

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW070124\
 Data File : VW036367.D
 Acq On : 01 Jul 2024 11:58
 Operator : SY/MD
 Sample : P3035-29
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 02 02:36:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 02 02:29:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	297002	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	323701	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	133649	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	120914	23.972	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.880%
7) Chloroethane-d5	1.529	69	104440	25.923	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.680%
11) 1,1-Dichloroethene-d2	2.053	65	58515	24.677	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.720%
21) 2-Butanone-d5	3.847	46	31348	26.778	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	53.560%
24) Chloroform-d	4.243	84	270082	30.807	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	123.240%
26) 1,2-Dichloroethane-d4	4.937	65	133906	28.642	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	114.560%
32) Benzene-d6	4.953	84	438970	24.023	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.080%
36) 1,2-Dichloropropane-d6	5.985	67	142643	25.952	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.800%
41) Toluene-d8	7.239	98	423801	25.723	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.880%
43) trans-1,3-Dichloroprop...	7.548	79	61986	25.255	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.000%
47) 2-Hexanone-d5	8.030	63	45663	52.047	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.100%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	113754	25.248	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.000%
66) 1,2-Dichlorobenzene-d4	11.557	152	140135	28.773	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	115.080%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.059	101	3196	0.605	ug/L #	33
12) 1,1-Dichloroethene	2.063	96	441396	94.351	ug/L #	72
13) Acetone	2.159	43	291151	184.087	ug/L #	63
16) Methylene chloride	2.439	84	296257	50.667	ug/L	99
18) Methyl tert-butyl Ether	2.703	73	1163124	107.572	ug/L	100
19) 1,1-Dichloroethane	3.104	63	558293	67.601	ug/L	99
22) 2-Butanone	3.899	43	301680	226.217	ug/L	92
25) Chloroform	4.268	83	816184	92.658	ug/L	99
30) 1,1,1-Trichloroethane	4.516	97	3409	0.425	ug/L #	42
33) Benzene	5.005	78	324944	16.948	ug/L	100
37) 1,2-Dichloropropane	6.088	63	205354	41.939	ug/L	98
38) Bromodichloromethane	6.429	83	137139	20.478	ug/L	100
39) cis-1,3-Dichloropropene	6.950	75	519721	69.025	ug/L	99
40) 4-Methyl-2-pentanone	7.156	43	443235	160.504	ug/L	99
42) Toluene	7.310	91	825109	41.159	ug/L	99
44) trans-1,3-Dichloropropene	7.574	75	618661	91.353	ug/L	99
45) 1,1,2-Trichloroethane	7.767	97	82455	19.052	ug/L	97
46) Tetrachloroethene	7.902	164	172359	39.199	ug/L	98
48) 2-Hexanone	8.075	43	458815	211.227	ug/L	97

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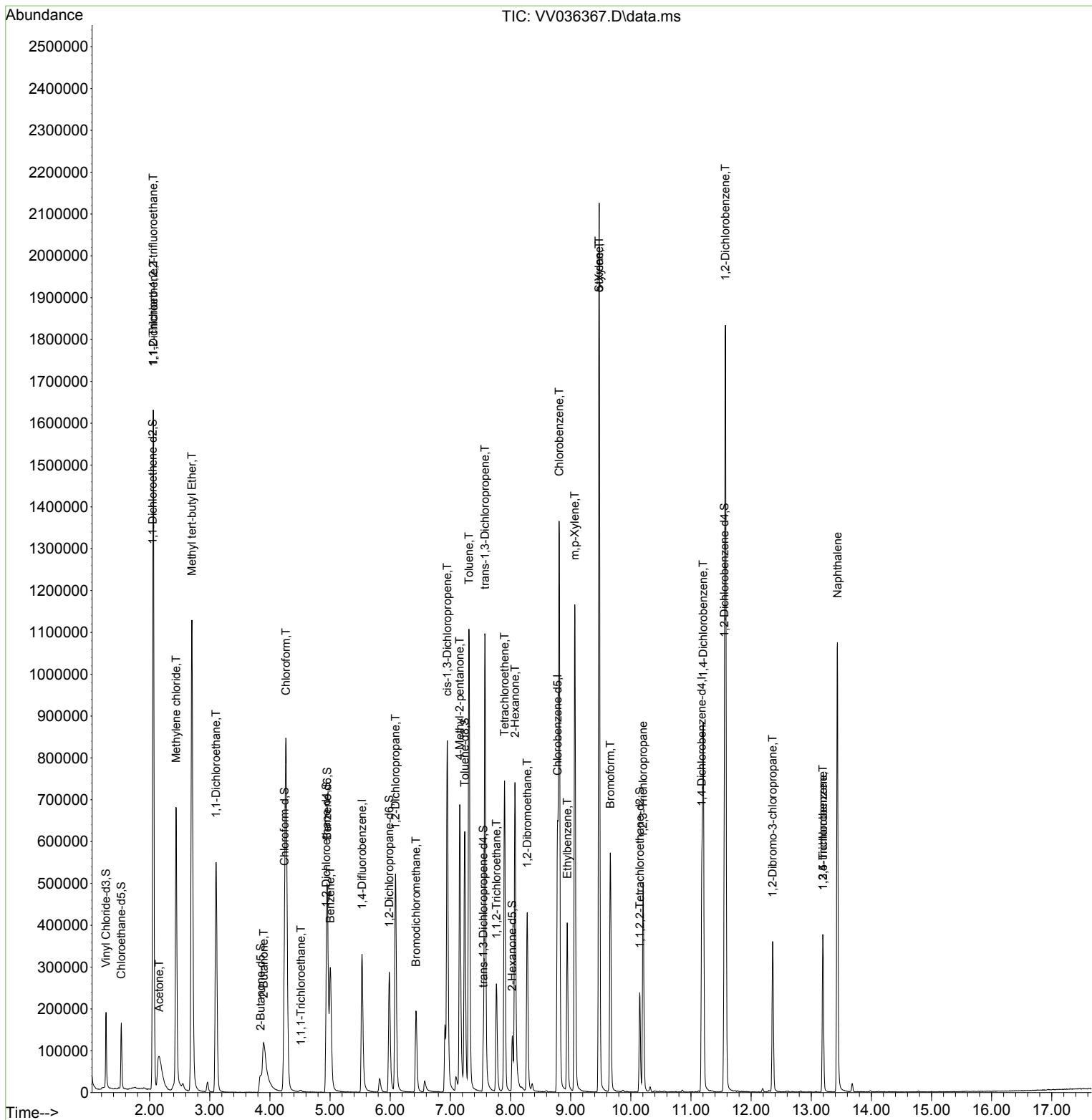
Quant Time: Jul 02 02:36:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
 Quant Title : VOC Analysis
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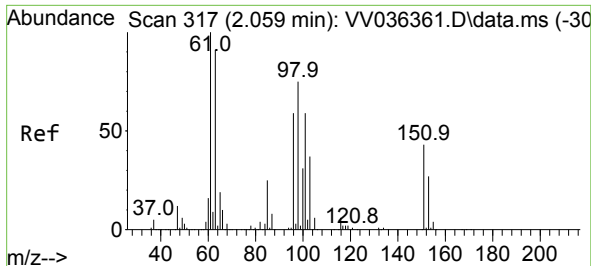
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

50) 1,2-Dibromoethane	8.278	107	285926	67.061	ug/L	97
51) Chlorobenzene	8.808	112	745831	54.426	ug/L	99
52) Ethylbenzene	8.943	91	277931	12.847	ug/L	100
53) m,p-Xylene	9.069	106	323965	40.179	ug/L	100
54) o-Xylene	9.474	106	527405	69.557	ug/L	97
55) Styrene	9.474	104	32512	2.447	ug/L #	1
59) Bromoform	9.660	173	254127	100.449	ug/L	99
61) 1,2,3-Trichloropropane	10.204	75	205753	68.219	ug/L	99
65) 1,4-Dichlorobenzene	11.204	146	346152	38.360	ug/L	99
67) 1,2-Dichlorobenzene	11.574	146	692951	86.222	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.358	75	88180	130.316	ug/L	93
69) 1,3,5-Trichlorobenzene	13.194	180	117943	18.606	ug/L	99
70) 1,2,4-trichlorobenzene	13.194	180	117943	23.332	ug/L	99
71) Naphthalene	13.435	128	819178	90.889	ug/L	100

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

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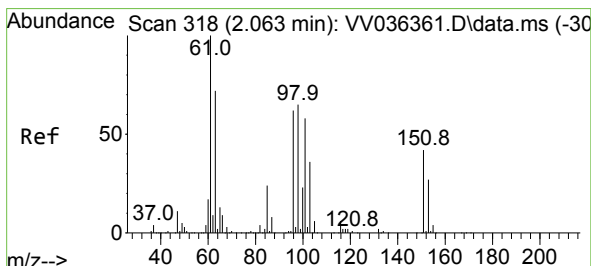
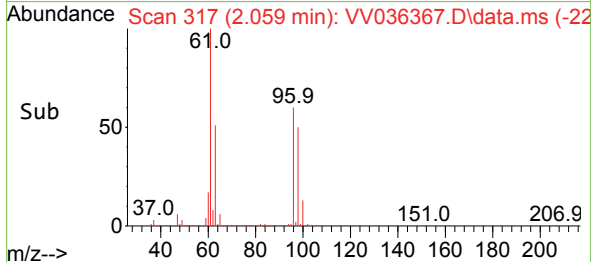
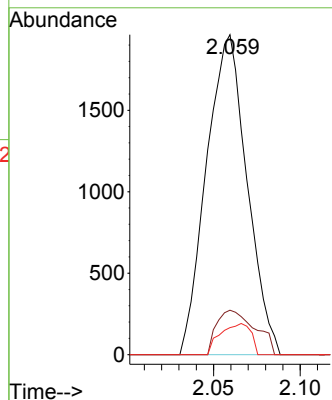
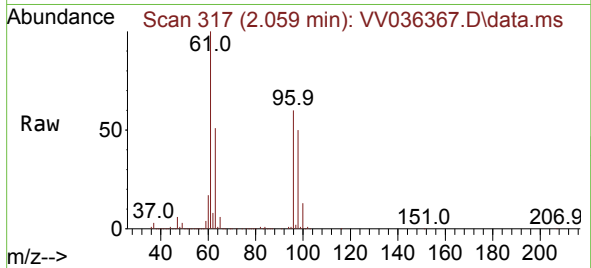




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.605 ug/L
 RT: 2.059 min Scan# 317
 Delta R.T. 0.000 min
 Lab File: VV036367.D
 Acq: 01 Jul 2024 11:58

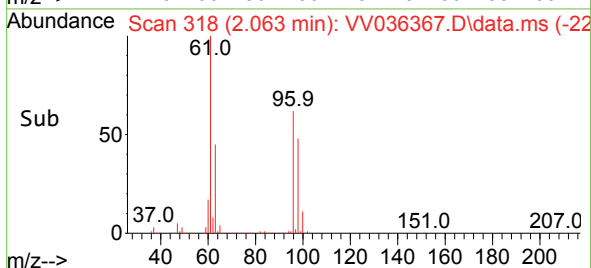
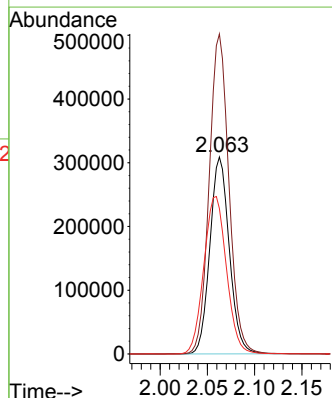
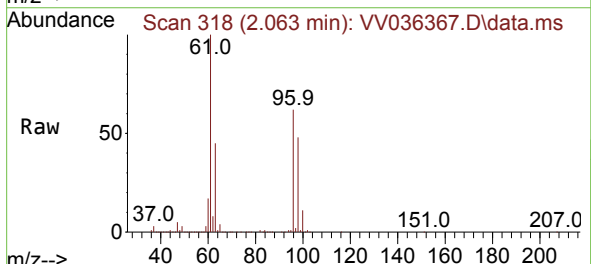
Instrument :
 MSVOA_V
 ClientSampleId :

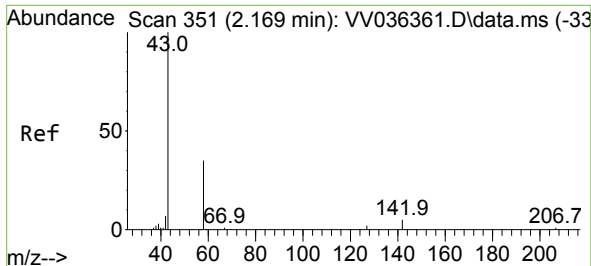
Tgt Ion:101 Resp: 3196
 Ion Ratio Lower Upper
 101 100
 85 12.4 34.6 51.8#
 151 7.3 58.9 88.3#



#12
 1,1-Dichloroethene
 Concen: 94.351 ug/L
 RT: 2.063 min Scan# 318
 Delta R.T. 0.000 min
 Lab File: VV036367.D
 Acq: 01 Jul 2024 11:58

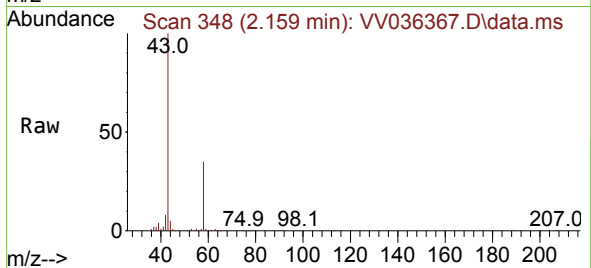
Tgt Ion: 96 Resp: 441396
 Ion Ratio Lower Upper
 96 100
 61 162.5 122.6 227.8
 63 73.9 96.1 178.5#



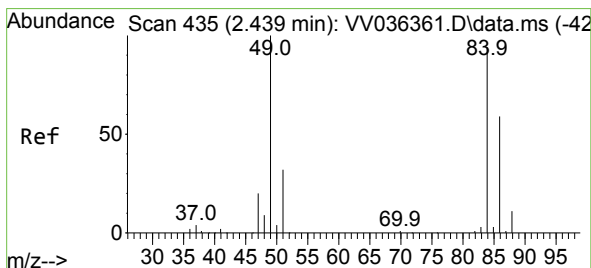
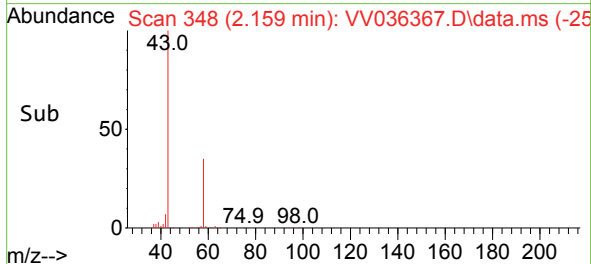
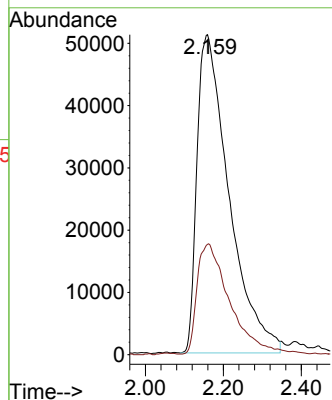


#13
Acetone
Concen: 184.087 ug/L
RT: 2.159 min Scan# 34
Delta R.T. -0.010 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

Instrument :
MSVOA_V
ClientSampleId :

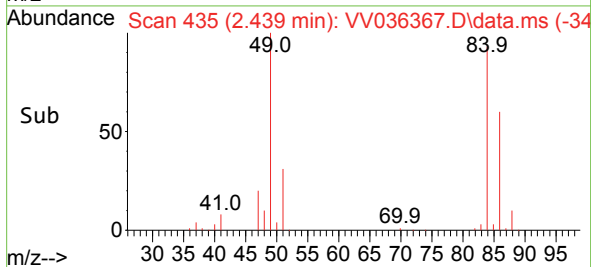
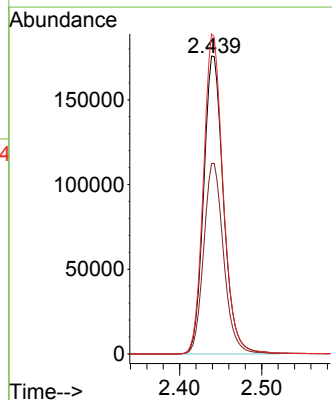
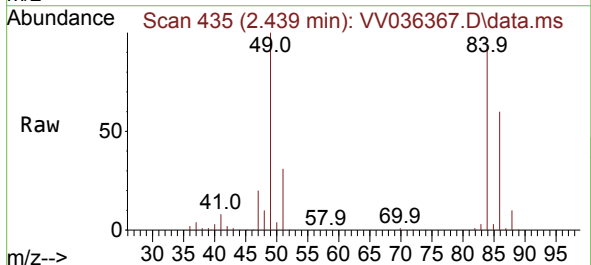


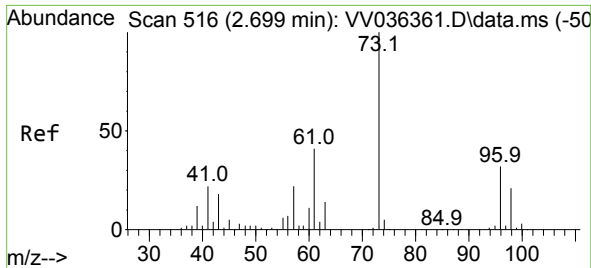
Tgt Ion: 43 Resp: 291151
Ion Ratio Lower Upper
43 100
58 34.6 0.0 0.6#



#16
Methylene chloride
Concen: 50.667 ug/L
RT: 2.439 min Scan# 435
Delta R.T. 0.000 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

Tgt Ion: 84 Resp: 296257
Ion Ratio Lower Upper
84 100
86 64.0 45.6 84.8
49 107.4 75.7 140.5

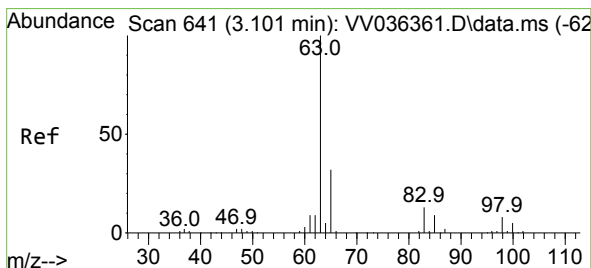
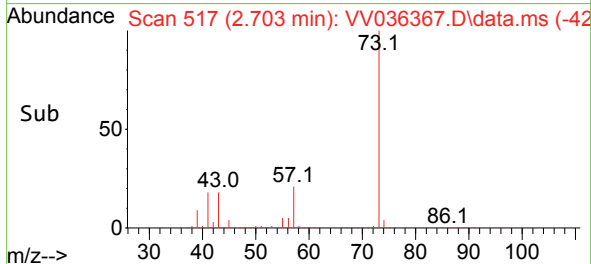
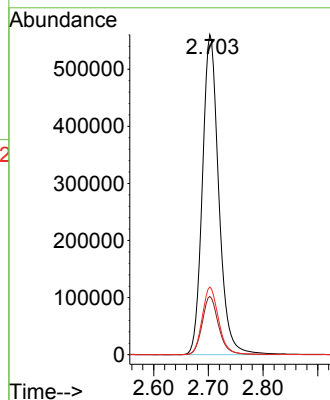
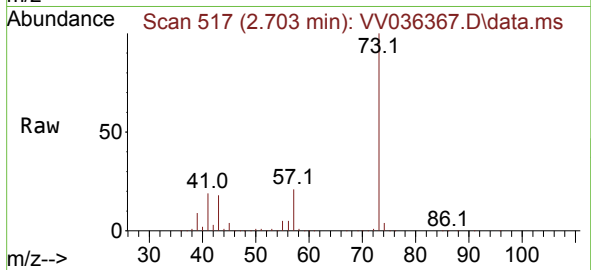




#18
Methyl tert-butyl Ether
Concen: 107.572 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

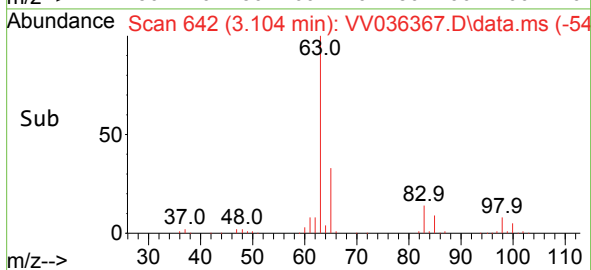
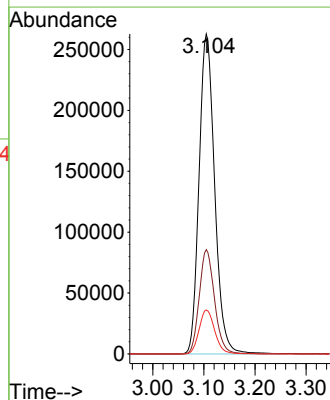
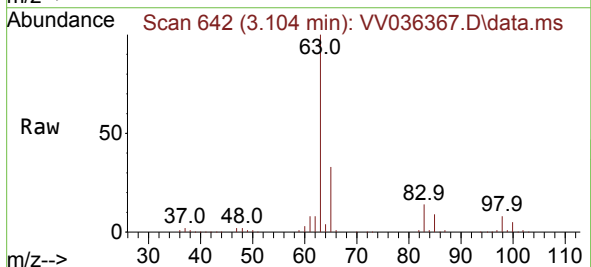
Instrument :
MSVOA_V
ClientSampleId :

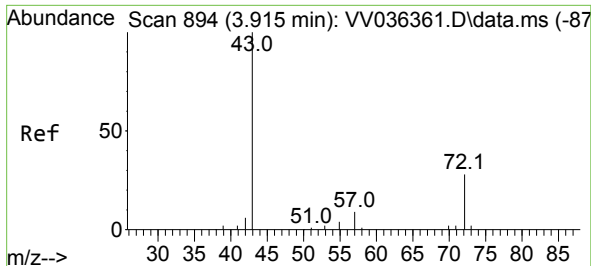
Tgt Ion: 73 Resp: 1163124
Ion Ratio Lower Upper
73 100
43 18.2 14.7 22.1
57 21.2 17.0 25.6



#19
1,1-Dichloroethane
Concen: 67.601 ug/L
RT: 3.104 min Scan# 642
Delta R.T. 0.003 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

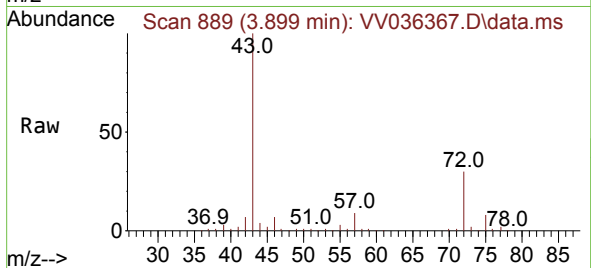
Tgt Ion: 63 Resp: 558293
Ion Ratio Lower Upper
63 100
65 32.6 22.1 41.1
83 13.8 9.7 17.9



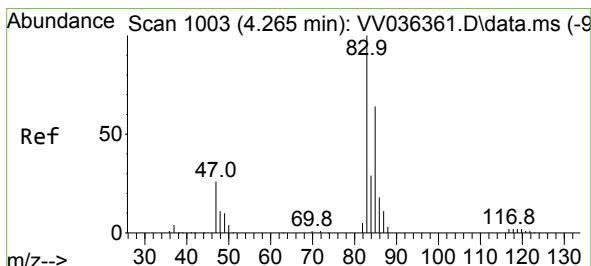
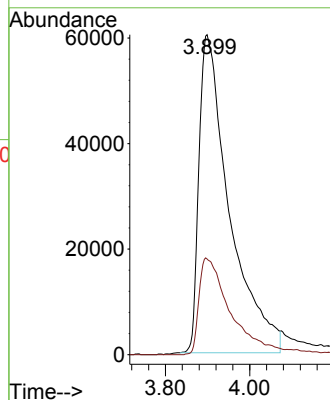
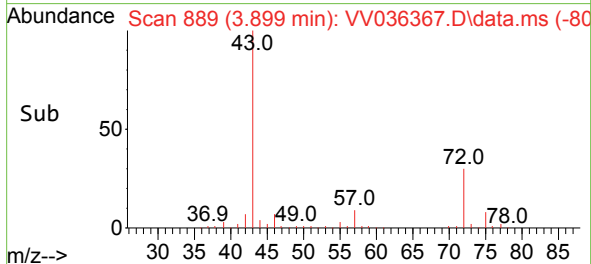


#22
2-Butanone
Concen: 226.217 ug/L
RT: 3.899 min Scan# 81
Delta R.T. -0.016 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

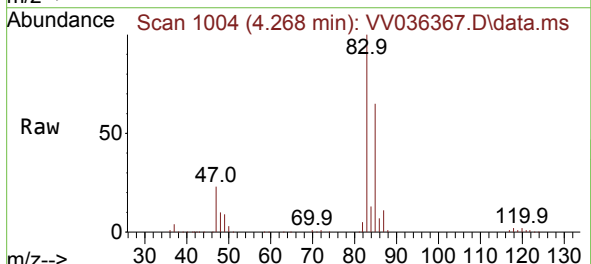
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MSVOA_V
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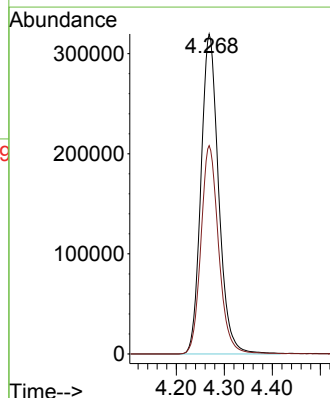
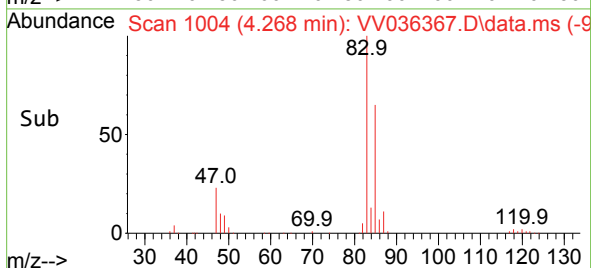
Tgt Ion: 43 Resp: 301680
Ion Ratio Lower Upper
43 100
72 30.0 12.9 38.7

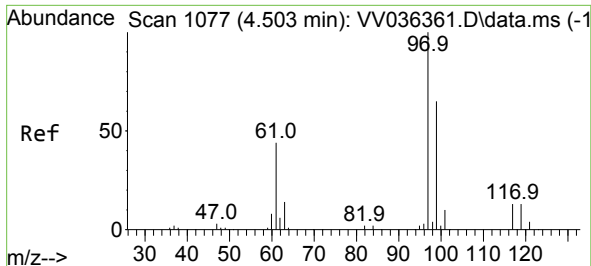


#25
Chloroform
Concen: 92.658 ug/L
RT: 4.268 min Scan# 1004
Delta R.T. 0.003 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58



Tgt Ion: 83 Resp: 816184
Ion Ratio Lower Upper
83 100
85 65.1 45.0 83.6





#30

1,1,1-Trichloroethane

Concen: 0.425 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.013 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Instrument :

MSVOA_V

ClientSampleId :

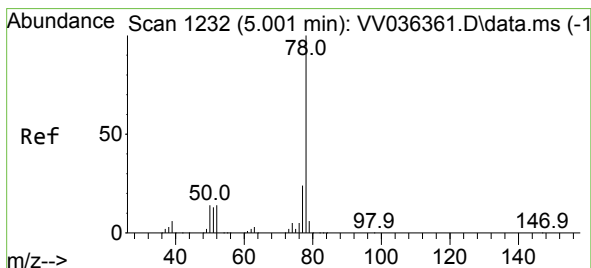
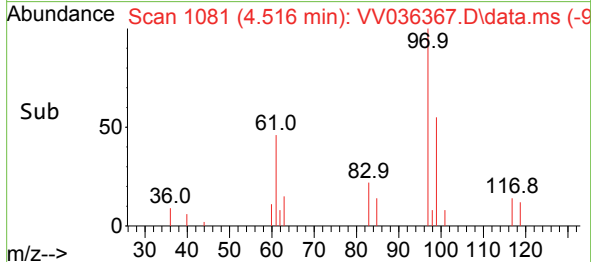
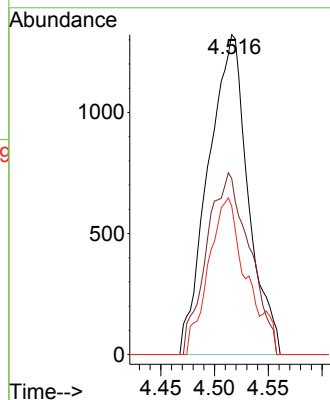
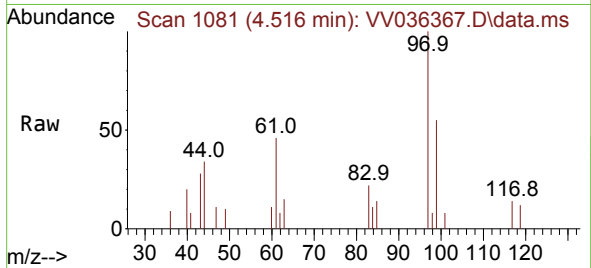
Tgt Ion: 97 Resp: 3409

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

61 28.8 34.8 52.2#



#33

Benzene

Concen: 16.948 ug/L

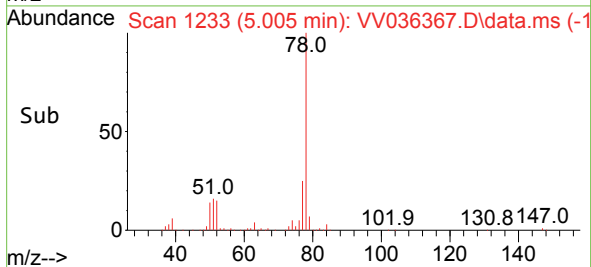
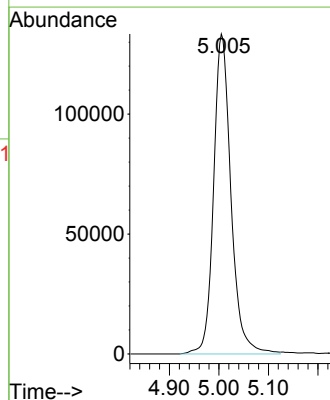
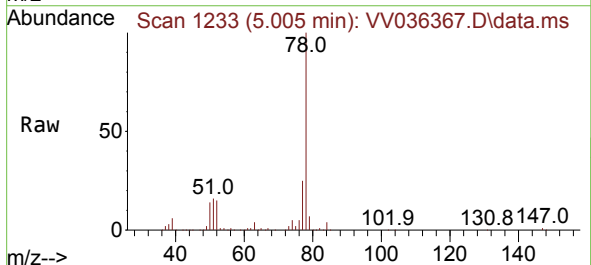
RT: 5.005 min Scan# 1233

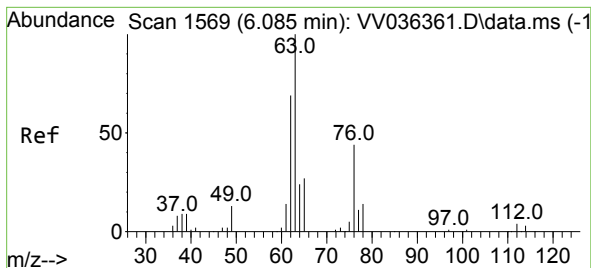
Delta R.T. 0.003 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Tgt Ion: 78 Resp: 324944





#37

1,2-Dichloropropane

Concen: 41.939 ug/L

RT: 6.088 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Instrument :

MSVOA_V

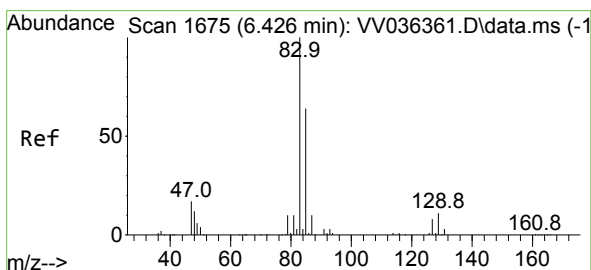
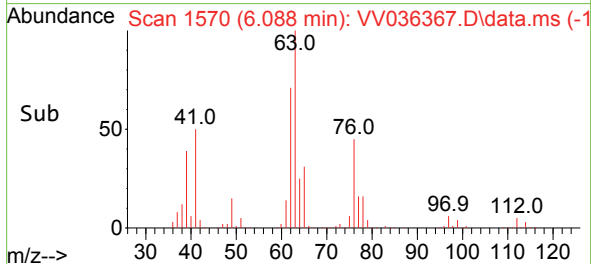
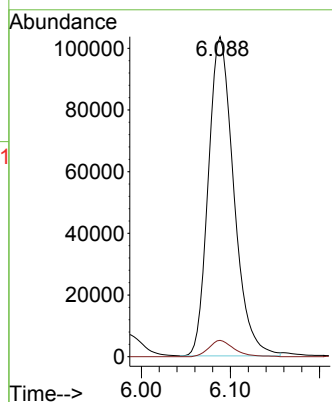
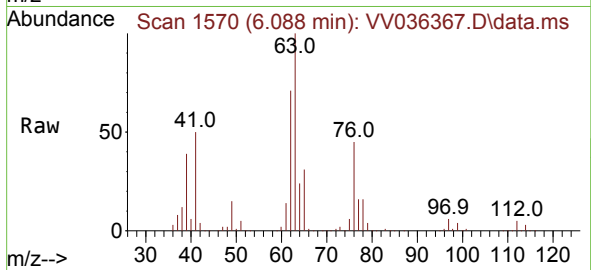
ClientSampleId :

Tgt Ion: 63 Resp: 205354

Ion Ratio Lower Upper

63 100

112 5.1 3.4 5.2



#38

Bromodichloromethane

Concen: 20.478 ug/L

RT: 6.429 min Scan# 1676

Delta R.T. 0.003 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

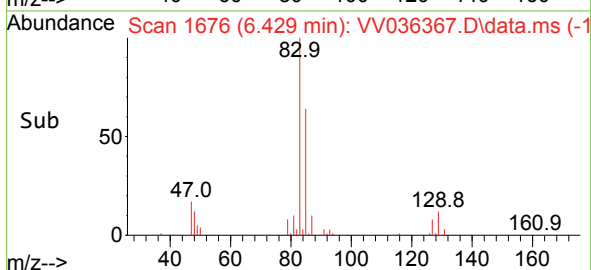
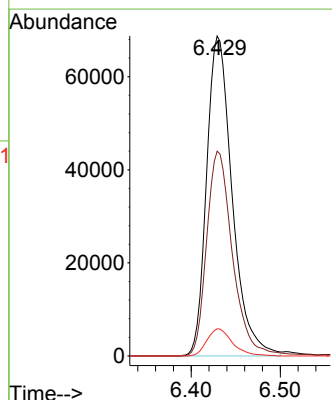
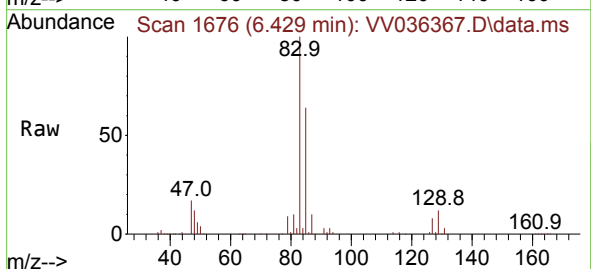
Tgt Ion: 83 Resp: 137139

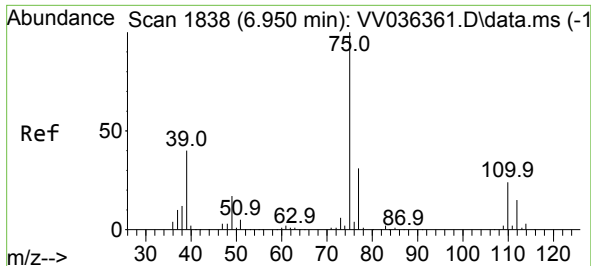
Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.5

127 8.5 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 69.025 ug/L

RT: 6.950 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Instrument :

MSVOA_V

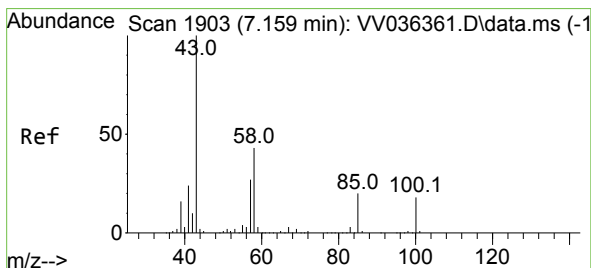
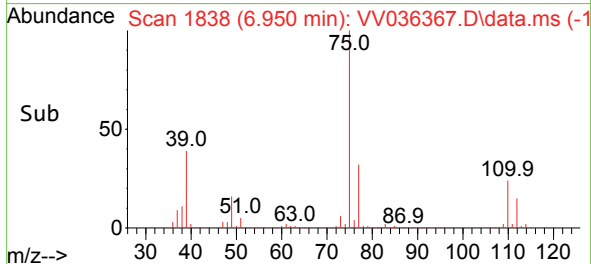
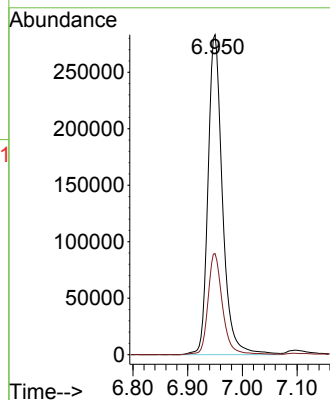
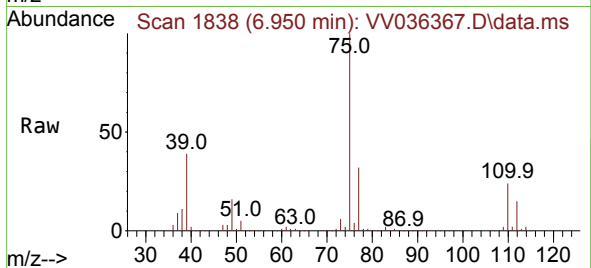
ClientSampleId :

Tgt Ion: 75 Resp: 519721

Ion Ratio Lower Upper

75 100

77 31.6 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 160.504 ug/L

RT: 7.156 min Scan# 1902

Delta R.T. -0.003 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

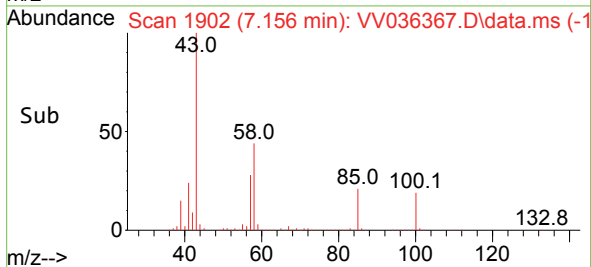
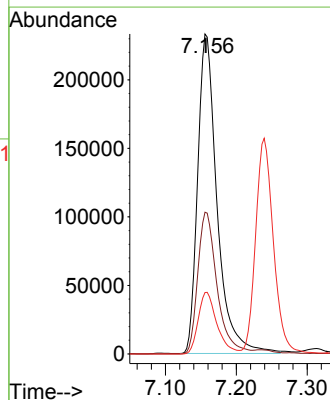
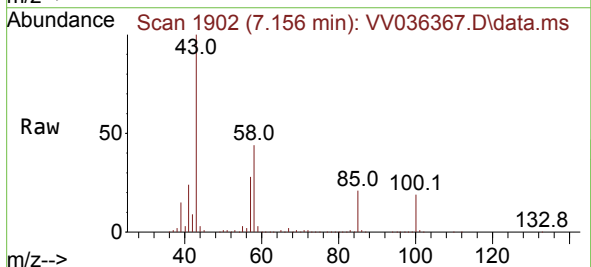
Tgt Ion: 43 Resp: 443235

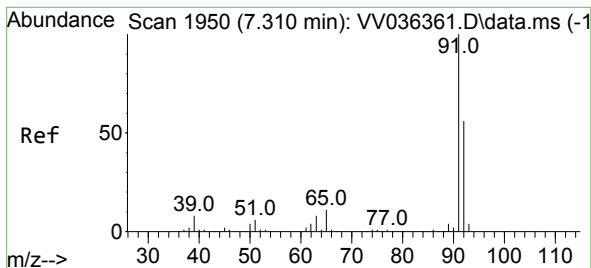
Ion Ratio Lower Upper

43 100

58 44.2 34.8 52.2

100 18.6 14.6 21.8





#42

Toluene

Concen: 41.159 ug/L

RT: 7.310 min Scan# 1950

Delta R.T. 0.000 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Instrument :

MSVOA_V

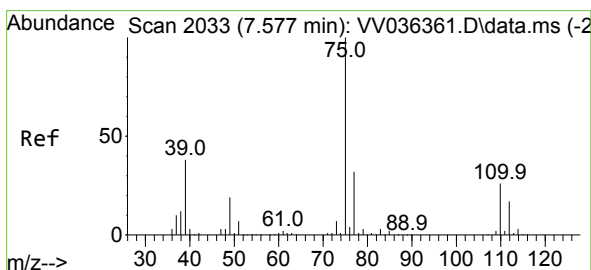
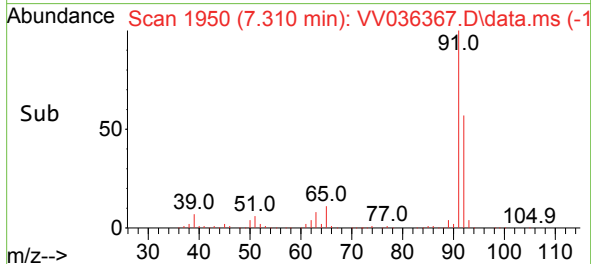
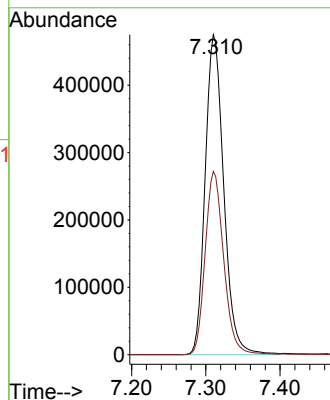
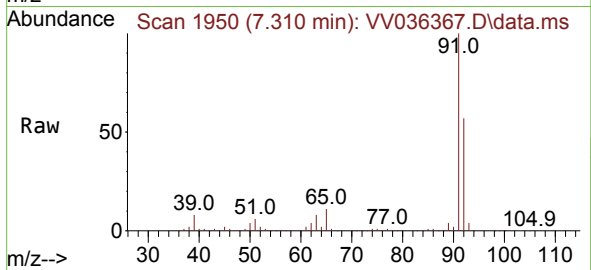
ClientSampleId :

Tgt Ion: 91 Resp: 825109

Ion Ratio Lower Upper

91 100

92 57.2 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 91.353 ug/L

RT: 7.574 min Scan# 2032

Delta R.T. -0.003 min

Lab File: VV036367.D

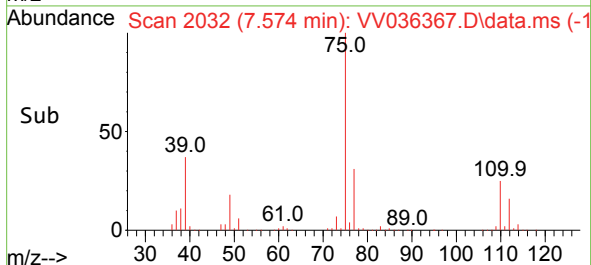
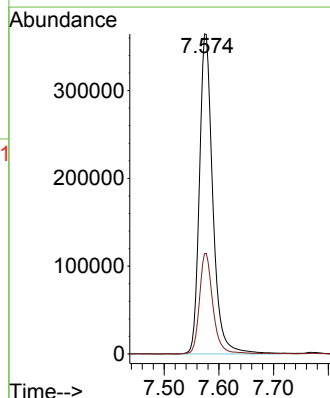
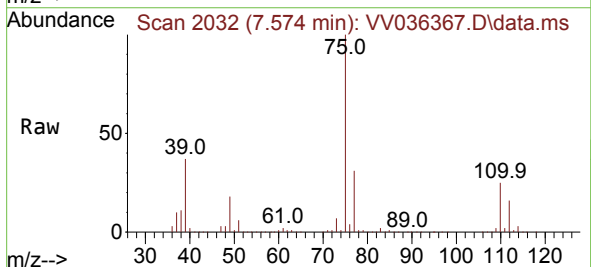
Acq: 01 Jul 2024 11:58

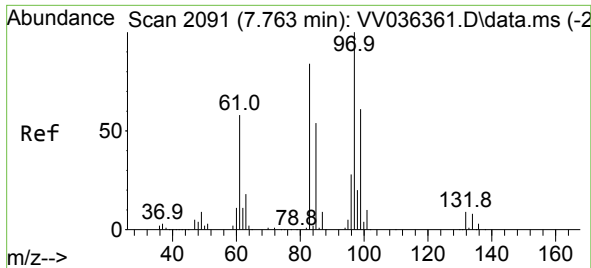
Tgt Ion: 75 Resp: 618661

Ion Ratio Lower Upper

75 100

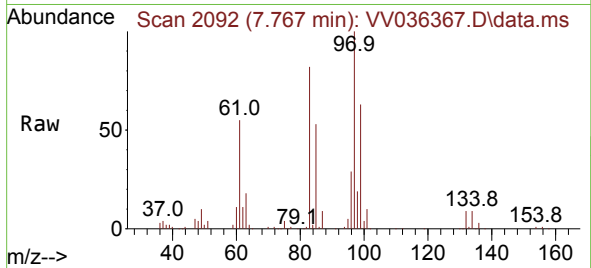
77 31.4 22.5 41.9



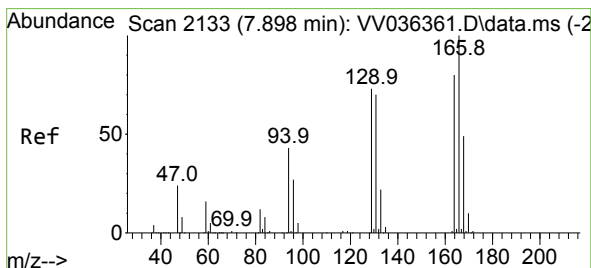
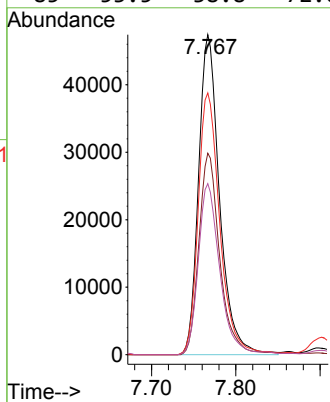
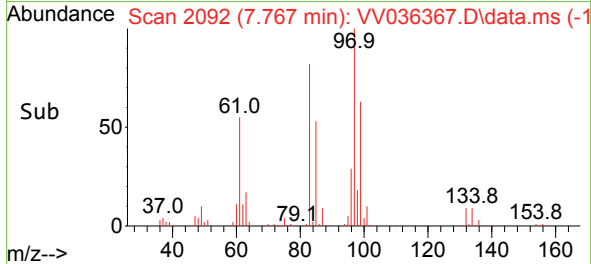


#45
1,1,2-Trichloroethane
Concen: 19.052 ug/L
RT: 7.767 min Scan# 2091
Delta R.T. 0.003 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

Instrument :
MSVOA_V
ClientSampleId :

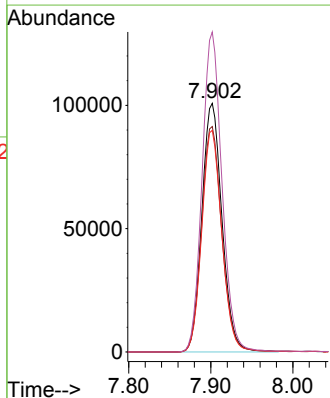
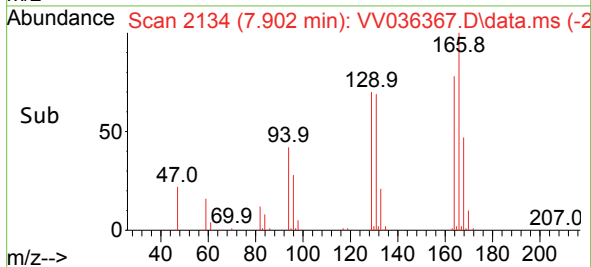
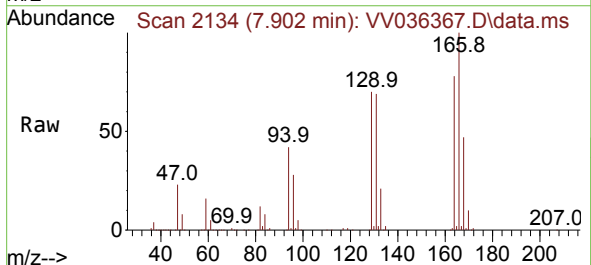


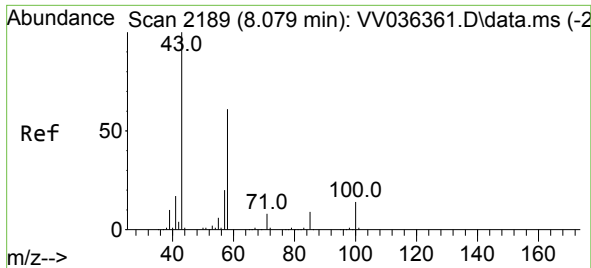
Tgt Ion: 97	Resp: 82455
Ion Ratio	Lower Upper
97 100	
99 63.0	43.8 81.3
83 81.8	60.6 112.6
85 53.5	38.8 72.0



#46
Tetrachloroethene
Concen: 39.199 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.003 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

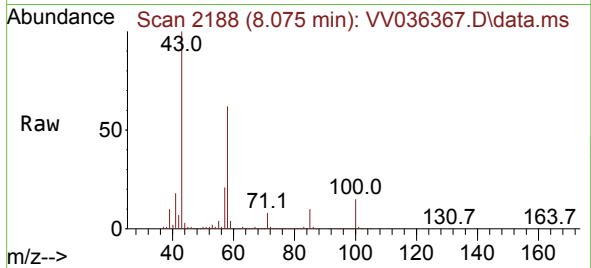
Tgt	Ion:164	Resp:	172359
Ion	Ratio	Lower	Upper
164	100		
129	90.7	65.9	122.5
131	89.1	63.3	117.7
166	128.7	90.3	167.7



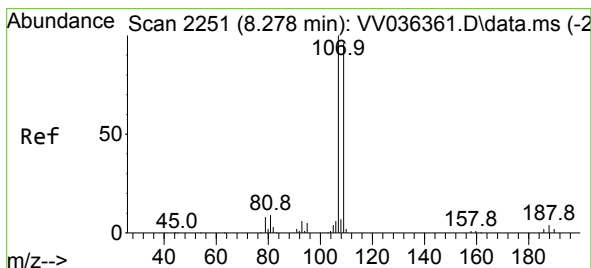
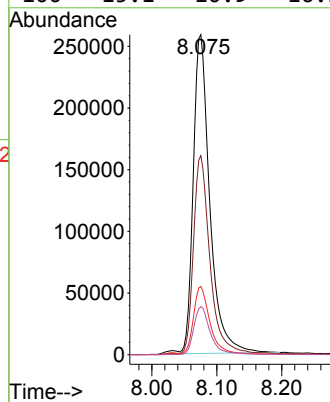
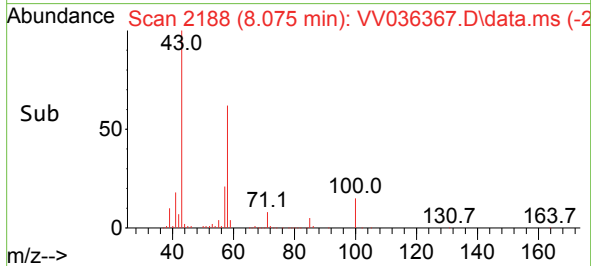


#48
2-Hexanone
Concen: 211.227 ug/L
RT: 8.075 min Scan# 2189
Delta R.T. -0.003 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

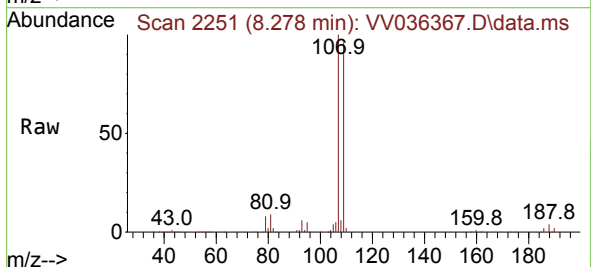
Instrument :
MSVOA_V
ClientSampleId :



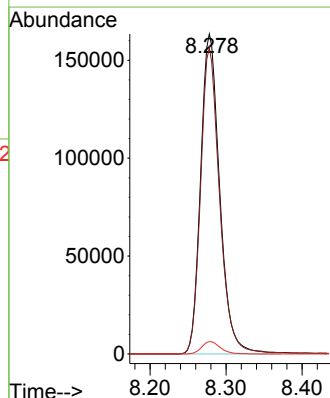
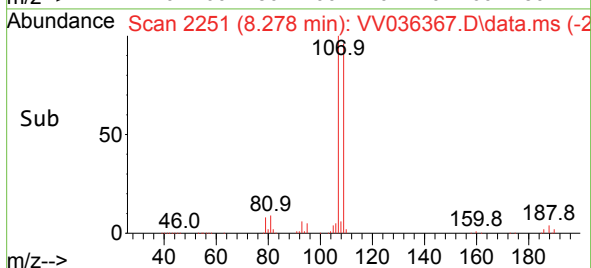
Tgt Ion: 43 Resp: 458815
Ion Ratio Lower Upper
43 100
58 62.3 48.5 72.7
57 20.9 15.8 23.6
100 15.1 10.9 16.3

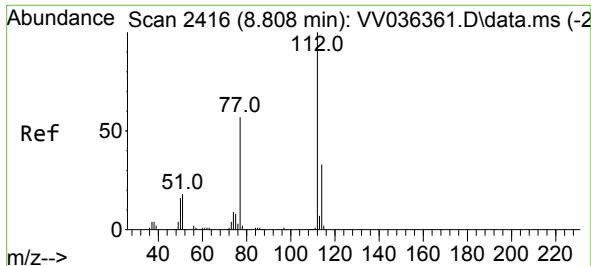


#50
1,2-Dibromoethane
Concen: 67.061 ug/L
RT: 8.278 min Scan# 2251
Delta R.T. 0.000 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58



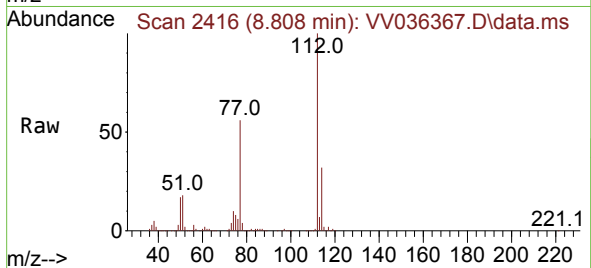
Tgt Ion: 107 Resp: 285926
Ion Ratio Lower Upper
107 100
109 95.7 64.7 120.1
188 3.8 3.0 4.6



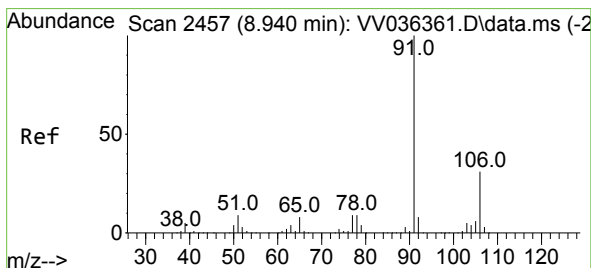
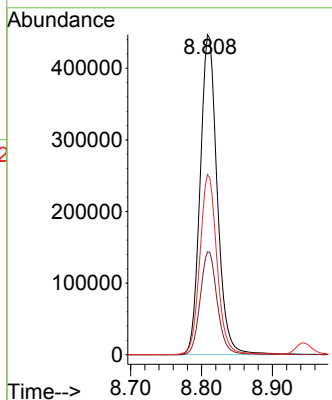
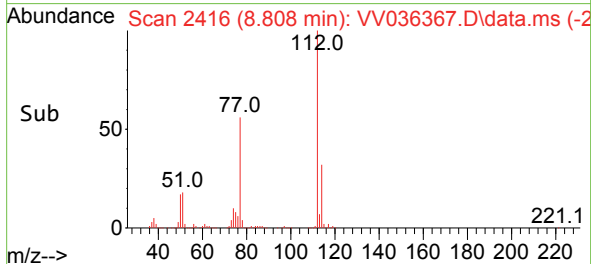


#51
Chlorobenzene
Concen: 54.426 ug/L
RT: 8.808 min Scan# 2416
Delta R.T. 0.000 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

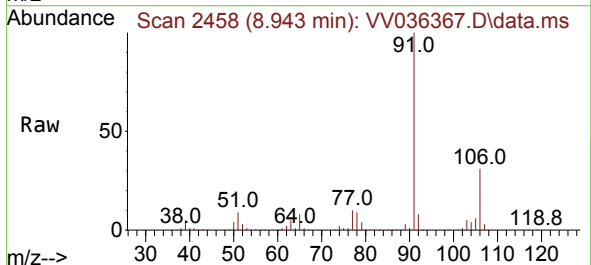
Instrument :
MSVOA_V
ClientSampleId :



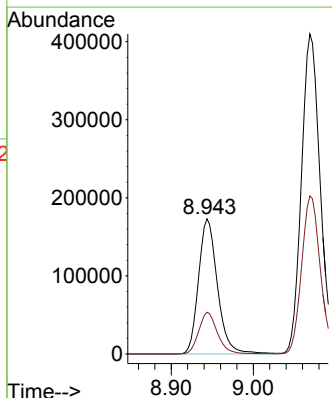
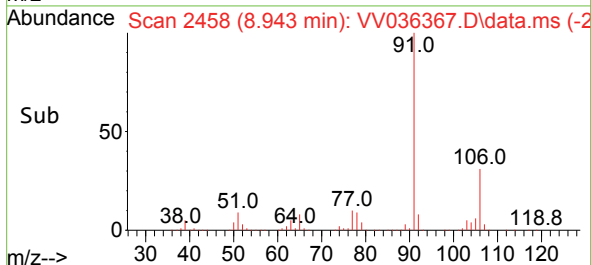
Tgt Ion:112 Resp: 745831
Ion Ratio Lower Upper
112 100
114 32.2 22.8 42.4
77 56.3 46.2 69.2

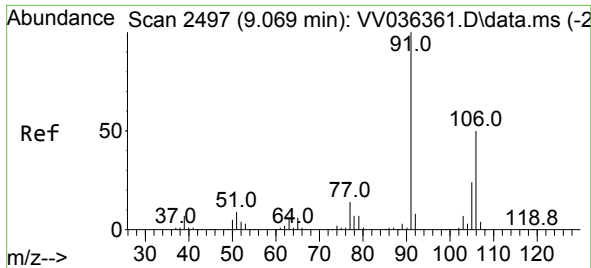


#52
Ethylbenzene
Concen: 12.847 ug/L
RT: 8.943 min Scan# 2458
Delta R.T. 0.003 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58



Tgt Ion: 91 Resp: 277931
Ion Ratio Lower Upper
91 100
106 30.9 21.8 40.4

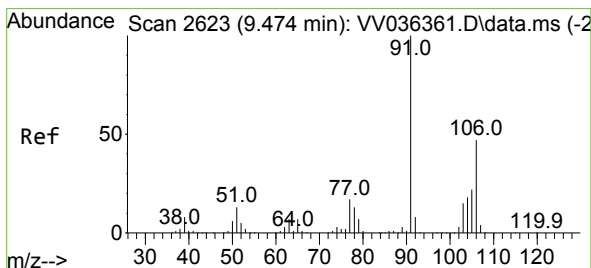
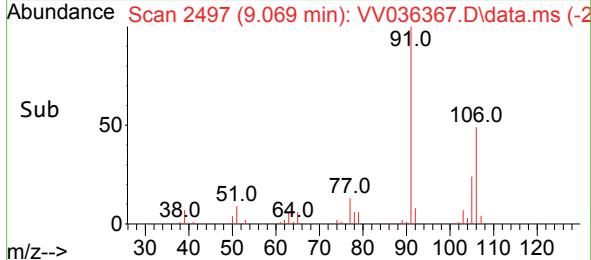
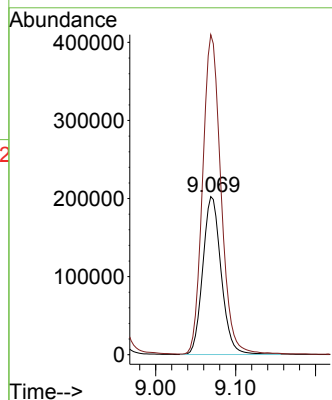
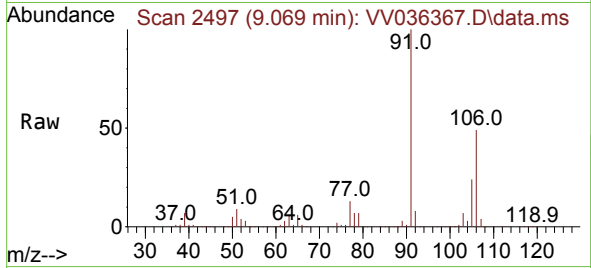




#53
m,p-Xylene
Concen: 40.179 ug/L
RT: 9.069 min Scan# 2497
Delta R.T. 0.000 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

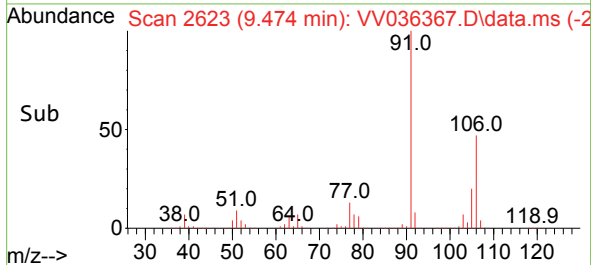
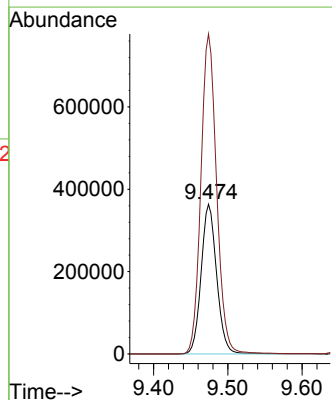
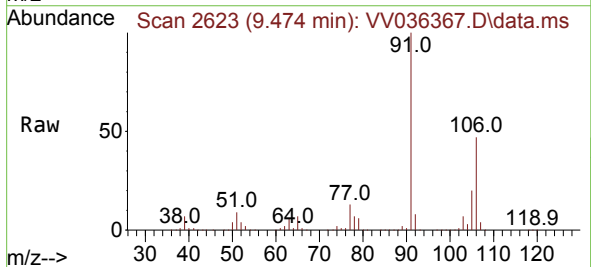
Instrument :
MSVOA_V
ClientSampleId :

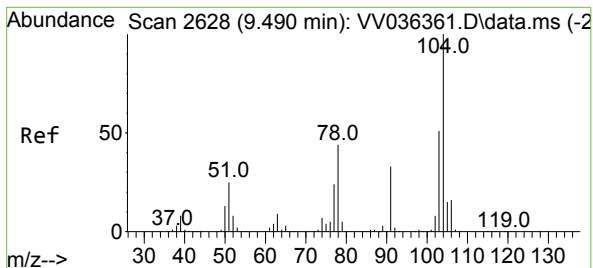
Tgt Ion:106 Resp: 323965
Ion Ratio Lower Upper
106 100
91 202.4 142.2 264.0



#54
o-Xylene
Concen: 69.557 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. 0.000 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

Tgt Ion:106 Resp: 527405
Ion Ratio Lower Upper
106 100
91 213.8 152.7 283.7





#55

Styrene

Concen: 2.447 ug/L

RT: 9.474 min Scan# 2623

Delta R.T. -0.016 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Instrument :

MSVOA_V

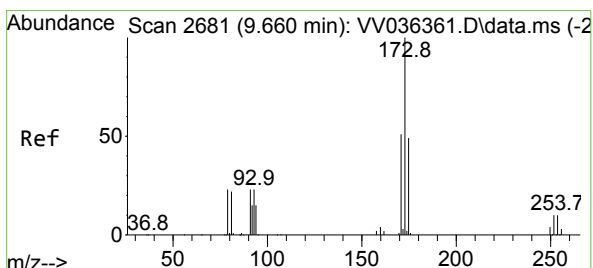
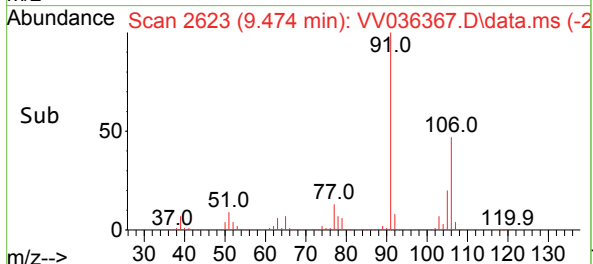
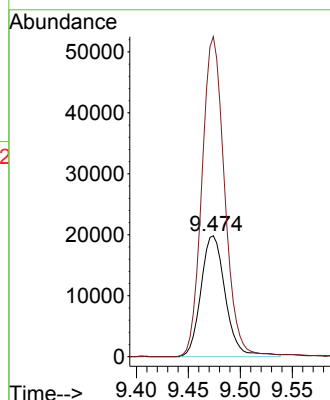
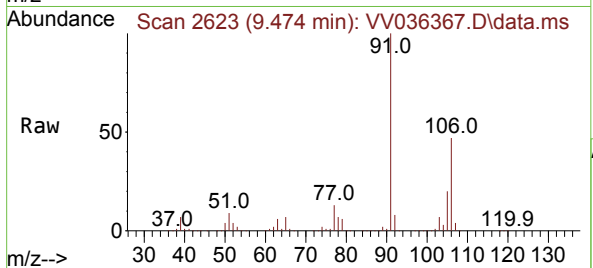
ClientSampleId :

Tgt Ion:104 Resp: 32512

Ion Ratio Lower Upper

104 100

78 264.6 30.2 56.2#



#59

Bromoform

Concen: 100.449 ug/L

RT: 9.660 min Scan# 2681

Delta R.T. 0.000 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

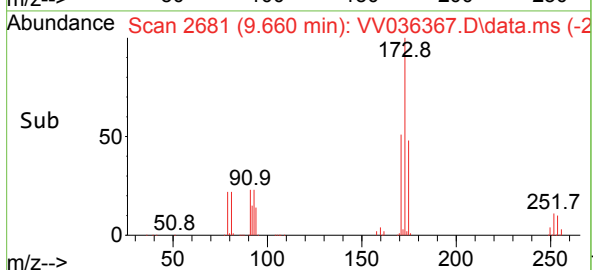
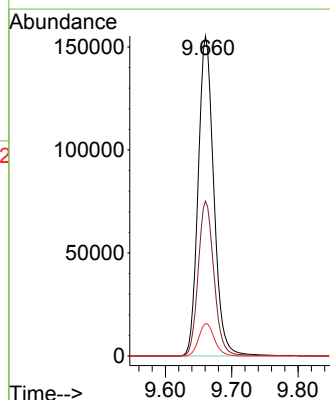
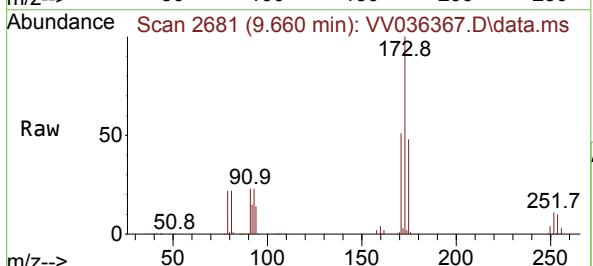
Tgt Ion:173 Resp: 254127

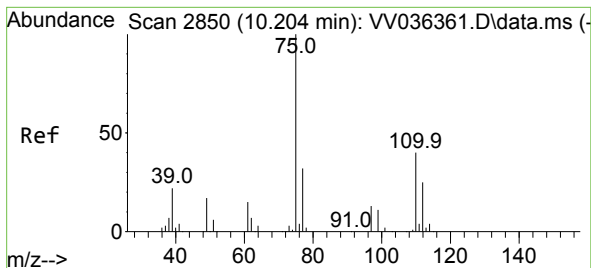
Ion Ratio Lower Upper

173 100

175 48.8 38.9 58.3

254 10.2 7.2 10.8





#61

1,2,3-Trichloropropane

Concen: 68.219 ug/L

RT: 10.204 min Scan# 2850

Delta R.T. 0.000 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Instrument :

MSVOA_V

ClientSampleId :

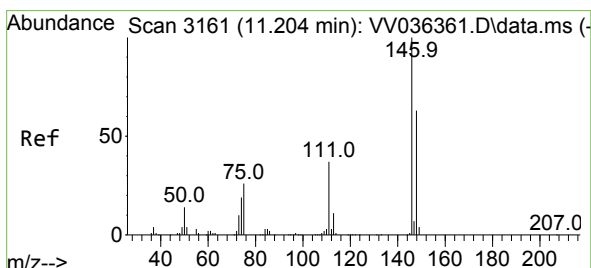
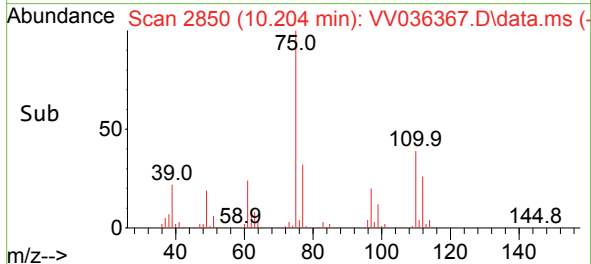
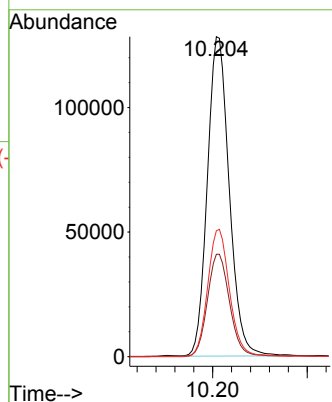
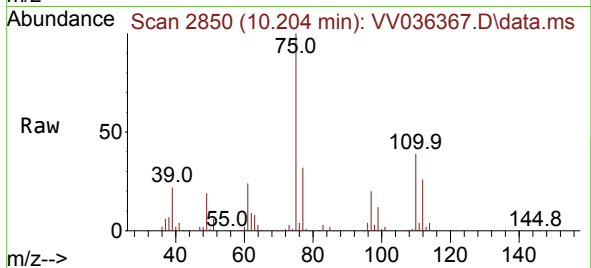
Tgt Ion: 75 Resp: 205753

Ion Ratio Lower Upper

75 100

77 32.0 25.2 37.8

110 40.0 31.7 47.5



#65

1,4-Dichlorobenzene

Concen: 38.360 ug/L

RT: 11.204 min Scan# 3161

Delta R.T. 0.000 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

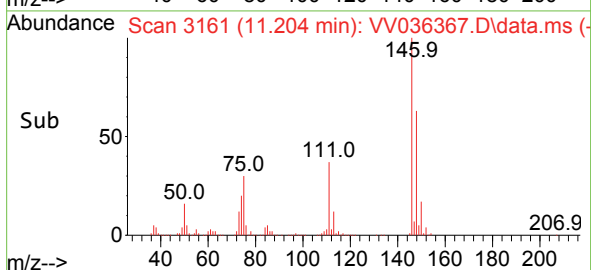
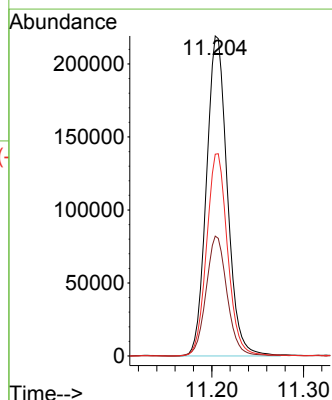
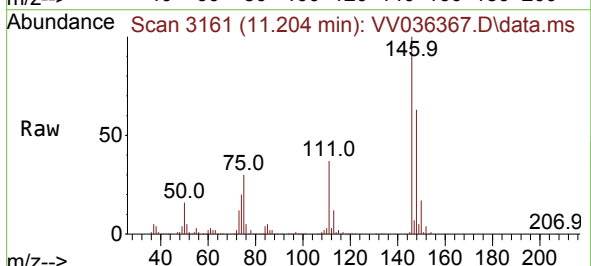
Tgt Ion: 146 Resp: 346152

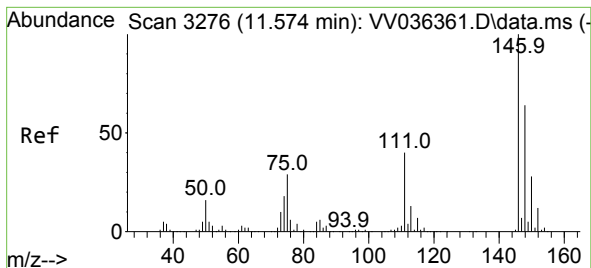
Ion Ratio Lower Upper

146 100

111 37.5 27.5 51.1

148 63.0 44.0 81.8





#67

1,2-Dichlorobenzene

Concen: 86.222 ug/L

RT: 11.574 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

Instrument :

MSVOA_V

ClientSampleId :

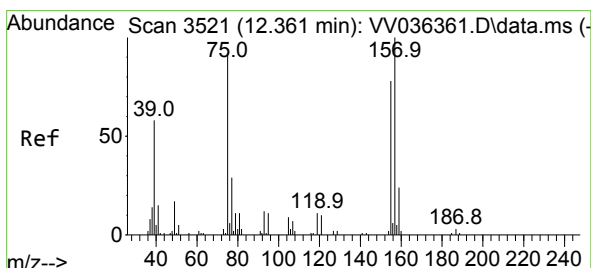
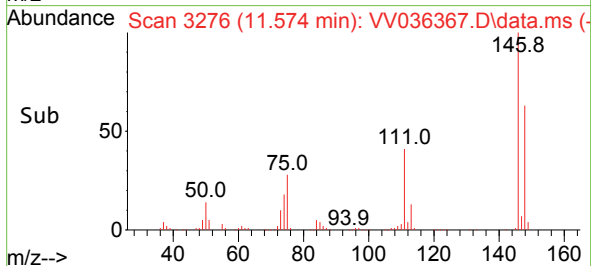
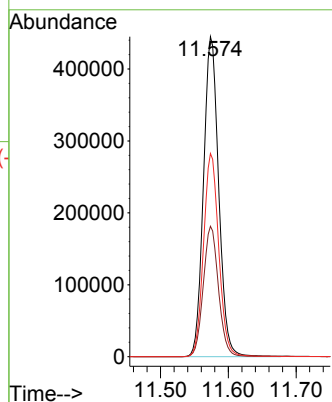
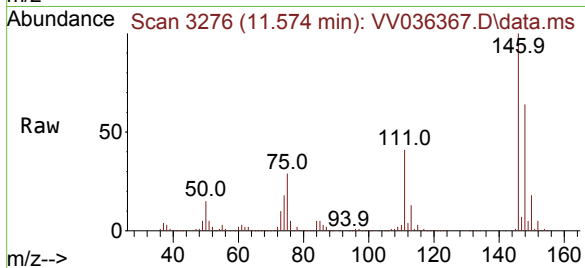
Tgt Ion:146 Resp: 692951

Ion Ratio Lower Upper

146 100

111 40.8 33.3 49.9

148 63.5 51.1 76.7



#68

1,2-Dibromo-3-chloropropane

Concen: 130.316 ug/L

RT: 12.358 min Scan# 3520

Delta R.T. -0.003 min

Lab File: VV036367.D

Acq: 01 Jul 2024 11:58

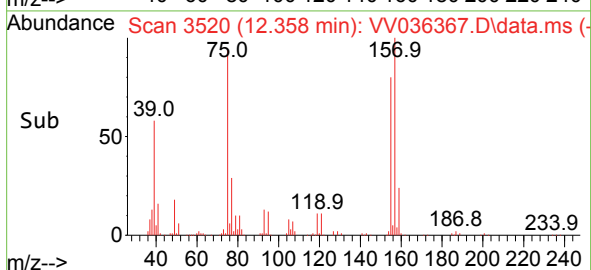
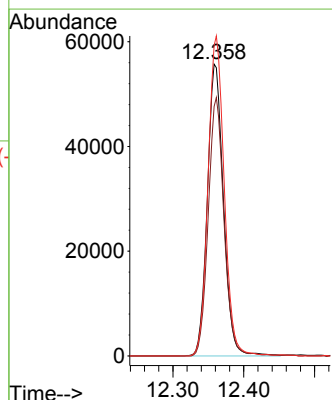
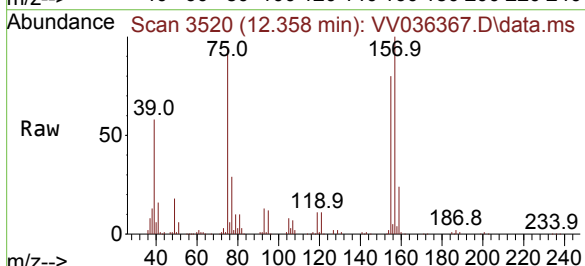
Tgt Ion: 75 Resp: 88180

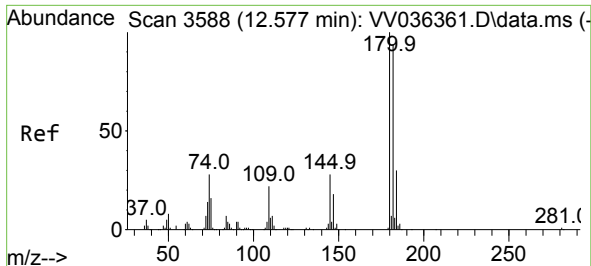
Ion Ratio Lower Upper

75 100

155 85.5 68.3 102.5

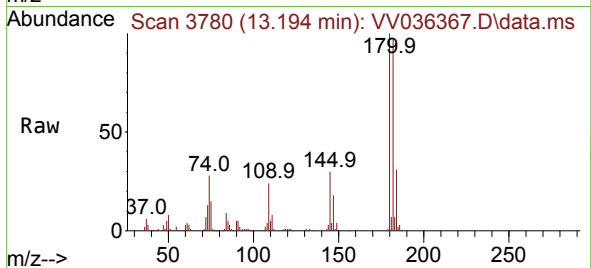
157 106.4 95.7 143.5



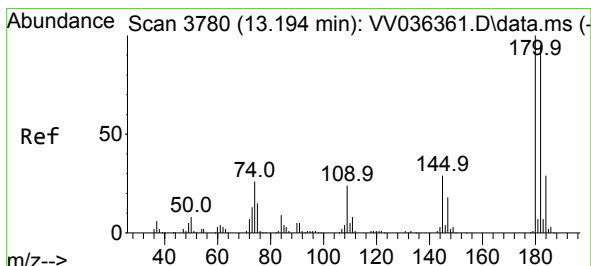
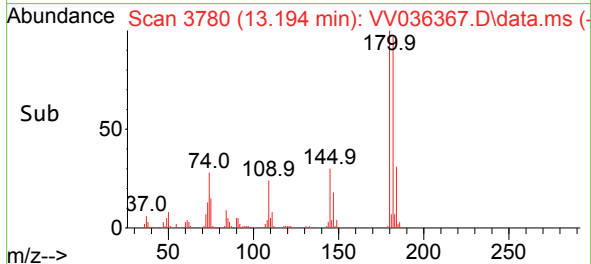
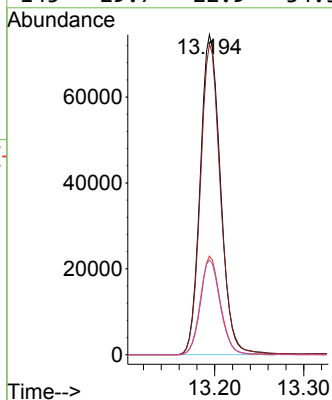


#69
 1,3,5-Trichlorobenzene
 Concen: 18.606 ug/L
 RT: 13.194 min Scan# 31
 Delta R.T. 0.617 min
 Lab File: VV036367.D
 Acq: 01 Jul 2024 11:58

Instrument :
 MSVOA_V
 ClientSampleId :

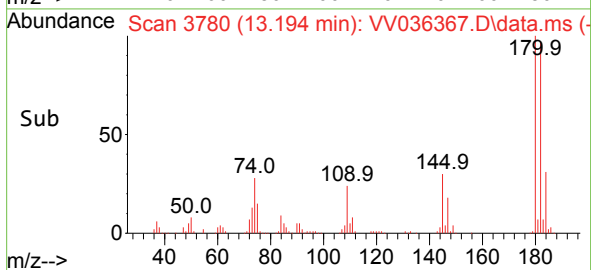
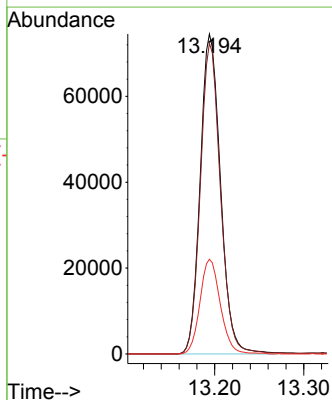
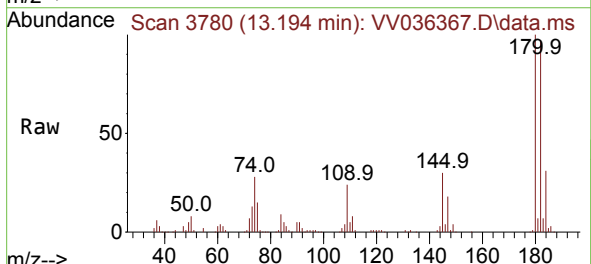


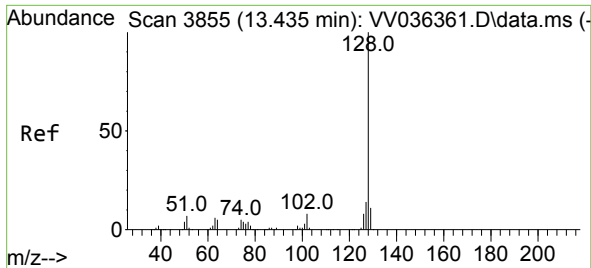
Tgt Ion:180 Resp: 117943
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.2 114.4
 184 29.9 23.3 34.9
 145 29.7 22.9 34.3



#70
 1,2,4-trichlorobenzene
 Concen: 23.332 ug/L
 RT: 13.194 min Scan# 3780
 Delta R.T. 0.000 min
 Lab File: VV036367.D
 Acq: 01 Jul 2024 11:58

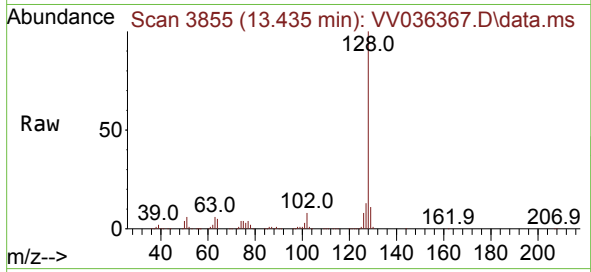
Tgt Ion:180 Resp: 117943
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.1 114.1
 145 29.7 23.8 35.8





#71
Naphthalene
Concen: 90.889 ug/L
RT: 13.435 min Scan# 3855
Delta R.T. 0.000 min
Lab File: VV036367.D
Acq: 01 Jul 2024 11:58

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 819178
Ion Ratio Lower Upper
128 100
127 13.6 10.8 16.2
129 10.8 8.6 13.0

