

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101720\
 Data File : VU040784.D
 Acq On : 18 Oct 2020 00:18
 Operator : SY/MD
 Sample : L4354-16MS
 Misc : 25.4mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ35MS

Quant Time: Oct 19 03:11:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 19 03:08:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	113770	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	117894	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	46593	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	34290	3.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.80%
7) Chloroethane-d5	1.93	69	33471	4.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.00%
11) 1,1-Dichloroethene-d2	2.58	63	76921	4.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.40%
20) 2-Butanone-d5	4.66	46	180758	59.92	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	119.84%
24) Chloroform-d	5.08	84	79027	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
26) 1,2-Dichloroethane-d4	5.72	65	52509	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.20%
32) Benzene-d6	5.74	84	142935	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.70	67	50207	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.91	98	107320	3.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.40%
43) trans-1,3-Dichloropropene-	8.19	79	18954	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
46) 2-Hexanone-d5	8.64	63	118101	51.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.50%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	49375	5.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	46832	5.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.40%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	1572	0.163 ug/L	99
5) Vinyl chloride	1.61	62	262506	25.858 ug/L	96
8) Chloroethane	1.96	64	764	0.118 ug/L #	50
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	435	0.046 ug/L #	22
12) 1,1-Dichloroethene	2.59	96	42270	5.207 ug/L	98
18) trans-1,2-Dichloroethene	3.38	96	1426	0.168 ug/L	93
22) cis-1,2-Dichloroethene	4.69	96	289040	31.542 ug/L	95
25) Chloroform	5.11	83	3430	0.191 ug/L	91
27) 1,2-Dichloroethane	5.79	62	1688	0.133 ug/L #	77
33) Benzene	5.79	78	186988	4.937 ug/L	100
34) Trichloroethene	6.56	95	49473	5.039 ug/L	97
35) Methylcyclohexane	6.70	83	12292	0.883 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	5924	0.561 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1023	0.071 ug/L #	60
42) Toluene	7.98	91	179811	4.659 ug/L	99
44) trans-1,3-Dichloropropene	8.18	75	966	0.073 ug/L #	77
47) Tetrachloroethene	8.56	164	562	0.080 ug/L #	79

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 19 03:08:11 2020
Response via : Initial Calibration

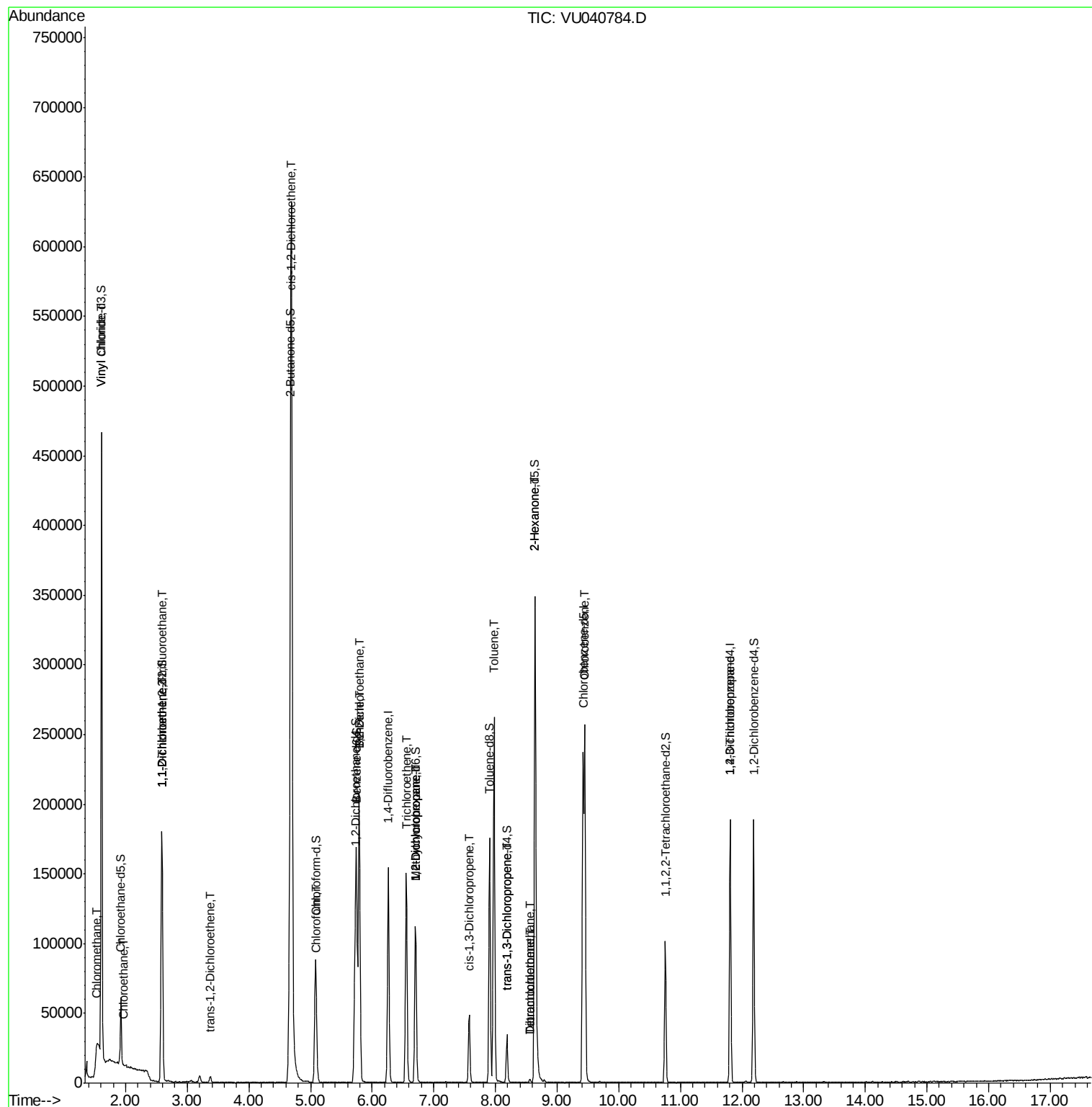
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	16768	2.677	ug/L #	74
49) Dibromochloromethane	8.56	129	471	0.052	ug/L #	9
51) Chlorobenzene	9.45	112	125951	4.954	ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	6199	0.800	ug/L	90

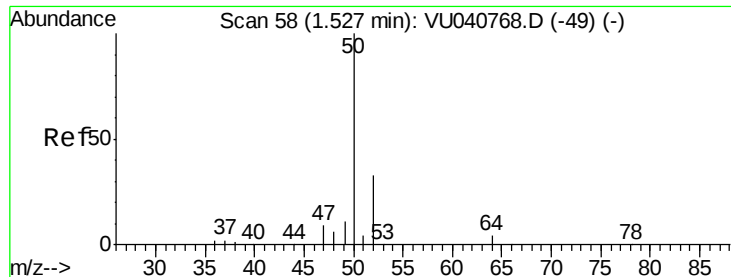
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.163 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

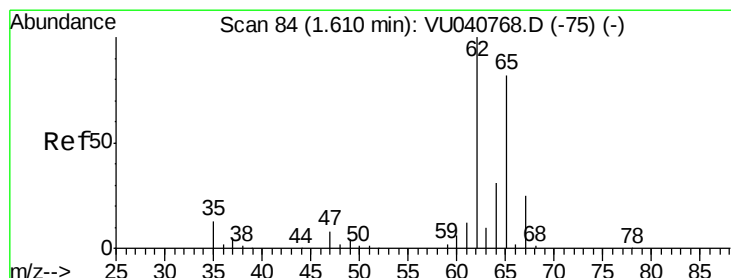
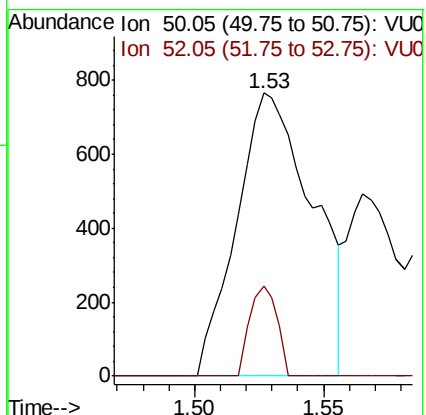
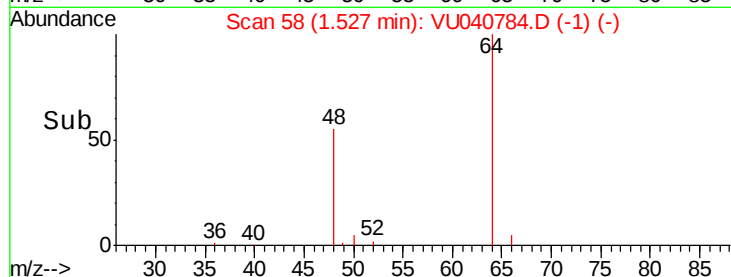
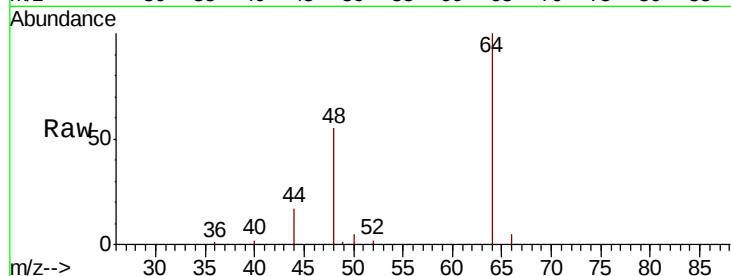
ETZ35MS

Tot Ion: 50 Resp: 1572

Ion Ratio Lower Upper

50 100

52 32.0 21.9 40.7



#5

Vinyl chloride

Concen: 25.858 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040784.D

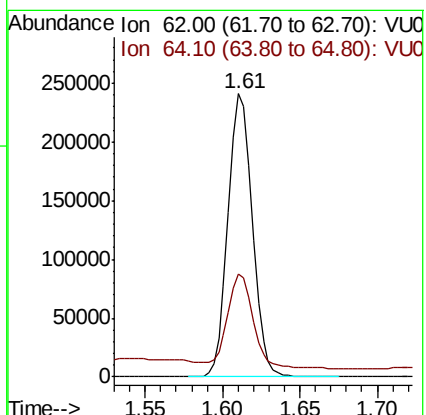
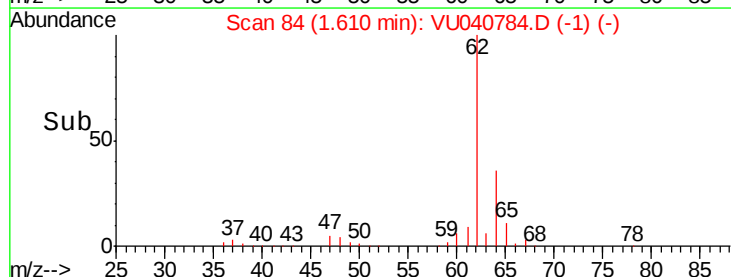
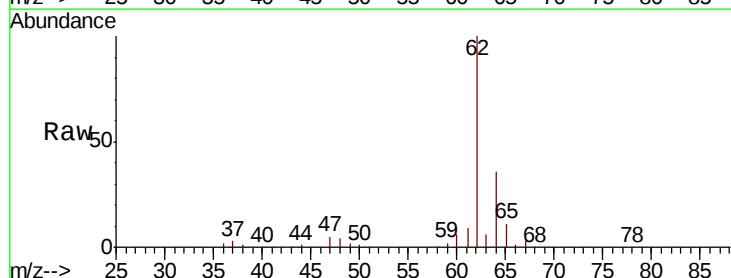
Acq: 18 Oct 2020 00:18

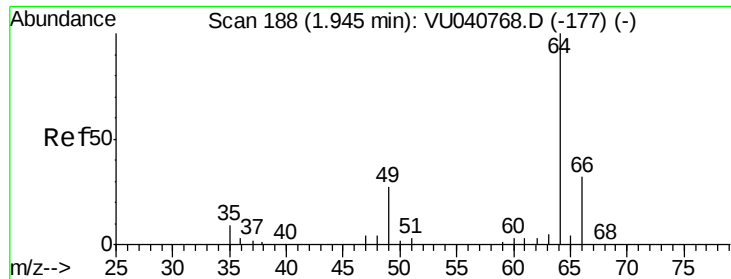
Tgt Ion: 62 Resp: 262506

Ion Ratio Lower Upper

62 100

64 36.3 23.7 44.1





#8

Chloroethane

Concen: 0.118 ug/L

RT: 1.96 min Scan# 193

Delta R.T. 0.02 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

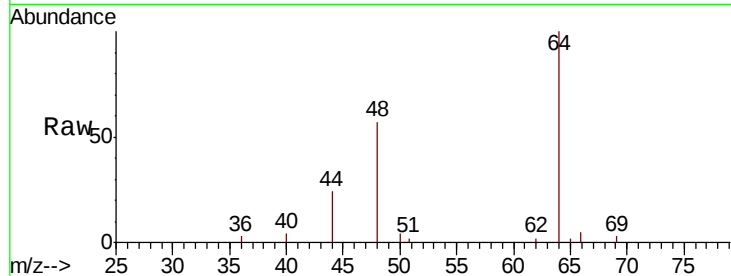
ETZ35MS

Tot Ion: 64 Resp: 764

Ion Ratio Lower Upper

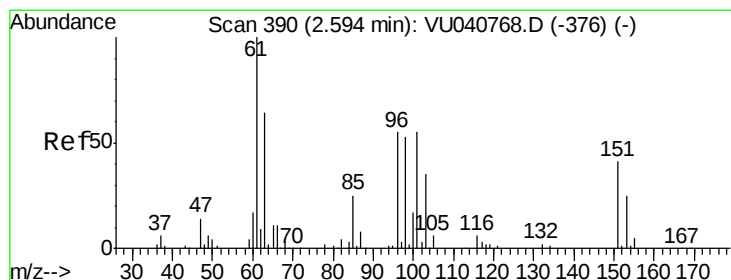
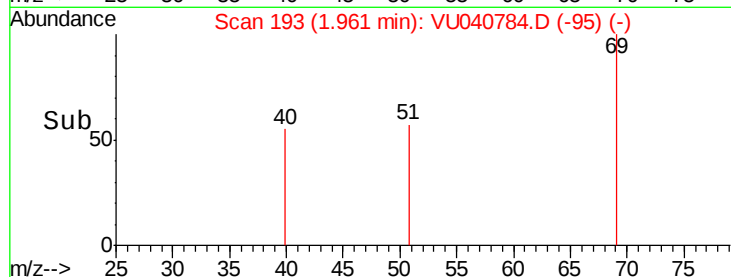
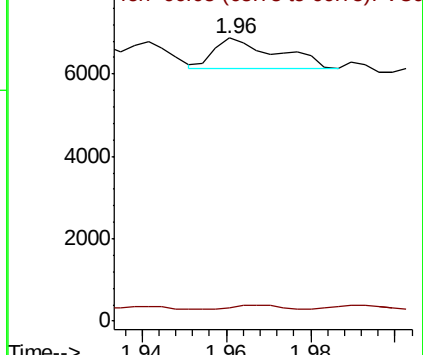
64 100

66 4.6 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU040784.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU040784.D (-177) (-)



#10

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

Concen: 0.046 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

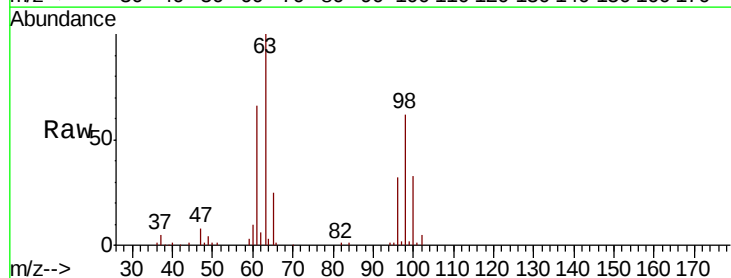
Tgt Ion: 101 Resp: 435

Ion Ratio Lower Upper

101 100

85 87.6 36.7 55.1#

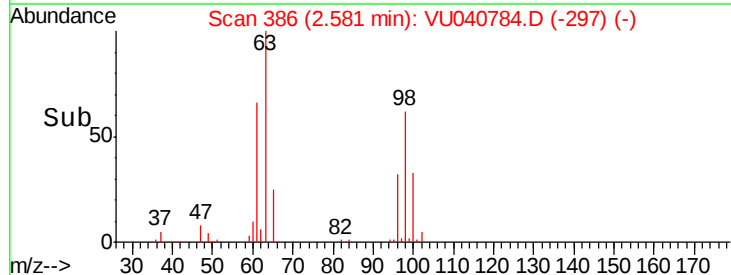
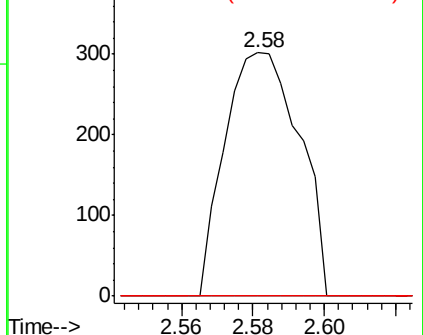
151 0.0 58.0 87.0#

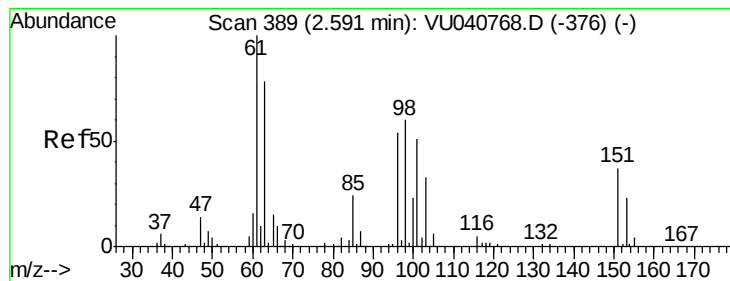


Abundance Ion 101.00 (100.70 to 101.70): VU040784.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VU040784.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VU040784.D (-297) (-)





#12

1,1-Dichloroethene

Concen: 5.207 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

ETZ35MS

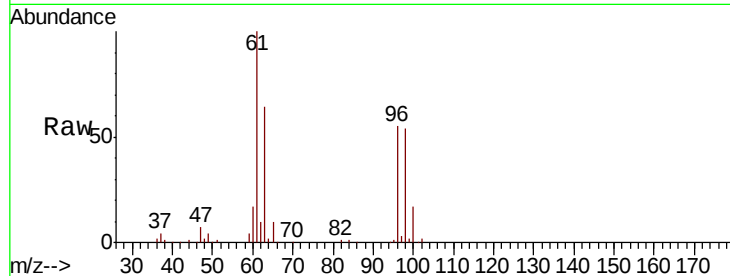
Tot Ion: 96 Resp: 42270

Ion Ratio Lower Upper

96 100

61 183.4 128.8 239.2

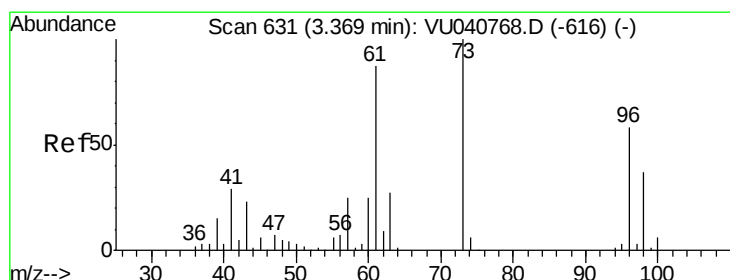
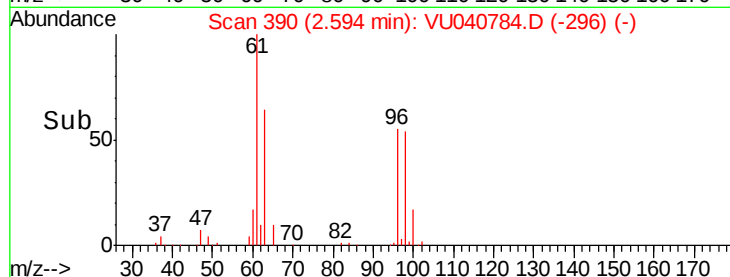
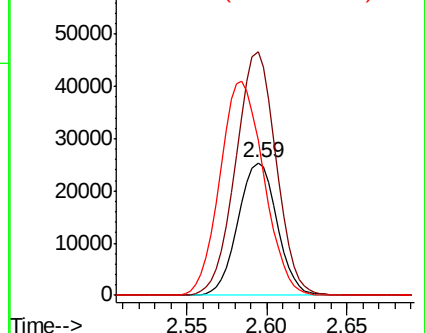
63 117.2 84.6 157.2



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



#18

trans-1,2-Dichloroethene

Concen: 0.168 ug/L

RT: 3.38 min Scan# 633

Delta R.T. 0.01 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

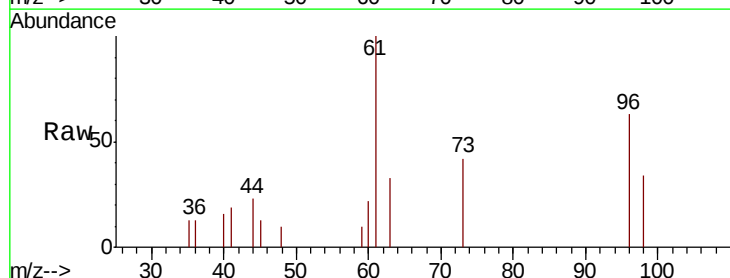
Tgt Ion: 96 Resp: 1426

Ion Ratio Lower Upper

96 100

61 158.6 105.9 196.7

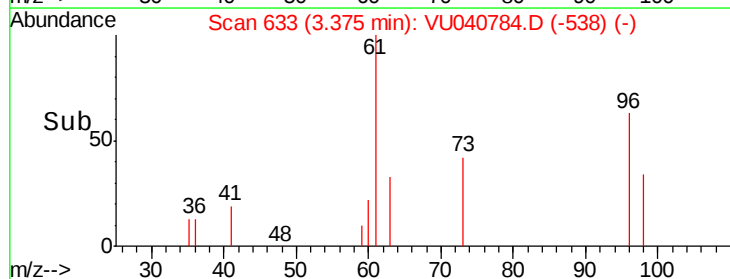
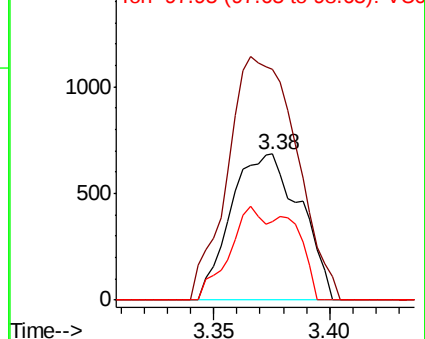
98 54.1 43.8 81.3

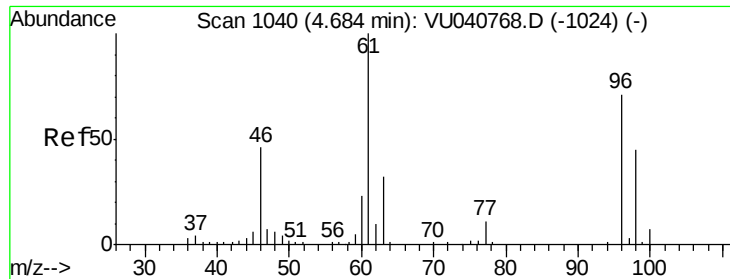


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

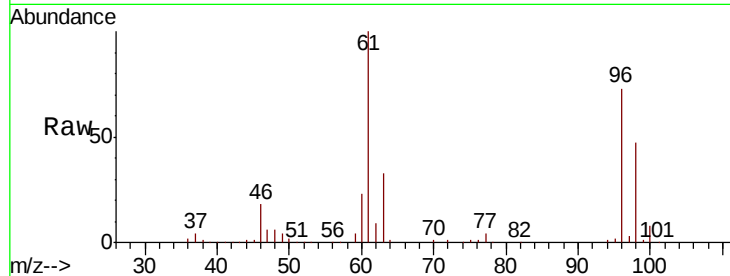




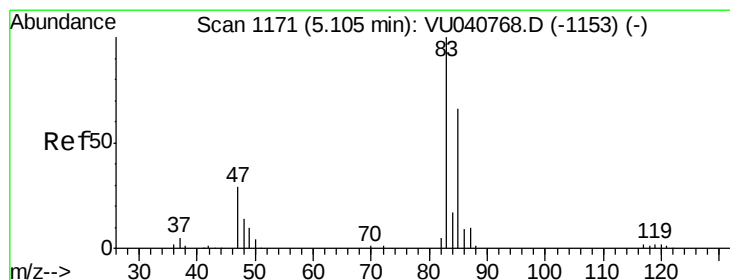
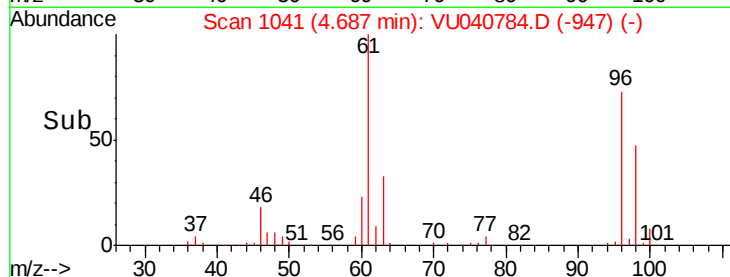
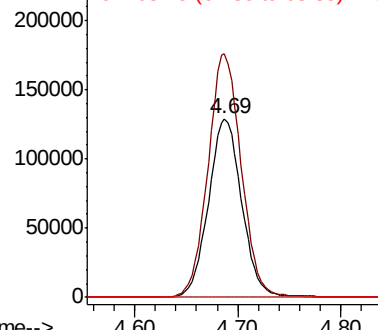
#22
 cis-1,2-Dichloroethene
 Concen: 31.542 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040784.D
 Acq: 18 Oct 2020 00:18

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ35MS

Tot Ion: 96 Resp: 289040
 Ion Ratio Lower Upper
 96 100
 61 136.4 99.8 185.4
 68 0.0 0.0 0.0

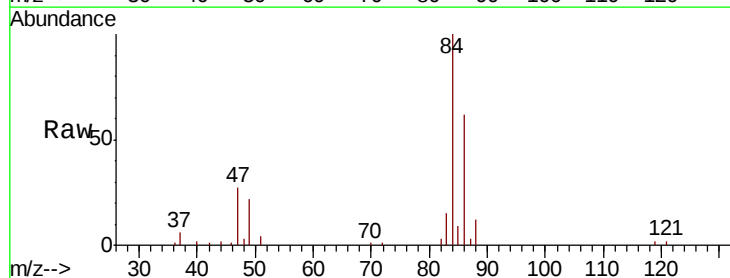


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

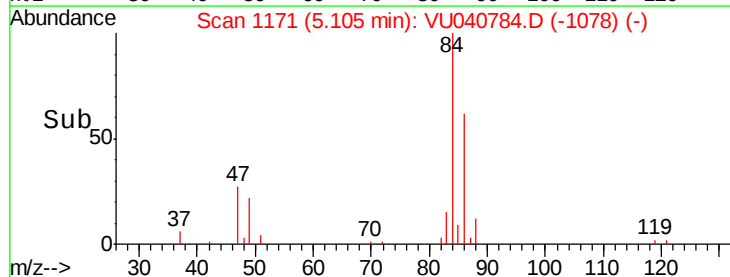
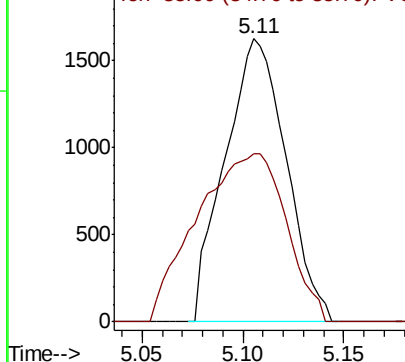


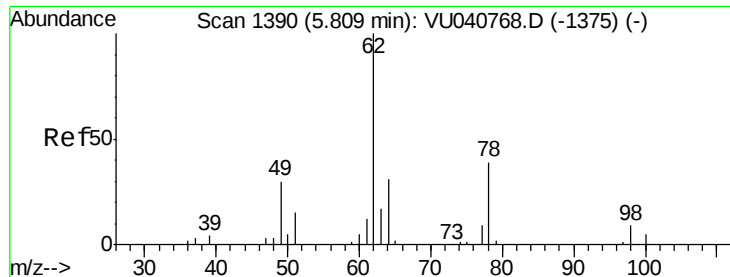
#25
 Chloroform
 Concen: 0.191 ug/L
 RT: 5.11 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: VU040784.D
 Acq: 18 Oct 2020 00:18

Tgt Ion: 83 Resp: 3430
 Ion Ratio Lower Upper
 83 100
 85 59.3 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

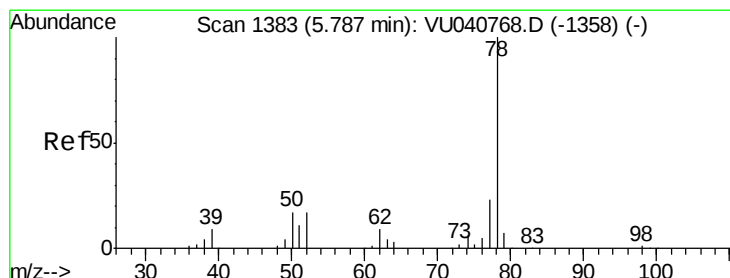
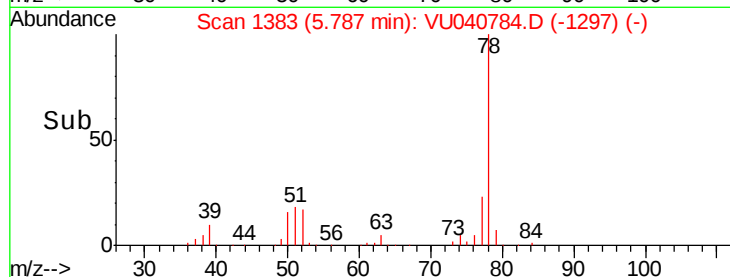
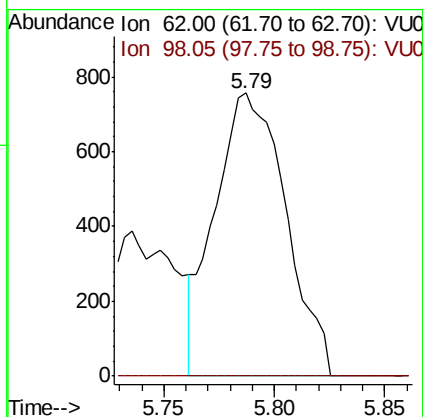
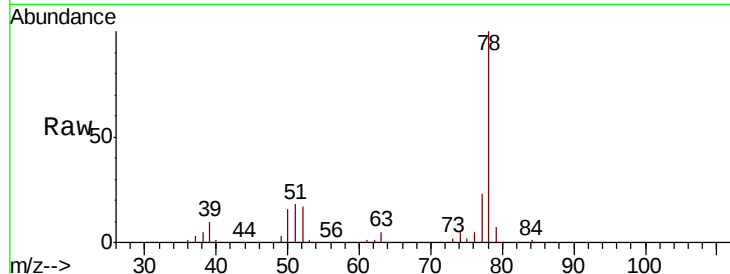




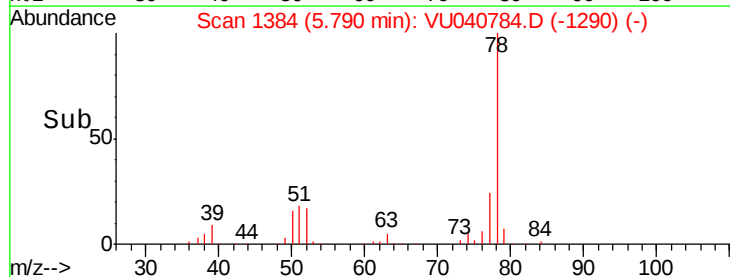
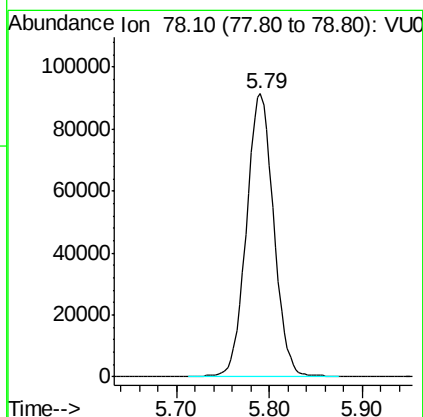
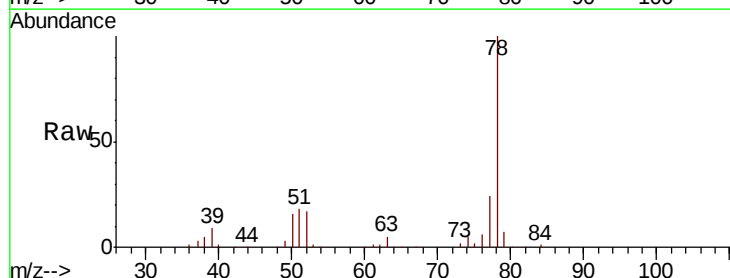
#27
 1,2-Dichloroethane
 Concen: 0.133 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. -0.02 min
 Lab File: VU040784.D
 Acq: 18 Oct 2020 00:18

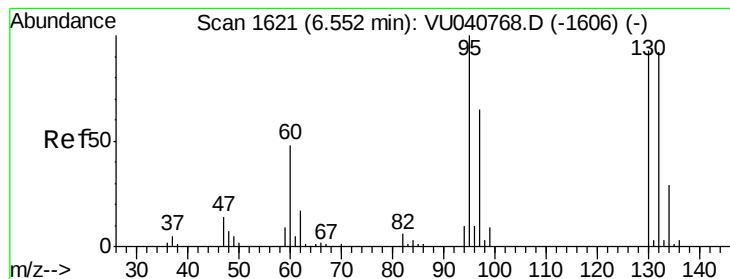
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ35MS

Tot Ion: 62 Resp: 1688
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#33
 Benzene
 Concen: 4.937 ug/L
 RT: 5.79 min Scan# 1384
 Delta R.T. 0.00 min
 Lab File: VU040784.D
 Acq: 18 Oct 2020 00:18
 Tgt Ion: 78 Resp: 186988





#34

Trichloroethene

Concen: 5.039 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

ETZ35MS

Tot Ion: 95 Resp: 49473

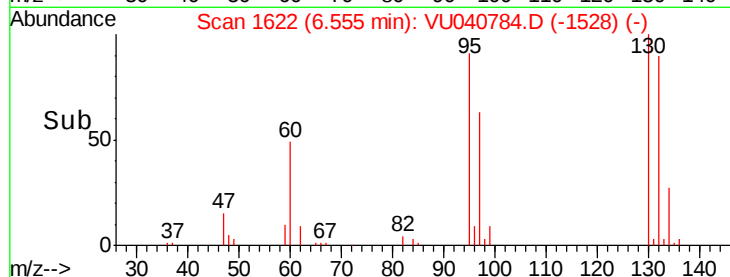
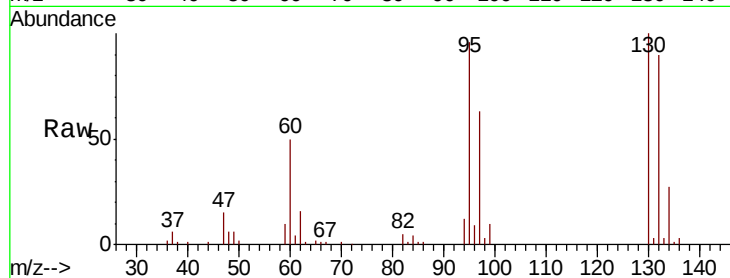
Ion Ratio Lower Upper

95 100

97 65.1 45.5 84.5

132 93.6 67.5 125.4

130 104.0 69.9 129.9

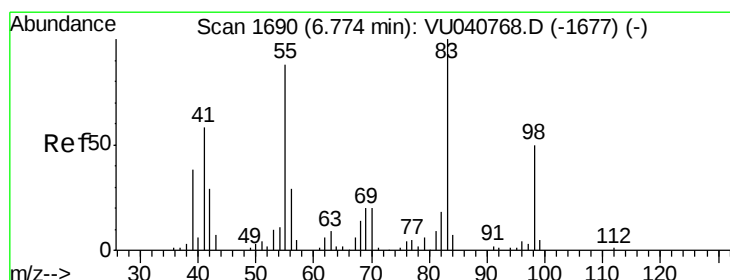
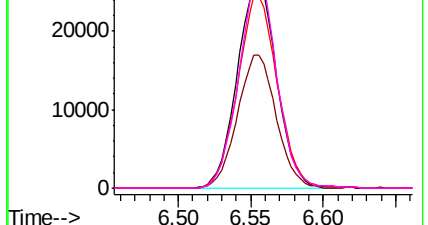


Abundance Ion 95.00 (94.70 to 95.70): VU040784.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU040784.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU040784.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU040784.D (-1528) (-)



#35

Methylcyclohexane

Concen: 0.883 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

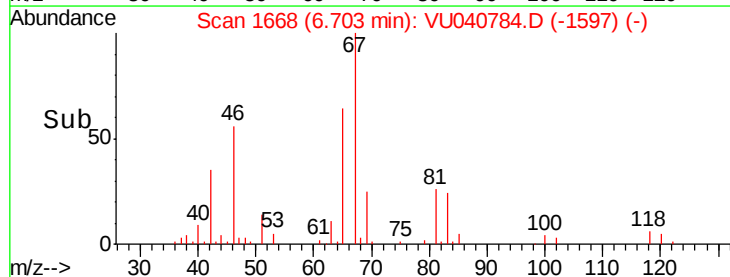
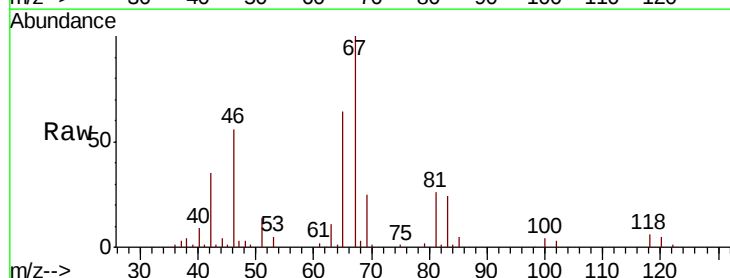
Tgt Ion: 83 Resp: 12292

Ion Ratio Lower Upper

83 100

55 0.0 70.7 106.1#

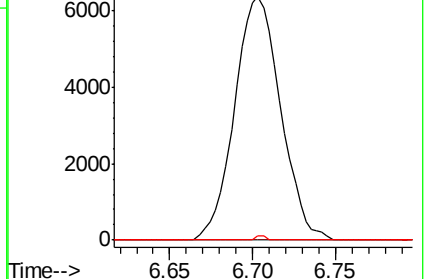
98 0.4 38.4 57.6#

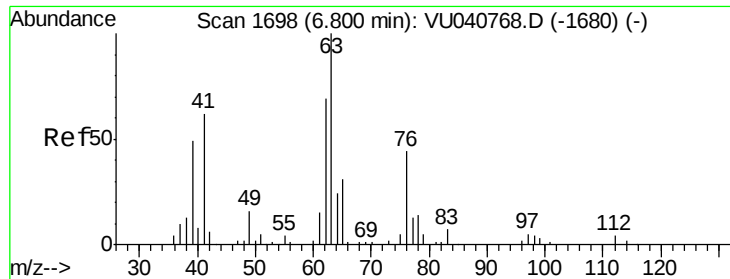


Abundance Ion 83.15 (82.85 to 83.85): VU040784.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU040784.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU040784.D (-1597) (-)

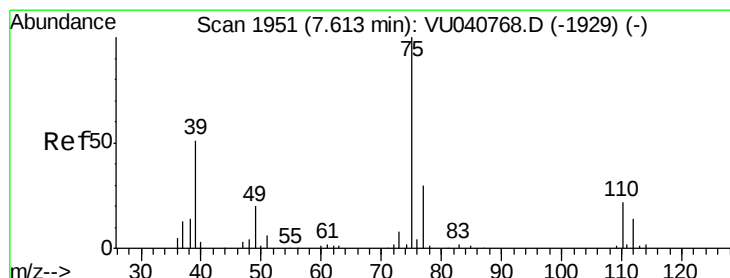
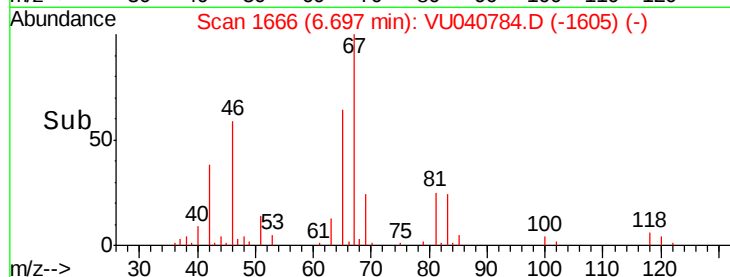
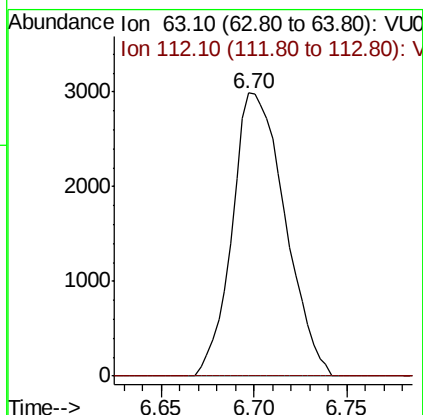
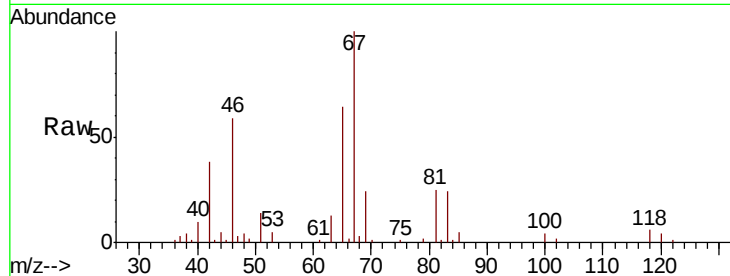




#37
 1,2-Dichloropropane
 Concen: 0.561 ug/L
 RT: 6.70 min Scan# 1666
 Delta R.T. -0.10 min
 Lab File: VU040784.D
 Acq: 18 Oct 2020 00:18

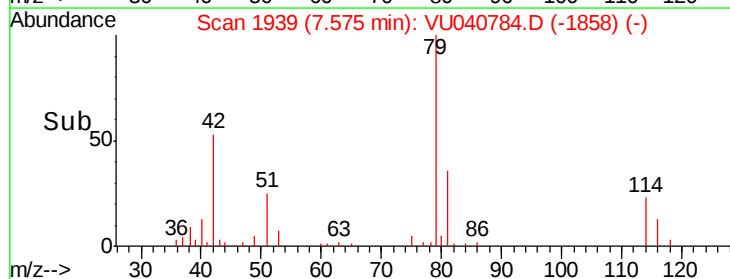
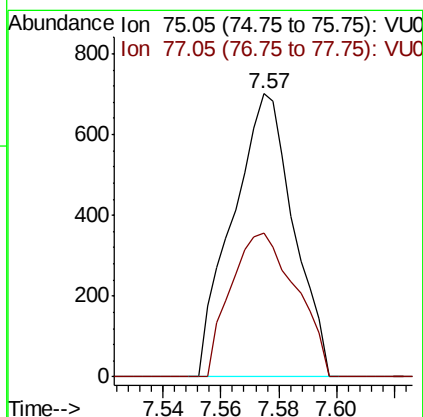
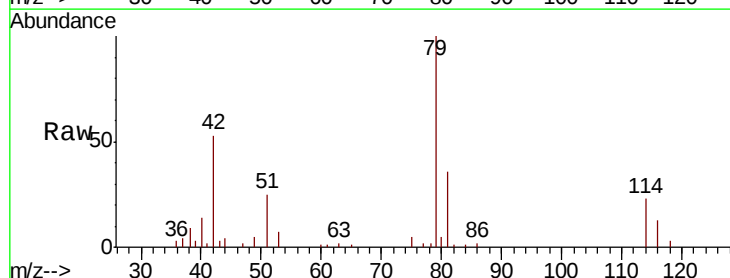
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ35MS

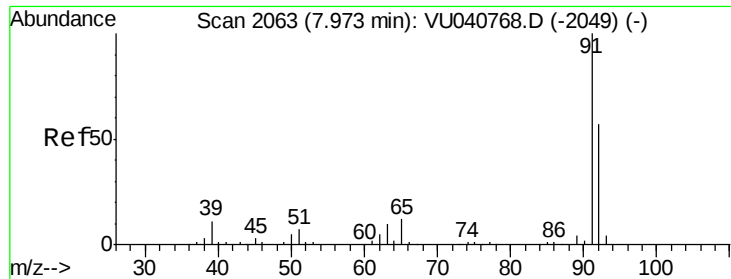
Tot Ion: 63 Resp: 5924
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.071 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040784.D
 Acq: 18 Oct 2020 00:18

Tgt Ion: 75 Resp: 1023
 Ion Ratio Lower Upper
 75 100
 77 50.9 20.5 38.1#





#42

Toluene

Concen: 4.659 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

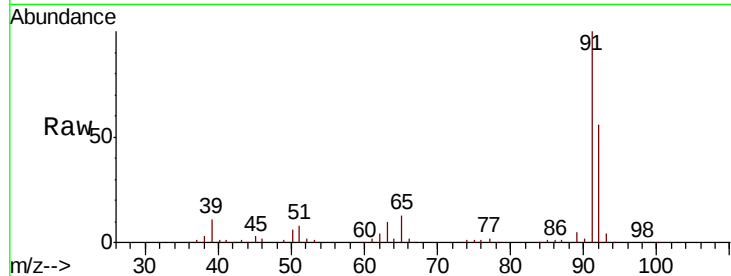
ETZ35MS

Tot Ion: 91 Resp: 179811

Ion Ratio Lower Upper

91 100

92 56.4 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU040768.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU040768.D (-2049) (-)

7.98

120000

100000

80000

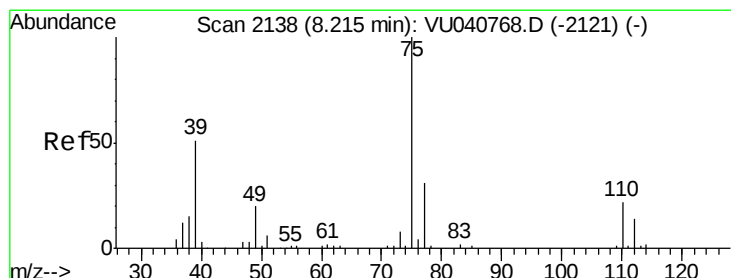
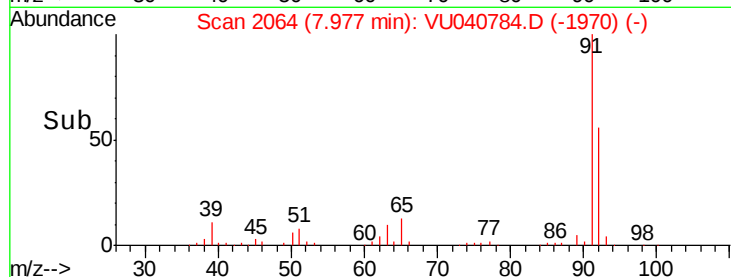
60000

40000

20000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.073 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU040784.D

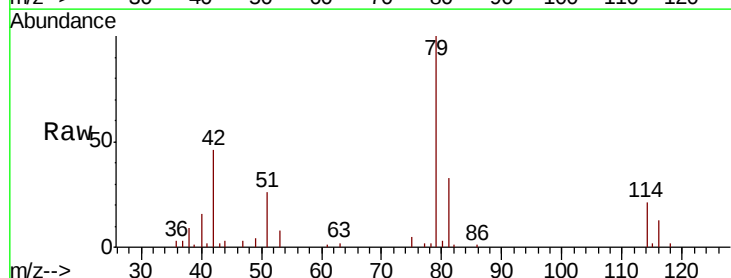
Acq: 18 Oct 2020 00:18

Tgt Ion: 75 Resp: 966

Ion Ratio Lower Upper

75 100

77 41.6 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU040768.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU040768.D (-2121) (-)

8.18

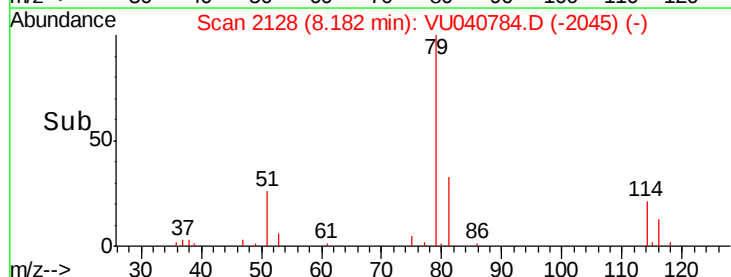
600

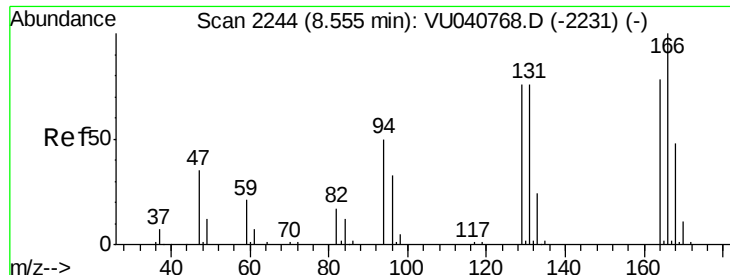
400

200

0

Time-->





#47

Tetrachloroethene

Concen: 0.080 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

ETZ35MS

Tot Ion:164 Resp: 562

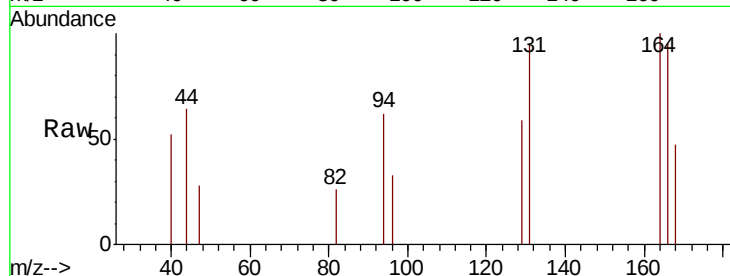
Ion Ratio Lower Upper

164 100

129 59.0 68.8 127.8#

131 94.7 66.7 123.9

166 95.4 83.9 155.7

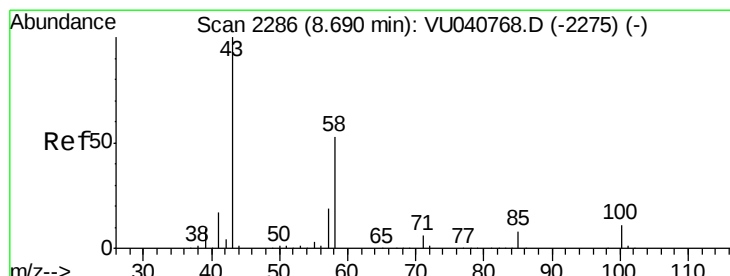
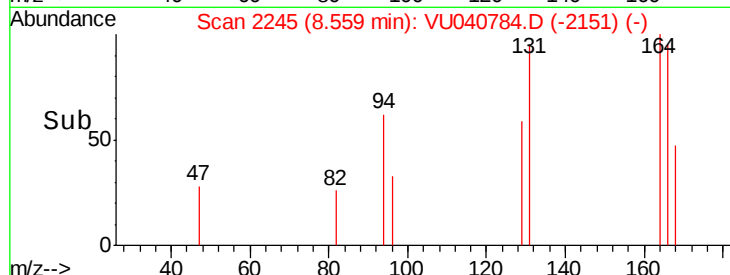
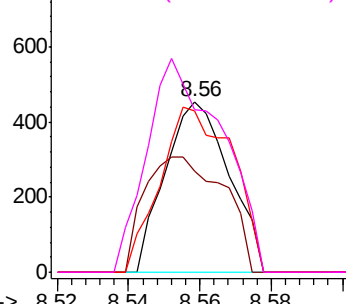


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.677 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Tgt Ion: 43 Resp: 16768

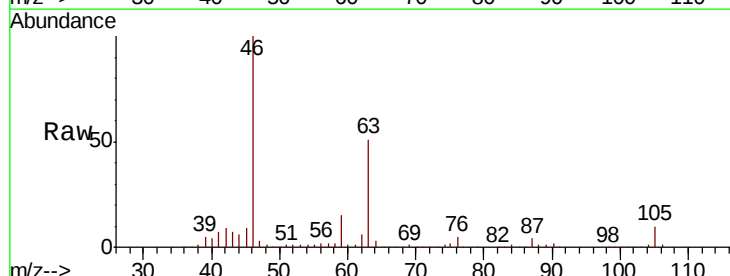
Ion Ratio Lower Upper

43 100

58 34.5 41.0 61.6#

57 31.2 14.4 21.6#

100 0.5 8.6 13.0#

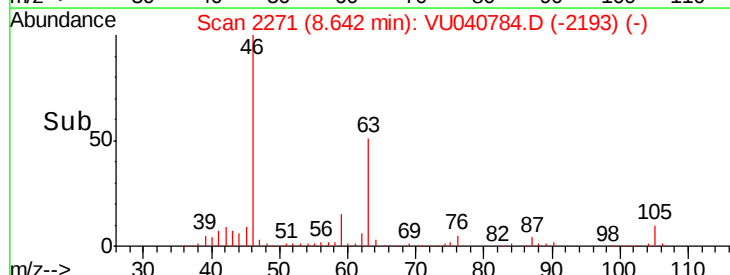
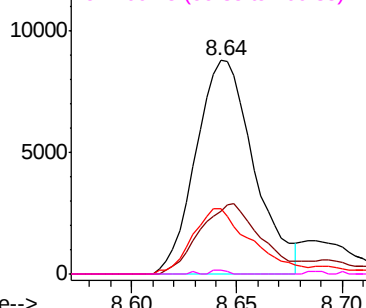


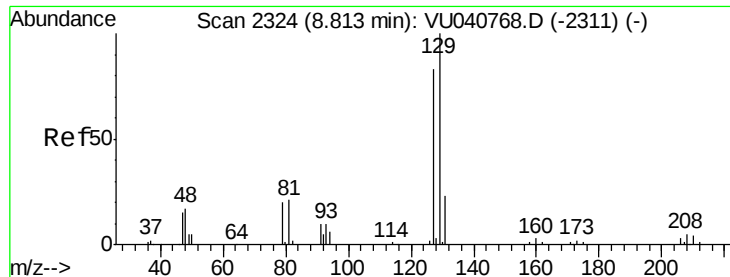
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.052 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

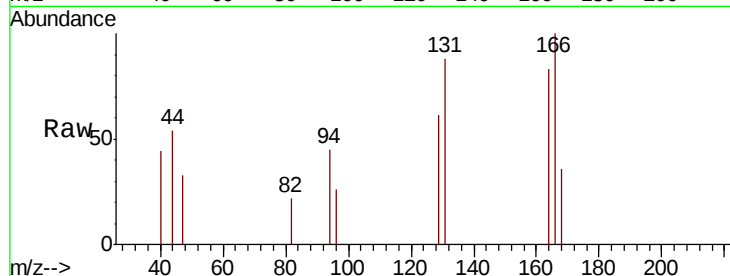
ETZ35MS

Tot Ion:129 Resp: 471

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

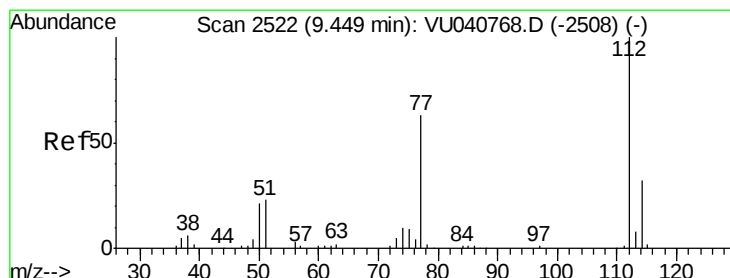
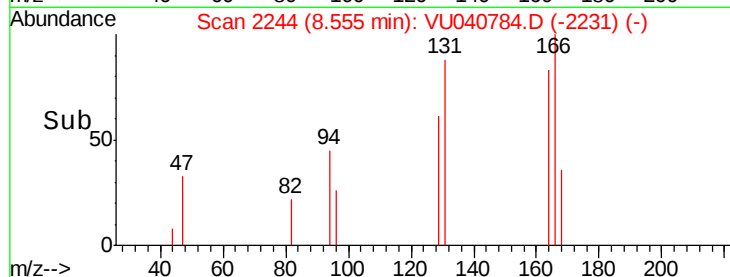
300

200

100

0

Time-->



#51

Chlorobenzene

Concen: 4.954 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

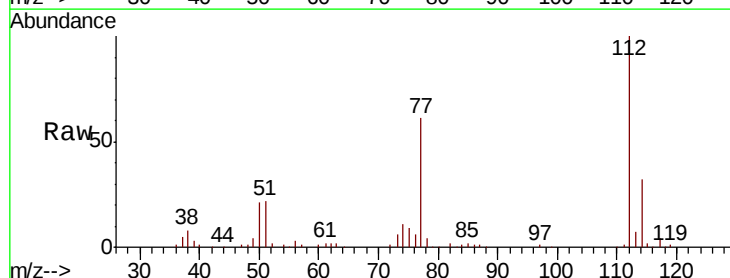
Tgt Ion:112 Resp: 125951

Ion Ratio Lower Upper

112 100

114 31.6 23.1 42.9

77 61.0 50.3 75.5



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0

100000

80000

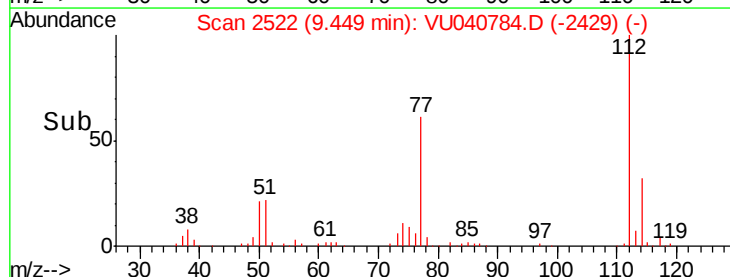
60000

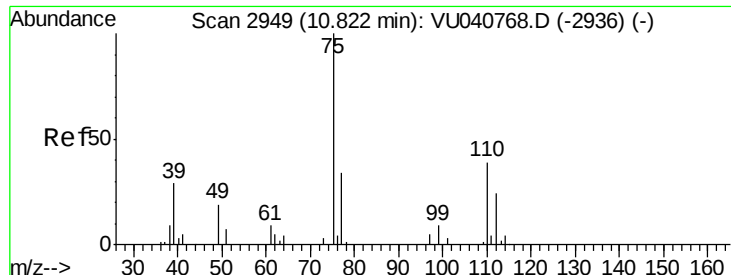
40000

20000

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.800 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040784.D

Acq: 18 Oct 2020 00:18

Instrument :

MSVOA_U

ClientSampleId :

ETZ35MS

Tot Ion: 75 Resp: 6199

Ion Ratio Lower Upper

75 100

77 38.7 26.4 39.6

