

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW051523\
 Data File : VW031021.D
 Acq On : 15 May 2023 10:59
 Operator : SY/MD
 Sample : 02790-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 15 12:16:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR042823WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 06 01:44:36 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	126894	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	125900	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	62698	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	62124	5.942	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	118.800%
7) Chloroethane-d5	1.539	69	47622	5.584	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	111.600%
11) 1,1-Dichloroethene-d2	2.066	65	25461	4.602	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.000%
20) 2-Butanone-d5	3.815	46	145561	78.514	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	157.020%#
24) Chloroform-d	4.262	84	110913	5.338	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.800%
26) 1,2-Dichloroethane-d4	4.953	65	59010	5.587	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.800%
32) Benzene-d6	4.970	84	198541	5.380	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.600%
36) 1,2-Dichloropropane-d6	6.002	67	60871	5.673	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.400%
41) Toluene-d8	7.252	98	172717	4.915	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.200%
43) trans-1,3-Dichloroprop...	7.561	79	21135	5.254	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	105.000%
46) 2-Hexanone-d5	8.034	63	76750	54.459	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.920%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	40987	5.270	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.400%
66) 1,2-Dichlorobenzene-d4	11.567	152	63600	5.442	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.221	50	1460	0.124	ug/L #	75
5) Vinyl chloride	1.285	62	1555623	157.993	ug/L	100
6) Bromomethane	1.494	94	449	0.096	ug/L	93
8) Chloroethane	1.555	64	27868	4.650	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.076	101	1807	0.195	ug/L #	61
12) 1,1-Dichloroethene	2.076	96	191730	22.451	ug/L #	65
13) Acetone	2.143	43	4468	2.821	ug/L	98
18) trans-1,2-Dichloroethene	2.703	96	246624	31.617	ug/L	97
19) 1,1-Dichloroethane	3.124	63	7604	0.505	ug/L	90
22) cis-1,2-Dichloroethene	3.825	96	12110962	1471.539	ug/L	93
29) 1,1,1-Trichloroethane	4.523	97	32703	2.067	ug/L	99
31) Carbon tetrachloride	4.529	117	4101	0.289	ug/L	100
35) Methylcyclohexane	5.867	83	694025	53.050	ug/L #	1
37) 1,2-Dichloropropane	6.005	63	8346	1.111	ug/L #	88
40) 4-Methyl-2-pentanone	7.178	43	3567	0.916	ug/L #	68
42) Toluene	7.323	91	159252	4.671	ug/L	100
44) trans-1,3-Dichloropropene	7.568	75	1349	0.141	ug/L #	56
47) Tetrachloroethene	7.918	164	3109	0.386	ug/L	81
52) Ethylbenzene	8.957	91	2003	0.054	ug/L	98

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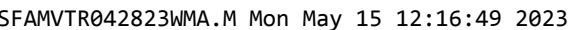
Instrument :
MSVOA_V
ClientSampleId :

Quant Time: May 15 12:16:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR042823WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Sat May 06 01:44:36 2023
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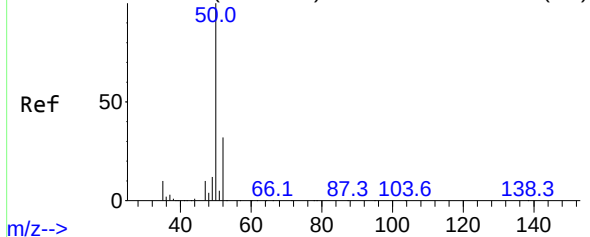
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.082	106	3181	0.214	ug/L	94
54) o-Xylene	9.493	106	1389	0.098	ug/L	69
71) Naphthalene	13.455	128	1498	0.099	ug/L #	79

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

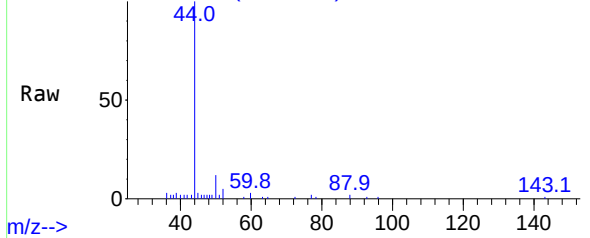
Quant Time: May 15 12:16:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR042823WMA.M
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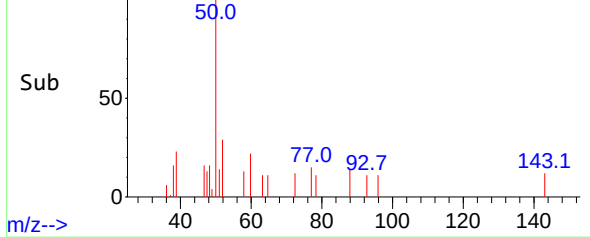
Abundance Scan 55 (1.217 min): VV031010.D\data.ms (-46)



Abundance Scan 56 (1.221 min): VV031021.D\data.ms



Abundance Scan 56 (1.221 min): VV031021.D\data.ms (-1) (



#3

Chloromethane

Concen: 0.124 ug/L

RT: 1.221 min Scan# 50

Delta R.T. 0.003 min

Lab File: VV031021.D

Acq: 15 May 2023 10:59

Instrument :

MSVOA_V

ClientSampleId :

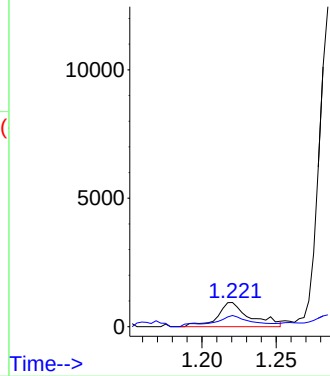
Tgt Ion: 50 Resp: 1460

Ion Ratio Lower Upper

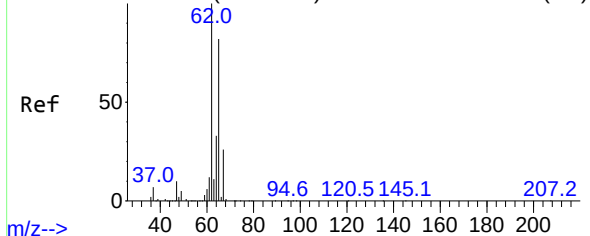
50 100

52 46.4 22.8 42.4#

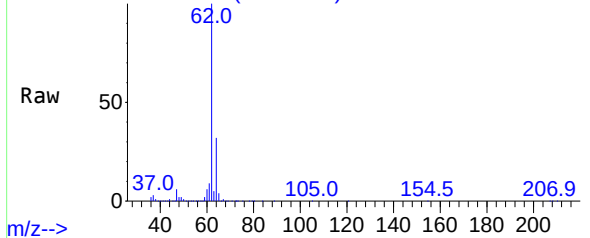
Abundance



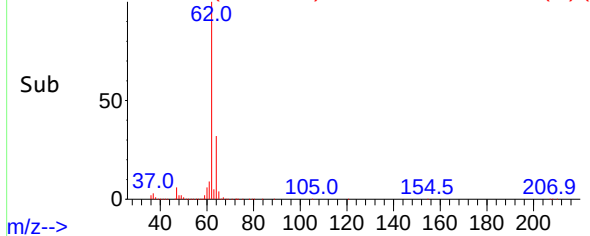
Abundance Scan 76 (1.285 min): VV031010.D\data.ms (-64)



Abundance Scan 76 (1.285 min): VV031021.D\data.ms



Abundance Scan 76 (1.285 min): VV031021.D\data.ms (-1) (



#5

Vinyl chloride

Concen: 157.993 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.000 min

Lab File: VV031021.D

Acq: 15 May 2023 10:59

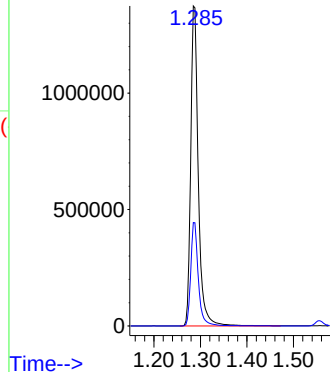
Tgt Ion: 62 Resp: 1555623

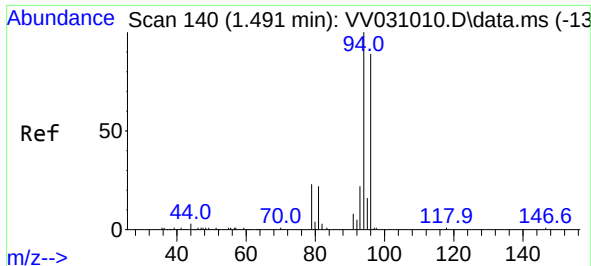
Ion Ratio Lower Upper

62 100

64 32.3 22.8 42.4

Abundance

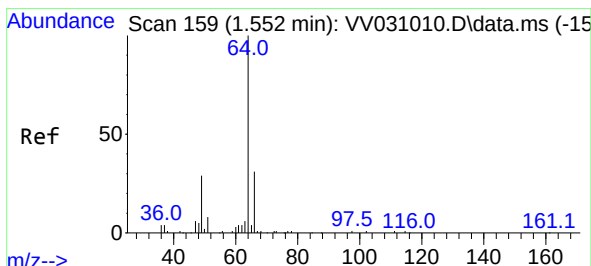
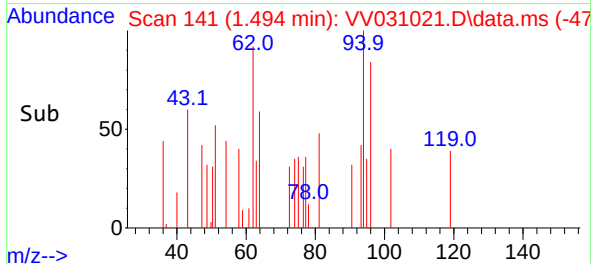
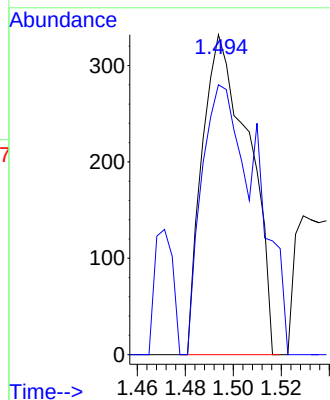
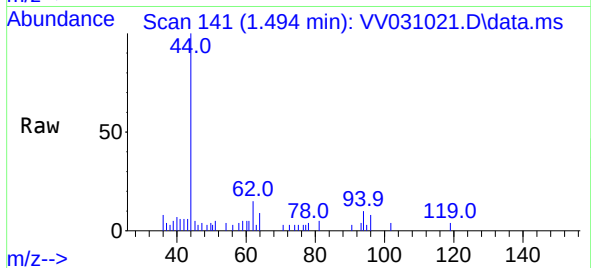




#6
Bromomethane
Concen: 0.096 ug/L
RT: 1.494 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

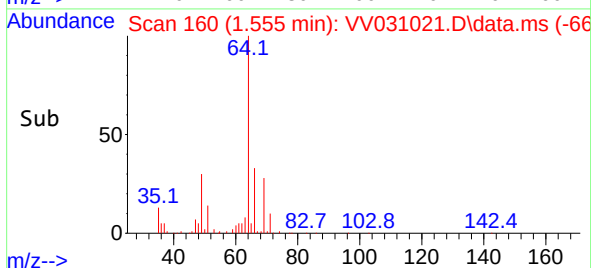
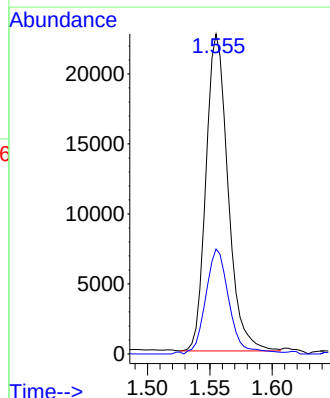
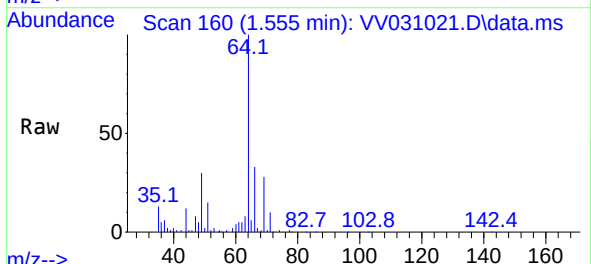
Instrument :
MSVOA_V
ClientSampleId :

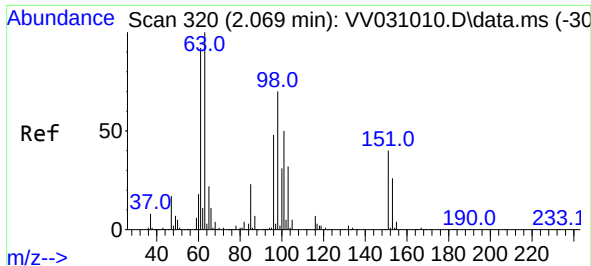
Tgt Ion: 94 Resp: 449
Ion Ratio Lower Upper
94 100
96 84.3 63.4 117.8



#8
Chloroethane
Concen: 4.650 ug/L
RT: 1.555 min Scan# 160
Delta R.T. 0.003 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

Tgt Ion: 64 Resp: 27868
Ion Ratio Lower Upper
64 100
66 32.8 22.1 41.1

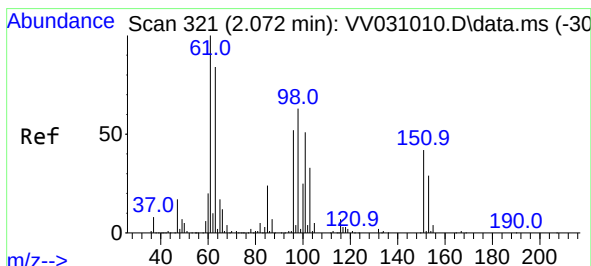
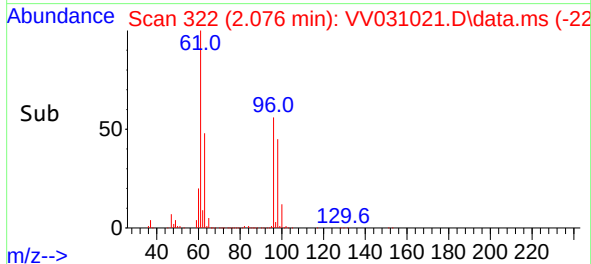
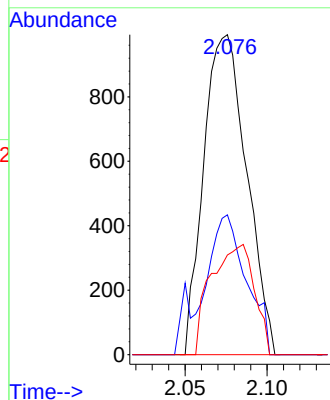
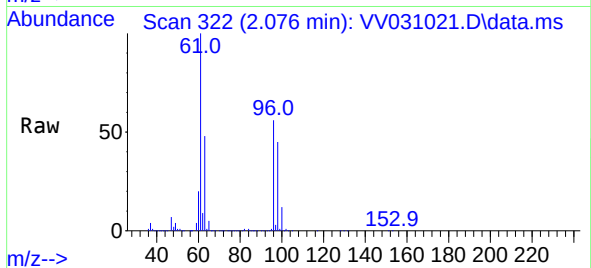




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.195 ug/L
RT: 2.076 min Scan# 311
Delta R.T. 0.007 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

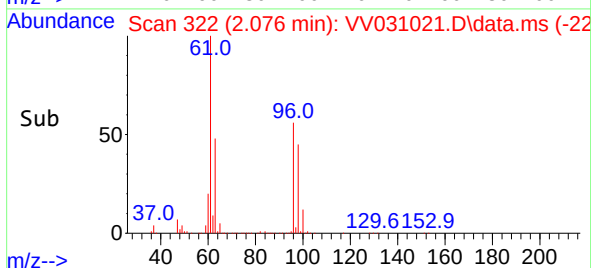
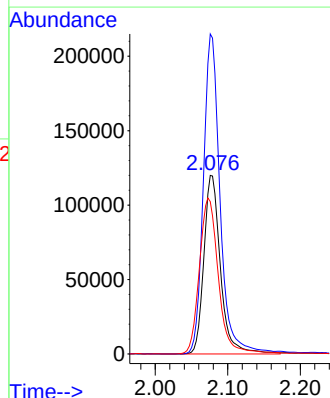
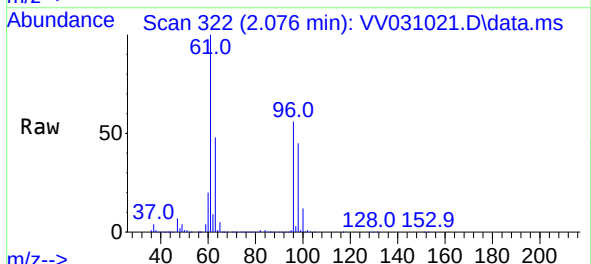
Instrument :
MSVOA_V
ClientSampleId :

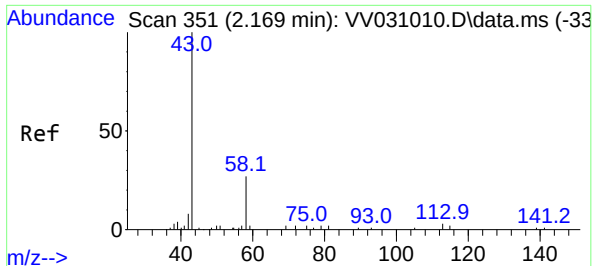
Tgt Ion:101 Resp: 1807
Ion Ratio Lower Upper
101 100
85 38.0 38.7 58.1#
151 34.6 65.1 97.7#



#12
1,1-Dichloroethene
Concen: 22.451 ug/L
RT: 2.076 min Scan# 322
Delta R.T. 0.003 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

Tgt Ion: 96 Resp: 191730
Ion Ratio Lower Upper
96 100
61 179.1 135.6 251.8
63 85.3 121.1 224.9#

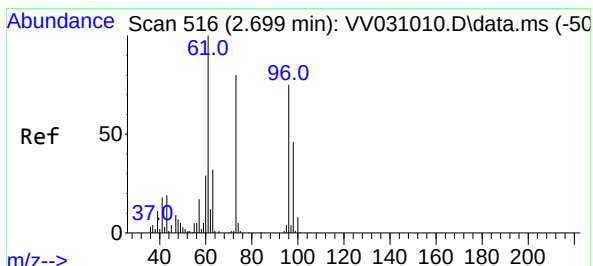
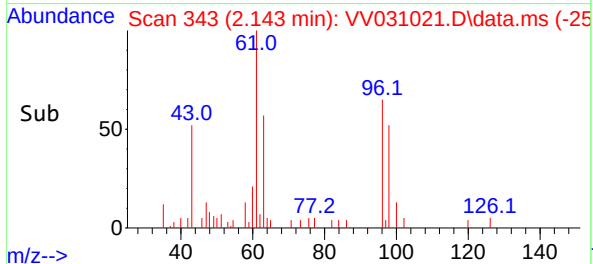
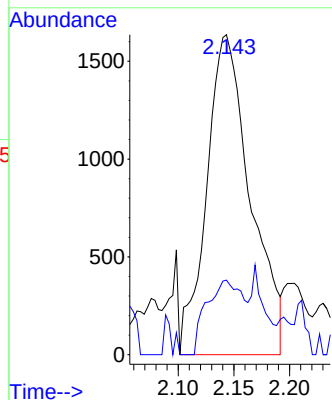
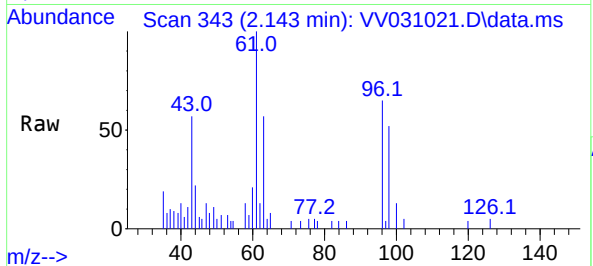




#13
Acetone
Concen: 2.821 ug/L
RT: 2.143 min Scan# 34
Delta R.T. -0.016 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

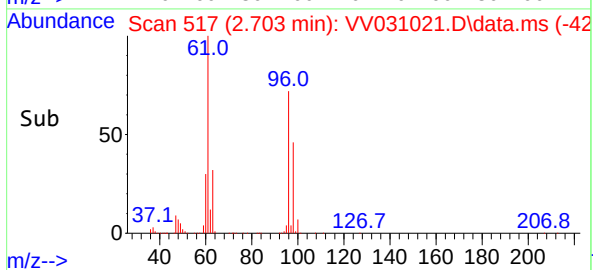
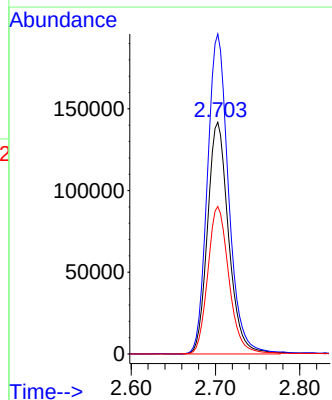
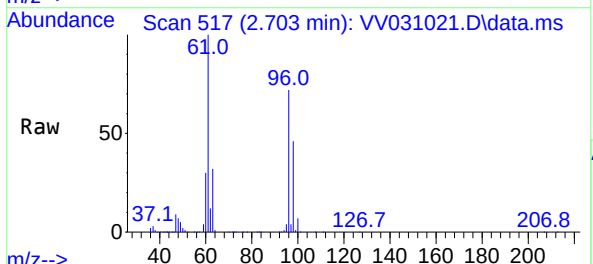
Instrument :
MSVOA_V
ClientSampleId :

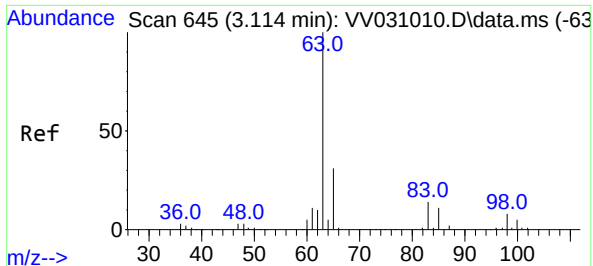
Tgt Ion: 43 Resp: 4468
Ion Ratio Lower Upper
43 100
58 19.4 0.0 37.0



#18
trans-1,2-Dichloroethene
Concen: 31.617 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

Tgt Ion: 96 Resp: 246624
Ion Ratio Lower Upper
96 100
61 138.1 98.9 183.7
98 63.6 46.0 85.4





#19

1,1-Dichloroethane

Concen: 0.505 ug/L

RT: 3.124 min Scan# 64

Delta R.T. 0.007 min

Lab File: VV031021.D

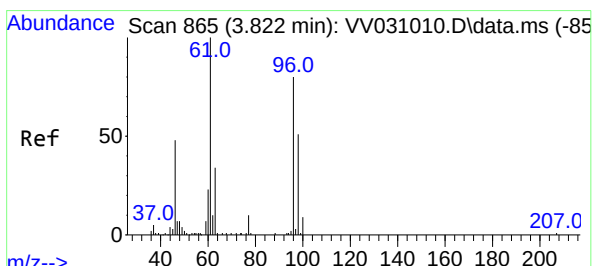
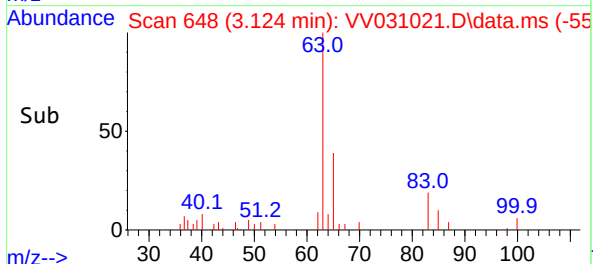
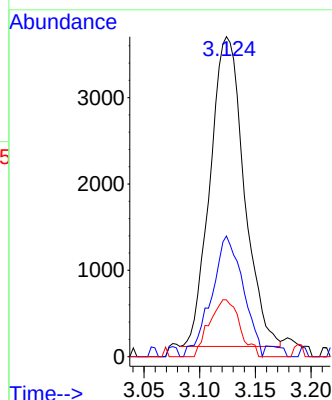
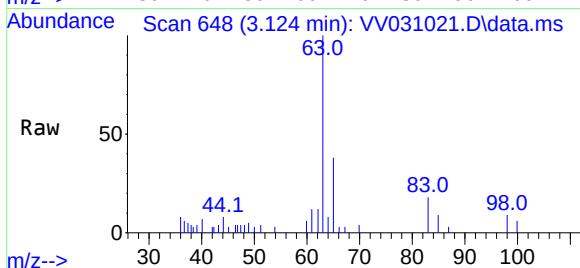
Acq: 15 May 2023 10:59

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63	Resp: 7604
Ion Ratio	Lower Upper
63 100	
65 37.7	21.8 40.6
83 17.8	10.2 19.0



#22

cis-1,2-Dichloroethene

Concen: 1471.539 ug/L

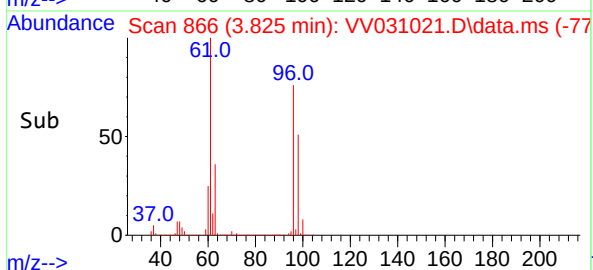
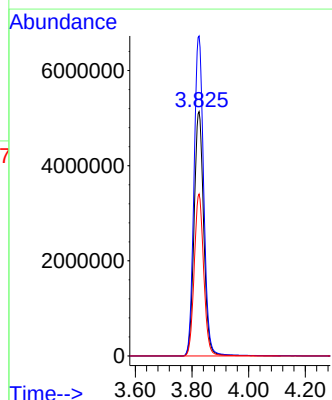
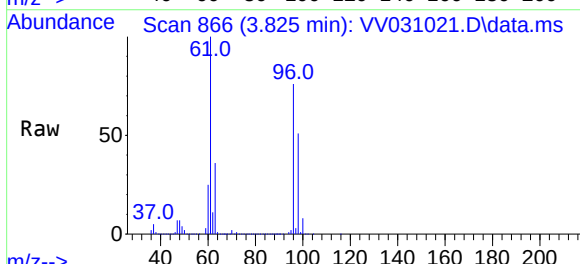
RT: 3.825 min Scan# 866

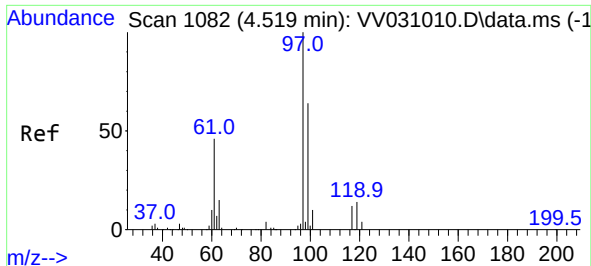
Delta R.T. 0.000 min

Lab File: VV031021.D

Acq: 15 May 2023 10:59

Tgt Ion: 96		Resp:12110962	
Ion	Ratio	Lower	Upper
96	100		
61	130.9	86.0	159.6
98	66.2	43.2	80.2





#29

1,1,1-Trichloroethane

Concen: 2.067 ug/L

RT: 4.523 min Scan# 1082

Delta R.T. 0.003 min

Lab File: VV031021.D

Acq: 15 May 2023 10:59

Instrument :

MSVOA_V

ClientSampleId :

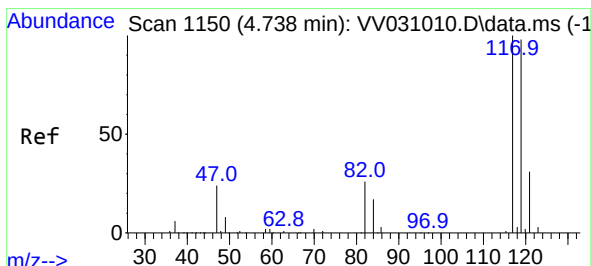
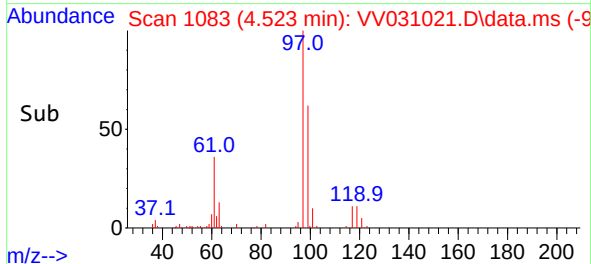
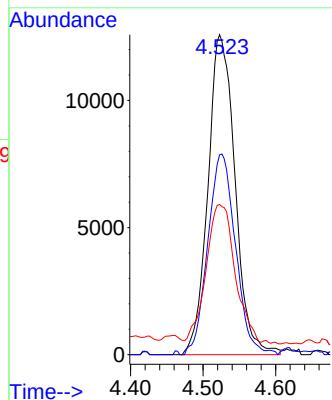
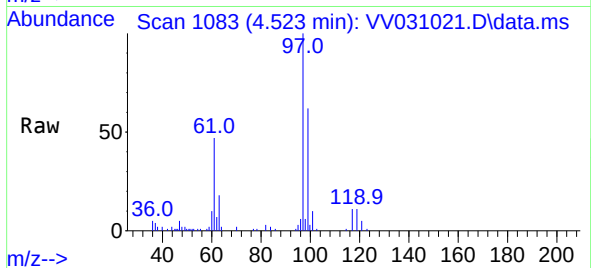
Tgt Ion: 97 Resp: 32703

Ion Ratio Lower Upper

97 100

99 63.8 51.4 77.2

61 45.6 37.4 56.0



#31

Carbon tetrachloride

Concen: 0.289 ug/L

RT: 4.529 min Scan# 1085

Delta R.T. -0.215 min

Lab File: VV031021.D

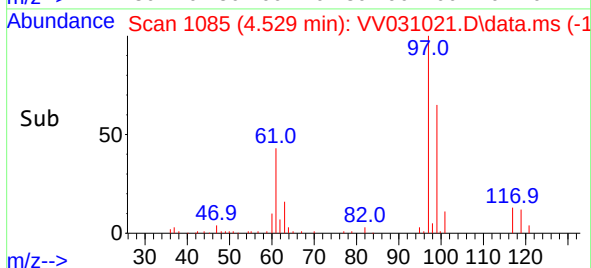
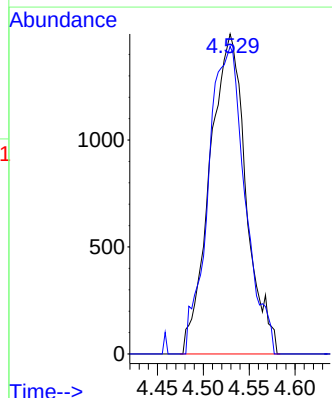
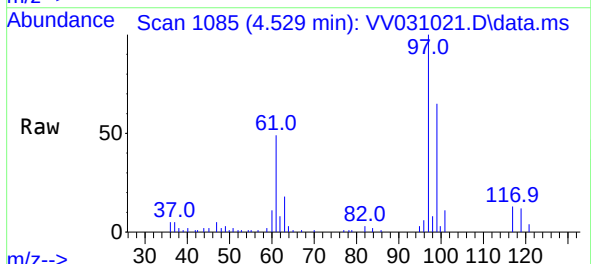
Acq: 15 May 2023 10:59

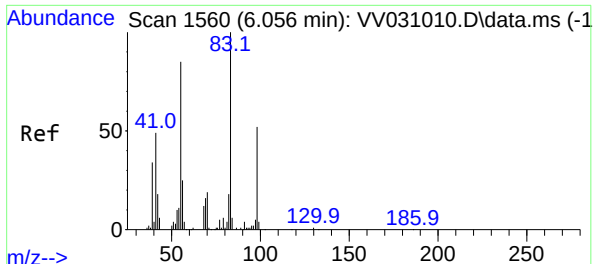
Tgt Ion: 117 Resp: 4101

Ion Ratio Lower Upper

117 100

119 97.7 78.4 117.6

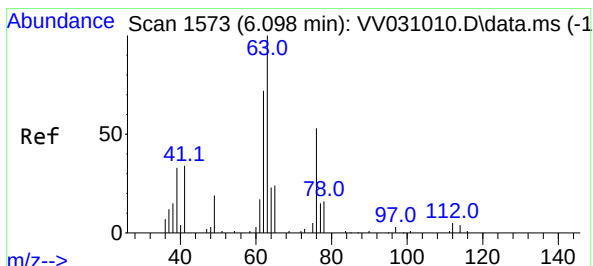
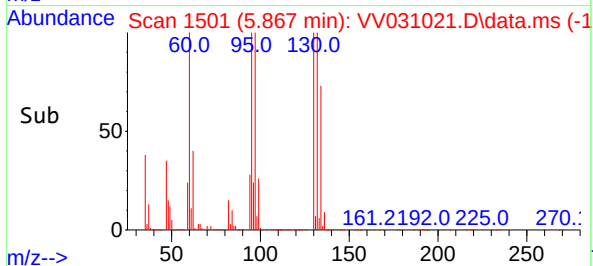
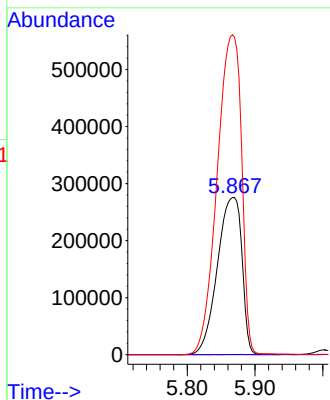
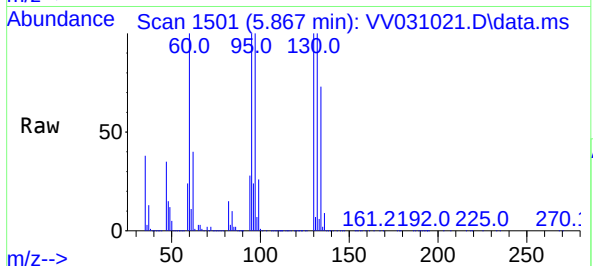




#35
Methylcyclohexane
Concen: 53.050 ug/L
RT: 5.867 min Scan# 11
Delta R.T. -0.189 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

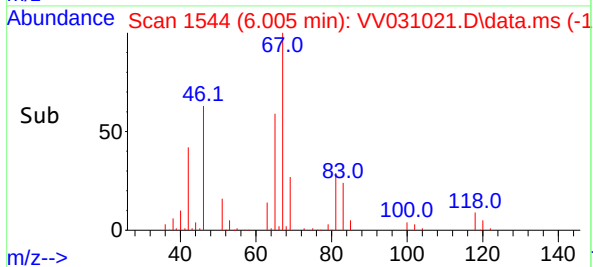
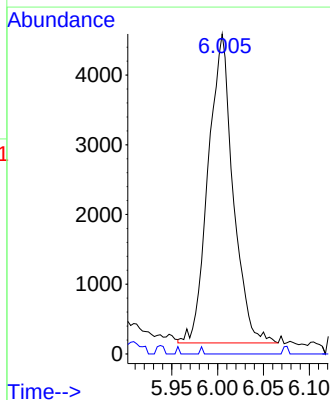
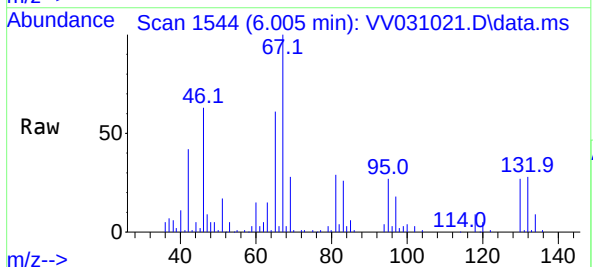
Instrument :
MSVOA_V
ClientSampleId :

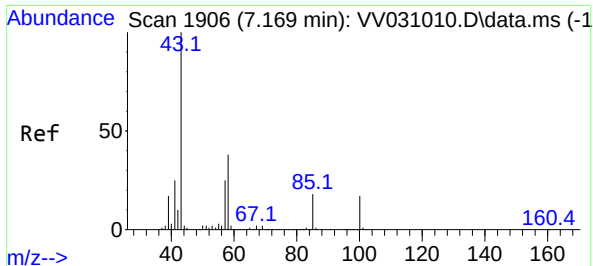
Tgt Ion: 83 Resp: 694025
Ion Ratio Lower Upper
83 100
55 0.1 62.9 94.3#
98 202.9 40.5 60.7#



#37
1,2-Dichloropropane
Concen: 1.111 ug/L
RT: 6.005 min Scan# 1544
Delta R.T. -0.096 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

Tgt Ion: 63 Resp: 8346
Ion Ratio Lower Upper
63 100
112 0.8 3.8 5.8#





#40

4-Methyl-2-pentanone

Concen: 0.916 ug/L

RT: 7.178 min Scan# 1906

Delta R.T. 0.010 min

Lab File: VV031021.D

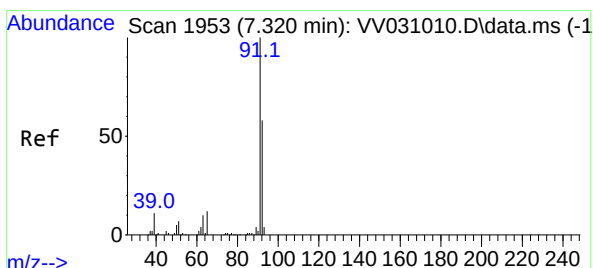
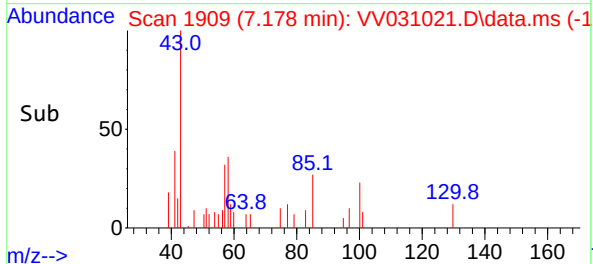
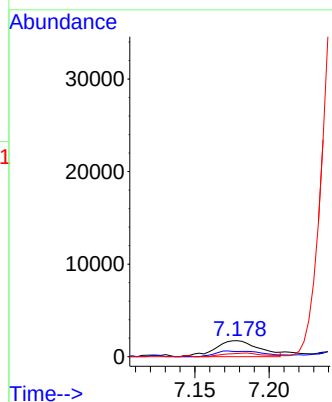
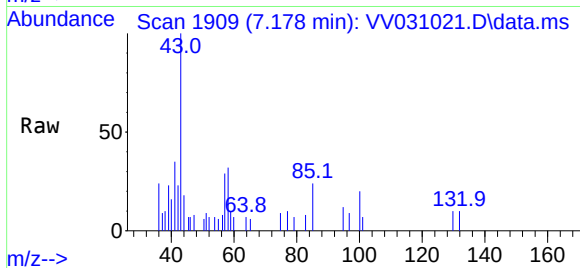
Acq: 15 May 2023 10:59

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	43	Resp:	3567
Ion	Ratio	Lower	Upper
43	100		
58	18.1	28.3	42.5#
100	0.0	11.8	17.8#



#42

Toluene

Concen: 4.671 ug/L

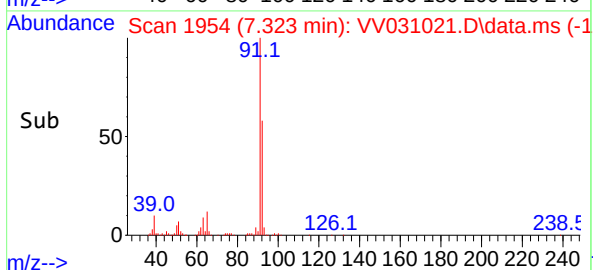
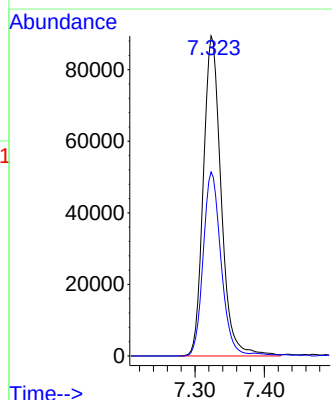
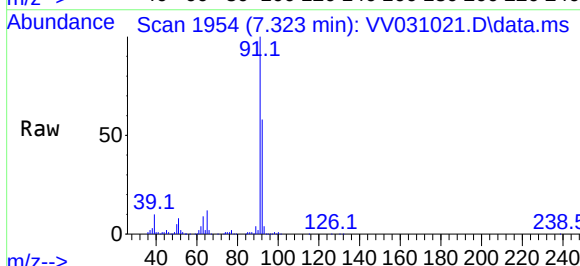
RT: 7.323 min Scan# 1954

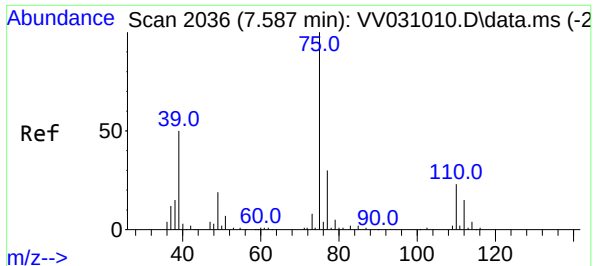
Delta R.T. 0.000 min

Lab File: VV031021.D

Acq: 15 May 2023 10:59

Tgt Ion:	91	Resp:	159252
Ion	Ratio	Lower	Upper
91	100		
92	57.5	40.5	75.1

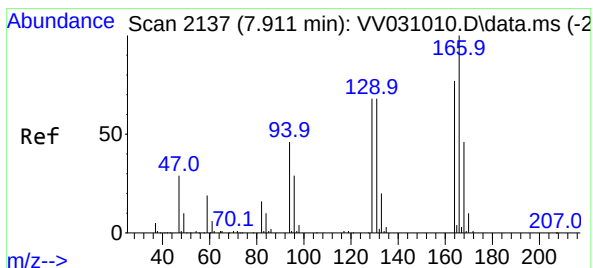
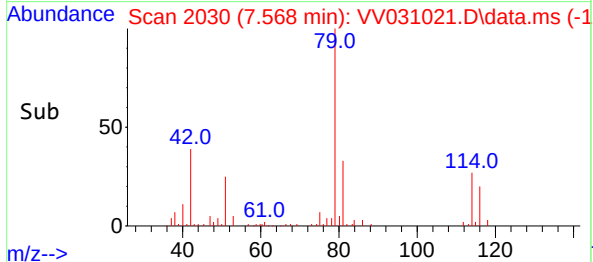
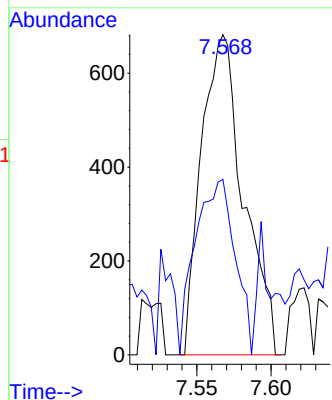
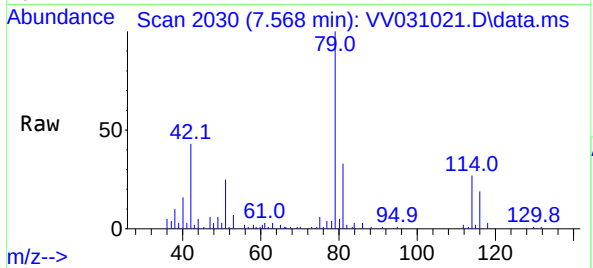




#44
trans-1,3-Dichloropropene
Concen: 0.141 ug/L
RT: 7.568 min Scan# 2036
Delta R.T. -0.022 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

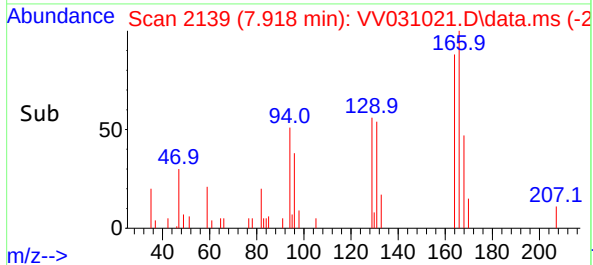
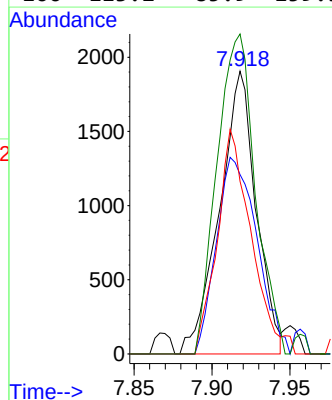
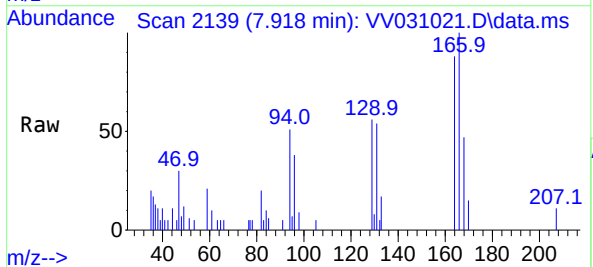
Instrument :
MSVOA_V
ClientSampleId :

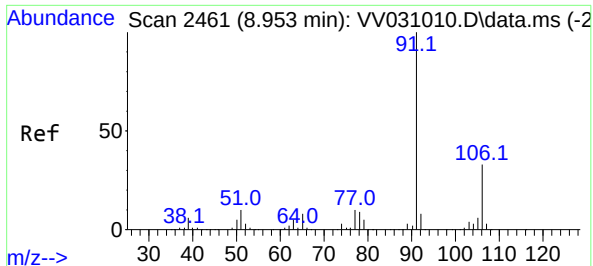
Tgt Ion: 75 Resp: 1349
Ion Ratio Lower Upper
75 100
77 54.8 21.6 40.0#



#47
Tetrachloroethene
Concen: 0.386 ug/L
RT: 7.918 min Scan# 2139
Delta R.T. 0.007 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

Tgt Ion: 164 Resp: 3109
Ion Ratio Lower Upper
164 100
129 63.4 60.5 112.3
131 61.1 60.8 112.8
166 113.2 85.9 159.5

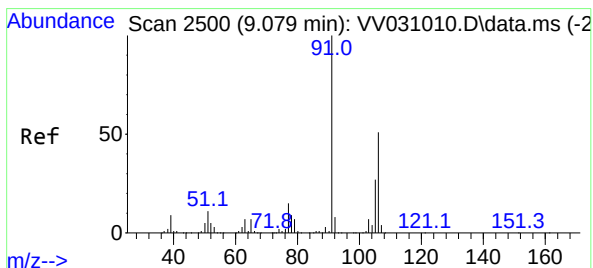
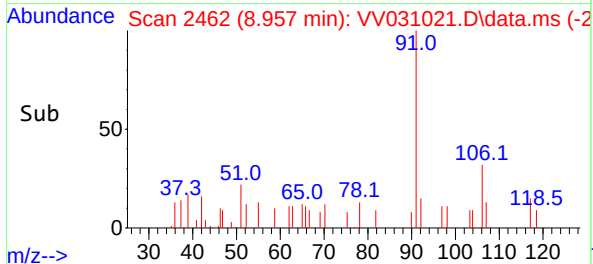
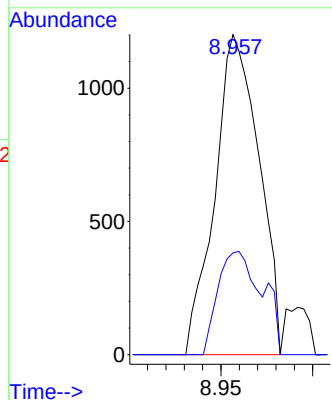
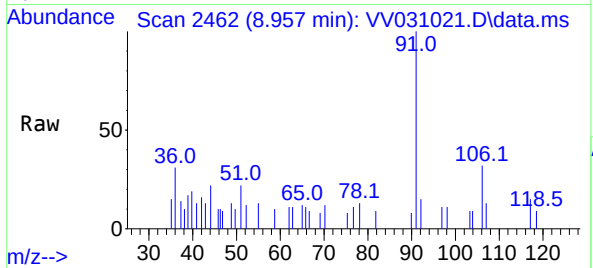




#52
Ethylbenzene
Concen: 0.054 ug/L
RT: 8.957 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

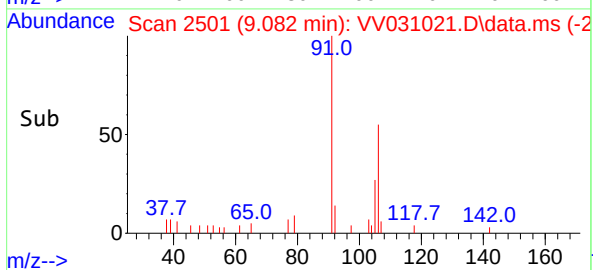
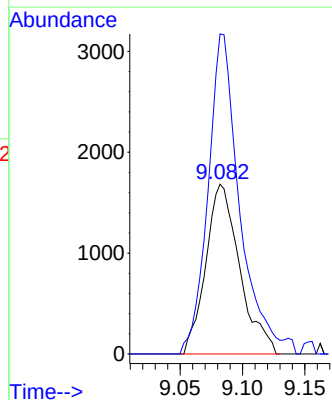
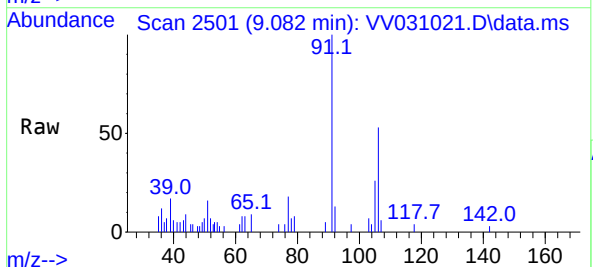
Instrument :
MSVOA_V
ClientSampleId :

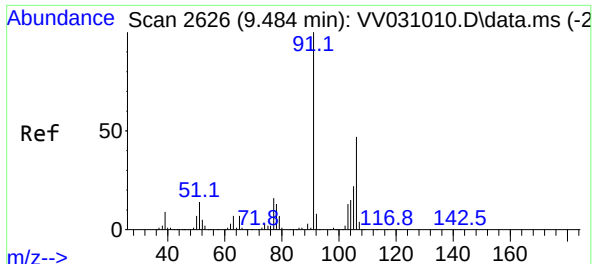
Tgt Ion: 91 Resp: 2003
Ion Ratio Lower Upper
91 100
106 31.8 21.4 39.8



#53
m,p-Xylene
Concen: 0.214 ug/L
RT: 9.082 min Scan# 2501
Delta R.T. 0.003 min
Lab File: VV031021.D
Acq: 15 May 2023 10:59

Tgt Ion: 106 Resp: 3181
Ion Ratio Lower Upper
106 100
91 188.4 138.7 257.5





#54

o-Xylene

Concen: 0.098 ug/L

RT: 9.493 min Scan# 2

Delta R.T. 0.010 min

Lab File: VV031021.D

Acq: 15 May 2023 10:59

Instrument :

MSVOA_V

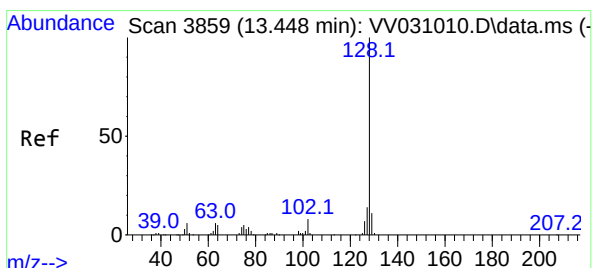
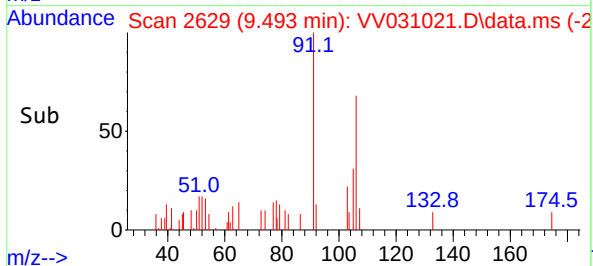
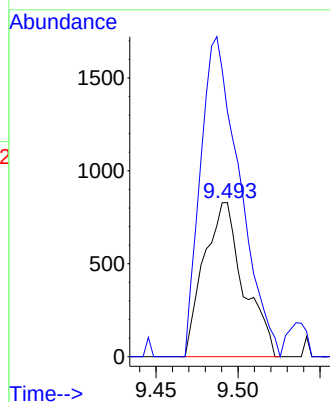
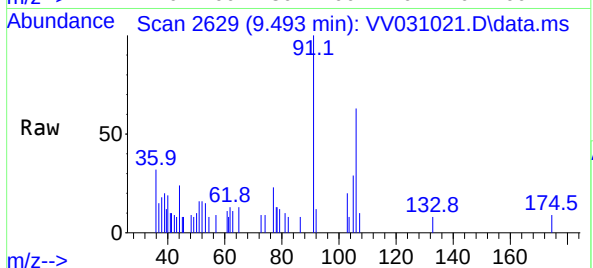
ClientSampleId :

Tgt Ion:106 Resp: 1389

Ion Ratio Lower Upper

106 100

91 159.1 145.1 269.5



#71

Naphthalene

Concen: 0.099 ug/L

RT: 13.455 min Scan# 3861

Delta R.T. 0.007 min

Lab File: VV031021.D

Acq: 15 May 2023 10:59

Tgt Ion:128 Resp: 1498

Ion Ratio Lower Upper

128 100

129 0.0 8.6 13.0#

127 7.3 10.6 16.0#

