

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD021524\
 Data File : VD078439.D
 Acq On : 15 Feb 2024 16:46
 Operator : RP/MD
 Sample : P1471-01
 Misc : 5.03G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 30992

Quant Time: Feb 16 02:37:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021324S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 14 01:16:20 2024
 Response via : Initial Calibration

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

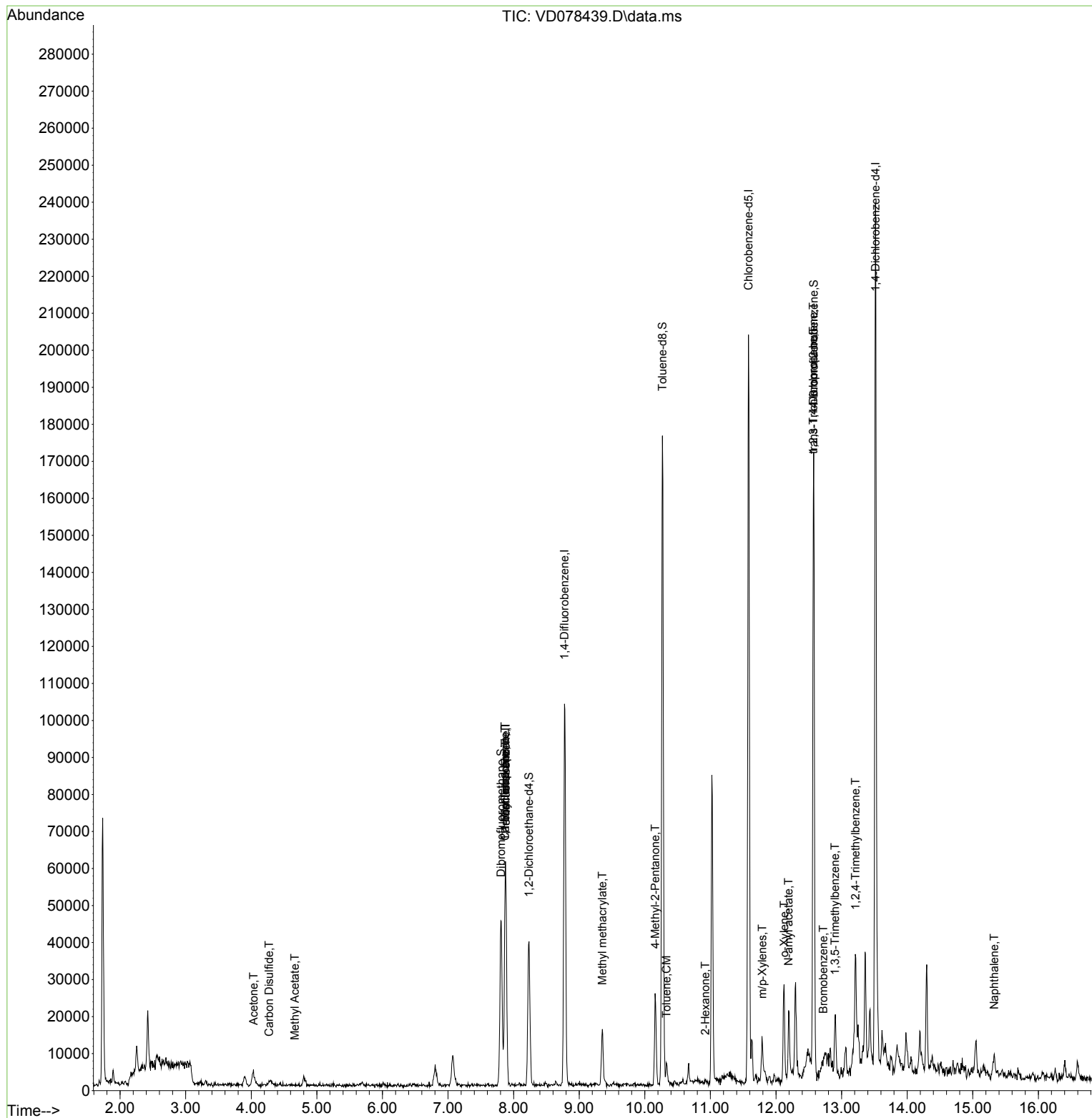
Internal Standards						
1) Pentafluorobenzene	7.881	168	47840	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	94975	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	120065	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	62908	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	29891	57.786	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	115.580%
35) Dibromofluoromethane	7.810	113	33486	55.505	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	111.000%
50) Toluene-d8	10.269	98	127709	52.918	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	105.840%
62) 4-Bromofluorobenzene	12.575	95	53019	75.494	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	150.980%#
Target Compounds						
					Qvalue	
16) Acetone	4.034	43	6236	41.985	ug/l #	83
17) Carbon Disulfide	4.269	76	2067	1.178	ug/l #	76
18) Methyl Acetate	4.664	43	148	4.312	ug/l #	42
20) Methylene Chloride	4.799	84	1177	Below Cal	#	80
25) 2-Butanone	7.081	43	2026	Below Cal	#	83
31) Cyclohexane	7.875	56	1325	1.514	ug/l #	60
36) 1,1-Dichloropropene	7.869	75	3942	4.206	ug/l #	44
38) Carbon Tetrachloride	7.869	117	4952	5.335	ug/l #	11
48) Methyl methacrylate	9.352	41	4490	13.911	ug/l #	15
51) 4-Methyl-2-Pentanone	10.157	43	14843	45.969	ug/l	93
52) Toluene	10.328	92	2724	1.590	ug/l	97
59) 2-Hexanone	10.922	43	904	3.725	ug/l	76
68) m/p-Xylenes	11.793	106	3191	1.892	ug/l	93
69) o-Xylene	12.128	106	6823	4.432	ug/l	98
74) N-amyl acetate	12.193	43	11382	14.243	ug/l #	38
76) 1,2,3-Trichloropropane	12.569	75	28105	52.624	ug/l #	100
77) Bromobenzene	12.722	156	2932	2.953	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.898	105	6824	1.945	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.569	75	28105	109.249	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.210	105	11829	3.323	ug/l	96
95) Naphthalene	15.328	128	4526	2.334	ug/l #	90

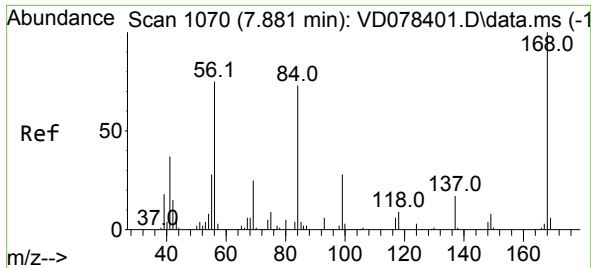
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

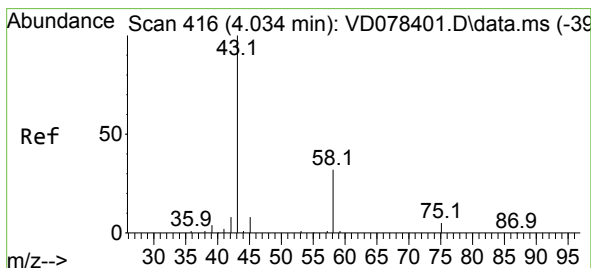
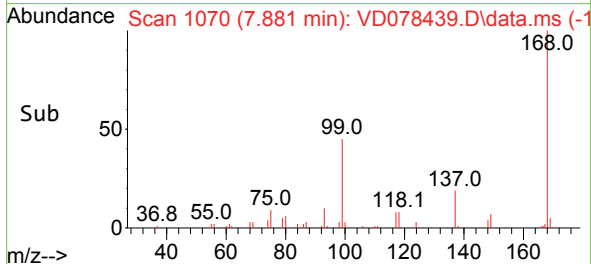
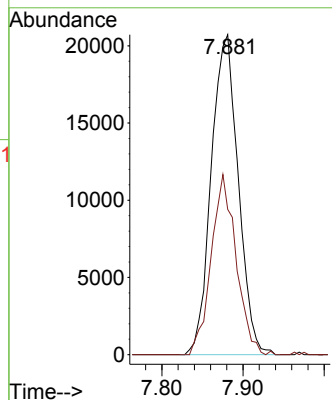
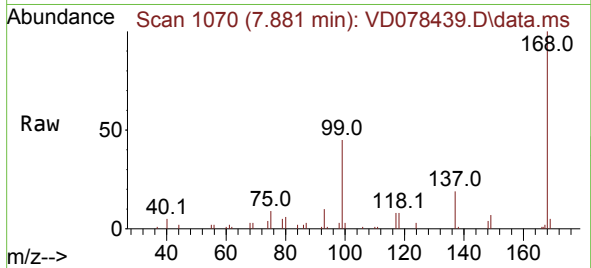




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

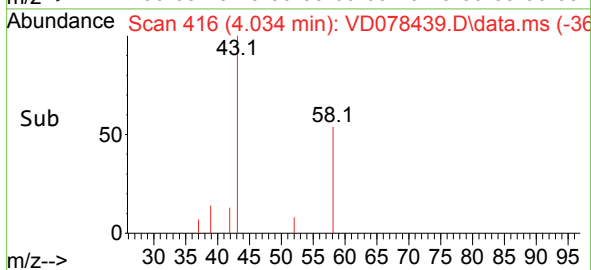
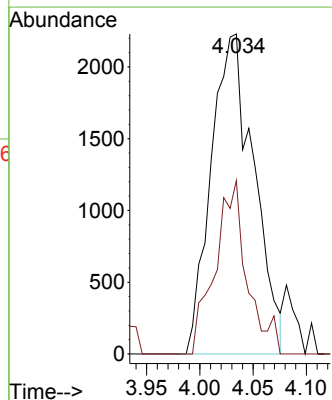
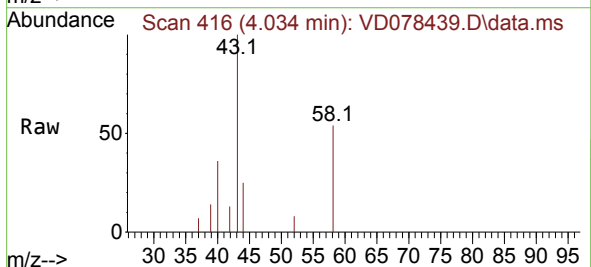
Instrument :
MSVOA_D
ClientSampleId :
30992

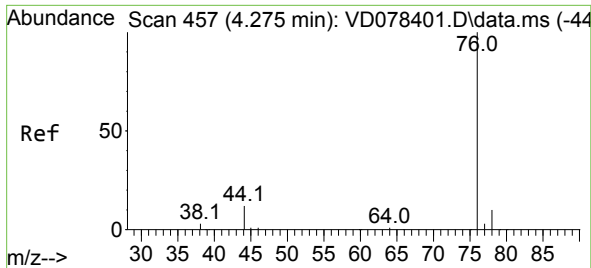
Tgt Ion:168 Resp: 47840
Ion Ratio Lower Upper
168 100
99 45.4 36.7 55.1



#16
Acetone
Concen: 41.985 ug/l
RT: 4.034 min Scan# 416
Delta R.T. 0.000 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 43 Resp: 6236
Ion Ratio Lower Upper
43 100
58 54.2 34.7 52.1#

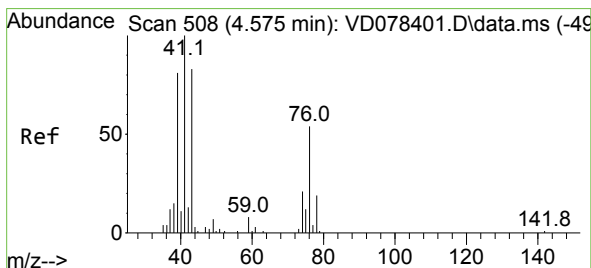
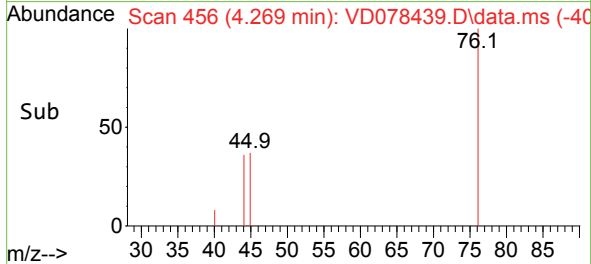
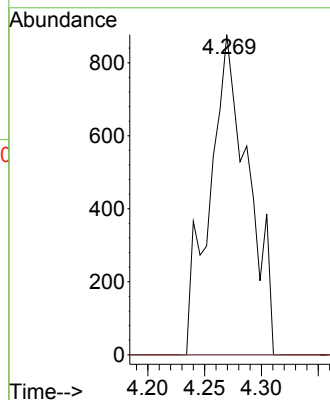
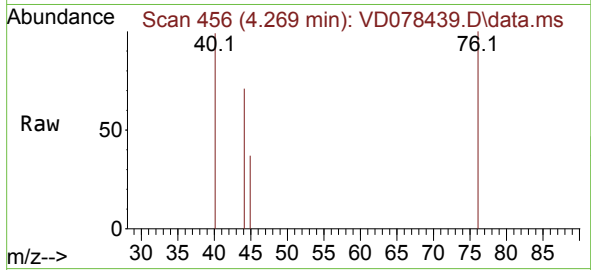




#17
Carbon Disulfide
Concen: 1.178 ug/l
RT: 4.269 min Scan# 411
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

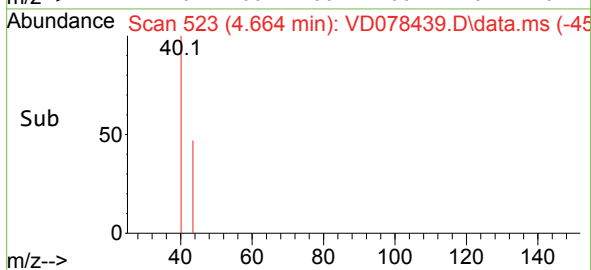
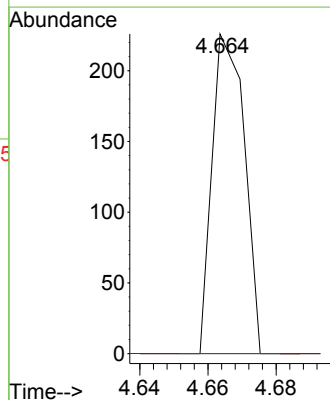
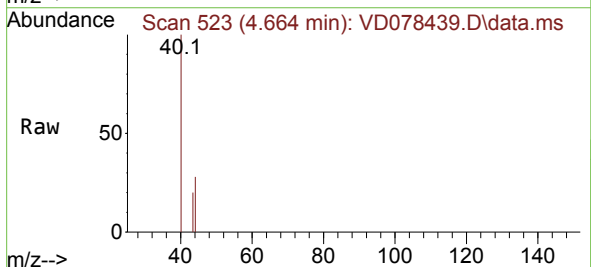
Instrument :
MSVOA_D
ClientSampleId :
30992

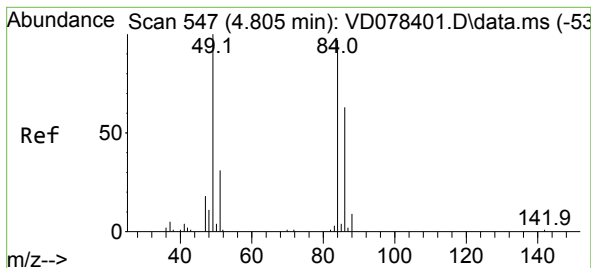
Tgt Ion: 76 Resp: 2067
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#



#18
Methyl Acetate
Concen: 4.312 ug/l
RT: 4.664 min Scan# 523
Delta R.T. 0.089 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 43 Resp: 148
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.799 min Scan# 54

Delta R.T. -0.006 min

Lab File: VD078439.D

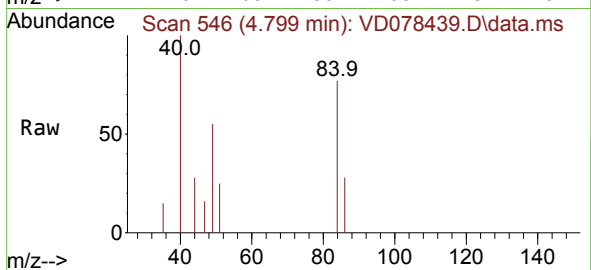
Acq: 15 Feb 2024 16:46

Instrument :

MSVOA_D

ClientSampleId :

30992



Tgt Ion: 84 Resp: 1177

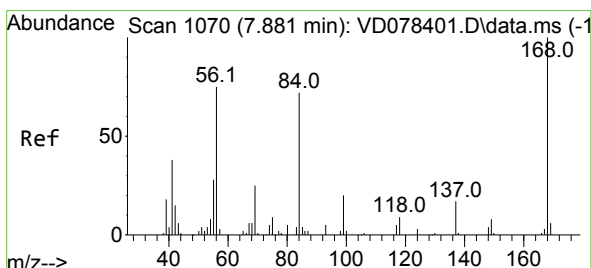
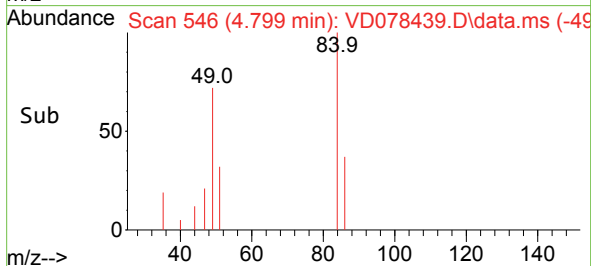
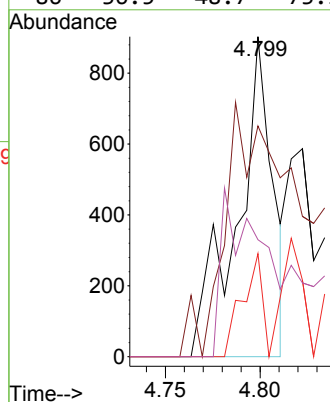
Ion Ratio Lower Upper

84 100

49 72.1 71.4 107.2

51 32.2 24.5 36.7

86 36.5 48.7 73.1#



#31

Cyclohexane

Concen: 1.514 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.006 min

Lab File: VD078439.D

Acq: 15 Feb 2024 16:46

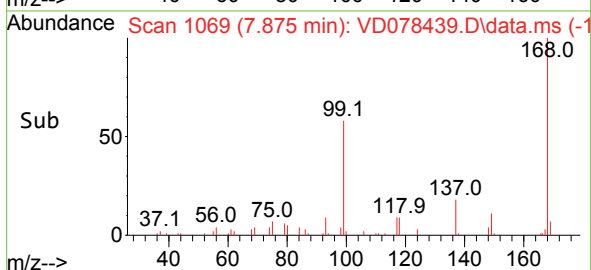
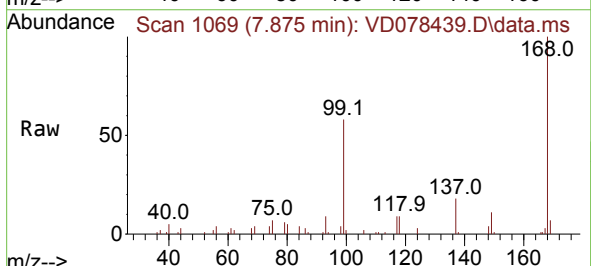
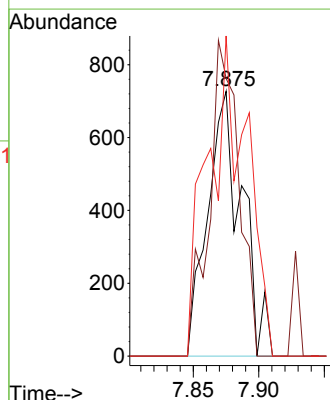
Tgt Ion: 56 Resp: 1325

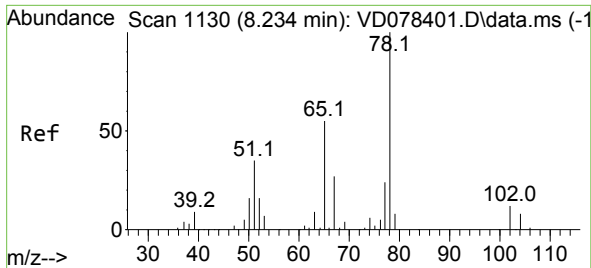
Ion Ratio Lower Upper

56 100

69 104.8 28.6 43.0#

84 120.9 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 57.786 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VD078439.D

Acq: 15 Feb 2024 16:46

Instrument :

MSVOA_D

ClientSampleId :

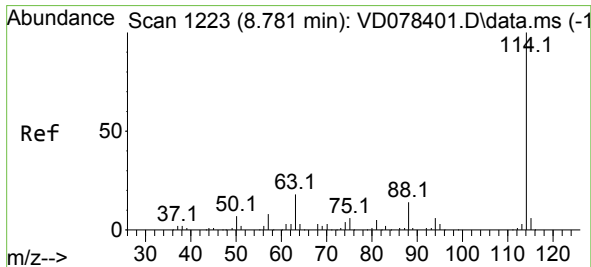
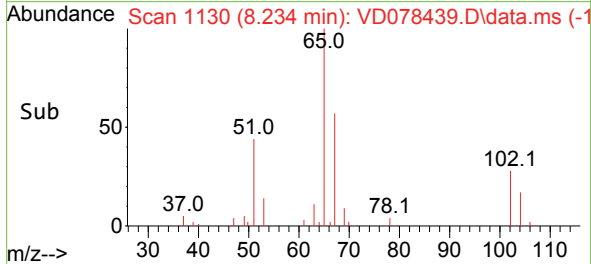
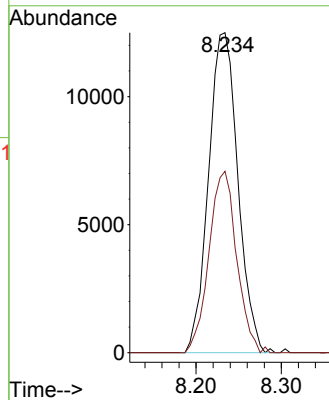
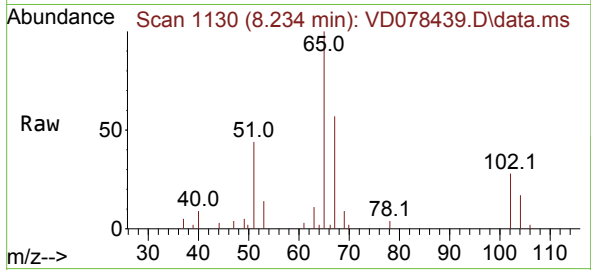
30992

Tgt Ion: 65 Resp: 29891

Ion Ratio Lower Upper

65 100

67 53.6 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD078439.D

Acq: 15 Feb 2024 16:46

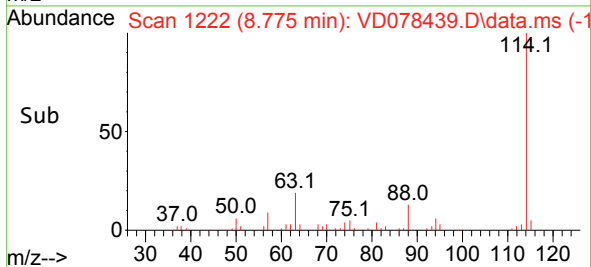
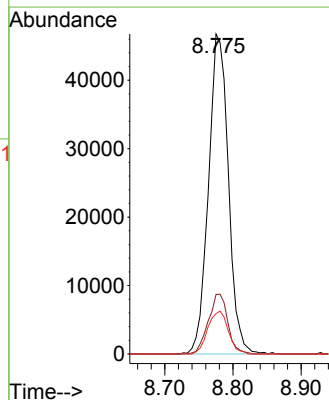
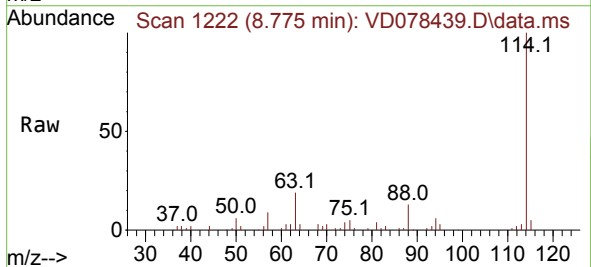
Tgt Ion: 114 Resp: 94975

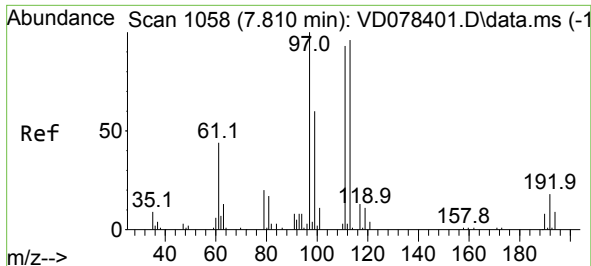
Ion Ratio Lower Upper

114 100

63 18.6 0.0 33.4

88 12.6 0.0 26.2





#35

Dibromofluoromethane

Concen: 55.505 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VD078439.D

Acq: 15 Feb 2024 16:46

Instrument :

MSVOA_D

ClientSampleId :

30992

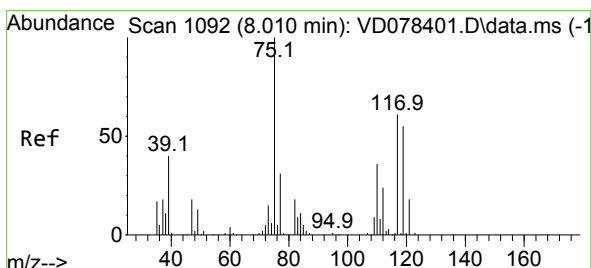
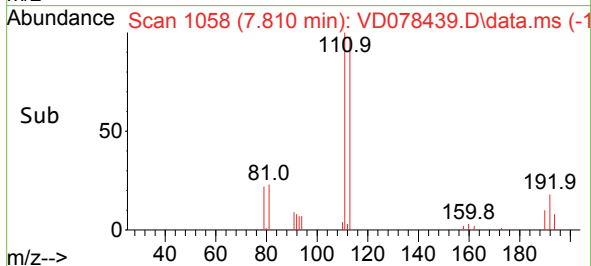
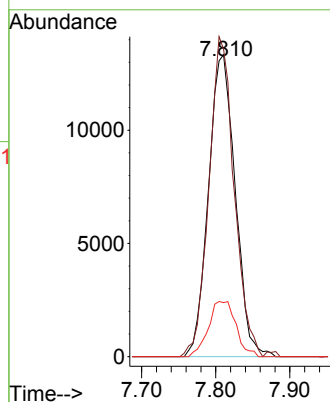
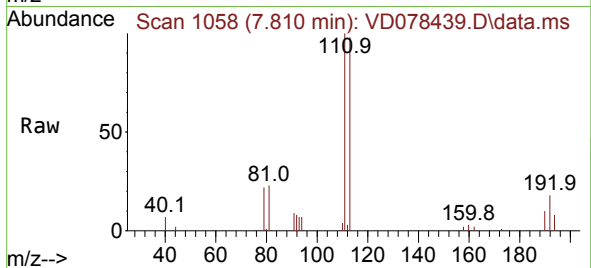
Tgt Ion:113 Resp: 33486

Ion Ratio Lower Upper

113 100

111 99.7 84.7 127.1

192 18.8 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.206 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VD078439.D

Acq: 15 Feb 2024 16:46

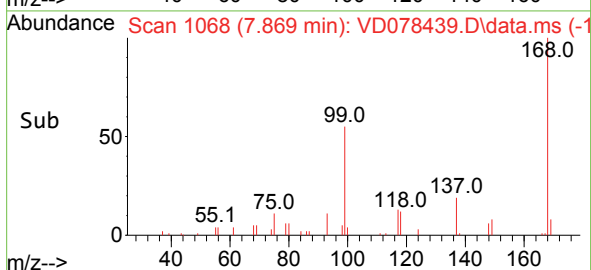
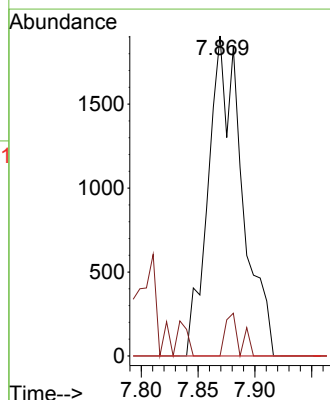
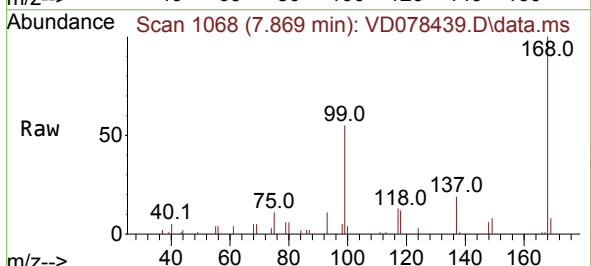
Tgt Ion: 75 Resp: 3942

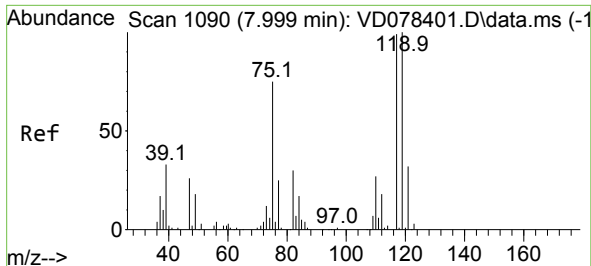
Ion Ratio Lower Upper

75 100

110 5.7 19.9 59.6#

77 0.0 24.7 37.1#

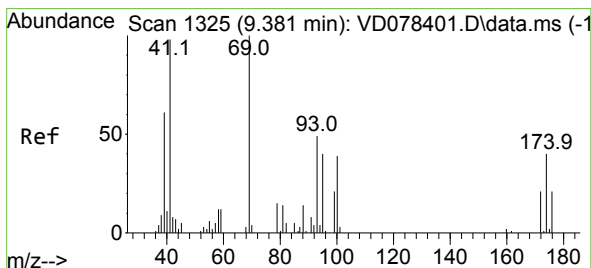
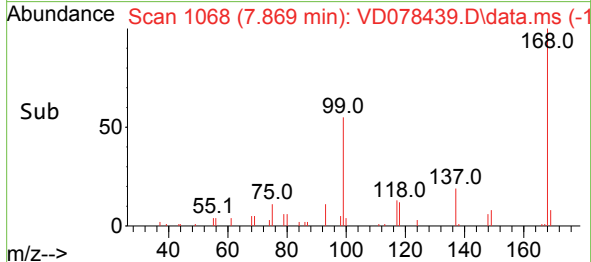
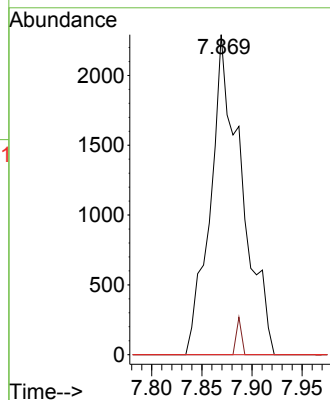
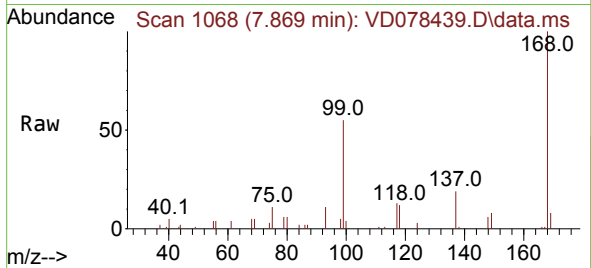




#38
Carbon Tetrachloride
Concen: 5.335 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.129 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

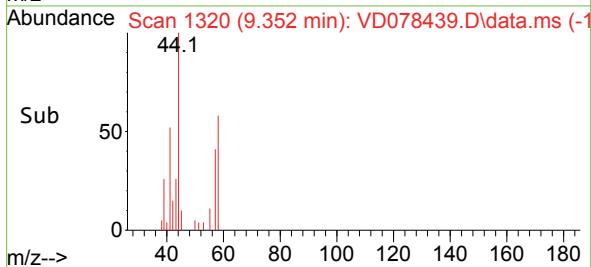
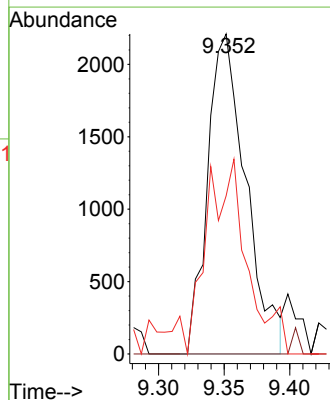
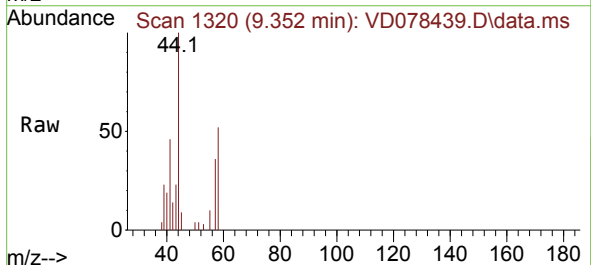
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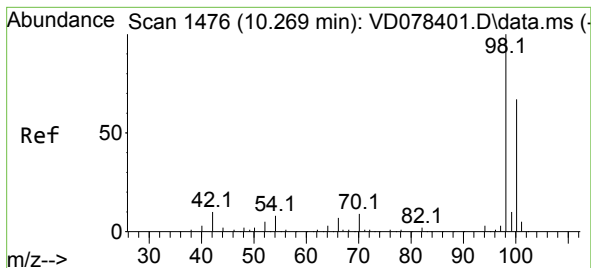
Tgt Ion: 117 Resp: 4952
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 24.2 36.2#



#48
Methyl methacrylate
Concen: 13.911 ug/l
RT: 9.352 min Scan# 1320
Delta R.T. -0.029 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 41 Resp: 4490
Ion Ratio Lower Upper
41 100
69 0.0 102.2 153.2#
39 65.7 41.4 62.2#

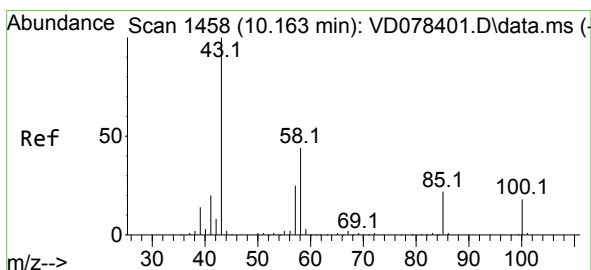
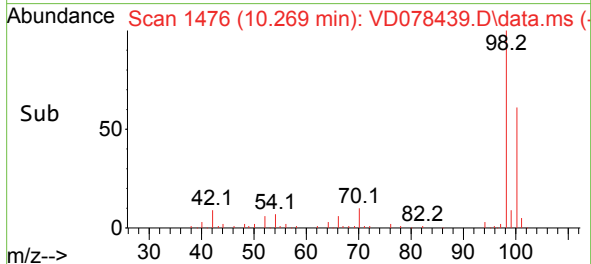
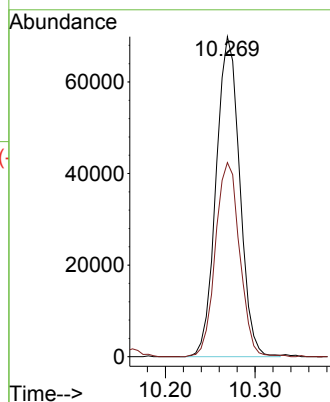
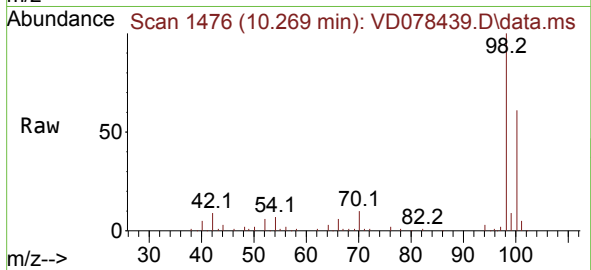




#50
Toluene-d8
Concen: 52.918 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

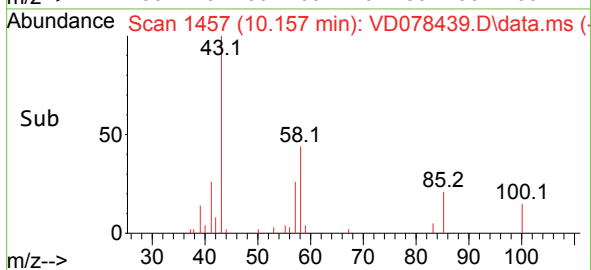
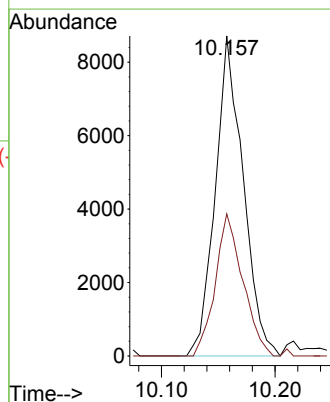
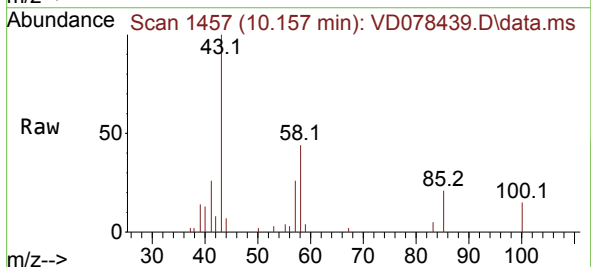
Instrument :
MSVOA_D
ClientSampleId :
30992

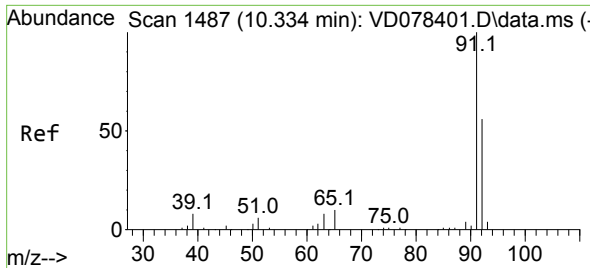
Tgt Ion: 98 Resp: 127709
Ion Ratio Lower Upper
98 100
100 62.2 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 45.969 ug/l
RT: 10.157 min Scan# 1457
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 43 Resp: 14843
Ion Ratio Lower Upper
43 100
58 43.9 38.9 58.3

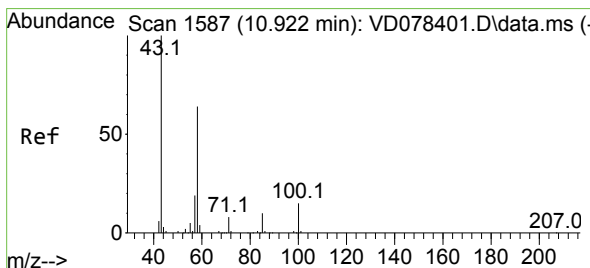
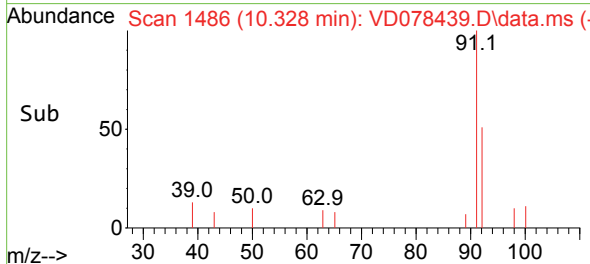
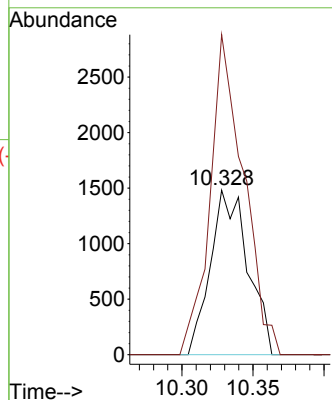
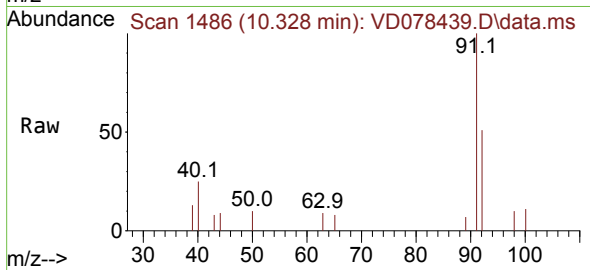




#52
Toluene
Concen: 1.590 ug/l
RT: 10.328 min Scan# 1486
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

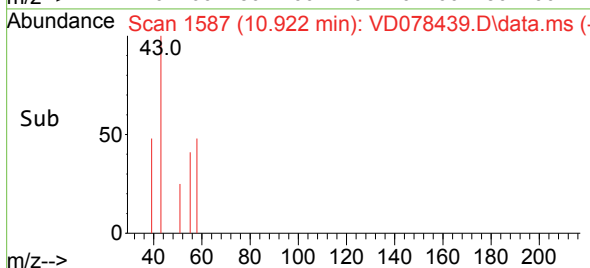
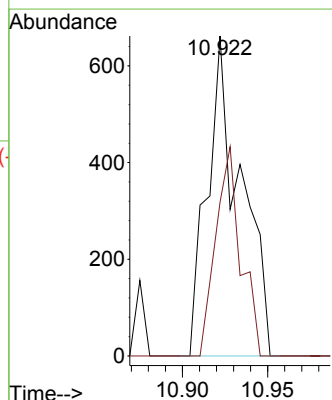
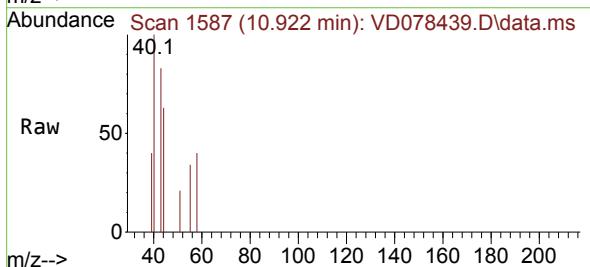
Instrument :
MSVOA_D
ClientSampleId :
30992

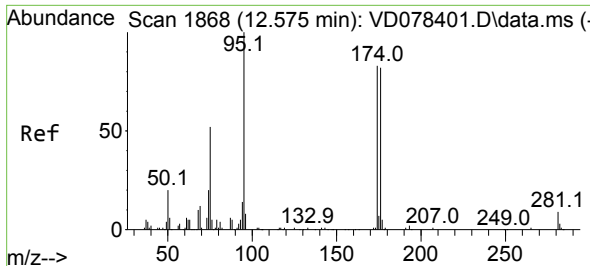
Tgt Ion: 92 Resp: 2724
Ion Ratio Lower Upper
92 100
91 174.2 143.0 214.4



#59
2-Hexanone
Concen: 3.725 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. 0.000 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 43 Resp: 904
Ion Ratio Lower Upper
43 100
58 48.6 34.1 102.2

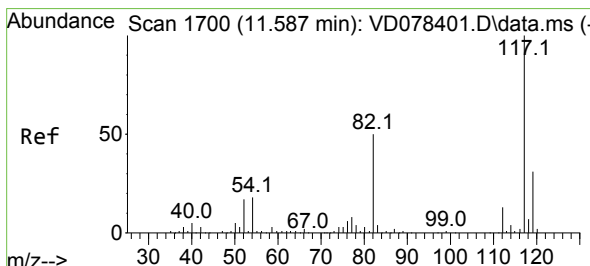
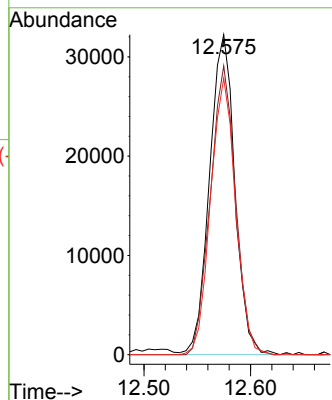
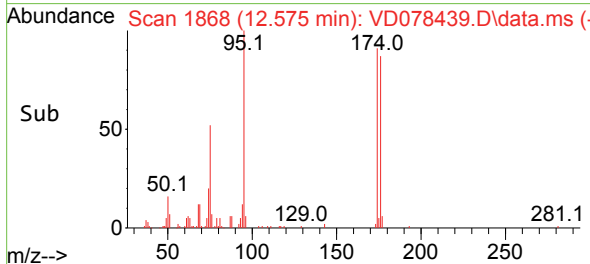
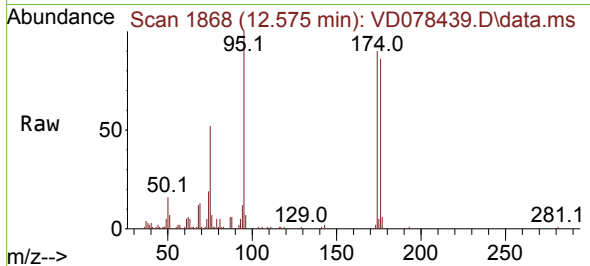




#62
4-Bromofluorobenzene
Concen: 75.494 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

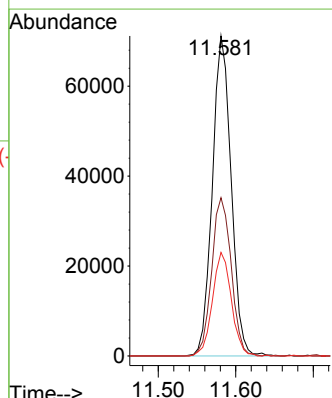
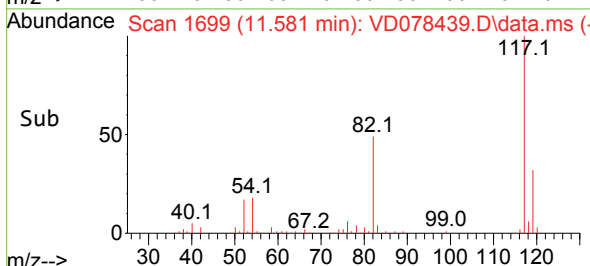
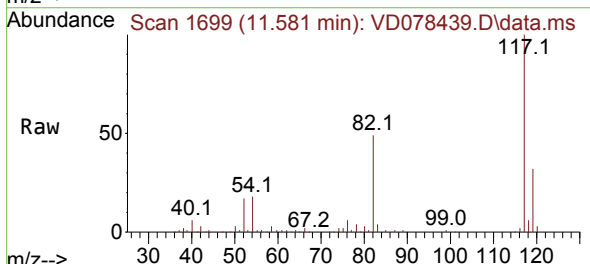
Instrument :
MSVOA_D
ClientSampleId :
30992

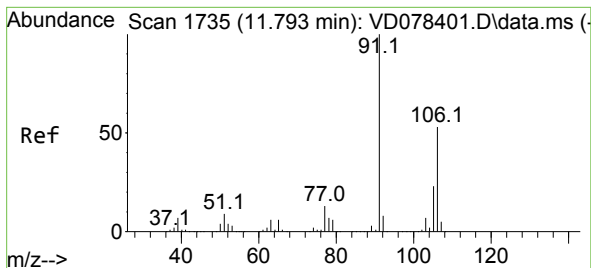
Tgt Ion:	95	Resp:	53019
Ion Ratio	Lower	Upper	
95	100		
174	90.1	0.0	201.8
176	85.6	0.0	191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion:	117	Resp:	120065
Ion Ratio	Lower	Upper	
117	100		
82	49.5	38.3	57.5
119	32.3	25.0	37.4

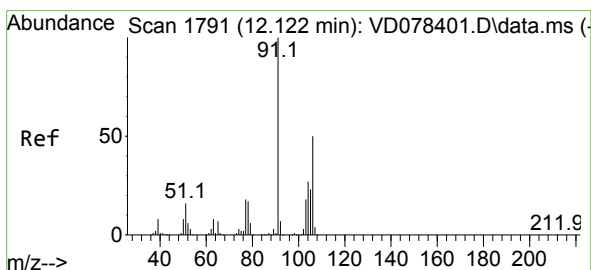
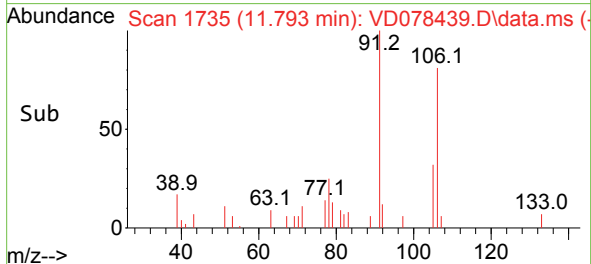
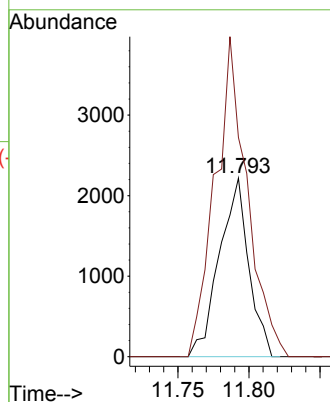
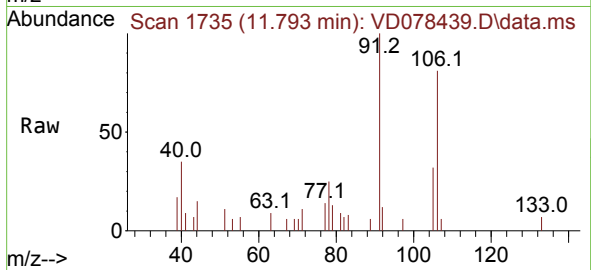




#68
m/p-Xylenes
Concen: 1.892 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

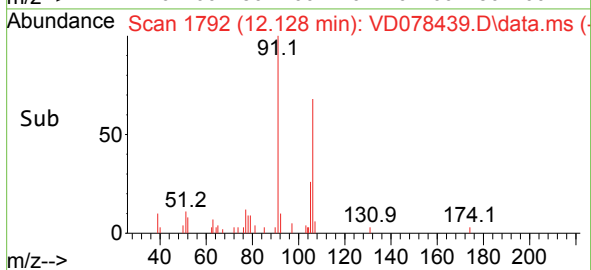
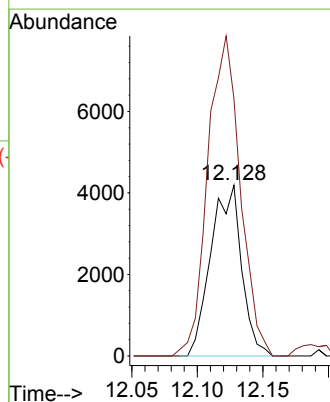
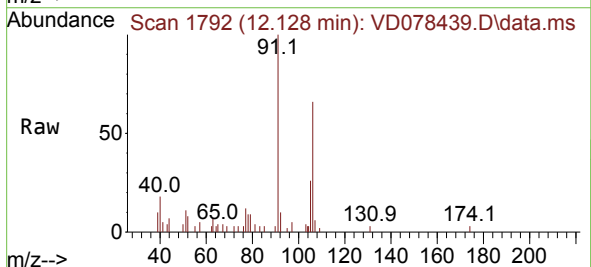
Instrument :
MSVOA_D
ClientSampleId :
30992

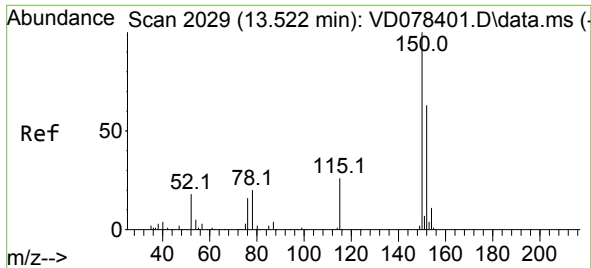
Tgt Ion:106 Resp: 3191
Ion Ratio Lower Upper
106 100
91 194.5 147.0 220.6



#69
o-Xylene
Concen: 4.432 ug/l
RT: 12.128 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

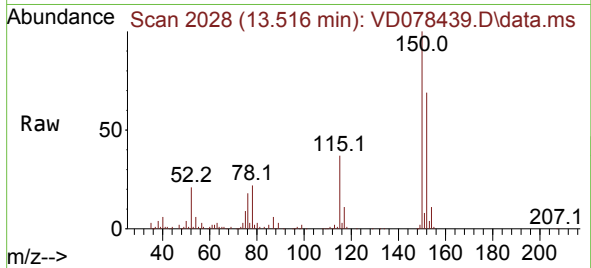
Tgt Ion:106 Resp: 6823
Ion Ratio Lower Upper
106 100
91 198.3 97.9 293.6



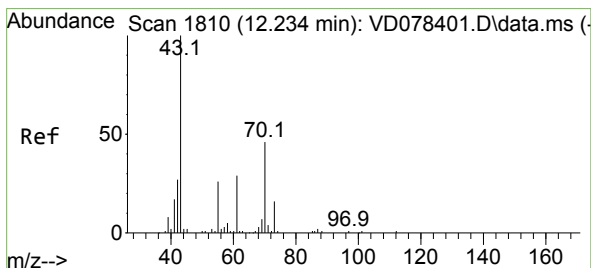
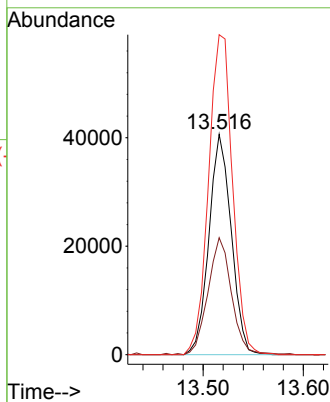
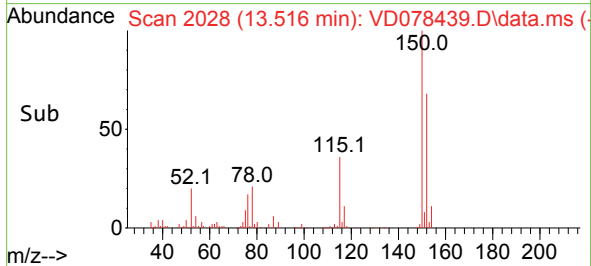


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 20
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Instrument :
MSVOA_D
ClientSampleId :
30992

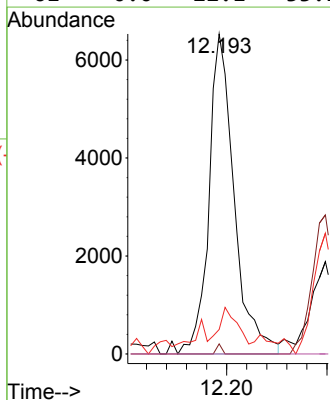
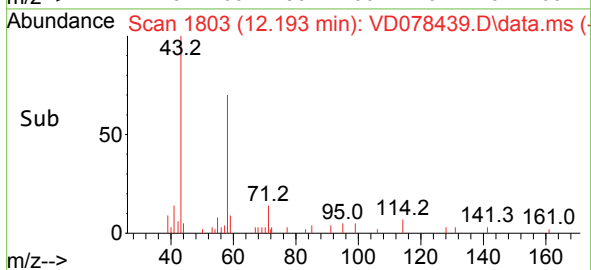
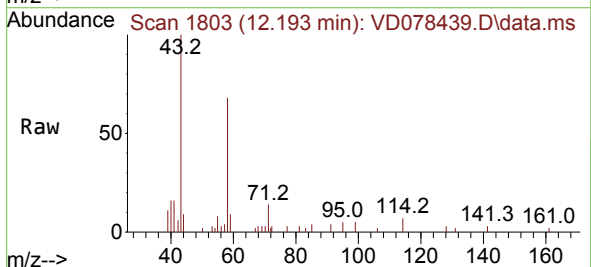


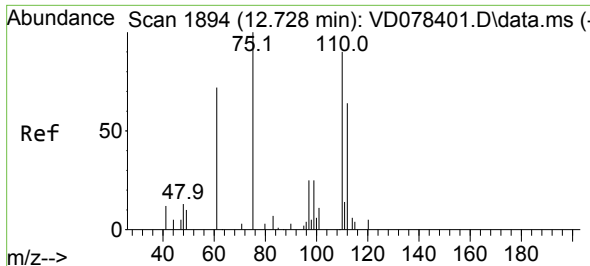
Tgt Ion:152 Resp: 62908
Ion Ratio Lower Upper
152 100
115 56.2 27.1 81.3
150 155.8 0.0 353.6



#74
N-ethyl acetate
Concen: 14.243 ug/l
RT: 12.193 min Scan# 1803
Delta R.T. -0.041 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 43 Resp: 11382
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 7.6 23.8 35.6#
61 0.0 22.1 33.1#

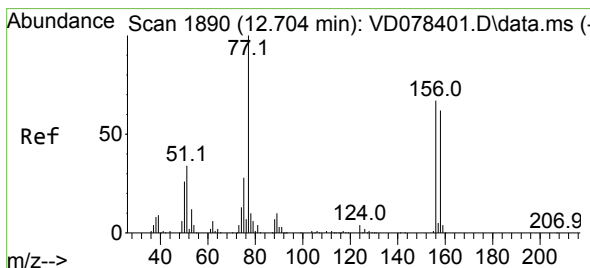
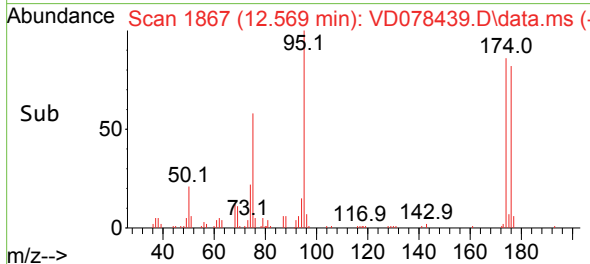
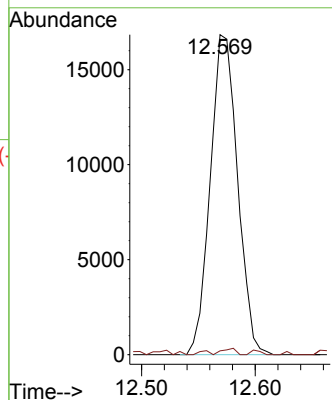
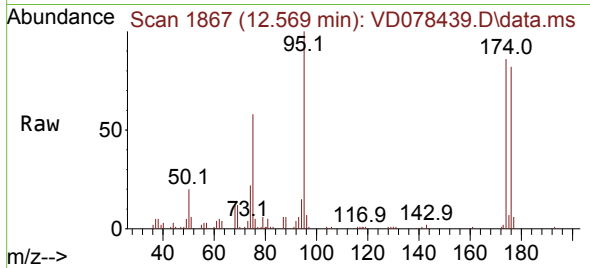




#76
1,2,3-Trichloropropane
Concen: 52.624 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.159 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

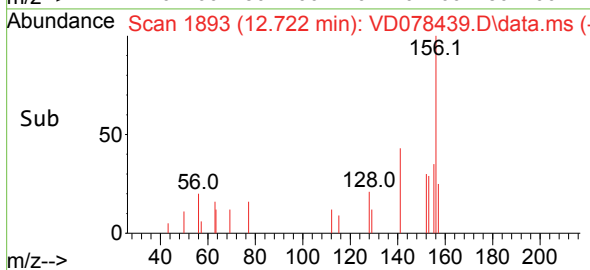
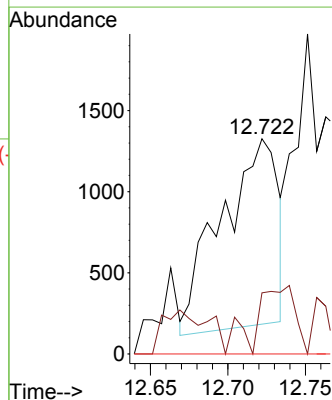
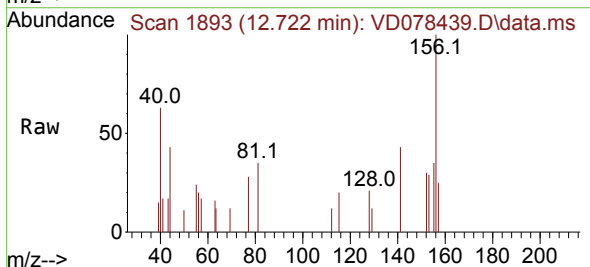
Instrument :
MSVOA_D
ClientSampleId :
30992

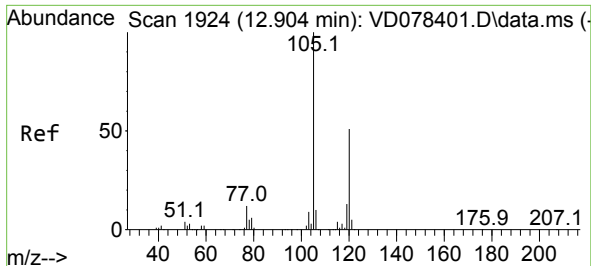
Tgt Ion: 75 Resp: 28105
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#77
Bromobenzene
Concen: 2.953 ug/l
RT: 12.722 min Scan# 1893
Delta R.T. 0.018 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 156 Resp: 2932
Ion Ratio Lower Upper
156 100
77 25.7 76.8 230.4#
158 0.0 48.6 145.9#

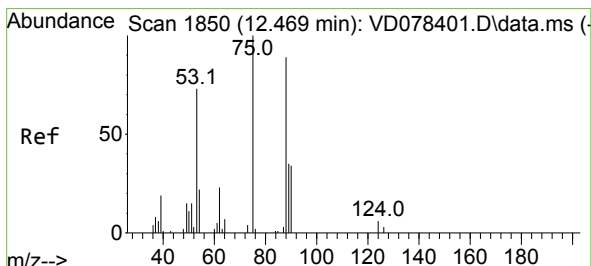
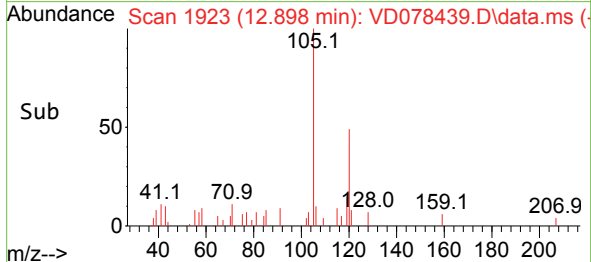
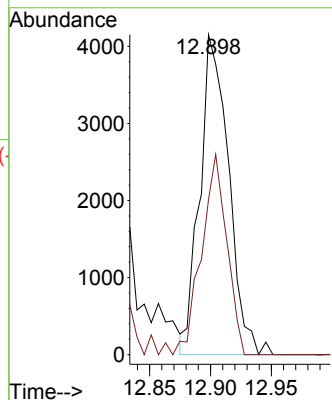
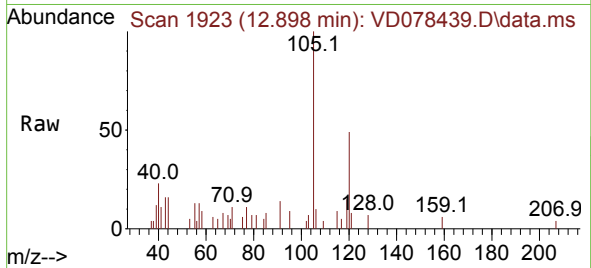




#80
1,3,5-Trimethylbenzene
Concen: 1.945 ug/l
RT: 12.898 min Scan# 1924
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

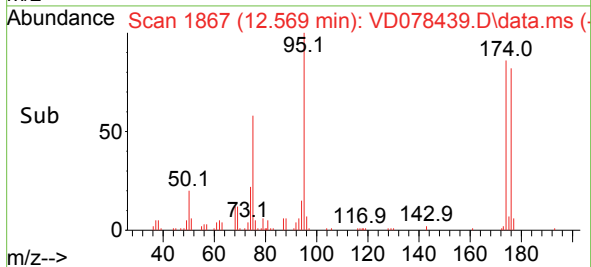
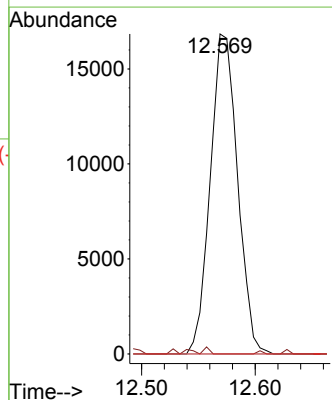
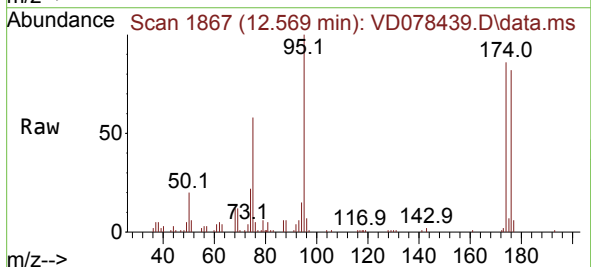
Instrument :
MSVOA_D
ClientSampleId :
30992

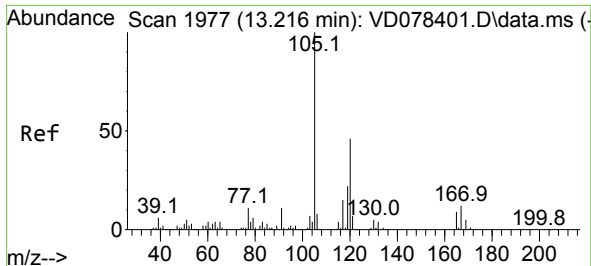
Tgt Ion:105 Resp: 6824
Ion Ratio Lower Upper
105 100
120 55.0 26.4 79.2



#81
trans-1,4-Dichloro-2-butene
Concen: 109.249 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion: 75 Resp: 28105
Ion Ratio Lower Upper
75 100
53 0.5 63.0 94.4#
89 0.0 37.9 56.9#

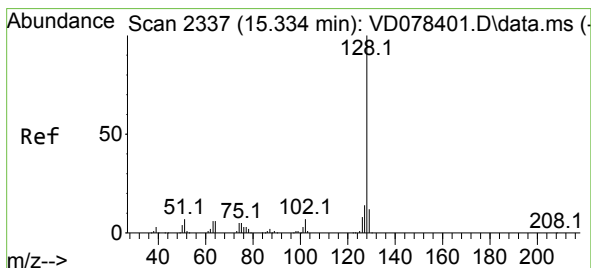
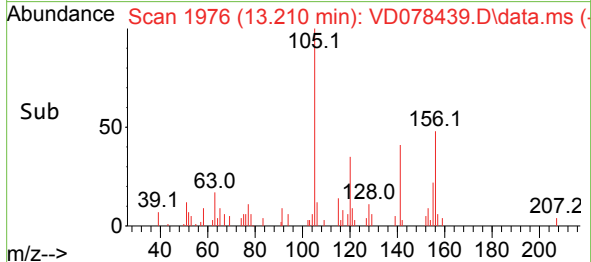
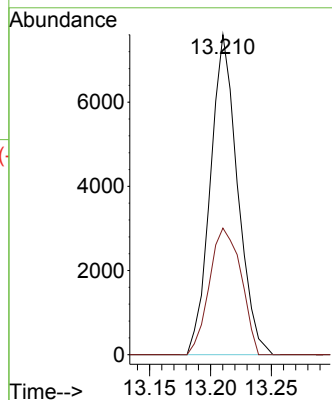
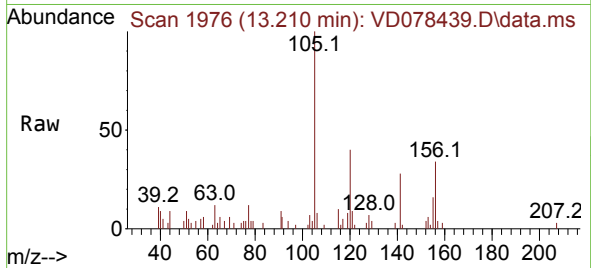




#84
1,2,4-Trimethylbenzene
Concen: 3.323 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Instrument :
MSVOA_D
ClientSampleId :
30992

Tgt Ion:105 Resp: 11829
Ion Ratio Lower Upper
105 100
120 46.0 24.3 72.9



#95
Naphthalene
Concen: 2.334 ug/l
RT: 15.328 min Scan# 2336
Delta R.T. -0.006 min
Lab File: VD078439.D
Acq: 15 Feb 2024 16:46

Tgt Ion:128 Resp: 4526
Ion Ratio Lower Upper
128 100
127 15.4 10.5 15.7
129 16.8 8.7 13.1#

