

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101923\
 Data File : VW032488.D
 Acq On : 19 Oct 2023 11:34
 Operator : SY/MD
 Sample : 04928-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 20 06:20:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 20 06:17:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	99489	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	109863	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	53411	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	37853	4.678	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.600%
7) Chloroethane-d5	1.532	69	32725	4.982	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.600%
11) 1,1-Dichloroethene-d2	2.060	65	15316	4.488	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.800%
20) 2-Butanone-d5	3.799	46	86531	42.275	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.560%
24) Chloroform-d	4.253	84	64753	4.536	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.800%
26) 1,2-Dichloroethane-d4	4.944	65	33796	4.999	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.000%
32) Benzene-d6	4.963	84	127596	3.947	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.000%
36) 1,2-Dichloropropane-d6	5.989	67	45705	4.267	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.400%
41) Toluene-d8	7.246	98	110634	3.743	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.800%
43) trans-1,3-Dichloroprop...	7.561	79	14579	3.841	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.800%
46) 2-Hexanone-d5	8.027	63	78543	43.983	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.960%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	33117	4.421	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.400%
66) 1,2-Dichlorobenzene-d4	11.564	152	42551	4.293	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.282	62	33075	3.103	ug/L	98
12) 1,1-Dichloroethene	2.069	96	131041	17.959	ug/L #	75
16) Methylene chloride	2.446	84	133847	14.070	ug/L	92
18) trans-1,2-Dichloroethene	2.693	96	166274	19.895	ug/L	98
22) cis-1,2-Dichloroethene	3.815	96	30445	3.383	ug/L	93
27) 1,2-Dichloroethane	5.040	62	122263	13.416	ug/L	100
29) 1,1,1-Trichloroethane	4.513	97	47802	3.200	ug/L	95
31) Carbon tetrachloride	4.738	117	35121	2.779	ug/L	98
33) Benzene	5.011	78	233448	6.035	ug/L	100
34) Trichloroethene	5.834	95	30216	2.862	ug/L	97
35) Methylcyclohexane	5.989	83	10915	0.668	ug/L #	17
37) 1,2-Dichloropropane	6.095	63	32017	3.095	ug/L	99
42) Toluene	7.317	91	352060	8.538	ug/L	100
45) 1,1,2-Trichloroethane	7.770	97	81461	11.163	ug/L	98
47) Tetrachloroethene	7.905	164	127166	15.881	ug/L	99
49) Dibromochloromethane	7.905	129	117644	15.485	ug/L #	8
51) Chlorobenzene	8.815	112	321117	12.096	ug/L	97
52) Ethylbenzene	8.947	91	171904	3.744	ug/L	99
53) m,p-Xylene	9.072	106	349351	20.515	ug/L	100

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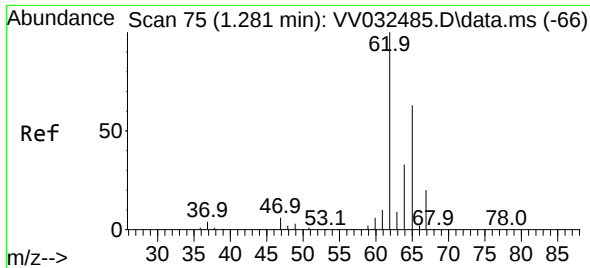
Instrument :
 MSVOA_V
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

54) o-Xylene	9.481	106	99096	6.039	ug/L	99
55) Styrene	9.497	104	378350	13.653	ug/L	99
60) Isopropylbenzene	9.487	105	73722	1.776	ug/L #	1
61) 1,2,3-Trichloropropane	9.497	75	18919	3.328	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.487	105	73722	2.179	ug/L #	28
64) 1,3-Dichlorobenzene	11.214	146	49112	2.477	ug/L	98
65) 1,4-Dichlorobenzene	11.214	146	49112	2.469	ug/L	100
67) 1,2-Dichlorobenzene	11.580	146	312873	17.300	ug/L	99
70) 1,2,4-trichlorobenzene	13.201	180	61000	4.736	ug/L	99
72) 1,2,3-Trichlorobenzene	13.689	180	1617	0.146	ug/L	98

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

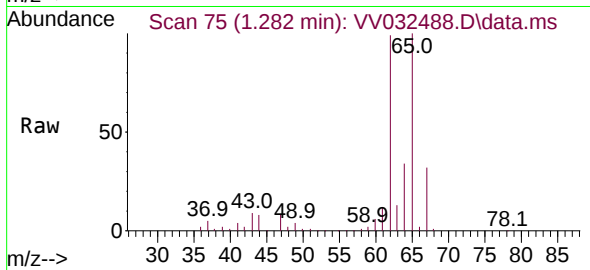


#5
 Vinyl chloride
 Concen: 3.103 ug/L
 RT: 1.282 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VV032488.D
 Acq: 19 Oct 2023 11:34

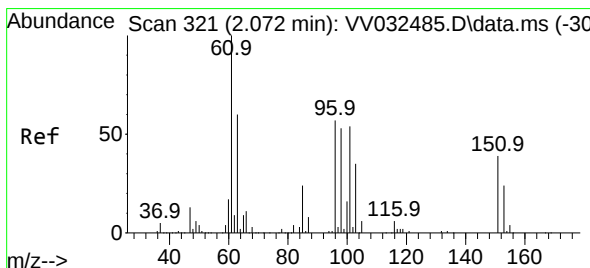
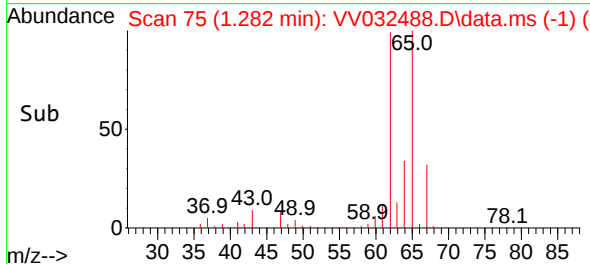
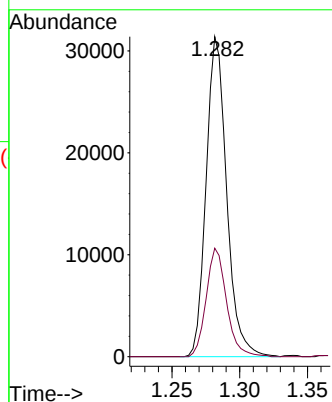
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MSVOA_V

ClientSampleId :

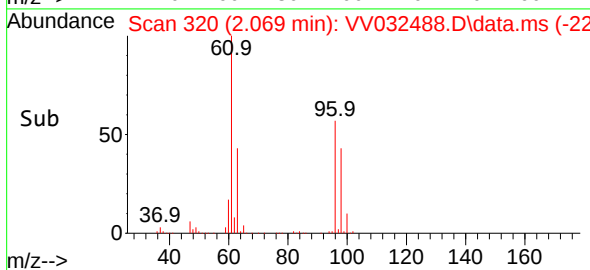
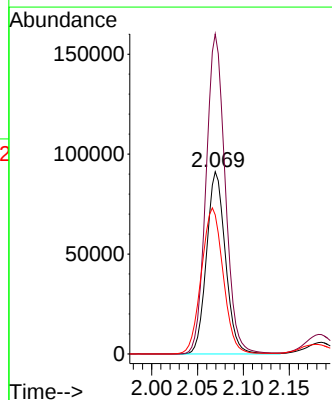
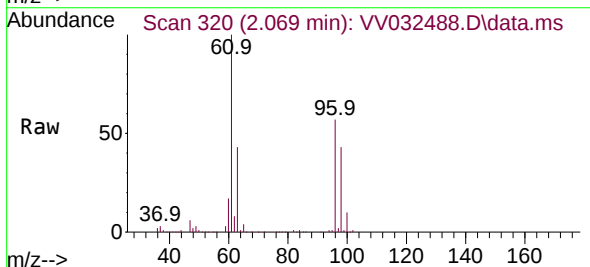


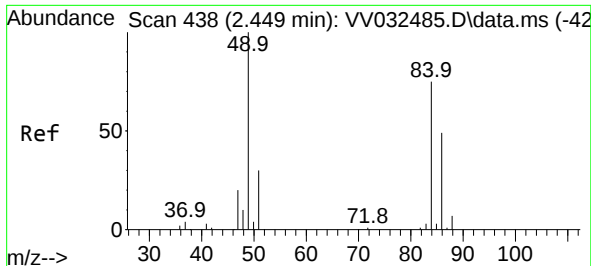
Tgt Ion: 62 Resp: 33075
 Ion Ratio Lower Upper
 62 100
 64 33.9 23.1 42.9



#12
 1,1-Dichloroethene
 Concen: 17.959 ug/L
 RT: 2.069 min Scan# 320
 Delta R.T. -0.003 min
 Lab File: VV032488.D
 Acq: 19 Oct 2023 11:34

Tgt Ion: 96 Resp: 131041
 Ion Ratio Lower Upper
 96 100
 61 175.7 127.3 236.3
 63 76.3 98.3 182.7#

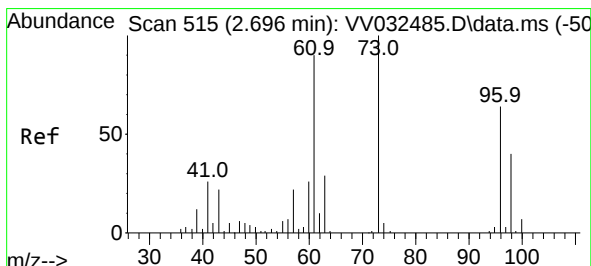
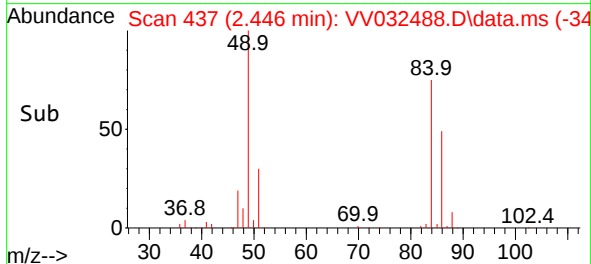
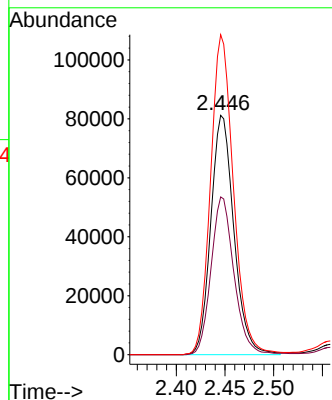
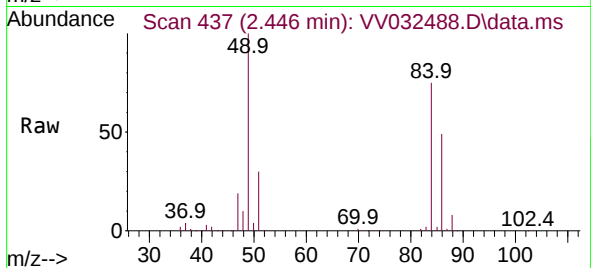




#16
Methylene chloride
Concen: 14.070 ug/L
RT: 2.446 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

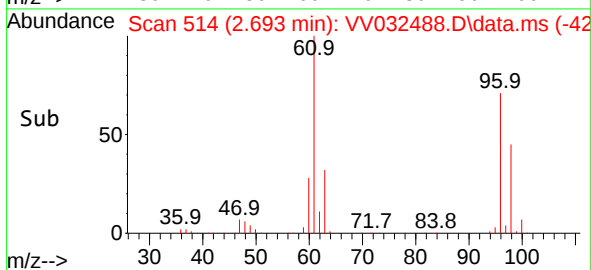
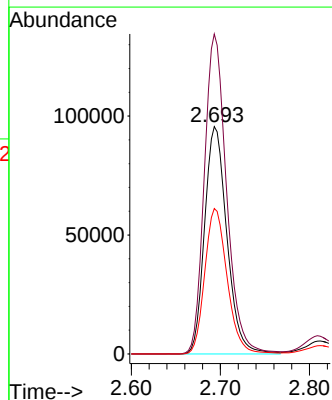
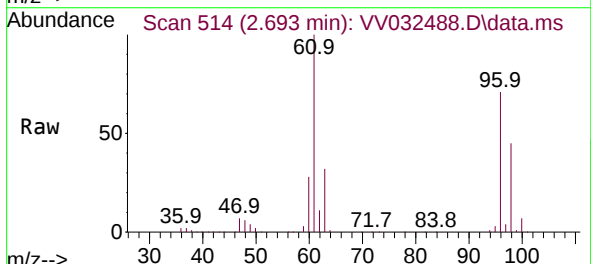
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MSVOA_V
ClientSampleId :

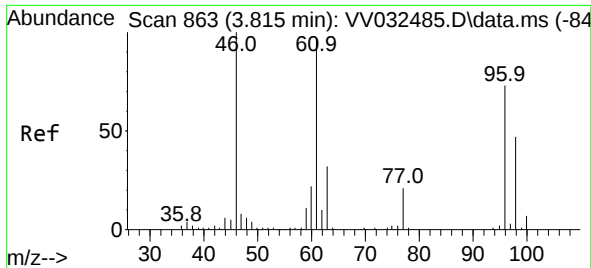
Tgt Ion: 84 Resp: 133847
Ion Ratio Lower Upper
84 100
86 65.9 43.2 80.2
49 133.7 86.3 160.3



#18
trans-1,2-Dichloroethene
Concen: 19.895 ug/L
RT: 2.693 min Scan# 514
Delta R.T. -0.003 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

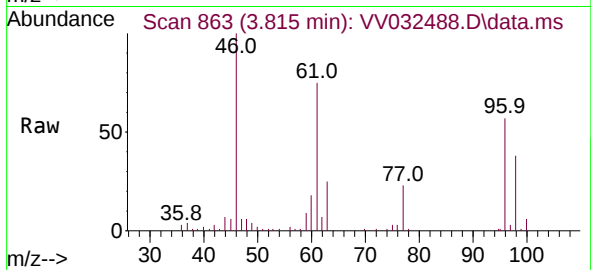
Tgt Ion: 96 Resp: 166274
Ion Ratio Lower Upper
96 100
61 140.8 96.9 180.1
98 64.0 45.3 84.1



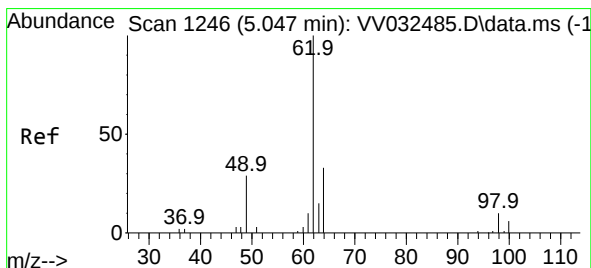
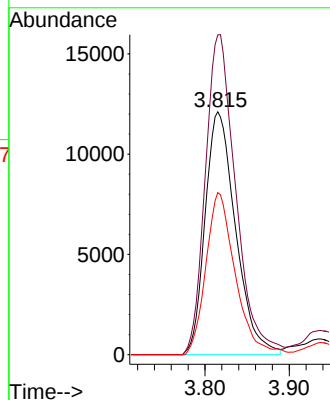
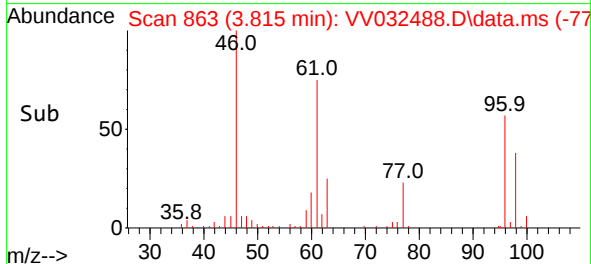


#22
 cis-1,2-Dichloroethene
 Concen: 3.383 ug/L
 RT: 3.815 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VV032488.D
 Acq: 19 Oct 2023 11:34

Instrument :
 MSVOA_V
 ClientSampleId :

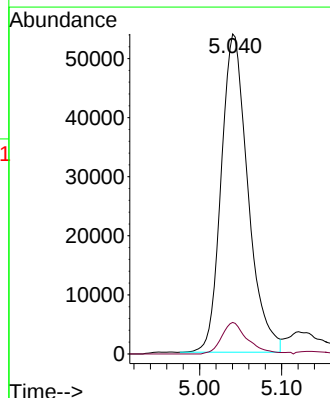
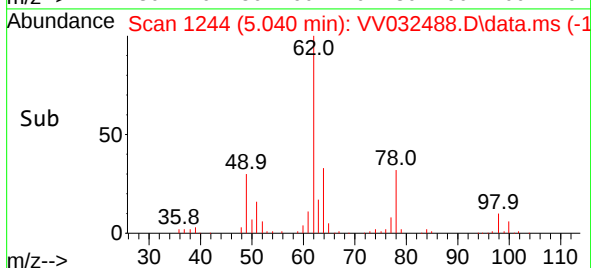
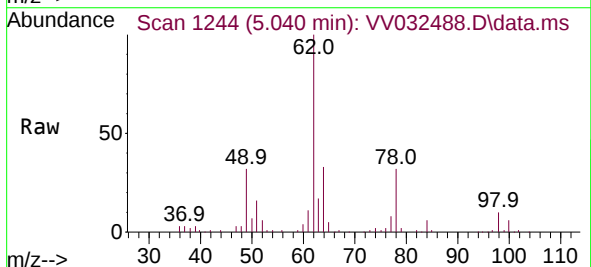


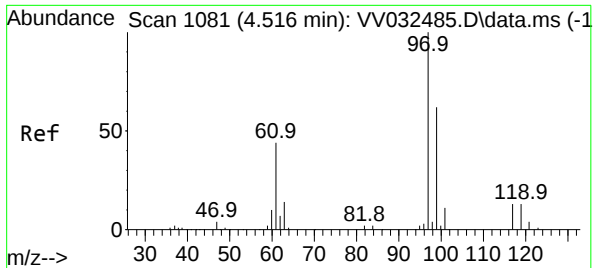
Tgt Ion: 96 Resp: 30445
 Ion Ratio Lower Upper
 96 100
 61 131.7 85.8 159.4
 98 66.7 44.0 81.6



#27
 1,2-Dichloroethane
 Concen: 13.416 ug/L
 RT: 5.040 min Scan# 1244
 Delta R.T. -0.006 min
 Lab File: VV032488.D
 Acq: 19 Oct 2023 11:34

Tgt Ion: 62 Resp: 122263
 Ion Ratio Lower Upper
 62 100
 98 9.9 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 3.200 ug/L

RT: 4.513 min Scan# 1081

Delta R.T. -0.003 min

Lab File: VV032488.D

Acq: 19 Oct 2023 11:34

Instrument :

MSVOA_V

ClientSampleId :

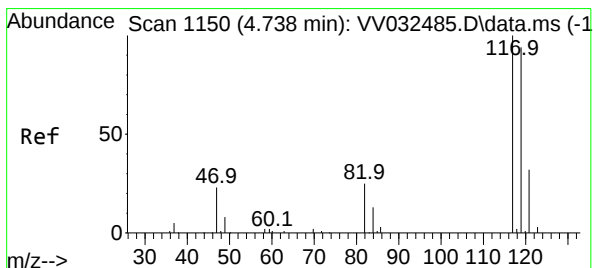
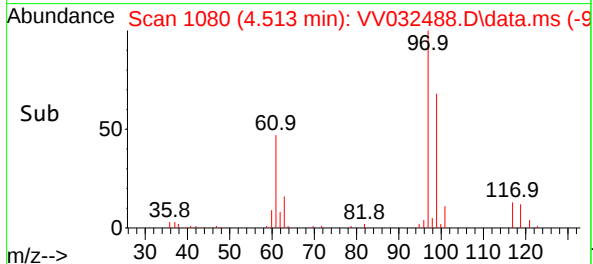
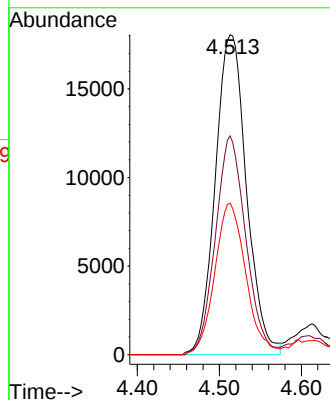
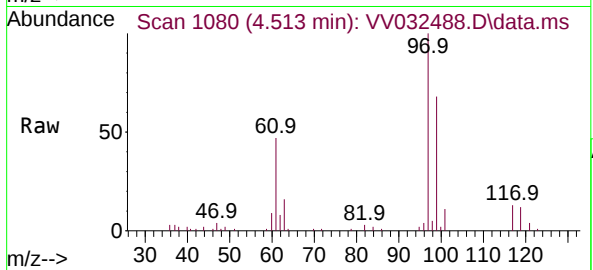
Tgt Ion: 97 Resp: 47802

Ion Ratio Lower Upper

97 100

99 66.6 50.1 75.1

61 47.1 35.1 52.7



#31

Carbon tetrachloride

Concen: 2.779 ug/L

RT: 4.738 min Scan# 1150

Delta R.T. 0.000 min

Lab File: VV032488.D

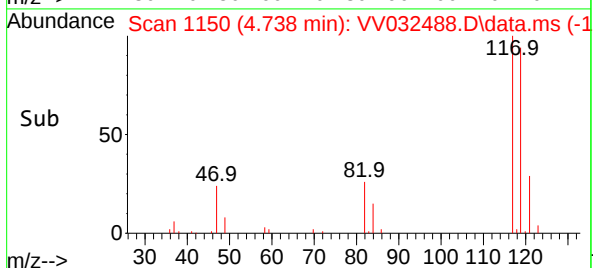
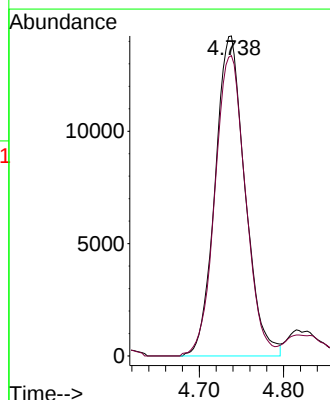
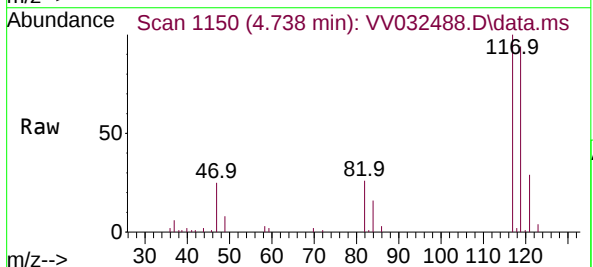
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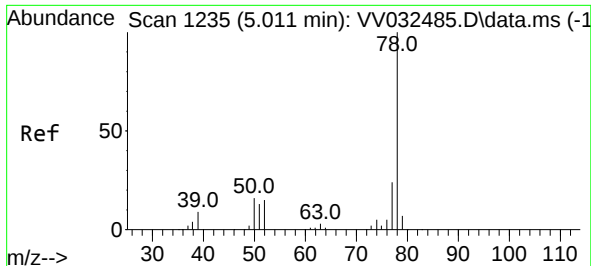
Tgt Ion: 117 Resp: 35121

Ion Ratio Lower Upper

117 100

119 95.5 77.6 116.4

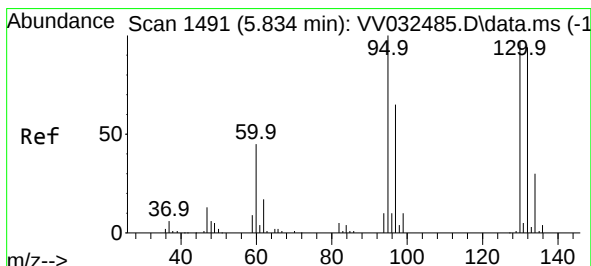
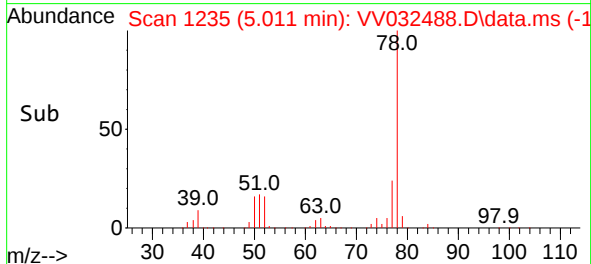
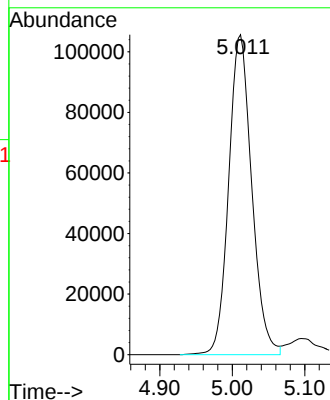
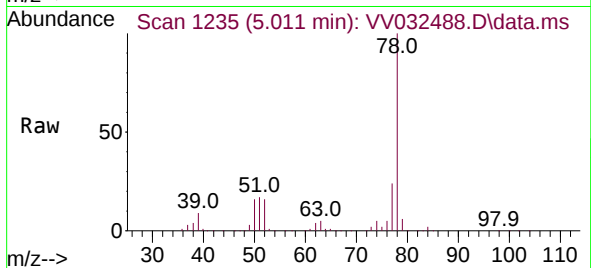




#33
Benzene
Concen: 6.035 ug/L
RT: 5.011 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Instrument :
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ClientSampleId :

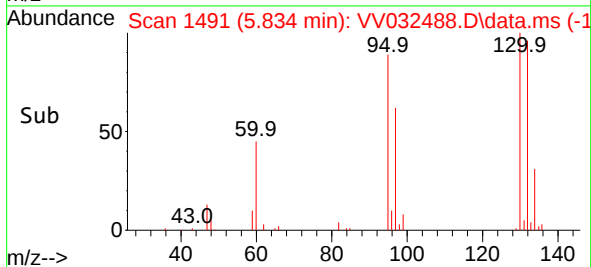
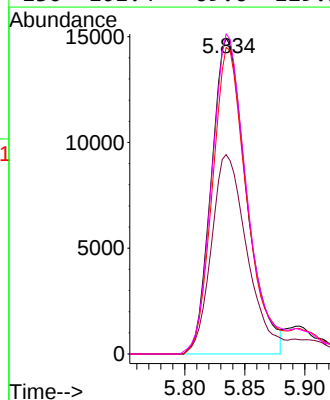
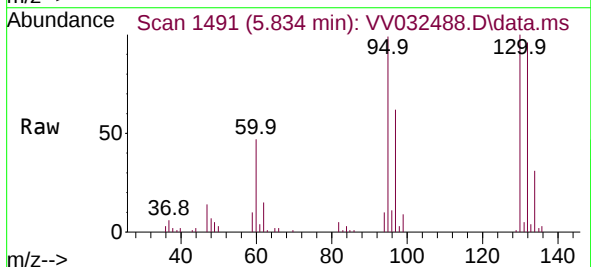
Tgt Ion: 78 Resp: 233448

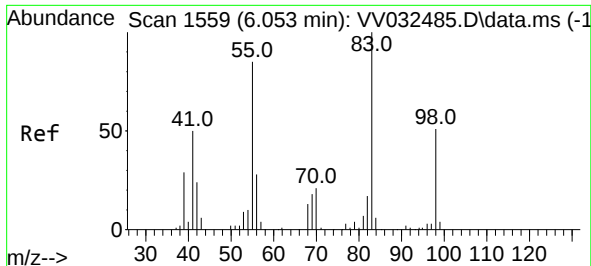


#34
Trichloroethene
Concen: 2.862 ug/L
RT: 5.834 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion: 95 Resp: 30216

Ion	Ratio	Lower	Upper
95	100		
97	63.2	45.7	84.9
132	97.1	70.3	130.5
130	101.4	69.6	129.2

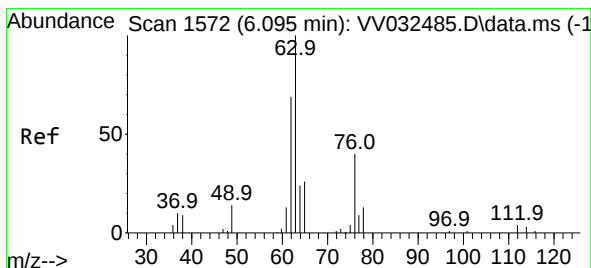
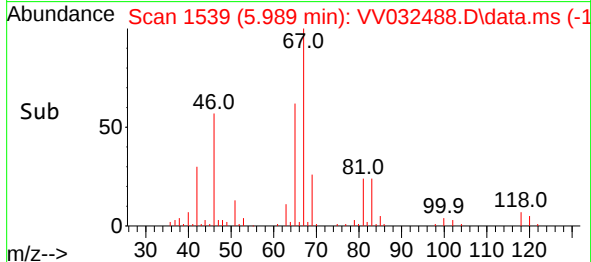
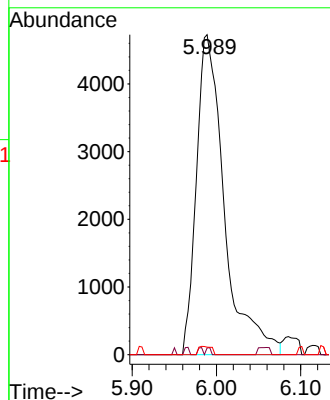
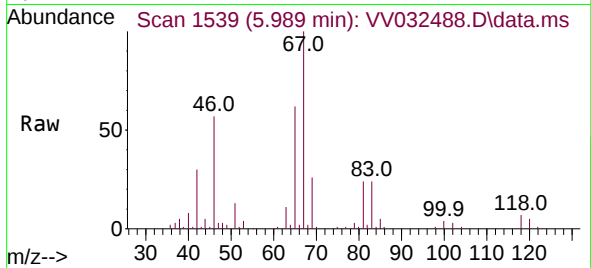




#35
Methylcyclohexane
Concen: 0.668 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.064 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

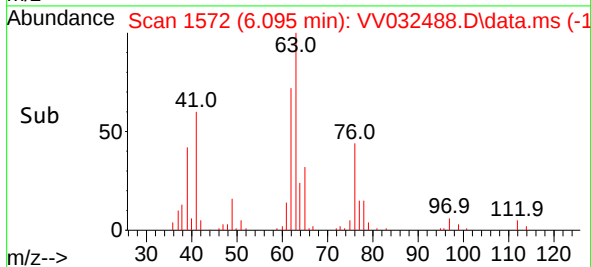
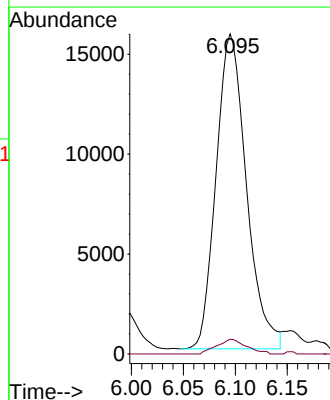
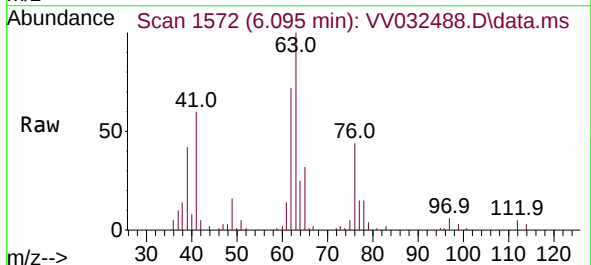
Instrument :
MSVOA_V
ClientSampleId :

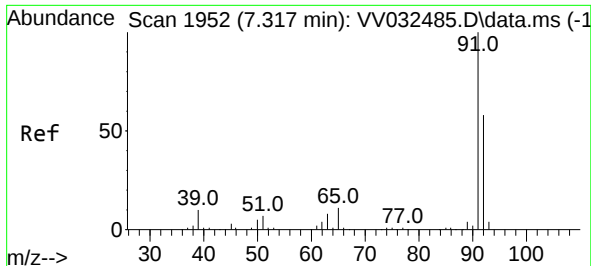
Tgt Ion: 83 Resp: 10915
Ion Ratio Lower Upper
83 100
55 0.4 64.2 96.2#
98 0.0 39.6 59.4#



#37
1,2-Dichloropropane
Concen: 3.095 ug/L
RT: 6.095 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion: 63 Resp: 32017
Ion Ratio Lower Upper
63 100
112 4.6 3.4 5.2





#42

Toluene

Concen: 8.538 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VV032488.D

Acq: 19 Oct 2023 11:34

Instrument :

MSVOA_V

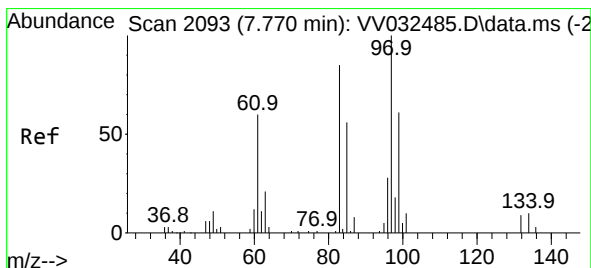
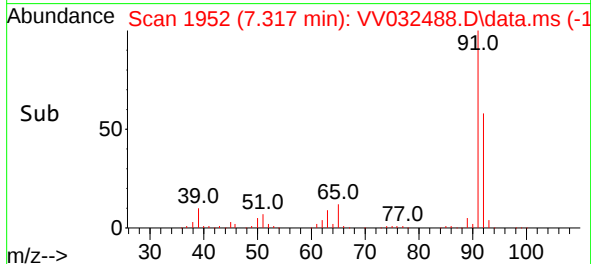
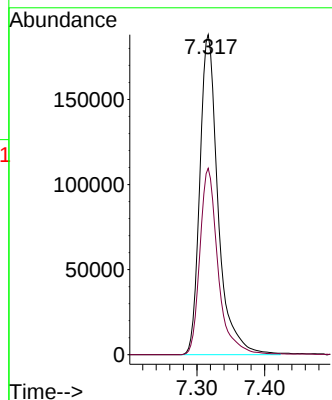
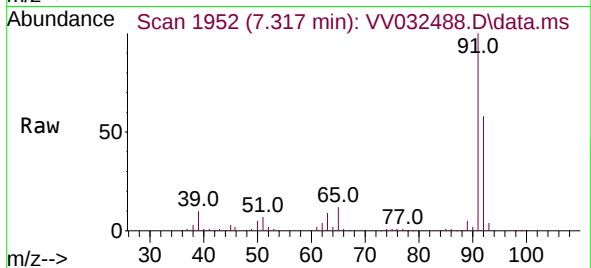
ClientSampleId :

Tgt Ion: 91 Resp: 352060

Ion Ratio Lower Upper

91 100

92 58.2 40.8 75.8



#45

1,1,2-Trichloroethane

Concen: 11.163 ug/L

RT: 7.770 min Scan# 2093

Delta R.T. 0.000 min

Lab File: VV032488.D

Acq: 19 Oct 2023 11:34

Tgt Ion: 97 Resp: 81461

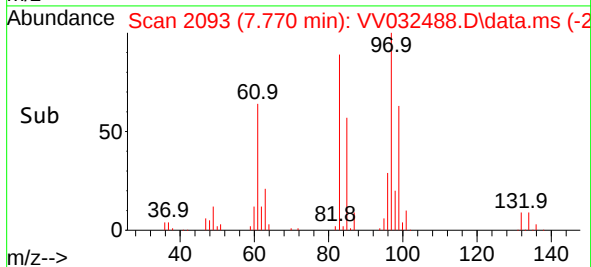
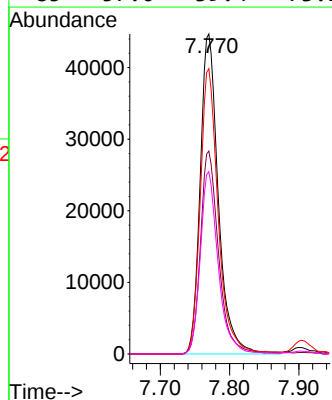
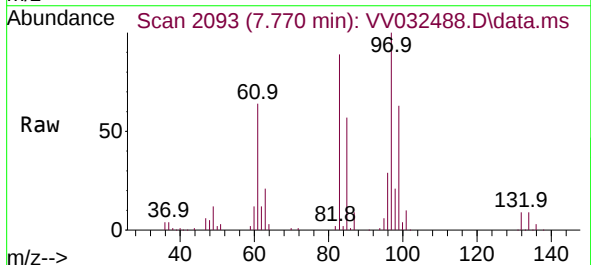
Ion Ratio Lower Upper

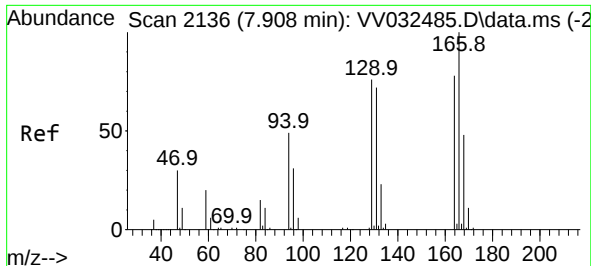
97 100

99 63.4 42.8 79.4

83 89.2 60.9 113.1

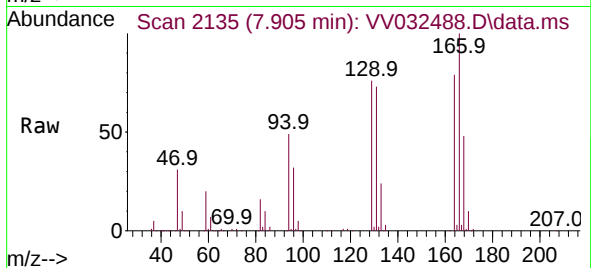
85 57.0 39.4 73.2



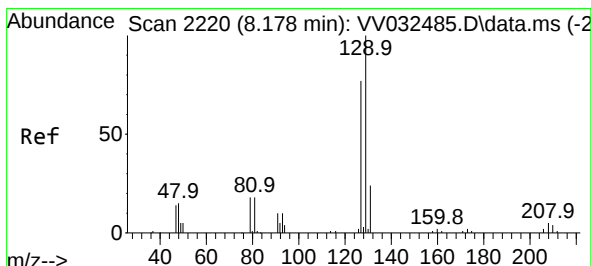
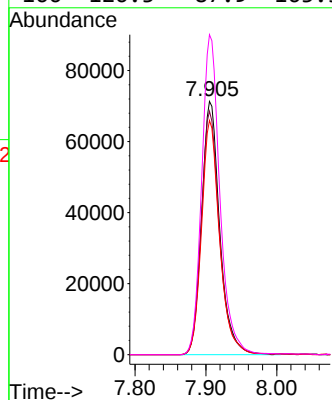
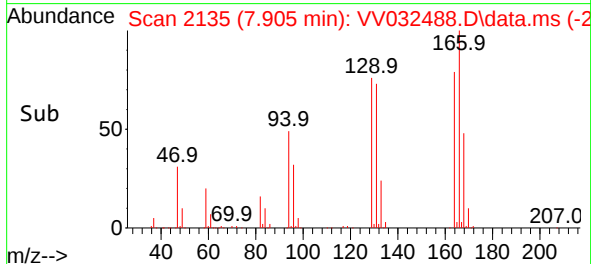


#47
Tetrachloroethene
Concen: 15.881 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.003 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Instrument :
MSVOA_V
ClientSampleId :

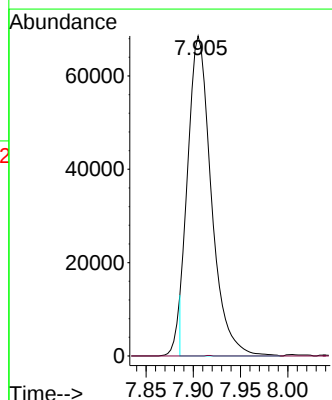
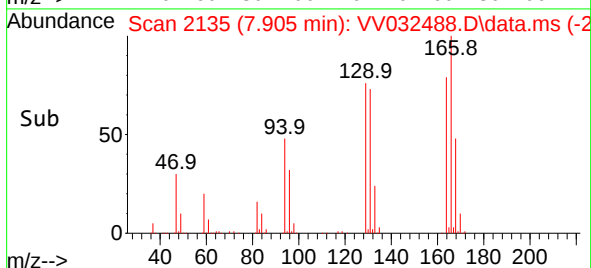
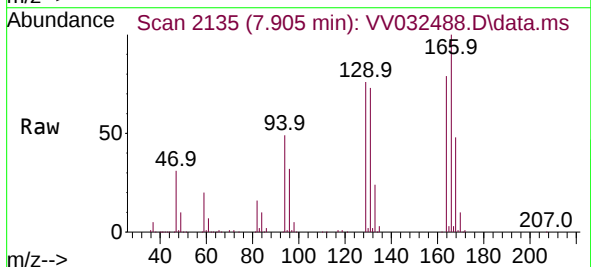


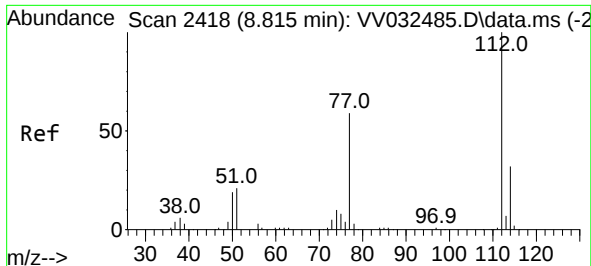
Tgt Ion:164 Resp: 127166
Ion Ratio Lower Upper
164 100
129 96.1 66.4 123.4
131 92.5 63.7 118.3
166 126.3 87.9 163.3



#49
Dibromochloromethane
Concen: 15.485 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.273 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion:129 Resp: 117644
Ion Ratio Lower Upper
129 100
127 0.0 57.2 106.2#

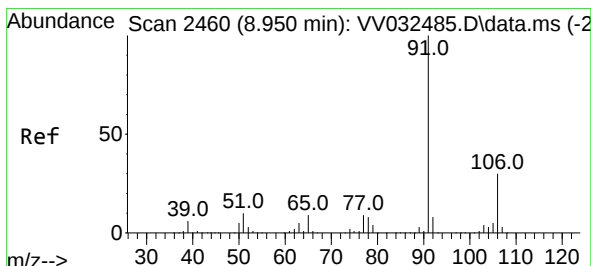
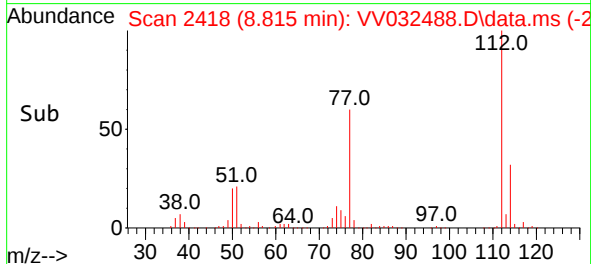
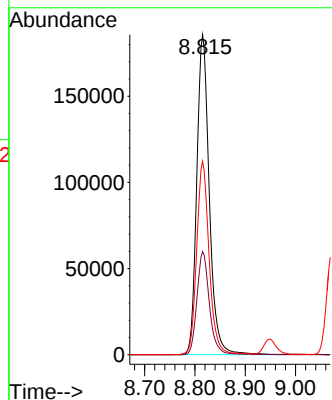
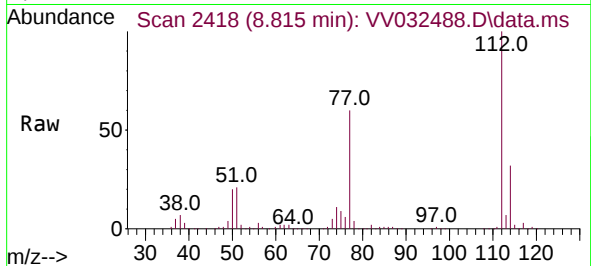




#51
Chlorobenzene
Concen: 12.096 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. 0.000 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

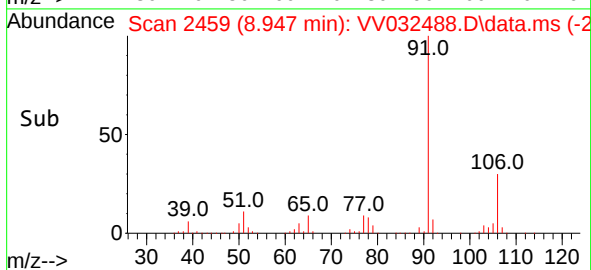
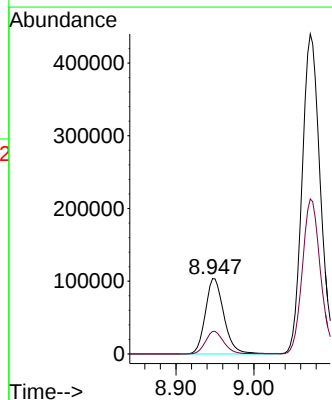
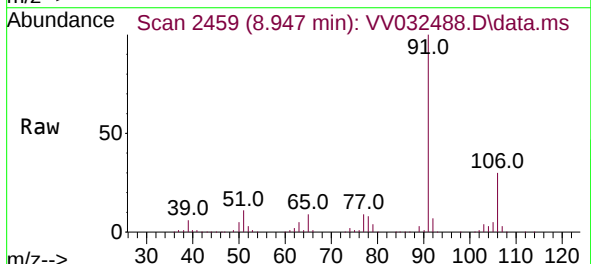
Instrument :
MSVOA_V
ClientSampleId :

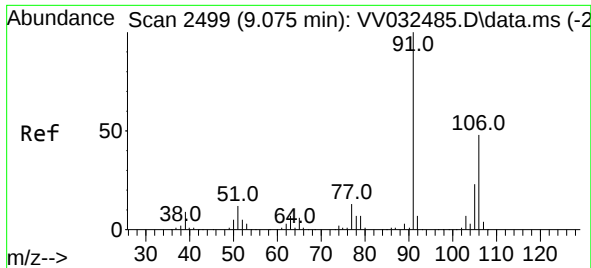
Tgt Ion:112 Resp: 321117
Ion Ratio Lower Upper
112 100
114 32.2 22.1 41.1
77 60.4 46.1 69.1



#52
Ethylbenzene
Concen: 3.744 ug/L
RT: 8.947 min Scan# 2459
Delta R.T. -0.003 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion: 91 Resp: 171904
Ion Ratio Lower Upper
91 100
106 29.9 21.3 39.5

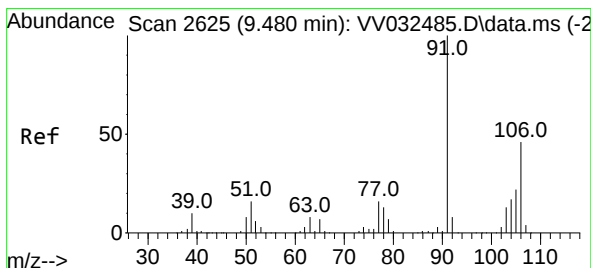
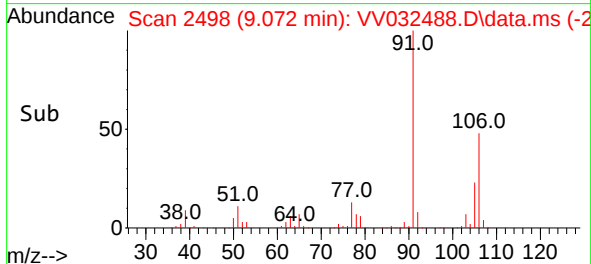
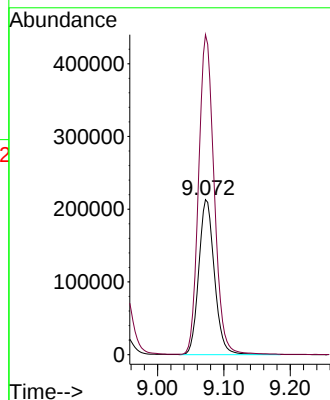
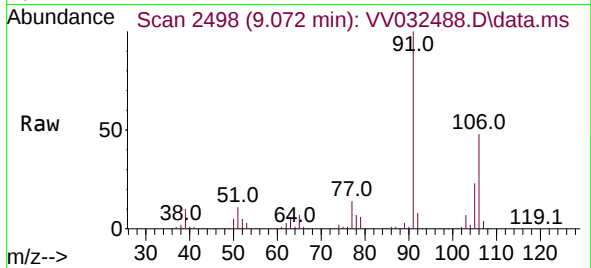




#53
m,p-Xylene
Concen: 20.515 ug/L
RT: 9.072 min Scan# 2499
Delta R.T. -0.003 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

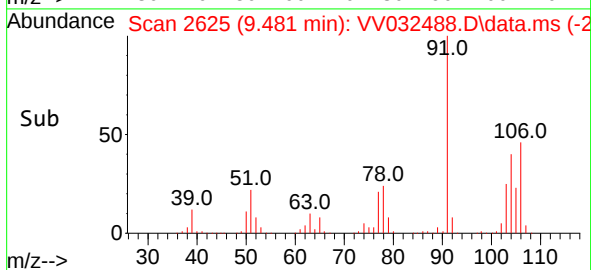
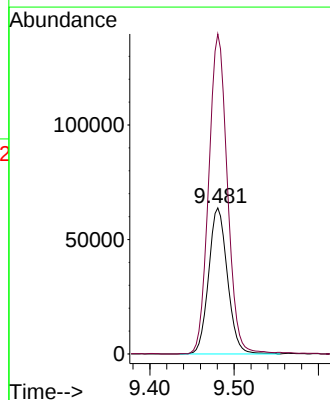
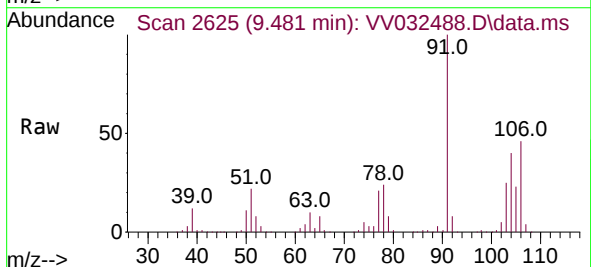
Instrument :
MSVOA_V
ClientSampleId :

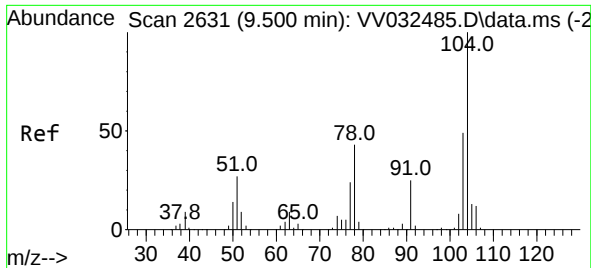
Tgt Ion:106 Resp: 349351
Ion Ratio Lower Upper
106 100
91 206.3 144.5 268.3



#54
o-Xylene
Concen: 6.039 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.000 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion:106 Resp: 99096
Ion Ratio Lower Upper
106 100
91 219.2 154.8 287.4

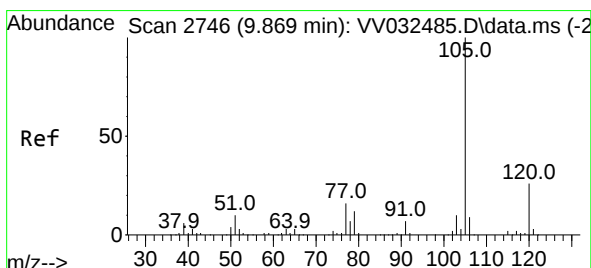
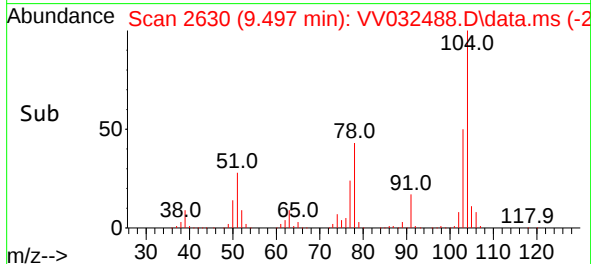
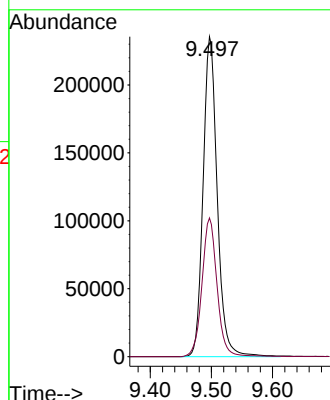
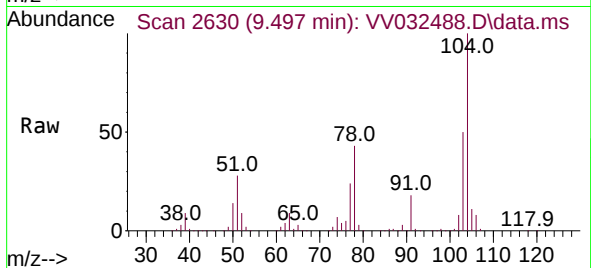




#55
Styrene
Concen: 13.653 ug/L
RT: 9.497 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

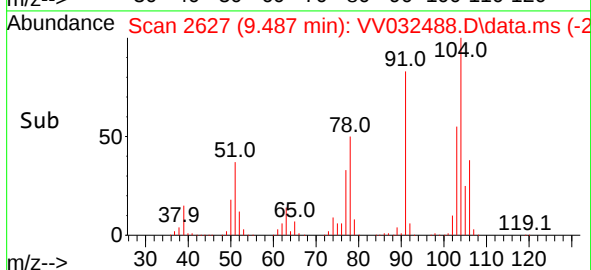
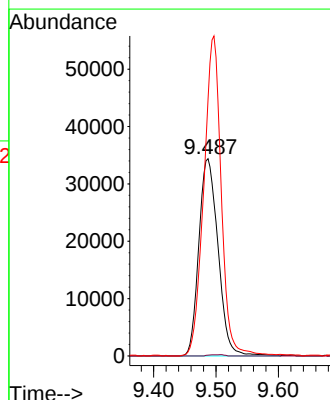
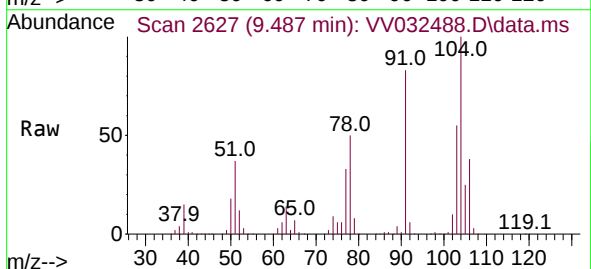
Instrument :
MSVOA_V
ClientSampleId :

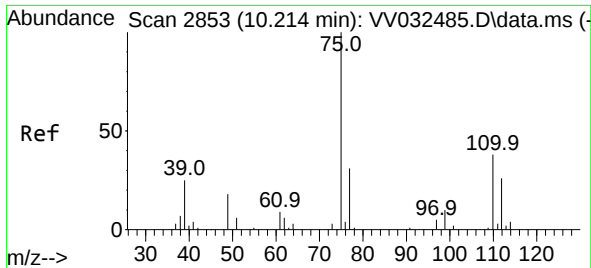
Tgt Ion:104 Resp: 378350
Ion Ratio Lower Upper
104 100
78 43.3 29.9 55.5



#60
Isopropylbenzene
Concen: 1.776 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.382 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion:105 Resp: 73722
Ion Ratio Lower Upper
105 100
120 0.5 21.0 31.6#
77 147.5 12.6 19.0#

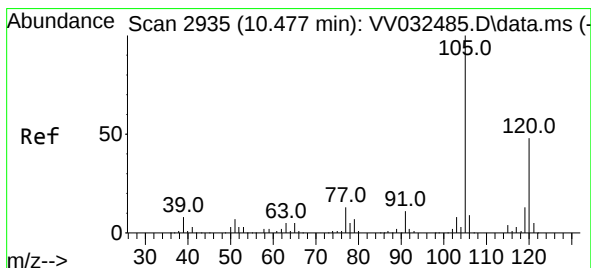
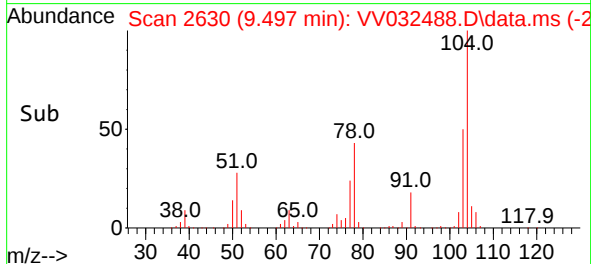
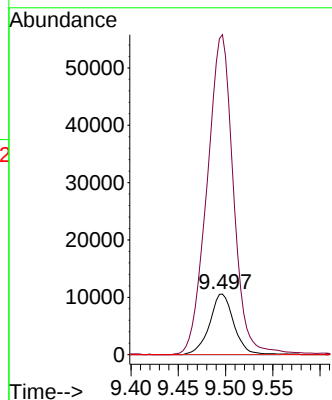
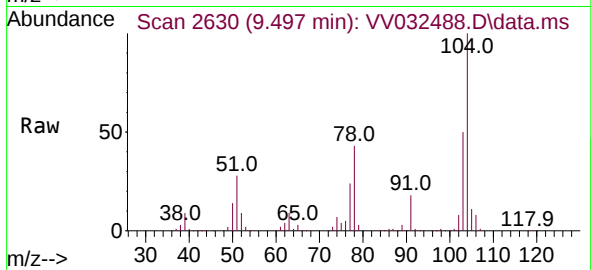




#61
1,2,3-Trichloropropane
Concen: 3.328 ug/L
RT: 9.497 min Scan# 2630
Delta R.T. -0.717 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

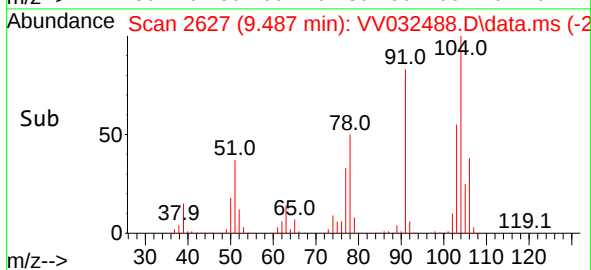
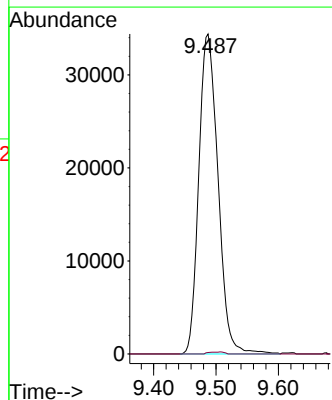
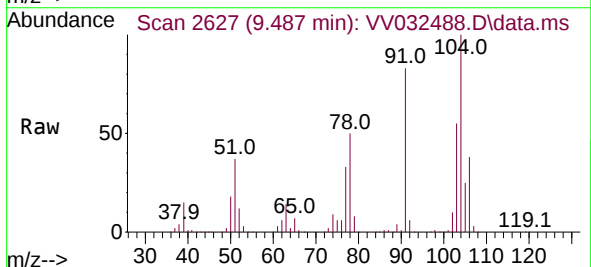
Instrument :
MSVOA_V
ClientSampleId :

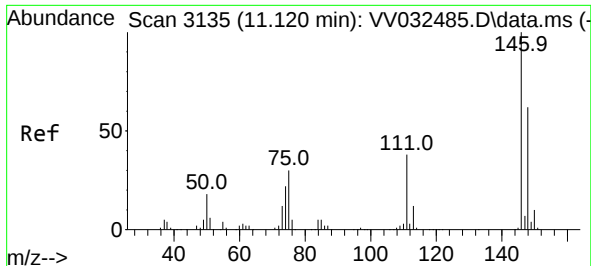
Tgt Ion: 75 Resp: 18919
Ion Ratio Lower Upper
75 100
77 574.7 26.2 39.2#
110 0.0 30.6 46.0#



#62
1,3,5-Trimethylbenzene
Concen: 2.179 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.990 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion:105 Resp: 73722
Ion Ratio Lower Upper
105 100
120 0.5 39.9 59.9#

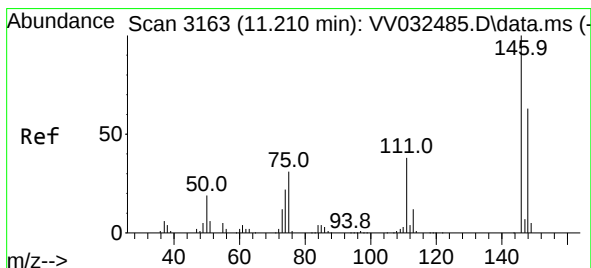
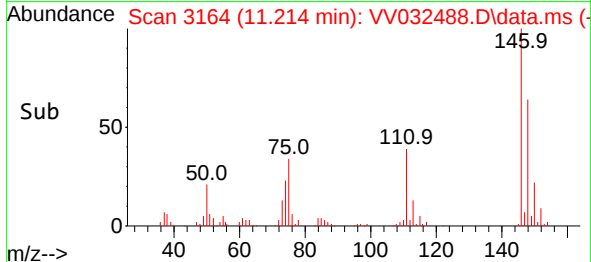
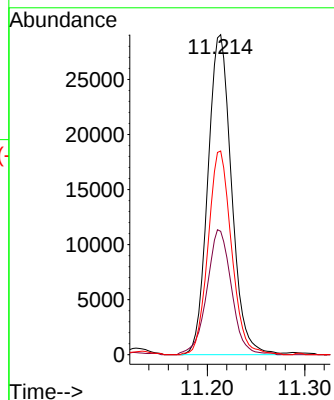
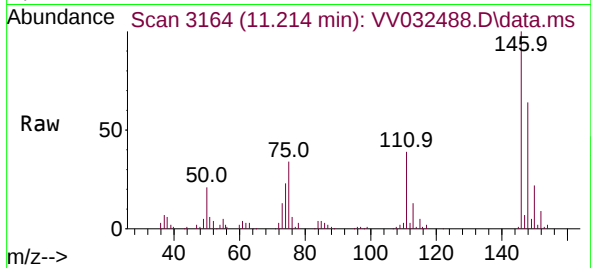




#64
1,3-Dichlorobenzene
Concen: 2.477 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.093 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

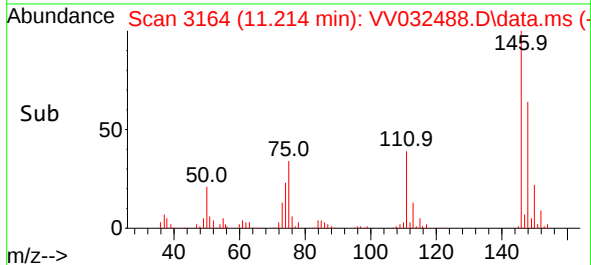
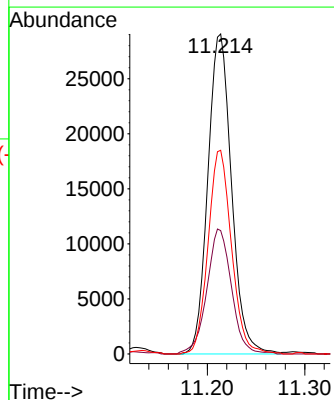
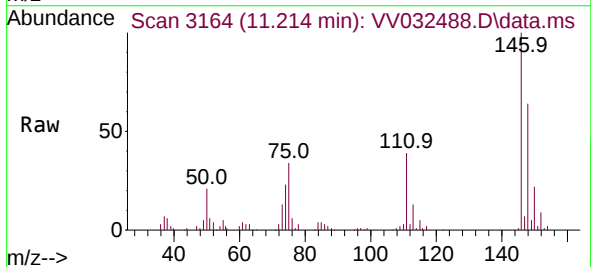
Instrument :
MSVOA_V
ClientSampleId :

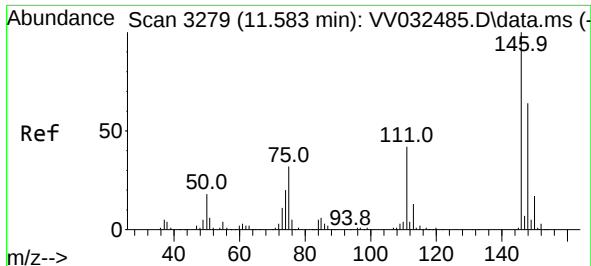
Tgt Ion:146 Resp: 49112
Ion Ratio Lower Upper
146 100
111 38.5 27.8 51.6
148 63.6 43.7 81.1



#65
1,4-Dichlorobenzene
Concen: 2.469 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV032488.D
Acq: 19 Oct 2023 11:34

Tgt Ion:146 Resp: 49112
Ion Ratio Lower Upper
146 100
111 38.5 26.9 49.9
148 63.6 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 17.300 ug/L

RT: 11.580 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV032488.D

Acq: 19 Oct 2023 11:34

Instrument :

MSVOA_V

ClientSampleId :

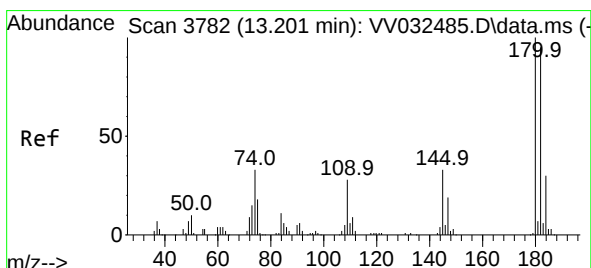
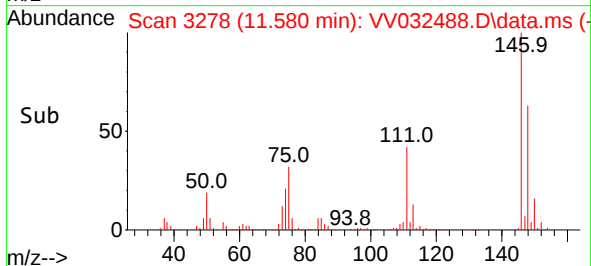
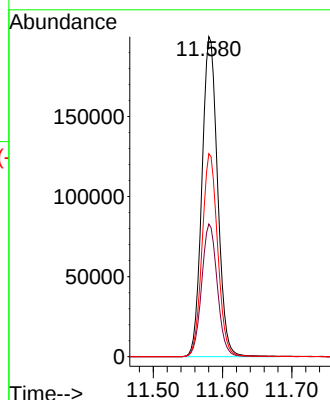
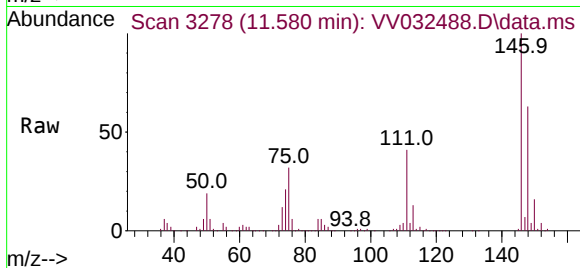
Tgt Ion:146 Resp: 312873

Ion Ratio Lower Upper

146 100

111 41.5 32.8 49.2

148 63.4 51.0 76.4



#70

1,2,4-trichlorobenzene

Concen: 4.736 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.000 min

Lab File: VV032488.D

Acq: 19 Oct 2023 11:34

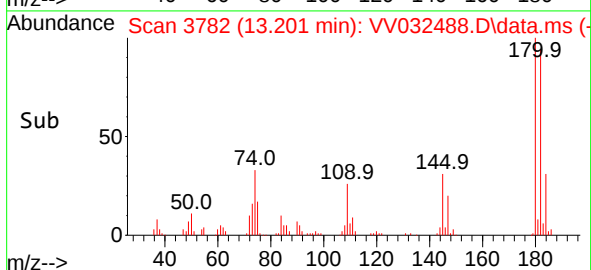
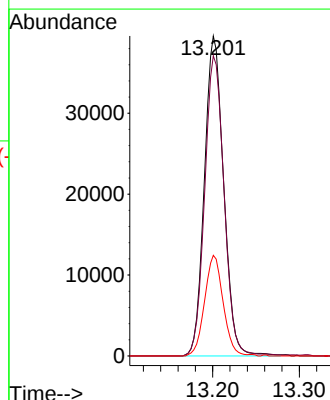
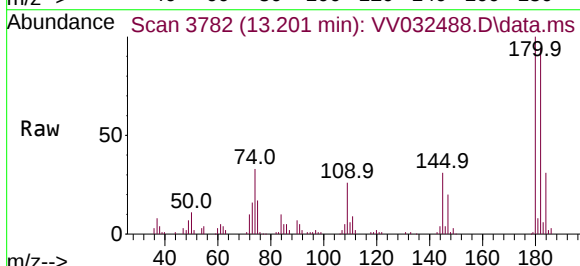
Tgt Ion:180 Resp: 61000

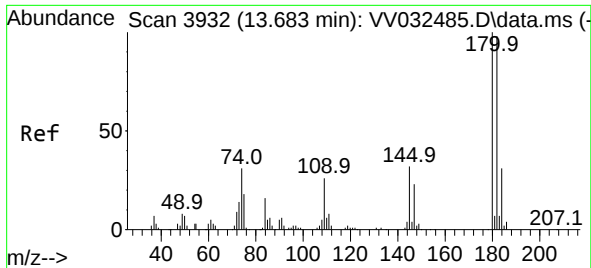
Ion Ratio Lower Upper

180 100

182 94.7 76.5 114.7

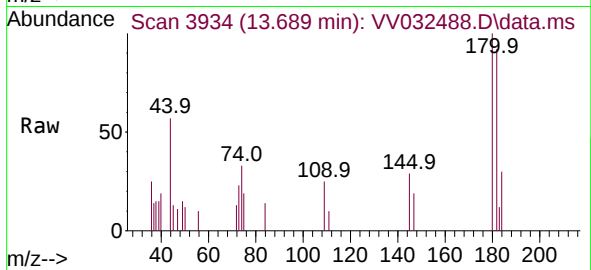
145 30.4 24.3 36.5





#72
 1,2,3-Trichlorobenzene
 Concen: 0.146 ug/L
 RT: 13.689 min Scan# 3934
 Delta R.T. 0.007 min
 Lab File: VV032488.D
 Acq: 19 Oct 2023 11:34

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	180	Resp:	1617
Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.0	115.4
145	35.1	25.7	38.5

