

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW020524\
 Data File : VW033981.D
 Acq On : 05 Feb 2024 12:21
 Operator : SY/MD
 Sample : P1289-19
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 06 05:13:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR012524WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Feb 06 05:11:25 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	90862	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	84966	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	43127	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	29142	4.141	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.800%
7) Chloroethane-d5	1.536	69	25502	4.137	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.800%
11) 1,1-Dichloroethene-d2	2.063	65	14475	4.265	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.400%
20) 2-Butanone-d5	3.806	46	44304	37.487	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.980%
24) Chloroform-d	4.253	84	53863	4.212	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
26) 1,2-Dichloroethane-d4	4.944	65	26713	4.470	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.400%
32) Benzene-d6	4.963	84	109537	4.297	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.000%
36) 1,2-Dichloropropane-d6	5.989	67	31697	4.448	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.000%
41) Toluene-d8	7.246	98	100457	4.288	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.800%
43) trans-1,3-Dichloroprop...	7.561	79	10864	4.038	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.800%
46) 2-Hexanone-d5	8.027	63	36295	37.787	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.580%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	17713	4.100	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.000%
66) 1,2-Dichlorobenzene-d4	11.561	152	34659	4.419	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	22033	2.539	ug/L	92
12) 1,1-Dichloroethene	2.073	96	100994	15.911	ug/L #	75
16) Methylene chloride	2.449	84	88755	14.573	ug/L	95
18) trans-1,2-Dichloroethene	2.696	96	120057	18.570	ug/L	98
22) cis-1,2-Dichloroethene	3.815	96	22857	3.116	ug/L	99
27) 1,2-Dichloroethane	5.040	62	86033	12.512	ug/L	100
29) 1,1,1-Trichloroethane	4.513	97	38998	3.419	ug/L	99
31) Carbon tetrachloride	4.738	117	28955	2.901	ug/L	98
33) Benzene	5.011	78	159415	6.256	ug/L	100
34) Trichloroethene	5.838	95	23436	3.178	ug/L	95
35) Methylcyclohexane	5.989	83	7740	0.669	ug/L #	19
37) 1,2-Dichloropropane	6.095	63	21894	3.547	ug/L	100
39) cis-1,3-Dichloropropene	6.921	75	972	0.103	ug/L #	69
42) Toluene	7.313	91	238494	8.756	ug/L	97
45) 1,1,2-Trichloroethane	7.767	97	45731	11.997	ug/L	97
47) Tetrachloroethene	7.905	164	90740	15.141	ug/L	98
48) 2-Hexanone	8.092	43	5579	2.677	ug/L #	93
49) Dibromochloromethane	7.905	129	82290	18.167	ug/L #	11
51) Chlorobenzene	8.812	112	210659	12.233	ug/L	100

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Feb 06 05:11:25 2024
Response via : Initial Calibration

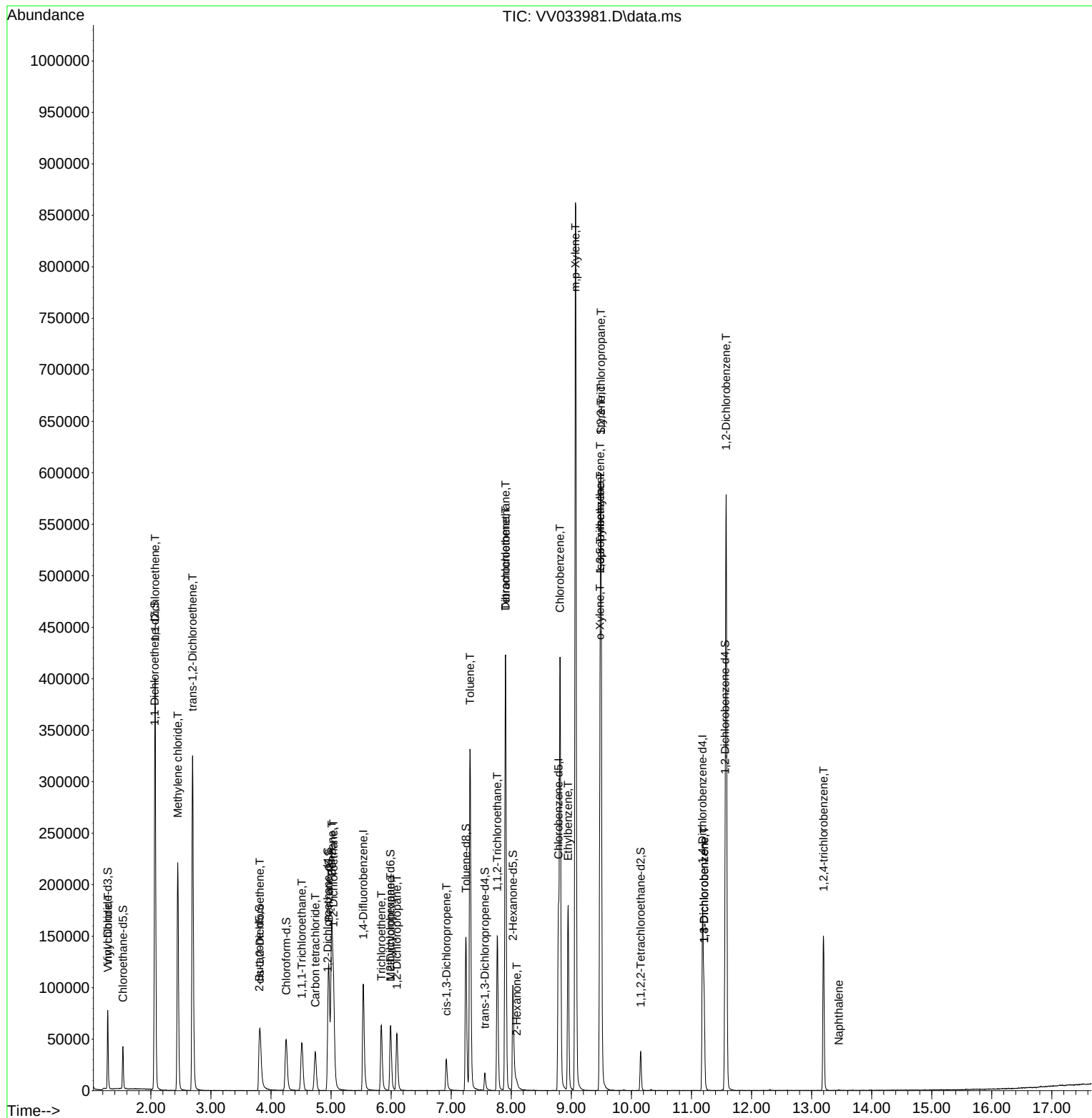
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	8.947	91	124099	3.958	ug/L	100
53) m,p-Xylene	9.069	106	232816	19.651	ug/L	100
54) o-Xylene	9.477	106	69424	6.077	ug/L	100
55) Styrene	9.493	104	245957	13.446	ug/L	100
60) Isopropylbenzene	9.481	105	50287	1.576	ug/L #	1
61) 1,2,3-Trichloropropane	9.493	75	13511	4.557	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.481	105	50287	1.864	ug/L #	29
64) 1,3-Dichlorobenzene	11.210	146	35184	2.529	ug/L	96
65) 1,4-Dichlorobenzene	11.210	146	35184	2.554	ug/L	98
67) 1,2-Dichlorobenzene	11.577	146	206033	17.241	ug/L	97
70) 1,2,4-trichlorobenzene	13.197	180	44357	5.277	ug/L	99
71) Naphthalene	13.455	128	813	0.074	ug/L #	69

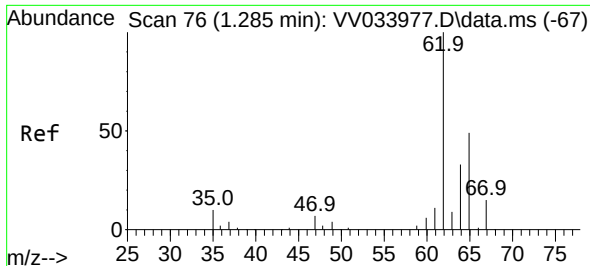
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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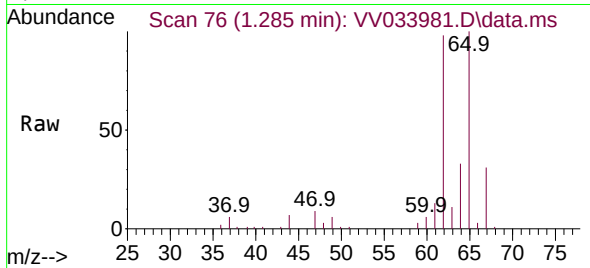
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR012524WMA.M
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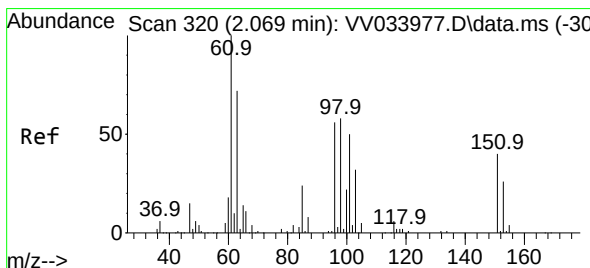
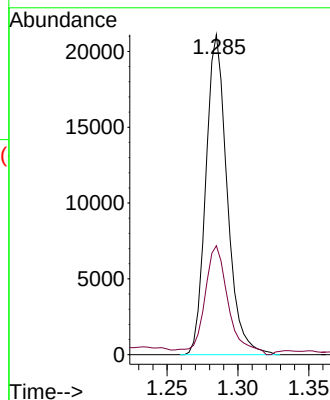
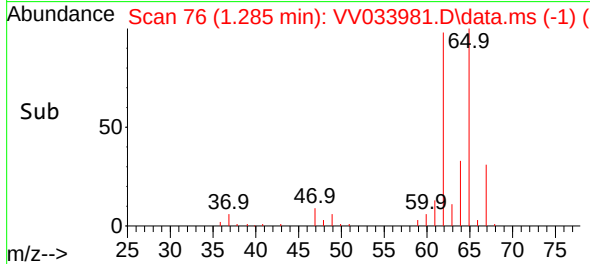


#5
 Vinyl chloride
 Concen: 2.539 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. 0.000 min
 Lab File: VV033981.D
 Acq: 05 Feb 2024 12:21

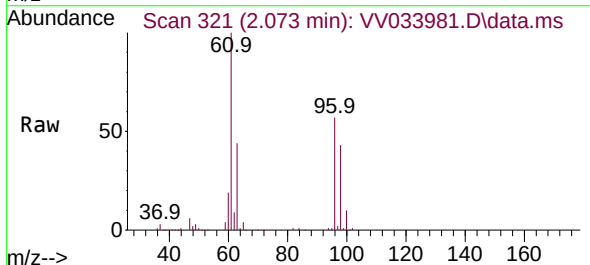
Instrument :
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 ClientSampleId :



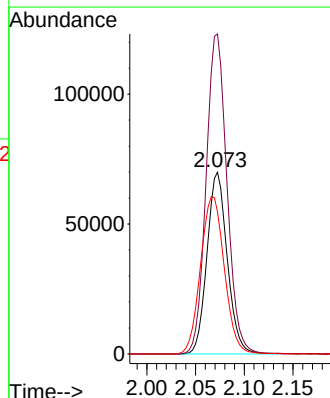
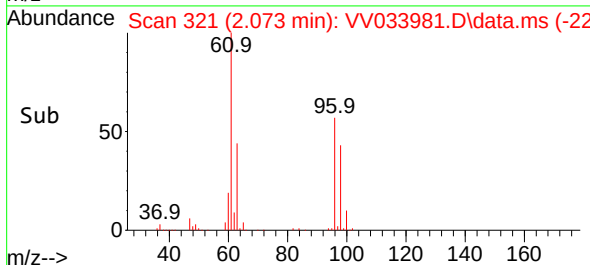
Tgt Ion: 62 Resp: 22033
 Ion Ratio Lower Upper
 62 100
 64 34.0 27.2 50.4

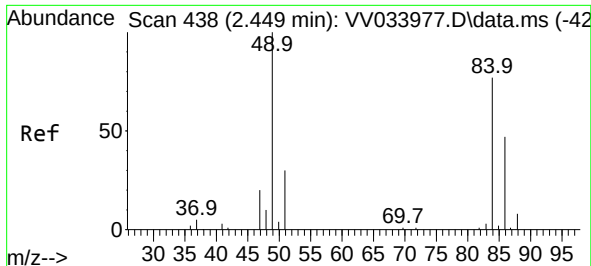


#12
 1,1-Dichloroethene
 Concen: 15.911 ug/L
 RT: 2.073 min Scan# 321
 Delta R.T. 0.003 min
 Lab File: VV033981.D
 Acq: 05 Feb 2024 12:21



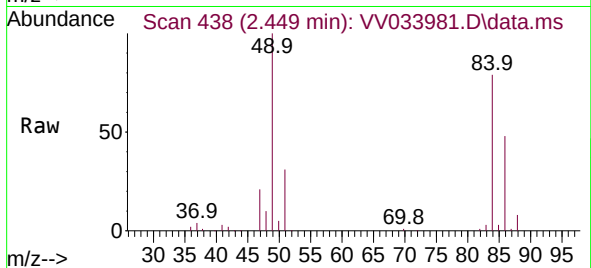
Tgt Ion: 96 Resp: 100994
 Ion Ratio Lower Upper
 96 100
 61 176.0 128.8 239.2
 63 78.2 97.9 181.9#



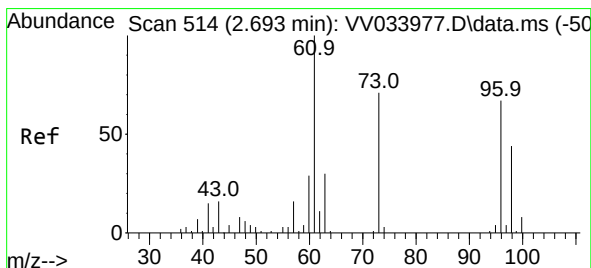
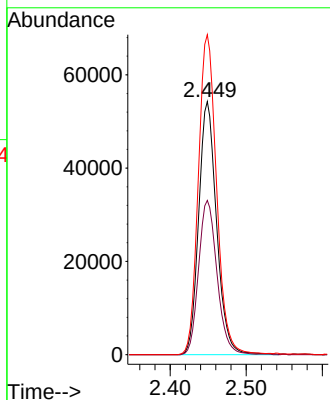
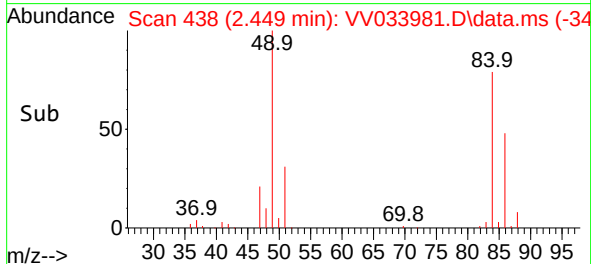


#16
Methylene chloride
Concen: 14.573 ug/L
RT: 2.449 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Instrument :
MSVOA_V
ClientSampleId :

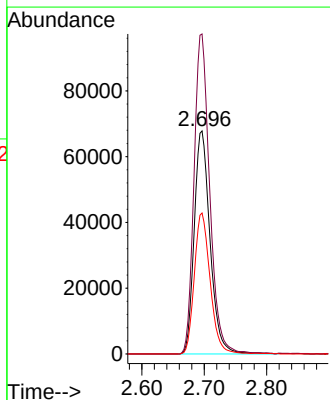
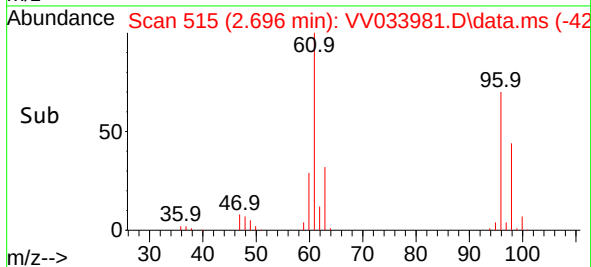
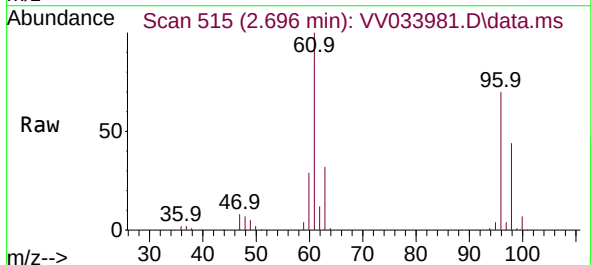


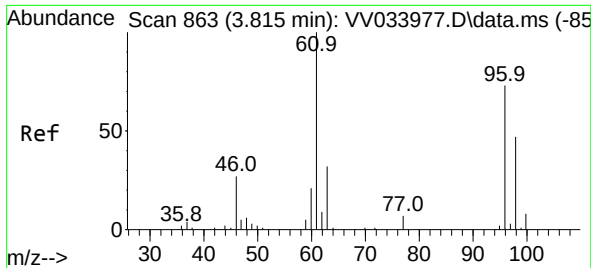
Tgt Ion: 84 Resp: 88755
Ion Ratio Lower Upper
84 100
86 60.9 44.7 83.1
49 126.4 93.7 173.9



#18
trans-1,2-Dichloroethene
Concen: 18.570 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.003 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Tgt Ion: 96 Resp: 120057
Ion Ratio Lower Upper
96 100
61 143.4 97.6 181.4
98 63.2 44.4 82.5

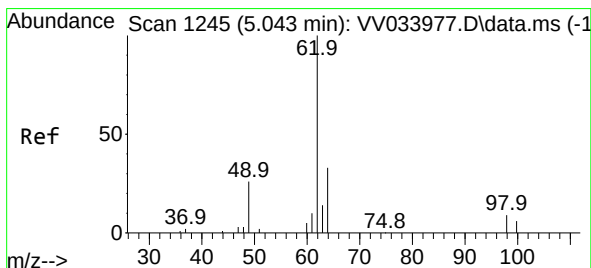
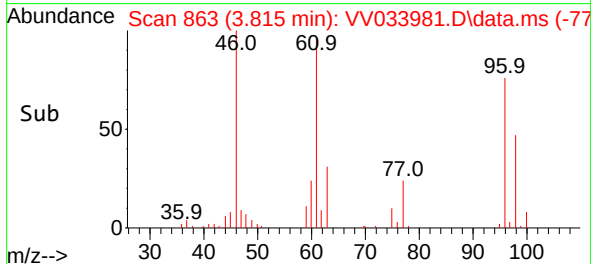
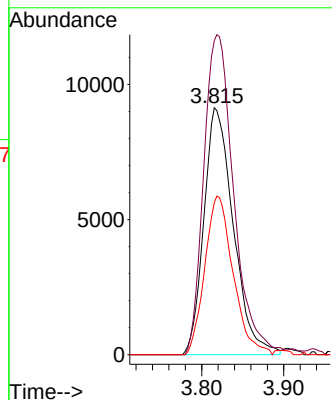
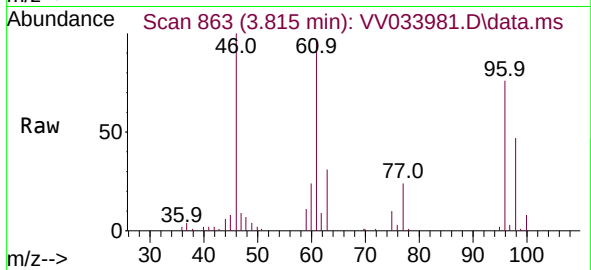




#22
 cis-1,2-Dichloroethene
 Concen: 3.116 ug/L
 RT: 3.815 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VV033981.D
 Acq: 05 Feb 2024 12:21

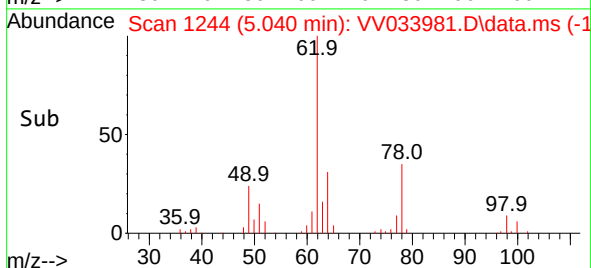
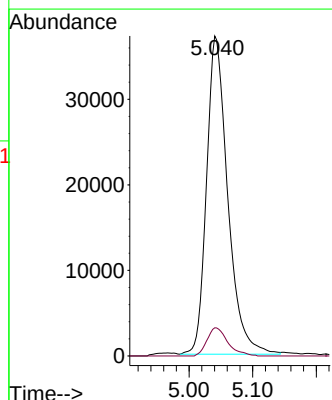
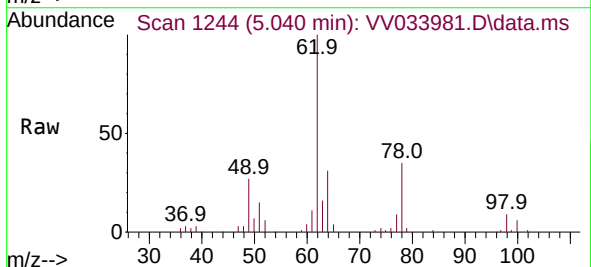
Instrument :
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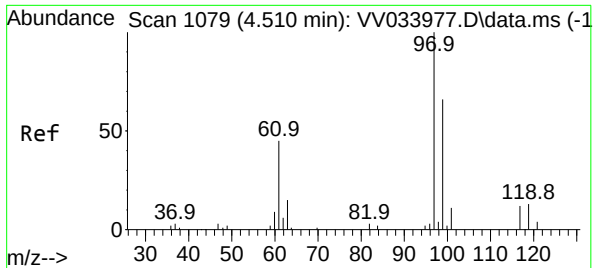
Tgt Ion: 96 Resp: 22857
 Ion Ratio Lower Upper
 96 100
 61 127.2 90.3 167.7
 98 61.6 43.2 80.2



#27
 1,2-Dichloroethane
 Concen: 12.512 ug/L
 RT: 5.040 min Scan# 1244
 Delta R.T. -0.003 min
 Lab File: VV033981.D
 Acq: 05 Feb 2024 12:21

Tgt Ion: 62 Resp: 86033
 Ion Ratio Lower Upper
 62 100
 98 8.8 6.9 10.3

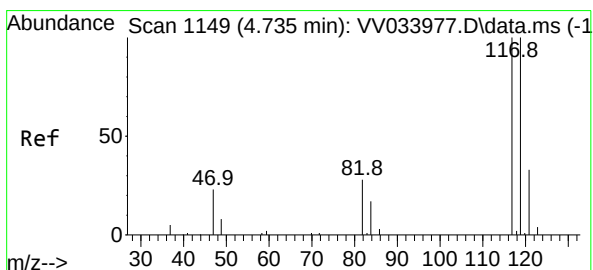
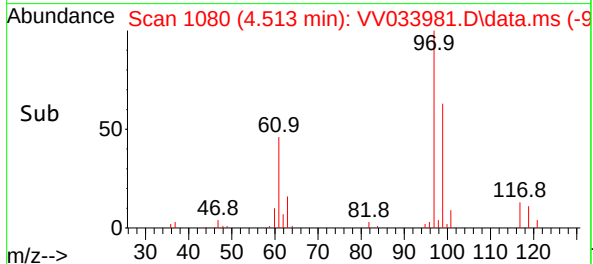
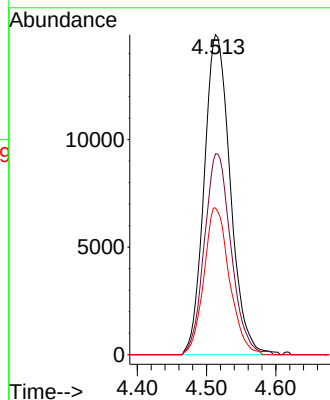
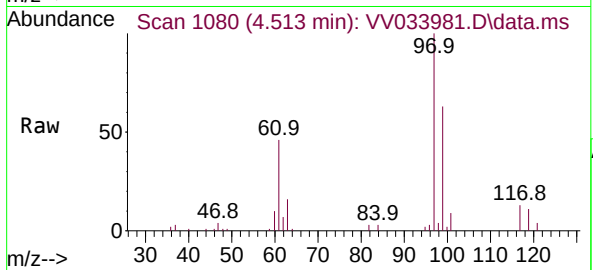




#29
1,1,1-Trichloroethane
Concen: 3.419 ug/L
RT: 4.513 min Scan# 1150
Delta R.T. 0.003 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

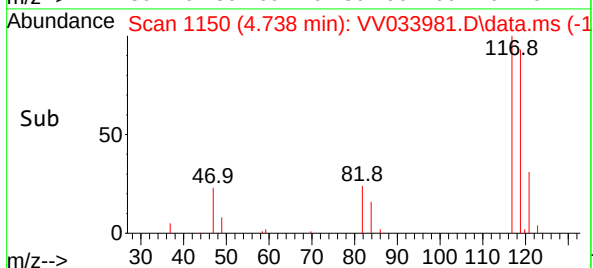
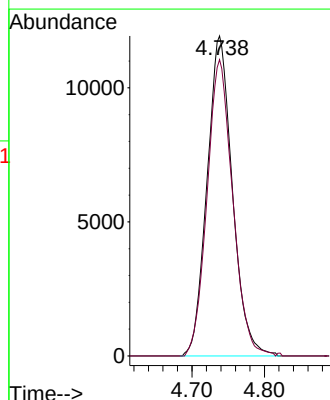
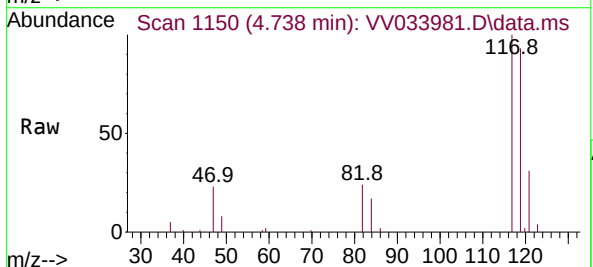
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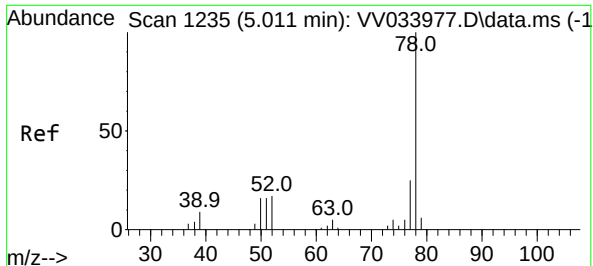
Tgt Ion: 97 Resp: 38998
Ion Ratio Lower Upper
97 100
99 63.9 50.6 75.8
61 44.8 36.8 55.2



#31
Carbon tetrachloride
Concen: 2.901 ug/L
RT: 4.738 min Scan# 1150
Delta R.T. 0.003 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Tgt Ion: 117 Resp: 28955
Ion Ratio Lower Upper
117 100
119 93.6 76.1 114.1

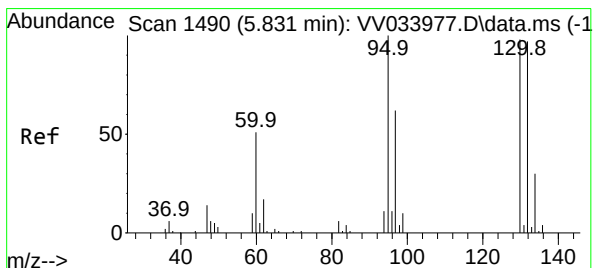
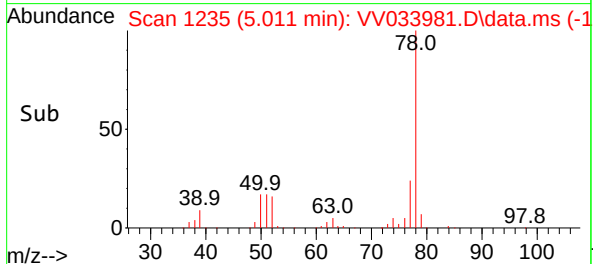
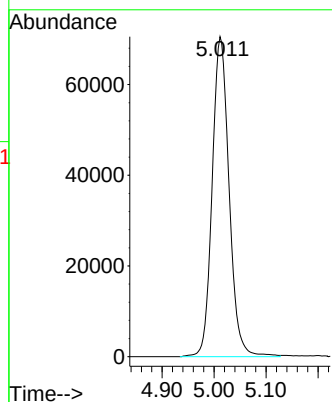
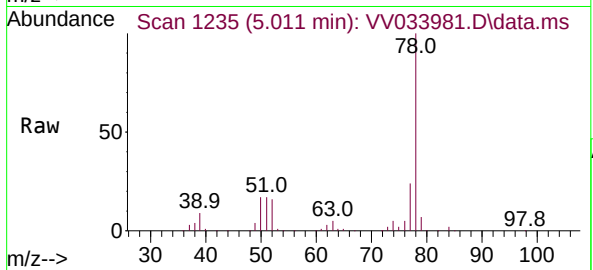




#33
Benzene
Concen: 6.256 ug/L
RT: 5.011 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

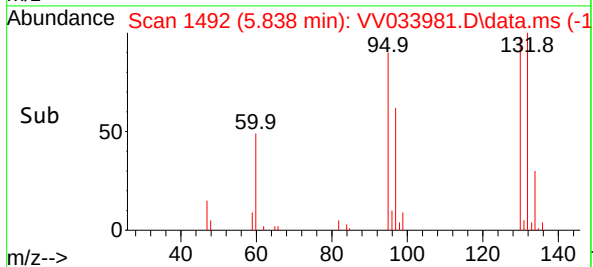
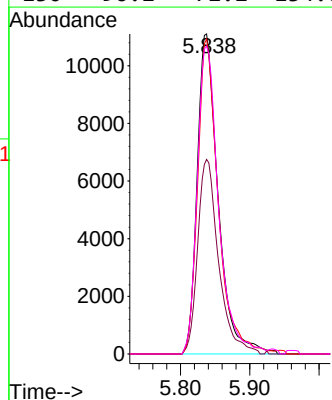
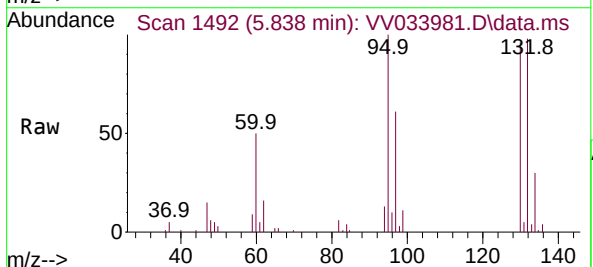
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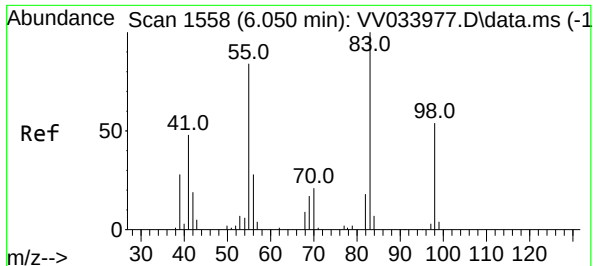
Tgt Ion: 78 Resp: 159415



#34
Trichloroethene
Concen: 3.178 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. 0.006 min
Lab File: VV033981.D
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Tgt Ion: 95 Resp: 23436
Ion Ratio Lower Upper
95 100
97 60.8 45.1 83.7
132 98.4 66.0 122.6
130 96.2 72.2 134.0





#35

Methylcyclohexane

Concen: 0.669 ug/L

RT: 5.989 min Scan# 1539

Delta R.T. -0.061 min

Lab File: VV033981.D

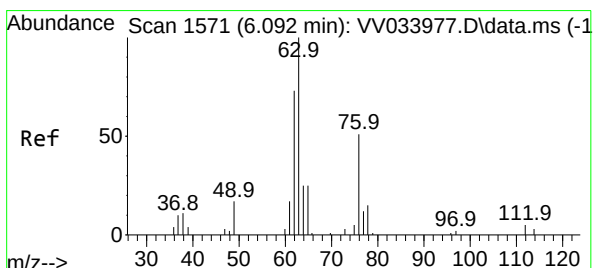
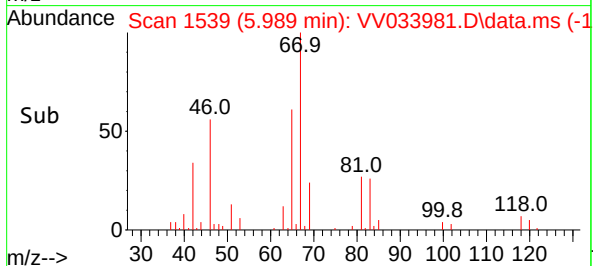
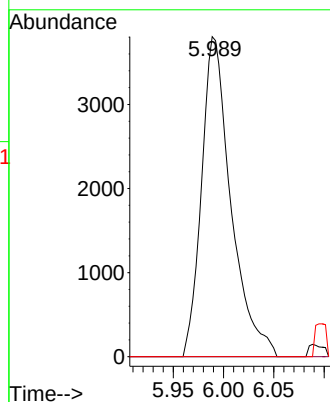
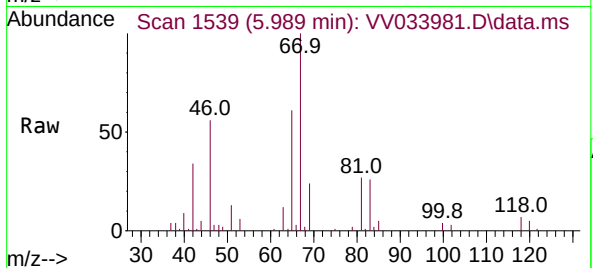
Acq: 05 Feb 2024 12:21

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 7740
Ion Ratio	Lower Upper
83	100
55	0.0 63.5 95.3#
98	3.8 39.0 58.4#



#37

1,2-Dichloropropane

Concen: 3.547 ug/L

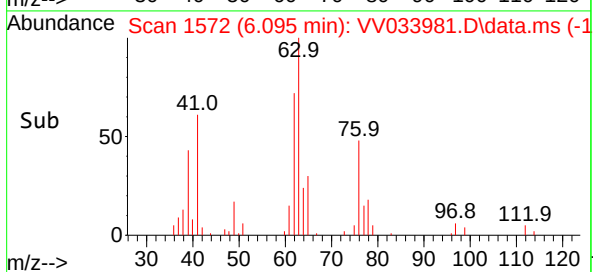
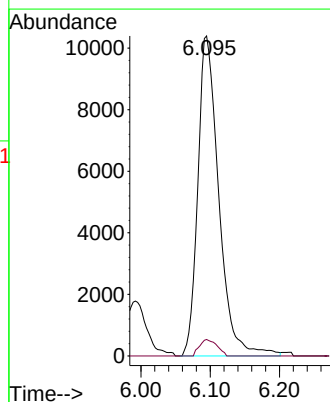
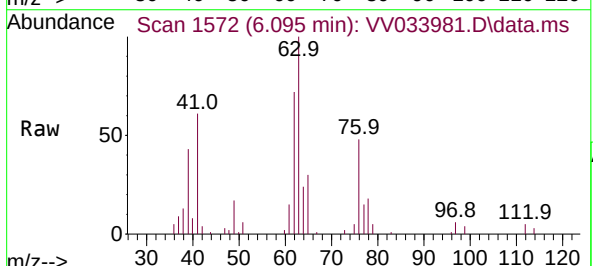
RT: 6.095 min Scan# 1572

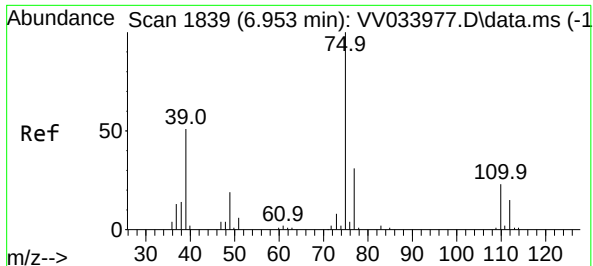
Delta R.T. 0.003 min

Lab File: VV033981.D

Acq: 05 Feb 2024 12:21

Tgt Ion: 63	Resp: 21894
Ion Ratio	Lower Upper
63	100
112	4.3 3.4 5.0





#39

cis-1,3-Dichloropropene

Concen: 0.103 ug/L

RT: 6.921 min Scan# 1829

Delta R.T. -0.032 min

Lab File: VV033981.D

Acq: 05 Feb 2024 12:21

Instrument :

MSVOA_V

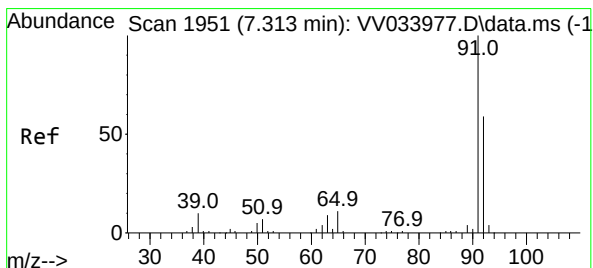
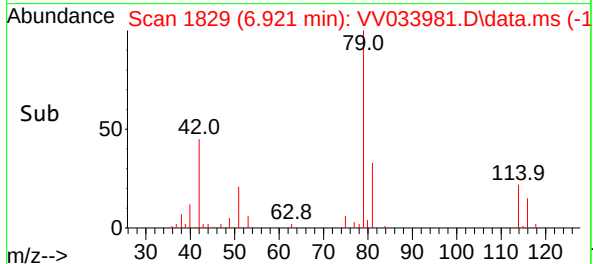
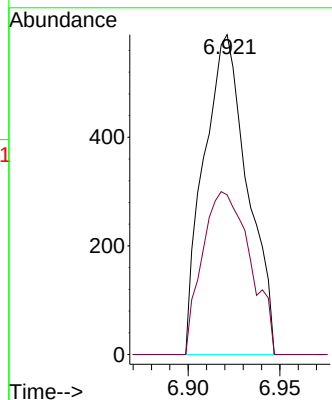
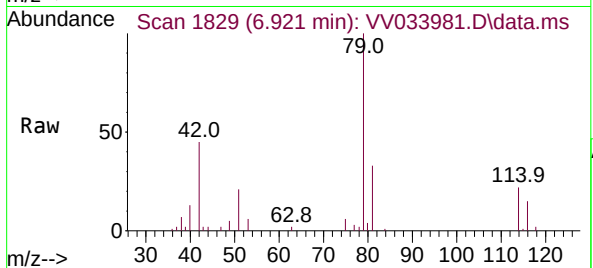
ClientSampleId :

Tgt Ion: 75 Resp: 972

Ion Ratio Lower Upper

75 100

77 49.9 22.9 42.5#



#42

Toluene

Concen: 8.756 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VV033981.D

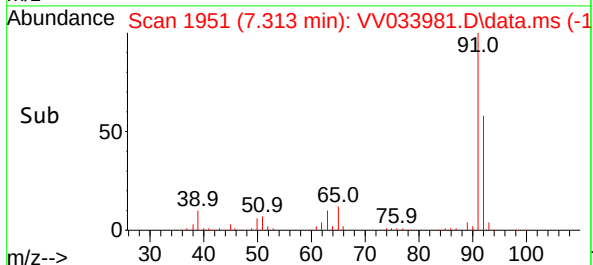
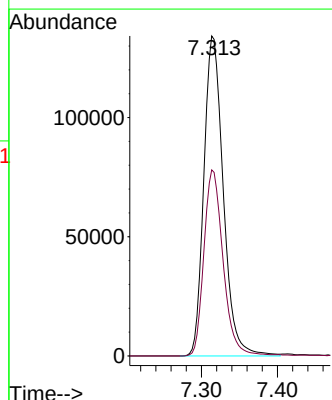
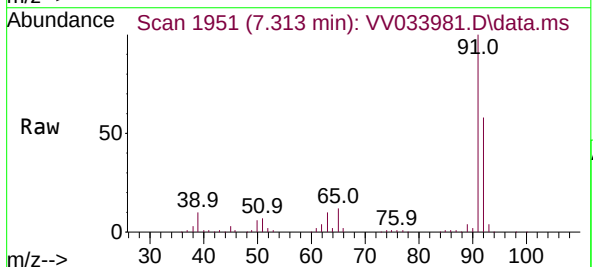
Acq: 05 Feb 2024 12:21

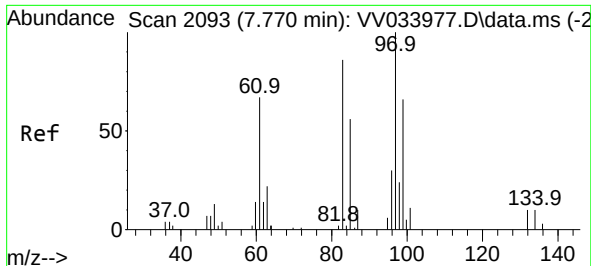
Tgt Ion: 91 Resp: 238494

Ion Ratio Lower Upper

91 100

92 58.2 42.1 78.3





#45

1,1,2-Trichloroethane

Concen: 11.997 ug/L

RT: 7.767 min Scan# 2093

Delta R.T. -0.003 min

Lab File: VV033981.D

Acq: 05 Feb 2024 12:21

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 97 Resp: 45731

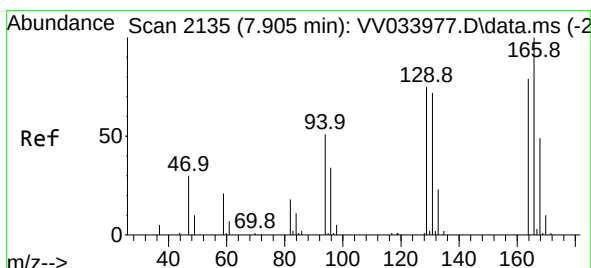
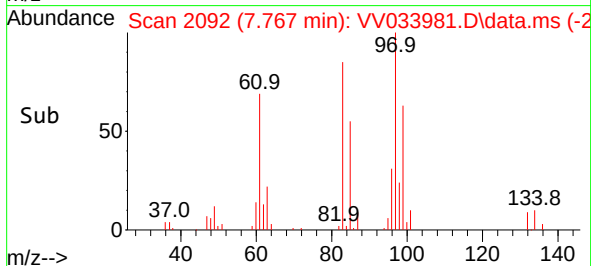
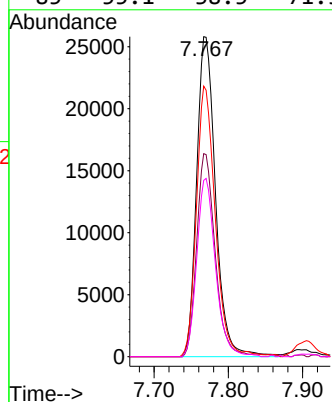
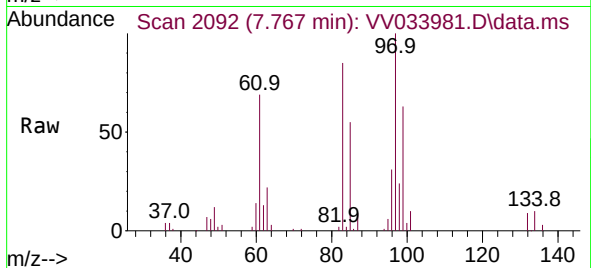
Ion Ratio Lower Upper

97 100

99 63.4 45.6 84.6

83 84.6 62.3 115.7

85 55.1 38.5 71.5



#47

Tetrachloroethene

Concen: 15.141 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.000 min

Lab File: VV033981.D

Acq: 05 Feb 2024 12:21

Tgt Ion: 164 Resp: 90740

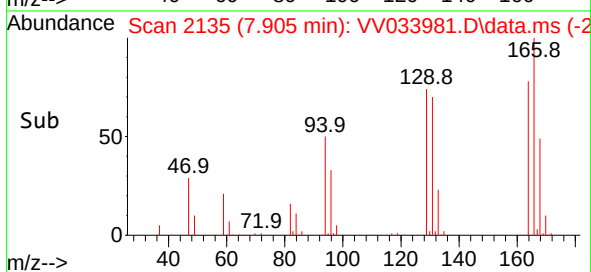
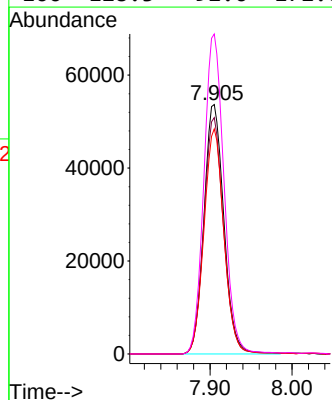
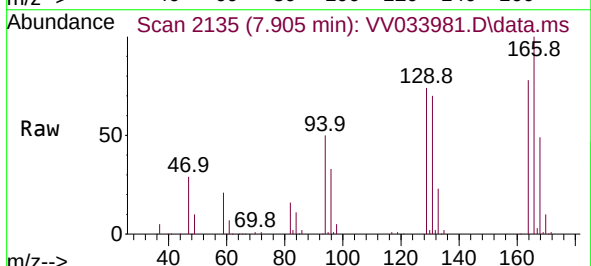
Ion Ratio Lower Upper

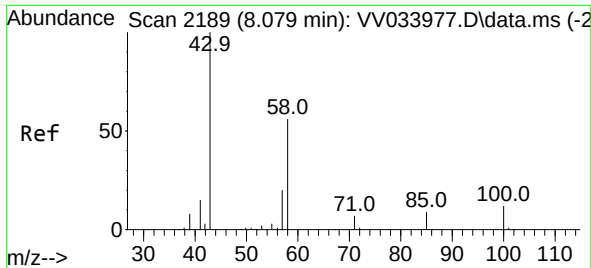
164 100

129 94.8 67.8 125.8

131 90.2 63.0 117.0

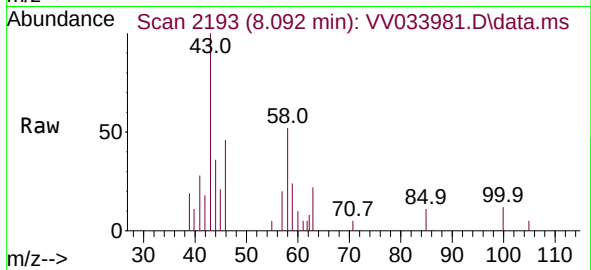
166 128.3 92.6 172.0



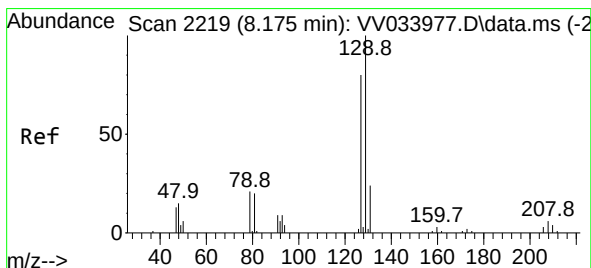
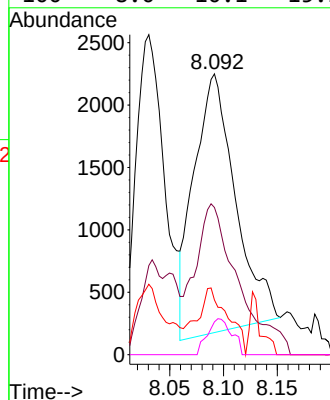
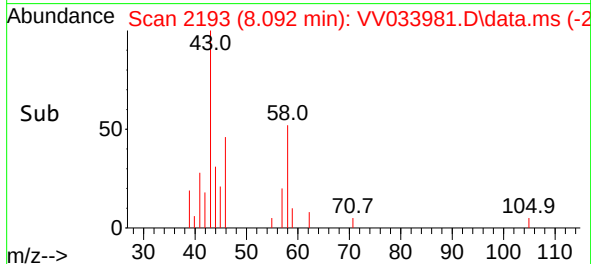


#48
2-Hexanone
Concen: 2.677 ug/L
RT: 8.092 min Scan# 2189
Delta R.T. 0.013 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Instrument :
MSVOA_V
ClientSampleId :

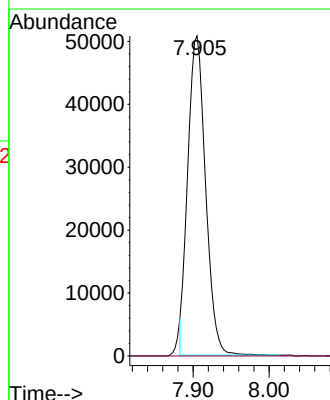
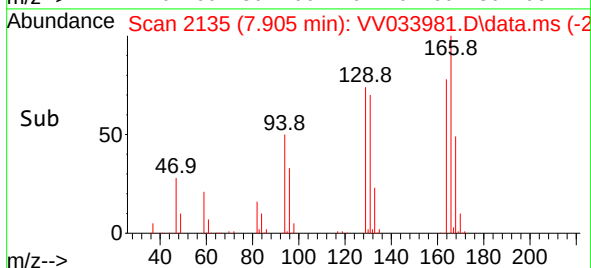
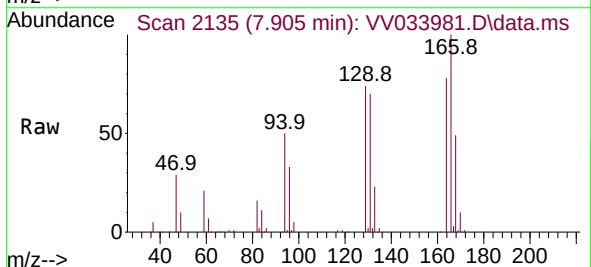


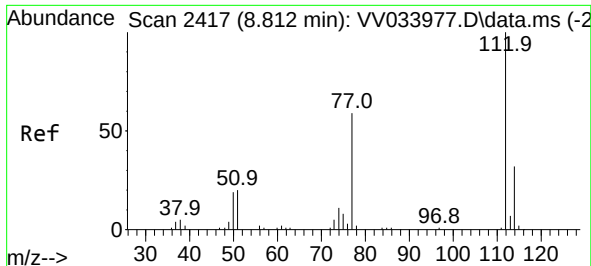
Tgt Ion: 43 Resp: 5579
Ion Ratio Lower Upper
43 100
58 59.9 42.6 64.0
57 19.4 15.5 23.3
100 8.0 10.1 15.1#



#49
Dibromochloromethane
Concen: 18.167 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.270 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Tgt Ion: 129 Resp: 82290
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.5#

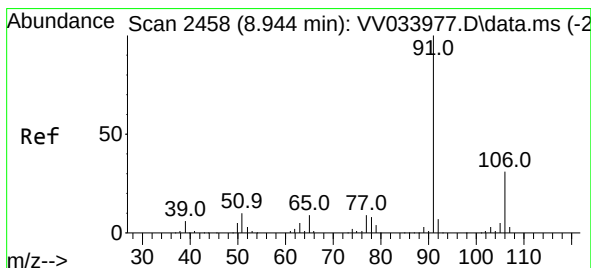
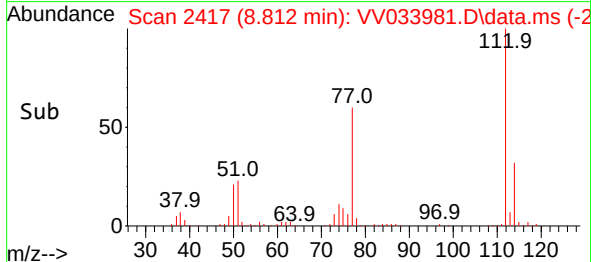
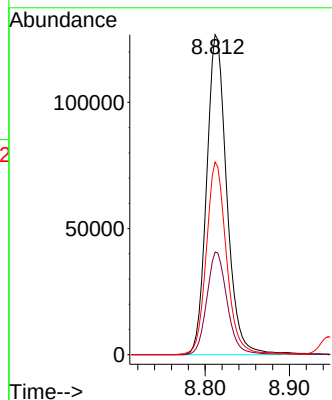
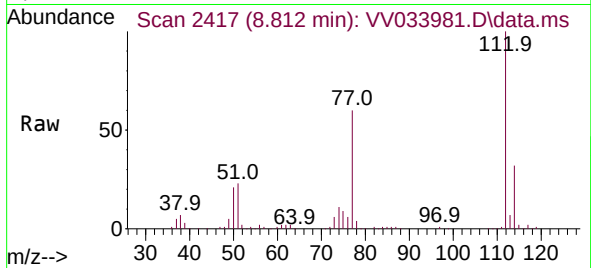




#51
Chlorobenzene
Concen: 12.233 ug/L
RT: 8.812 min Scan# 2417
Delta R.T. 0.000 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

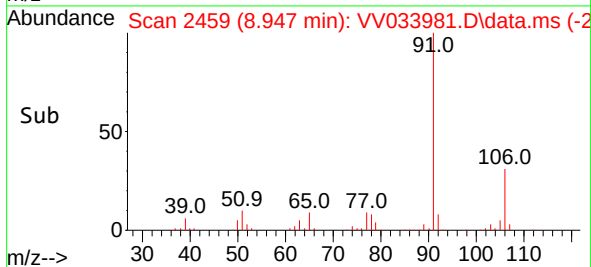
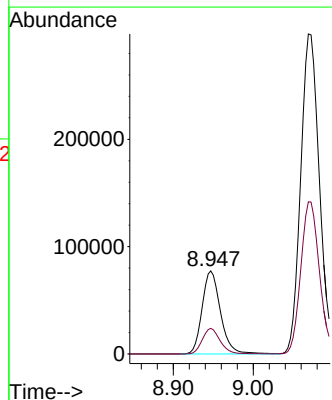
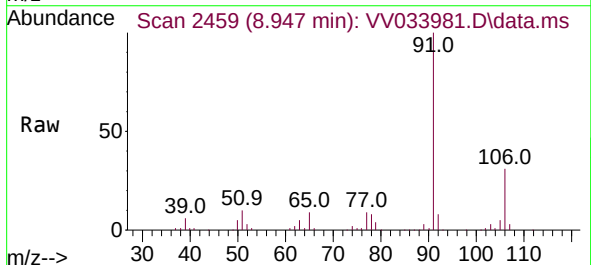
Instrument :
MSVOA_V
ClientSampleId :

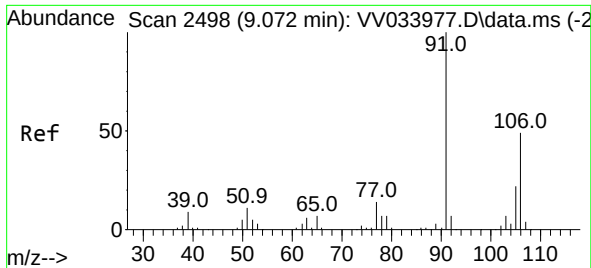
Tgt Ion:112 Resp: 210659
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.7
77 60.2 48.1 72.1



#52
Ethylbenzene
Concen: 3.958 ug/L
RT: 8.947 min Scan# 2459
Delta R.T. 0.003 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Tgt Ion: 91 Resp: 124099
Ion Ratio Lower Upper
91 100
106 30.8 21.4 39.8

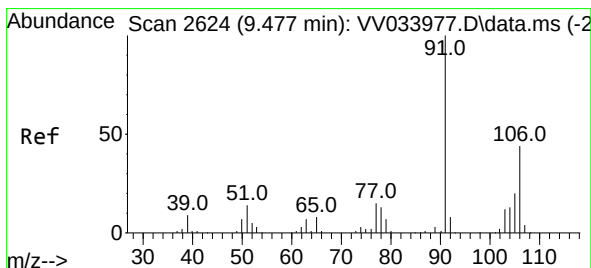
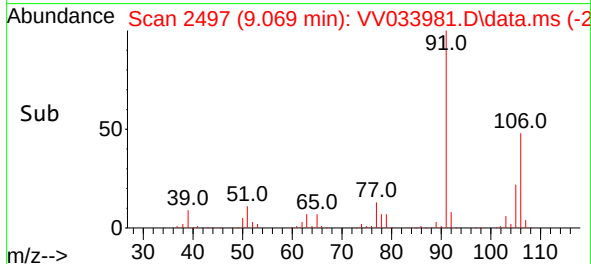
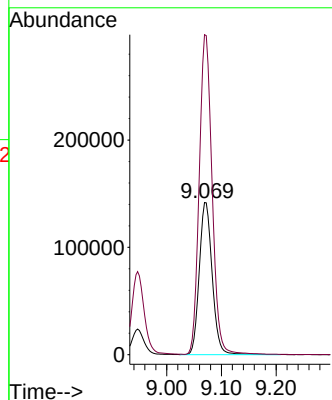
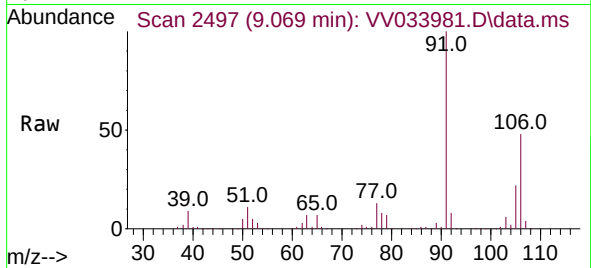




#53
m,p-Xylene
Concen: 19.651 ug/L
RT: 9.069 min Scan# 2498
Delta R.T. -0.003 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

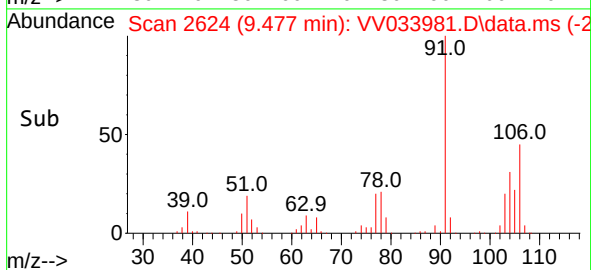
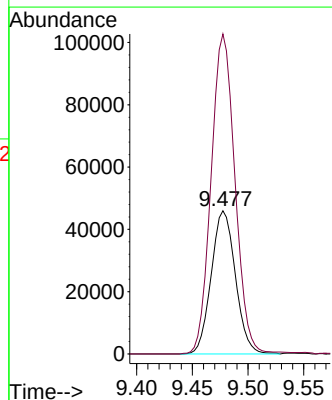
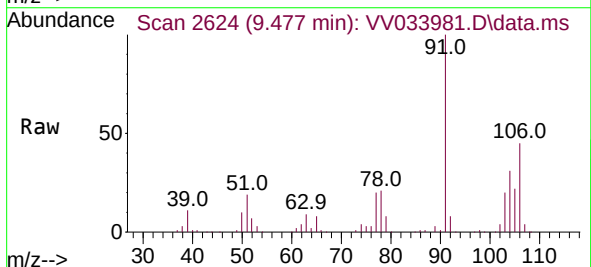
Instrument :
MSVOA_V
ClientSampleId :

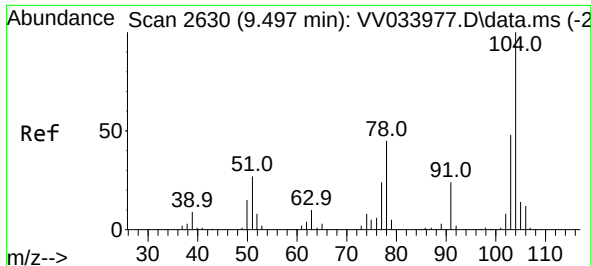
Tgt Ion:106 Resp: 232816
Ion Ratio Lower Upper
106 100
91 210.2 147.5 273.9



#54
o-Xylene
Concen: 6.077 ug/L
RT: 9.477 min Scan# 2624
Delta R.T. 0.000 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Tgt Ion:106 Resp: 69424
Ion Ratio Lower Upper
106 100
91 223.6 156.2 290.0

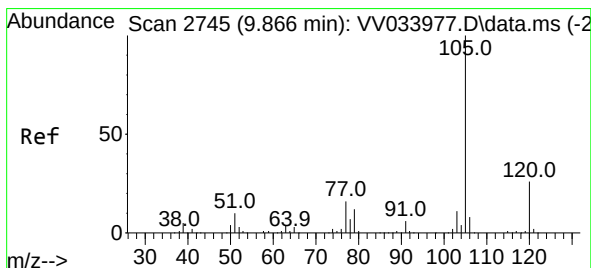
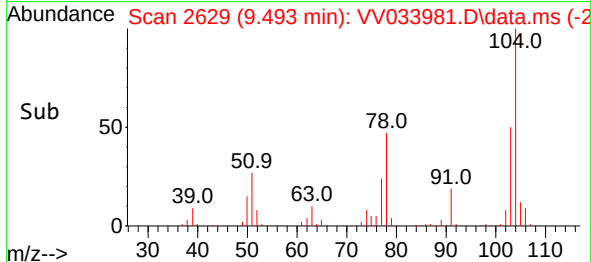
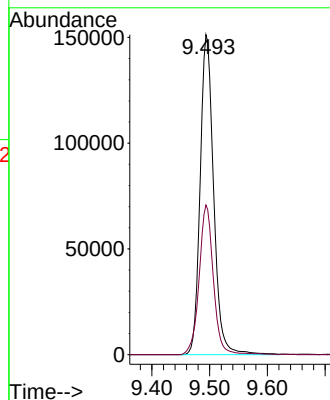
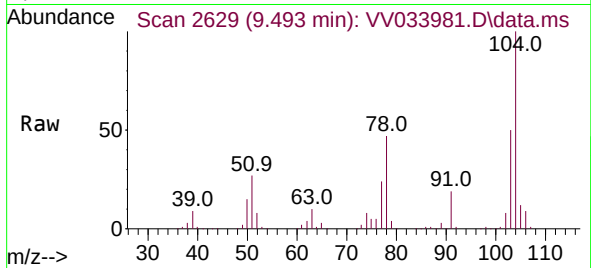




#55
Styrene
Concen: 13.446 ug/L
RT: 9.493 min Scan# 2629
Delta R.T. -0.003 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

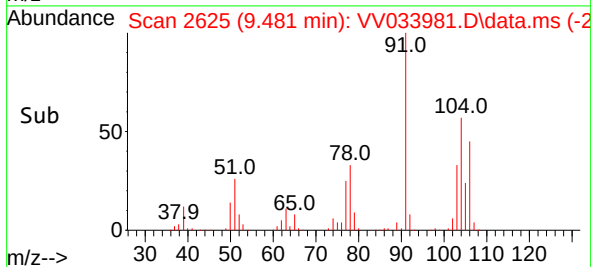
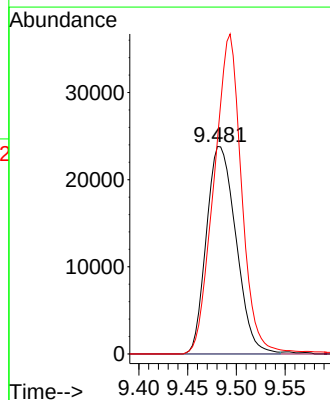
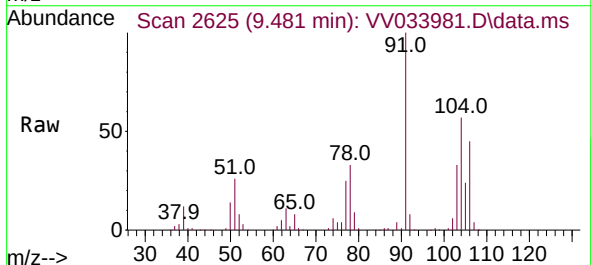
Instrument :
MSVOA_V
ClientSampleId :

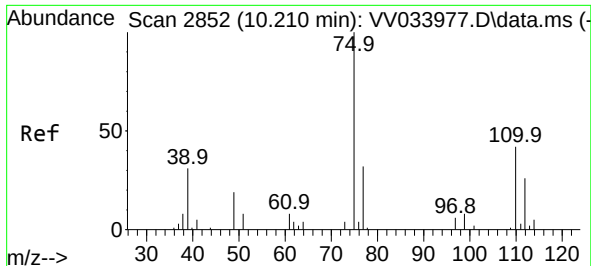
Tgt Ion:104 Resp: 245957
Ion Ratio Lower Upper
104 100
78 46.8 32.9 61.1



#60
Isopropylbenzene
Concen: 1.576 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. -0.386 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

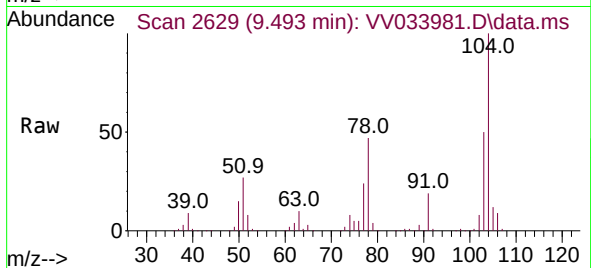
Tgt Ion:105 Resp: 50287
Ion Ratio Lower Upper
105 100
120 0.0 20.7 31.1#
77 143.8 13.0 19.6#



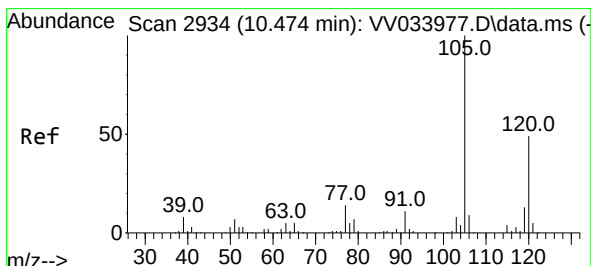
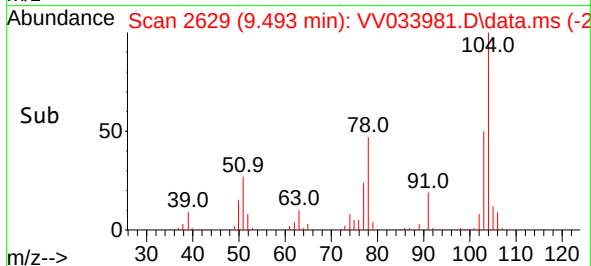
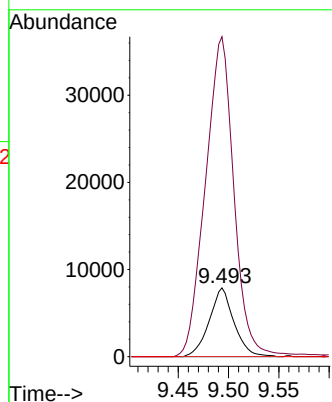


#61
1,2,3-Trichloropropane
Concen: 4.557 ug/L
RT: 9.493 min Scan# 21
Delta R.T. -0.717 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Instrument :
MSVOA_V
ClientSampleId :

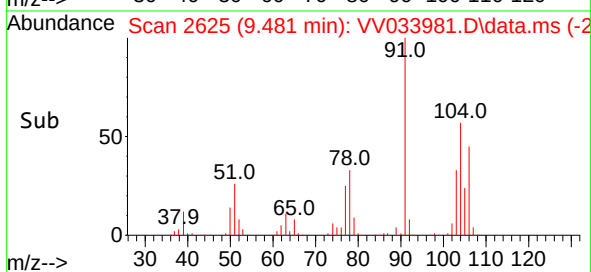
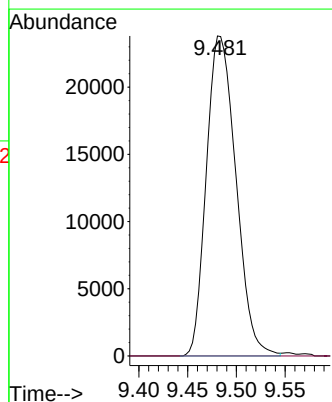
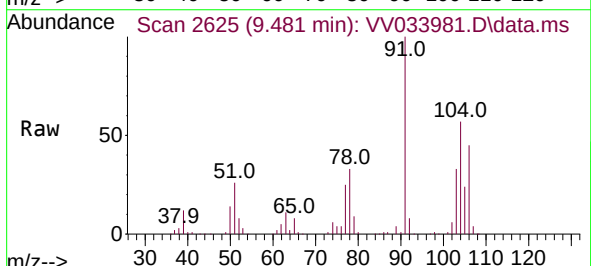


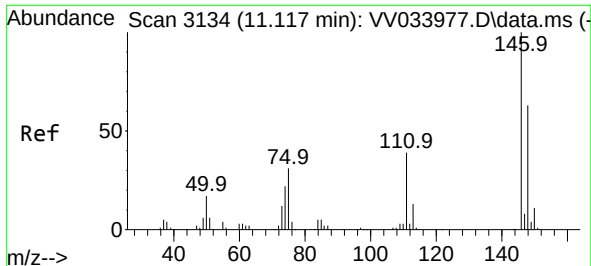
Tgt Ion: 75 Resp: 13511
Ion Ratio Lower Upper
75 100
77 535.1 26.9 40.3#
110 0.0 33.3 49.9#



#62
1,3,5-Trimethylbenzene
Concen: 1.864 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. -0.994 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Tgt Ion:105 Resp: 50287
Ion Ratio Lower Upper
105 100
120 0.0 38.2 57.4#

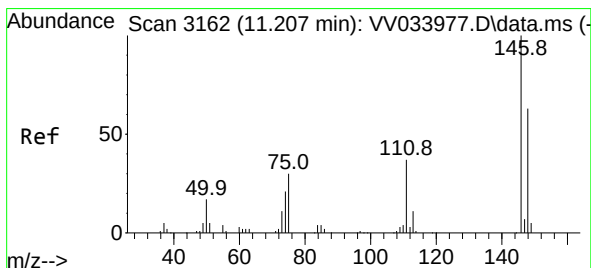
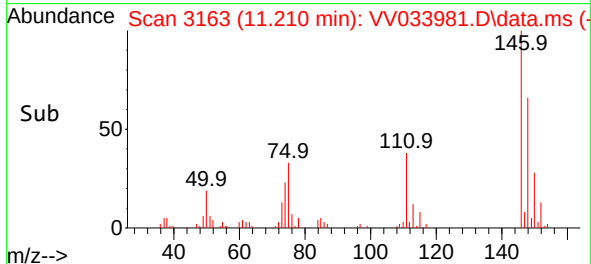
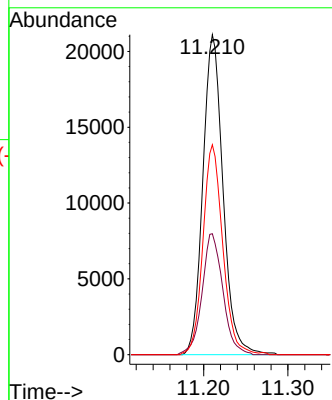
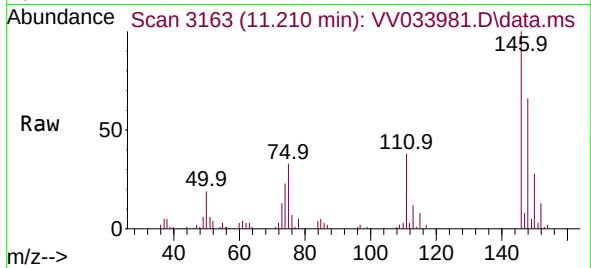




#64
1,3-Dichlorobenzene
Concen: 2.529 ug/L
RT: 11.210 min Scan# 3134
Delta R.T. 0.093 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

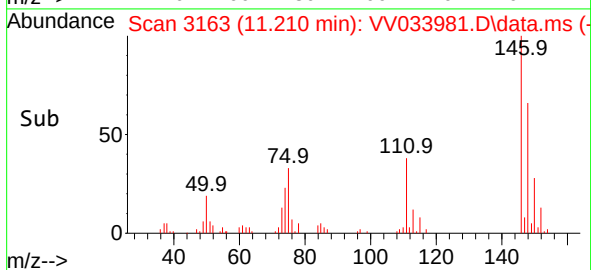
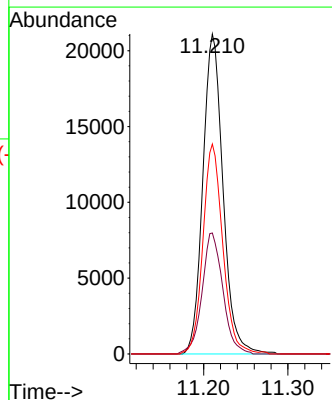
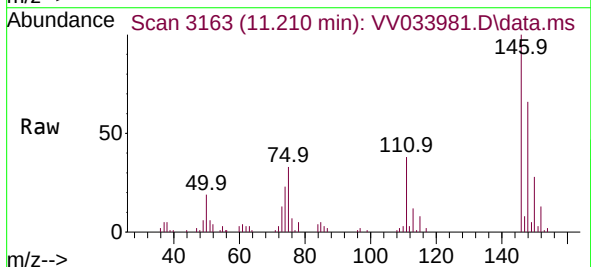
Instrument :
MSVOA_V
ClientSampleId :

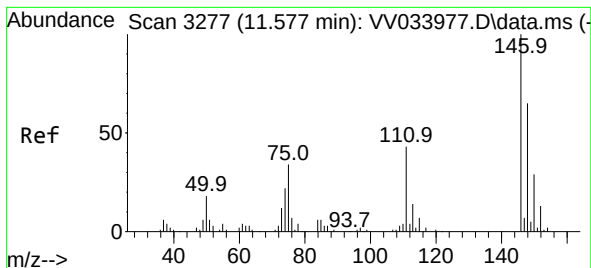
Tgt Ion:146 Resp: 35184
Ion Ratio Lower Upper
146 100
111 37.8 28.5 52.9
148 65.6 44.4 82.4



#65
1,4-Dichlorobenzene
Concen: 2.554 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Tgt Ion:146 Resp: 35184
Ion Ratio Lower Upper
146 100
111 37.8 27.6 51.4
148 65.6 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 17.241 ug/L

RT: 11.577 min Scan# 31

Delta R.T. 0.000 min

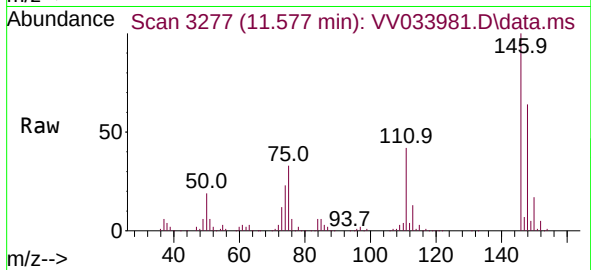
Lab File: VV033981.D

Acq: 05 Feb 2024 12:21

Instrument :

MSVOA_V

ClientSampleId :



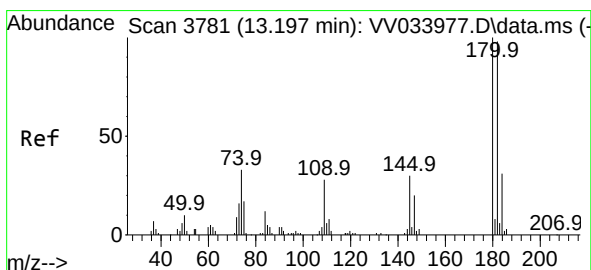
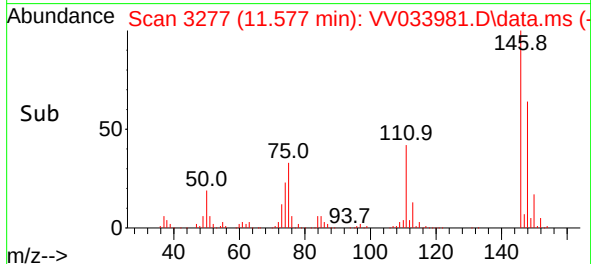
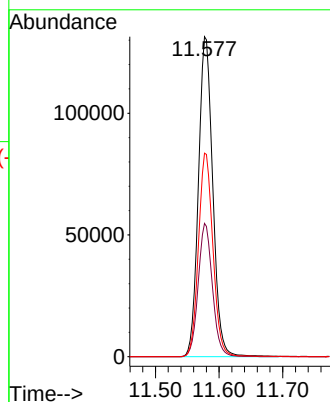
Tgt Ion:146 Resp: 206033

Ion Ratio Lower Upper

146 100

111 41.7 31.2 46.8

148 63.6 49.8 74.8



#70

1,2,4-trichlorobenzene

Concen: 5.277 ug/L

RT: 13.197 min Scan# 3781

Delta R.T. 0.000 min

Lab File: VV033981.D

Acq: 05 Feb 2024 12:21

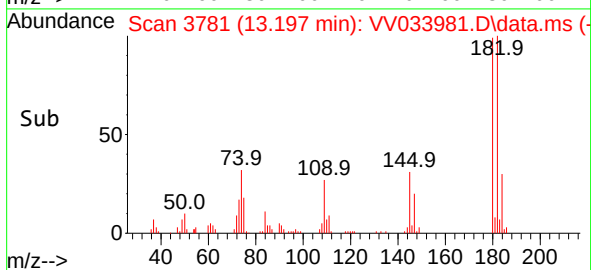
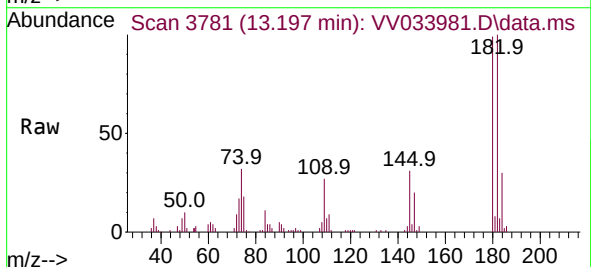
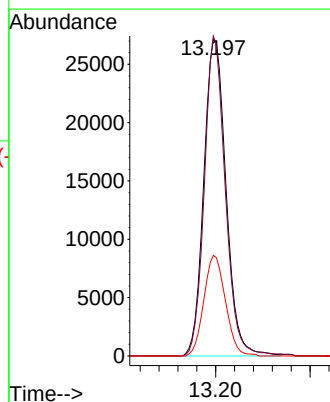
Tgt Ion:180 Resp: 44357

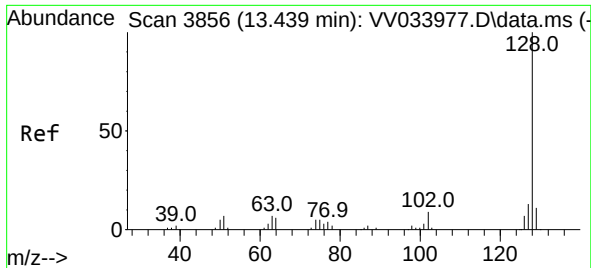
Ion Ratio Lower Upper

180 100

182 95.2 76.8 115.2

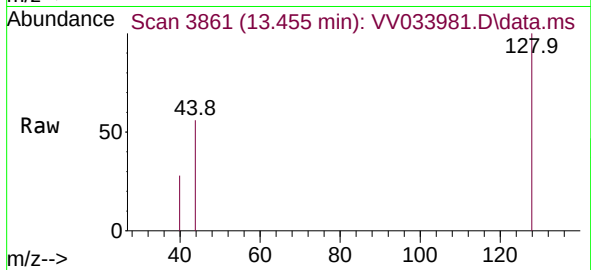
145 30.8 24.8 37.2





#71
Naphthalene
Concen: 0.074 ug/L
RT: 13.455 min Scan# 3856
Delta R.T. 0.016 min
Lab File: VV033981.D
Acq: 05 Feb 2024 12:21

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 813
Ion Ratio Lower Upper
128 100
129 0.0 8.5 12.7#
127 0.0 10.4 15.6#

