

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101620\
 Data File : VU040749.D
 Acq On : 16 Oct 2020 15:10
 Operator : SY/MD
 Sample : L4419-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ2

Quant Time: Oct 16 23:42:00 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	113461	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	119733	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	47808	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	37946	4.04	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.80%
7) Chloroethane-d5	1.93	69	36283	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.20%
11) 1,1-Dichloroethene-d2	2.58	63	69881	3.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.00%
20) 2-Butanone-d5	4.66	46	166561	55.36	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.72%
24) Chloroform-d	5.08	84	86430	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
26) 1,2-Dichloroethane-d4	5.72	65	53573	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
32) Benzene-d6	5.75	84	155329	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
36) 1,2-Dichloropropane-d6	6.70	67	54232	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.20%
41) Toluene-d8	7.91	98	121975	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.40%
43) trans-1,3-Dichloropropene-	8.19	79	18834	4.15	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.00%
46) 2-Hexanone-d5	8.64	63	108826	46.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47775	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	49577	5.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.95	64	259	0.040	ug/L #	41
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	531	0.056	ug/L #	20
12) 1,1-Dichloroethene	2.59	96	11166	1.379	ug/L #	27
14) Carbon disulfide	2.81	76	1600	0.071	ug/L #	80
18) trans-1,2-Dichloroethene	3.37	96	1270	0.150	ug/L	78
19) 1,1-Dichloroethane	3.89	63	2312	0.132	ug/L #	82
22) cis-1,2-Dichloroethene	4.69	96	49454	5.411	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	4602	0.286	ug/L	93
34) Trichloroethene	6.56	95	22573	2.264	ug/L	98
35) Methylcyclohexane	6.70	83	12804	0.906	ug/L #	14
37) 1,2-Dichloropropane	6.71	63	6266	0.585	ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1368	0.093	ug/L #	52
42) Toluene	7.97	91	1821	0.046	ug/L	100
44) trans-1,3-Dichloropropene	8.19	75	930	0.069	ug/L #	76
47) Tetrachloroethene	8.56	164	2410	0.339	ug/L	94
48) 2-Hexanone	8.64	43	18758	2.949	ug/L #	72
49) Dibromochloromethane	8.56	129	2317	0.251	ug/L #	9

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QLast Update : Fri Oct 16 23:38:52 2020
Response via : Initial Calibration

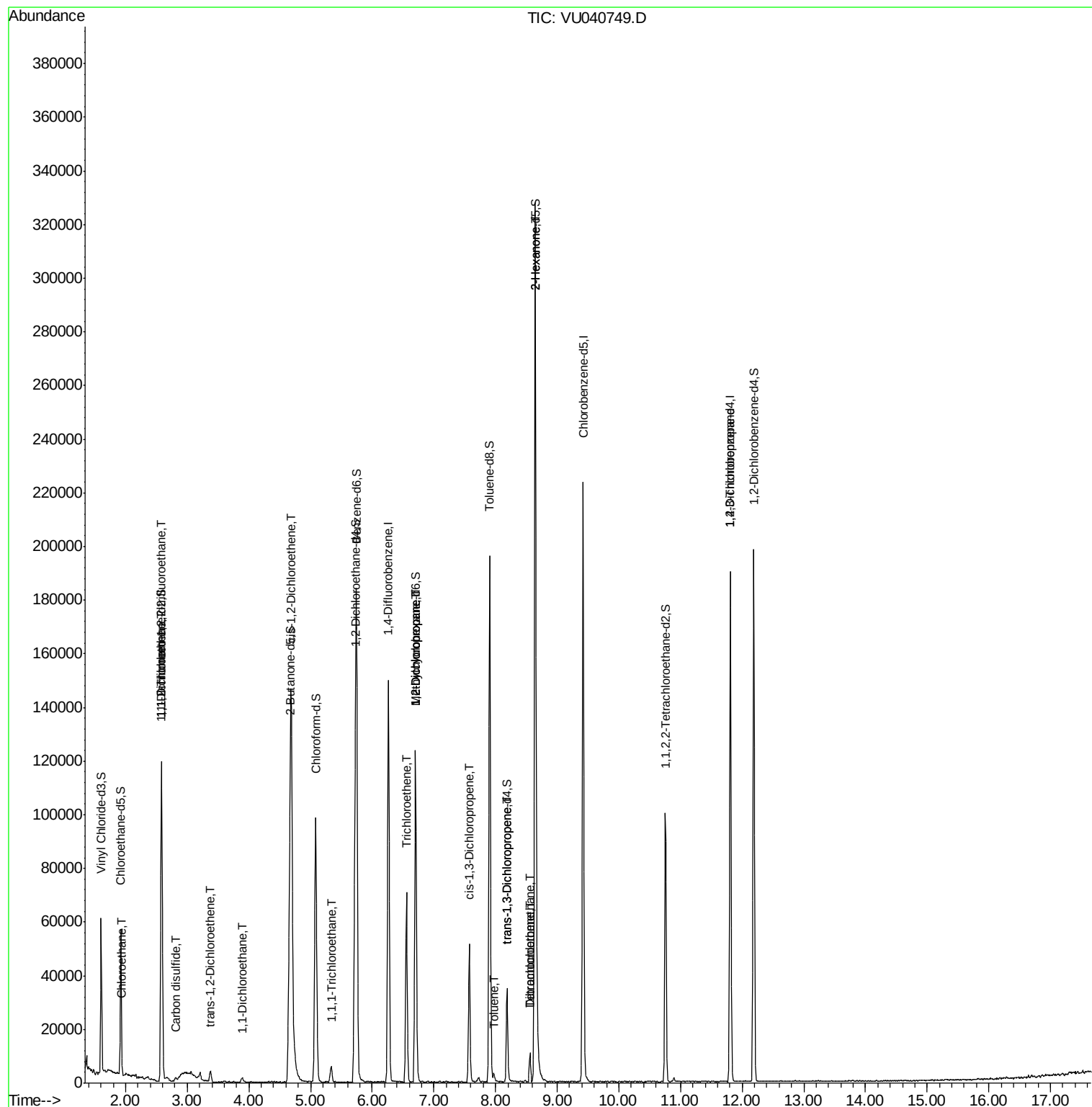
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	6447	0.819	ug/L	97

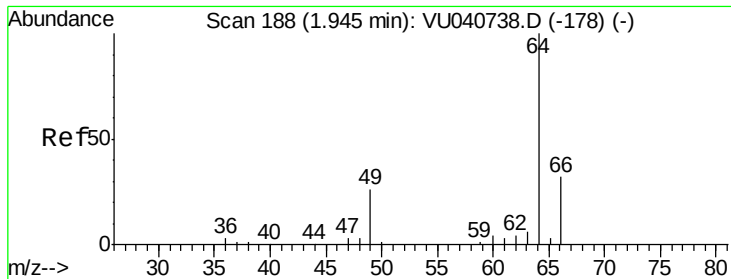
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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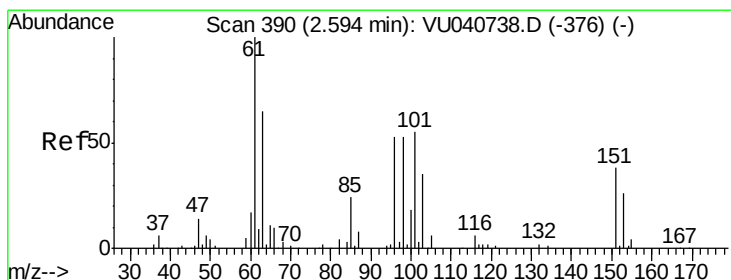
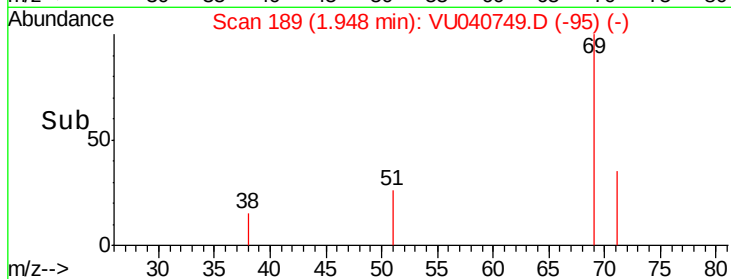
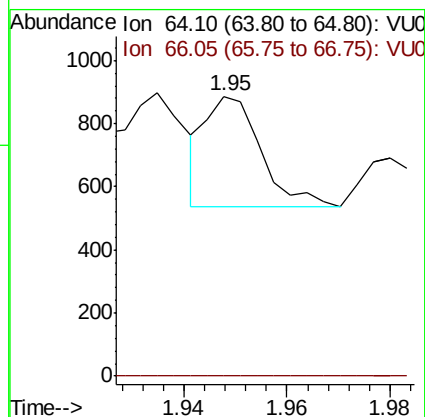
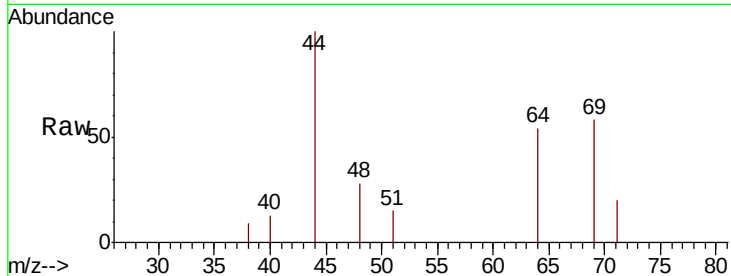




#8
Chloroethane
Concen: 0.040 ug/L
RT: 1.95 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU040749.D
Acq: 16 Oct 2020 15:10

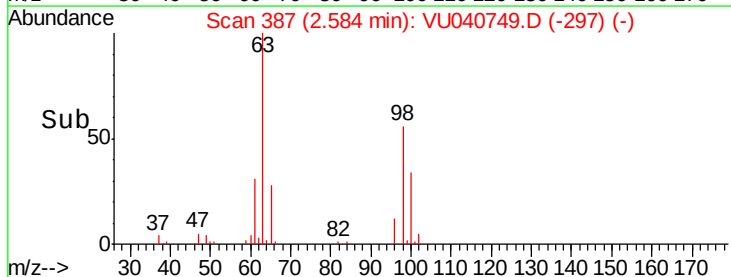
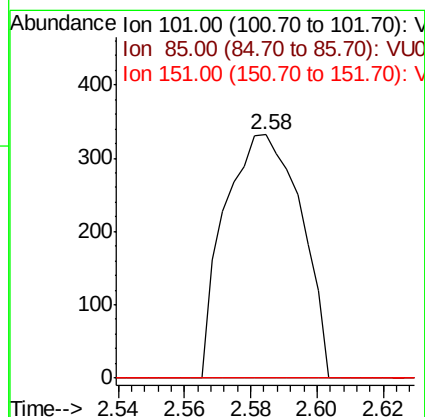
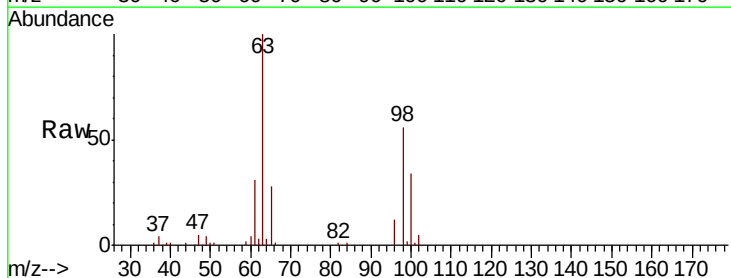
Instrument :
MSVOA_U
ClientSampleId :
C0AJ2

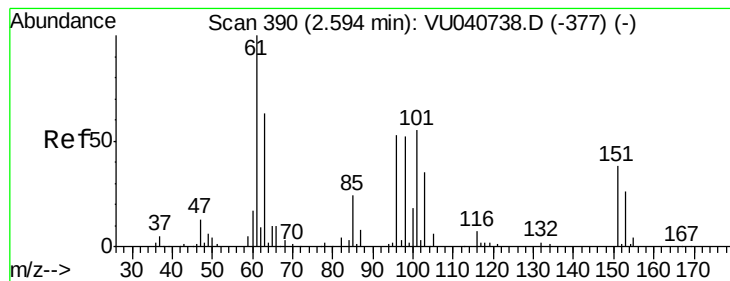
Tot Ion: 64 Resp: 259
Ion Ratio Lower Upper
64 100
66 0.0 23.3 43.3#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.056 ug/L
RT: 2.58 min Scan# 387
Delta R.T. -0.01 min
Lab File: VU040749.D
Acq: 16 Oct 2020 15:10

Tgt Ion: 101 Resp: 531
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: 1.379 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040749.D

Acq: 16 Oct 2020 15:10

Instrument :

MSVOA_U

ClientSampleId :

C0AJ2

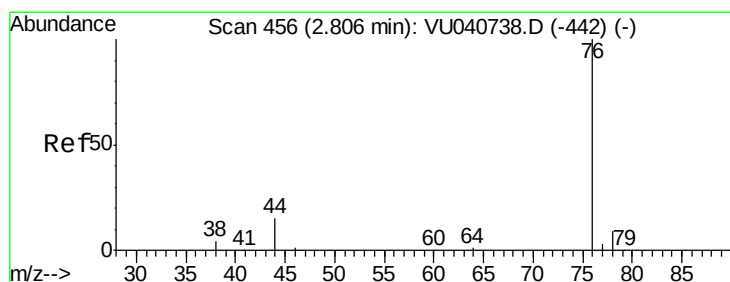
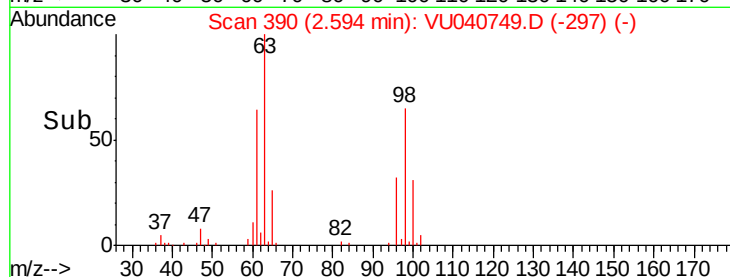
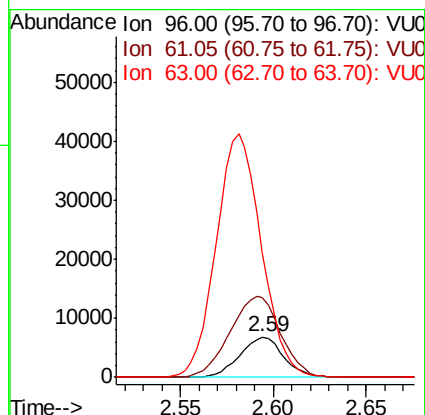
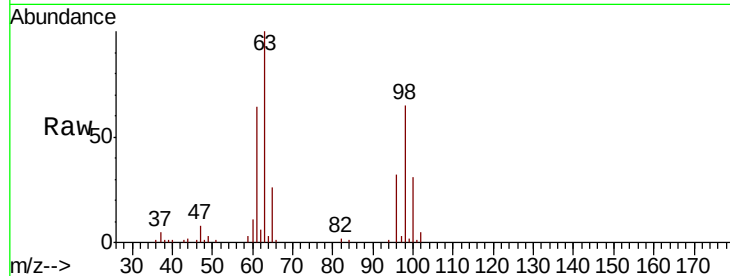
Tot Ion: 96 Resp: 11166

Ion Ratio Lower Upper

96 100

61 197.8 128.8 239.2

63 309.0 84.6 157.2#



#14

Carbon disulfide

Concen: 0.071 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040749.D

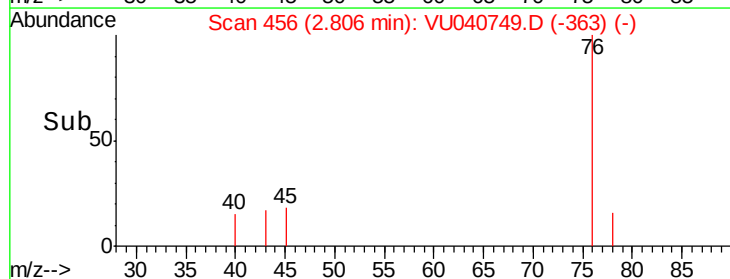
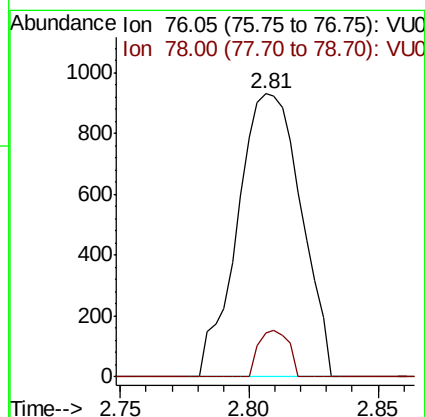
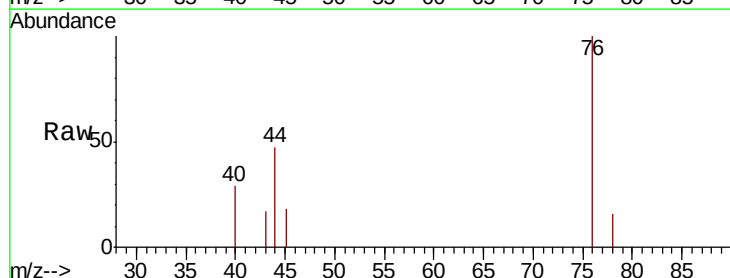
Acq: 16 Oct 2020 15:10

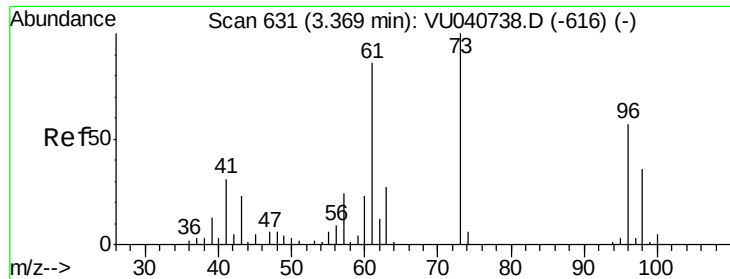
Tgt Ion: 76 Resp: 1600

Ion Ratio Lower Upper

76 100

78 15.6 6.8 10.2#

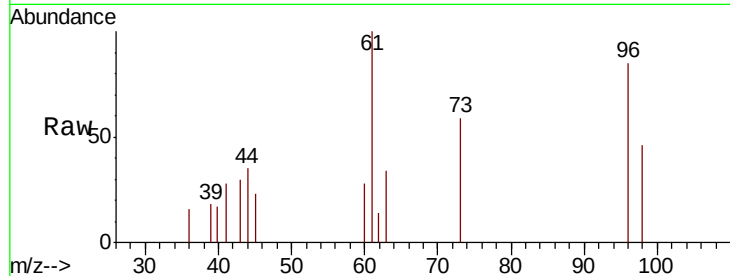




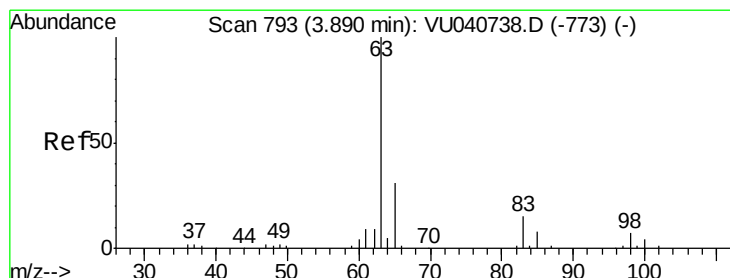
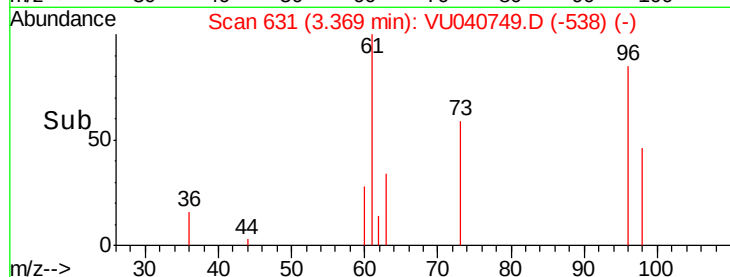
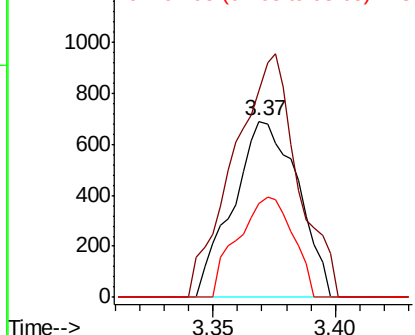
#18
trans-1,2-Dichloroethene
Concen: 0.150 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU040749.D
Acq: 16 Oct 2020 15:10

Instrument :
MSVOA_U
ClientSampleId :
C0AJ2

Tot Ion: 96 Resp: 1270
Ion Ratio Lower Upper
96 100
61 117.1 105.9 196.7
98 53.3 43.8 81.3

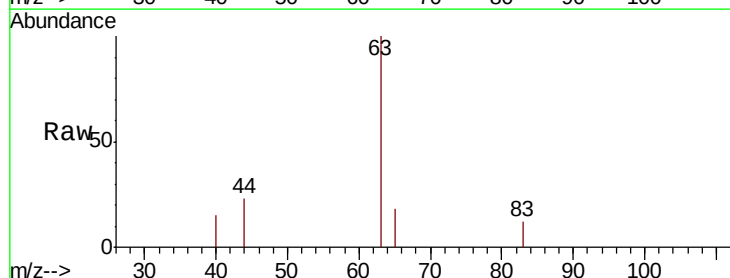


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

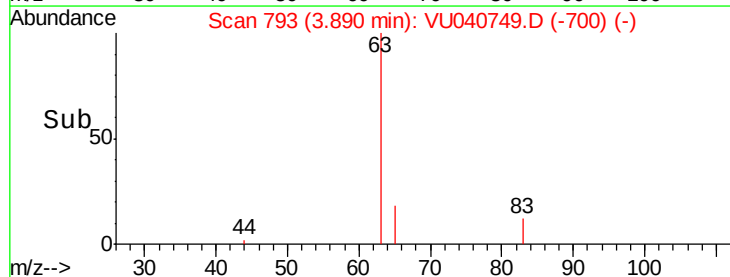
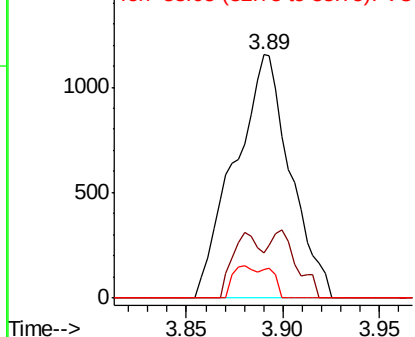


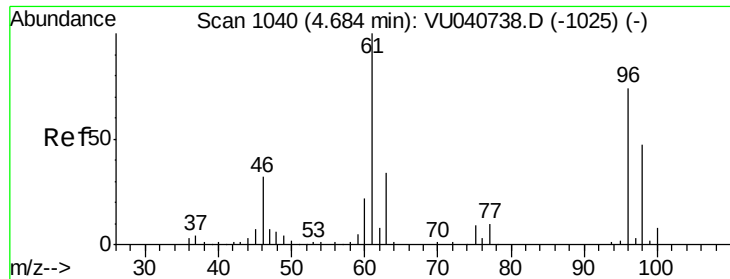
#19
1,1-Dichloroethane
Concen: 0.132 ug/L
RT: 3.89 min Scan# 793
Delta R.T. 0.00 min
Lab File: VU040749.D
Acq: 16 Oct 2020 15:10

Tgt Ion: 63 Resp: 2312
Ion Ratio Lower Upper
63 100
65 18.5 21.9 40.7#
83 11.5 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

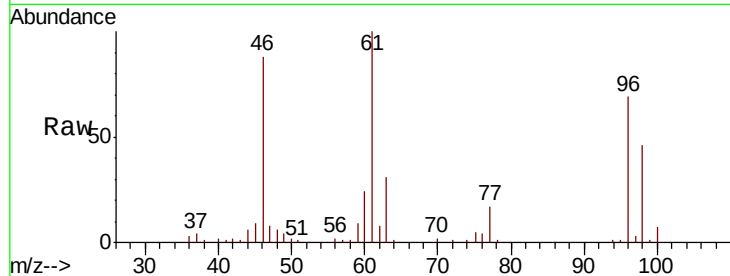




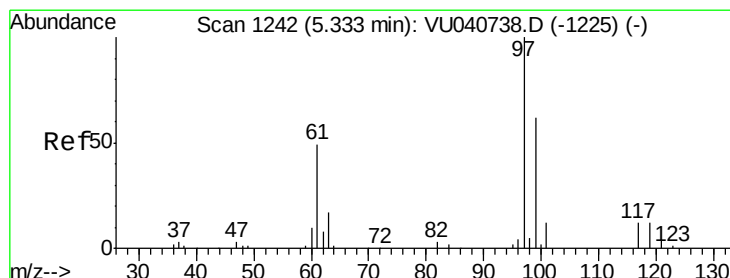
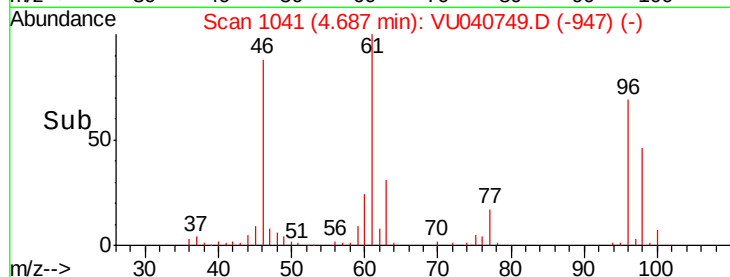
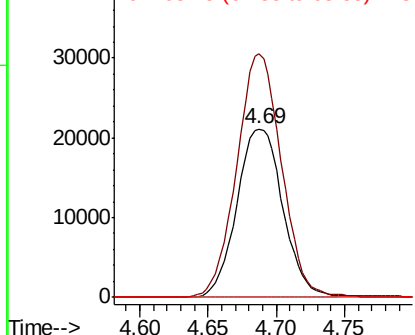
#22
 cis-1,2-Dichloroethene
 Concen: 5.411 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040749.D
 Acq: 16 Oct 2020 15:10

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ2

Tot Ion: 96 Resp: 49454
 Ion Ratio Lower Upper
 96 100
 61 144.3 99.8 185.4
 68 0.0 0.0 0.0

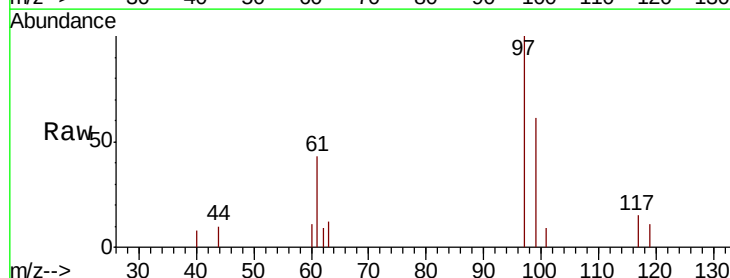


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

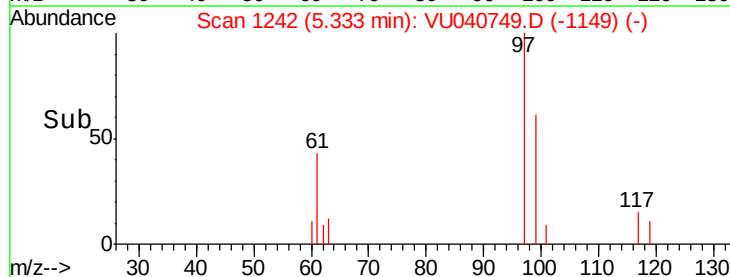
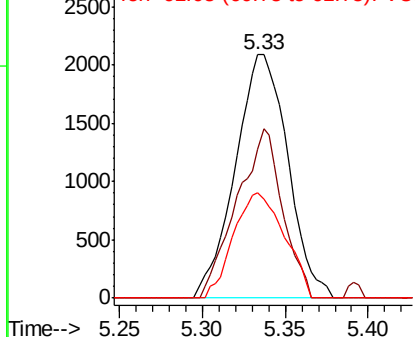


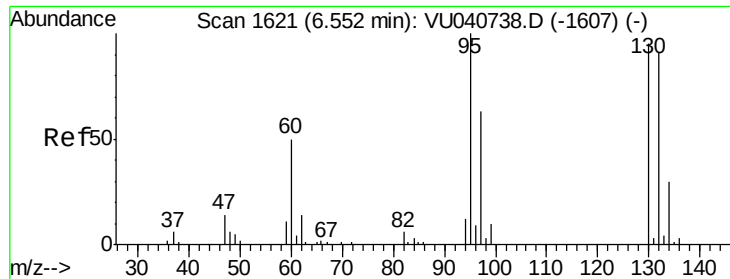
#29
 1,1,1-Trichloroethane
 Concen: 0.286 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040749.D
 Acq: 16 Oct 2020 15:10

Tgt Ion: 97 Resp: 4602
 Ion Ratio Lower Upper
 97 100
 99 60.4 51.3 76.9
 61 41.8 39.4 59.2



Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0





#34

Trichloroethene

Concen: 2.264 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040749.D

Acq: 16 Oct 2020 15:10

Instrument :

MSVOA_U

ClientSampleId :

C0AJ2

Tot Ion: 95 Resp: 22573

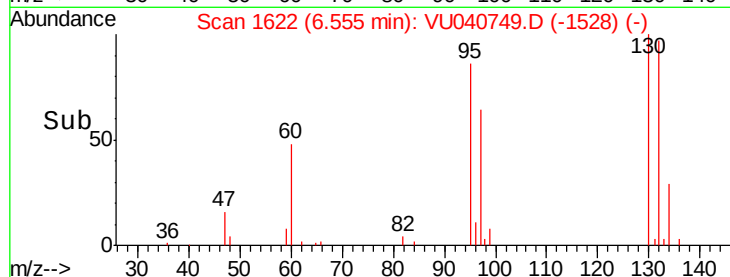
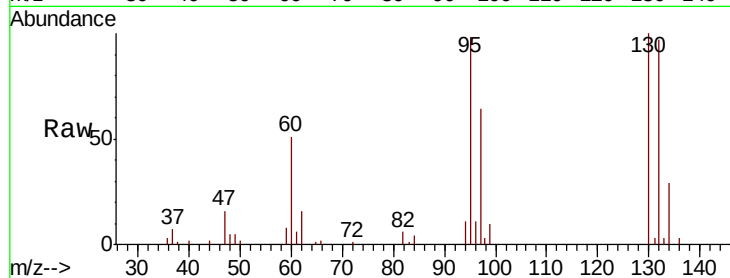
Ion Ratio Lower Upper

95 100

97 65.1 45.5 84.5

132 99.1 67.5 125.4

130 102.3 69.9 129.9

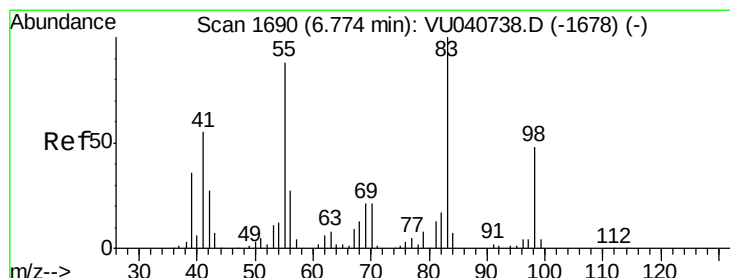
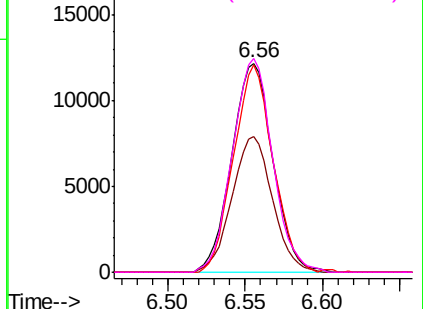


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.906 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

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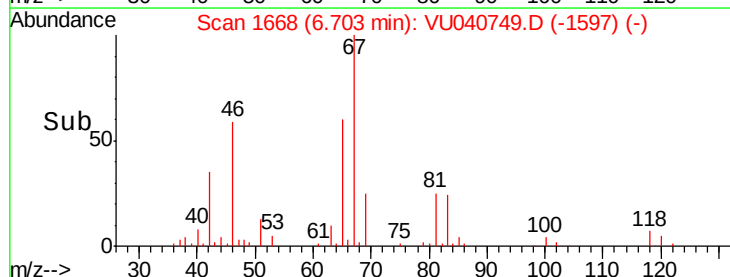
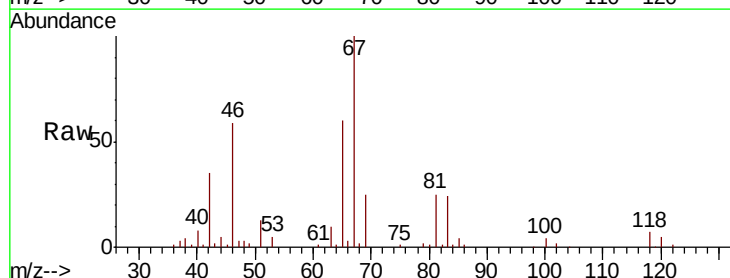
Tgt Ion: 83 Resp: 12804

Ion Ratio Lower Upper

83 100

55 0.2 70.7 106.1#

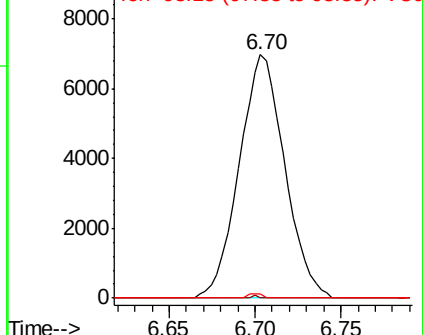
98 0.5 38.4 57.6#

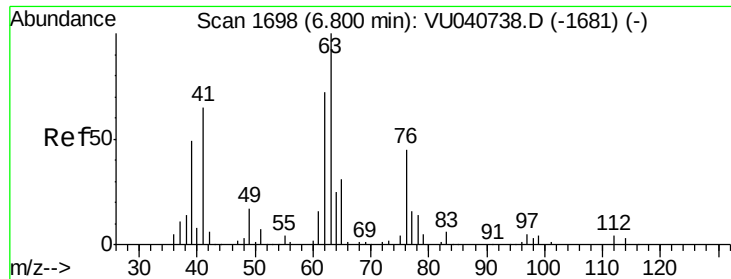


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

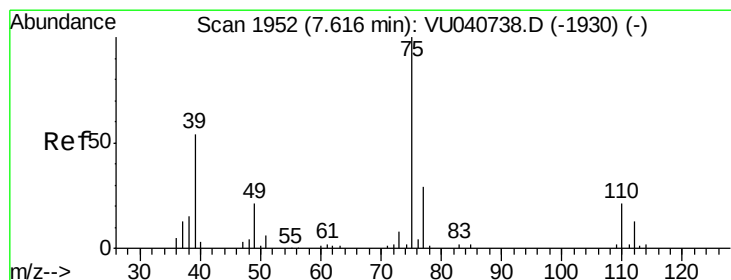
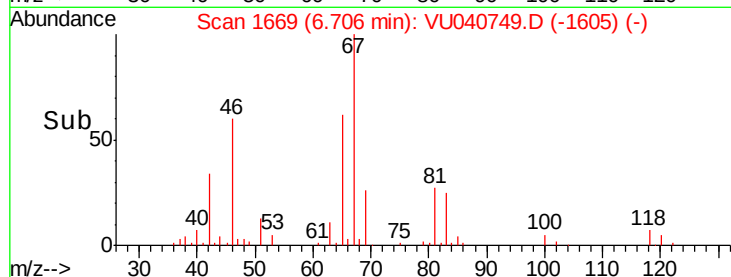
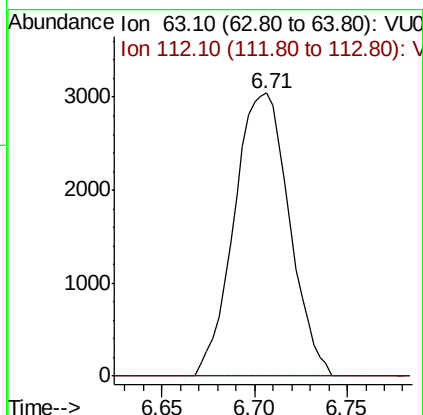
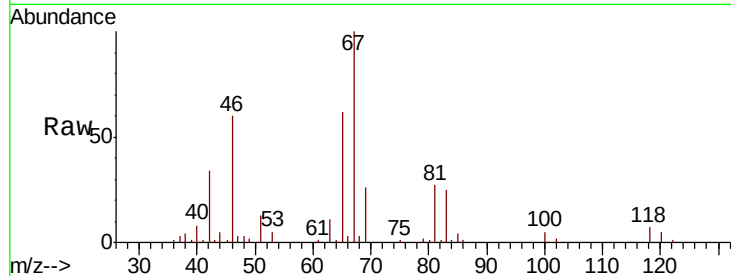




#37
 1,2-Dichloropropane
 Concen: 0.585 ug/L
 RT: 6.71 min Scan# 1669
 Delta R.T. -0.09 min
 Lab File: VU040749.D
 Acq: 16 Oct 2020 15:10

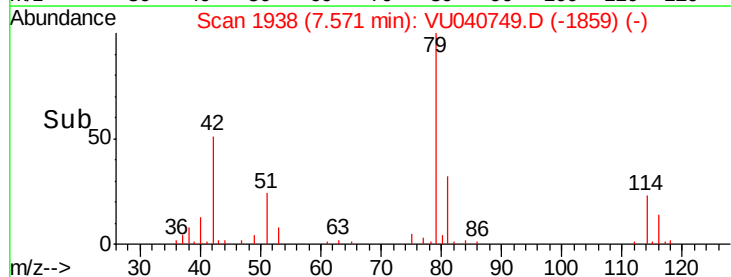
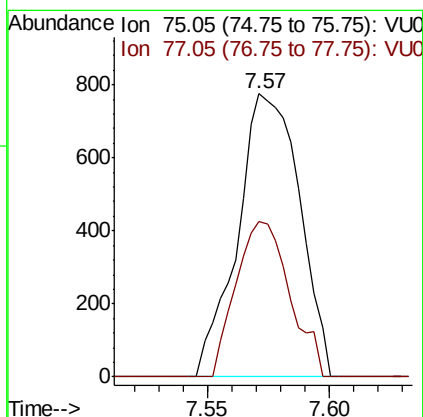
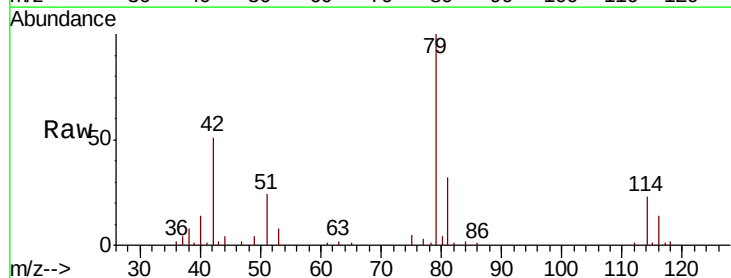
Instrument :
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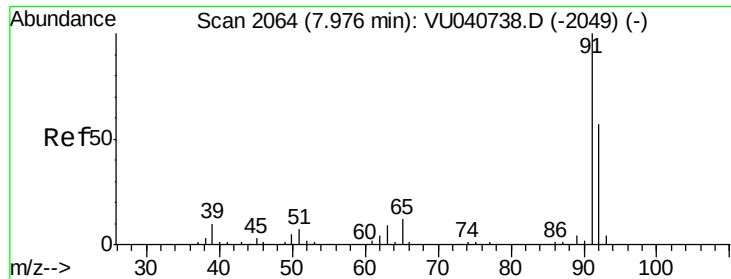
Tot Ion: 63 Resp: 6266
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.093 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU040749.D
 Acq: 16 Oct 2020 15:10

Tgt Ion: 75 Resp: 1368
 Ion Ratio Lower Upper
 75 100
 77 55.1 20.5 38.1#





#42

Toluene

Concen: 0.046 ug/L

RT: 7.97 min Scan# 2062

Delta R.T. -0.01 min

Lab File: VU040749.D

Acq: 16 Oct 2020 15:10

Instrument :

MSVOA_U

ClientSampleId :

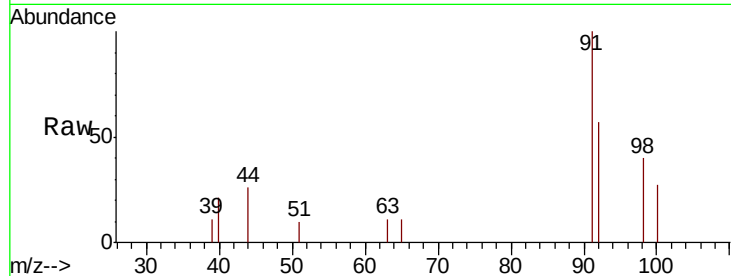
C0AJ2

Tot Ion: 91 Resp: 1821

Ion Ratio Lower Upper

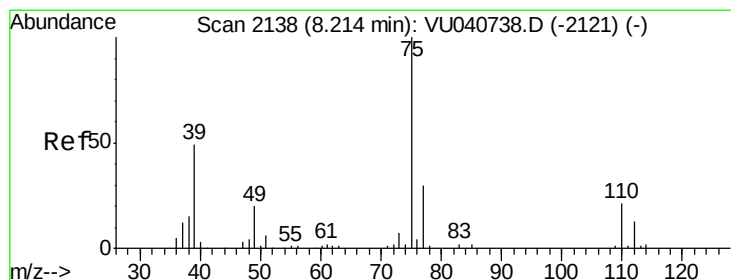
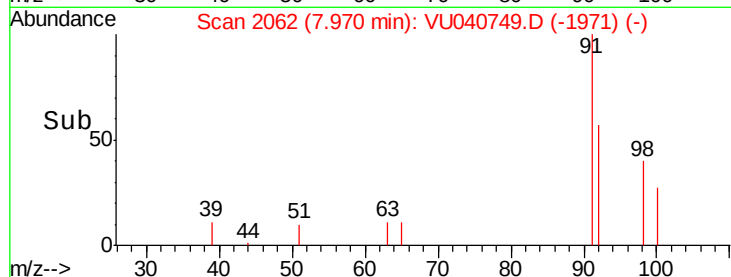
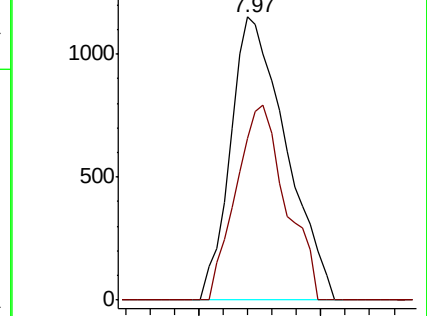
91 100

92 57.1 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.069 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040749.D

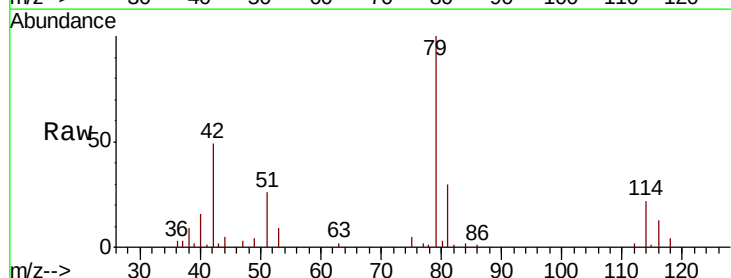
Acq: 16 Oct 2020 15:10

Tgt Ion: 75 Resp: 930

Ion Ratio Lower Upper

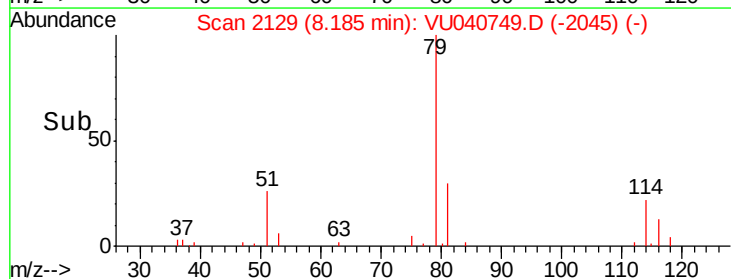
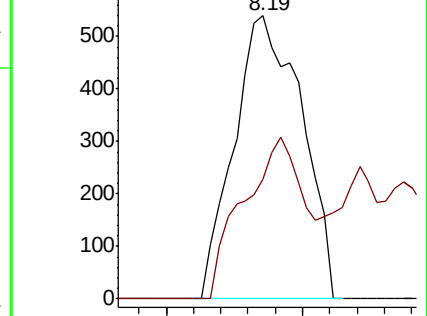
75 100

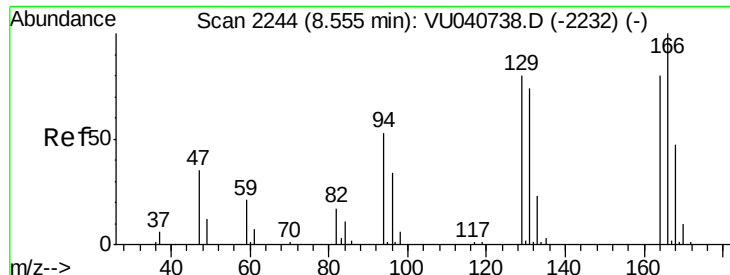
77 42.3 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#47

Tetrachloroethene

Concen: 0.339 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040749.D

Acq: 16 Oct 2020 15:10

Instrument :

MSVOA_U

ClientSampleId :

C0AJ2

Tot Ion:164 Resp: 2410

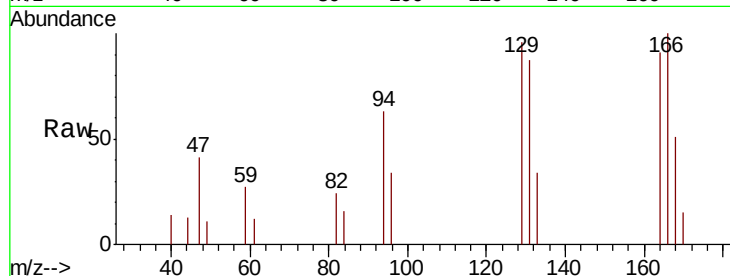
Ion Ratio Lower Upper

164 100

129 105.6 68.8 127.8

131 95.7 66.7 123.9

166 109.9 83.9 155.7

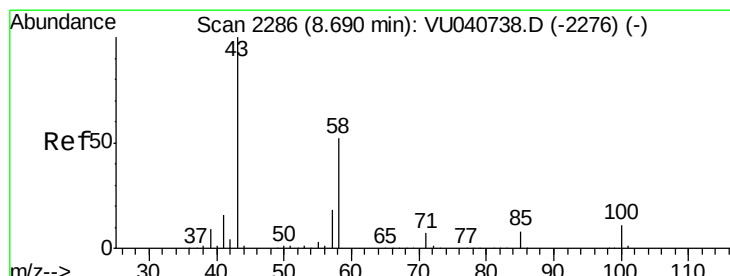
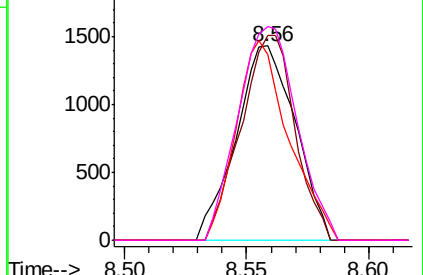
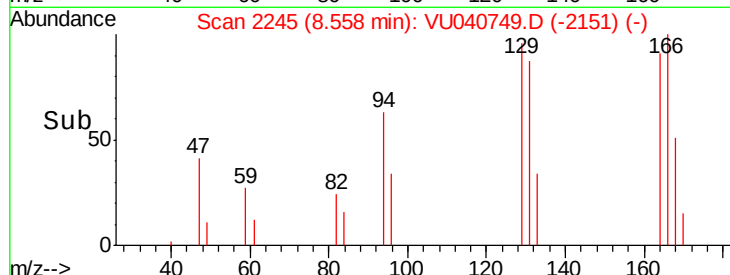


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.949 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040749.D

Acq: 16 Oct 2020 15:10

Tgt Ion: 43 Resp: 18758

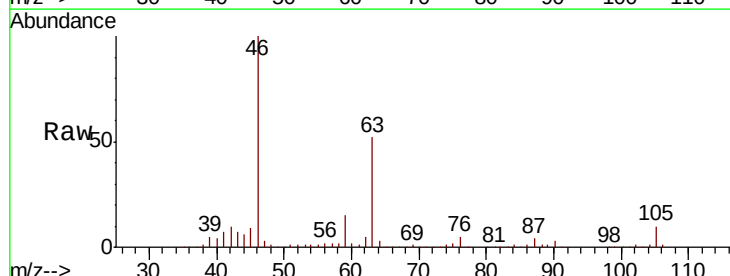
Ion Ratio Lower Upper

43 100

58 30.7 41.0 61.6#

57 28.8 14.4 21.6#

100 1.2 8.6 13.0#

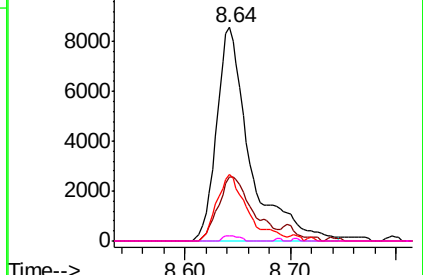
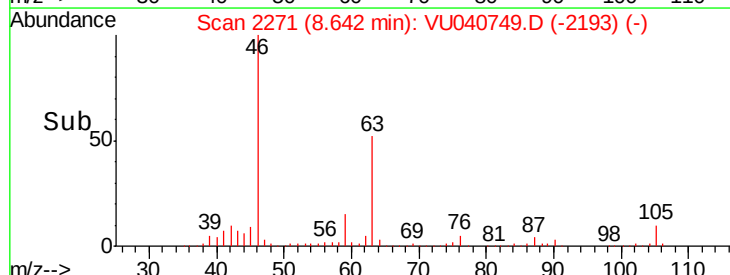


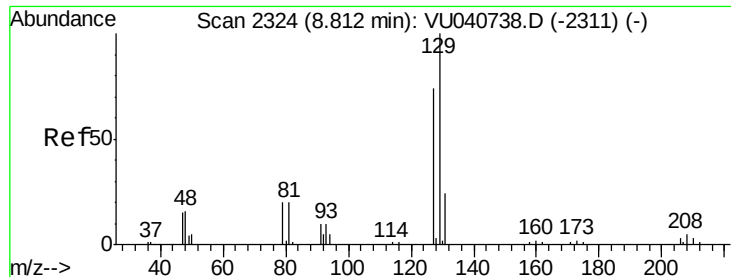
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.251 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040749.D

Acq: 16 Oct 2020 15:10

Instrument :

MSVOA_U

ClientSampleId :

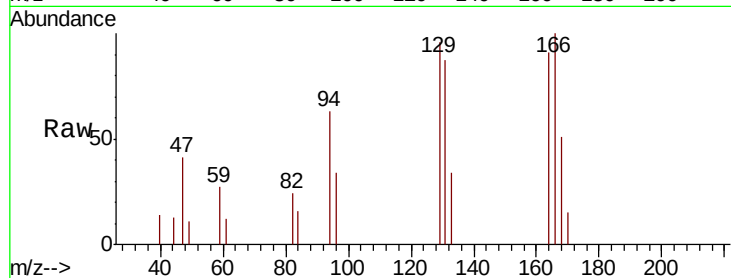
C0AJ2

Tot Ion:129 Resp: 2317

Ion Ratio Lower Upper

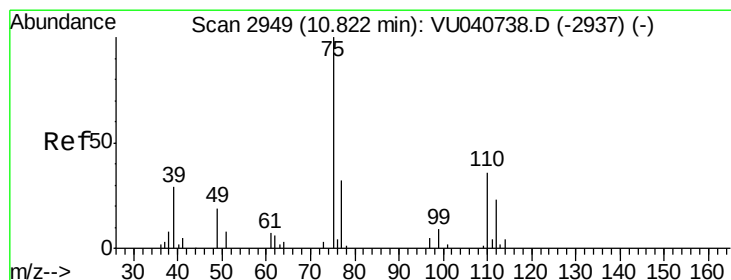
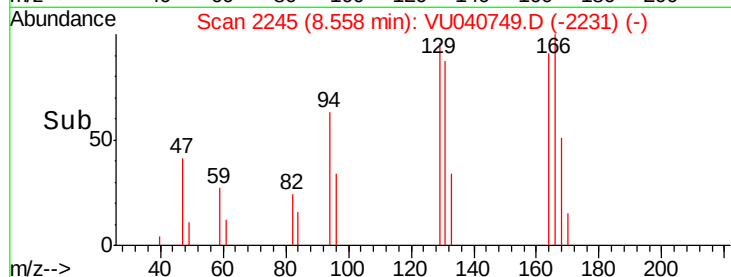
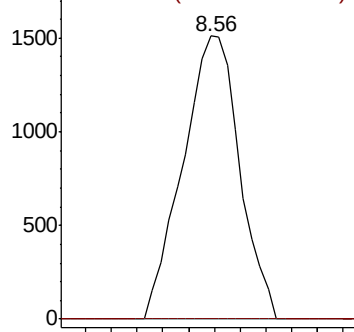
129 100

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



#59

1,2,3-Trichloropropane

Concen: 0.819 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040749.D

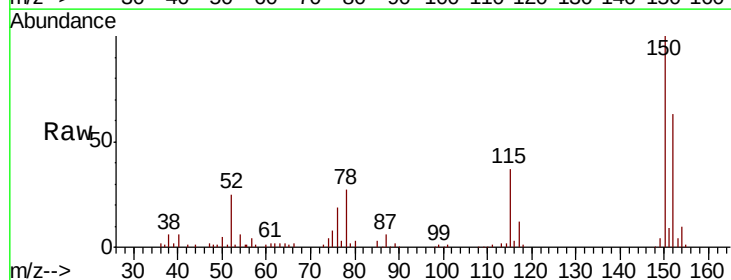
Acq: 16 Oct 2020 15:10

Tgt Ion: 75 Resp: 6447

Ion Ratio Lower Upper

75 100

77 34.7 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

