

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121019\
 Data File : VU036082.D
 Acq On : 10 Dec 2019 14:15
 Operator : JC/MD
 Sample : K6168-06DL 40X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 11 06:31:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 11 06:27:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	303334	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	339936	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	88720	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	135120	5.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.00%
7) Chloroethane-d5	1.93	69	127016	4.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.40%
11) 1,1-Dichloroethene-d2	2.59	63	156580	3.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.40%
20) 2-Butanone-d5	4.69	46	241252	52.37	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.74%
24) Chloroform-d	5.11	84	206050	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.80%
26) 1,2-Dichloroethane-d4	5.75	65	115792	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
32) Benzene-d6	5.77	84	422000	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.73	67	134751	5.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.80%
41) Toluene-d8	7.93	98	347541	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.21	79	49935	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.70	63	216934	55.44	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.88%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	118648	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	93612	5.48	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	7491	0.255	ug/L #	83
12) 1,1-Dichloroethene	2.61	96	12031	0.456	ug/L #	1
13) Acetone	2.66	43	25665	4.388	ug/L	99
16) Methylene chloride	3.09	84	7500	0.245	ug/L	97
19) 1,1-Dichloroethane	3.92	63	5004	0.124	ug/L	94
22) cis-1,2-Dichloroethene	4.72	96	20447	0.865	ug/L	89
25) Chloroform	5.13	83	14170	0.315	ug/L	90
29) 1,1,1-Trichloroethane	5.36	97	3458	0.090	ug/L	90
34) Trichloroethene	6.58	95	132644	5.377	ug/L	99
35) Methylcyclohexane	6.73	83	32984	0.997	ug/L #	18
37) 1,2-Dichloropropane	6.74	63	13600	0.584	ug/L #	86
39) cis-1,3-Dichloropropene	7.60	75	3067	0.097	ug/L #	38
47) Tetrachloroethene	8.58	164	812524	34.645	ug/L	97
48) 2-Hexanone	8.70	43	24162	2.767	ug/L #	69
49) Dibromochloromethane	8.58	129	705733	28.977	ug/L #	12
59) 1,2,3-Trichloropropane	11.84	75	10083	0.605	ug/L	96

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 11 06:27:41 2019
Response via : Initial Calibration

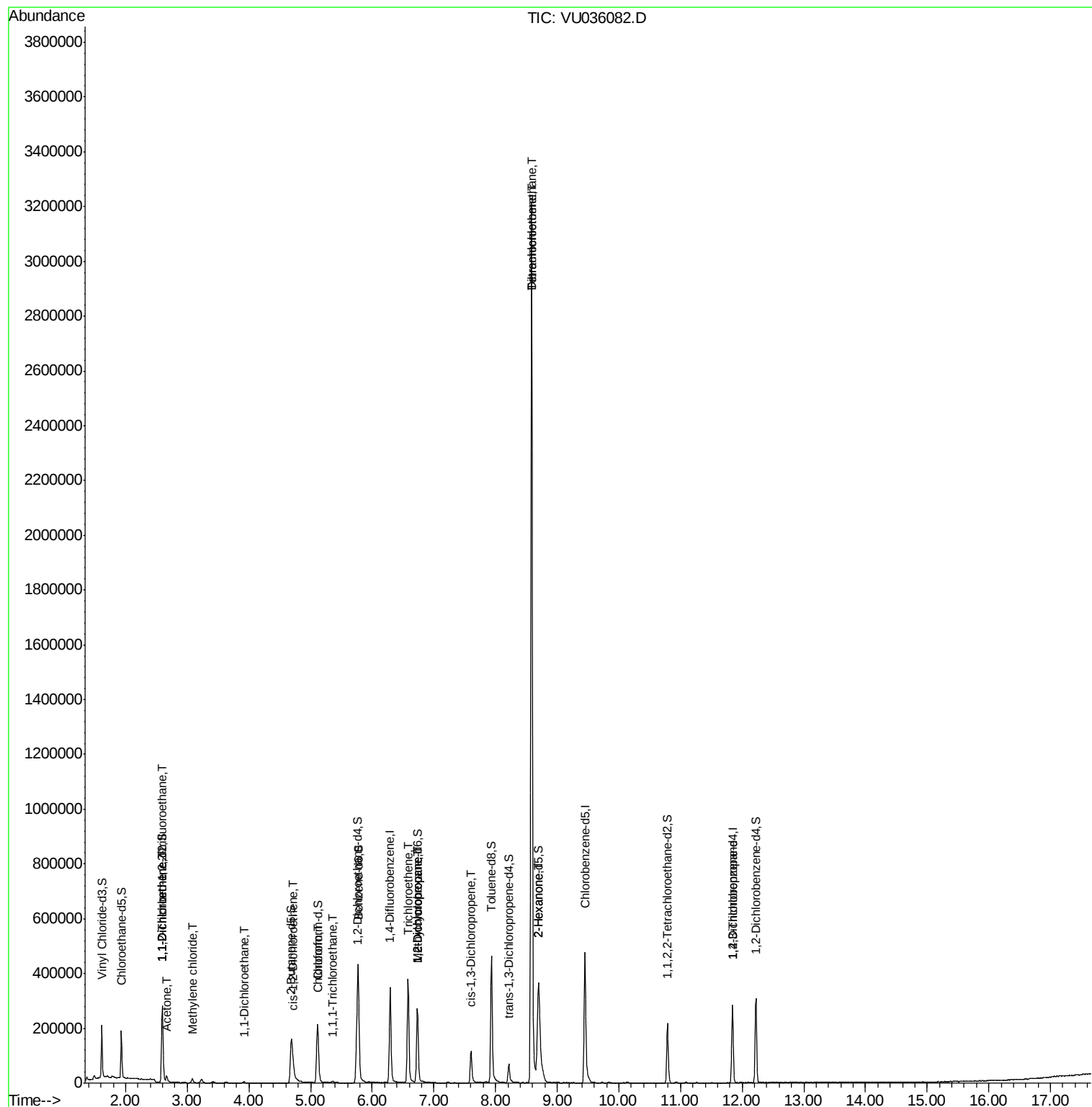
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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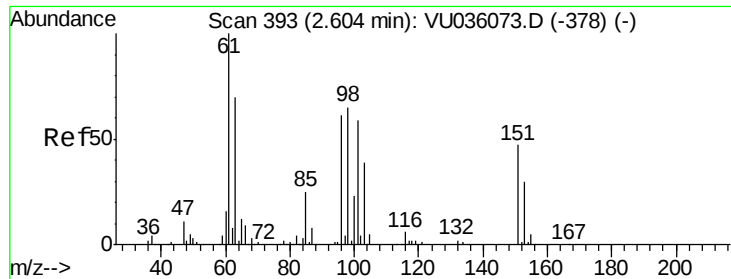
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.255 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

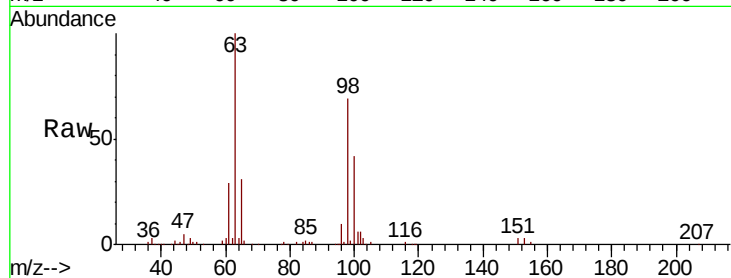
Tot Ion:101 Resp: 7491

Ion Ratio Lower Upper

101 100

85 32.9 33.1 49.7#

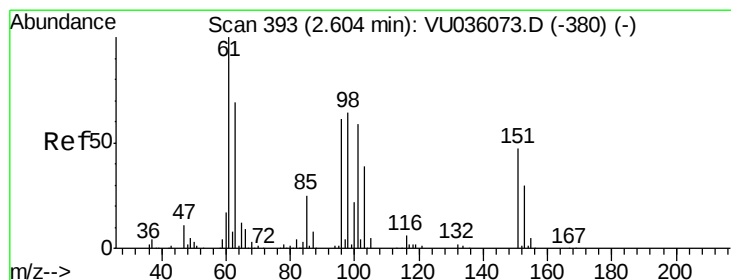
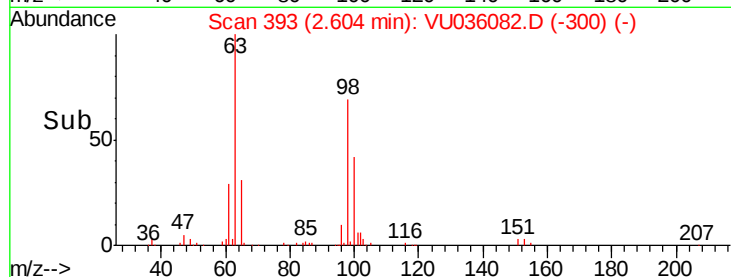
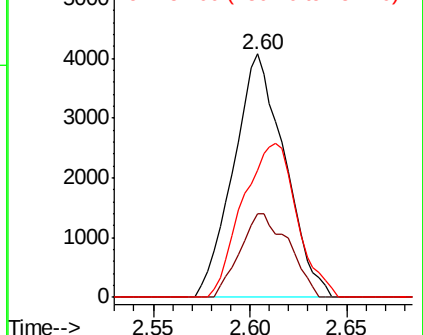
151 66.9 66.5 99.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.456 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

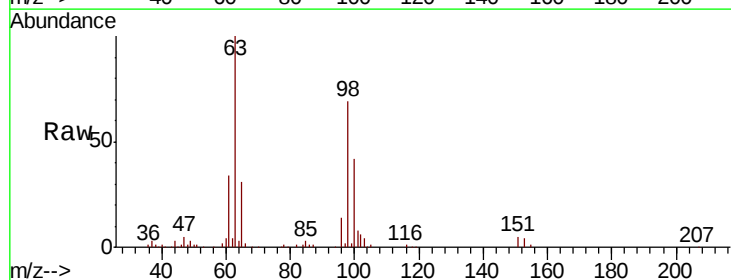
Tgt Ion: 96 Resp: 12031

Ion Ratio Lower Upper

96 100

61 250.1 104.3 193.7#

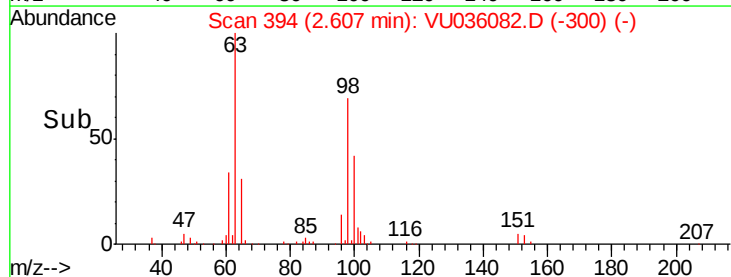
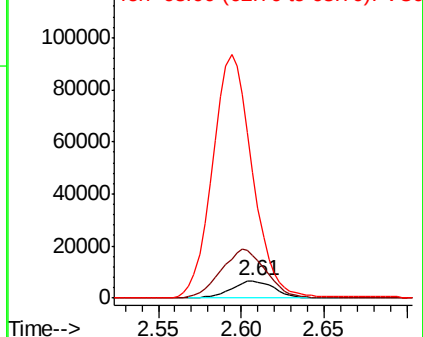
63 730.2 65.6 121.8#

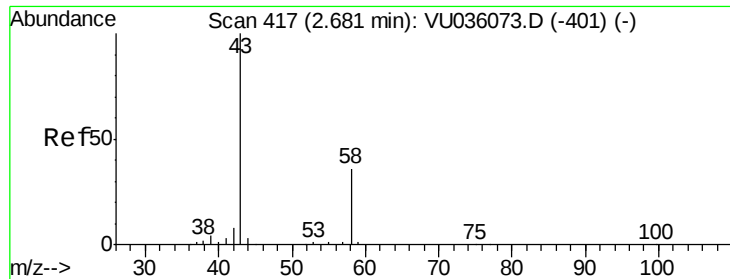


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.388 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.02 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

Instrument :

MSVOA_U

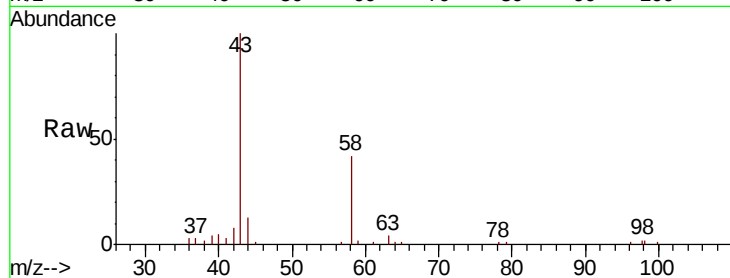
ClientSampleId :

Tot Ion: 43 Resp: 25665

Ion Ratio Lower Upper

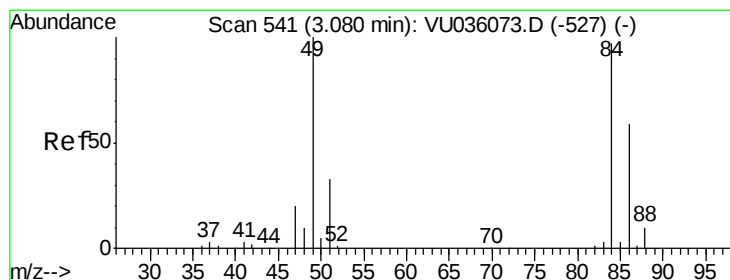
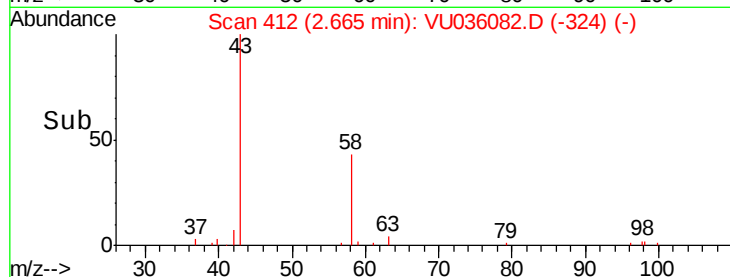
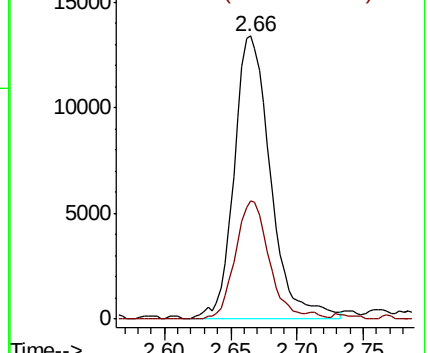
43 100

58 37.9 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#16

Methylene chloride

Concen: 0.245 ug/L

RT: 3.09 min Scan# 543

Delta R.T. 0.01 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

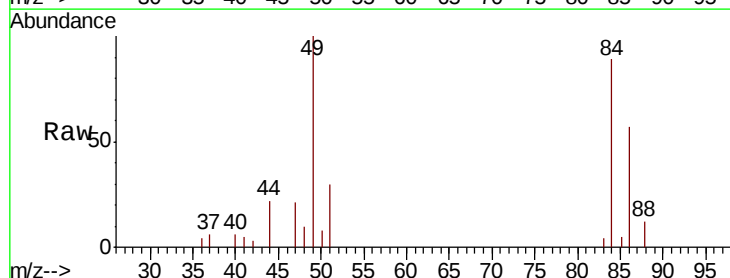
Tgt Ion: 84 Resp: 7500

Ion Ratio Lower Upper

84 100

86 63.7 47.5 88.3

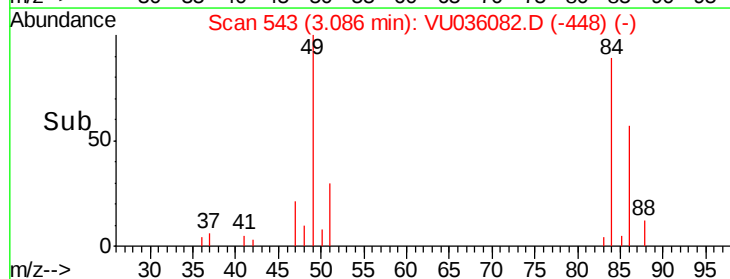
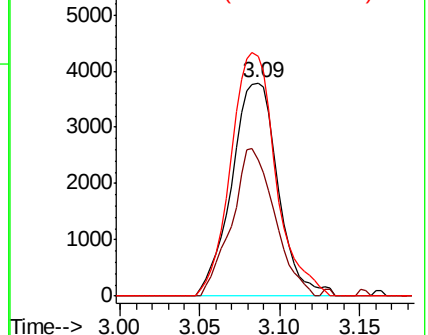
49 112.4 76.9 142.9

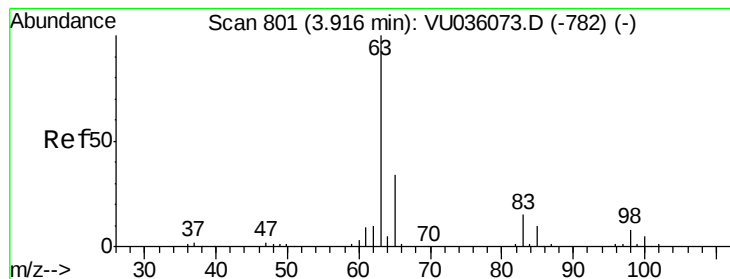


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0





#19

1,1-Dichloroethane

Concen: 0.124 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.01 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

Instrument :

MSVOA_U

ClientSampled :

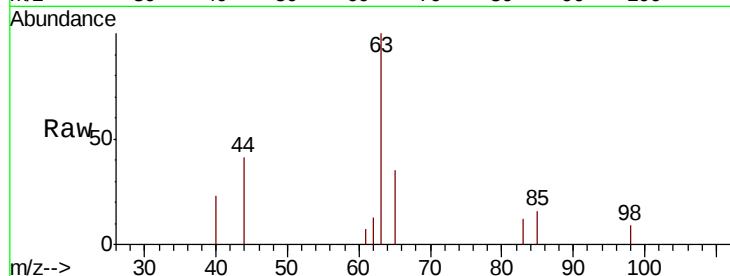
Tot Ion: 63 Resp: 5004

Ion Ratio Lower Upper

63 100

65 34.7 21.8 40.4

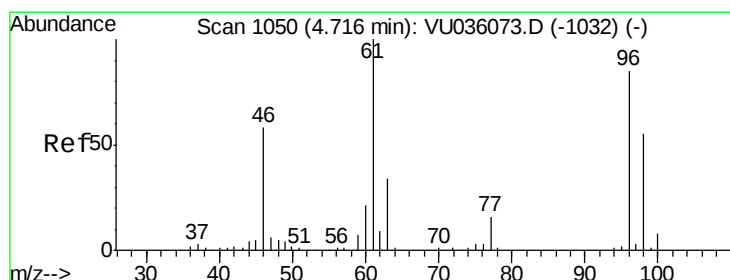
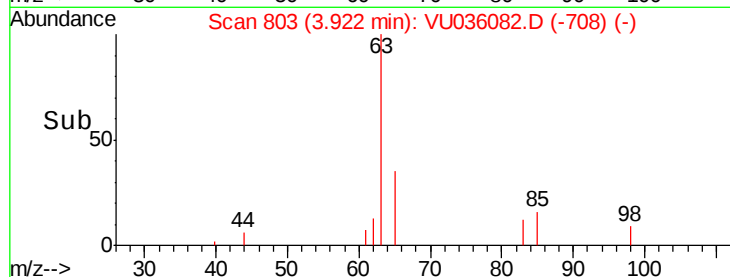
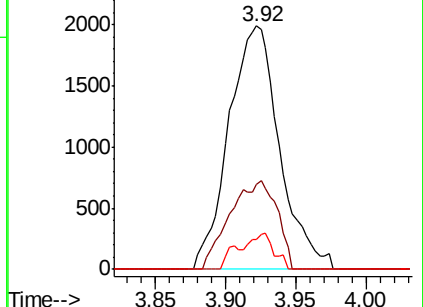
83 12.4 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU036073.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU036073.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU036073.D (-782) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.865 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

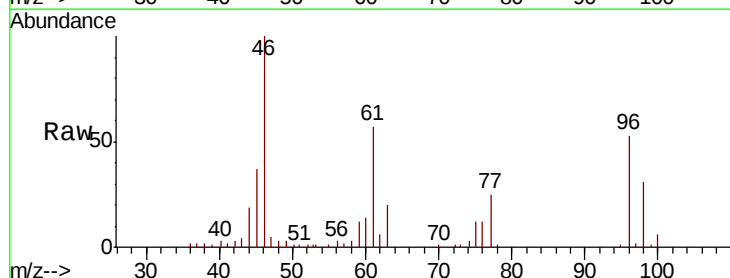
Tgt Ion: 96 Resp: 20447

Ion Ratio Lower Upper

96 100

61 106.6 83.0 154.2

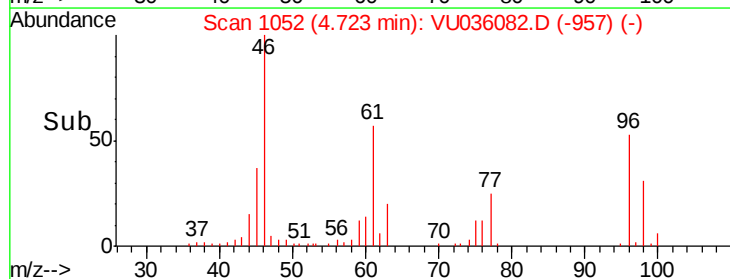
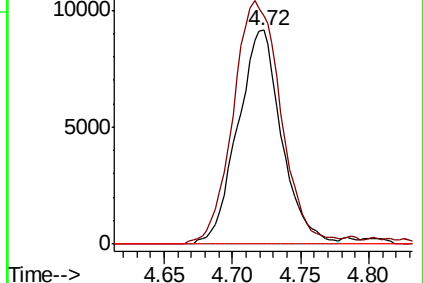
68 0.0 0.0 0.0

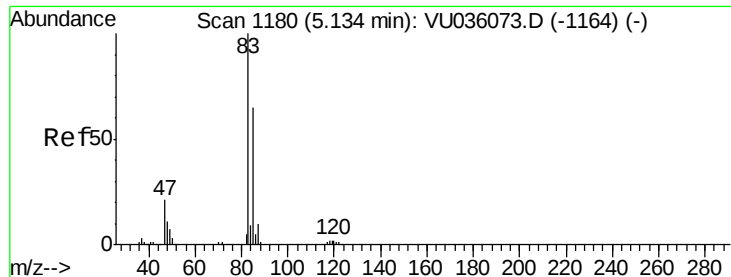


Abundance Ion 96.00 (95.70 to 96.70): VU036073.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU036073.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU036073.D (-1032) (-)





#25

Chloroform

Concen: 0.315 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

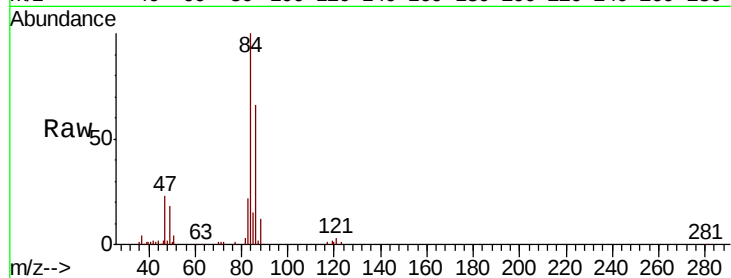
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 14170

Ion Ratio Lower Upper

83 100

85 70.5 43.9 81.5



Abundance Ion 83.05 (82.75 to 83.75): VU036073.D (-1164) (-)

Ion 85.00 (84.70 to 85.70): VU036073.D (-1164) (-)

5.13

6000

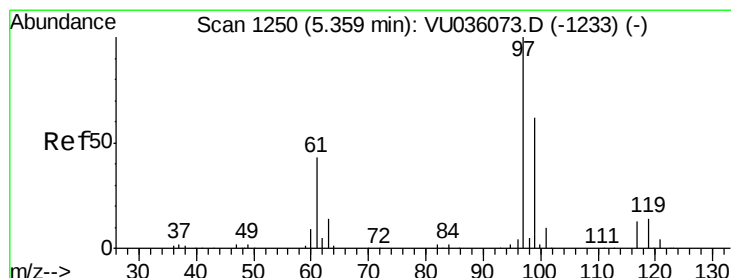
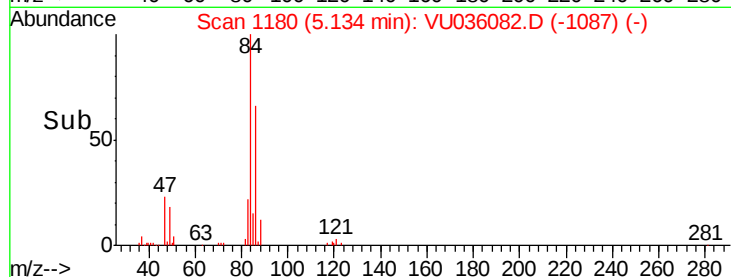
4000

2000

0

5.10 5.15 5.20

Time-->



#29

1,1,1-Trichloroethane

Concen: 0.090 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

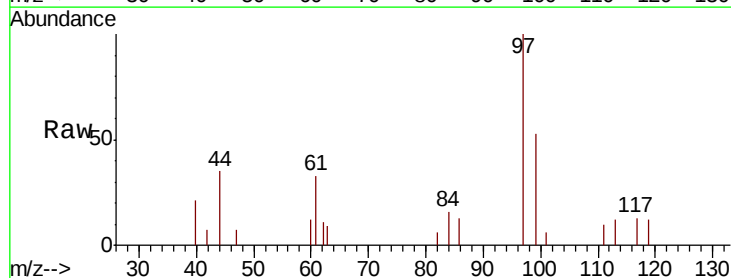
Tgt Ion: 97 Resp: 3458

Ion Ratio Lower Upper

97 100

99 54.7 52.2 78.2

61 40.5 34.7 52.1



Abundance Ion 96.95 (96.65 to 97.65): VU036073.D (-1233) (-)

Ion 99.05 (98.75 to 99.75): VU036073.D (-1233) (-)

Ion 61.05 (60.75 to 61.75): VU036073.D (-1233) (-)

5.36

2000

1500

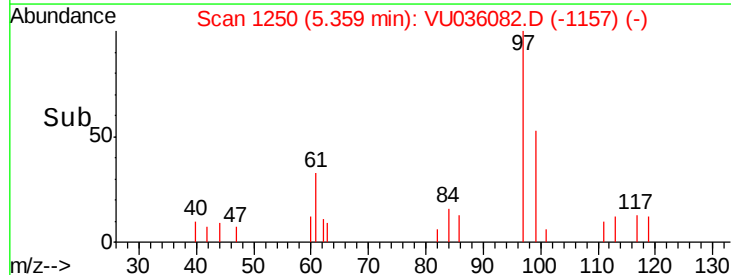
1000

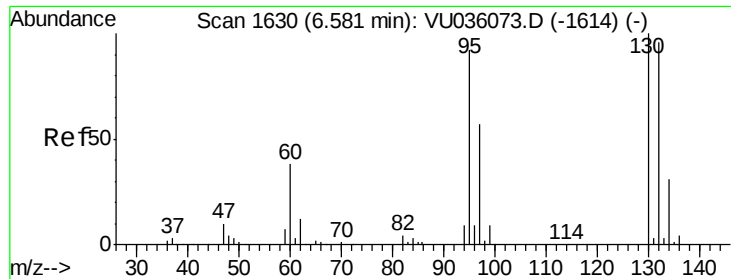
500

0

5.30 5.35 5.40

Time-->

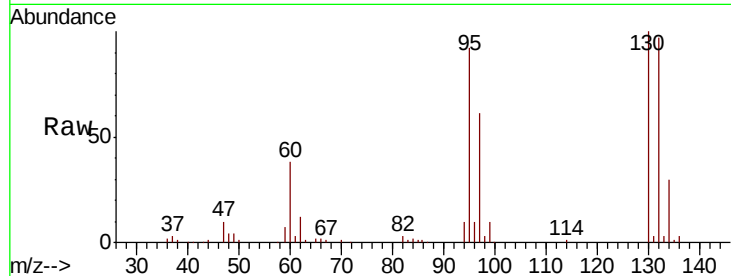




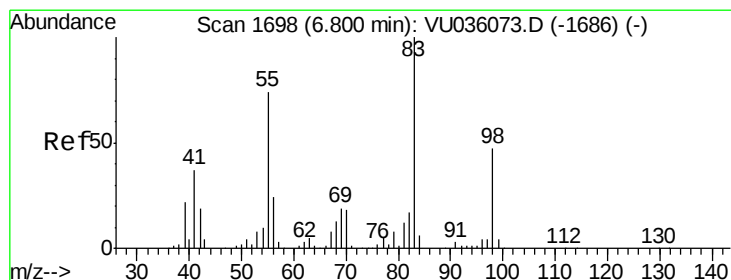
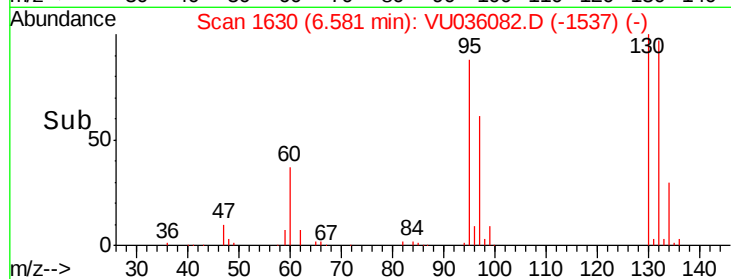
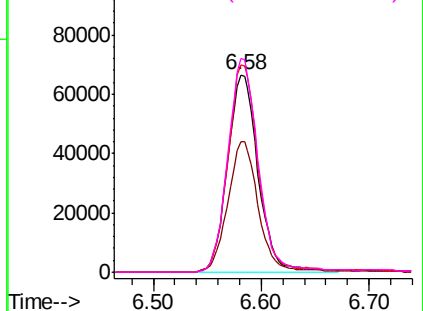
#34
 Trichloroethene
 Concen: 5.377 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036082.D
 Acq: 10 Dec 2019 14:15

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 132644
 Ion Ratio Lower Upper
 95 100
 97 66.2 44.4 82.4
 132 104.9 73.4 136.4
 130 108.2 75.9 141.1

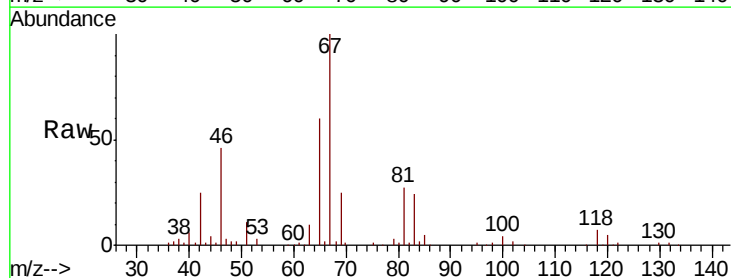


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

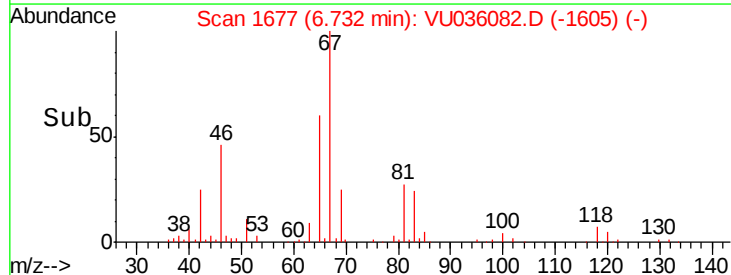
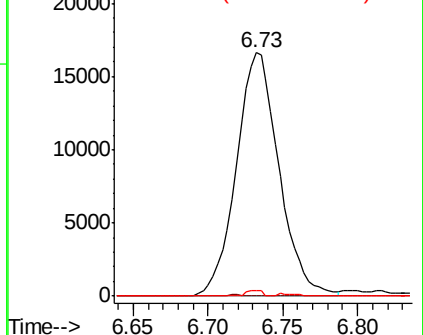


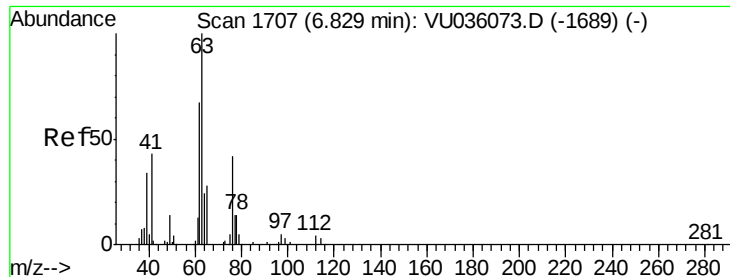
#35
 Methylcyclohexane
 Concen: 0.997 ug/L
 RT: 6.73 min Scan# 1677
 Delta R.T. -0.07 min
 Lab File: VU036082.D
 Acq: 10 Dec 2019 14:15

Tgt Ion: 83 Resp: 32984
 Ion Ratio Lower Upper
 83 100
 55 0.1 62.1 93.1#
 98 0.8 37.0 55.4#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.584 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.09 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

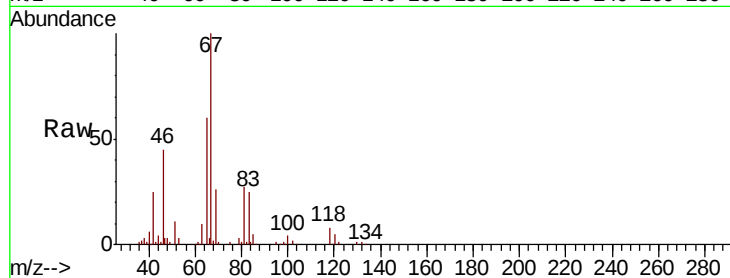
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 13600

Ion Ratio Lower Upper

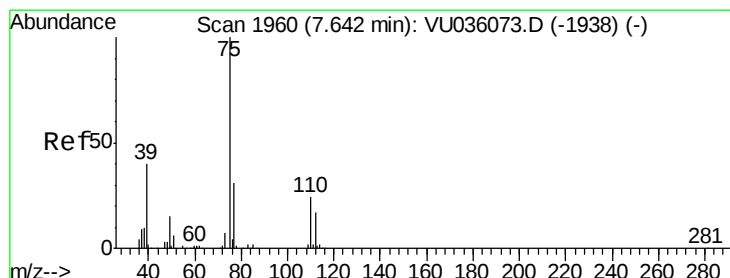
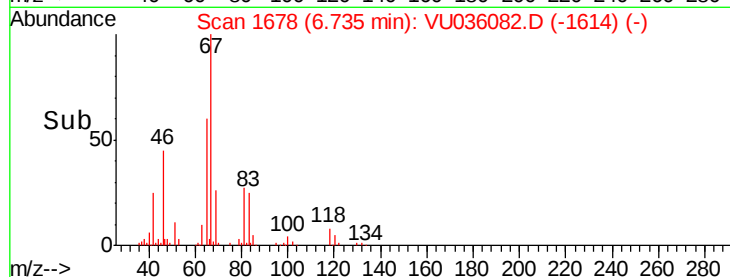
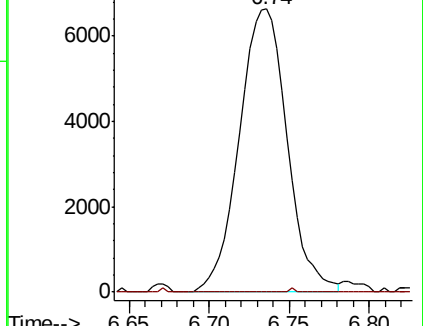
63 100

112 0.1 3.8 5.8#



Abundance Ion 63.10 (62.80 to 63.80): VU036073.D (-1689) (-)

Ion 112.10 (111.80 to 112.80): VU036073.D (-1689) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.097 ug/L

RT: 7.60 min Scan# 1947

Delta R.T. -0.04 min

Lab File: VU036082.D

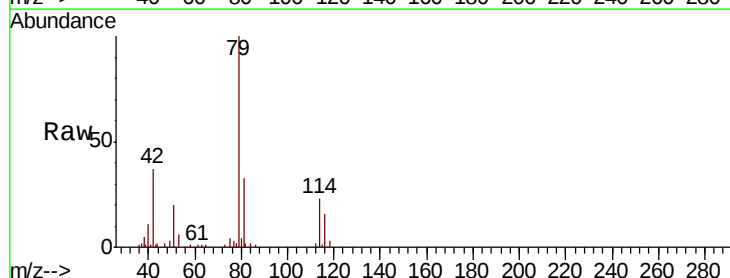
Acq: 10 Dec 2019 14:15

Tgt Ion: 75 Resp: 3067

Ion Ratio Lower Upper

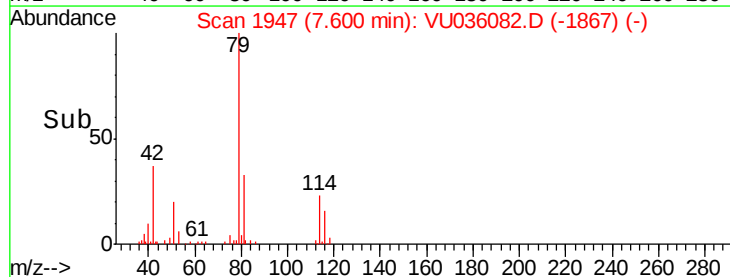
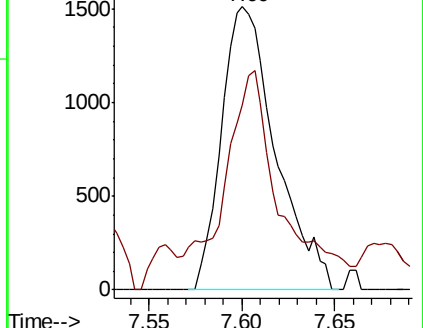
75 100

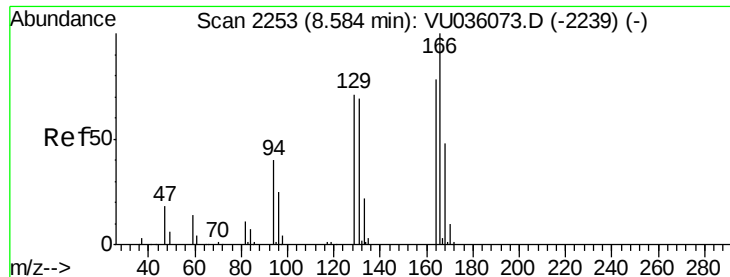
77 65.3 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU036073.D (-1938) (-)

Ion 77.05 (76.75 to 77.75): VU036073.D (-1938) (-)





#47

Tetrachloroethene

Concen: 34.645 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 812524

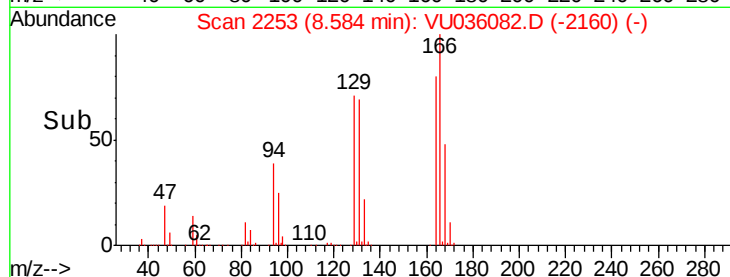
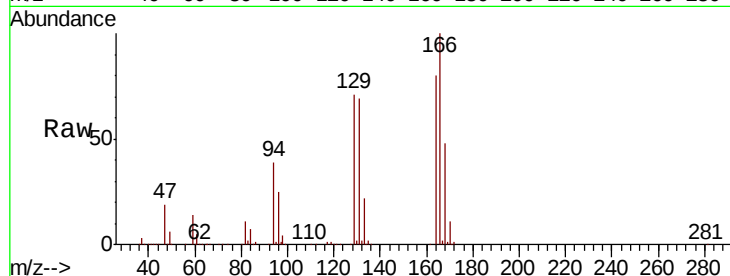
Ion Ratio Lower Upper

164 100

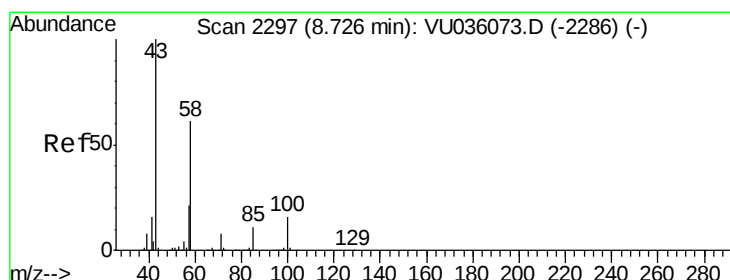
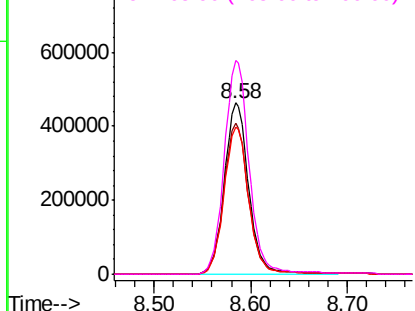
129 88.3 63.1 117.3

131 85.9 61.5 114.1

166 124.5 91.0 169.0



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.767 ug/L

RT: 8.70 min Scan# 2288

Delta R.T. -0.03 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

Tgt Ion: 43 Resp: 24162

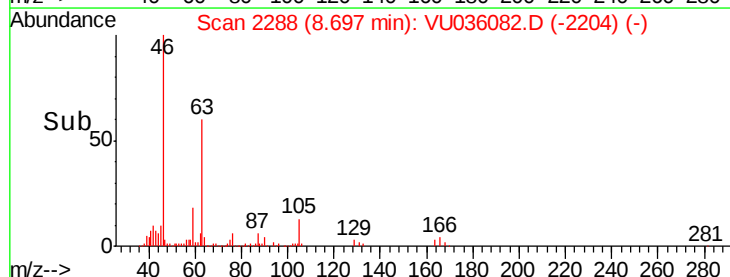
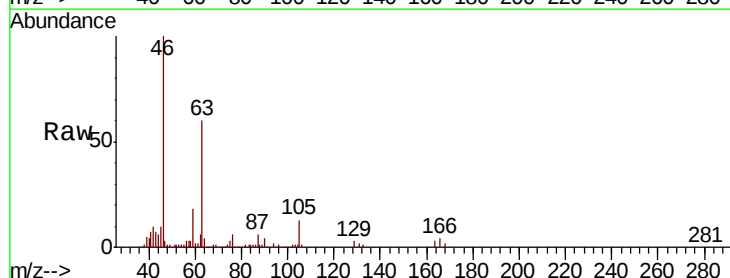
Ion Ratio Lower Upper

43 100

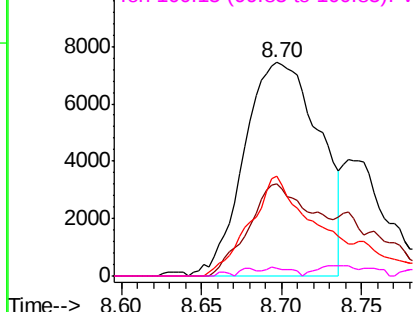
58 38.1 46.9 70.3#

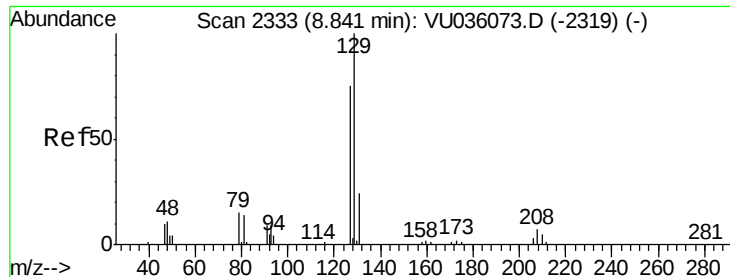
57 40.4 16.4 24.6#

100 1.3 11.0 16.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 28.977 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU036082.D

Acq: 10 Dec 2019 14:15

Instrument :

MSVOA_U

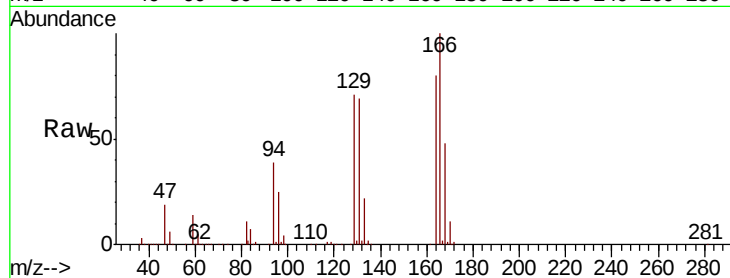
ClientSampled :

Tot Ion:129 Resp: 705733

Ion Ratio Lower Upper

129 100

127 0.1 52.5 97.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.58

400000

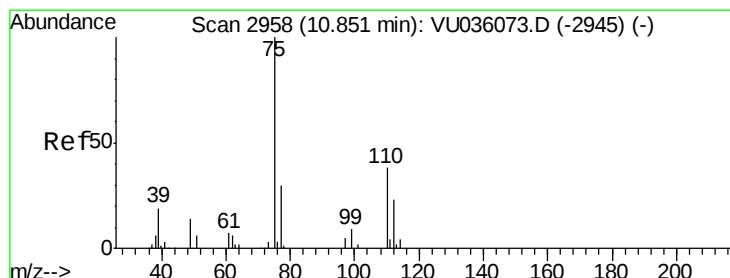
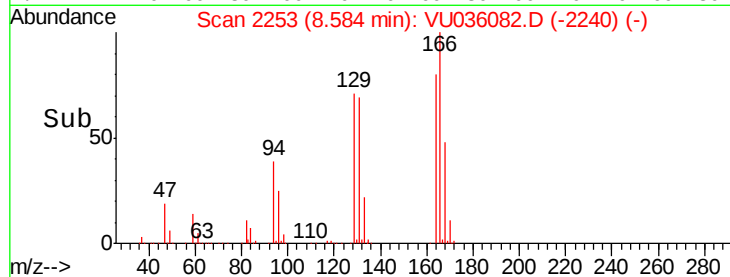
300000

200000

100000

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.605 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU036082.D

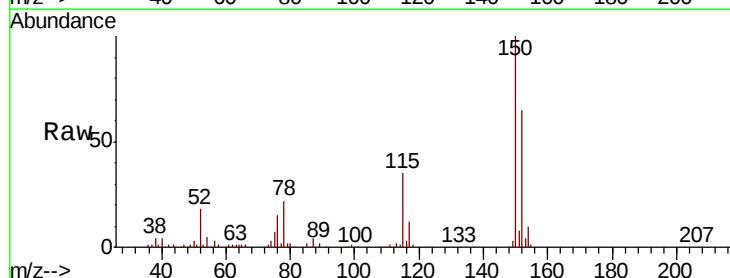
Acq: 10 Dec 2019 14:15

Tgt Ion: 75 Resp: 10083

Ion Ratio Lower Upper

75 100

77 35.7 26.7 40.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.84

6000

4000

2000

0

Time-->

