

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101620\
 Data File : VU040751.D
 Acq On : 16 Oct 2020 16:42
 Operator : SY/MD
 Sample : L4419-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ5

Quant Time: Oct 16 23:42:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 16 23:38:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	110514	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	116354	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	45662	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	37233	4.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.40%
7) Chloroethane-d5	1.92	69	36499	5.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.40%
11) 1,1-Dichloroethene-d2	2.58	63	77353	4.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.40%
20) 2-Butanone-d5	4.66	46	158466	54.08	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.16%
24) Chloroform-d	5.08	84	84721	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.40%
26) 1,2-Dichloroethane-d4	5.72	65	52889	5.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.00%
32) Benzene-d6	5.75	84	150846	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
36) 1,2-Dichloropropane-d6	6.70	67	54660	5.25	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.00%
41) Toluene-d8	7.91	98	118938	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
43) trans-1,3-Dichloropropene-	8.19	79	18169	4.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.40%
46) 2-Hexanone-d5	8.64	63	103395	45.46	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.92%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	45690	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	47974	5.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.40%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	690	0.074 ug/L #	57
5) Vinyl chloride	1.61	62	2286	0.232 ug/L #	23
8) Chloroethane	1.93	64	468	0.075 ug/L #	41
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	524	0.057 ug/L #	20
12) 1,1-Dichloroethene	2.59	96	29663	3.762 ug/L	92
18) trans-1,2-Dichloroethene	3.37	96	1168	0.142 ug/L	94
19) 1,1-Dichloroethane	3.89	63	4075	0.239 ug/L	89
22) cis-1,2-Dichloroethene	4.69	96	152062	17.083 ug/L	98
25) Chloroform	5.11	83	7525	0.432 ug/L	94
29) 1,1,1-Trichloroethane	5.33	97	2174	0.139 ug/L	93
31) Carbon tetrachloride	5.54	117	3472	0.259 ug/L	94
34) Trichloroethene	6.56	95	207385	21.403 ug/L	96
35) Methylcyclohexane	6.71	83	12418	0.904 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	6095	0.585 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1275	0.090 ug/L #	56
44) trans-1,3-Dichloropropene	8.19	75	890	0.068 ug/L #	56
47) Tetrachloroethene	8.56	164	60243	8.714 ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 16 23:38:52 2020
Response via : Initial Calibration

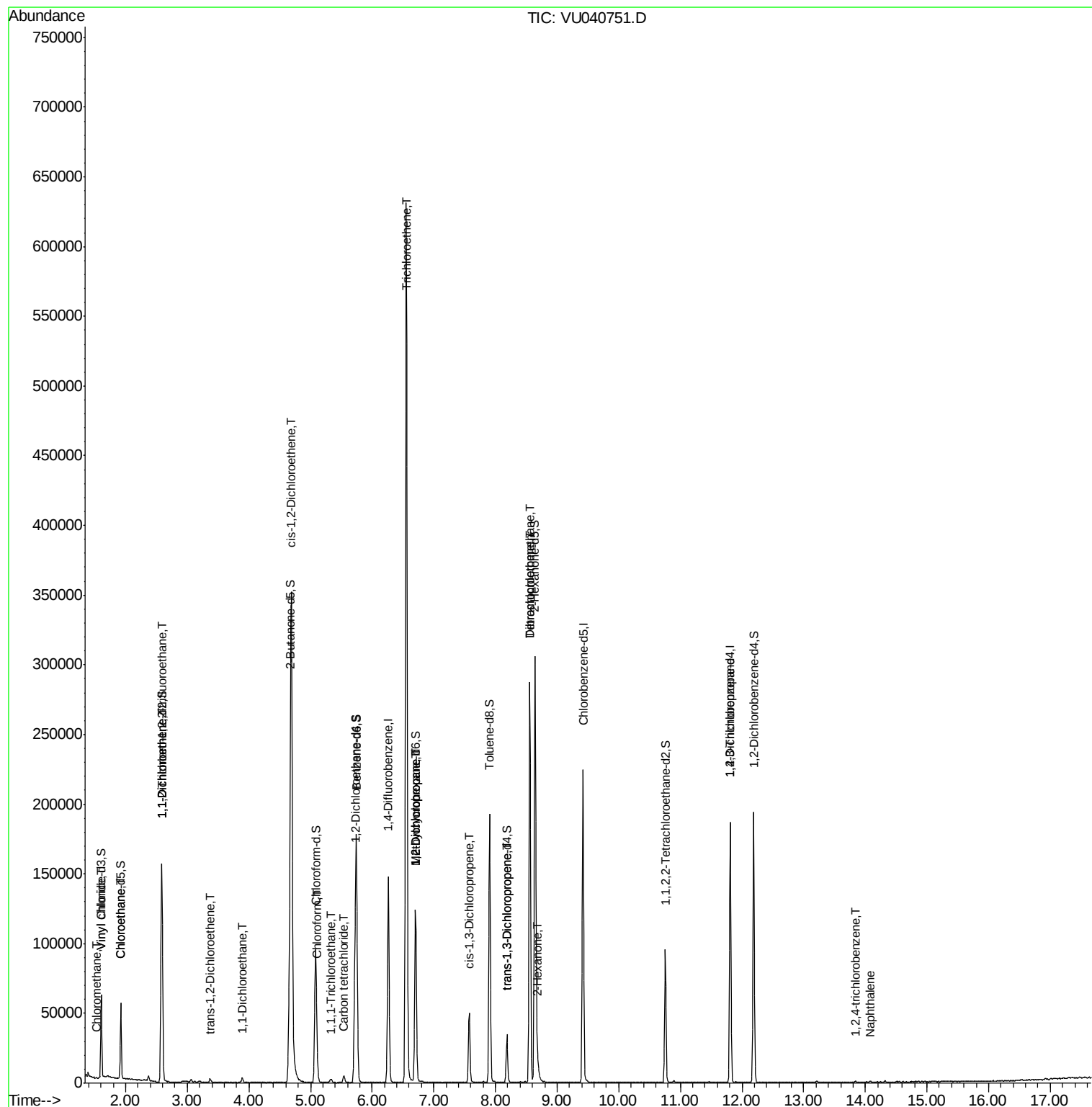
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.69	43	2934	0.475	ug/L #	86
49) Dibromochloromethane	8.56	129	57336	6.388	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	6045	0.790	ug/L	91
68) 1,2,4-trichlorobenzene	13.84	180	367	0.045	ug/L #	58
69) Naphthalene	14.08	128	938	0.070	ug/L #	69

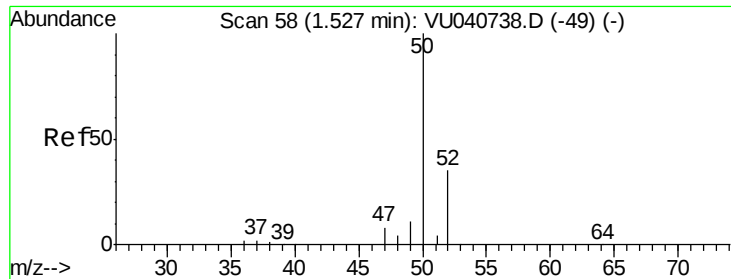
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.074 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040751.D

Acq: 16 Oct 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

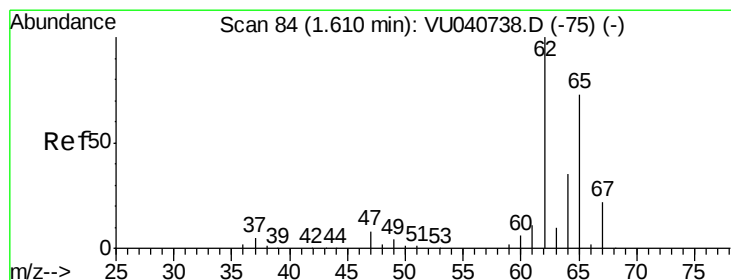
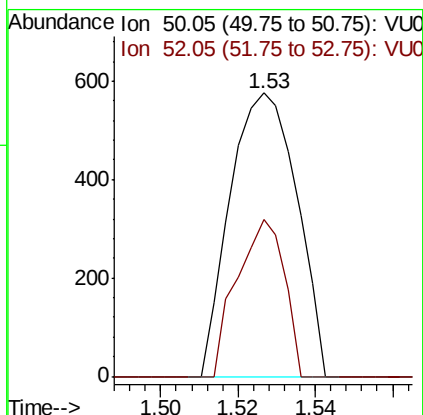
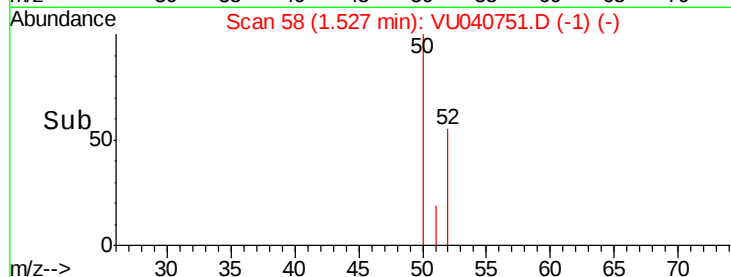
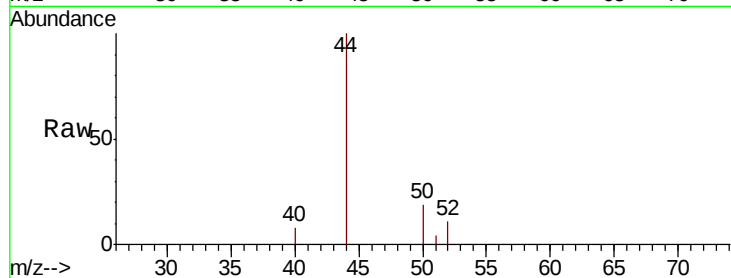
C0AJ5

Tot Ion: 50 Resp: 690

Ion Ratio Lower Upper

50 100

52 55.2 21.9 40.7#



#5

Vinyl chloride

Concen: 0.232 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040751.D

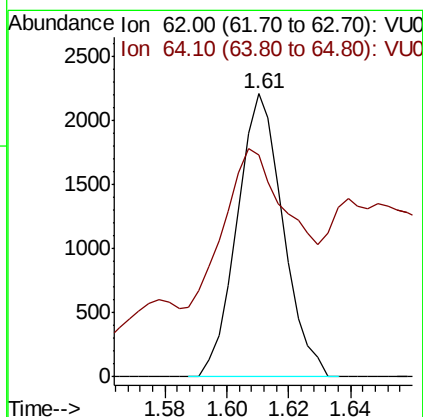
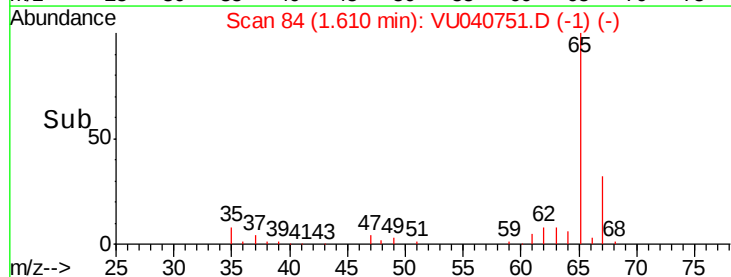
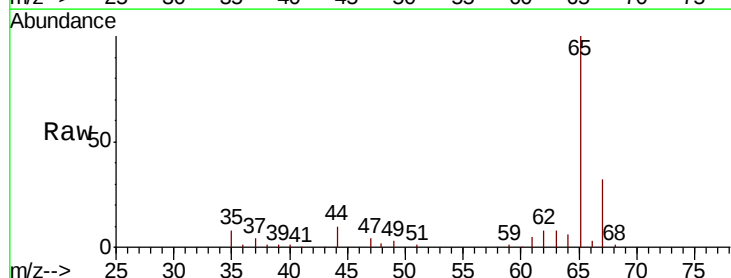
Acq: 16 Oct 2020 16:42

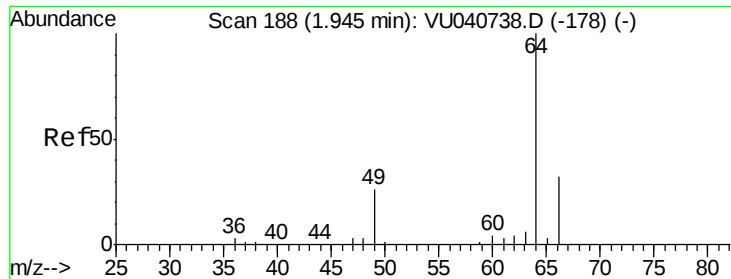
Tgt Ion: 62 Resp: 2286

Ion Ratio Lower Upper

62 100

64 78.2 23.7 44.1#

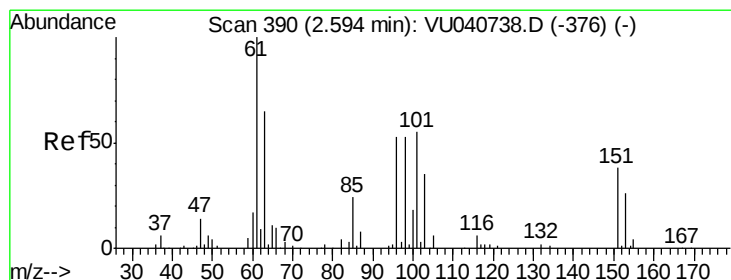
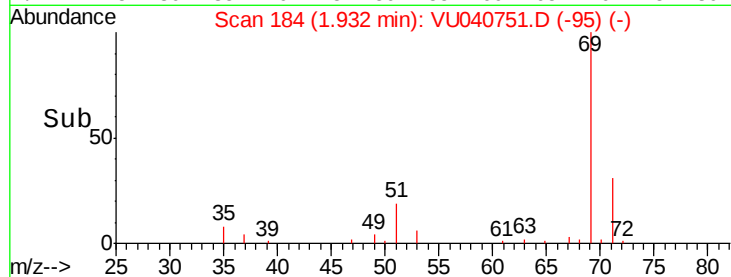
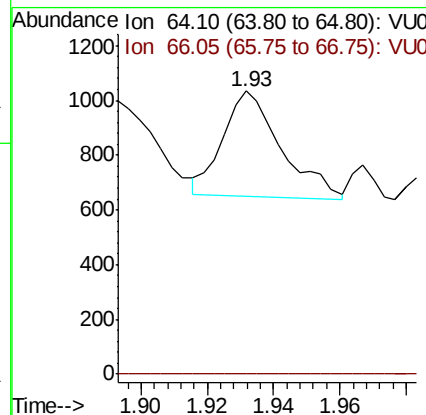
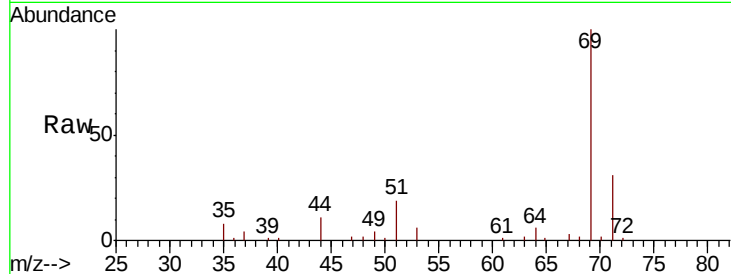




#8
Chloroethane
Concen: 0.075 ug/L
RT: 1.93 min Scan# 184
Delta R.T. -0.01 min
Lab File: VU040751.D
Acq: 16 Oct 2020 16:42

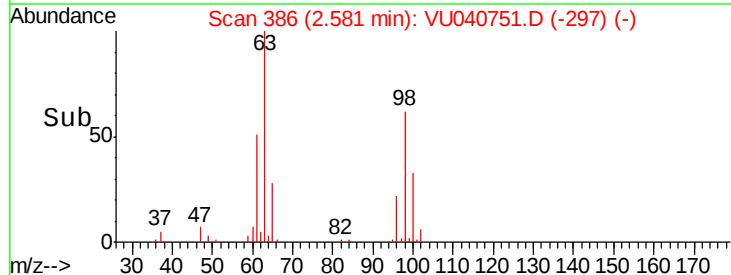
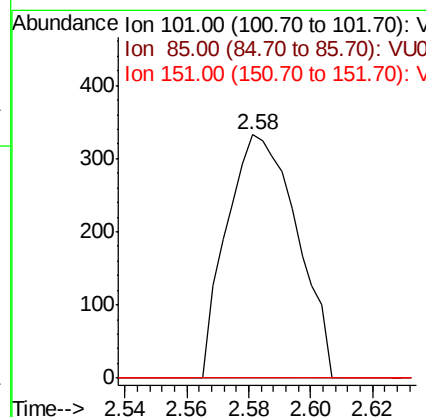
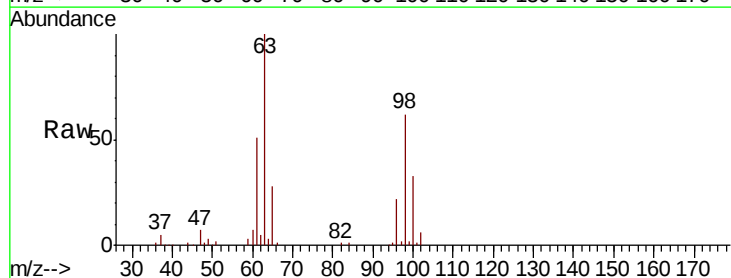
Instrument :
MSVOA_U
ClientSampleId :
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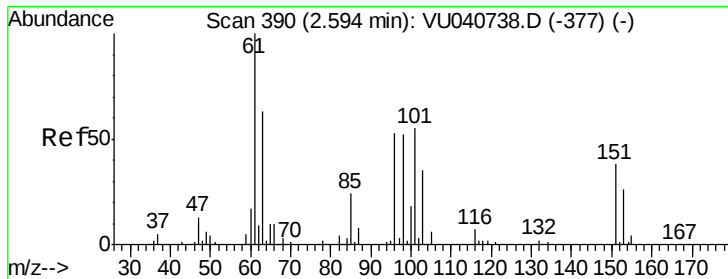
Tot Ion: 64 Resp: 468
Ion Ratio Lower Upper
64 100
66 0.0 23.3 43.3#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.057 ug/L
RT: 2.58 min Scan# 386
Delta R.T. -0.01 min
Lab File: VU040751.D
Acq: 16 Oct 2020 16:42

Tgt Ion:101 Resp: 524
Ion Ratio Lower Upper
101 100
85 0.0 36.7 55.1#
151 0.0 58.0 87.0#





#12

1,1-Dichloroethene

Concen: 3.762 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040751.D

Acq: 16 Oct 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

C0AJ5

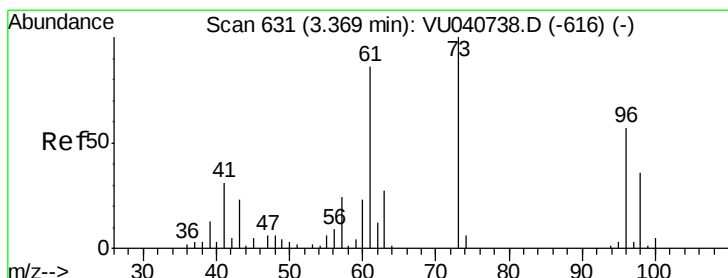
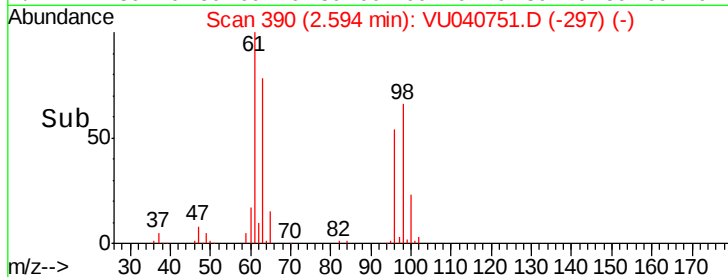
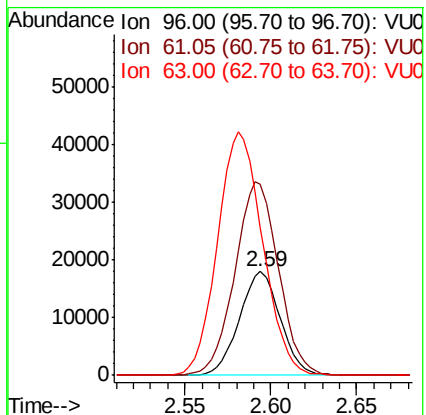
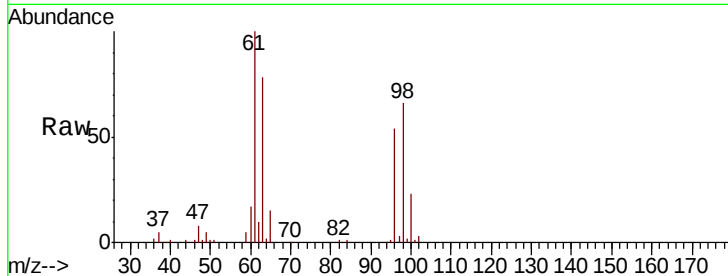
Tot Ion: 96 Resp: 29663

Ion Ratio Lower Upper

96 100

61 184.1 128.8 239.2

63 143.0 84.6 157.2



#18

trans-1,2-Dichloroethene

Concen: 0.142 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU040751.D

Acq: 16 Oct 2020 16:42

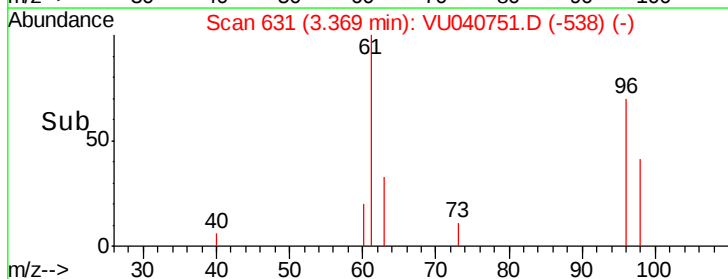
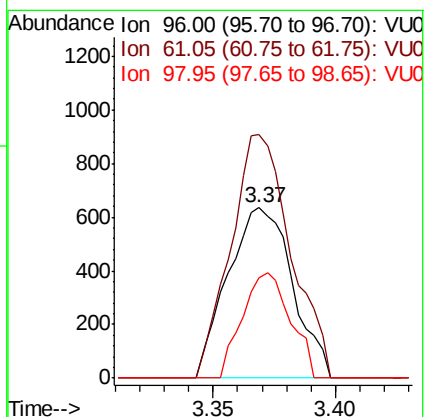
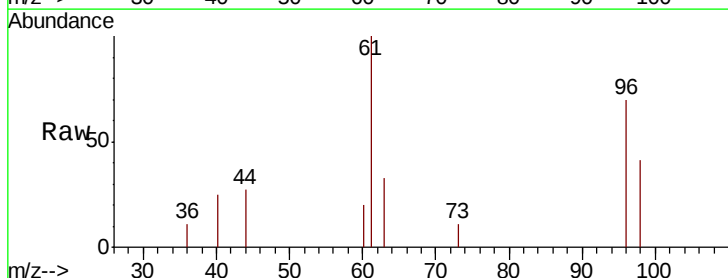
Tgt Ion: 96 Resp: 1168

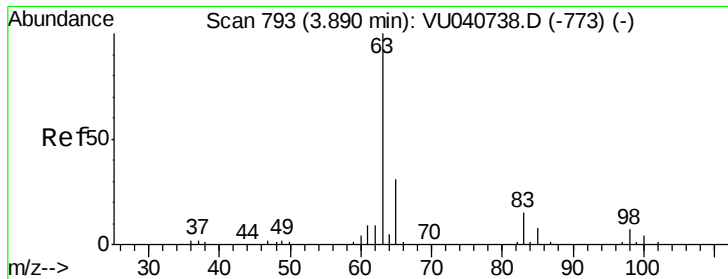
Ion Ratio Lower Upper

96 100

61 142.8 105.9 196.7

98 59.0 43.8 81.3

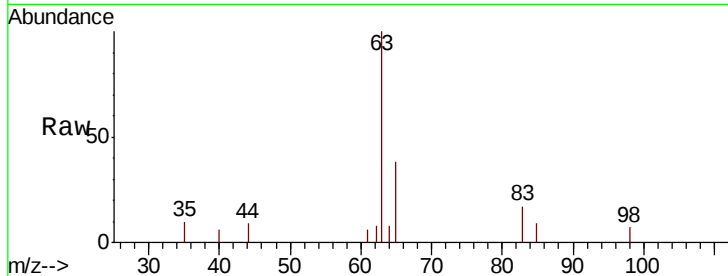




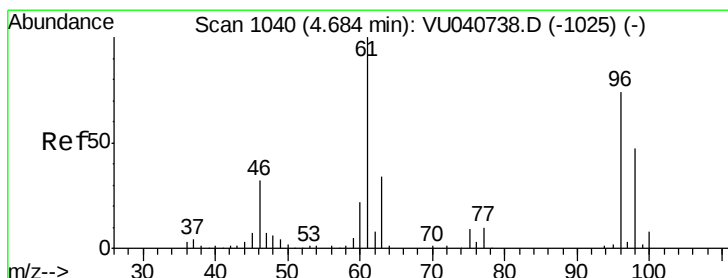
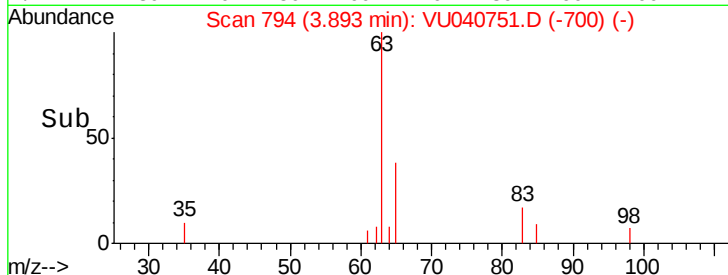
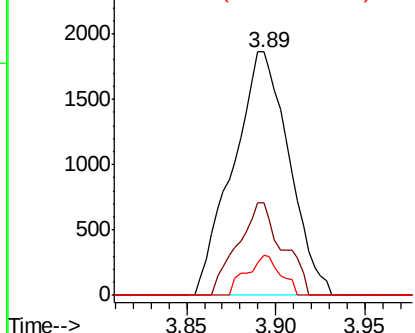
#19
 1,1-Dichloroethane
 Concen: 0.239 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VU040751.D
 Acq: 16 Oct 2020 16:42

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ5

Tot Ion: 63 Resp: 4075
 Ion Ratio Lower Upper
 63 100
 65 38.0 21.9 40.7
 83 16.6 9.6 17.8

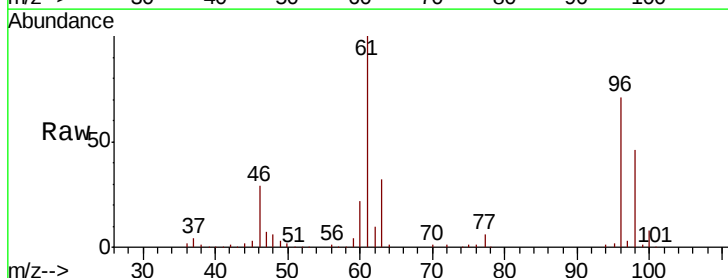


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

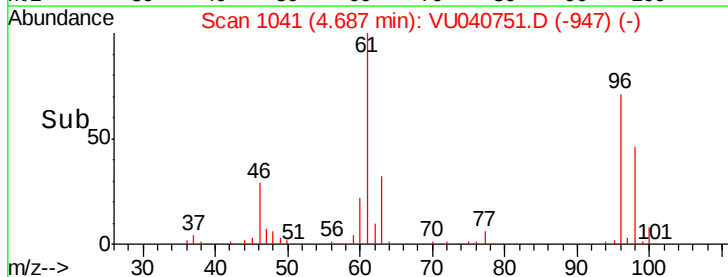
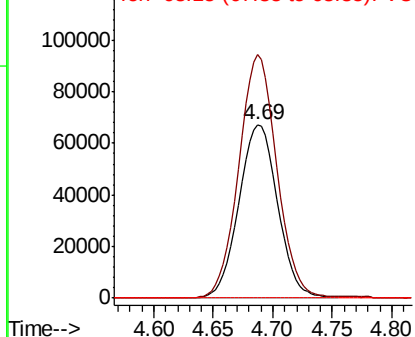


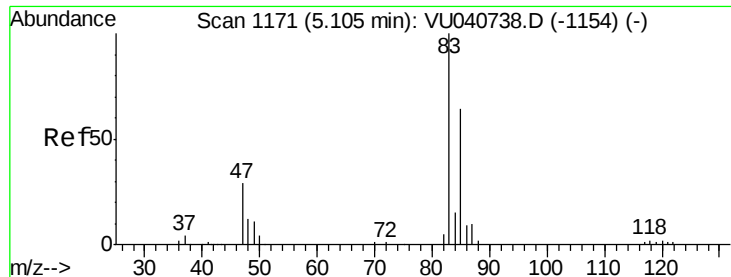
#22
 cis-1,2-Dichloroethene
 Concen: 17.083 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040751.D
 Acq: 16 Oct 2020 16:42

Tgt Ion: 96 Resp: 152062
 Ion Ratio Lower Upper
 96 100
 61 140.5 99.8 185.4
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

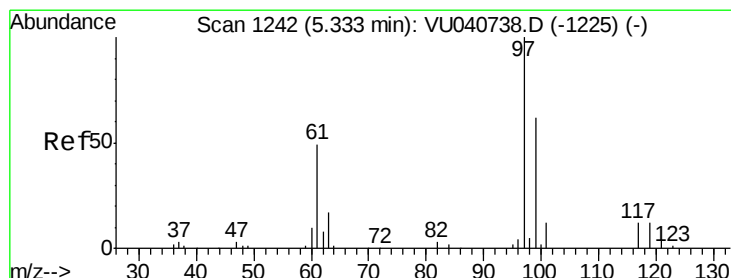
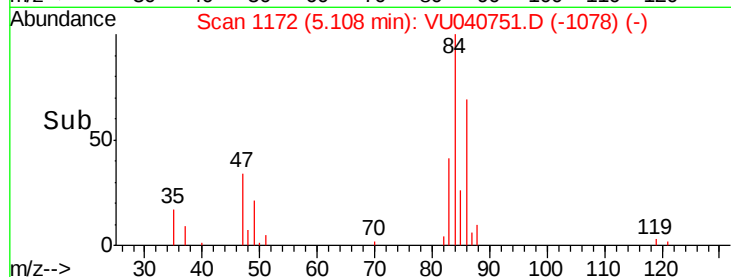
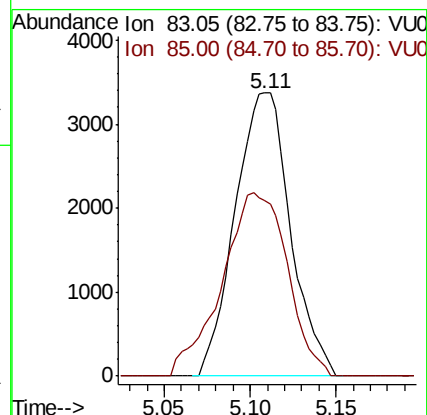
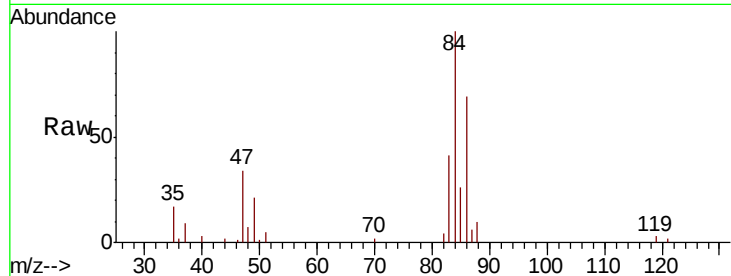




#25
Chloroform
Concen: 0.432 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040751.D
Acq: 16 Oct 2020 16:42

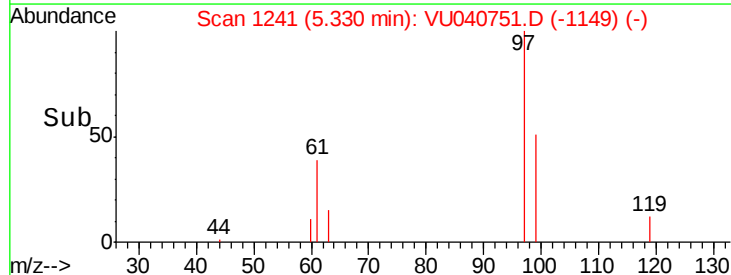
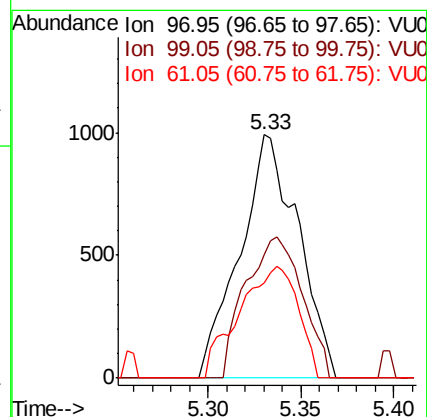
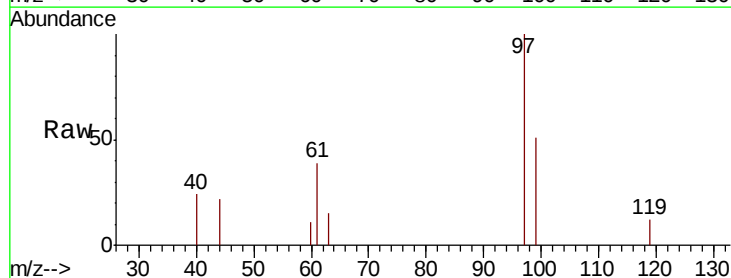
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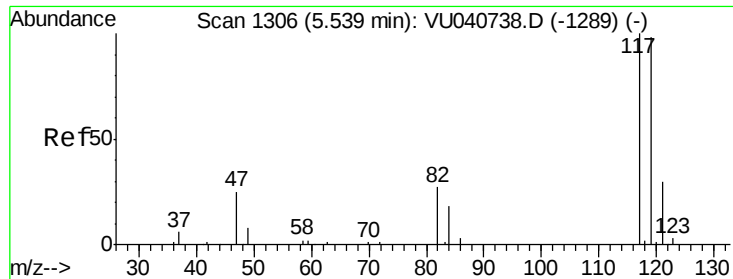
Tot Ion: 83 Resp: 7525
Ion Ratio Lower Upper
83 100
85 62.1 46.5 86.5



#29
1,1,1-Trichloroethane
Concen: 0.139 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VU040751.D
Acq: 16 Oct 2020 16:42

Tgt Ion: 97 Resp: 2174
Ion Ratio Lower Upper
97 100
99 56.6 51.3 76.9
61 46.5 39.4 59.2

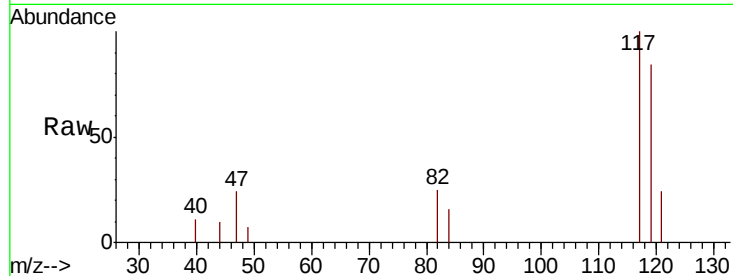




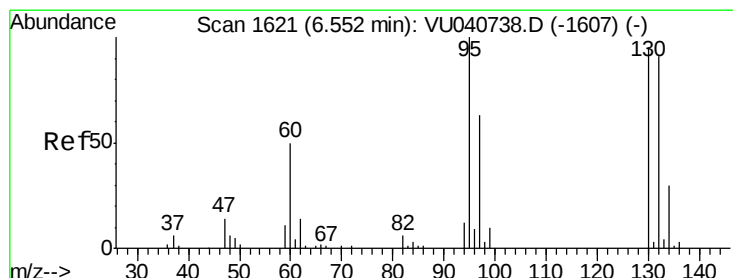
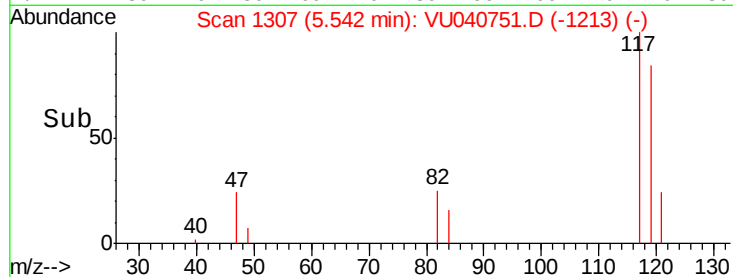
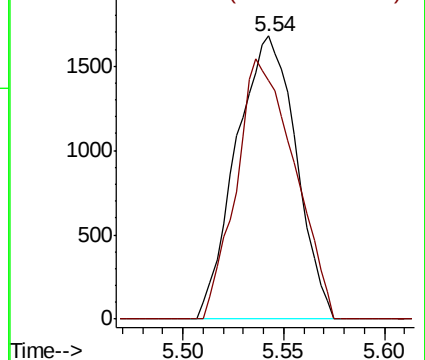
#31
Carbon tetrachloride
Concen: 0.259 ug/L
RT: 5.54 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VU040751.D
Acq: 16 Oct 2020 16:42

Instrument :
MSVOA_U
ClientSampleId :
C0AJ5

Tot Ion:117 Resp: 3472
Ion Ratio Lower Upper
117 100
119 89.4 76.2 114.2

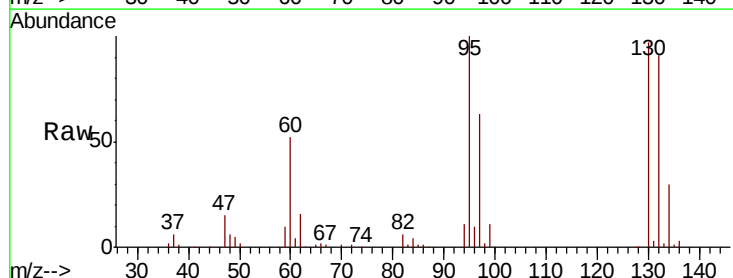


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

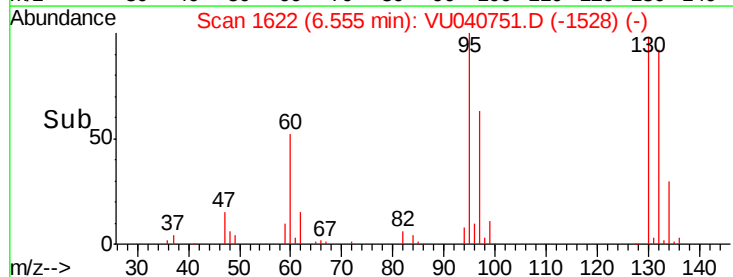
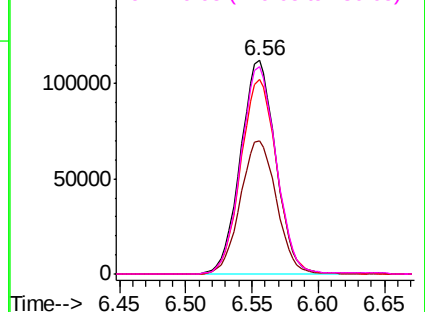


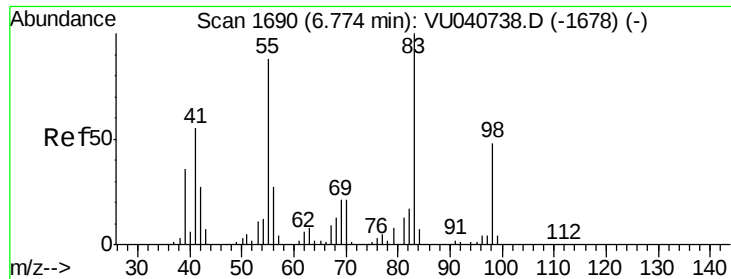
#34
Trichloroethene
Concen: 21.403 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU040751.D
Acq: 16 Oct 2020 16:42

Tgt Ion: 95 Resp: 207385
Ion Ratio Lower Upper
95 100
97 62.6 45.5 84.5
132 91.3 67.5 125.4
130 96.9 69.9 129.9



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: 0.904 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.07 min

Lab File: VU040751.D

Acq: 16 Oct 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

C0AJ5

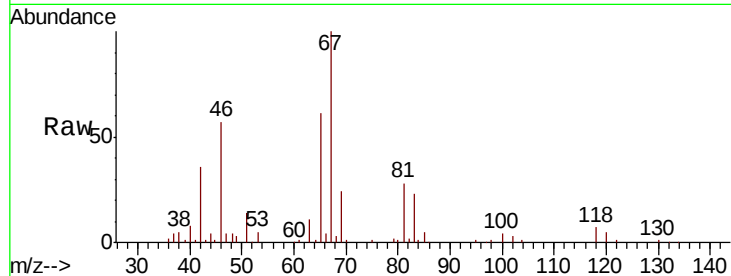
Tot Ion: 83 Resp: 12418

Ion Ratio Lower Upper

83 100

55 0.0 70.7 106.1#

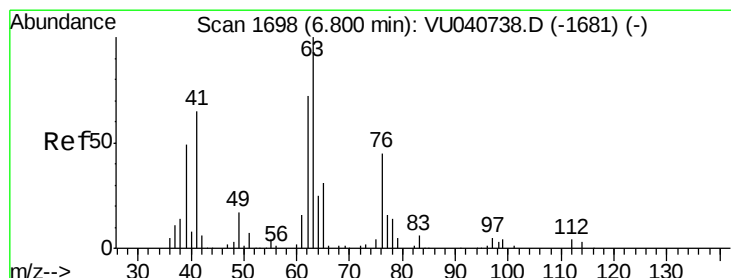
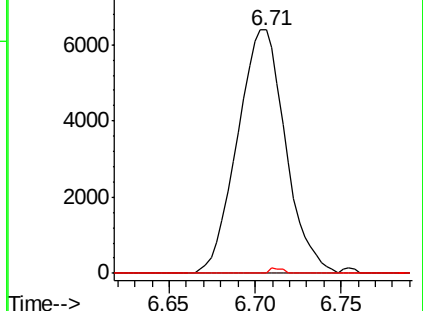
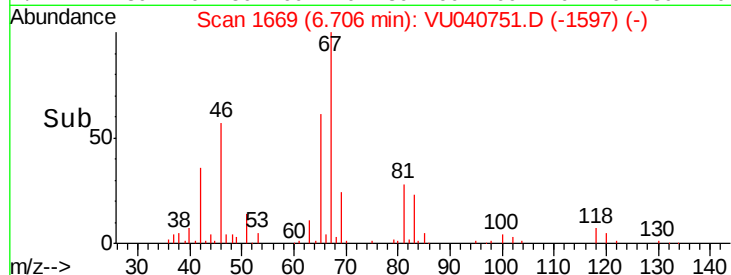
98 0.0 38.4 57.6#



Abundance Ion 83.15 (82.85 to 83.85): VU040751.D (-1669) (-)

Ion 55.10 (54.80 to 55.80): VU040751.D (-1669) (-)

Ion 98.15 (97.85 to 98.85): VU040751.D (-1669) (-)



#37

1,2-Dichloropropane

Concen: 0.585 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU040751.D

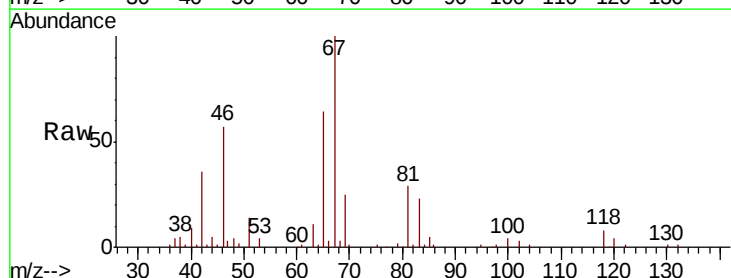
Acq: 16 Oct 2020 16:42

Tgt Ion: 63 Resp: 6095

Ion Ratio Lower Upper

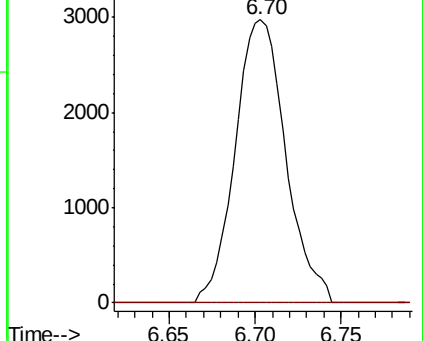
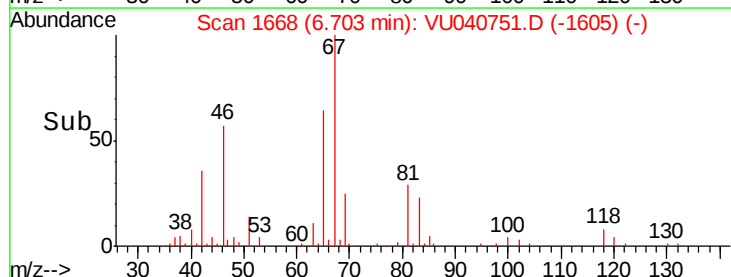
63 100

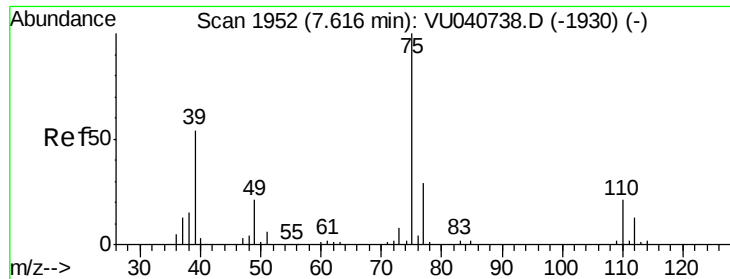
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU040751.D (-1668) (-)

Ion 112.10 (111.80 to 112.80): VU040751.D (-1668) (-)

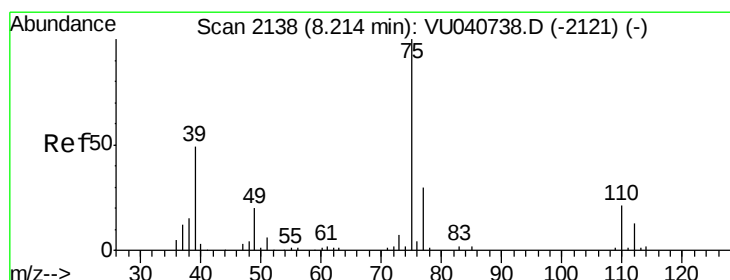
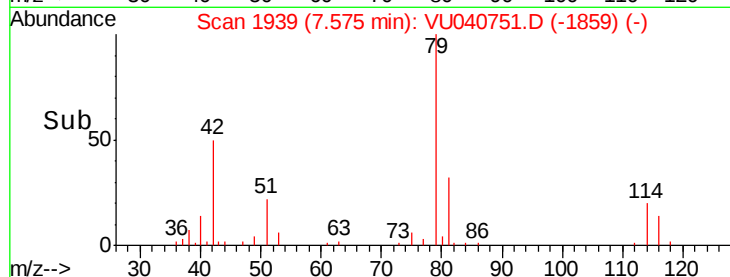
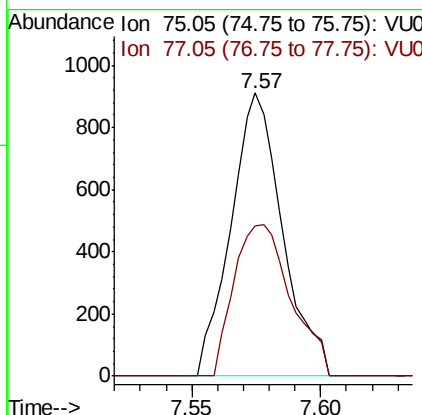
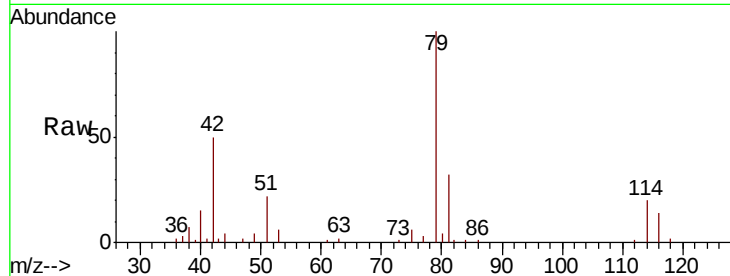




#39
 cis-1,3-Dichloropropene
 Concen: 0.090 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040751.D
 Acq: 16 Oct 2020 16:42

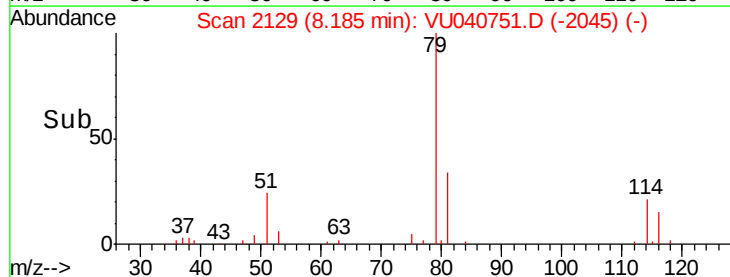
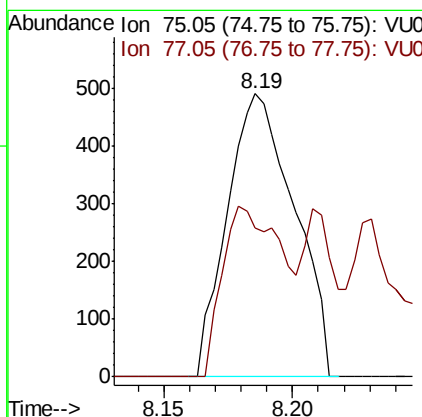
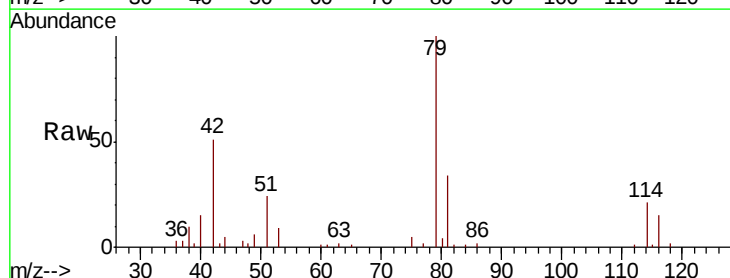
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ5

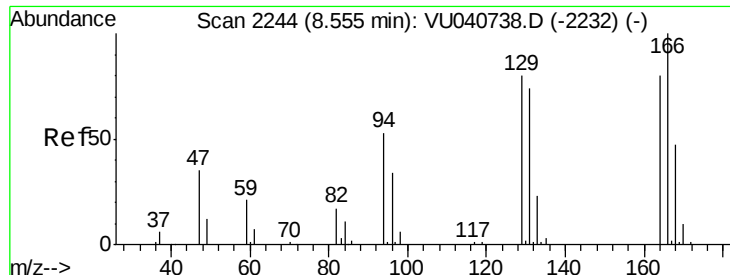
Tot Ion: 75 Resp: 1275
 Ion Ratio Lower Upper
 75 100
 77 52.9 20.5 38.1#



#44
 trans-1,3-Dichloropropene
 Concen: 0.068 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU040751.D
 Acq: 16 Oct 2020 16:42

Tgt Ion: 75 Resp: 890
 Ion Ratio Lower Upper
 75 100
 77 52.7 20.4 38.0#





#47

Tetrachloroethene

Concen: 8.714 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040751.D

Acq: 16 Oct 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

C0AJ5

Tot Ion:164 Resp: 60243

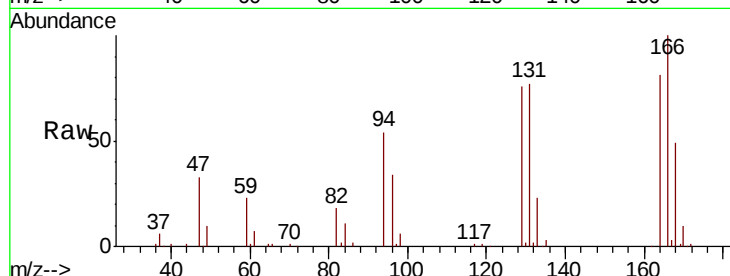
Ion Ratio Lower Upper

164 100

129 93.8 68.8 127.8

131 94.9 66.7 123.9

166 124.0 83.9 155.7

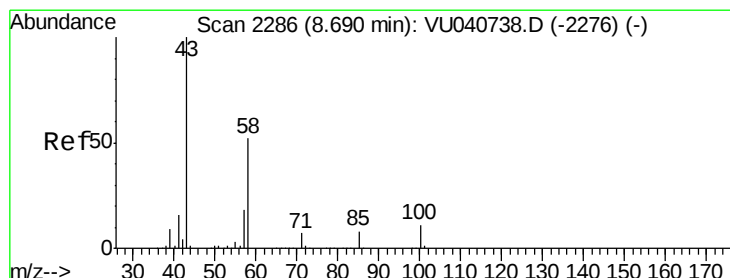
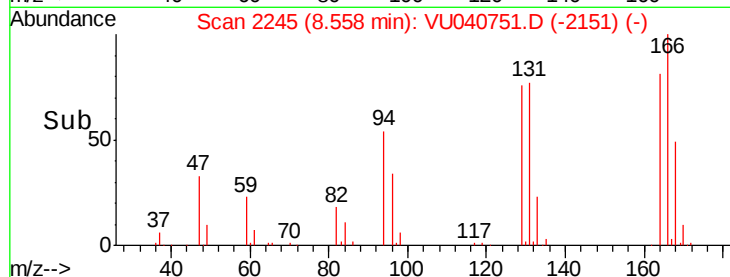
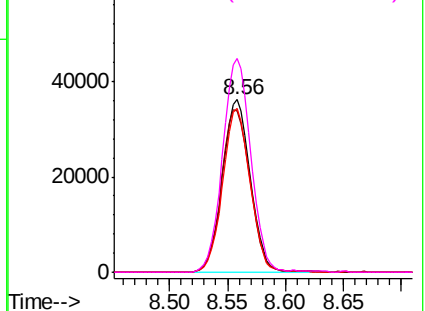


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.475 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VU040751.D

Acq: 16 Oct 2020 16:42

Tgt Ion: 43 Resp: 2934

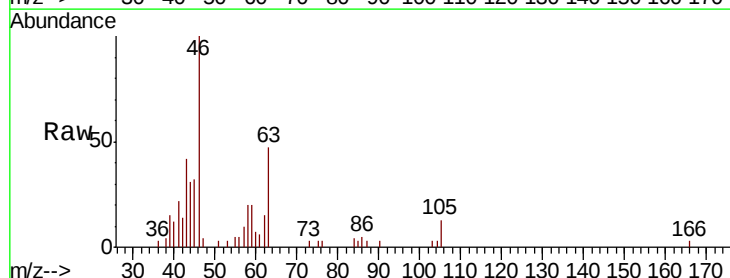
Ion Ratio Lower Upper

43 100

58 49.5 41.0 61.6

57 0.0 14.4 21.6#

100 0.6 8.6 13.0#

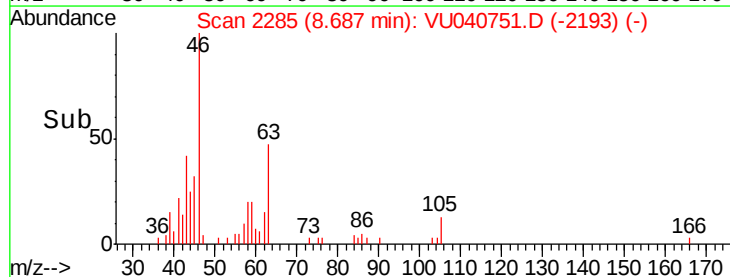
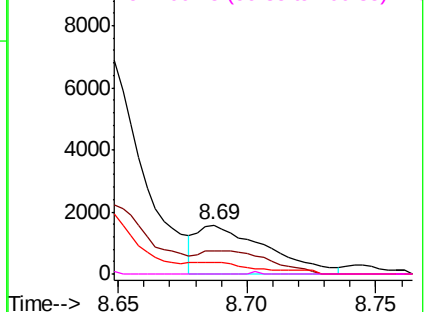


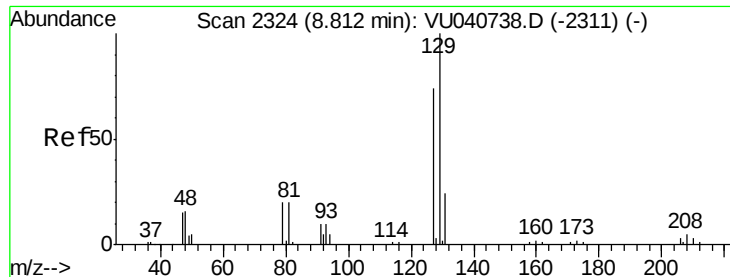
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 6.388 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU040751.D

Acq: 16 Oct 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

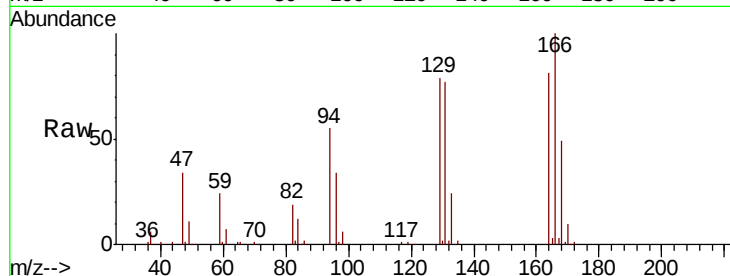
C0AJ5

Tot Ion:129 Resp: 57336

Ion Ratio Lower Upper

129 100

127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

40000

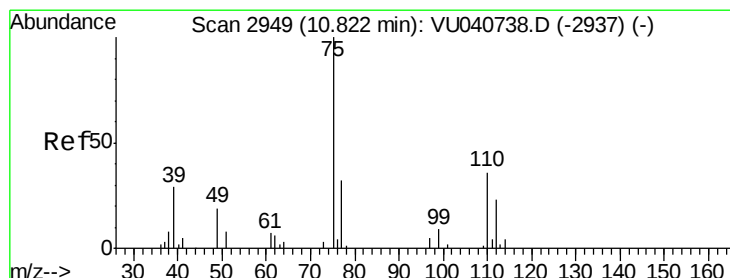
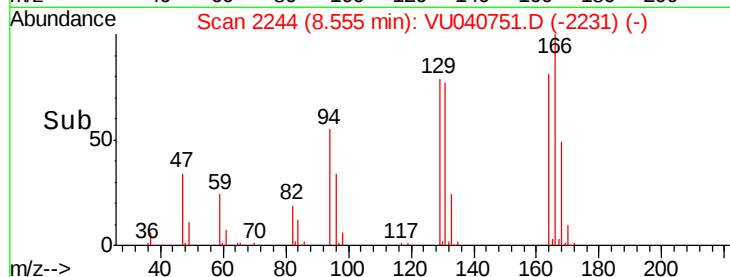
30000

20000

10000

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.790 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040751.D

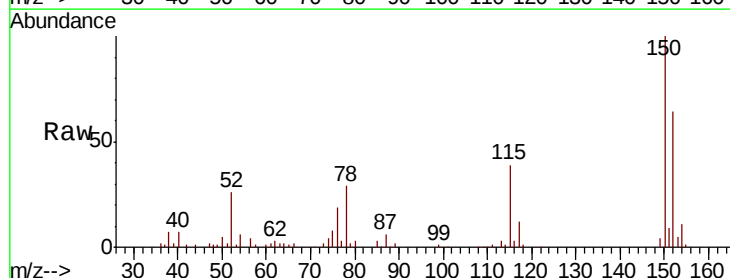
Acq: 16 Oct 2020 16:42

Tgt Ion: 75 Resp: 6045

Ion Ratio Lower Upper

75 100

77 38.1 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

4000

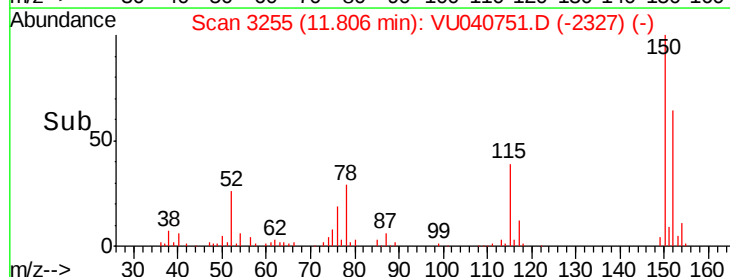
3000

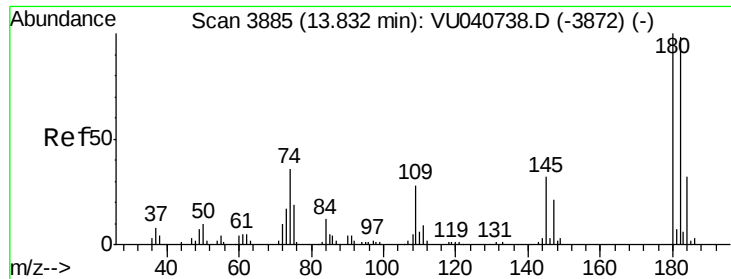
2000

1000

0

Time-->

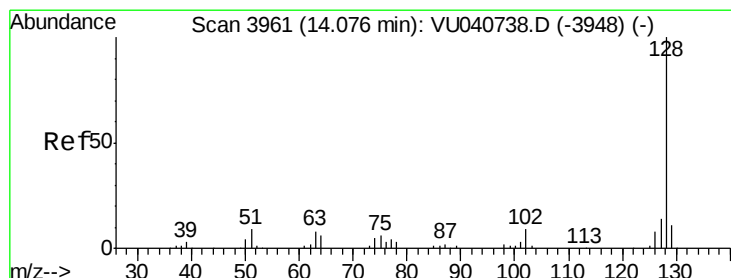
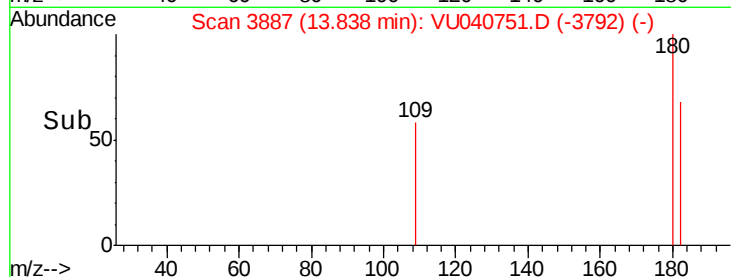
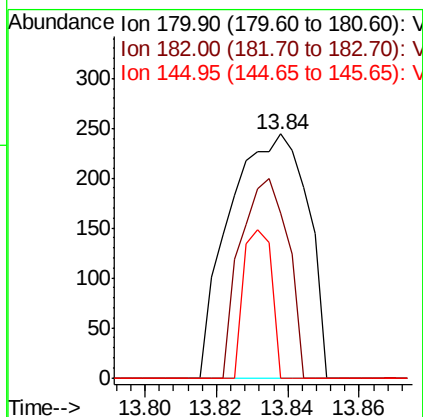
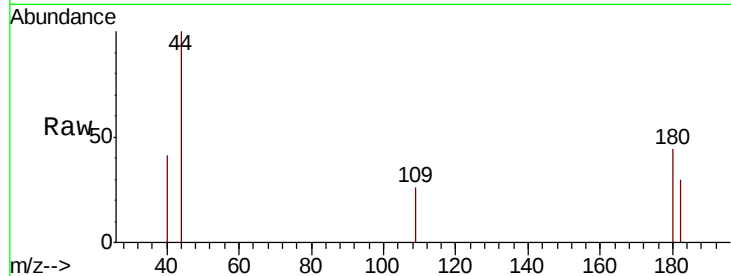




#68
 1,2,4-trichlorobenzene
 Concen: 0.045 ug/L
 RT: 13.84 min Scan# 3887
 Delta R.T. 0.01 min
 Lab File: VU040751.D
 Acq: 16 Oct 2020 16:42

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ5

Tot Ion:180 Resp: 367
 Ion Ratio Lower Upper
 180 100
 182 49.9 78.8 118.2#
 145 21.8 26.1 39.1#



#69
 Naphthalene
 Concen: 0.070 ug/L
 RT: 14.08 min Scan# 3963
 Delta R.T. 0.01 min
 Lab File: VU040751.D
 Acq: 16 Oct 2020 16:42

Tgt Ion:128 Resp: 938
 Ion Ratio Lower Upper
 128 100
 129 0.0 9.0 13.4#
 127 0.0 10.2 15.4#

