

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060424\
 Data File : VD079137.D
 Acq On : 04 Jun 2024 10:37
 Operator : RP/MD
 Sample : VD0604SBL01
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 05 03:20:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM052924SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Jun 05 03:20:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	183461	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	185358	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	73971	25.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	2.275	65	140400	24.869	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.480%
7) Chloroethane-d5	2.799	69	129774	23.773	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.080%
11) 1,1-Dichloroethene-d2	3.911	65	22163	22.114	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.440%
21) 2-Butanone-d5	6.987	46	21514	49.822	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.640%
24) Chloroform-d	7.569	84	117691	22.943	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.760%
26) 1,2-Dichloroethane-d4	8.228	65	56868	24.032	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.120%
32) Benzene-d6	8.199	84	240201	23.376	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.520%
36) 1,2-Dichloropropane-d6	9.210	67	67583	22.833	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.320%
41) Toluene-d8	10.269	98	210504	21.879	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	87.520%
43) trans-1,3-Dichloroprop...	10.528	79	27523	22.122	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	88.480%
47) 2-Hexanone-d5	10.881	63	17894	46.763	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.520%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	59492	22.692	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.760%
66) 1,2-Dichlorobenzene-d4	13.816	152	66485	26.043	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.160%

Target Compounds				Qvalue		
3) Chloromethane	2.146	50	1303	0.337 ug/L	#	75
5) Vinyl chloride	2.281	62	2112	0.331 ug/L	#	13
6) Bromomethane	2.699	94	1777	0.360 ug/L		72
17) trans-1,2-Dichloroethene	5.316	96	405	0.147 ug/L	#	7
25) Chloroform	7.593	83	2828	0.563 ug/L		83
27) 1,2-Dichloroethane	8.328	62	640	0.220 ug/L	#	72
29) Cyclohexane	7.863	56	410	0.123 ug/L	#	69
31) Carbon tetrachloride	7.999	117	709	0.174 ug/L	#	33
33) Benzene	8.246	78	2762	0.250 ug/L		100
38) Bromodichloromethane	9.587	83	525	0.140 ug/L	#	67
42) Toluene	10.328	91	2644	0.216 ug/L	#	74
45) 1,1,2-Trichloroethane	10.734	97	496	0.209 ug/L		83
46) Tetrachloroethene	10.810	164	423	0.169 ug/L	#	67
51) Chlorobenzene	11.604	112	1916	0.235 ug/L		97
52) Ethylbenzene	11.687	91	2338	0.183 ug/L		91
54) o-Xylene	12.122	106	639	0.132 ug/L		83
55) Styrene	12.134	104	1095	0.127 ug/L	#	72
60) Isopropylbenzene	12.422	105	1800	0.184 ug/L	#	94
62) 1,3,5-Trimethylbenzene	12.892	105	1307	0.195 ug/L		92

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MSVOA_D
ClientSampleId :

Quant Time: Jun 05 03:20:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM052924SMA.M
Quant Title : SFAM01.0
QLast Update : Wed Jun 05 03:20:33 2024
Response via : Initial Calibration

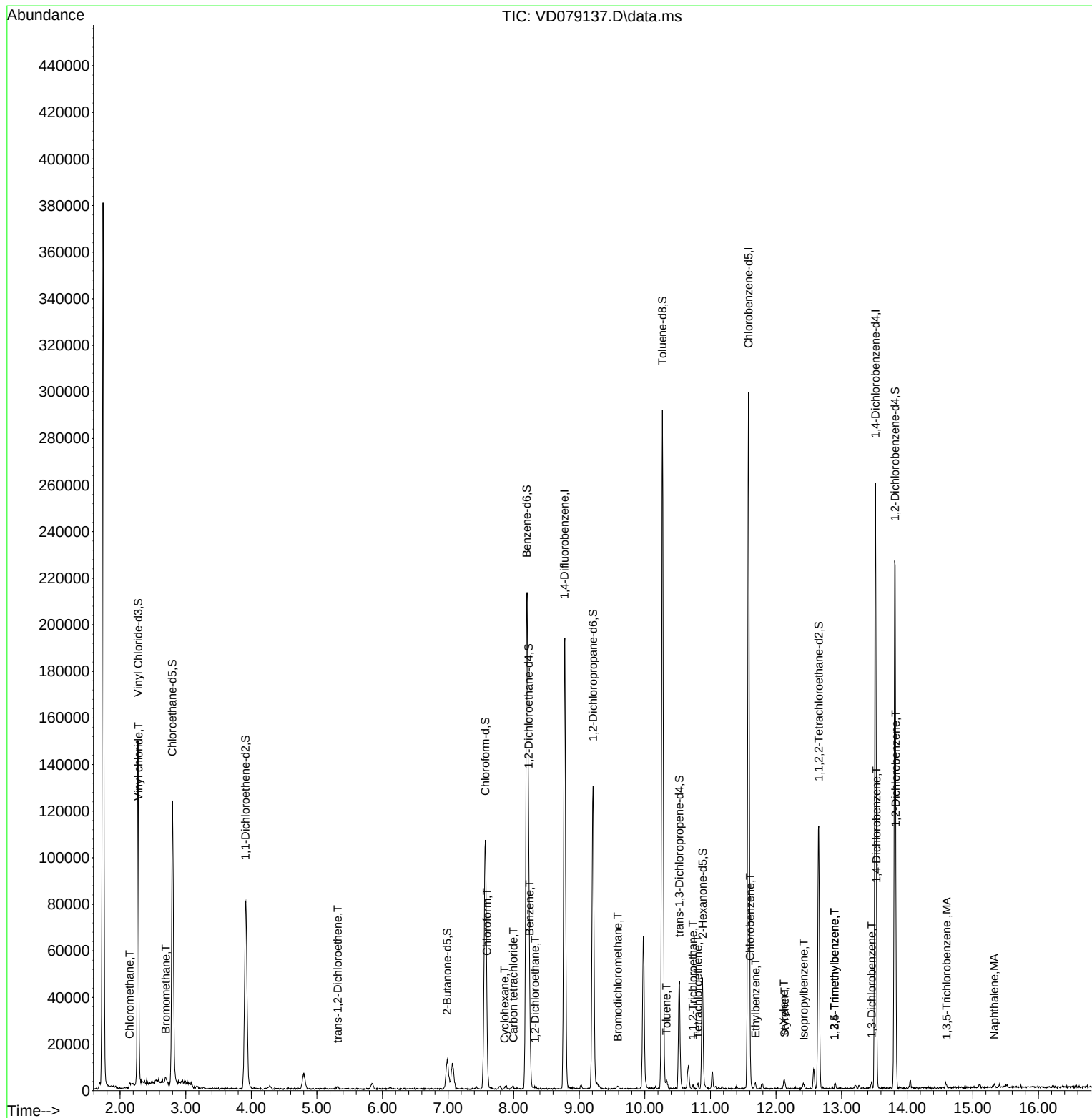
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	12.892	105	1307	0.183	ug/L	87
64) 1,3-Dichlorobenzene	13.457	146	1295	0.276	ug/L	92
65) 1,4-Dichlorobenzene	13.534	146	1585	0.318	ug/L #	63
67) 1,2-Dichlorobenzene	13.828	146	1396	0.321	ug/L #	70
69) 1,3,5-Trichlorobenzene	14.598	180	950	0.321	ug/L #	25
71) Naphthalene	15.328	128	1745	0.379	ug/L #	93

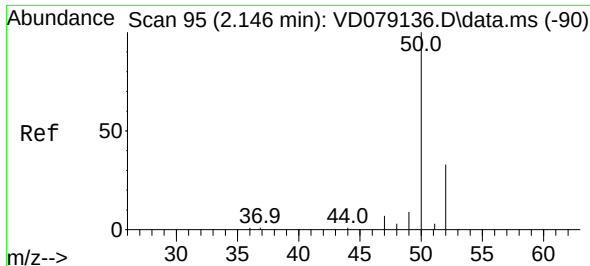
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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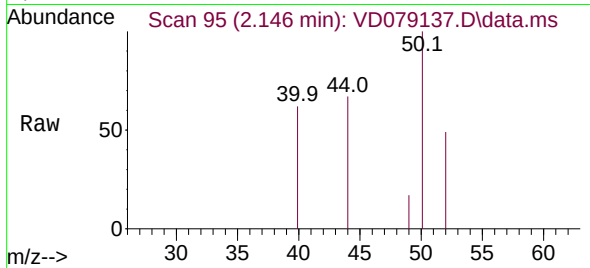
Quant Time: Jun 05 03:20:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM052924SMA.M
Quant Title : SFAM01.0
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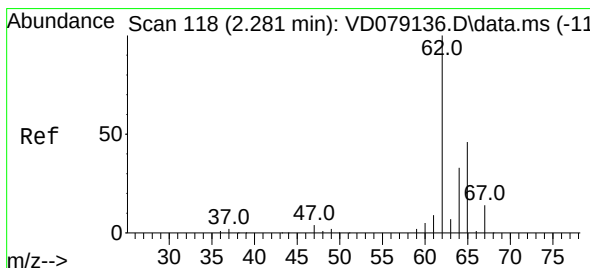
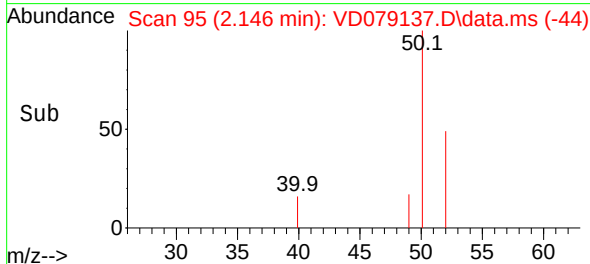
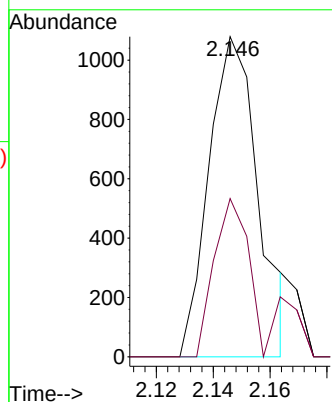


#3
Chloromethane
Concen: 0.337 ug/L
RT: 2.146 min Scan# 95
Delta R.T. 0.000 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

Instrument :
MSVOA_D
ClientSampleId :

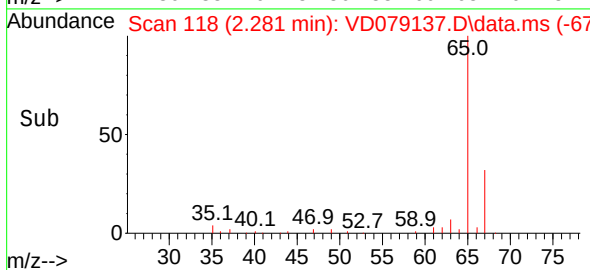
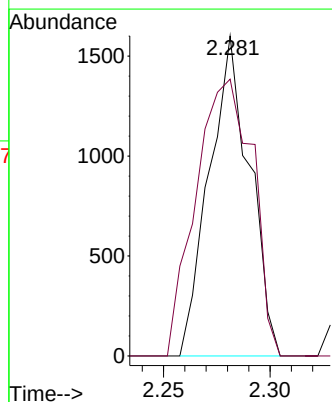
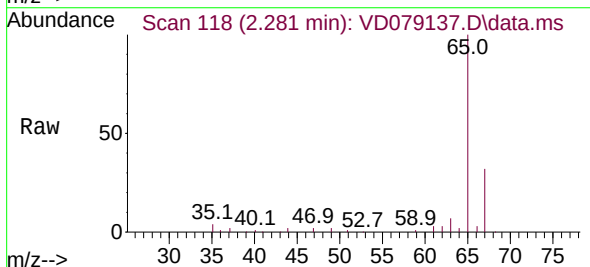


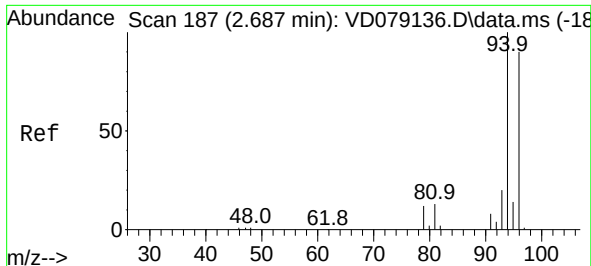
Tgt Ion: 50 Resp: 1303
Ion Ratio Lower Upper
50 100
52 49.4 24.4 45.2#



#5
Vinyl chloride
Concen: 0.331 ug/L
RT: 2.281 min Scan# 118
Delta R.T. 0.000 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

Tgt Ion: 62 Resp: 2112
Ion Ratio Lower Upper
62 100
64 86.5 24.8 46.1#

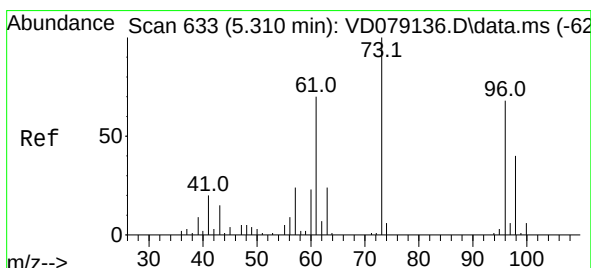
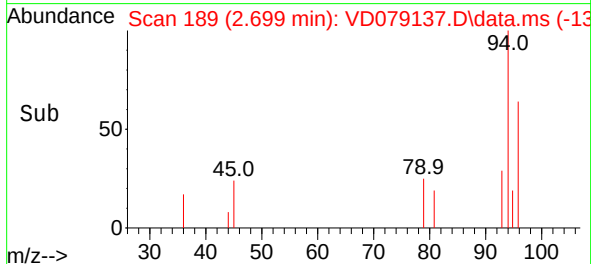
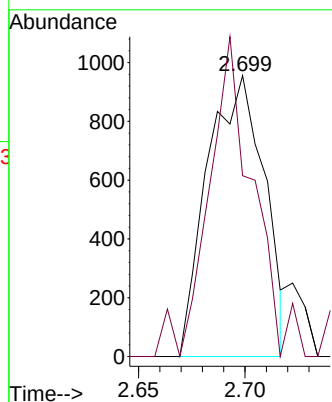
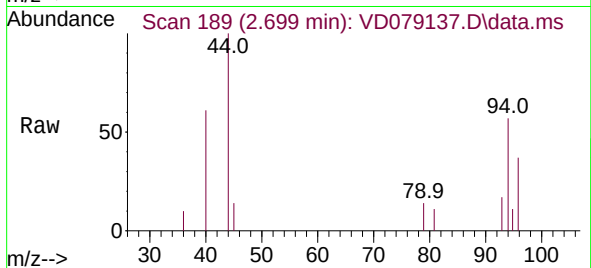




#6
Bromomethane
Concen: 0.360 ug/L
RT: 2.699 min Scan# 11
Delta R.T. 0.012 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

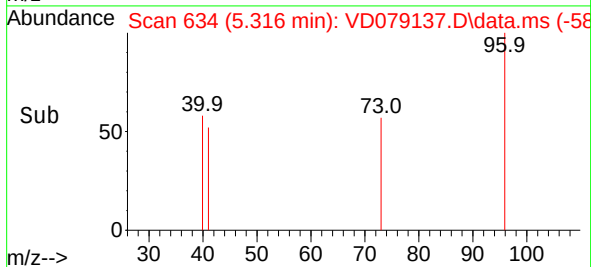
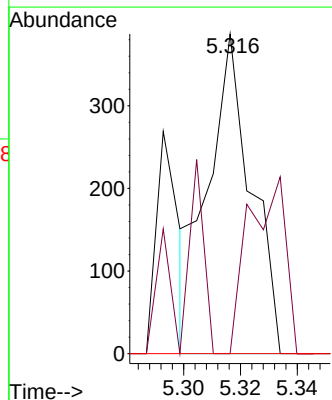
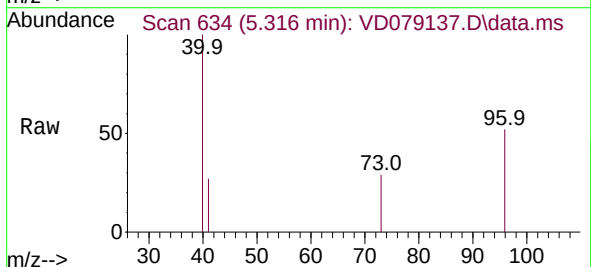
Instrument :
MSVOA_D
ClientSampleId :

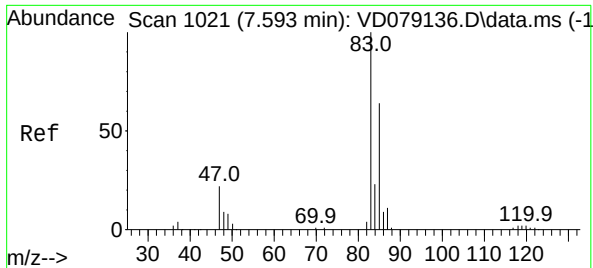
Tgt Ion: 94 Resp: 1777
Ion Ratio Lower Upper
94 100
96 64.3 63.6 118.2



#17
trans-1,2-Dichloroethene
Concen: 0.147 ug/L
RT: 5.316 min Scan# 634
Delta R.T. 0.006 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

Tgt Ion: 96 Resp: 405
Ion Ratio Lower Upper
96 100
61 0.0 71.9 133.5#
98 0.0 42.6 79.2#

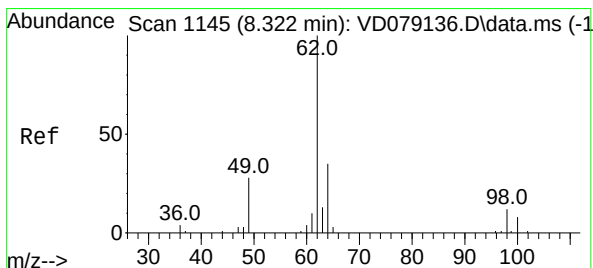
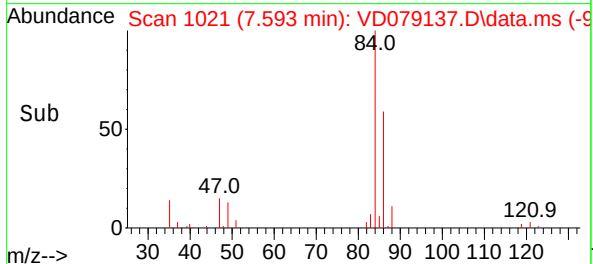
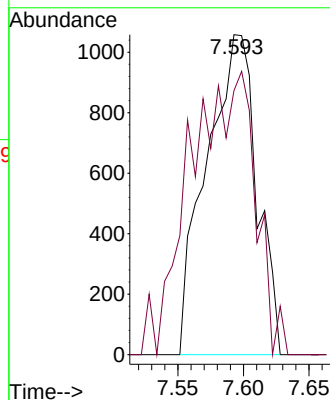
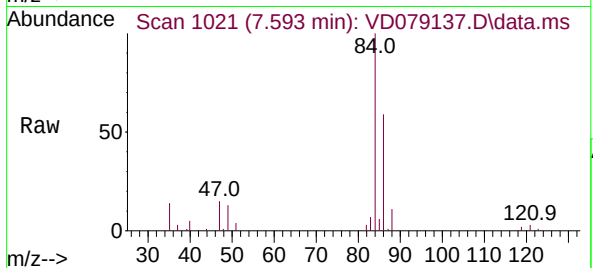




#25
Chloroform
Concen: 0.563 ug/L
RT: 7.593 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

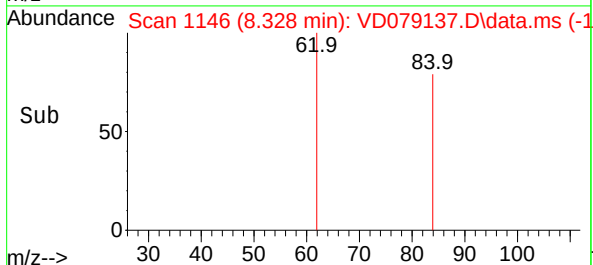
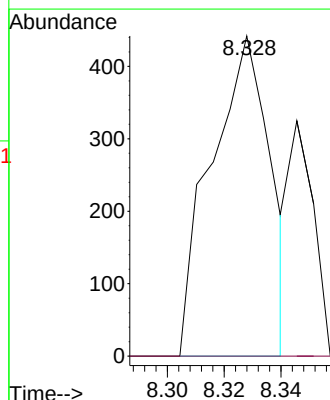
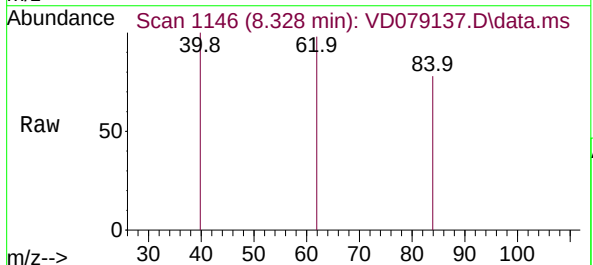
Instrument :
MSVOA_D
ClientSampleId :

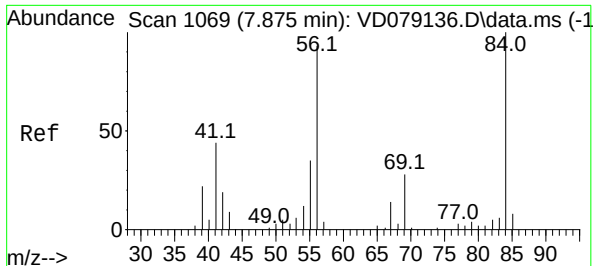
Tgt Ion: 83 Resp: 2828
Ion Ratio Lower Upper
83 100
85 82.5 47.9 89.1



#27
1,2-Dichloroethane
Concen: 0.220 ug/L
RT: 8.328 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

Tgt Ion: 62 Resp: 640
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#





#29

Cyclohexane

Concen: 0.123 ug/L

RT: 7.863 min Scan# 1067

Delta R.T. -0.012 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

ClientSampleId :

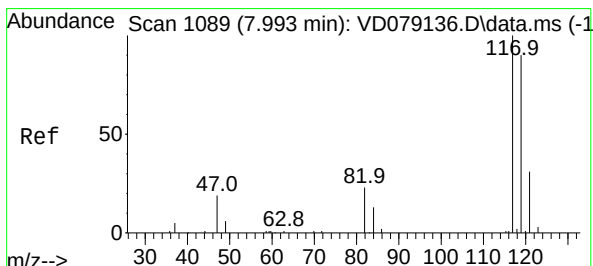
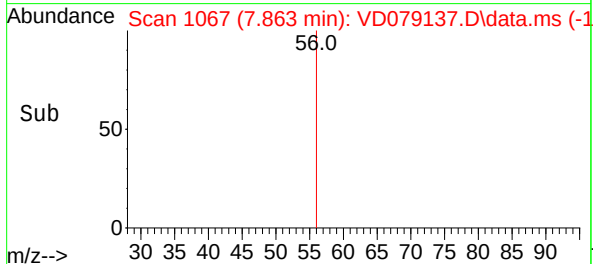
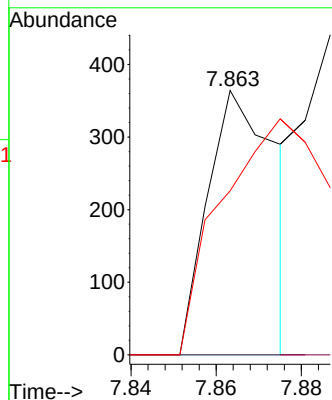
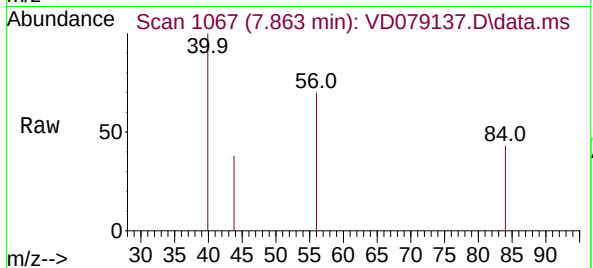
Tgt Ion: 56 Resp: 410

Ion Ratio Lower Upper

56 100

69 0.0 26.6 40.0#

84 132.7 87.5 131.3#



#31

Carbon tetrachloride

Concen: 0.174 ug/L

RT: 7.999 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VD079137.D

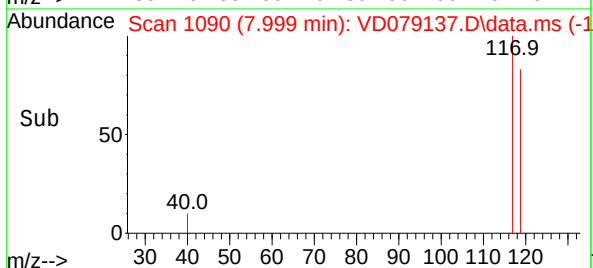
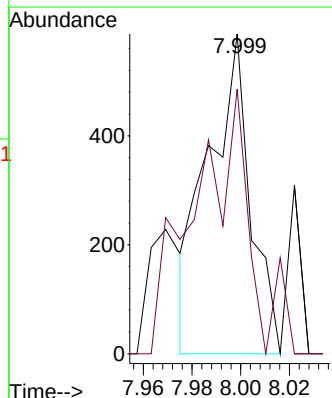
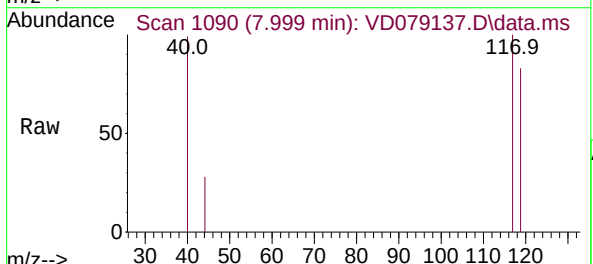
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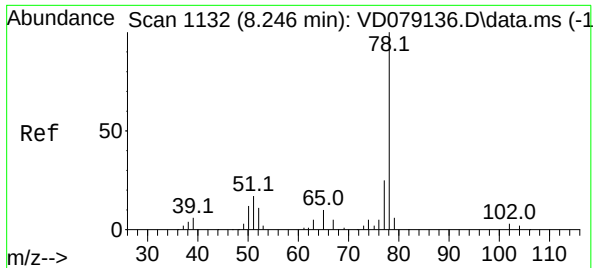
Tgt Ion: 117 Resp: 709

Ion Ratio Lower Upper

117 100

119 33.0 79.6 119.4#

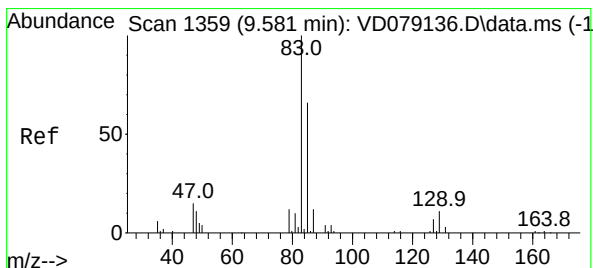
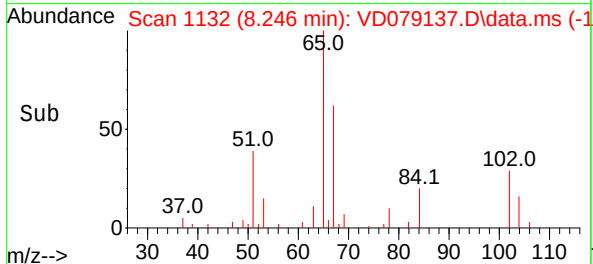
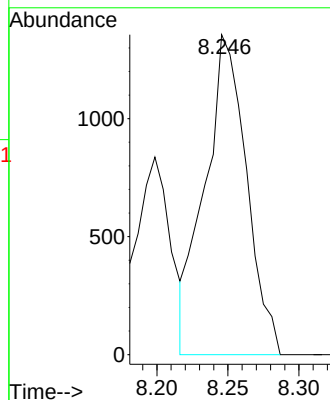
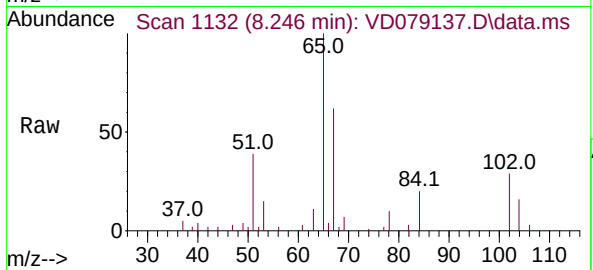




#33
Benzene
Concen: 0.250 ug/L
RT: 8.246 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

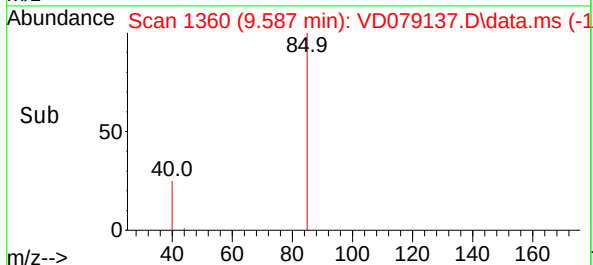
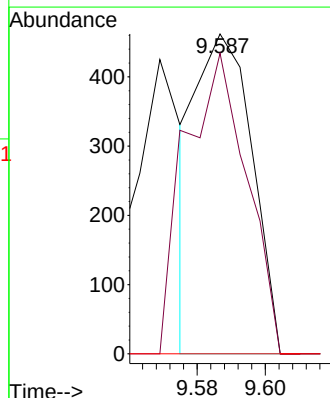
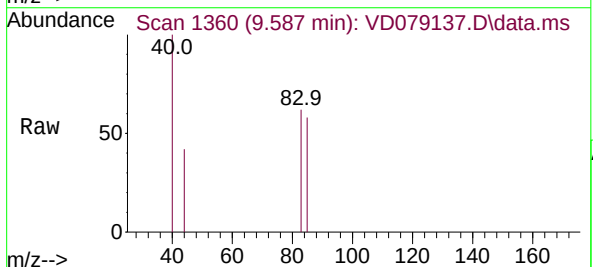
Instrument :
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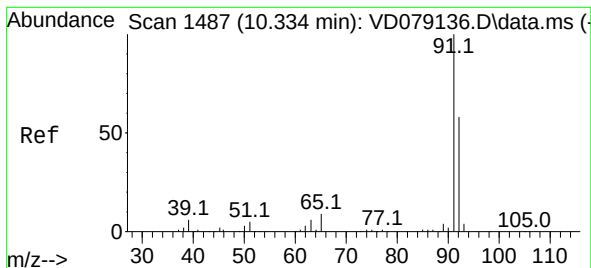
Tgt Ion: 78 Resp: 2762



#38
Bromodichloromethane
Concen: 0.140 ug/L
RT: 9.587 min Scan# 1360
Delta R.T. 0.006 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

Tgt Ion: 83 Resp: 525
Ion Ratio Lower Upper
83 100
85 93.9 46.5 86.5#
127 0.0 7.0 10.6#





#42

Toluene

Concen: 0.216 ug/L

RT: 10.328 min Scan# 1486

Delta R.T. -0.006 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

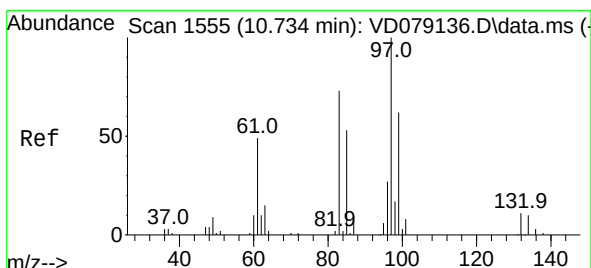
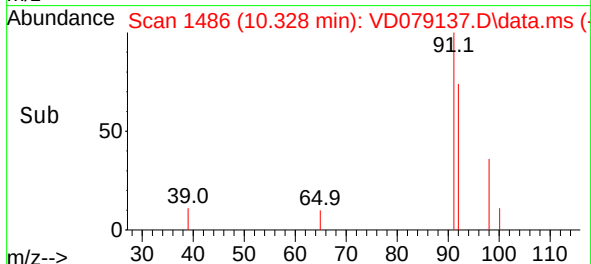
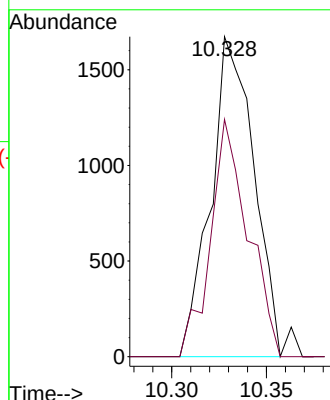
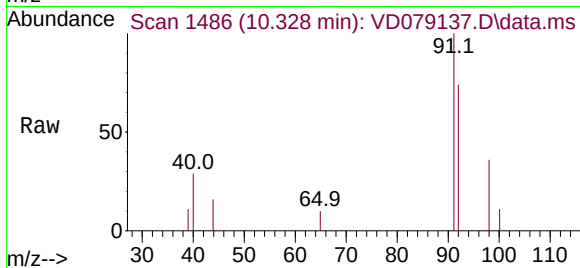
ClientSampleId :

Tgt Ion: 91 Resp: 2644

Ion Ratio Lower Upper

91 100

92 74.2 38.9 72.3#



#45

1,1,2-Trichloroethane

Concen: 0.209 ug/L

RT: 10.734 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Tgt Ion: 97 Resp: 496

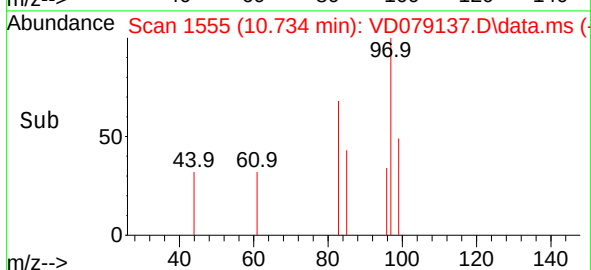
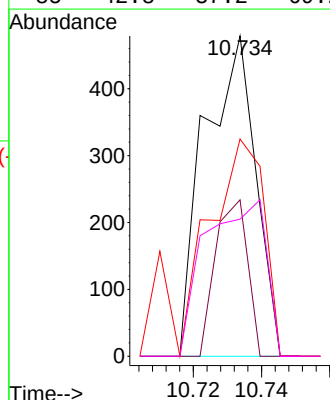
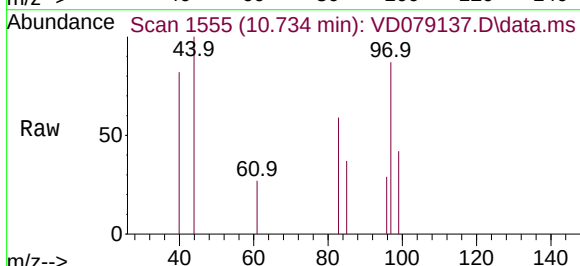
Ion Ratio Lower Upper

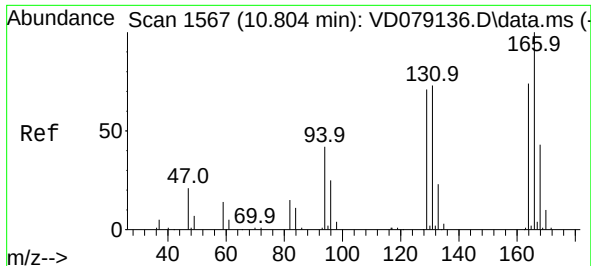
97 100

99 48.9 43.0 79.8

83 67.8 58.9 109.5

85 42.8 37.2 69.2





#46

Tetrachloroethene

Concen: 0.169 ug/L

RT: 10.810 min Scan# 1567

Delta R.T. 0.006 min

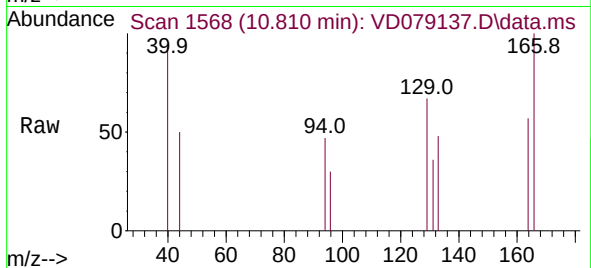
Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:164 Resp: 423

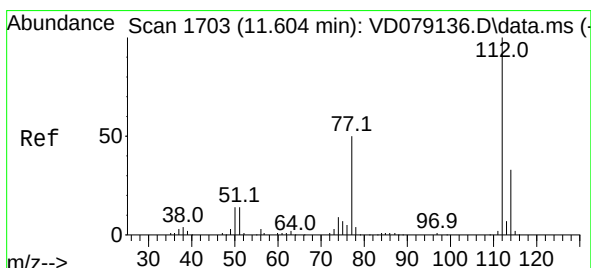
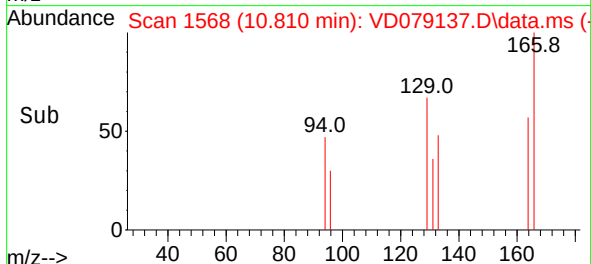
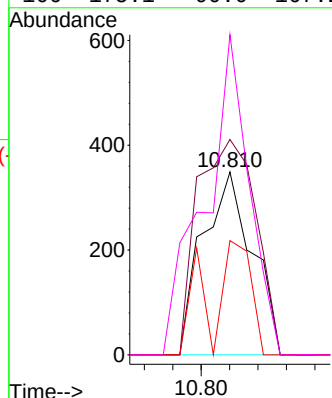
Ion Ratio Lower Upper

164 100

129 117.8 64.3 119.5

131 62.5 61.2 113.8

166 175.1 90.0 167.2#



#51

Chlorobenzene

Concen: 0.235 ug/L

RT: 11.604 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

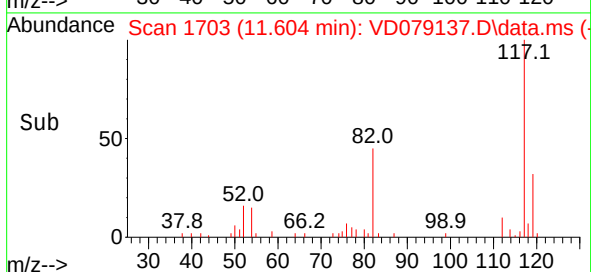
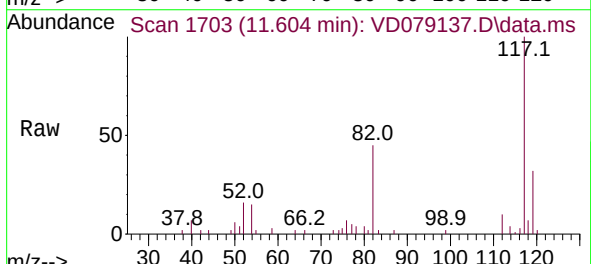
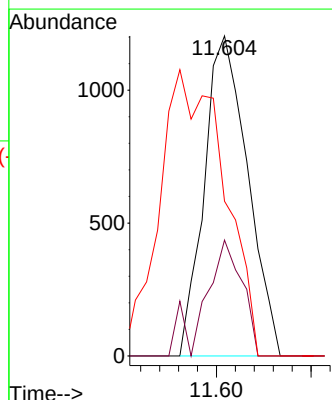
Tgt Ion:112 Resp: 1916

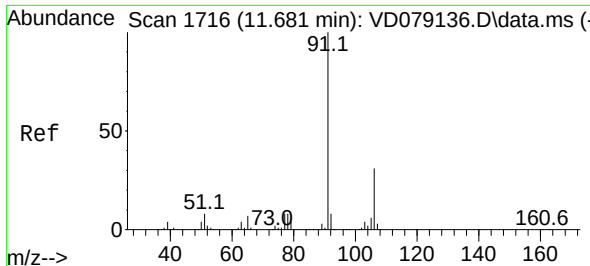
Ion Ratio Lower Upper

112 100

114 36.2 22.7 42.3

77 48.3 38.4 57.6





#52

Ethylbenzene

Concen: 0.183 ug/L

RT: 11.687 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

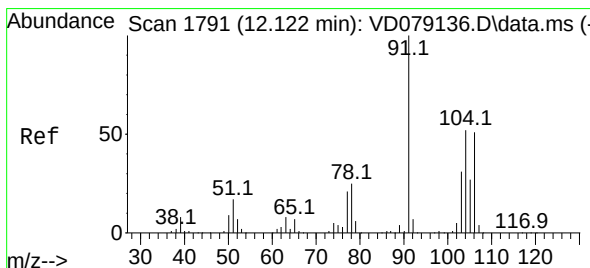
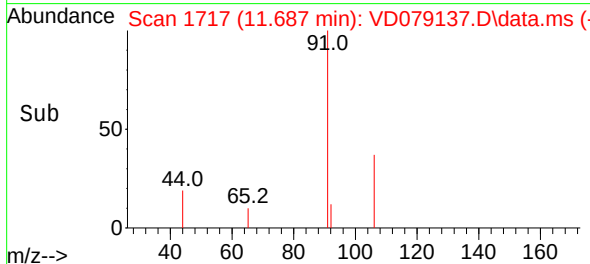
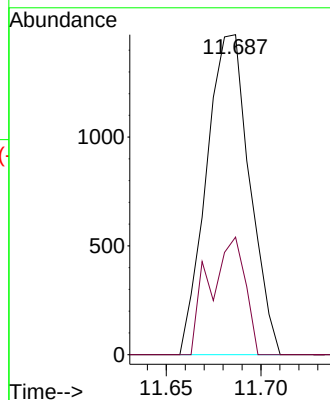
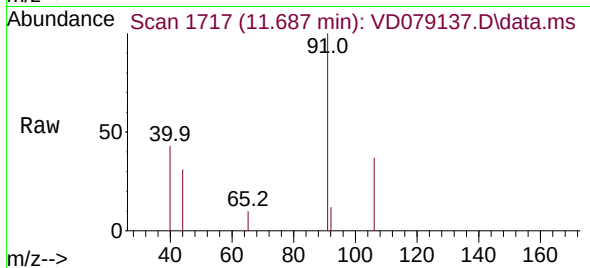
ClientSampleId :

Tgt Ion: 91 Resp: 2338

Ion Ratio Lower Upper

91 100

106 36.8 22.3 41.5



#54

o-Xylene

Concen: 0.132 ug/L

RT: 12.122 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VD079137.D

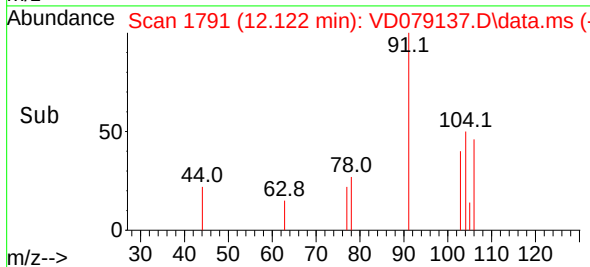
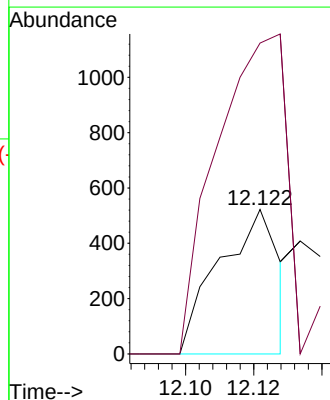
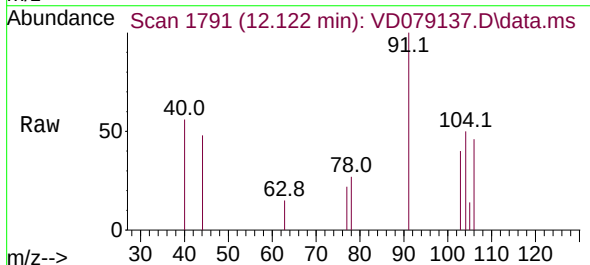
Acq: 04 Jun 2024 10:37

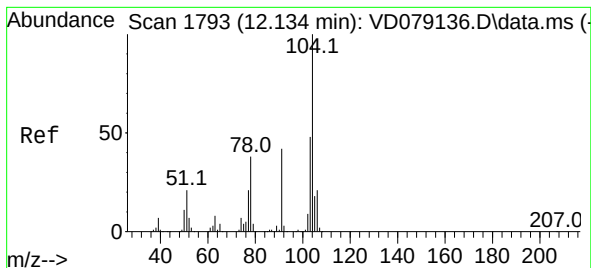
Tgt Ion:106 Resp: 639

Ion Ratio Lower Upper

106 100

91 215.3 132.9 246.9





#55

Styrene

Concen: 0.127 ug/L

RT: 12.134 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

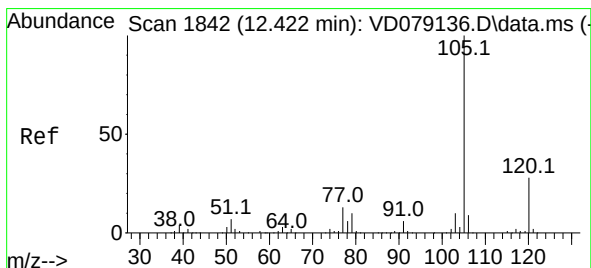
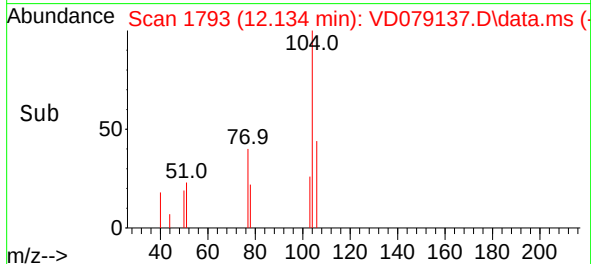
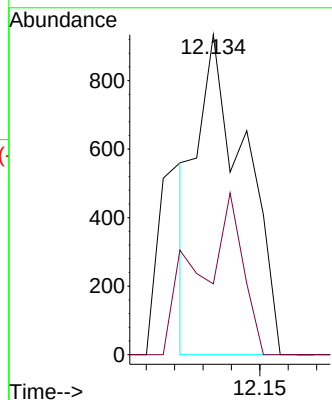
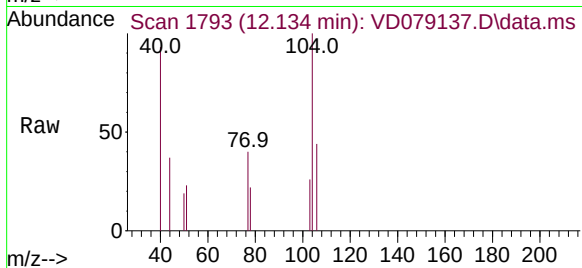
ClientSampleId :

Tgt Ion:104 Resp: 1095

Ion Ratio Lower Upper

104 100

78 22.2 27.8 51.6#



#60

Isopropylbenzene

Concen: 0.184 ug/L

RT: 12.422 min Scan# 1842

Delta R.T. 0.000 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

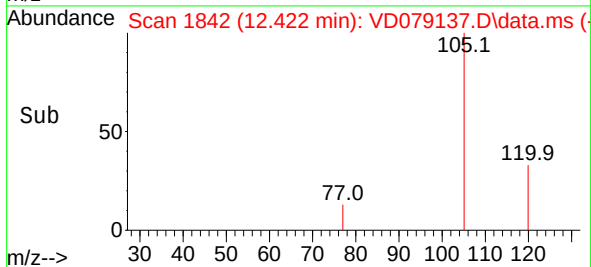
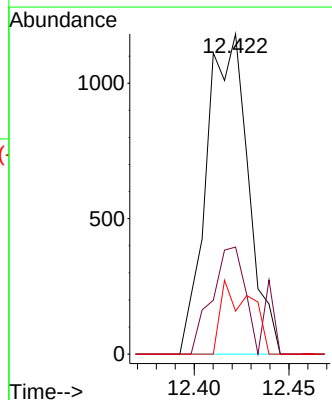
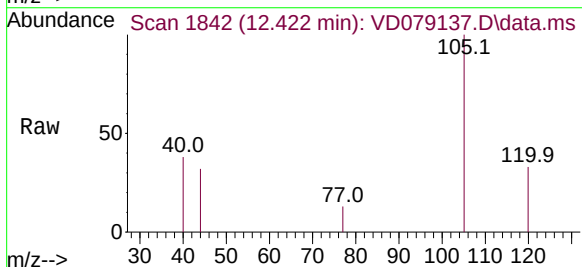
Tgt Ion:105 Resp: 1800

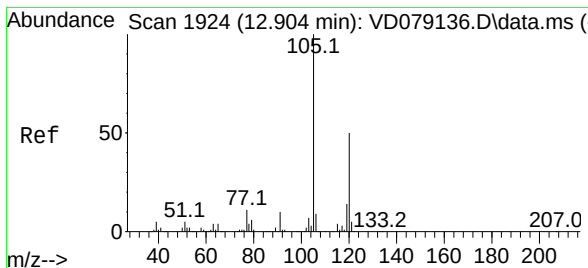
Ion Ratio Lower Upper

105 100

120 26.7 21.9 32.9

77 8.0 10.9 16.3#





#62

1,3,5-Trimethylbenzene

Concen: 0.195 ug/L

RT: 12.892 min Scan# 1922

Delta R.T. -0.012 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

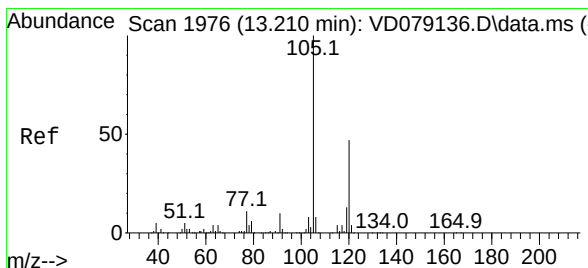
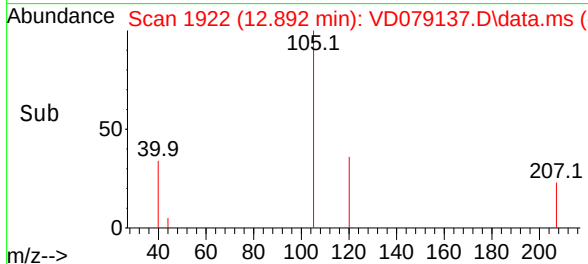
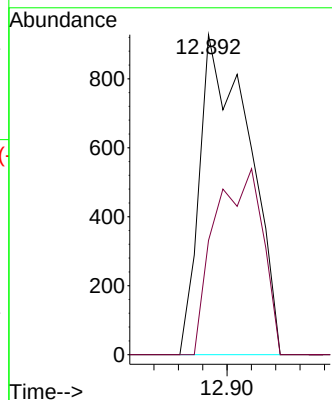
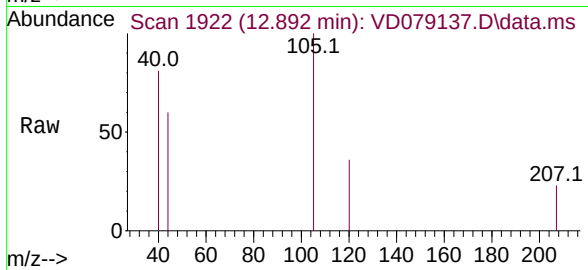
ClientSampleId :

Tgt Ion:105 Resp: 1307

Ion Ratio Lower Upper

105 100

120 56.5 40.7 61.1



#63

1,2,4-Trimethylbenzene

Concen: 0.183 ug/L

RT: 12.892 min Scan# 1922

Delta R.T. -0.318 min

Lab File: VD079137.D

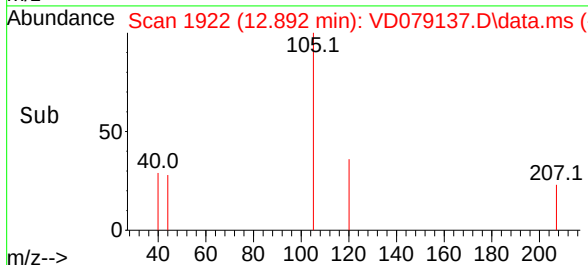
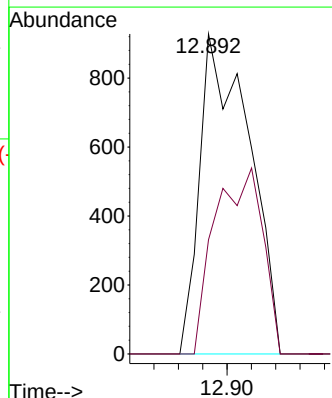
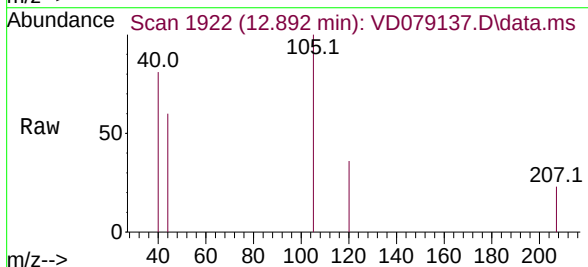
Acq: 04 Jun 2024 10:37

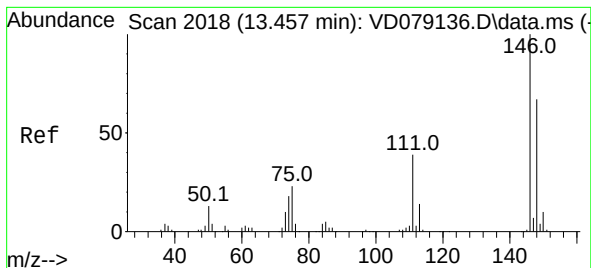
Tgt Ion:105 Resp: 1307

Ion Ratio Lower Upper

105 100

120 56.5 38.0 57.0





#64

1,3-Dichlorobenzene

Concen: 0.276 ug/L

RT: 13.457 min Scan# 2018

Delta R.T. 0.000 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

ClientSampleId :

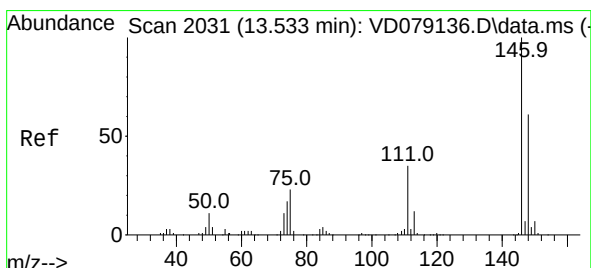
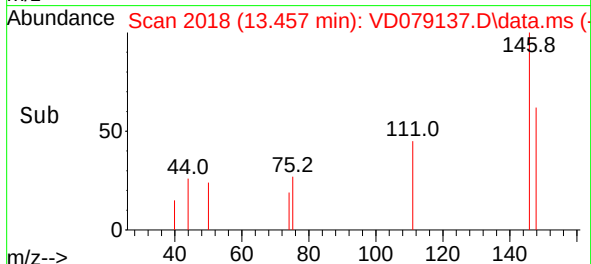
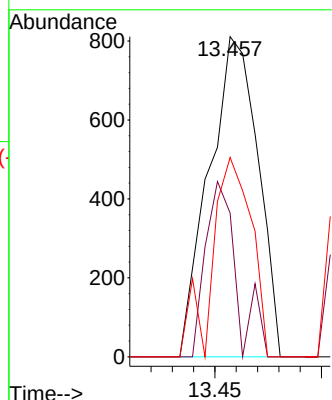
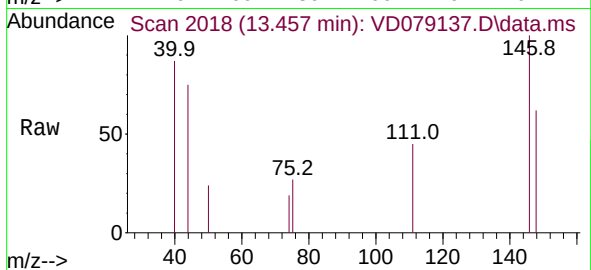
Tgt Ion:146 Resp: 1295

Ion Ratio Lower Upper

146 100

111 44.9 24.4 45.4

148 62.3 44.9 83.3



#65

1,4-Dichlorobenzene

Concen: 0.318 ug/L

RT: 13.534 min Scan# 2031

Delta R.T. 0.000 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

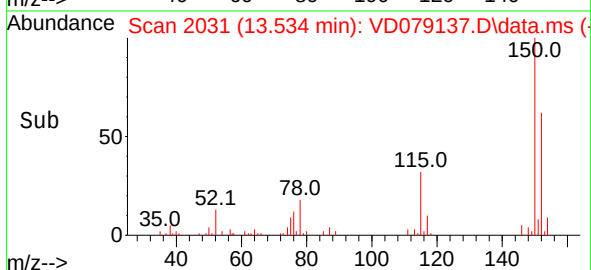
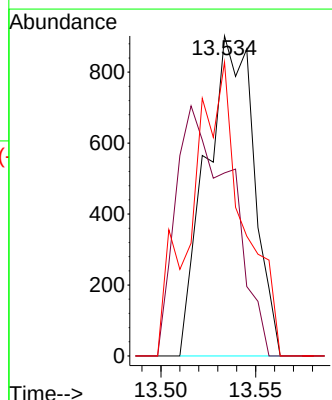
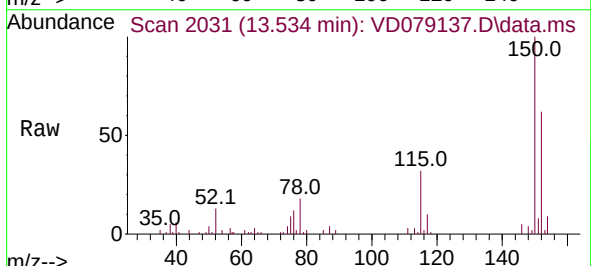
Tgt Ion:146 Resp: 1585

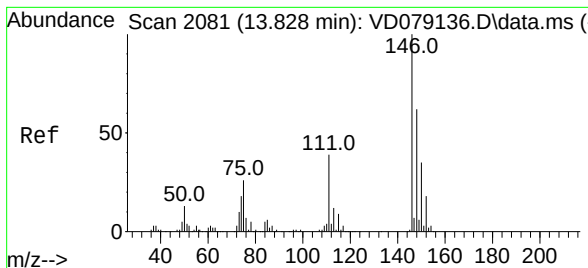
Ion Ratio Lower Upper

146 100

111 57.2 26.3 48.9#

148 91.8 43.1 80.1#





#67

1,2-Dichlorobenzene

Concen: 0.321 ug/L

RT: 13.828 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VD079137.D

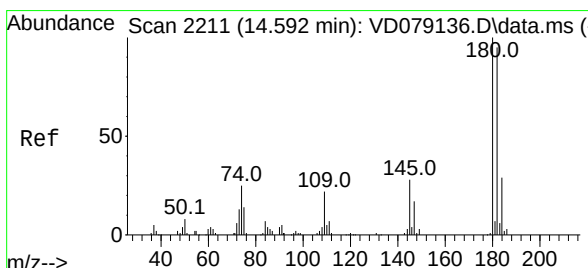
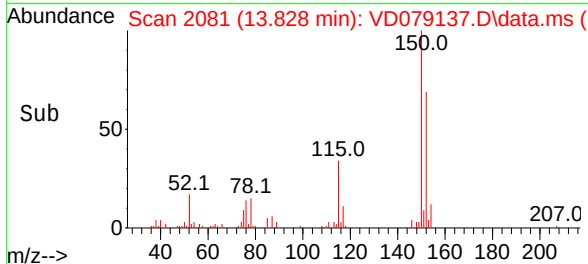
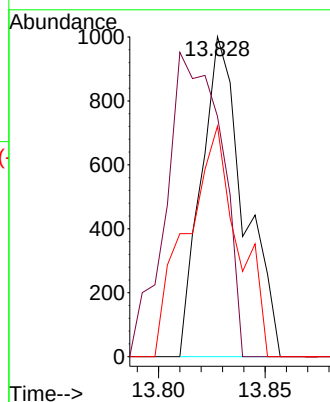
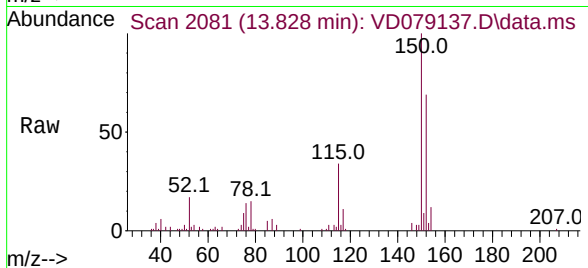
Acq: 04 Jun 2024 10:37

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:146	Resp:	1396
Ion	Ratio	Lower Upper
146	100	
111	75.1	29.1 43.7#
148	72.0	51.2 76.8



#69

1,3,5-Trichlorobenzene

Concen: 0.321 ug/L

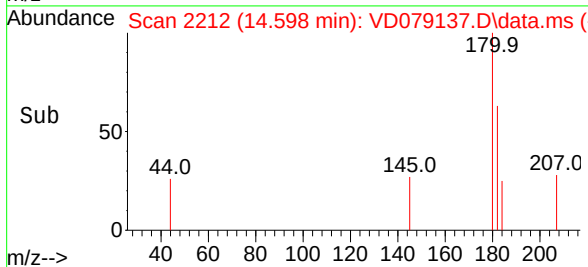
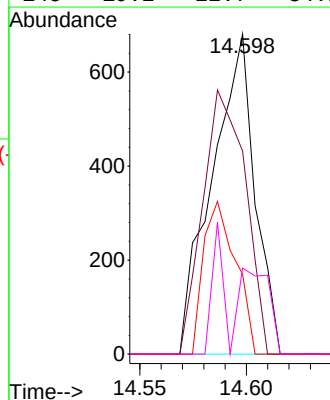
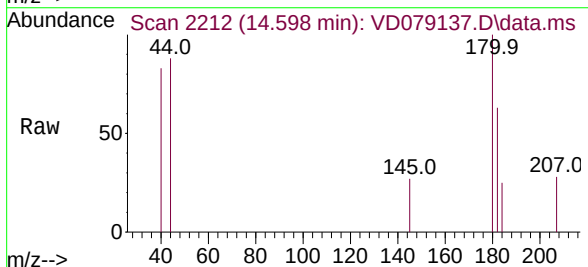
RT: 14.598 min Scan# 2212

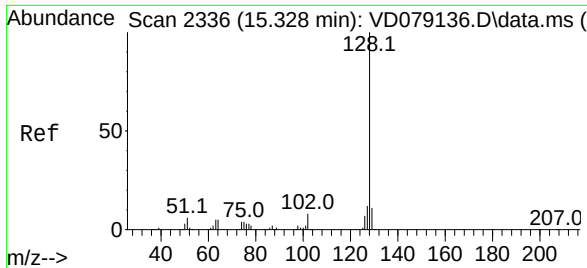
Delta R.T. 0.006 min

Lab File: VD079137.D

Acq: 04 Jun 2024 10:37

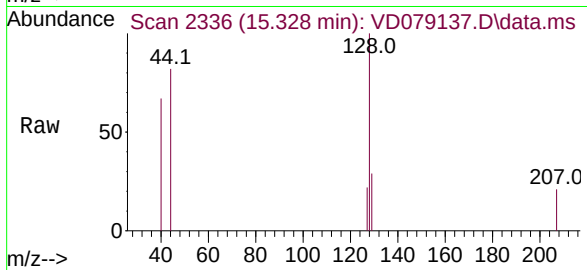
Tgt Ion:180	Resp:	950
Ion	Ratio	Lower Upper
180	100	
182	0.0	76.9 115.3#
184	0.0	23.3 34.9#
145	19.2	22.7 34.1#





#71
Naphthalene
Concen: 0.379 ug/L
RT: 15.328 min Scan# 24
Delta R.T. 0.000 min
Lab File: VD079137.D
Acq: 04 Jun 2024 10:37

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:	128	Resp:	1745
Ion	Ratio	Lower	Upper
128	100		
127	9.9	10.8	16.2#
129	8.7	8.5	12.7

