

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101123\
 Data File : VW032391.D
 Acq On : 11 Oct 2023 14:22
 Operator : SY/MD
 Sample : 04826-01DL 2.5X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DCJU4DL

Quant Time: Oct 12 03:05:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 12 02:54:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	104548	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	116459	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	57890	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	38413	4.518	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.400%
7) Chloroethane-d5	1.532	69	31523	4.567	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.400%
11) 1,1-Dichloroethene-d2	2.060	65	14311	3.991	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.800%
20) 2-Butanone-d5	3.802	46	87325	40.599	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	81.200%
24) Chloroform-d	4.252	84	64852	4.324	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.400%
26) 1,2-Dichloroethane-d4	4.950	65	31919	4.492	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.800%
32) Benzene-d6	4.963	84	124521	3.634	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.600%
36) 1,2-Dichloropropane-d6	5.992	67	45452	4.003	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.000%
41) Toluene-d8	7.249	98	116213	3.709	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.200%
43) trans-1,3-Dichloroprop...	7.561	79	15044	3.739	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.800%
46) 2-Hexanone-d5	8.030	63	78827	41.642	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.280%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	34033	4.286	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.800%
66) 1,2-Dichlorobenzene-d4	11.564	152	45918	4.274	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	83040	7.413	ug/L	98
8) Chloroethane	1.281	64	26886	3.987	ug/L #	48
12) 1,1-Dichloroethene	2.069	96	12247	1.597	ug/L #	44
16) Methylene chloride	2.449	84	16443	1.645	ug/L	99
18) trans-1,2-Dichloroethene	2.696	96	15250	1.736	ug/L	96
22) cis-1,2-Dichloroethene	3.815	96	38159	4.035	ug/L	99
27) 1,2-Dichloroethane	5.050	62	35732	3.731	ug/L	99
29) 1,1,1-Trichloroethane	4.516	97	13029	0.823	ug/L	99
31) Carbon tetrachloride	4.738	117	28850	2.153	ug/L	97
33) Benzene	5.014	78	99416	2.425	ug/L	100
34) Trichloroethene	5.834	95	56910	5.084	ug/L	95
35) Methylcyclohexane	5.992	83	10124	0.584	ug/L #	17
37) 1,2-Dichloropropane	6.098	63	55328	5.046	ug/L #	97
42) Toluene	7.320	91	81766	1.871	ug/L	99
45) 1,1,2-Trichloroethane	7.776	97	10948	1.415	ug/L	100
47) Tetrachloroethene	7.908	164	49680	5.853	ug/L	99
49) Dibromochloromethane	7.908	129	44344	5.506	ug/L #	8
51) Chlorobenzene	8.818	112	37996	1.350	ug/L	99
52) Ethylbenzene	8.950	91	296244	6.086	ug/L	100

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

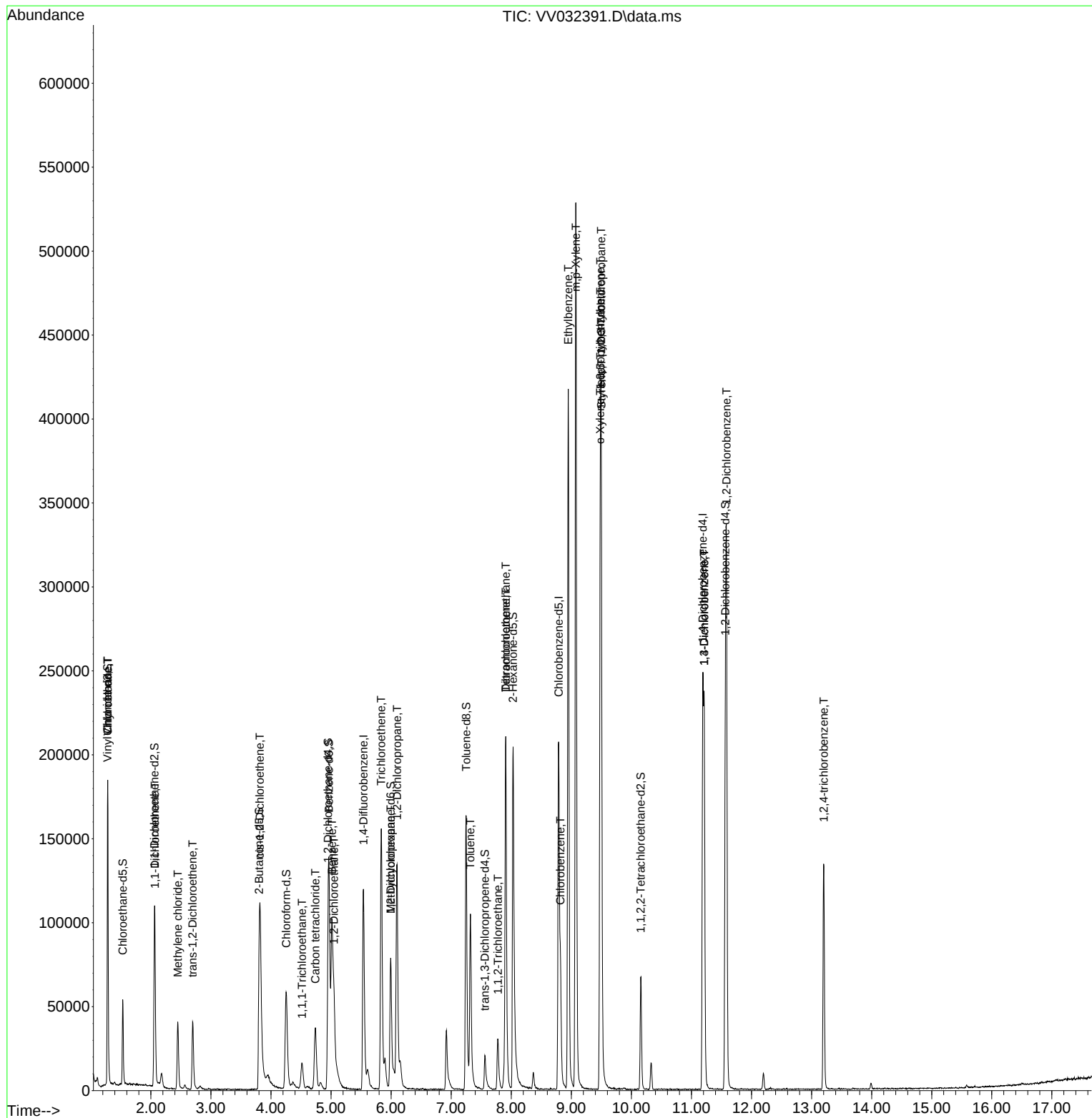
53) m,p-Xylene	9.075	106	146708	8.127	ug/L	98
54) o-Xylene	9.481	106	79602	4.576	ug/L	98
55) Styrene	9.500	104	159520	5.430	ug/L	99
60) Isopropylbenzene	9.484	105	46677	1.037	ug/L #	1
61) 1,2,3-Trichloropropane	9.497	75	8531	1.385	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.484	105	46677	1.273	ug/L #	27
64) 1,3-Dichlorobenzene	11.214	146	86439	4.022	ug/L	99
65) 1,4-Dichlorobenzene	11.214	146	86439	4.009	ug/L	99
67) 1,2-Dichlorobenzene	11.583	146	114910	5.862	ug/L	99
70) 1,2,4-trichlorobenzene	13.204	180	40118	2.874	ug/L	100

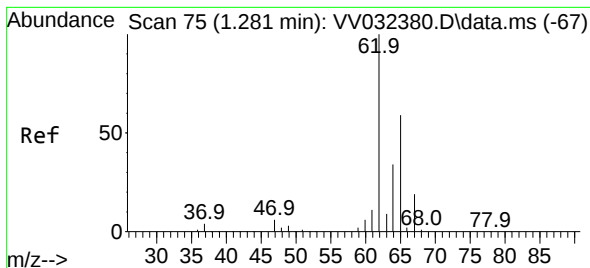
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 7.413 ug/L

RT: 1.281 min Scan# 75

Delta R.T. 0.000 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

Instrument :

MSVOA_V

ClientSampleId :

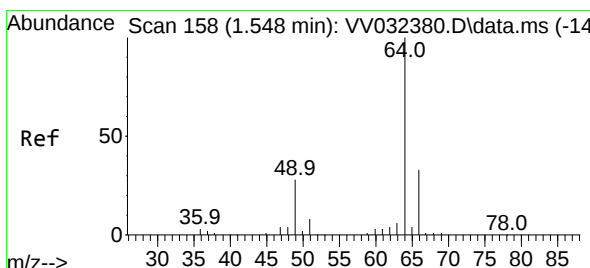
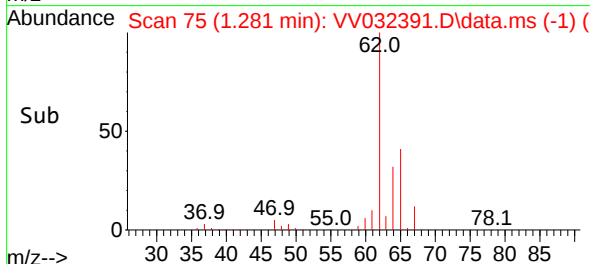
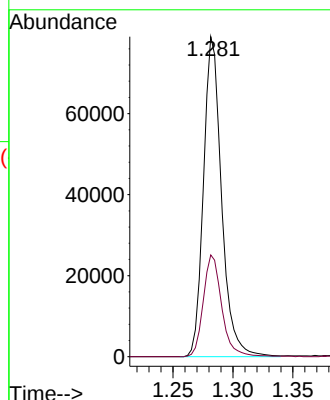
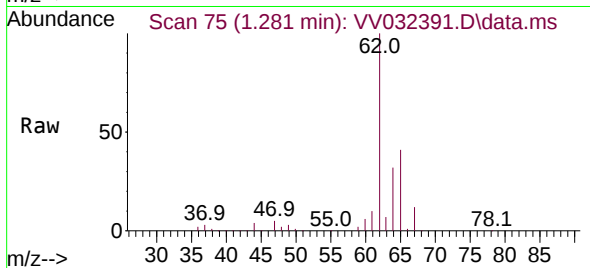
DCJU4DL

Tgt Ion: 62 Resp: 83040

Ion Ratio Lower Upper

62 100

64 31.8 23.1 42.9



#8

Chloroethane

Concen: 3.987 ug/L

RT: 1.281 min Scan# 75

Delta R.T. -0.267 min

Lab File: VV032391.D

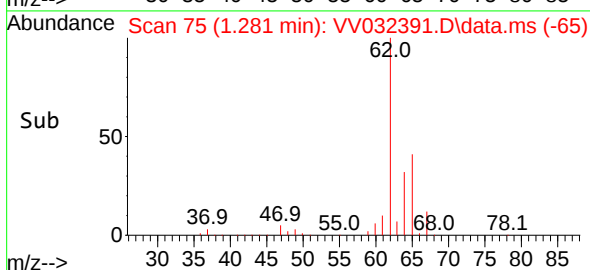
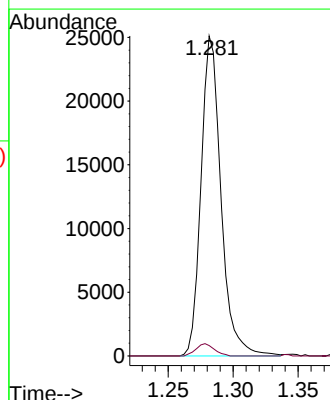
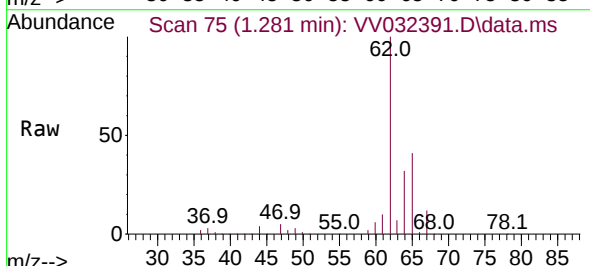
Acq: 11 Oct 2023 14:22

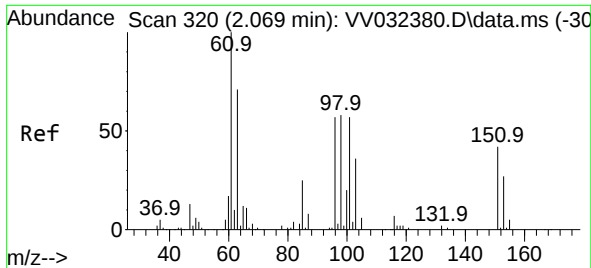
Tgt Ion: 64 Resp: 26886

Ion Ratio Lower Upper

64 100

66 3.3 22.6 42.0#

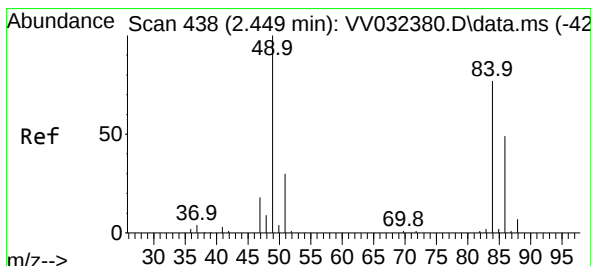
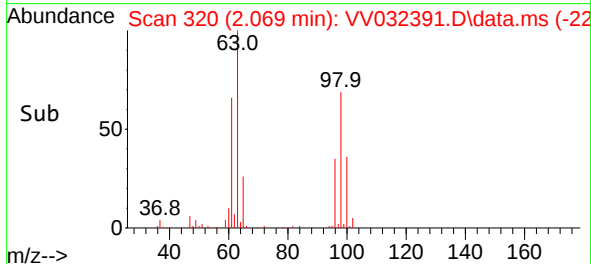
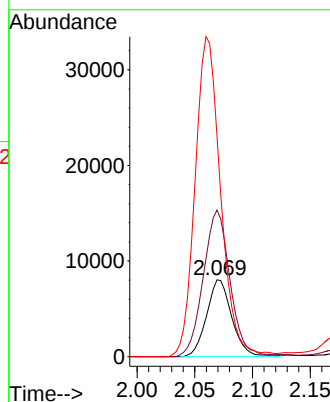
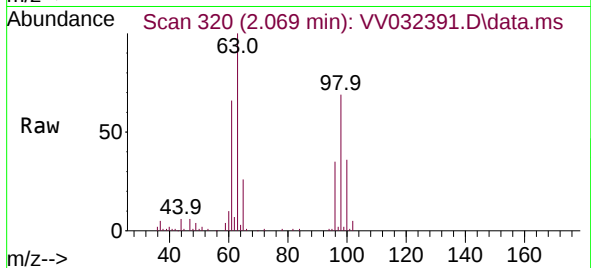




#12
1,1-Dichloroethene
Concen: 1.597 ug/L
RT: 2.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

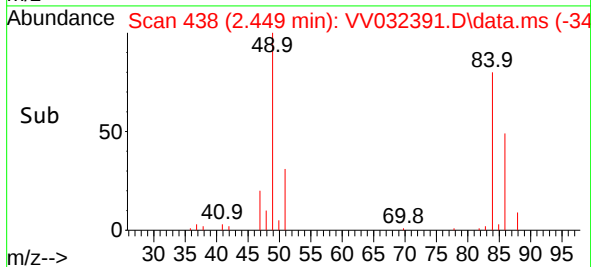
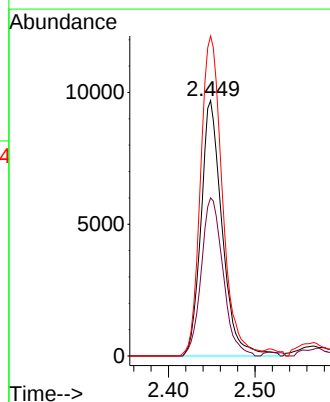
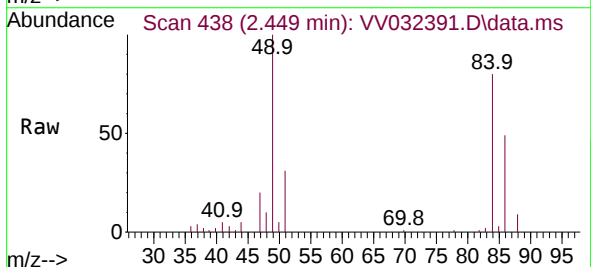
Instrument :
MSVOA_V
ClientSampleId :
DCJU4DL

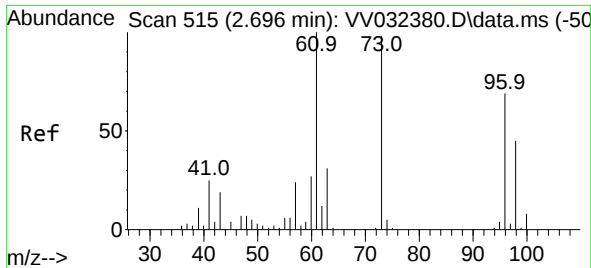
Tgt Ion: 96 Resp: 12247
Ion Ratio Lower Upper
96 100
61 190.6 127.3 236.3
63 287.0 98.3 182.7#



#16
Methylene chloride
Concen: 1.645 ug/L
RT: 2.449 min Scan# 438
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion: 84 Resp: 16443
Ion Ratio Lower Upper
84 100
86 61.9 43.2 80.2
49 125.3 86.3 160.3

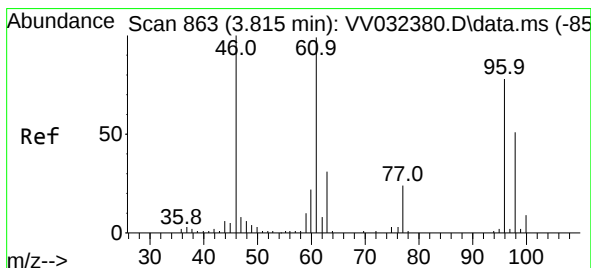
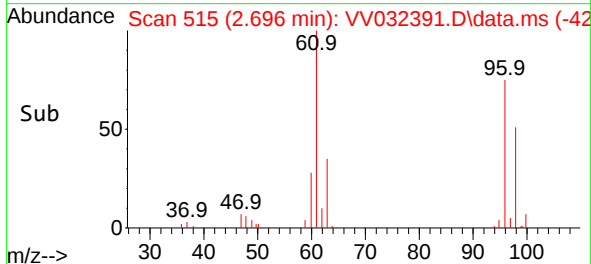
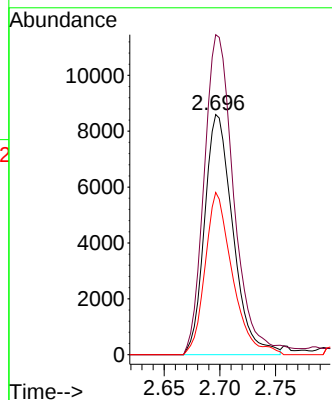
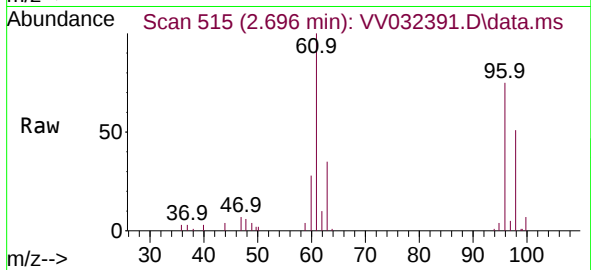




#18
trans-1,2-Dichloroethene
Concen: 1.736 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

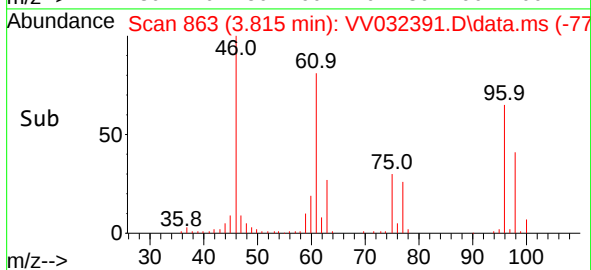
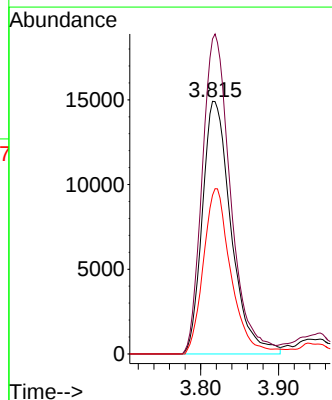
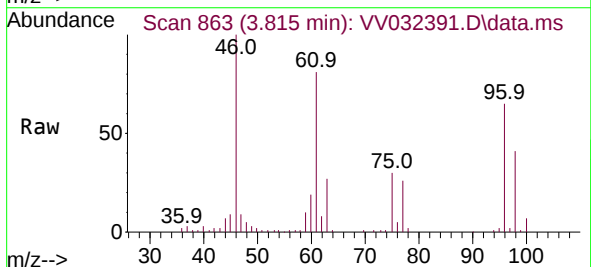
Instrument :
MSVOA_V
ClientSampleId :
DCJU4DL

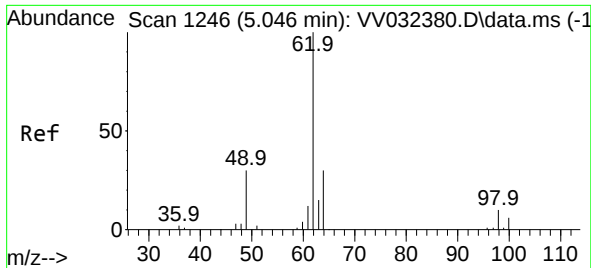
Tgt Ion: 96 Resp: 15250
Ion Ratio Lower Upper
96 100
61 133.3 96.9 180.1
98 67.6 45.3 84.1



#22
cis-1,2-Dichloroethene
Concen: 4.035 ug/L
RT: 3.815 min Scan# 863
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion: 96 Resp: 38159
Ion Ratio Lower Upper
96 100
61 124.7 85.8 159.4
98 62.8 44.0 81.6





#27

1,2-Dichloroethane

Concen: 3.731 ug/L

RT: 5.050 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

Instrument :

MSVOA_V

ClientSampleId :

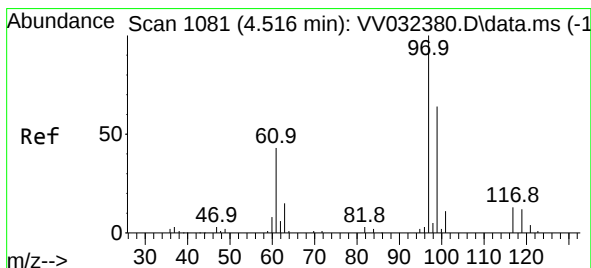
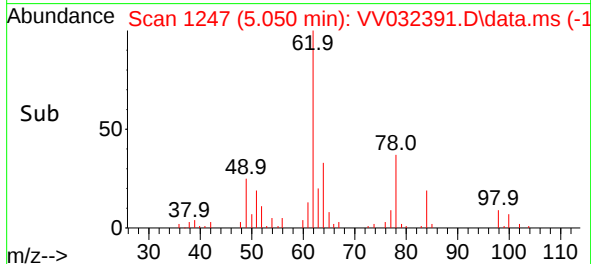
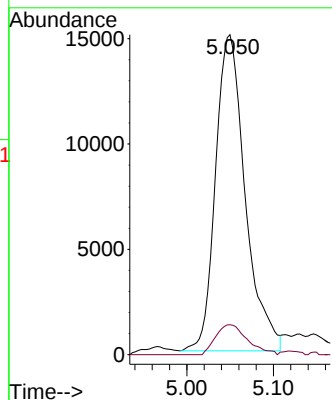
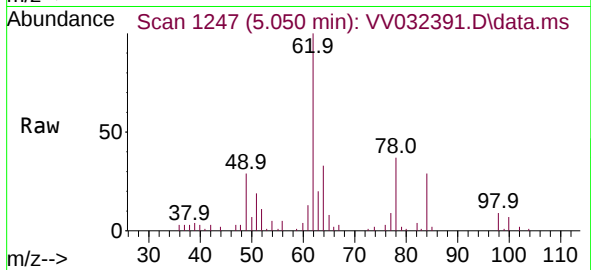
DCJU4DL

Tgt Ion: 62 Resp: 35732

Ion Ratio Lower Upper

62 100

98 9.3 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 0.823 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

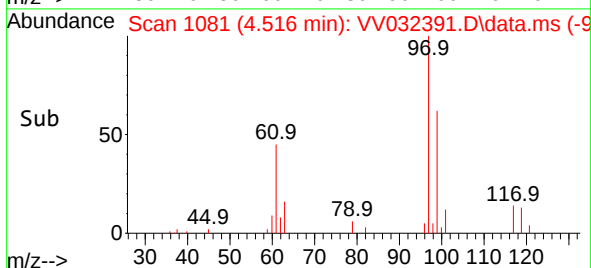
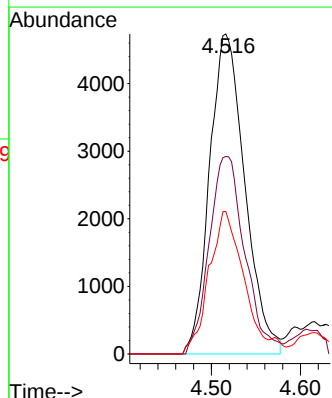
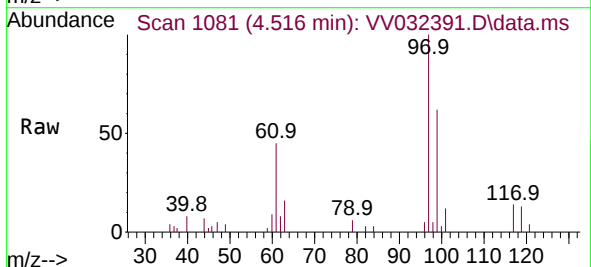
Tgt Ion: 97 Resp: 13029

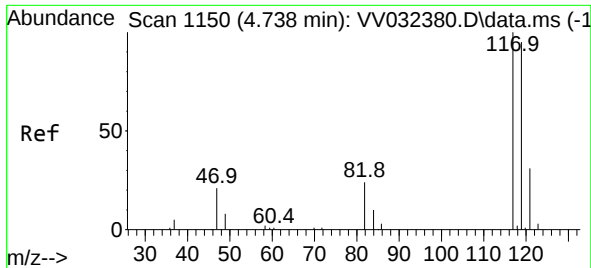
Ion Ratio Lower Upper

97 100

99 62.5 50.1 75.1

61 42.9 35.1 52.7

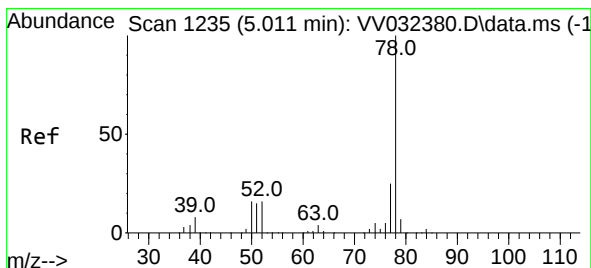
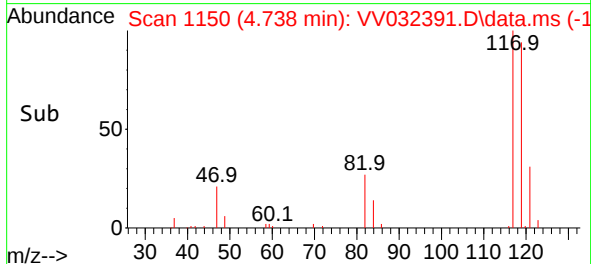
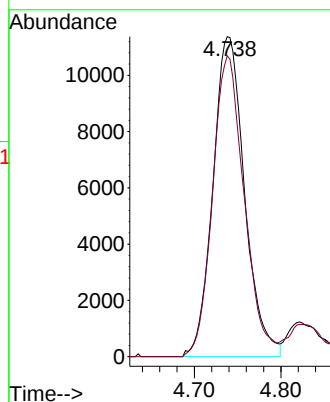
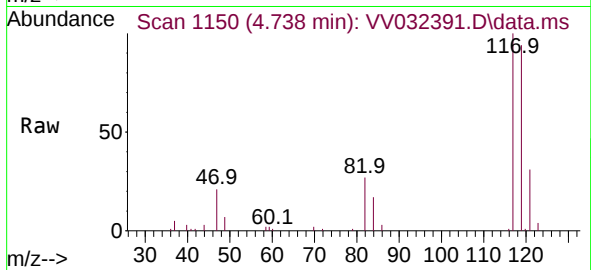




#31
Carbon tetrachloride
Concen: 2.153 ug/L
RT: 4.738 min Scan# 1150
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

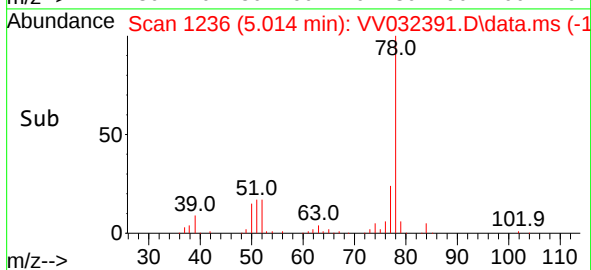
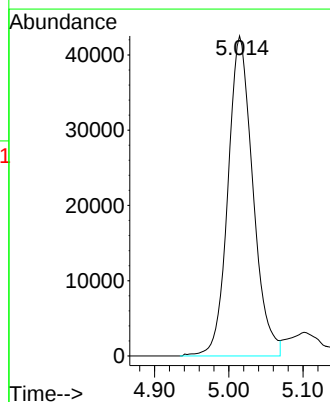
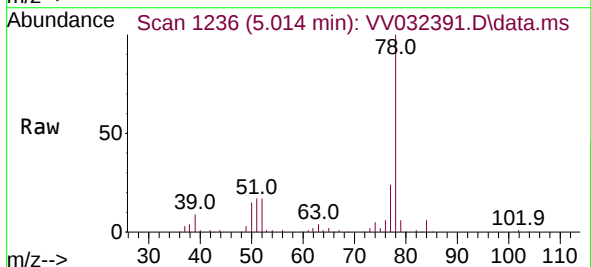
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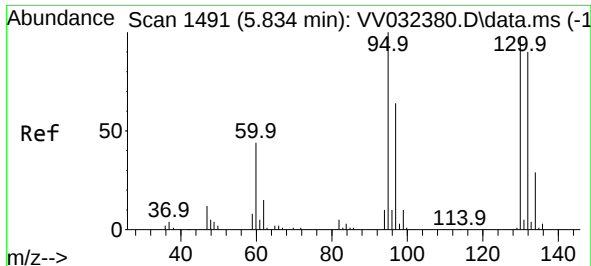
Tgt Ion:117 Resp: 28850
Ion Ratio Lower Upper
117 100
119 93.9 77.6 116.4



#33
Benzene
Concen: 2.425 ug/L
RT: 5.014 min Scan# 1236
Delta R.T. 0.003 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion: 78 Resp: 99416



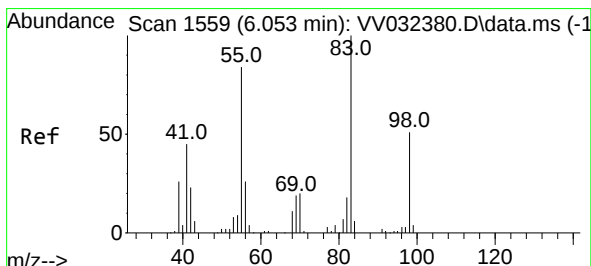
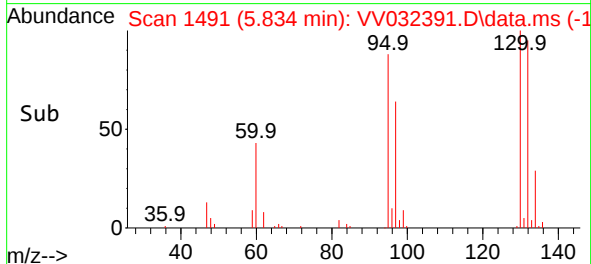
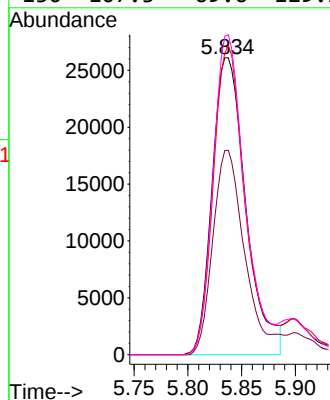
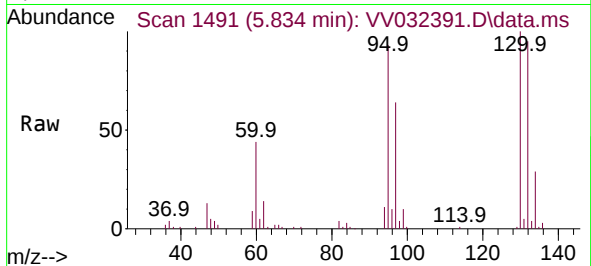


#34
Trichloroethene
Concen: 5.084 ug/L
RT: 5.834 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Instrument :
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Tgt Ion: 95 Resp: 56910

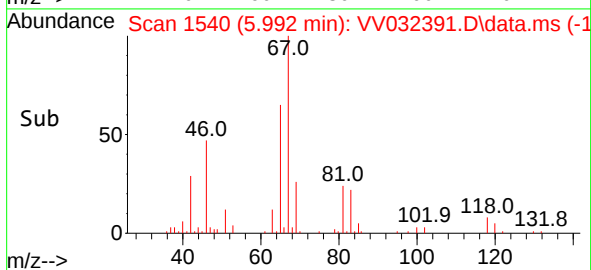
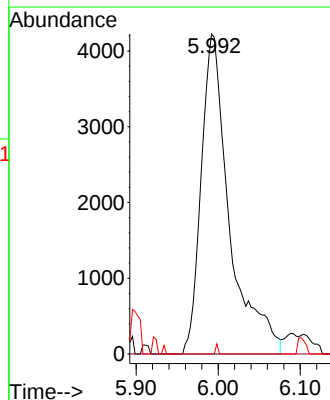
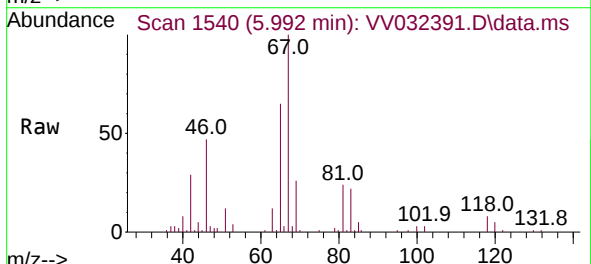
Ion	Ratio	Lower	Upper
95	100		
97	68.8	45.7	84.9
132	101.7	70.3	130.5
130	107.3	69.6	129.2

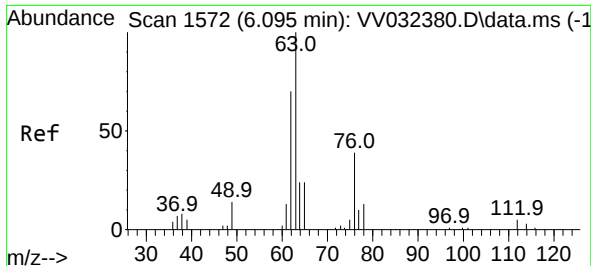


#35
Methylcyclohexane
Concen: 0.584 ug/L
RT: 5.992 min Scan# 1540
Delta R.T. -0.061 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion: 83 Resp: 10124

Ion	Ratio	Lower	Upper
83	100		
55	0.0	64.2	96.2#
98	0.8	39.6	59.4#





#37

1,2-Dichloropropane

Concen: 5.046 ug/L

RT: 6.098 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

Instrument :

MSVOA_V

ClientSampleId :

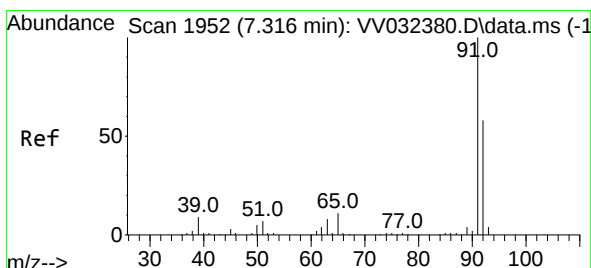
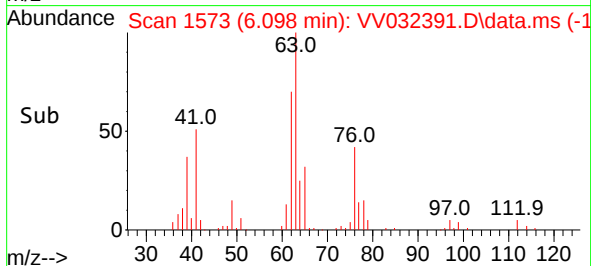
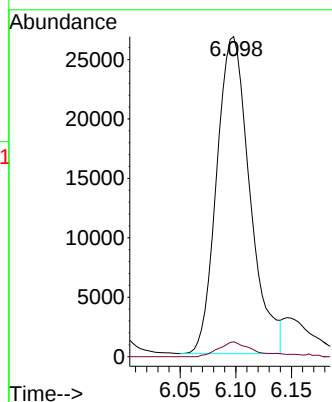
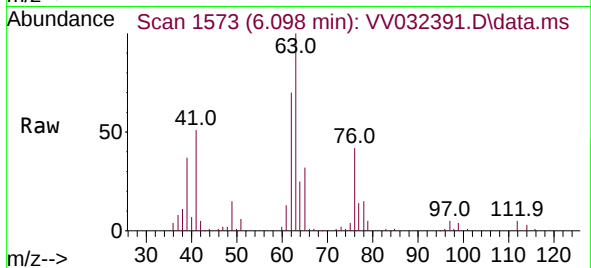
DCJU4DL

Tgt Ion: 63 Resp: 55328

Ion Ratio Lower Upper

63 100

112 5.2 3.4 5.2#



#42

Toluene

Concen: 1.871 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.003 min

Lab File: VV032391.D

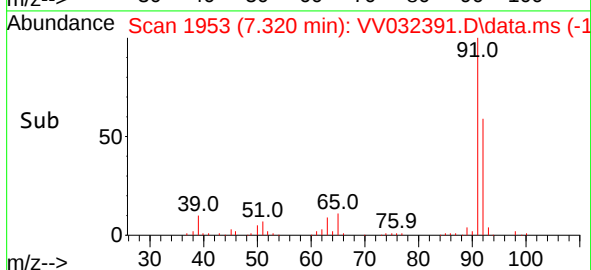
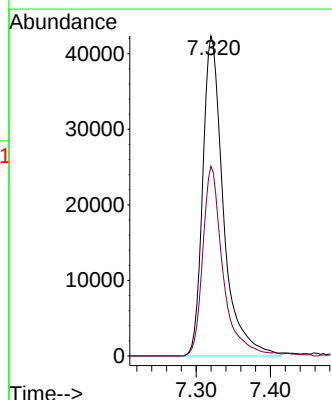
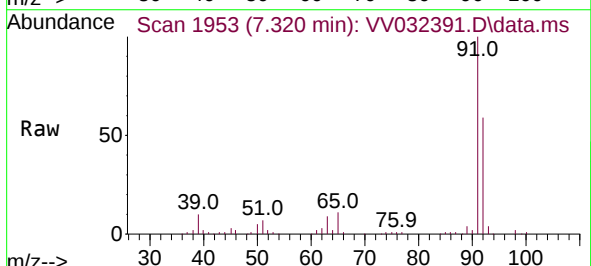
Acq: 11 Oct 2023 14:22

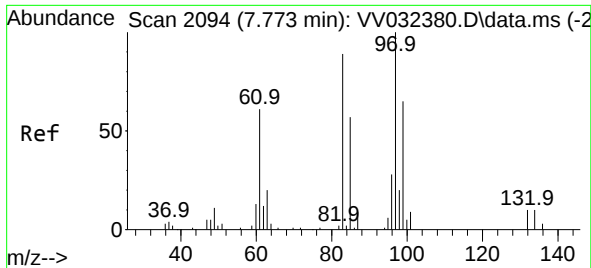
Tgt Ion: 91 Resp: 81766

Ion Ratio Lower Upper

91 100

92 59.3 40.8 75.8

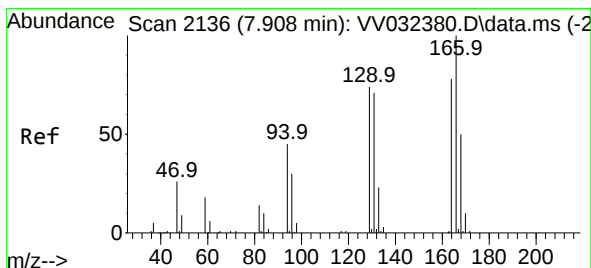
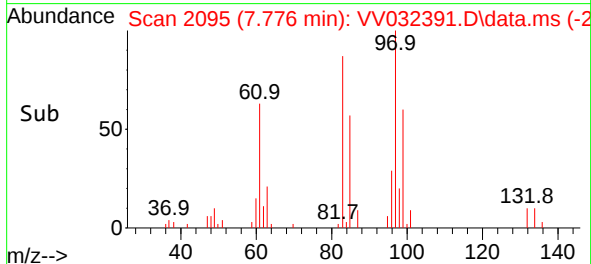
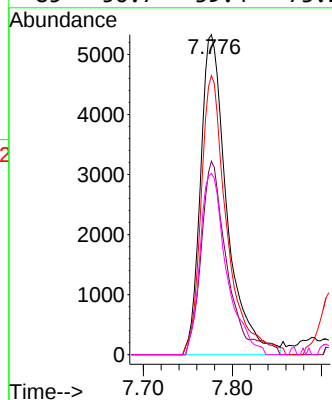
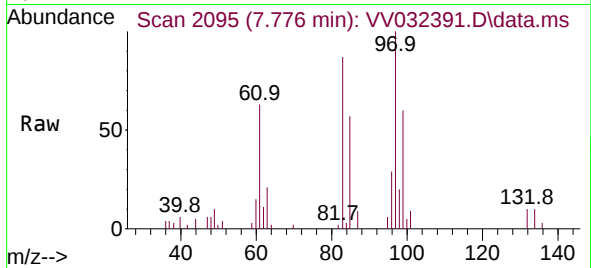




#45
1,1,2-Trichloroethane
Concen: 1.415 ug/L
RT: 7.776 min Scan# 2094
Delta R.T. 0.003 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

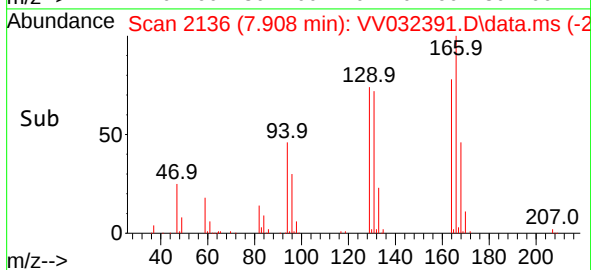
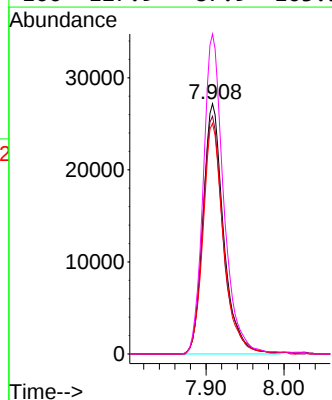
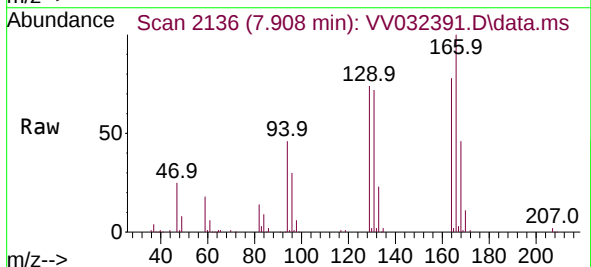
Instrument :
MSVOA_V
ClientSampleId :
DCJU4DL

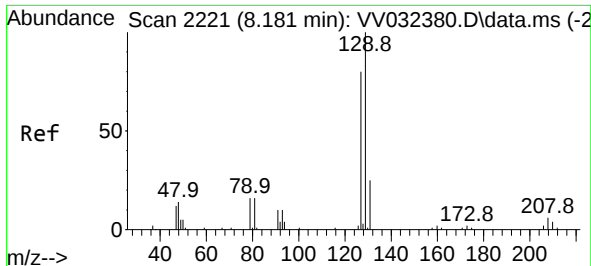
Tgt Ion:	97	Resp:	10948
Ion	Ratio	Lower	Upper
97	100		
99	60.5	42.8	79.4
83	87.2	60.9	113.1
85	56.7	39.4	73.2



#47
Tetrachloroethene
Concen: 5.853 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion:	164	Resp:	49680
Ion	Ratio	Lower	Upper
164	100		
129	95.1	66.4	123.4
131	92.1	63.7	118.3
166	127.9	87.9	163.3





#49

Dibromochloromethane

Concen: 5.506 ug/L

RT: 7.908 min Scan# 2136

Delta R.T. -0.273 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

Instrument :

MSVOA_V

ClientSampleId :

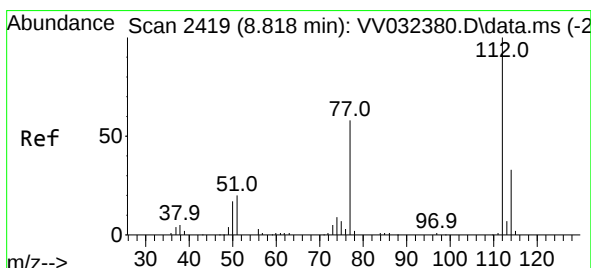
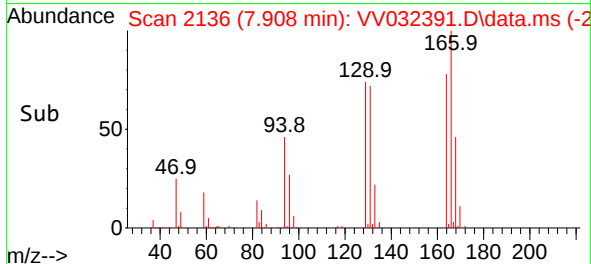
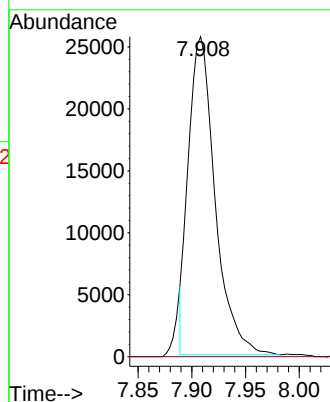
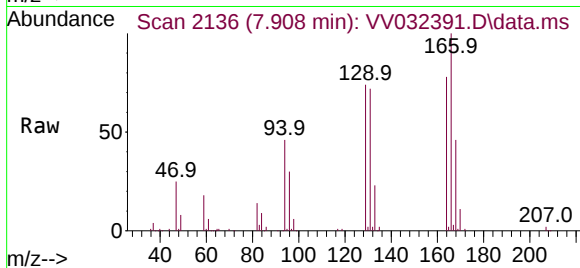
DCJU4DL

Tgt Ion:129 Resp: 44344

Ion Ratio Lower Upper

129 100

127 0.0 57.2 106.2#



#51

Chlorobenzene

Concen: 1.350 ug/L

RT: 8.818 min Scan# 2419

Delta R.T. 0.000 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

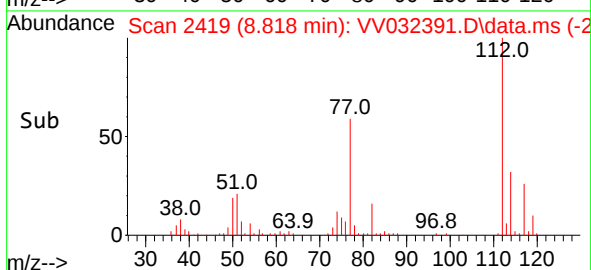
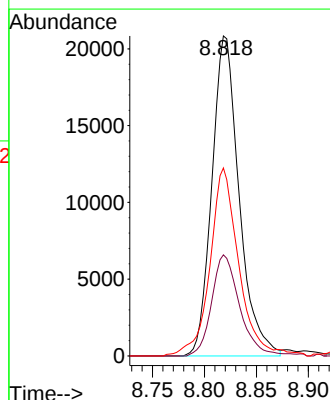
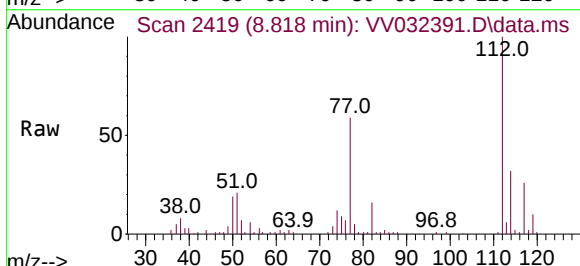
Tgt Ion:112 Resp: 37996

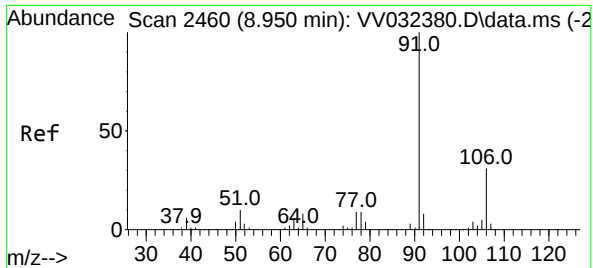
Ion Ratio Lower Upper

112 100

114 31.6 22.1 41.1

77 58.7 46.1 69.1

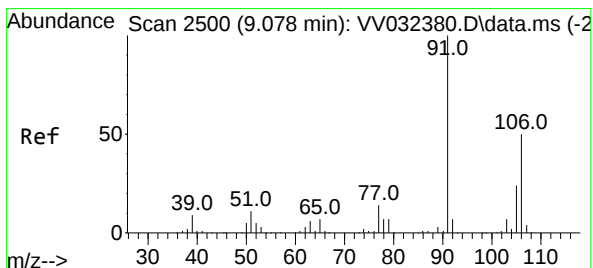
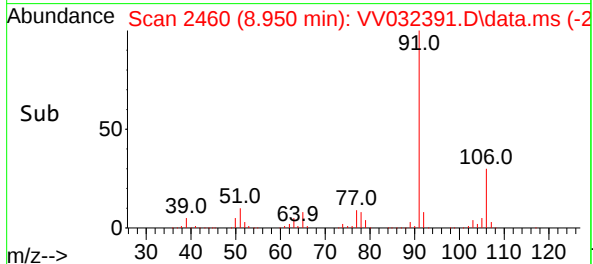
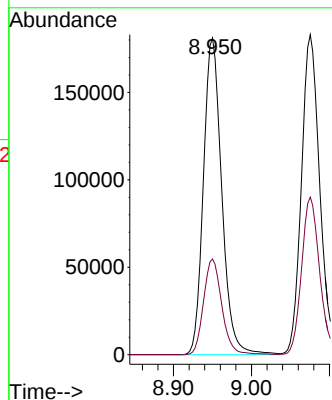
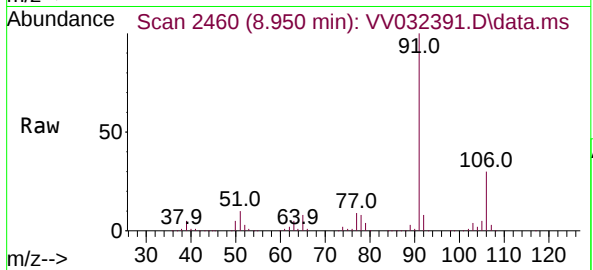




#52
Ethylbenzene
Concen: 6.086 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

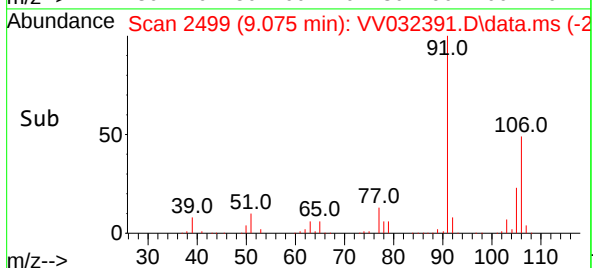
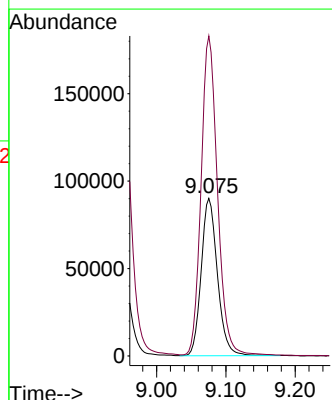
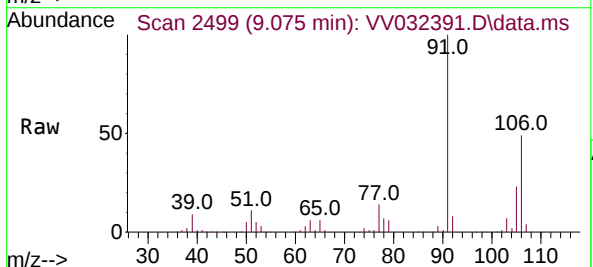
Instrument :
MSVOA_V
ClientSampleId :
DCJU4DL

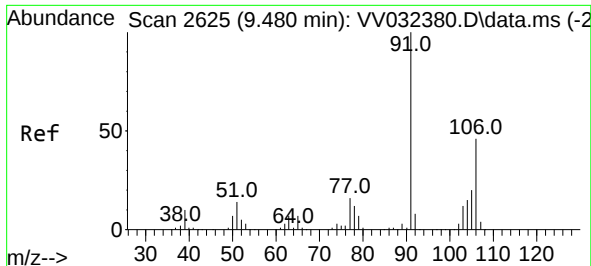
Tgt Ion: 91 Resp: 296244
Ion Ratio Lower Upper
91 100
106 30.2 21.3 39.5



#53
m,p-Xylene
Concen: 8.127 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. -0.003 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion: 106 Resp: 146708
Ion Ratio Lower Upper
106 100
91 203.0 144.5 268.3

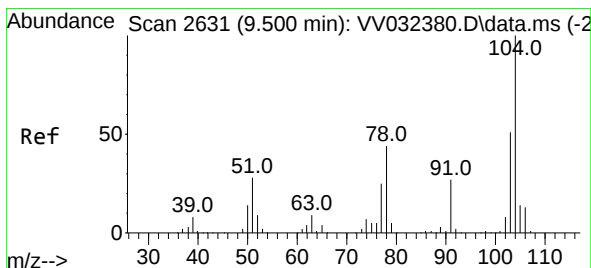
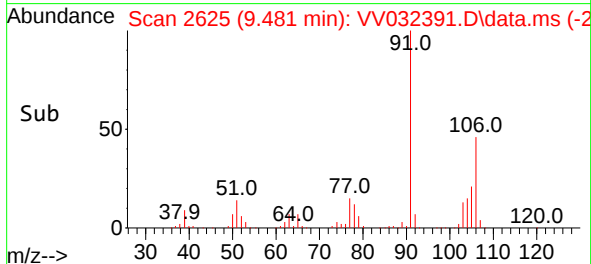
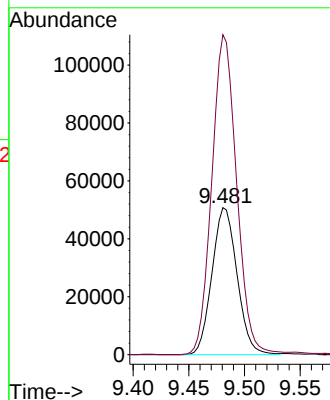
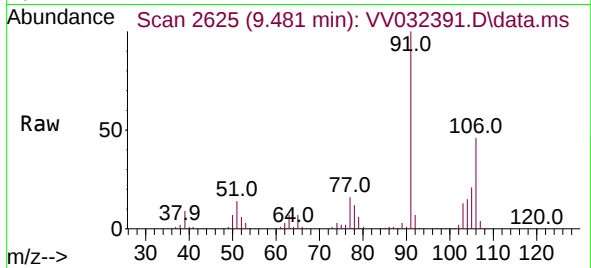




#54
o-Xylene
Concen: 4.576 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

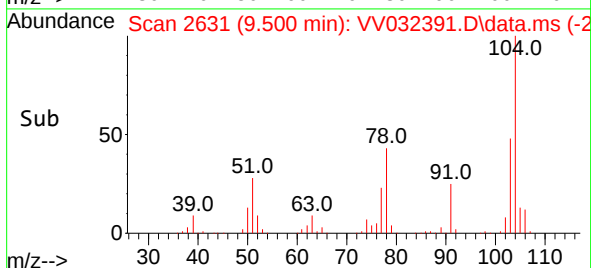
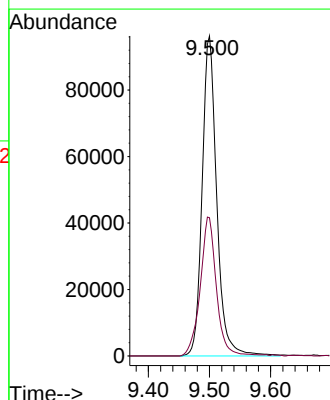
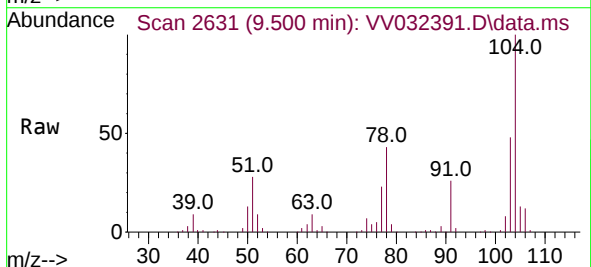
Instrument :
MSVOA_V
ClientSampleId :
DCJU4DL

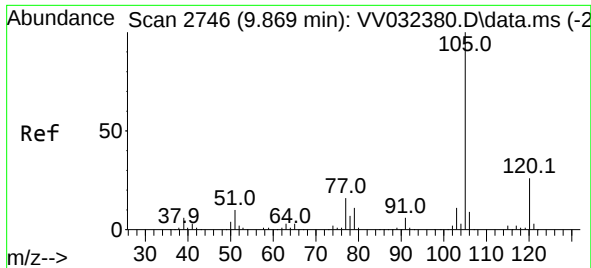
Tgt Ion:106 Resp: 79602
Ion Ratio Lower Upper
106 100
91 217.6 154.8 287.4



#55
Styrene
Concen: 5.430 ug/L
RT: 9.500 min Scan# 2631
Delta R.T. 0.000 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion:104 Resp: 159520
Ion Ratio Lower Upper
104 100
78 43.2 29.9 55.5

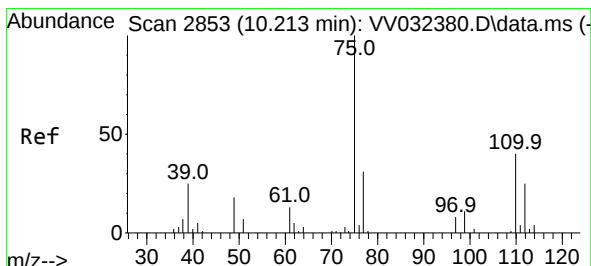
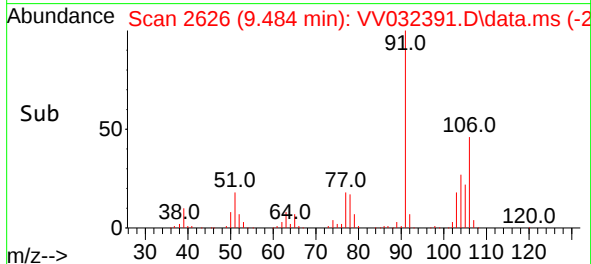
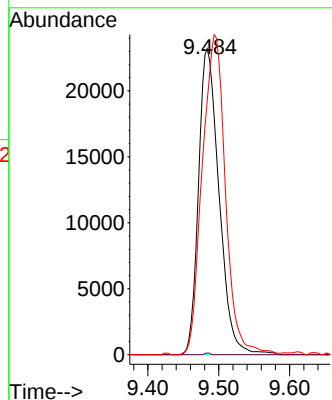
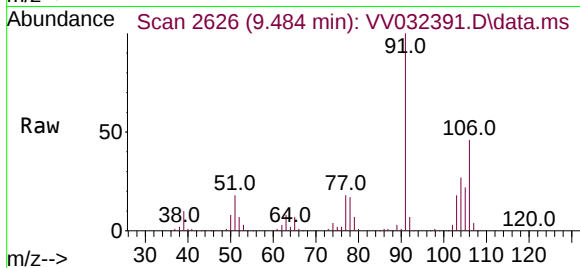




#60
Isopropylbenzene
Concen: 1.037 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. -0.386 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

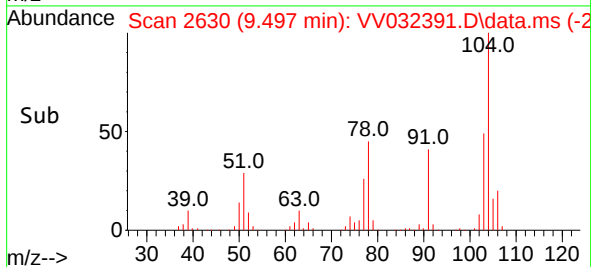
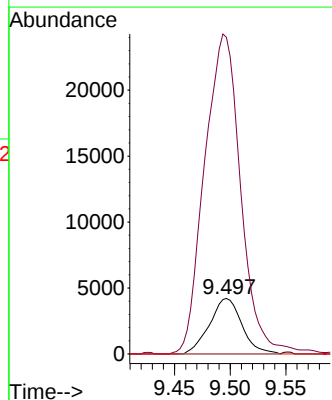
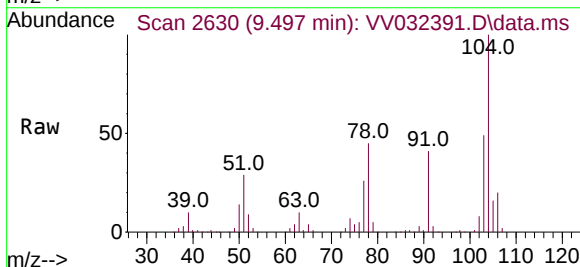
Instrument :
MSVOA_V
ClientSampleId :
DCJU4DL

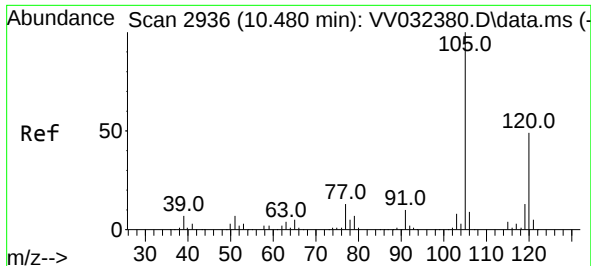
Tgt Ion:105 Resp: 46677
Ion Ratio Lower Upper
105 100
120 0.0 21.0 31.6#
77 117.8 12.6 19.0#



#61
1,2,3-Trichloropropane
Concen: 1.385 ug/L
RT: 9.497 min Scan# 2630
Delta R.T. -0.717 min
Lab File: VV032391.D
Acq: 11 Oct 2023 14:22

Tgt Ion: 75 Resp: 8531
Ion Ratio Lower Upper
75 100
77 644.8 26.2 39.2#
110 0.0 30.6 46.0#

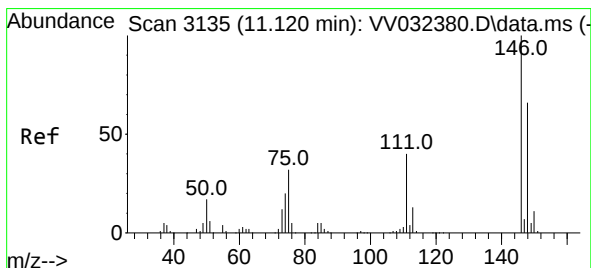
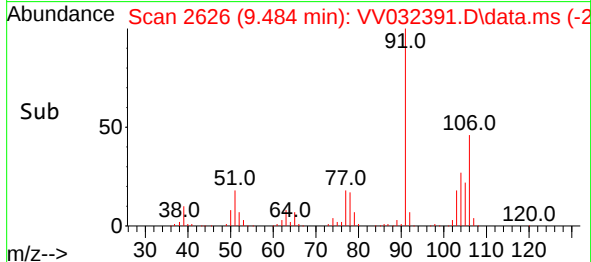
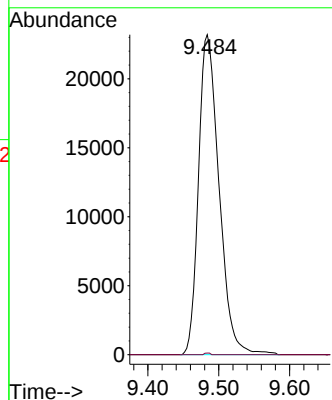
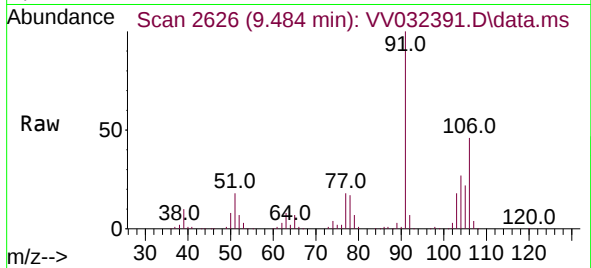




#62
 1,3,5-Trimethylbenzene
 Concen: 1.273 ug/L
 RT: 9.484 min Scan# 21
 Delta R.T. -0.997 min
 Lab File: VV032391.D
 Acq: 11 Oct 2023 14:22

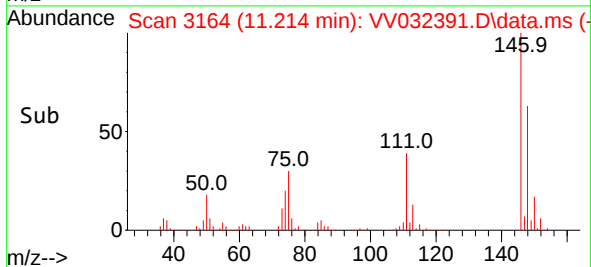
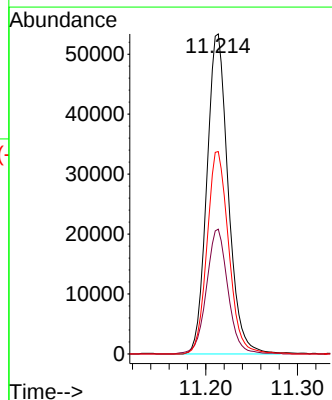
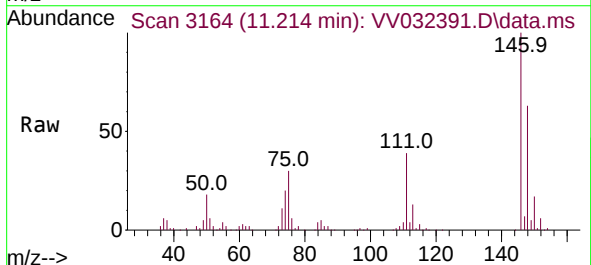
Instrument :
 MSVOA_V
 ClientSampleId :
 DCJU4DL

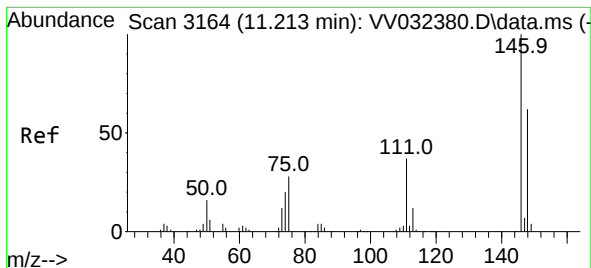
Tgt Ion:105 Resp: 46677
 Ion Ratio Lower Upper
 105 100
 120 0.0 39.9 59.9#



#64
 1,3-Dichlorobenzene
 Concen: 4.022 ug/L
 RT: 11.214 min Scan# 3164
 Delta R.T. 0.093 min
 Lab File: VV032391.D
 Acq: 11 Oct 2023 14:22

Tgt Ion:146 Resp: 86439
 Ion Ratio Lower Upper
 146 100
 111 39.0 27.8 51.6
 148 63.2 43.7 81.1





#65

1,4-Dichlorobenzene

Concen: 4.009 ug/L

RT: 11.214 min Scan# 3164

Delta R.T. 0.000 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

Instrument :

MSVOA_V

ClientSampleId :

DCJU4DL

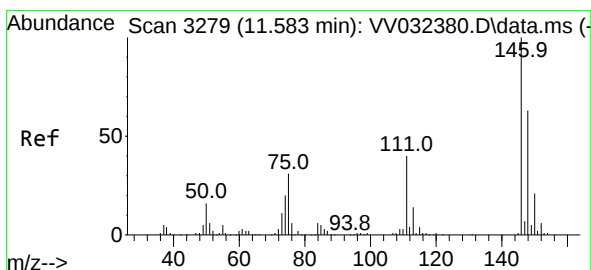
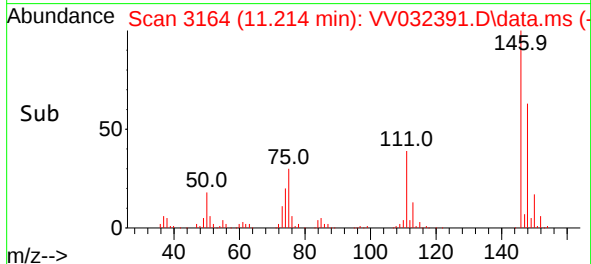
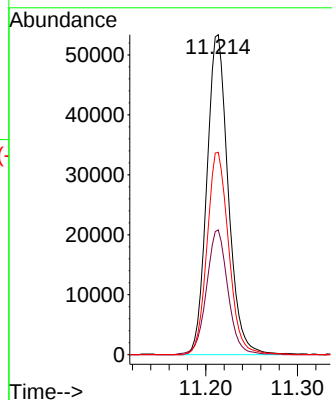
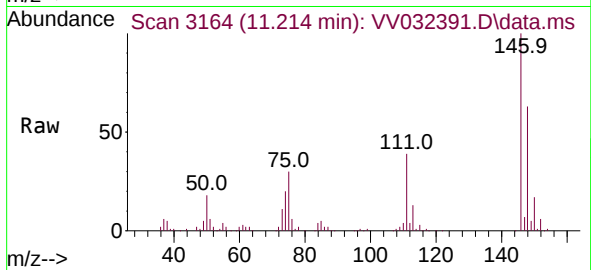
Tgt Ion:146 Resp: 86439

Ion Ratio Lower Upper

146 100

111 39.0 26.9 49.9

148 63.2 44.8 83.2



#67

1,2-Dichlorobenzene

Concen: 5.862 ug/L

RT: 11.583 min Scan# 3279

Delta R.T. 0.000 min

Lab File: VV032391.D

Acq: 11 Oct 2023 14:22

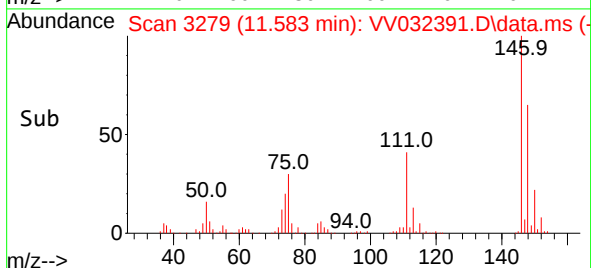
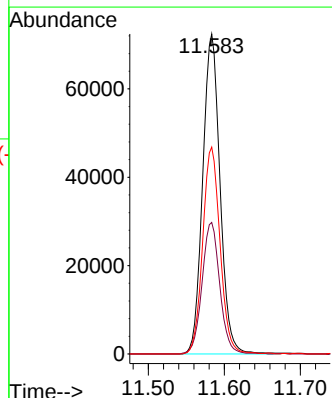
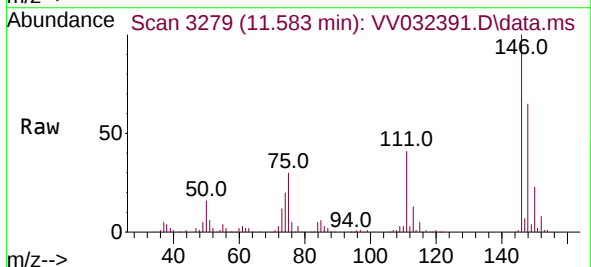
Tgt Ion:146 Resp: 114910

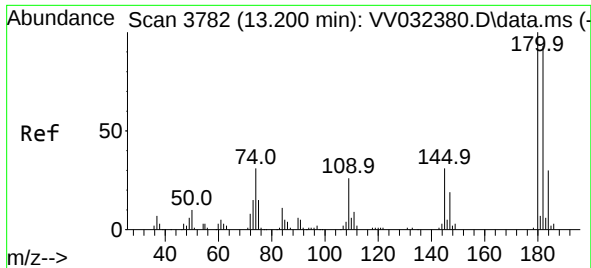
Ion Ratio Lower Upper

146 100

111 41.1 32.8 49.2

148 64.6 51.0 76.4





#70

1,2,4-trichlorobenzene

Concen: 2.874 ug/L

RT: 13.204 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV032391.D

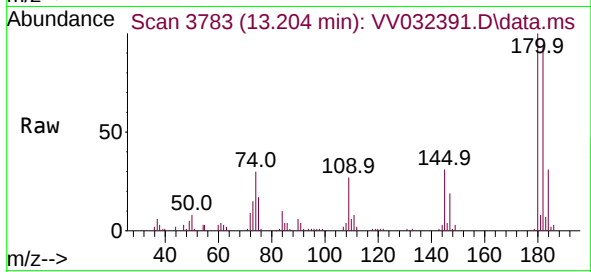
Acq: 11 Oct 2023 14:22

Instrument :

MSVOA_V

ClientSampleId :

DCJU4DL



Tgt Ion:180 Resp: 40118

Ion Ratio Lower Upper

180 100

182 95.1 76.5 114.7

145 30.5 24.3 36.5

