

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102023\
 Data File : VW032547.D
 Acq On : 21 Oct 2023 01:08
 Operator : SY/MD
 Sample : 04993-16
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 23 02:58:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Oct 21 02:44:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	76009	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	86735	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	40685	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	24010	3.884	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.600%
7) Chloroethane-d5	1.532	69	24879	4.958	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.200%
11) 1,1-Dichloroethene-d2	2.060	65	10298	3.950	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.000%
20) 2-Butanone-d5	3.805	46	82836	52.972	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.940%
24) Chloroform-d	4.252	84	51153	4.691	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.800%
26) 1,2-Dichloroethane-d4	4.947	65	27207	5.267	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.400%
32) Benzene-d6	4.963	84	89545	3.509	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.200%
36) 1,2-Dichloropropane-d6	5.992	67	30531	3.611	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	72.200%
41) Toluene-d8	7.246	98	76532	3.279	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	65.600%#
43) trans-1,3-Dichloroprop...	7.561	79	10862	3.625	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.600%
46) 2-Hexanone-d5	8.027	63	72865	51.684	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.360%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	29527	4.992	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.800%
66) 1,2-Dichlorobenzene-d4	11.564	152	31498	4.172	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	1000	0.117	ug/L	85
5) Vinyl chloride	1.285	62	693	0.085	ug/L #	1
6) Bromomethane	1.490	94	399	0.081	ug/L	91
9) Trichlorofluoromethane	1.716	101	792	0.081	ug/L #	76
10) 1,1,2-Trichloro-1,2,2-...	2.066	101	781	0.132	ug/L #	28
12) 1,1-Dichloroethene	2.069	96	855	0.153	ug/L #	1
13) Acetone	2.137	43	2648	2.197	ug/L	69
14) Carbon disulfide	2.243	76	2852	0.146	ug/L #	94
15) Methyl Acetate	2.365	43	987	0.364	ug/L #	53
29) 1,1,1-Trichloroethane	4.516	97	1330	0.113	ug/L #	82
34) Trichloroethene	5.847	95	1324	0.159	ug/L	81
35) Methylcyclohexane	6.056	83	2011	0.156	ug/L #	59
37) 1,2-Dichloropropane	6.104	63	618	0.076	ug/L #	87
39) cis-1,3-Dichloropropene	6.969	75	964	0.083	ug/L #	54
42) Toluene	7.329	91	2688	0.083	ug/L	98
45) 1,1,2-Trichloroethane	7.908	97	22809	3.959	ug/L #	1
47) Tetrachloroethene	7.908	164	2419992	382.795	ug/L	98
49) Dibromochloromethane	7.908	129	2304572	384.231	ug/L #	8
51) Chlorobenzene	8.818	112	1742	0.083	ug/L #	84

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 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Oct 21 02:44:24 2023
 Response via : Initial Calibration

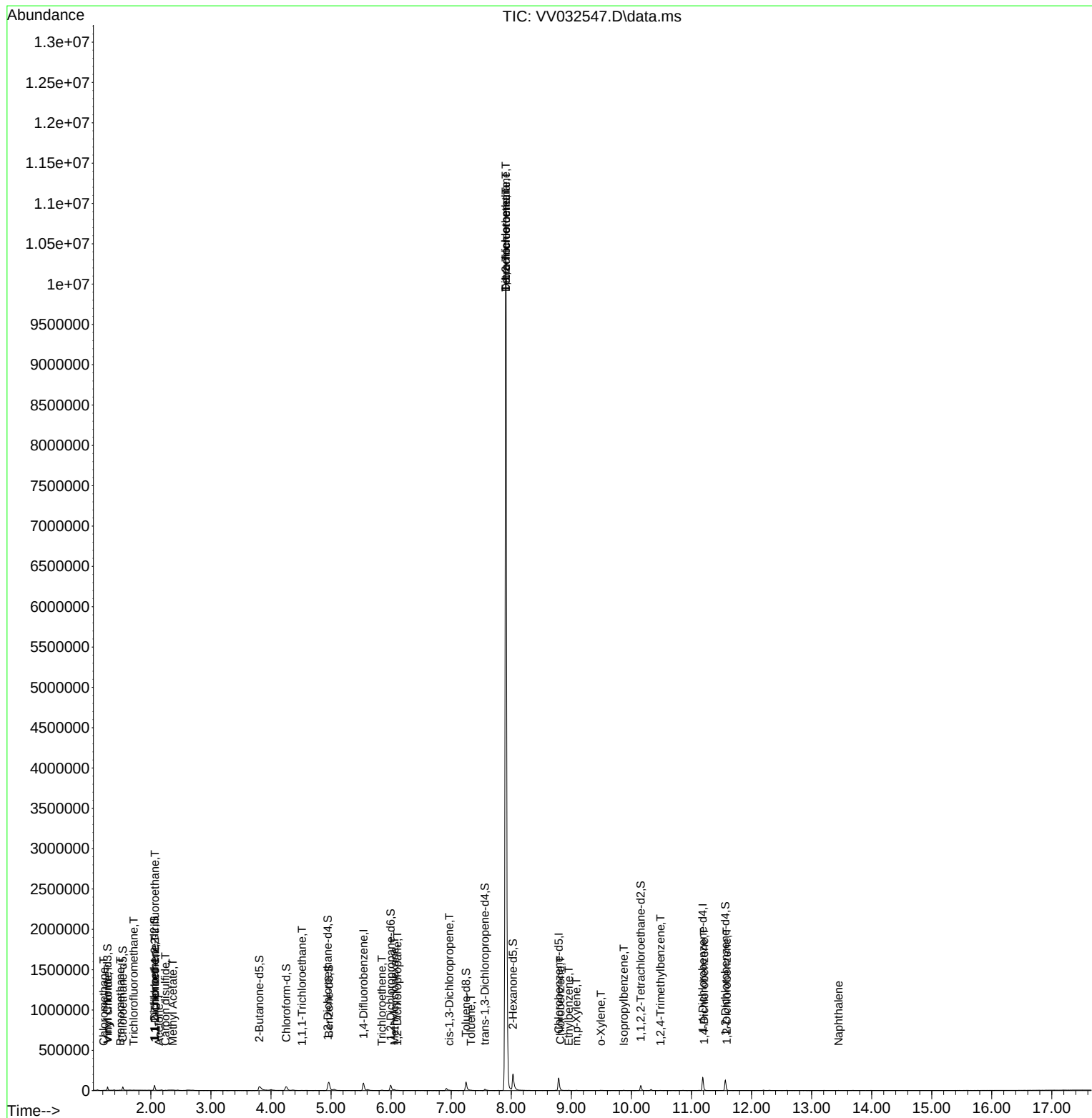
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	8.956	91	2593	0.072	ug/L	87
53) m,p-Xylene	9.085	106	945	0.070	ug/L	75
54) o-Xylene	9.490	106	871	0.067	ug/L	84
60) Isopropylbenzene	9.873	105	2137	0.068	ug/L	98
63) 1,2,4-Trimethylbenzene	10.484	105	1668	0.065	ug/L	95
65) 1,4-Dichlorobenzene	11.214	146	1221	0.081	ug/L	91
67) 1,2-Dichlorobenzene	11.586	146	1166	0.085	ug/L	89
71) Naphthalene	13.451	128	1075	0.064	ug/L #	79

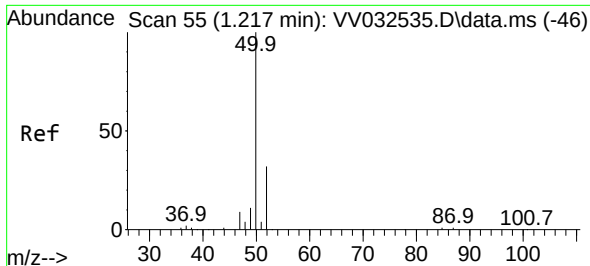
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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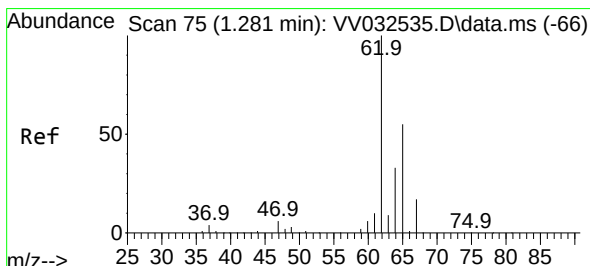
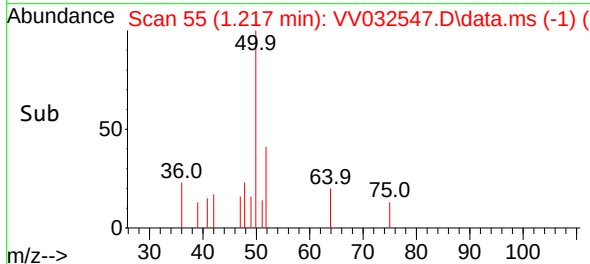
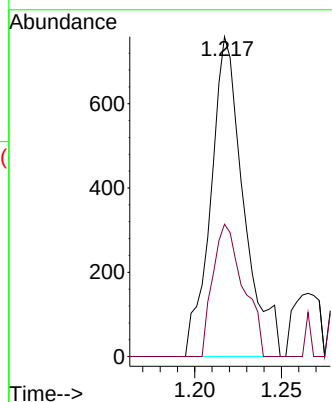
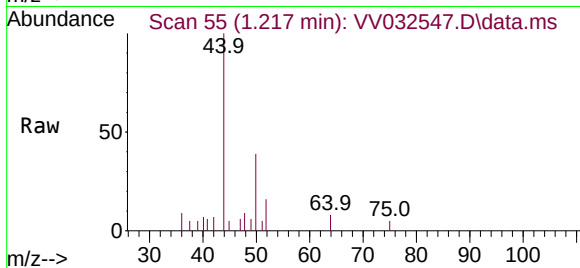




#3
Chloromethane
Concen: 0.117 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

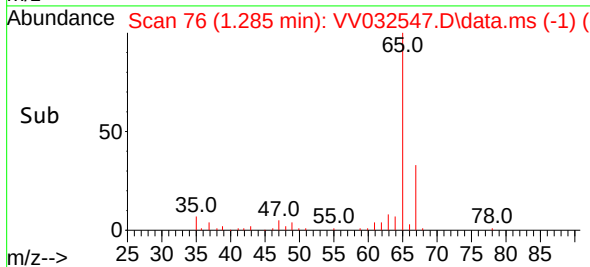
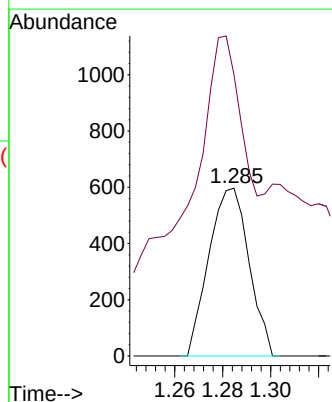
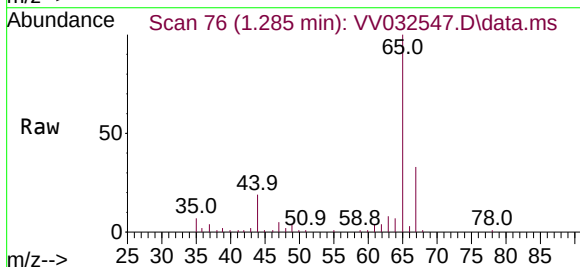
Instrument :
MSVOA_V
ClientSampleId :

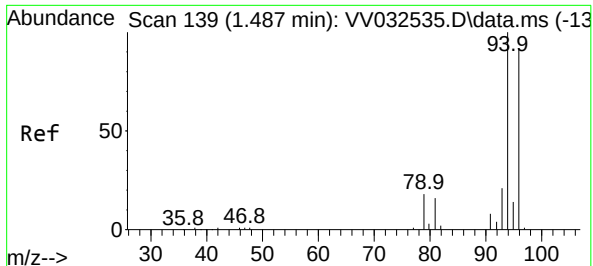
Tgt Ion: 50 Resp: 1000
Ion Ratio Lower Upper
50 100
52 41.4 23.0 42.6



#5
Vinyl chloride
Concen: 0.085 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.003 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion: 62 Resp: 693
Ion Ratio Lower Upper
62 100
64 167.7 23.1 42.9#

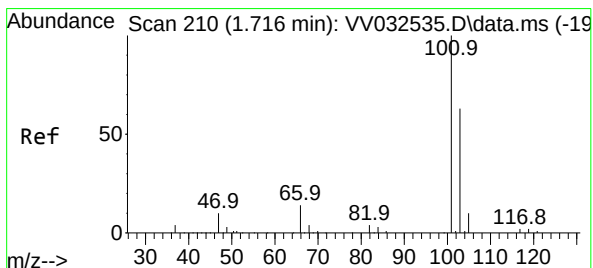
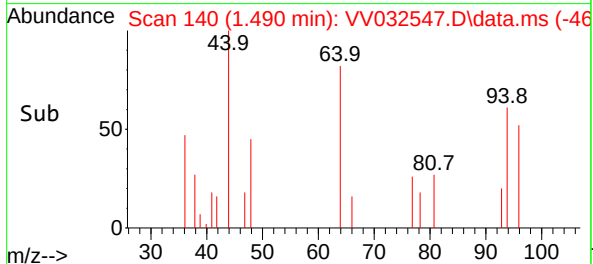
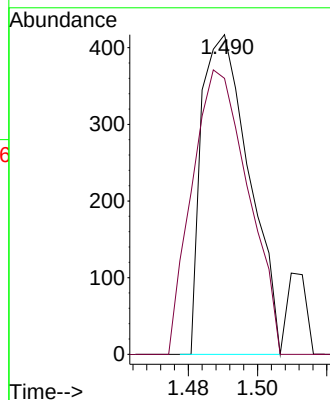
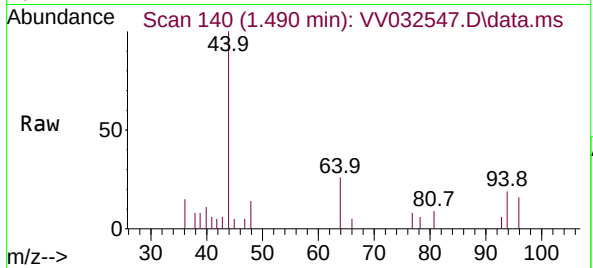




#6
Bromomethane
Concen: 0.081 ug/L
RT: 1.490 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

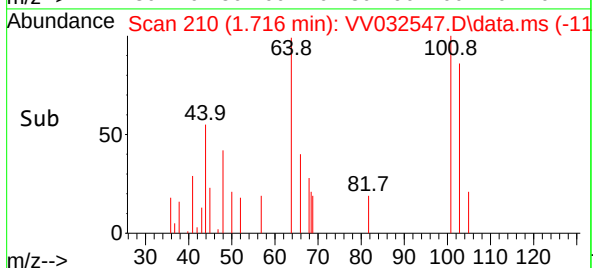
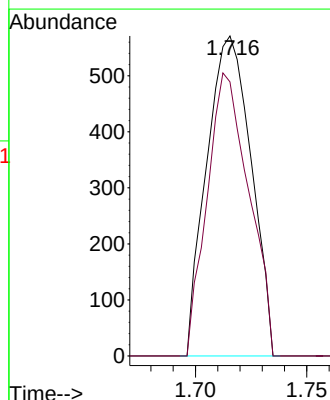
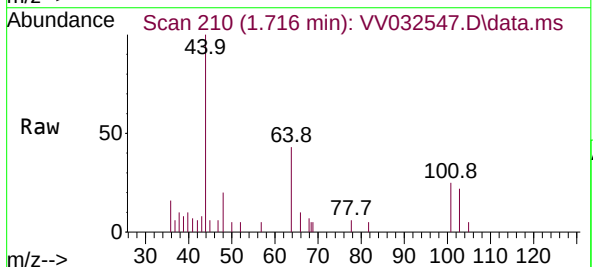
Instrument :
MSVOA_V
ClientSampleId :

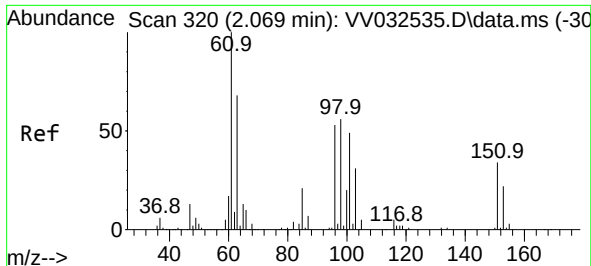
Tgt Ion: 94 Resp: 399
Ion Ratio Lower Upper
94 100
96 86.3 66.8 124.2



#9
Trichlorofluoromethane
Concen: 0.081 ug/L
RT: 1.716 min Scan# 210
Delta R.T. -0.000 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion:101 Resp: 792
Ion Ratio Lower Upper
101 100
103 83.3 51.4 77.2#

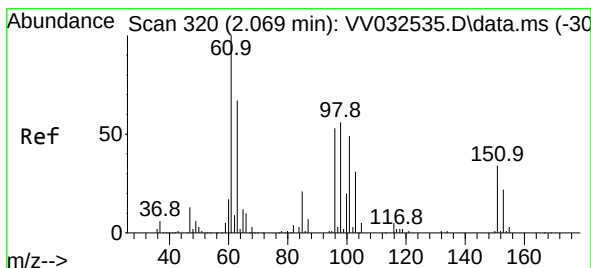
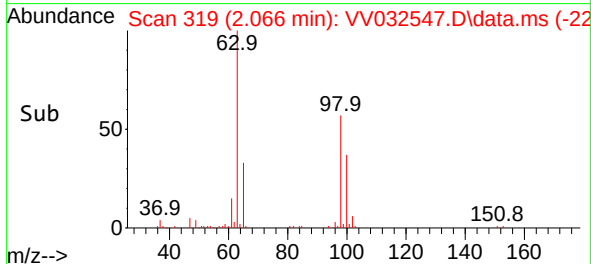
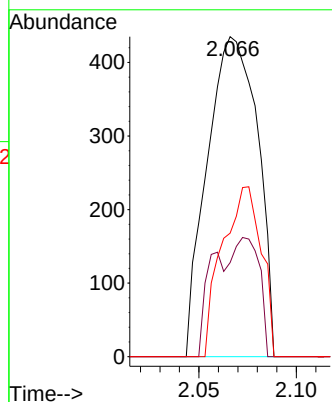
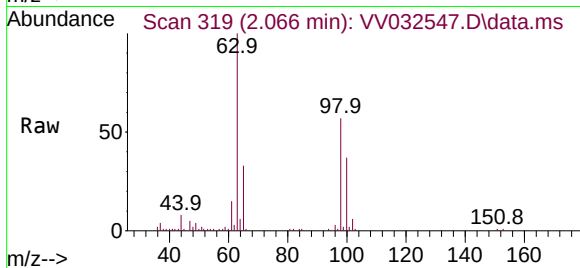




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.132 ug/L
 RT: 2.066 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VV032547.D
 Acq: 21 Oct 2023 01:08

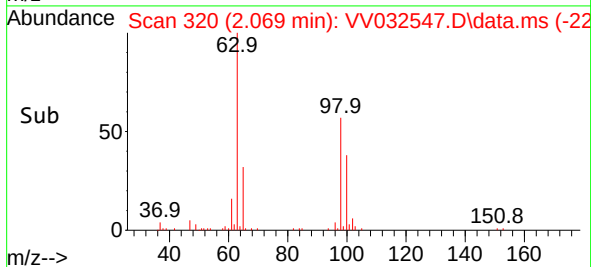
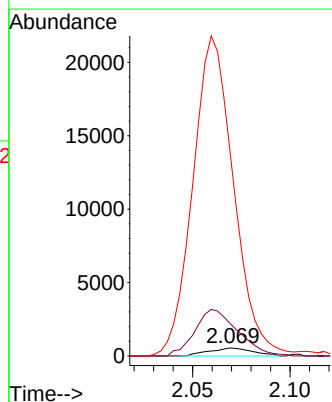
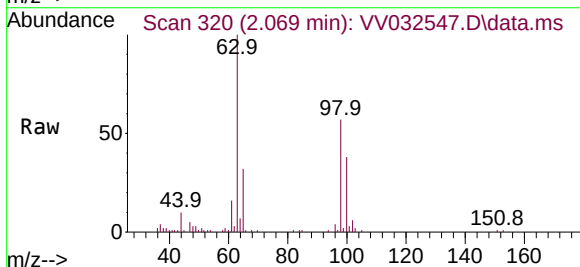
Instrument :
 MSVOA_V
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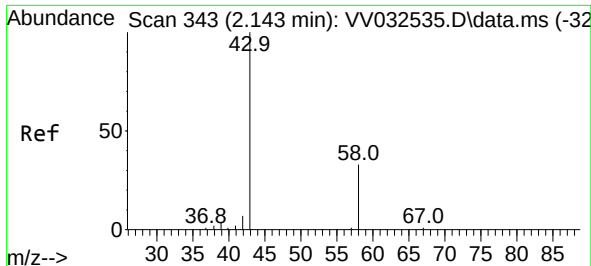
Tgt Ion:101 Resp: 781
 Ion Ratio Lower Upper
 101 100
 85 12.3 35.0 52.6#
 151 0.0 56.6 84.8#



#12
 1,1-Dichloroethene
 Concen: 0.153 ug/L
 RT: 2.069 min Scan# 320
 Delta R.T. -0.000 min
 Lab File: VV032547.D
 Acq: 21 Oct 2023 01:08

Tgt Ion: 96 Resp: 855
 Ion Ratio Lower Upper
 96 100
 61 410.3 127.3 236.3#
 63 2573.3 98.3 182.7#





#13

Acetone

Concen: 2.197 ug/L

RT: 2.137 min Scan# 341

Delta R.T. -0.006 min

Lab File: VV032547.D

Acq: 21 Oct 2023 01:08

Instrument :

MSVOA_V

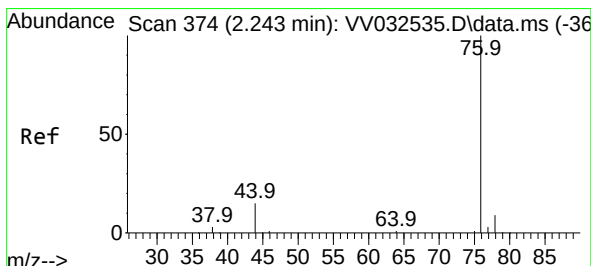
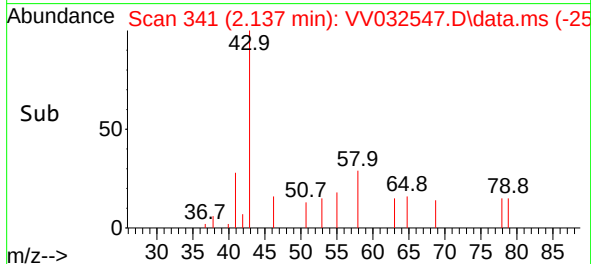
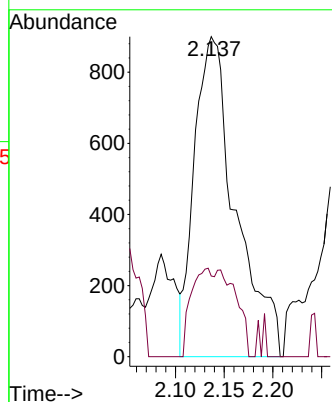
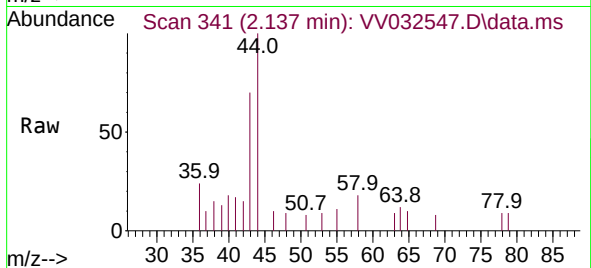
ClientSampleId :

Tgt Ion: 43 Resp: 2648

Ion Ratio Lower Upper

43 100

58 15.3 0.0 66.0



#14

Carbon disulfide

Concen: 0.146 ug/L

RT: 2.243 min Scan# 374

Delta R.T. -0.000 min

Lab File: VV032547.D

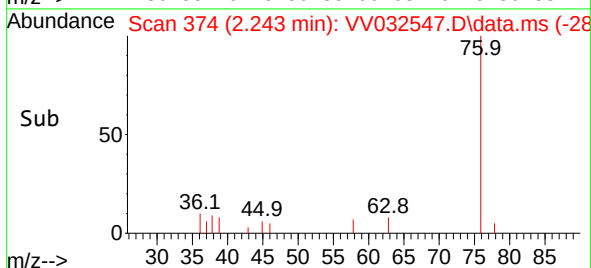
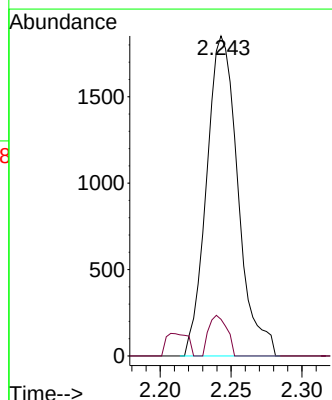
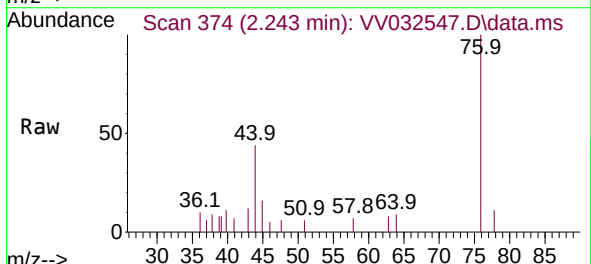
Acq: 21 Oct 2023 01:08

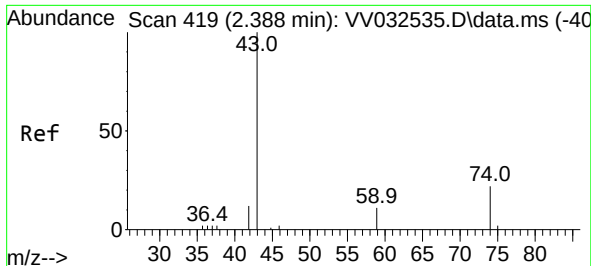
Tgt Ion: 76 Resp: 2852

Ion Ratio Lower Upper

76 100

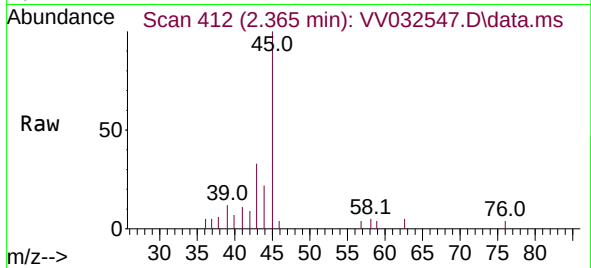
78 11.4 7.4 11.2#



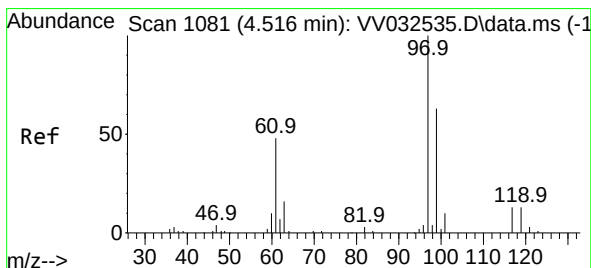
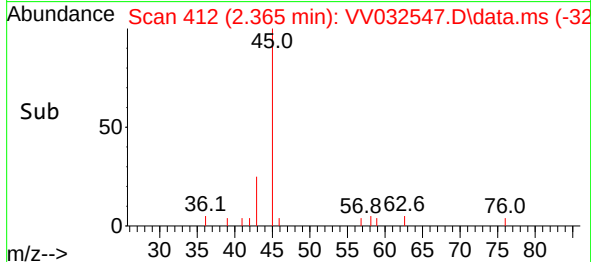
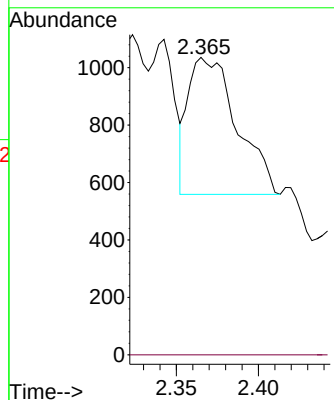


#15
Methyl Acetate
Concen: 0.364 ug/L
RT: 2.365 min Scan# 41
Delta R.T. -0.023 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Instrument :
MSVOA_V
ClientSampleId :

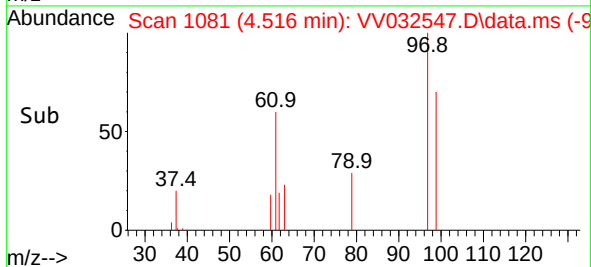
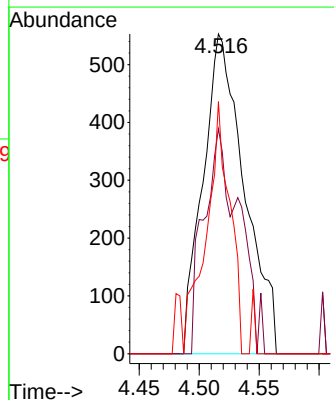
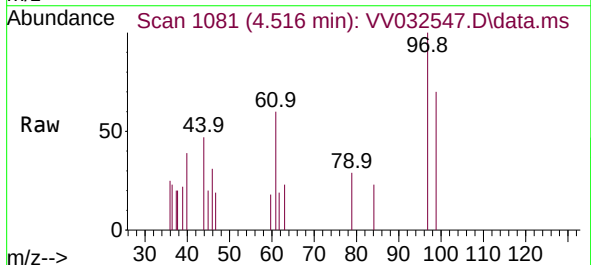


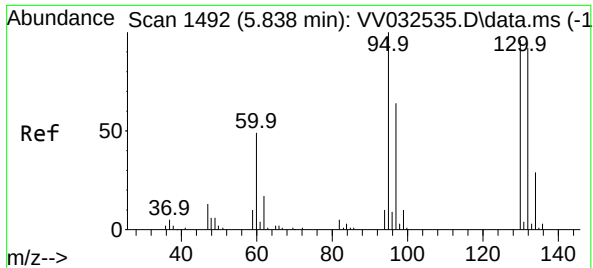
Tgt Ion: 43 Resp: 987
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#29
1,1,1-Trichloroethane
Concen: 0.113 ug/L
RT: 4.516 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion: 97 Resp: 1330
Ion Ratio Lower Upper
97 100
99 40.0 50.1 75.1#
61 45.2 35.1 52.7



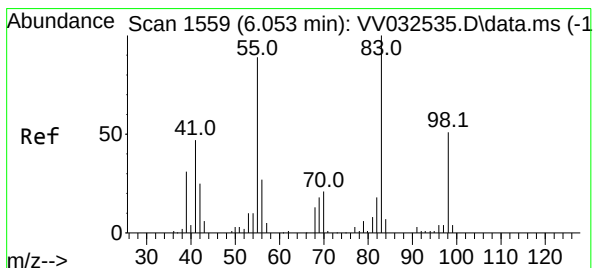
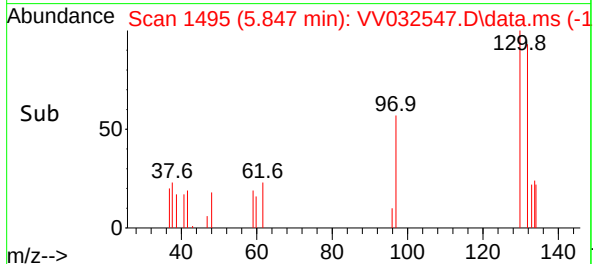
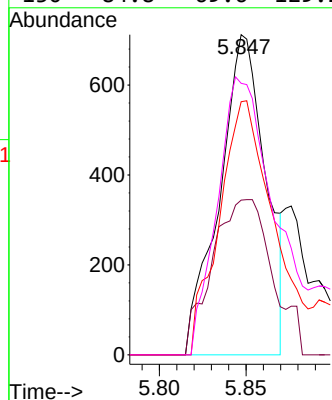
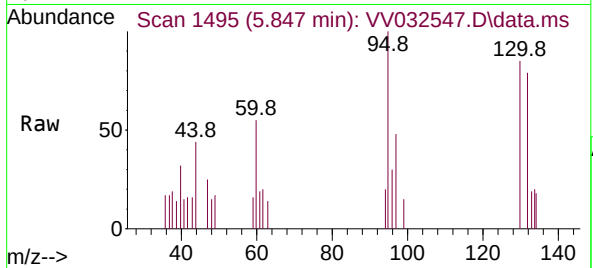


#34
Trichloroethene
Concen: 0.159 ug/L
RT: 5.847 min Scan# 1495
Delta R.T. 0.010 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 95 Resp: 1324

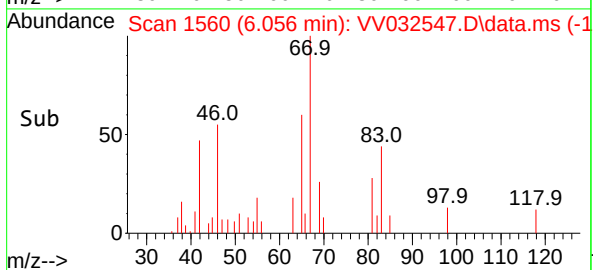
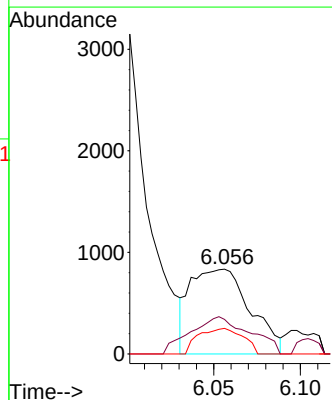
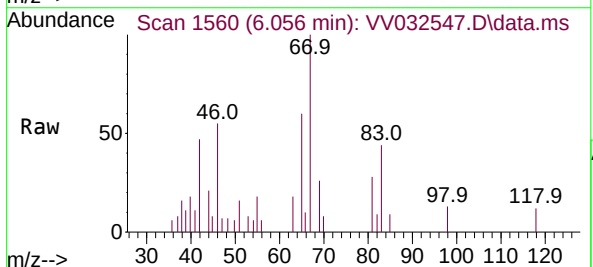
Ion	Ratio	Lower	Upper
95	100		
97	48.3	45.7	84.9
132	79.1	70.3	130.5
130	84.8	69.6	129.2

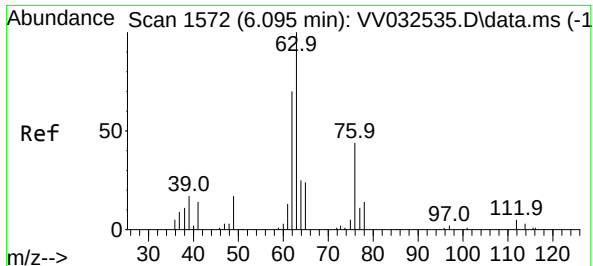


#35
Methylcyclohexane
Concen: 0.156 ug/L
RT: 6.056 min Scan# 1560
Delta R.T. 0.003 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion: 83 Resp: 2011

Ion	Ratio	Lower	Upper
83	100		
55	43.4	64.2	96.2#
98	22.3	39.6	59.4#





#37

1,2-Dichloropropane

Concen: 0.076 ug/L

RT: 6.104 min Scan# 1

Delta R.T. 0.010 min

Lab File: VV032547.D

Acq: 21 Oct 2023 01:08

Instrument :

MSVOA_V

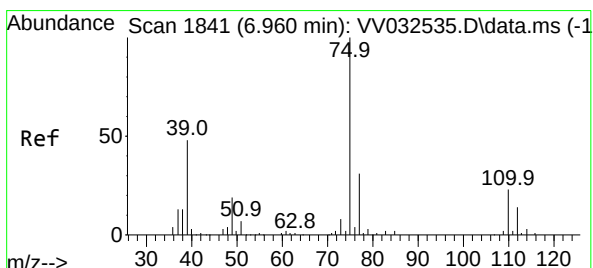
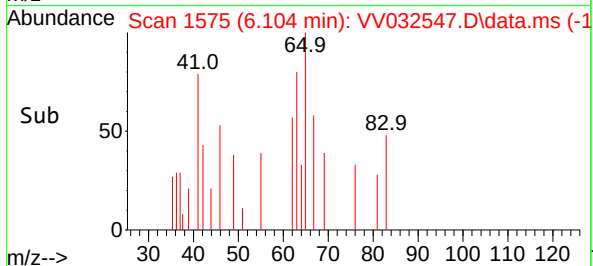
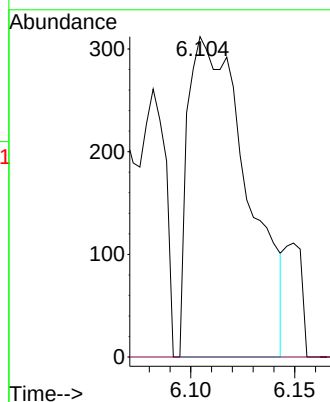
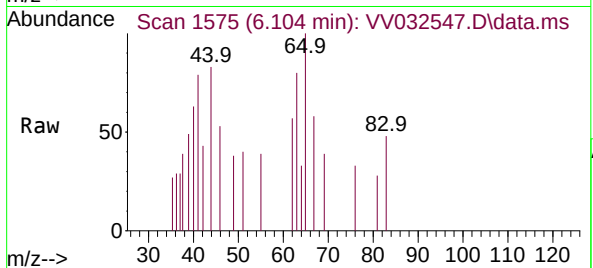
ClientSampleId :

Tgt Ion: 63 Resp: 618

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#39

cis-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 6.969 min Scan# 1844

Delta R.T. 0.010 min

Lab File: VV032547.D

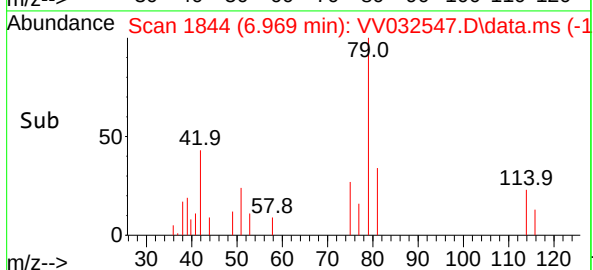
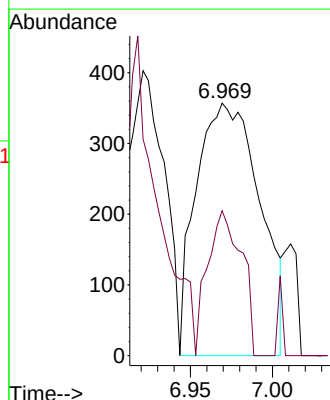
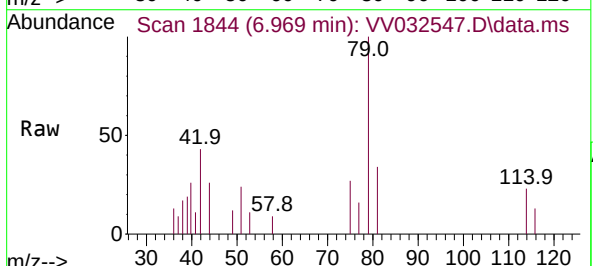
Acq: 21 Oct 2023 01:08

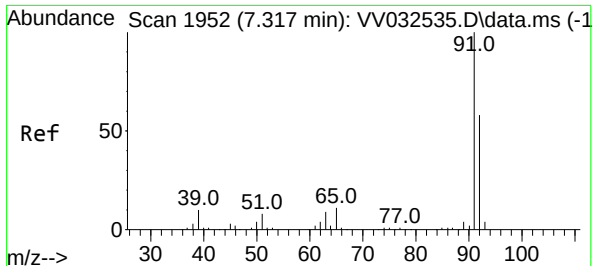
Tgt Ion: 75 Resp: 964

Ion Ratio Lower Upper

75 100

77 57.4 22.2 41.2#

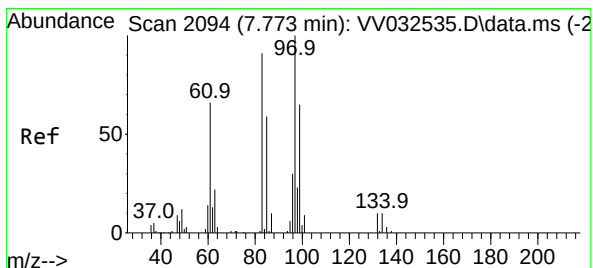
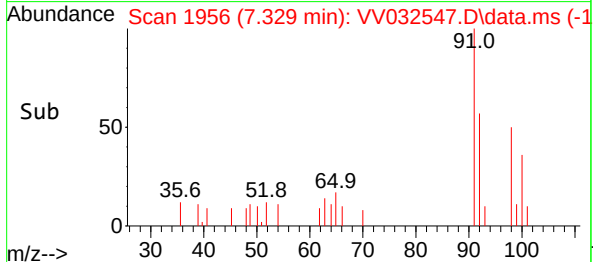
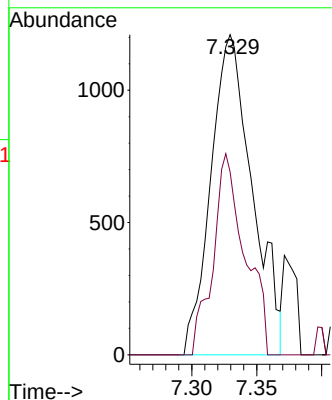
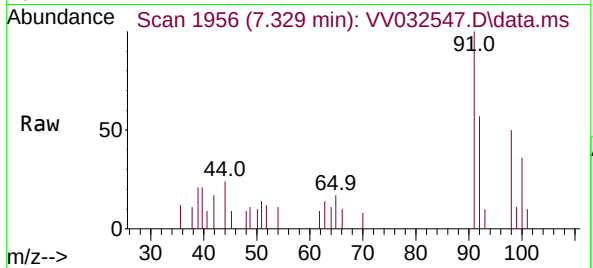




#42
Toluene
Concen: 0.083 ug/L
RT: 7.329 min Scan# 1956
Delta R.T. 0.013 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

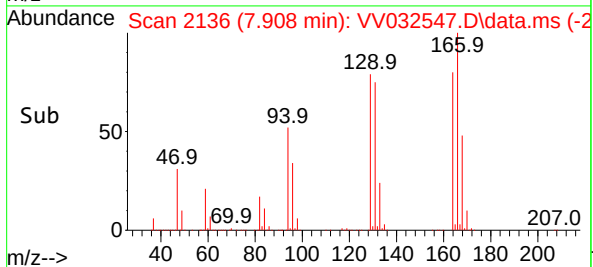
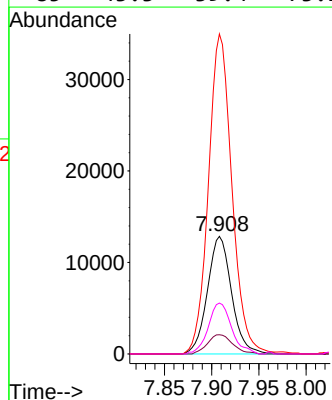
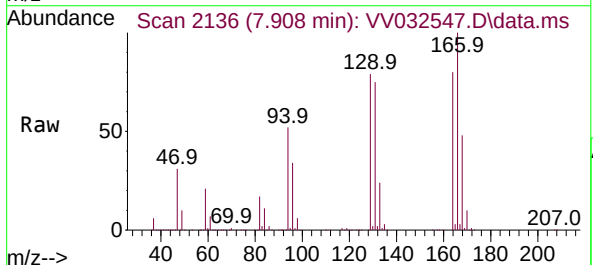
Instrument :
MSVOA_V
ClientSampleId :

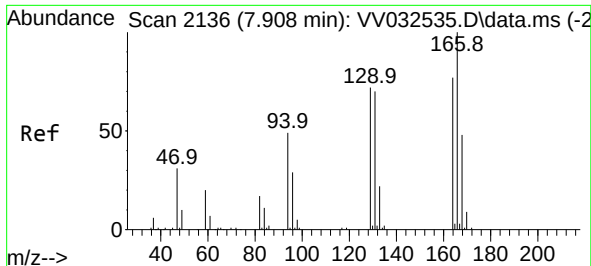
Tgt Ion: 91 Resp: 2688
Ion Ratio Lower Upper
91 100
92 57.1 40.8 75.8



#45
1,1,2-Trichloroethane
Concen: 3.959 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.135 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

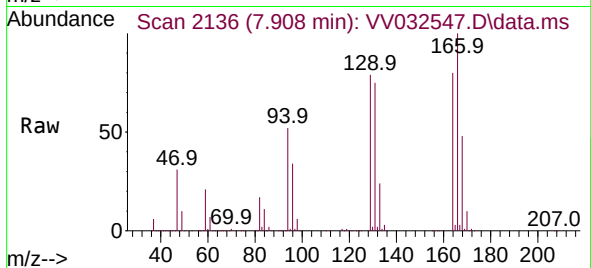
Tgt Ion: 97 Resp: 22809
Ion Ratio Lower Upper
97 100
99 16.4 42.8 79.4#
83 272.1 60.9 113.1#
85 43.3 39.4 73.2





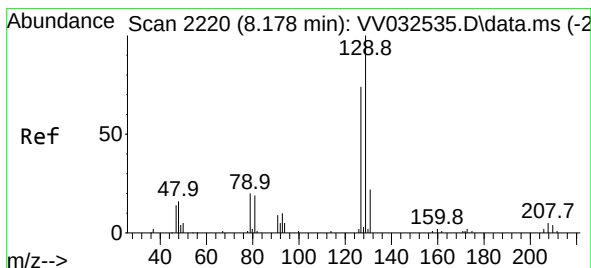
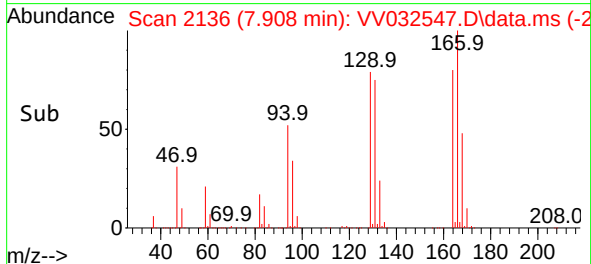
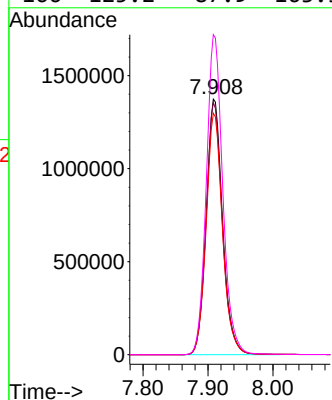
#47
Tetrachloroethene
Concen: 382.795 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. -0.000 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:164 Resp: 2419992

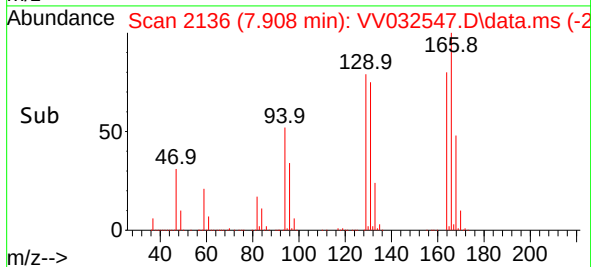
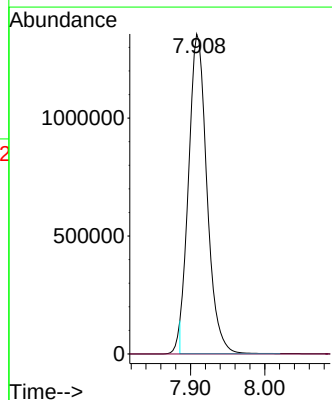
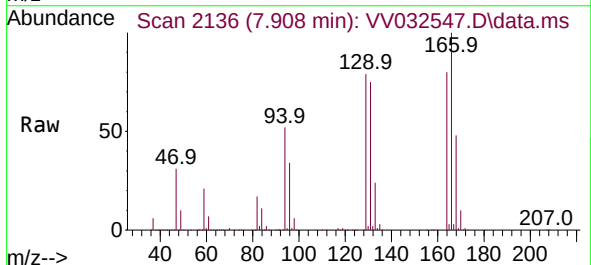
Ion	Ratio	Lower	Upper
164	100		
129	98.8	66.4	123.4
131	94.5	63.7	118.3
166	125.2	87.9	163.3

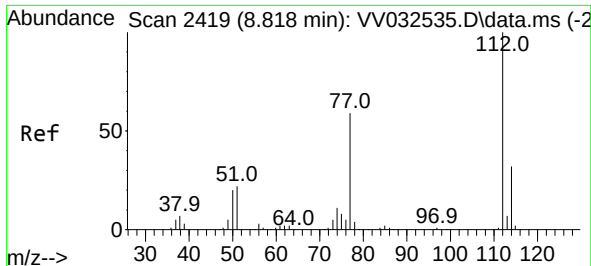


#49
Dibromochloromethane
Concen: 384.231 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. -0.270 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion:129 Resp: 2304572

Ion	Ratio	Lower	Upper
129	100		
127	0.0	57.2	106.2#

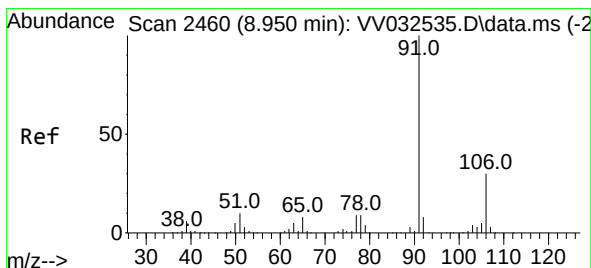
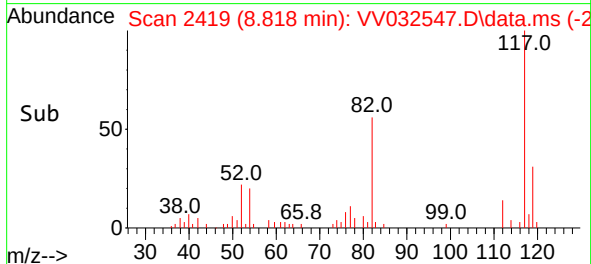
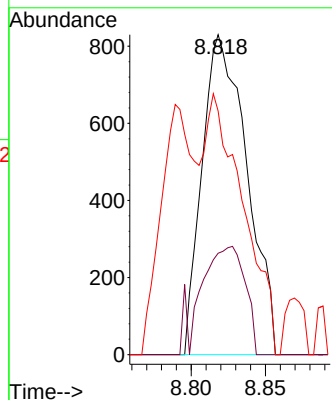
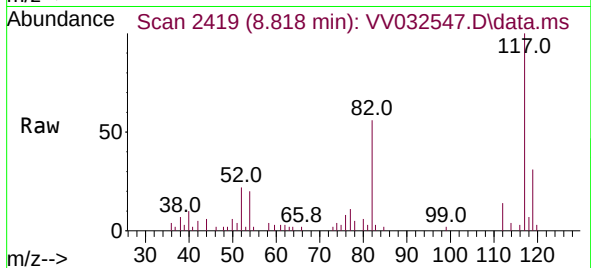




#51
Chlorobenzene
Concen: 0.083 ug/L
RT: 8.818 min Scan# 2419
Delta R.T. -0.000 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

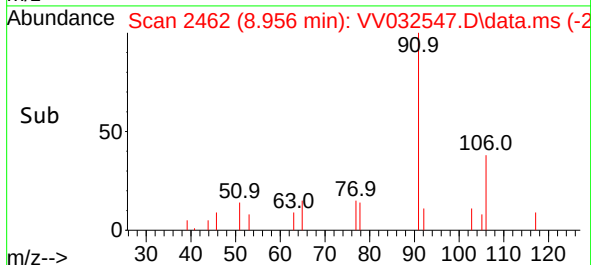
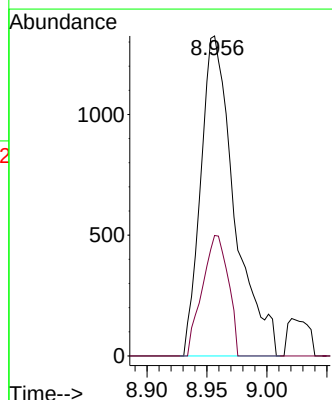
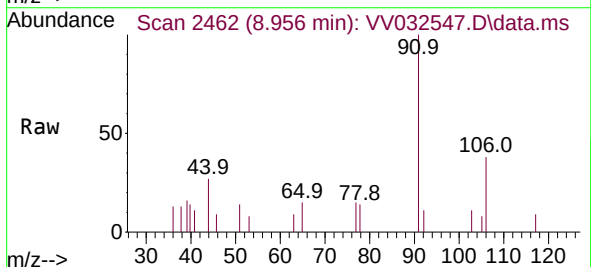
Instrument :
MSVOA_V
ClientSampleId :

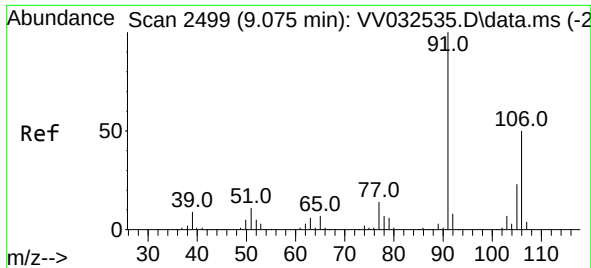
Tgt Ion:112 Resp: 1742
Ion Ratio Lower Upper
112 100
114 31.7 22.1 41.1
77 76.1 46.1 69.1#



#52
Ethylbenzene
Concen: 0.072 ug/L
RT: 8.956 min Scan# 2462
Delta R.T. 0.006 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion: 91 Resp: 2593
Ion Ratio Lower Upper
91 100
106 37.7 21.3 39.5

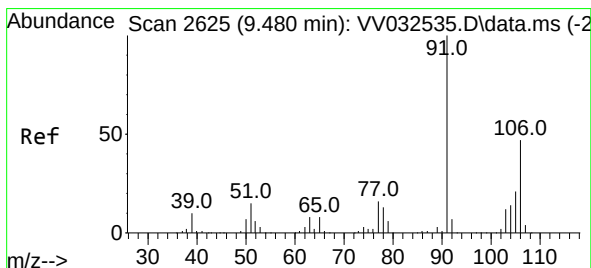
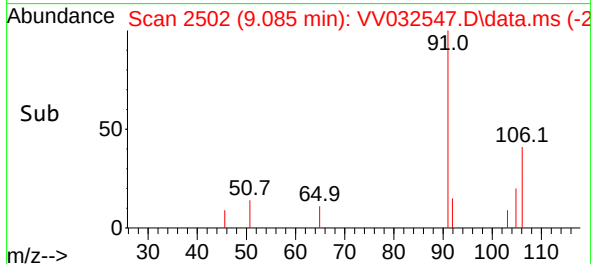
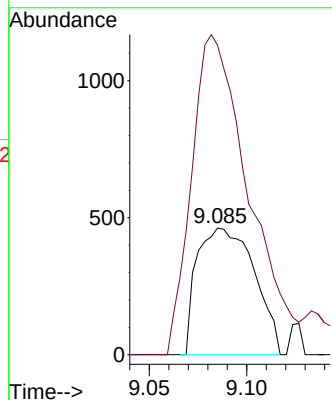
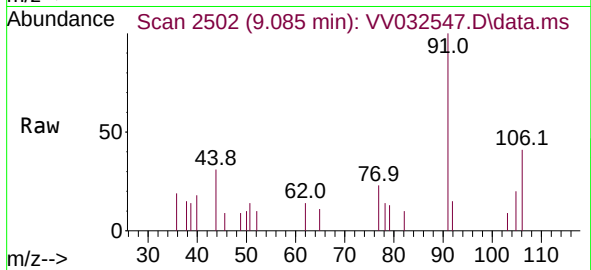




#53
m,p-Xylene
Concen: 0.070 ug/L
RT: 9.085 min Scan# 21
Delta R.T. 0.010 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

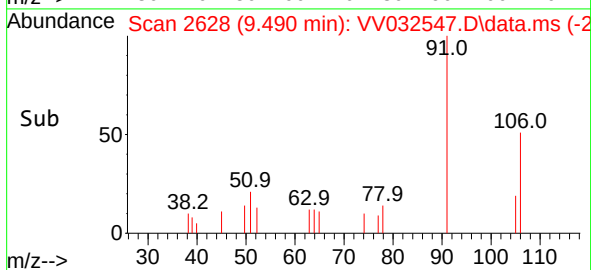
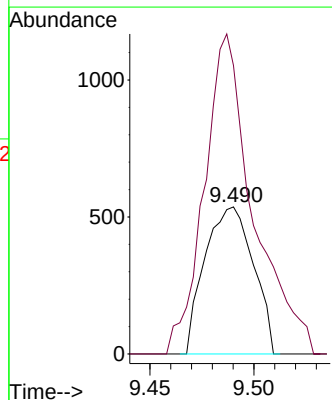
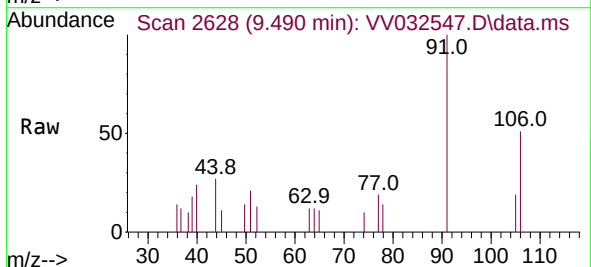
Instrument :
MSVOA_V
ClientSampleId :

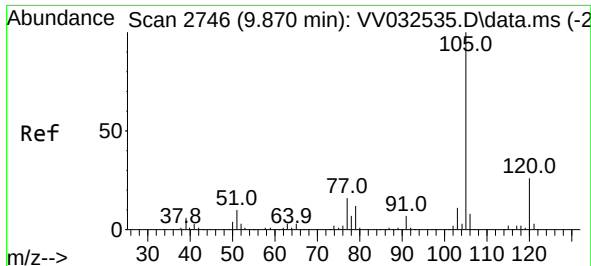
Tgt Ion:106 Resp: 945
Ion Ratio Lower Upper
106 100
91 244.6 144.5 268.3



#54
o-Xylene
Concen: 0.067 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. 0.010 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion:106 Resp: 871
Ion Ratio Lower Upper
106 100
91 196.1 154.8 287.4

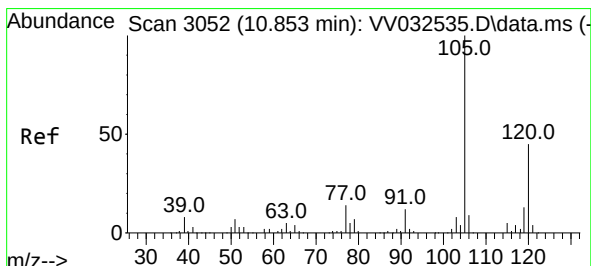
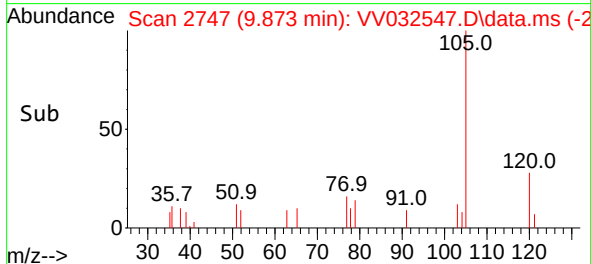
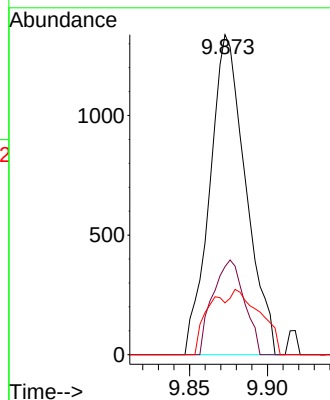
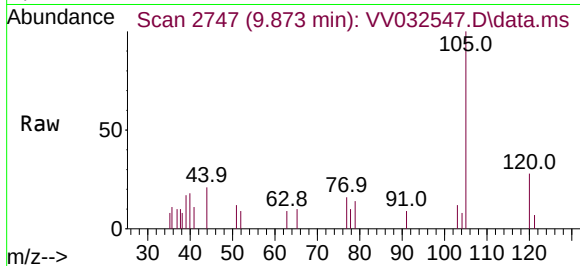




#60
Isopropylbenzene
Concen: 0.068 ug/L
RT: 9.873 min Scan# 2137
Delta R.T. 0.003 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

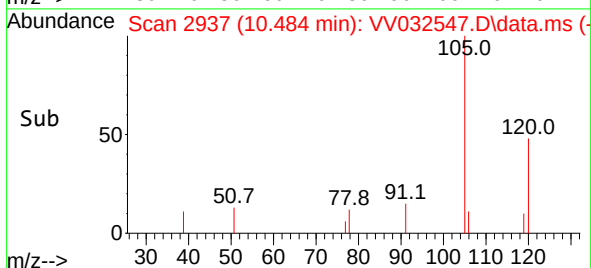
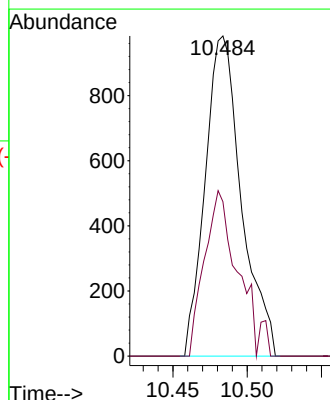
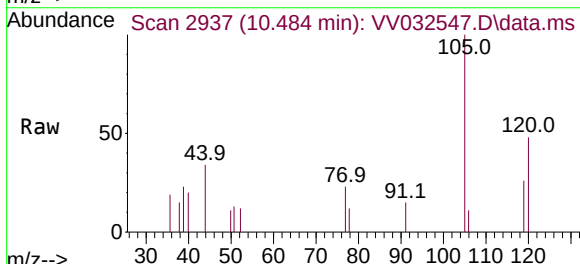
Instrument :
MSVOA_V
ClientSampleId :

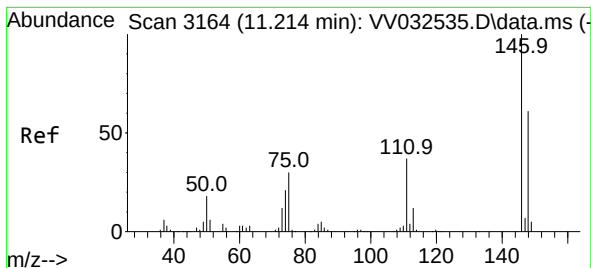
Tgt Ion:105 Resp: 2137
Ion Ratio Lower Upper
105 100
120 26.0 21.0 31.6
77 17.8 12.6 19.0



#63
1,2,4-Trimethylbenzene
Concen: 0.065 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. -0.370 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Tgt Ion:105 Resp: 1668
Ion Ratio Lower Upper
105 100
120 48.3 36.2 54.4





#65

1,4-Dichlorobenzene

Concen: 0.081 ug/L

RT: 11.214 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VV032547.D

Acq: 21 Oct 2023 01:08

Instrument :

MSVOA_V

ClientSampleId :

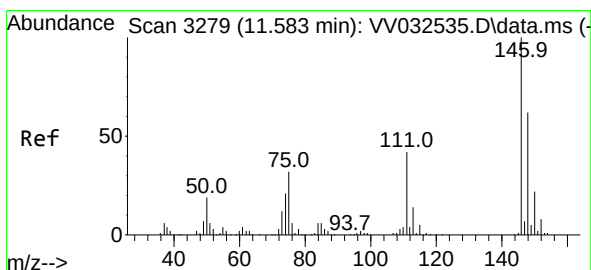
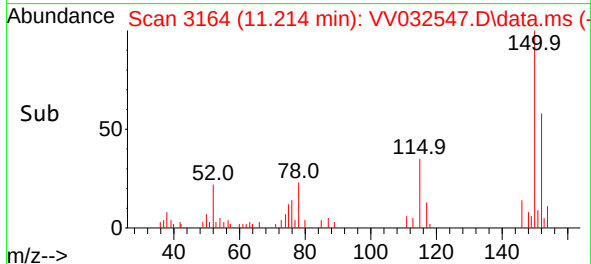
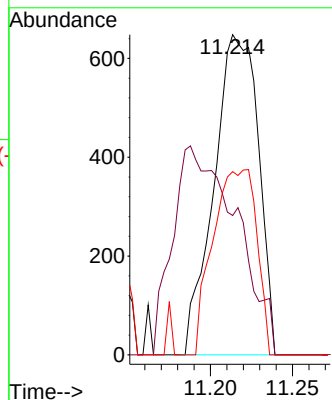
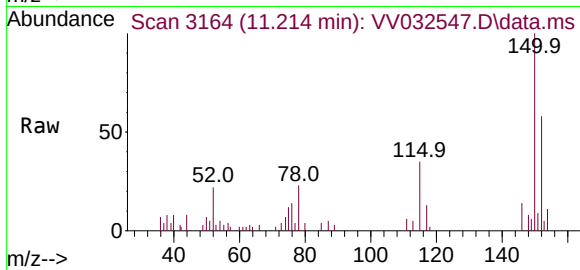
Tgt Ion:146 Resp: 1221

Ion Ratio Lower Upper

146 100

111 43.5 26.9 49.9

148 57.3 44.8 83.2



#67

1,2-Dichlorobenzene

Concen: 0.085 ug/L

RT: 11.586 min Scan# 3280

Delta R.T. 0.003 min

Lab File: VV032547.D

Acq: 21 Oct 2023 01:08

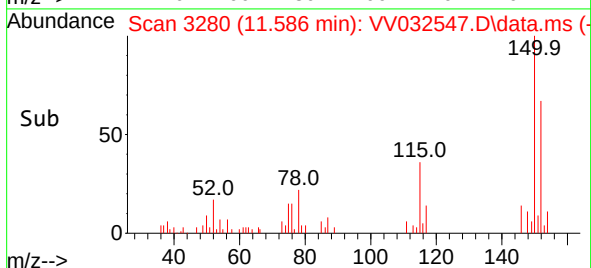
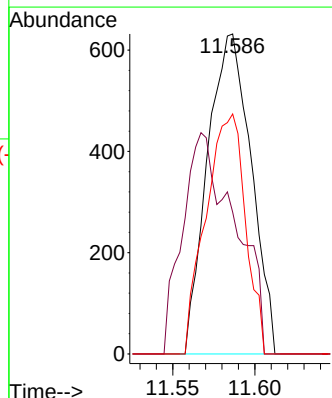
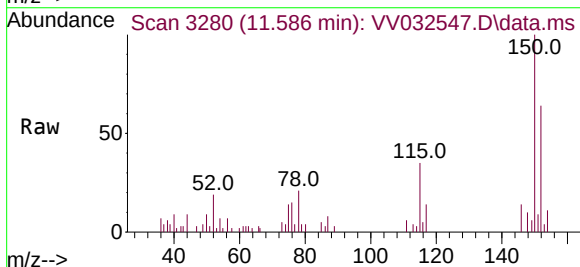
Tgt Ion:146 Resp: 1166

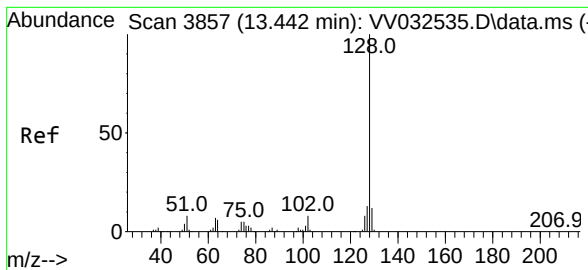
Ion Ratio Lower Upper

146 100

111 44.3 32.8 49.2

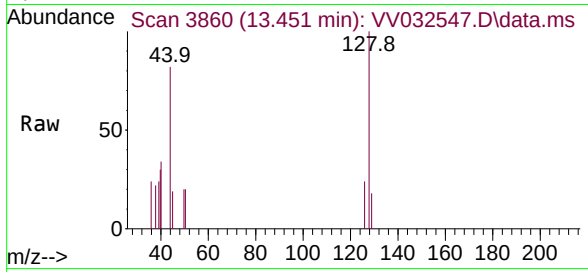
148 75.0 51.0 76.4





#71
Naphthalene
Concen: 0.064 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.010 min
Lab File: VV032547.D
Acq: 21 Oct 2023 01:08

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:	128	Resp:	1075
Ion	Ratio	Lower	Upper
128	100		
129	2.0	9.0	13.4#
127	5.7	10.2	15.2#

