

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121923\
 Data File : VD077977.D
 Acq On : 19 Dec 2023 16:39
 Operator : RP/MD
 Sample : 05886-03
 Misc : 5.05G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 20 02:06:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 14:48:10 2023
 Response via : Initial Calibration

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

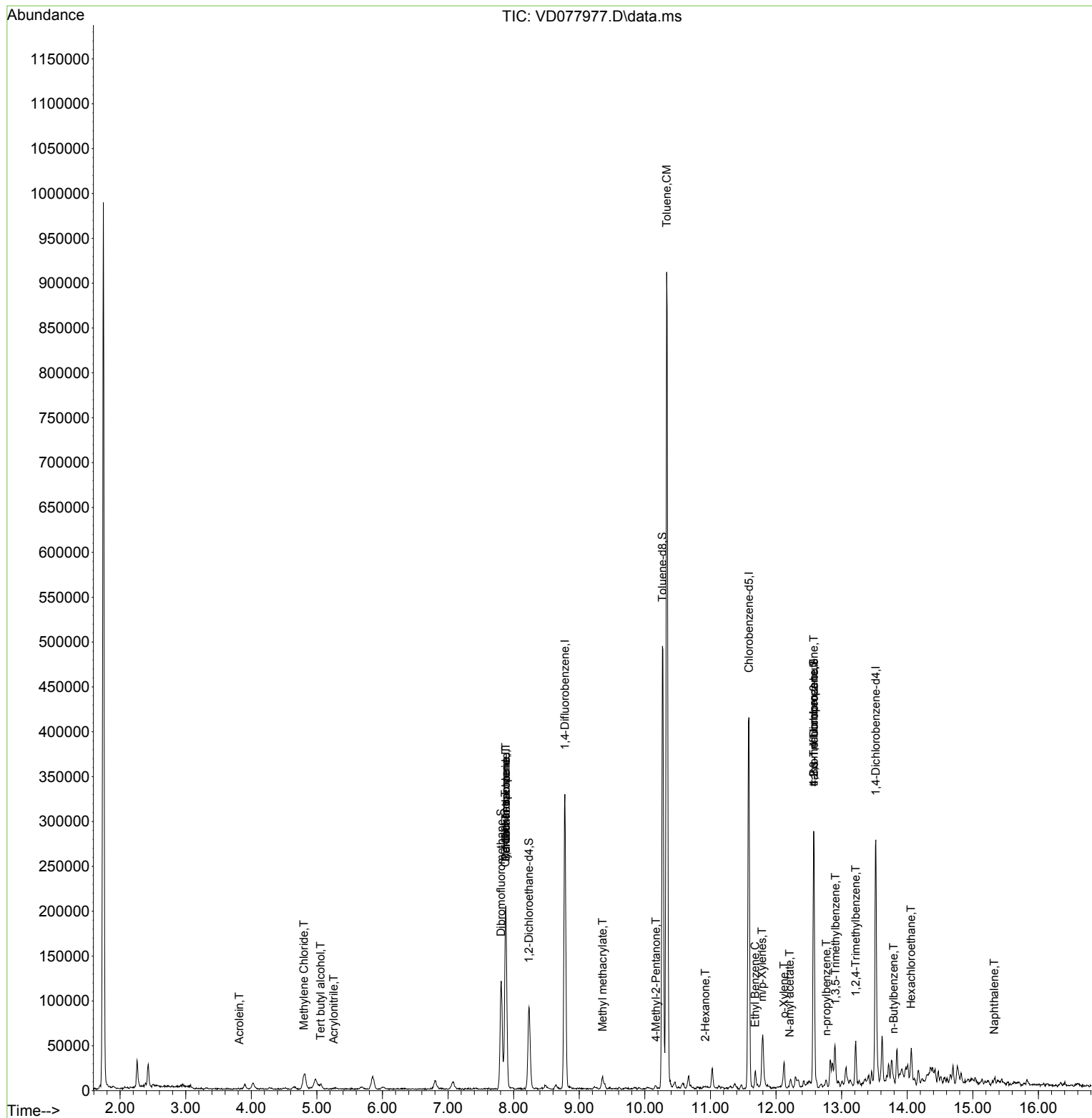
Internal Standards						
1) Pentafluorobenzene	7.881	168	157698	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	293773	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.586	117	243302	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	73783	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	70419	37.895	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	75.800%
35) Dibromofluoromethane	7.810	113	86437	42.005	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	84.020%
50) Toluene-d8	10.269	98	348882	42.331	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.660%
62) 4-Bromofluorobenzene	12.575	95	82816	33.610	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	67.220%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.057	59	9635	100.950	ug/l	# 87
13) Acrolein	3.816	56	490	2.493	ug/l	87
15) Acrylonitrile	5.257	53	494	1.224	ug/l	# 80
16) Acetone	4.022	43	10924	Below Cal	#	80
20) Methylene Chloride	4.804	84	14113	1.737	ug/l	86
25) 2-Butanone	7.087	43	4592	Below Cal	#	78
31) Cyclohexane	7.875	56	4024	1.217	ug/l	# 44
36) 1,1-Dichloropropene	7.881	75	12644	3.841	ug/l	# 47
38) Carbon Tetrachloride	7.881	117	16002	4.877	ug/l	# 17
48) Methyl methacrylate	9.357	41	6323	4.875	ug/l	# 15
51) 4-Methyl-2-Pentanone	10.169	43	2503	2.150	ug/l	91
52) Toluene	10.334	92	394174	68.020	ug/l	98
59) 2-Hexanone	10.922	43	1500	1.553	ug/l	65
65) Chlorobenzene	11.381	112	58	Below Cal	#	43
67) Ethyl Benzene	11.681	91	11957	1.180	ug/l	93
68) m/p-Xylenes	11.786	106	14706	3.796	ug/l	99
69) o-Xylene	12.122	106	6944	1.945	ug/l	88
74) N-amyl acetate	12.210	43	2860	2.602	ug/l	# 65
76) 1,2,3-Trichloropropane	12.575	75	43991	68.649	ug/l	# 100
78) n-propylbenzene	12.769	91	6878	1.009	ug/l	100
80) 1,3,5-Trimethylbenzene	12.904	105	5754	1.234	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.575	75	43991	139.088	ug/l	# 17
84) 1,2,4-Trimethylbenzene	13.216	105	26306	5.639	ug/l	97
89) n-Butylbenzene	13.792	91	5956	1.215	ug/l	# 64
90) Hexachloroethane	14.057	117	2050	2.139	ug/l	# 11
92) 1,2-Dibromo-3-Chloropr...	14.380	75	55	Below Cal	#	1
95) Naphthalene	15.327	128	5239	2.018	ug/l	# 87

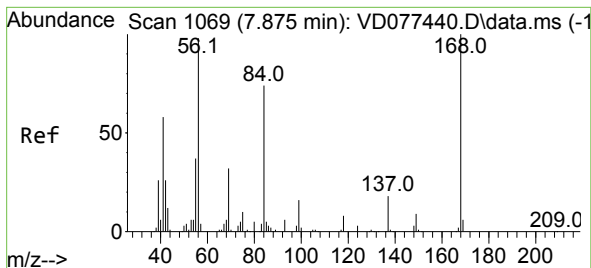
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 14 14:48:10 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD077977.D

Acq: 19 Dec 2023 16:39

Instrument :

MSVOA_D

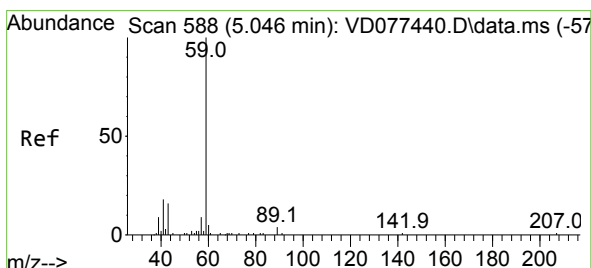
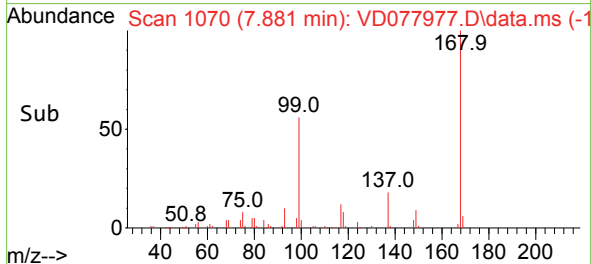
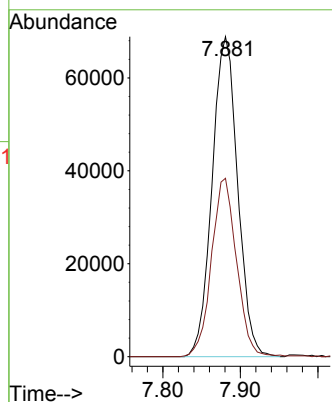
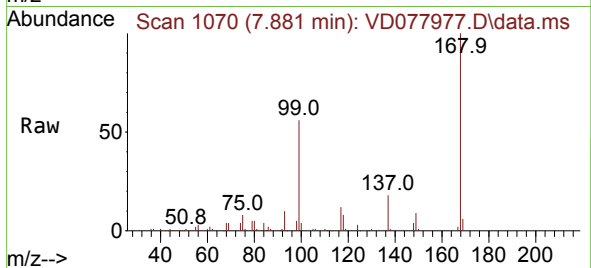
ClientSampleId :

Tgt Ion:168 Resp: 157698

Ion Ratio Lower Upper

168 100

99 55.8 36.7 55.1#



#11

Tert butyl alcohol

Concen: 100.950 ug/l

RT: 5.057 min Scan# 590

Delta R.T. 0.011 min

Lab File: VD077977.D

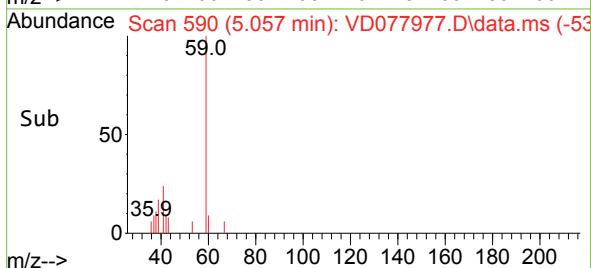
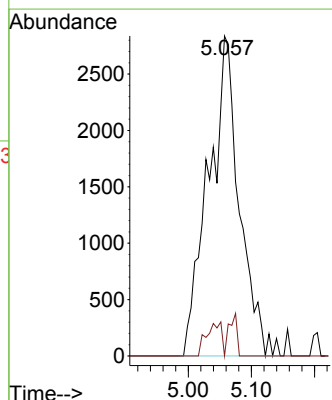
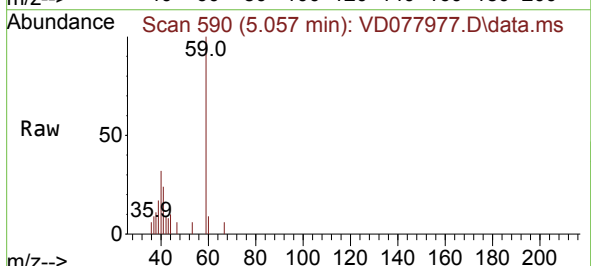
Acq: 19 Dec 2023 16:39

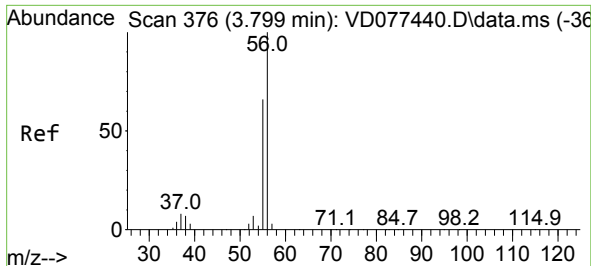
Tgt Ion: 59 Resp: 9635

Ion Ratio Lower Upper

59 100

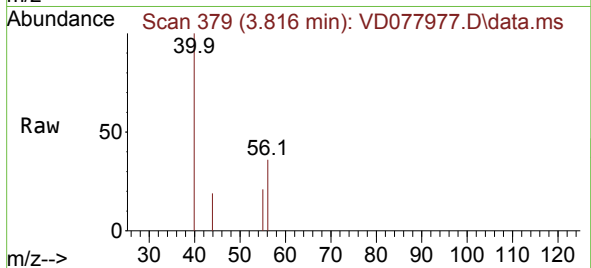
57 5.1 7.8 11.8#



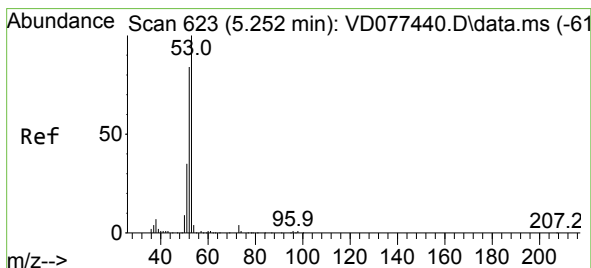
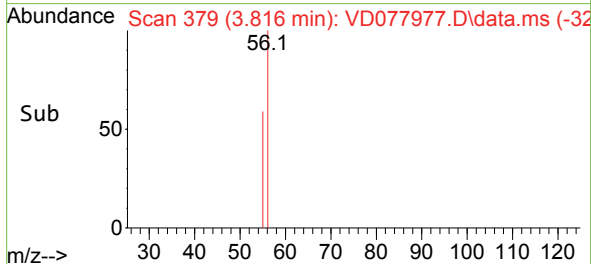
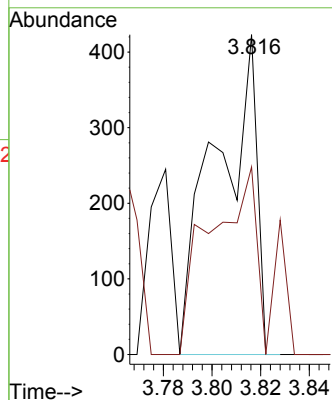


#13
Acrolein
Concen: 2.493 ug/l
RT: 3.816 min Scan# 31
Delta R.T. 0.017 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Instrument :
MSVOA_D
ClientSampleId :

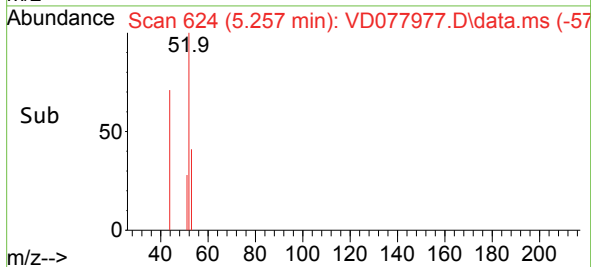
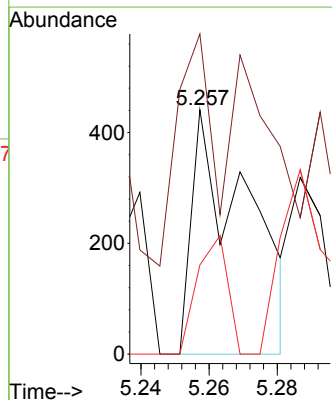
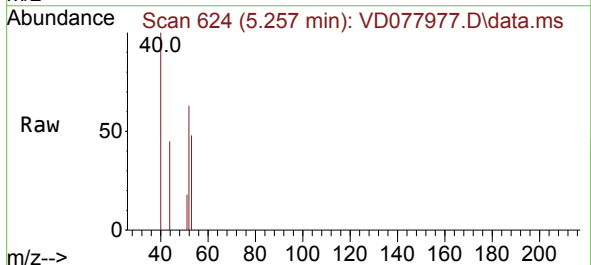


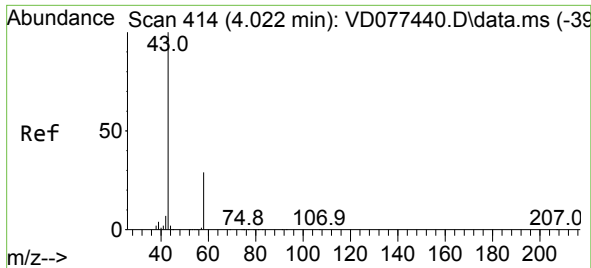
Tgt Ion: 56 Resp: 490
Ion Ratio Lower Upper
56 100
55 79.8 55.1 82.7



#15
Acrylonitrile
Concen: 1.224 ug/l
RT: 5.257 min Scan# 624
Delta R.T. 0.005 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion: 53 Resp: 494
Ion Ratio Lower Upper
53 100
52 60.9 65.0 97.4#
51 26.7 28.3 42.5#

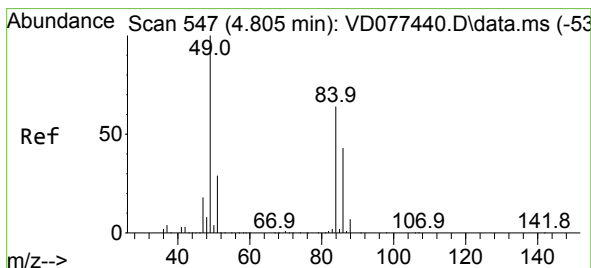
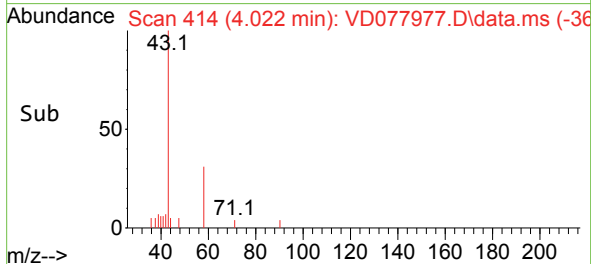
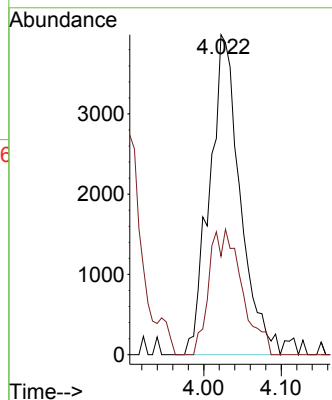
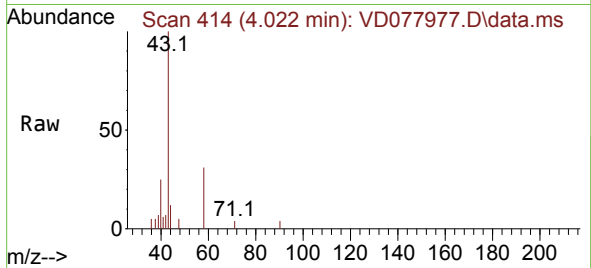




#16
Acetone
Concen: Below Cal
RT: 4.022 min Scan# 414
Delta R.T. 0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

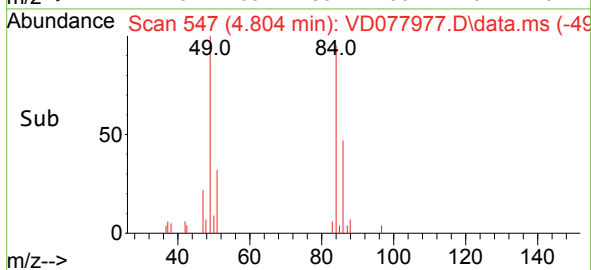
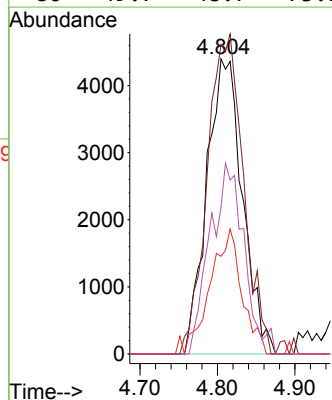
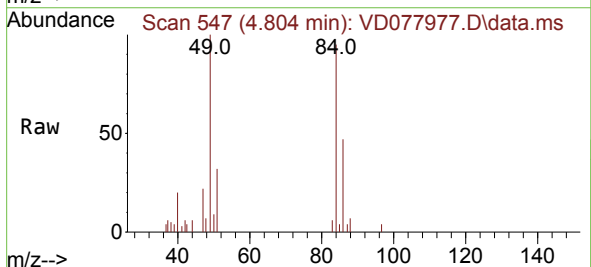
Instrument :
MSVOA_D
ClientSampleId :

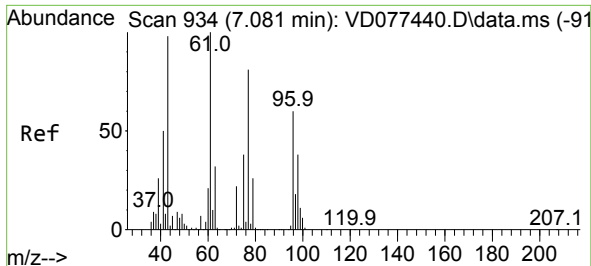
Tgt Ion: 43 Resp: 10924
Ion Ratio Lower Upper
43 100
58 30.7 34.7 52.1#



#20
Methylene Chloride
Concen: 1.737 ug/l
RT: 4.804 min Scan# 547
Delta R.T. -0.001 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

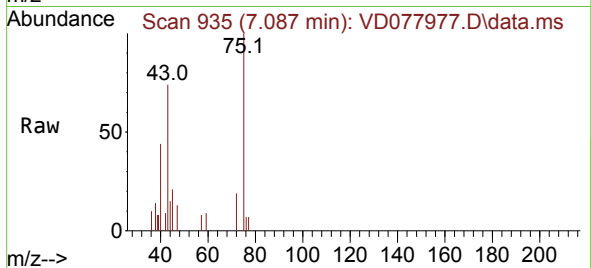
Tgt Ion: 84 Resp: 14113
Ion Ratio Lower Upper
84 100
49 104.9 71.4 107.2
51 33.1 24.5 36.7
86 49.7 48.7 73.1



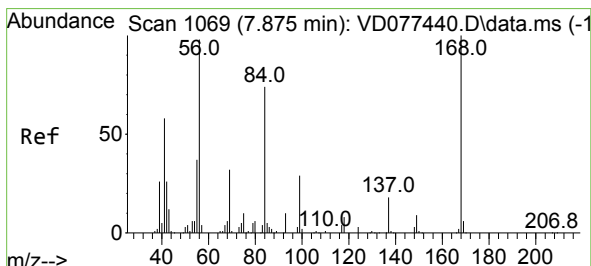
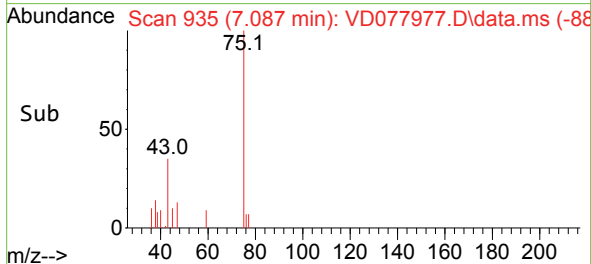
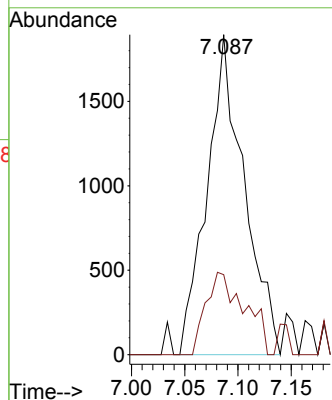


#25
2-Butanone
Concen: Below Cal
RT: 7.087 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Instrument :
MSVOA_D
ClientSampleId :

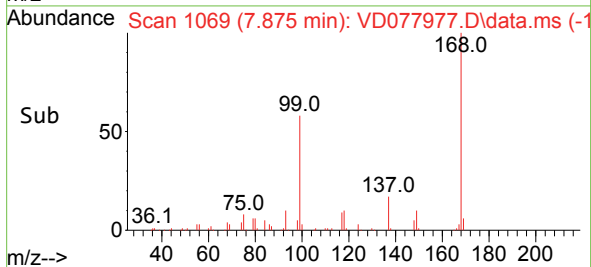
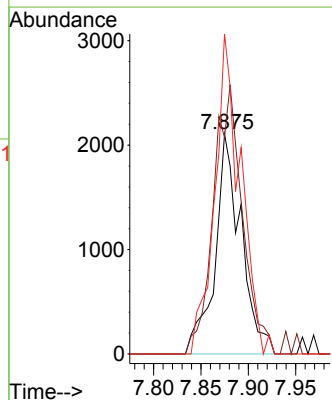
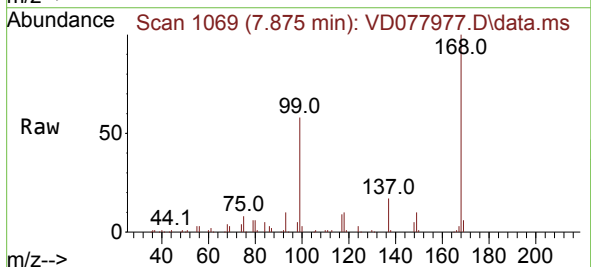


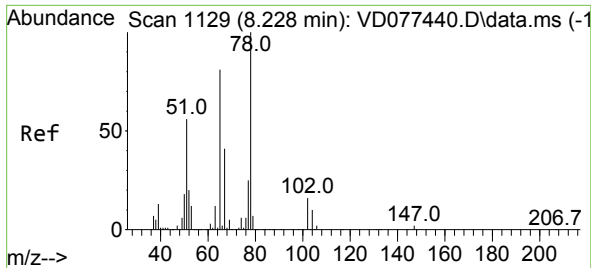
Tgt Ion: 43 Resp: 4592
Ion Ratio Lower Upper
43 100
72 25.0 30.7 46.1#



#31
Cyclohexane
Concen: 1.217 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion: 56 Resp: 4024
Ion Ratio Lower Upper
56 100
69 98.5 28.6 43.0#
84 145.5 84.8 127.2#

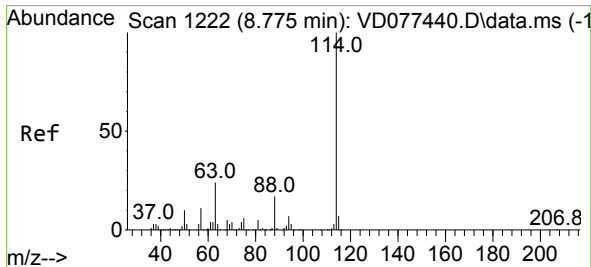
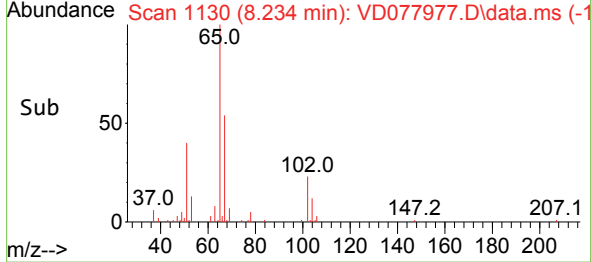
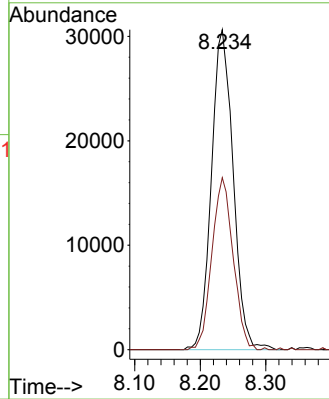
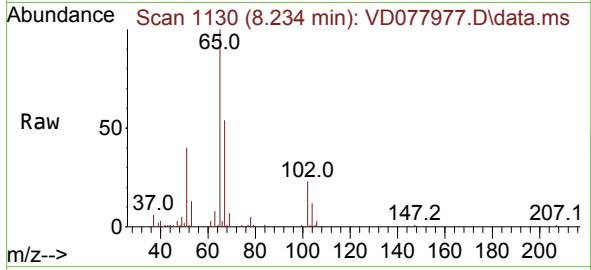




#33
 1,2-Dichloroethane-d4
 Concen: 37.895 ug/l
 RT: 8.234 min Scan# 1129
 Delta R.T. 0.006 min
 Lab File: VD077977.D
 Acq: 19 Dec 2023 16:39

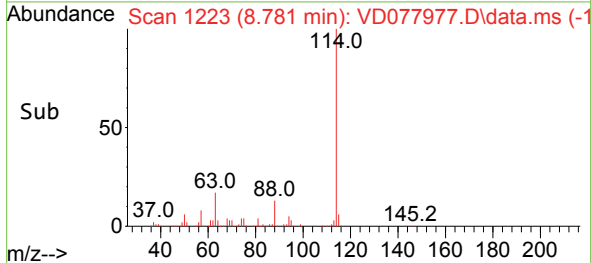
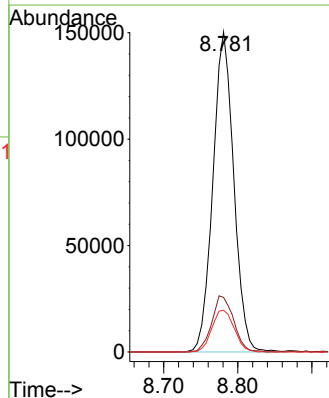
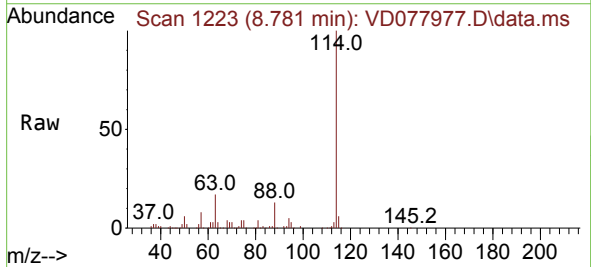
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 MSVOA_D
 ClientSampleId :

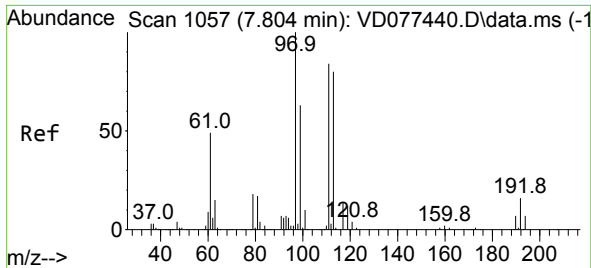
Tgt Ion: 65 Resp: 70419
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 115.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.781 min Scan# 1223
 Delta R.T. 0.006 min
 Lab File: VD077977.D
 Acq: 19 Dec 2023 16:39

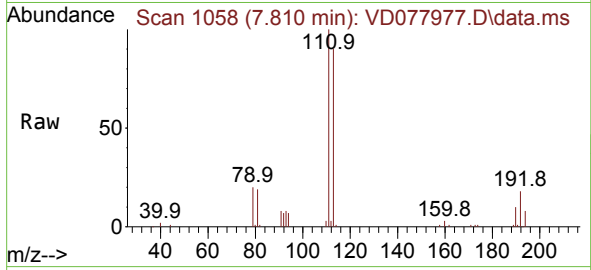
Tgt Ion: 114 Resp: 293773
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 33.4
 88 13.0 0.0 26.2



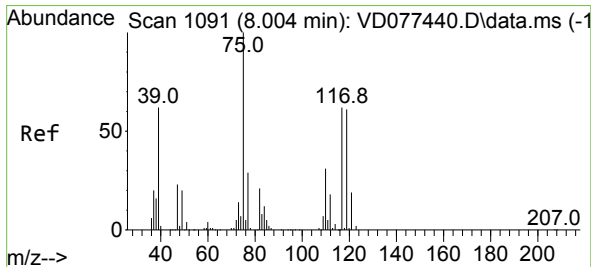
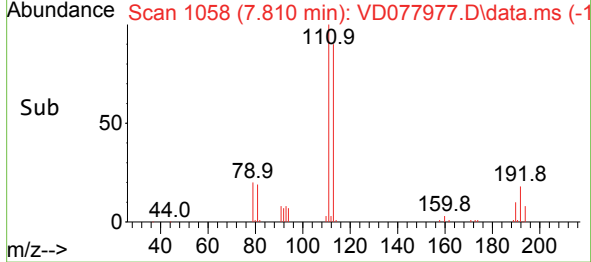
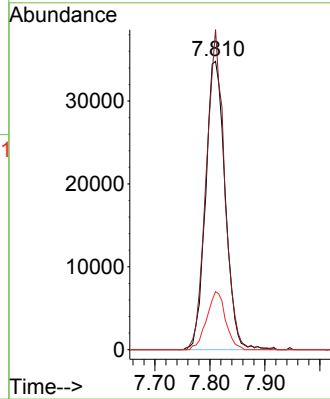


#35
Dibromofluoromethane
Concen: 42.005 ug/l
RT: 7.810 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Instrument :
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ClientSampleId :

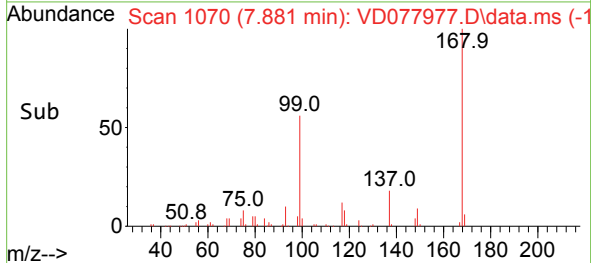
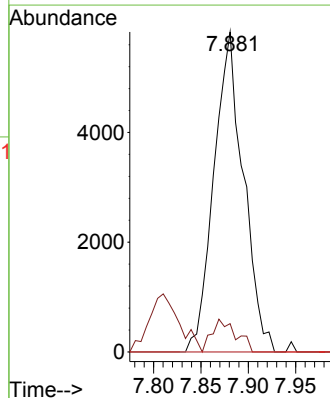
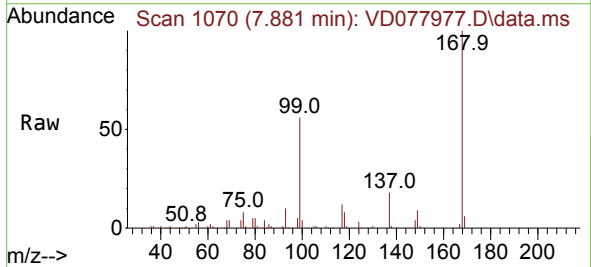


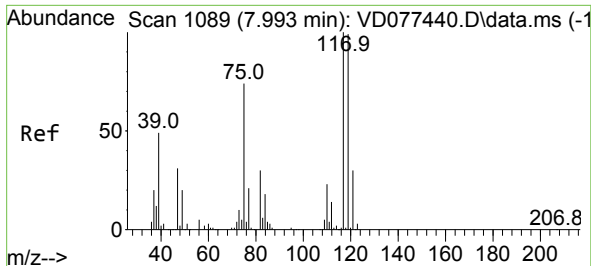
Tgt Ion:113 Resp: 86437
Ion Ratio Lower Upper
113 100
111 103.3 84.7 127.1
192 19.3 16.8 25.2



#36
1,1-Dichloropropene
Concen: 3.841 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.123 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

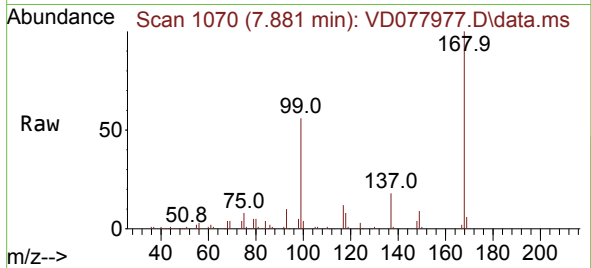
Tgt Ion: 75 Resp: 12644
Ion Ratio Lower Upper
75 100
110 8.4 19.9 59.6#
77 0.0 24.7 37.1#



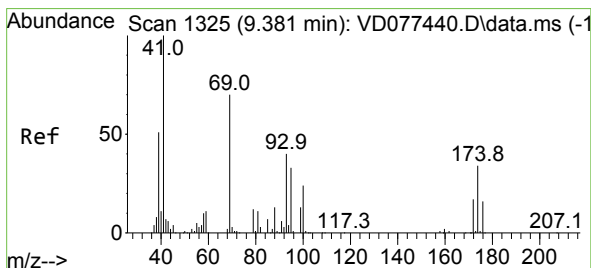
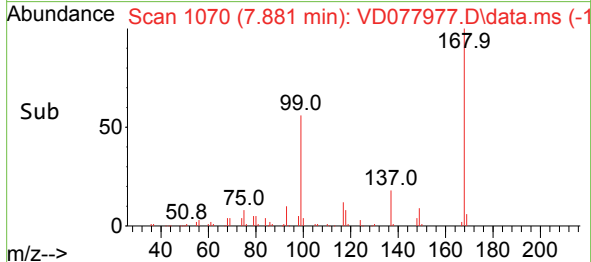
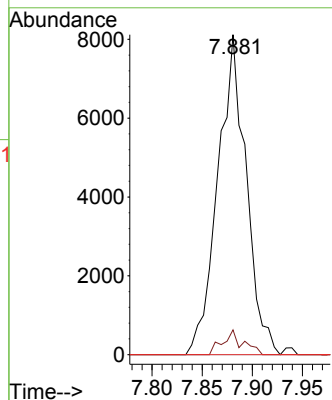


#38
Carbon Tetrachloride
Concen: 4.877 ug/l
RT: 7.881 min Scan# 1089
Delta R.T. -0.112 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Instrument :
MSVOA_D
ClientSampleId :

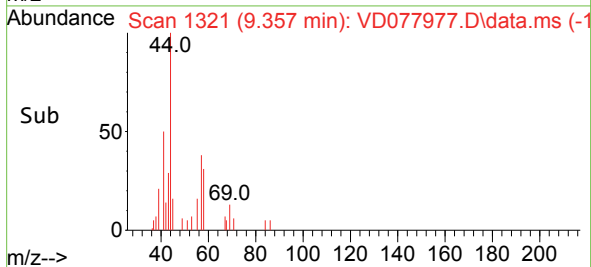
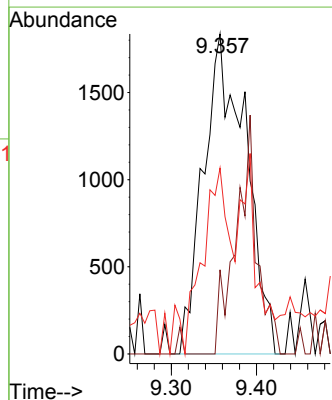
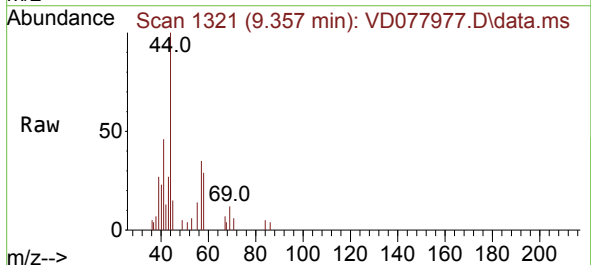


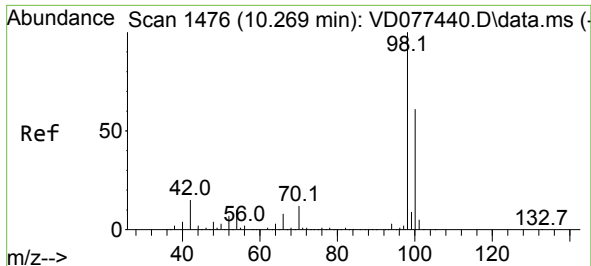
Tgt Ion:117 Resp: 16002
Ion Ratio Lower Upper
117 100
119 7.7 78.0 117.0#
121 0.0 24.2 36.2#



#48
Methyl methacrylate
Concen: 4.875 ug/l
RT: 9.357 min Scan# 1321
Delta R.T. -0.024 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion: 41 Resp: 6323
Ion Ratio Lower Upper
41 100
69 0.0 102.2 153.2#
39 37.2 41.4 62.2#

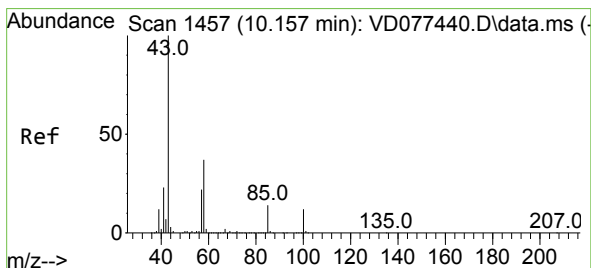
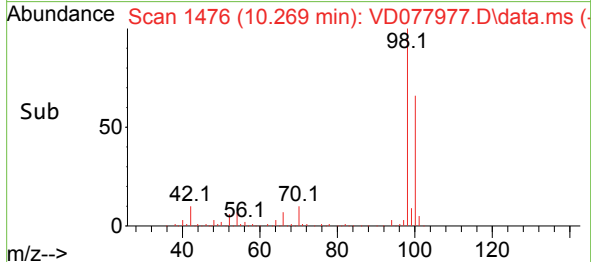
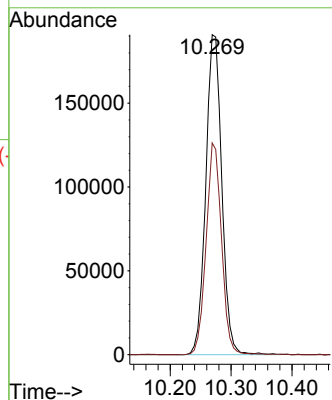
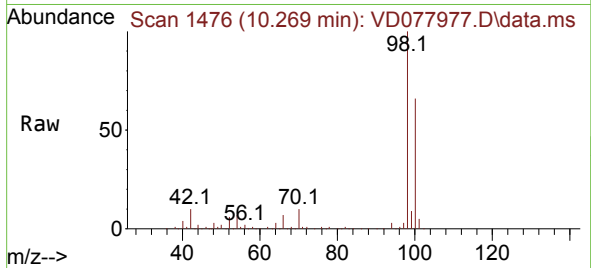




#50
Toluene-d8
Concen: 42.331 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

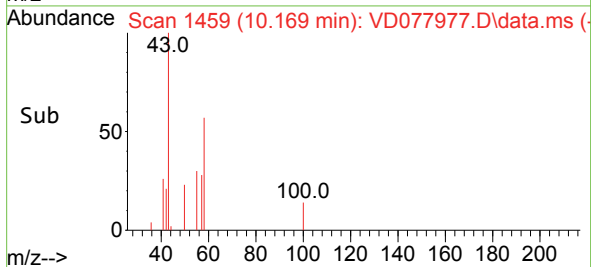
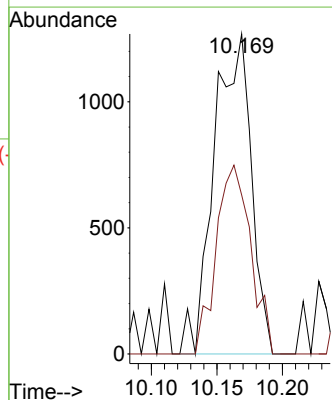
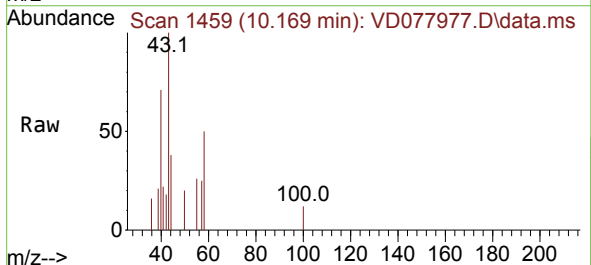
Instrument :
MSVOA_D
ClientSampleId :

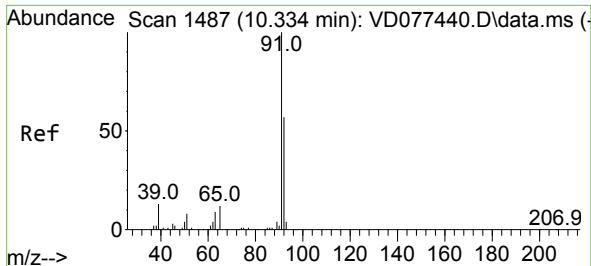
Tgt Ion: 98 Resp: 348882
Ion Ratio Lower Upper
98 100
100 63.7 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 2.150 ug/l
RT: 10.169 min Scan# 1459
Delta R.T. 0.012 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion: 43 Resp: 2503
Ion Ratio Lower Upper
43 100
58 54.7 38.9 58.3

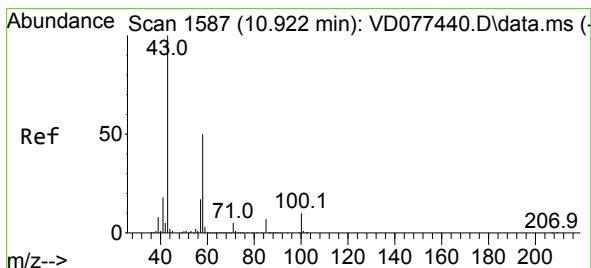
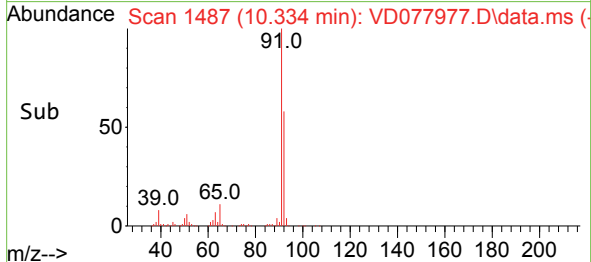
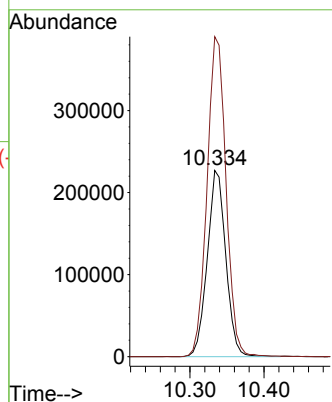
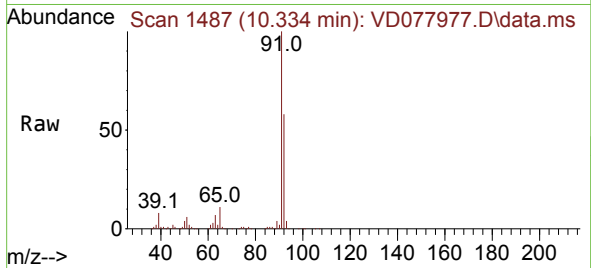




#52
Toluene
Concen: 68.020 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

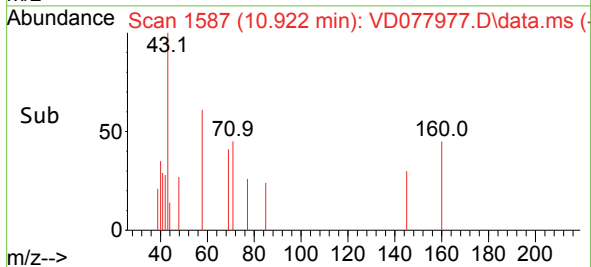
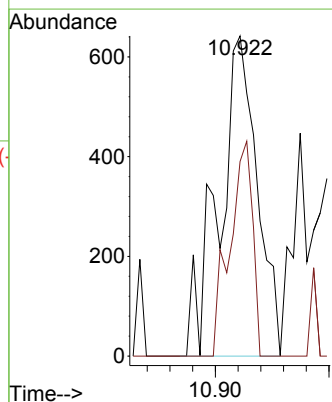
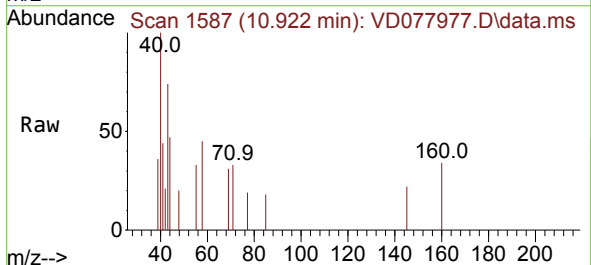
Instrument :
MSVOA_D
ClientSampleId :

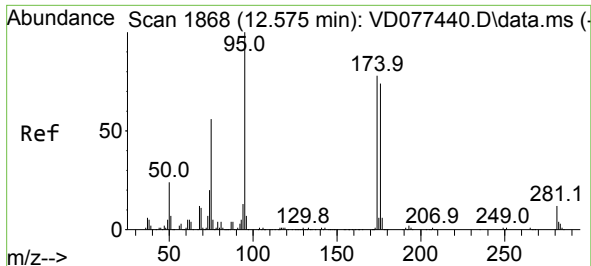
Tgt Ion: 92 Resp: 394174
Ion Ratio Lower Upper
92 100
91 176.3 143.0 214.4



#59
2-Hexanone
Concen: 1.553 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. -0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion: 43 Resp: 1500
Ion Ratio Lower Upper
43 100
58 40.1 34.1 102.2

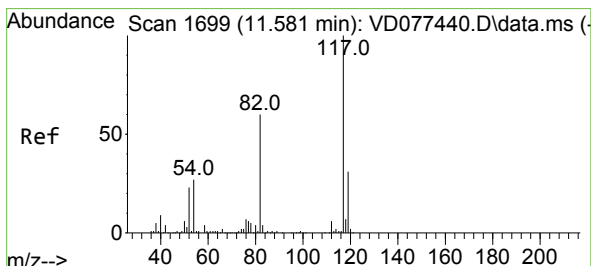
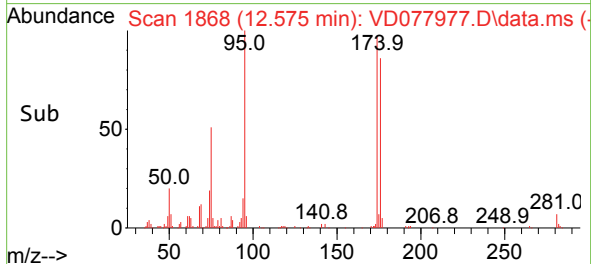
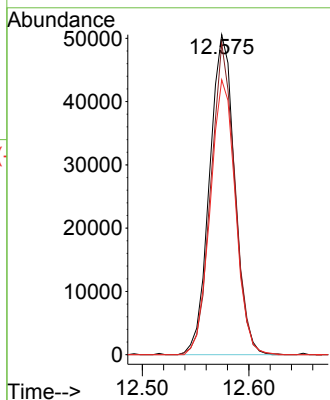
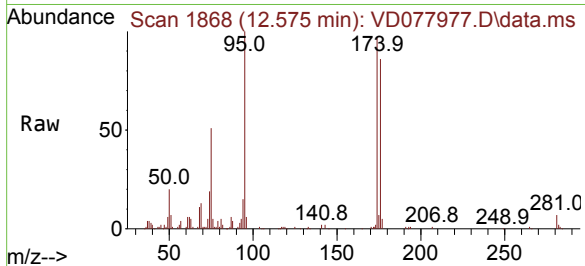




#62
4-Bromofluorobenzene
Concen: 33.610 ug/l
RT: 12.575 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

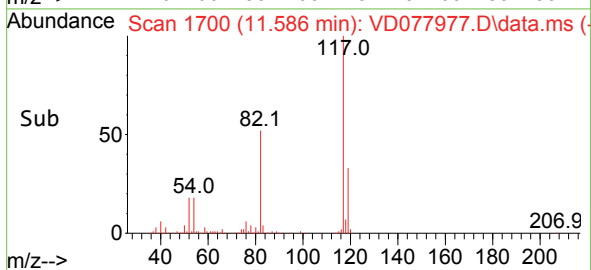
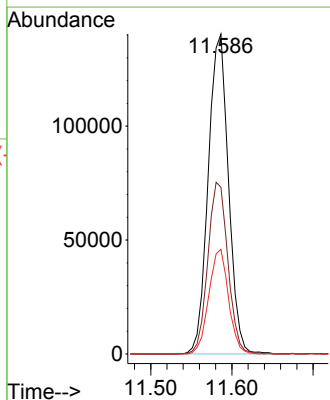
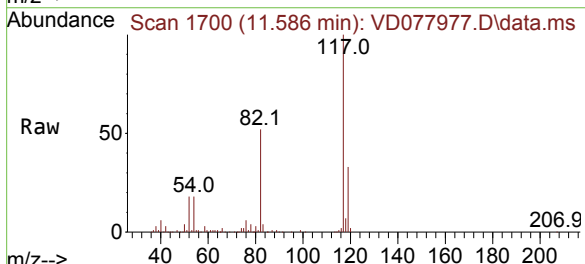
Instrument :
MSVOA_D
ClientSampleId :

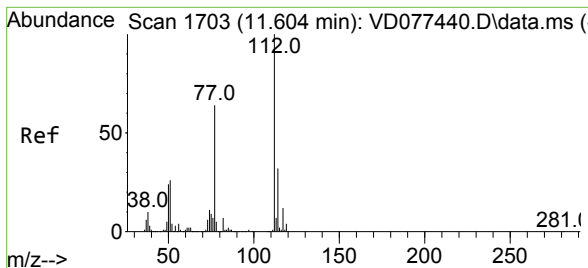
Tgt Ion: 95 Resp: 82816
Ion Ratio Lower Upper
95 100
174 92.7 0.0 201.8
176 86.1 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.586 min Scan# 1700
Delta R.T. 0.005 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion: 117 Resp: 243302
Ion Ratio Lower Upper
117 100
82 52.1 38.3 57.5
119 32.7 25.0 37.4

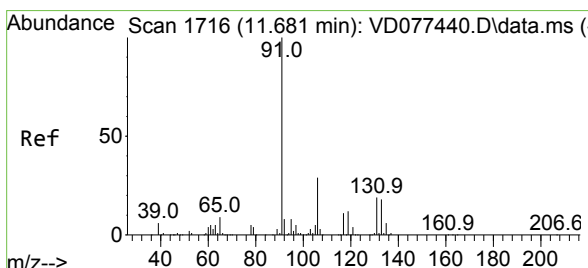
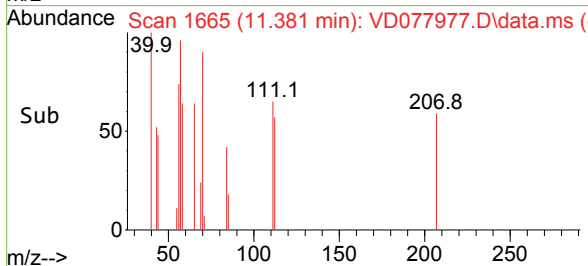
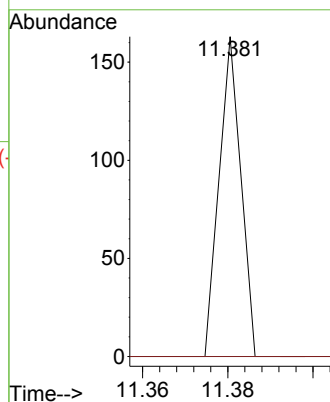
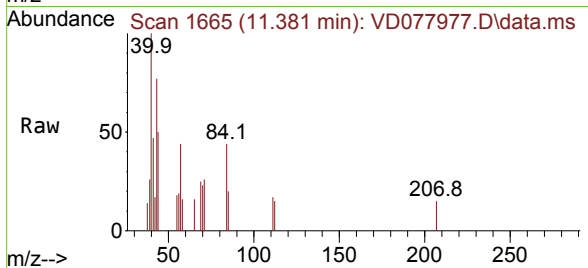




#65
Chlorobenzene
Concen: Below Cal
RT: 11.381 min Scan# 1665
Delta R.T. -0.223 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

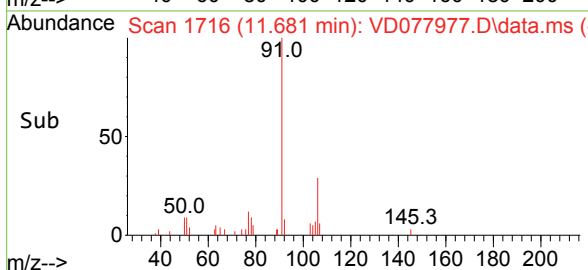
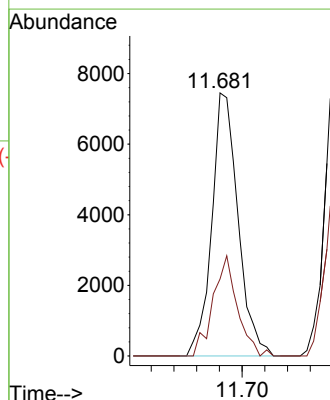
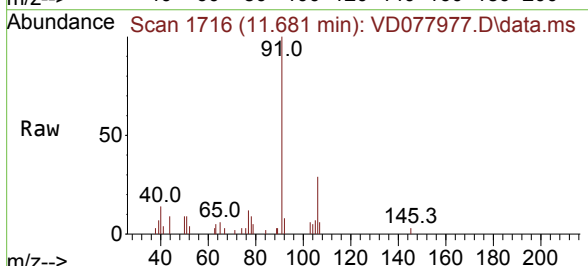
Instrument :
MSVOA_D
ClientSampleId :

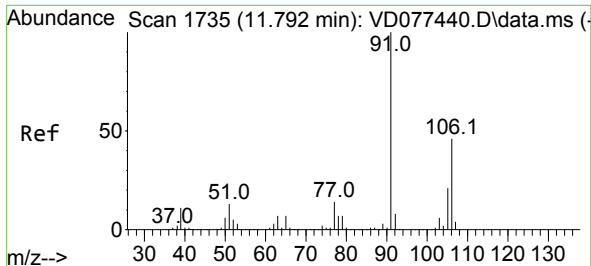
Tgt Ion:112 Resp: 58
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#



#67
Ethyl Benzene
Concen: 1.180 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

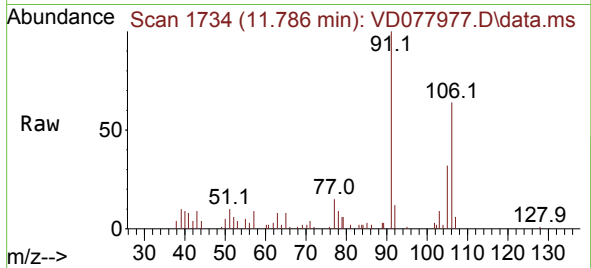
Tgt Ion: 91 Resp: 11957
Ion Ratio Lower Upper
91 100
106 29.3 26.5 39.7



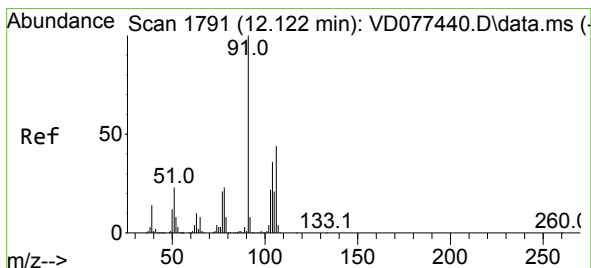
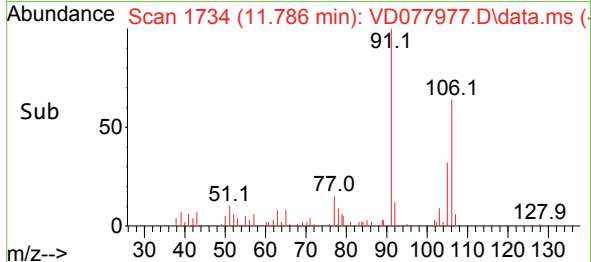
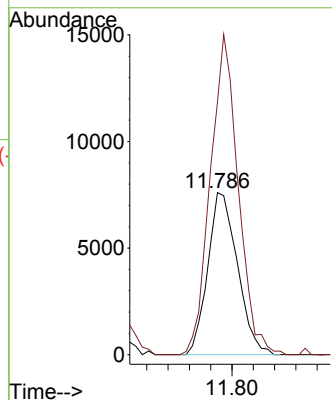


#68
m/p-Xylenes
Concen: 3.796 ug/l
RT: 11.786 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Instrument :
MSVOA_D
ClientSampleId :

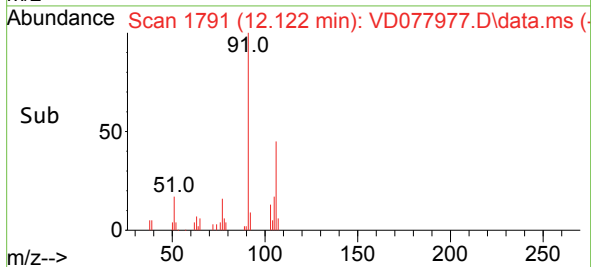
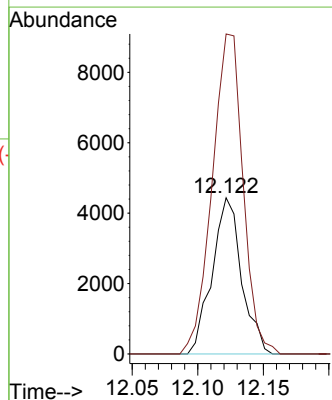
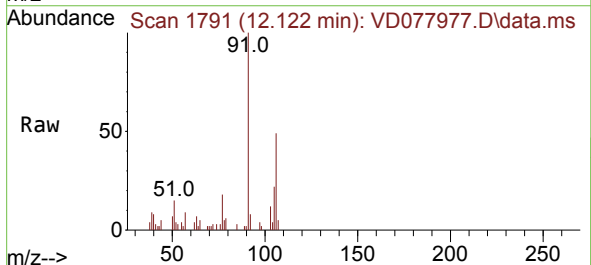


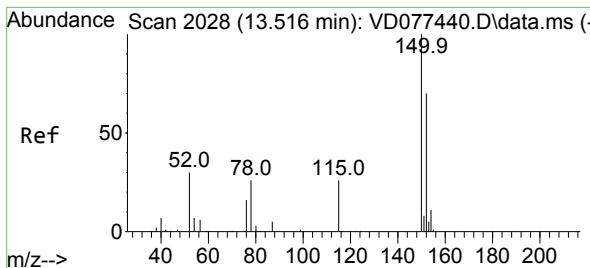
Tgt Ion:106 Resp: 14706
Ion Ratio Lower Upper
106 100
91 185.7 147.0 220.6



#69
o-Xylene
Concen: 1.945 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion:106 Resp: 6944
Ion Ratio Lower Upper
106 100
91 214.4 97.9 293.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.522 min Scan# 20

Delta R.T. 0.006 min

Lab File: VD077977.D

Acq: 19 Dec 2023 16:39

Instrument :

MSVOA_D

ClientSampleId :

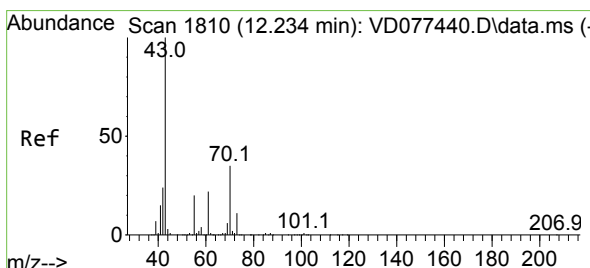
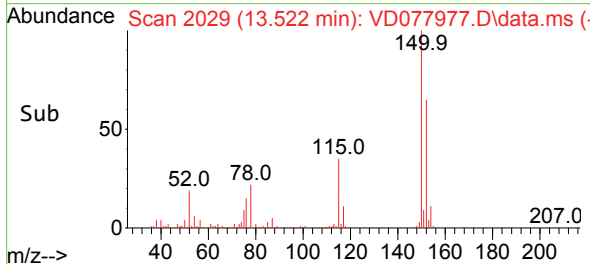
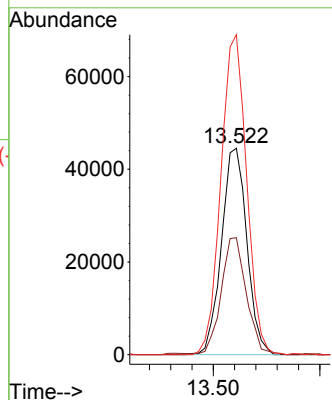
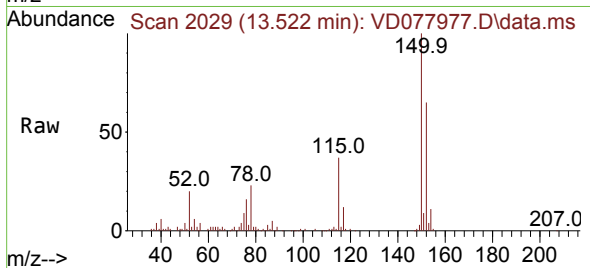
Tgt Ion:152 Resp: 73783

Ion Ratio Lower Upper

152 100

115 56.2 27.1 81.3

150 156.4 0.0 353.6



#74

N-ethyl acetate

Concen: 2.602 ug/l

RT: 12.210 min Scan# 1806

Delta R.T. -0.024 min

Lab File: VD077977.D

Acq: 19 Dec 2023 16:39

Tgt Ion: 43 Resp: 2860

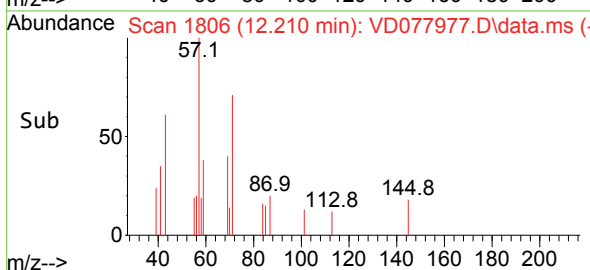
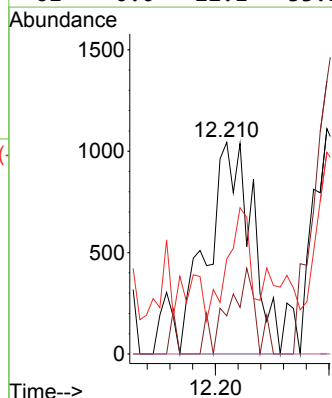
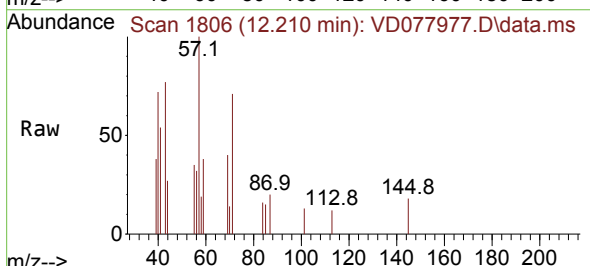
Ion Ratio Lower Upper

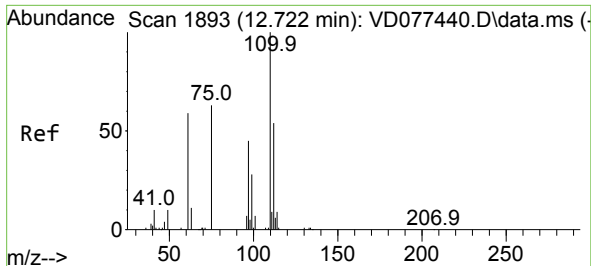
43 100

70 25.2 45.0 67.4#

55 27.0 23.8 35.6

61 0.0 22.1 33.1#

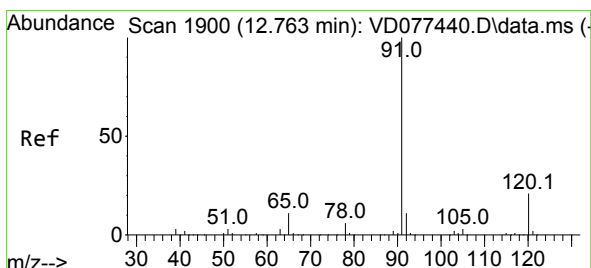
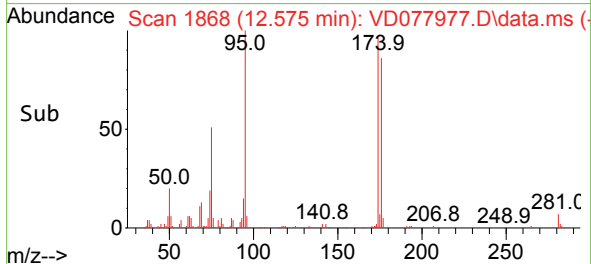
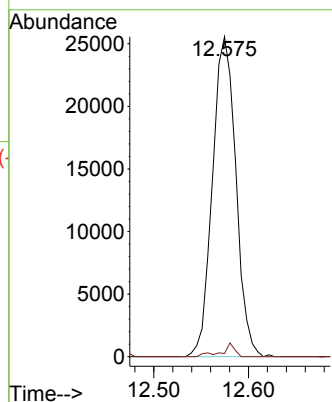
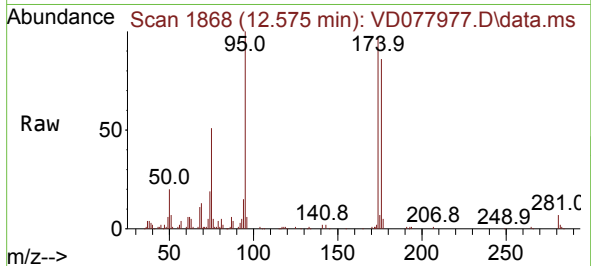




#76
1,2,3-Trichloropropane
Concen: 68.649 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

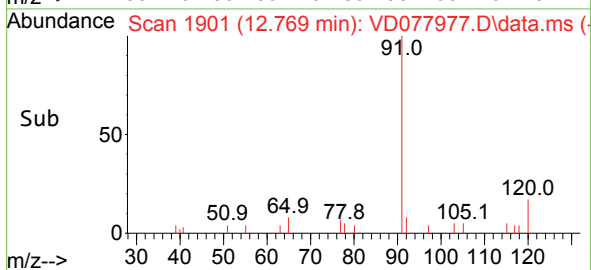
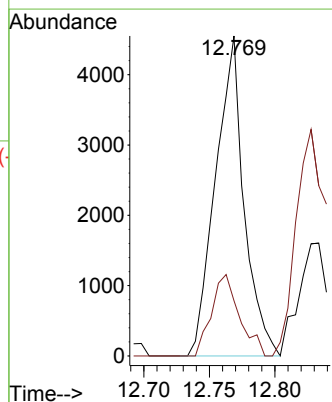
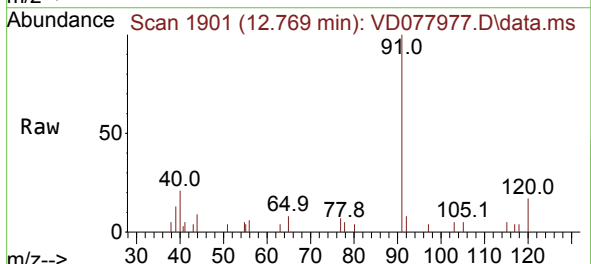
Instrument :
MSVOA_D
ClientSampleId :

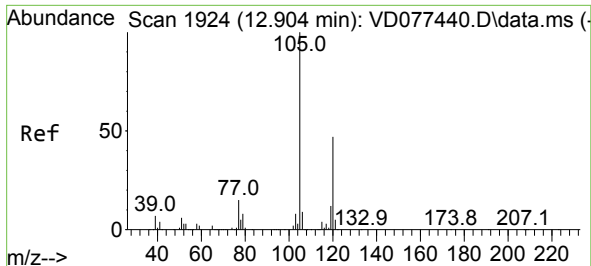
Tgt Ion: 75 Resp: 43991
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#78
n-propylbenzene
Concen: 1.009 ug/l
RT: 12.769 min Scan# 1901
Delta R.T. 0.006 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

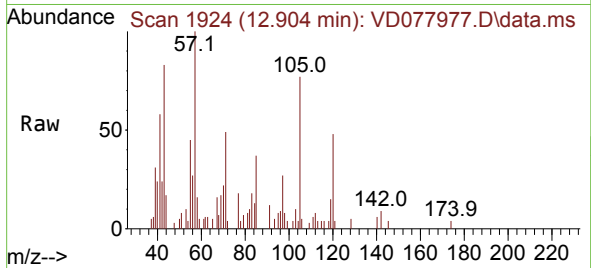
Tgt Ion: 91 Resp: 6878
Ion Ratio Lower Upper
91 100
120 25.0 12.4 37.2



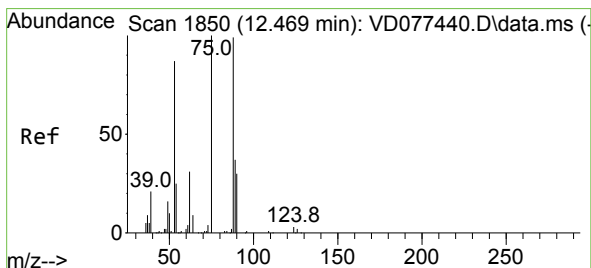
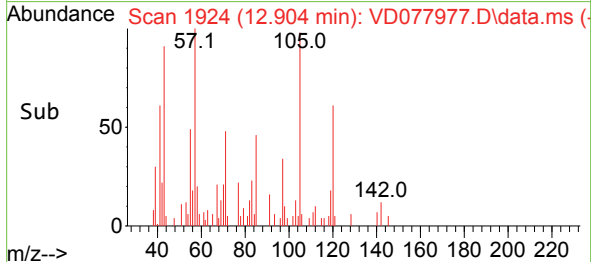
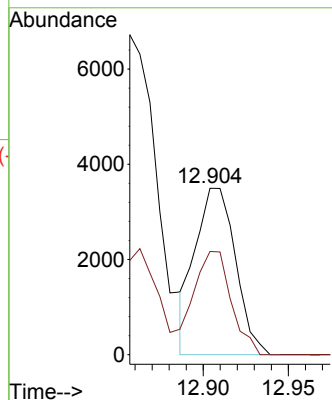


#80
 1,3,5-Trimethylbenzene
 Concen: 1.234 ug/l
 RT: 12.904 min Scan# 1924
 Delta R.T. -0.000 min
 Lab File: VD077977.D
 Acq: 19 Dec 2023 16:39

Instrument :
 MSVOA_D
 ClientSampleId :

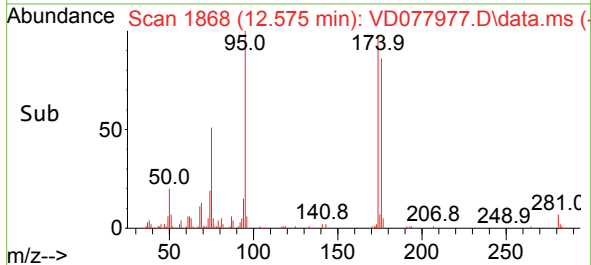
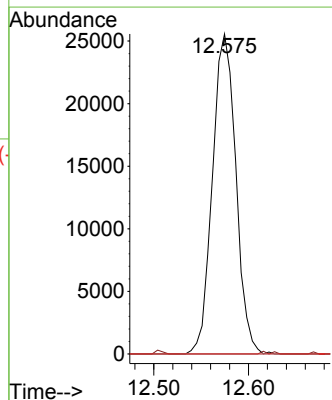
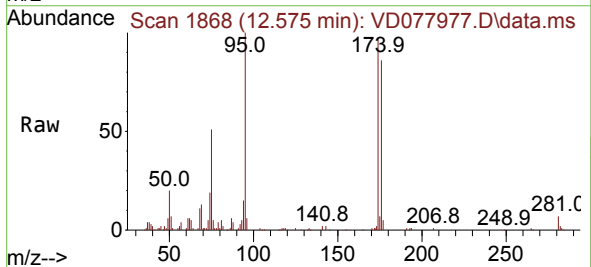


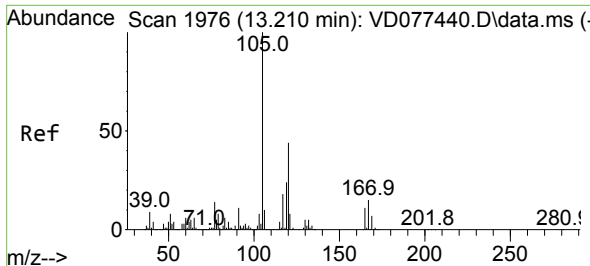
Tgt Ion:105 Resp: 5754
 Ion Ratio Lower Upper
 105 100
 120 59.4 26.4 79.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.088 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. 0.106 min
 Lab File: VD077977.D
 Acq: 19 Dec 2023 16:39

Tgt Ion: 75 Resp: 43991
 Ion Ratio Lower Upper
 75 100
 53 0.0 63.0 94.4#
 89 0.0 37.9 56.9#

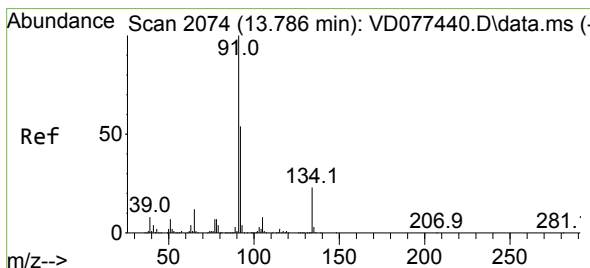
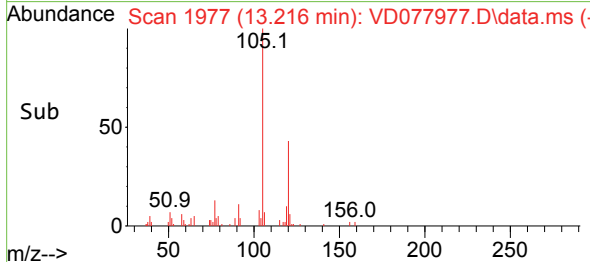
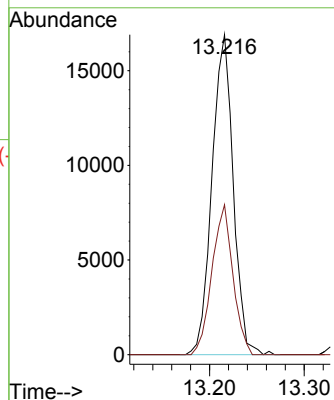
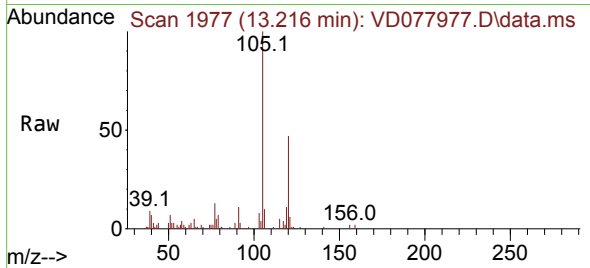




#84
1,2,4-Trimethylbenzene
Concen: 5.639 ug/l
RT: 13.216 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

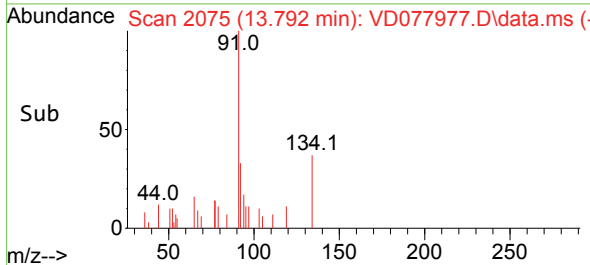
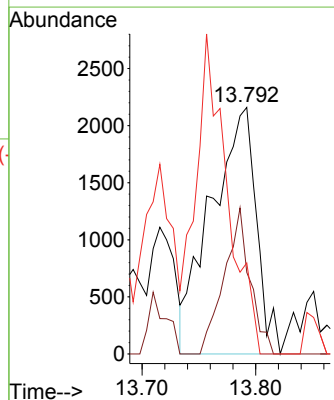
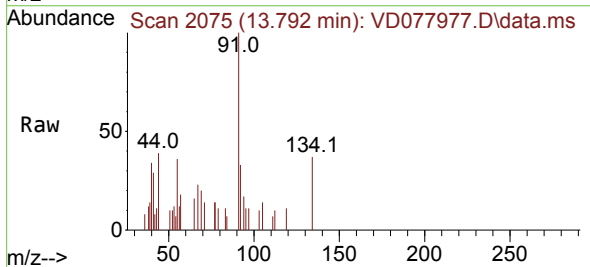
Instrument :
MSVOA_D
ClientSampleId :

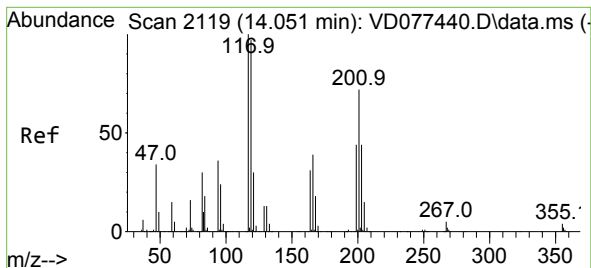
Tgt Ion:105 Resp: 26306
Ion Ratio Lower Upper
105 100
120 46.2 24.3 72.9



#89
n-Butylbenzene
Concen: 1.215 ug/l
RT: 13.792 min Scan# 2075
Delta R.T. 0.006 min
Lab File: VD077977.D
Acq: 19 Dec 2023 16:39

Tgt Ion: 91 Resp: 5956
Ion Ratio Lower Upper
91 100
92 34.0 26.5 79.5
134 0.0 13.8 41.3#





#90

Hexachloroethane

Concen: 2.139 ug/l

RT: 14.057 min Scan# 2119

Delta R.T. 0.006 min

Lab File: VD077977.D

Acq: 19 Dec 2023 16:39

Instrument :

MSVOA_D

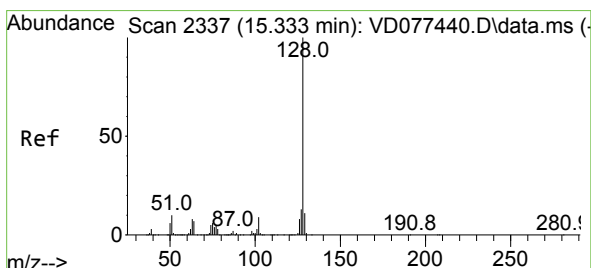
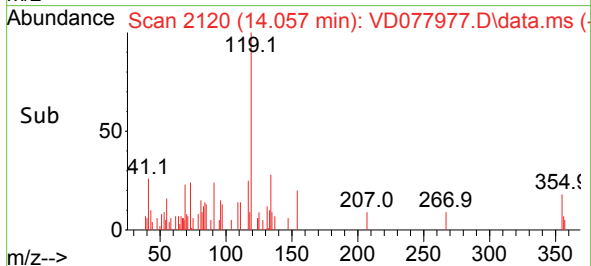
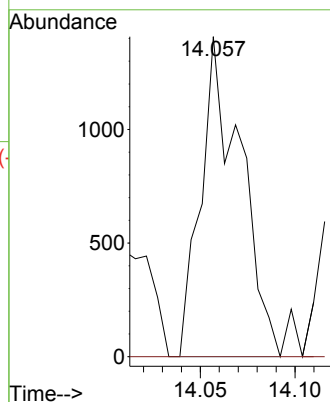
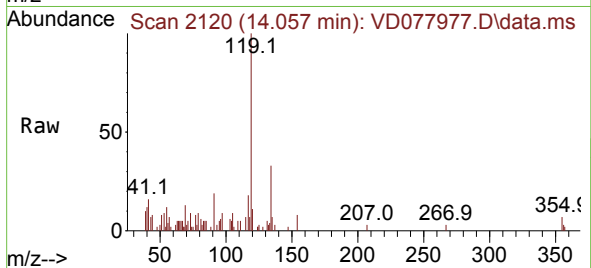
ClientSampleId :

Tgt Ion:117 Resp: 2050

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#95

Naphthalene

Concen: 2.018 ug/l

RT: 15.327 min Scan# 2336

Delta R.T. -0.006 min

Lab File: VD077977.D

Acq: 19 Dec 2023 16:39

Tgt Ion:128 Resp: 5239

Ion Ratio Lower Upper

128 100

127 20.3 10.5 15.7#

129 13.5 8.7 13.1#

