

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072924\
 Data File : VD079444.D
 Acq On : 29 Jul 2024 19:02
 Operator : RP/MD
 Sample : VIBLK
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 30 03:07:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072924S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 02:34:50 2024
 Response via : Initial Calibration

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

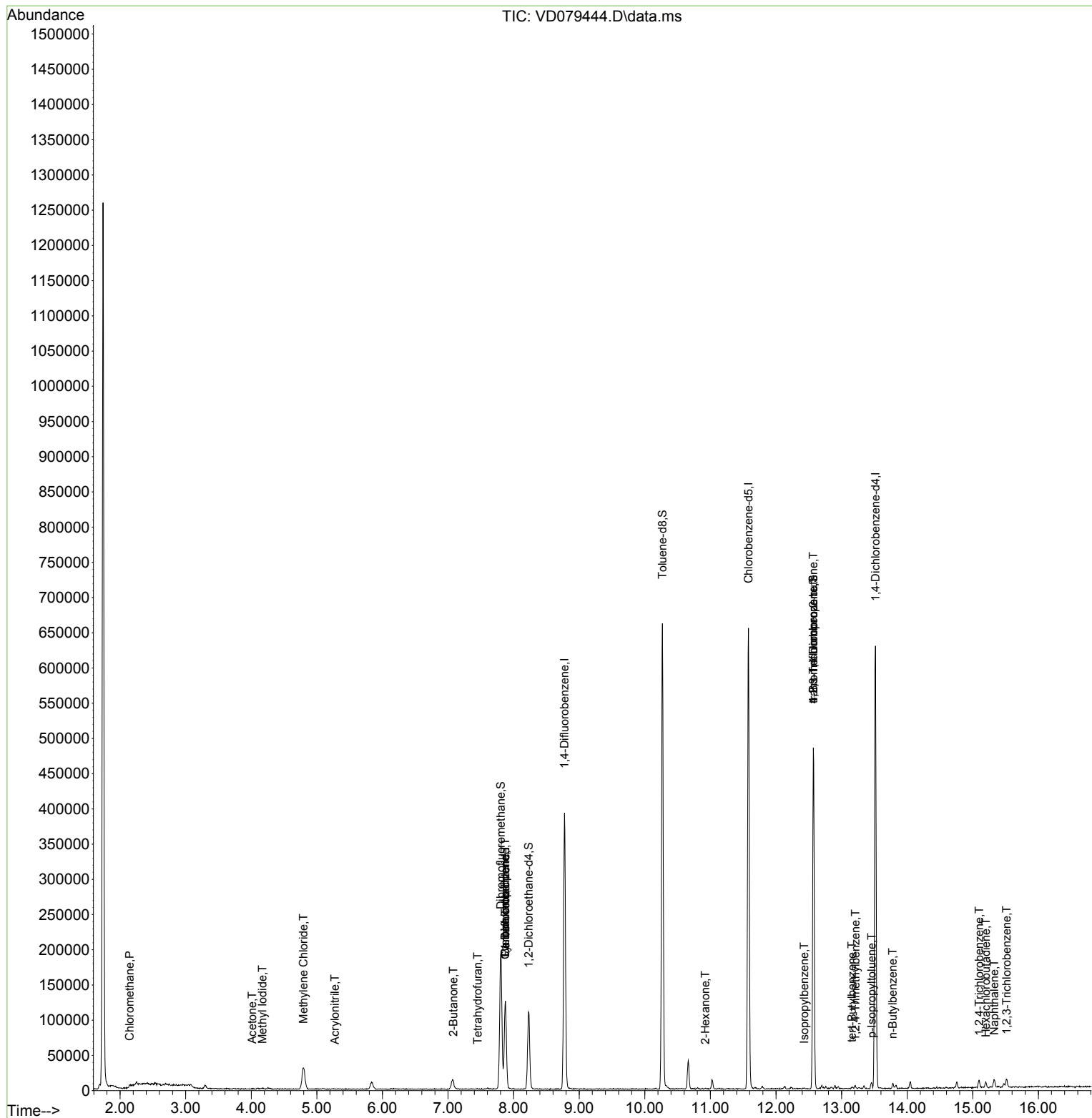
Internal Standards						
1) Pentafluorobenzene	7.875	168	99448	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	357023	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	390353	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	179078	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	84870	84.005	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 168.000%#	
35) Dibromofluoromethane	7.805	113	145649	60.273	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 120.540%	
50) Toluene-d8	10.269	98	468402	49.914	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.820%	
62) 4-Bromofluorobenzene	12.569	95	145045	53.412	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 106.820%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.146	50	2090	1.456	ug/l #	82
5) Bromomethane	2.693	94	2305	Below Cal		97
10) Methyl Iodide	4.170	142	1683	1.943	ug/l #	56
11) Tert butyl alcohol	5.052	59	66	Below Cal	#	86
13) Acrolein	3.793	56	140	Below Cal	#	1
15) Acrylonitrile	5.275	53	312	1.302	ug/l #	25
16) Acetone	4.017	43	492	2.506	ug/l #	37
20) Methylene Chloride	4.793	84	25002	2.016	ug/l	92
25) 2-Butanone	7.081	43	532	1.911	ug/l #	42
29) Tetrahydrofuran	7.452	42	175	1.014	ug/l #	21
31) Cyclohexane	7.869	56	2669	1.591	ug/l #	54
36) 1,1-Dichloropropene	7.869	75	8272	2.508	ug/l #	42
38) Carbon Tetrachloride	7.875	117	9998	2.884	ug/l #	18
59) 2-Hexanone	10.922	43	1217	1.345	ug/l #	53
73) Isopropylbenzene	12.428	105	1239	3.713	ug/l	84
76) 1,2,3-Trichloropropane	12.569	75	74867	47.653	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	74867	91.222	ug/l #	19
83) tert-Butylbenzene	13.157	119	2086	3.828	ug/l #	75
84) 1,2,4-Trimethylbenzene	13.210	105	1957	3.591	ug/l	89
86) p-Isopropyltoluene	13.457	119	2991	4.106	ug/l	100
89) n-Butylbenzene	13.781	91	4058	4.106	ug/l	91
93) 1,2,4-Trichlorobenzene	15.098	180	4010	1.197	ug/l	93
94) Hexachlorobutadiene	15.198	225	1914	1.059	ug/l	96
95) Naphthalene	15.328	128	11843	2.043	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.516	180	5049	1.714	ug/l	96

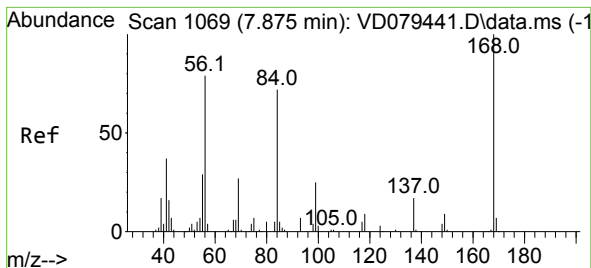
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072924S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 30 02:34:50 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 10

Delta R.T. 0.000 min

Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

Instrument :

MSVOA_D

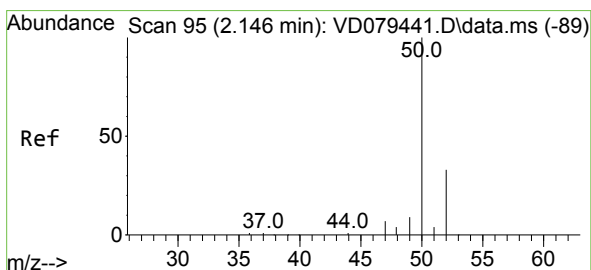
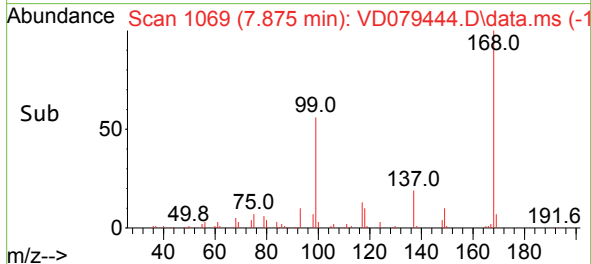
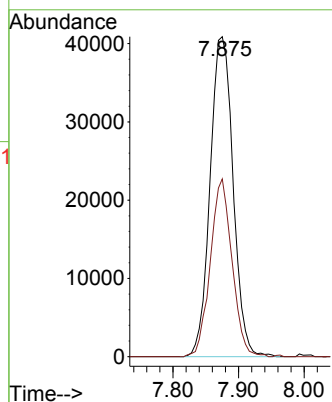
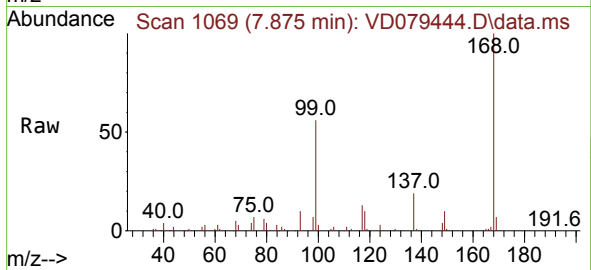
ClientSampleId :

Tgt Ion:168 Resp: 99448

Ion Ratio Lower Upper

168 100

99 55.6 41.1 61.7



#3

Chloromethane

Concen: 1.456 ug/l

RT: 2.146 min Scan# 95

Delta R.T. 0.000 min

Lab File: VD079444.D

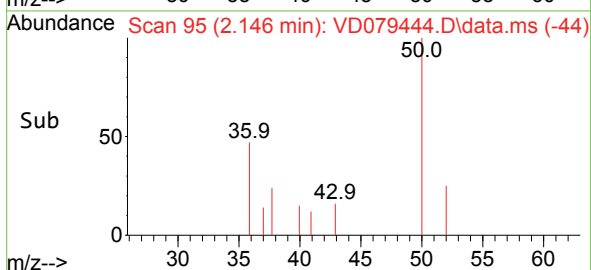
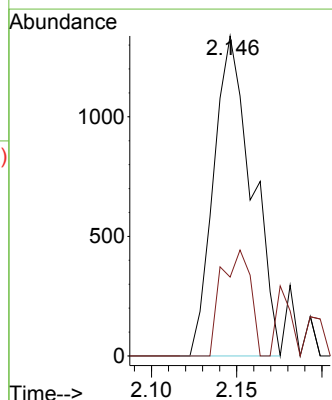
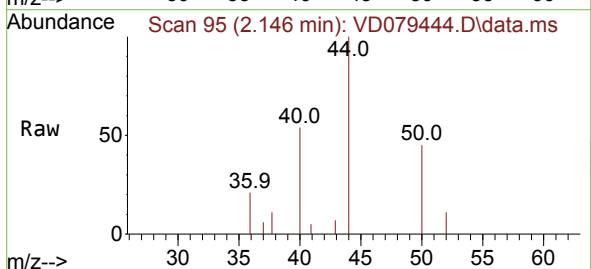
Acq: 29 Jul 2024 19:02

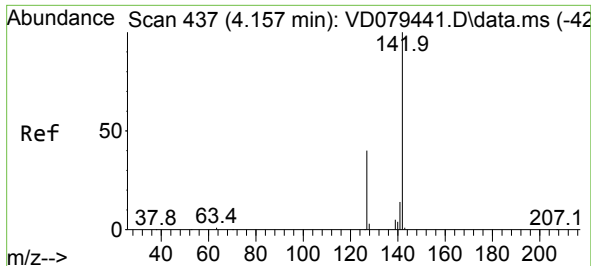
Tgt Ion: 50 Resp: 2090

Ion Ratio Lower Upper

50 100

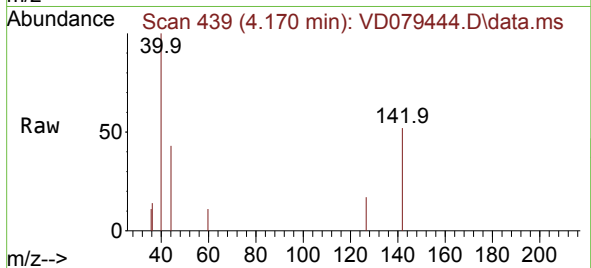
52 24.7 28.2 42.2#



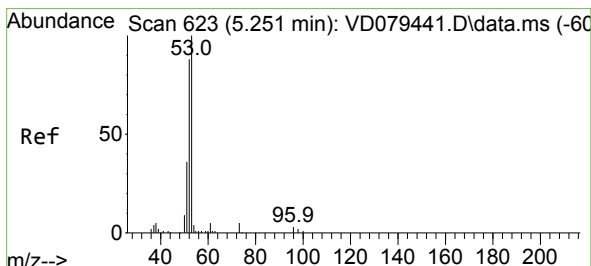
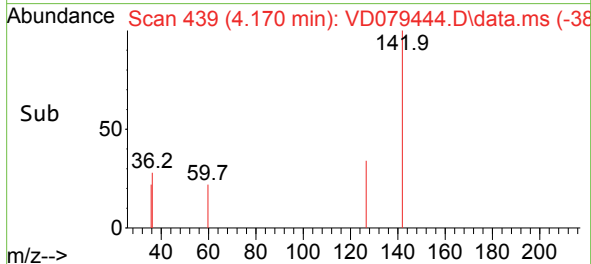
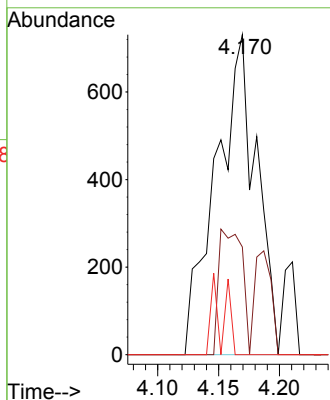


#10
Methyl Iodide
Concen: 1.943 ug/l
RT: 4.170 min Scan# 41
Delta R.T. 0.013 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Instrument :
MSVOA_D
ClientSampleId :

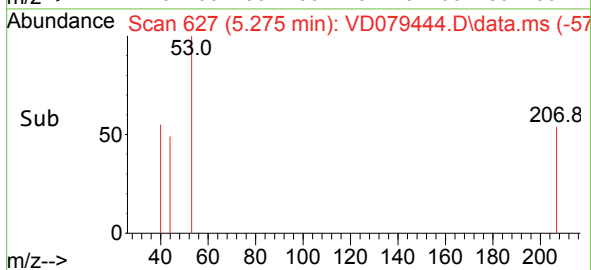
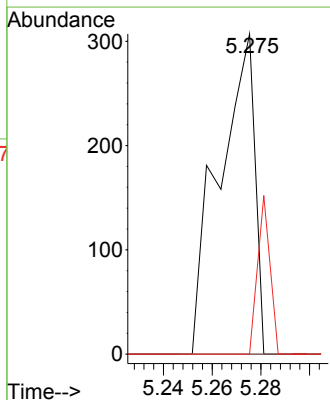
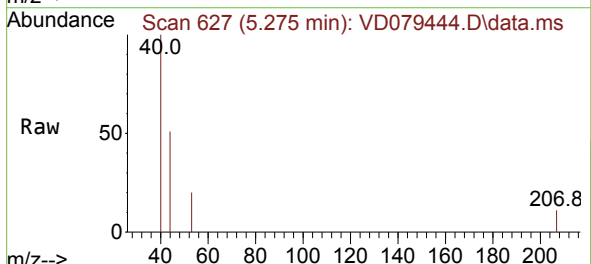


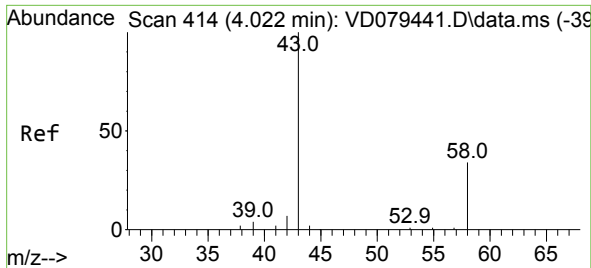
Tgt Ion:142 Resp: 1683
Ion Ratio Lower Upper
142 100
127 13.3 34.2 51.4#
141 0.0 11.7 17.5#



#15
Acrylonitrile
Concen: 1.302 ug/l
RT: 5.275 min Scan# 627
Delta R.T. 0.024 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Tgt Ion: 53 Resp: 312
Ion Ratio Lower Upper
53 100
52 0.0 67.7 101.5#
51 17.3 28.6 42.8#

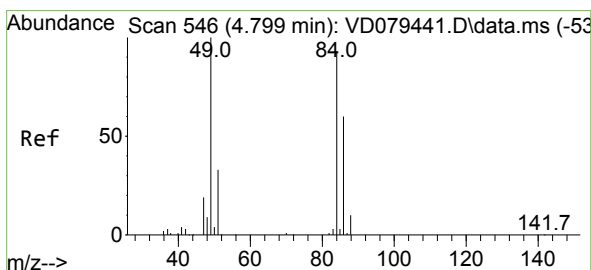
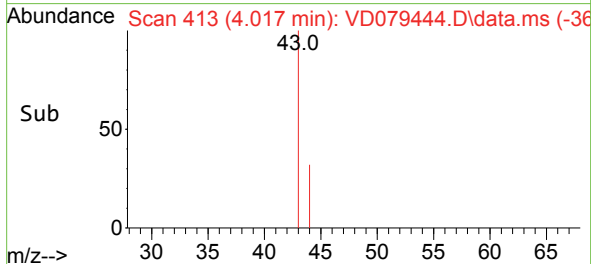
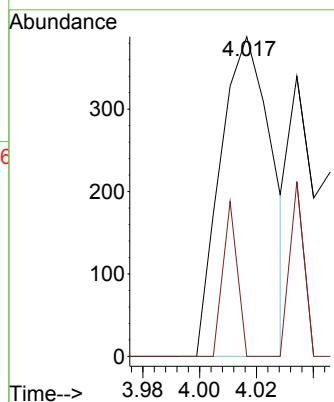
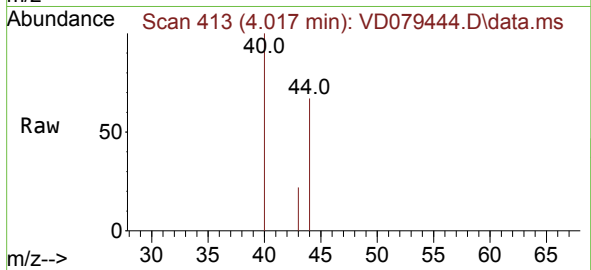




#16
Acetone
Concen: 2.506 ug/l
RT: 4.017 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

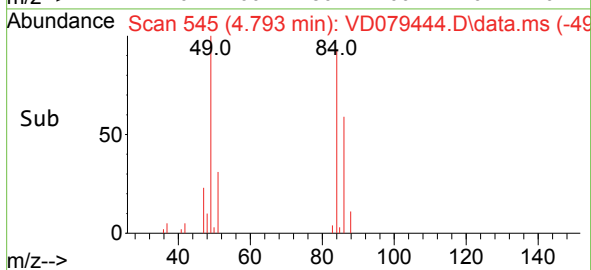
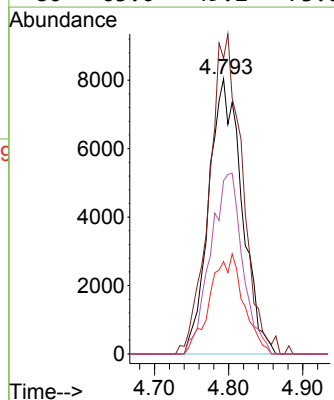
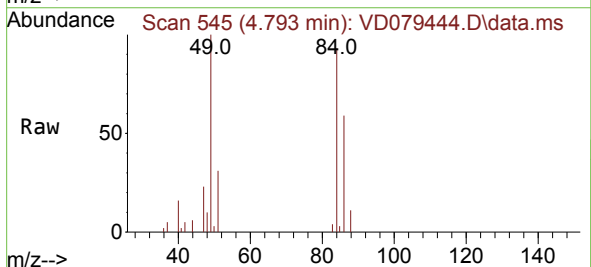
Instrument :
MSVOA_D
ClientSampleId :

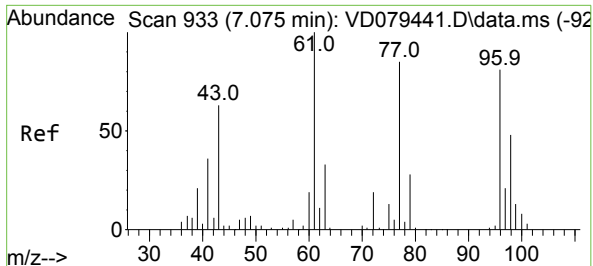
Tgt Ion: 43 Resp: 492
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



#20
Methylene Chloride
Concen: 2.016 ug/l
RT: 4.793 min Scan# 545
Delta R.T. -0.006 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Tgt Ion: 84 Resp: 25002
Ion Ratio Lower Upper
84 100
49 107.4 75.6 113.4
51 33.6 24.2 36.2
86 63.0 49.2 73.8

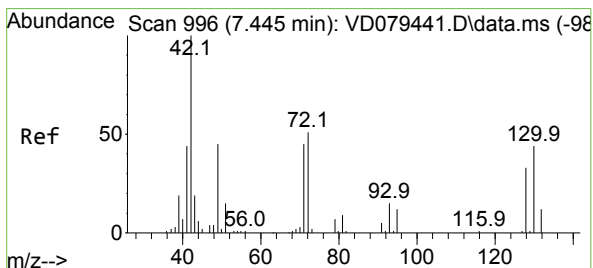
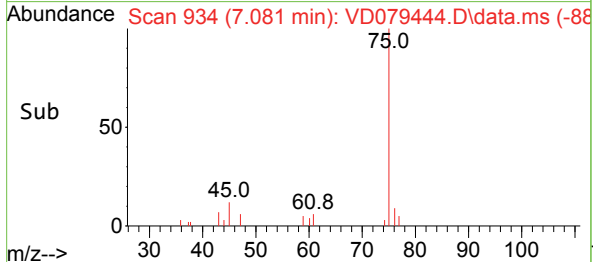
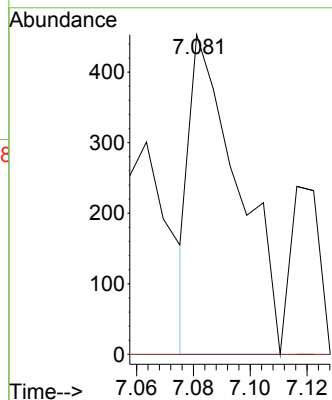
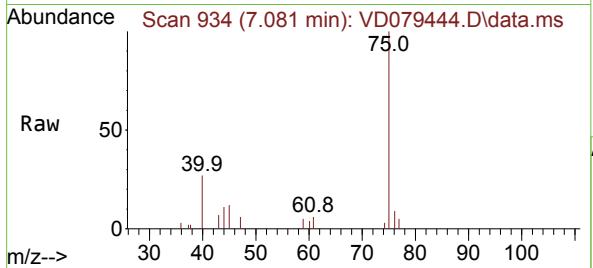




#25
2-Butanone
Concen: 1.911 ug/l
RT: 7.081 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

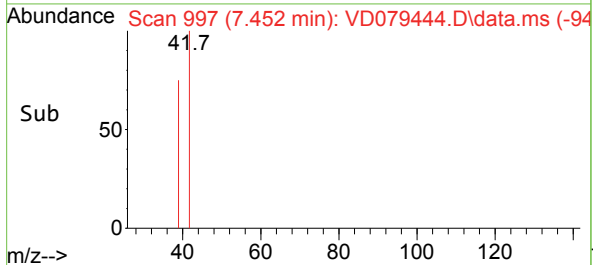
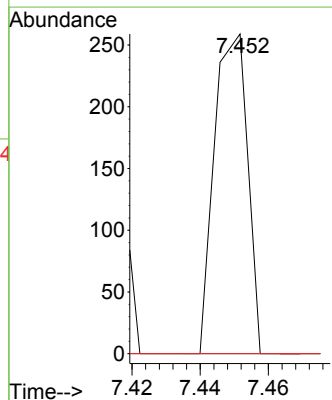
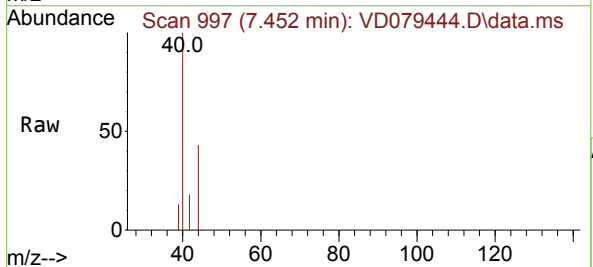
Instrument :
MSVOA_D
ClientSampleId :

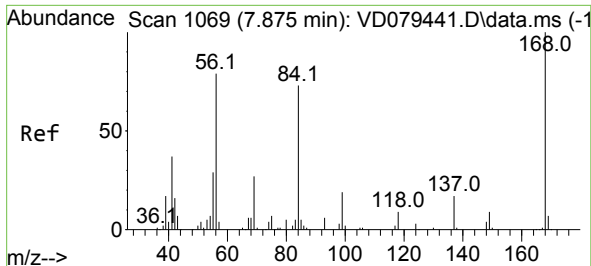
Tgt Ion: 43 Resp: 532
Ion Ratio Lower Upper
43 100
72 0.0 26.4 39.6#



#29
Tetrahydrofuran
Concen: 1.014 ug/l
RT: 7.452 min Scan# 997
Delta R.T. 0.006 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

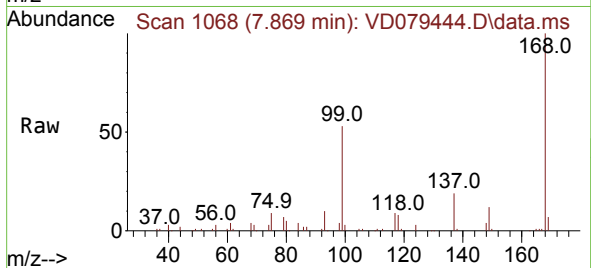
Tgt Ion: 42 Resp: 175
Ion Ratio Lower Upper
42 100
72 0.0 49.4 74.0#
71 0.0 45.0 67.6#



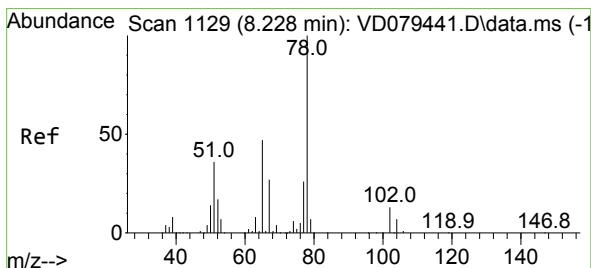
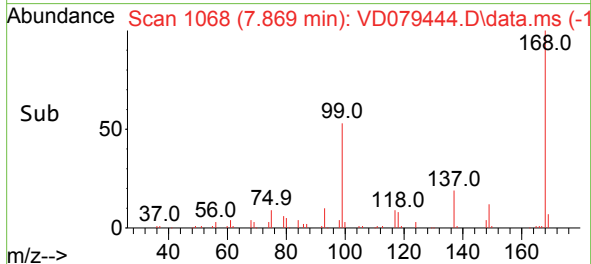
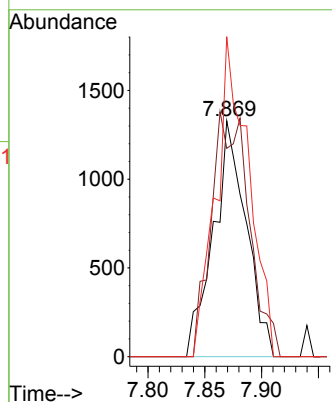


#31
Cyclohexane
Concen: 1.591 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Instrument :
MSVOA_D
ClientSampleId :

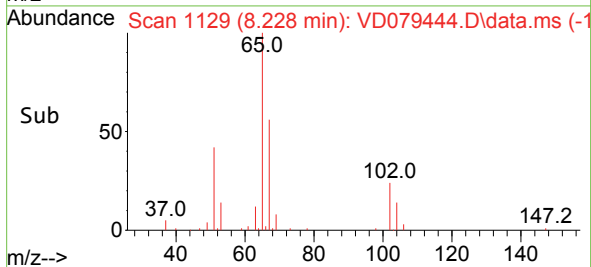
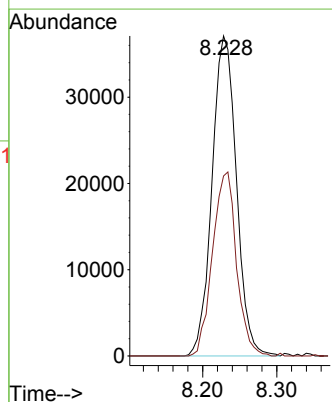
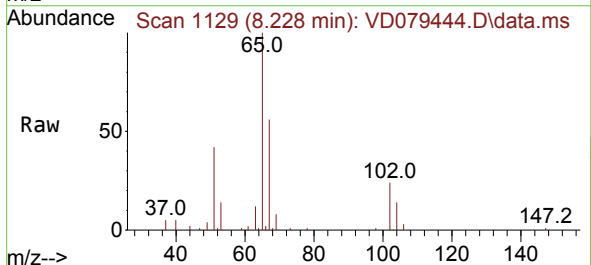


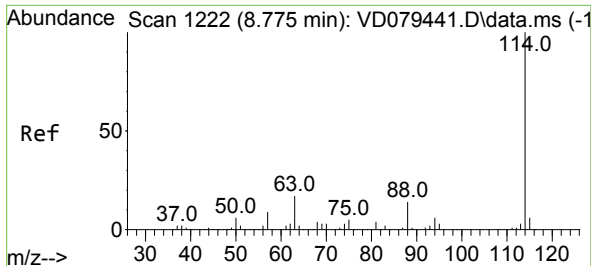
Tgt Ion: 56 Resp: 2669
Ion Ratio Lower Upper
56 100
69 99.8 28.0 42.0#
84 135.7 87.4 131.0#



#33
1,2-Dichloroethane-d4
Concen: 84.005 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Tgt Ion: 65 Resp: 84870
Ion Ratio Lower Upper
65 100
67 56.4 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

Instrument :

MSVOA_D

ClientSampleId :

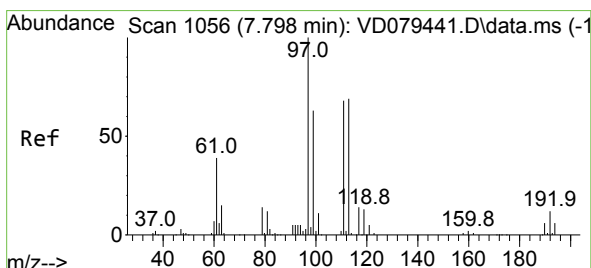
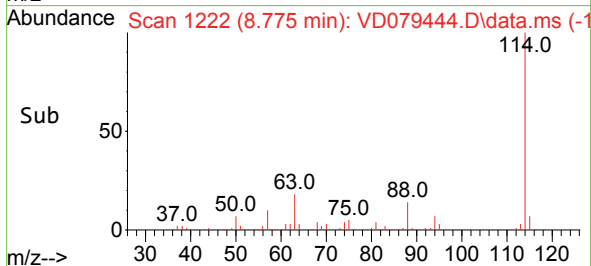
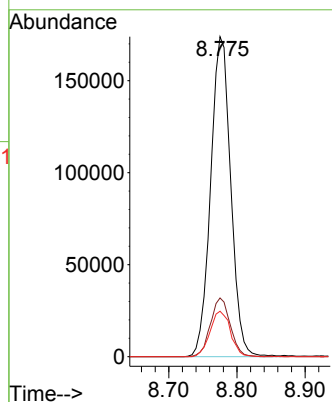
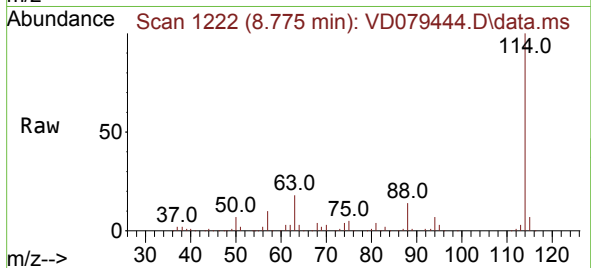
Tgt Ion:114 Resp: 357023

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.0

88 14.2 0.0 27.2



#35

Dibromofluoromethane

Concen: 60.273 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

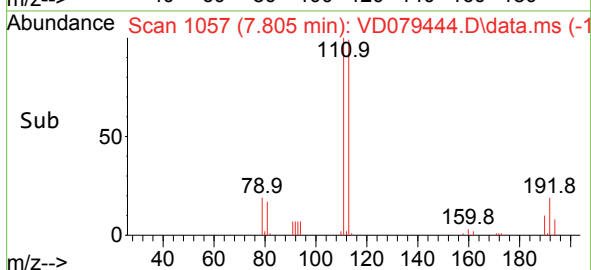
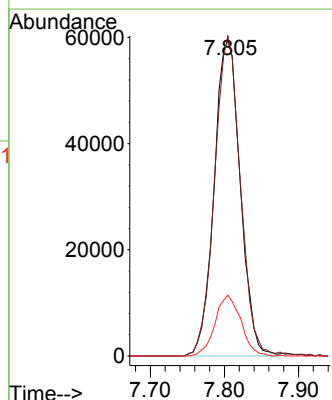
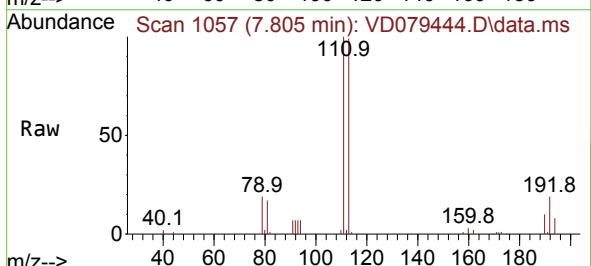
Tgt Ion:113 Resp: 145649

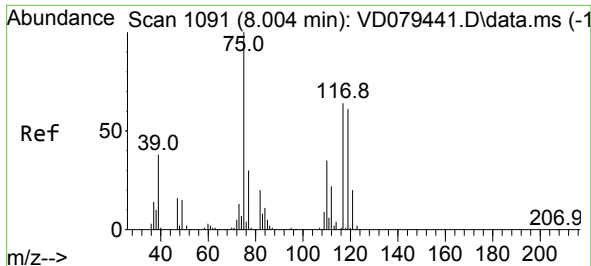
Ion Ratio Lower Upper

113 100

111 100.1 84.0 126.0

192 19.0 15.4 23.0





#36

1,1-Dichloropropene

Concen: 2.508 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.135 min

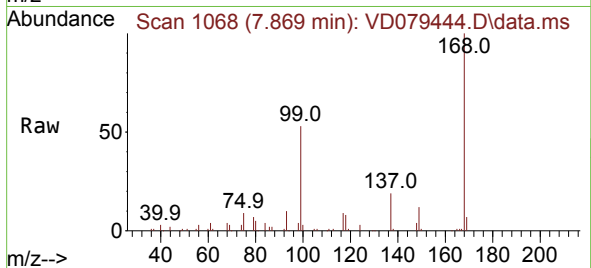
Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

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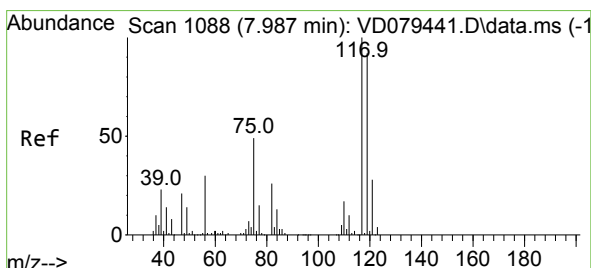
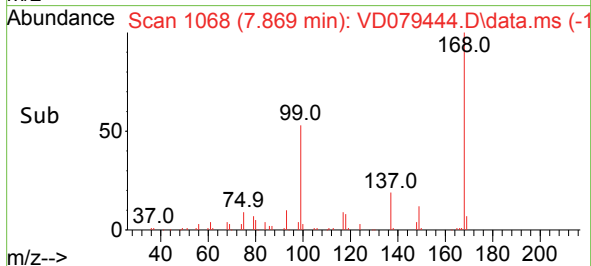
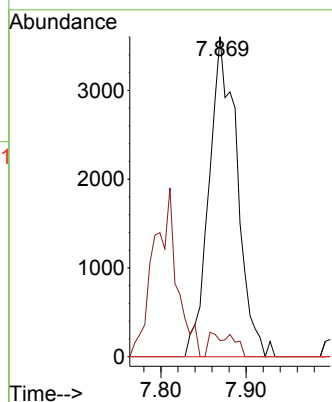
Tgt Ion: 75 Resp: 8272

Ion Ratio Lower Upper

75 100

110 3.8 19.6 58.7#

77 0.0 26.1 39.1#



#38

Carbon Tetrachloride

Concen: 2.884 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.111 min

Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

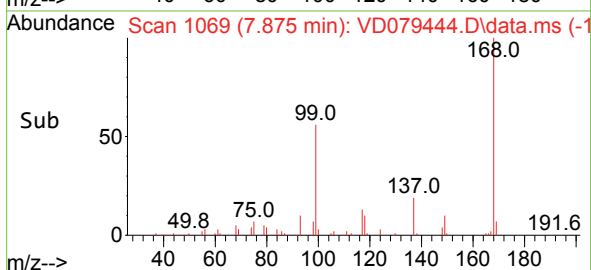
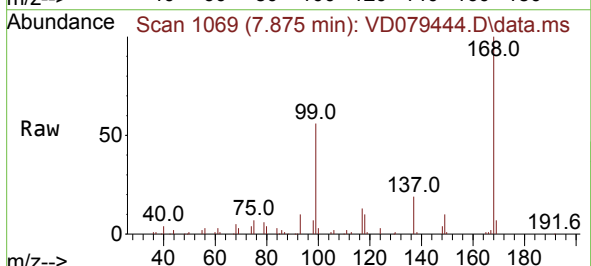
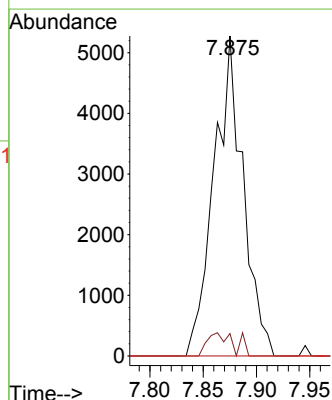
Tgt Ion: 117 Resp: 9998

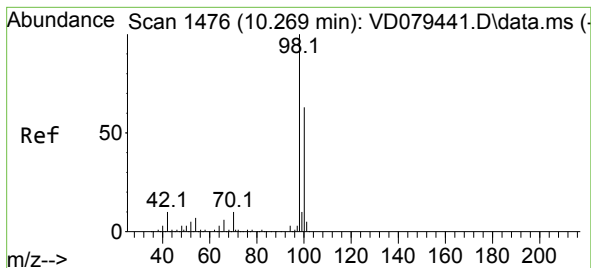
Ion Ratio Lower Upper

117 100

119 7.0 75.4 113.0#

121 0.0 25.0 37.4#

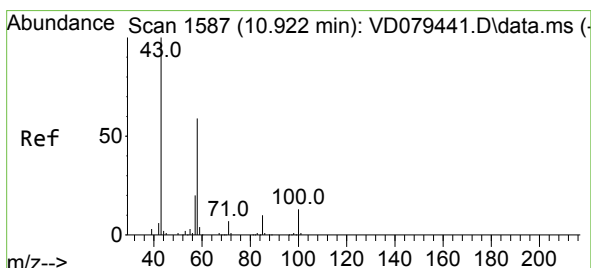
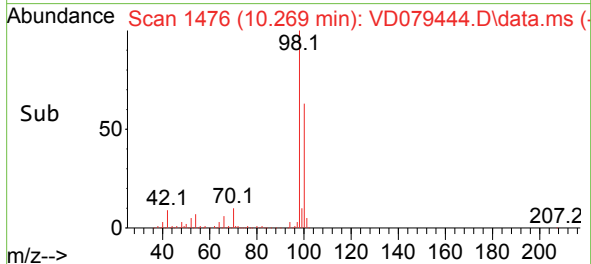
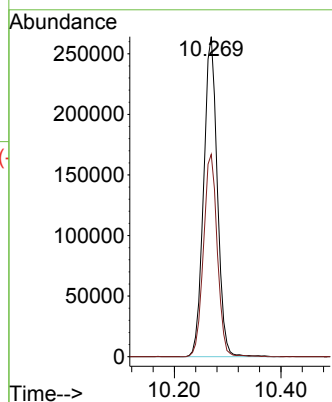
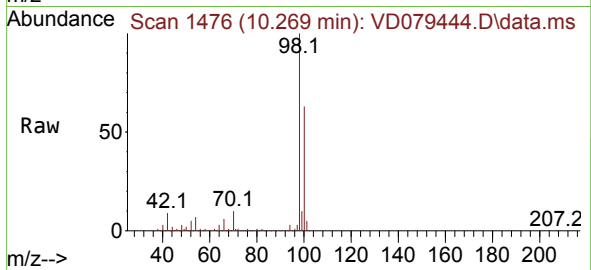




#50
Toluene-d8
Concen: 49.914 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

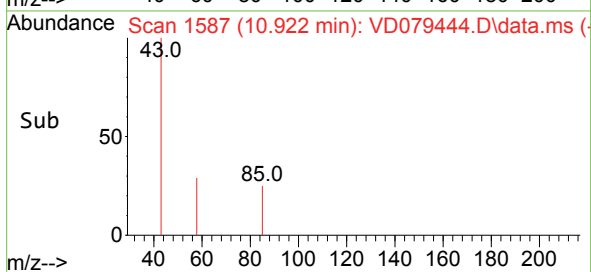
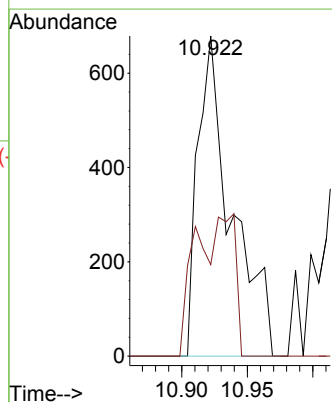
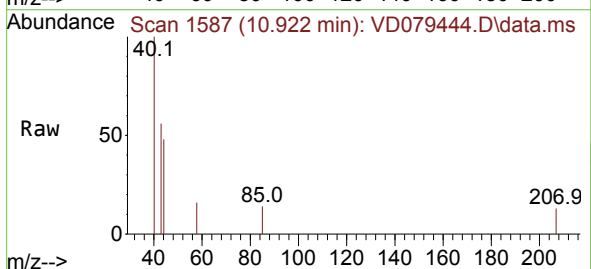
Instrument :
MSVOA_D
ClientSampleId :

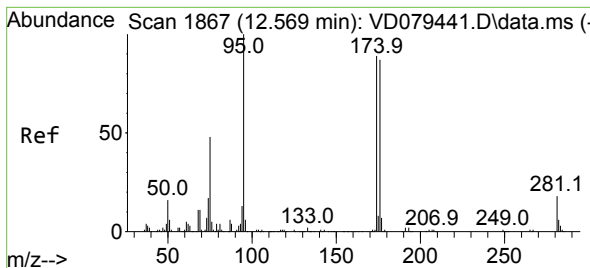
Tgt Ion: 98 Resp: 468402
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4



#59
2-Hexanone
Concen: 1.345 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Tgt Ion: 43 Resp: 1217
Ion Ratio Lower Upper
43 100
58 25.8 31.1 93.5#

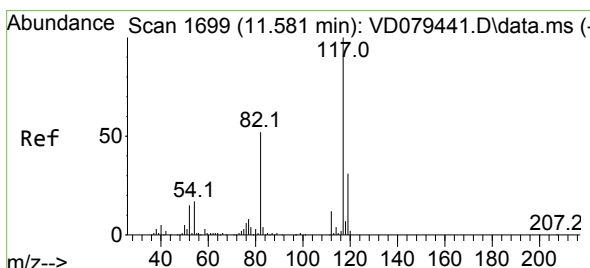
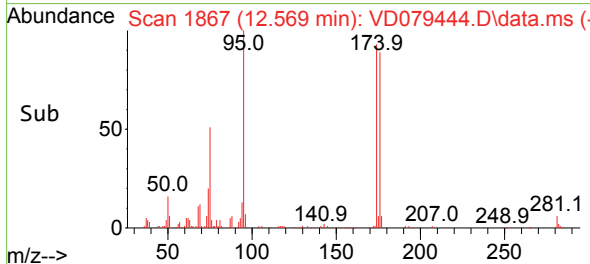
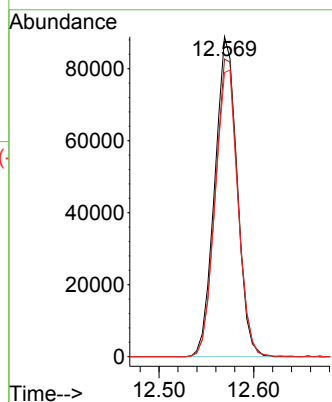
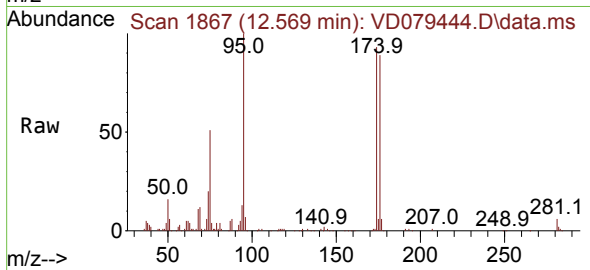




#62
4-Bromofluorobenzene
Concen: 53.412 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

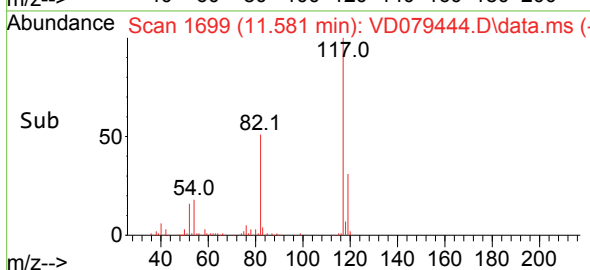
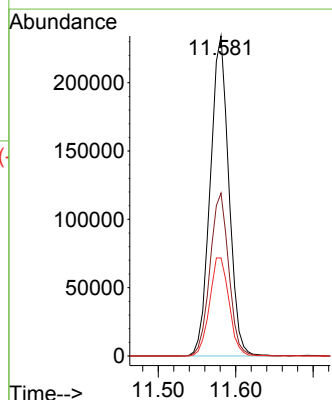
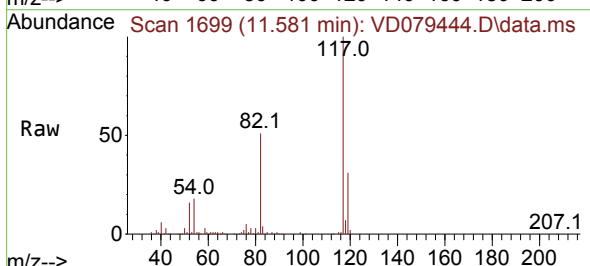
Instrument :
MSVOA_D
ClientSampleId :

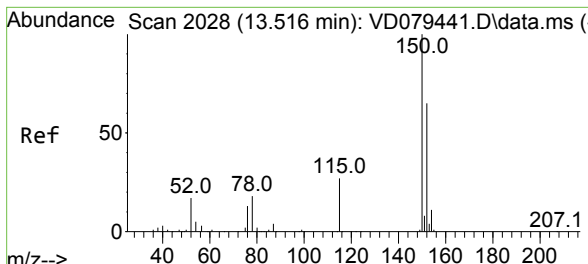
Tgt Ion: 95 Resp: 145045
Ion Ratio Lower Upper
95 100
174 95.4 0.0 195.4
176 92.2 0.0 192.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Tgt Ion: 117 Resp: 390353
Ion Ratio Lower Upper
117 100
82 50.9 39.8 59.6
119 30.7 25.7 38.5

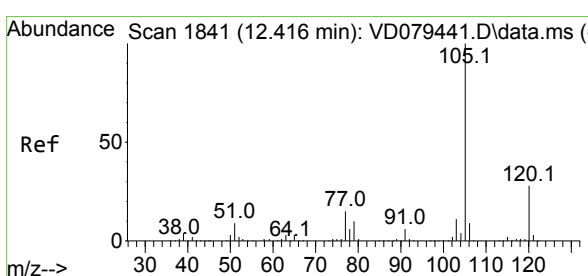
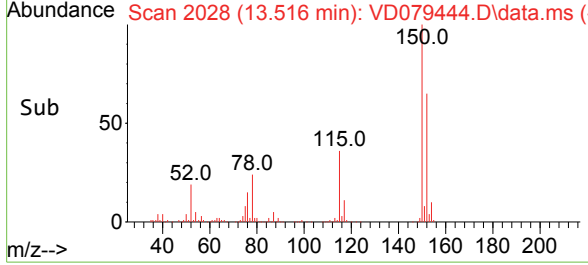
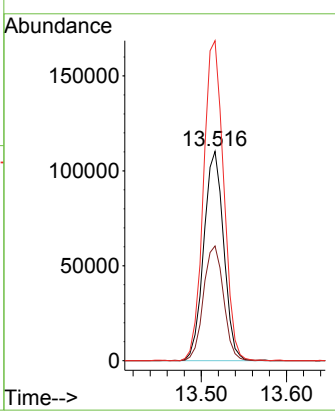
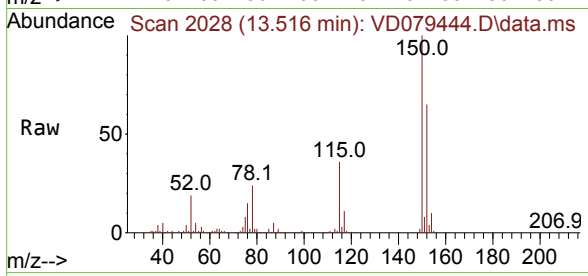




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 2028
 Delta R.T. 0.000 min
 Lab File: VD079444.D
 Acq: 29 Jul 2024 19:02

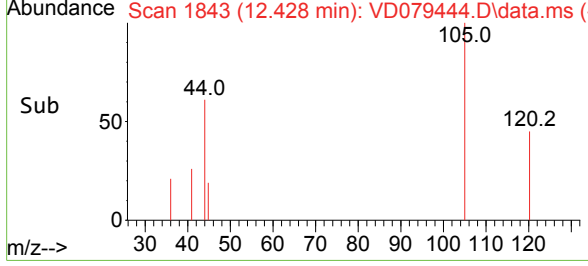
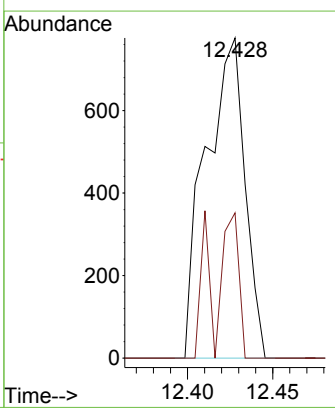
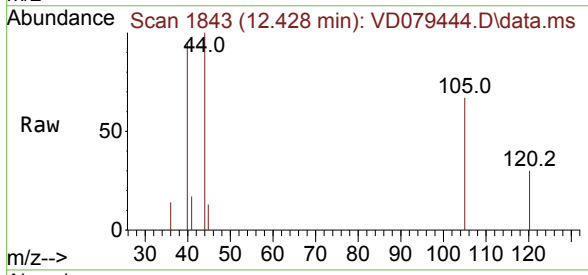
Instrument :
 MSVOA_D
 ClientSampleId :

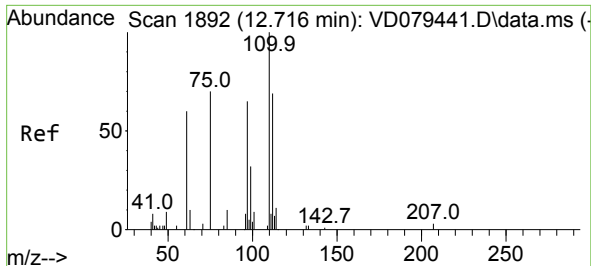
Tgt Ion:	152	Resp:	179078
Ion	Ratio	Lower	Upper
152	100		
115	55.3	26.5	79.5
150	154.9	0.0	341.6



#73
 Isopropylbenzene
 Concen: 3.713 ug/l
 RT: 12.428 min Scan# 1843
 Delta R.T. 0.012 min
 Lab File: VD079444.D
 Acq: 29 Jul 2024 19:02

Tgt Ion:	105	Resp:	1239
Ion	Ratio	Lower	Upper
105	100		
120	18.7	13.6	40.7

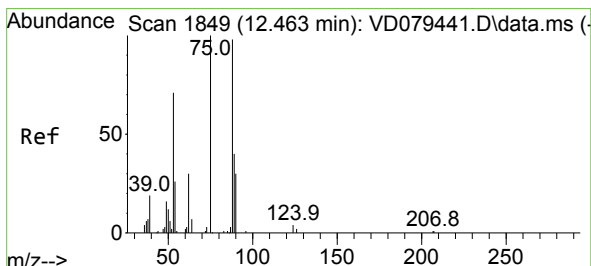
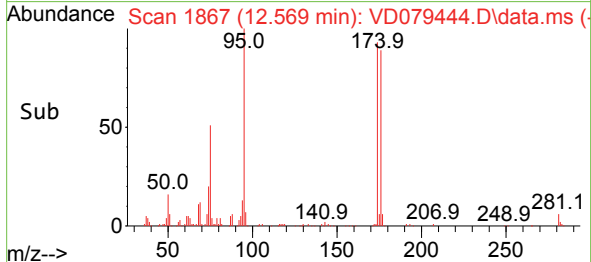
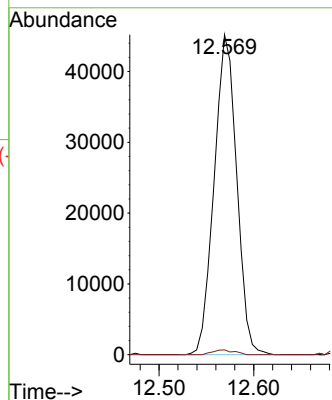
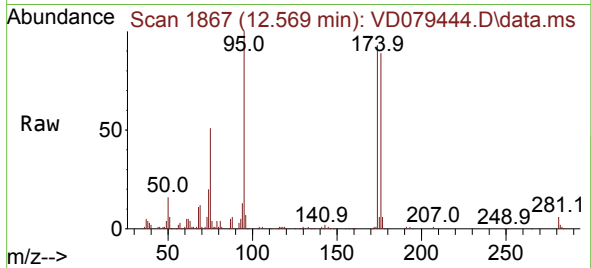




#76
1,2,3-Trichloropropane
Concen: 47.653 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.147 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

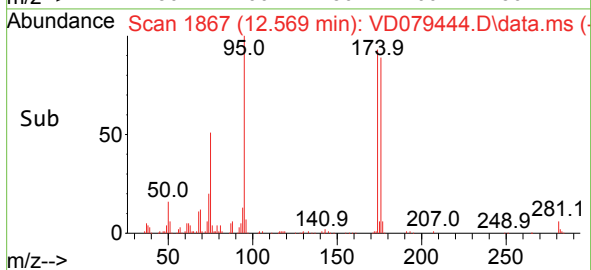
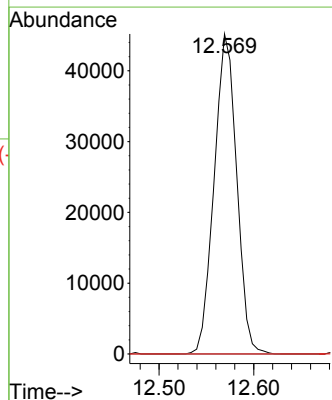
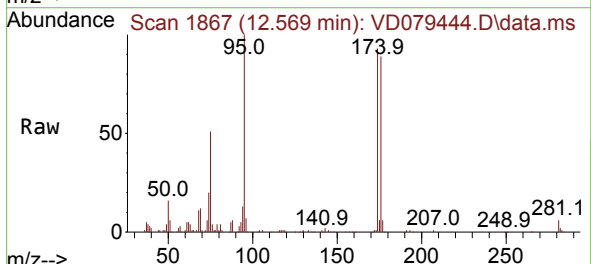
Instrument :
MSVOA_D
ClientSampleId :

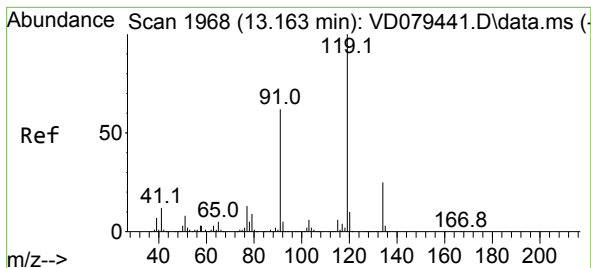
Tgt Ion: 75 Resp: 74867
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.222 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.106 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Tgt Ion: 75 Resp: 74867
Ion Ratio Lower Upper
75 100
53 0.0 61.4 92.2#
89 0.0 35.4 53.0#





#83

tert-Butylbenzene

Concen: 3.828 ug/l

RT: 13.157 min Scan# 1967

Delta R.T. -0.006 min

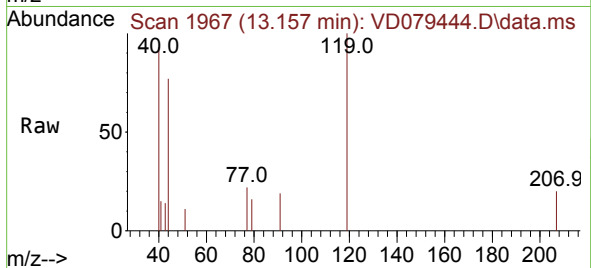
Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

Instrument :

MSVOA_D

ClientSampleId :



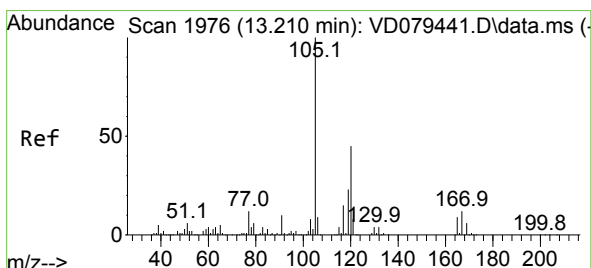
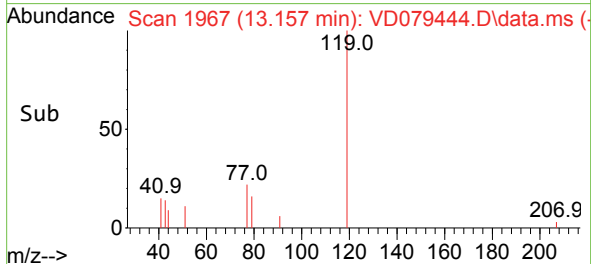
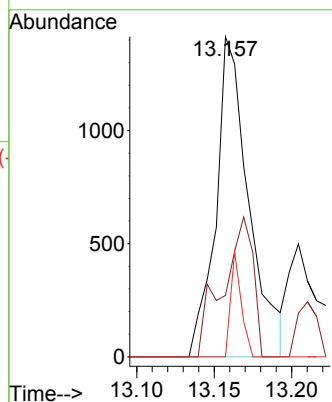
Tgt Ion:119 Resp: 2086

Ion Ratio Lower Upper

119 100

91 40.3 28.2 84.7

134 10.5 13.4 40.1#



#84

1,2,4-Trimethylbenzene

Concen: 3.591 ug/l

RT: 13.210 min Scan# 1976

Delta R.T. 0.000 min

Lab File: VD079444.D

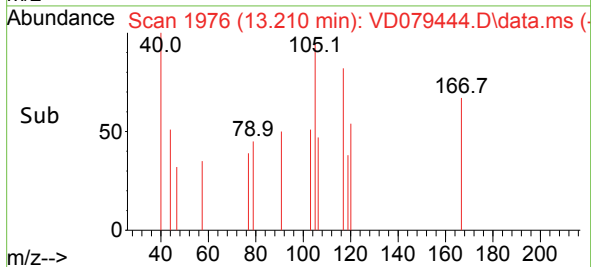
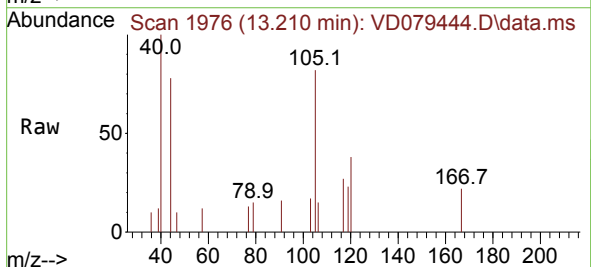
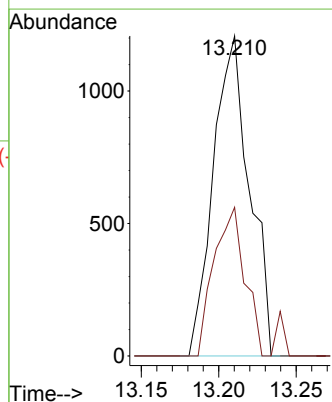
Acq: 29 Jul 2024 19:02

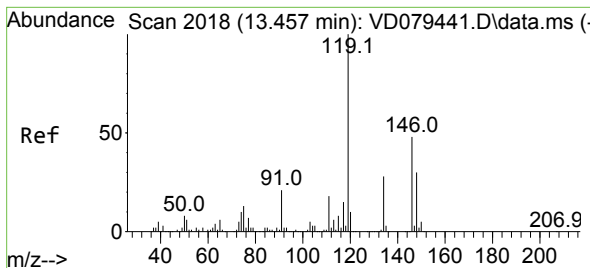
Tgt Ion:105 Resp: 1957

Ion Ratio Lower Upper

105 100

120 39.9 23.6 71.0

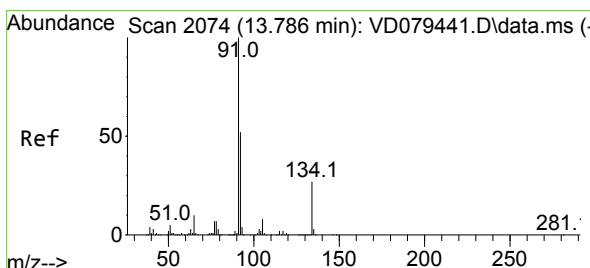
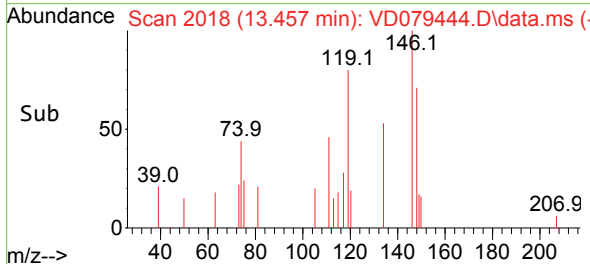
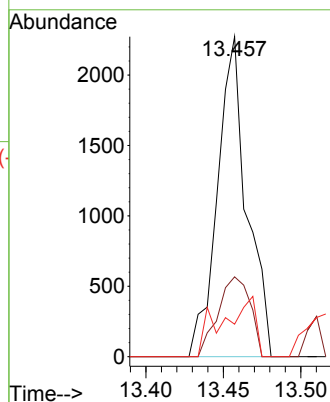
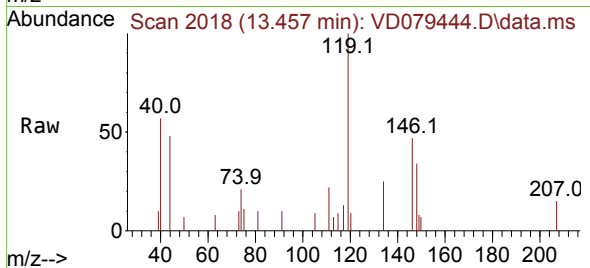




#86
p-Isopropyltoluene
Concen: 4.106 ug/l
RT: 13.457 min Scan# 2018
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

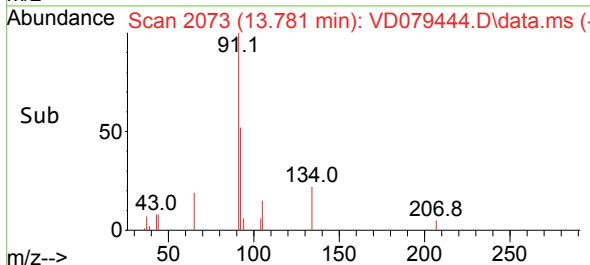
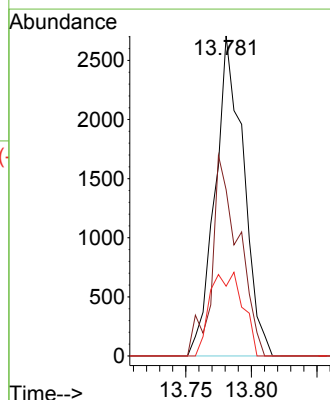
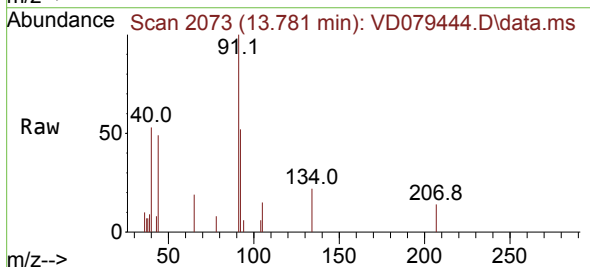
Instrument :
MSVOA_D
ClientSampleId :

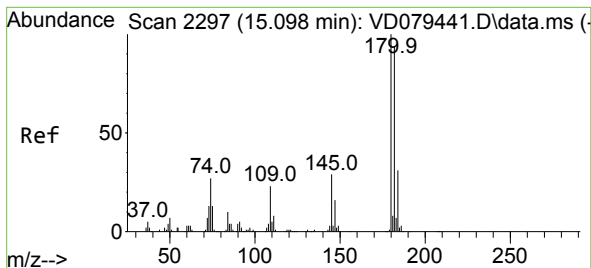
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.7	41.1
91	21.3	10.7	32.1



#89
n-Butylbenzene
Concen: 4.106 ug/l
RT: 13.781 min Scan# 2073
Delta R.T. -0.005 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

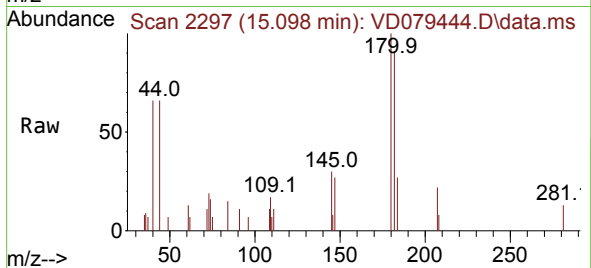
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.0	25.7	77.0
134	30.3	13.6	40.8



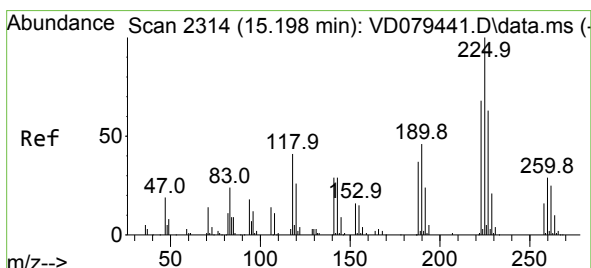
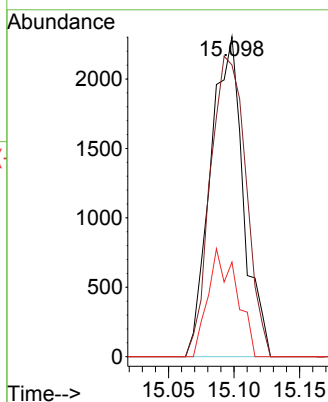
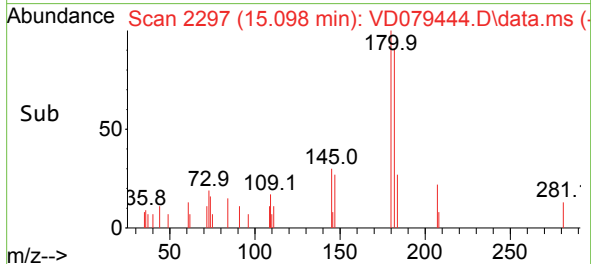


#93
1,2,4-Trichlorobenzene
Concen: 1.197 ug/l
RT: 15.098 min Scan# 21
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Instrument :
MSVOA_D
ClientSampleId :

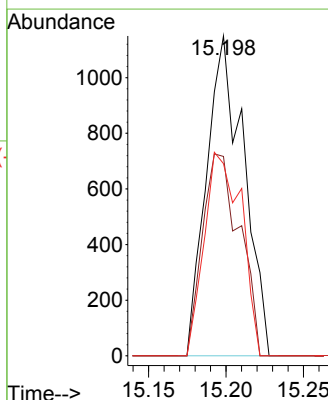
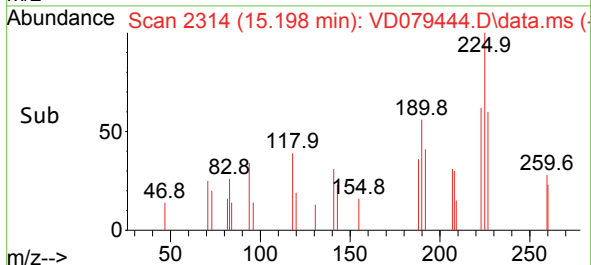
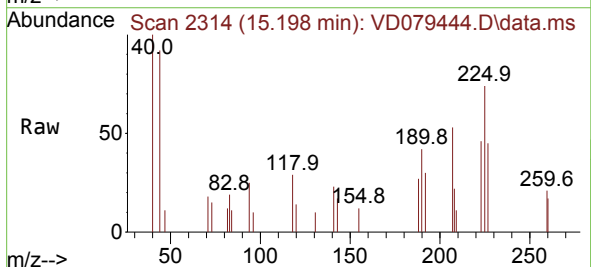


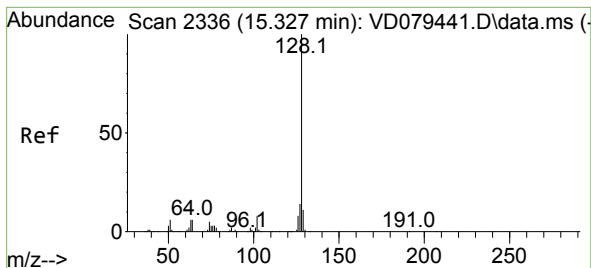
Tgt Ion:	180	Resp:	4010
Ion	Ratio	Lower	Upper
180	100		
182	101.8	46.9	140.7
145	29.5	14.0	41.9



#94
Hexachlorobutadiene
Concen: 1.059 ug/l
RT: 15.198 min Scan# 2314
Delta R.T. 0.000 min
Lab File: VD079444.D
Acq: 29 Jul 2024 19:02

Tgt Ion:	225	Resp:	1914
Ion	Ratio	Lower	Upper
225	100		
223	63.2	33.3	99.9
227	63.5	33.6	100.6





#95

Naphthalene

Concen: 2.043 ug/l

RT: 15.328 min Scan# 21

Delta R.T. 0.000 min

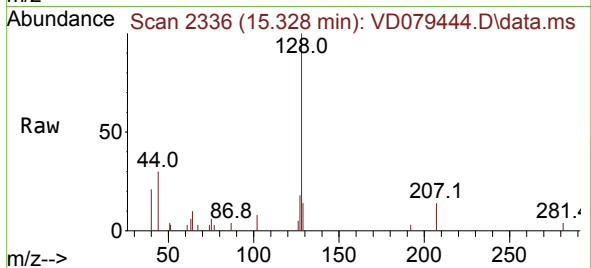
Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

Instrument :

MSVOA_D

ClientSampleId :



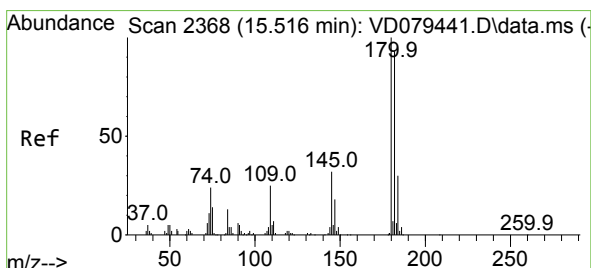
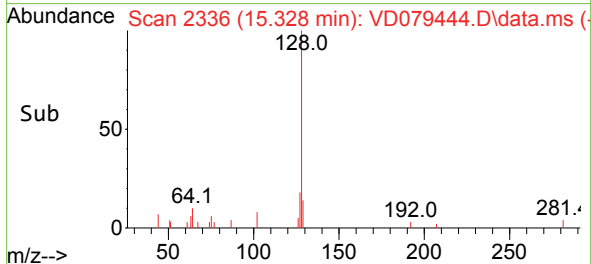
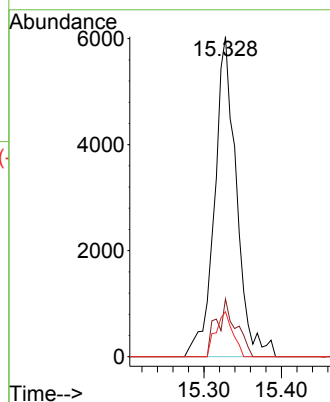
Tgt Ion:128 Resp: 11843

Ion Ratio Lower Upper

128 100

127 18.1 10.2 15.4#

129 14.1 8.5 12.7#



#96

1,2,3-Trichlorobenzene

Concen: 1.714 ug/l

RT: 15.516 min Scan# 2368

Delta R.T. 0.000 min

Lab File: VD079444.D

Acq: 29 Jul 2024 19:02

Tgt Ion:180 Resp: 5049

Ion Ratio Lower Upper

180 100

182 92.3 47.8 143.3

145 28.5 16.1 48.2

