

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW071824\
 Data File : VW036603.D
 Acq On : 18 Jul 2024 15:36
 Operator : SY/MD
 Sample : P3298-07
 Misc : 5.76g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 19 04:40:47 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	5.567	114	566372	25.000	ug/L	0.04
28) Chlorobenzene-d5	8.886	117	372041	25.000	ug/L	0.11
58) 1,4-Dichlorobenzene-d4	11.201	152	179663	25.000	ug/L	0.02

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	163391	20.136	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.560%
7) Chloroethane-d5	1.532	69	103005	14.519	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	58.080%
11) 1,1-Dichloroethene-d2	2.059	65	59880	14.371	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	57.480%
21) 2-Butanone-d5	3.844	46	67793	48.813	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.620%
24) Chloroform-d	4.265	84	211557	12.833	ug/L	0.03
Spiked Amount	25.000	Range	40 - 150	Recovery	=	51.320%
26) 1,2-Dichloroethane-d4	4.953	65	120904	14.786	ug/L	0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	59.160%#
32) Benzene-d6	4.985	84	413712	22.290	ug/L	0.04
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.160%
36) 1,2-Dichloropropane-d6	6.011	67	112066	20.259	ug/L	0.03
Spiked Amount	25.000	Range	70 - 120	Recovery	=	81.040%
41) Toluene-d8	7.194	98	200	0.012	ug/L	-0.04
Spiked Amount	25.000	Range	30 - 130	Recovery	=	0.040%#
43) trans-1,3-Dichloroprop...	7.522	79	21	0.009	ug/L	-0.03
Spiked Amount	25.000	Range	30 - 135	Recovery	=	0.040%#
47) 2-Hexanone-d5	7.796	63	47	0.077	ug/L	-0.23
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.160%#
56) 1,1,2,2-Tetrachloroeth...	10.178	84	101506	21.788	ug/L	0.03
Spiked Amount	25.000	Range	45 - 120	Recovery	=	87.160%
66) 1,2-Dichlorobenzene-d4	11.574	152	102549	16.819	ug/L	0.02
Spiked Amount	25.000	Range	75 - 120	Recovery	=	67.280%#

Target Compounds				Qvalue		
5) Vinyl chloride	1.278	62	4920270	607.038	ug/L	99
12) 1,1-Dichloroethene	2.069	96	193516	23.129	ug/L	87
13) Acetone	2.175	43	44892	22.863	ug/L	91
14) Carbon disulfide	2.243	76	16909	0.900	ug/L	99
15) Methyl Acetate	2.413	43	8498	3.203	ug/L #	72
16) Methylene chloride	2.452	84	34599	2.971	ug/L	95
17) trans-1,2-Dichloroethene	2.703	96	120053	15.789	ug/L	98
19) 1,1-Dichloroethane	3.121	63	57067	4.146	ug/L	99
22) 2-Butanone	3.918	43	3990	2.420	ug/L #	70
30) 1,1,1-Trichloroethane	4.526	97	705371	81.559	ug/L	100
31) Carbon tetrachloride	4.529	117	95409	12.439	ug/L	99
33) Benzene	5.030	78	20466	1.112	ug/L	100
34) Trichloroethene	5.863	95	46842343	7995.265	ug/L	94
35) Methylcyclohexane	5.863	83	603095	90.196	ug/L #	1
42) Toluene	7.448	91	6061350	310.698	ug/L	99
46) Tetrachloroethene	7.915	164	56944634	12020.968	ug/L	88
48) 2-Hexanone	8.088	43	1216	0.776	ug/L #	36
49) Dibromochloromethane	8.426	129	2321078	419.220	ug/L #	11
52) Ethylbenzene	9.027	91	136862	6.540	ug/L	99

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Quant Time: Jul 19 04:40:47 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

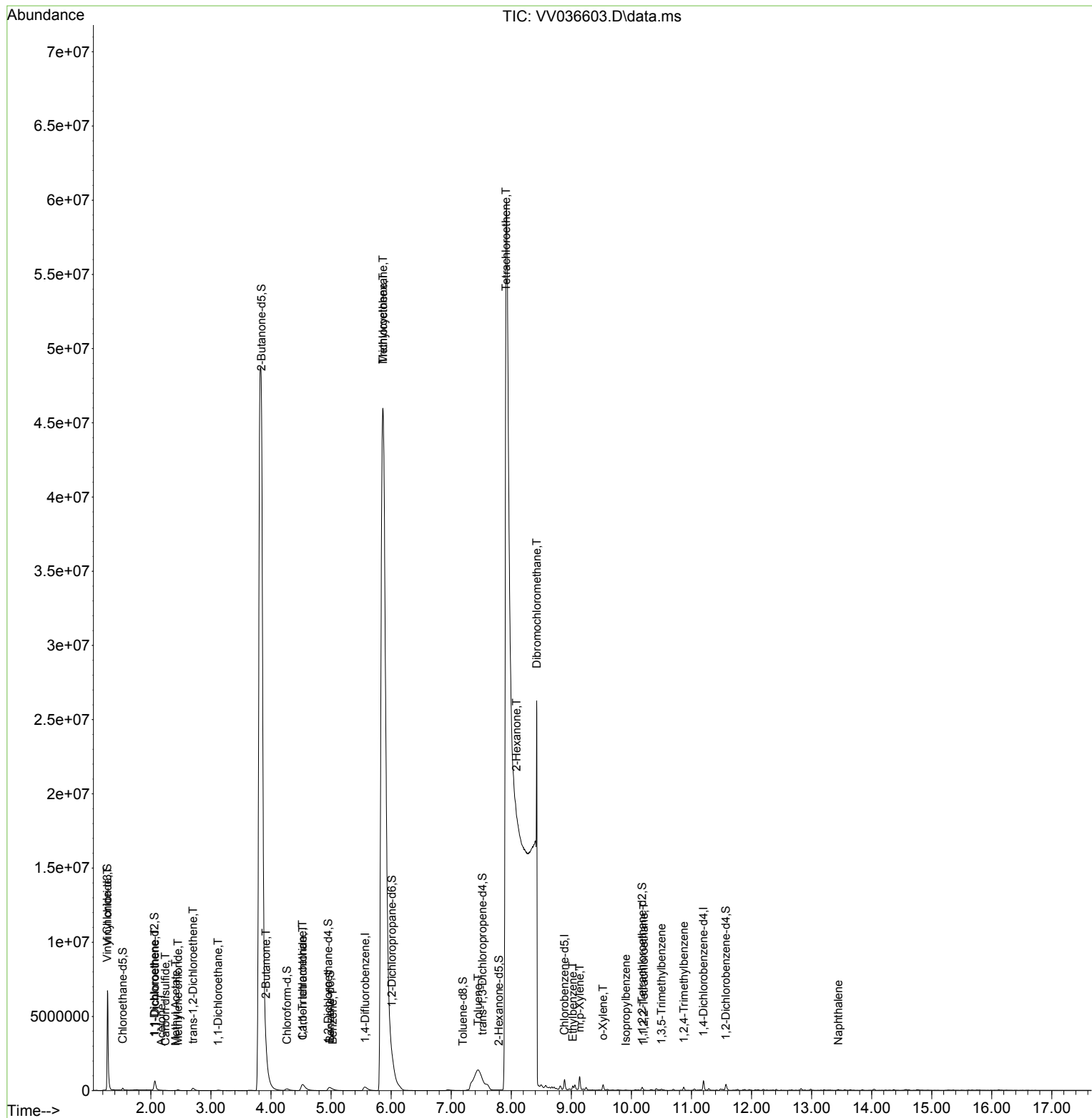
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.140	106	260399	32.320	ug/L	98
54) o-Xylene	9.529	106	103337	13.471	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.210	83	1755	0.420	ug/L #	20
60) Isopropylbenzene	9.908	105	15809	0.881	ug/L	99
62) 1,3,5-Trimethylbenzene	10.503	105	43857	3.412	ug/L	97
63) 1,2,4-Trimethylbenzene	10.873	105	121596	8.694	ug/L	99
71) Naphthalene	13.445	128	41224	4.201	ug/L	97

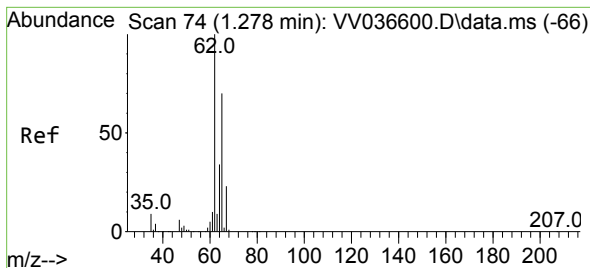
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 607.038 ug/L

RT: 1.278 min Scan# 74

Delta R.T. -0.000 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Instrument :

MSVOA_V

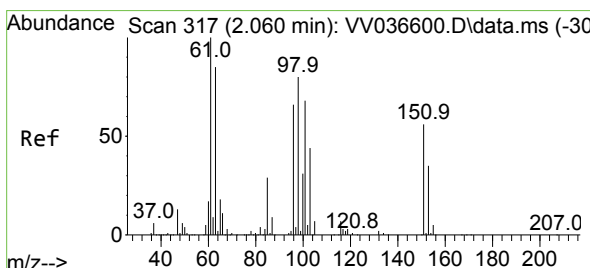
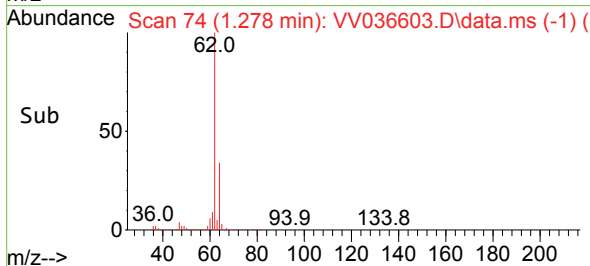
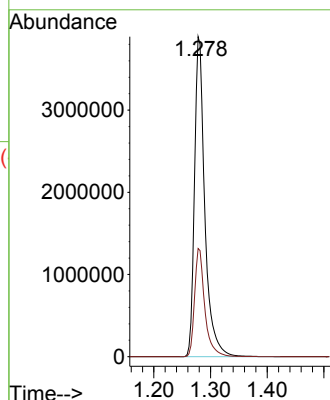
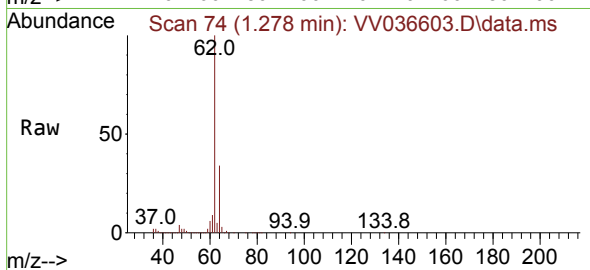
ClientSampleId :

Tgt Ion: 62 Resp: 4920270

Ion Ratio Lower Upper

62 100

64 33.8 23.4 43.4



#12

1,1-Dichloroethene

Concen: 23.129 ug/L

RT: 2.069 min Scan# 320

Delta R.T. 0.009 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

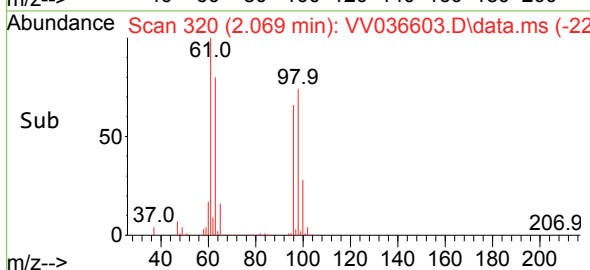
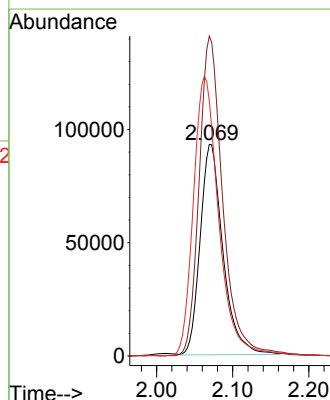
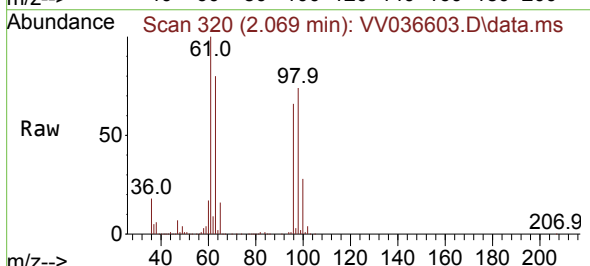
Tgt Ion: 96 Resp: 193516

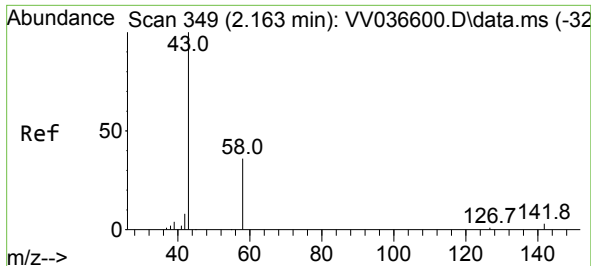
Ion Ratio Lower Upper

96 100

61 151.3 110.8 205.8

63 120.6 103.9 192.9

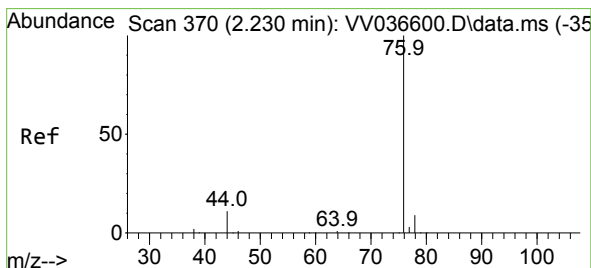
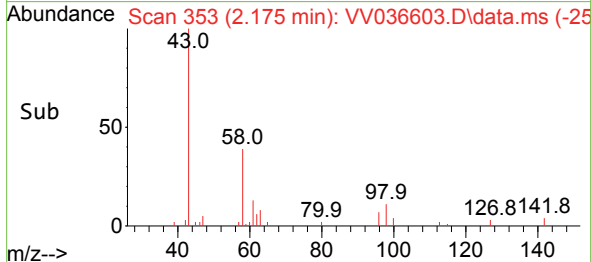
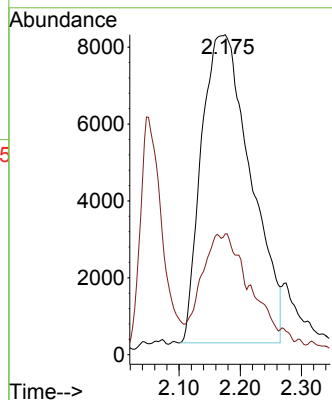
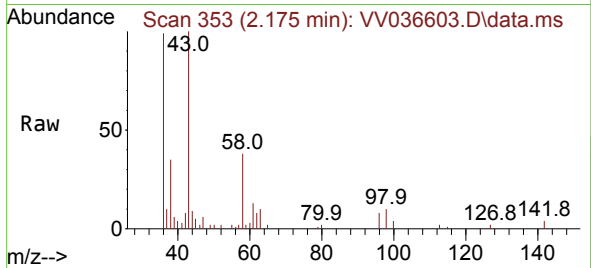




#13
Acetone
Concen: 22.863 ug/L
RT: 2.175 min Scan# 313
Delta R.T. 0.013 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

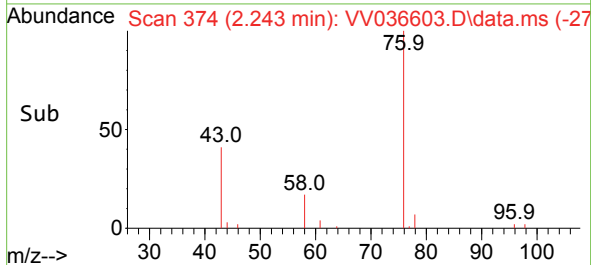
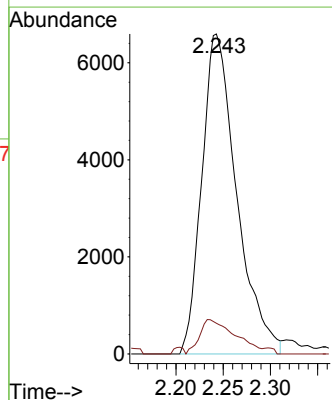
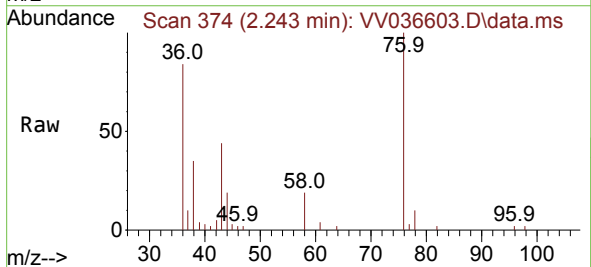
Instrument :
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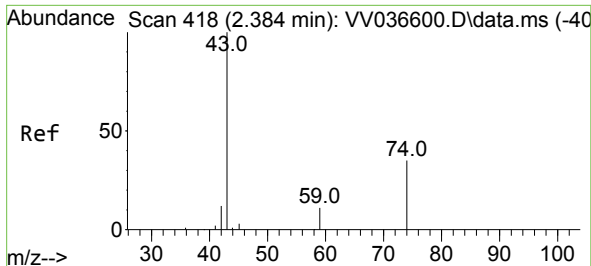
Tgt Ion: 43 Resp: 44892
Ion Ratio Lower Upper
43 100
58 10.6 0.0 28.4



#14
Carbon disulfide
Concen: 0.900 ug/L
RT: 2.243 min Scan# 374
Delta R.T. 0.013 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

Tgt Ion: 76 Resp: 16909
Ion Ratio Lower Upper
76 100
78 9.6 7.4 11.2

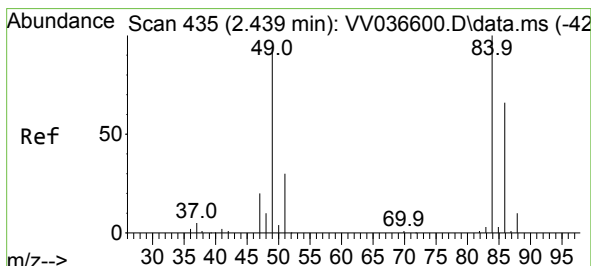
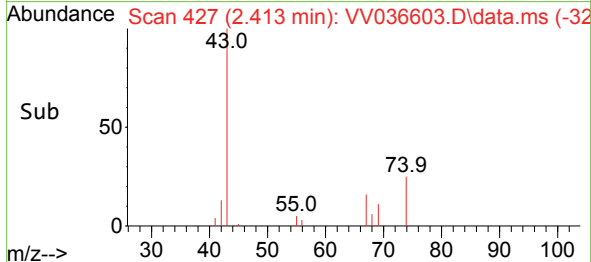
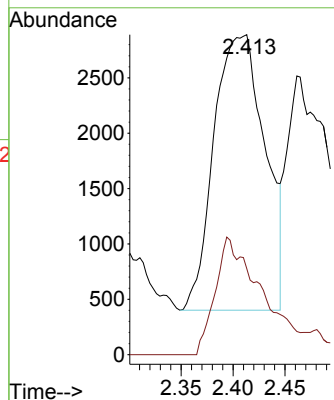
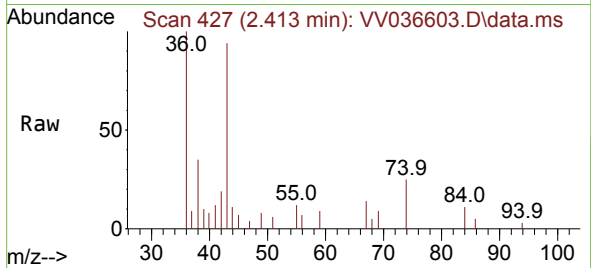




#15
Methyl Acetate
Concen: 3.203 ug/L
RT: 2.413 min Scan# 418
Delta R.T. 0.029 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

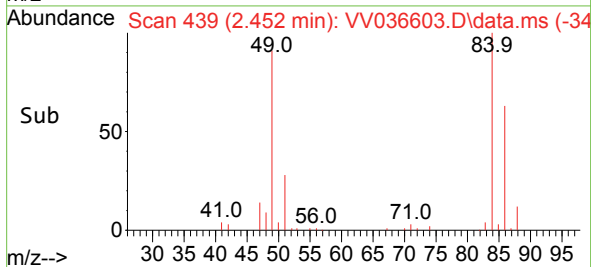
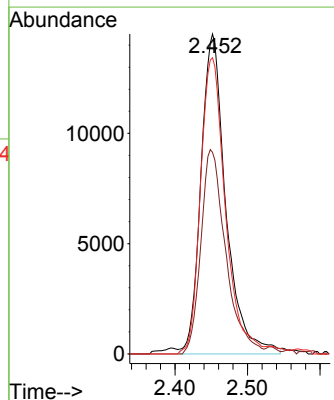
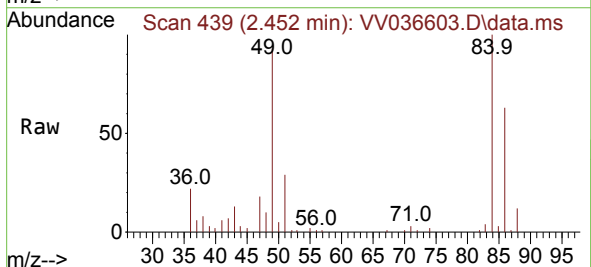
Instrument :
MSVOA_V
ClientSampleId :

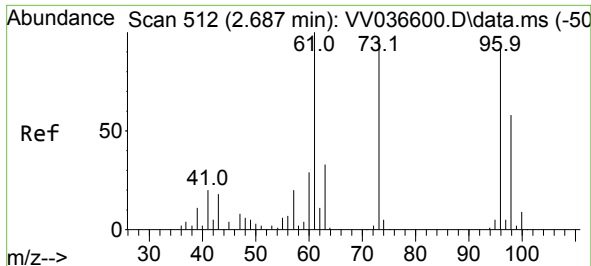
Tgt Ion: 43 Resp: 8498
Ion Ratio Lower Upper
43 100
74 17.4 26.3 39.5#



#16
Methylene chloride
Concen: 2.971 ug/L
RT: 2.452 min Scan# 439
Delta R.T. 0.013 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

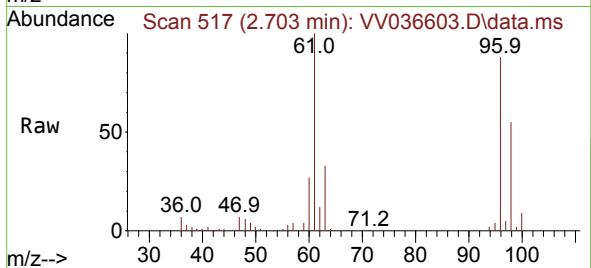
Tgt Ion: 84 Resp: 34599
Ion Ratio Lower Upper
84 100
86 63.0 46.3 86.1
49 92.5 68.1 126.5



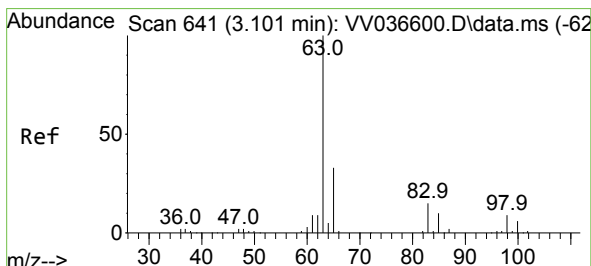
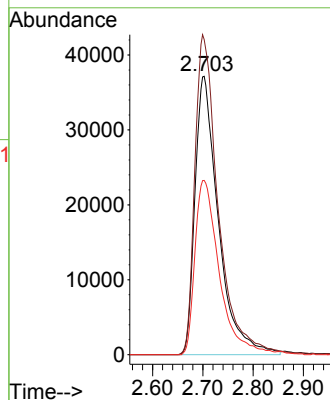
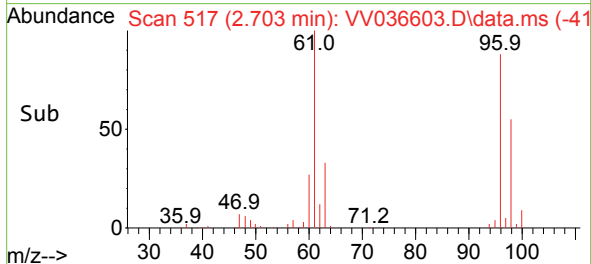


#17
trans-1,2-Dichloroethene
Concen: 15.789 ug/L
RT: 2.703 min Scan# 512
Delta R.T. 0.016 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

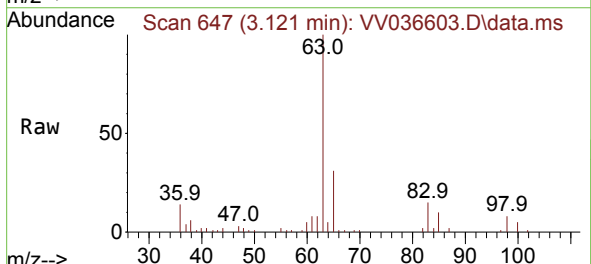
Instrument :
MSVOA_V
ClientSampleId :



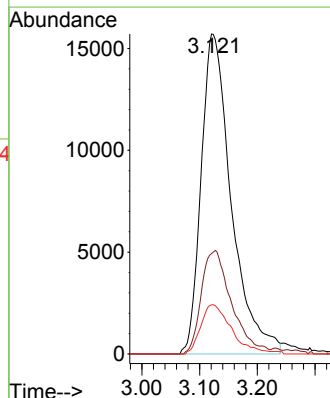
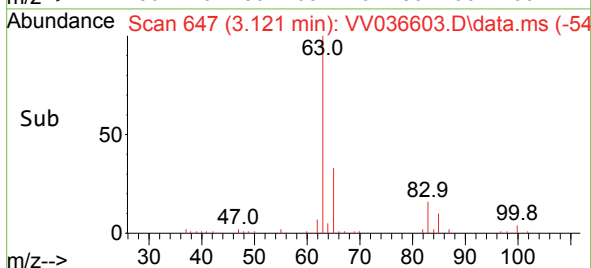
Tgt Ion: 96 Resp: 120053
Ion Ratio Lower Upper
96 100
61 113.1 80.7 149.9
98 62.6 44.6 82.8

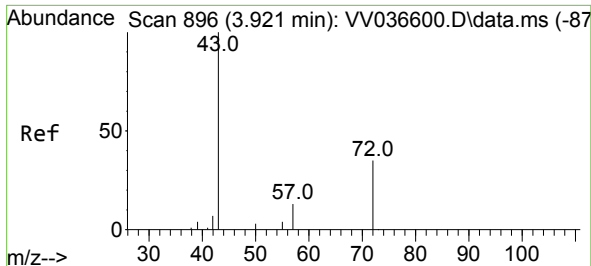


#19
1,1-Dichloroethane
Concen: 4.146 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.019 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36



Tgt Ion: 63 Resp: 57067
Ion Ratio Lower Upper
63 100
65 31.4 22.7 42.1
83 15.3 10.9 20.2

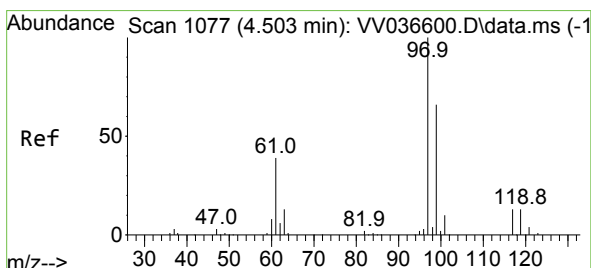
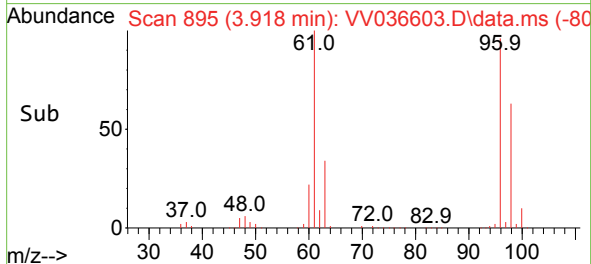
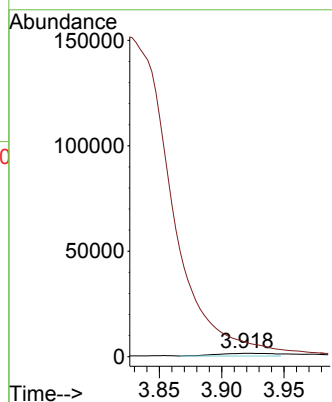
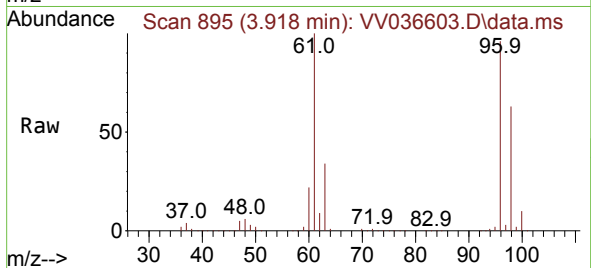




#22
2-Butanone
Concen: 2.420 ug/L
RT: 3.918 min Scan# 896
Delta R.T. -0.003 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

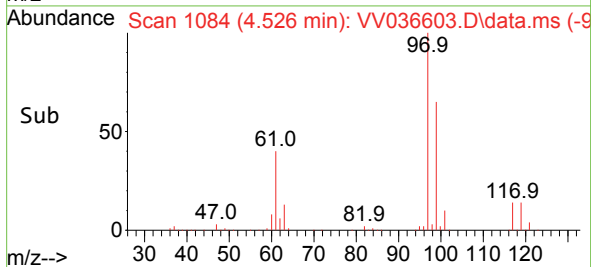
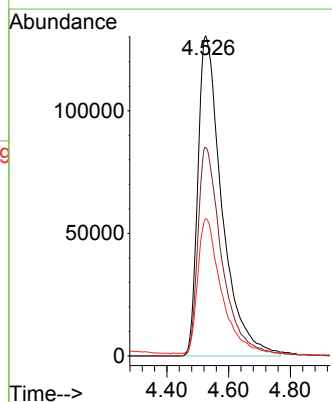
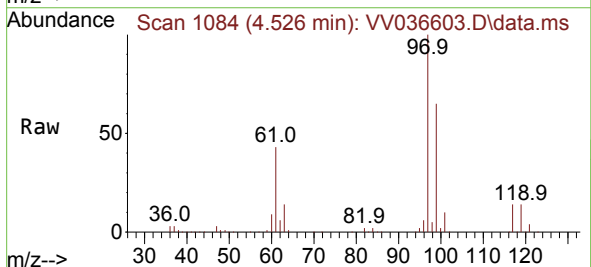
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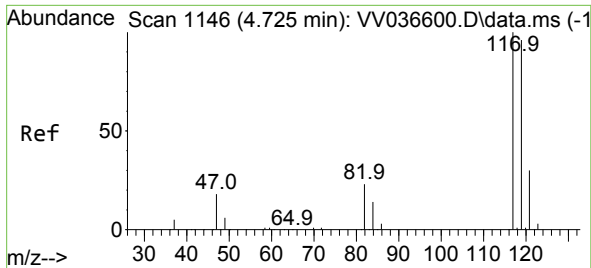
Tgt Ion: 43 Resp: 3990
Ion Ratio Lower Upper
43 100
72 0.0 5.9 17.6#



#30
1,1,1-Trichloroethane
Concen: 81.559 ug/L
RT: 4.526 min Scan# 1084
Delta R.T. 0.022 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

Tgt Ion: 97 Resp: 705371
Ion Ratio Lower Upper
97 100
99 65.0 51.9 77.9
61 40.3 32.2 48.4

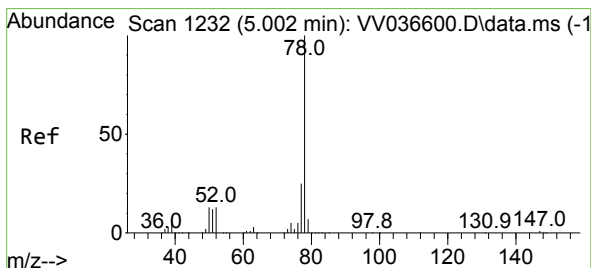
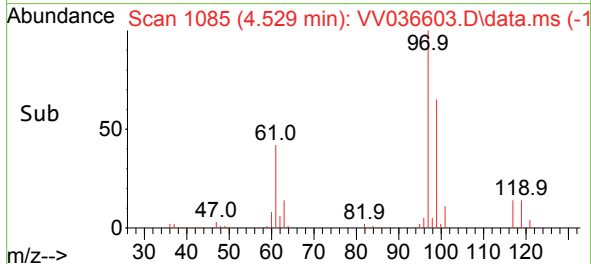
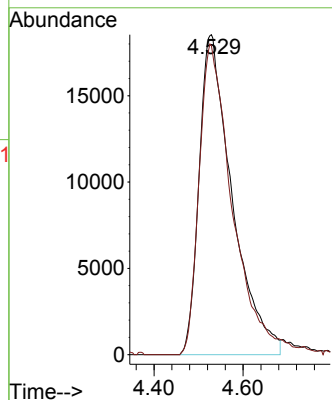
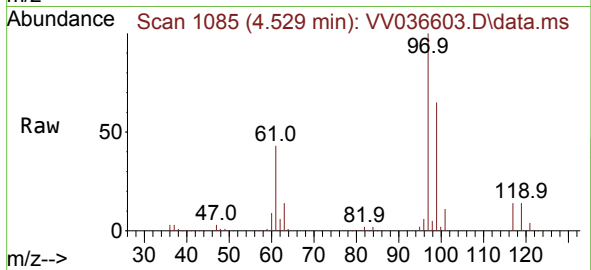




#31
Carbon tetrachloride
Concen: 12.439 ug/L
RT: 4.529 min Scan# 1085
Delta R.T. -0.196 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

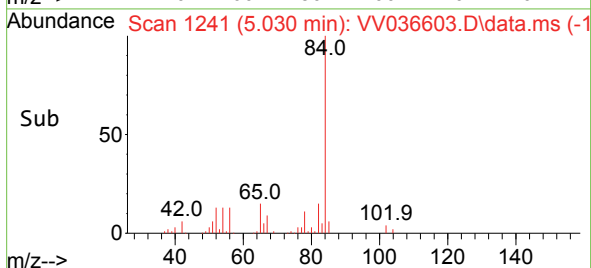
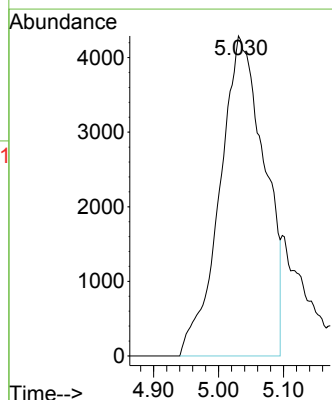
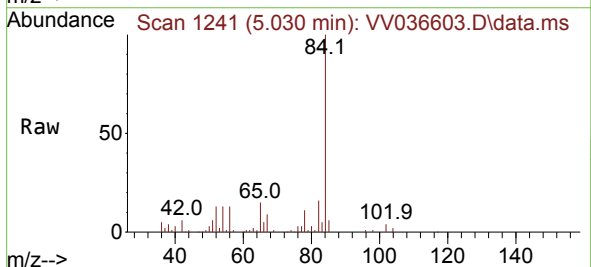
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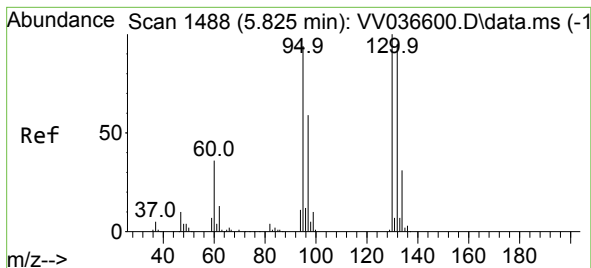
Tgt Ion:117 Resp: 95409
Ion Ratio Lower Upper
117 100
119 96.1 77.6 116.4



#33
Benzene
Concen: 1.112 ug/L
RT: 5.030 min Scan# 1241
Delta R.T. 0.029 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

Tgt Ion: 78 Resp: 20466





#34

Trichloroethene

Concen: 7995.265 ug/L

RT: 5.863 min Scan# 1500

Delta R.T. 0.038 min

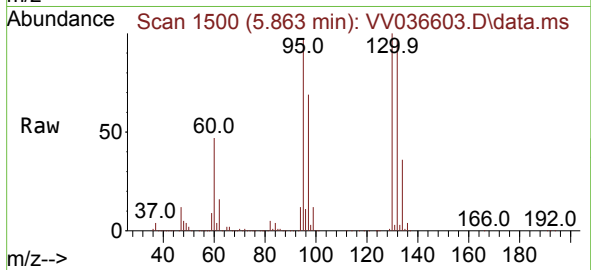
Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 95 Resp:46842343

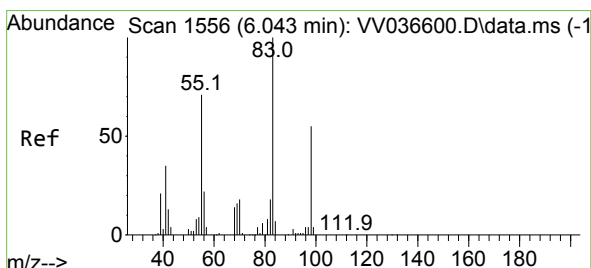
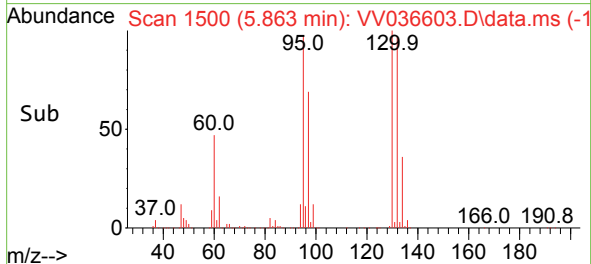
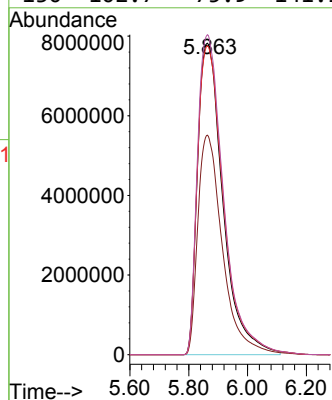
Ion Ratio Lower Upper

95 100

97 70.5 44.4 82.4

132 99.1 73.0 135.6

130 102.7 75.9 141.1



#35

Methylcyclohexane

Concen: 90.196 ug/L

RT: 5.863 min Scan# 1500

Delta R.T. -0.180 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

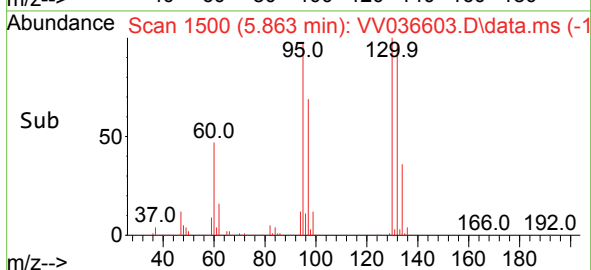
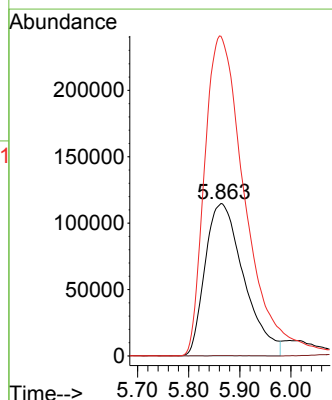
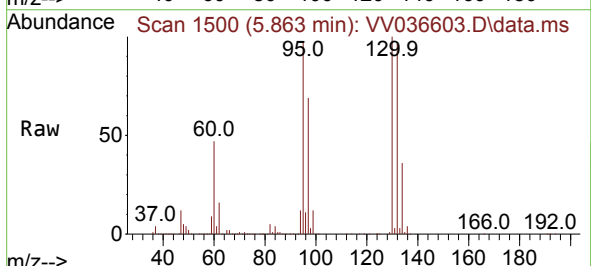
Tgt Ion: 83 Resp: 603095

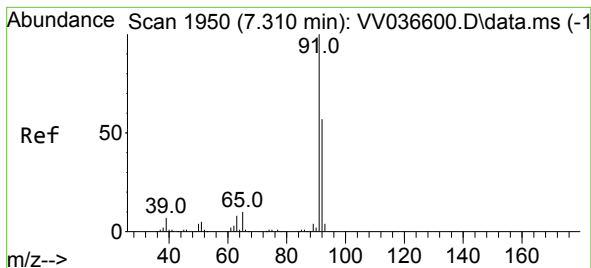
Ion Ratio Lower Upper

83 100

55 0.1 54.3 81.5#

98 221.7 41.7 62.5#





#42

Toluene

Concen: 310.698 ug/L

RT: 7.448 min Scan# 1950

Delta R.T. 0.138 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Instrument :

MSVOA_V

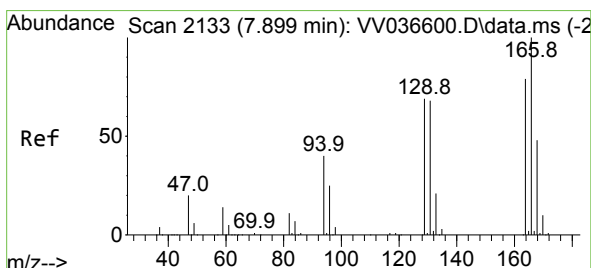
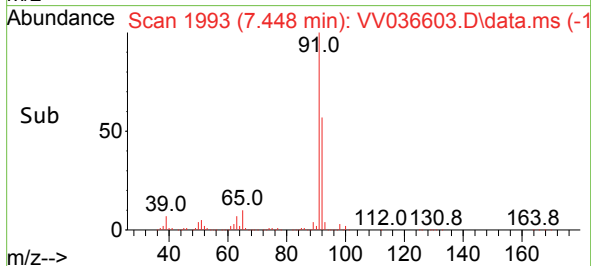
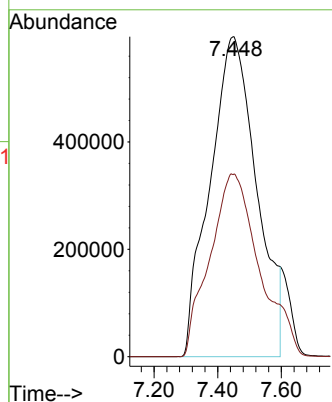
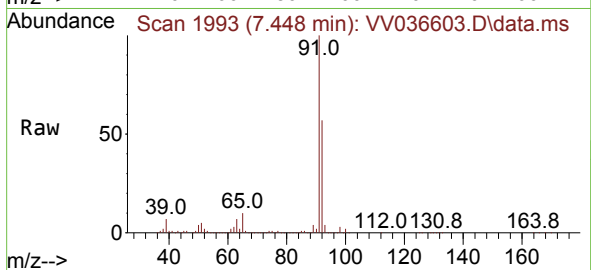
ClientSampleId :

Tgt Ion: 91 Resp: 6061350

Ion Ratio Lower Upper

91 100

92 56.9 40.1 74.5



#46

Tetrachloroethene

Concen: 12020.968 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. 0.016 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Tgt Ion: 164 Resp: 56944634

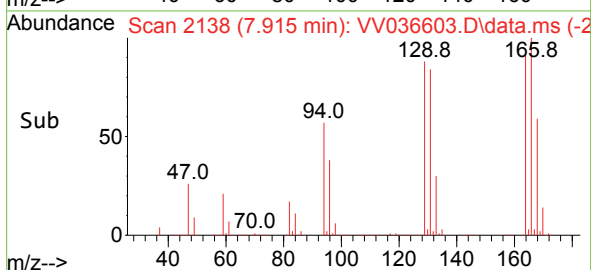
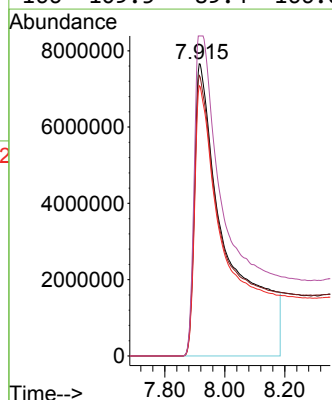
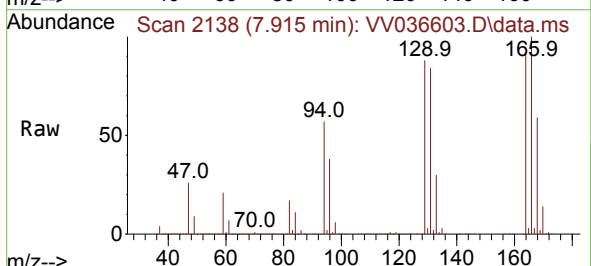
Ion Ratio Lower Upper

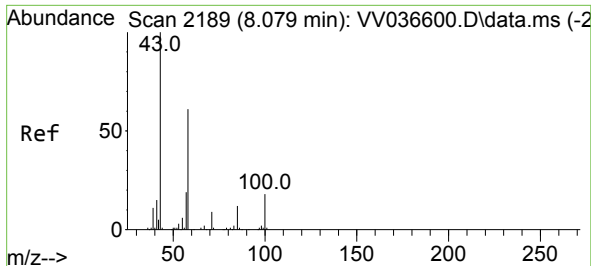
164 100

129 96.0 61.0 113.4

131 92.5 59.8 111.1

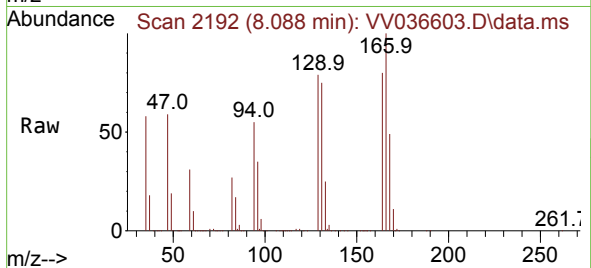
166 109.5 89.4 166.0



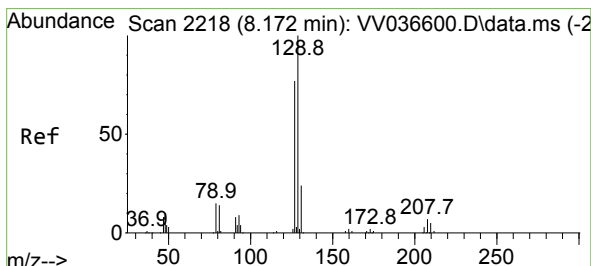
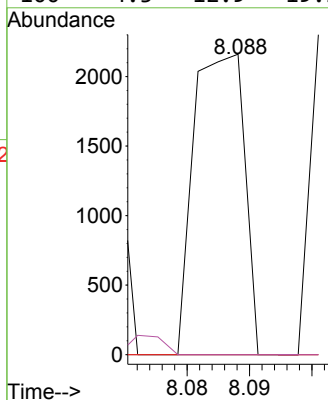
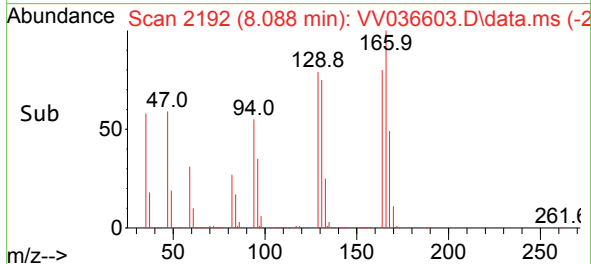


#48
2-Hexanone
Concen: 0.776 ug/L
RT: 8.088 min Scan# 2189
Delta R.T. 0.009 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

Instrument :
MSVOA_V
ClientSampleId :

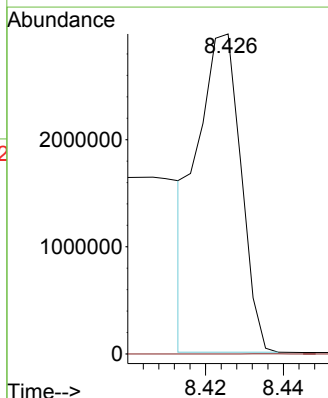
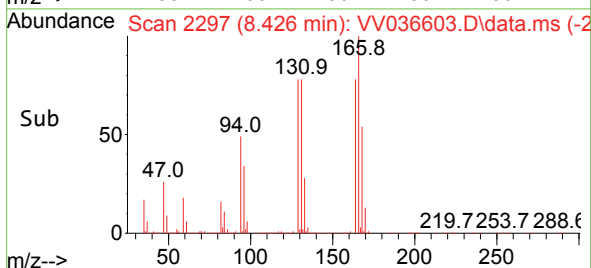
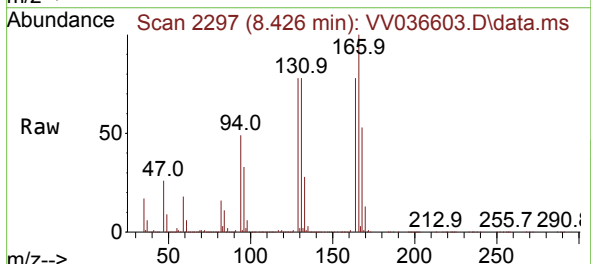


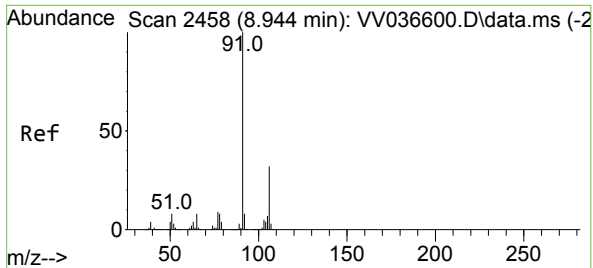
Tgt Ion: 43	Resp:	1216
Ion Ratio	Lower	Upper
43	100	
58	0.0	49.5 74.3#
57	0.0	15.3 22.9#
100	4.3	12.9 19.3#



#49
Dibromochloromethane
Concen: 419.220 ug/L
RT: 8.426 min Scan# 2297
Delta R.T. 0.254 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

Tgt Ion: 129	Resp:	2321078
Ion Ratio	Lower	Upper
129	100	
127	0.0	53.7 99.7#

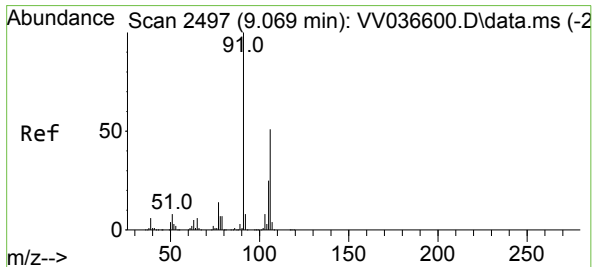
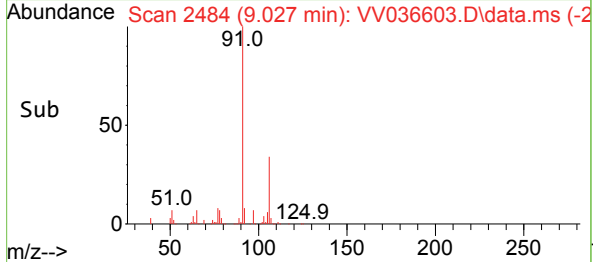
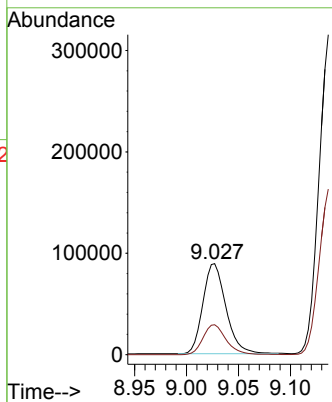
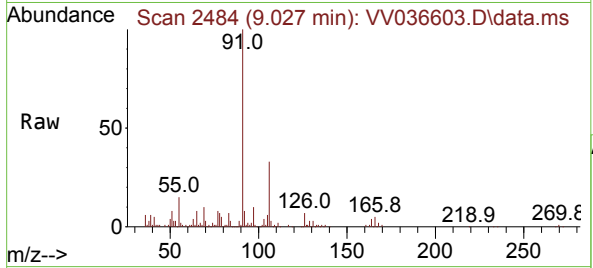




#52
Ethylbenzene
Concen: 6.540 ug/L
RT: 9.027 min Scan# 2458
Delta R.T. 0.083 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

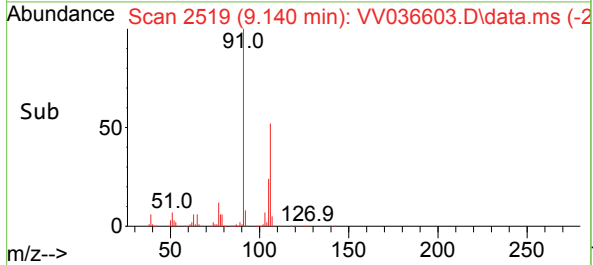
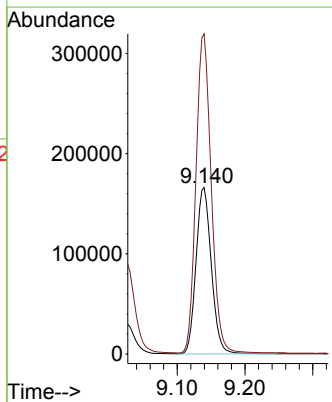
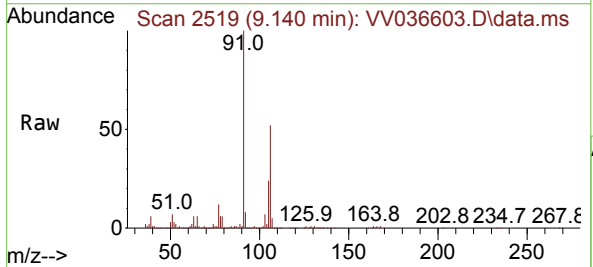
Instrument :
MSVOA_V
ClientSampleId :

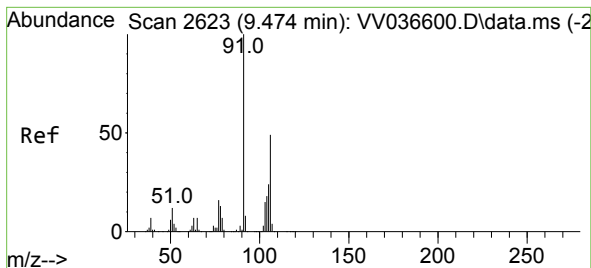
Tgt Ion: 91 Resp: 136862
Ion Ratio Lower Upper
91 100
106 32.9 22.6 42.0



#53
m,p-Xylene
Concen: 32.320 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.071 min
Lab File: VV036603.D
Acq: 18 Jul 2024 15:36

Tgt Ion: 106 Resp: 260399
Ion Ratio Lower Upper
106 100
91 192.3 137.1 254.7





#54

o-Xylene

Concen: 13.471 ug/L

RT: 9.529 min Scan# 2

Delta R.T. 0.054 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Instrument :

MSVOA_V

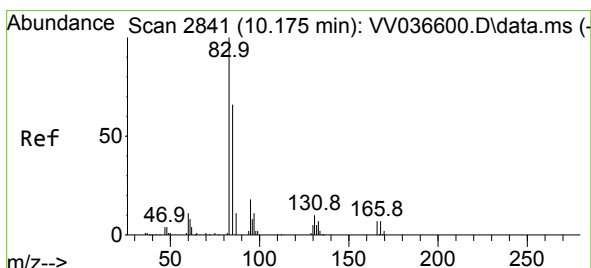
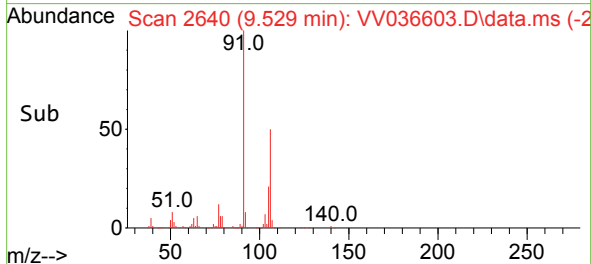
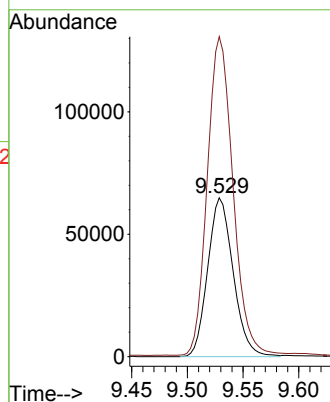
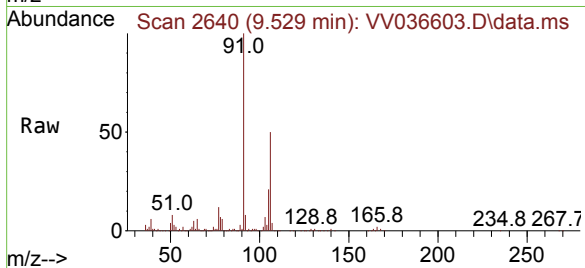
ClientSampleId :

Tgt Ion:106 Resp: 103337

Ion Ratio Lower Upper

106 100

91 201.3 147.3 273.6



#57

1,1,2,2-Tetrachloroethane

Concen: 0.420 ug/L

RT: 10.210 min Scan# 2852

Delta R.T. 0.035 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

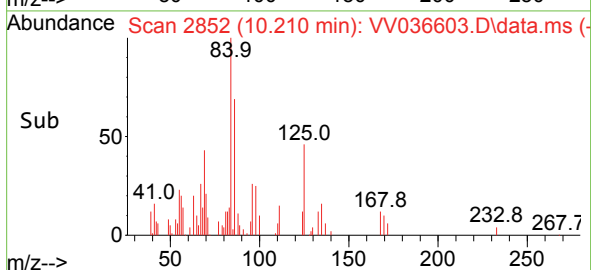
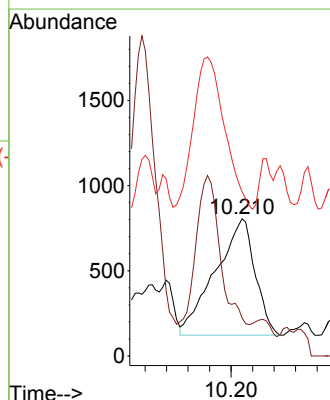
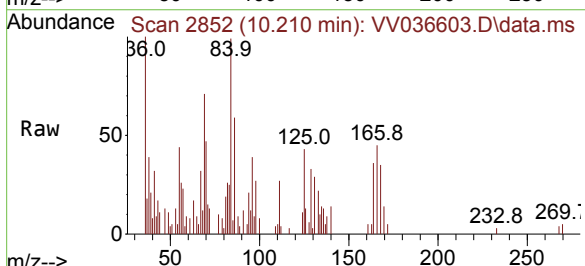
Tgt Ion: 83 Resp: 1755

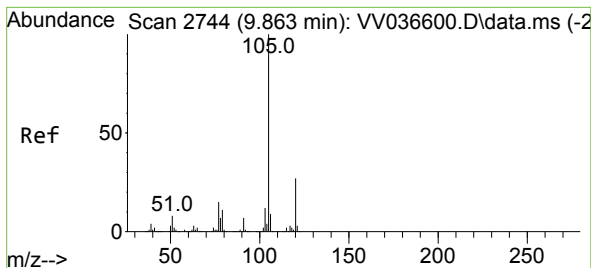
Ion Ratio Lower Upper

83 100

85 27.7 45.0 83.6#

131 119.6 8.1 12.1#





#60

Isopropylbenzene

Concen: 0.881 ug/L

RT: 9.908 min Scan# 21

Delta R.T. 0.045 min

Lab File: VV036603.D

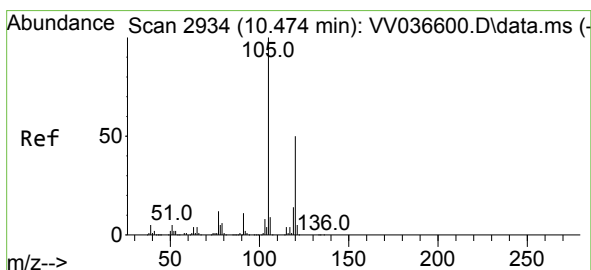
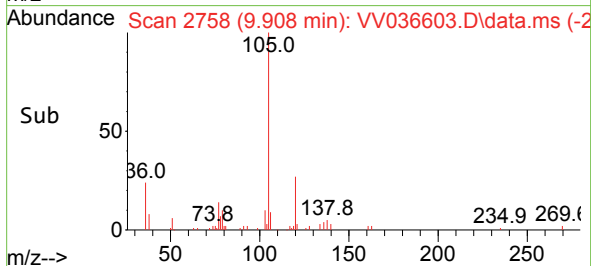
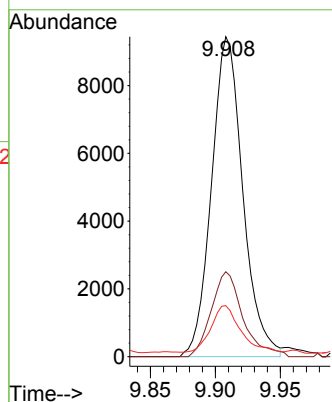
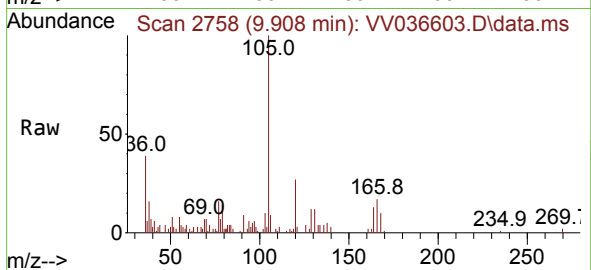
Acq: 18 Jul 2024 15:36

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:105	Resp:	15809
Ion Ratio	Lower	Upper
105	100	
120	26.7	21.8 32.6
77	14.6	12.0 18.0



#62

1,3,5-Trimethylbenzene

Concen: 3.412 ug/L

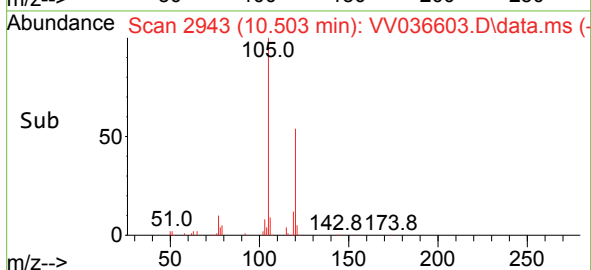
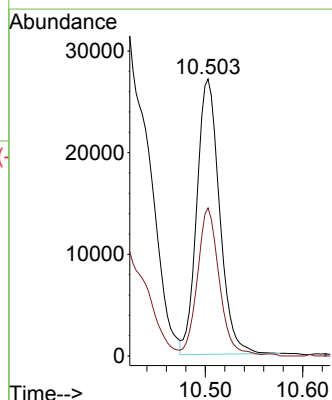
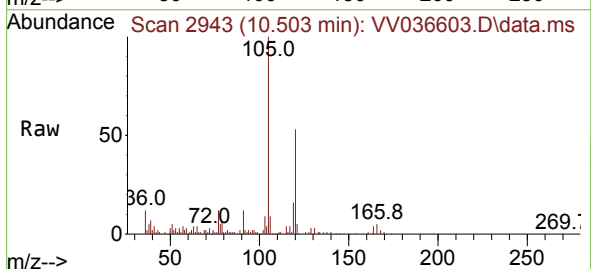
RT: 10.503 min Scan# 2943

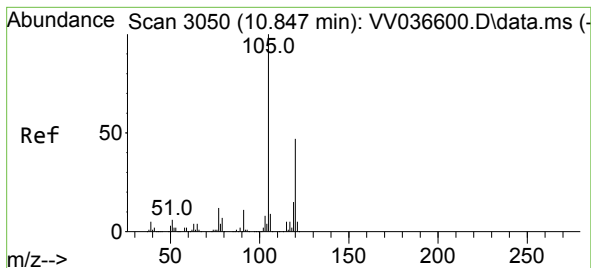
Delta R.T. 0.029 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Tgt Ion:105	Resp:	43857
Ion Ratio	Lower	Upper
105	100	
120	51.9	39.9 59.9





#63

1,2,4-Trimethylbenzene

Concen: 8.694 ug/L

RT: 10.873 min Scan# 3058

Delta R.T. 0.026 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Instrument :

MSVOA_V

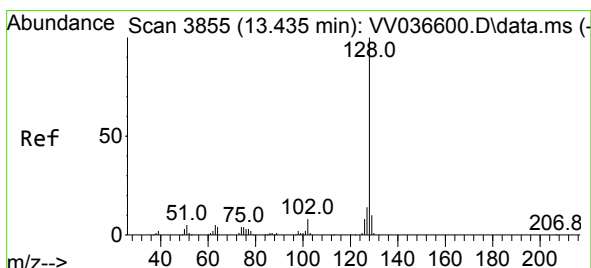
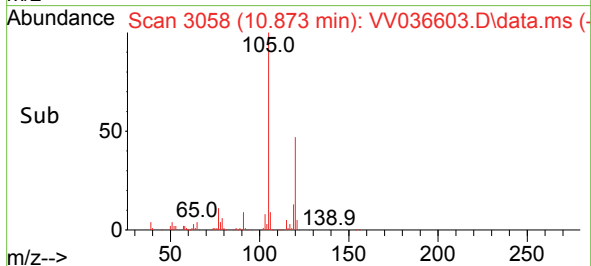
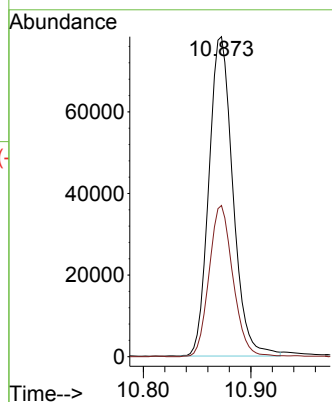
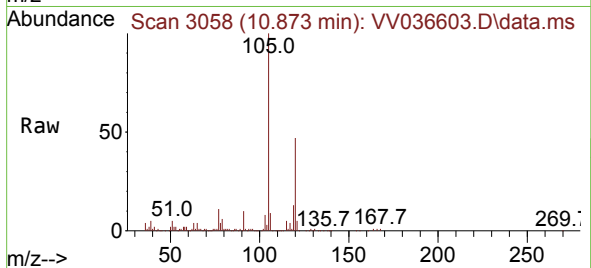
ClientSampleId :

Tgt Ion:105 Resp: 121596

Ion Ratio Lower Upper

105 100

120 46.9 37.0 55.4



#71

Naphthalene

Concen: 4.201 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.009 min

Lab File: VV036603.D

Acq: 18 Jul 2024 15:36

Tgt Ion:128 Resp: 41224

Ion Ratio Lower Upper

128 100

127 12.9 10.8 16.2

129 12.3 8.6 13.0

