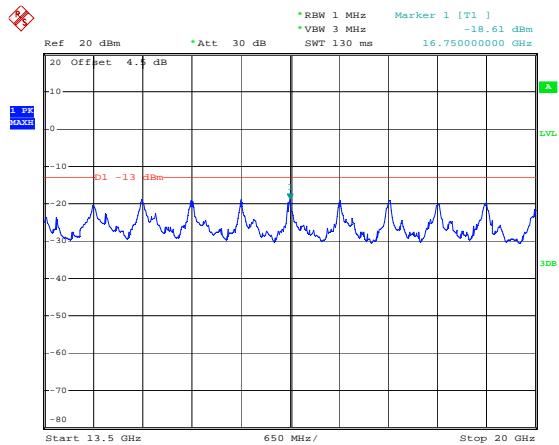
Date: 10.DEC.2020 08:14:07



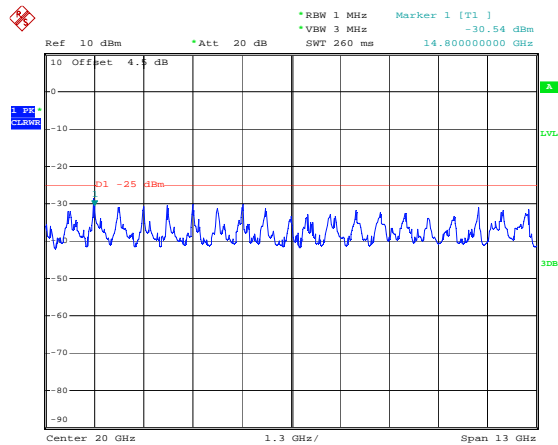
Date: 10.DEC.2020 08:37:32



Date: 10.DEC.2020 08:14:52



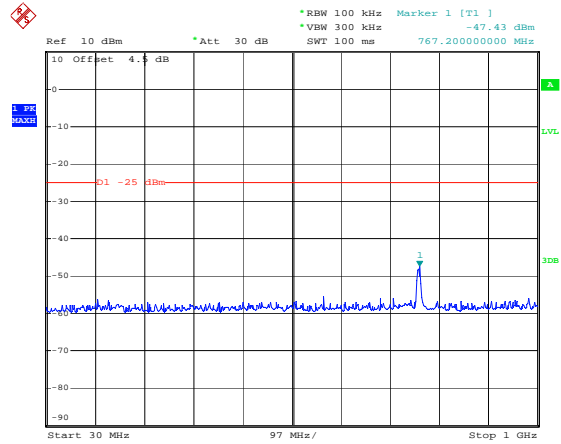
Date: 12.DEC.2020 16:35:36



Date: 10.DEC.2020 08:15:19

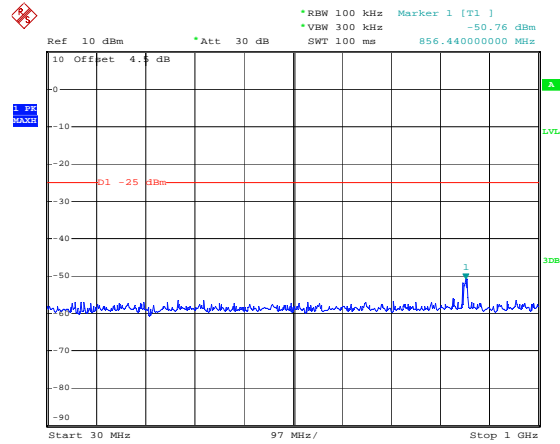


### 15M, QPSK, Low Channel

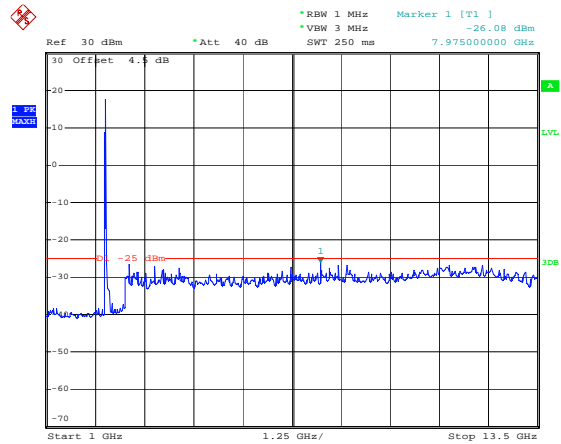


Date: 10.DEC.2020 08:18:53

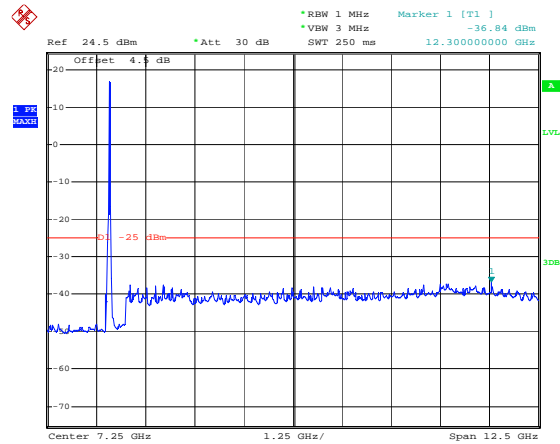
### 15M, QPSK, Middle Channel



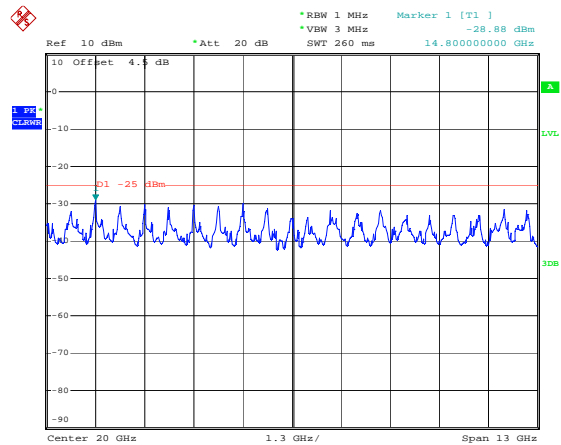
Date: 10.DEC.2020 08:23:47



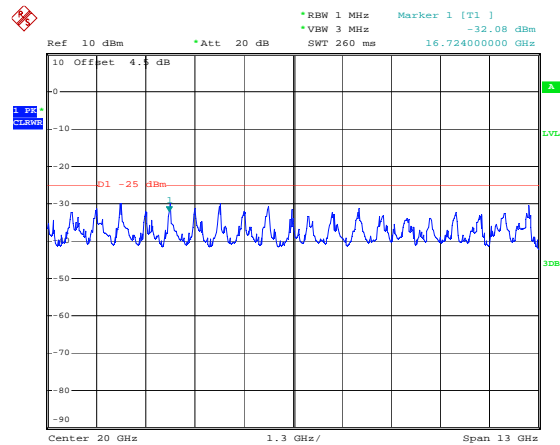
Date: 10.DEC.2020 08:19:06



Date: 10.DEC.2020 08:24:22

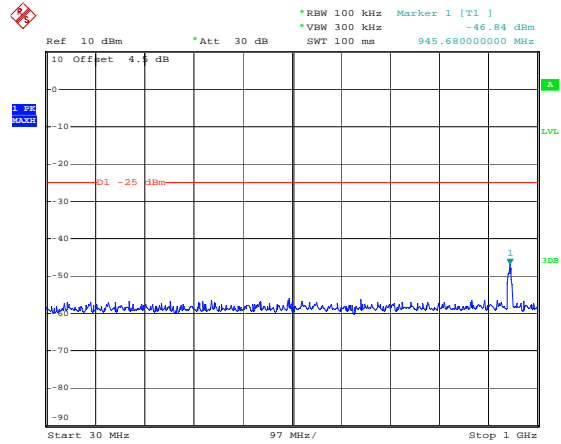


Date: 10.DEC.2020 08:23:27



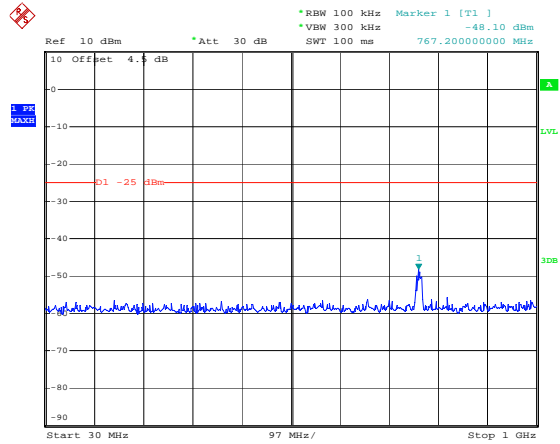
Date: 10.DEC.2020 08:24:46

### 15M, QPSK, High Channel

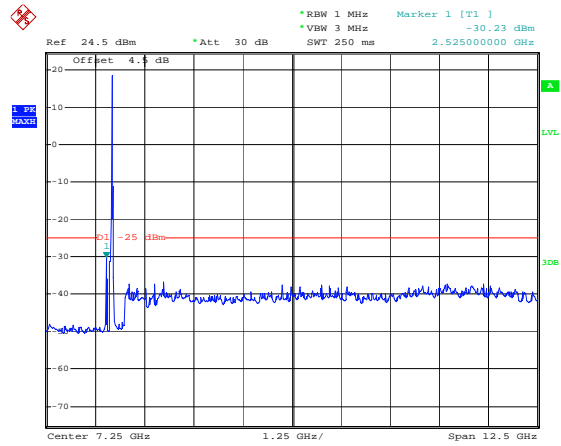


Date: 10.DEC.2020 08:25:10

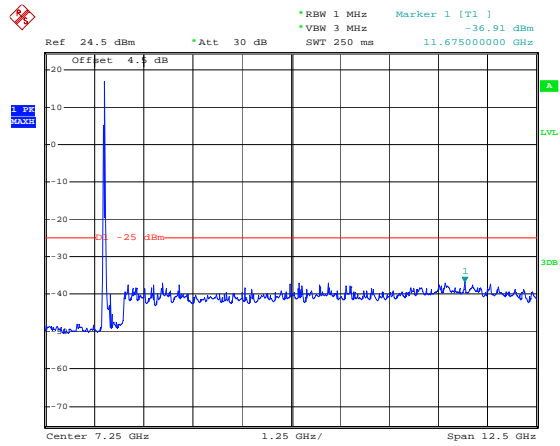
### 20M, QPSK, Low Channel



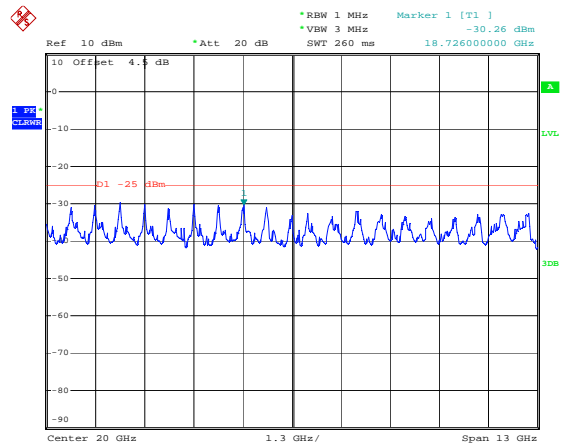
Date: 10.DEC.2020 08:29:00



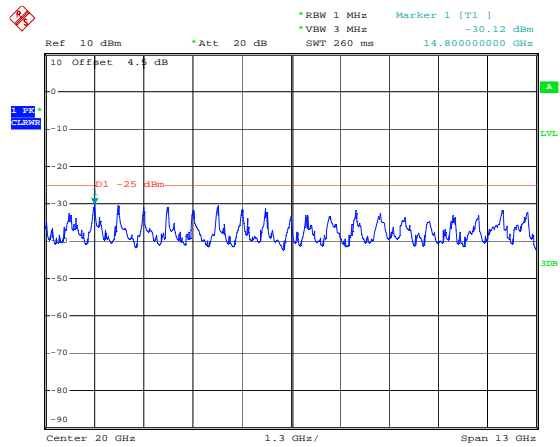
Date: 10.DEC.2020 08:25:39



Date: 10.DEC.2020 08:29:32

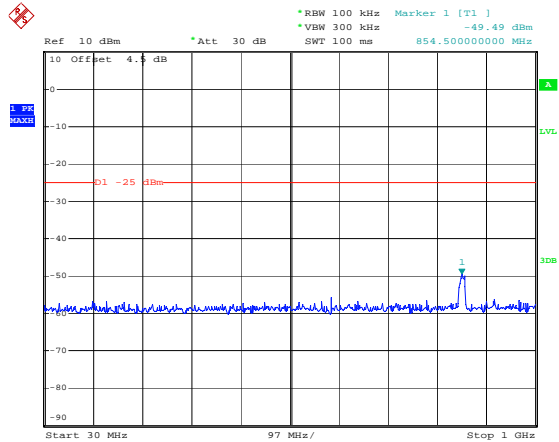


Date: 10.DEC.2020 08:26:03



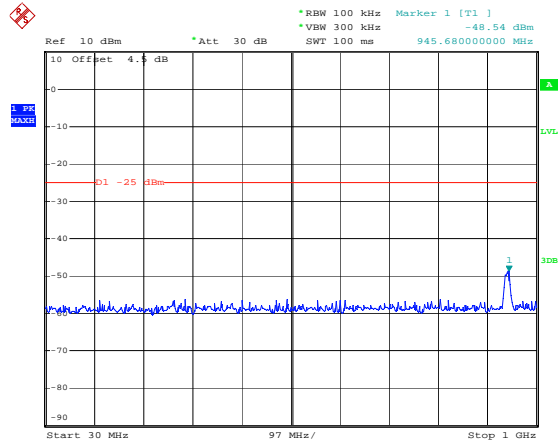
Date: 10.DEC.2020 08:29:57

### 20M, QPSK, Middle Channel

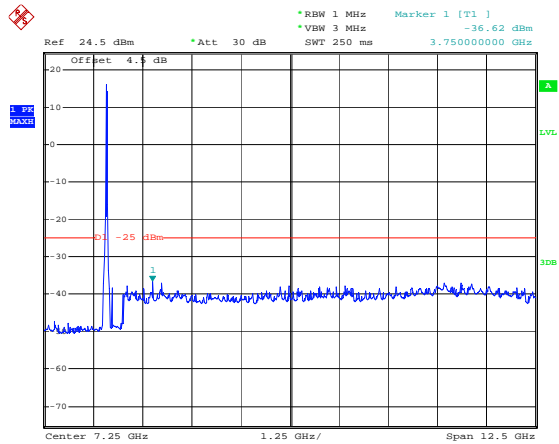


Date: 10.DEC.2020 08:30:17

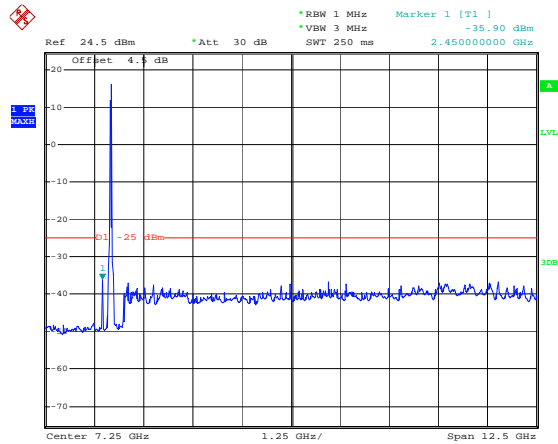
### 20M, QPSK, High Channel



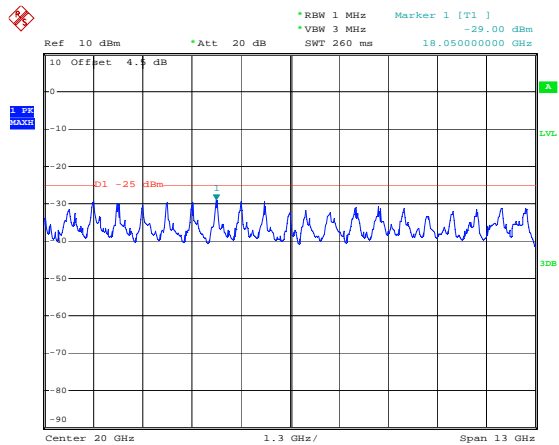
Date: 10.DEC.2020 08:32:07



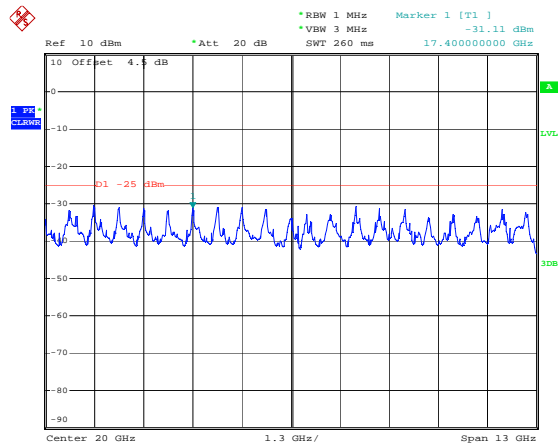
Date: 10.DEC.2020 08:31:06



Date: 10.DEC.2020 08:32:40



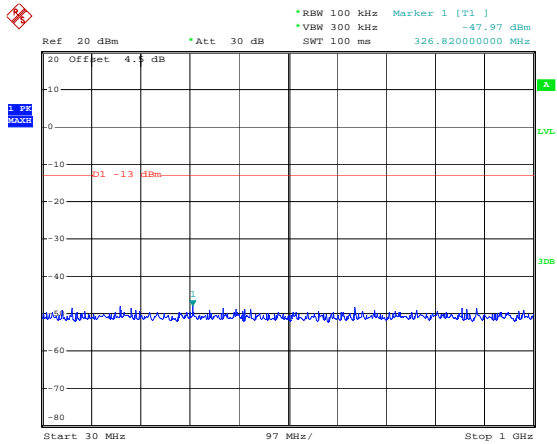
Date: 10.DEC.2020 08:31:46



Date: 10.DEC.2020 08:33:05

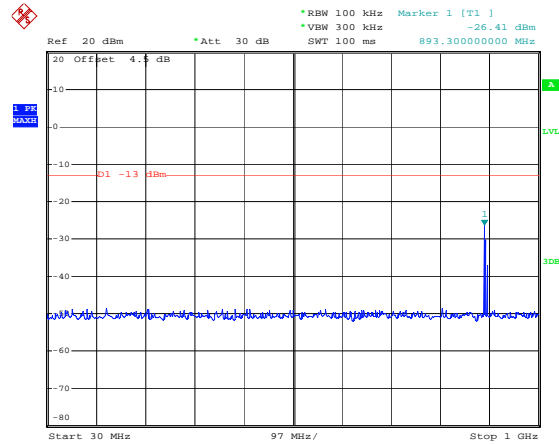
LTE Band 66:

1.4M, QPSK, Low Channel

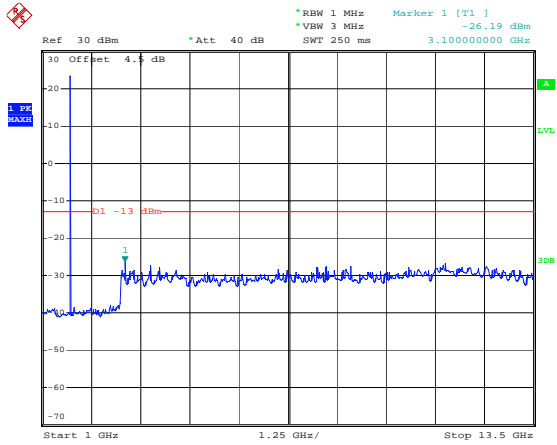


Date: 8.DEC.2020 16:44:29

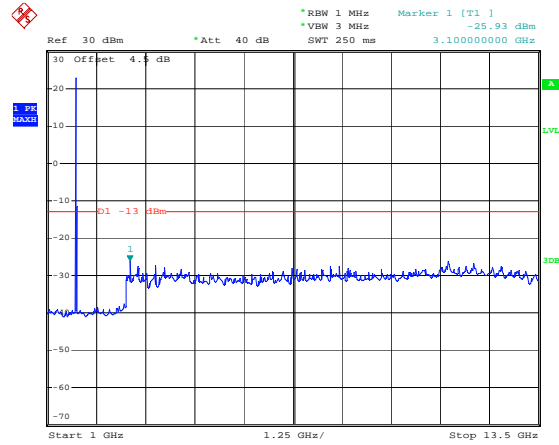
1.4M, QPSK, Middle Channel



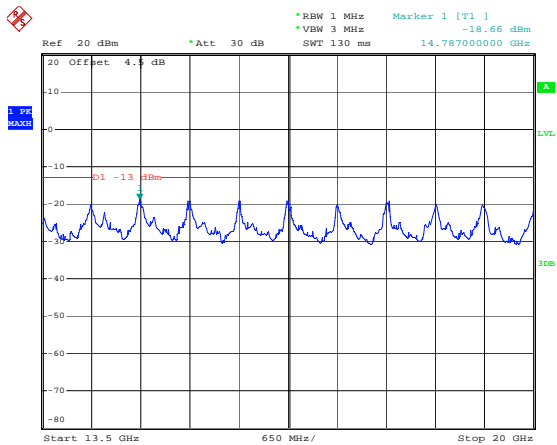
Date: 8.DEC.2020 16:45:16



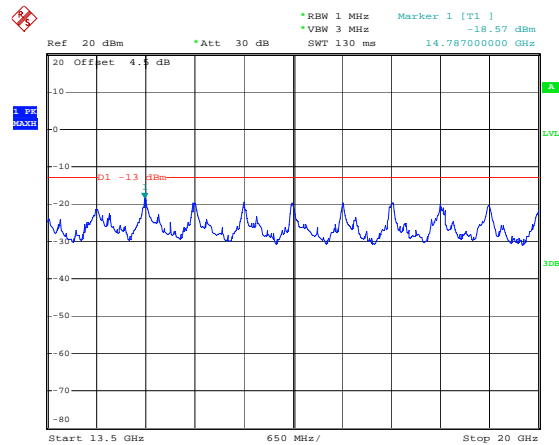
Date: 8.DEC.2020 16:44:42



Date: 8.DEC.2020 16:45:29

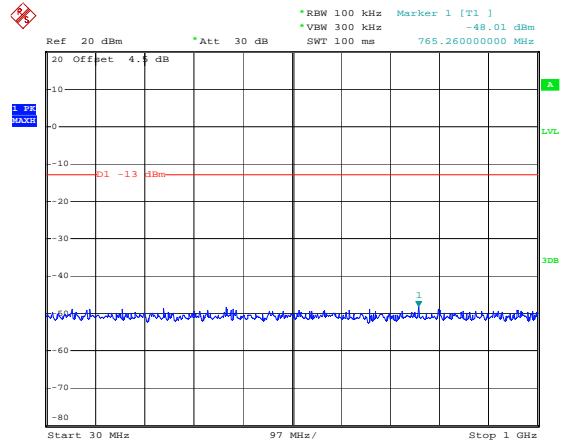


Date: 8.DEC.2020 16:44:55



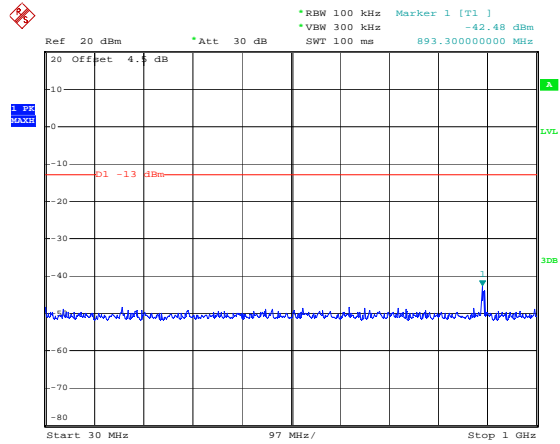
Date: 8.DEC.2020 16:45:42

### 1.4M, QPSK, High Channel

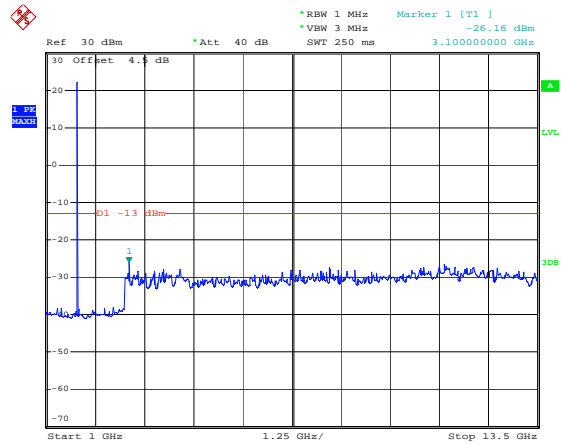


Date: 8.DEC.2020 16:45:59

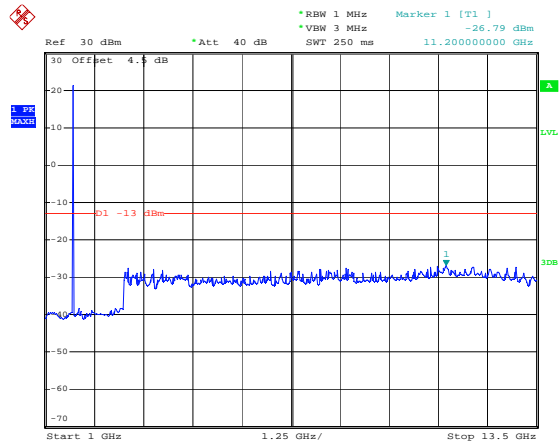
### 3M, QPSK, Low Channel



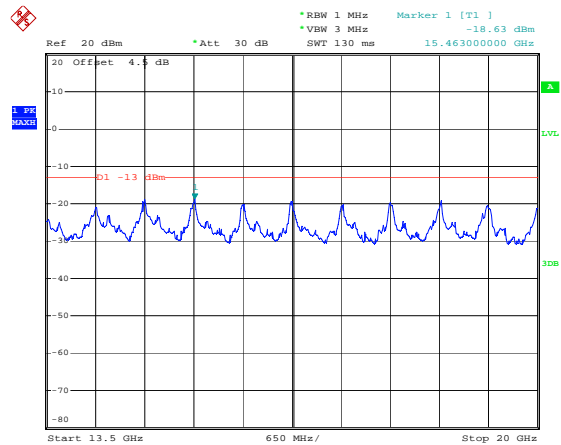
Date: 8.DEC.2020 16:46:49



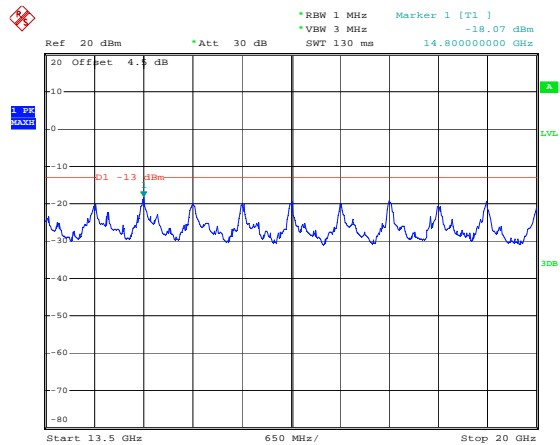
Date: 8.DEC.2020 16:46:12



Date: 8.DEC.2020 16:47:02

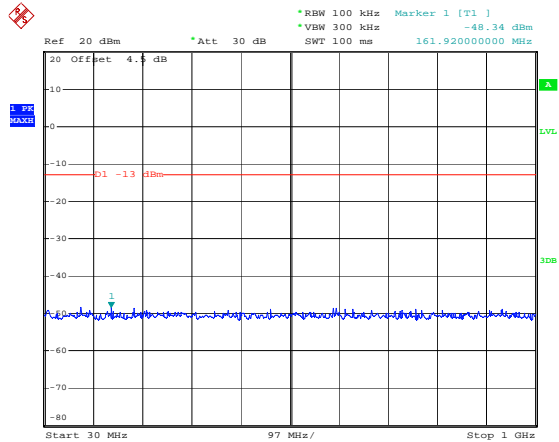


Date: 8.DEC.2020 16:46:25



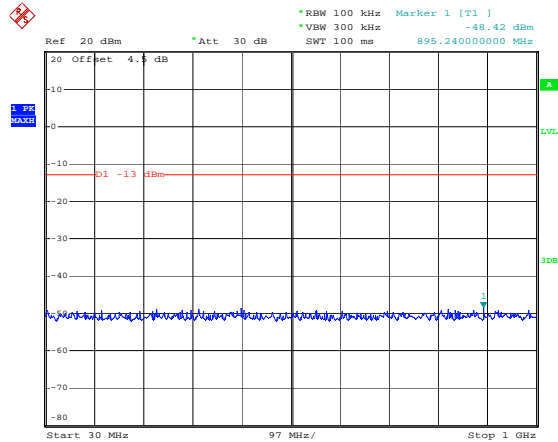
Date: 8.DEC.2020 16:47:15

### 3M, QPSK, Middle Channel

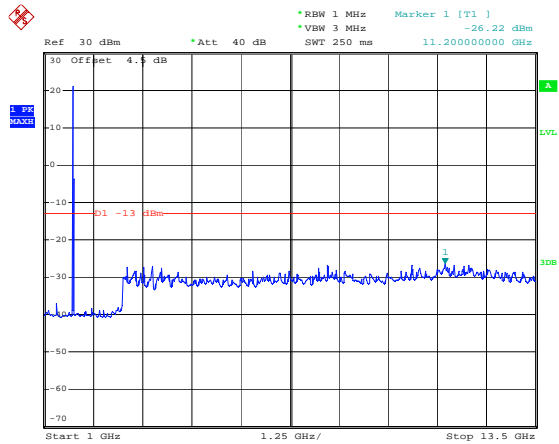


Date: 8.DEC.2020 16:47:35

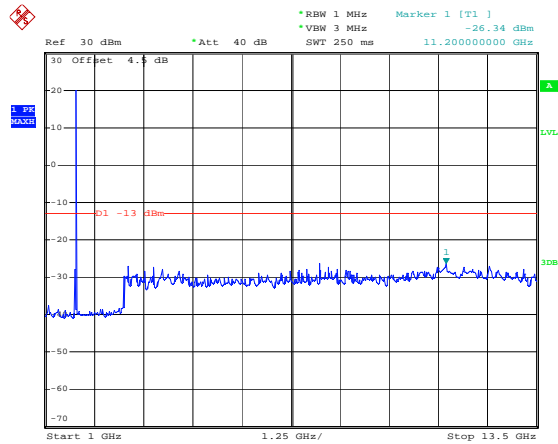
### 3M, QPSK, High Channel



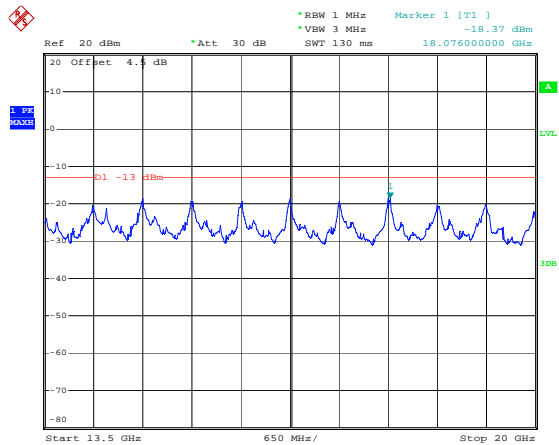
Date: 8.DEC.2020 16:48:18



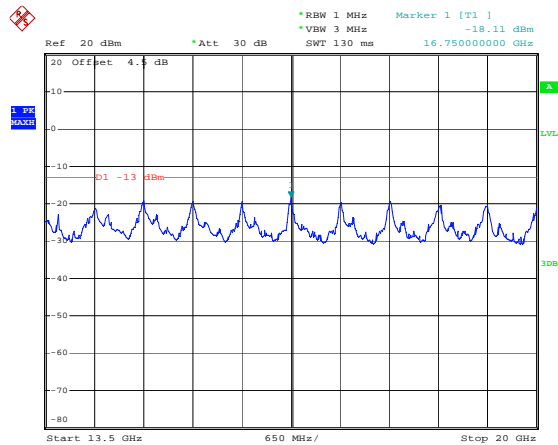
Date: 8.DEC.2020 16:47:48



Date: 8.DEC.2020 16:48:31

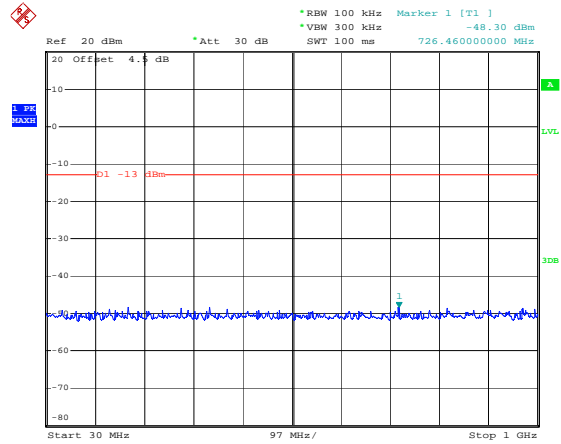


Date: 8.DEC.2020 16:48:01



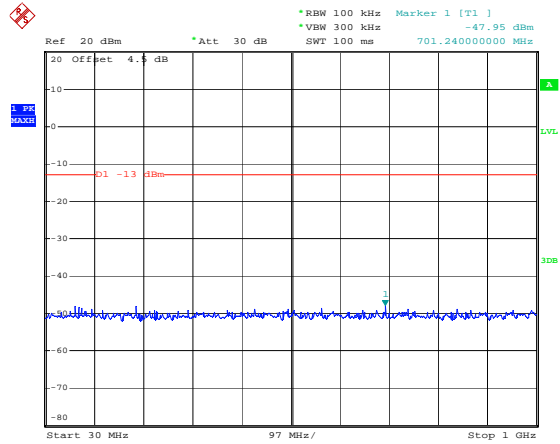
Date: 8.DEC.2020 16:48:44

### 5M, QPSK, Low Channel

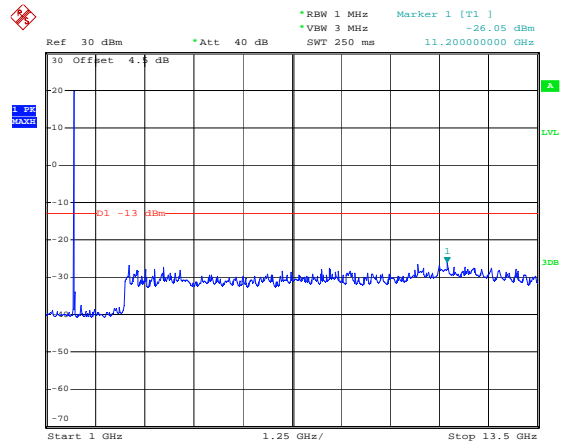


Date: 8.DEC.2020 16:49:08

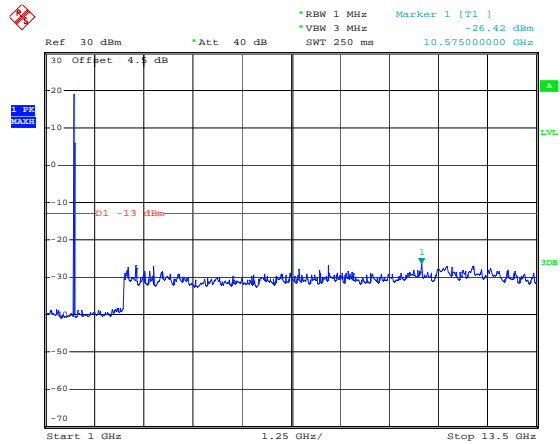
### 5M, QPSK, Middle Channel



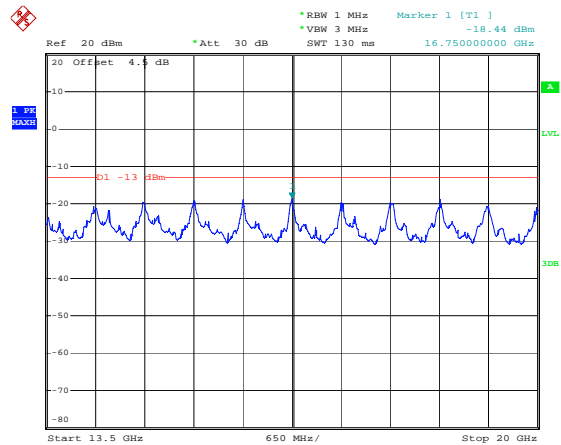
Date: 8.DEC.2020 16:49:54



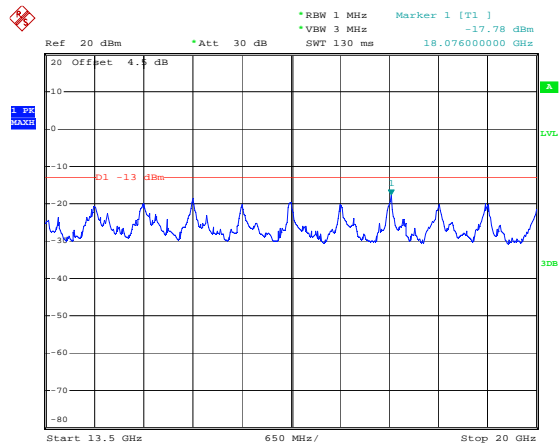
Date: 8.DEC.2020 16:49:21



Date: 8.DEC.2020 16:50:07

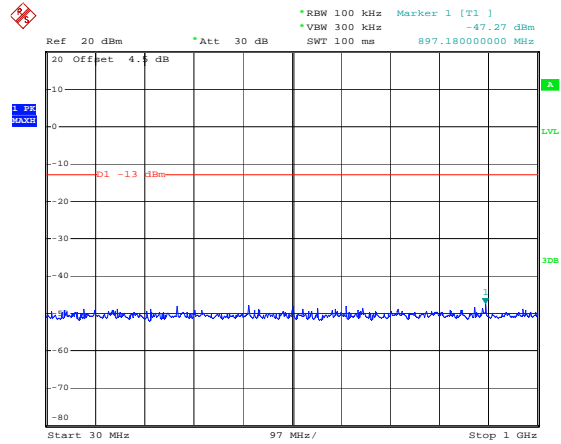


Date: 8.DEC.2020 16:49:34



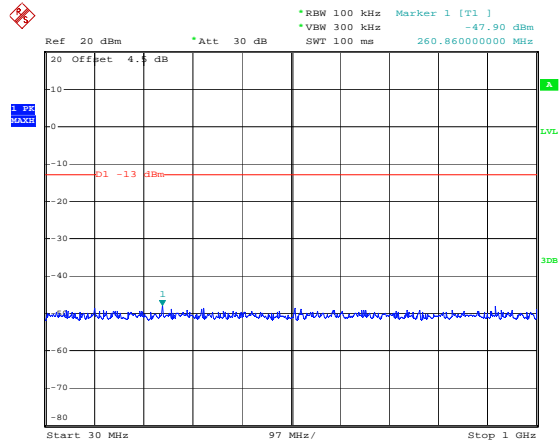
Date: 8.DEC.2020 16:50:20

### 5M, QPSK, High Channel

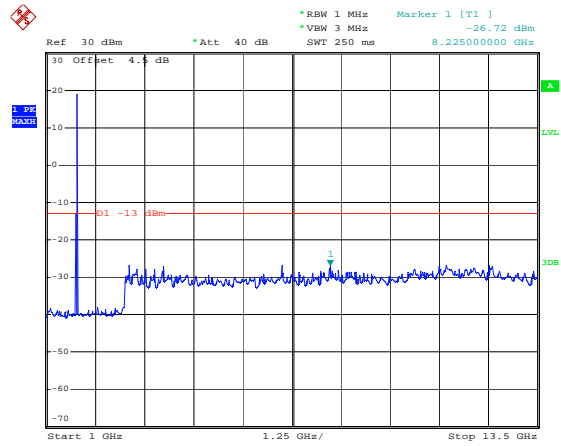


Date: 8.DEC.2020 16:50:40

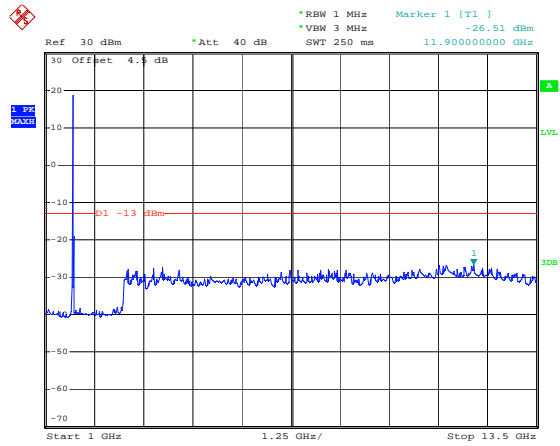
### 10M, QPSK, Low Channel



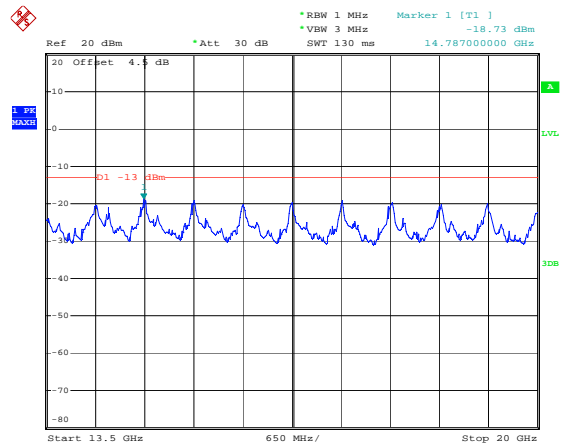
Date: 8.DEC.2020 16:51:31



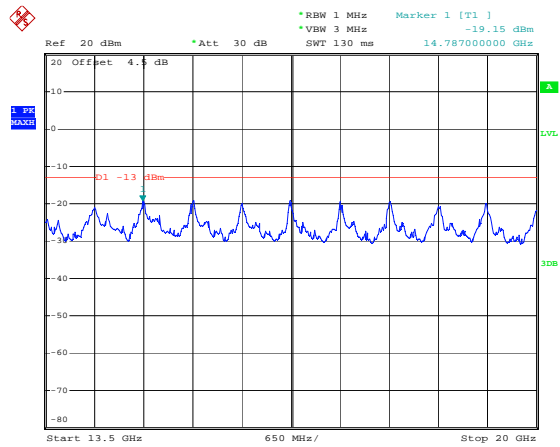
Date: 8.DEC.2020 16:50:53



Date: 8.DEC.2020 16:51:44



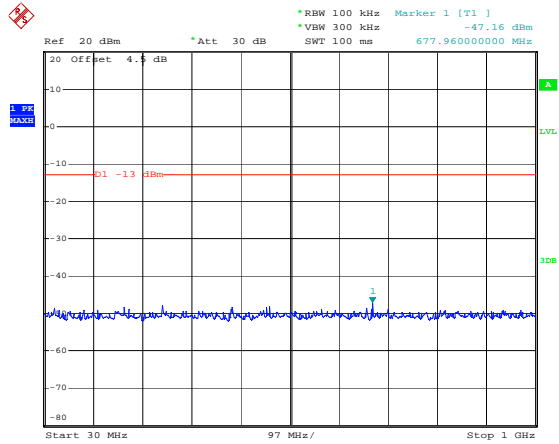
Date: 8.DEC.2020 16:51:06



Date: 8.DEC.2020 16:51:57

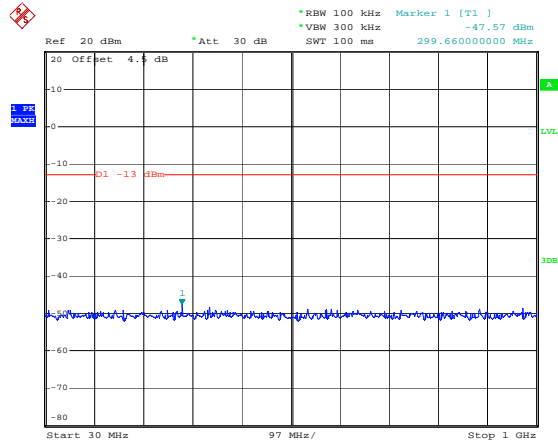


### 10M, QPSK, Middle Channel

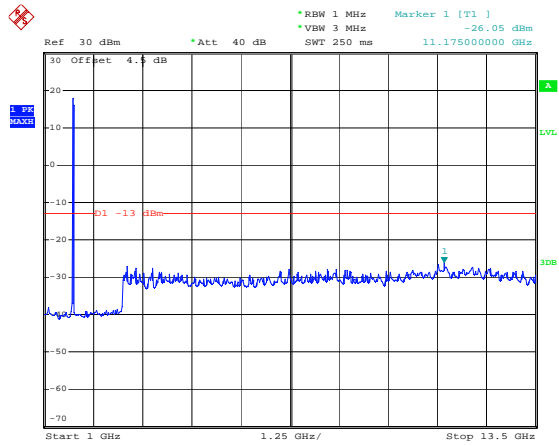


Date: 8.DEC.2020 16:52:18

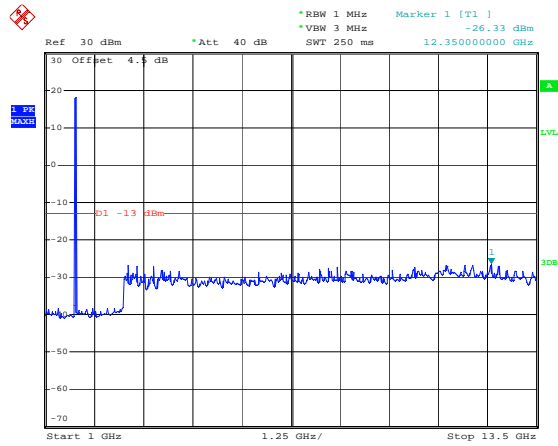
### 10M, QPSK, High Channel



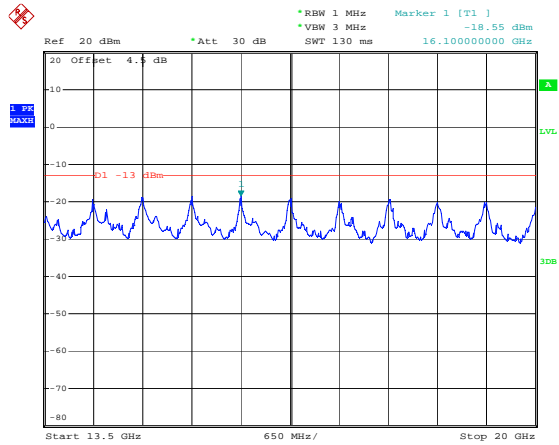
Date: 8.DEC.2020 16:53:06



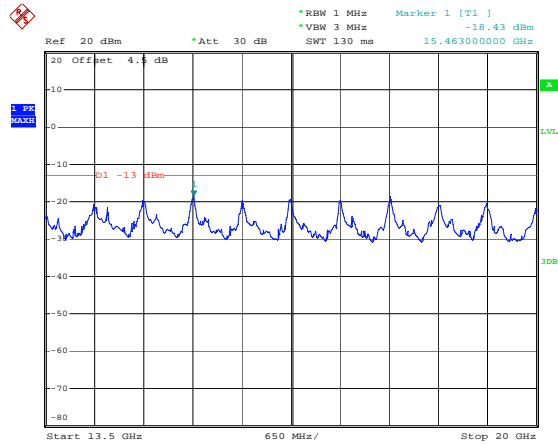
Date: 8.DEC.2020 16:52:31



Date: 8.DEC.2020 16:53:19

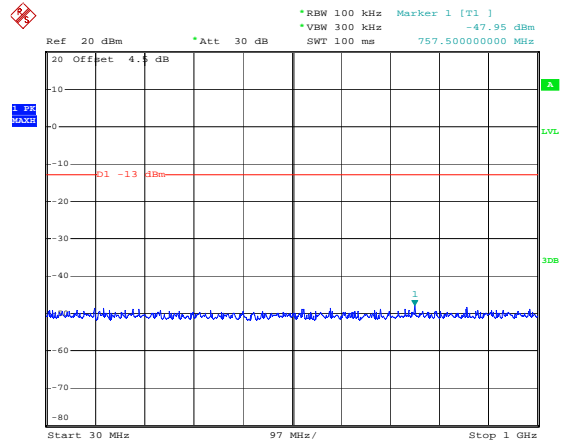


Date: 8.DEC.2020 16:52:44



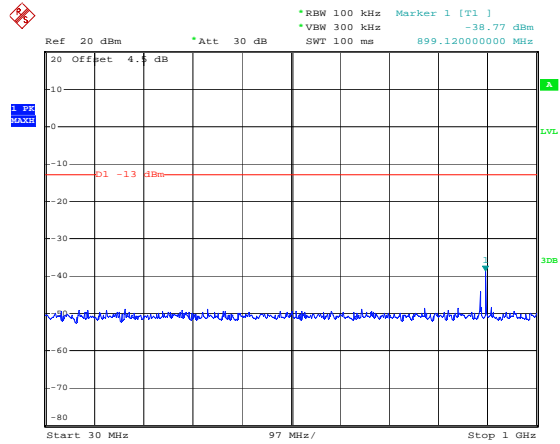
Date: 8.DEC.2020 16:53:31

### 15M, QPSK, Low Channel

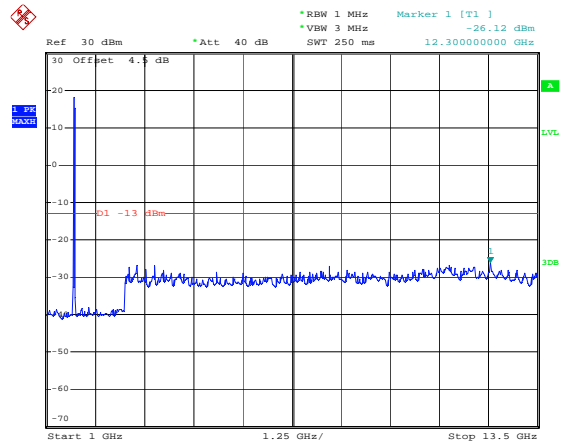


Date: 8.DEC.2020 16:53:59

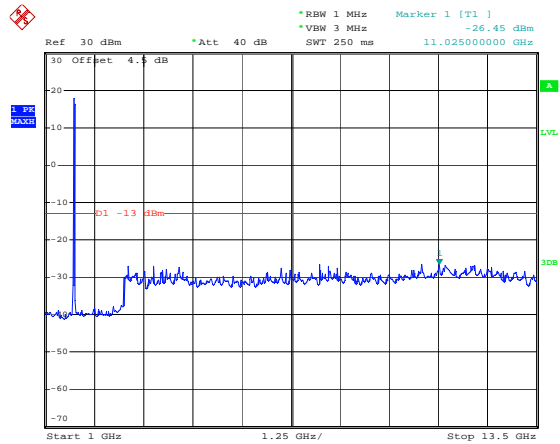
### 15M, QPSK, Middle Channel



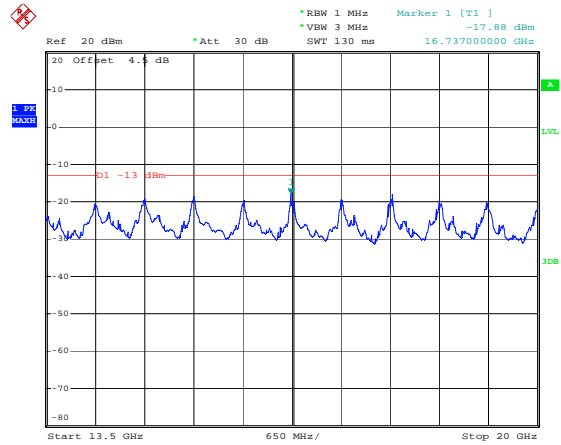
Date: 8.DEC.2020 16:54:46



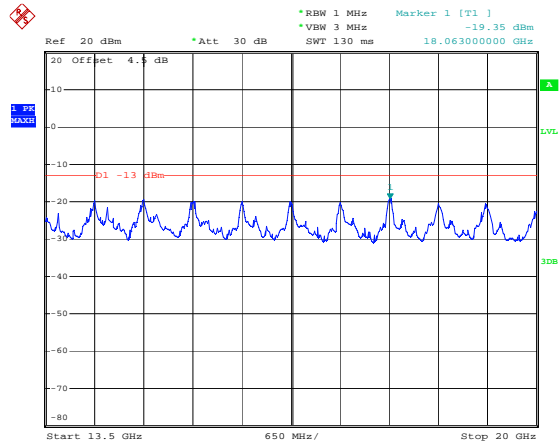
Date: 8.DEC.2020 16:54:12



Date: 8.DEC.2020 16:54:59

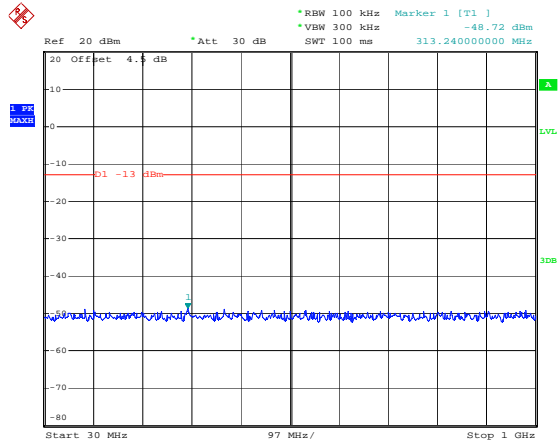


Date: 8.DEC.2020 16:54:25



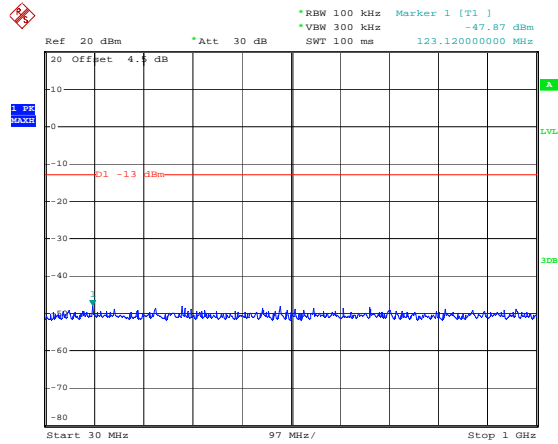
Date: 8.DEC.2020 16:55:12

### 15M, QPSK, High Channel

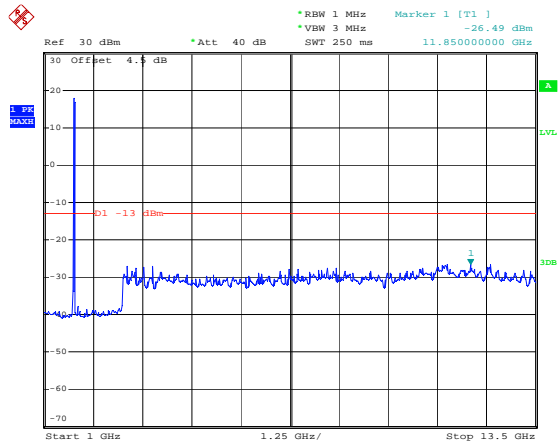


Date: 8.DEC.2020 16:55:32

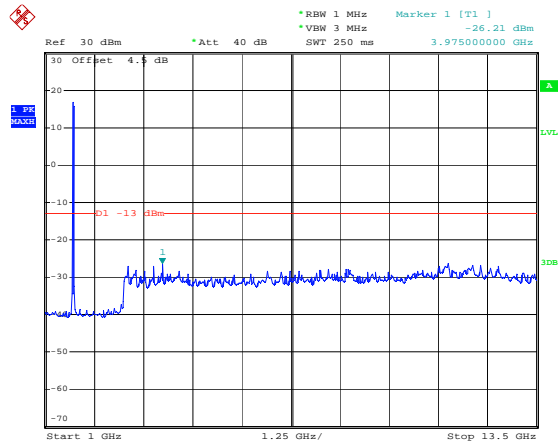
### 20M, QPSK, Low Channel



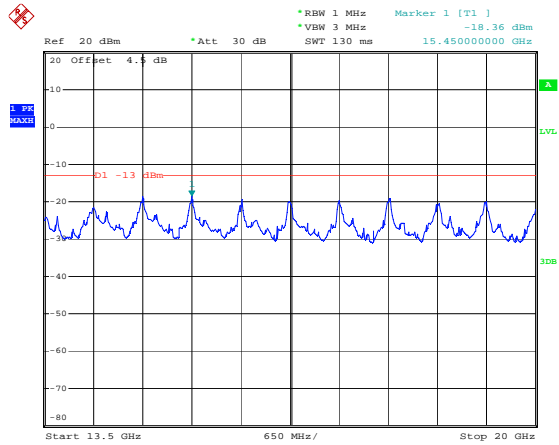
Date: 8.DEC.2020 16:56:24



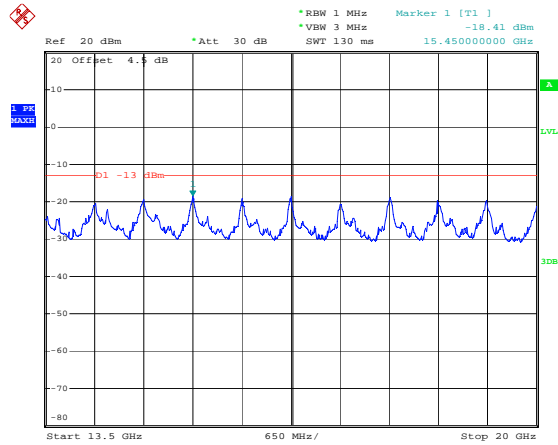
Date: 8.DEC.2020 16:55:45



Date: 8.DEC.2020 16:56:37

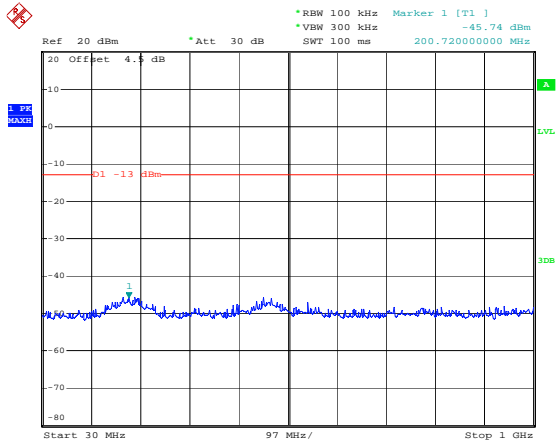


Date: 8.DEC.2020 16:55:58



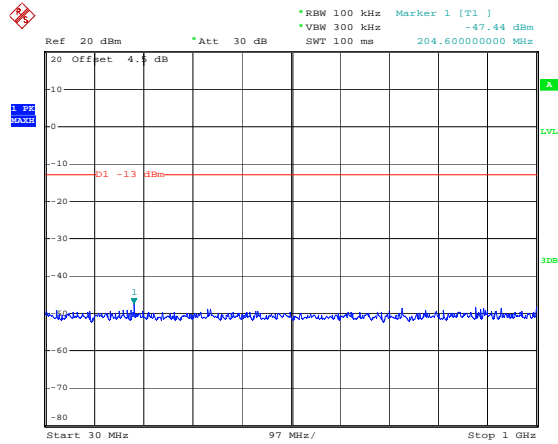
Date: 8.DEC.2020 16:56:50

### 20M, QPSK, Middle Channel

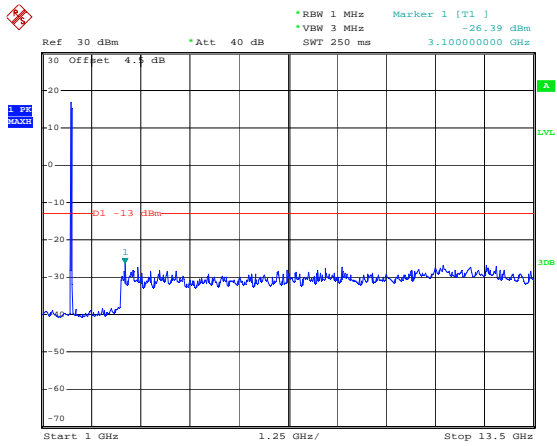


Date: 8.DEC.2020 16:57:11

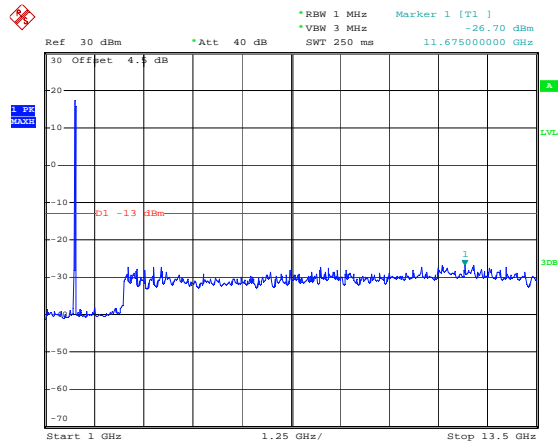
### 20M, QPSK, High Channel



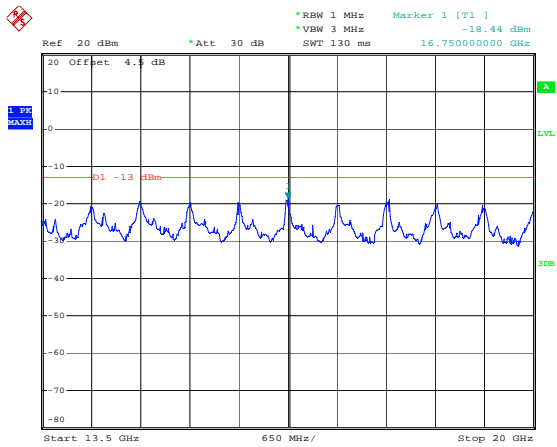
Date: 8.DEC.2020 16:57:57



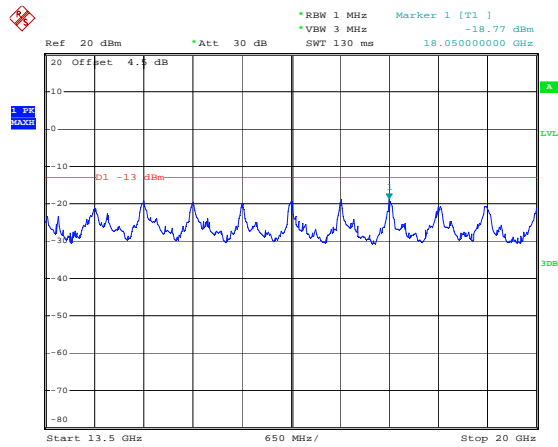
Date: 8.DEC.2020 16:57:24



Date: 8.DEC.2020 16:58:10



Date: 8.DEC.2020 16:57:36



Date: 8.DEC.2020 16:58:23

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**FCC §2.1053, §22.917 & §24.238 & §27.53 & §90.691 - SPURIOUS RADIATED EMISSIONS**

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**Applicable Standard**

FCC § 2.1053, §22.917, § 24.238 and § 27.53, §90.691;

**Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \lg (\text{TXpwr in Watts}/0.001)$  – the absolute level

Spurious attenuation limit in dB =  $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06
HP	Amplifier	8447D	2727A05902	2020-09-05	2021-09-05
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2019-12-10	2020-12-10
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
R&S	Spectrum Analyzer	FSP 38	100478	2020-07-07	2021-07-07
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26EA	2020-09-25	2021-09-25
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2020-09-05	2021-09-05
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2017-12-06	2020-12-05
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-12-06	2020-12-05
Sinoscite	Band-stop filter	BSF1850-1910MS-0935V2	0935V2	2020-06-16	2021-06-16
Sinoscite	Band-stop filter	BSF2500-2750MS-1439-001	1437001	2020-06-16	2021-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2020-06-16	2021-06-16
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2020-06-27	2021-06-27
Sinoscite	Band-stop filter	BSF824-862MS-1438-001	1438001	2020-06-16	2021-06-16
Sinoscite	Band-stop filter	BSF1710-1785MN-0383-003	0383003	2020-06-16	2021-06-16
Sinoscite	Band-stop filter	BSF2300-2400MS-0777-003	0777003	2020-06-16	2021-06-16

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data****Environmental Conditions**

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	27.8°C	25.3°C
Relative Humidity:	42 %	41%
ATM Pressure:	101kPa	101.9kPa
Tester:	Joker Chen	Jalon Liu
Test Date:	2020-09-20	2020-10-30

Test Result: Compliance.

EUT Operation Mode: Transmitting

**Cellular Band (PART 22H)****30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 850 Frequency:824.2MHz								
1648.40	H	37.44	-66.97	10.45	1.28	-57.80	-13.00	44.80
1648.40	V	40.67	-63.67	10.45	1.28	-54.50	-13.00	41.50
2472.60	H	57.00	-45.86	12.16	1.23	-34.93	-13.00	21.93
2472.60	V	57.89	-46.31	12.16	1.23	-35.38	-13.00	22.38
3296.80	H	36.33	-64.95	12.28	1.57	-54.24	-13.00	41.24
3296.80	V	37.83	-62.52	12.28	1.57	-51.81	-13.00	38.81
411.10	H	35.79	-68.96	0.00	0.62	-69.58	-13.00	56.58
54.60	V	40.78	-63.37	-12.78	0.22	-76.37	-13.00	63.37
GPRS 850 Frequency:836.6MHz								
1673.20	H	41.54	-62.84	10.52	1.27	-53.59	-13.00	40.59
1673.20	V	41.60	-62.71	10.52	1.27	-53.46	-13.00	40.46
2509.80	H	60.67	-42.10	12.20	1.25	-31.15	-13.00	18.15
2509.80	V	60.48	-43.68	12.20	1.25	-32.73	-13.00	19.73
3346.40	H	37.15	-64.04	12.26	1.58	-53.36	-13.00	40.36
3346.40	V	37.46	-62.66	12.26	1.58	-51.98	-13.00	38.98
540.00	H	35.57	-67.82	0.00	0.73	-68.55	-13.00	55.55
53.20	V	40.28	-63.03	-13.43	0.22	-76.68	-13.00	63.68
GPRS 850 Frequency:848.8MHz								
1697.60	H	41.65	-62.70	10.59	1.26	-53.37	-13.00	40.37
1697.60	V	41.34	-62.95	10.59	1.26	-53.62	-13.00	40.62
2546.40	H	62.66	-40.04	12.22	1.26	-29.08	-13.00	16.08
2546.40	V	62.11	-41.87	12.22	1.26	-30.91	-13.00	17.91
3395.20	H	36.35	-64.75	12.24	1.59	-54.10	-13.00	41.10
3395.20	V	38.15	-61.74	12.24	1.59	-51.09	-13.00	38.09
708.70	H	35.81	-65.38	0.00	0.94	-66.32	-13.00	53.32
30.70	V	41.76	-27.47	-25.98	0.27	-53.72	-13.00	40.72

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	34.84	-69.56	10.46	1.28	-60.38	-13.00	47.38
1652.80	V	36.60	-67.73	10.46	1.28	-58.55	-13.00	45.55
2479.20	H	44.57	-58.27	12.17	1.24	-47.34	-13.00	34.34
2479.20	V	44.96	-59.24	12.17	1.24	-48.31	-13.00	35.31
3305.60	H	37.24	-64.03	12.28	1.57	-53.32	-13.00	40.32
3305.60	V	37.58	-62.73	12.28	1.57	-52.02	-13.00	39.02
676.20	H	36.56	-65.04	0.00	0.90	-65.94	-13.00	52.94
672.20	V	41.99	-62.32	0.00	0.89	-63.21	-13.00	50.21
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	36.07	-68.31	10.52	1.27	-59.06	-13.00	46.06
1673.20	V	36.34	-67.97	10.52	1.27	-58.72	-13.00	45.72
2509.80	H	40.26	-62.51	12.20	1.25	-51.56	-13.00	38.56
2509.80	V	45.54	-58.62	12.20	1.25	-47.67	-13.00	34.67
3346.40	H	37.40	-63.79	12.26	1.58	-53.11	-13.00	40.11
3346.40	V	37.62	-62.50	12.26	1.58	-51.82	-13.00	38.82
710.20	H	36.43	-64.72	0.00	0.94	-65.66	-13.00	52.66
634.30	V	43.58	-61.30	0.00	0.82	-62.12	-13.00	49.12
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	34.54	-69.82	10.58	1.26	-60.50	-13.00	47.50
1693.20	V	35.54	-68.75	10.58	1.26	-59.43	-13.00	46.43
2539.80	H	39.30	-63.41	12.22	1.26	-52.45	-13.00	39.45
2539.80	V	39.35	-64.66	12.22	1.26	-53.70	-13.00	40.70
3386.40	H	37.21	-63.90	12.25	1.59	-53.24	-13.00	40.24
3386.40	V	37.57	-62.36	12.25	1.59	-51.70	-13.00	38.70
592.60	H	36.85	-65.44	0.00	0.76	-66.20	-13.00	53.20
64.30	V	41.52	-68.58	-8.02	0.23	-76.83	-13.00	63.83



**PCS Band (PART 24E)****30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GPRS 1900 Frequency:1850.2MHz								
3700.40	H	37.29	-63.08	12.24	1.55	-52.39	-13.00	39.39
3700.40	V	36.42	-63.37	12.24	1.55	-52.68	-13.00	39.68
5550.60	H	47.63	-47.83	12.87	1.26	-36.22	-13.00	23.22
5550.60	V	47.96	-47.90	12.87	1.26	-36.29	-13.00	23.29
394.30	H	35.66	-69.37	0.00	0.60	-69.97	-13.00	56.97
632.90	V	49.55	-55.35	0.00	0.82	-56.17	-13.00	43.17
GPRS 1900 Frequency:1880MHz								
3760.00	H	38.22	-61.99	12.25	1.53	-51.27	-13.00	38.27
3760.00	V	36.86	-63.05	12.25	1.53	-52.33	-13.00	39.33
5640.00	H	44.01	-51.29	13.00	1.28	-39.57	-13.00	26.57
5640.00	V	45.65	-49.96	13.00	1.28	-38.24	-13.00	25.24
362.00	H	35.73	-70.54	0.00	0.58	-71.12	-13.00	58.12
672.20	V	44.41	-59.90	0.00	0.89	-60.79	-13.00	47.79
GPRS 1900 Frequency:1909.8MHz								
3819.60	H	36.61	-63.44	12.26	1.51	-52.69	-13.00	39.69
3819.60	V	36.12	-63.91	12.26	1.51	-53.16	-13.00	40.16
5729.40	H	49.63	-45.51	13.12	1.31	-33.70	-13.00	20.70
5729.40	V	48.52	-46.83	13.12	1.31	-35.02	-13.00	22.02
474.30	H	35.51	-68.87	0.00	0.68	-69.55	-13.00	56.55
634.30	V	42.34	-62.54	0.00	0.82	-63.36	-13.00	50.36

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
3704.80	H	39.33	-61.03	12.24	1.54	-50.33	-13.00	37.33
3704.80	V	36.67	-63.13	12.24	1.54	-52.43	-13.00	39.43
5557.20	H	37.87	-57.58	12.88	1.26	-45.96	-13.00	32.96
5557.20	V	39.66	-56.18	12.88	1.26	-44.56	-13.00	31.56
362.00	H	36.59	-69.68	0.00	0.58	-70.26	-13.00	57.26
53.20	V	39.80	-63.51	-13.43	0.22	-77.16	-13.00	64.16
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	40.27	-59.94	12.25	1.53	-49.22	-13.00	36.22
3760.00	V	36.67	-63.24	12.25	1.53	-52.52	-13.00	39.52
5640.00	H	37.29	-58.01	13.00	1.28	-46.29	-13.00	33.29
5640.00	V	39.86	-55.75	13.00	1.28	-44.03	-13.00	31.03
538.90	H	35.89	-67.52	0.00	0.73	-68.25	-13.00	55.25
54.60	V	40.39	-63.76	-12.78	0.22	-76.76	-13.00	63.76
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	41.15	-58.91	12.26	1.51	-48.16	-13.00	35.16
3815.20	V	37.01	-63.01	12.26	1.51	-52.26	-13.00	39.26
5722.80	H	36.38	-58.77	13.11	1.31	-46.97	-13.00	33.97
5722.80	V	37.05	-58.32	13.11	1.31	-46.52	-13.00	33.52
478.50	H	35.32	-69.03	0.00	0.69	-69.72	-13.00	56.72
50.40	V	40.28	-61.35	-14.72	0.21	-76.28	-13.00	63.28

## Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

**LTE Band 2 (30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1850.7 MHz								
3701.40	H	42.97	-57.39	12.24	1.55	-46.70	-13.00	33.70
3701.40	V	37.58	-62.21	12.24	1.55	-51.52	-13.00	38.52
5552.10	H	41.28	-54.18	12.87	1.26	-42.57	-13.00	29.57
5552.10	V	38.37	-57.48	12.87	1.26	-45.87	-13.00	32.87
960.00	H	36.83	-57.81	0.00	0.86	-58.67	-13.00	45.67
960.00	V	35.78	-60.45	0.00	0.86	-61.31	-13.00	48.31
QPSK, Frequency: 1880 MHz								
3760.00	H	40.80	-59.41	12.25	1.53	-48.69	-13.00	35.69
3760.00	V	36.72	-63.19	12.25	1.53	-52.47	-13.00	39.47
5640.00	H	39.15	-56.15	13.00	1.28	-44.43	-13.00	31.43
5640.00	V	44.07	-51.54	13.00	1.28	-39.82	-13.00	26.82
960.00	H	36.93	-57.71	0.00	0.86	-58.57	-13.00	45.57
960.00	V	35.53	-60.70	0.00	0.86	-61.56	-13.00	48.56
QPSK, Frequency: 1909.3 MHz								
3818.60	H	41.97	-58.08	12.26	1.51	-47.33	-13.00	34.33
3818.60	V	38.46	-61.56	12.26	1.51	-50.81	-13.00	37.81
5727.90	H	36.80	-58.34	13.12	1.31	-46.53	-13.00	33.53
5727.90	V	39.39	-55.97	13.12	1.31	-44.16	-13.00	31.16
960.00	H	36.70	-57.94	0.00	0.86	-58.80	-13.00	45.80
960.00	V	35.66	-60.57	0.00	0.86	-61.43	-13.00	48.43

**LTE Band 4 (30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	41.86	-59.19	12.23	1.59	-48.55	-13.00	35.55
3421.40	V	39.43	-60.34	12.23	1.59	-49.70	-13.00	36.70
5132.10	H	37.72	-58.48	12.95	1.39	-46.92	-13.00	33.92
5132.10	V	36.33	-59.74	12.95	1.39	-48.18	-13.00	35.18
960.00	H	36.48	-58.16	0.00	0.86	-59.02	-13.00	46.02
809.80	V	36.44	-65.65	0.00	0.94	-66.59	-13.00	53.59
QPSK, Frequency: 1732.5 MHz								
3465.00	H	39.45	-61.52	12.21	1.60	-50.91	-13.00	37.91
3465.00	V	40.25	-59.31	12.21	1.60	-48.70	-13.00	35.70
5197.50	H	37.68	-58.40	12.92	1.36	-46.84	-13.00	33.84
5197.50	V	44.62	-51.43	12.92	1.36	-39.87	-13.00	26.87
687.70	H	42.77	-58.75	0.00	0.92	-59.67	-13.00	46.67
800.00	V	36.91	-65.50	0.00	0.93	-66.43	-13.00	53.43
QPSK, Frequency: 1754.3 MHz								
3508.60	H	43.56	-57.32	12.20	1.61	-46.73	-13.00	33.73
3508.60	V	43.02	-56.40	12.20	1.61	-45.81	-13.00	32.81
5262.90	H	36.96	-59.01	12.89	1.33	-47.45	-13.00	34.45
5262.90	V	38.17	-57.87	12.89	1.33	-46.31	-13.00	33.31
687.70	H	42.85	-58.67	0.00	0.92	-59.59	-13.00	46.59
800.00	H	36.09	-62.56	0.00	0.93	-63.49	-13.00	50.49

**LTE Band 5(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
1649.40	H	39.75	-64.65	10.45	1.28	-55.48	-13.00	42.48
1649.40	V	38.39	-65.95	10.45	1.28	-56.78	-13.00	43.78
2474.10	H	48.19	-54.66	12.16	1.23	-43.73	-13.00	30.73
2474.10	V	48.25	-55.95	12.16	1.23	-45.02	-13.00	32.02
3298.80	H	38.52	-62.76	12.28	1.57	-52.05	-13.00	39.05
3298.80	V	39.76	-60.58	12.28	1.57	-49.87	-13.00	36.87
960.00	H	36.33	-58.31	0.00	0.86	-59.17	-13.00	46.17
960.00	V	35.64	-60.59	0.00	0.86	-61.45	-13.00	48.45
QPSK, Frequency: 836.5 MHz								
1673.00	H	38.77	-65.61	10.52	1.27	-56.36	-13.00	43.36
1673.00	V	37.04	-67.27	10.52	1.27	-58.02	-13.00	45.02
2509.50	H	51.47	-51.30	12.20	1.24	-40.34	-13.00	27.34
2509.50	V	50.38	-53.78	12.20	1.24	-42.82	-13.00	29.82
3346.00	H	37.51	-63.68	12.26	1.58	-53.00	-13.00	40.00
3346.00	V	37.33	-62.79	12.26	1.58	-52.11	-13.00	39.11
960.00	H	36.49	-58.15	0.00	0.86	-59.01	-13.00	46.01
960.00	V	35.79	-60.44	0.00	0.86	-61.30	-13.00	48.30
QPSK, Frequency: 848.3 MHz								
1696.60	H	37.81	-66.55	10.59	1.26	-57.22	-13.00	44.22
1696.60	V	36.86	-67.43	10.59	1.26	-58.10	-13.00	45.10
2544.90	H	45.54	-57.16	12.22	1.26	-46.20	-13.00	33.20
2544.90	V	48.43	-55.56	12.22	1.26	-44.60	-13.00	31.60
3393.20	H	37.37	-63.73	12.24	1.59	-53.08	-13.00	40.08
3393.20	V	40.09	-59.81	12.24	1.59	-49.16	-13.00	36.16
960.00	H	36.52	-58.12	0.00	0.86	-58.98	-13.00	45.98
960.00	V	35.71	-60.52	0.00	0.86	-61.38	-13.00	48.38

**LTE Band 7(30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2502.5 MHz								
5005.00	H	36.00	-60.42	13.00	1.44	-48.86	-25.00	23.86
5005.00	V	36.04	-60.05	13.00	1.44	-48.49	-25.00	23.49
7507.50	H	51.53	-40.01	12.80	1.33	-28.54	-25.00	3.54
7507.50	V	51.02	-41.22	12.80	1.33	-29.75	-25.00	4.75
960.00	H	36.53	-58.11	0.00	0.86	-58.97	-25.00	33.97
800.00	V	36.72	-65.69	0.00	0.93	-66.62	-25.00	41.62
QPSK, Frequency: 2535 MHz								
5070.00	H	35.70	-60.61	12.97	1.41	-49.05	-25.00	24.05
5070.00	V	36.12	-59.96	12.97	1.41	-48.40	-25.00	23.40
7605.00	H	45.00	-46.38	12.84	1.40	-34.94	-25.00	9.94
7605.00	V	44.76	-47.29	12.84	1.40	-35.85	-25.00	10.85
960.00	H	36.41	-58.23	0.00	0.86	-59.09	-25.00	34.09
801.40	V	36.03	-66.33	0.00	0.93	-67.26	-25.00	42.26
QPSK, Frequency: 2567.5 MHz								
5135.00	H	35.53	-60.66	12.95	1.39	-49.10	-25.00	24.10
5135.00	V	37.07	-59.00	12.95	1.39	-47.44	-25.00	22.44
7702.50	H	39.72	-51.51	12.88	1.47	-40.10	-25.00	15.10
7702.50	V	38.37	-53.50	12.88	1.47	-42.09	-25.00	17.09
960.00	H	36.49	-58.15	0.00	0.86	-59.01	-25.00	34.01
800.00	V	36.61	-65.80	0.00	0.93	-66.73	-25.00	41.73

**LTE Band 12(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 699.7 MHz								
1399.40	H	45.84	-57.93	9.58	1.23	-49.58	-13.00	36.58
1399.40	V	44.01	-59.85	9.58	1.23	-51.50	-13.00	38.50
2099.10	H	40.52	-63.27	11.64	1.15	-52.78	-13.00	39.78
2099.10	V	39.87	-64.16	11.64	1.15	-53.67	-13.00	40.67
2798.80	H	38.19	-64.03	12.32	1.40	-53.11	-13.00	40.11
2798.80	V	38.06	-64.67	12.32	1.40	-53.75	-13.00	40.75
960.00	H	36.19	-58.45	0.00	0.86	-59.31	-13.00	46.31
960.00	V	37.08	-59.15	0.00	0.86	-60.01	-13.00	47.01
QPSK, Frequency: 707.5 MHz								
1415.00	H	44.31	-59.58	9.64	1.25	-51.19	-13.00	38.19
1415.00	V	42.60	-61.35	9.64	1.25	-52.96	-13.00	39.96
2122.50	H	40.14	-63.59	11.67	1.16	-53.08	-13.00	40.08
2122.50	V	38.82	-65.22	11.67	1.16	-54.71	-13.00	41.71
2830.00	H	37.46	-64.70	12.33	1.41	-53.78	-13.00	40.78
2830.00	V	37.57	-65.00	12.33	1.41	-54.08	-13.00	41.08
960.00	H	35.99	-58.65	0.00	0.86	-59.51	-13.00	46.51
960.00	V	37.18	-59.05	0.00	0.86	-59.91	-13.00	46.91
QPSK, Frequency: 715.3 MHz								
1430.60	H	44.46	-59.55	9.71	1.27	-51.11	-13.00	38.11
1430.60	V	42.76	-61.29	9.71	1.27	-52.85	-13.00	39.85
2145.90	H	40.01	-63.67	11.70	1.16	-53.13	-13.00	40.13
2145.90	V	38.81	-65.24	11.70	1.16	-54.70	-13.00	41.70
2861.20	H	37.12	-64.98	12.34	1.43	-54.07	-13.00	41.07
2861.20	V	37.06	-65.36	12.34	1.43	-54.45	-13.00	41.45
960.00	H	36.11	-58.53	0.00	0.86	-59.39	-13.00	46.39
960.00	V	37.15	-59.08	0.00	0.86	-59.94	-13.00	46.94

**LTE Band 13(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 779.5 MHz								
1559.00	H	37.31	-67.19	10.18	1.32	-58.33	-40.00	18.33
1559.00	V	38.48	-65.95	10.18	1.32	-57.09	-40.00	17.09
2338.50	H	36.65	-66.54	11.97	1.20	-55.77	-13.00	42.77
2338.50	V	38.83	-65.31	11.97	1.20	-54.54	-13.00	41.54
3118.00	H	37.13	-64.49	12.35	1.53	-53.67	-13.00	40.67
3118.00	V	37.22	-63.96	12.35	1.53	-53.14	-13.00	40.14
960.00	H	37.25	-57.39	0.00	0.86	-58.25	-13.00	45.25
960.00	V	35.94	-60.29	0.00	0.86	-61.15	-13.00	48.15
QPSK, Frequency:784.5 MHz								
1569.00	H	37.20	-67.29	10.21	1.32	-58.40	-40.00	18.4
1569.00	V	38.94	-65.48	10.21	1.32	-56.59	-40.00	16.59
2353.50	H	38.24	-64.92	11.99	1.21	-54.14	-13.00	41.14
2353.50	V	35.53	-68.61	11.99	1.21	-57.83	-13.00	44.83
3138.00	H	37.46	-64.12	12.34	1.53	-53.31	-13.00	40.31
3138.00	V	37.52	-63.57	12.34	1.53	-52.76	-13.00	39.76
960.00	H	37.17	-57.47	0.00	0.86	-58.33	-13.00	45.33
960.00	V	36.10	-60.13	0.00	0.86	-60.99	-13.00	47.99



**LTE Band 26(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 814.7 MHz								
1629.40	H	39.04	-65.39	10.39	1.29	-56.29	-13.00	43.29
1629.40	V	38.52	-65.84	10.39	1.29	-56.74	-13.00	43.74
2444.10	H	40.75	-62.18	12.12	1.23	-51.29	-13.00	38.29
2444.10	V	44.32	-59.86	12.12	1.23	-48.97	-13.00	35.97
3258.80	H	38.51	-62.84	12.30	1.56	-52.10	-13.00	39.10
3258.80	V	40.55	-59.97	12.30	1.56	-49.23	-13.00	36.23
960.00	H	36.61	-58.03	0.00	0.86	-58.89	-13.00	45.89
960.00	V	35.72	-60.51	0.00	0.86	-61.37	-13.00	48.37
QPSK, Frequency: 831.5 MHz								
1663.00	H	38.47	-65.92	10.49	1.28	-56.71	-13.00	43.71
1663.00	V	37.79	-66.53	10.49	1.28	-57.32	-13.00	44.32
2494.50	H	41.63	-61.17	12.19	1.24	-50.22	-13.00	37.22
2494.50	V	42.13	-62.08	12.19	1.24	-51.13	-13.00	38.13
3326.00	H	36.63	-64.60	12.27	1.57	-53.90	-13.00	40.90
3326.00	V	36.45	-63.76	12.27	1.57	-53.06	-13.00	40.06
960.00	H	36.49	-58.15	0.00	0.86	-59.01	-13.00	46.01
960.00	V	35.65	-60.58	0.00	0.86	-61.44	-13.00	48.44
QPSK, Frequency: 848.3 MHz								
1696.60	H	38.71	-65.65	10.59	1.26	-56.32	-13.00	43.32
1696.60	V	37.68	-66.61	10.59	1.26	-57.28	-13.00	44.28
2544.90	H	44.81	-57.89	12.22	1.26	-46.93	-13.00	33.93
2544.90	V	50.16	-53.83	12.22	1.26	-42.87	-13.00	29.87
3393.20	H	36.98	-64.12	12.24	1.59	-53.47	-13.00	40.47
3393.20	V	39.99	-59.91	12.24	1.59	-49.26	-13.00	36.26
960.00	H	36.55	-58.09	0.00	0.86	-58.95	-13.00	45.95
960.00	V	35.81	-60.42	0.00	0.86	-61.28	-13.00	48.28

**LTE Band 38(30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2572.5 MHz								
5145.00	H	36.81	-59.36	12.94	1.38	-47.80	-25.00	22.80
5145.00	V	37.03	-59.03	12.94	1.38	-47.47	-25.00	22.47
7717.50	H	40.09	-51.12	12.89	1.48	-39.71	-25.00	14.71
7717.50	V	43.57	-48.28	12.89	1.48	-36.87	-25.00	11.87
683.50	H	38.12	-63.43	0.00	0.91	-64.34	-25.00	39.34
960.00	V	36.74	-59.49	0.00	0.86	-60.35	-25.00	35.35
QPSK, Frequency: 2595 MHz								
5190.00	H	37.23	-58.87	12.92	1.36	-47.31	-25.00	22.31
5190.00	V	36.41	-59.65	12.92	1.36	-48.09	-25.00	23.09
7785.00	H	39.12	-51.98	12.91	1.53	-40.60	-25.00	15.60
7785.00	V	42.27	-49.45	12.91	1.53	-38.07	-25.00	13.07
683.50	H	38.05	-63.50	0.00	0.91	-64.41	-25.00	39.41
960.00	V	36.81	-59.42	0.00	0.86	-60.28	-25.00	35.28
QPSK, Frequency: 2617.5 MHz								
5235.00	H	37.89	-58.13	12.91	1.35	-46.57	-25.00	21.57
5235.00	V	35.69	-60.36	12.91	1.35	-48.80	-25.00	23.80
7852.50	H	38.19	-52.80	12.94	1.58	-41.44	-25.00	16.44
7852.50	V	36.87	-54.72	12.94	1.58	-43.36	-25.00	18.36
683.50	H	38.15	-63.40	0.00	0.91	-64.31	-25.00	39.31
960.00	V	36.63	-59.60	0.00	0.86	-60.46	-25.00	35.46

**LTE Band 40 Lower(30MHz-25GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2307.5 MHz								
4615.00	H	37.69	-60.00	13.31	1.52	-48.21	-40.00	8.21
4615.00	V	37.12	-60.77	13.31	1.52	-48.98	-40.00	8.98
6922.50	H	38.01	-53.98	13.51	1.81	-42.28	-40.00	2.28
6922.50	V	37.35	-54.81	13.51	1.81	-43.11	-40.00	3.11
960.00	H	37.66	-56.98	0.00	0.86	-57.84	-40.00	17.84
981.00	V	36.65	-58.56	0.00	0.80	-59.36	-40.00	19.36
QPSK, Frequency:2312.5 MHz								
4625.00	H	37.29	-60.37	13.30	1.52	-48.59	-40.00	8.59
4625.00	V	36.97	-60.88	13.30	1.52	-49.10	-40.00	9.10
6937.50	H	37.64	-54.31	13.49	1.81	-42.63	-40.00	2.63
6937.50	V	37.02	-55.10	13.49	1.81	-43.42	-40.00	3.42
960.00	H	36.10	-58.54	0.00	0.86	-59.40	-40.00	19.40
816.80	V	36.49	-65.37	0.00	0.95	-66.32	-40.00	26.32

**LTE Band 40 Upper(30MHz-25GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency:2352.5 MHz								
4705.00	H	37.40	-60.00	13.24	1.50	-48.26	-40.00	8.26
4705.00	V	37.01	-60.46	13.24	1.50	-48.72	-40.00	8.72
7057.50	H	37.55	-54.19	13.33	1.77	-42.63	-40.00	2.63
7057.50	V	37.08	-54.92	13.33	1.77	-43.36	-40.00	3.36
960.00	H	36.59	-58.05	0.00	0.86	-58.91	-40.00	18.91
816.80	V	36.71	-65.15	0.00	0.95	-66.10	-40.00	26.10
QPSK, Frequency: 2357.5 MHz								
4715.00	H	37.49	-59.87	13.23	1.50	-48.14	-40.00	8.14
4715.00	V	36.86	-60.56	13.23	1.50	-48.83	-40.00	8.83
7072.50	H	37.55	-54.19	13.31	1.76	-42.64	-40.00	2.64
7072.50	V	36.43	-55.58	13.31	1.76	-44.03	-40.00	4.03
960.00	H	36.01	-58.63	0.00	0.86	-59.49	-40.00	19.49
815.40	V	35.93	-65.98	0.00	0.95	-66.93	-40.00	26.93

**LTE Band 41(30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2498.5 MHz								
4997.00	H	39.82	-56.62	13.00	1.44	-45.06	-25.00	20.06
4997.00	V	38.97	-57.13	13.00	1.44	-45.57	-25.00	20.57
7495.50	H	46.33	-45.22	12.81	1.32	-33.73	-25.00	8.73
7495.50	V	44.56	-47.69	12.81	1.32	-36.20	-25.00	11.20
960.00	H	36.49	-58.15	0.00	0.86	-59.01	-25.00	34.01
960.00	V	35.32	-60.91	0.00	0.86	-61.77	-25.00	36.77
QPSK, Frequency:2593 MHz								
5186.00	H	38.61	-57.49	12.93	1.37	-45.93	-25.00	20.93
5186.00	V	38.92	-57.14	12.93	1.37	-45.58	-25.00	20.58
7779.00	H	39.97	-51.14	12.91	1.53	-39.76	-25.00	14.76
7779.00	V	40.06	-51.67	12.91	1.53	-40.29	-25.00	15.29
960.00	H	36.33	-58.31	0.00	0.86	-59.17	-25.00	34.17
946.00	V	35.98	-60.93	0.00	0.91	-61.84	-25.00	36.84
QPSK, Frequency: 2687.5 MHz								
5375.00	H	41.05	-54.72	12.85	1.29	-43.16	-25.00	18.16
5375.00	V	39.77	-56.25	12.85	1.29	-44.69	-25.00	19.69
8062.50	H	39.61	-51.05	12.96	1.72	-39.81	-25.00	14.81
8062.50	V	39.28	-51.95	12.96	1.72	-40.71	-25.00	15.71
960.00	H	35.88	-58.76	0.00	0.86	-59.62	-25.00	34.62
946.00	V	35.46	-61.45	0.00	0.91	-62.36	-25.00	37.36

**LTE Band 66(30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	41.25	-59.80	12.23	1.59	-49.16	-13.00	36.16
3421.40	V	41.41	-58.36	12.23	1.59	-47.72	-13.00	34.72
5132.10	H	40.89	-55.31	12.95	1.39	-43.75	-13.00	30.75
5132.10	V	41.01	-55.06	12.95	1.39	-43.50	-13.00	30.50
6842.80	H	42.31	-49.91	13.62	1.79	-38.08	-13.00	25.08
6842.80	V	43.45	-48.90	13.62	1.79	-37.07	-13.00	24.07
960.00	H	37.33	-57.31	0.00	0.86	-58.17	-13.00	45.17
960.00	V	36.98	-59.25	0.00	0.86	-60.11	-13.00	47.11
QPSK, Frequency: 1745 MHz								
3490.00	H	42.24	-58.68	12.20	1.61	-48.09	-13.00	35.09
3490.00	V	40.06	-59.39	12.20	1.61	-48.80	-13.00	35.80
5235.00	H	43.90	-52.12	12.91	1.35	-40.56	-13.00	27.56
5235.00	V	46.23	-49.82	12.91	1.35	-38.26	-13.00	25.26
960.00	H	36.82	-57.82	0.00	0.86	-58.68	-13.00	45.68
960.00	V	37.77	-58.46	0.00	0.86	-59.32	-13.00	46.32
QPSK, Frequency: 1779.3 MHz								
3558.60	H	41.40	-59.34	12.21	1.59	-48.72	-13.00	35.72
3558.60	V	41.59	-57.92	12.21	1.59	-47.30	-13.00	34.30
5337.90	H	39.52	-56.32	12.86	1.30	-44.76	-13.00	31.76
5337.90	V	40.01	-56.02	12.86	1.30	-44.46	-13.00	31.46
7117.20	H	42.63	-49.09	13.26	1.71	-37.54	-13.00	24.54
7117.20	V	43.21	-48.83	13.26	1.71	-37.28	-13.00	24.28
960.00	H	36.76	-57.88	0.00	0.86	-58.74	-13.00	45.74
960.00	V	35.66	-60.57	0.00	0.86	-61.43	-13.00	48.43

## Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

**FCC §22.917(a) & §24.238(a) & §27.53 & §90.691 - BAND EDGES**

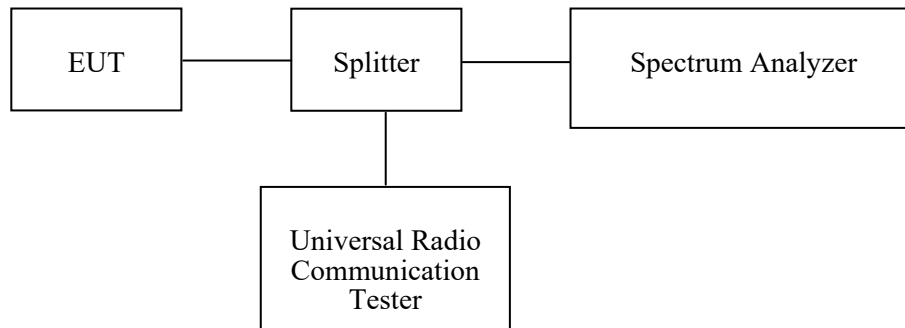
**Applicable Standard**

FCC § 2.1053, §22.917, § 24.238 and § 27.53, § 90.691;

**Test Procedure**

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.



**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2020-07-07	2021-07-07
R&S	Spectrum Analyzer	FSV40	101474	2020-01-09	2021-01-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Two-way Splitter	ODP-1-6-2S	OE0120142	Each Time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data**

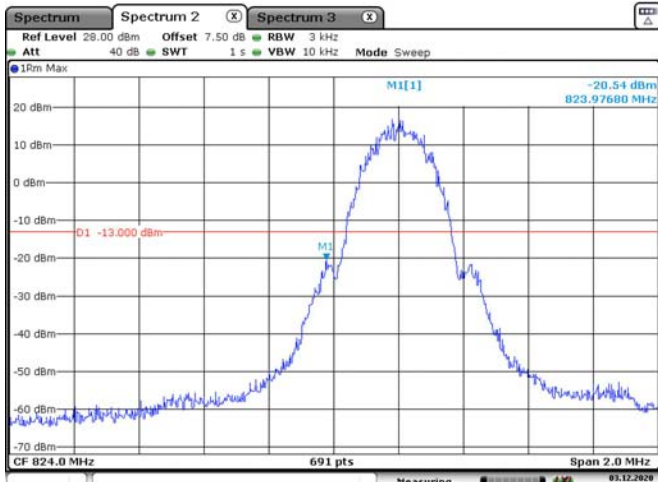
**Environmental Conditions**

<b>Temperature:</b>	21~26.1 °C
<b>Relative Humidity:</b>	32~47%
<b>ATM Pressure:</b>	102.4~101kPa
<b>Tester:</b>	Theshy Xie
<b>Test Date:</b>	2020-12-03~2021-01-14

Test Mode: Transmitting

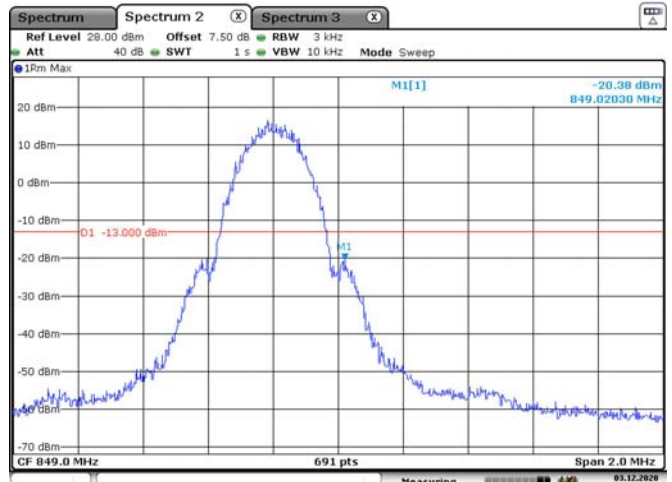
Test Result: Compliance. Please refer to the following plots.

**GPFS 850, Left Band Edge**



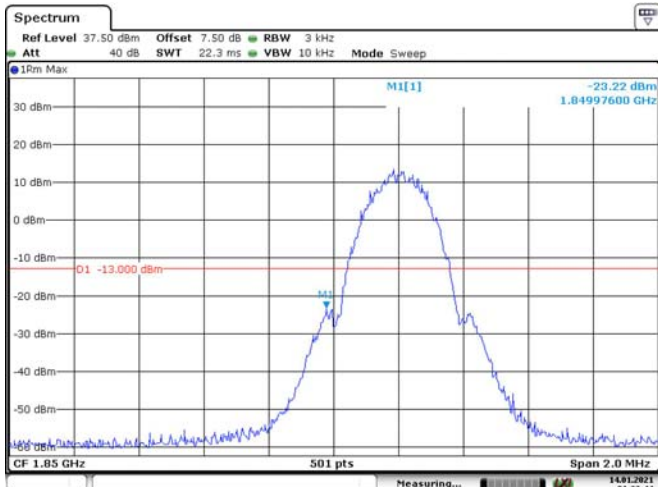
Date: 3, DEC, 2020 18:48:48

**GPFS 850, Right Band Edge**



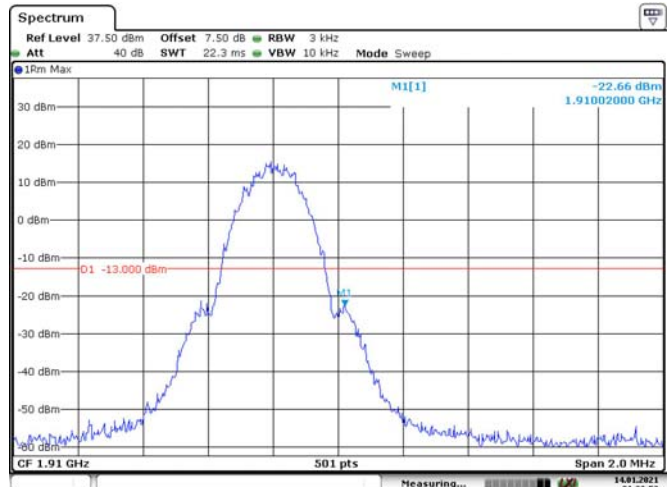
Date: 3, DEC, 2020 18:59:40

**GPFS 1900, Left Band Edge**



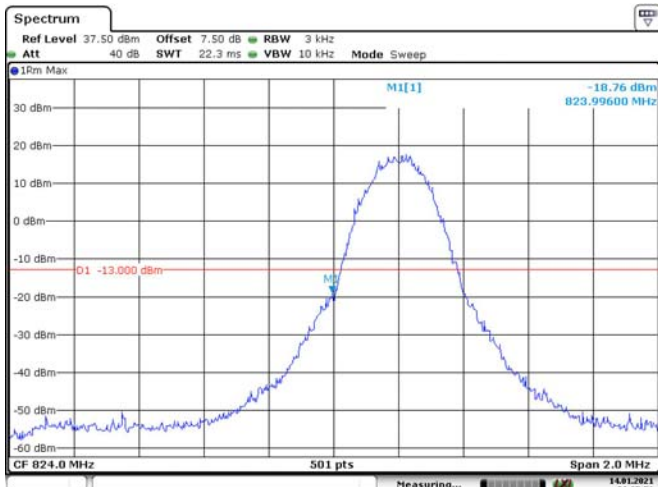
Date: 14, JAN, 2021 01:32:44

**GPFS 1900, Right Band Edge**



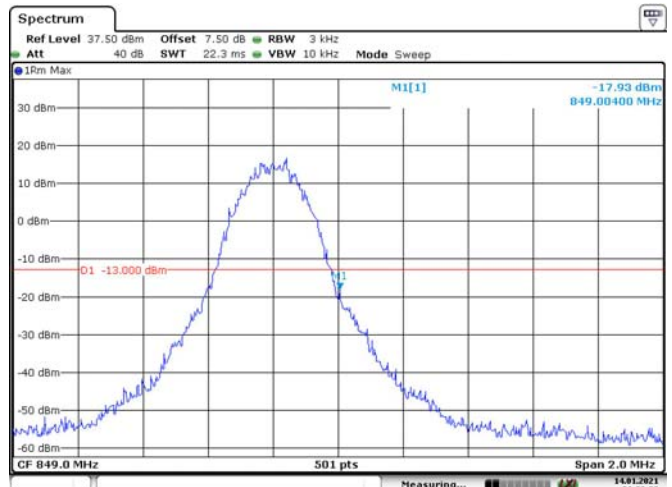
Date: 14, JAN, 2021 01:33:53

**EGPRS 850, Left Band Edge**



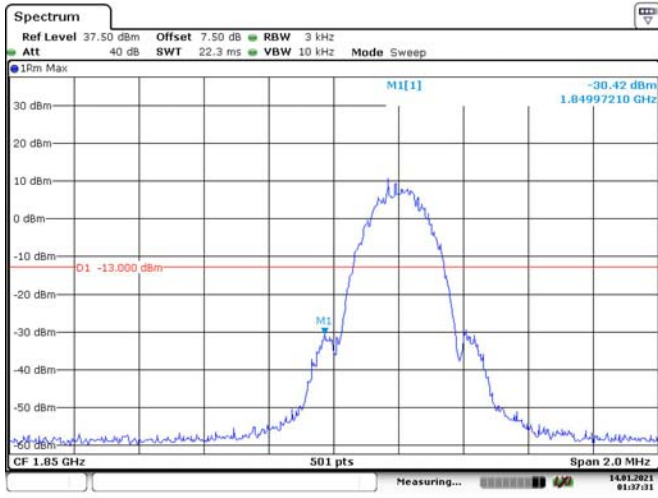
Date: 14, JAN, 2021 01:25:52

**EGPRS 850, Right Band Edge**



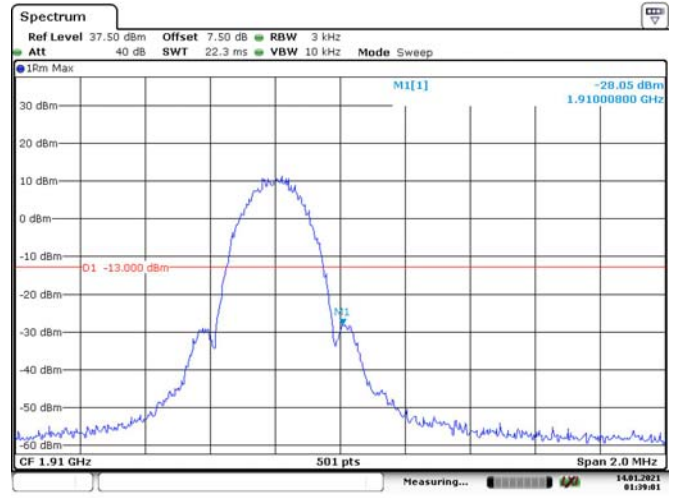
Date: 14, JAN, 2021 01:23:04

### EGPRS 1900, Left Band Edge



Date: 14.JAN.2021 01:37:32

### EGPRS 1900, Right Band Edge



Date: 14.JAN.2021 01:39:02