

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111824\
 Data File : VU061805.D
 Acq On : 18 Nov 2024 11:55
 Operator : MD/SY
 Sample : P4847-02
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 00:17:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 19 00:15:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	183581	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	170740	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	82828	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	61249	5.164	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.200%
7) Chloroethane-d5	1.907	69	51361	5.072	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.400%
11) 1,1-Dichloroethene-d2	2.560	65	26462	4.972	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.400%
20) 2-Butanone-d5	4.618	46	124275	49.362	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.720%
24) Chloroform-d	5.052	84	120562	5.114	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.200%
26) 1,2-Dichloroethane-d4	5.692	65	58954	5.211	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.200%
32) Benzene-d6	5.718	84	247406	5.238	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.800%
36) 1,2-Dichloropropane-d6	6.682	67	75752	5.437	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.800%
41) Toluene-d8	7.891	98	223427	5.075	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.400%
43) trans-1,3-Dichloroprop...	8.174	79	25514	4.972	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.400%
46) 2-Hexanone-d5	8.627	63	93955	46.334	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.660%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	57953	5.277	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.600%
66) 1,2-Dichlorobenzene-d4	12.184	152	79706	5.403	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	123421	9.035	ug/L	98
12) 1,1-Dichloroethene	2.573	96	143003	12.904	ug/L #	81
15) Methyl Acetate	3.030	43	793	0.200	ug/L #	47
16) Methylene chloride	3.036	84	267310	20.930	ug/L	96
18) trans-1,2-Dichloroethene	3.345	96	178425	14.678	ug/L	98
22) cis-1,2-Dichloroethene	4.656	96	77860	5.680	ug/L	98
27) 1,2-Dichloroethane	5.785	62	41190	2.810	ug/L	99
29) 1,1,1-Trichloroethane	5.306	97	246026	12.663	ug/L	100
31) Carbon tetrachloride	5.515	117	178421	10.782	ug/L	99
33) Benzene	5.763	78	926912	17.937	ug/L	100
34) Trichloroethene	6.534	95	66696	4.780	ug/L	99
37) 1,2-Dichloropropane	6.782	63	185594	14.157	ug/L	99
42) Toluene	7.962	91	1084974	19.501	ug/L	99
45) 1,1,2-Trichloroethane	8.393	97	37957	3.972	ug/L	96
47) Tetrachloroethene	8.544	164	144281	13.761	ug/L	99
49) Dibromochloromethane	8.544	129	142845	14.255	ug/L #	10
51) Chlorobenzene	9.438	112	428488	11.965	ug/L	99
52) Ethylbenzene	9.563	91	1043061	17.599	ug/L	100
53) m,p-Xylene	9.682	106	356142	15.705	ug/L	99

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QLast Update : Tue Nov 19 00:15:47 2024
Response via : Initial Calibration

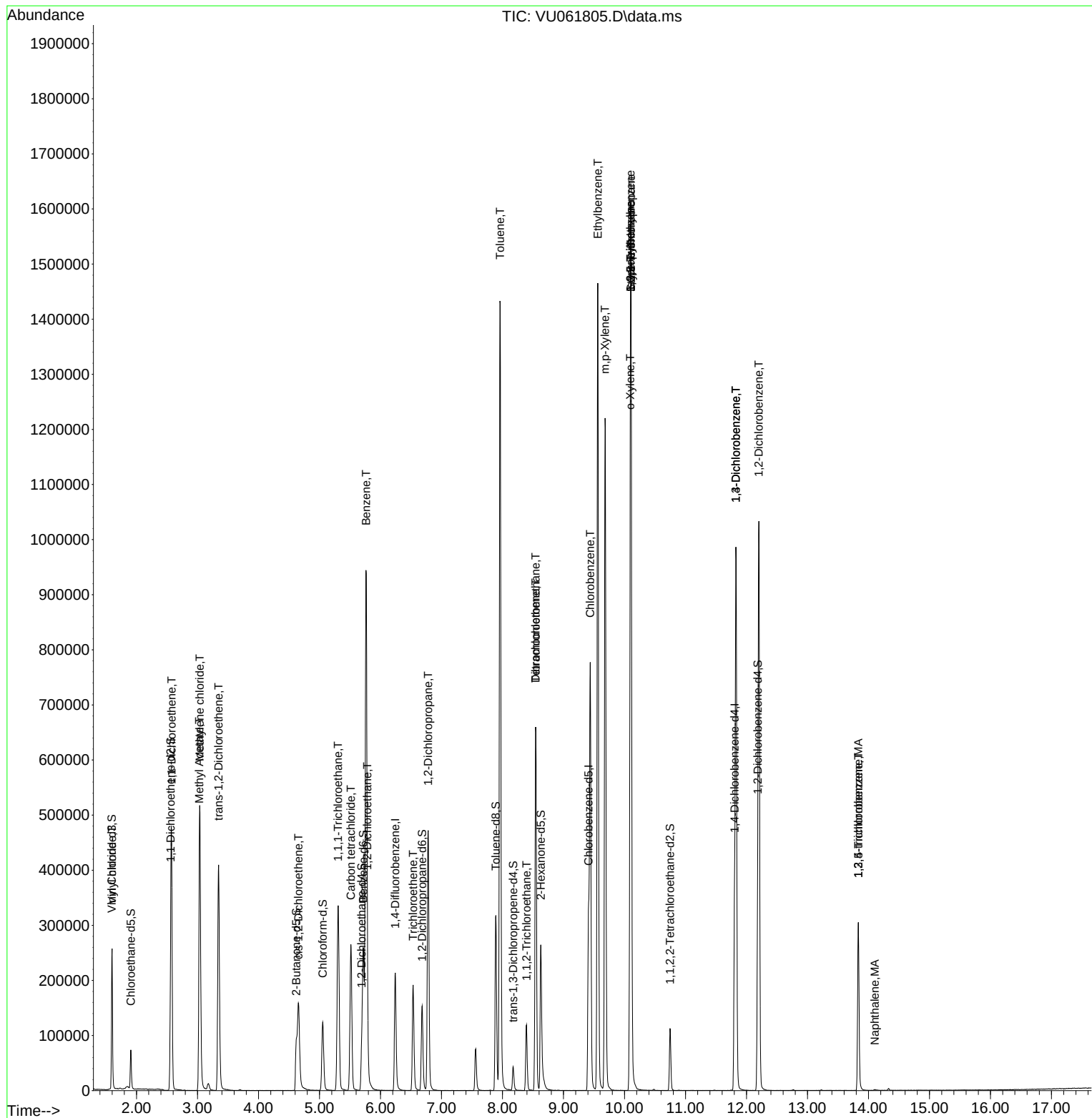
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.094	106	138760	6.295	ug/L	97
55) Styrene	10.106	104	702706	20.024	ug/L	96
60) Isopropylbenzene	10.100	105	115650	2.013	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	31988	4.100	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.100	105	115650	2.515	ug/L #	29
64) 1,3-Dichlorobenzene	11.827	146	403024	15.299	ug/L	99
65) 1,4-Dichlorobenzene	11.827	146	403024	15.067	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	396060	16.166	ug/L	99
69) 1,3,5-Trichlorobenzene	13.833	180	100005	5.437	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	100005	7.016	ug/L	99
71) Naphthalene	14.103	128	2657	0.130	ug/L #	82

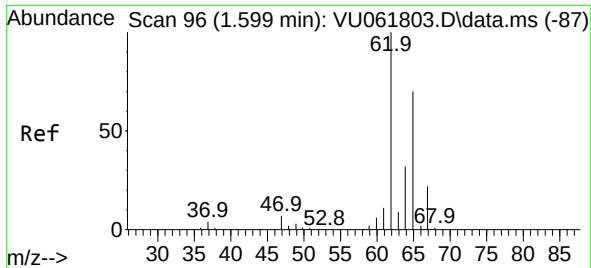
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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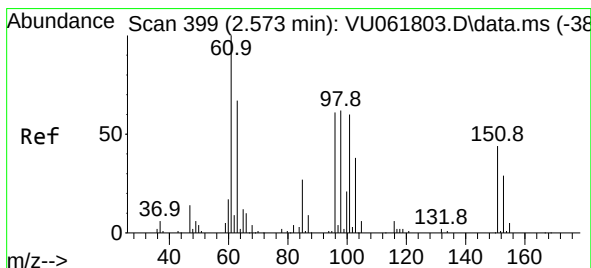
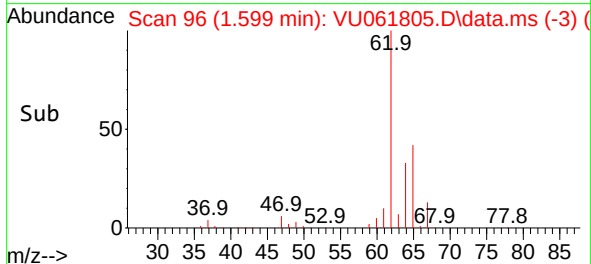
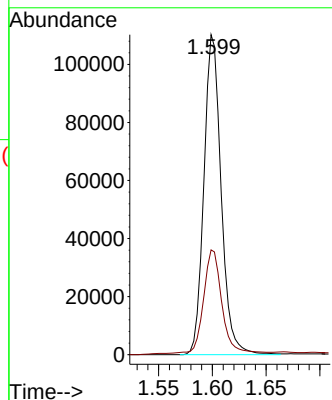
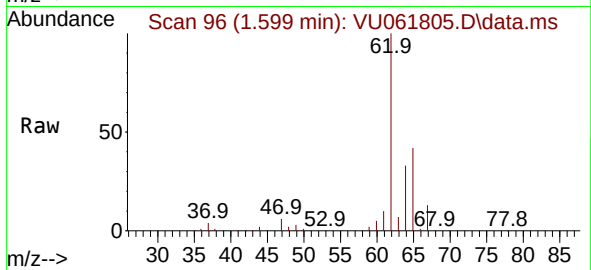




#5
 Vinyl chloride
 Concen: 9.035 ug/L
 RT: 1.599 min Scan# 90
 Delta R.T. 0.000 min
 Lab File: VU061805.D
 Acq: 18 Nov 2024 11:55

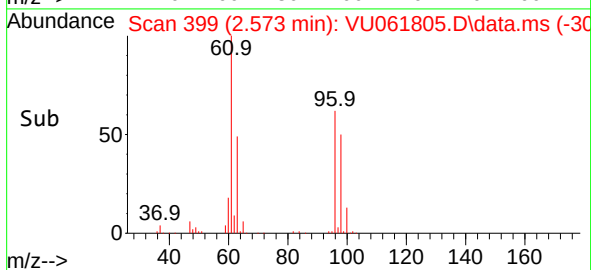
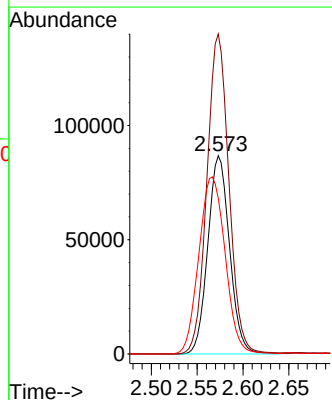
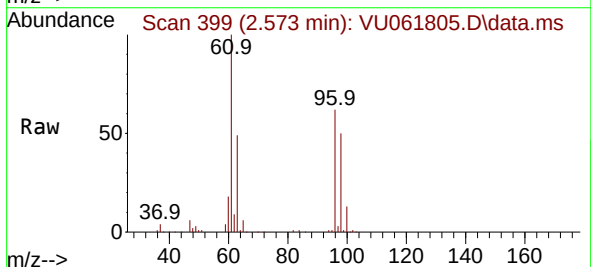
Instrument :
 MSVOA_U
 ClientSampleId :

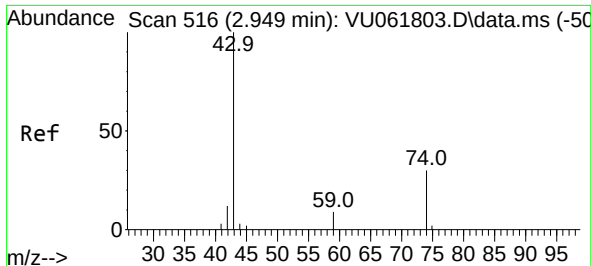
Tgt Ion: 62 Resp: 123421
 Ion Ratio Lower Upper
 62 100
 64 32.8 23.7 44.1



#12
 1,1-Dichloroethene
 Concen: 12.904 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. 0.000 min
 Lab File: VU061805.D
 Acq: 18 Nov 2024 11:55

Tgt Ion: 96 Resp: 143003
 Ion Ratio Lower Upper
 96 100
 61 161.4 116.8 217.0
 63 78.5 86.1 159.9#

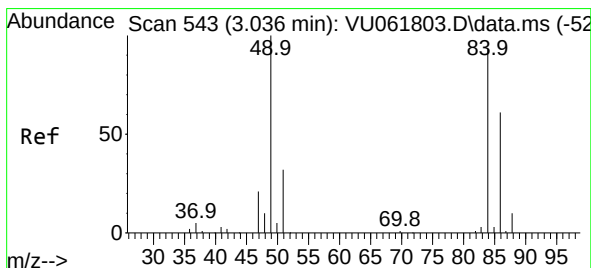
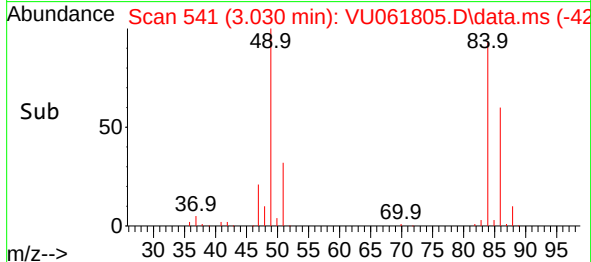
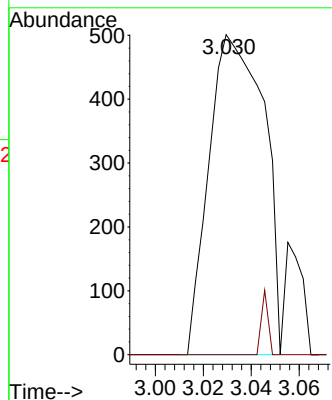
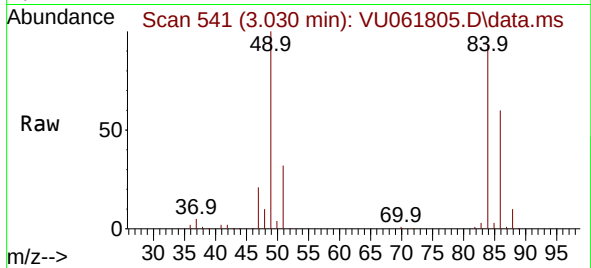




#15
Methyl Acetate
Concen: 0.200 ug/L
RT: 3.030 min Scan# 541
Delta R.T. 0.080 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

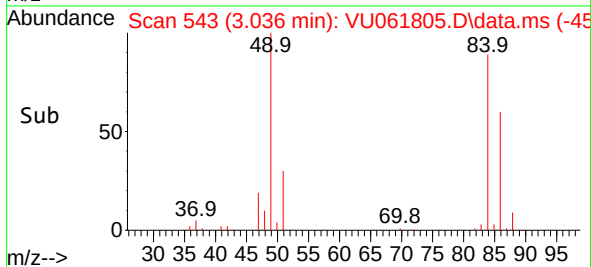
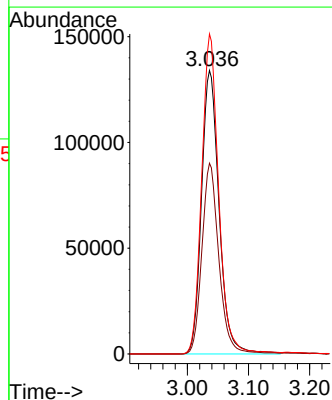
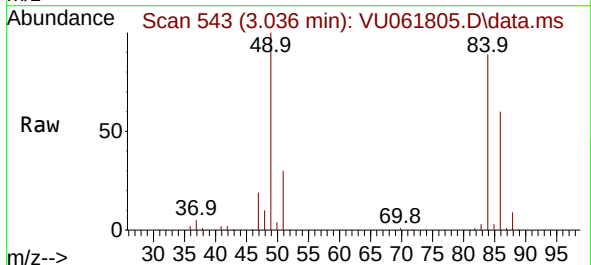
Instrument :
MSVOA_U
ClientSampleId :

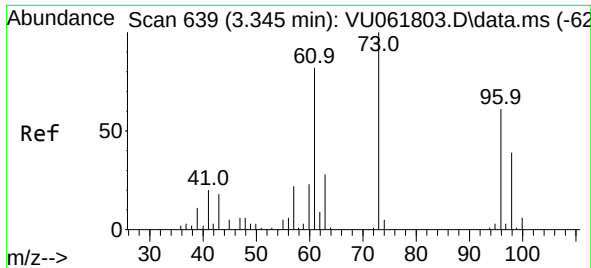
Tgt Ion: 43 Resp: 793
Ion Ratio Lower Upper
43 100
74 0.0 22.5 33.7#



#16
Methylene chloride
Concen: 20.930 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

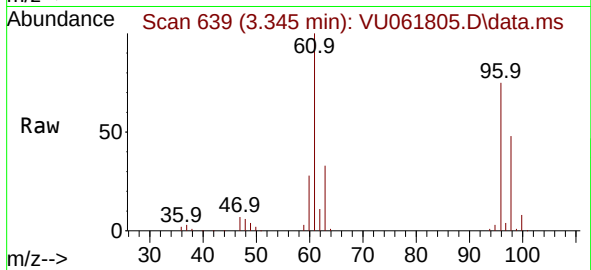
Tgt Ion: 84 Resp: 267310
Ion Ratio Lower Upper
84 100
86 67.3 45.1 83.7
49 112.9 76.3 141.7





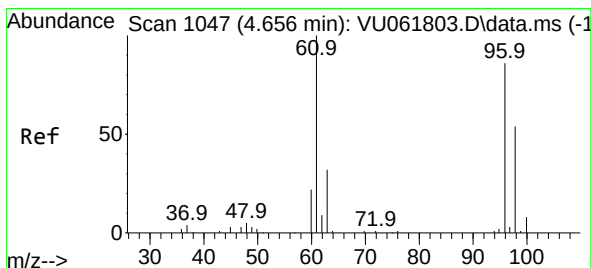
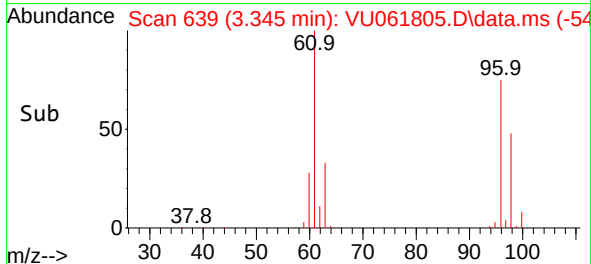
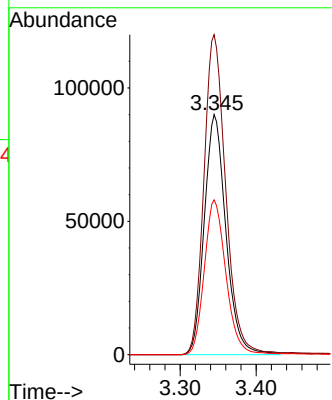
#18
trans-1,2-Dichloroethene
Concen: 14.678 ug/L
RT: 3.345 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 178425

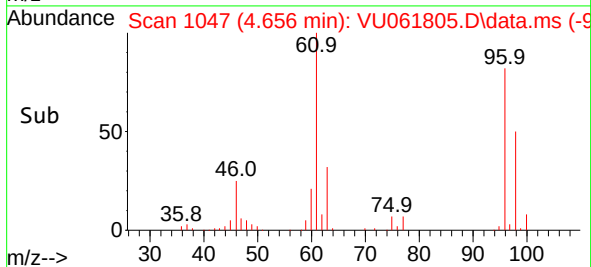
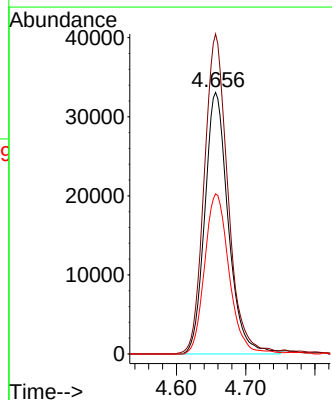
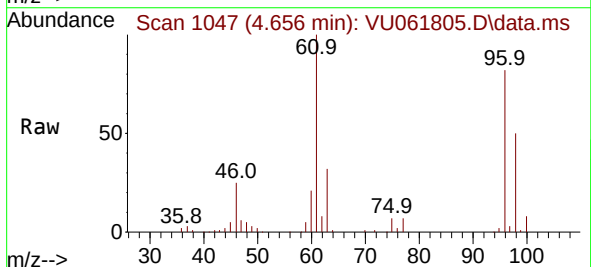
Ion	Ratio	Lower	Upper
96	100		
61	133.2	94.1	174.8
98	64.5	43.2	80.2

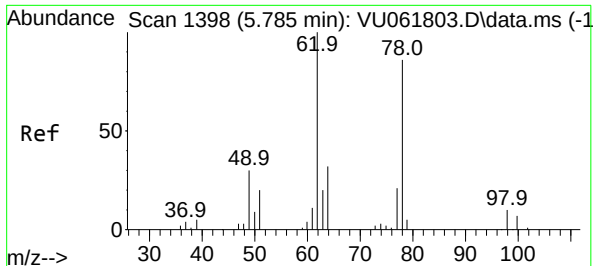


#22
cis-1,2-Dichloroethene
Concen: 5.680 ug/L
RT: 4.656 min Scan# 1047
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Tgt Ion: 96 Resp: 77860

Ion	Ratio	Lower	Upper
96	100		
61	122.3	85.6	159.0
98	61.2	45.6	84.8

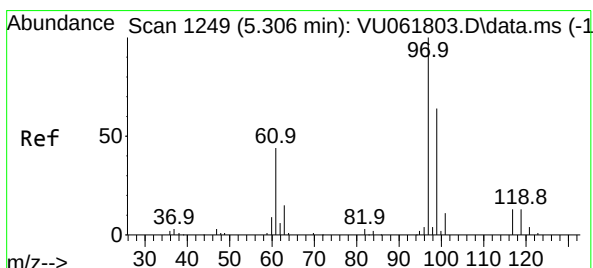
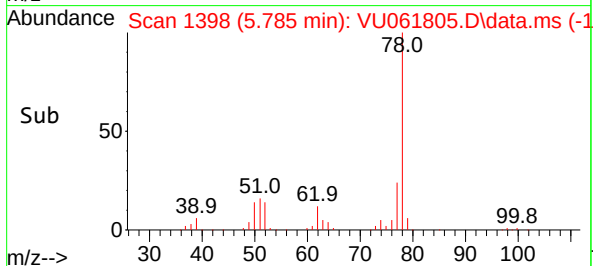
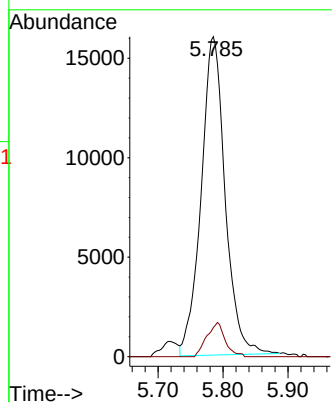
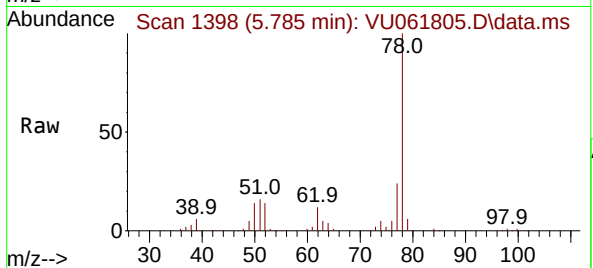




#27
1,2-Dichloroethane
Concen: 2.810 ug/L
RT: 5.785 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

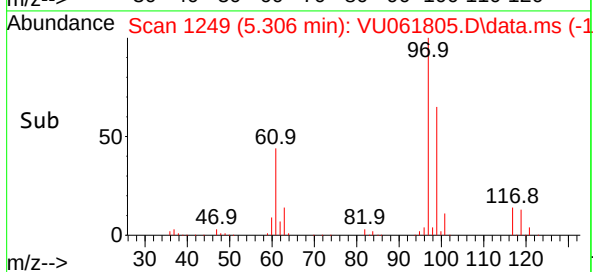
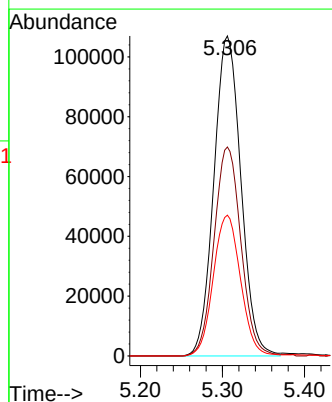
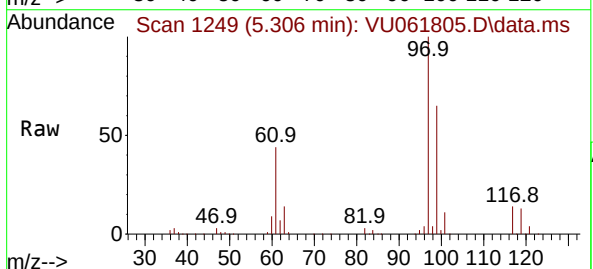
Instrument :
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ClientSampleId :

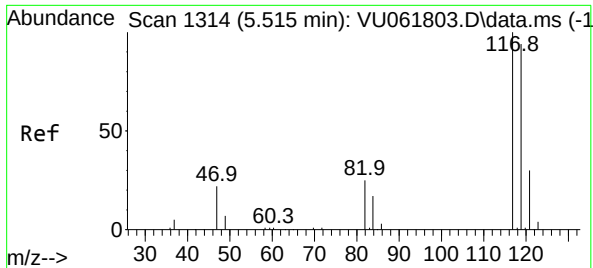
Tgt Ion: 62 Resp: 41190
Ion Ratio Lower Upper
62 100
98 9.1 7.7 11.5



#29
1,1,1-Trichloroethane
Concen: 12.663 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Tgt Ion: 97 Resp: 246026
Ion Ratio Lower Upper
97 100
99 65.0 51.7 77.5
61 44.2 35.4 53.0

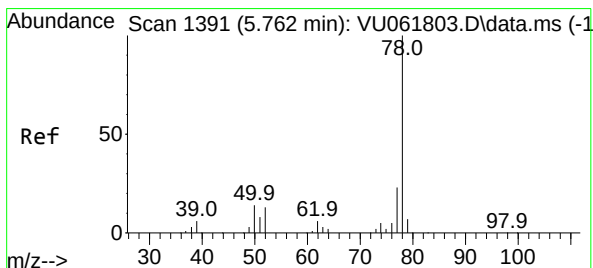
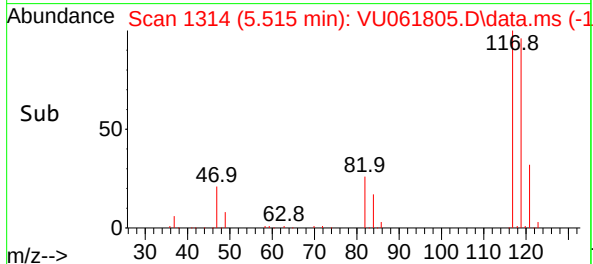
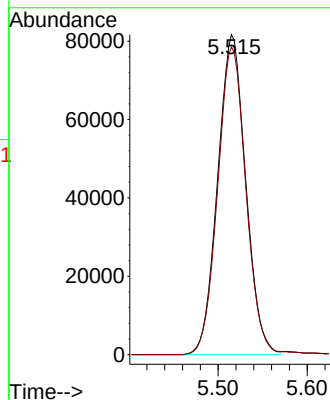
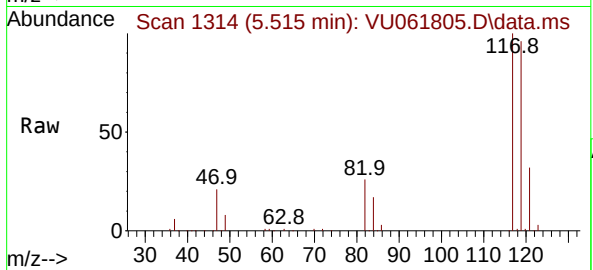




#31
Carbon tetrachloride
Concen: 10.782 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

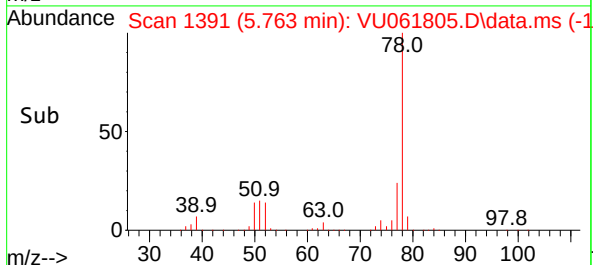
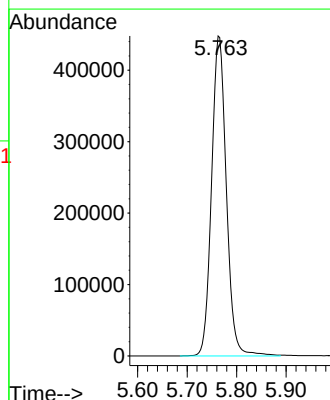
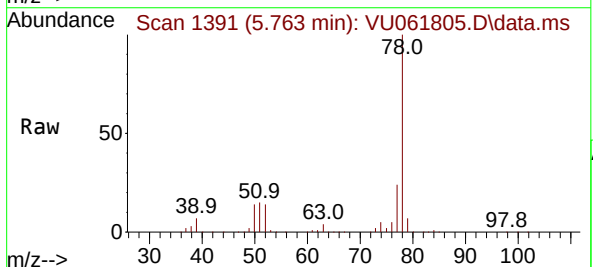
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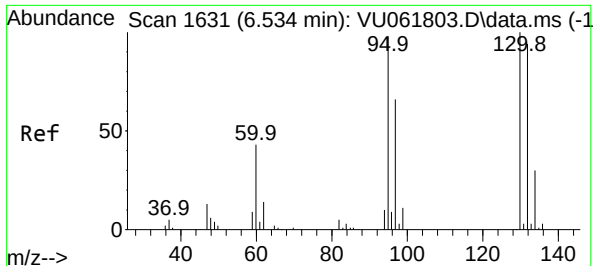
Tgt Ion:117 Resp: 178421
Ion Ratio Lower Upper
117 100
119 97.1 76.6 114.8



#33
Benzene
Concen: 17.937 ug/L
RT: 5.763 min Scan# 1391
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Tgt Ion: 78 Resp: 926912





#34

Trichloroethene

Concen: 4.780 ug/L

RT: 6.534 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU061805.D

Acq: 18 Nov 2024 11:55

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 66696

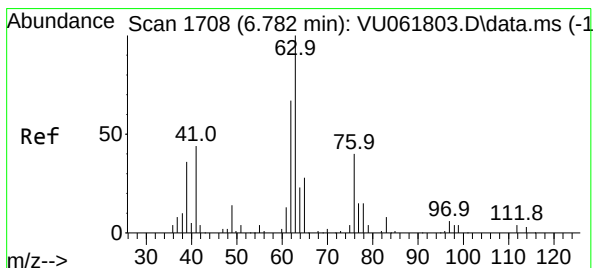
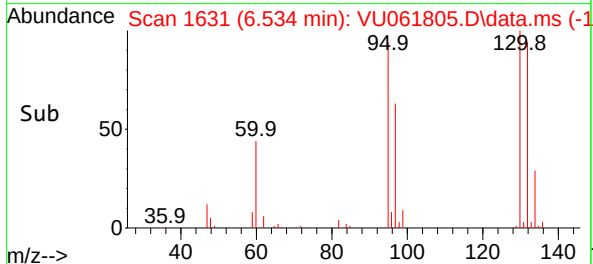
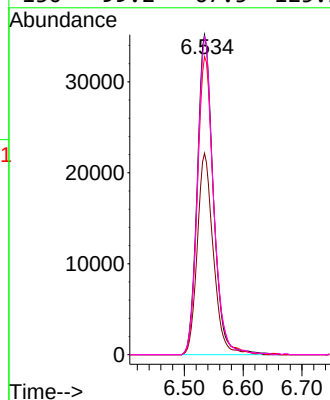
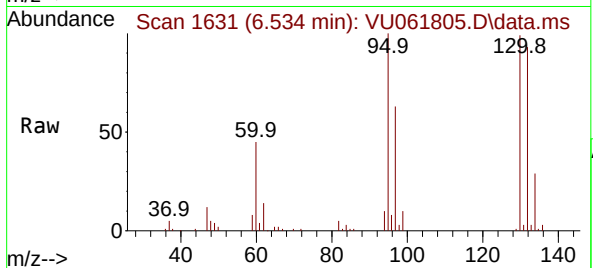
Ion Ratio Lower Upper

95 100

97 62.9 43.5 80.9

132 93.2 65.2 121.0

130 99.2 67.5 125.3



#37

1,2-Dichloropropane

Concen: 14.157 ug/L

RT: 6.782 min Scan# 1708

Delta R.T. 0.000 min

Lab File: VU061805.D

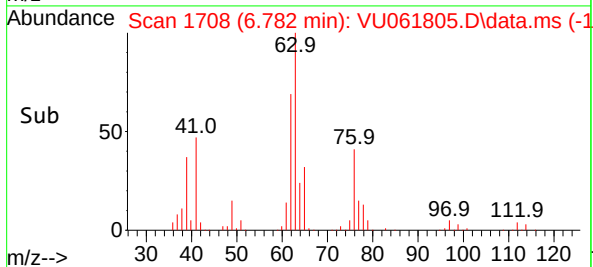
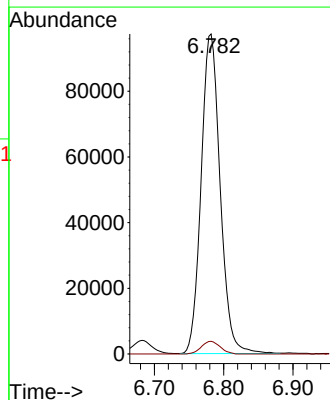
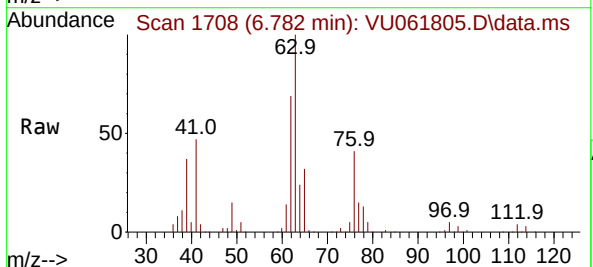
Acq: 18 Nov 2024 11:55

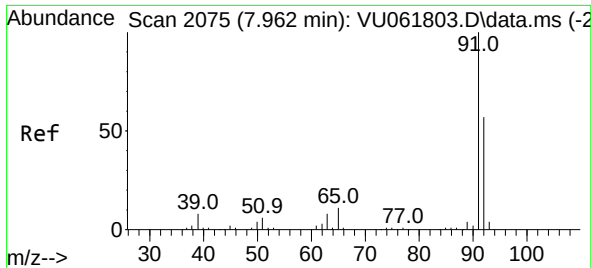
Tgt Ion: 63 Resp: 185594

Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.4

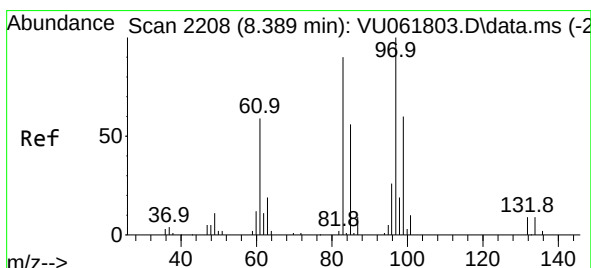
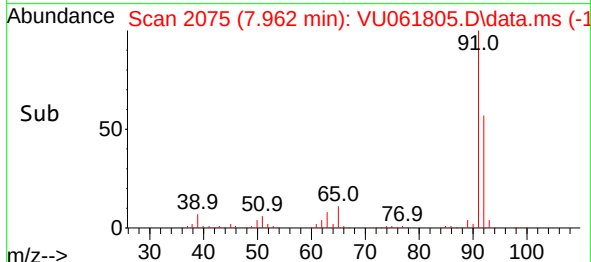
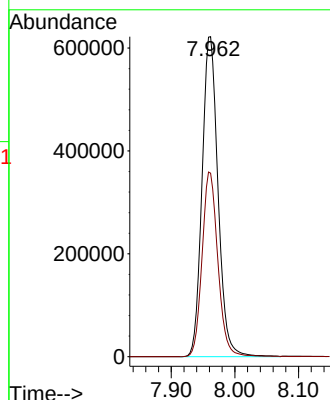
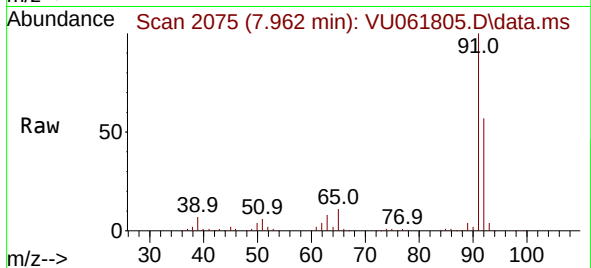




#42
Toluene
Concen: 19.501 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

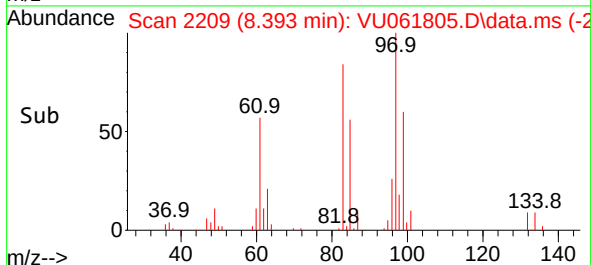
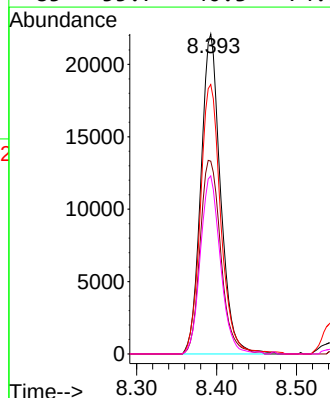
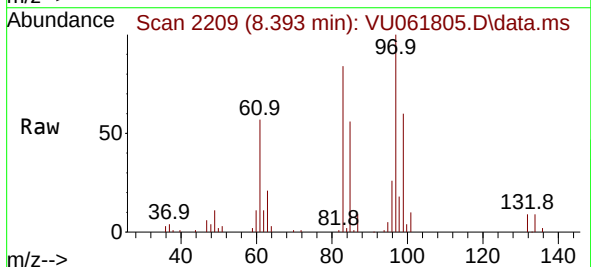
Instrument :
MSVOA_U
ClientSampleId :

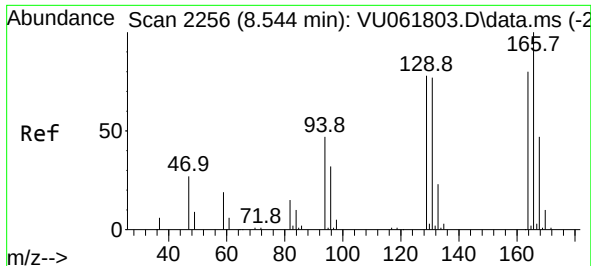
Tgt Ion: 91 Resp: 1084974
Ion Ratio Lower Upper
91 100
92 57.4 39.7 73.7



#45
1,1,2-Trichloroethane
Concen: 3.972 ug/L
RT: 8.393 min Scan# 2209
Delta R.T. 0.003 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Tgt Ion: 97 Resp: 37957
Ion Ratio Lower Upper
97 100
99 60.3 43.8 81.3
83 84.2 63.2 117.4
85 55.7 40.3 74.8





#47

Tetrachloroethene

Concen: 13.761 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. 0.000 min

Lab File: VU061805.D

Acq: 18 Nov 2024 11:55

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 144281

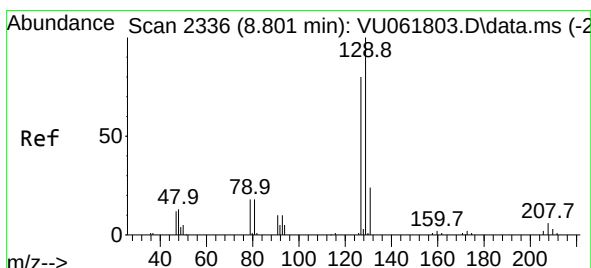
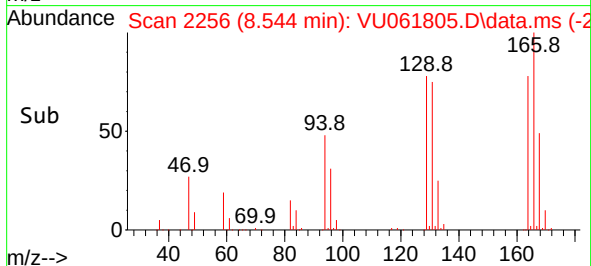
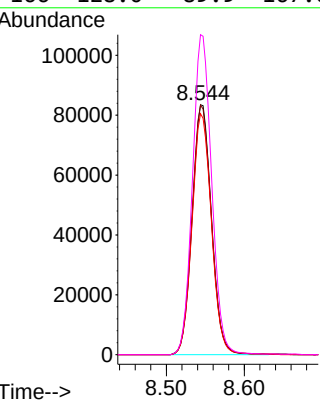
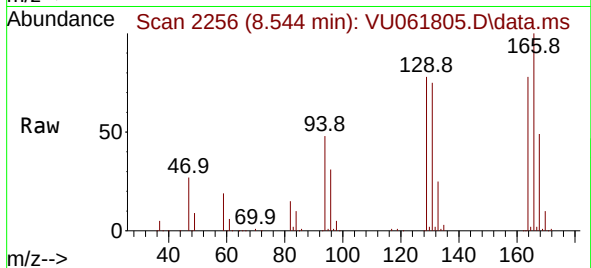
Ion Ratio Lower Upper

164 100

129 99.9 71.7 133.3

131 96.4 68.2 126.6

166 128.0 89.9 167.0



#49

Dibromochloromethane

Concen: 14.255 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061805.D

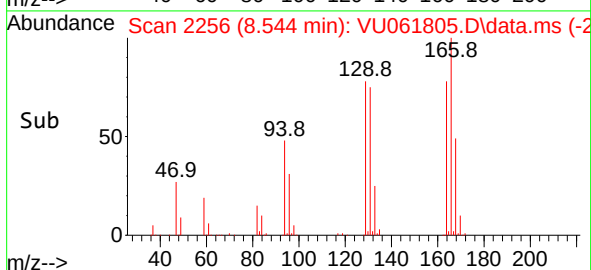
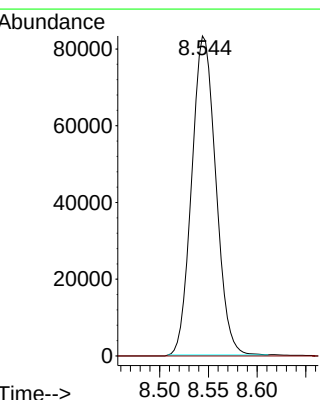
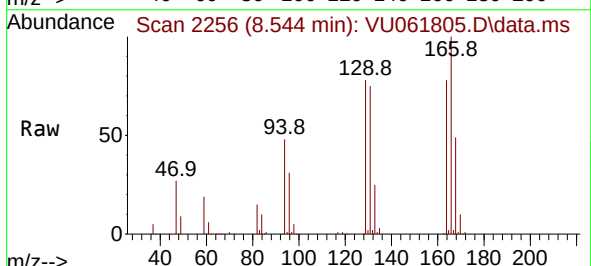
Acq: 18 Nov 2024 11:55

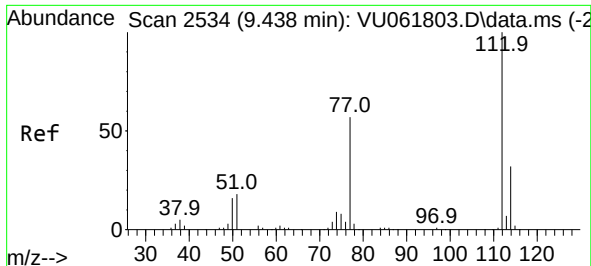
Tgt Ion:129 Resp: 142845

Ion Ratio Lower Upper

129 100

127 0.0 55.1 102.3#

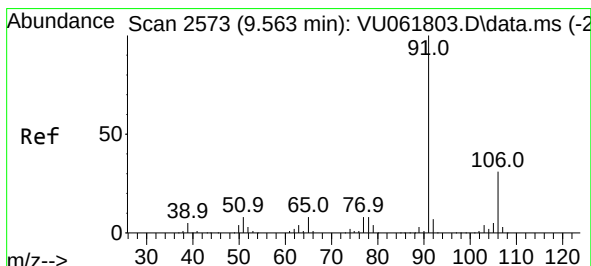
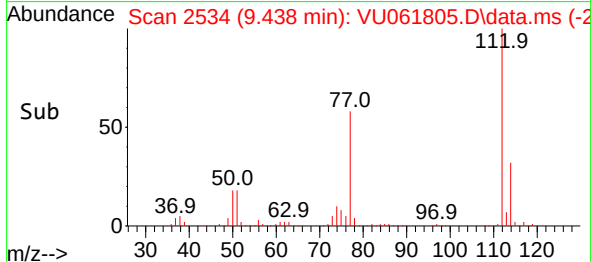
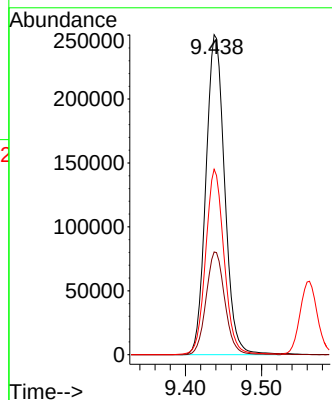
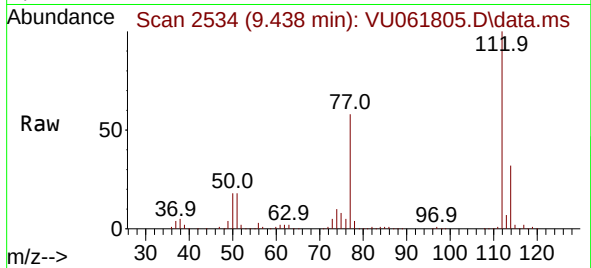




#51
Chlorobenzene
Concen: 11.965 ug/L
RT: 9.438 min Scan# 2534
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

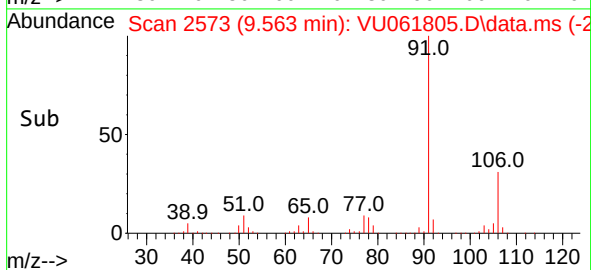
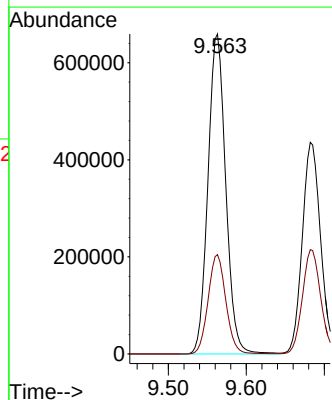
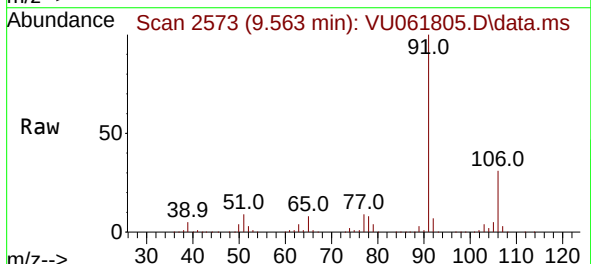
Instrument :
MSVOA_U
ClientSampleId :

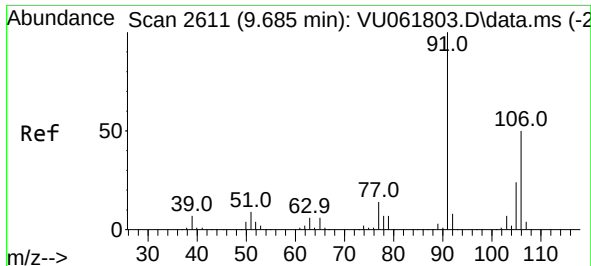
Tgt Ion:112 Resp: 428488
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.9
77 57.9 45.3 67.9



#52
Ethylbenzene
Concen: 17.599 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Tgt Ion: 91 Resp: 1043061
Ion Ratio Lower Upper
91 100
106 31.1 21.7 40.3

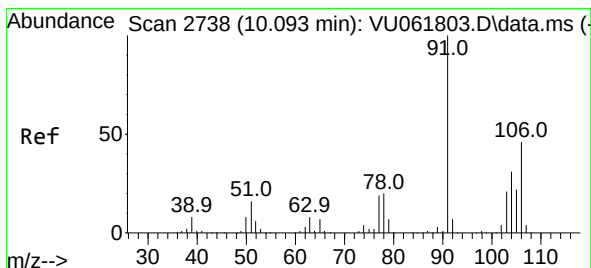
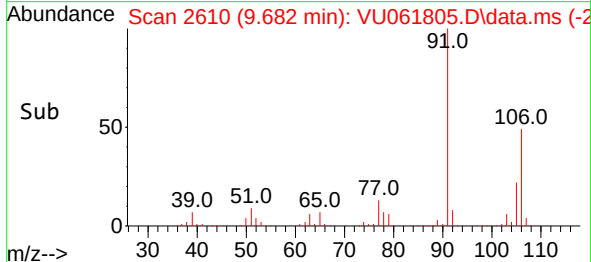
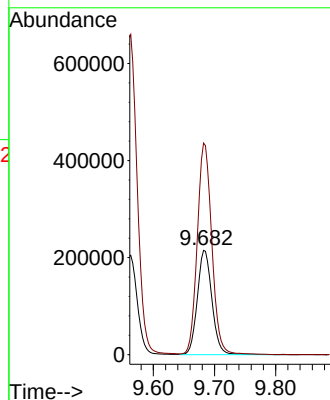
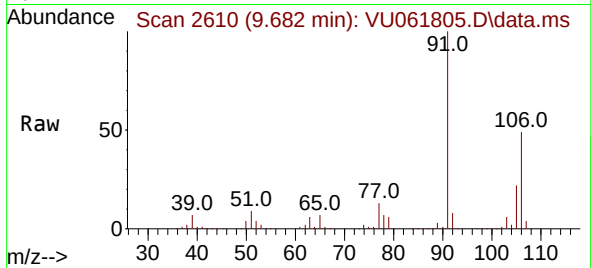




#53
m,p-Xylene
Concen: 15.705 ug/L
RT: 9.682 min Scan# 20
Delta R.T. -0.003 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

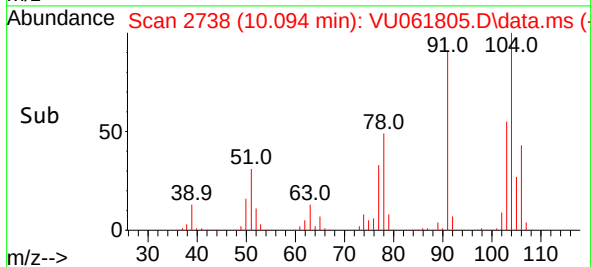
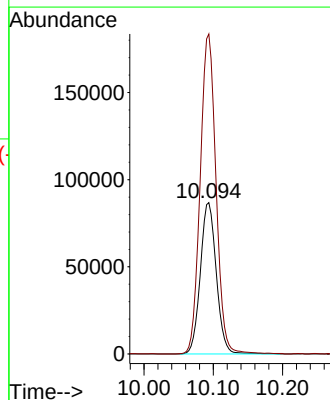
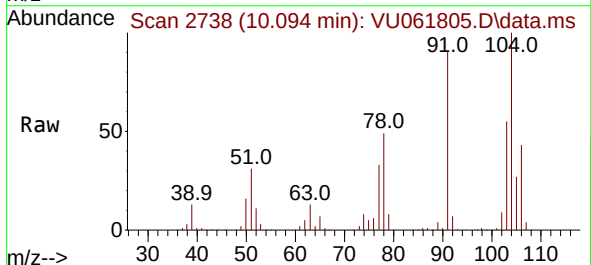
Instrument :
MSVOA_U
ClientSampleId :

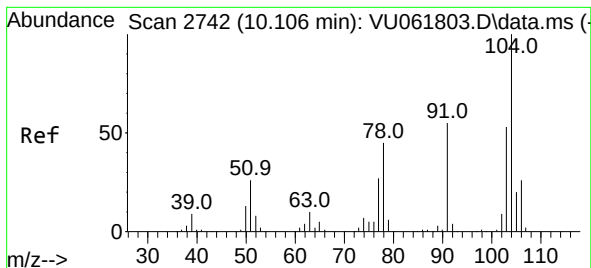
Tgt Ion:106 Resp: 356142
Ion Ratio Lower Upper
106 100
91 202.8 140.4 260.8



#54
o-Xylene
Concen: 6.295 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Tgt Ion:106 Resp: 138760
Ion Ratio Lower Upper
106 100
91 211.4 151.3 280.9





#55

Styrene

Concen: 20.024 ug/L

RT: 10.106 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU061805.D

Acq: 18 Nov 2024 11:55

Instrument :

MSVOA_U

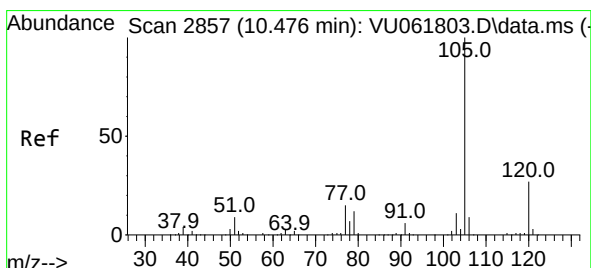
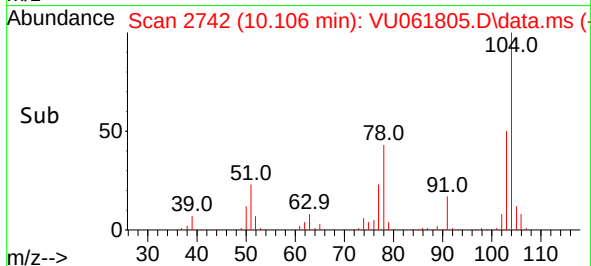
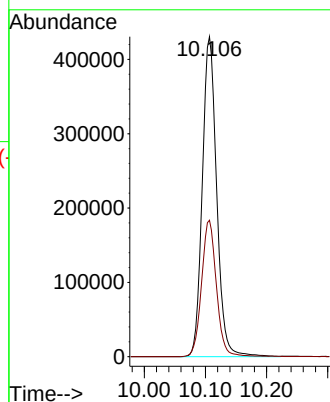
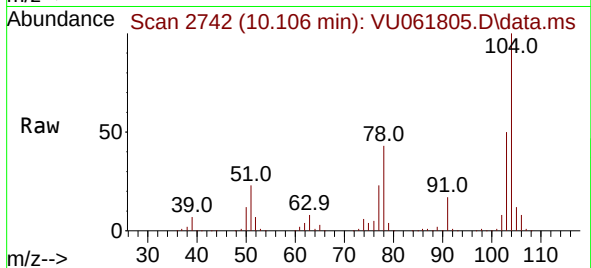
ClientSampleId :

Tgt Ion:104 Resp: 702706

Ion Ratio Lower Upper

104 100

78 42.6 31.6 58.6



#60

Isopropylbenzene

Concen: 2.013 ug/L

RT: 10.100 min Scan# 2740

Delta R.T. -0.376 min

Lab File: VU061805.D

Acq: 18 Nov 2024 11:55

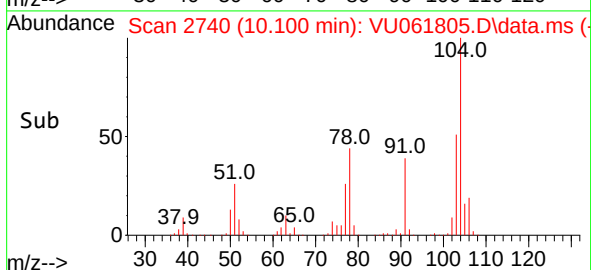
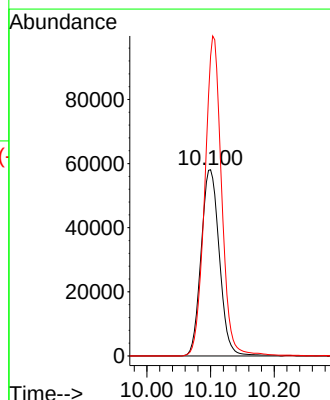
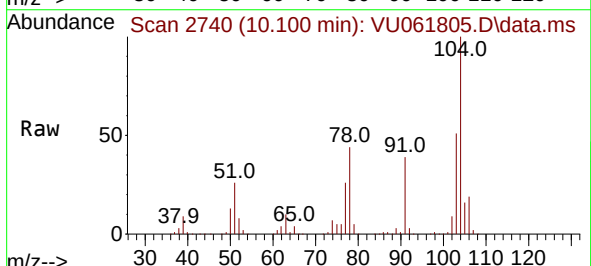
Tgt Ion:105 Resp: 115650

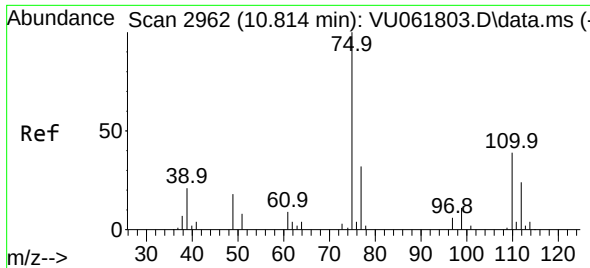
Ion Ratio Lower Upper

105 100

120 0.0 21.6 32.4#

77 158.3 12.8 19.2#

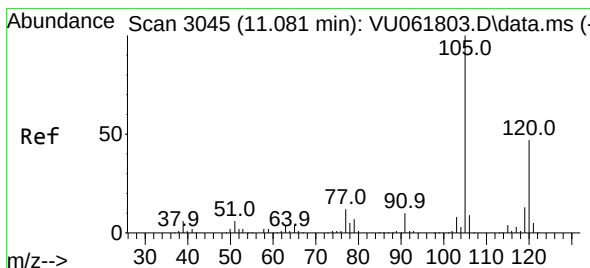
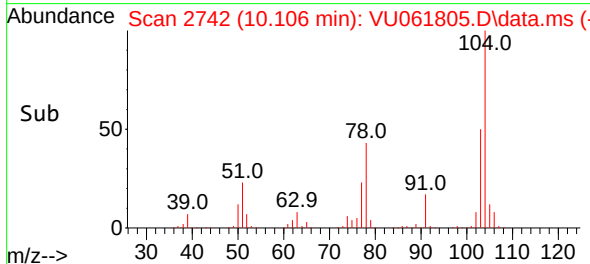
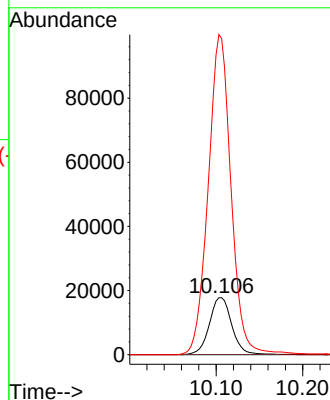
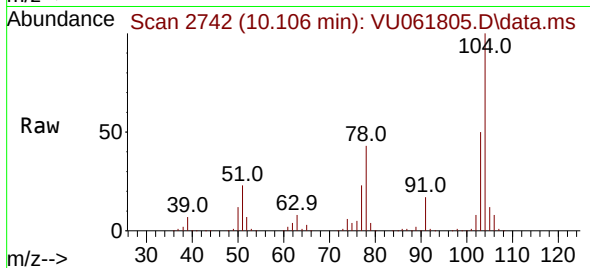




#61
 1,2,3-Trichloropropane
 Concen: 4.100 ug/L
 RT: 10.106 min Scan# 21
 Delta R.T. -0.707 min
 Lab File: VU061805.D
 Acq: 18 Nov 2024 11:55

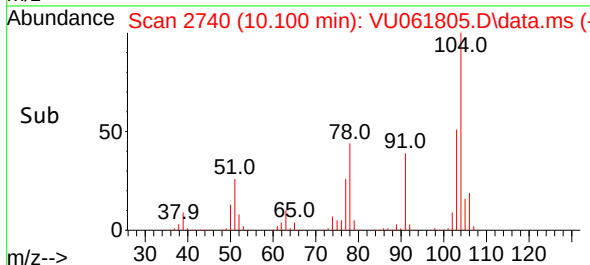
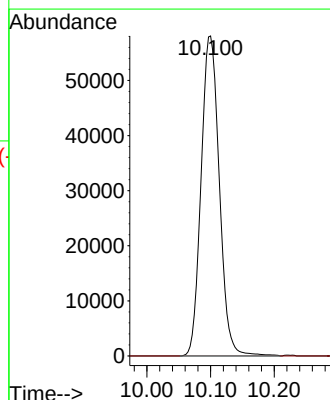
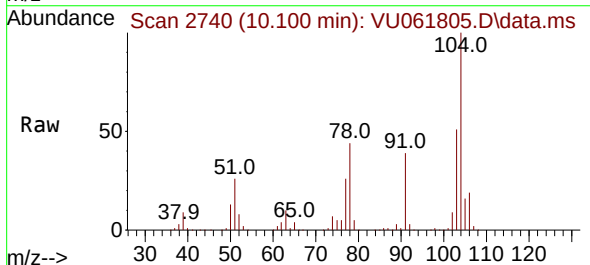
Instrument :
 MSVOA_U
 ClientSampleId :

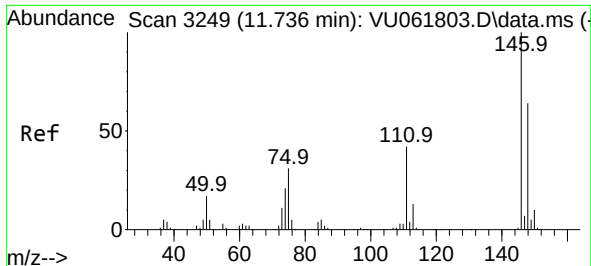
Tgt Ion: 75 Resp: 31988
 Ion Ratio Lower Upper
 75 100
 110 0.0 31.3 46.9#
 77 572.3 26.0 39.0#



#62
 1,3,5-Trimethylbenzene
 Concen: 2.515 ug/L
 RT: 10.100 min Scan# 2740
 Delta R.T. -0.981 min
 Lab File: VU061805.D
 Acq: 18 Nov 2024 11:55

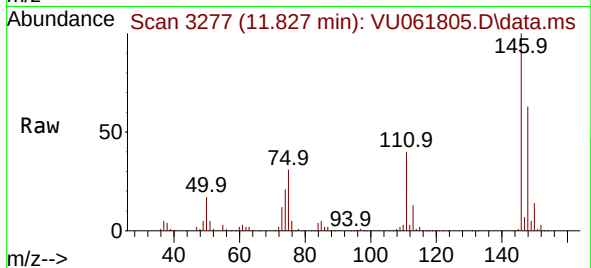
Tgt Ion: 105 Resp: 115650
 Ion Ratio Lower Upper
 105 100
 120 0.0 38.5 57.7#



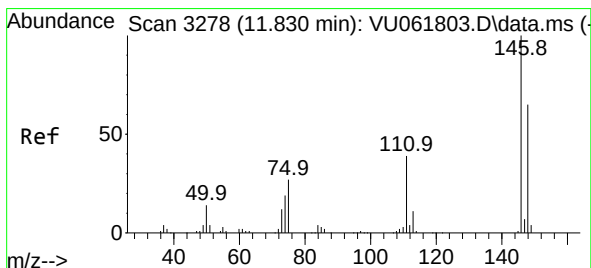
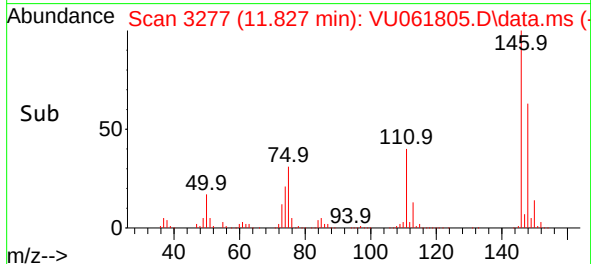
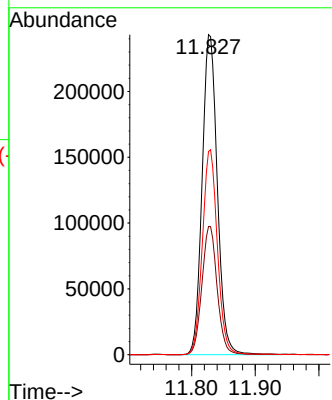


#64
1,3-Dichlorobenzene
Concen: 15.299 ug/L
RT: 11.827 min Scan# 3277
Delta R.T. 0.090 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

Instrument :
MSVOA_U
ClientSampleId :

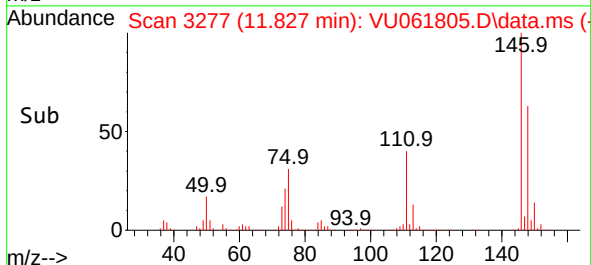
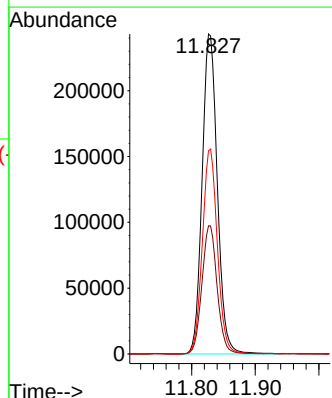
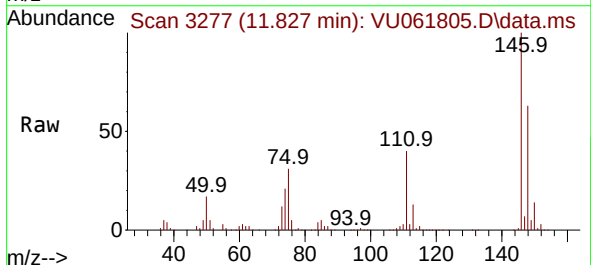


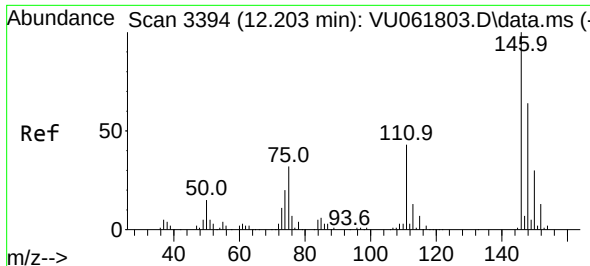
Tgt Ion:146 Resp: 403024
Ion Ratio Lower Upper
146 100
111 40.1 29.3 54.3
148 63.5 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 15.067 ug/L
RT: 11.827 min Scan# 3277
Delta R.T. -0.003 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

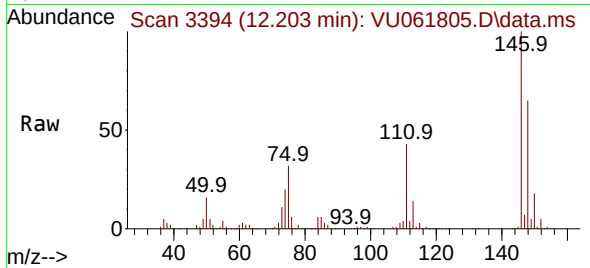
Tgt Ion:146 Resp: 403024
Ion Ratio Lower Upper
146 100
111 40.1 28.8 53.4
148 63.5 44.7 83.1



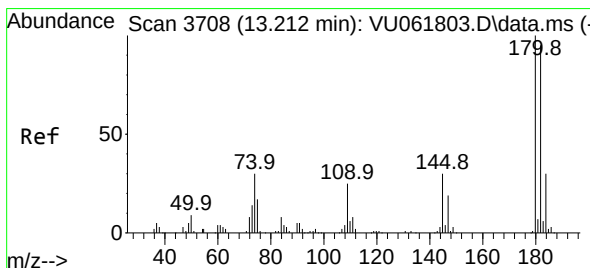
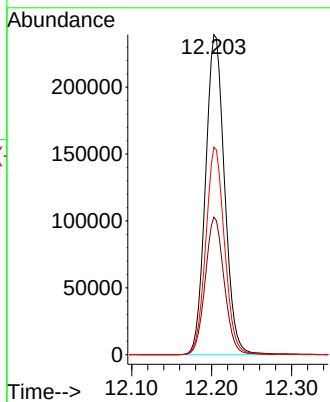
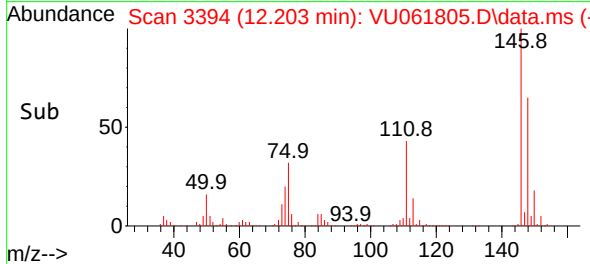


#67
1,2-Dichlorobenzene
Concen: 16.166 ug/L
RT: 12.203 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

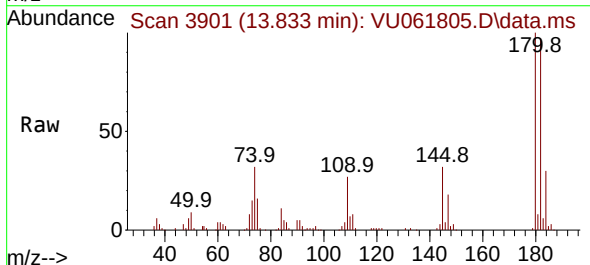
Instrument :
MSVOA_U
ClientSampleId :



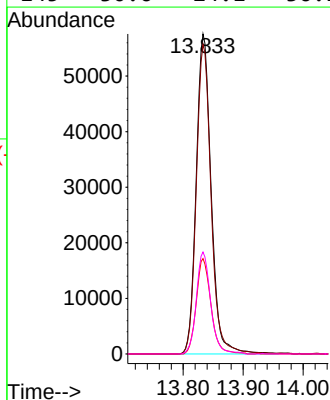
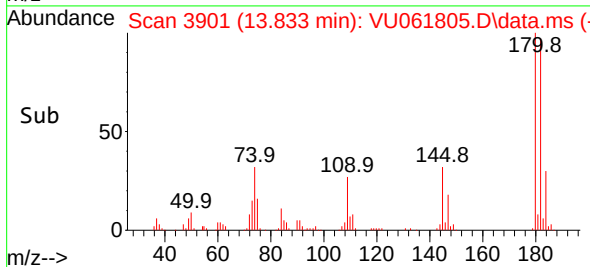
Tgt Ion:146 Resp: 396060
Ion Ratio Lower Upper
146 100
111 43.0 35.2 52.8
148 64.8 52.6 79.0

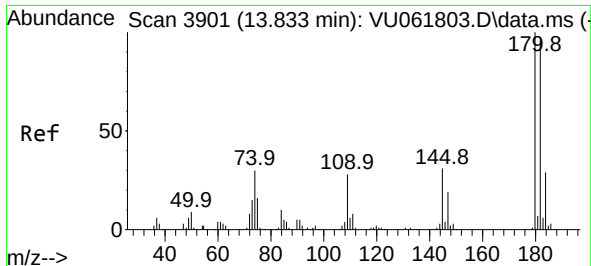


#69
1,3,5-Trichlorobenzene
Concen: 5.437 ug/L
RT: 13.833 min Scan# 3901
Delta R.T. 0.621 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55



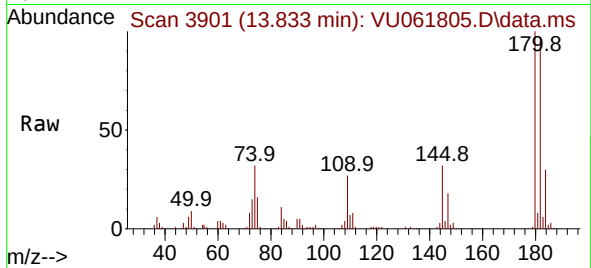
Tgt Ion:180 Resp: 100005
Ion Ratio Lower Upper
180 100
182 95.6 77.1 115.7
184 29.3 24.7 37.1
145 30.6 24.1 36.1



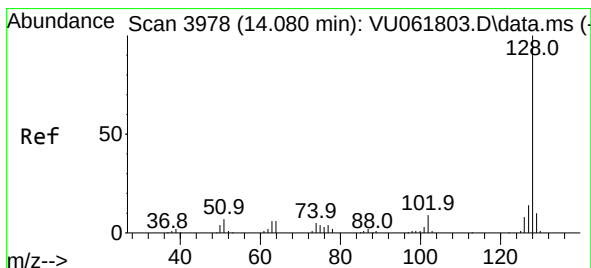
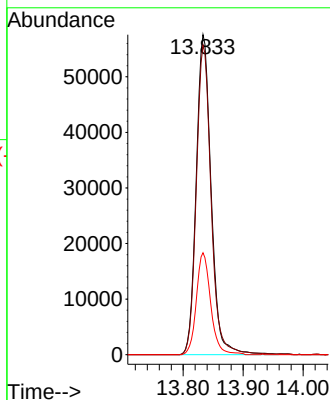
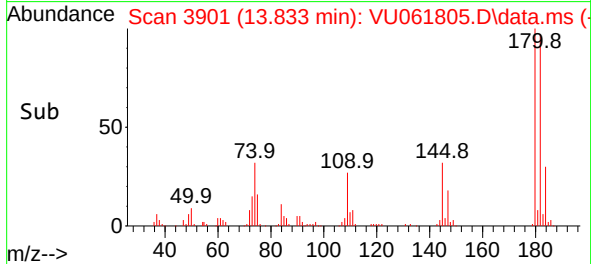


#70
1,2,4-trichlorobenzene
Concen: 7.016 ug/L
RT: 13.833 min Scan# 3901
Delta R.T. 0.000 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55

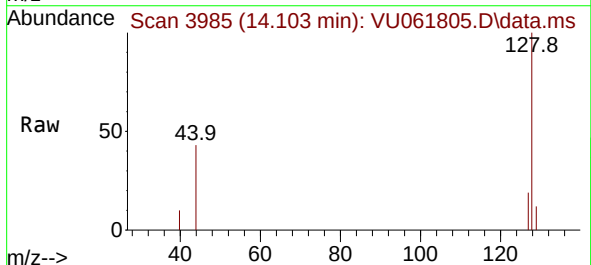
Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:180 Resp: 100005
Ion Ratio Lower Upper
180 100
182 95.6 77.4 116.0
145 30.6 24.5 36.7



#71
Naphthalene
Concen: 0.130 ug/L
RT: 14.103 min Scan# 3985
Delta R.T. 0.023 min
Lab File: VU061805.D
Acq: 18 Nov 2024 11:55



Tgt Ion:128 Resp: 2657
Ion Ratio Lower Upper
128 100
129 1.8 8.5 12.7#
127 7.3 10.4 15.6#

