

Data File : VU041396.D
Acq On : 23 Nov 2020 18:39
Operator : SY/MD
Sample : L4849-04DL 10X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
H4407DL

Quant Time: Nov 24 01:55:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR112320WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 24 01:52:19 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	66837	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	64230	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	30044	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	21796	4.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.80%
7) Chloroethane-d5	1.92	69	16803	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.80%
11) 1,1-Dichloroethene-d2	2.58	63	36477	3.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.20%
20) 2-Butanone-d5	4.66	46	73358	61.30	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.60%
24) Chloroform-d	5.08	84	43550	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.72	65	29277	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
32) Benzene-d6	5.74	84	82875	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.60%
36) 1,2-Dichloropropane-d6	6.70	67	29063	5.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	116.20%
41) Toluene-d8	7.91	98	72451	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
43) trans-1,3-Dichloropropene-	8.19	79	12332	5.43	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.60%
46) 2-Hexanone-d5	8.64	63	46327	62.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	124.74%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	24084	5.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	118.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	27043	5.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.00%

Target Compounds

					Qvalue
5) Vinyl chloride	1.61	62	5655	0.968 ug/L	100
8) Chloroethane	1.98	64	102	0.031 ug/L #	40
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	216	0.046 ug/L #	21
12) 1,1-Dichloroethene	2.58	96	250	0.061 ug/L #	1
16) Methylene chloride	3.06	84	6364	1.082 ug/L	96
17) Methyl tert-butyl Ether	3.38	73	7440	0.726 ug/L	98
18) trans-1,2-Dichloroethene	3.37	96	3800	0.851 ug/L	90
19) 1,1-Dichloroethane	3.89	63	771	0.087 ug/L #	89
21) 2-Butanone	4.83	43	120845	94.072 ug/L #	51
22) cis-1,2-Dichloroethene	4.68	96	43776	9.223 ug/L	98
25) Chloroform	5.11	83	2870	0.294 ug/L	95
27) 1,2-Dichloroethane	5.75	62	566	0.089 ug/L #	78
33) Benzene	5.79	78	658	0.038 ug/L	100
34) Trichloroethene	6.55	95	24131	5.143 ug/L	96
35) Methylcyclohexane	6.70	83	7019	1.026 ug/L #	15
37) 1,2-Dichloropropane	6.70	63	3113	0.659 ug/L #	90
39) cis-1,3-Dichloropropene	7.58	75	786	0.120 ug/L	87

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QLast Update : Tue Nov 24 01:52:19 2020
Response via : Initial Calibration

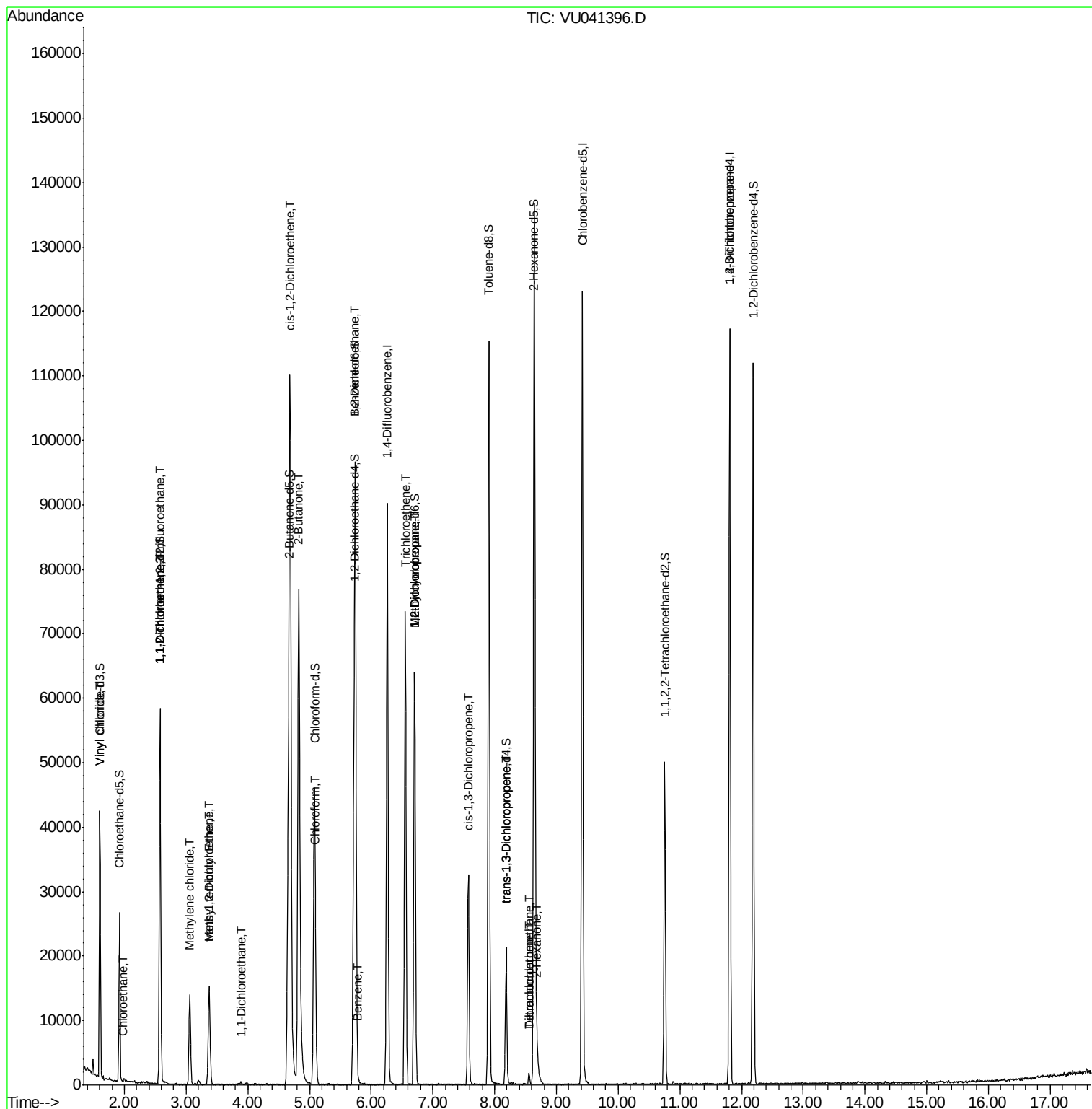
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.18	75	514	0.086	ug/L #	82
47) Tetrachloroethene	8.55	164	358	0.102	ug/L	75
48) 2-Hexanone	8.69	43	1132	0.532	ug/L #	44
49) Dibromochloromethane	8.56	129	423	0.103	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	3682	1.192	ug/L #	83

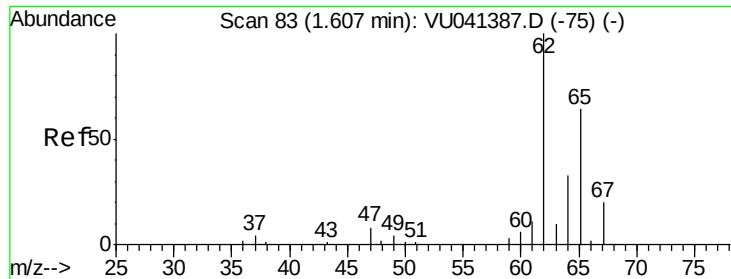
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.968 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.00 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampleId :

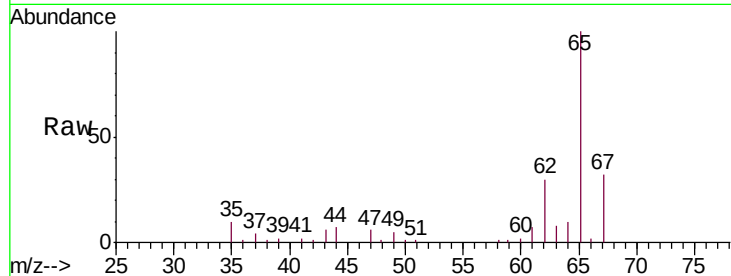
H4407DL

Tgt Ion: 62 Resp: 5655

Ion Ratio Lower Upper

62 100

64 34.2 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.61

6000

5000

4000

3000

2000

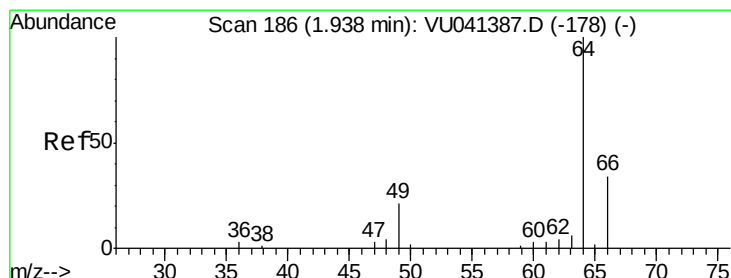
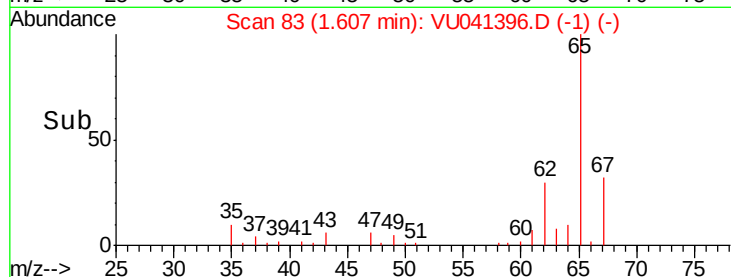
1000

0

Time-->

1.60

1.65



#8

Chloroethane

Concen: 0.031 ug/L

RT: 1.98 min Scan# 198

Delta R.T. 0.04 min

Lab File: VU041396.D

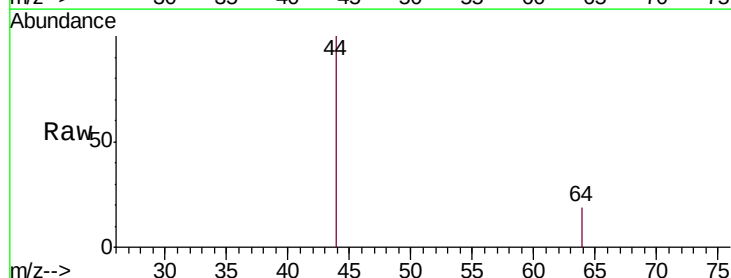
Acq: 23 Nov 2020 18:39

Tgt Ion: 64 Resp: 102

Ion Ratio Lower Upper

64 100

66 0.0 24.6 45.8#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.98

120

100

80

60

40

20

0

Time-->

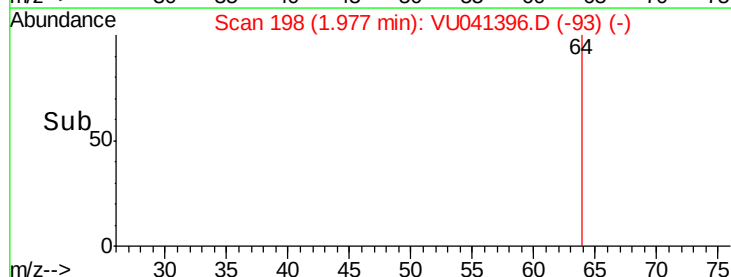
1.95

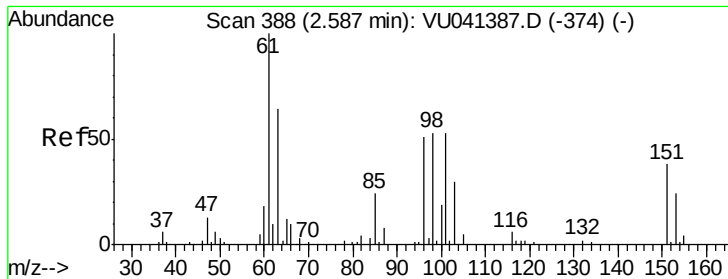
1.96

1.97

1.98

1.99





#10

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

Concen: 0.046 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.01 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampleID :

H4407DL

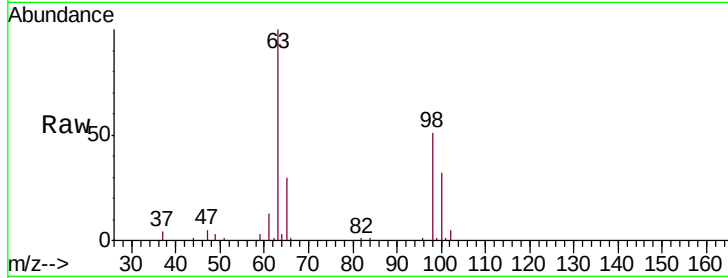
Tgt Ion: 101 Resp: 216

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

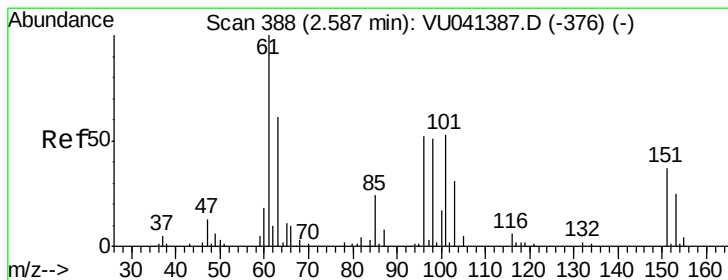
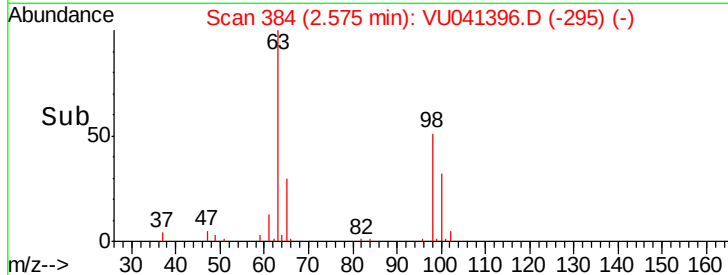
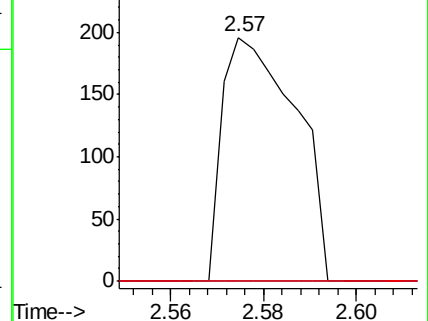
151 0.0 56.2 84.2#



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: 0.061 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

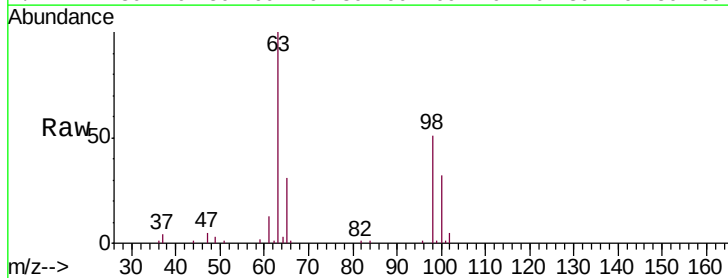
Tgt Ion: 96 Resp: 250

Ion Ratio Lower Upper

96 100

61 1282.2 129.8 241.2#

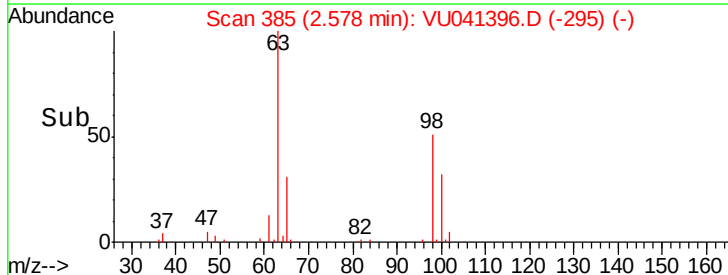
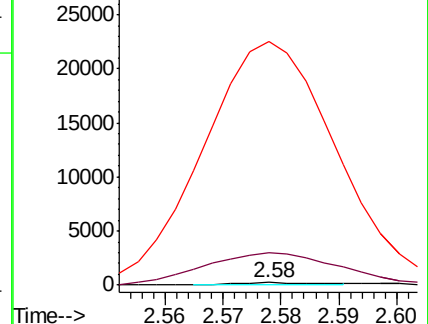
63 9787.8 79.2 147.0#

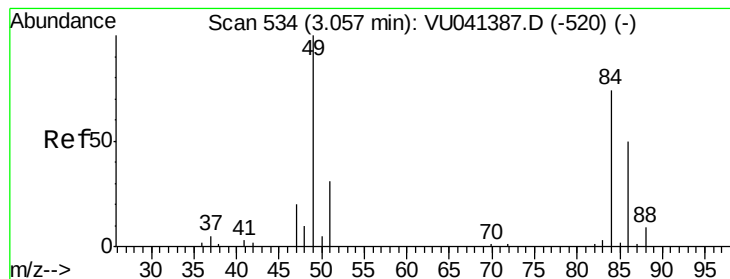


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 1.082 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampleId :

H4407DL

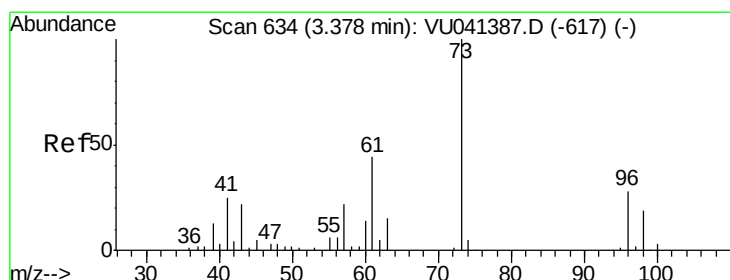
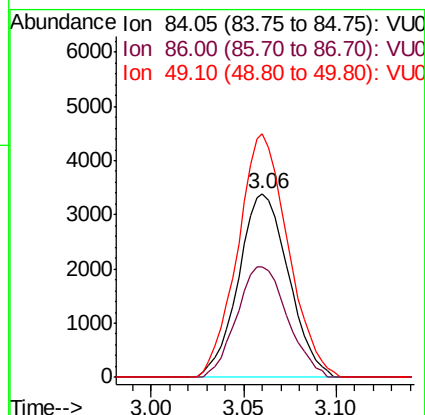
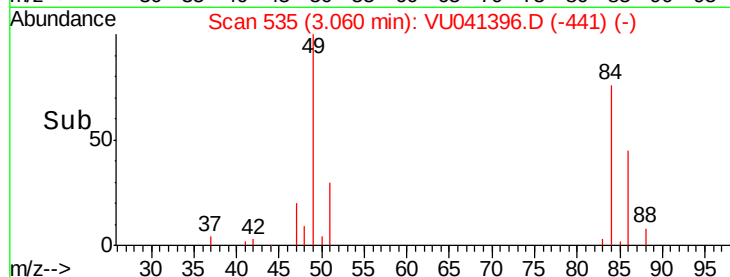
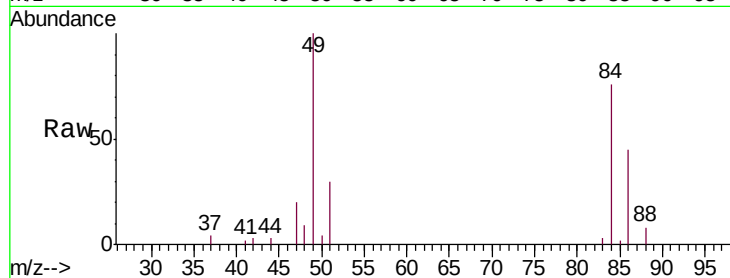
Tgt Ion: 84 Resp: 6364

Ion Ratio Lower Upper

84 100

86 60.2 44.4 82.5

49 132.3 89.9 167.0



#17

Methyl tert-butyl Ether

Concen: 0.726 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

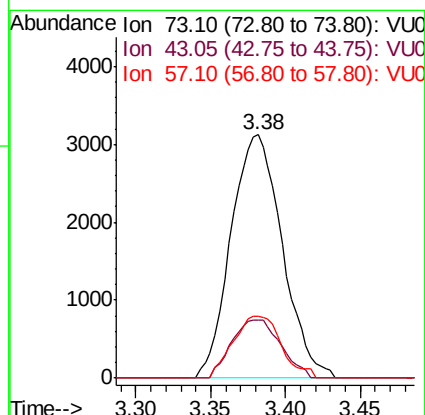
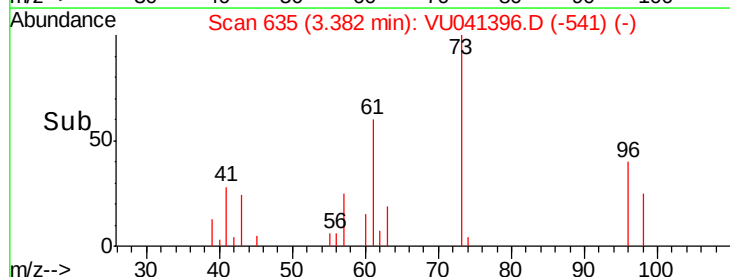
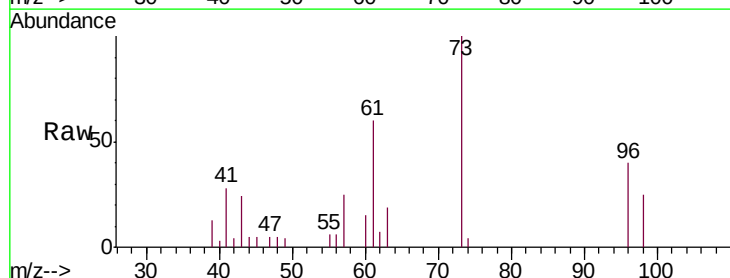
Tgt Ion: 73 Resp: 7440

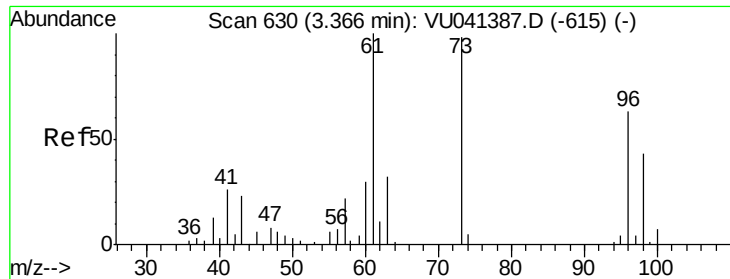
Ion Ratio Lower Upper

73 100

43 22.9 18.3 27.5

57 23.9 17.7 26.5





#18

trans-1,2-Dichloroethene

Concen: 0.851 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampleId :

H4407DL

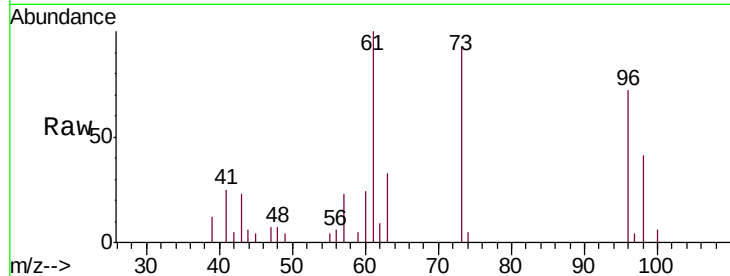
Tgt Ion: 96 Resp: 3800

Ion Ratio Lower Upper

96 100

61 138.3 103.7 192.5

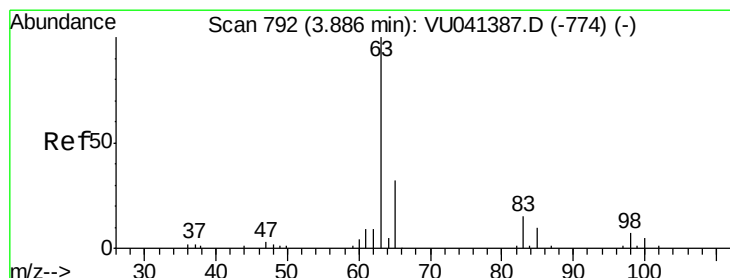
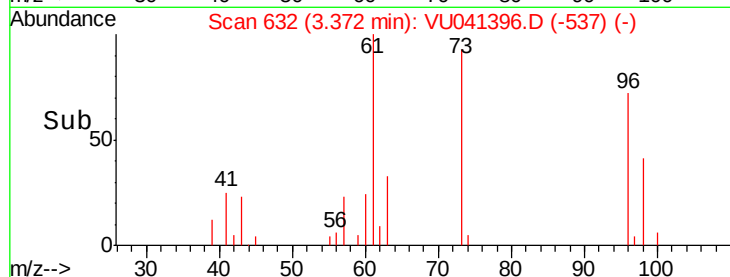
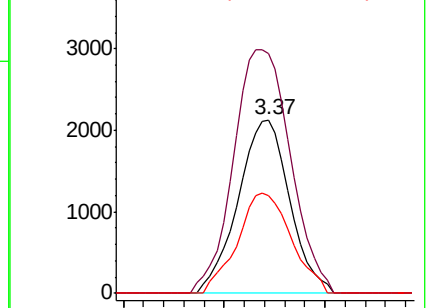
98 56.1 47.5 88.3



Abundance Ion 96.00 (95.70 to 96.70): VU041396.D (-537) (-)

Ion 61.05 (60.75 to 61.75): VU041396.D (-537) (-)

Ion 97.95 (97.65 to 98.65): VU041396.D (-537) (-)



#19

1,1-Dichloroethane

Concen: 0.087 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

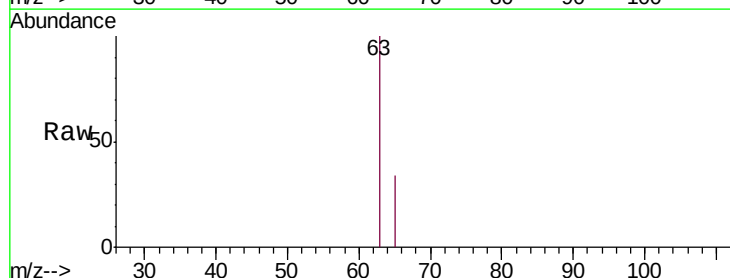
Tgt Ion: 63 Resp: 771

Ion Ratio Lower Upper

63 100

65 34.2 23.0 42.8

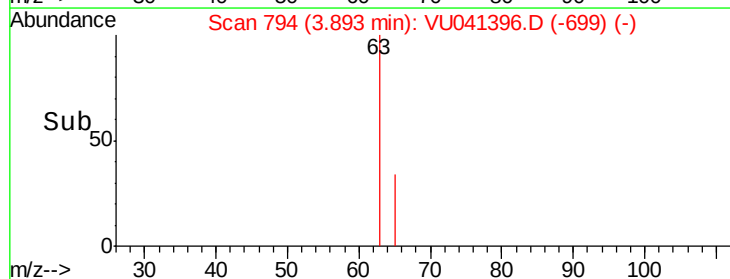
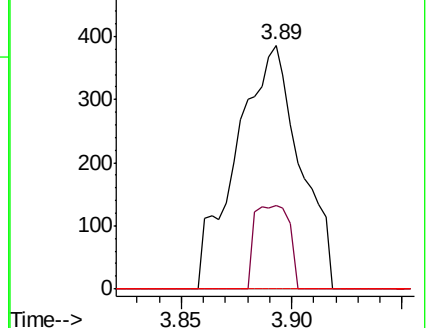
83 0.0 9.4 17.4#

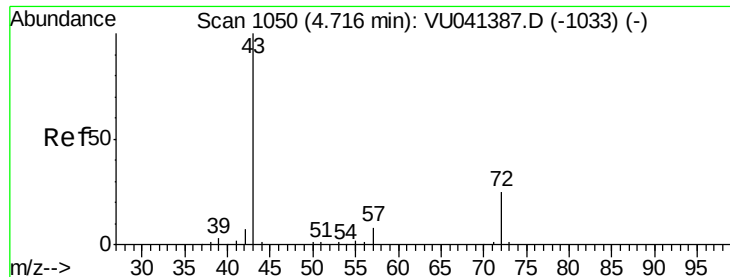


Abundance Ion 63.10 (62.80 to 63.80): VU041396.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU041396.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU041396.D (-699) (-)





#21

2-Butanone

Concen: 94.072 ug/L

RT: 4.83 min Scan# 1084

Delta R.T. 0.11 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampled :

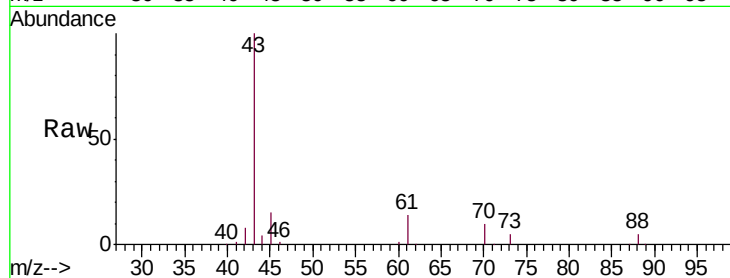
H4407DL

Tgt Ion: 43 Resp: 120845

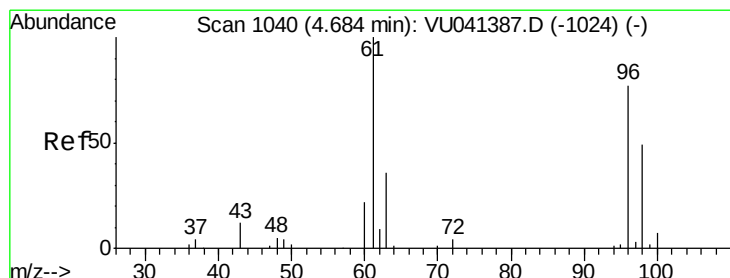
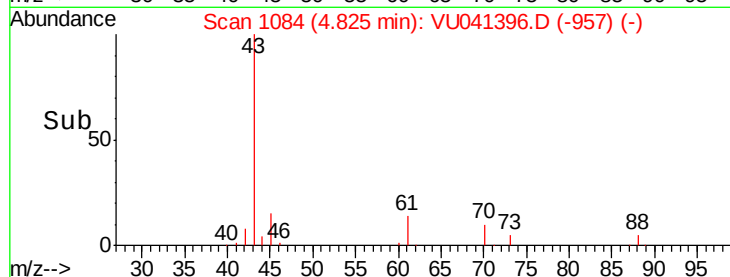
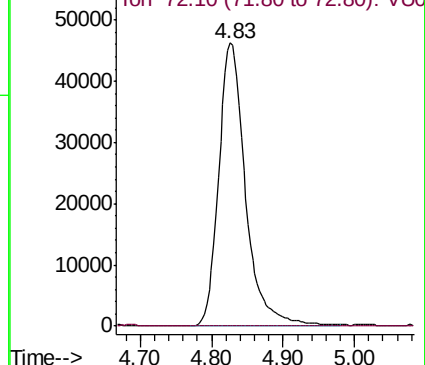
Ion Ratio Lower Upper

43 100

72 0.3 12.6 37.6#



Abundance Ion 43.05 (42.75 to 43.75): VU041396.D (-957) (-)



#22

cis-1,2-Dichloroethene

Concen: 9.223 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

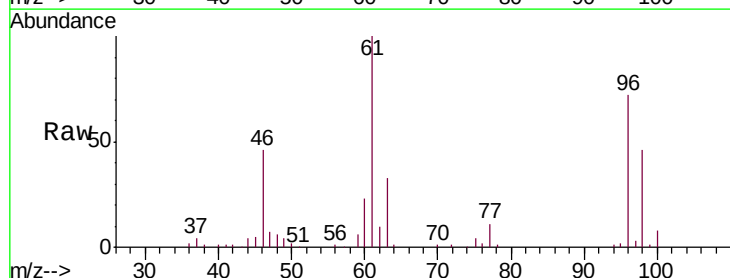
Tgt Ion: 96 Resp: 43776

Ion Ratio Lower Upper

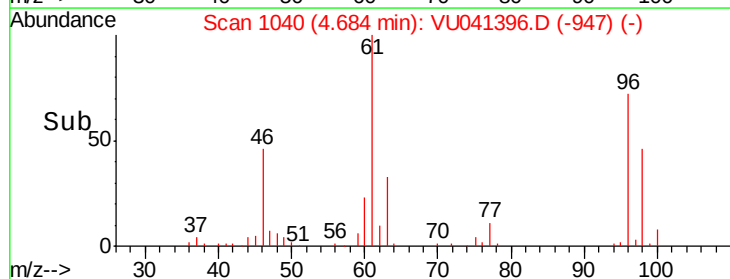
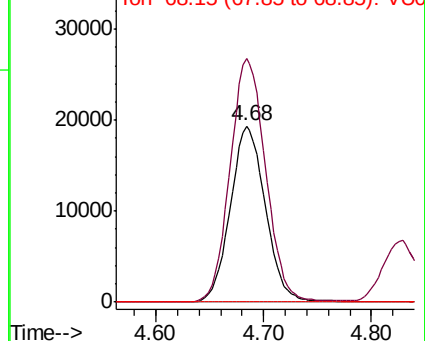
96 100

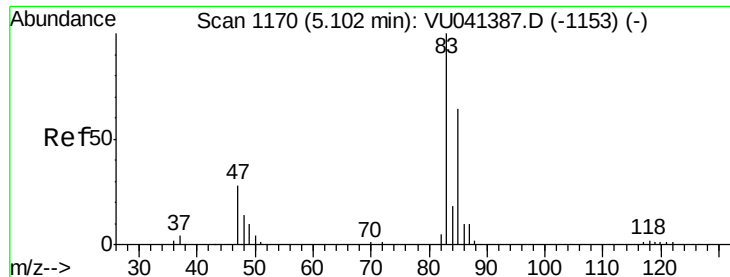
61 138.5 95.3 176.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041396.D (-947) (-)

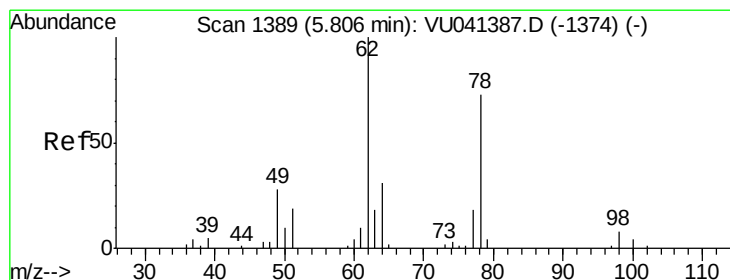
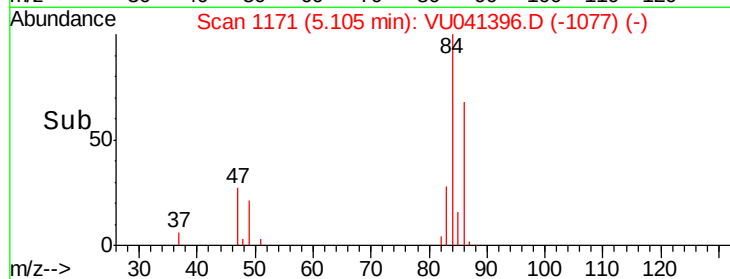
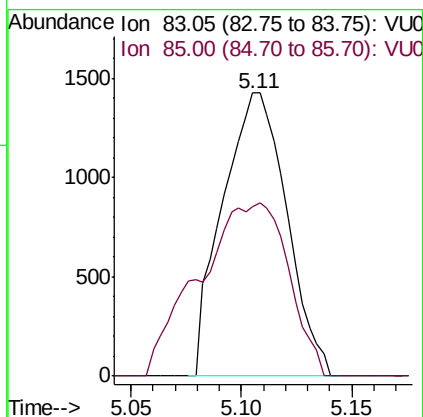
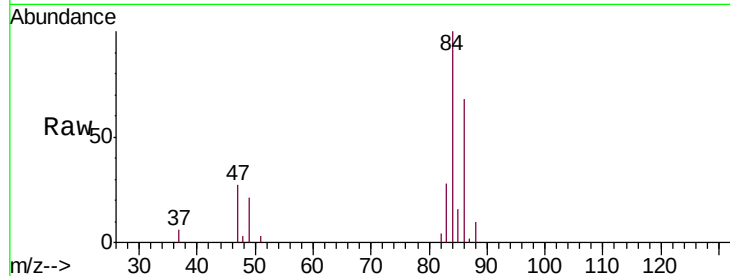




#25
Chloroform
Concen: 0.294 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU041396.D
Acq: 23 Nov 2020 18:39

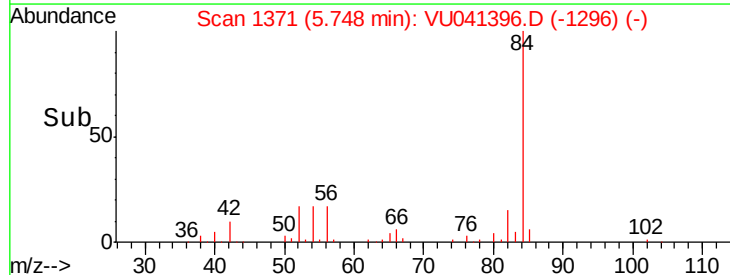
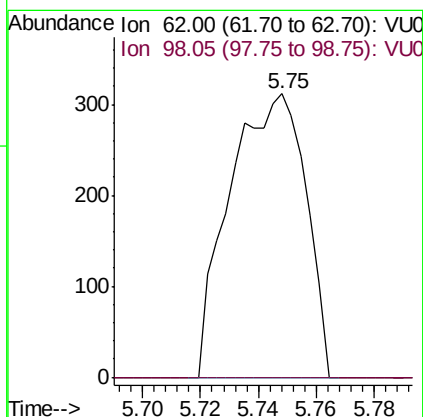
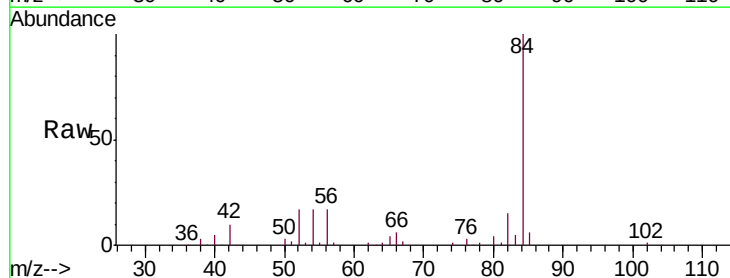
Instrument :
MSVOA_U
ClientSampleID :
H4407DL

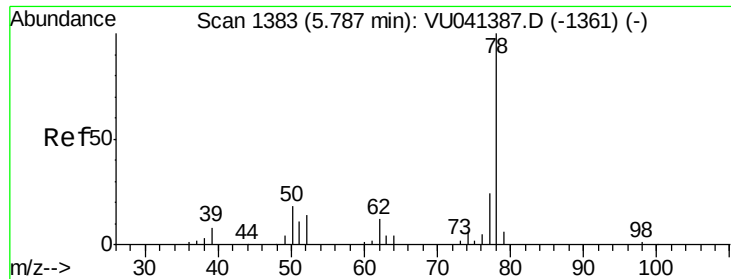
Tgt Ion: 83 Resp: 2870
Ion Ratio Lower Upper
83 100
85 59.7 44.7 82.9



#27
1,2-Dichloroethane
Concen: 0.089 ug/L
RT: 5.75 min Scan# 1371
Delta R.T. -0.06 min
Lab File: VU041396.D
Acq: 23 Nov 2020 18:39

Tgt Ion: 62 Resp: 566
Ion Ratio Lower Upper
62 100
98 0.0 6.0 9.0#





#33

Benzene

Concen: 0.038 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

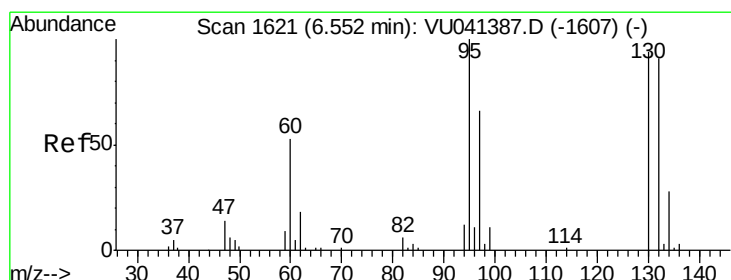
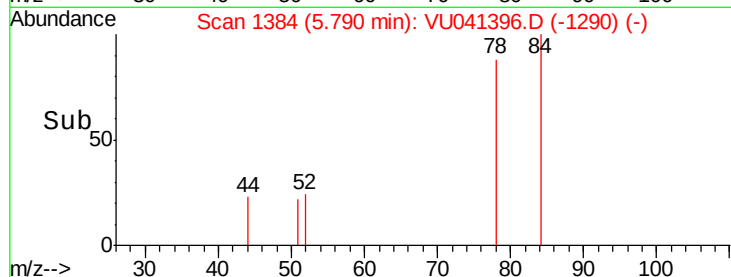
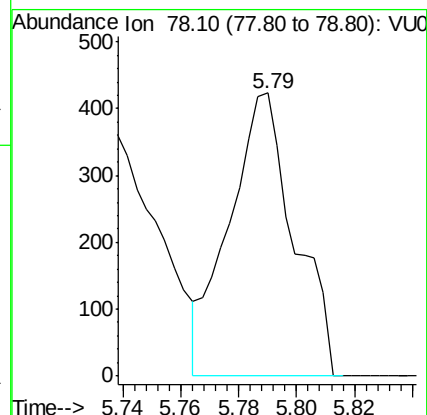
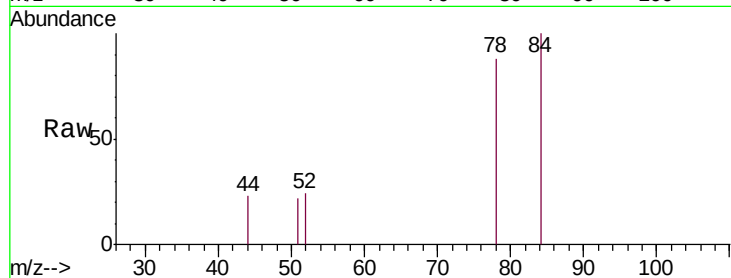
Instrument :

MSVOA_U

ClientSampleId :

H4407DL

Tgt Ion: 78 Resp: 658



#34

Trichloroethene

Concen: 5.143 ug/L

RT: 6.55 min Scan# 1621

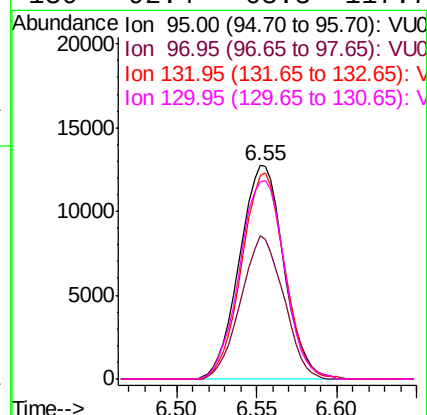
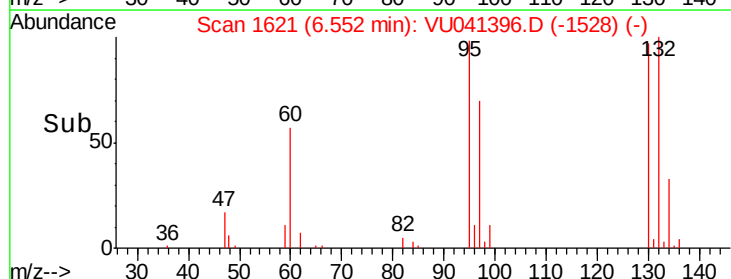
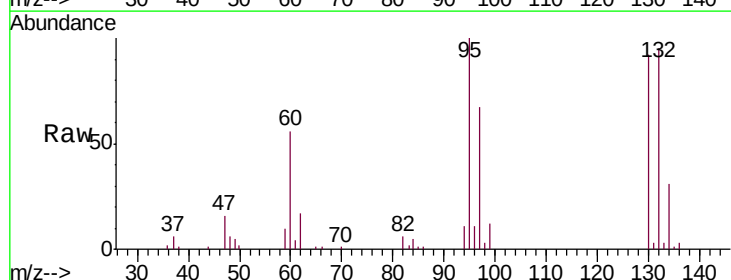
Delta R.T. 0.00 min

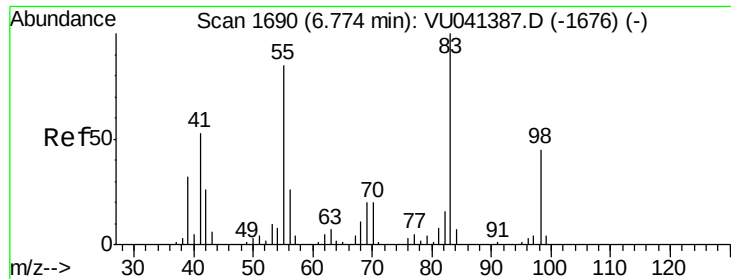
Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Tgt Ion: 95 Resp: 24131

Ion	Ratio	Lower	Upper
95	100		
97	67.0	46.5	86.5
132	95.2	60.8	113.0
130	92.4	63.3	117.7





#35

Methylcyclohexane

Concen: 1.026 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampleId :

H4407DL

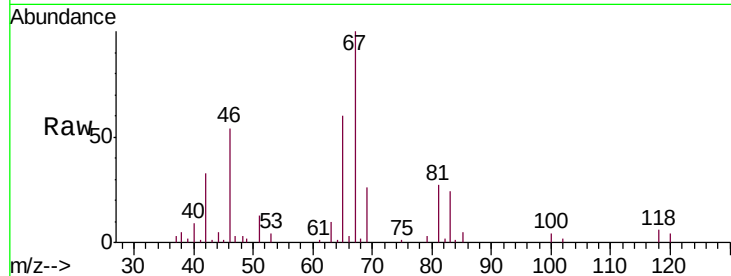
Tgt Ion: 83 Resp: 7019

Ion Ratio Lower Upper

83 100

55 0.0 68.4 102.6#

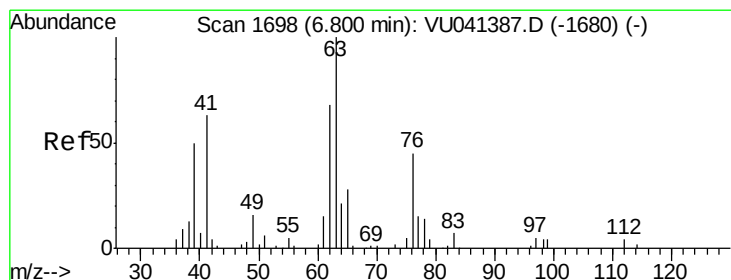
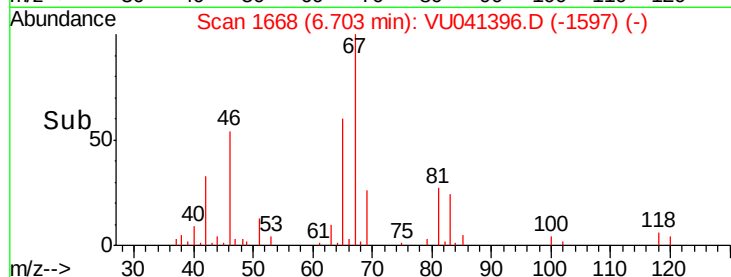
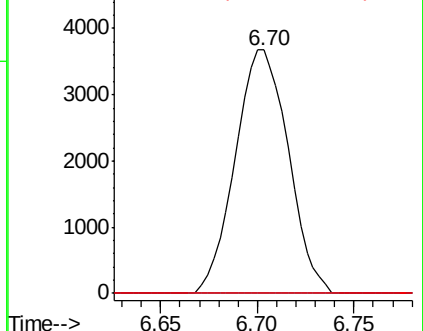
98 0.0 36.5 54.7#



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: 0.659 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041396.D

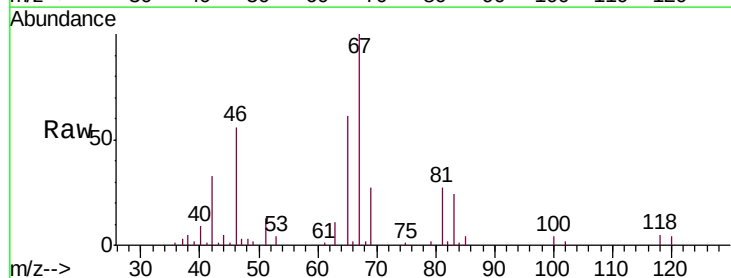
Acq: 23 Nov 2020 18:39

Tgt Ion: 63 Resp: 3113

Ion Ratio Lower Upper

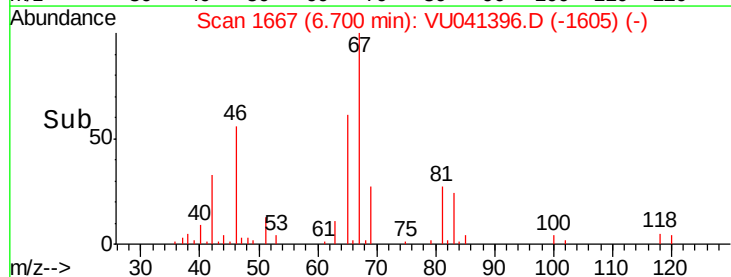
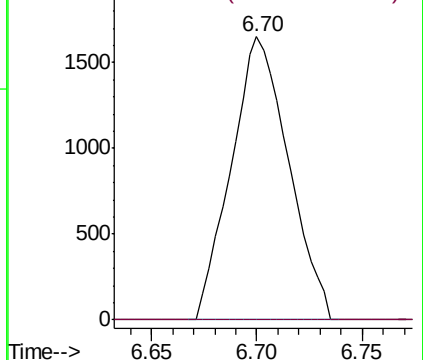
63 100

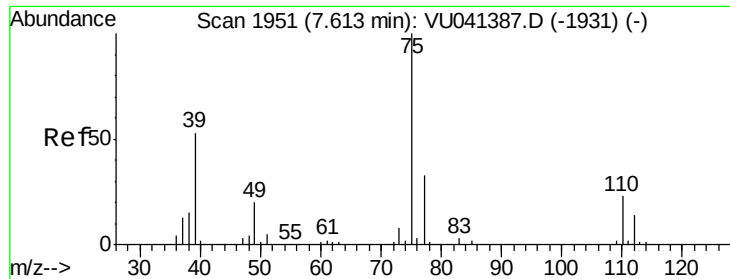
112 0.0 2.6 4.0#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

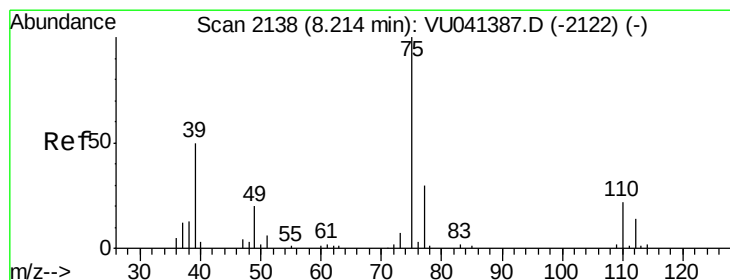
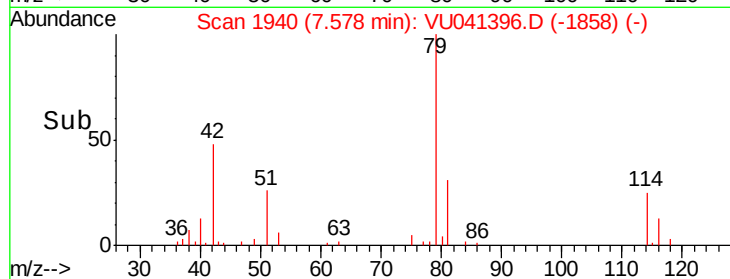
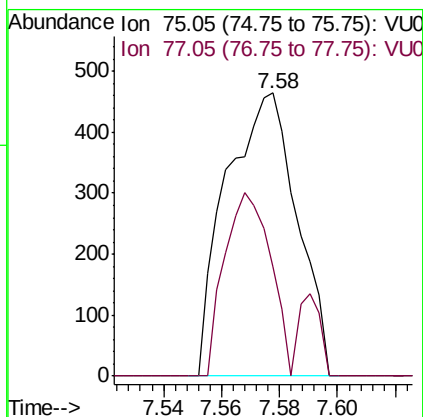
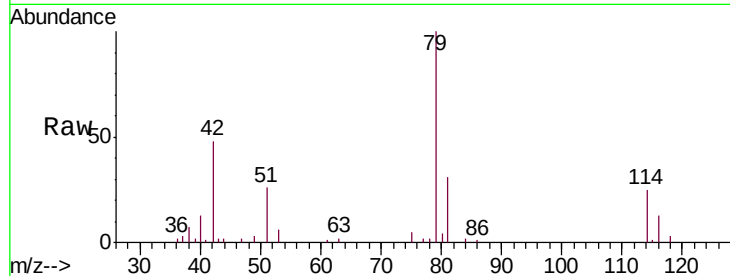




#39
 cis-1,3-Dichloropropene
 Concen: 0.120 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU041396.D
 Acq: 23 Nov 2020 18:39

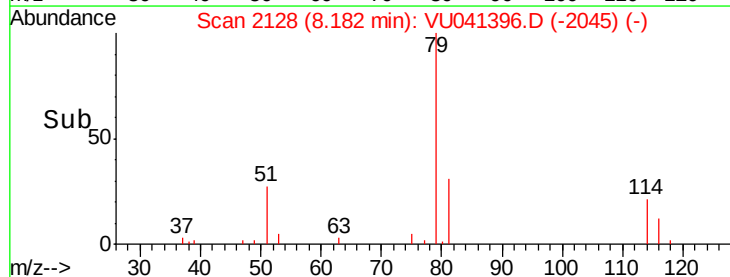
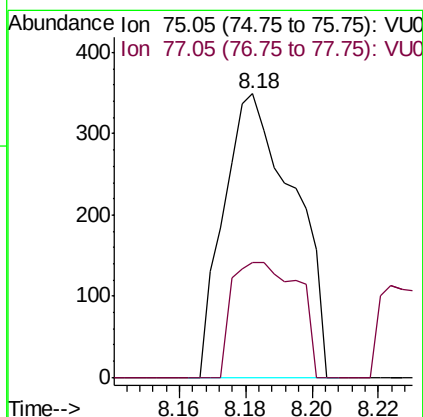
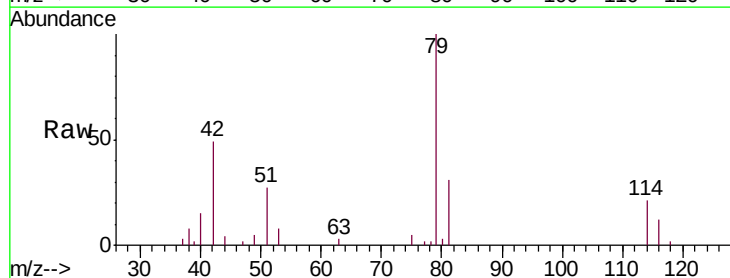
Instrument :
 MSVOA_U
 ClientSampleID :
 H4407DL

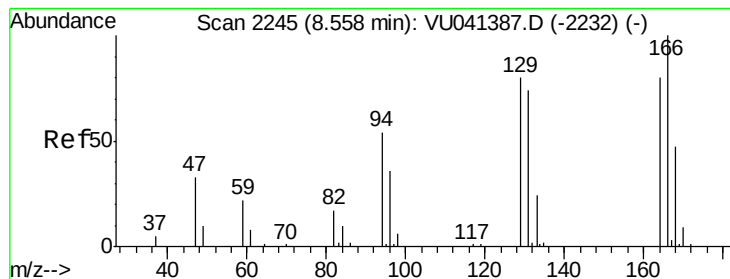
Tgt Ion: 75 Resp: 786
 Ion Ratio Lower Upper
 75 100
 77 38.8 22.1 41.1



#44
 trans-1,3-Dichloropropene
 Concen: 0.086 ug/L
 RT: 8.18 min Scan# 2128
 Delta R.T. -0.03 min
 Lab File: VU041396.D
 Acq: 23 Nov 2020 18:39

Tgt Ion: 75 Resp: 514
 Ion Ratio Lower Upper
 75 100
 77 40.7 21.7 40.3#





#47

Tetrachloroethene

Concen: 0.102 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.01 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampleId :

H4407DL

Tgt Ion: 164 Resp: 358

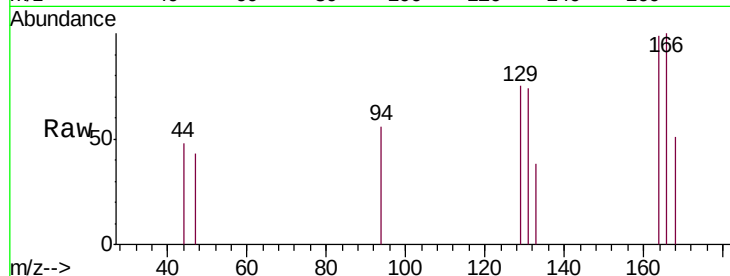
Ion Ratio Lower Upper

164 100

129 76.2 71.0 131.9

131 75.2 69.0 128.1

166 101.3 92.4 171.6

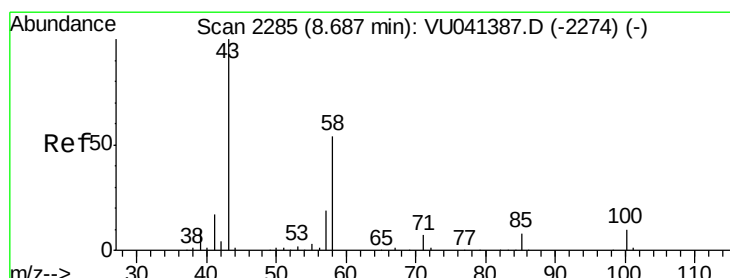
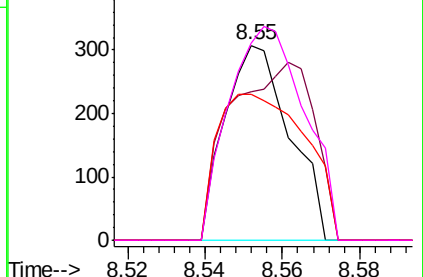
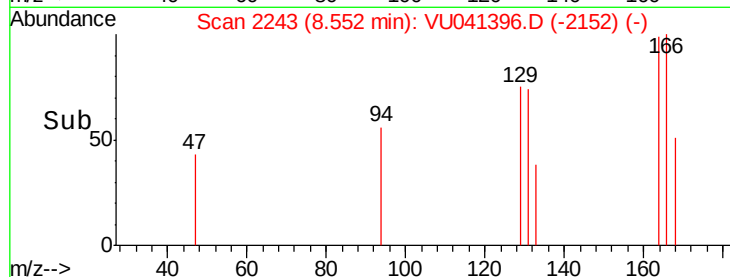


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.532 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Tgt Ion: 43 Resp: 1132

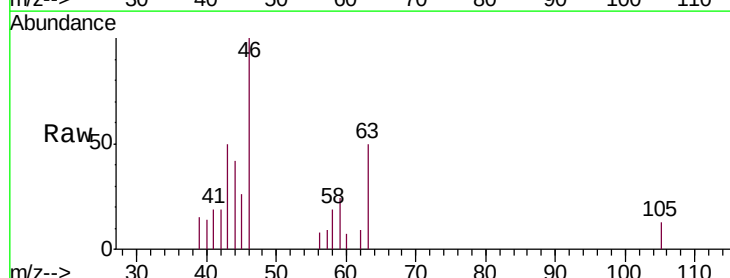
Ion Ratio Lower Upper

43 100

58 0.0 42.0 63.0#

57 9.3 15.0 22.4#

100 0.0 8.4 12.6#

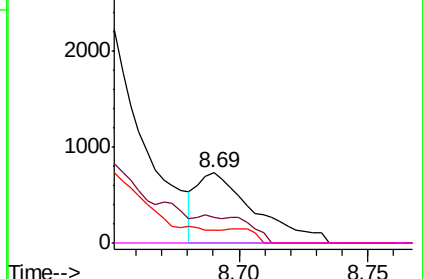
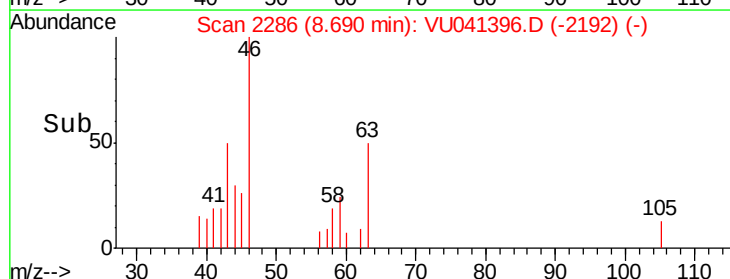


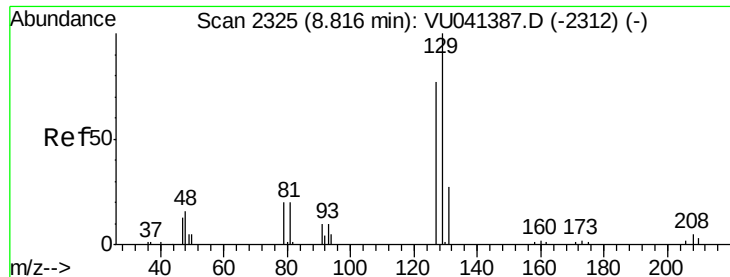
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.103 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. -0.25 min

Lab File: VU041396.D

Acq: 23 Nov 2020 18:39

Instrument :

MSVOA_U

ClientSampleID :

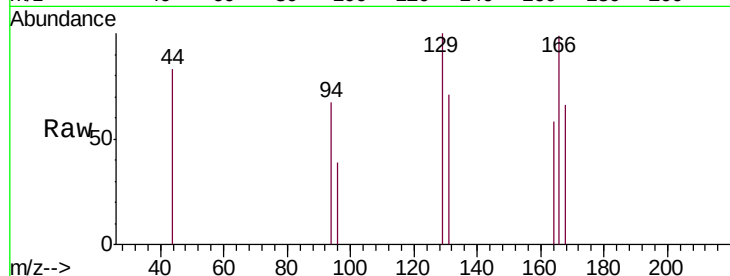
H4407DL

Tgt Ion:129 Resp: 423

Ion Ratio Lower Upper

129 100

127 0.0 55.6 103.4#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

250

200

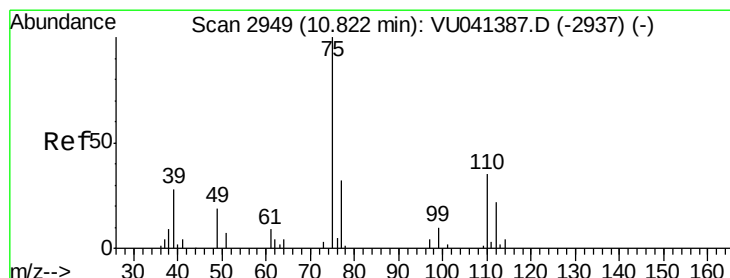
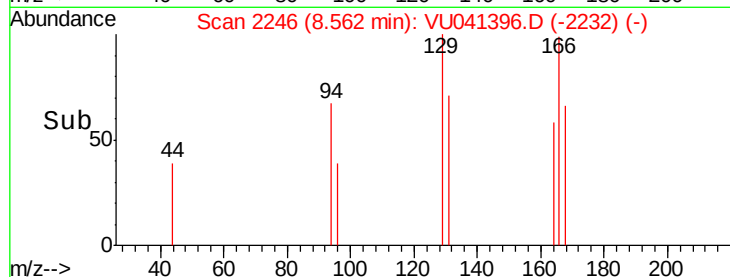
150

100

50

0

Time--> 8.52 8.54 8.56 8.58



#59

1,2,3-Trichloropropane

Concen: 1.192 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041396.D

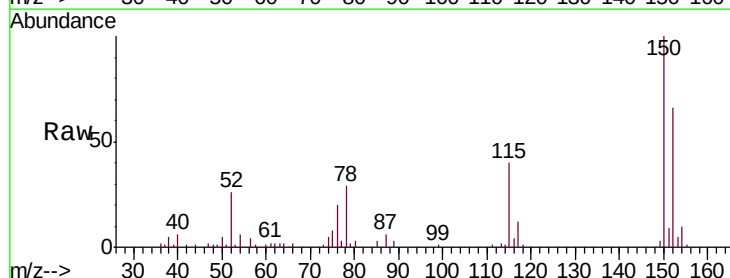
Acq: 23 Nov 2020 18:39

Tgt Ion: 75 Resp: 3682

Ion Ratio Lower Upper

75 100

77 40.9 25.1 37.7#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

2500

2000

1500

1000

500

0

Time--> 11.75 11.80 11.85

