

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102921\
 Data File : VU045474.D
 Acq On : 29 Oct 2021 19:13
 Operator : SY/MD
 Sample : M4375-01
 Misc : 5.07g/10mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 30 04:10:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U102821W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 29 11:09:42 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

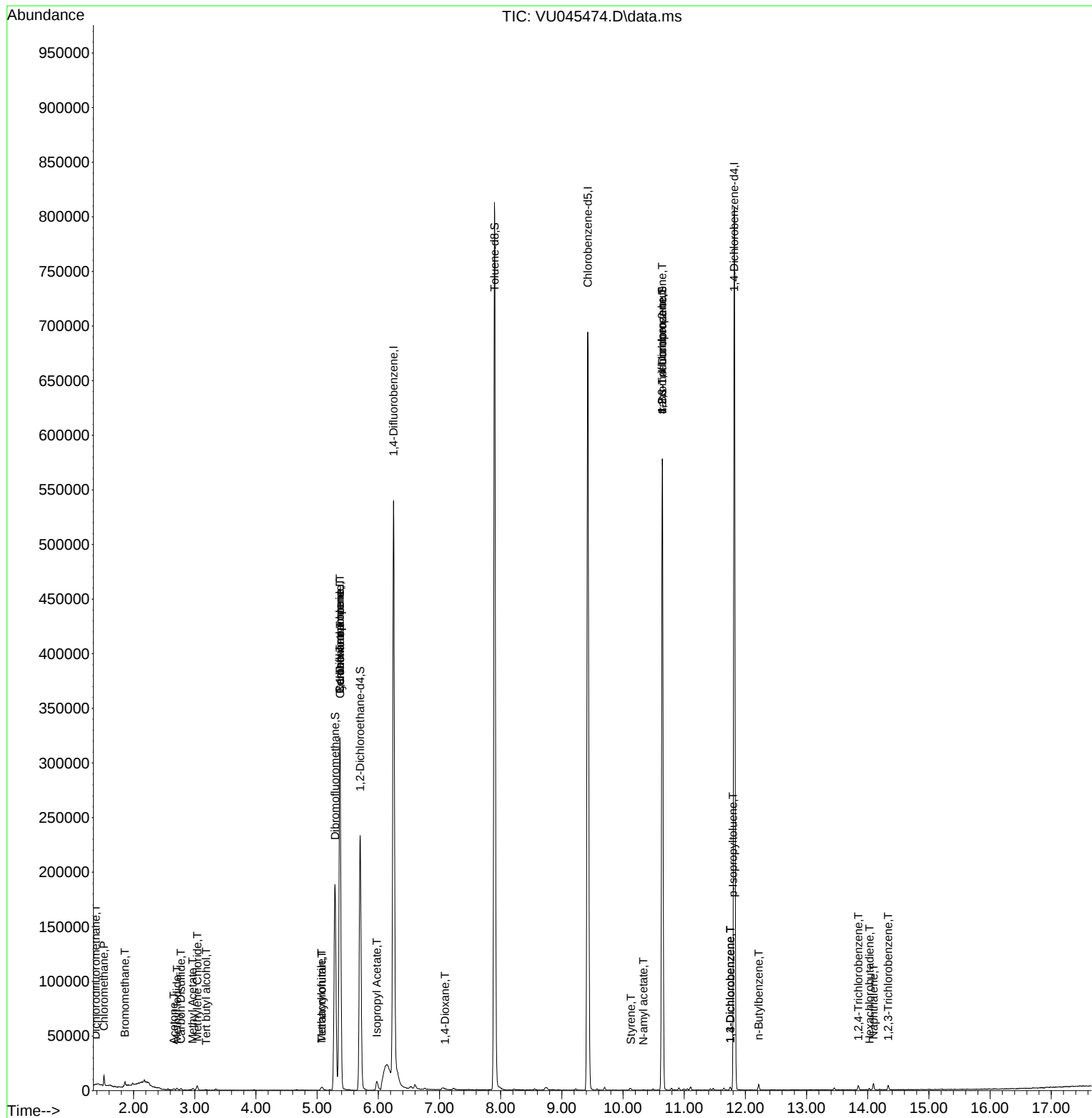
Internal Standards						
1) Pentafluorobenzene	5.372	168	218963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	433803	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.423	117	423745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.819	152	200002	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	180045	50.507	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.020%			
35) Dibromofluoromethane	5.292	113	131247	47.582	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.160%			
50) Toluene-d8	7.899	98	552250	51.056	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.120%			
62) 4-Bromofluorobenzene	10.642	95	210906	51.169	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.340%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.382	85	146	0.422	ug/l #	43
3) Chloromethane	1.517	50	6715	1.541	ug/l	95
5) Bromomethane	1.858	94	1714	0.781	ug/l	94
10) Methyl Iodide	2.710	142	1551	9.892	ug/l #	94
11) Tert butyl alcohol	3.186	59	173	0.225	ug/l #	72
16) Acetone	2.655	43	977	0.604	ug/l	89
17) Carbon Disulfide	2.774	76	1827	0.251	ug/l	99
18) Methyl Acetate	2.964	43	1405	0.233	ug/l	98
20) Methylene Chloride	3.041	84	1795	0.557	ug/l	89
29) Tetrahydrofuran	5.076	42	2577	1.626	ug/l #	69
31) Cyclohexane	5.375	56	5853	1.103	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	19484	4.718	ug/l #	49
38) Carbon Tetrachloride	5.372	117	22977	6.380	ug/l #	16
41) Methacrylonitrile	5.073	41	1501	0.567	ug/l #	38
43) Isopropyl Acetate	5.977	43	4325	0.574	ug/l #	59
49) 1,4-Dioxane	7.089	88	67	0.738	ug/l #	13
70) Styrene	10.131	104	939	1.068	ug/l	92
74) N-amyl acetate	10.333	43	383	1.209	ug/l #	40
76) 1,2,3-Trichloropropane	10.642	75	109099	20.473	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.642	75	109099	56.801	ug/l #	12
86) p-Isopropyltoluene	11.800	119	1249	0.286	ug/l #	40
87) 1,3-Dichlorobenzene	11.755	146	1282	0.206	ug/l	99
88) 1,4-Dichlorobenzene	11.755	146	1282	0.202	ug/l	98
89) n-Butylbenzene	12.218	91	2056	1.100	ug/l	95
93) 1,2,4-Trichlorobenzene	13.844	180	1522	0.366	ug/l	94
94) Hexachlorobutadiene	14.028	225	428	0.283	ug/l	90
95) Naphthalene	14.095	128	4753	0.389	ug/l	99
96) 1,2,3-Trichlorobenzene	14.336	180	1550	0.370	ug/l	93

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

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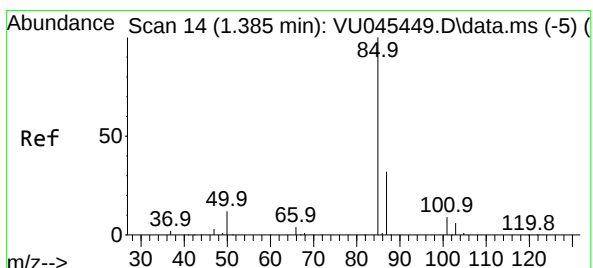
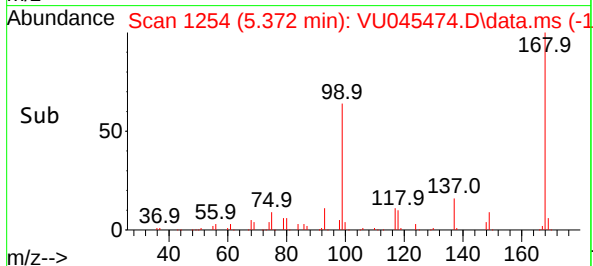
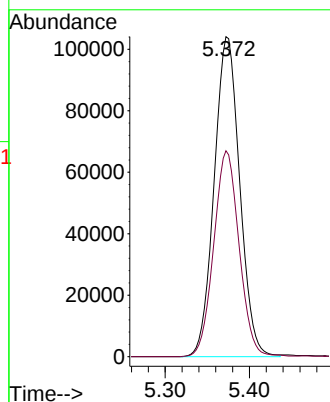
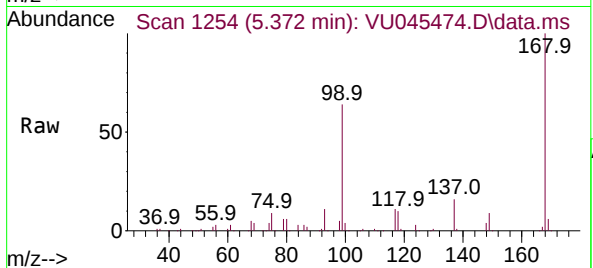




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. -0.007 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

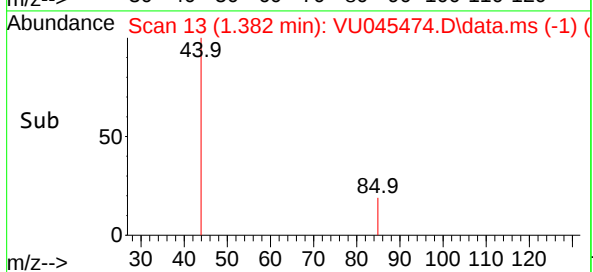
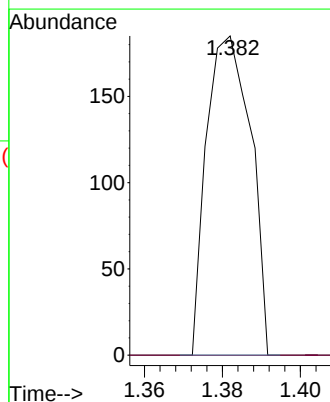
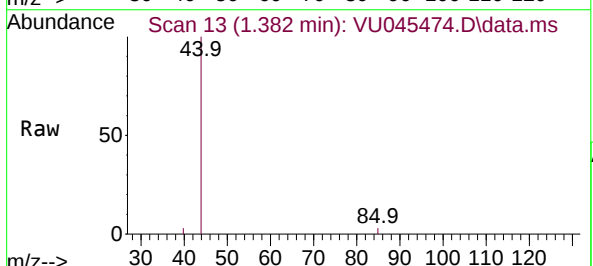
Instrument :
MSVOA_U
ClientSampleId :

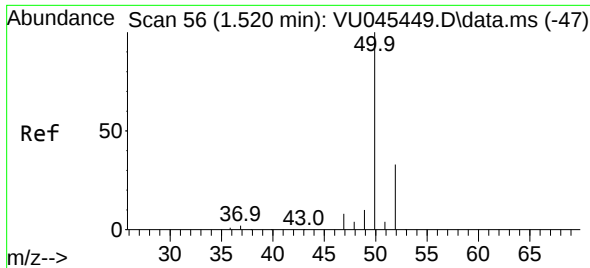
Tgt Ion:168 Resp: 218963
Ion Ratio Lower Upper
168 100
99 64.4 51.0 76.6



#2
Dichlorodifluoromethane
Concen: 0.422 ug/l
RT: 1.382 min Scan# 13
Delta R.T. -0.003 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 85 Resp: 146
Ion Ratio Lower Upper
85 100
87 0.0 15.9 47.7#

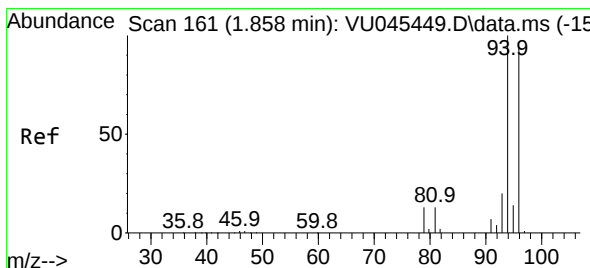
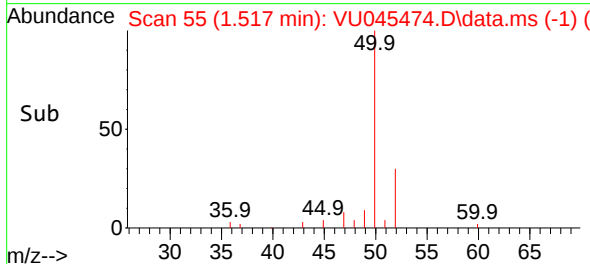
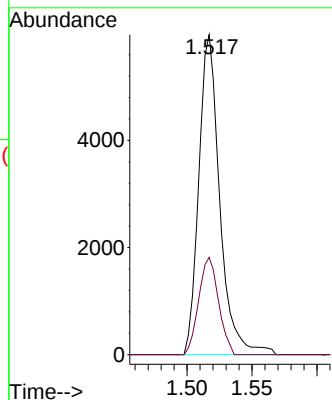
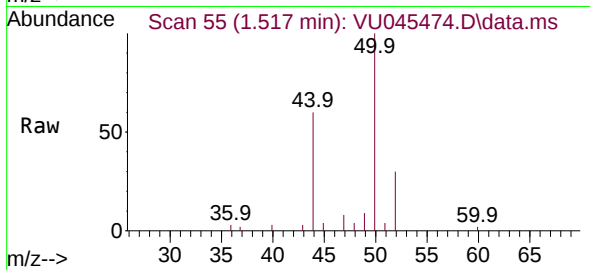




#3
Chloromethane
Concen: 1.541 ug/l
RT: 1.517 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

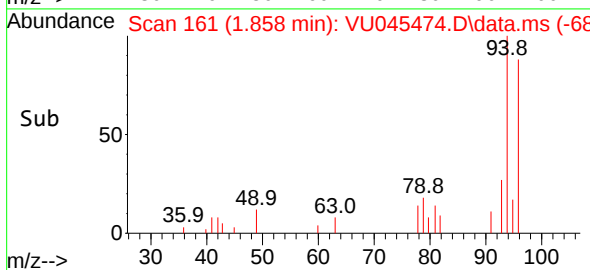
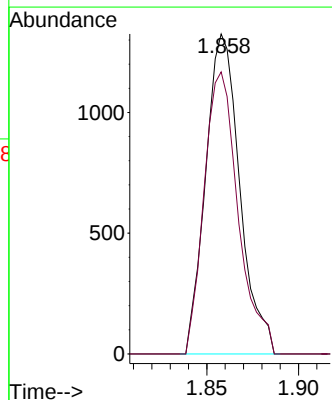
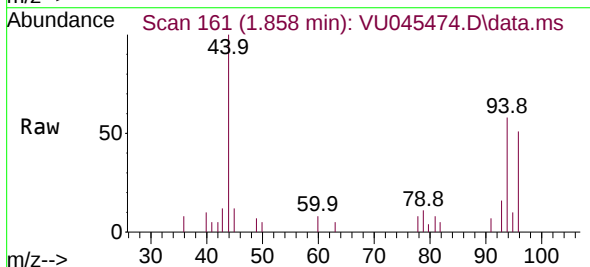
Instrument :
MSVOA_U
ClientSampleId :

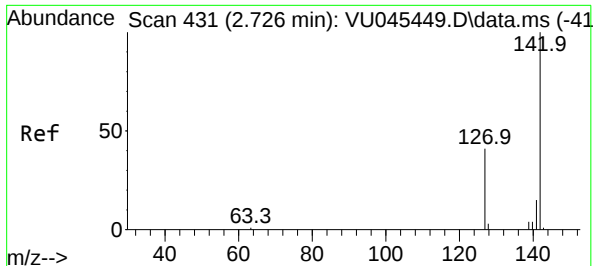
Tgt Ion: 50 Resp: 6715
Ion Ratio Lower Upper
50 100
52 30.4 26.6 40.0



#5
Bromomethane
Concen: 0.781 ug/l
RT: 1.858 min Scan# 161
Delta R.T. -0.000 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

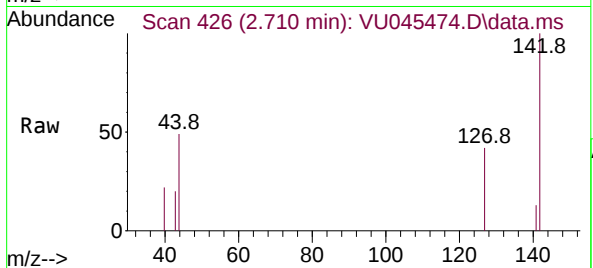
Tgt Ion: 94 Resp: 1714
Ion Ratio Lower Upper
94 100
96 88.2 75.4 113.2



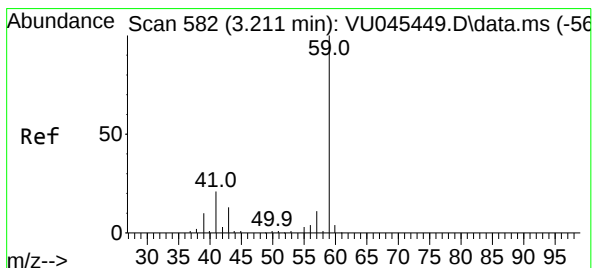
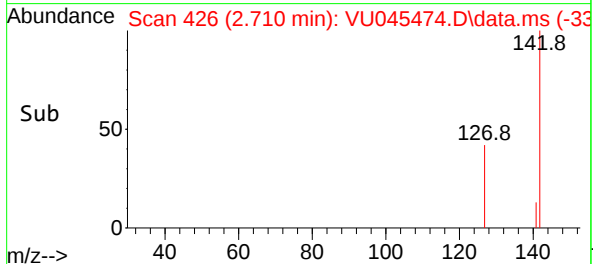
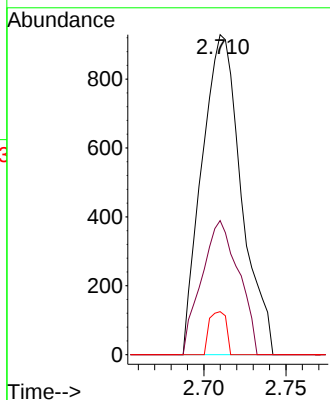


#10
Methyl Iodide
Concen: 9.892 ug/l
RT: 2.710 min Scan# 41
Delta R.T. -0.016 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Instrument :
MSVOA_U
ClientSampleId :

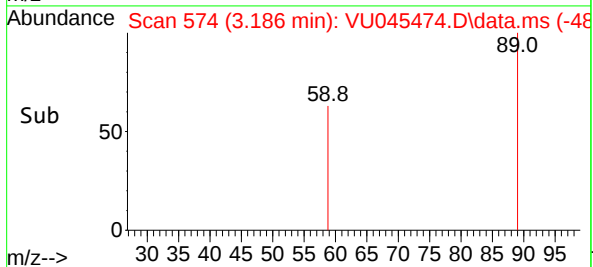
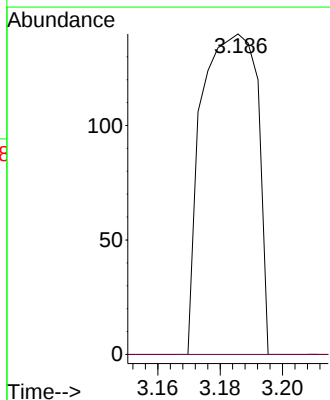
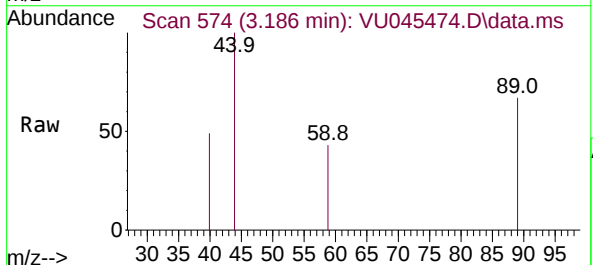


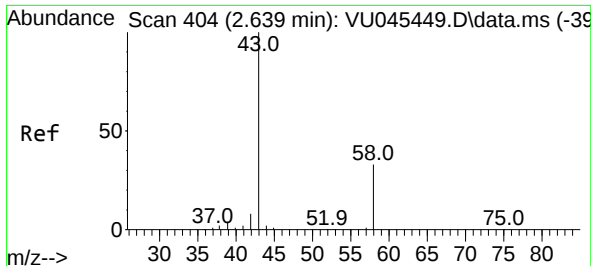
Tgt Ion:142 Resp: 1551
Ion Ratio Lower Upper
142 100
127 39.4 32.2 48.2
141 5.8 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.225 ug/l
RT: 3.186 min Scan# 574
Delta R.T. -0.026 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 59 Resp: 173
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

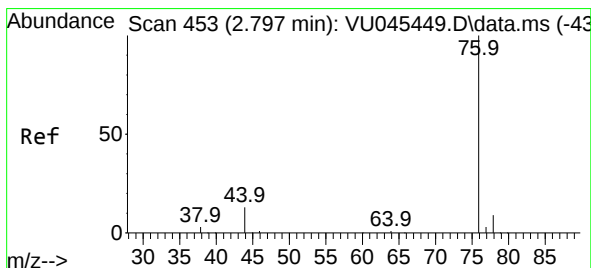
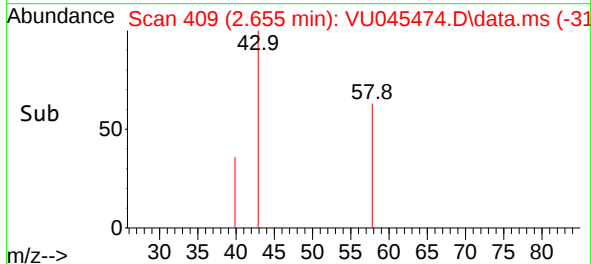
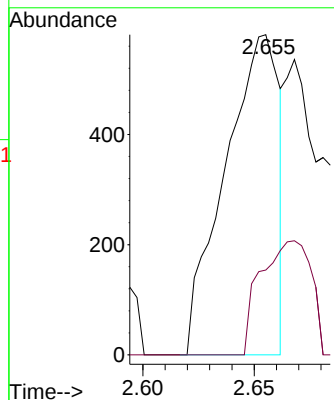
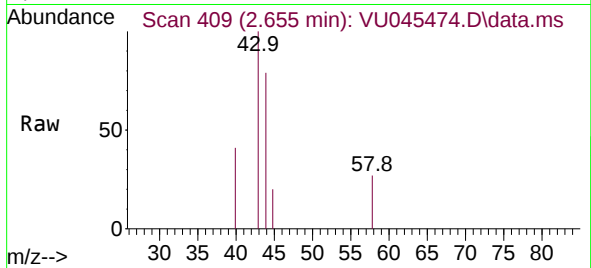




#16
Acetone
Concen: 0.604 ug/l
RT: 2.655 min Scan# 409
Delta R.T. 0.016 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

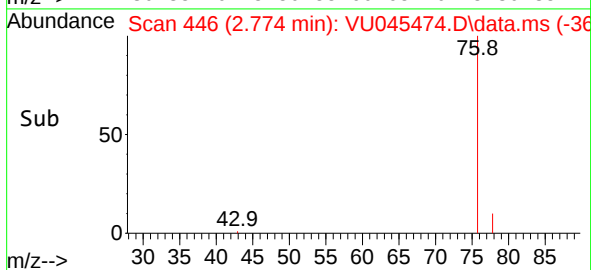
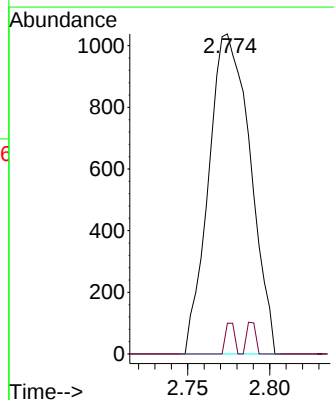
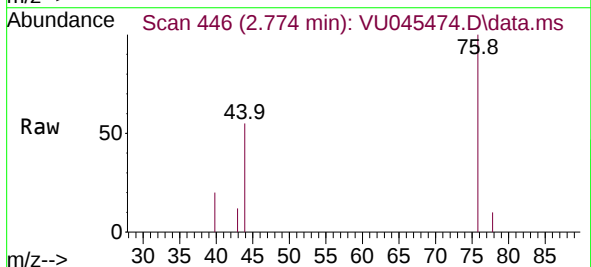
Instrument :
MSVOA_U
ClientSampleId :

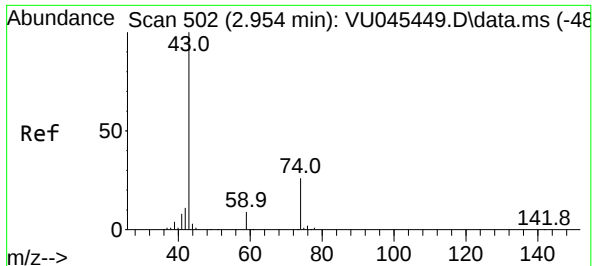
Tgt Ion: 43 Resp: 977
Ion Ratio Lower Upper
43 100
58 26.5 26.2 39.2



#17
Carbon Disulfide
Concen: 0.251 ug/l
RT: 2.774 min Scan# 446
Delta R.T. -0.022 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 76 Resp: 1827
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9

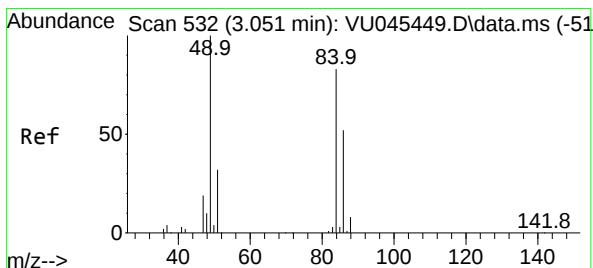
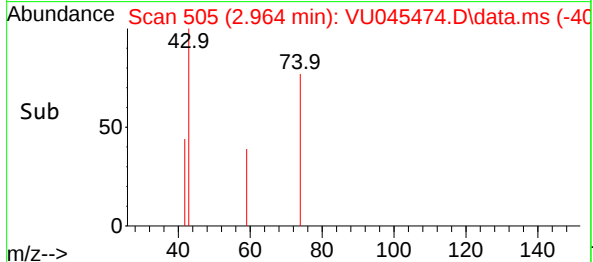
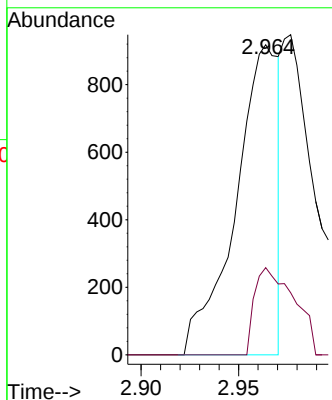
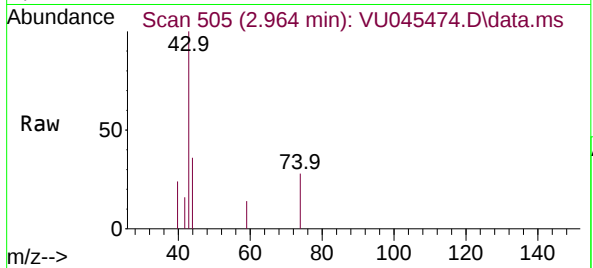




#18
Methyl Acetate
Concen: 0.233 ug/l
RT: 2.964 min Scan# 502
Delta R.T. 0.010 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

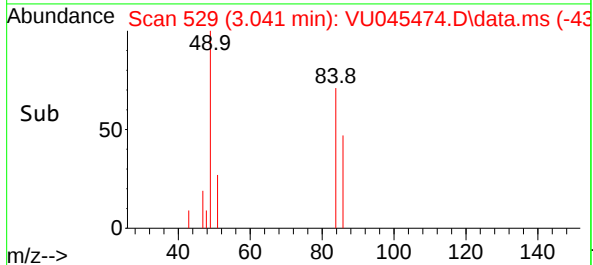
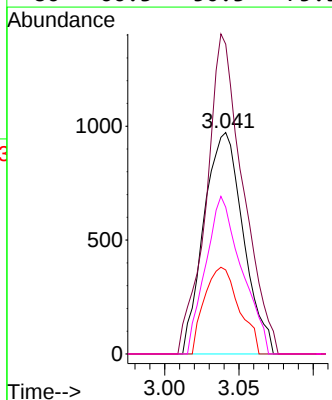
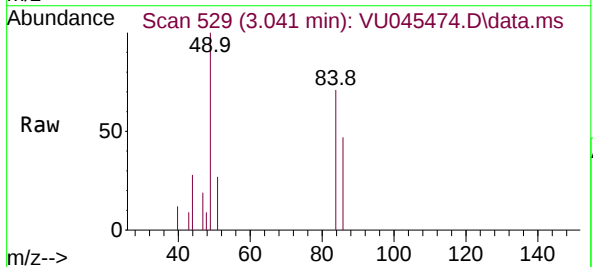
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MSVOA_U
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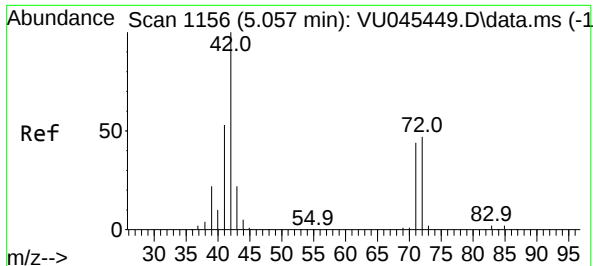
Tgt Ion: 43 Resp: 1405
Ion Ratio Lower Upper
43 100
74 26.0 20.2 30.2



#20
Methylene Chloride
Concen: 0.557 ug/l
RT: 3.041 min Scan# 529
Delta R.T. -0.010 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 84 Resp: 1795
Ion Ratio Lower Upper
84 100
49 139.9 96.4 144.6
51 38.0 30.5 45.7
86 66.3 50.3 75.5





#29

Tetrahydrofuran

Concen: 1.626 ug/l

RT: 5.076 min Scan# 1162

Delta R.T. 0.019 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :

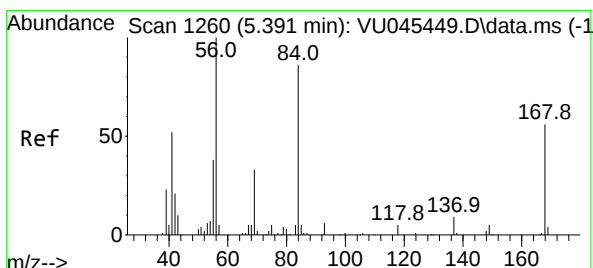
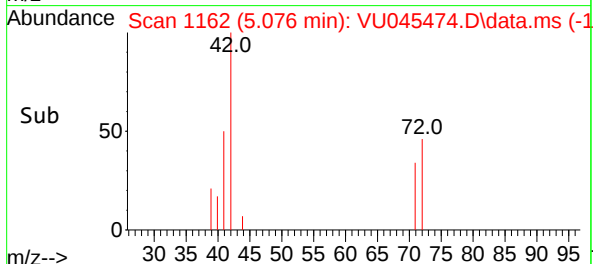
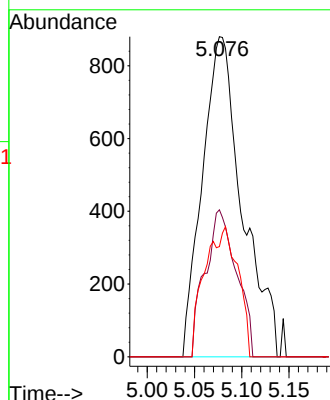
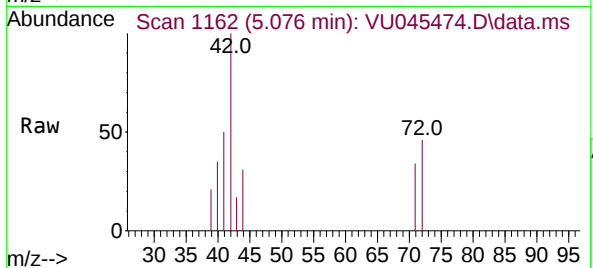
Tgt Ion: 42 Resp: 2577

Ion Ratio Lower Upper

42 100

72 36.2 38.2 57.4#

71 14.5 35.4 53.2#



#31

Cyclohexane

Concen: 1.103 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.016 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

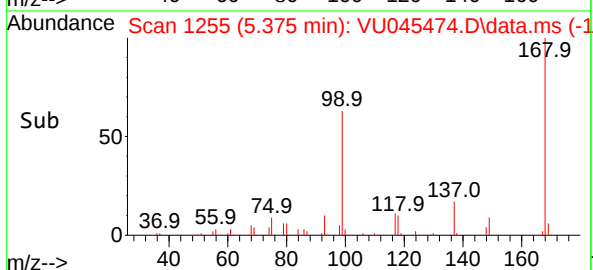
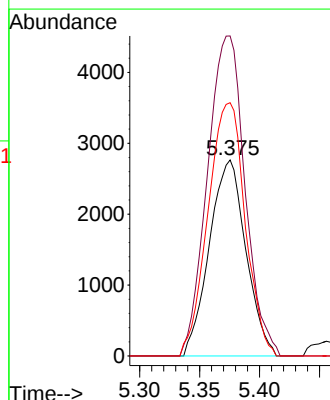
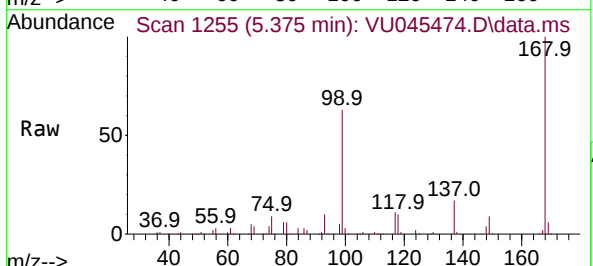
Tgt Ion: 56 Resp: 5853

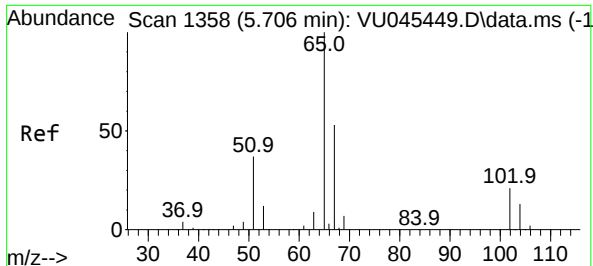
Ion Ratio Lower Upper

56 100

69 163.3 26.4 39.6#

84 129.2 68.4 102.6#





#33

1,2-Dichloroethane-d4

Concen: 50.507 ug/l

RT: 5.703 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

Instrument :

MSVOA_U

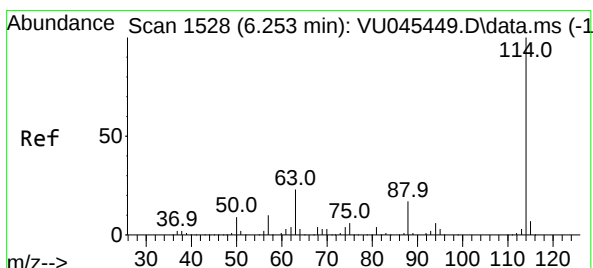
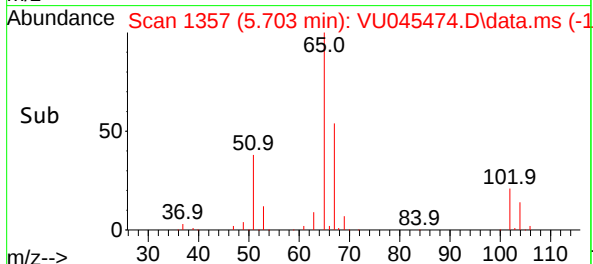
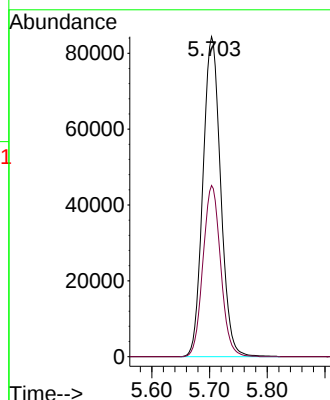
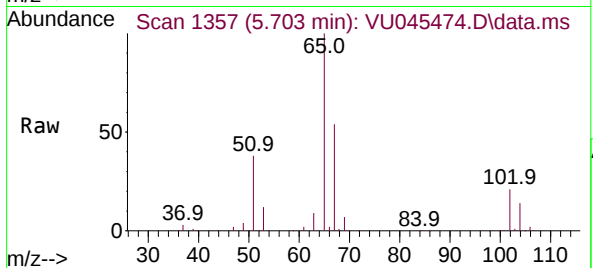
ClientSampleId :

Tgt Ion: 65 Resp: 180045

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. -0.003 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

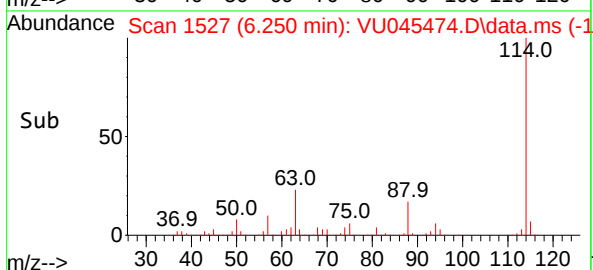
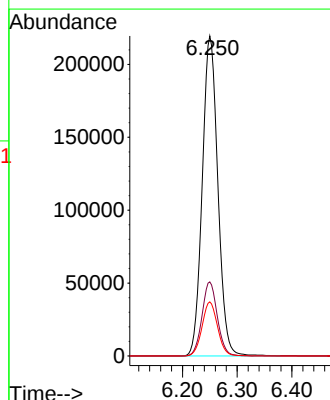
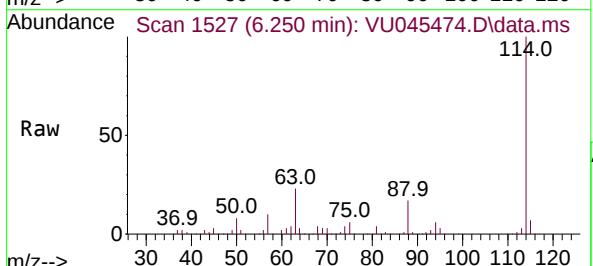
Tgt Ion: 114 Resp: 433803

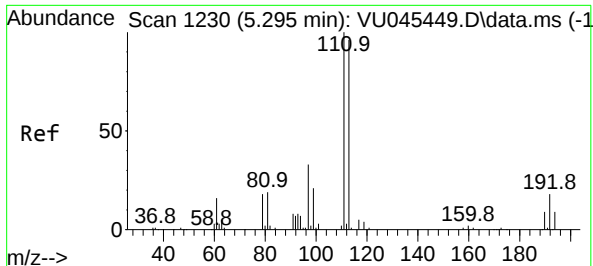
Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.6

88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 47.582 ug/l

RT: 5.292 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :

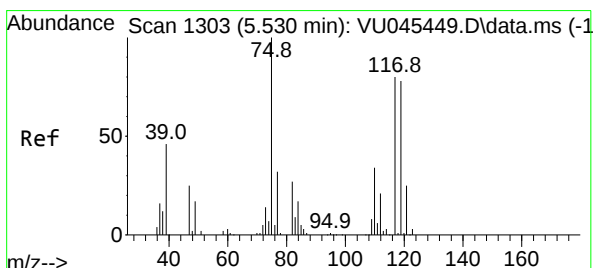
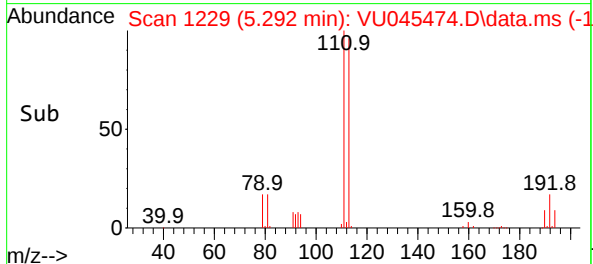
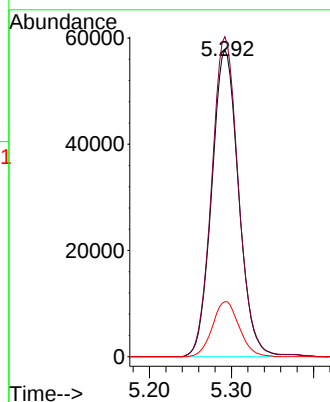
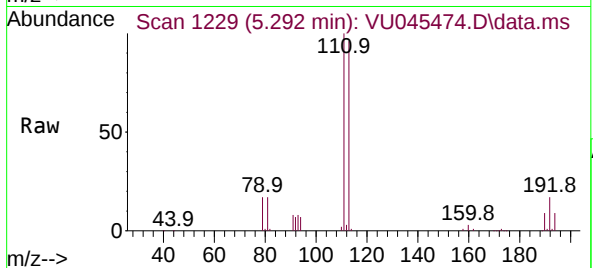
Tgt Ion:113 Resp: 131247

Ion Ratio Lower Upper

113 100

111 104.1 82.8 124.2

192 18.0 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.718 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.157 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

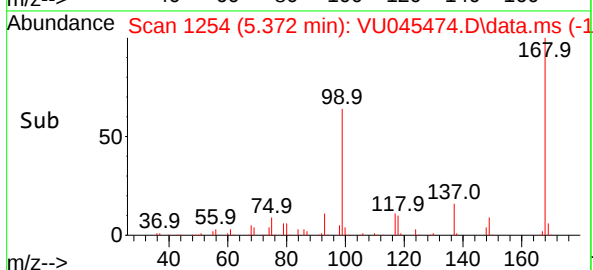
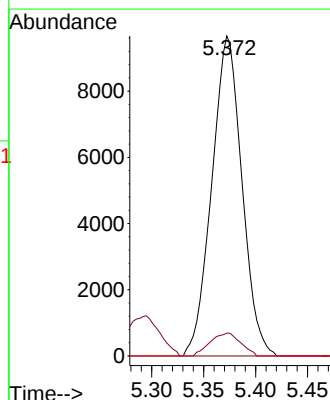
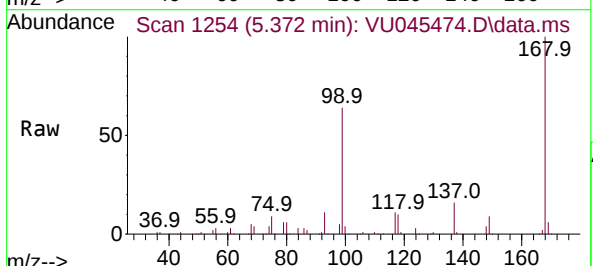
Tgt Ion: 75 Resp: 19484

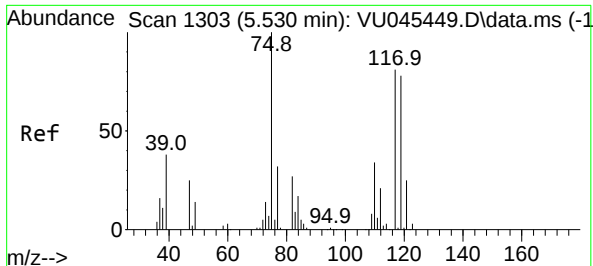
Ion Ratio Lower Upper

75 100

110 7.3 16.7 50.0#

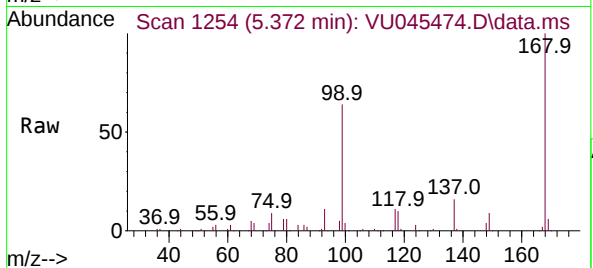
77 0.0 25.0 37.4#



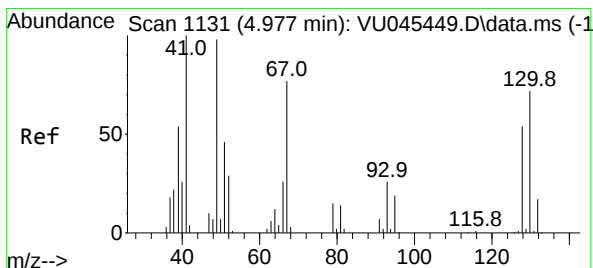
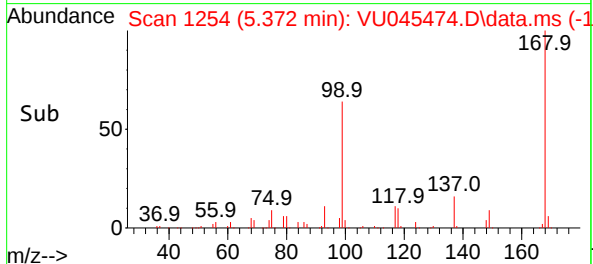
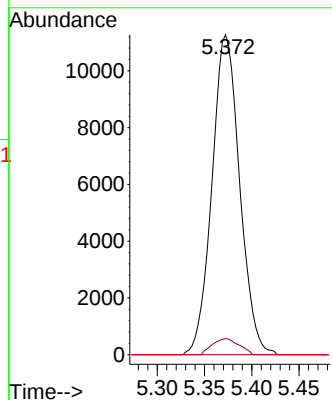


#38
Carbon Tetrachloride
Concen: 6.380 ug/l
RT: 5.372 min Scan# 1161
Delta R.T. -0.157 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Instrument :
MSVOA_U
ClientSampleId :

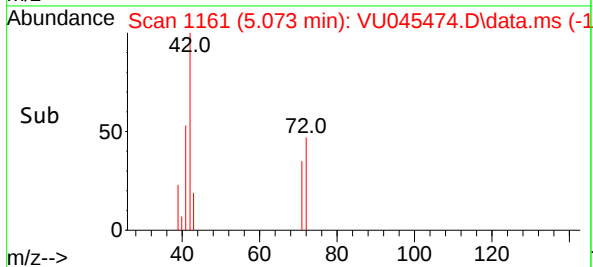
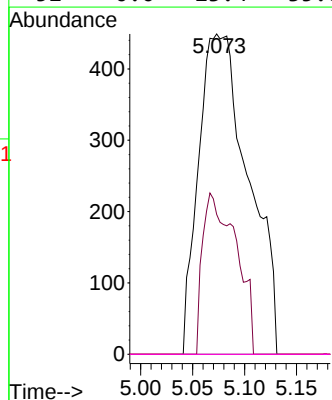
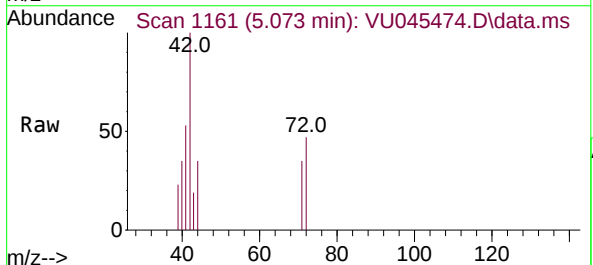


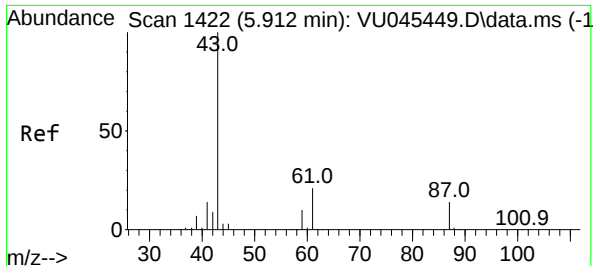
Tgt Ion:117 Resp: 22977
Ion Ratio Lower Upper
117 100
119 5.0 77.4 116.0#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.567 ug/l
RT: 5.073 min Scan# 1161
Delta R.T. 0.096 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 41 Resp: 1501
Ion Ratio Lower Upper
41 100
39 33.8 43.4 65.0#
67 0.0 61.0 91.4#
52 0.0 23.4 35.0#





#43

Isopropyl Acetate

Concen: 0.574 ug/l

RT: 5.977 min Scan# 14

Delta R.T. 0.064 min

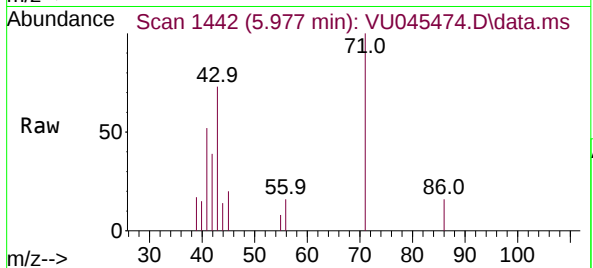
Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

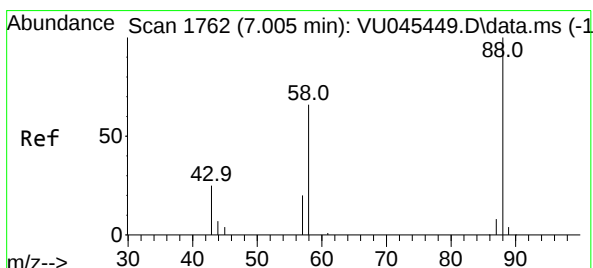
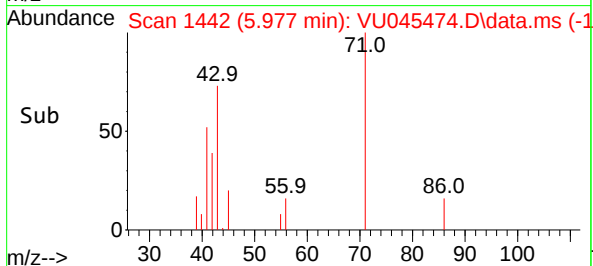
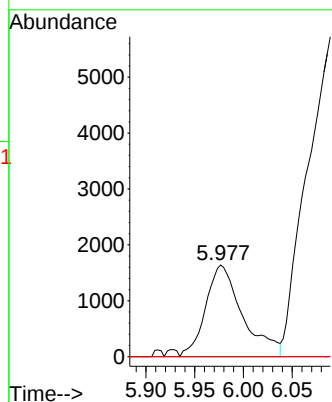
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	43	Resp:	4325
Ion	Ratio	Lower	Upper
43	100		
61	0.0	16.9	25.3#
87	0.0	11.0	16.4#



#49

1,4-Dioxane

Concen: 0.738 ug/l

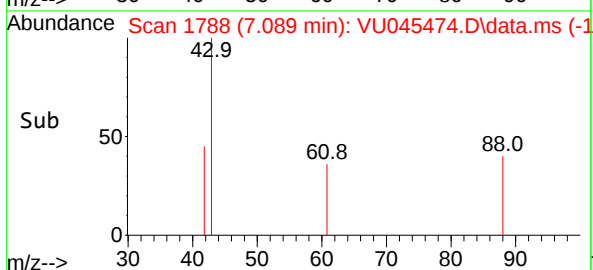
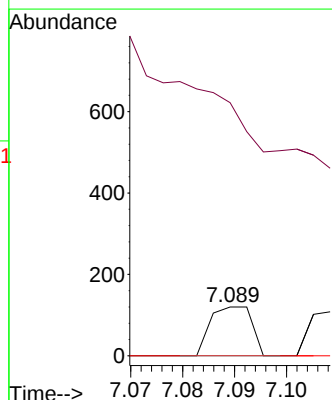
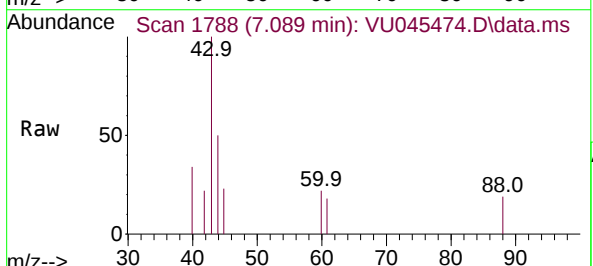
RT: 7.089 min Scan# 1788

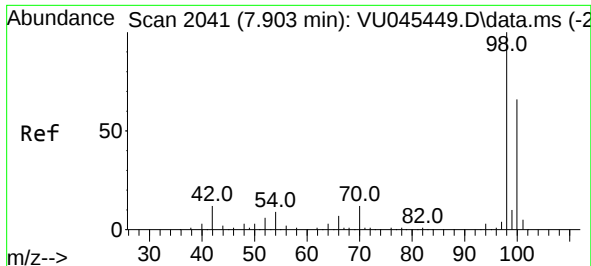
Delta R.T. 0.084 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

Tgt Ion:	88	Resp:	67
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	0.0	58.7	88.1#

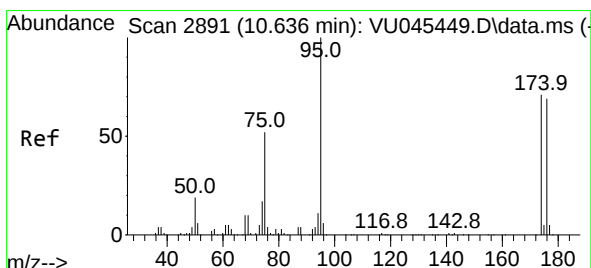
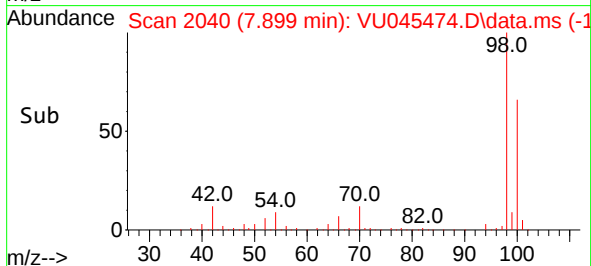
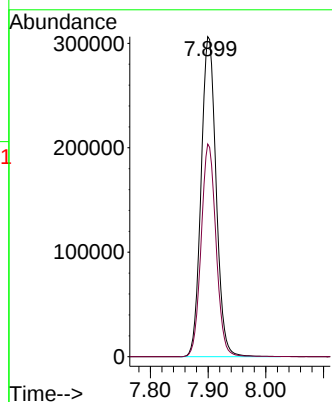
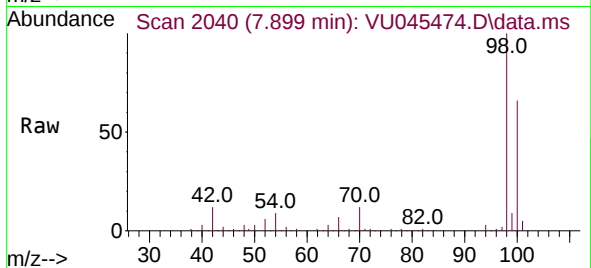




#50
Toluene-d8
Concen: 51.056 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. -0.003 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

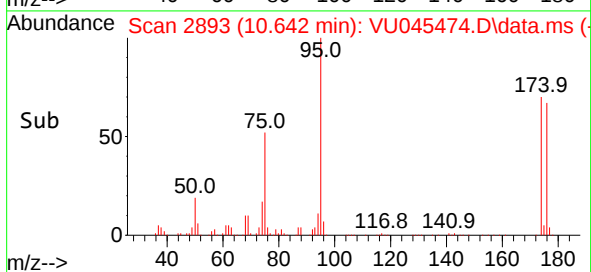
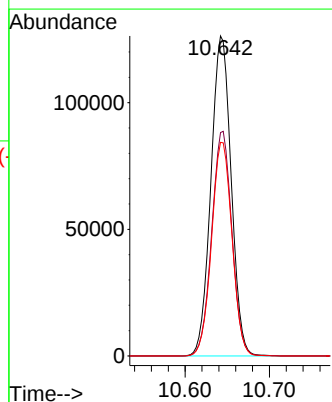
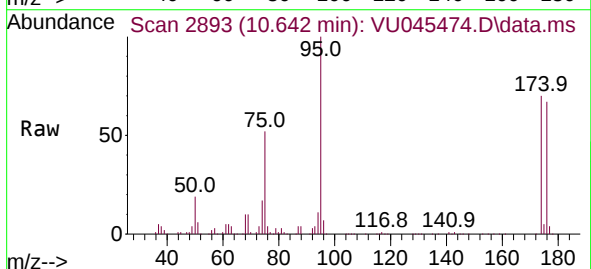
Instrument :
MSVOA_U
ClientSampleId :

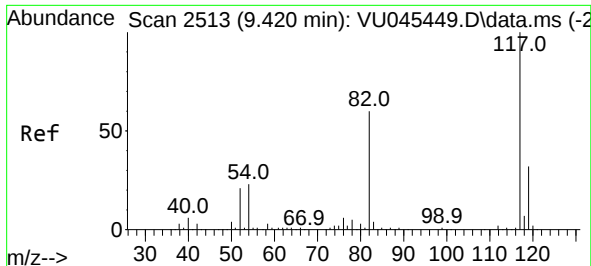
Tgt Ion: 98 Resp: 552250
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#62
4-Bromofluorobenzene
Concen: 51.169 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. 0.006 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 95 Resp: 210906
Ion Ratio Lower Upper
95 100
174 70.0 0.0 141.8
176 67.3 0.0 138.2

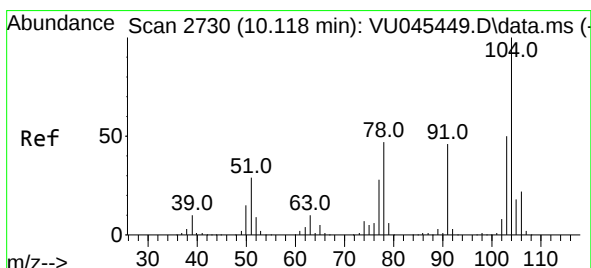
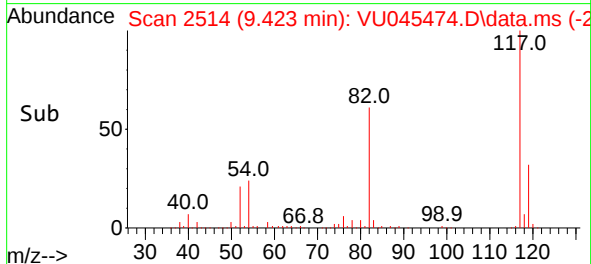
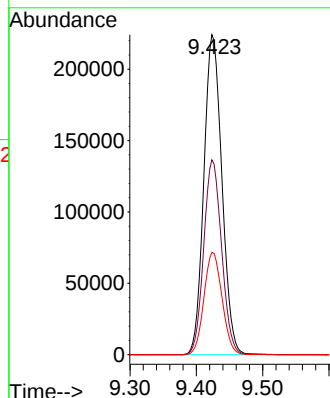
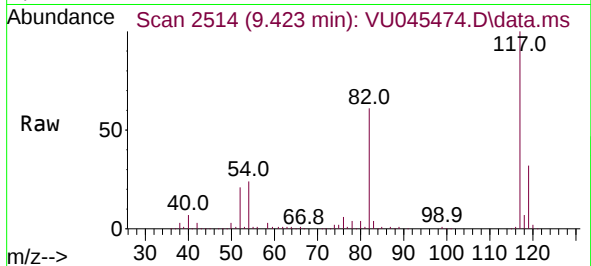




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.423 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

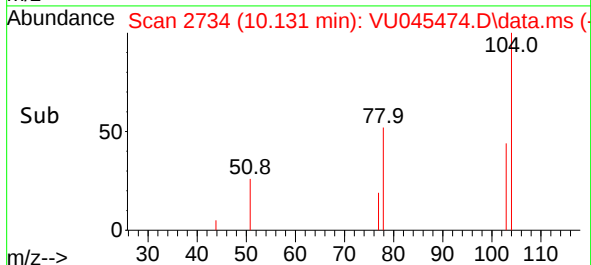
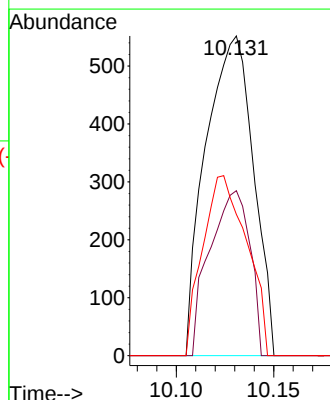
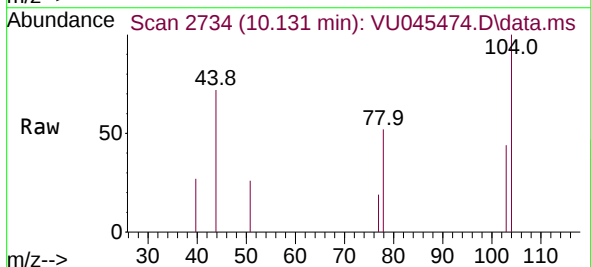
Instrument :
MSVOA_U
ClientSampleId :

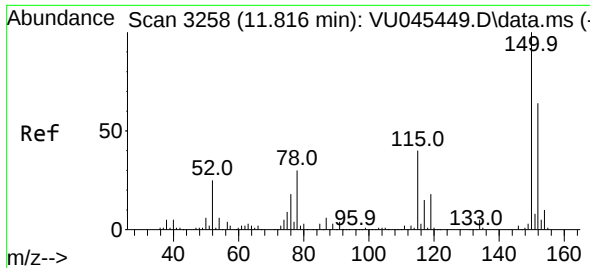
Tgt Ion:117 Resp: 423745
Ion Ratio Lower Upper
117 100
82 60.9 47.8 71.8
119 31.9 25.8 38.8



#70
Styrene
Concen: 1.068 ug/l
RT: 10.131 min Scan# 2734
Delta R.T. 0.013 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion:104 Resp: 939
Ion Ratio Lower Upper
104 100
78 43.6 41.8 62.6
103 52.2 43.8 65.6

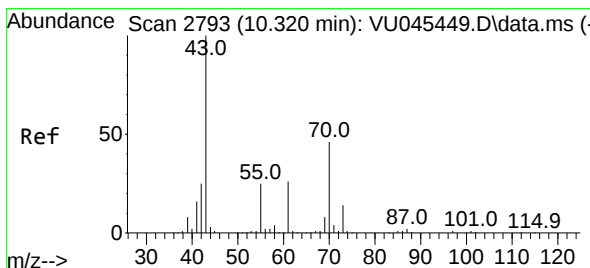
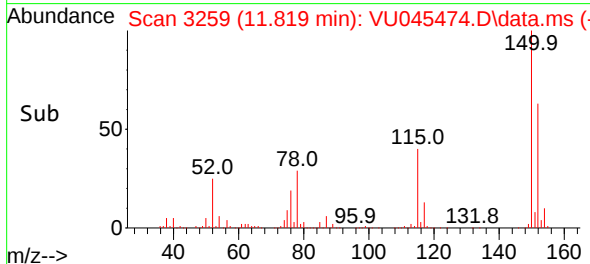
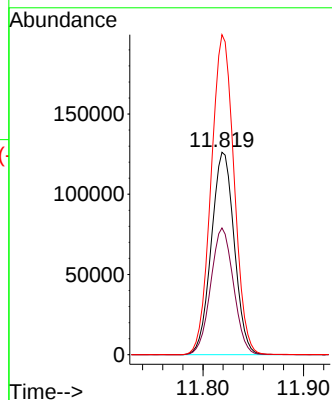
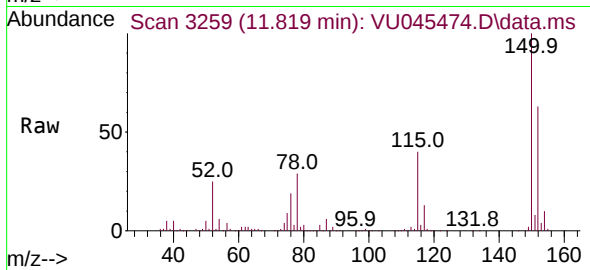




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.819 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

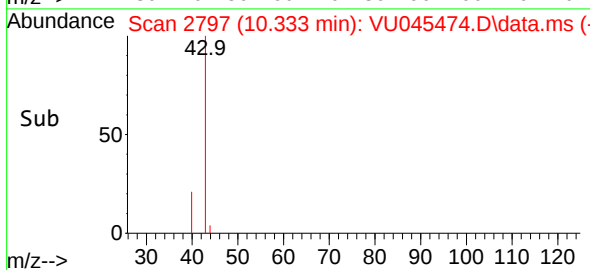
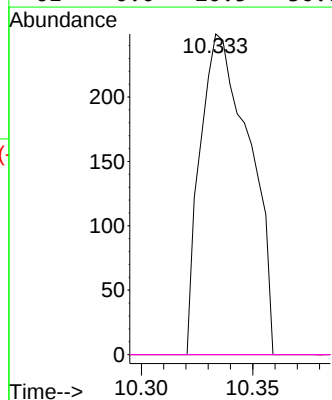
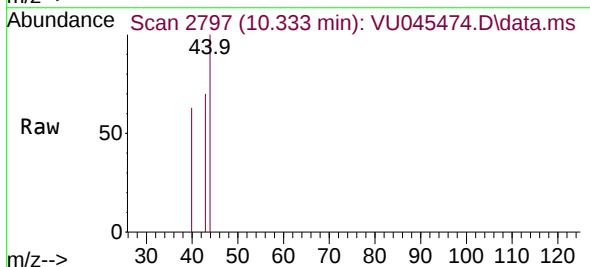
Instrument :
MSVOA_U
ClientSampleId :

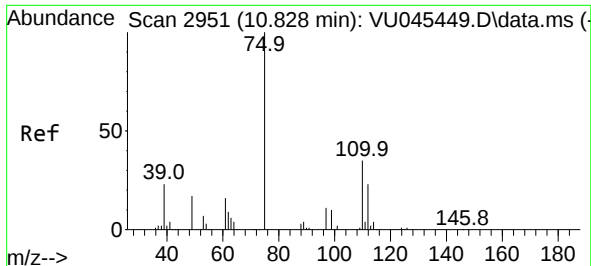
Tgt Ion:152 Resp: 200002
Ion Ratio Lower Upper
152 100
115 62.3 42.7 128.1
150 158.2 0.0 346.8



#74
N-ethyl acetate
Concen: 1.209 ug/l
RT: 10.333 min Scan# 2797
Delta R.T. 0.013 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 43 Resp: 383
Ion Ratio Lower Upper
43 100
70 0.0 36.9 55.3#
55 0.0 20.6 31.0#
61 0.0 20.5 30.7#

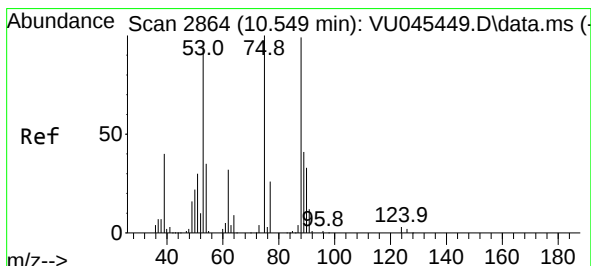
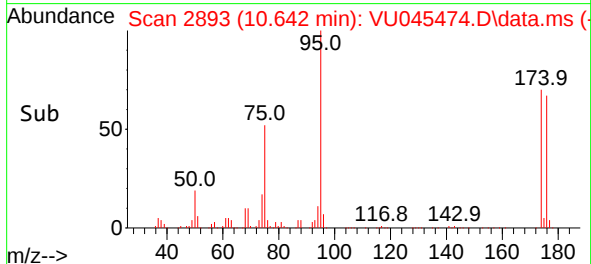
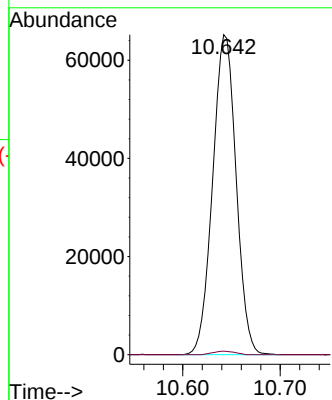
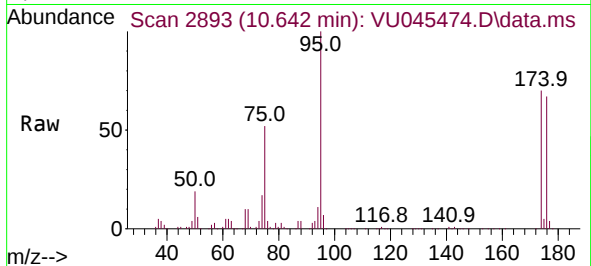




#76
1,2,3-Trichloropropane
Concen: 20.473 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. -0.186 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

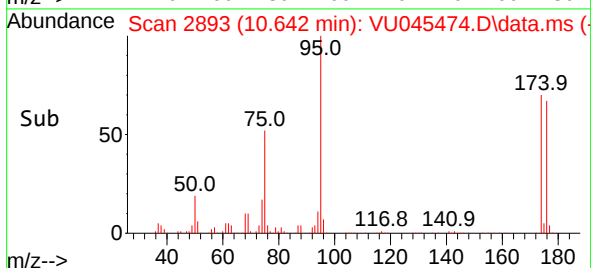
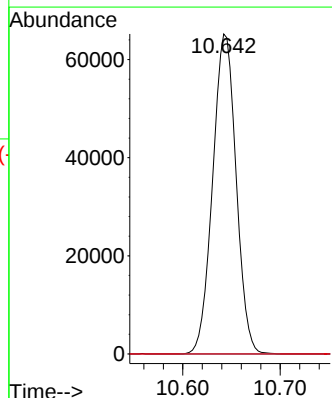
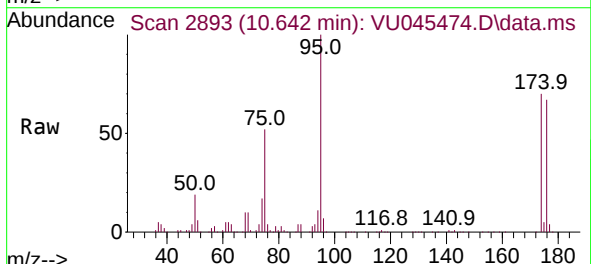
Instrument :
MSVOA_U
ClientSampleId :

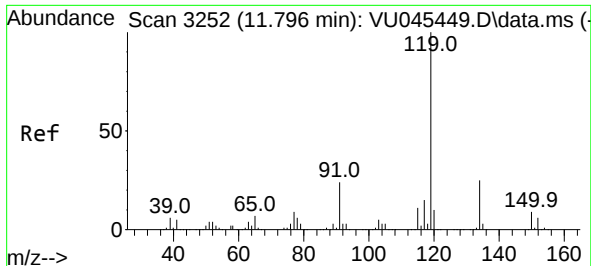
Tgt Ion: 75 Resp: 109099
Ion Ratio Lower Upper
75 100
77 1.0 17.1 51.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.801 ug/l
RT: 10.642 min Scan# 2893
Delta R.T. 0.093 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 75 Resp: 109099
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#

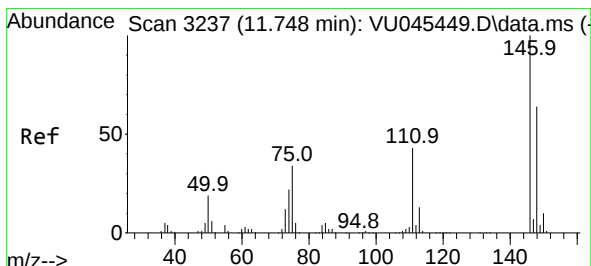
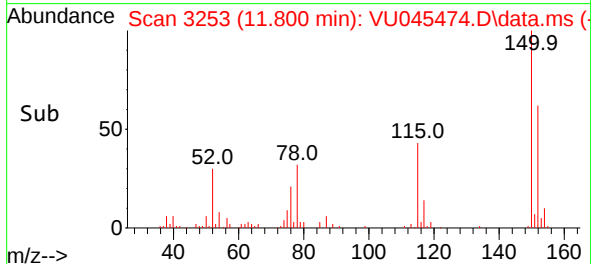
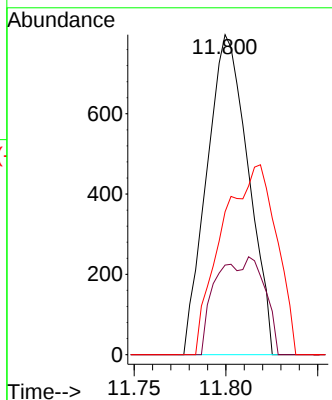
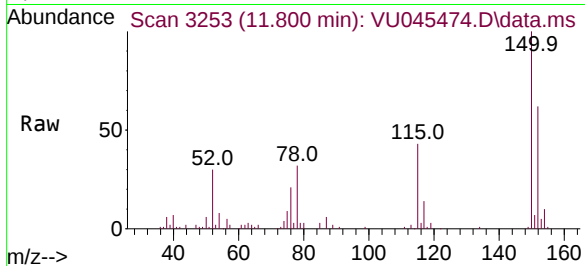




#86
p-Isopropyltoluene
Concen: 0.286 ug/l
RT: 11.800 min Scan# 31
Delta R.T. 0.004 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

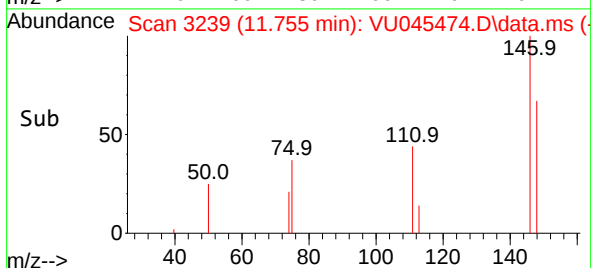
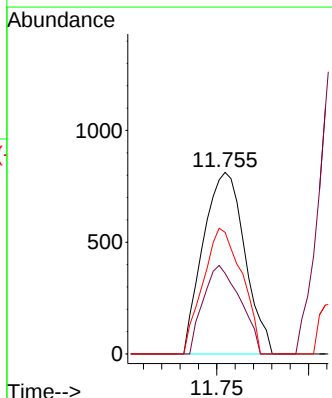
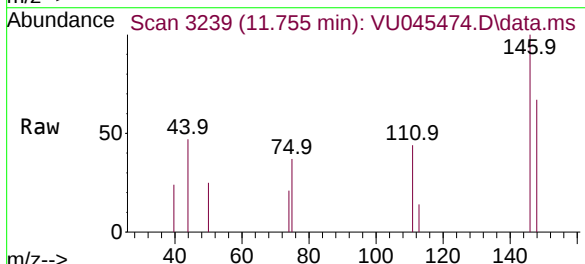
Instrument :
MSVOA_U
ClientSampleId :

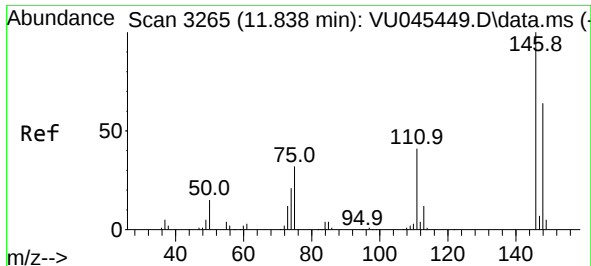
Tgt Ion:119 Resp: 1249
Ion Ratio Lower Upper
119 100
134 17.9 12.7 38.1
91 77.9 12.2 36.4#



#87
1,3-Dichlorobenzene
Concen: 0.206 ug/l
RT: 11.755 min Scan# 3239
Delta R.T. 0.006 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion:146 Resp: 1282
Ion Ratio Lower Upper
146 100
111 43.2 21.3 63.9
148 64.5 31.7 95.1

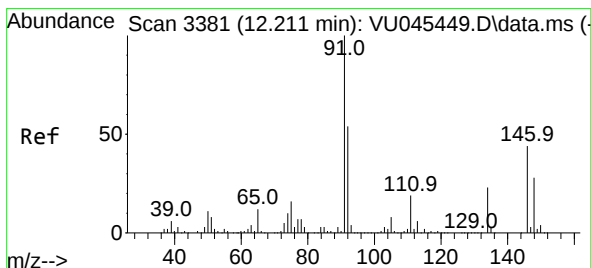
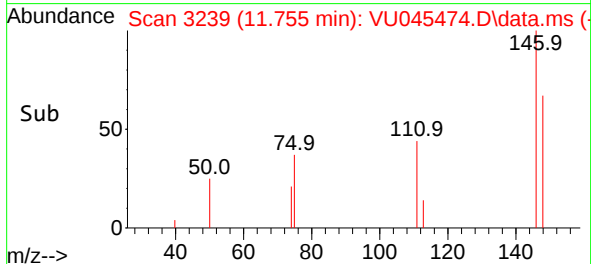
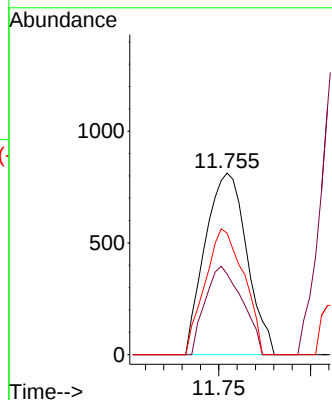
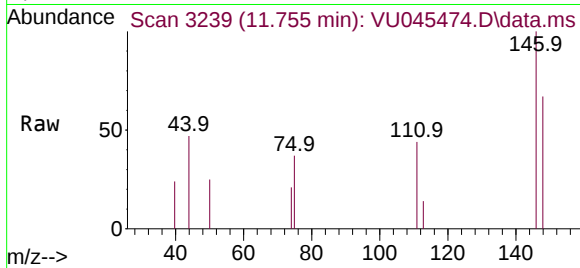




#88
1,4-Dichlorobenzene
Concen: 0.202 ug/l
RT: 11.755 min Scan# 31
Delta R.T. -0.084 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

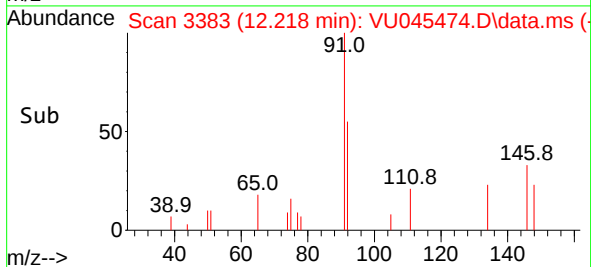
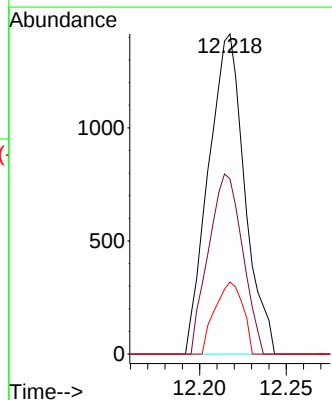
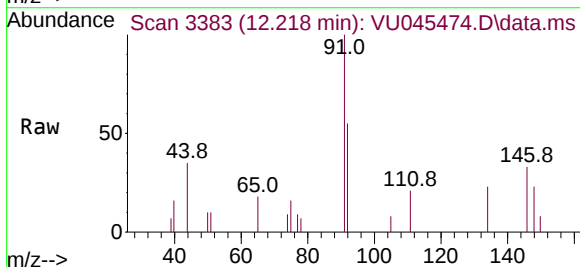
Instrument :
MSVOA_U
ClientSampleId :

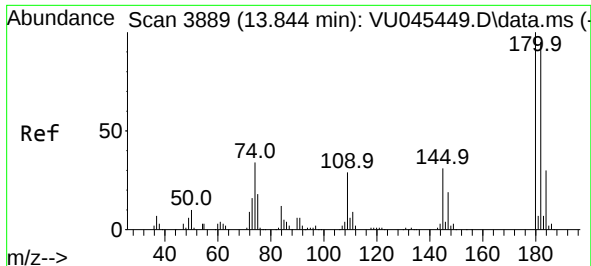
Tgt Ion:146 Resp: 1282
Ion Ratio Lower Upper
146 100
111 43.2 20.6 61.9
148 64.5 31.9 95.7



#89
n-Butylbenzene
Concen: 1.100 ug/l
RT: 12.218 min Scan# 3383
Delta R.T. 0.007 min
Lab File: VU045474.D
Acq: 29 Oct 2021 19:13

Tgt Ion: 91 Resp: 2056
Ion Ratio Lower Upper
91 100
92 52.8 27.1 81.2
134 17.3 11.8 35.4





#93

1,2,4-Trichlorobenzene

Concen: 0.366 ug/l

RT: 13.844 min Scan# 3889

Delta R.T. 0.000 min

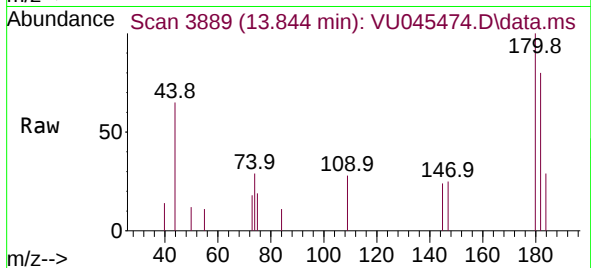
Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :



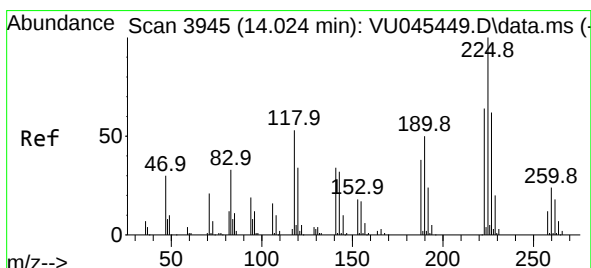
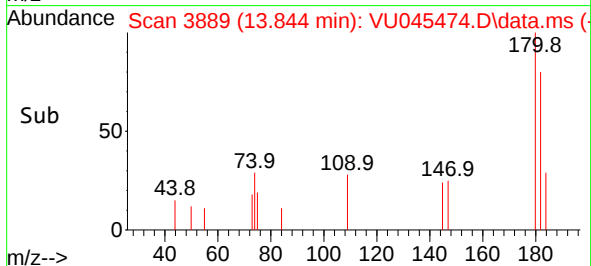
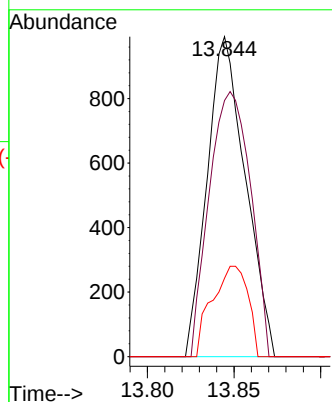
Tgt Ion:180 Resp: 1522

Ion Ratio Lower Upper

180 100

182 89.4 47.0 141.2

145 26.4 15.6 46.7



#94

Hexachlorobutadiene

Concen: 0.283 ug/l

RT: 14.028 min Scan# 3946

Delta R.T. 0.003 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

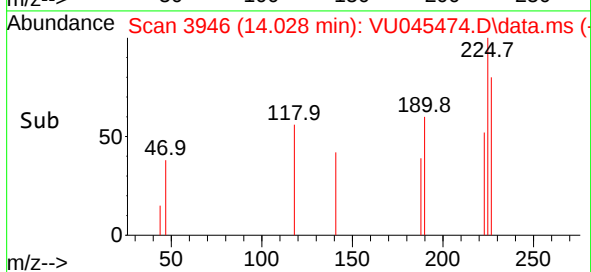
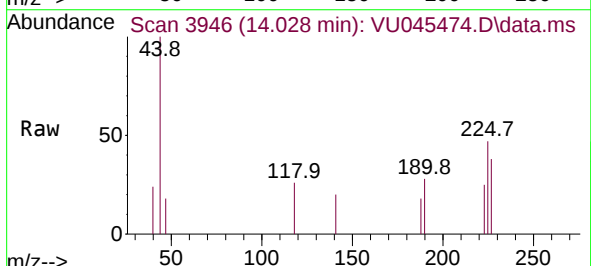
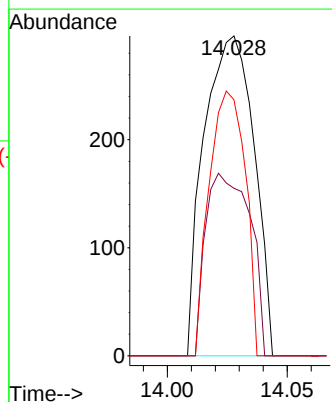
Tgt Ion:225 Resp: 428

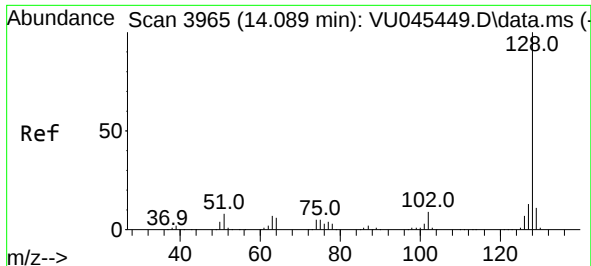
Ion Ratio Lower Upper

225 100

223 50.9 32.0 96.2

227 59.8 31.1 93.5





#95

Naphthalene

Concen: 0.389 ug/l

RT: 14.095 min Scan# 3967

Delta R.T. 0.006 min

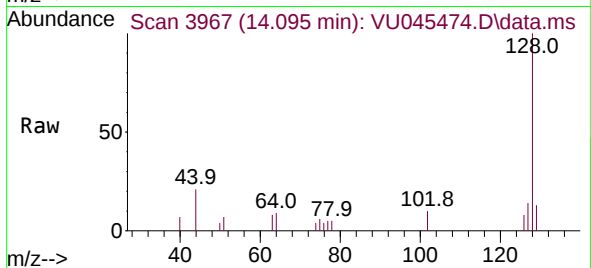
Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

Instrument :

MSVOA_U

ClientSampleId :



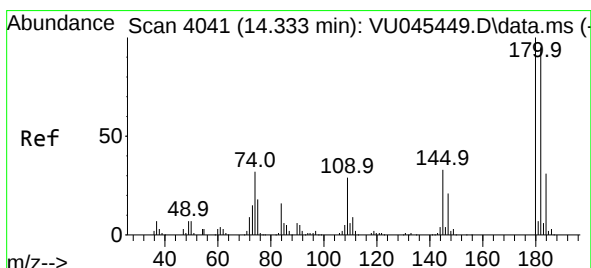
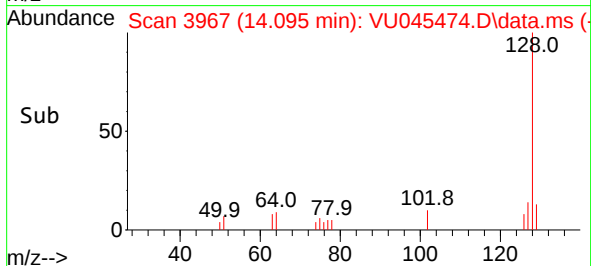
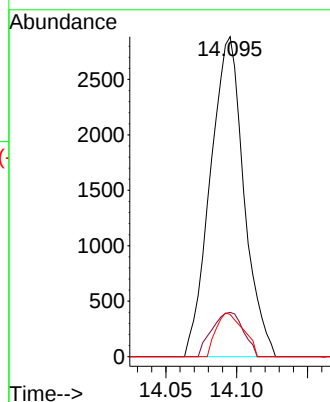
Tgt Ion:128 Resp: 4753

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

129 11.1 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 0.370 ug/l

RT: 14.336 min Scan# 4042

Delta R.T. 0.003 min

Lab File: VU045474.D

Acq: 29 Oct 2021 19:13

Tgt Ion:180 Resp: 1550

Ion Ratio Lower Upper

180 100

182 89.2 47.7 143.1

145 29.2 16.7 50.0

