

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121019\
 Data File : VU036117.D
 Acq On : 11 Dec 2019 05:49
 Operator : JC/MD
 Sample : K6214-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 11 07:35:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 11 07:30:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	305203	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	337475	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	95252	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	124354	4.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.40%
7) Chloroethane-d5	1.93	69	121467	4.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.00%
11) 1,1-Dichloroethene-d2	2.59	63	141339	2.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.80%#
20) 2-Butanone-d5	4.69	46	265311	57.24	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.48%
24) Chloroform-d	5.11	84	183027	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.80%
26) 1,2-Dichloroethane-d4	5.75	65	106983	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
32) Benzene-d6	5.77	84	395829	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
36) 1,2-Dichloropropane-d6	6.73	67	127304	4.94	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.80%
41) Toluene-d8	7.93	98	328240	4.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.20%
43) trans-1,3-Dichloropropene-	8.21	79	44899	4.18	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.60%
46) 2-Hexanone-d5	8.68	63	249466	64.21	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	128.42%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	112988	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	86599	4.73	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.54	50	6893	0.235	ug/L	90
5) Vinyl chloride	1.62	62	224944	7.360	ug/L	99
8) Chloroethane	1.96	64	3868	0.166	ug/L #	79
12) 1,1-Dichloroethene	2.61	96	20410	0.769	ug/L #	1
13) Acetone	2.66	43	17279	2.936	ug/L	96
15) Methyl Acetate	2.80	43	20944	2.411	ug/L #	49
16) Methylene chloride	3.09	84	3220	0.104	ug/L	88
18) trans-1,2-Dichloroethene	3.39	96	33804	1.491	ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	10047283	422.381	ug/L #	98
25) Chloroform	5.14	83	20921	0.461	ug/L	92
34) Trichloroethene	6.58	95	2418986	98.778	ug/L	97
35) Methylcyclohexane	6.73	83	30703	0.934	ug/L #	18
37) 1,2-Dichloropropane	6.73	63	13324	0.576	ug/L #	88
39) cis-1,3-Dichloropropene	7.60	75	3033	0.096	ug/L #	63
45) 1,1,2-Trichloroethane	8.60	97	376440	20.666	ug/L #	1
48) 2-Hexanone	8.68	43	16846	1.943	ug/L #	60
59) 1,2,3-Trichloropropane	11.84	75	10213	0.618	ug/L #	71

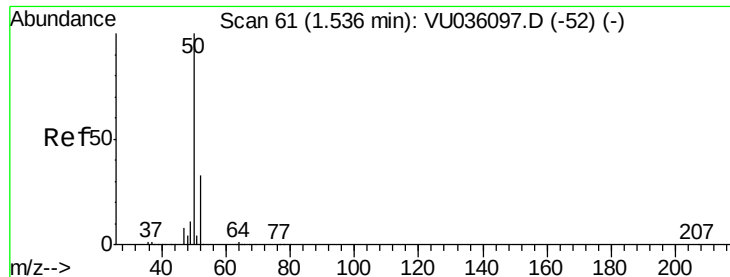
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121019\
Data File : VU036117.D
Acq On : 11 Dec 2019 05:49
Operator : JC/MD
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 11 07:30:58 2019
Response via : Initial Calibration

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



#3

Chloromethane

Concen: 0.235 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

Instrument :

MSVOA_U

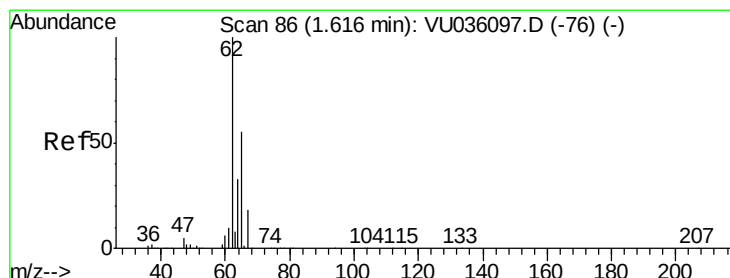
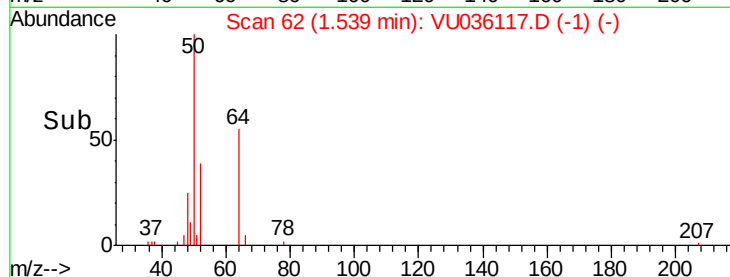
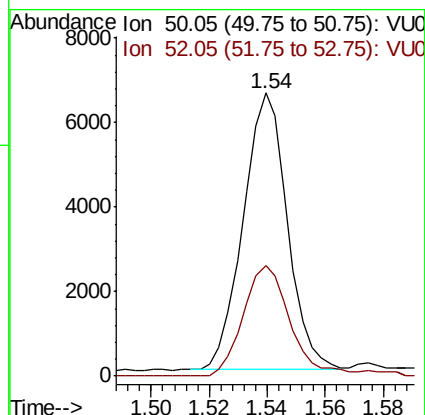
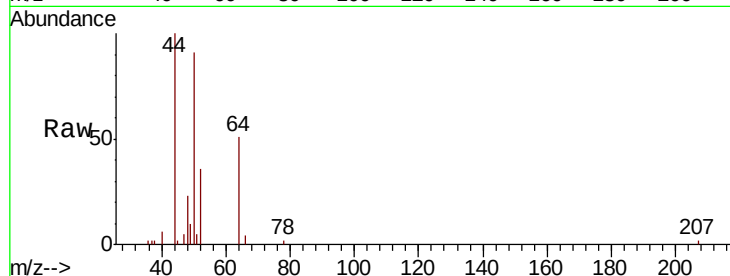
ClientSampleId :

Tot Ion: 50 Resp: 6893

Ion Ratio Lower Upper

50 100

52 39.2 23.6 43.8



#5

Vinyl chloride

Concen: 7.360 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036117.D

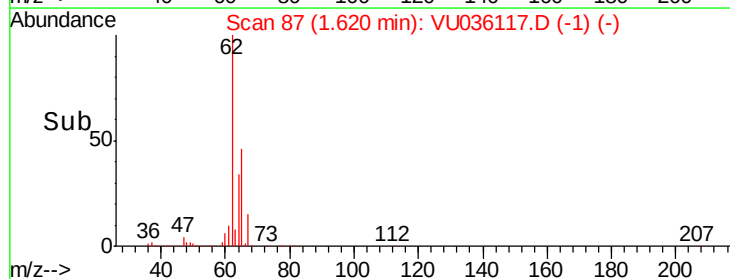
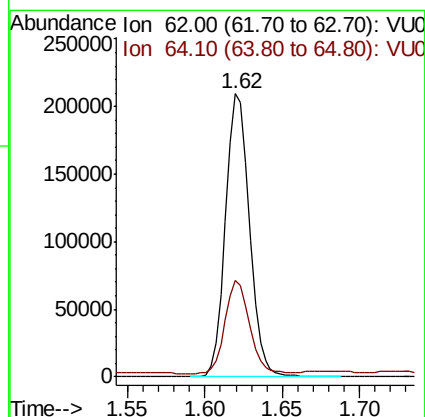
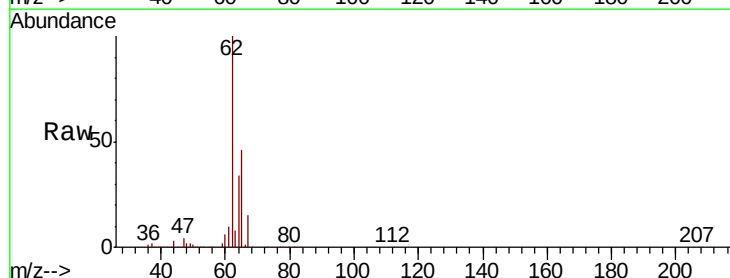
Acq: 11 Dec 2019 05:49

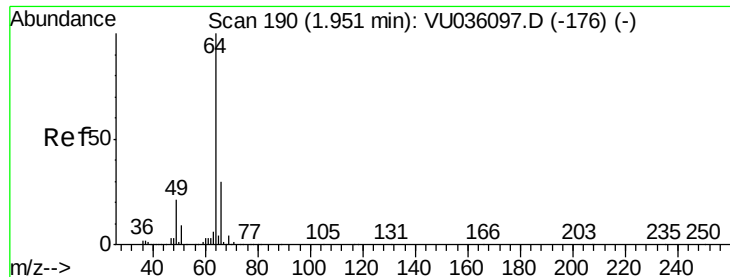
Tgt Ion: 62 Resp: 224944

Ion Ratio Lower Upper

62 100

64 34.0 24.3 45.1





#8

Chloroethane

Concen: 0.166 ug/L

RT: 1.96 min Scan# 192

Delta R.T. 0.01 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

Instrument :

MSVOA_U

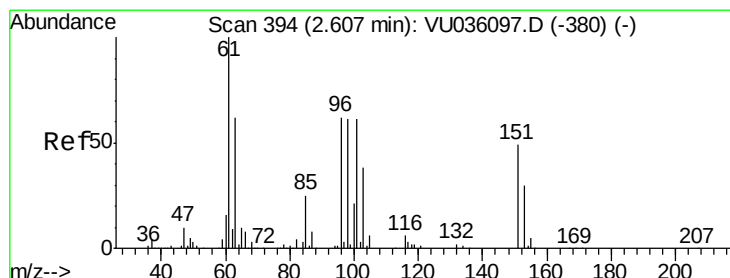
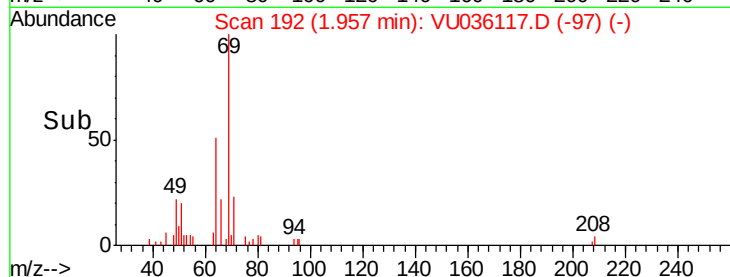
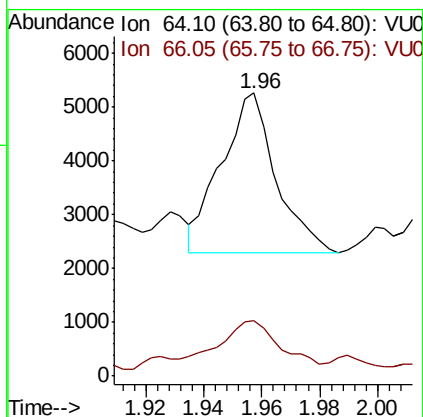
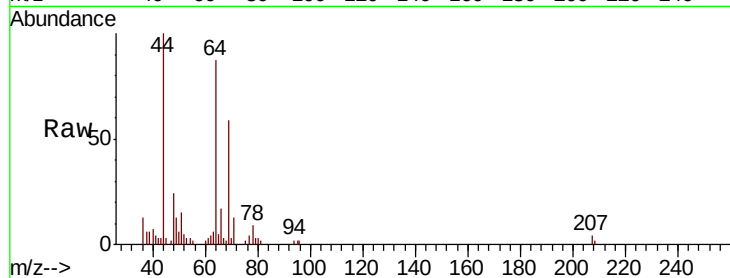
ClientSampleId :

Tot Ion: 64 Resp: 3868

Ion Ratio Lower Upper

64 100

66 19.4 21.5 39.9#



#12

1,1-Dichloroethene

Concen: 0.769 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

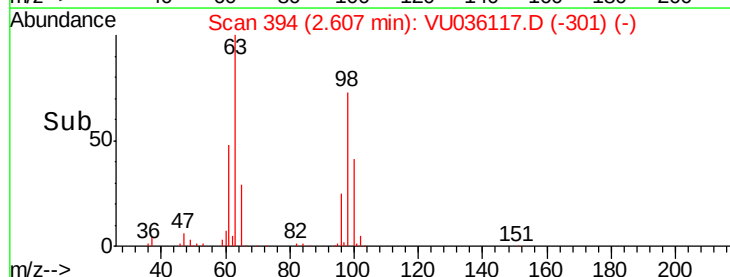
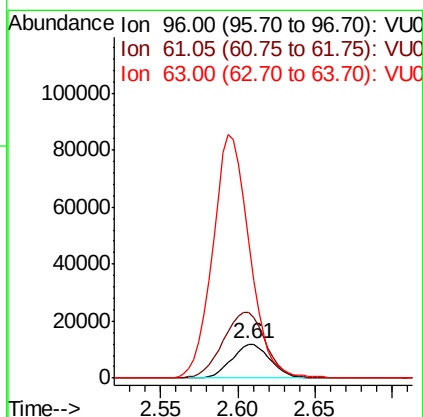
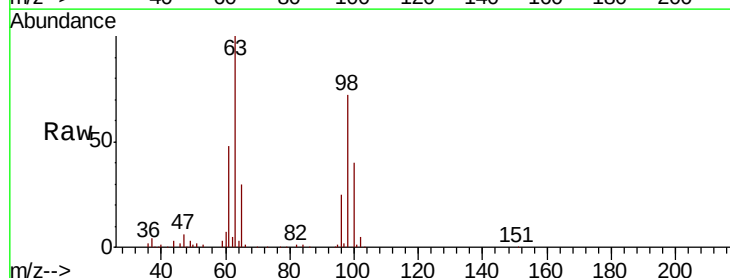
Tgt Ion: 96 Resp: 20410

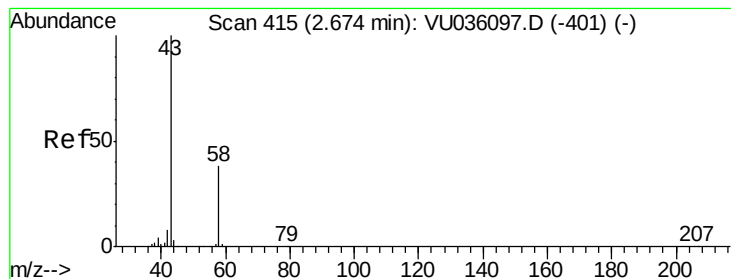
Ion Ratio Lower Upper

96 100

61 193.9 104.3 193.7#

63 402.9 65.6 121.8#





#13

Acetone

Concen: 2.936 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.01 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

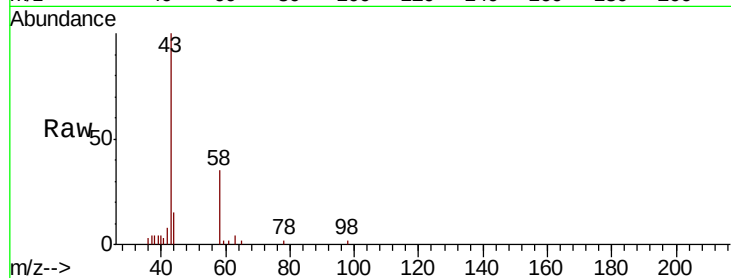
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 17279

Ion Ratio Lower Upper

43 100

58 34.5 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU036117.D (-412) (-)

Ion 58.05 (57.75 to 58.75): VU036117.D (-412) (-)

2.66

10000

8000

6000

4000

2000

0

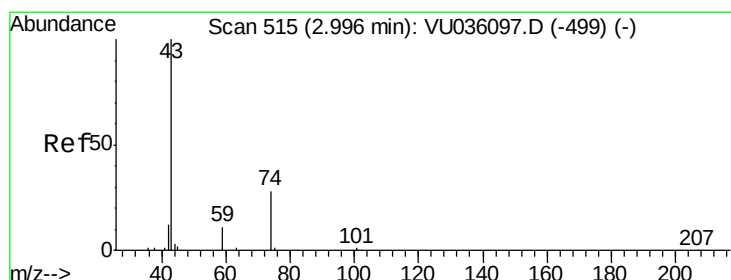
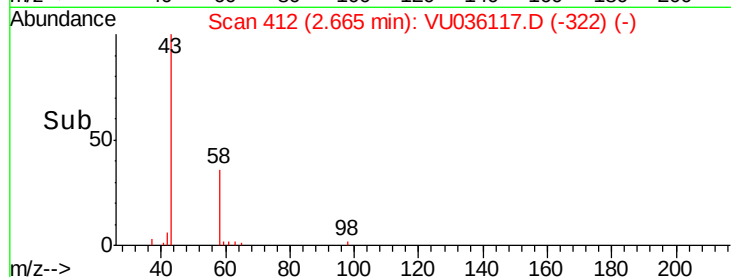
Time-->

2.60

2.65

2.70

2.75



#15

Methyl Acetate

Concen: 2.411 ug/L

RT: 2.80 min Scan# 454

Delta R.T. -0.20 min

Lab File: VU036117.D

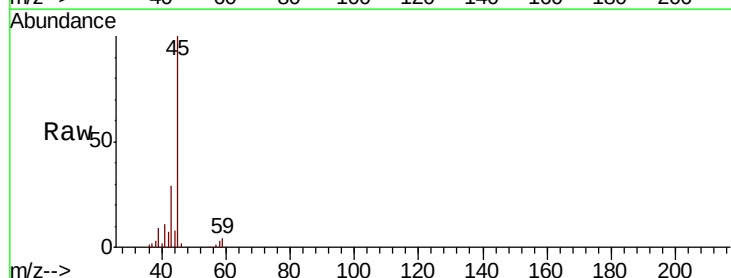
Acq: 11 Dec 2019 05:49

Tgt Ion: 43 Resp: 20944

Ion Ratio Lower Upper

43 100

74 0.0 21.0 31.4#



Abundance Ion 43.05 (42.75 to 43.75): VU036117.D (-454) (-)

Ion 74.05 (73.75 to 74.75): VU036117.D (-454) (-)

2.80

12000

10000

8000

6000

4000

2000

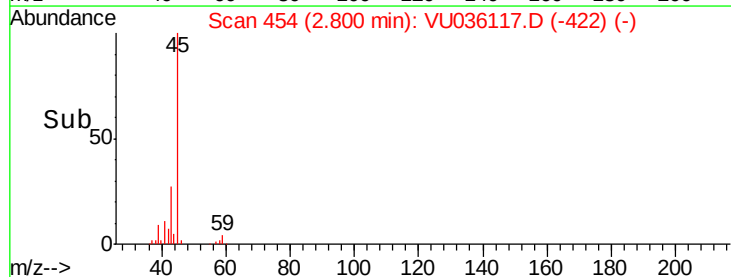
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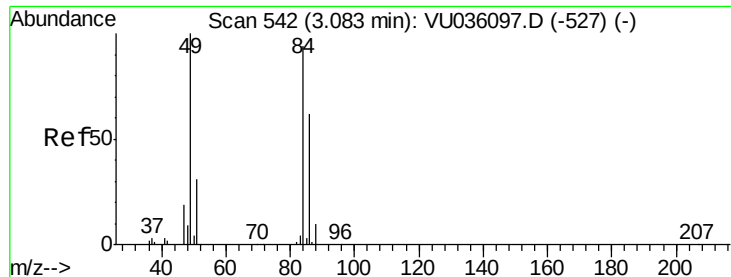
Time-->

2.75

2.80

2.85

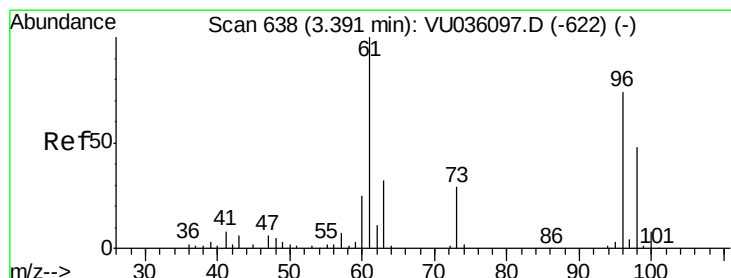
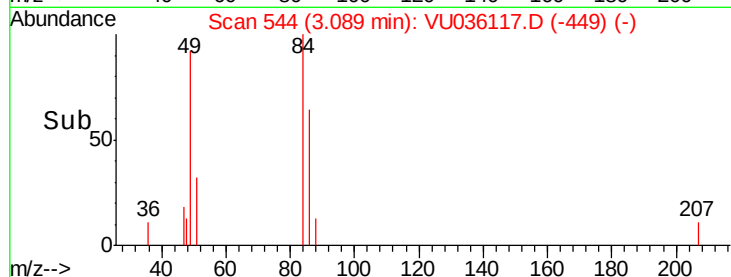
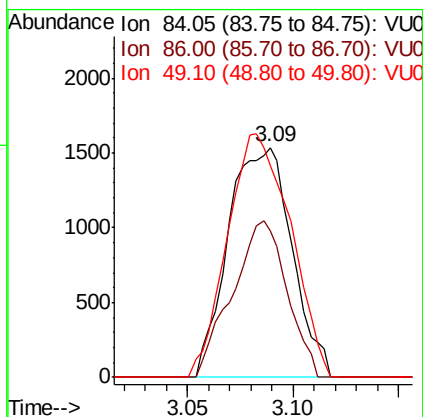
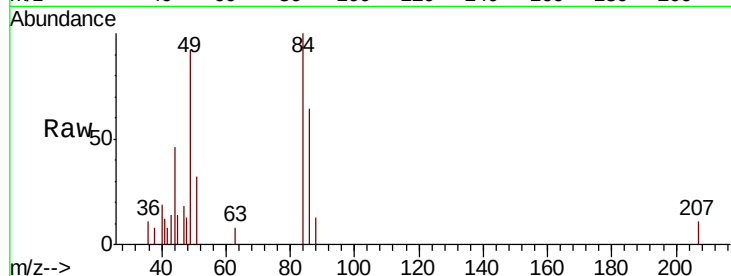




#16
Methylene chloride
Concen: 0.104 ug/L
RT: 3.09 min Scan# 544
Delta R.T. 0.01 min
Lab File: VU036117.D
Acq: 11 Dec 2019 05:49

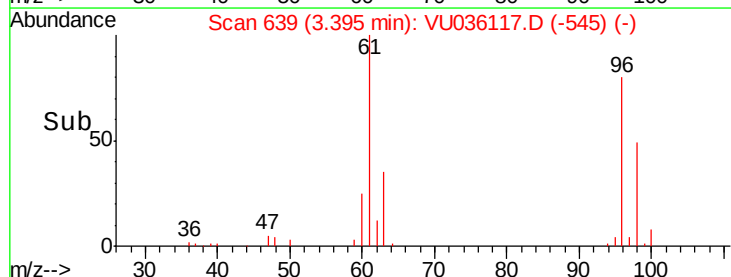
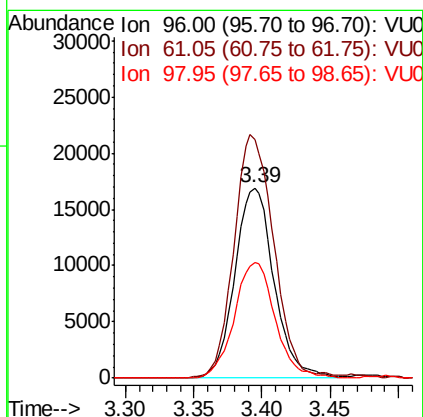
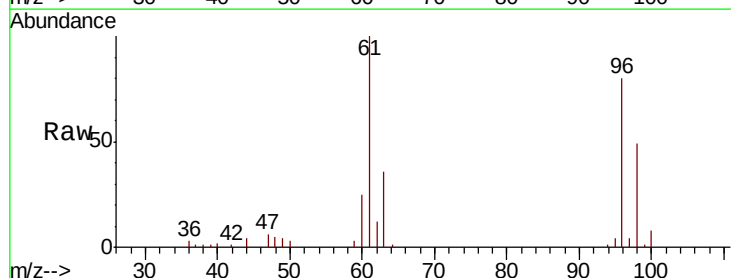
Instrument :
MSVOA_U
ClientSampleId :

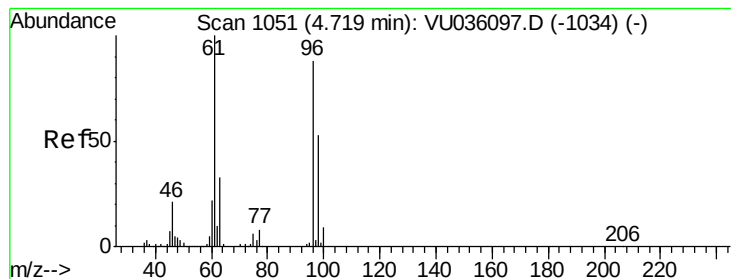
Tot Ion: 84 Resp: 3220
Ion Ratio Lower Upper
84 100
86 63.6 47.5 88.3
49 92.3 76.9 142.9



#18
trans-1,2-Dichloroethene
Concen: 1.491 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.00 min
Lab File: VU036117.D
Acq: 11 Dec 2019 05:49

Tgt Ion: 96 Resp: 33804
Ion Ratio Lower Upper
96 100
61 125.4 92.0 170.8
98 61.0 44.6 82.8





#22

cis-1,2-Dichloroethene

Concen: 422.381 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

Instrument :

MSVOA_U

ClientSampleId :

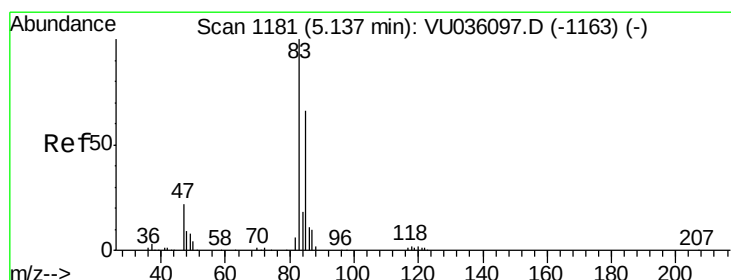
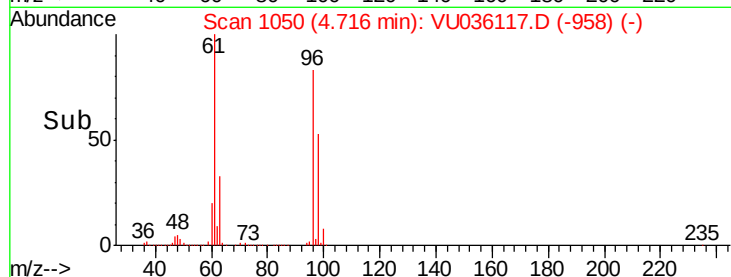
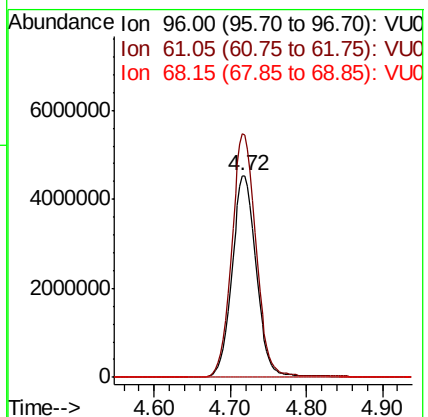
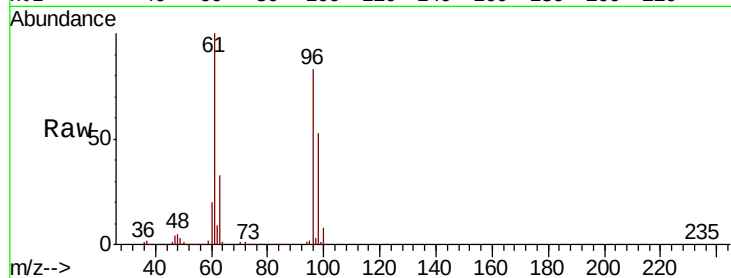
Tot Ion: 96 Resp:10047283

Ion Ratio Lower Upper

96 100

61 120.7 83.0 154.2

68 0.0 0.0 0.0#



#25

Chloroform

Concen: 0.461 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU036117.D

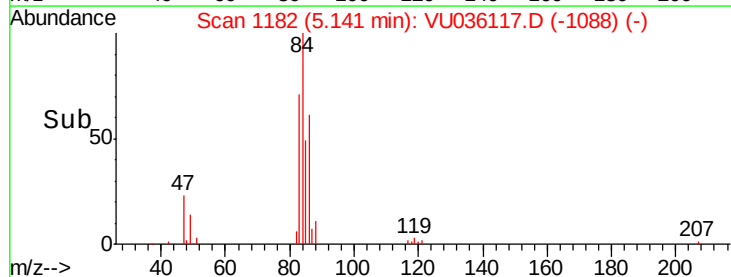
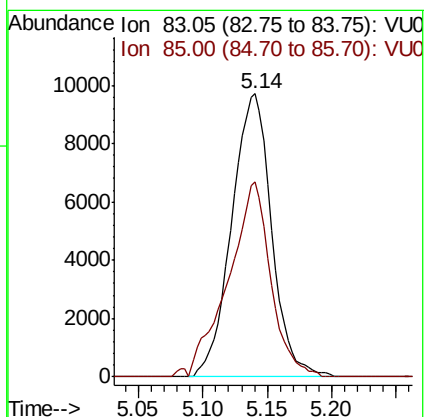
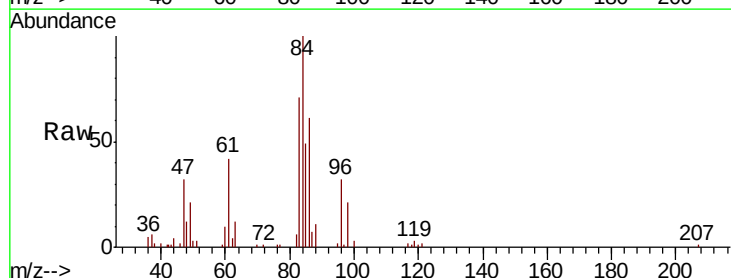
Acq: 11 Dec 2019 05:49

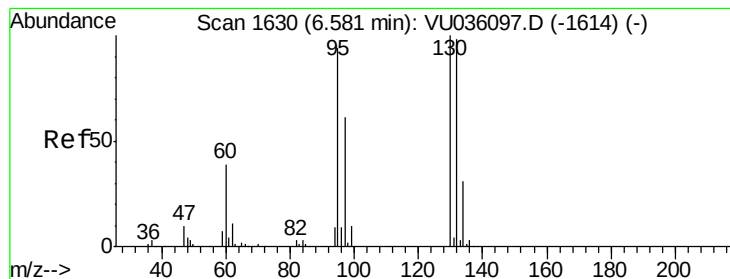
Tgt Ion: 83 Resp: 20921

Ion Ratio Lower Upper

83 100

85 68.8 43.9 81.5





#34

Trichloroethene

Concen: 98.778 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 2418986

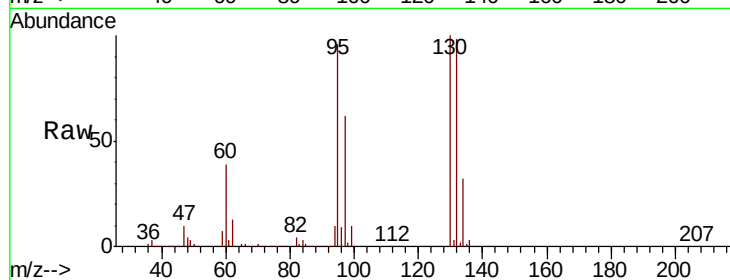
Ion Ratio Lower Upper

95 100

97 64.6 44.4 82.4

132 101.6 73.4 136.4

130 103.9 75.9 141.1

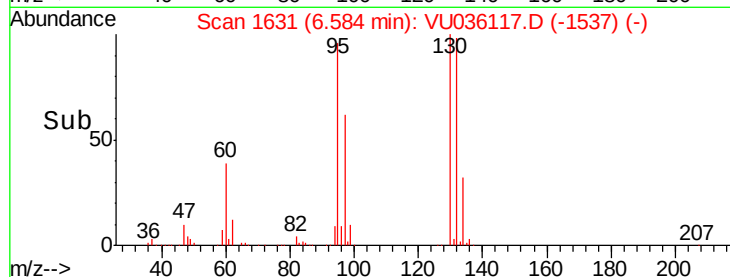


Abundance Ion 95.00 (94.70 to 95.70): VU0

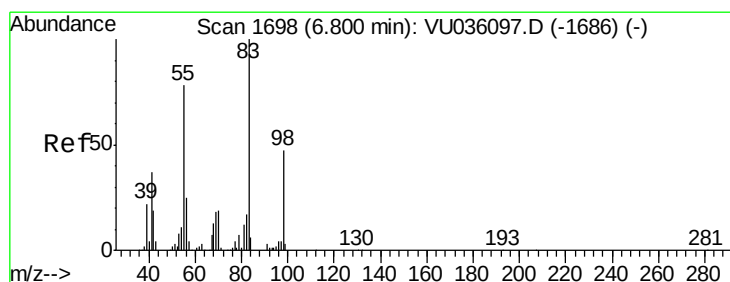
Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



Time-->



#35

Methylcyclohexane

Concen: 0.934 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

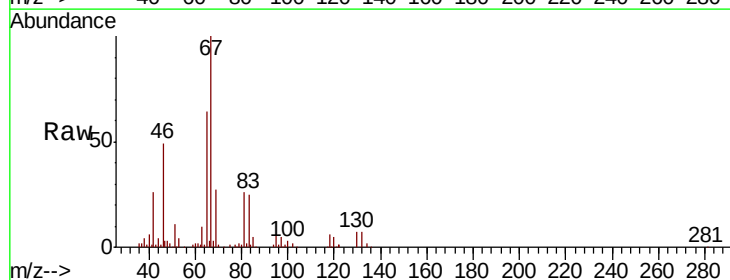
Tgt Ion: 83 Resp: 30703

Ion Ratio Lower Upper

83 100

55 0.6 62.1 93.1#

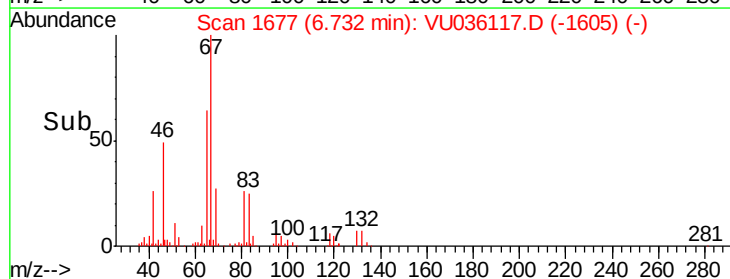
98 0.0 37.0 55.4#



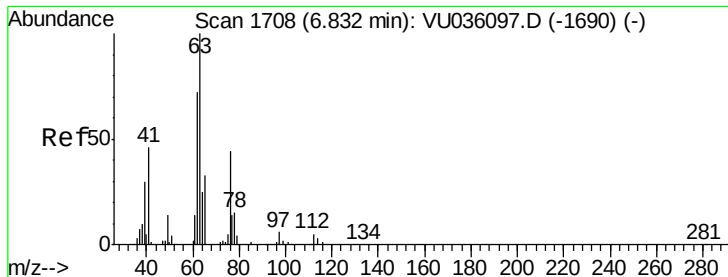
Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



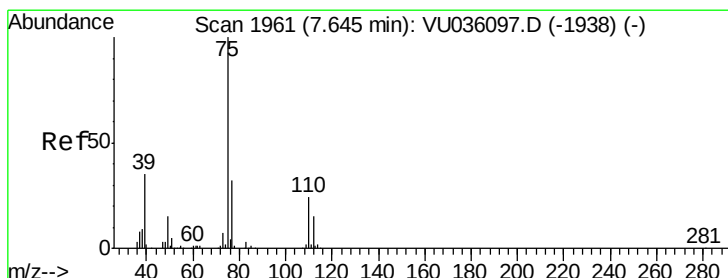
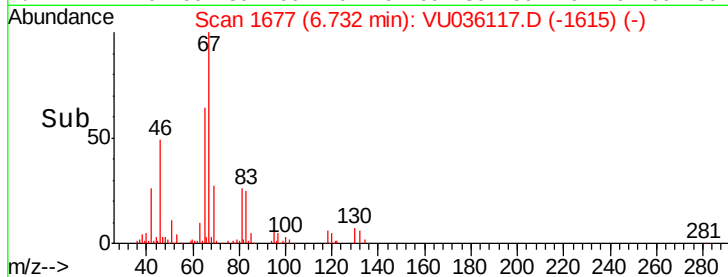
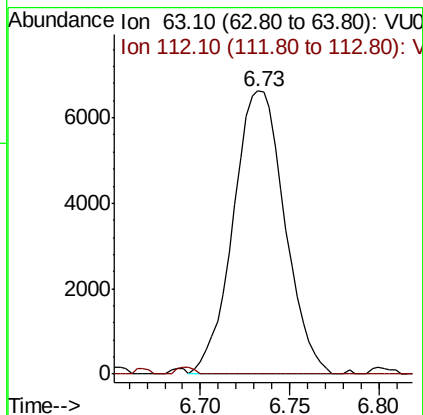
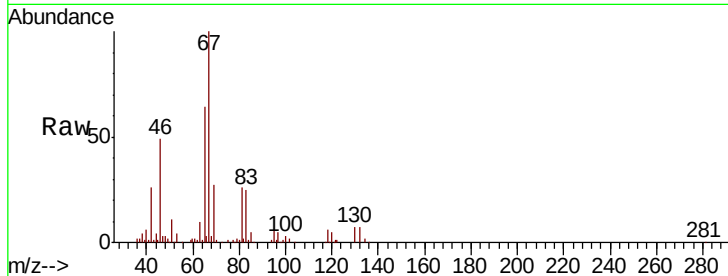
Time-->



#37
 1,2-Dichloropropane
 Concen: 0.576 ug/L
 RT: 6.73 min Scan# 1677
 Delta R.T. -0.10 min
 Lab File: VU036117.D
 Acq: 11 Dec 2019 05:49

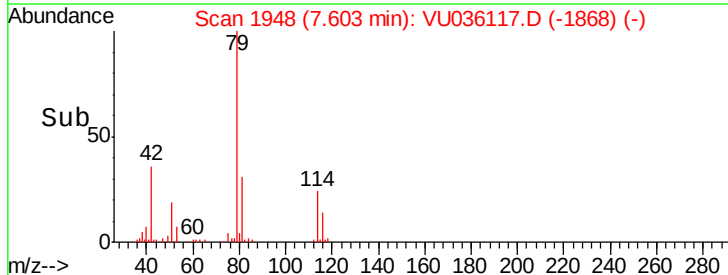
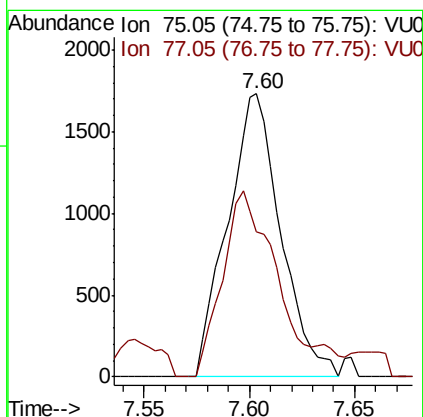
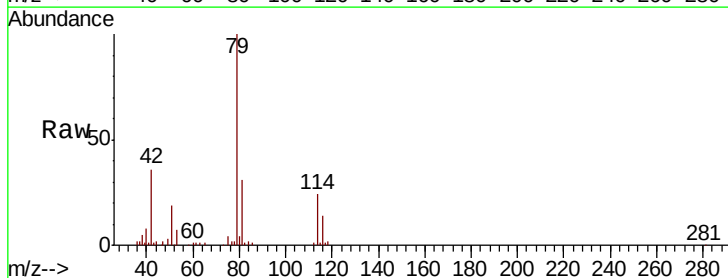
Instrument :
 MSVOA_U
 ClientSampleId :

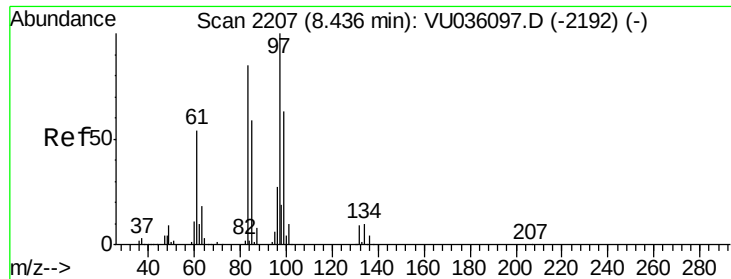
Tot Ion: 63 Resp: 13324
 Ion Ratio Lower Upper
 63 100
 112 0.8 3.8 5.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.096 ug/L
 RT: 7.60 min Scan# 1948
 Delta R.T. -0.04 min
 Lab File: VU036117.D
 Acq: 11 Dec 2019 05:49

Tgt Ion: 75 Resp: 3033
 Ion Ratio Lower Upper
 75 100
 77 51.2 21.7 40.3#





#45

1,1,2-Trichloroethane

Concen: 20.666 ug/L

RT: 8.60 min Scan# 2259

Delta R.T. 0.17 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 376440

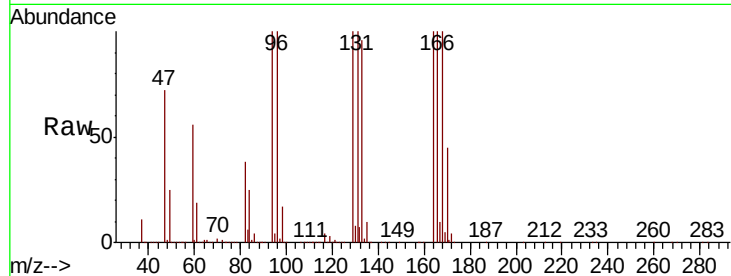
Ion Ratio Lower Upper

97 100

99 16.2 46.1 85.7#

83 246.0 59.6 110.8#

85 34.7 40.5 75.3#



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

600000

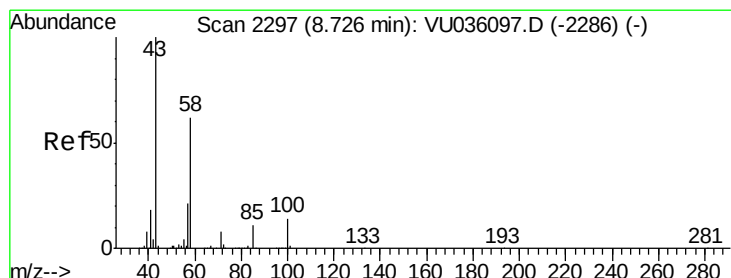
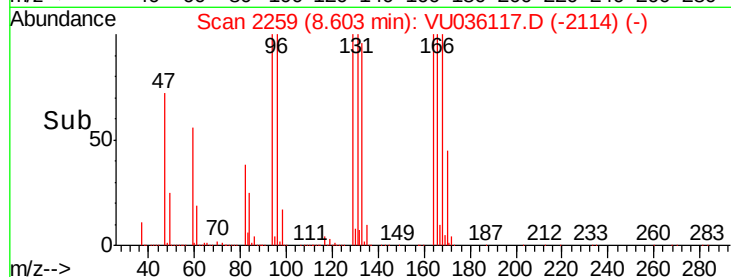
400000

200000

0

8.50 8.55 8.60 8.65

Time-->



#48

2-Hexanone

Concen: 1.943 ug/L

RT: 8.68 min Scan# 2282

Delta R.T. -0.05 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

Tgt Ion: 43 Resp: 16846

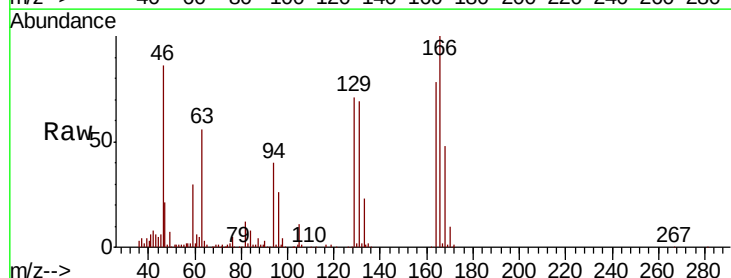
Ion Ratio Lower Upper

43 100

58 19.6 46.9 70.3#

57 24.3 16.4 24.6

100 0.0 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

12000

10000

8000

6000

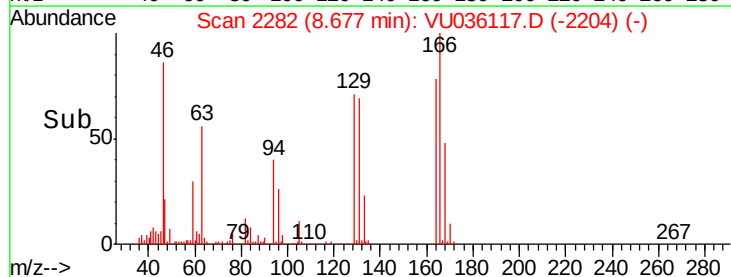
4000

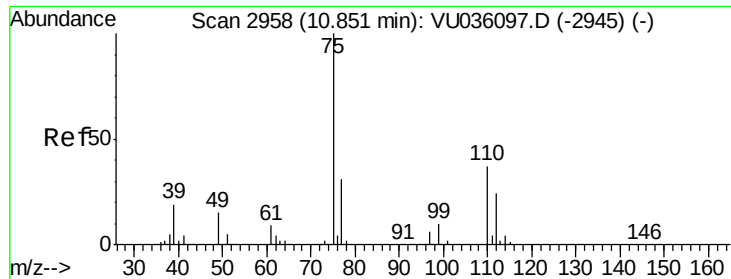
2000

0

8.65 8.70

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.618 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU036117.D

Acq: 11 Dec 2019 05:49

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 10213

Ion Ratio Lower Upper

75 100

77 16.8 26.7 40.1#

