

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV050624\
 Data File : VV035535.D
 Acq On : 06 May 2024 14:55
 Operator : SY/MD
 Sample : VIBLK801
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 08 01:56:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM050624SMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 08 01:49:05 2024
 Response via : Initial Calibration

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

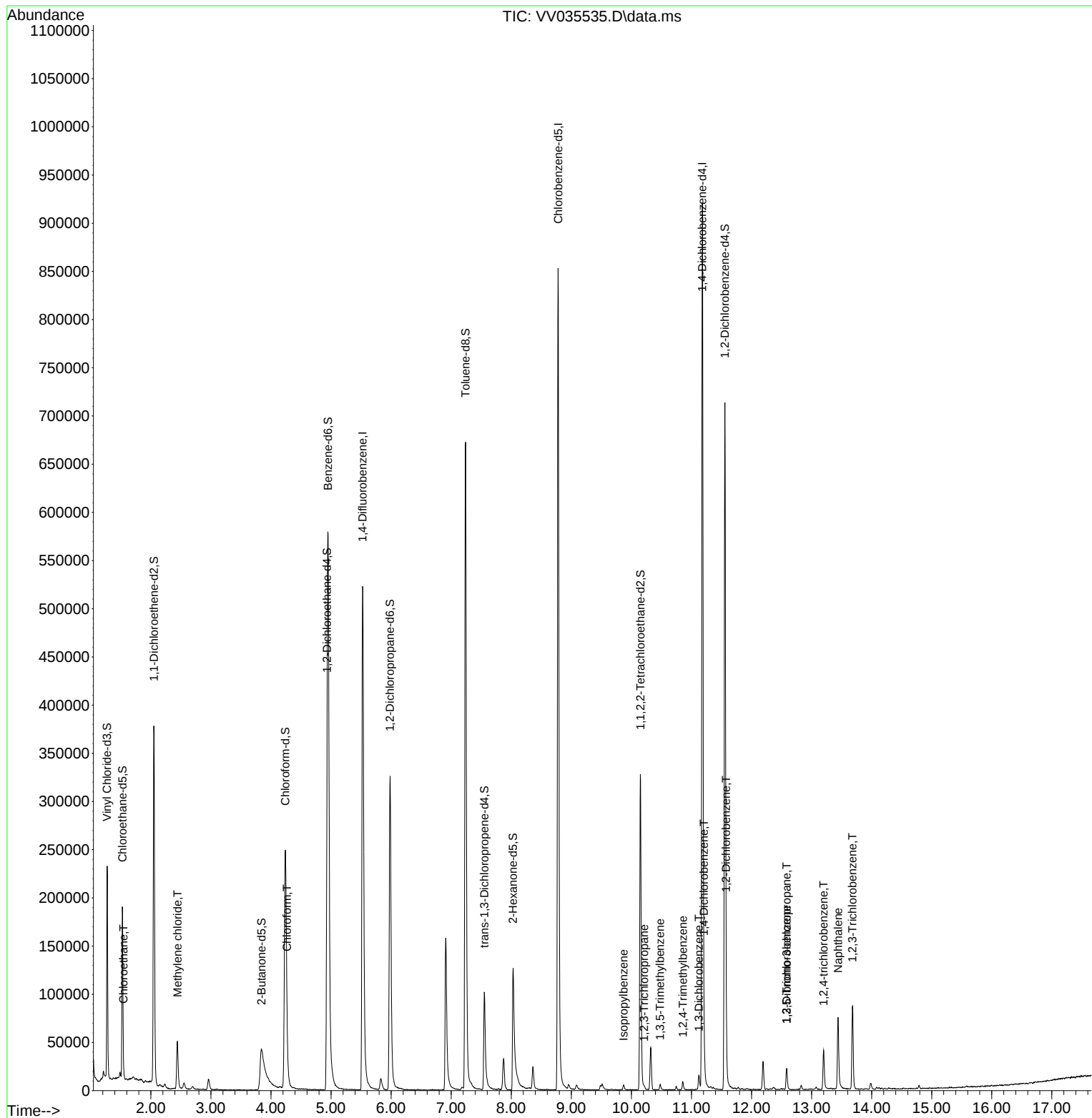
Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	492014	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	496020	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.182	152	250466	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	144487	19.000	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	76.000%		
7) Chloroethane-d5	1.526	69	120564	19.652	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	78.600%		
11) 1,1-Dichloroethene-d2	2.050	65	64588	19.184	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	76.720%		
21) 2-Butanone-d5	3.844	46	57830	26.796	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	53.600%		
24) Chloroform-d	4.240	84	284686	19.463	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	77.840%		
26) 1,2-Dichloroethane-d4	4.934	65	145746	20.155	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	80.640%		
32) Benzene-d6	4.950	84	555800	20.470	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	81.880%		
36) 1,2-Dichloropropane-d6	5.982	67	172153	20.545	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	82.200%		
41) Toluene-d8	7.240	98	479127	19.827	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	79.320%		
43) trans-1,3-Dichloroprop...	7.551	79	70082	19.556	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	78.240%		
47) 2-Hexanone-d5	8.031	63	57058	37.869	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	75.740%		
56) 1,1,2,2-Tetrachloroeth...	10.149	84	164159	20.331	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	81.320%		
66) 1,2-Dichlorobenzene-d4	11.558	152	193790	22.294	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	89.160%		
Target Compounds						Qvalue
8) Chloroethane	1.542	64	443	0.069	ug/L #	78
16) Methylene chloride	2.442	84	22649	1.996	ug/L	95
25) Chloroform	4.265	83	3382	0.204	ug/L #	61
60) Isopropylbenzene	9.870	105	3600	0.108	ug/L	97
61) 1,2,3-Trichloropropane	10.214	75	1272	0.217	ug/L #	83
62) 1,3,5-Trimethylbenzene	10.477	105	3766	0.144	ug/L	96
63) 1,2,4-Trimethylbenzene	10.857	105	4915	0.183	ug/L	96
64) 1,3-Dichlorobenzene	11.127	146	6895	0.394	ug/L	96
65) 1,4-Dichlorobenzene	11.207	146	10977	0.606	ug/L	97
67) 1,2-Dichlorobenzene	11.577	146	8074	0.490	ug/L	92
68) 1,2-Dibromo-3-chloropr...	12.583	75	1252	0.920	ug/L #	1
69) 1,3,5-Trichlorobenzene	12.583	180	7907	0.578	ug/L	98
70) 1,2,4-trichlorobenzene	13.201	180	13756	1.204	ug/L	98
71) Naphthalene	13.442	128	64180	3.200	ug/L	98
72) 1,2,3-Trichlorobenzene	13.680	180	15365	1.495	ug/L	98

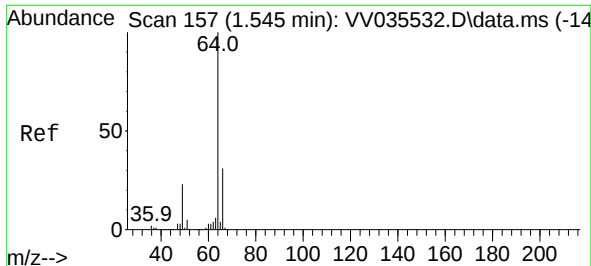
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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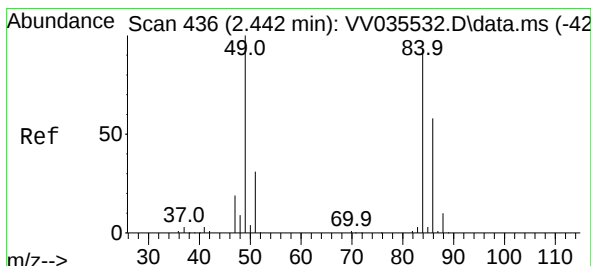
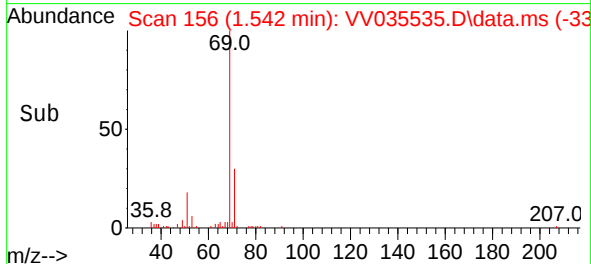
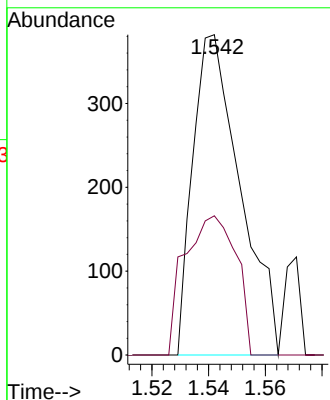
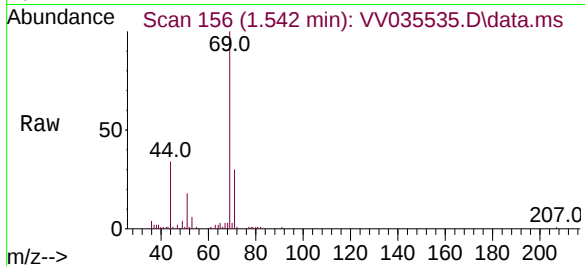




#8
Chloroethane
Concen: 0.069 ug/L
RT: 1.542 min Scan# 156
Delta R.T. -0.003 min
Lab File: VV035535.D
Acq: 06 May 2024 14:55

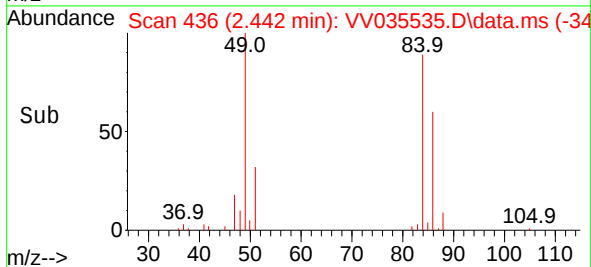
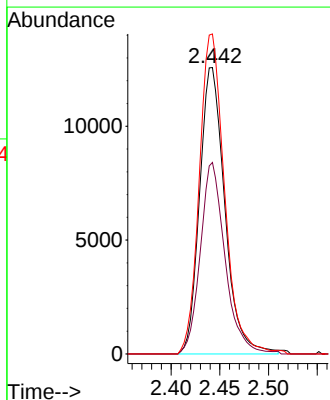
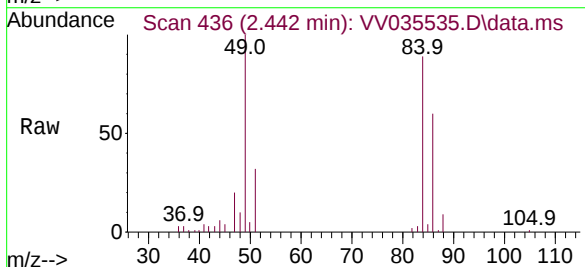
Instrument :
MSVOA_V
ClientSampleId :

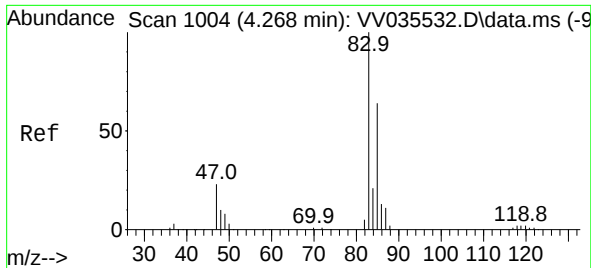
Tgt Ion: 64 Resp: 443
Ion Ratio Lower Upper
64 100
66 43.5 22.0 40.8#



#16
Methylene chloride
Concen: 1.996 ug/L
RT: 2.442 min Scan# 436
Delta R.T. 0.000 min
Lab File: VV035535.D
Acq: 06 May 2024 14:55

Tgt Ion: 84 Resp: 22649
Ion Ratio Lower Upper
84 100
86 66.9 43.8 81.3
49 111.8 75.3 139.9





#25

Chloroform

Concen: 0.204 ug/L

RT: 4.265 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

Instrument :

MSVOA_V

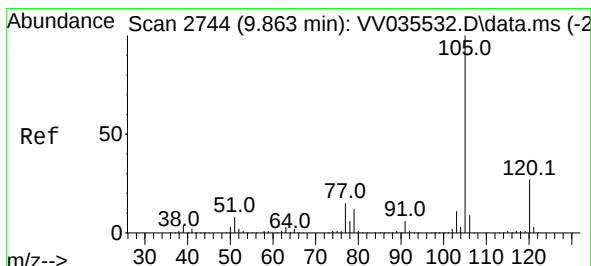
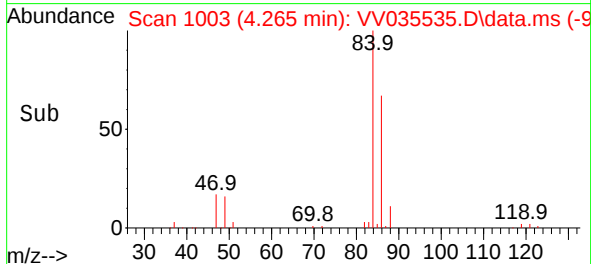
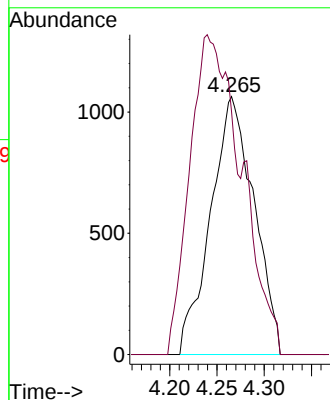
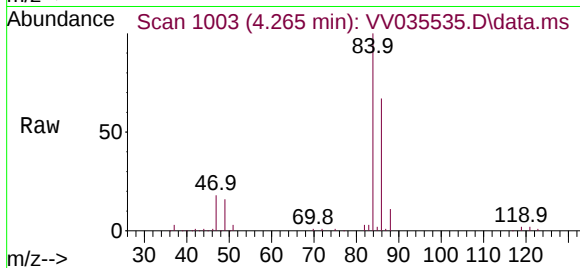
ClientSampleId :

Tgt Ion: 83 Resp: 3382

Ion Ratio Lower Upper

83 100

85 94.1 44.7 82.9#



#60

Isopropylbenzene

Concen: 0.108 ug/L

RT: 9.870 min Scan# 2746

Delta R.T. 0.007 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

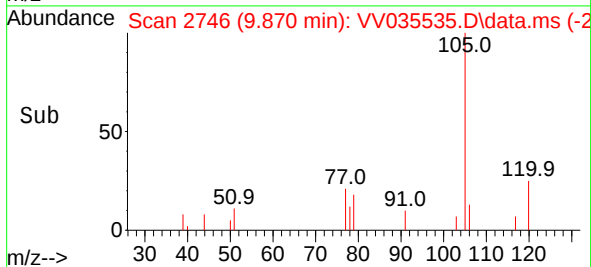
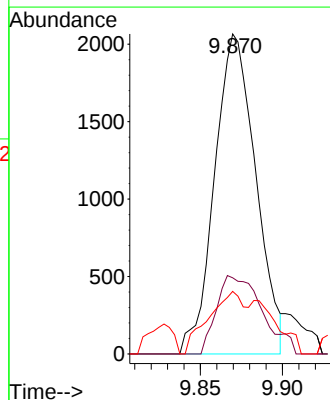
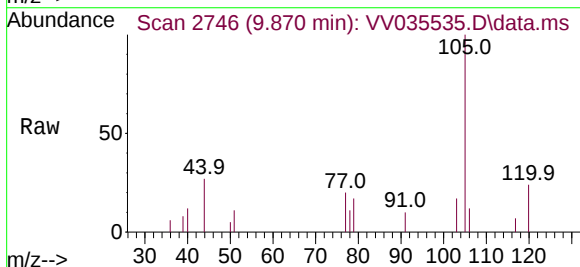
Tgt Ion:105 Resp: 3600

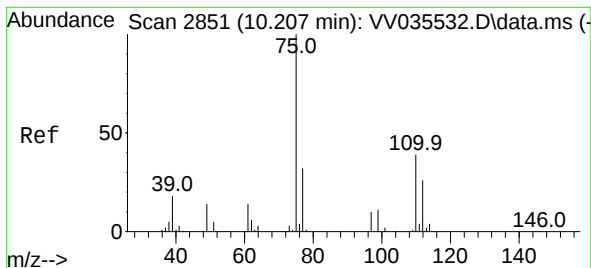
Ion Ratio Lower Upper

105 100

120 25.8 21.3 31.9

77 17.7 12.2 18.2





#61

1,2,3-Trichloropropane

Concen: 0.217 ug/L

RT: 10.214 min Scan# 21

Delta R.T. 0.007 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

Instrument :

MSVOA_V

ClientSampleId :

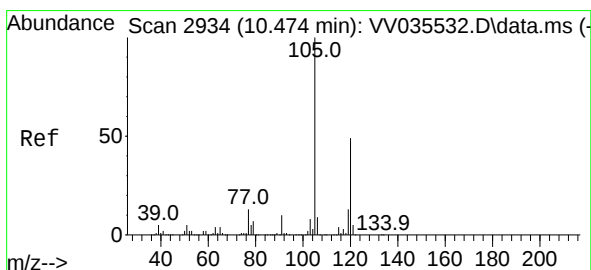
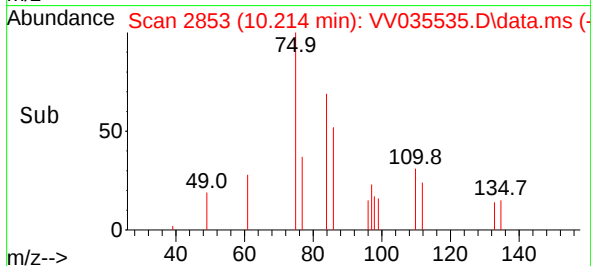
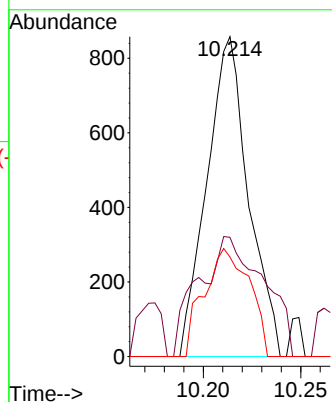
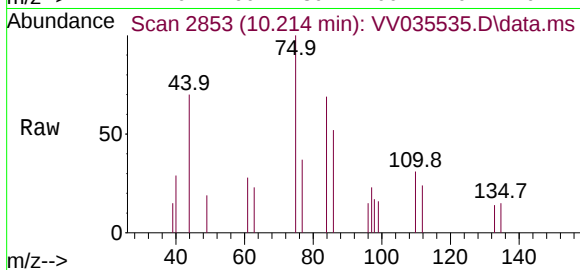
Tgt Ion: 75 Resp: 1272

Ion Ratio Lower Upper

75 100

77 41.8 25.7 38.5#

110 29.9 31.8 47.8#



#62

1,3,5-Trimethylbenzene

Concen: 0.144 ug/L

RT: 10.477 min Scan# 2935

Delta R.T. 0.003 min

Lab File: VV035535.D

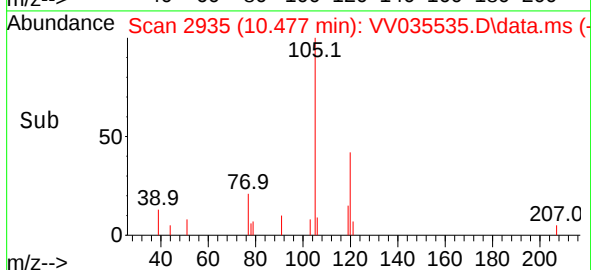
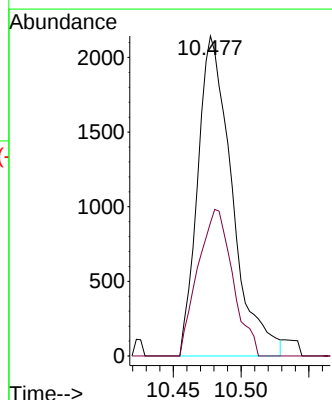
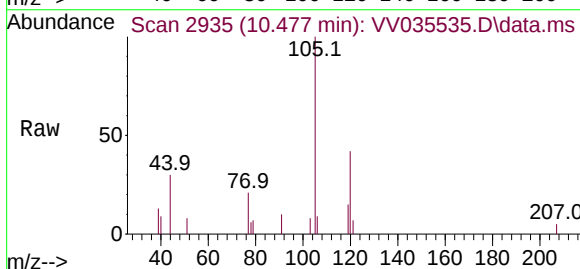
Acq: 06 May 2024 14:55

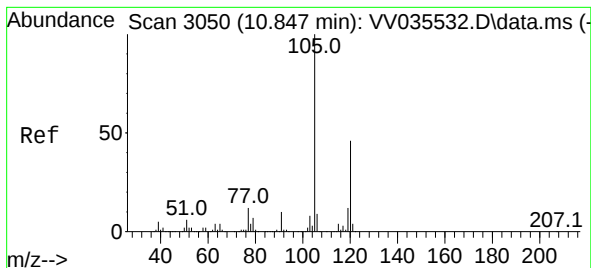
Tgt Ion: 105 Resp: 3766

Ion Ratio Lower Upper

105 100

120 46.4 39.4 59.0





#63

1,2,4-Trimethylbenzene

Concen: 0.183 ug/L

RT: 10.857 min Scan# 3050

Delta R.T. 0.010 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

Instrument :

MSVOA_V

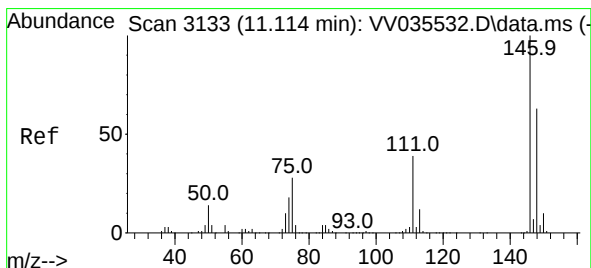
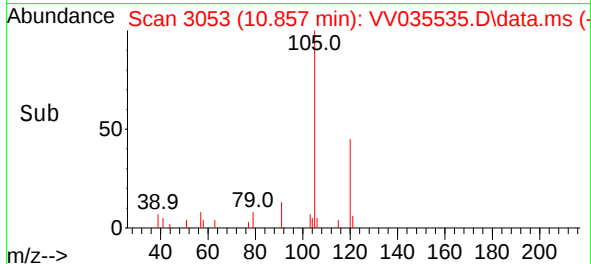
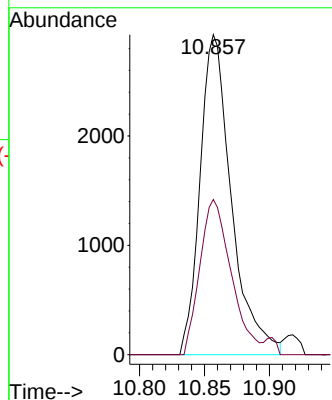
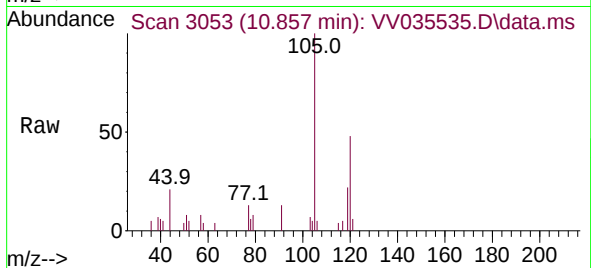
ClientSampleId :

Tgt Ion:105 Resp: 4915

Ion Ratio Lower Upper

105 100

120 48.3 36.6 55.0



#64

1,3-Dichlorobenzene

Concen: 0.394 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.013 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

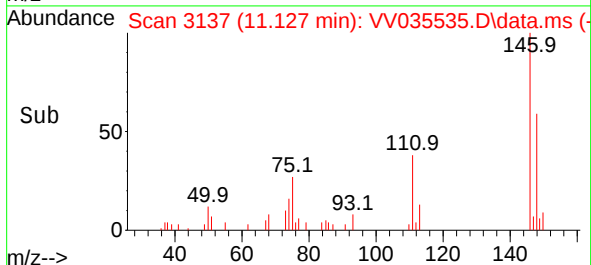
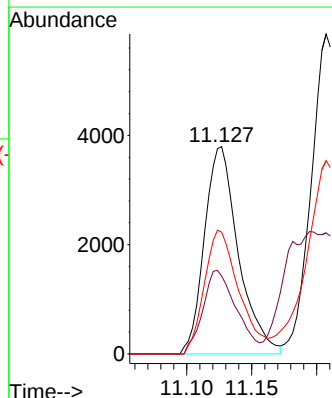
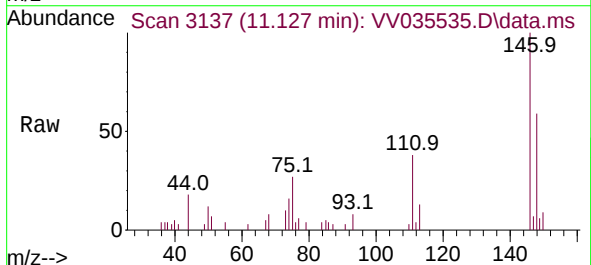
Tgt Ion:146 Resp: 6895

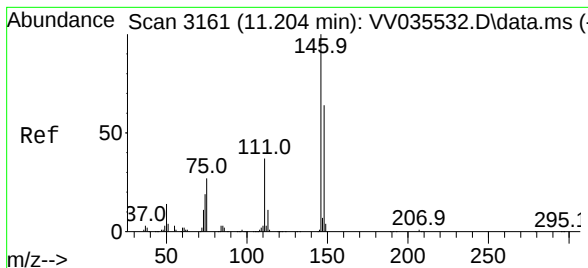
Ion Ratio Lower Upper

146 100

111 37.6 27.0 50.2

148 58.7 44.3 82.3





#65

1,4-Dichlorobenzene

Concen: 0.606 ug/L

RT: 11.207 min Scan# 3161

Delta R.T. 0.003 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

Instrument :

MSVOA_V

ClientSampleId :

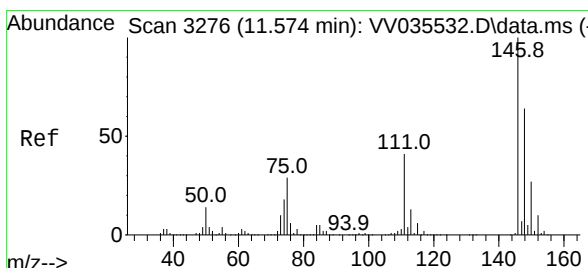
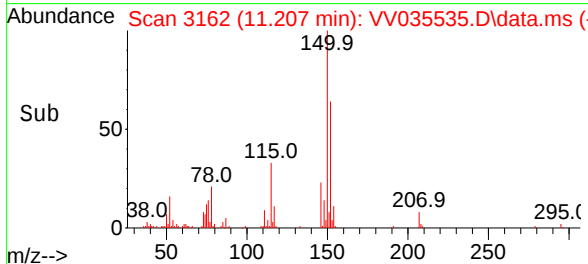
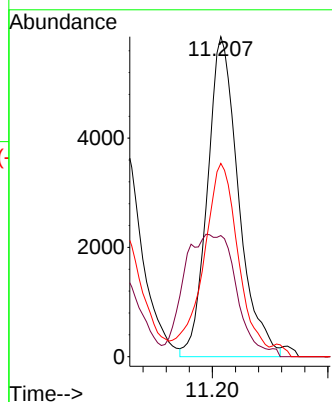
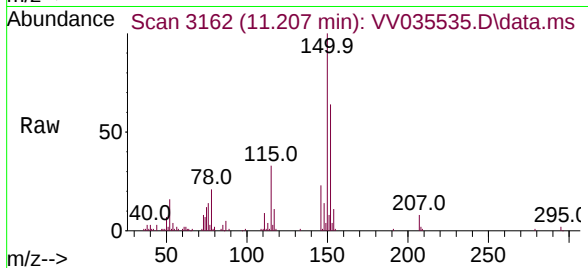
Tgt Ion:146 Resp: 10977

Ion Ratio Lower Upper

146 100

111 37.8 26.2 48.6

148 60.4 44.9 83.3



#67

1,2-Dichlorobenzene

Concen: 0.490 ug/L

RT: 11.577 min Scan# 3277

Delta R.T. 0.003 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

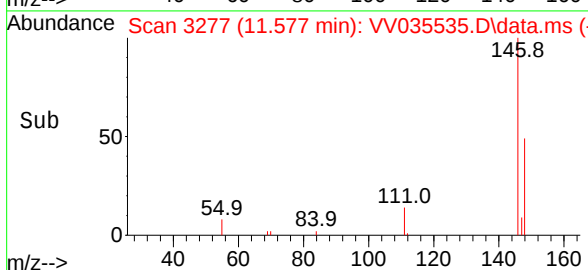
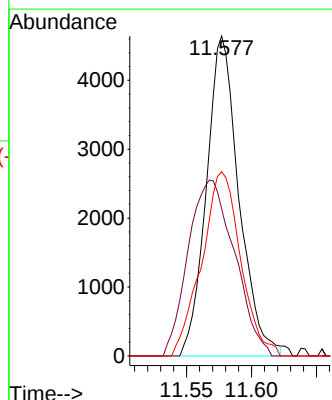
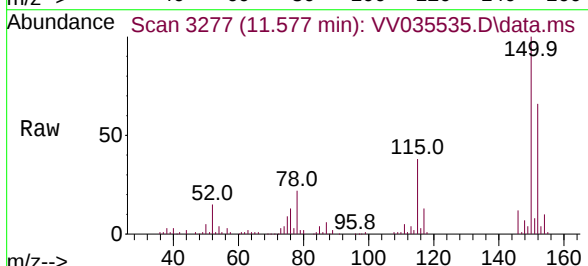
Tgt Ion:146 Resp: 8074

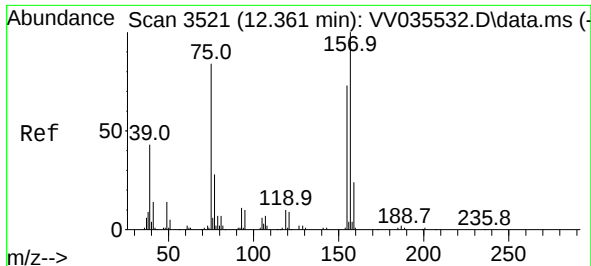
Ion Ratio Lower Upper

146 100

111 46.0 32.6 48.8

148 57.6 51.1 76.7





#68

1,2-Dibromo-3-chloropropane

Concen: 0.920 ug/L

RT: 12.583 min Scan# 3590

Delta R.T. 0.222 min

Lab File: VV035535.D

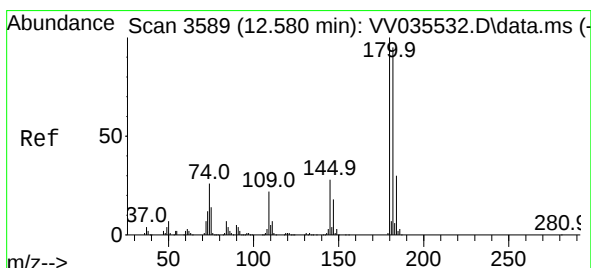
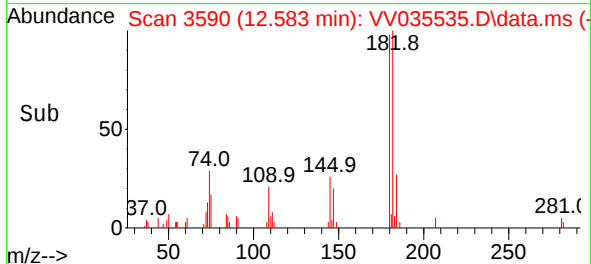
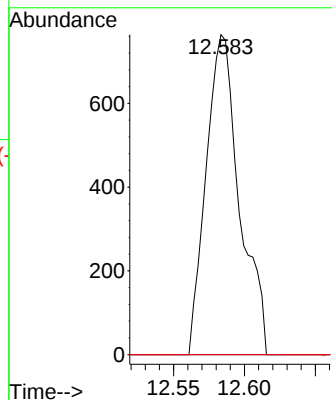
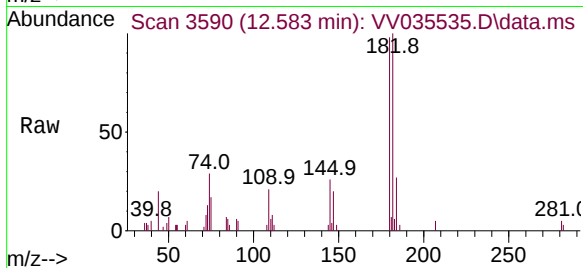
Acq: 06 May 2024 14:55

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 75	Resp:	1252
Ion Ratio	Lower	Upper
75	100	
155	0.0	69.8 104.6#
157	0.0	95.0 142.6#



#69

1,3,5-Trichlorobenzene

Concen: 0.578 ug/L

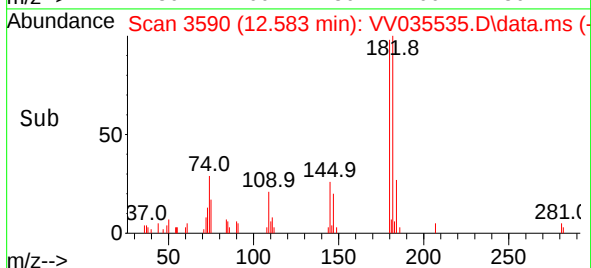
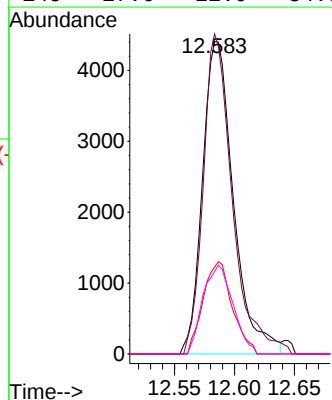
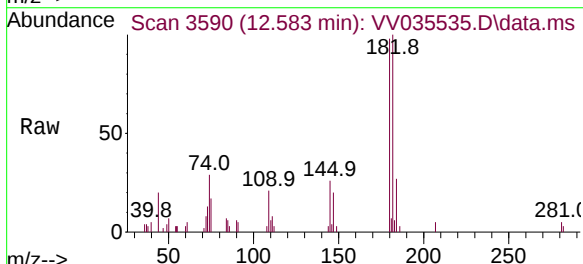
RT: 12.583 min Scan# 3590

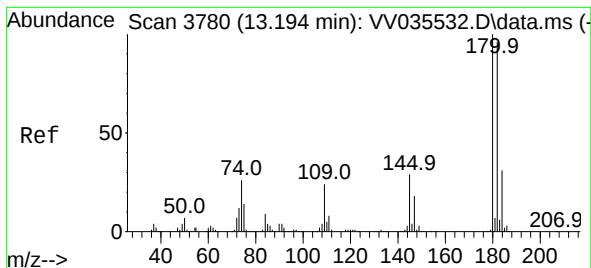
Delta R.T. 0.003 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

Tgt Ion: 180	Resp:	7907
Ion Ratio	Lower	Upper
180	100	
182	96.2	76.2 114.2
184	27.8	24.1 36.1
145	27.6	22.9 34.3





#70

1,2,4-trichlorobenzene

Concen: 1.204 ug/L

RT: 13.201 min Scan# 31

Delta R.T. 0.007 min

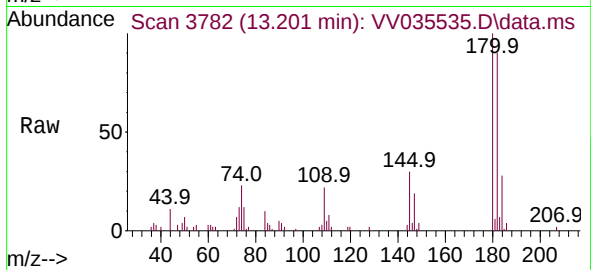
Lab File: VV035535.D

Acq: 06 May 2024 14:55

Instrument :

MSVOA_V

ClientSampleId :



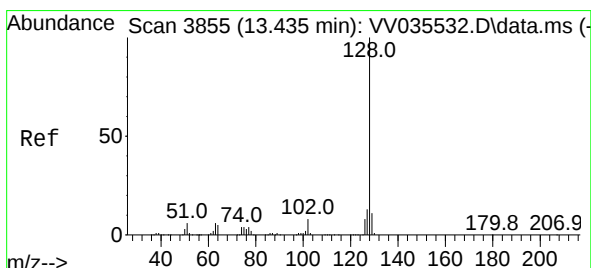
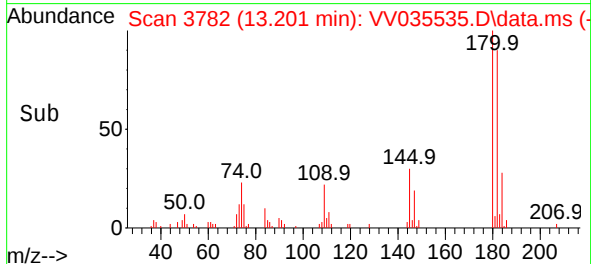
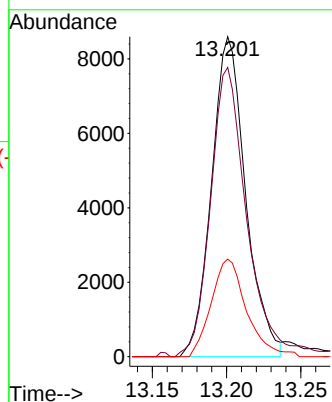
Tgt Ion:180 Resp: 13756

Ion Ratio Lower Upper

180 100

182 94.3 76.6 114.8

145 31.2 23.2 34.8



#71

Naphthalene

Concen: 3.200 ug/L

RT: 13.442 min Scan# 3857

Delta R.T. 0.007 min

Lab File: VV035535.D

Acq: 06 May 2024 14:55

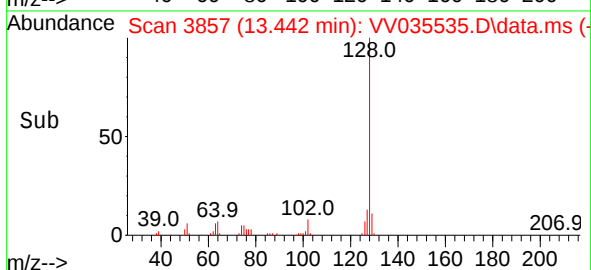
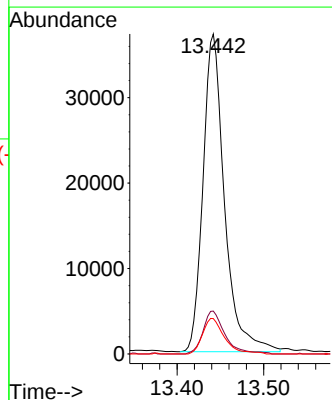
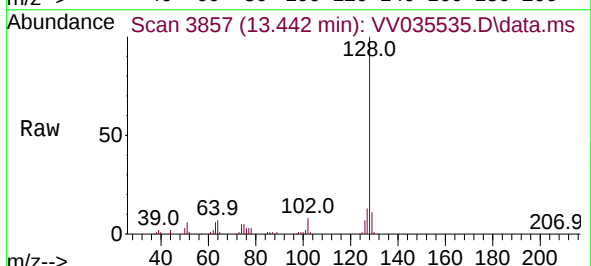
Tgt Ion:128 Resp: 64180

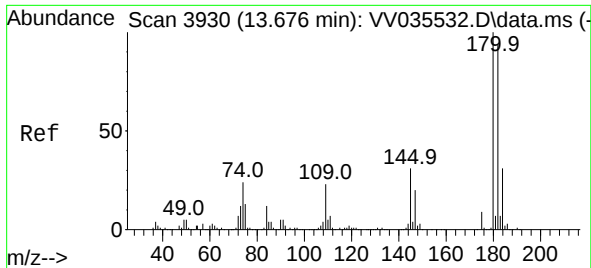
Ion Ratio Lower Upper

128 100

127 13.8 10.4 15.6

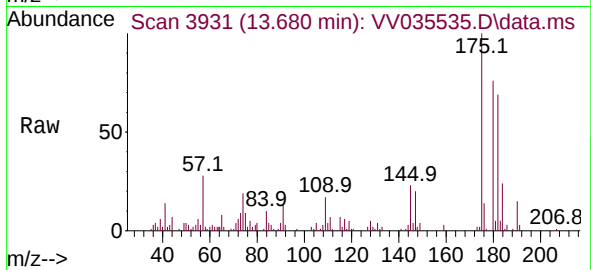
129 11.4 8.6 13.0





#72
 1,2,3-Trichlorobenzene
 Concen: 1.495 ug/L
 RT: 13.680 min Scan# 3931
 Delta R.T. 0.003 min
 Lab File: VV035535.D
 Acq: 06 May 2024 14:55

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	180	Resp:	15365
Ion Ratio	Lower	Upper	
180	100		
182	92.2	75.8	113.6
145	31.3	25.2	37.8

