

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102523\
 Data File : VD077419.D
 Acq On : 25 Oct 2023 17:29
 Operator : JC/SY
 Sample : 05005-02RE
 Misc : 4.77G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 26 07:02:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101723S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 18 03:02:43 2023
 Response via : Initial Calibration

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

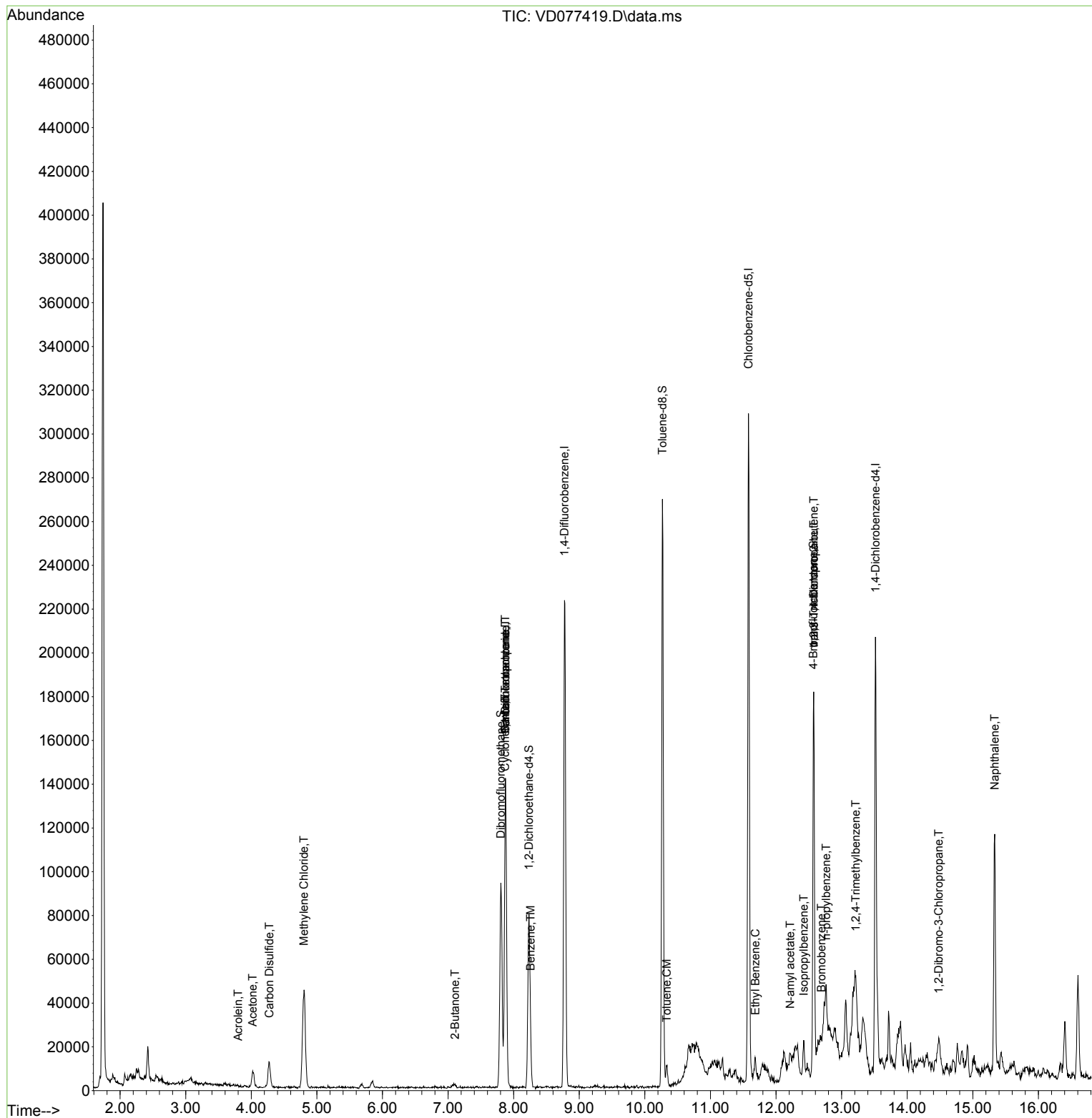
Internal Standards						
1) Pentafluorobenzene	7.875	168	113226	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	219162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	194538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	57269	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	54785	54.187	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 108.380%	
35) Dibromofluoromethane	7.804	113	69895	45.395	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 90.780%	
50) Toluene-d8	10.269	98	192629	34.933	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 69.860%	
62) 4-Bromofluorobenzene	12.569	95	51852	32.667	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 65.340%	
Target Compounds						
					Qvalue	
13) Acrolein	3.799	56	247	2.502	ug/l #	83
16) Acetone	4.022	43	12320	55.568	ug/l	99
17) Carbon Disulfide	4.275	76	23311	6.083	ug/l	96
20) Methylene Chloride	4.805	84	39802	27.516	ug/l	95
25) 2-Butanone	7.104	43	2454	10.670	ug/l #	86
31) Cyclohexane	7.869	56	2337	1.486	ug/l #	58
36) 1,1-Dichloropropene	7.875	75	8009	3.959	ug/l #	47
38) Carbon Tetrachloride	7.875	117	11023	4.898	ug/l #	15
40) Benzene	8.257	78	19219	3.130	ug/l	92
52) Toluene	10.334	92	4875	1.216	ug/l	84
67) Ethyl Benzene	11.686	91	7485	1.065	ug/l	94
73) Isopropylbenzene	12.422	105	9376	2.475	ug/l	88
74) N-amyl acetate	12.216	43	1723	3.162	ug/l #	50
76) 1,2,3-Trichloropropane	12.575	75	25024	33.162	ug/l #	100
77) Bromobenzene	12.692	156	8516	8.563	ug/l #	1
78) n-propylbenzene	12.763	91	15504	3.398	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.575	75	25024	117.084	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.216	105	4802	1.526	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.480	75	286	3.395	ug/l #	23
95) Naphthalene	15.333	128	101142	54.383	ug/l	99

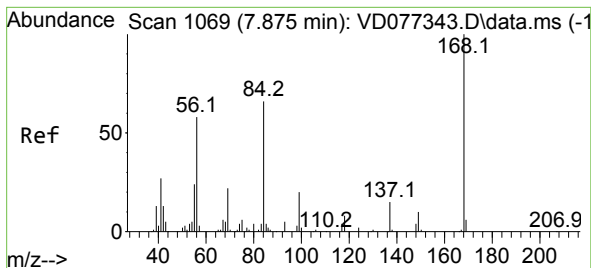
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 18 03:02:43 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VD077419.D

Acq: 25 Oct 2023 17:29

Instrument :

MSVOA_D

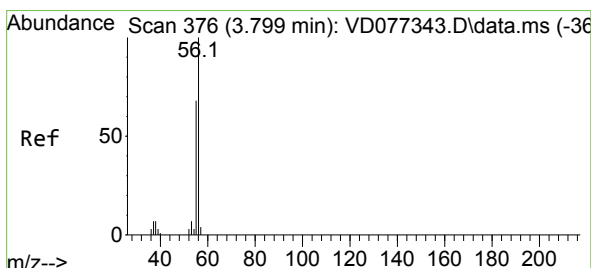
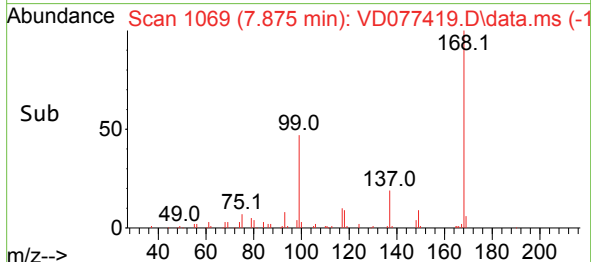
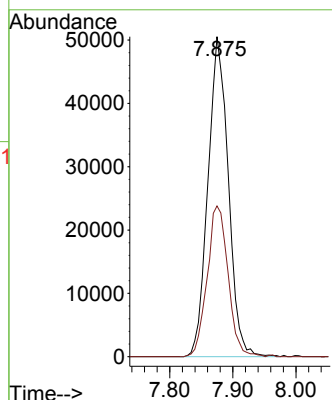
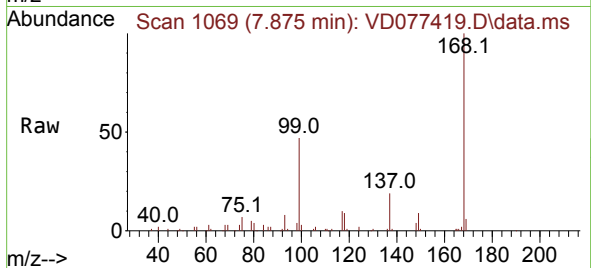
ClientSampleId :

Tgt Ion:168 Resp: 113226

Ion Ratio Lower Upper

168 100

99 47.1 36.7 55.1



#13

Acrolein

Concen: 2.502 ug/l

RT: 3.799 min Scan# 376

Delta R.T. -0.000 min

Lab File: VD077419.D

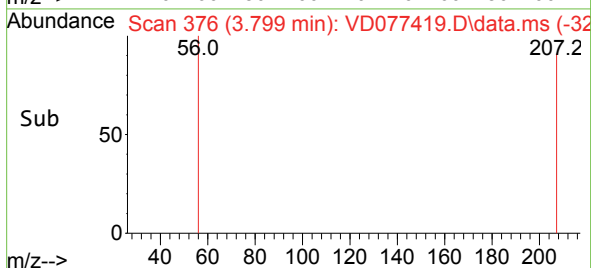
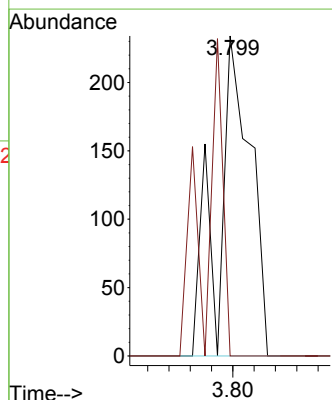
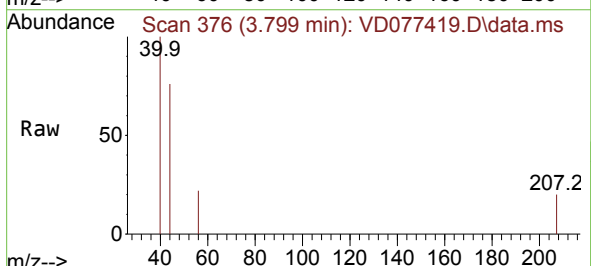
Acq: 25 Oct 2023 17:29

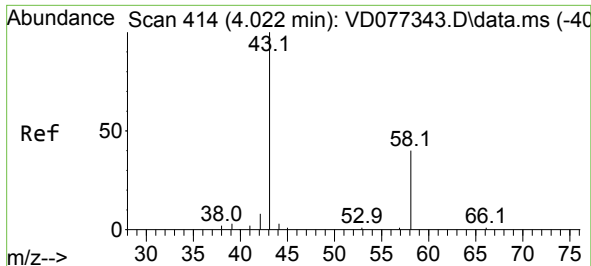
Tgt Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 55.1 55.1 82.7#

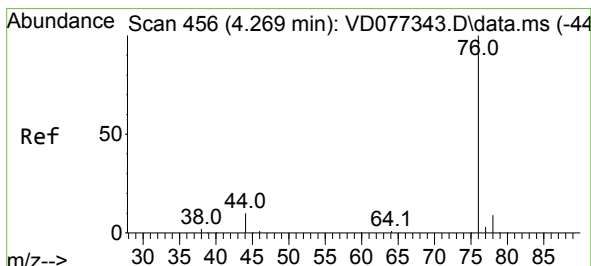
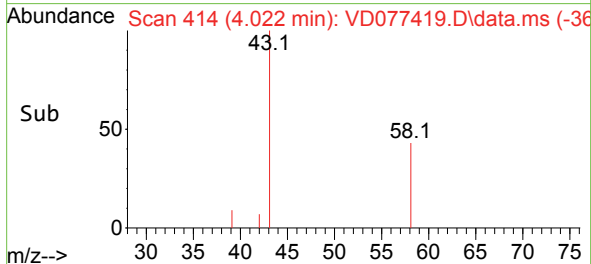
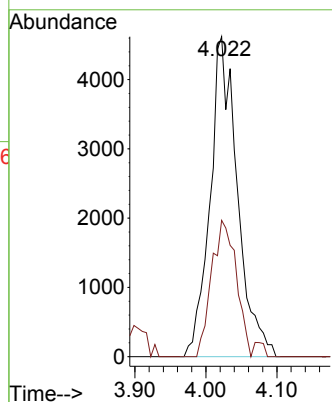
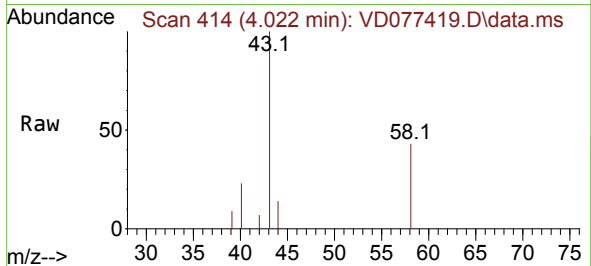




#16
Acetone
Concen: 55.568 ug/l
RT: 4.022 min Scan# 414
Delta R.T. 0.000 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

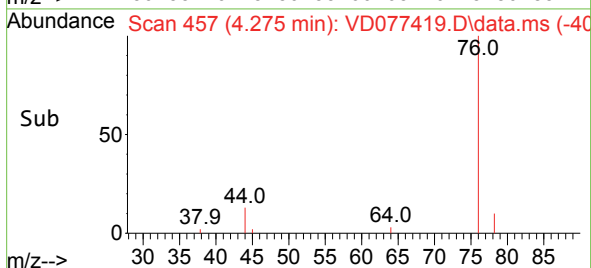
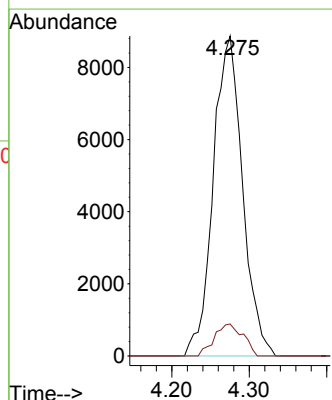
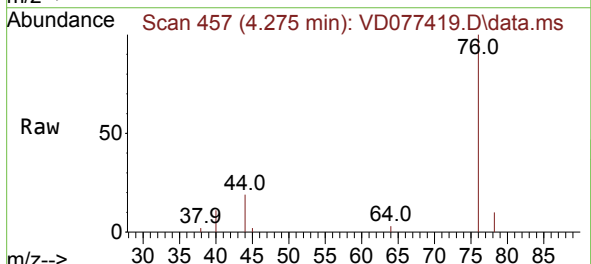
Instrument :
MSVOA_D
ClientSampleId :

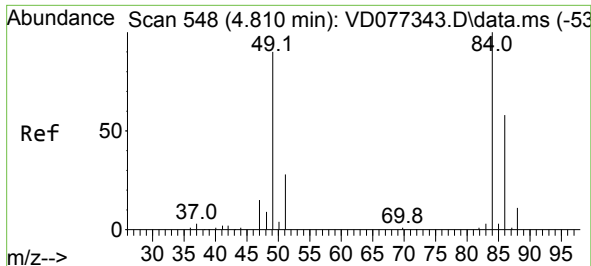
Tgt Ion: 43 Resp: 12320
Ion Ratio Lower Upper
43 100
58 42.6 34.7 52.1



#17
Carbon Disulfide
Concen: 6.083 ug/l
RT: 4.275 min Scan# 457
Delta R.T. 0.006 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

Tgt Ion: 76 Resp: 23311
Ion Ratio Lower Upper
76 100
78 10.0 6.8 10.2





#20

Methylene Chloride

Concen: 27.516 ug/l

RT: 4.805 min Scan# 548

Delta R.T. -0.005 min

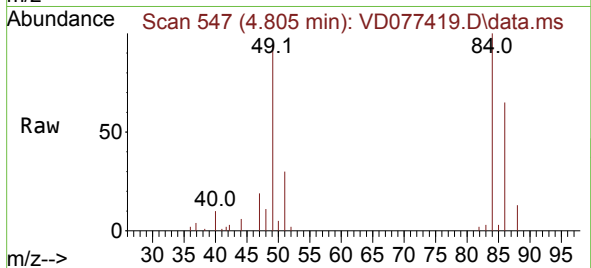
Lab File: VD077419.D

Acq: 25 Oct 2023 17:29

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 84 Resp: 39802

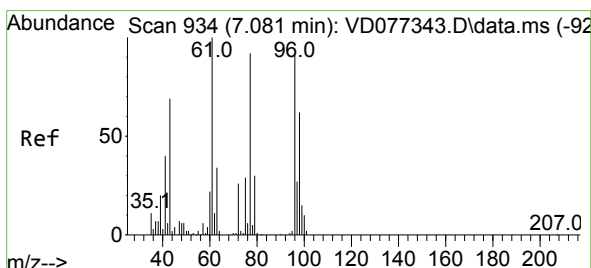
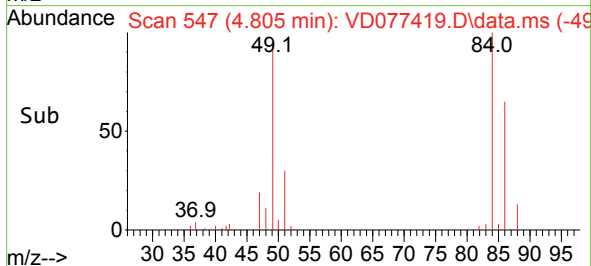
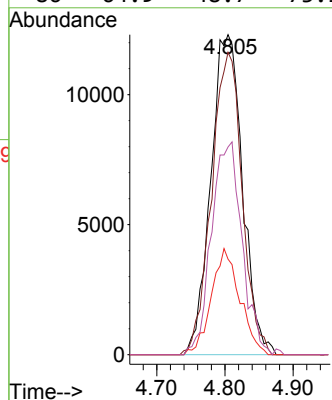
Ion Ratio Lower Upper

84 100

49 94.5 71.4 107.2

51 29.9 24.5 36.7

86 64.9 48.7 73.1



#25

2-Butanone

Concen: 10.670 ug/l

RT: 7.104 min Scan# 938

Delta R.T. 0.023 min

Lab File: VD077419.D

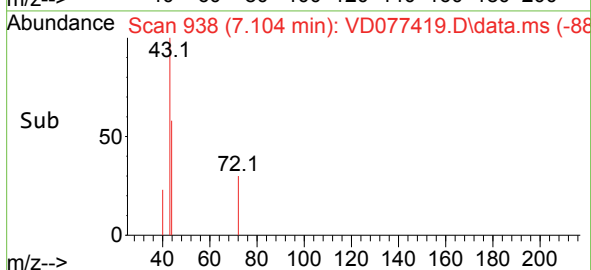
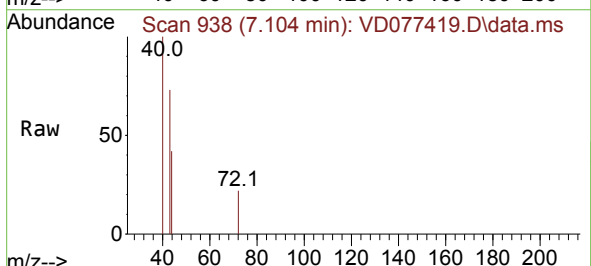
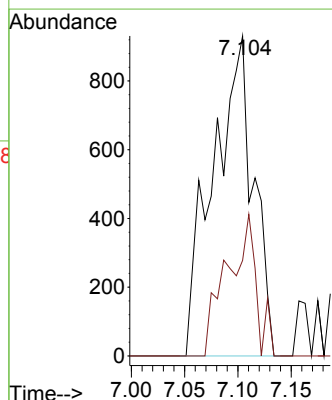
Acq: 25 Oct 2023 17:29

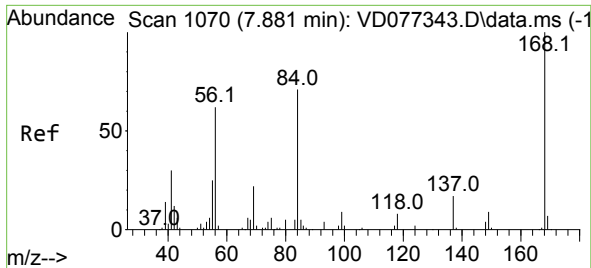
Tgt Ion: 43 Resp: 2454

Ion Ratio Lower Upper

43 100

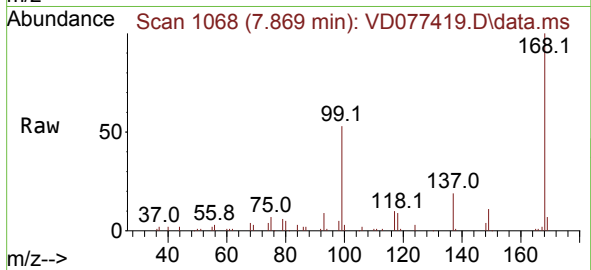
72 29.9 30.7 46.1#



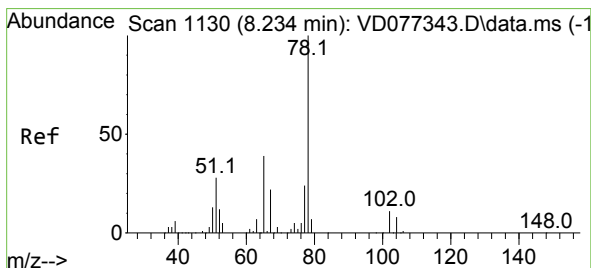
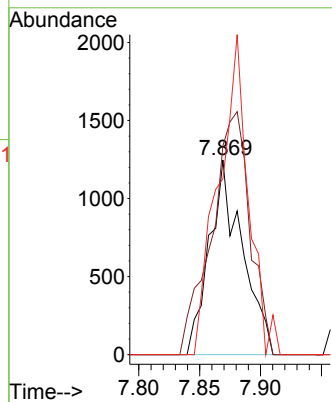
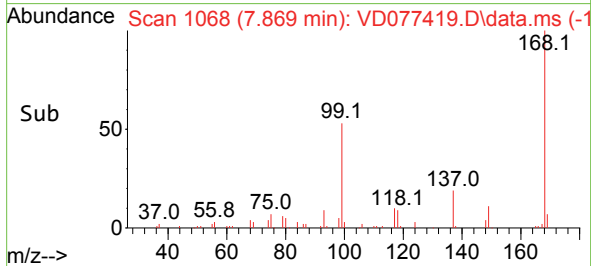


#31
Cyclohexane
Concen: 1.486 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.012 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

Instrument :
MSVOA_D
ClientSampleId :

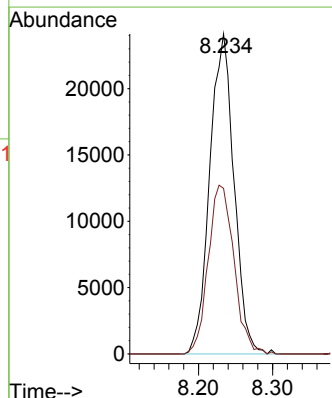
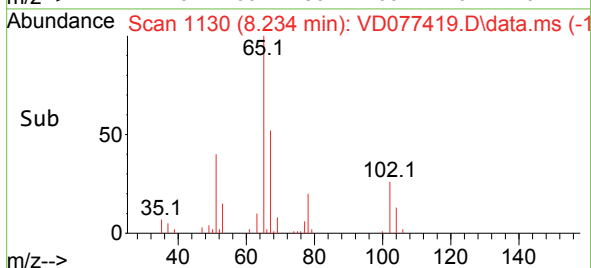
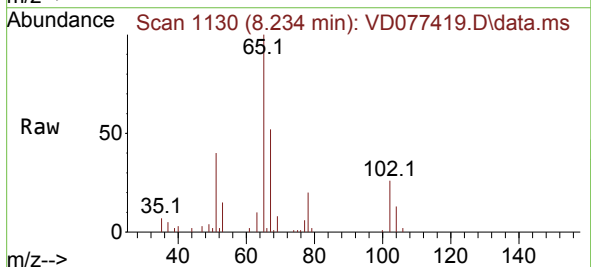


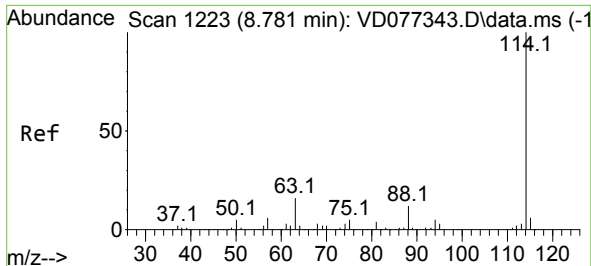
Tgt Ion: 56 Resp: 2337
Ion Ratio Lower Upper
56 100
69 107.5 28.6 43.0#
84 90.4 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 54.187 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

Tgt Ion: 65 Resp: 54785
Ion Ratio Lower Upper
65 100
67 56.0 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD077419.D

Acq: 25 Oct 2023 17:29

Instrument :

MSVOA_D

ClientSampleId :

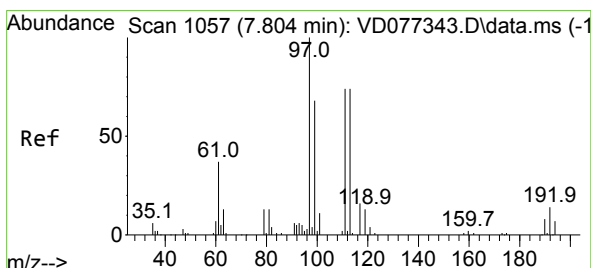
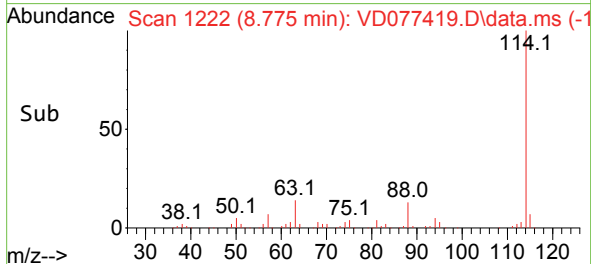
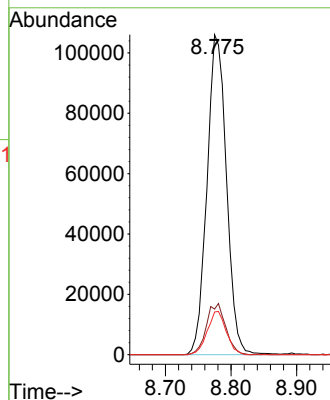
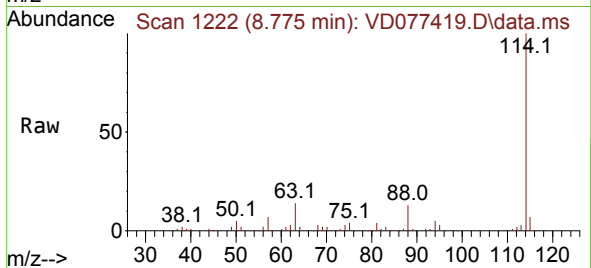
Tgt Ion:114 Resp: 219162

Ion Ratio Lower Upper

114 100

63 14.2 0.0 33.4

88 13.4 0.0 26.2



#35

Dibromofluoromethane

Concen: 45.395 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD077419.D

Acq: 25 Oct 2023 17:29

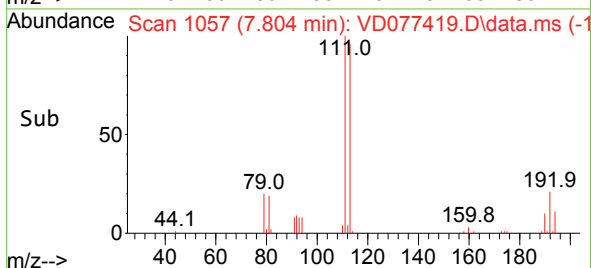
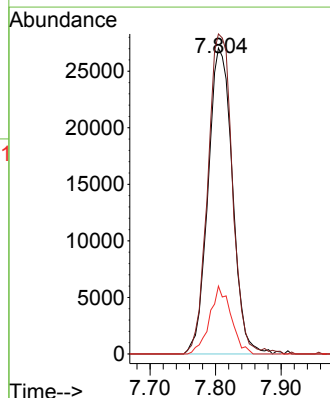
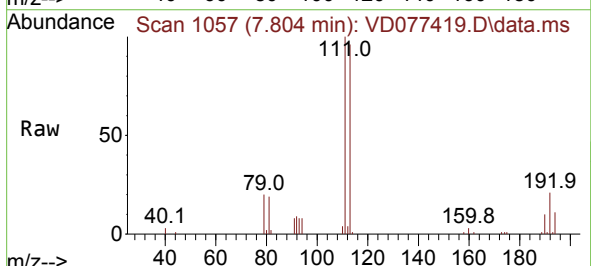
Tgt Ion:113 Resp: 69895

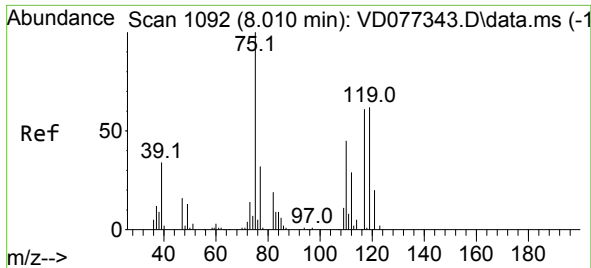
Ion Ratio Lower Upper

113 100

111 105.5 84.7 127.1

192 19.5 16.8 25.2

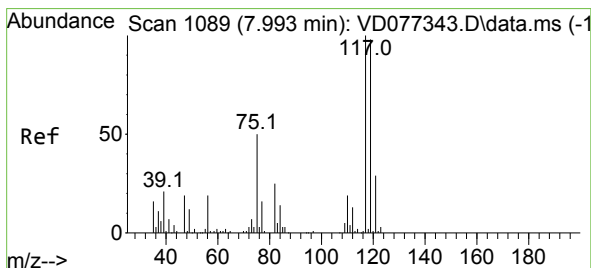
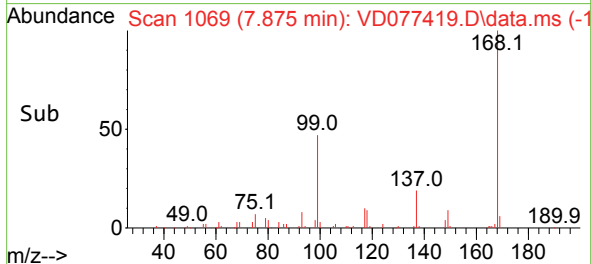
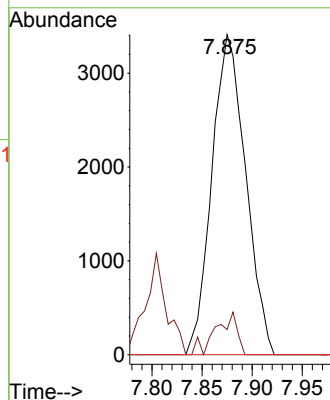
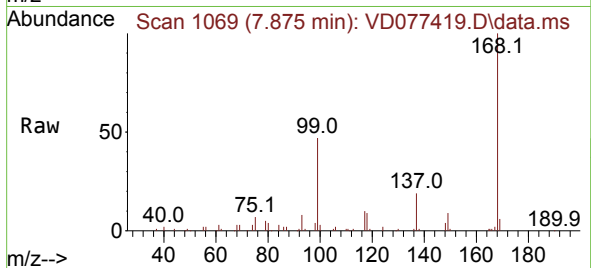




#36
1,1-Dichloropropene
Concen: 3.959 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.135 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

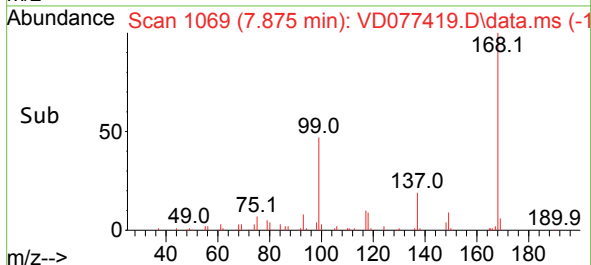
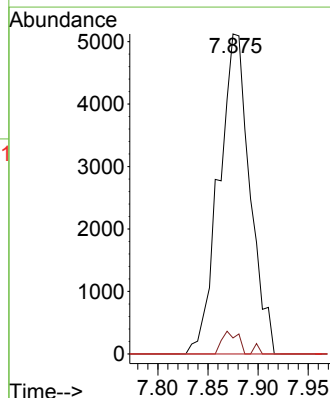
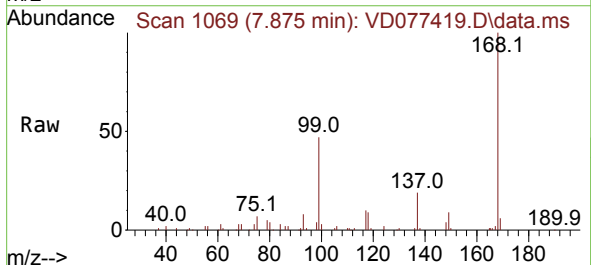
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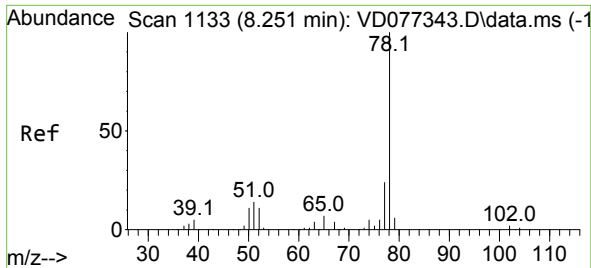
Tgt Ion: 75 Resp: 8009
Ion Ratio Lower Upper
75 100
110 8.4 19.9 59.6#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 4.898 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.118 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

Tgt Ion: 117 Resp: 11023
Ion Ratio Lower Upper
117 100
119 5.0 78.0 117.0#
121 0.0 24.2 36.2#

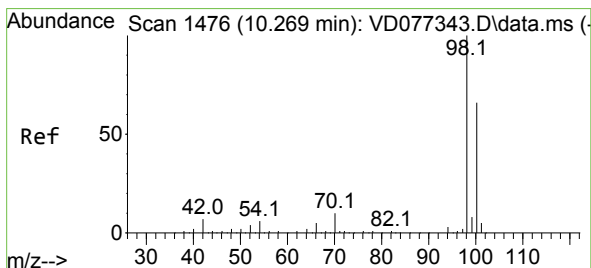
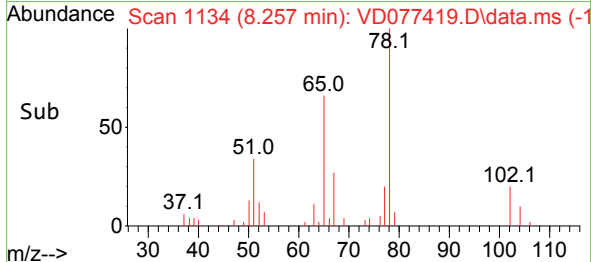
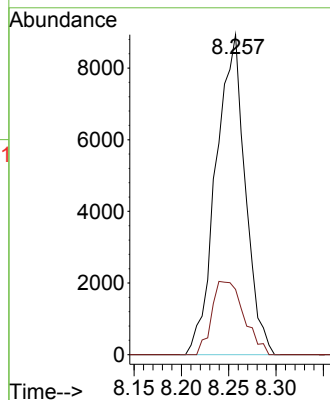
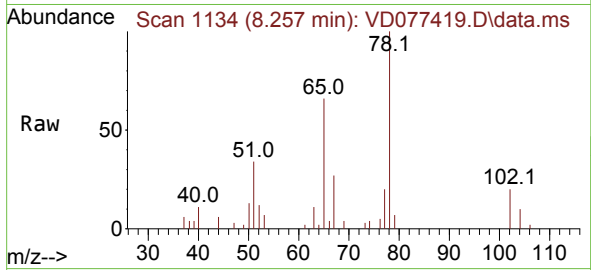




#40
Benzene
Concen: 3.130 ug/l
RT: 8.257 min Scan# 1134
Delta R.T. 0.006 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

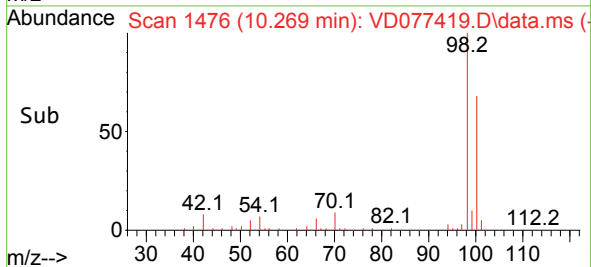
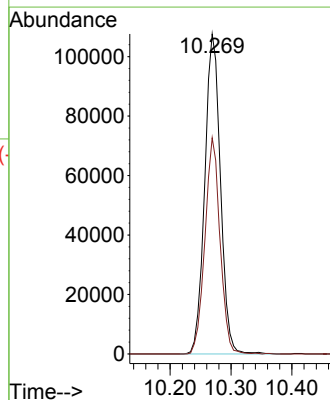
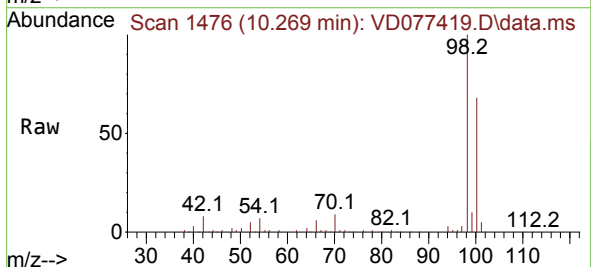
Instrument :
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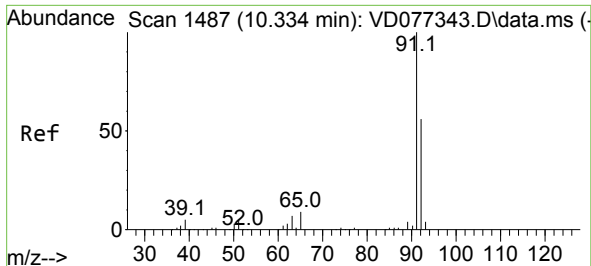
Tgt Ion: 78 Resp: 19219
Ion Ratio Lower Upper
78 100
77 20.4 19.4 29.0



#50
Toluene-d8
Concen: 34.933 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

Tgt Ion: 98 Resp: 192629
Ion Ratio Lower Upper
98 100
100 65.0 50.3 75.5

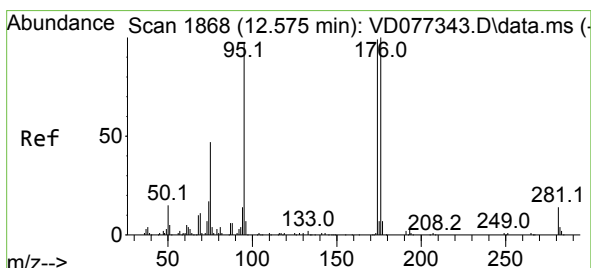
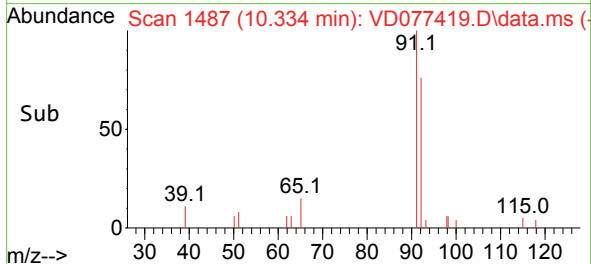
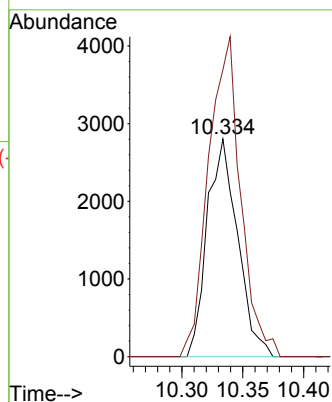
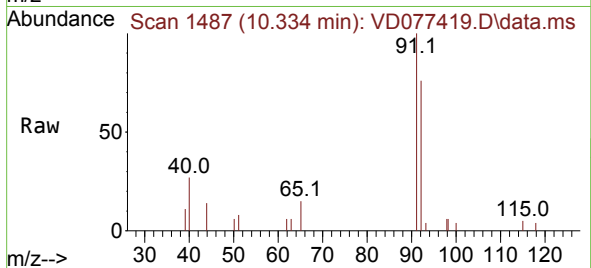




#52
Toluene
Concen: 1.216 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

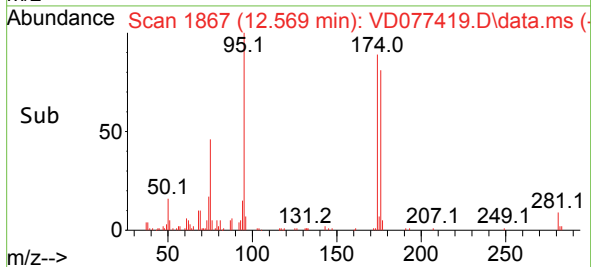
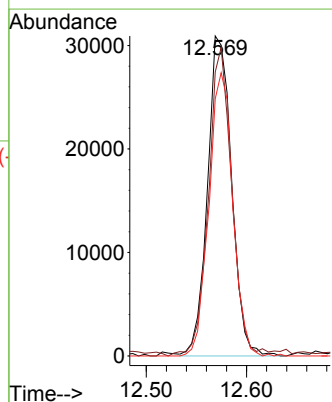
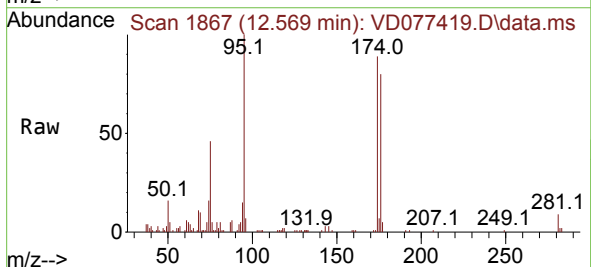
Instrument :
MSVOA_D
ClientSampleId :

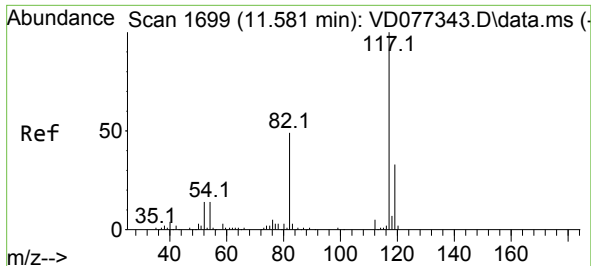
Tgt Ion: 92 Resp: 4875
Ion Ratio Lower Upper
92 100
91 155.4 143.0 214.4



#62
4-Bromofluorobenzene
Concen: 32.667 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

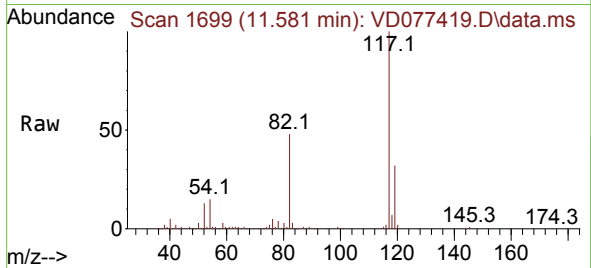
Tgt Ion: 95 Resp: 51852
Ion Ratio Lower Upper
95 100
174 93.9 0.0 201.8
176 87.7 0.0 191.8



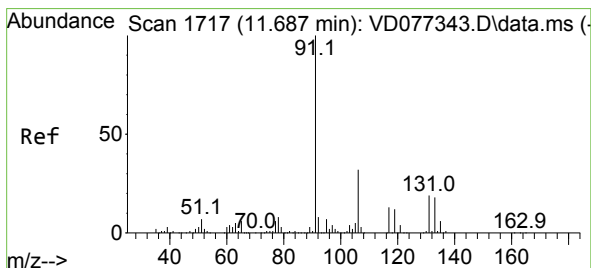
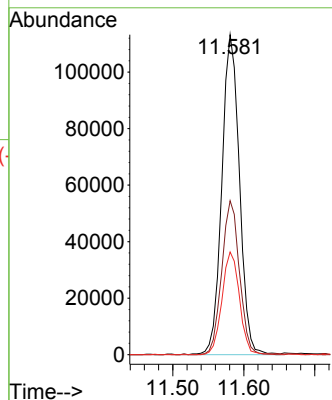
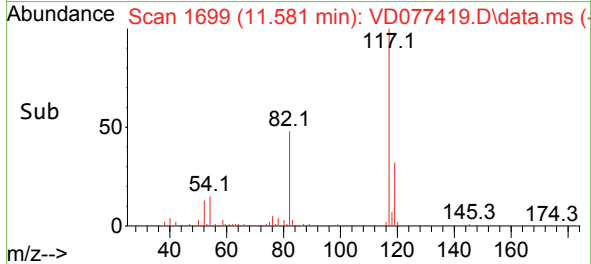


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

Instrument :
MSVOA_D
ClientSampleId :

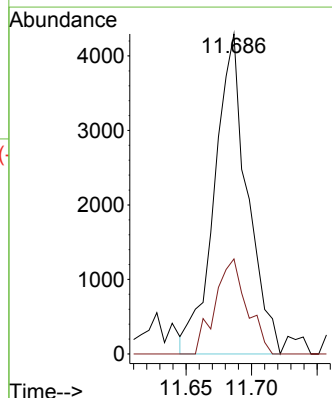
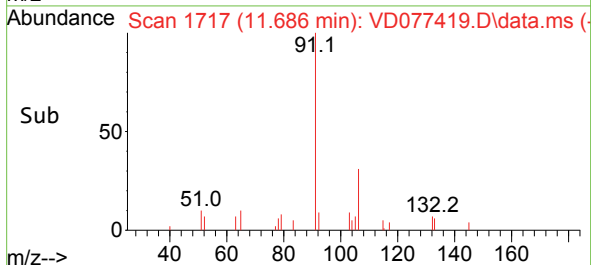
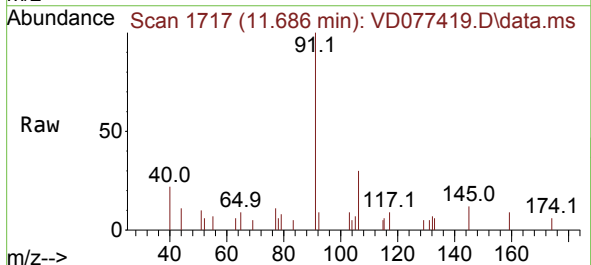


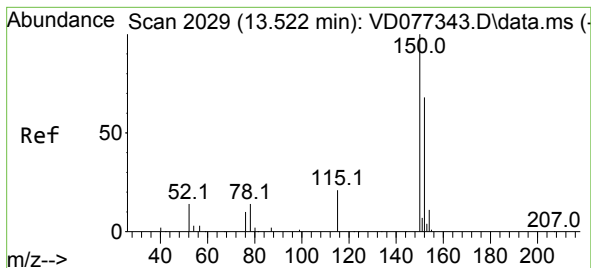
Tgt Ion:117 Resp: 194538
Ion Ratio Lower Upper
117 100
82 48.1 38.3 57.5
119 32.1 25.0 37.4



#67
Ethyl Benzene
Concen: 1.065 ug/l
RT: 11.686 min Scan# 1717
Delta R.T. -0.001 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

Tgt Ion: 91 Resp: 7485
Ion Ratio Lower Upper
91 100
106 29.7 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2029

Delta R.T. -0.006 min

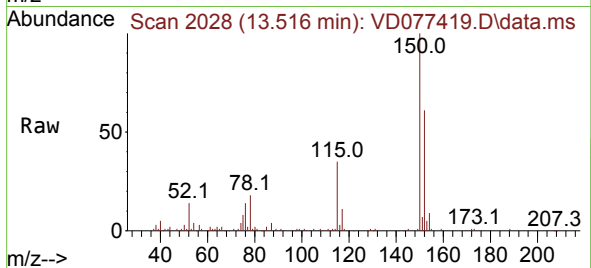
Lab File: VD077419.D

Acq: 25 Oct 2023 17:29

Instrument :

MSVOA_D

ClientSampleId :



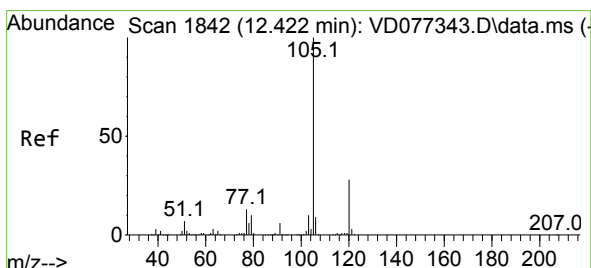
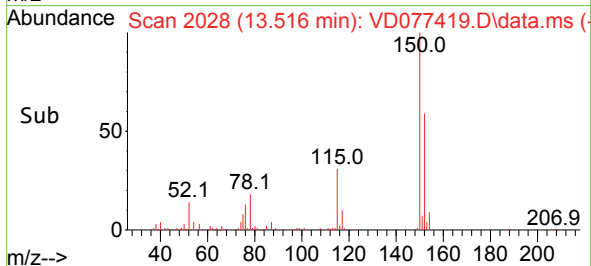
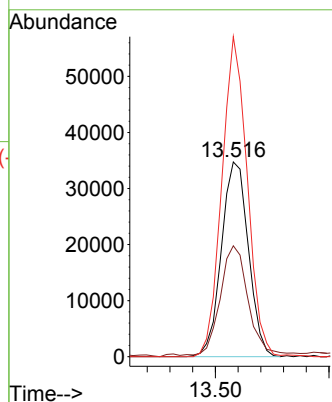
Tgt Ion:152 Resp: 57269

Ion Ratio Lower Upper

152 100

115 57.5 27.1 81.3

150 155.1 0.0 353.6



#73

Isopropylbenzene

Concen: 2.475 ug/l

RT: 12.422 min Scan# 1842

Delta R.T. -0.000 min

Lab File: VD077419.D

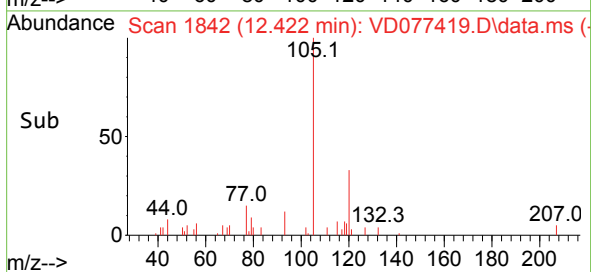
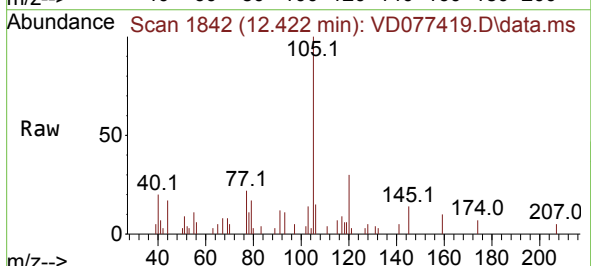
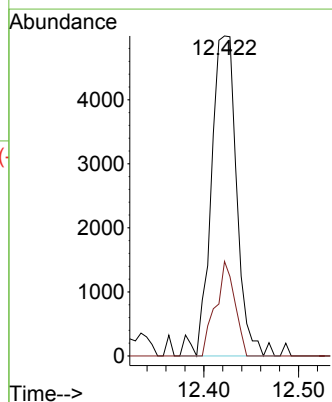
Acq: 25 Oct 2023 17:29

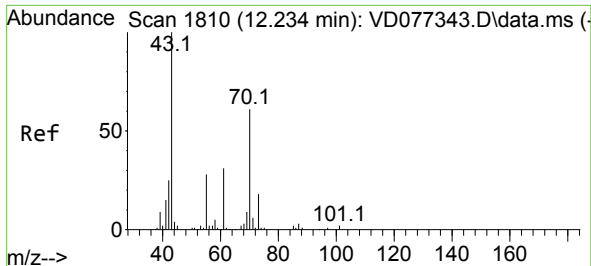
Tgt Ion:105 Resp: 9376

Ion Ratio Lower Upper

105 100

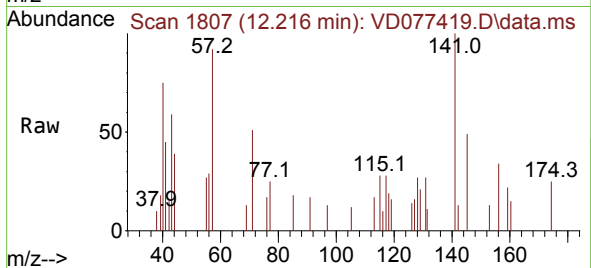
120 22.2 14.3 42.9



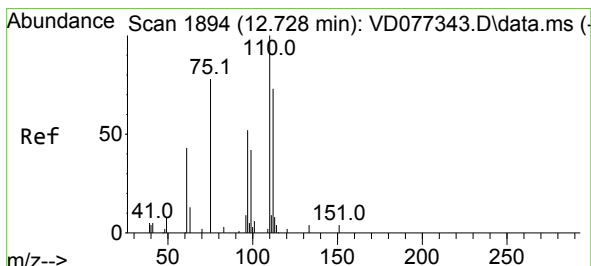
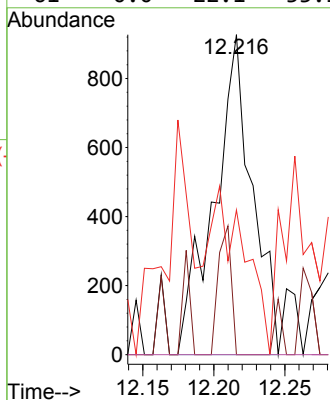
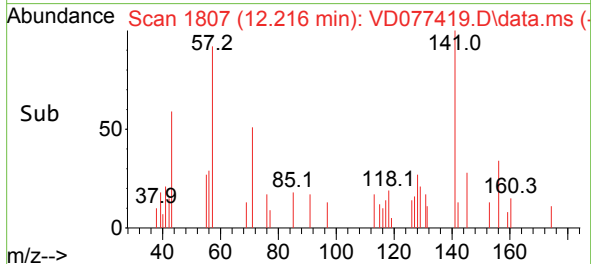


#74
N-amy1 acetate
Concen: 3.162 ug/l
RT: 12.216 min Scan# 1807
Delta R.T. -0.018 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

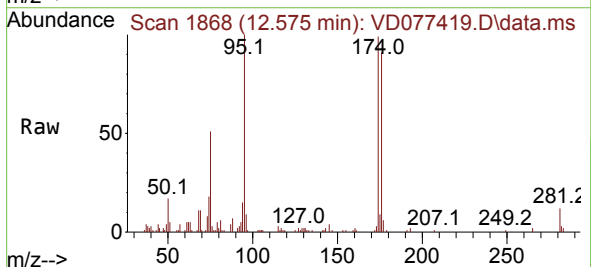
Instrument :
MSVOA_D
ClientSampleId :



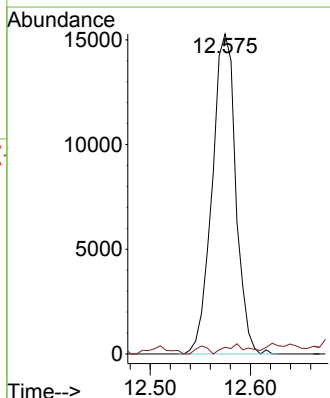
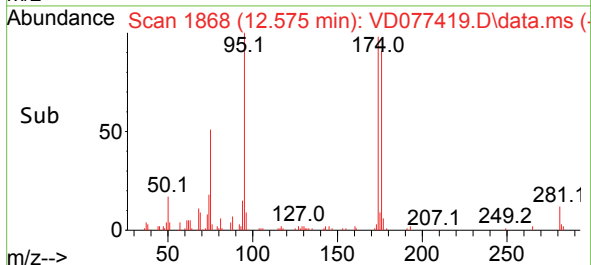
Tgt Ion: 43 Resp: 1723
Ion Ratio Lower Upper
43 100
70 13.7 45.0 67.4#
55 46.8 23.8 35.6#
61 0.0 22.1 33.1#

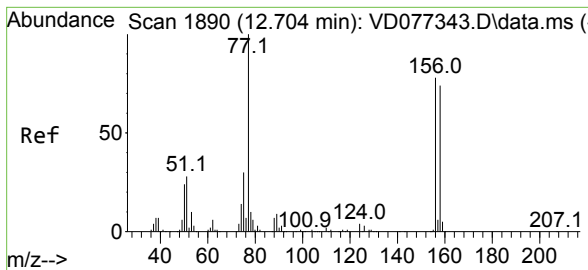


#76
1,2,3-Trichloropropane
Concen: 33.162 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.153 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29



Tgt Ion: 75 Resp: 25024
Ion Ratio Lower Upper
75 100
77 3.0 0.0 0.0#





#77

Bromobenzene

Concen: 8.563 ug/l

RT: 12.692 min Scan# 1888

Delta R.T. -0.012 min

Lab File: VD077419.D

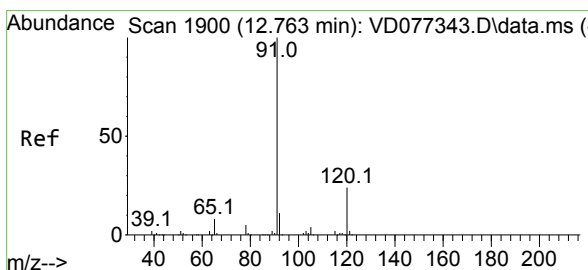
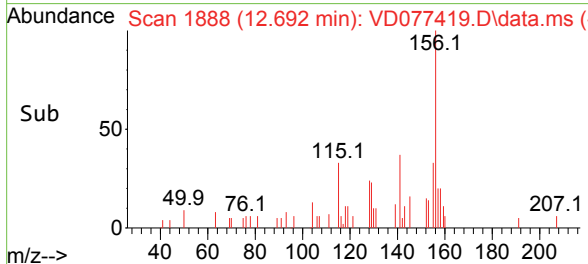
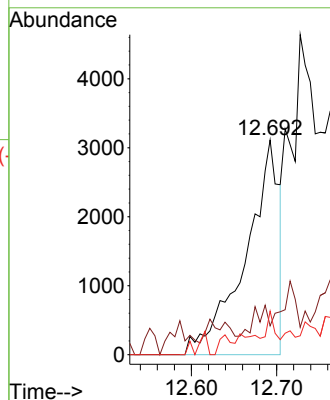
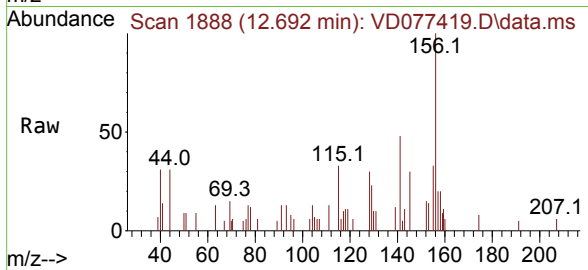
Acq: 25 Oct 2023 17:29

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:156	Resp:	8516
Ion Ratio	Lower	Upper
156	100	
77	5.7	76.8 230.4#
158	5.9	48.6 145.9#



#78

n-propylbenzene

Concen: 3.398 ug/l

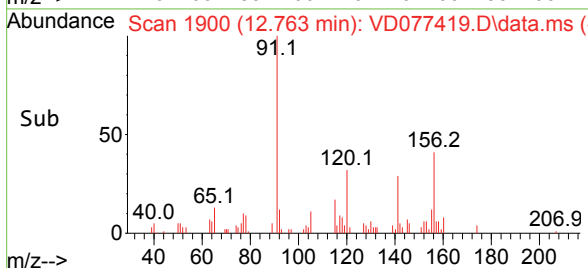
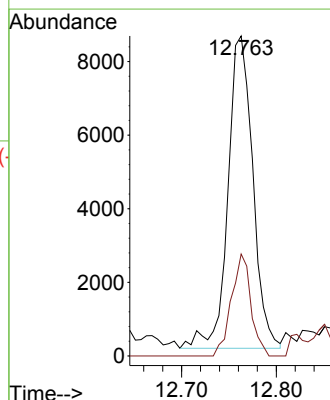
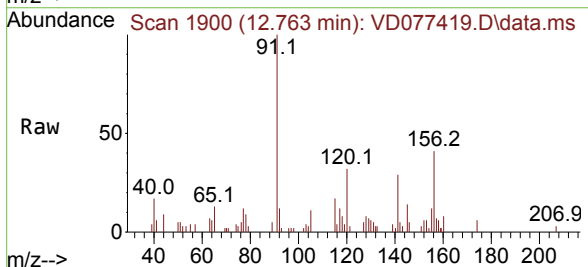
RT: 12.763 min Scan# 1900

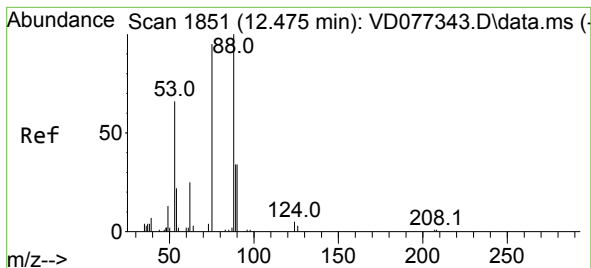
Delta R.T. -0.000 min

Lab File: VD077419.D

Acq: 25 Oct 2023 17:29

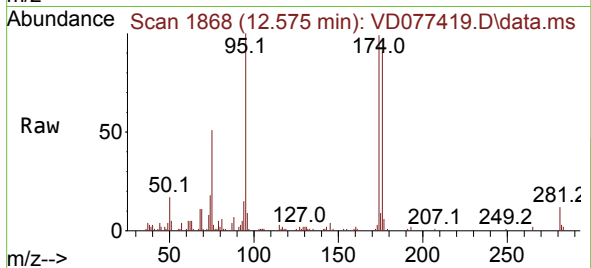
Tgt Ion: 91	Resp:	15504
Ion Ratio	Lower	Upper
91	100	
120	25.5	12.4 37.2



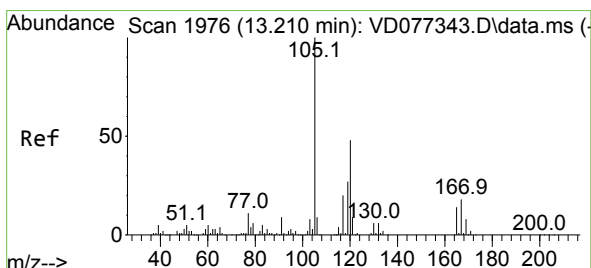
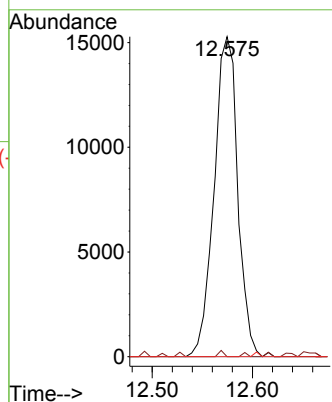
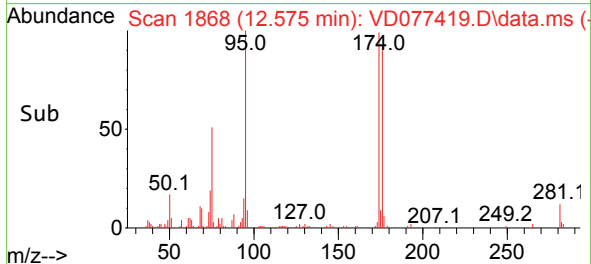


#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.084 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. 0.100 min
 Lab File: VD077419.D
 Acq: 25 Oct 2023 17:29

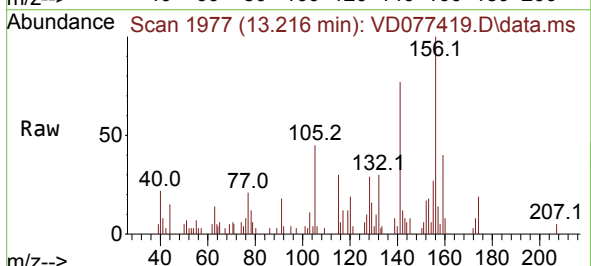
Instrument :
 MSVOA_D
 ClientSampleId :



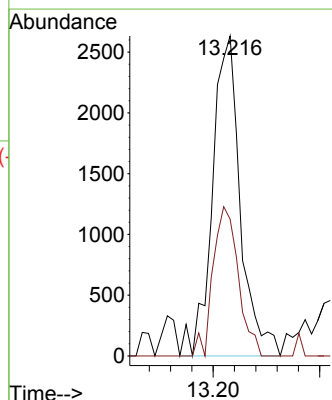
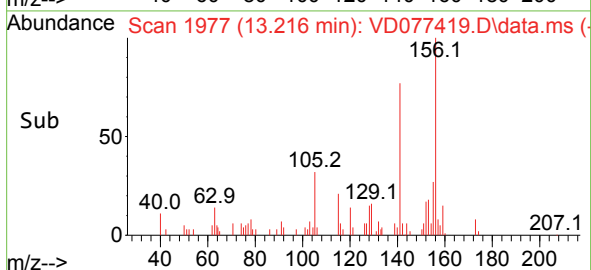
Tgt Ion: 75 Resp: 25024
 Ion Ratio Lower Upper
 75 100
 53 0.4 63.0 94.4#
 89 0.0 37.9 56.9#

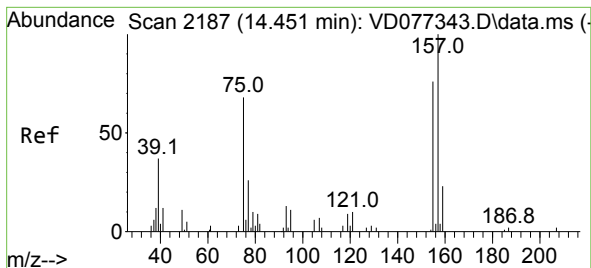


#84
 1,2,4-Trimethylbenzene
 Concen: 1.526 ug/l
 RT: 13.216 min Scan# 1977
 Delta R.T. 0.006 min
 Lab File: VD077419.D
 Acq: 25 Oct 2023 17:29



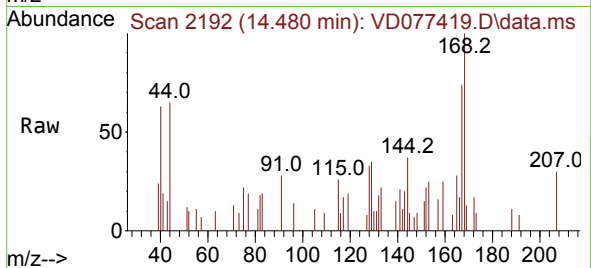
Tgt Ion: 105 Resp: 4802
 Ion Ratio Lower Upper
 105 100
 120 42.1 24.3 72.9



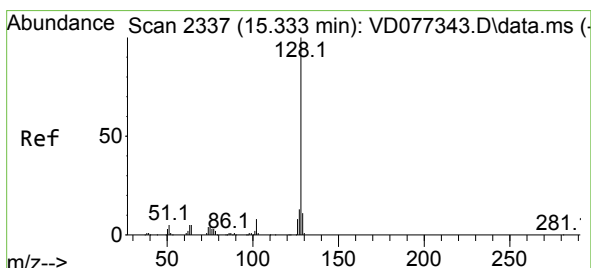
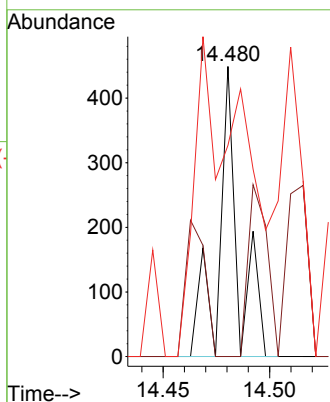
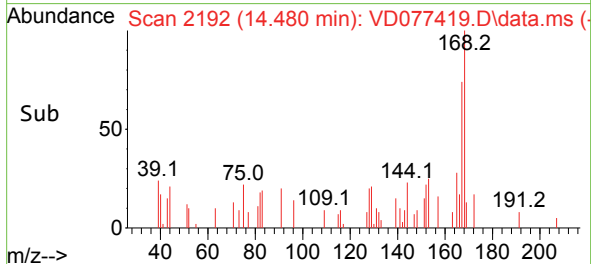


#92
1,2-Dibromo-3-Chloropropane
Concen: 3.395 ug/l
RT: 14.480 min Scan# 2187
Delta R.T. 0.029 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29

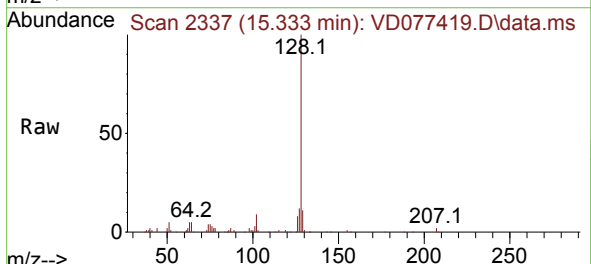
Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 75 Resp: 286
Ion Ratio Lower Upper
75 100
155 58.0 47.9 143.8
157 0.0 59.9 179.7#



#95
Naphthalene
Concen: 54.383 ug/l
RT: 15.333 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VD077419.D
Acq: 25 Oct 2023 17:29



Tgt Ion: 128 Resp: 101142
Ion Ratio Lower Upper
128 100
127 12.5 10.5 15.7
129 11.0 8.7 13.1

