

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012423\
 Data File : VU052795.D
 Acq On : 24 Jan 2023 17:13
 Operator : JC/MD
 Sample : 01245-08DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Jan 25 01:40:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U012323DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Jan 24 05:16:59 2023
 Response via : Initial Calibration

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

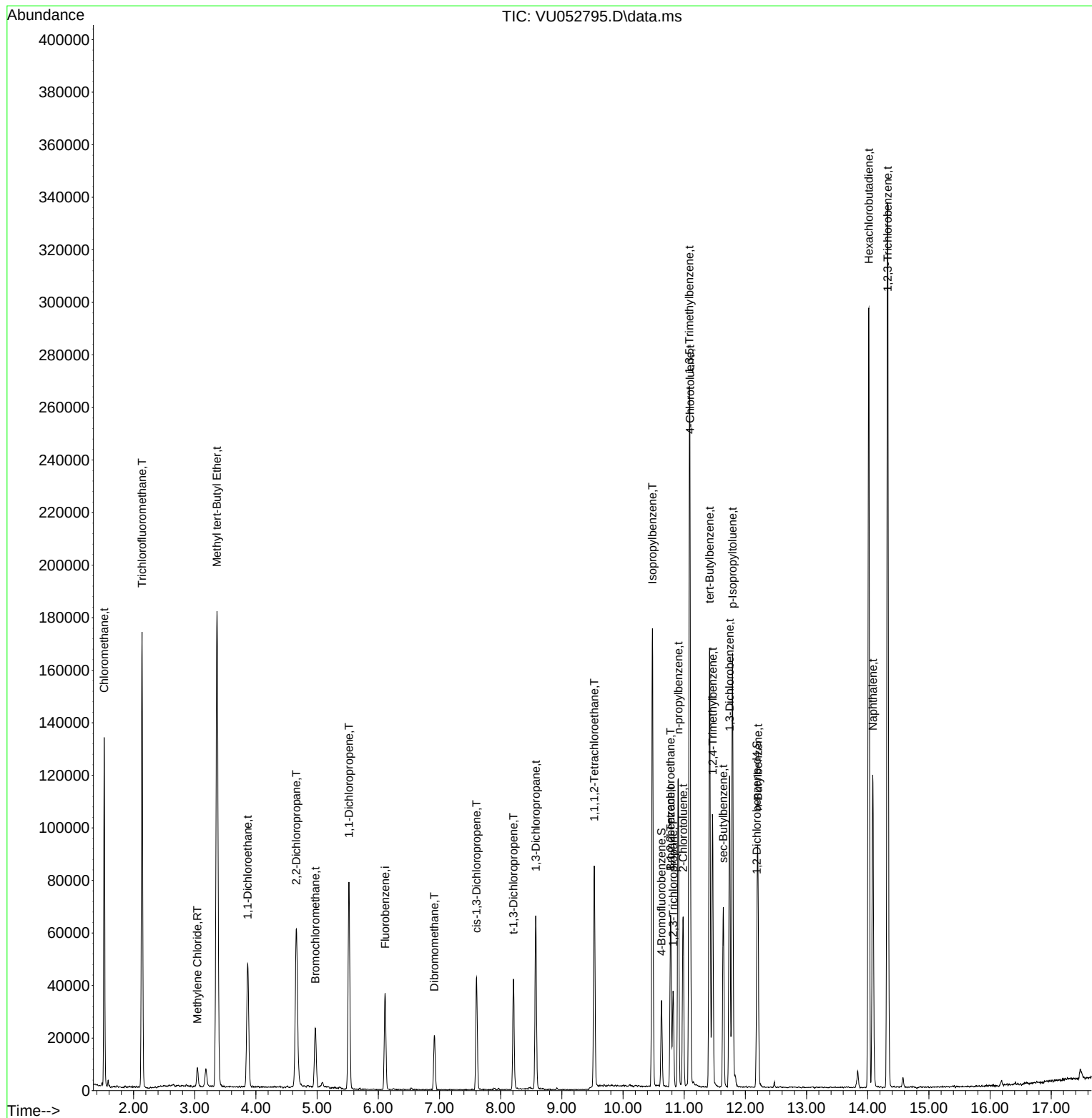
Internal Standards						
1) Fluorobenzene	6.112	96	35473	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.629	95	10556	0.895	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.000%	
68) 1,2-Dichlorobenzene-d4	12.189	152	12227	1.007	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	92615	8.130	ug/l	97
7) Trichlorofluoromethane	2.138	101	114447	7.142	ug/l	98
15) Methylene Chloride	3.041	84	3851	0.385	ug/l	93
17) 1,1-Dichloroethane	3.864	63	53091	3.414	ug/l	98
21) 2,2-Dichloropropane	4.658	77	41277	2.858	ug/l	94
25) Methyl tert-Butyl Ether	3.363	73	209629	11.040	ug/l	100
26) Bromochloromethane	4.970	128	7665	1.706	ug/l	98
29) 1,1-Dichloropropene	5.520	75	42221	3.253	ug/l	99
43) Dibromomethane	6.915	93	7797	1.612	ug/l	99
50) t-1,3-Dichloropropene	8.208	75	24297	2.123	ug/l	95
51) cis-1,3-Dichloropropene	7.607	75	25976	1.930	ug/l	98
53) 1,3-Dichloropropane	8.575	76	39231	3.300	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.530	131	23367	2.426	ug/l	98
69) Isopropylbenzene	10.481	105	106879	2.709	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.777	83	11998	1.400	ug/l	97
71) 1,2,3-Trichloropropane	10.819	75	15329	2.066	ug/l	85
72) Bromobenzene	10.777	156	11751	1.172	ug/l	99
73) n-propylbenzene	10.902	120	19902	1.870	ug/l	99
74) 2-Chlorotoluene	10.983	126	12548	1.259	ug/l	93
75) 1,3,5-Trimethylbenzene	11.086	105	75239	2.198	ug/l	96
76) 4-Chlorotoluene	11.095	126	31885	3.117	ug/l	87
77) tert-Butylbenzene	11.417	119	77748	2.266	ug/l	91
78) 1,2,4-Trimethylbenzene	11.465	105	55586	1.734	ug/l	98
79) sec-Butylbenzene	11.639	105	44102	1.222	ug/l	99
81) p-Isopropyltoluene	11.790	119	91247	2.364	ug/l	97
82) 1,3-Dichlorobenzene	11.742	146	49770	2.432	ug/l	100
84) n-Butylbenzene	12.205	91	37876	1.435	ug/l	97
88) Hexachlorobutadiene	14.018	225	58499	7.207	ug/l	99
89) Naphthalene	14.082	128	102807	4.579	ug/l	99
90) 1,2,3-Trichlorobenzene	14.327	180	110208	10.025	ug/l	100

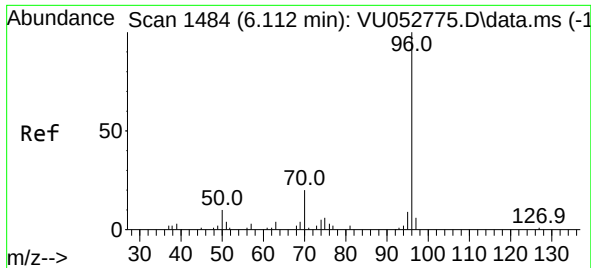
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012423\
Data File : VU052795.D
Acq On : 24 Jan 2023 17:13
Operator : JC/MD
Sample : 01245-08DL 5X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

Quant Time: Jan 25 01:40:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U012323DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Jan 24 05:16:59 2023
Response via : Initial Calibration

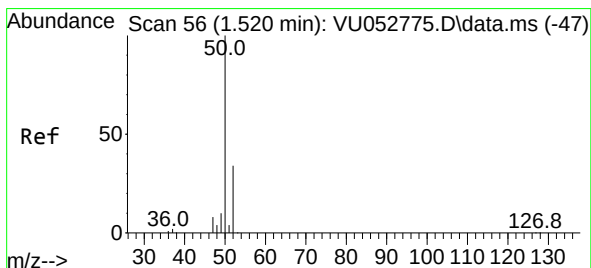
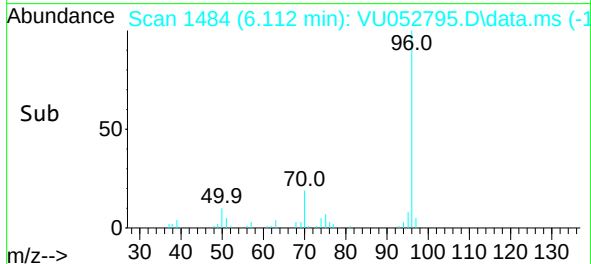
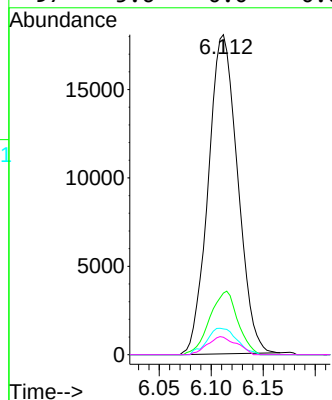
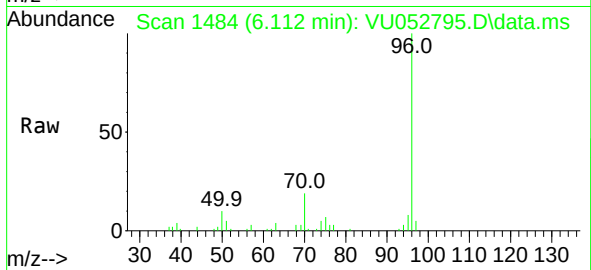




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.112 min Scan# 1484
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

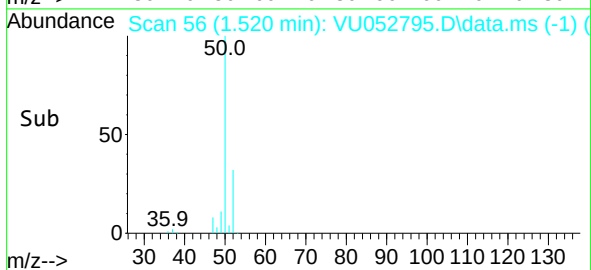
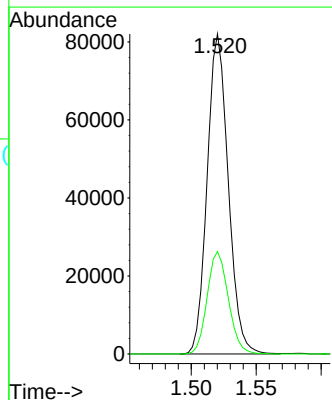
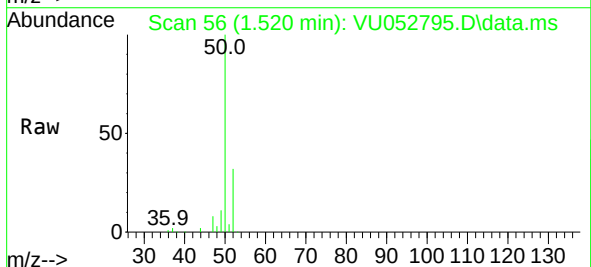
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

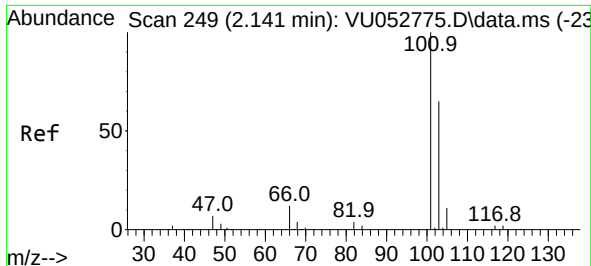
Tgt Ion:	96	Resp:	35473
Ion	Ratio	Lower	Upper
96	100		
70	19.0	16.2	24.4
95	8.5	7.4	11.0
97	5.6	0.0	0.0



#3
Chloromethane
Concen: 8.130 ug/l
RT: 1.520 min Scan# 56
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion:	50	Resp:	92615
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.8	40.2

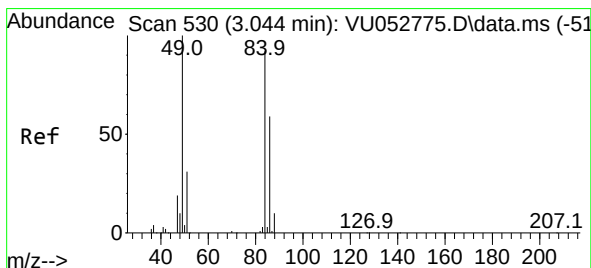
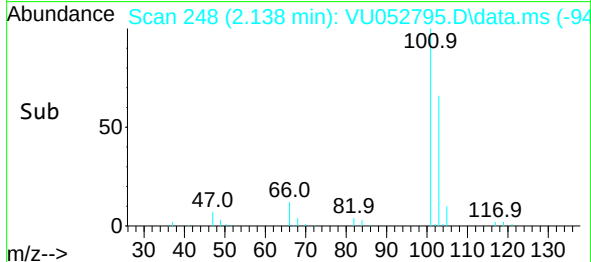
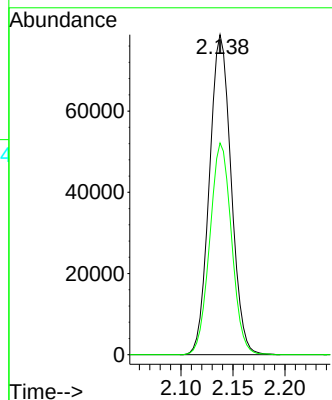
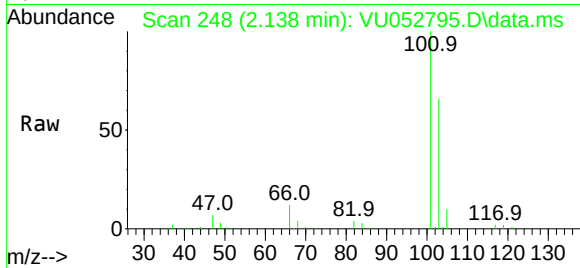




#7
 Trichlorofluoromethane
 Concen: 7.142 ug/l
 RT: 2.138 min Scan# 249
 Delta R.T. -0.003 min
 Lab File: VU052795.D
 Acq: 24 Jan 2023 17:13

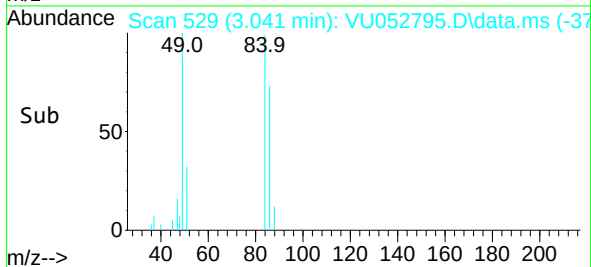
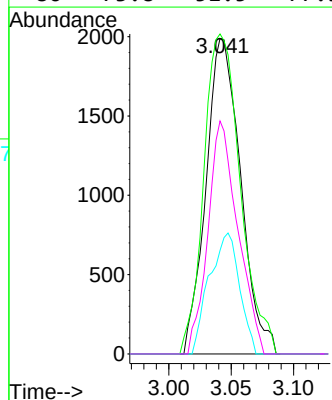
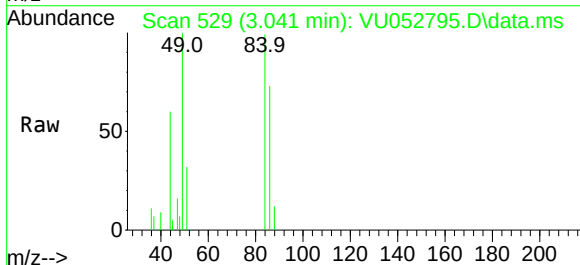
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

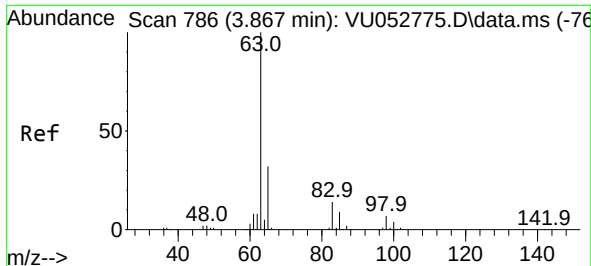
Tgt Ion:101 Resp: 114447
 Ion Ratio Lower Upper
 101 100
 103 66.2 51.6 77.4



#15
 Methylene Chloride
 Concen: 0.385 ug/l
 RT: 3.041 min Scan# 529
 Delta R.T. -0.003 min
 Lab File: VU052795.D
 Acq: 24 Jan 2023 17:13

Tgt Ion: 84 Resp: 3851
 Ion Ratio Lower Upper
 84 100
 49 101.4 86.7 130.1
 51 32.8 0.0 66.8
 86 73.8 51.5 77.3

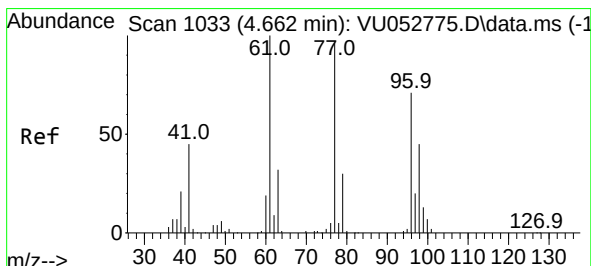
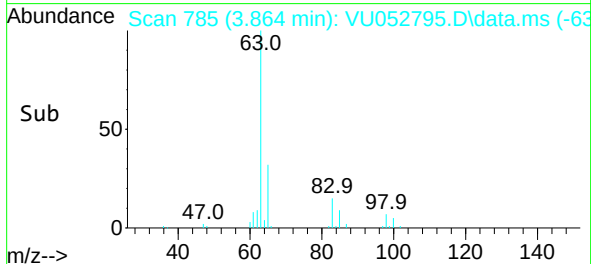
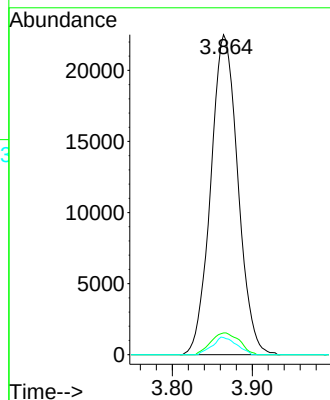
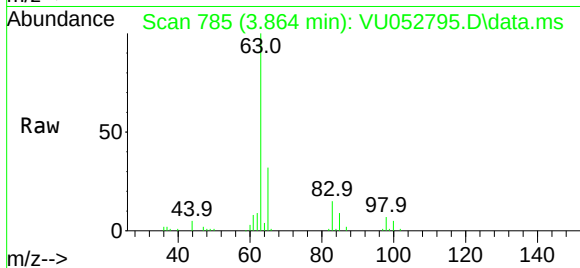




#17
1,1-Dichloroethane
Concen: 3.414 ug/l
RT: 3.864 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

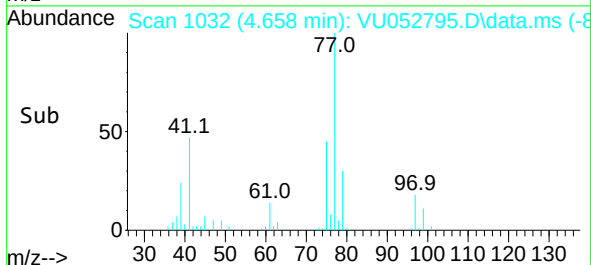
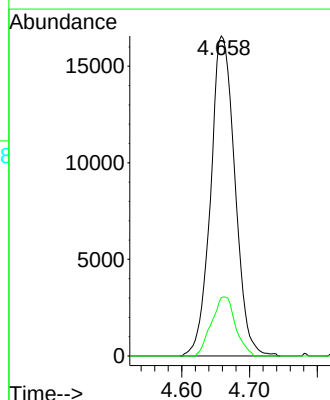
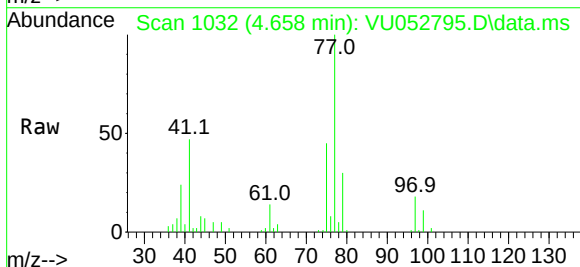
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

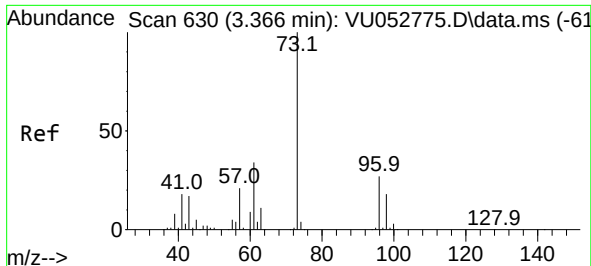
Tgt Ion: 63 Resp: 53091
Ion Ratio Lower Upper
63 100
98 6.8 3.8 11.2
100 5.3 2.2 6.6



#21
2,2-Dichloropropane
Concen: 2.858 ug/l
RT: 4.658 min Scan# 1032
Delta R.T. -0.003 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion: 77 Resp: 41277
Ion Ratio Lower Upper
77 100
97 18.1 16.8 25.2





#25

Methyl tert-Butyl Ether

Concen: 11.040 ug/l

RT: 3.363 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

Instrument :

MSVOA_U

ClientSampleId :

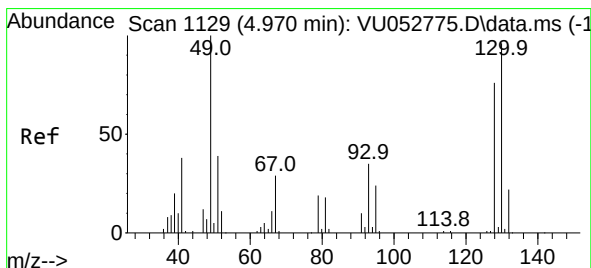
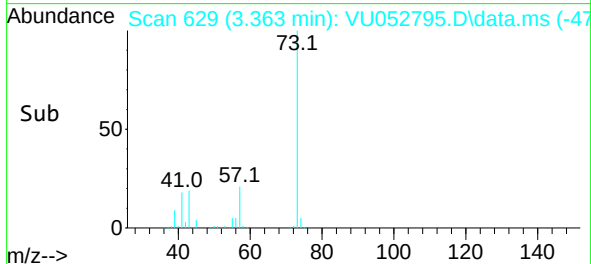
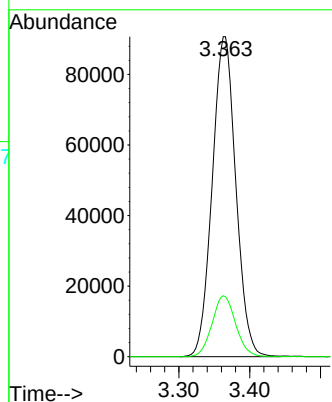
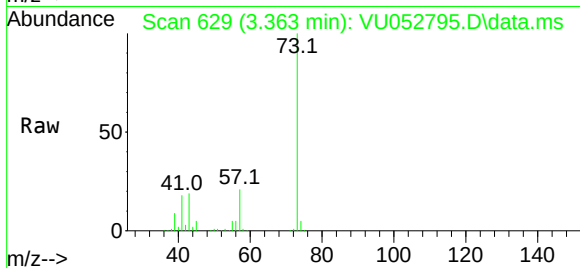
PT-UNRVOA-WSDL

Tgt Ion: 73 Resp: 209629

Ion Ratio Lower Upper

73 100

43 19.1 15.3 22.9



#26

Bromochloromethane

Concen: 1.706 ug/l

RT: 4.970 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

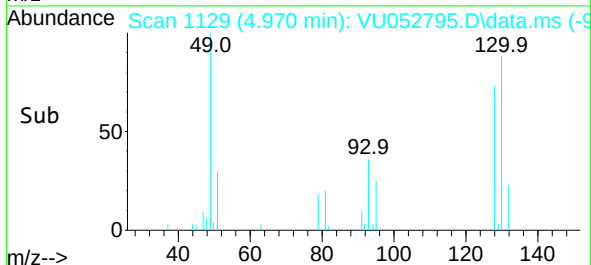
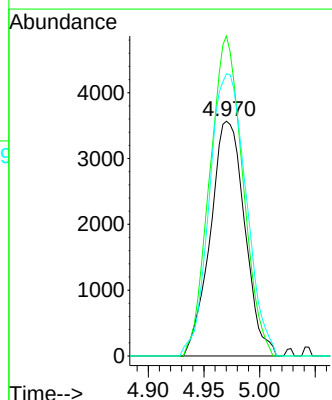
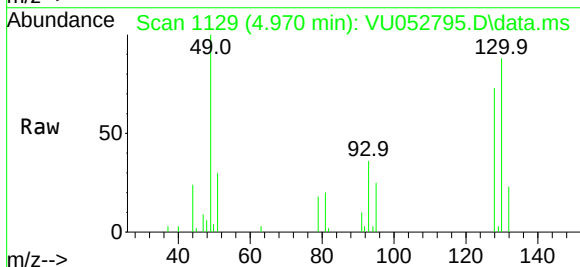
Tgt Ion:128 Resp: 7665

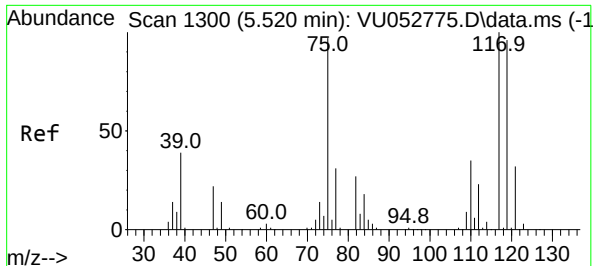
Ion Ratio Lower Upper

128 100

49 130.9 0.0 265.0

130 128.3 100.7 151.1





#29

1,1-Dichloropropene

Concen: 3.253 ug/l

RT: 5.520 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

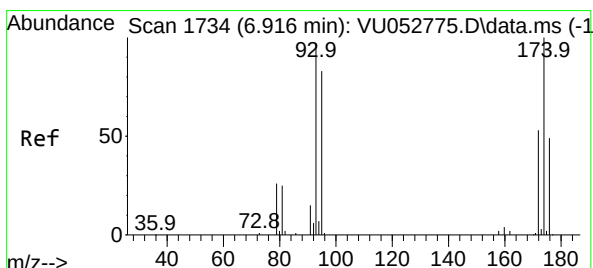
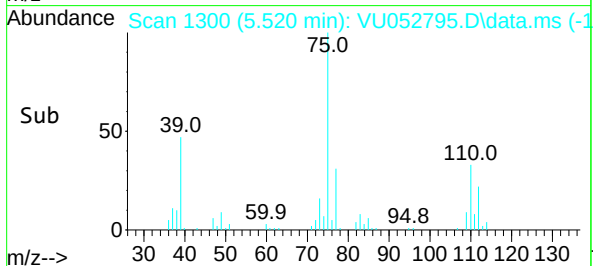
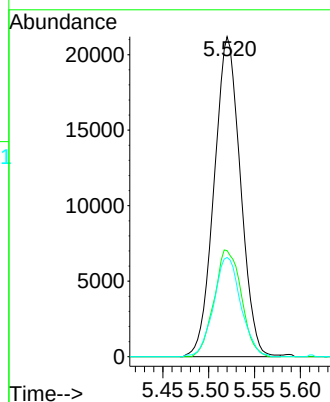
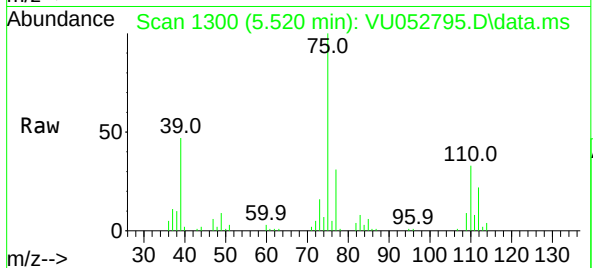
Tgt Ion: 75 Resp: 42221

Ion Ratio Lower Upper

75 100

110 34.5 17.4 52.2

77 32.1 24.8 37.2



#43

Dibromomethane

Concen: 1.612 ug/l

RT: 6.915 min Scan# 1734

Delta R.T. -0.000 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

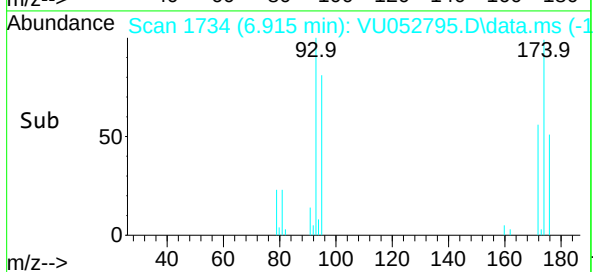
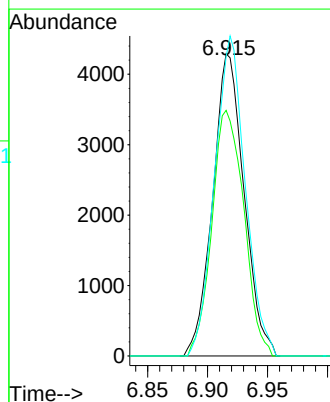
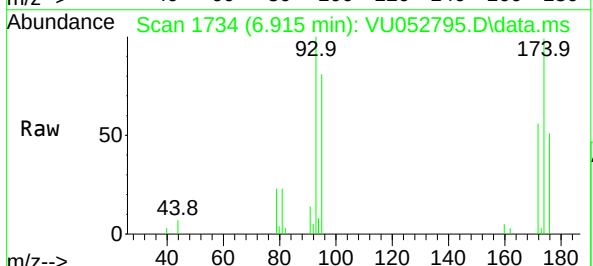
Tgt Ion: 93 Resp: 7797

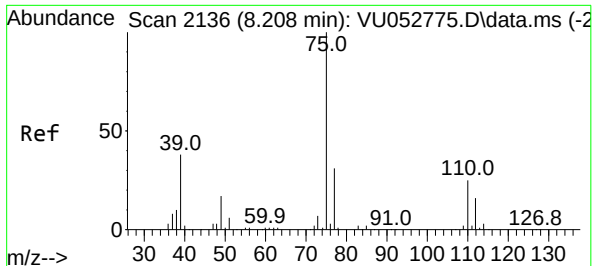
Ion Ratio Lower Upper

93 100

95 82.8 67.0 100.6

174 103.8 82.2 123.4





#50

t-1,3-Dichloropropene

Concen: 2.123 ug/l

RT: 8.208 min Scan# 2136

Delta R.T. -0.000 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

Instrument :

MSVOA_U

ClientSampleId :

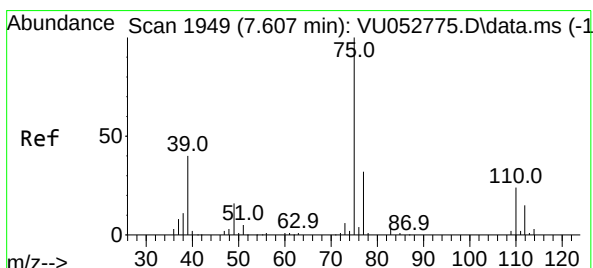
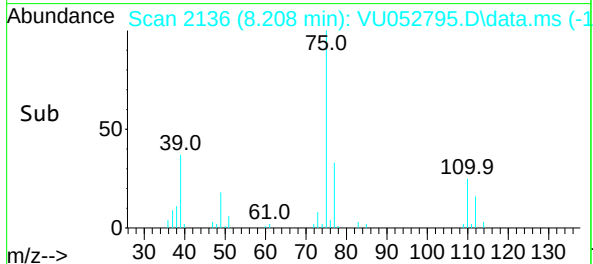
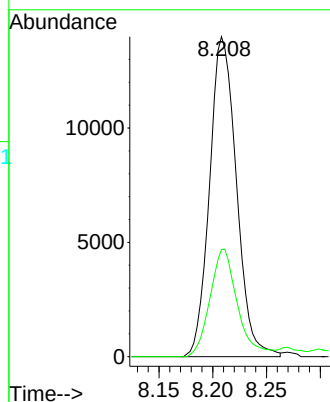
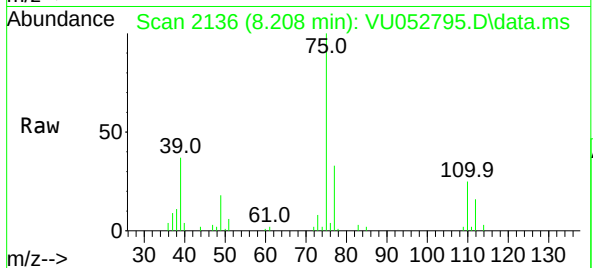
PT-UNRVOA-WSDL

Tgt Ion: 75 Resp: 24297

Ion Ratio Lower Upper

75 100

77 33.5 24.4 36.6



#51

cis-1,3-Dichloropropene

Concen: 1.930 ug/l

RT: 7.607 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

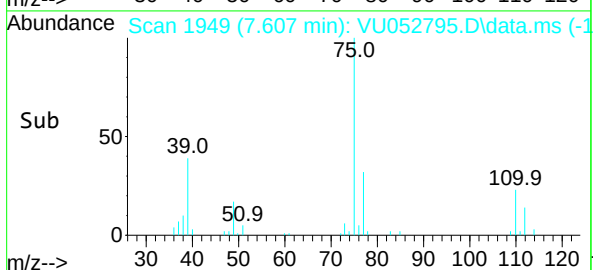
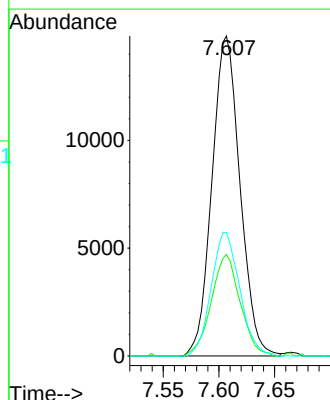
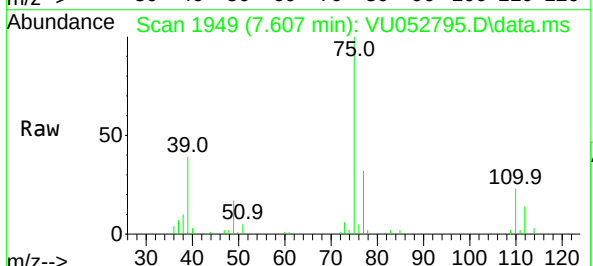
Tgt Ion: 75 Resp: 25976

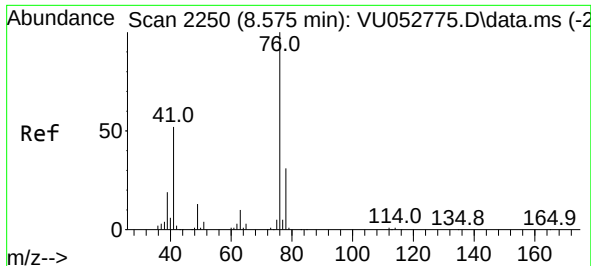
Ion Ratio Lower Upper

75 100

77 31.7 25.5 38.3

39 38.6 32.3 48.5





#53

1,3-Dichloropropane

Concen: 3.300 ug/l

RT: 8.575 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

Instrument :

MSVOA_U

ClientSampleId :

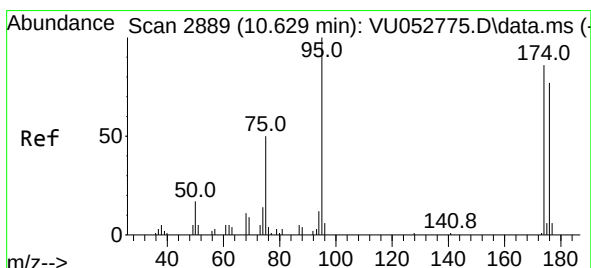
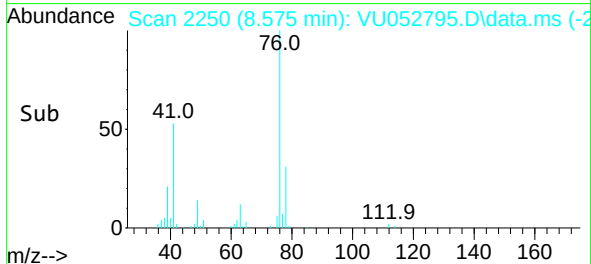
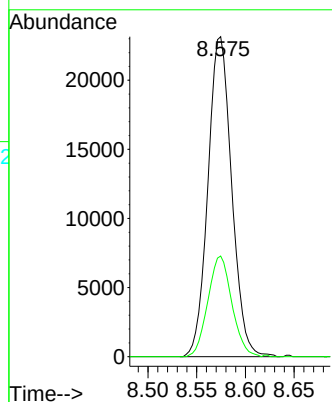
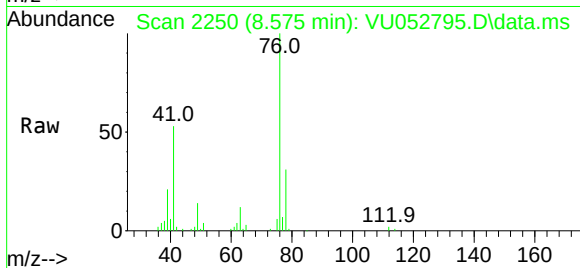
PT-UNRVOA-WSDL

Tgt Ion: 76 Resp: 39231

Ion Ratio Lower Upper

76 100

78 31.7 25.2 37.8



#57

4-Bromofluorobenzene

Concen: 0.895 ug/l

RT: 10.629 min Scan# 2889

Delta R.T. -0.000 min

Lab File: VU052795.D

Acq: 24 Jan 2023 17:13

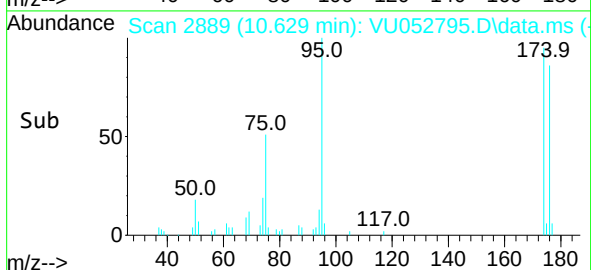
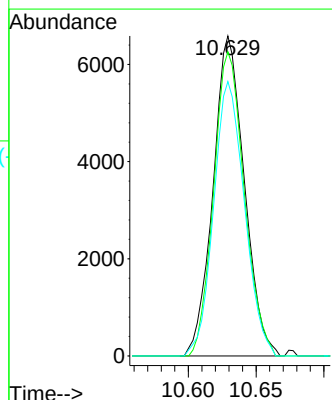
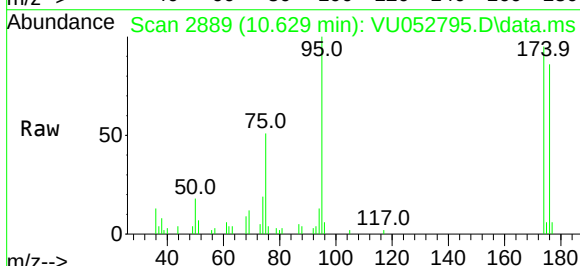
Tgt Ion: 95 Resp: 10556

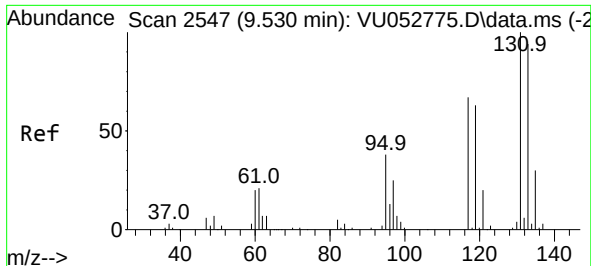
Ion Ratio Lower Upper

95 100

174 93.1 66.9 100.3

176 84.6 61.9 92.9

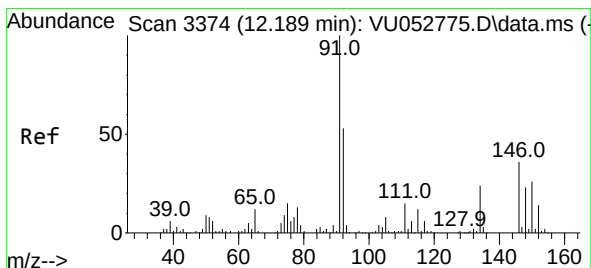
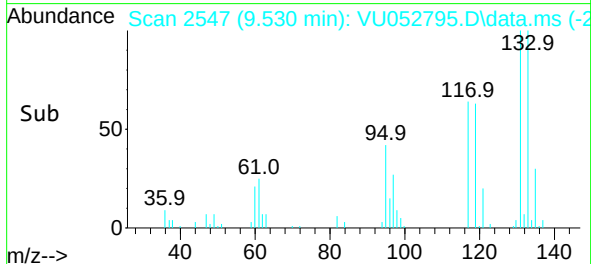
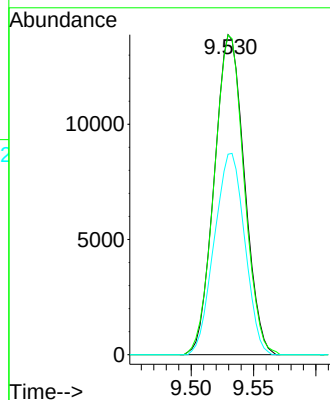
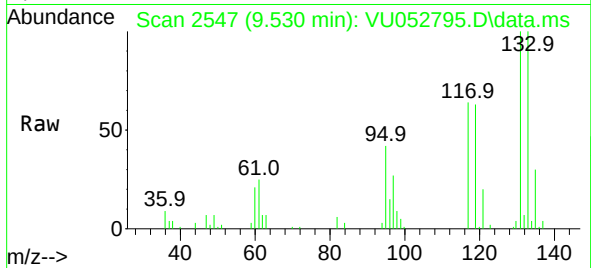




#60
1,1,1,2-Tetrachloroethane
Concen: 2.426 ug/l
RT: 9.530 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

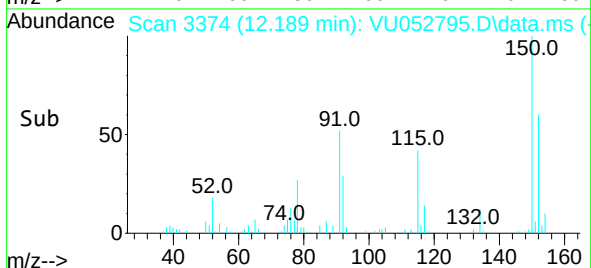
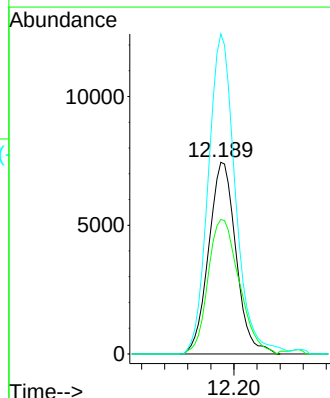
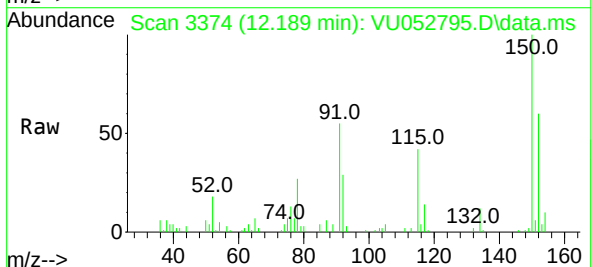
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

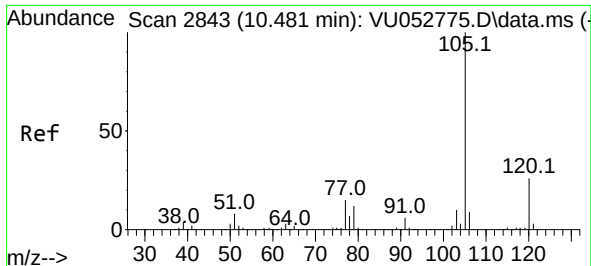
Tgt Ion:131 Resp: 23367
Ion Ratio Lower Upper
131 100
133 98.9 77.2 115.8
119 63.6 50.8 76.2



#68
1,2-Dichlorobenzene-d4
Concen: 1.007 ug/l
RT: 12.189 min Scan# 3374
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion:152 Resp: 12227
Ion Ratio Lower Upper
152 100
115 79.9 0.0 262.6
150 165.7 0.0 638.0

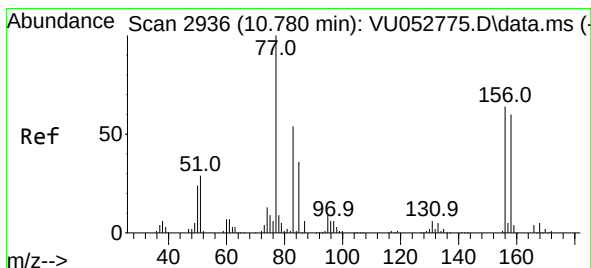
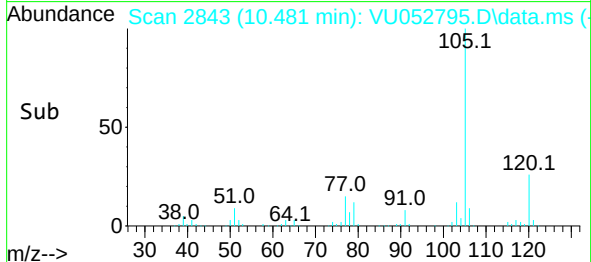
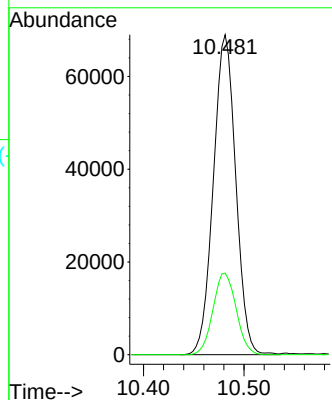
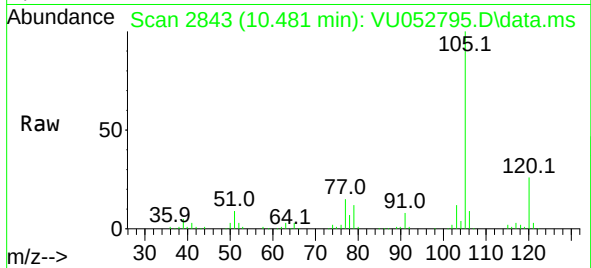




#69
Isopropylbenzene
Concen: 2.709 ug/l
RT: 10.481 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

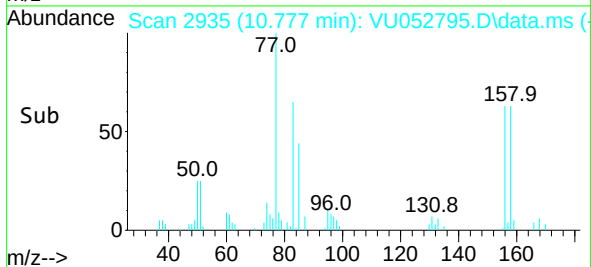
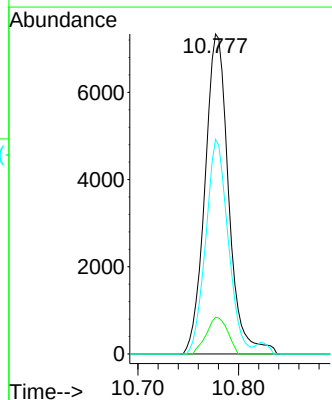
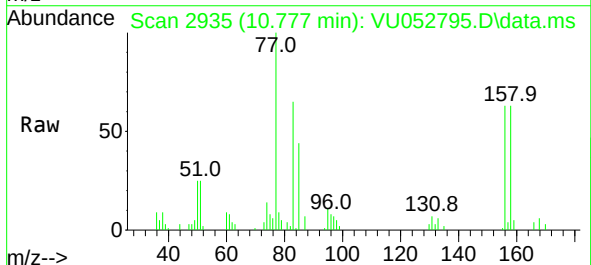
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

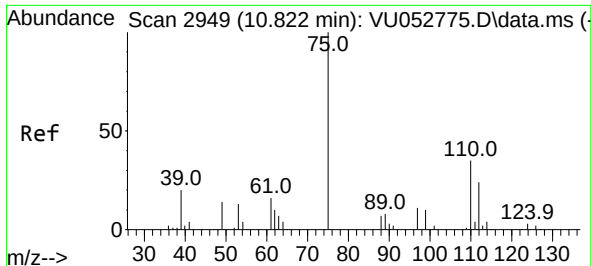
Tgt Ion:105 Resp: 106879
Ion Ratio Lower Upper
105 100
120 26.4 13.3 39.9



#70
1,1,2,2-Tetrachloroethane
Concen: 1.400 ug/l
RT: 10.777 min Scan# 2935
Delta R.T. -0.003 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion: 83 Resp: 11998
Ion Ratio Lower Upper
83 100
131 10.3 8.6 13.0
85 63.4 52.6 78.8

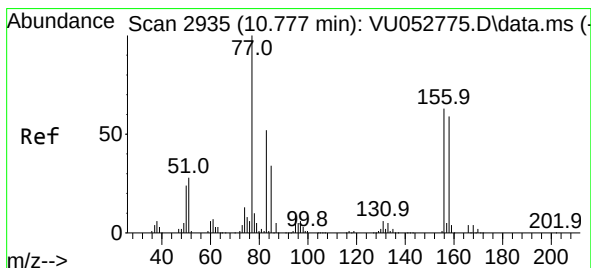
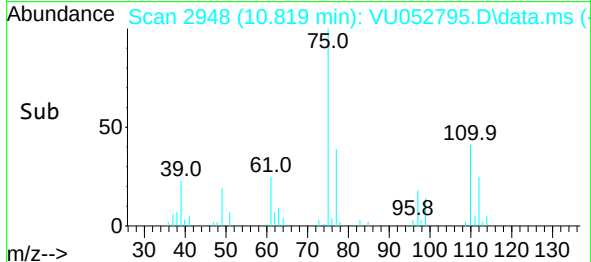
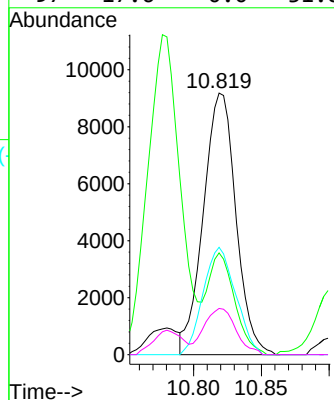
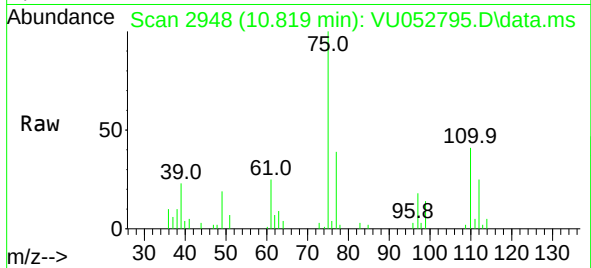




#71
1,2,3-Trichloropropane
Concen: 2.066 ug/l
RT: 10.819 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

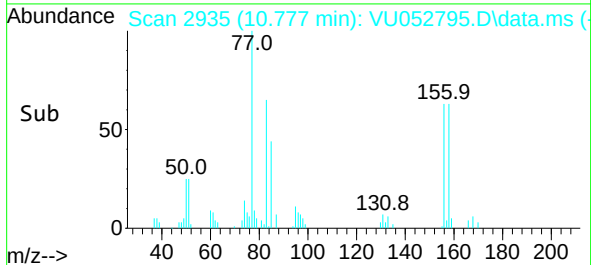
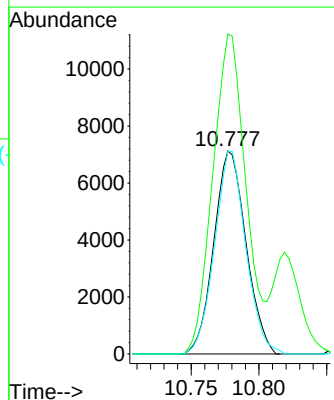
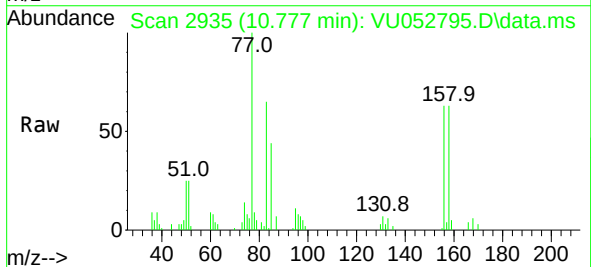
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

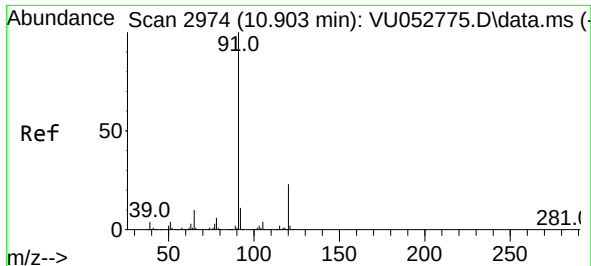
Tgt Ion: 75	Resp: 15329
Ion Ratio	Lower Upper
75 100	
77 31.5	0.0 86.0
110 41.0	0.0 63.8
97 17.6	0.0 31.8



#72
Bromobenzene
Concen: 1.172 ug/l
RT: 10.777 min Scan# 2935
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion: 156	Resp: 11751
Ion Ratio	Lower Upper
156 100	
77 162.9	0.0 321.2
158 96.7	0.0 192.0

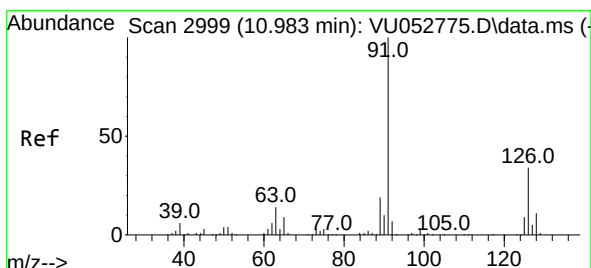
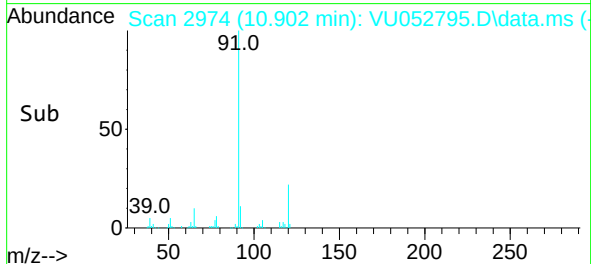
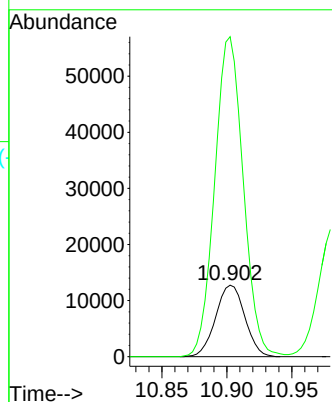
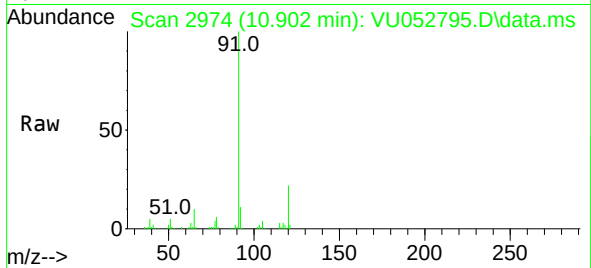




#73
n-propylbenzene
Concen: 1.870 ug/l
RT: 10.902 min Scan# 2974
Delta R.T. -0.001 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

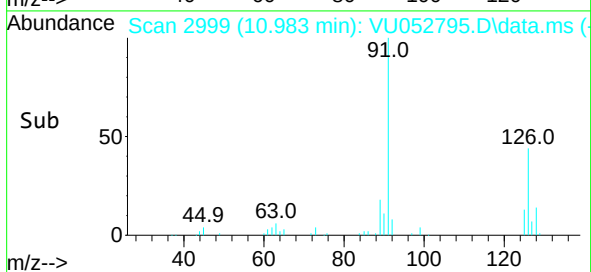
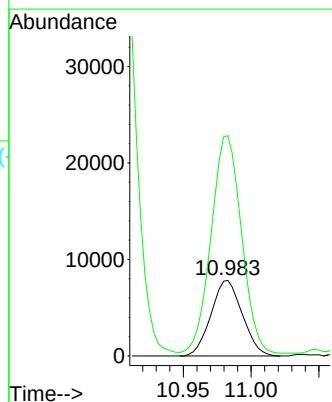
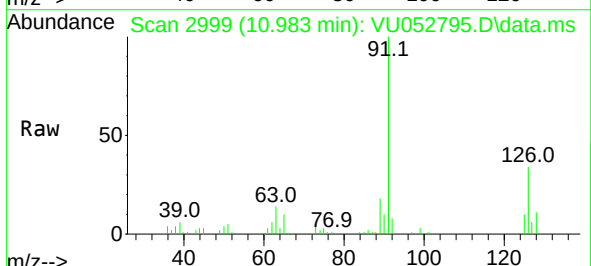
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

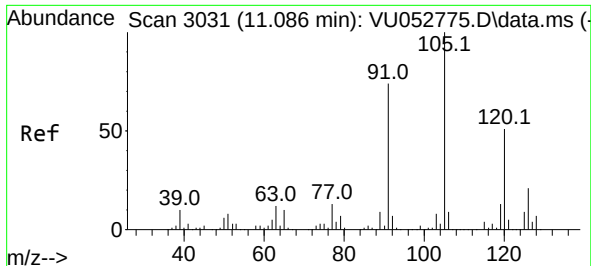
Tgt Ion:120 Resp: 19902
Ion Ratio Lower Upper
120 100
91 438.3 348.0 522.0



#74
2-Chlorotoluene
Concen: 1.259 ug/l
RT: 10.983 min Scan# 2999
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion:126 Resp: 12548
Ion Ratio Lower Upper
126 100
91 281.4 0.0 588.6

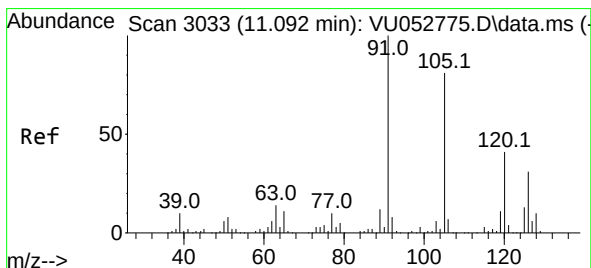
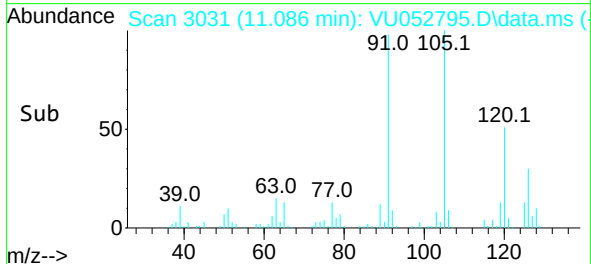
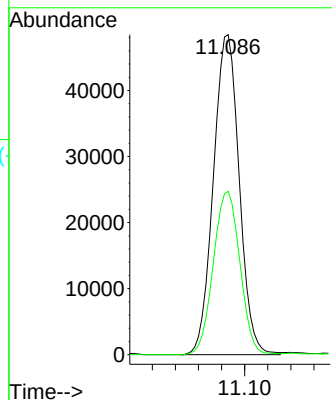
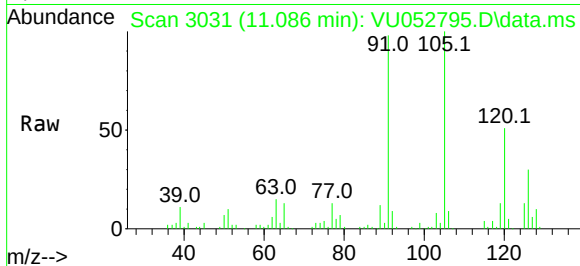




#75
1,3,5-Trimethylbenzene
Concen: 2.198 ug/l
RT: 11.086 min Scan# 3031
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

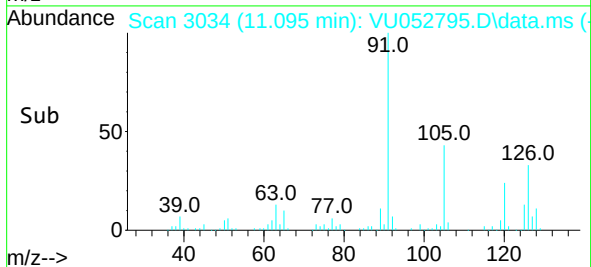
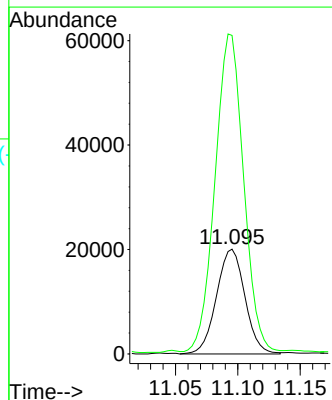
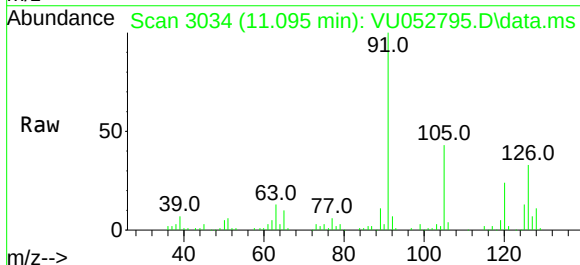
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

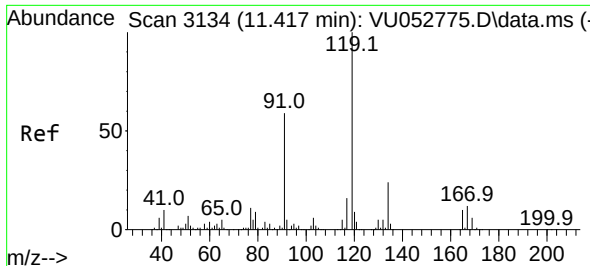
Tgt Ion:105 Resp: 75239
Ion Ratio Lower Upper
105 100
120 52.5 39.9 59.9



#76
4-Chlorotoluene
Concen: 3.117 ug/l
RT: 11.095 min Scan# 3034
Delta R.T. 0.003 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion:126 Resp: 31885
Ion Ratio Lower Upper
126 100
91 302.9 0.0 661.8

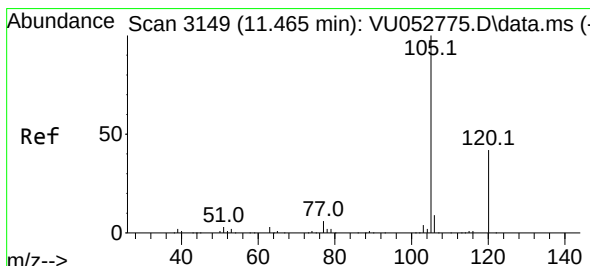
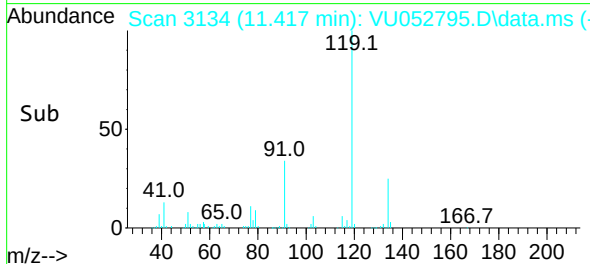
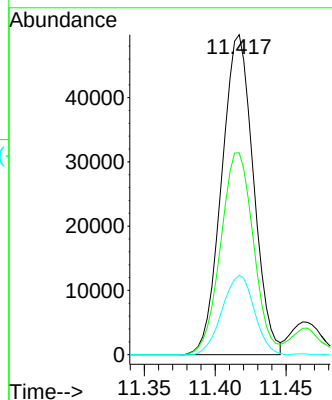
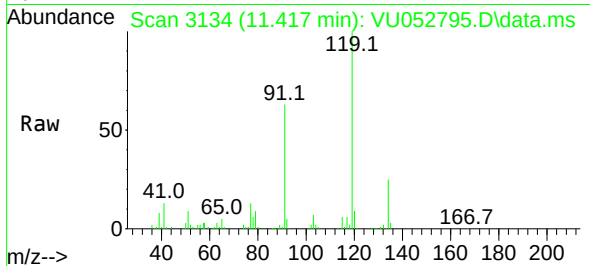




#77
tert-Butylbenzene
Concen: 2.266 ug/l
RT: 11.417 min Scan# 3134
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

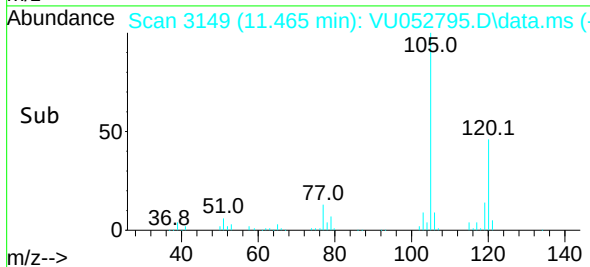
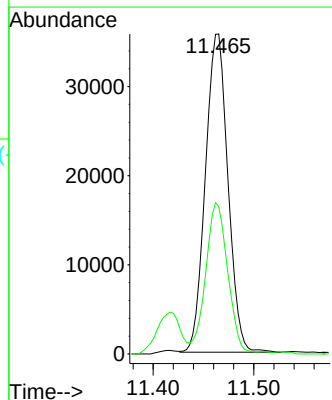
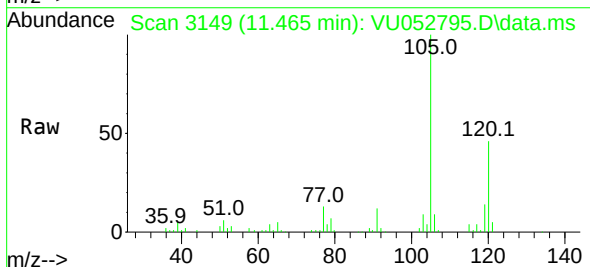
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

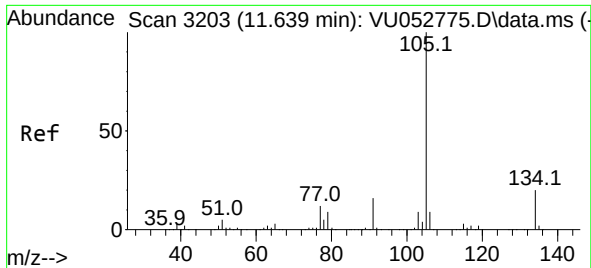
Tgt Ion:119 Resp: 77748
Ion Ratio Lower Upper
119 100
91 65.2 28.4 85.3
134 25.1 18.6 27.8



#78
1,2,4-Trimethylbenzene
Concen: 1.734 ug/l
RT: 11.465 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion:105 Resp: 55586
Ion Ratio Lower Upper
105 100
120 45.3 23.4 70.3

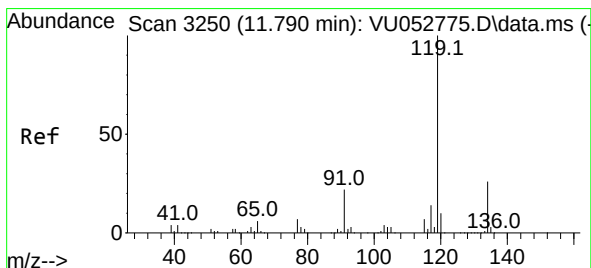
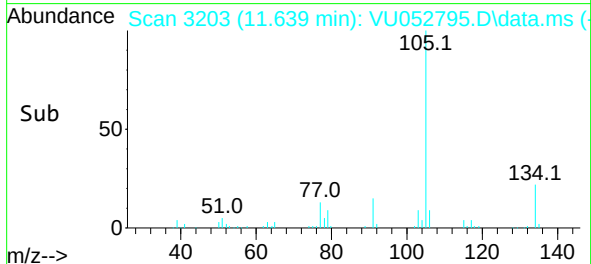
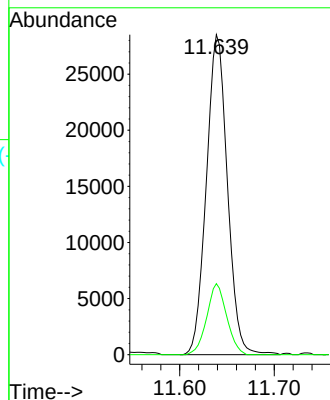
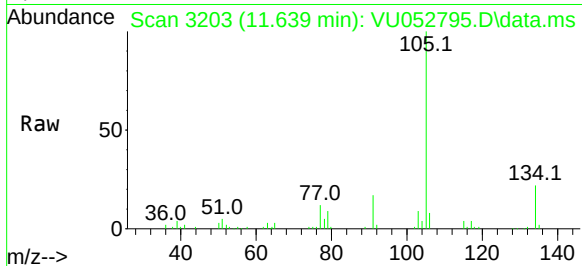




#79
 sec-Butylbenzene
 Concen: 1.222 ug/l
 RT: 11.639 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU052795.D
 Acq: 24 Jan 2023 17:13

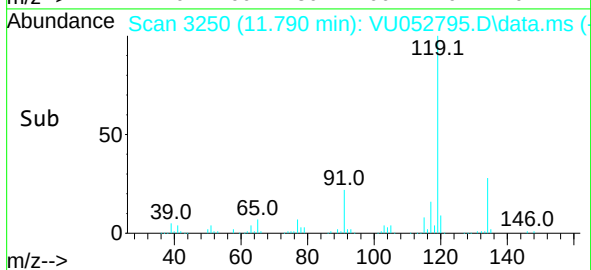
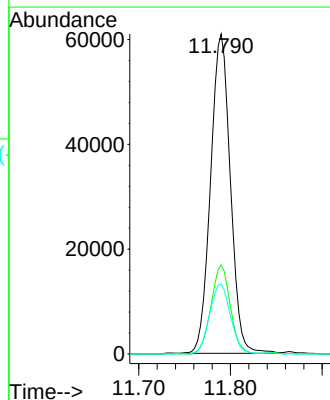
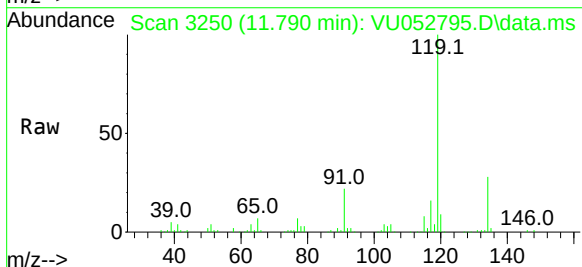
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

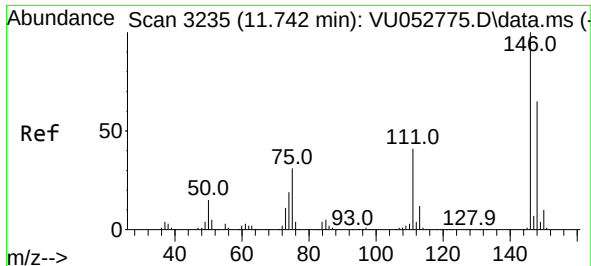
Tgt Ion:105 Resp: 44102
 Ion Ratio Lower Upper
 105 100
 134 21.0 16.5 24.7



#81
 p-Isopropyltoluene
 Concen: 2.364 ug/l
 RT: 11.790 min Scan# 3250
 Delta R.T. -0.000 min
 Lab File: VU052795.D
 Acq: 24 Jan 2023 17:13

Tgt Ion:119 Resp: 91247
 Ion Ratio Lower Upper
 119 100
 134 27.2 20.7 31.1
 91 23.2 17.6 26.4

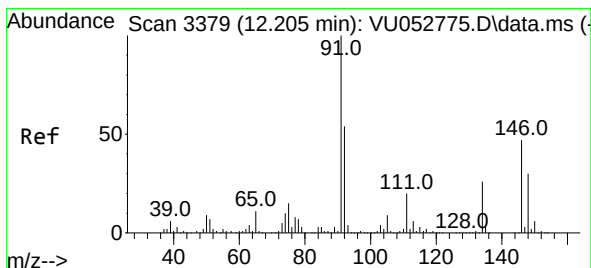
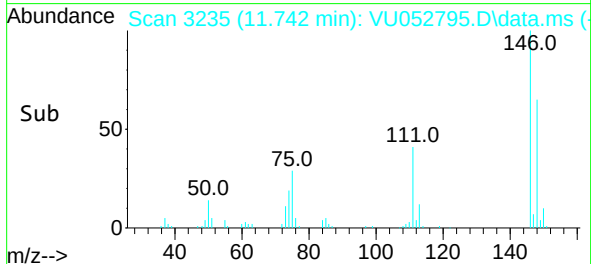
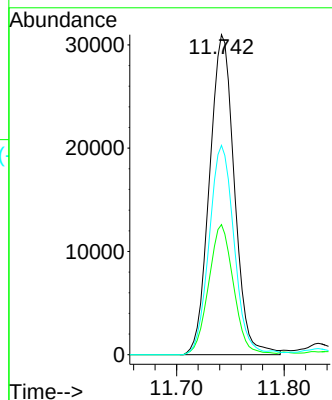
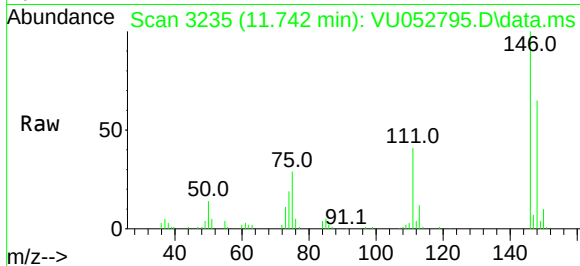




#82
1,3-Dichlorobenzene
Concen: 2.432 ug/l
RT: 11.742 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

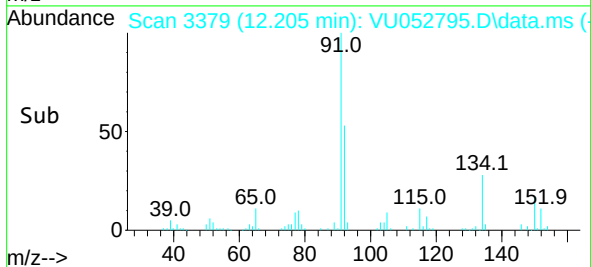
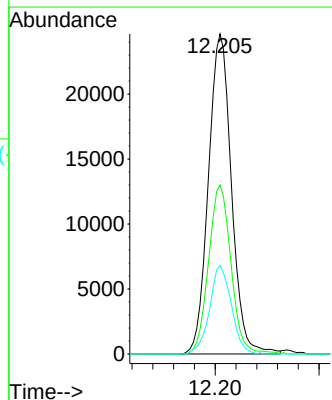
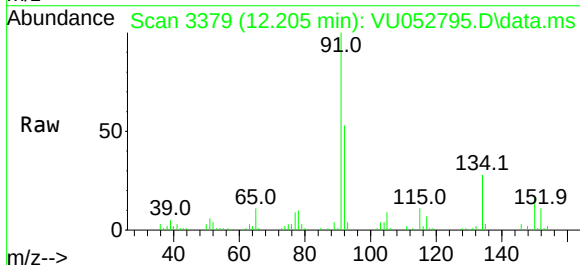
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

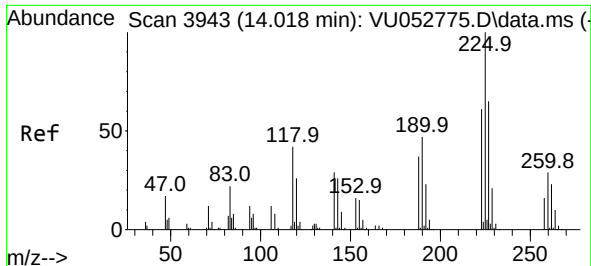
Tgt Ion:146 Resp: 49770
Ion Ratio Lower Upper
146 100
111 40.7 32.6 48.8
148 65.4 51.9 77.9



#84
n-Butylbenzene
Concen: 1.435 ug/l
RT: 12.205 min Scan# 3379
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

Tgt Ion: 91 Resp: 37876
Ion Ratio Lower Upper
91 100
92 51.4 43.4 65.0
134 26.1 21.2 31.8

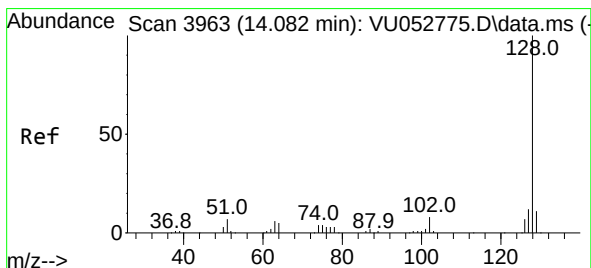
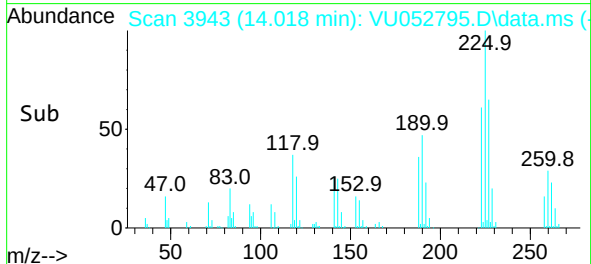
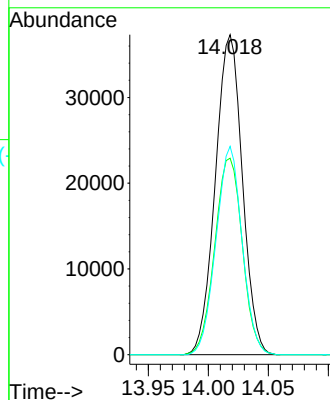
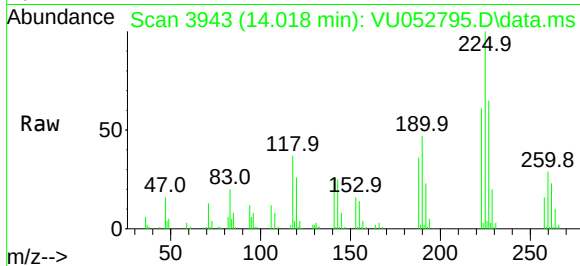




#88
Hexachlorobutadiene
Concen: 7.207 ug/l
RT: 14.018 min Scan# 3943
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

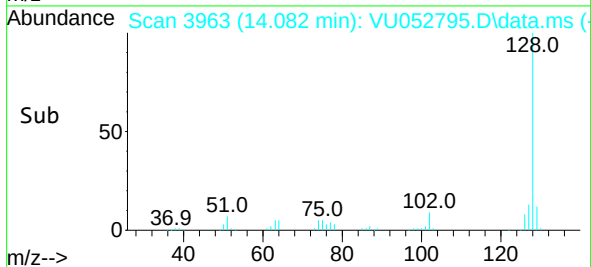
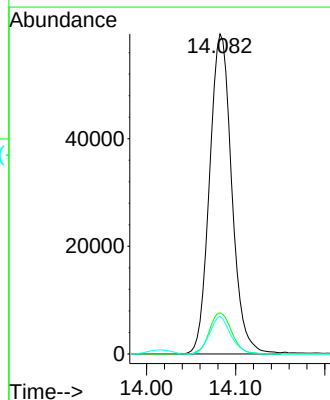
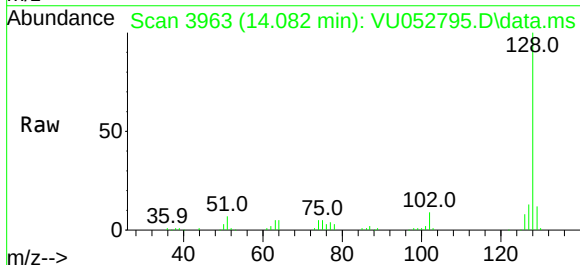
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

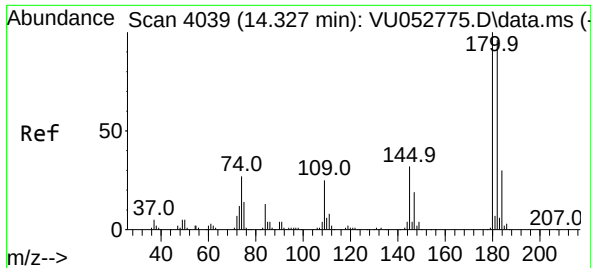
Tgt Ion:225 Resp: 58499
Ion Ratio Lower Upper
225 100
223 62.6 49.8 74.6
227 62.6 51.5 77.3



#89
Naphthalene
Concen: 4.579 ug/l
RT: 14.082 min Scan# 3963
Delta R.T. -0.000 min
Lab File: VU052795.D
Acq: 24 Jan 2023 17:13

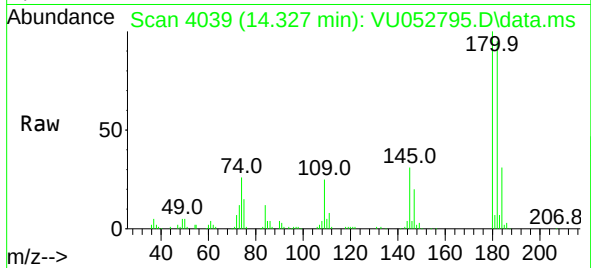
Tgt Ion:128 Resp: 102807
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 11.2 8.6 12.8





#90
 1,2,3-Trichlorobenzene
 Concen: 10.025 ug/l
 RT: 14.327 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VU052795.D
 Acq: 24 Jan 2023 17:13

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL



Tgt Ion:180 Resp: 110208
 Ion Ratio Lower Upper
 180 100
 182 97.0 77.8 116.6
 145 30.6 25.2 37.8

