

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW071824\
 Data File : VW036602.D
 Acq On : 18 Jul 2024 15:13
 Operator : SY/MD
 Sample : P3298-06
 Misc : 5.82g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 19 04:40:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM071124SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 19 04:31:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.564	114	686070	25.000	ug/L	0.04
28) Chlorobenzene-d5	8.882	117	596970	25.000	ug/L	0.10
58) 1,4-Dichlorobenzene-d4	11.201	152	327475	25.000	ug/L	0.02
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	204250	20.780	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.120%
7) Chloroethane-d5	1.532	69	136086	15.836	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	63.360%
11) 1,1-Dichloroethene-d2	2.060	65	75713	15.000	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	60.000%
21) 2-Butanone-d5	3.854	46	74372	44.208	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.420%
24) Chloroform-d	4.262	84	283983	14.220	ug/L	0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	=	56.880%
26) 1,2-Dichloroethane-d4	4.960	65	141573	14.293	ug/L	0.03
Spiked Amount	25.000	Range	70 - 130	Recovery	=	57.160%#
32) Benzene-d6	4.982	84	533255	17.905	ug/L	0.03
Spiked Amount	25.000	Range	20 - 135	Recovery	=	71.640%
36) 1,2-Dichloropropane-d6	6.021	67	165046	18.595	ug/L	0.04
Spiked Amount	25.000	Range	70 - 120	Recovery	=	74.400%
41) Toluene-d8	7.217	98	7220	0.263	ug/L	-0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	=	1.040%#
43) trans-1,3-Dichloroprop...	7.593	79	30137	8.167	ug/L	0.04
Spiked Amount	25.000	Range	30 - 135	Recovery	=	32.680%
47) 2-Hexanone-d5	8.043	63	200	0.203	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.400%#
56) 1,1,2,2-Tetrachloroeth...	10.178	84	123803	16.562	ug/L	0.03
Spiked Amount	25.000	Range	45 - 120	Recovery	=	66.240%
66) 1,2-Dichlorobenzene-d4	11.570	152	183056	16.472	ug/L	0.01
Spiked Amount	25.000	Range	75 - 120	Recovery	=	65.880%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.278	62	4415602	449.728	ug/L	98
12) 1,1-Dichloroethene	2.072	96	119064	11.748	ug/L	83
14) Carbon disulfide	2.246	76	47604	2.092	ug/L	99
15) Methyl Acetate	2.384	43	1075	0.335	ug/L #	1
16) Methylene chloride	2.449	84	47240	3.349	ug/L	97
17) trans-1,2-Dichloroethene	2.703	96	151885	16.491	ug/L	99
19) 1,1-Dichloroethane	3.124	63	27589	1.655	ug/L	96
22) 2-Butanone	3.908	43	3018	1.511	ug/L #	70
30) 1,1,1-Trichloroethane	4.532	97	29747	2.144	ug/L #	56
35) Methylcyclohexane	5.844	83	444389	41.420	ug/L #	1
42) Toluene	7.448	91	9911622	316.630	ug/L	99
45) 1,1,2-Trichloroethane	7.735	97	16072	2.188	ug/L #	56
46) Tetrachloroethene	7.915	164	57072057	7508.419	ug/L	88
49) Dibromochloromethane	8.416	129	2397499	269.867	ug/L #	11
52) Ethylbenzene	9.021	91	600286	17.877	ug/L	98
53) m,p-Xylene	9.136	106	1548960	119.813	ug/L	96
54) o-Xylene	9.525	106	550741	44.744	ug/L	94
55) Styrene	9.525	104	27609	1.254	ug/L #	1
60) Isopropylbenzene	9.905	105	71326	2.180	ug/L	99

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM071124SMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 19 04:31:33 2024
Response via : Initial Calibration

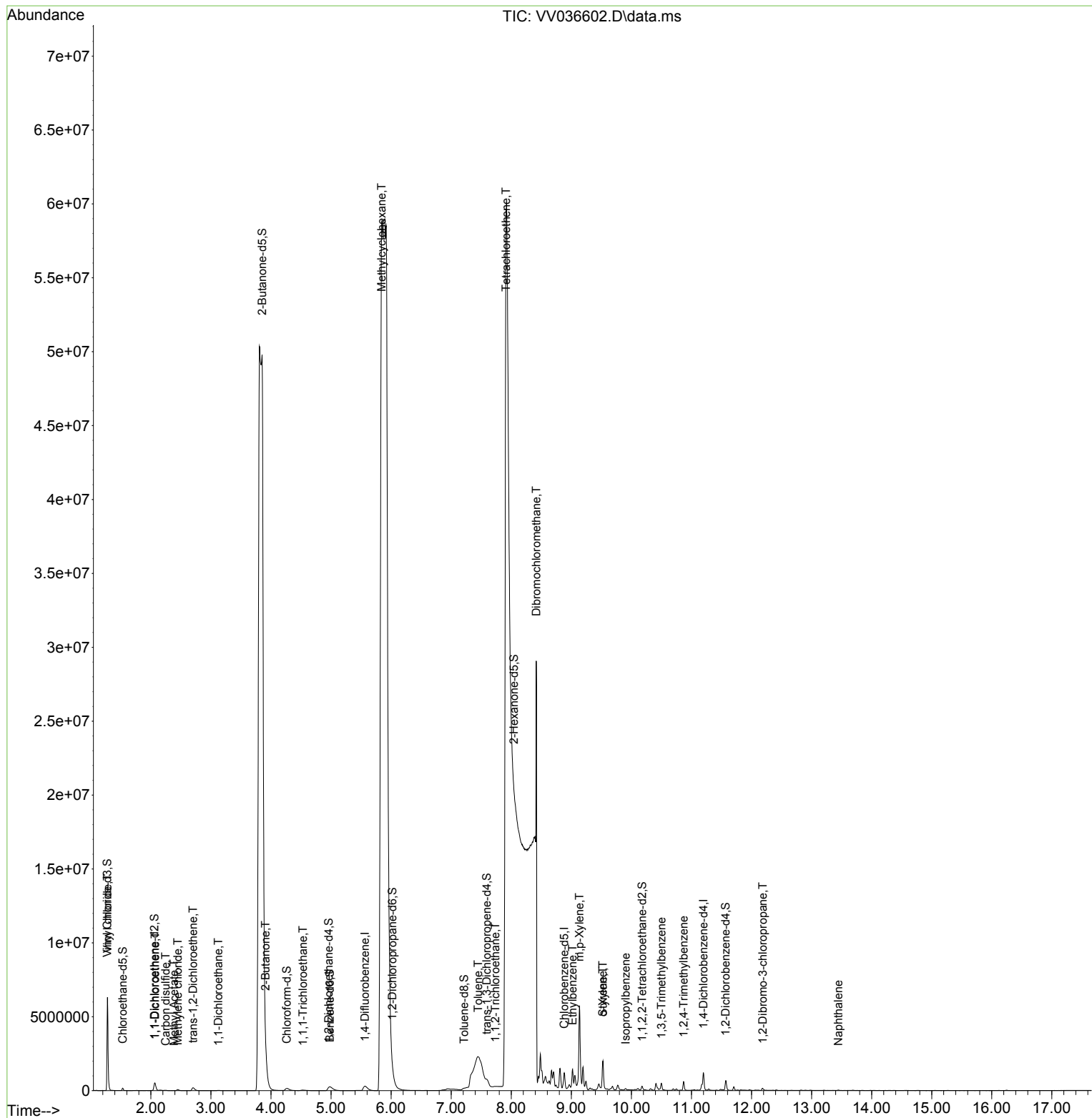
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.500	105	261794	11.174	ug/L	98
63) 1,2,4-Trimethylbenzene	10.869	105	322713	12.659	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.188	75	1052	0.835	ug/L #	12
71) Naphthalene	13.445	128	28011	1.566	ug/L	97

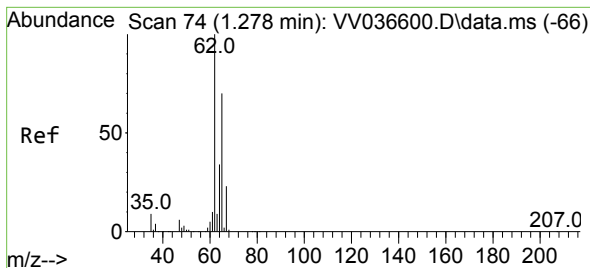
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 449.728 ug/L

RT: 1.278 min Scan# 74

Delta R.T. -0.000 min

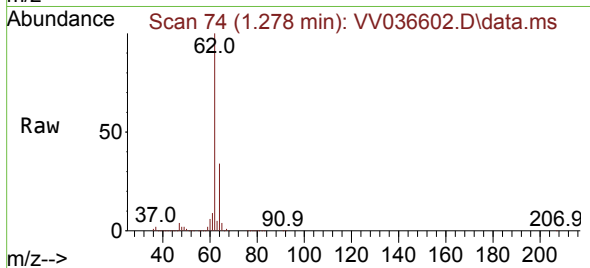
Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Instrument :

MSVOA_V

ClientSampleId :

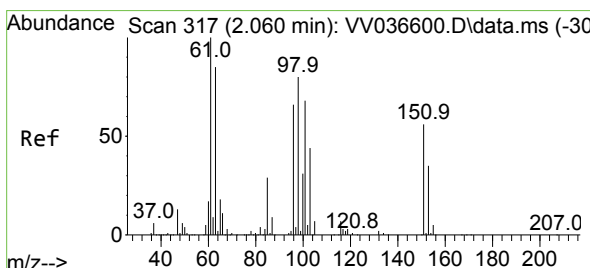
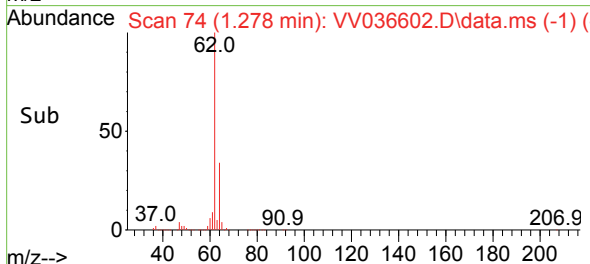
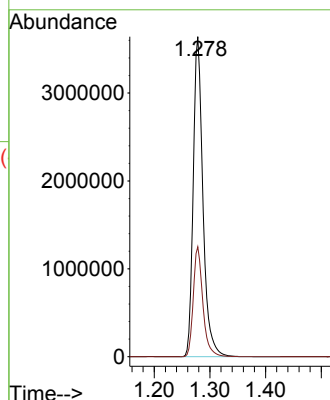


Tgt Ion: 62 Resp: 4415602

Ion Ratio Lower Upper

62 100

64 34.3 23.4 43.4



#12

1,1-Dichloroethene

Concen: 11.748 ug/L

RT: 2.072 min Scan# 321

Delta R.T. 0.013 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

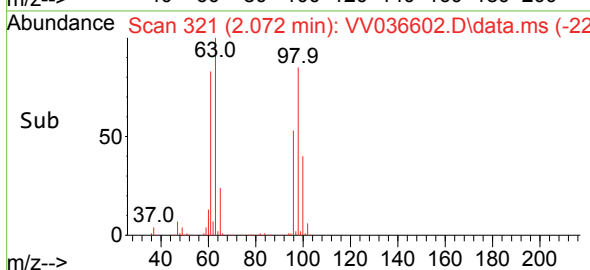
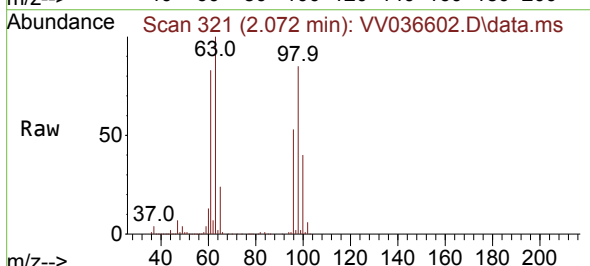
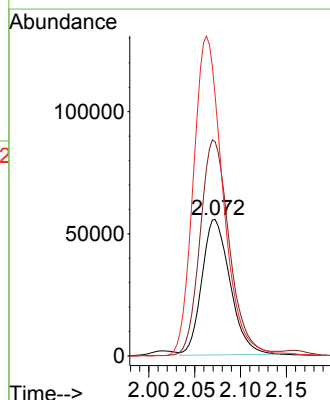
Tgt Ion: 96 Resp: 119064

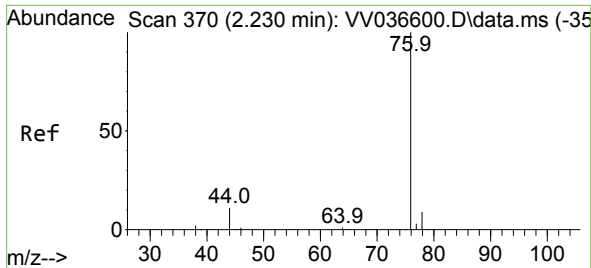
Ion Ratio Lower Upper

96 100

61 157.1 110.8 205.8

63 190.1 103.9 192.9





#14

Carbon disulfide

Concen: 2.092 ug/L

RT: 2.246 min Scan# 31

Delta R.T. 0.016 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Instrument :

MSVOA_V

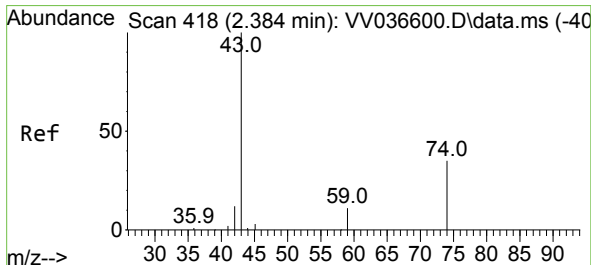
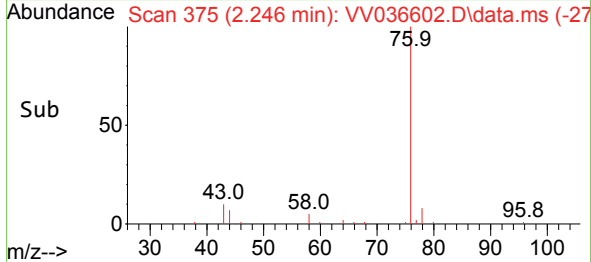
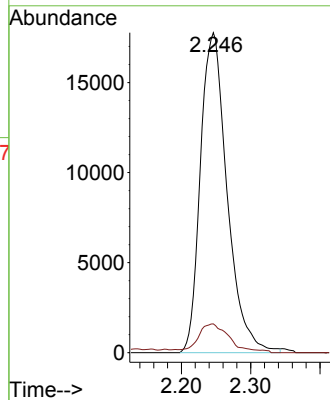
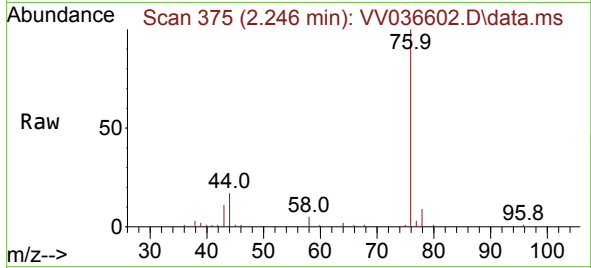
ClientSampleId :

Tgt Ion: 76 Resp: 47604

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2



#15

Methyl Acetate

Concen: 0.335 ug/L

RT: 2.384 min Scan# 418

Delta R.T. -0.000 min

Lab File: VV036602.D

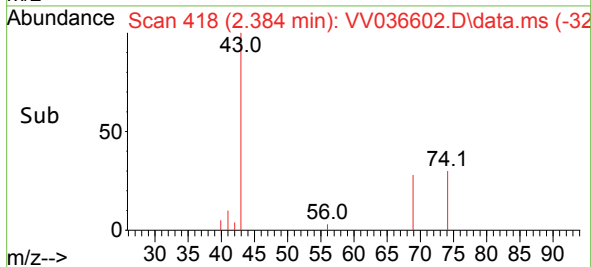
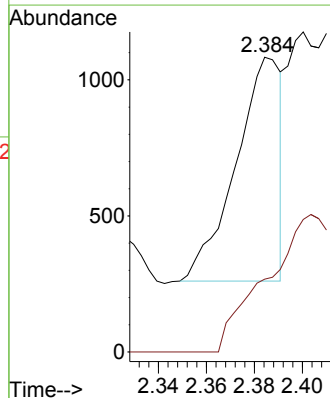
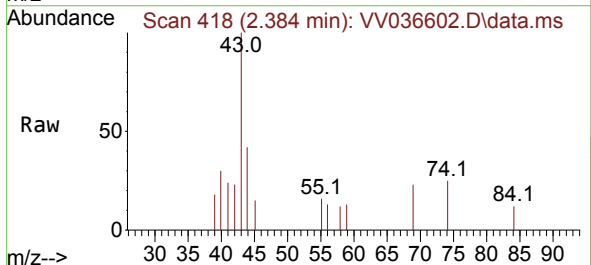
Acq: 18 Jul 2024 15:13

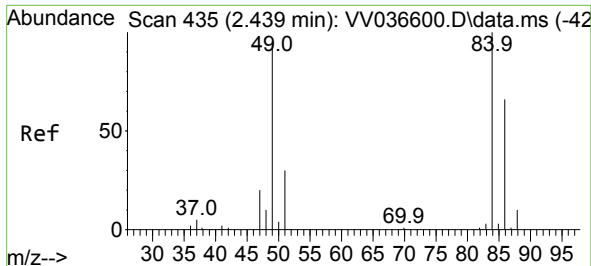
Tgt Ion: 43 Resp: 1075

Ion Ratio Lower Upper

43 100

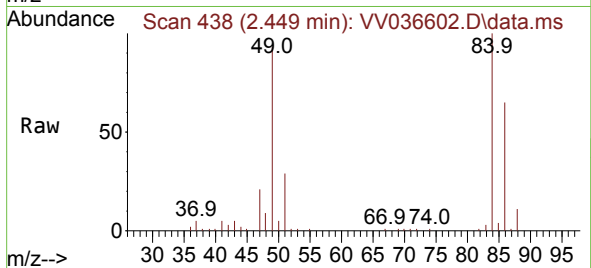
74 112.9 26.3 39.5#



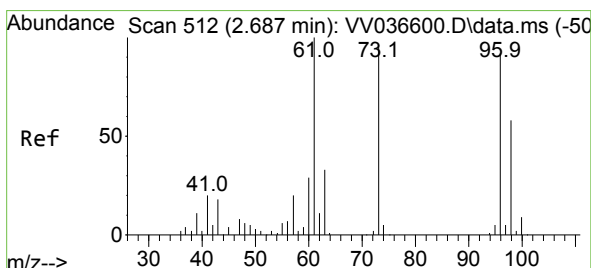
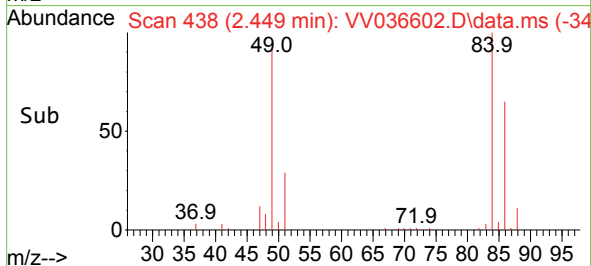
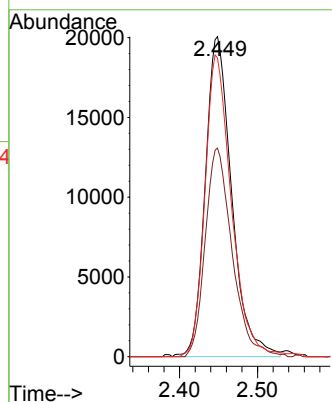


#16
Methylene chloride
Concen: 3.349 ug/L
RT: 2.449 min Scan# 41
Delta R.T. 0.010 min
Lab File: VV036602.D
Acq: 18 Jul 2024 15:13

Instrument :
MSVOA_V
ClientSampleId :

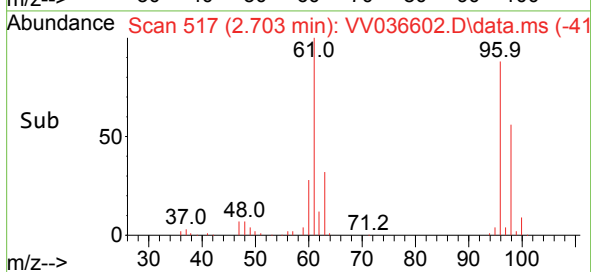
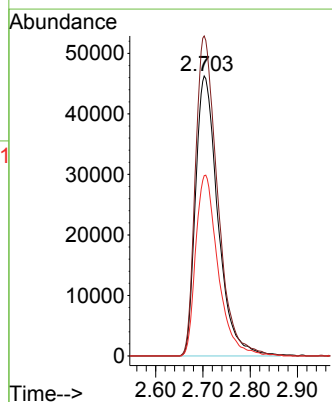
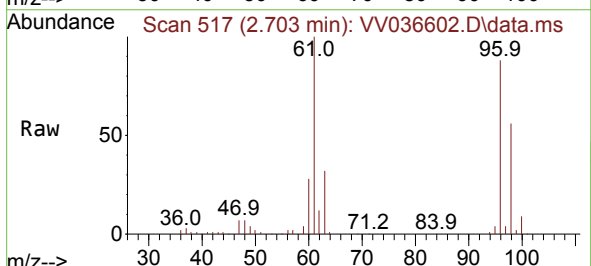


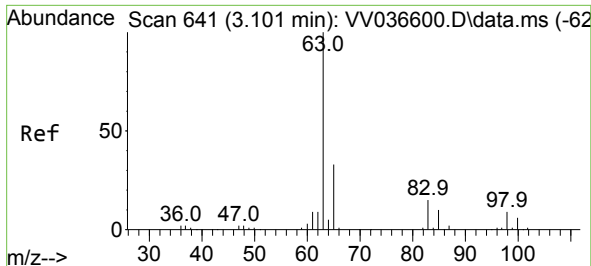
Tgt Ion: 84 Resp: 47240
Ion Ratio Lower Upper
84 100
86 65.2 46.3 86.1
49 93.3 68.1 126.5



#17
trans-1,2-Dichloroethene
Concen: 16.491 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.016 min
Lab File: VV036602.D
Acq: 18 Jul 2024 15:13

Tgt Ion: 96 Resp: 151885
Ion Ratio Lower Upper
96 100
61 114.3 80.7 149.9
98 64.4 44.6 82.8





#19

1,1-Dichloroethane

Concen: 1.655 ug/L

RT: 3.124 min Scan# 641

Delta R.T. 0.022 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Instrument :

MSVOA_V

ClientSampleId :

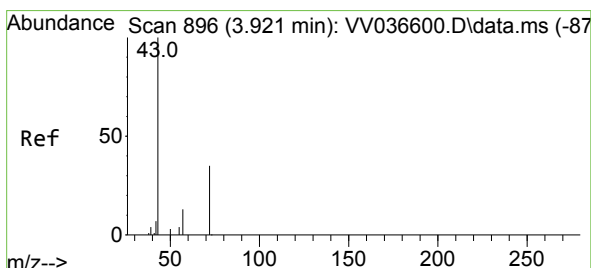
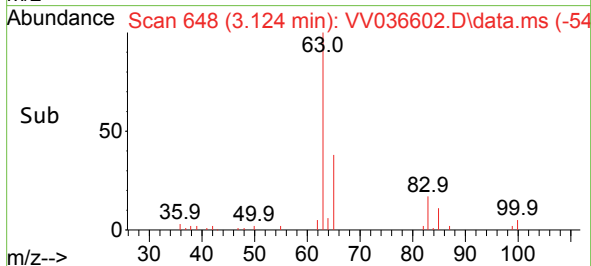
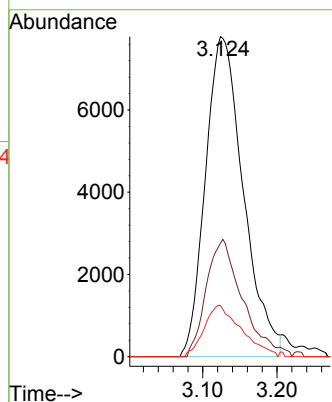
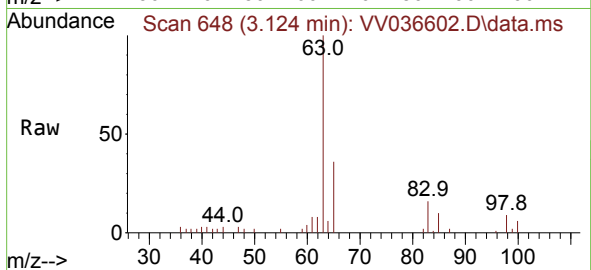
Tgt Ion: 63 Resp: 27589

Ion Ratio Lower Upper

63 100

65 35.5 22.7 42.1

83 16.0 10.9 20.2



#22

2-Butanone

Concen: 1.511 ug/L

RT: 3.908 min Scan# 892

Delta R.T. -0.013 min

Lab File: VV036602.D

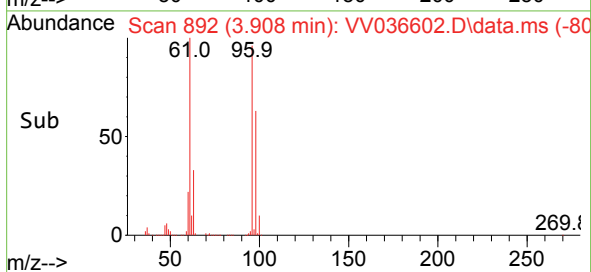
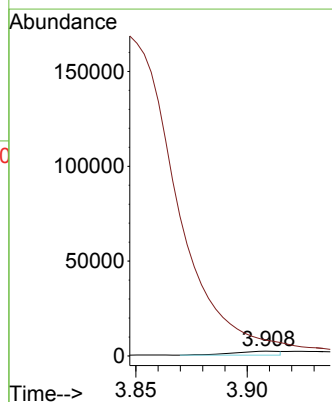
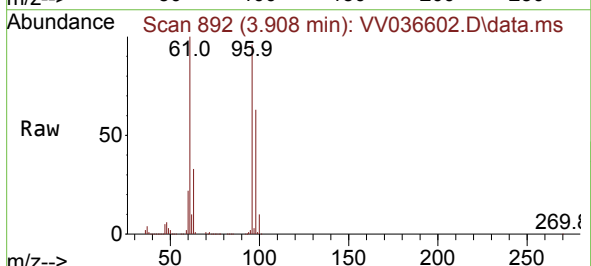
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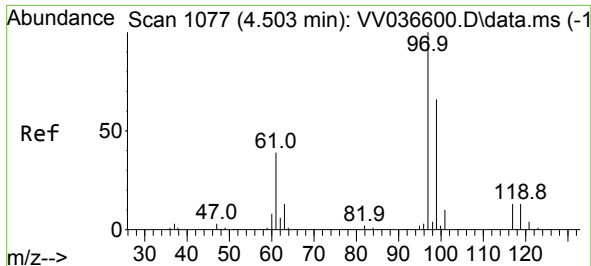
Tgt Ion: 43 Resp: 3018

Ion Ratio Lower Upper

43 100

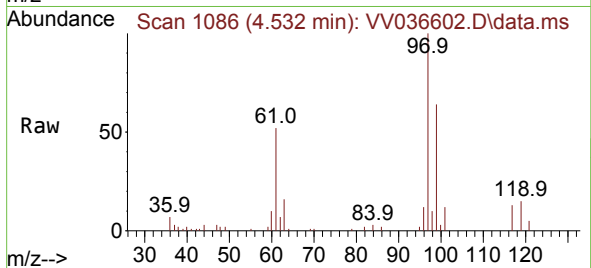
72 0.0 5.9 17.6#



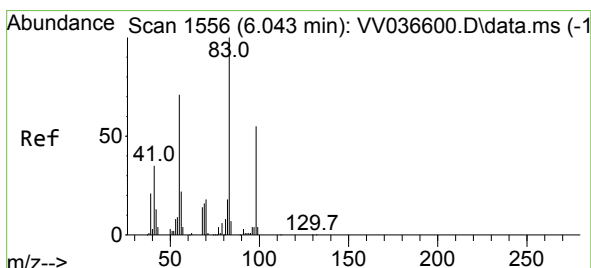
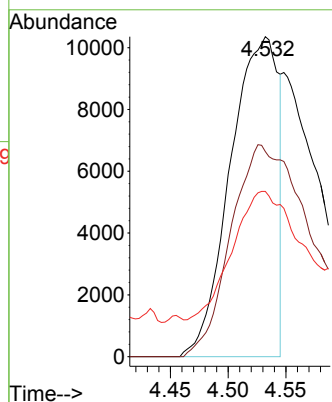
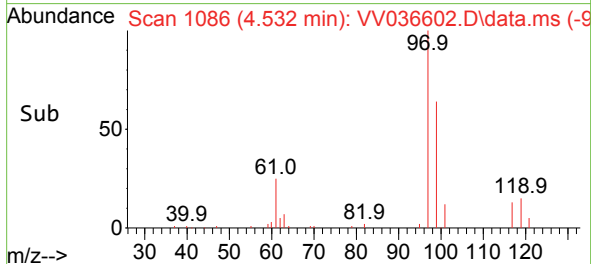


#30
1,1,1-Trichloroethane
Concen: 2.144 ug/L
RT: 4.532 min Scan# 1077
Delta R.T. 0.029 min
Lab File: VV036602.D
Acq: 18 Jul 2024 15:13

Instrument :
MSVOA_V
ClientSampleId :

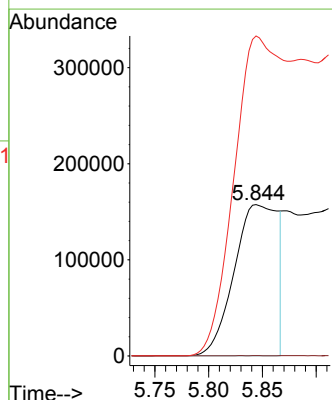
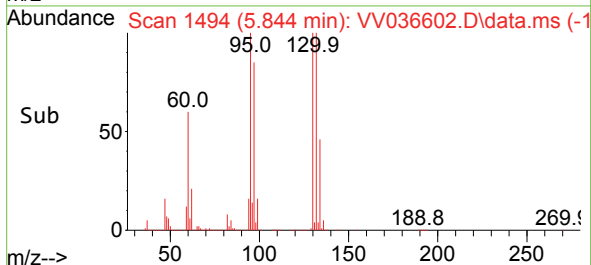
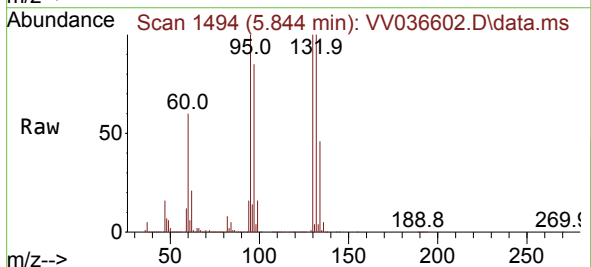


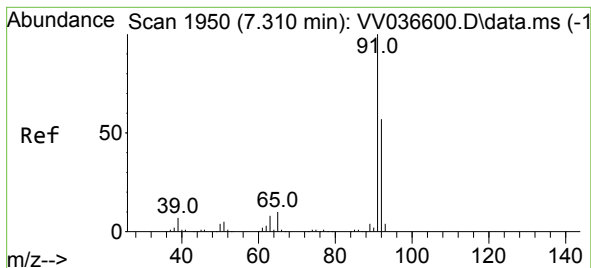
Tgt Ion: 97 Resp: 29747
Ion Ratio Lower Upper
97 100
99 118.0 51.9 77.9#
61 44.4 32.2 48.4



#35
Methylcyclohexane
Concen: 41.420 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. -0.199 min
Lab File: VV036602.D
Acq: 18 Jul 2024 15:13

Tgt Ion: 83 Resp: 444389
Ion Ratio Lower Upper
83 100
55 0.0 54.3 81.5#
98 250.4 41.7 62.5#





#42

Toluene

Concen: 316.630 ug/L

RT: 7.448 min Scan# 1950

Delta R.T. 0.138 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Instrument :

MSVOA_V

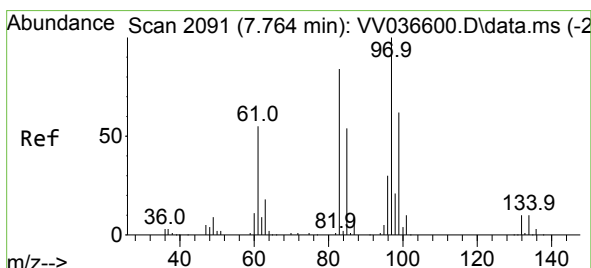
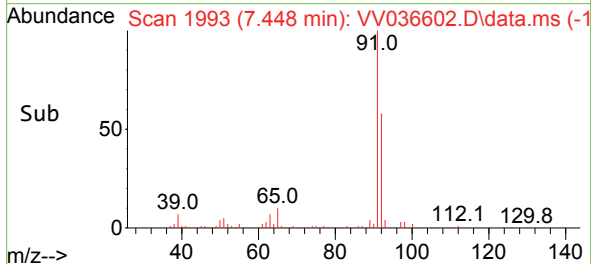
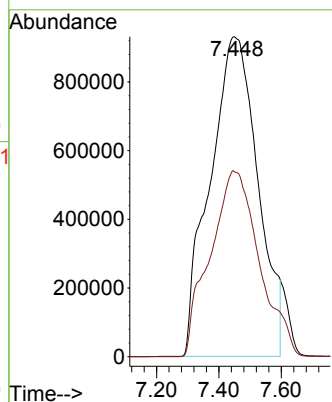
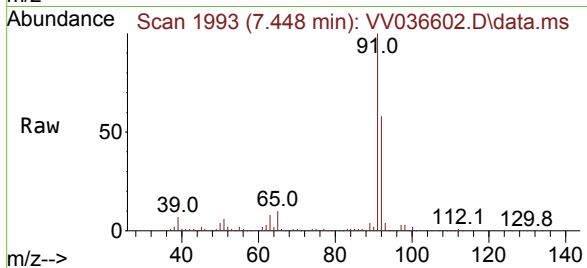
ClientSampleId :

Tgt Ion: 91 Resp: 9911622

Ion Ratio Lower Upper

91 100

92 57.9 40.1 74.5



#45

1,1,2-Trichloroethane

Concen: 2.188 ug/L

RT: 7.735 min Scan# 2082

Delta R.T. -0.029 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Tgt Ion: 97 Resp: 16072

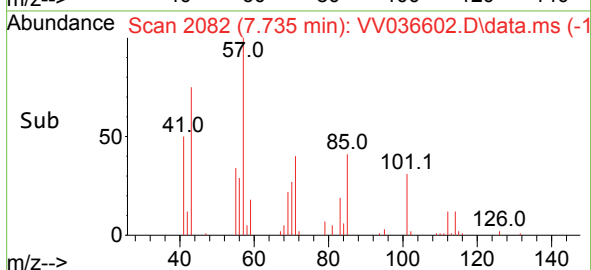
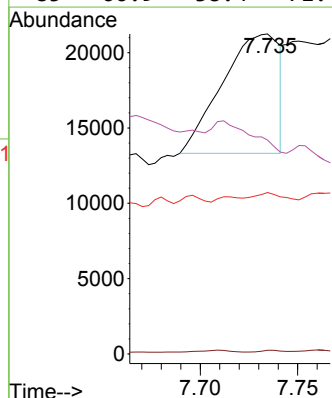
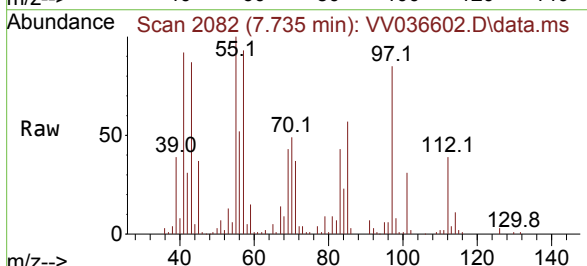
Ion Ratio Lower Upper

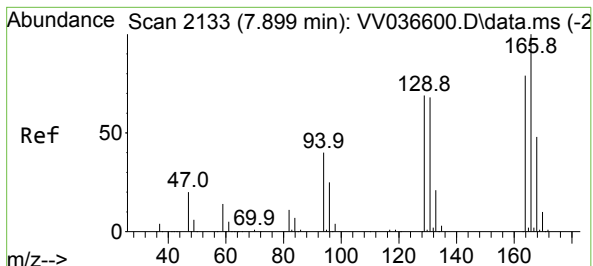
97 100

99 1.1 42.6 79.2#

83 50.5 58.0 107.6#

85 66.9 38.4 71.4





#46

Tetrachloroethene

Concen: 7508.419 ug/L

RT: 7.915 min Scan# 2133

Delta R.T. 0.016 min

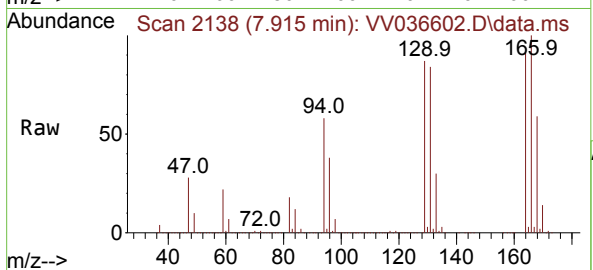
Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp:57072057

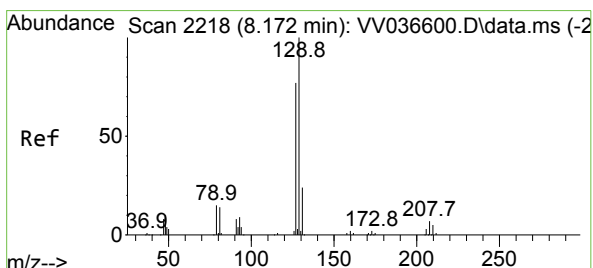
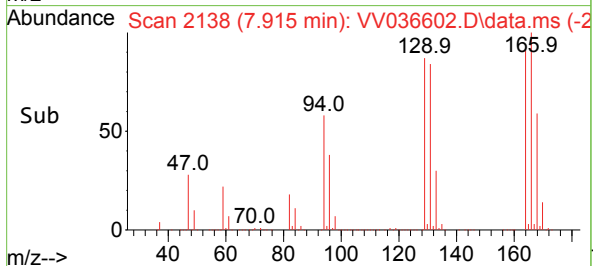
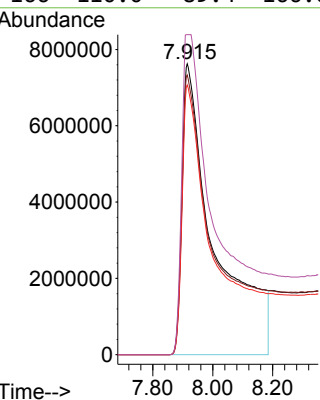
Ion Ratio Lower Upper

164 100

129 96.1 61.0 113.4

131 92.7 59.8 111.1

166 110.0 89.4 166.0



#49

Dibromochloromethane

Concen: 269.867 ug/L

RT: 8.416 min Scan# 2294

Delta R.T. 0.244 min

Lab File: VV036602.D

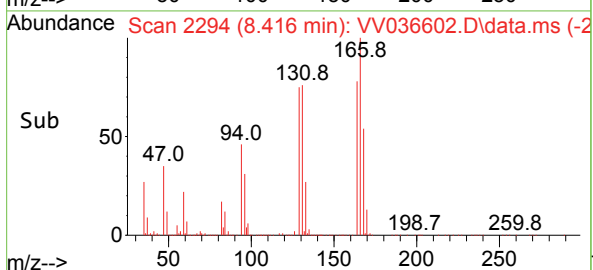
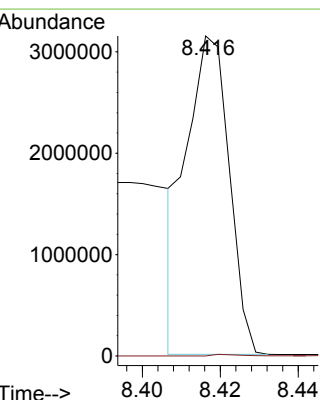
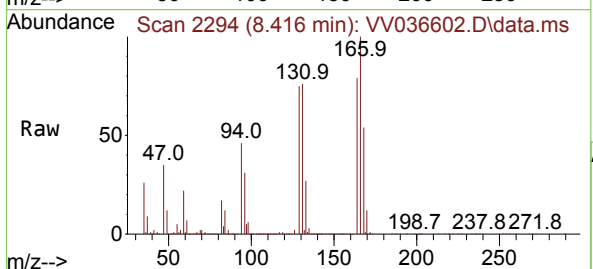
Acq: 18 Jul 2024 15:13

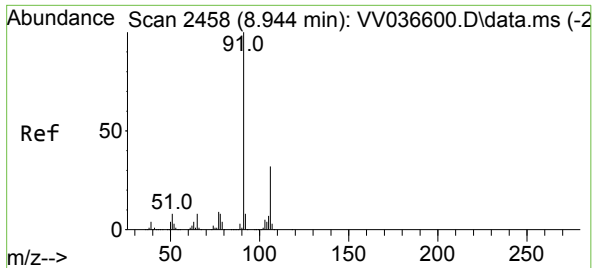
Tgt Ion:129 Resp: 2397499

Ion Ratio Lower Upper

129 100

127 0.0 53.7 99.7#

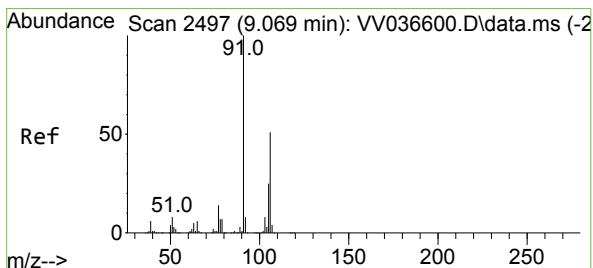
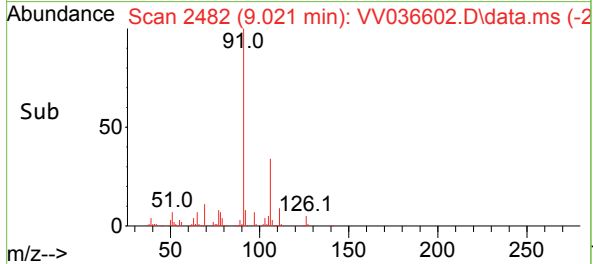
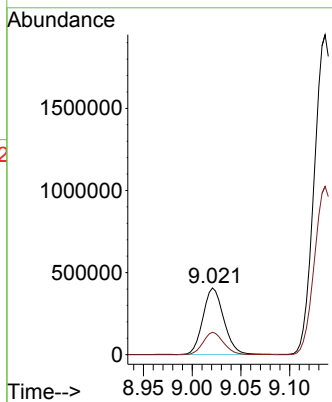
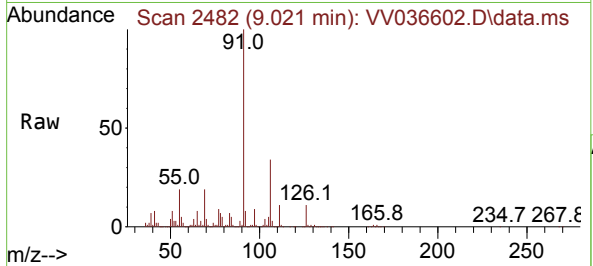




#52
 Ethylbenzene
 Concen: 17.877 ug/L
 RT: 9.021 min Scan# 2458
 Delta R.T. 0.077 min
 Lab File: VV036602.D
 Acq: 18 Jul 2024 15:13

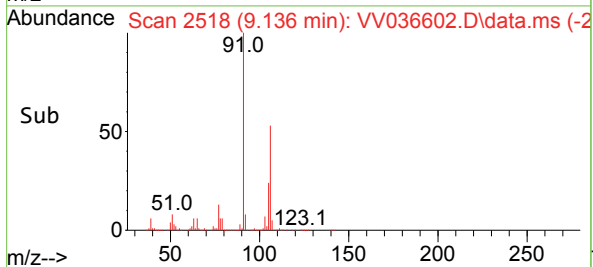
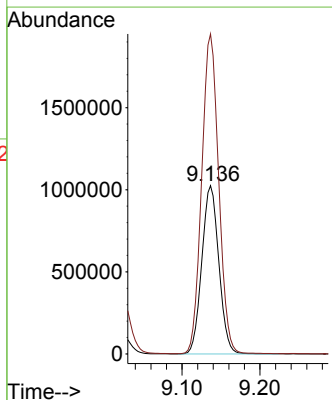
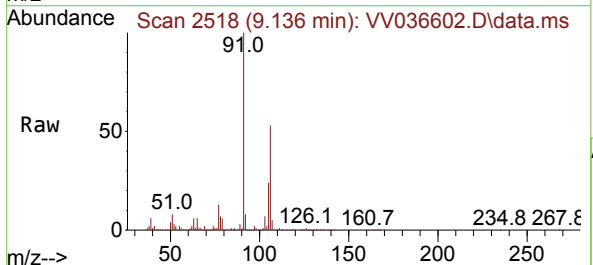
Instrument :
 MSVOA_V
 ClientSampleId :

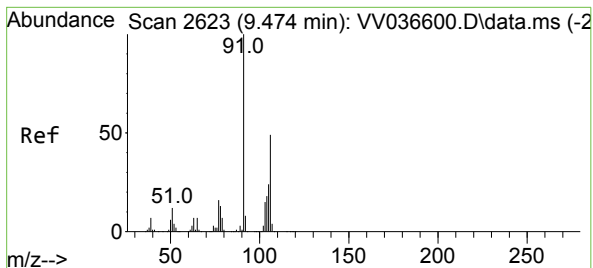
Tgt Ion: 91 Resp: 600286
 Ion Ratio Lower Upper
 91 100
 106 33.5 22.6 42.0



#53
 m,p-Xylene
 Concen: 119.813 ug/L
 RT: 9.136 min Scan# 2518
 Delta R.T. 0.067 min
 Lab File: VV036602.D
 Acq: 18 Jul 2024 15:13

Tgt Ion:106 Resp: 1548960
 Ion Ratio Lower Upper
 106 100
 91 190.1 137.1 254.7





#54

o-Xylene

Concen: 44.744 ug/L

RT: 9.525 min Scan# 2639

Delta R.T. 0.051 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Instrument :

MSVOA_V

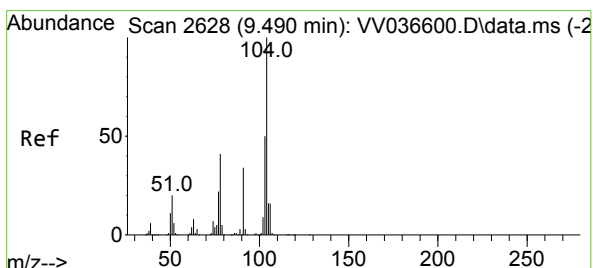
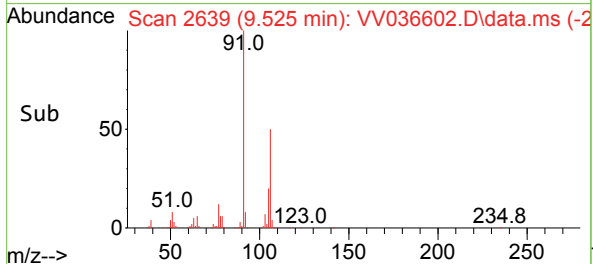
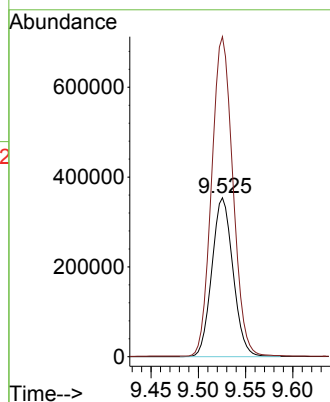
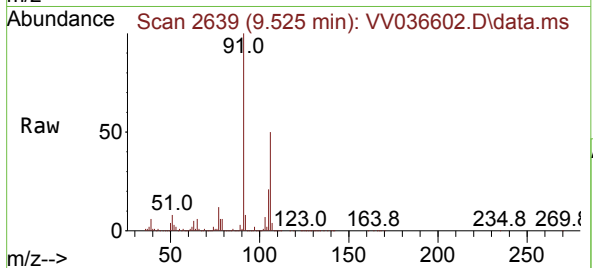
ClientSampleId :

Tgt Ion:106 Resp: 550741

Ion Ratio Lower Upper

106 100

91 201.4 147.3 273.6



#55

Styrene

Concen: 1.254 ug/L

RT: 9.525 min Scan# 2639

Delta R.T. 0.035 min

Lab File: VV036602.D

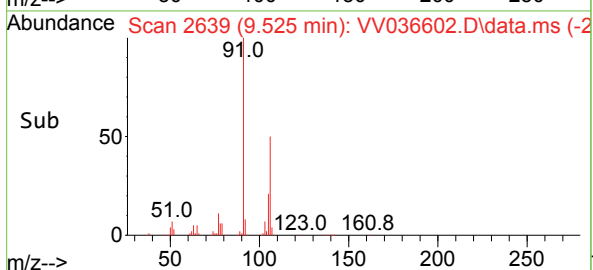
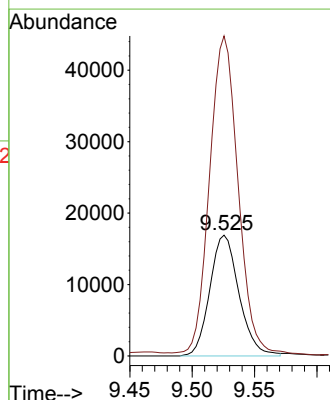
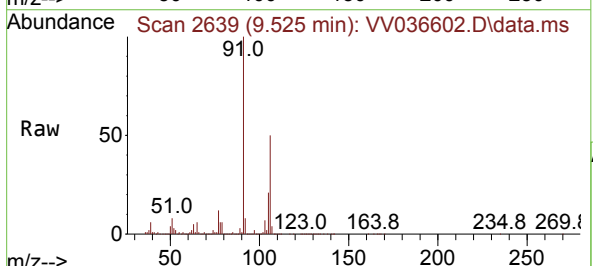
Acq: 18 Jul 2024 15:13

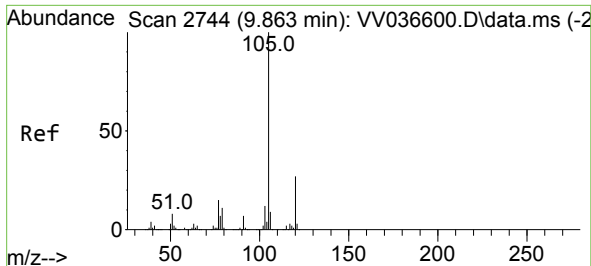
Tgt Ion:104 Resp: 27609

Ion Ratio Lower Upper

104 100

78 264.7 28.8 53.6#

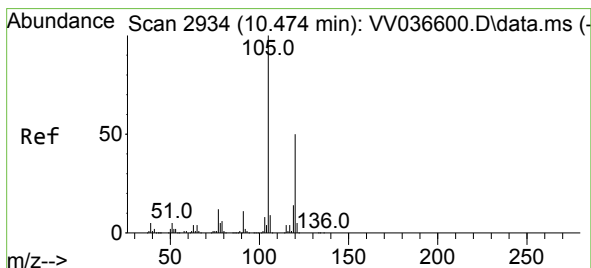
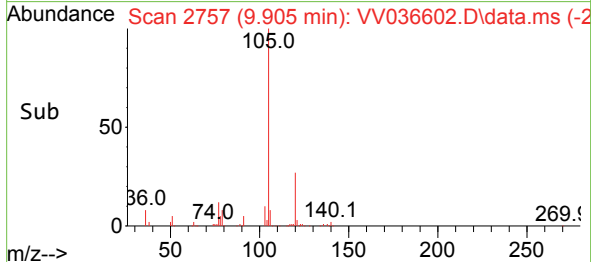
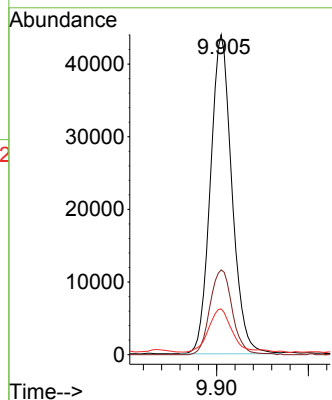
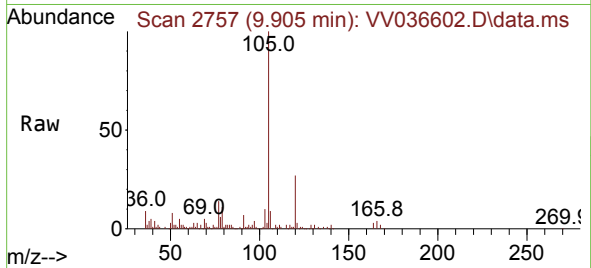




#60
Isopropylbenzene
Concen: 2.180 ug/L
RT: 9.905 min Scan# 21
Delta R.T. 0.042 min
Lab File: VV036602.D
Acq: 18 Jul 2024 15:13

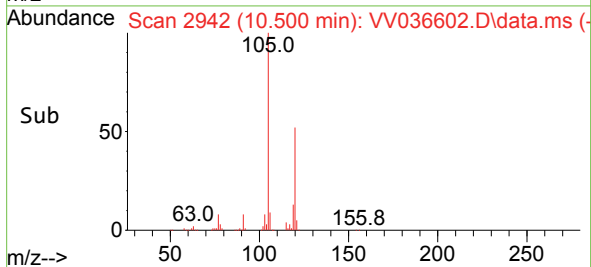
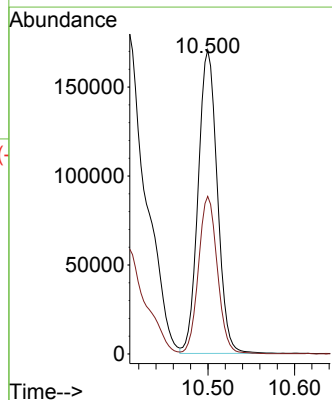
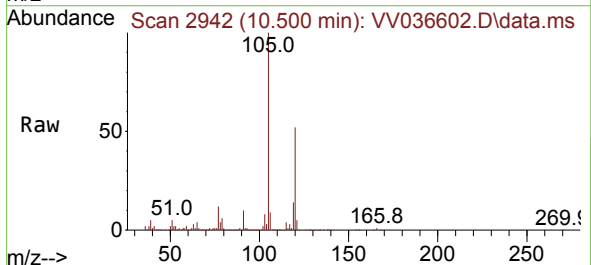
Instrument :
MSVOA_V
ClientSampleId :

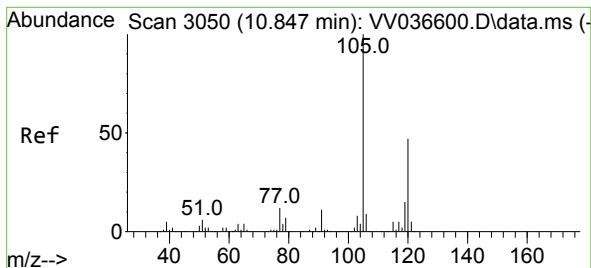
Tgt Ion:105 Resp: 71326
Ion Ratio Lower Upper
105 100
120 27.6 21.8 32.6
77 14.5 12.0 18.0



#62
1,3,5-Trimethylbenzene
Concen: 11.174 ug/L
RT: 10.500 min Scan# 2942
Delta R.T. 0.026 min
Lab File: VV036602.D
Acq: 18 Jul 2024 15:13

Tgt Ion:105 Resp: 261794
Ion Ratio Lower Upper
105 100
120 51.2 39.9 59.9





#63

1,2,4-Trimethylbenzene

Concen: 12.659 ug/L

RT: 10.869 min Scan# 3050

Delta R.T. 0.022 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

Instrument :

MSVOA_V

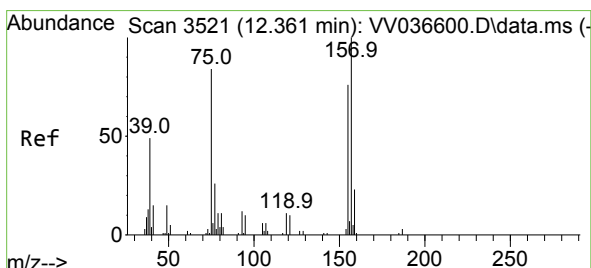
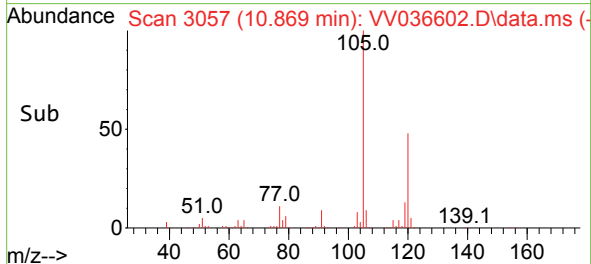
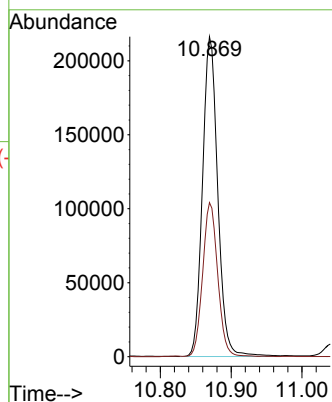
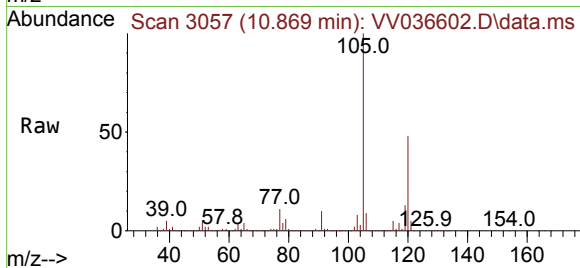
ClientSampleId :

Tgt Ion:105 Resp: 322713

Ion Ratio Lower Upper

105 100

120 47.3 37.0 55.4



#68

1,2-Dibromo-3-chloropropane

Concen: 0.835 ug/L

RT: 12.188 min Scan# 3467

Delta R.T. -0.174 min

Lab File: VV036602.D

Acq: 18 Jul 2024 15:13

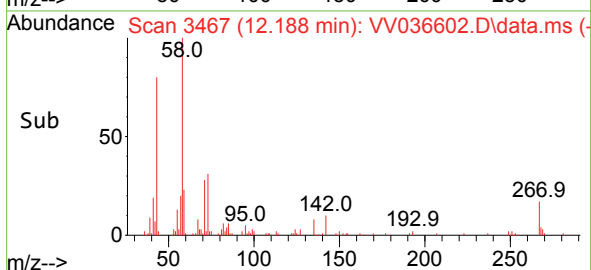
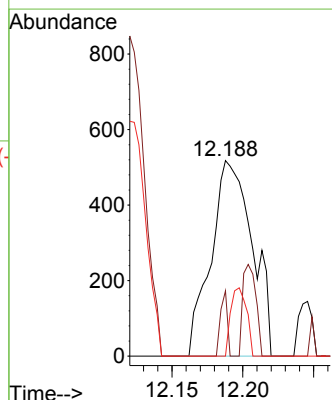
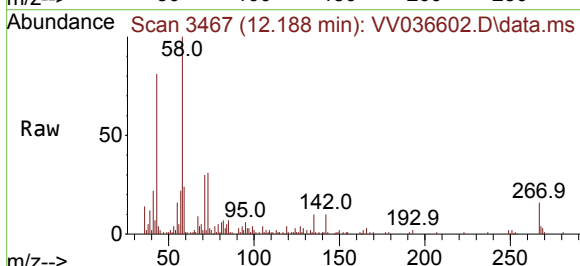
Tgt Ion: 75 Resp: 1052

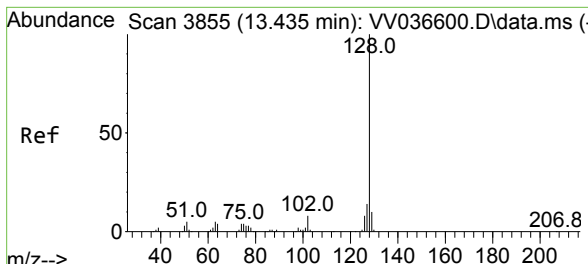
Ion Ratio Lower Upper

75 100

155 33.4 74.6 111.8#

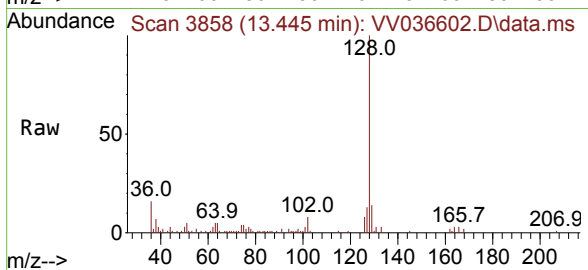
157 0.0 95.0 142.4#





#71
 Naphthalene
 Concen: 1.566 ug/L
 RT: 13.445 min Scan# 3858
 Delta R.T. 0.010 min
 Lab File: VV036602.D
 Acq: 18 Jul 2024 15:13

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	128	Resp:	28011
Ion Ratio	Lower	Upper	
128	100		
127	11.2	10.8	16.2
129	10.8	8.6	13.0

