

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071725\
 Data File : VU063530.D
 Acq On : 17 Jul 2025 17:50
 Operator : MD/SY
 Sample : Q2552-07DL 5X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Quant Time: Jul 18 04:17:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U071625DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Jul 17 03:49:40 2025
 Response via : Initial Calibration

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

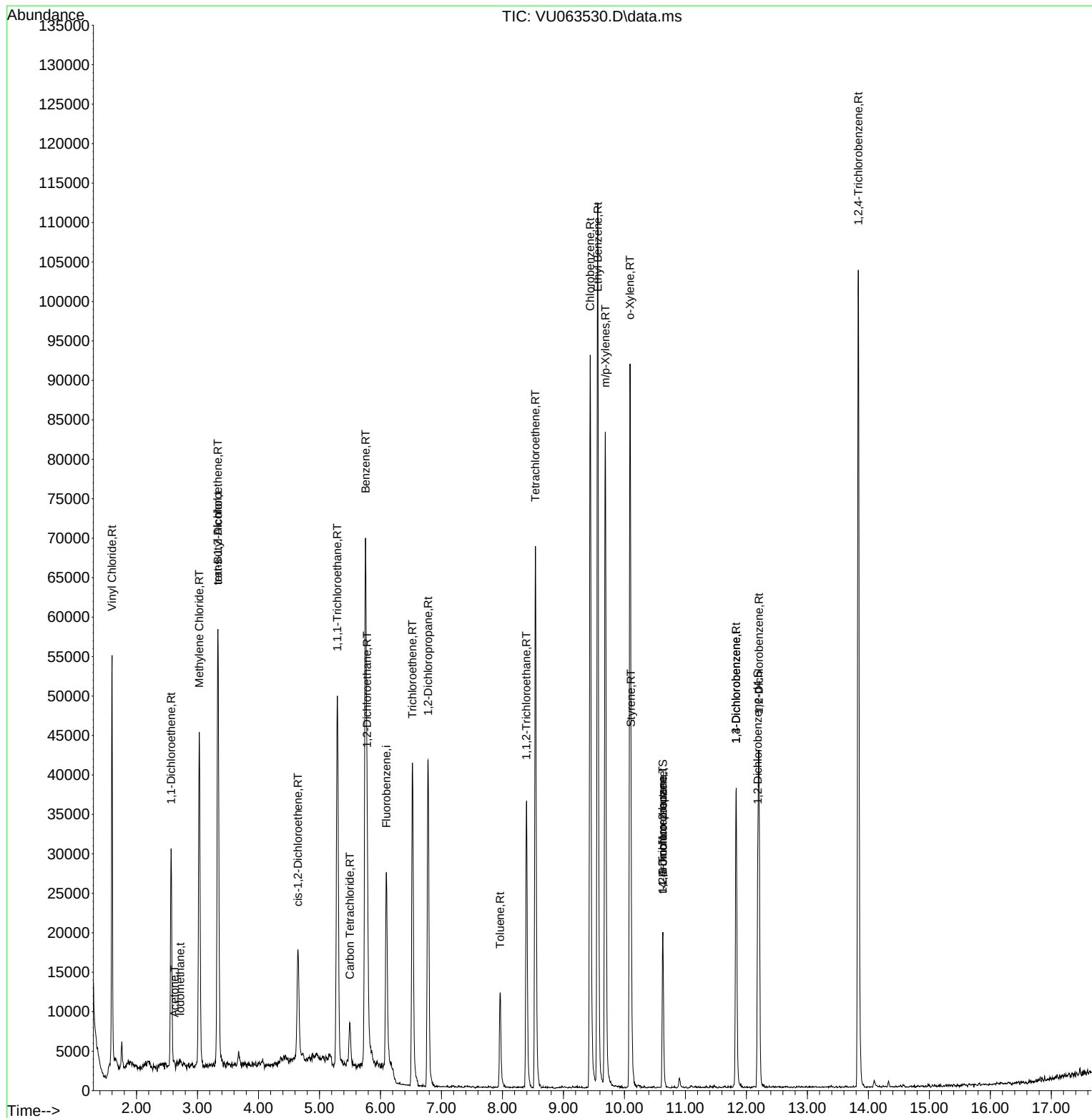
Internal Standards						
1) Fluorobenzene	6.097	96	23809	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	7137	0.792	ug/l	0.00
Spiked Amount 1.000			Recovery	=	79.000%	
68) 1,2-Dichlorobenzene-d4	12.187	152	6334	0.760	ug/l	0.00
Spiked Amount 1.000			Recovery	=	76.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.599	62	32093	3.861	ug/l	98
9) 1,1-Dichloroethene	2.566	96	8737	1.413	ug/l	89
10) Iodomethane	2.714	142	69	0.923	ug/l #	29
13) Acetone	2.621	43	464	0.375	ug/l #	43
15) Methylene Chloride	3.029	84	18507	2.543	ug/l	98
16) trans-1,2-Dichloroethene	3.335	96	22492	3.204	ug/l	97
22) cis-1,2-Dichloroethene	4.650	96	7151	0.939	ug/l	89
24) tert-Butyl Alcohol	3.335	59	1103	1.940	ug/l #	72
28) 1,1,1-Trichloroethane	5.293	97	33397	2.964	ug/l	97
30) Carbon Tetrachloride	5.499	117	3341	0.368	ug/l	92
35) Benzene	5.756	78	65604	2.339	ug/l	99
36) 1,2-Dichloroethane	5.782	62	18116	2.079	ug/l	100
37) Trichloroethene	6.524	130	14500	2.026	ug/l	94
38) 1,2-Dichloropropane	6.782	63	16353	2.491	ug/l	99
46) t-1,4-Dichloro-2-butene	10.627	75	3927	2.985	ug/l #	32
49) Toluene	7.962	92	6024	0.393	ug/l	97
52) 1,1,2-Trichloroethane	8.393	97	11353	2.480	ug/l	97
58) Tetrachloroethene	8.540	164	14610	2.231	ug/l	96
59) Chlorobenzene	9.441	112	52409	2.980	ug/l	97
63) Ethyl Benzene	9.563	91	83487	2.758	ug/l	99
64) m/p-Xylenes	9.688	106	26216	2.228	ug/l	99
65) o-Xylene	10.093	106	24341	2.153	ug/l	95
66) Styrene	10.110	104	8011	0.445	ug/l #	58
71) 1,2,3-Trichloropropane	10.627	75	3927	0.868	ug/l #	45
82) 1,3-Dichlorobenzene	11.833	146	15698	1.112	ug/l	99
83) 1,4-Dichlorobenzene	11.833	146	15698	1.111	ug/l	97
85) 1,2-Dichlorobenzene	12.206	146	14317	1.080	ug/l	97
87) 1,2,4-Trichlorobenzene	13.836	180	32216	3.907	ug/l	100

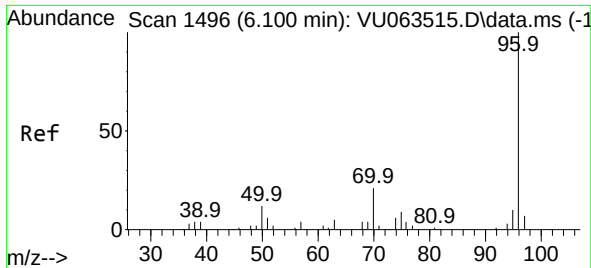
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VSTDC010EC

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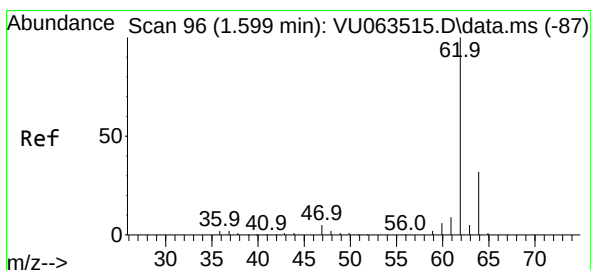
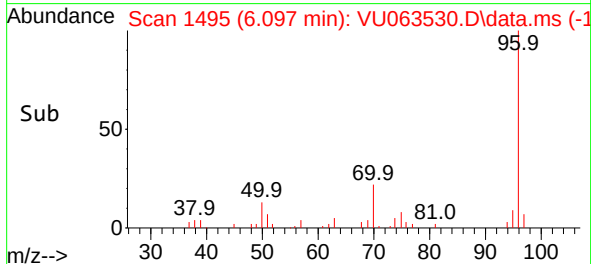
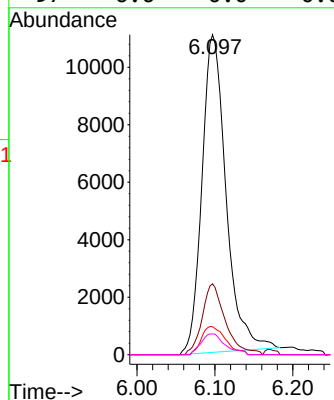
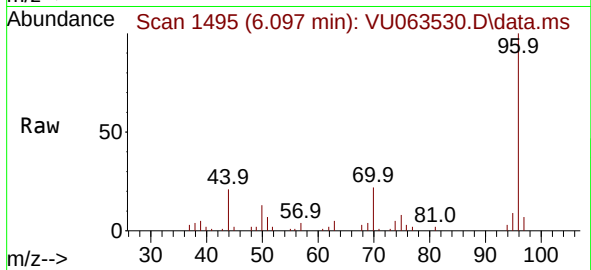




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 1496
Delta R.T. -0.003 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

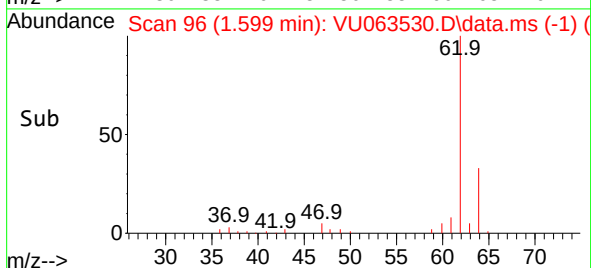
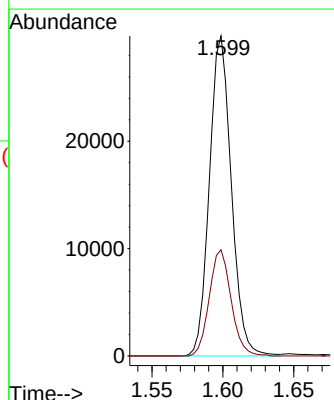
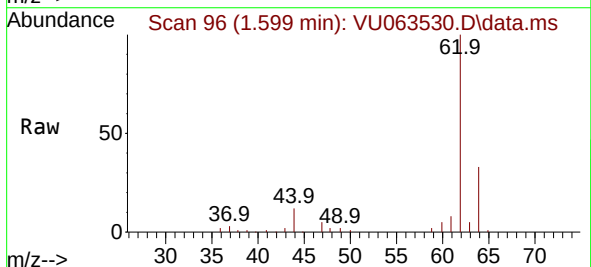
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

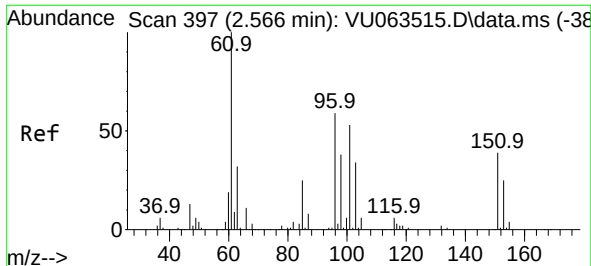
Tgt Ion:	96	Resp:	23809
Ion	Ratio	Lower	Upper
96	100		
70	21.3	15.0	22.4
95	8.9	7.4	11.0
97	6.6	0.0	0.0



#4
Vinyl Chloride
Concen: 3.861 ug/l
RT: 1.599 min Scan# 96
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion:	62	Resp:	32093
Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.7	38.5

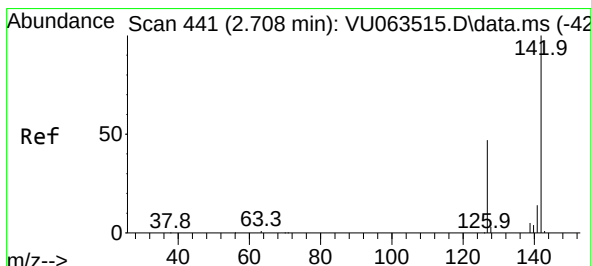
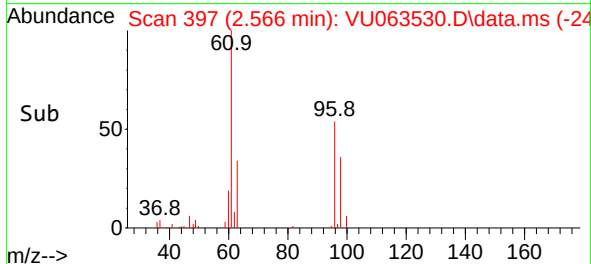
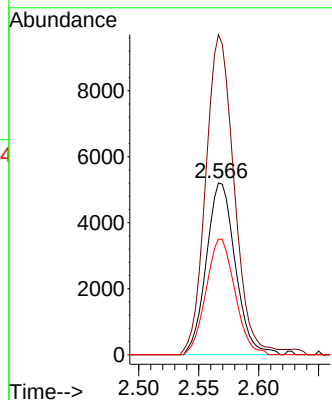
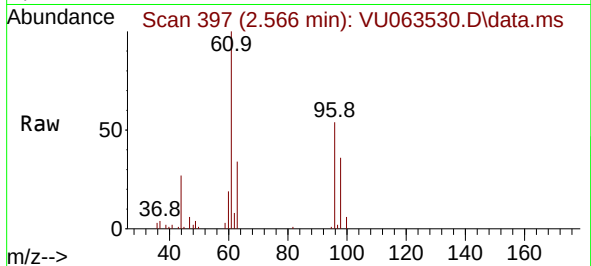




#9
1,1-Dichloroethene
Concen: 1.413 ug/l
RT: 2.566 min Scan# 397
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

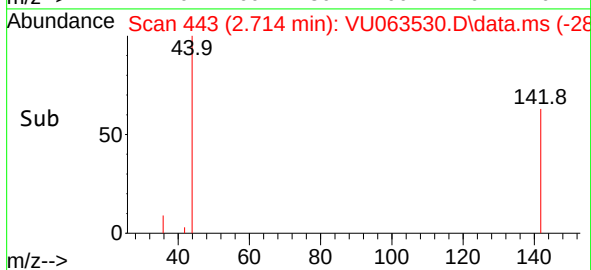
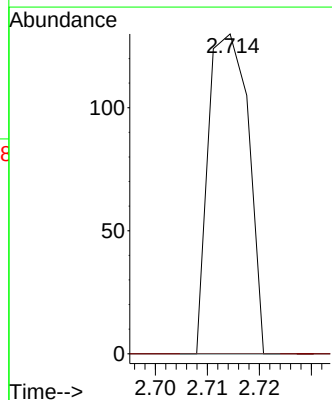
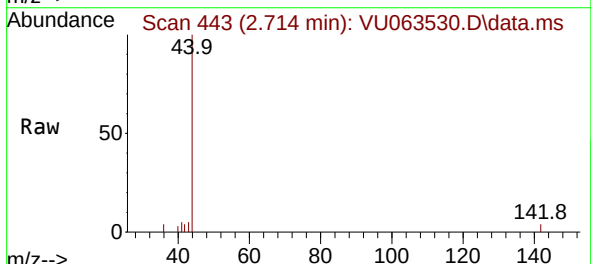
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

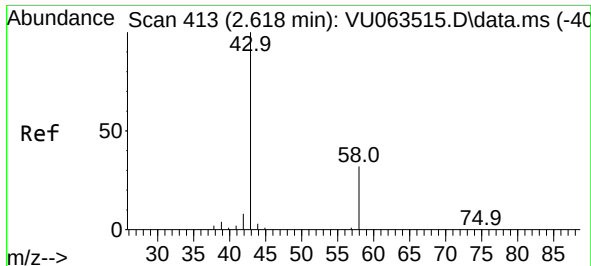
Tgt Ion: 96 Resp: 8737
Ion Ratio Lower Upper
96 100
61 186.4 0.0 504.3
98 67.4 0.0 126.8



#10
Iodomethane
Concen: 0.923 ug/l
RT: 2.714 min Scan# 443
Delta R.T. 0.006 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion: 142 Resp: 69
Ion Ratio Lower Upper
142 100
127 0.0 37.9 56.9#





#13

Acetone

Concen: 0.375 ug/l

RT: 2.621 min Scan# 413

Delta R.T. 0.003 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Instrument :

MSVOA_U

ClientSampleId :

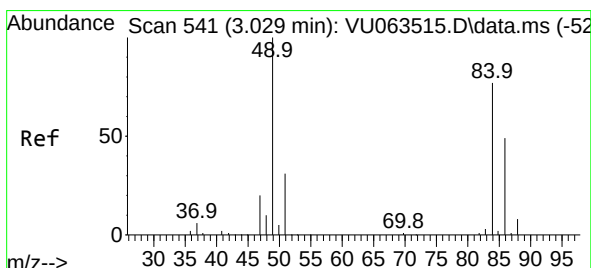
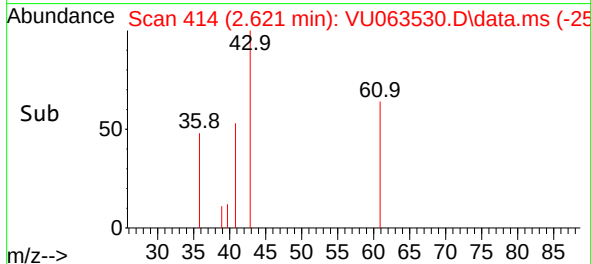
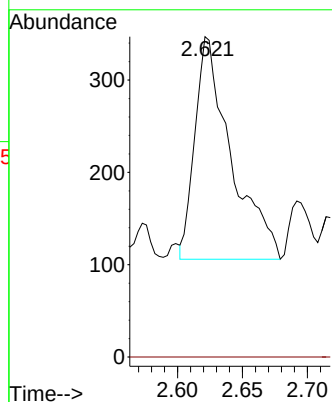
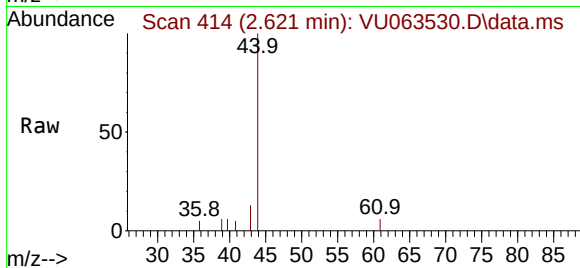
VSTDCCC010EC

Tgt Ion: 43 Resp: 464

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



#15

Methylene Chloride

Concen: 2.543 ug/l

RT: 3.029 min Scan# 541

Delta R.T. -0.000 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Tgt Ion: 84 Resp: 18507

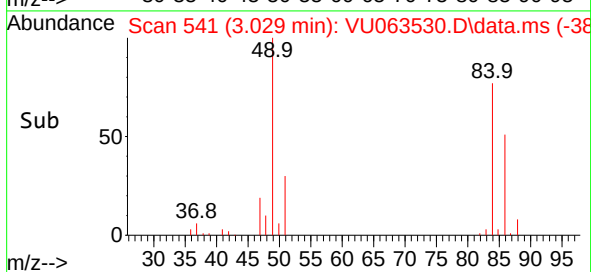
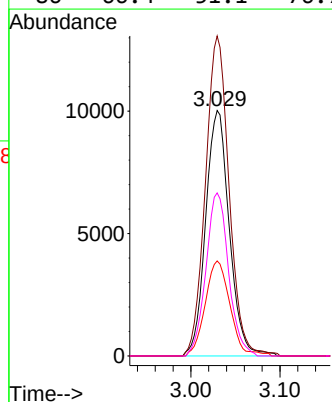
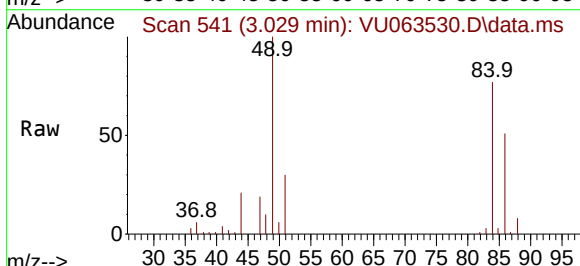
Ion Ratio Lower Upper

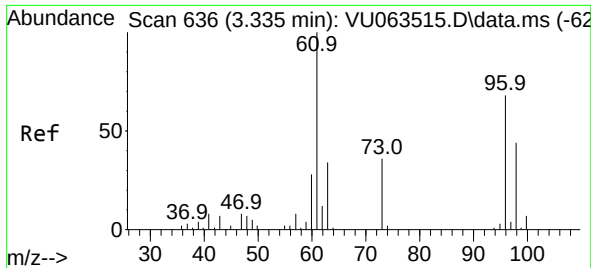
84 100

49 130.3 103.8 155.8

51 38.7 0.0 80.4

86 66.4 51.1 76.7

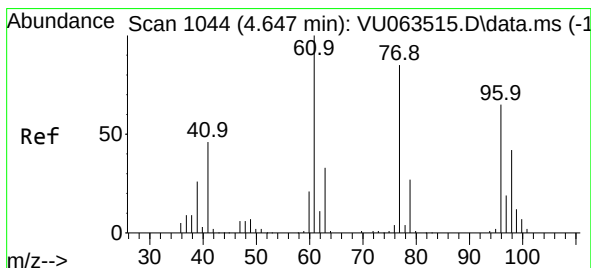
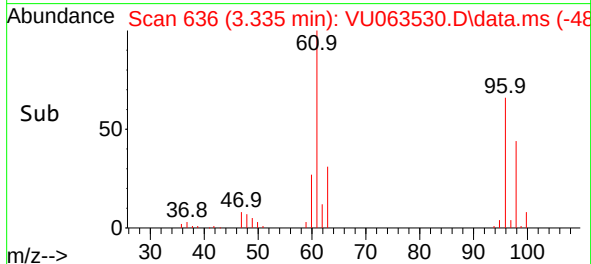
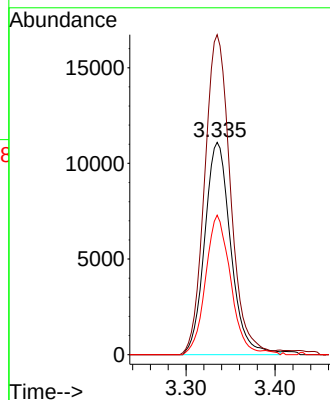
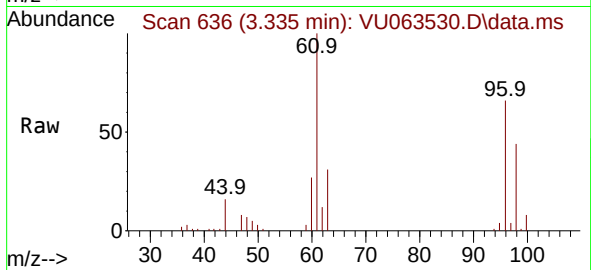




#16
trans-1,2-Dichloroethene
Concen: 3.204 ug/l
RT: 3.335 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

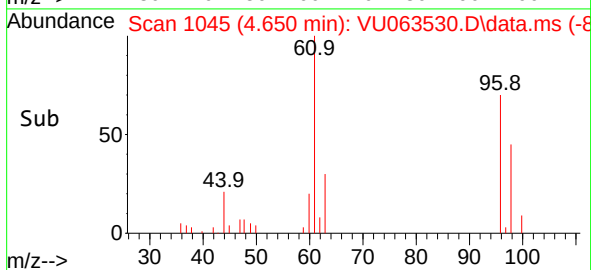
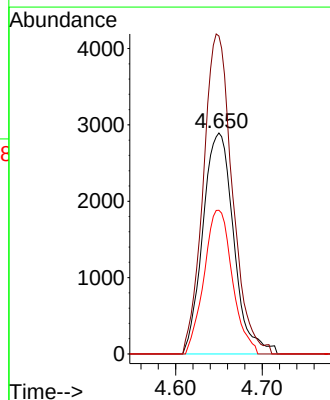
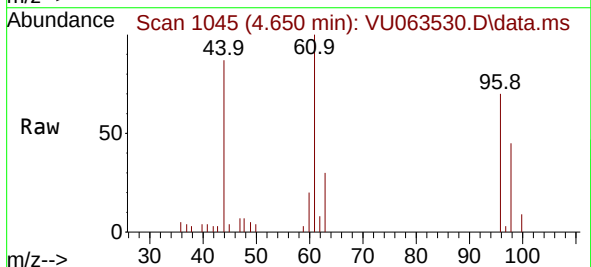
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

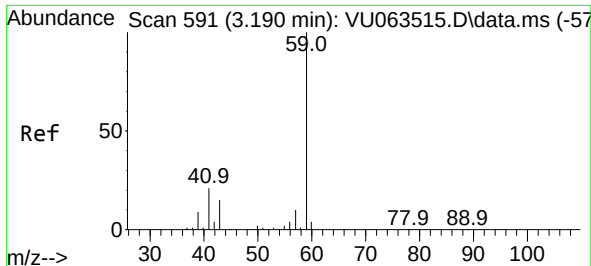
Tgt Ion: 96 Resp: 22492
Ion Ratio Lower Upper
96 100
61 150.7 117.2 175.8
98 65.7 51.4 77.2



#22
cis-1,2-Dichloroethene
Concen: 0.939 ug/l
RT: 4.650 min Scan# 1045
Delta R.T. 0.003 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion: 96 Resp: 7151
Ion Ratio Lower Upper
96 100
61 136.4 0.0 384.7
98 59.8 32.1 96.3

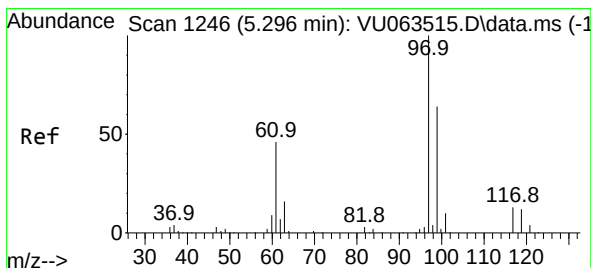
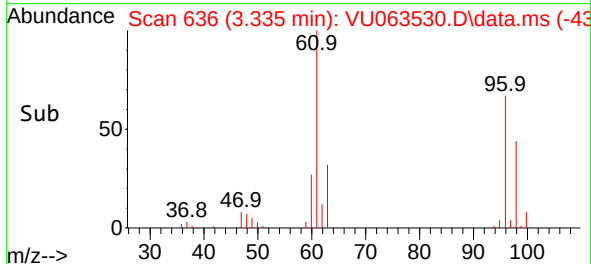
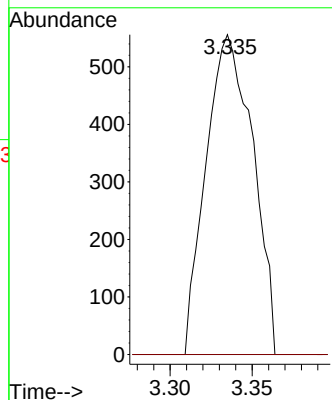
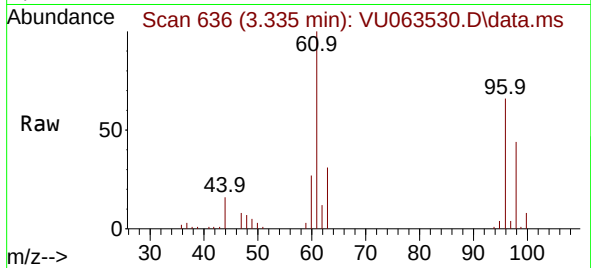




#24
tert-Butyl Alcohol
Concen: 1.940 ug/l
RT: 3.335 min Scan# 61
Delta R.T. 0.145 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

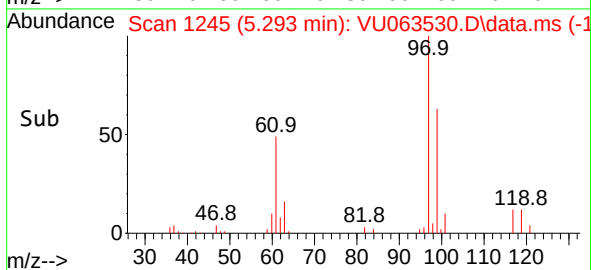
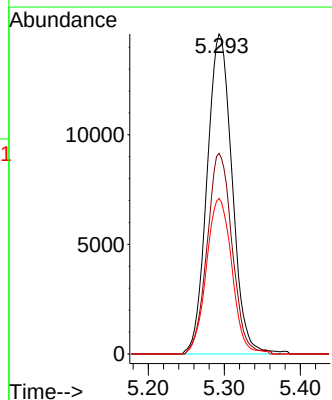
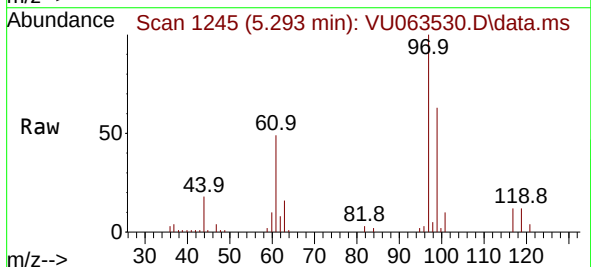
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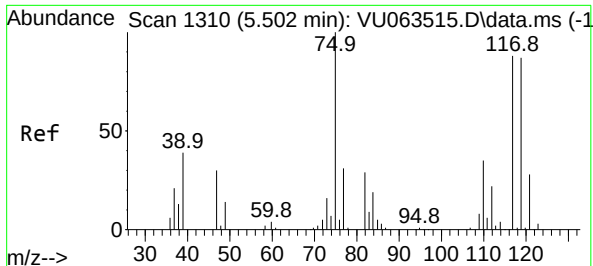
Tgt Ion: 59 Resp: 1103
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#28
1,1,1-Trichloroethane
Concen: 2.964 ug/l
RT: 5.293 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion: 97 Resp: 33397
Ion Ratio Lower Upper
97 100
99 62.4 31.8 95.3
61 49.4 23.3 69.9

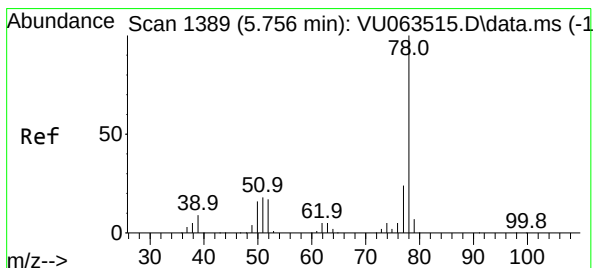
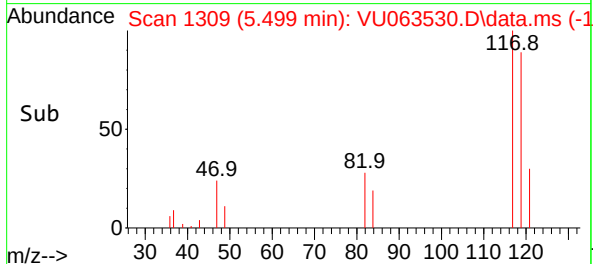
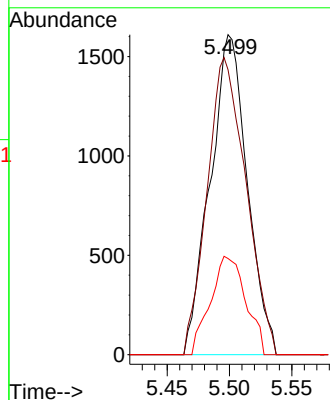
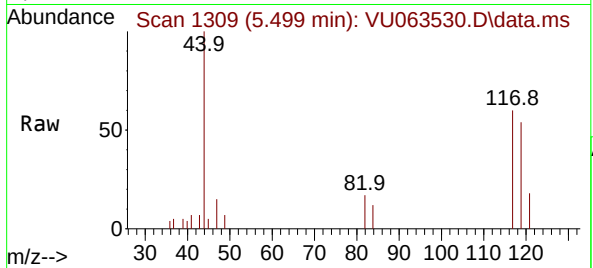




#30
Carbon Tetrachloride
Concen: 0.368 ug/l
RT: 5.499 min Scan# 117
Delta R.T. -0.003 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

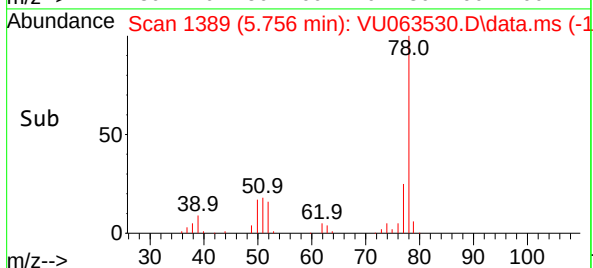
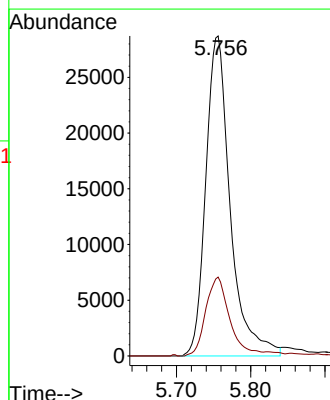
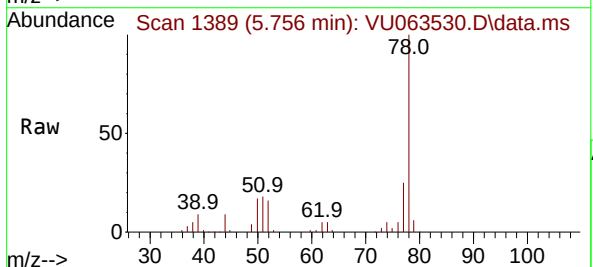
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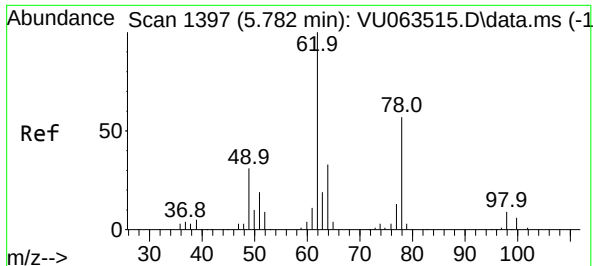
Tgt Ion:117 Resp: 3341
Ion Ratio Lower Upper
117 100
119 89.1 79.2 118.8
121 30.1 25.5 38.3



#35
Benzene
Concen: 2.339 ug/l
RT: 5.756 min Scan# 1389
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion: 78 Resp: 65604
Ion Ratio Lower Upper
78 100
77 24.7 19.4 29.2





#36

1,2-Dichloroethane

Concen: 2.079 ug/l

RT: 5.782 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Instrument :

MSVOA_U

ClientSampleId :

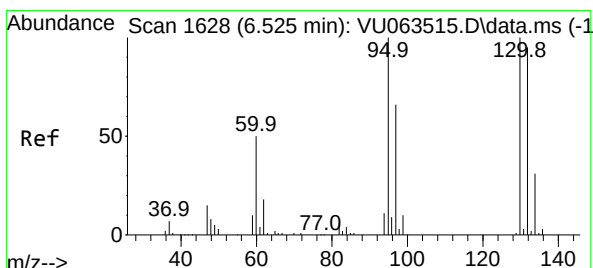
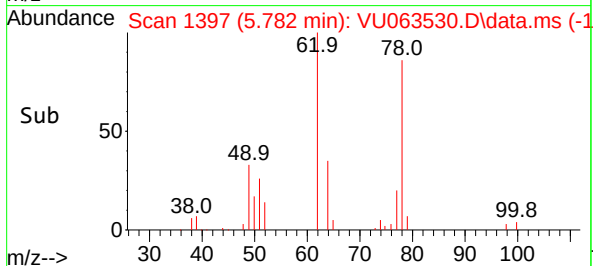
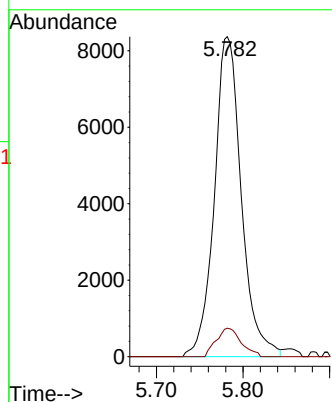
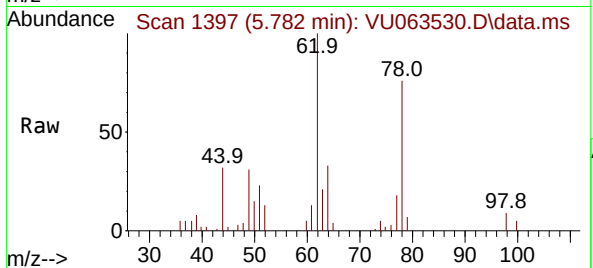
VSTDCCC010EC

Tgt Ion: 62 Resp: 18116

Ion Ratio Lower Upper

62 100

98 8.2 6.4 9.6



#37

Trichloroethene

Concen: 2.026 ug/l

RT: 6.524 min Scan# 1628

Delta R.T. -0.000 min

Lab File: VU063530.D

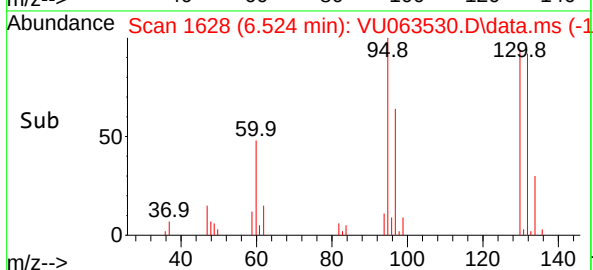
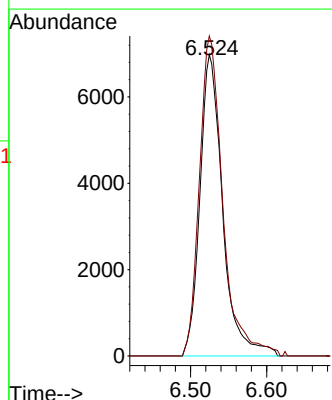
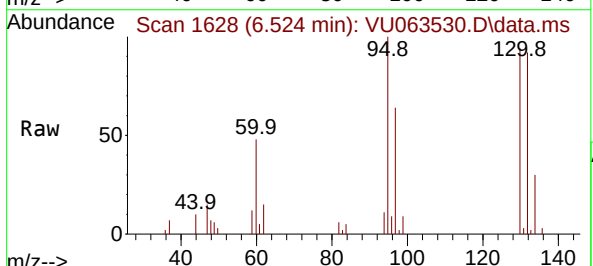
Acq: 17 Jul 2025 17:50

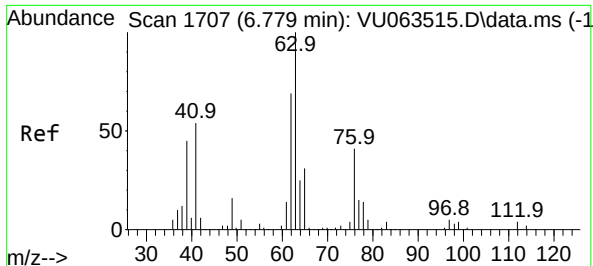
Tgt Ion:130 Resp: 14500

Ion Ratio Lower Upper

130 100

95 106.2 80.3 120.5





#38

1,2-Dichloropropane

Concen: 2.491 ug/l

RT: 6.782 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Instrument :

MSVOA_U

ClientSampleId :

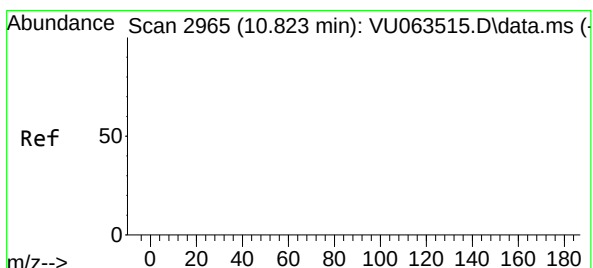
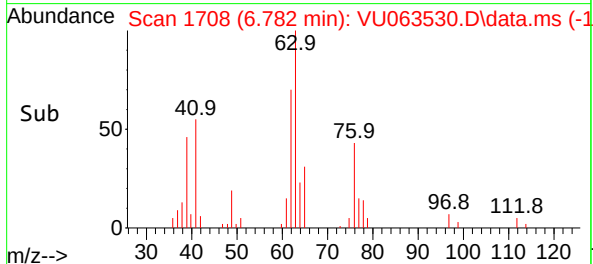
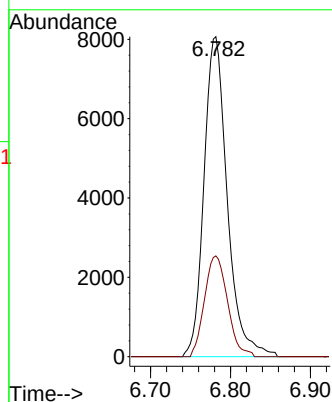
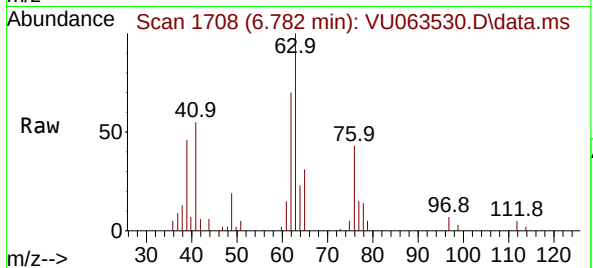
VSTDCCC010EC

Tgt Ion: 63 Resp: 16353

Ion Ratio Lower Upper

63 100

65 31.5 24.6 36.8



#46

t-1,4-Dichloro-2-butene

Concen: 2.985 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. -0.196 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Tgt Ion: 75 Resp: 3927

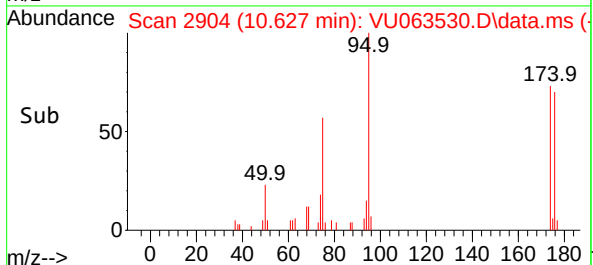
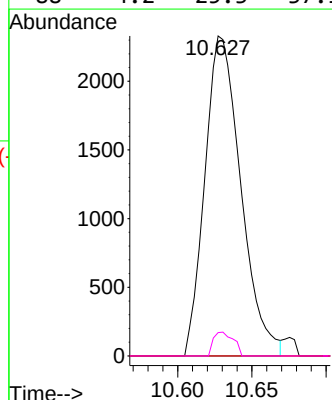
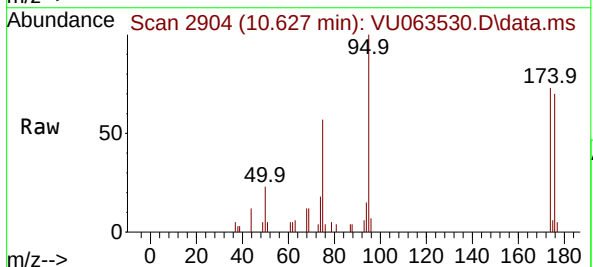
Ion Ratio Lower Upper

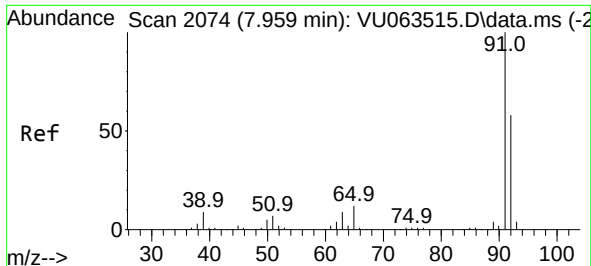
75 100

53 0.0 48.4 72.6#

89 0.0 30.6 45.8#

88 4.2 25.3 37.9#





#49

Toluene

Concen: 0.393 ug/l

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Instrument :

MSVOA_U

ClientSampleId :

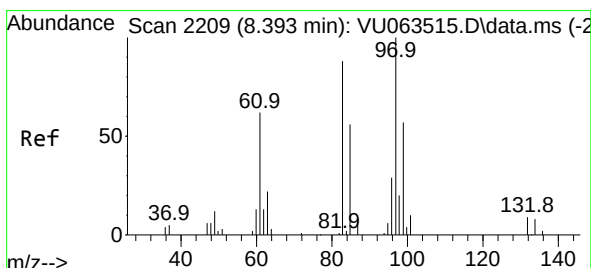
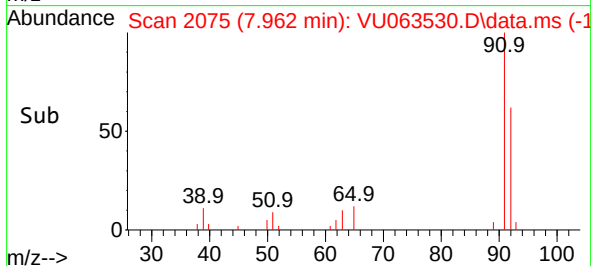
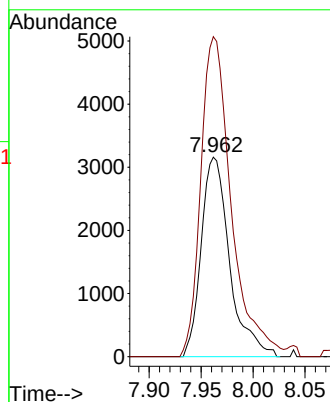
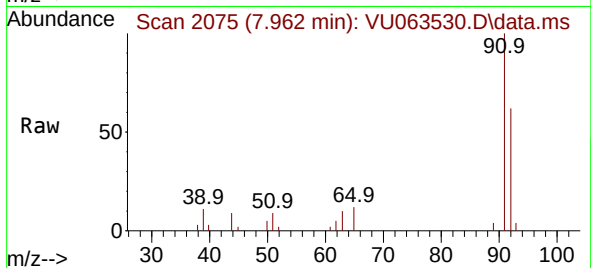
VSTDCCC010EC

Tgt Ion: 92 Resp: 6024

Ion Ratio Lower Upper

92 100

91 171.7 140.4 210.6



#52

1,1,2-Trichloroethane

Concen: 2.480 ug/l

RT: 8.393 min Scan# 2209

Delta R.T. -0.000 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Tgt Ion: 97 Resp: 11353

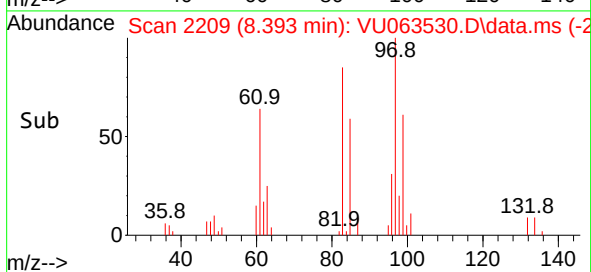
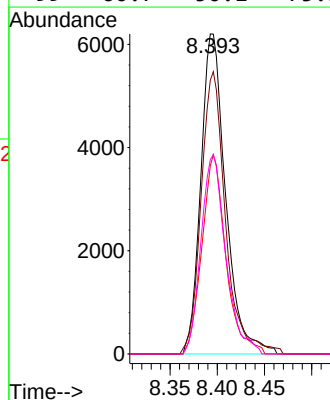
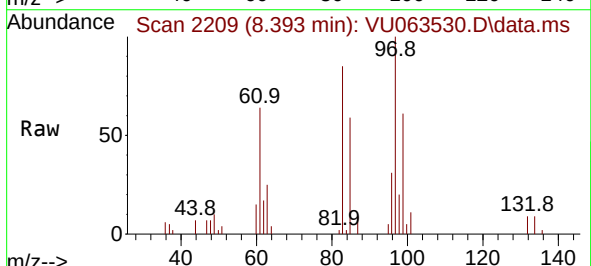
Ion Ratio Lower Upper

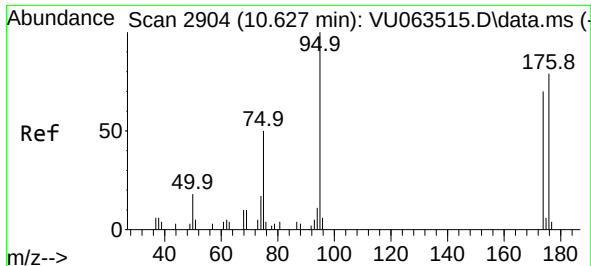
97 100

83 85.5 70.2 105.2

85 58.7 45.2 67.8

99 60.7 50.1 75.1





#57

4-Bromofluorobenzene

Concen: 0.792 ug/l

RT: 10.630 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC010EC

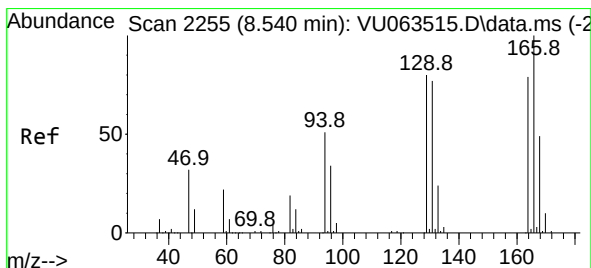
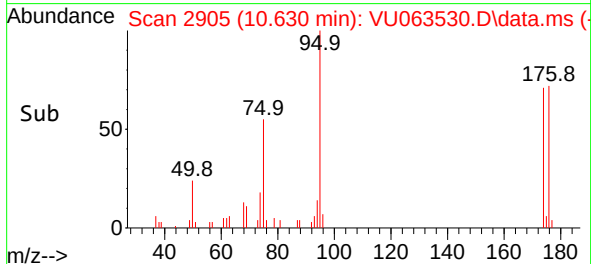
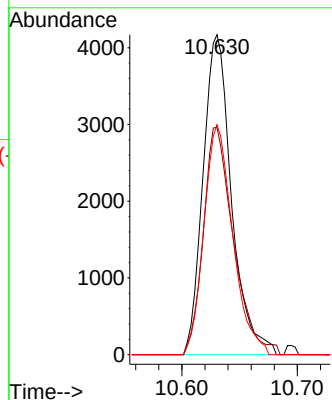
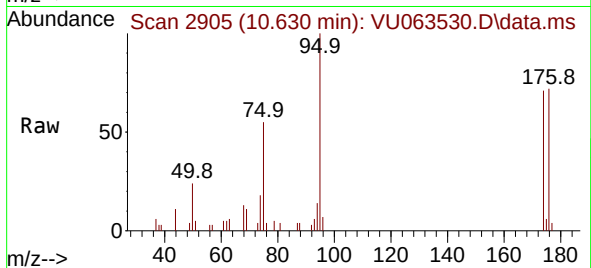
Tgt Ion: 95 Resp: 7137

Ion Ratio Lower Upper

95 100

174 75.2 59.8 89.8

176 72.8 61.8 92.8



#58

Tetrachloroethene

Concen: 2.231 ug/l

RT: 8.540 min Scan# 2255

Delta R.T. -0.000 min

Lab File: VU063530.D

Acq: 17 Jul 2025 17:50

Tgt Ion: 164 Resp: 14610

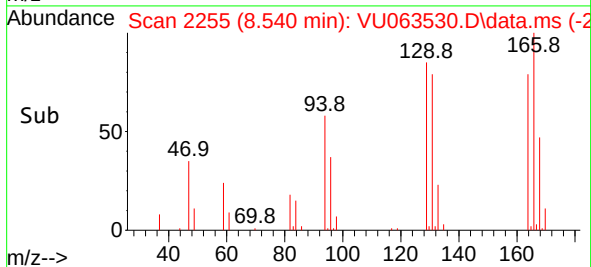
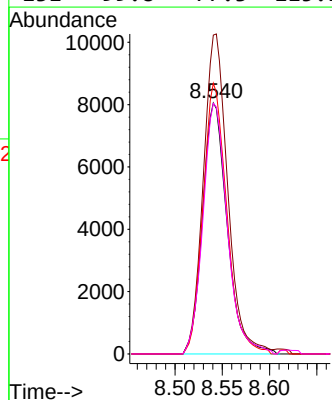
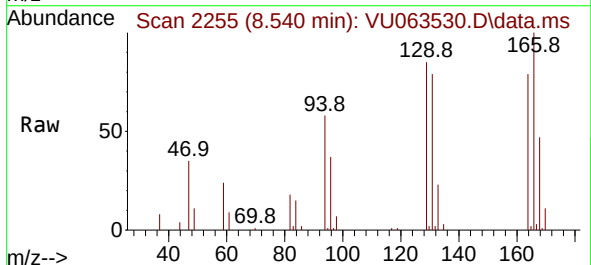
Ion Ratio Lower Upper

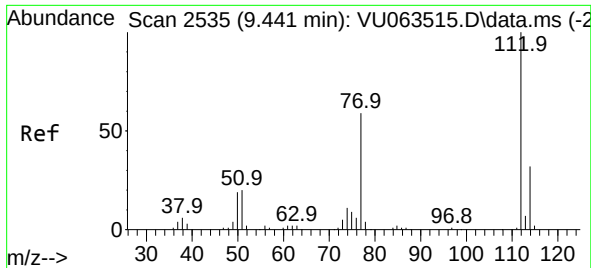
164 100

166 127.0 100.7 151.1

129 107.8 80.6 120.8

131 99.8 77.3 115.9

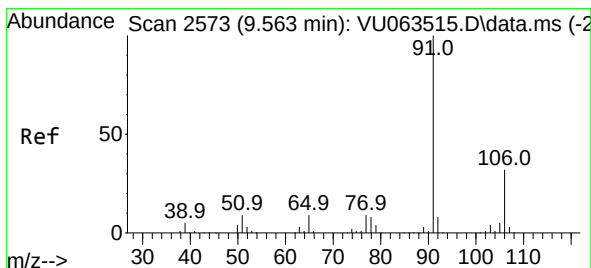
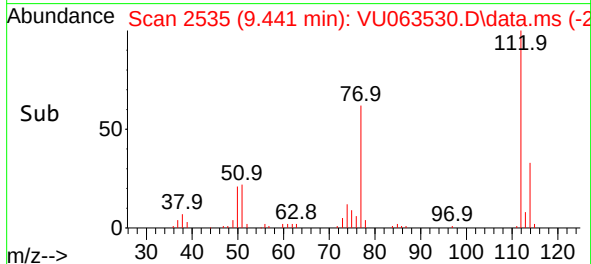
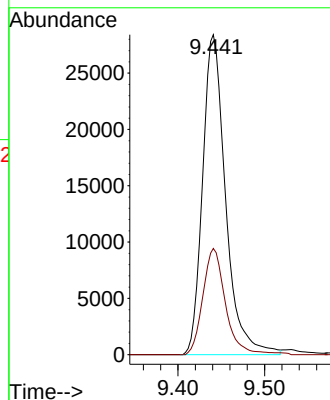
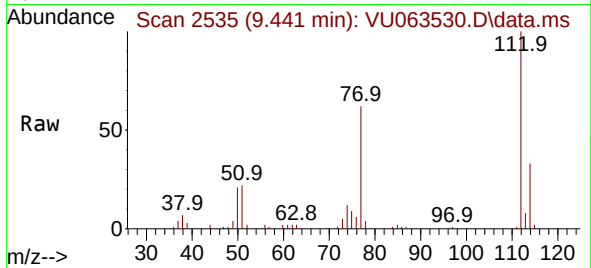




#59
Chlorobenzene
Concen: 2.980 ug/l
RT: 9.441 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

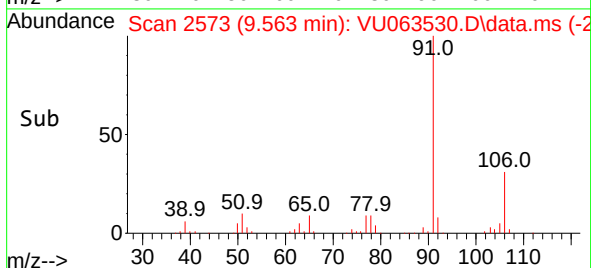
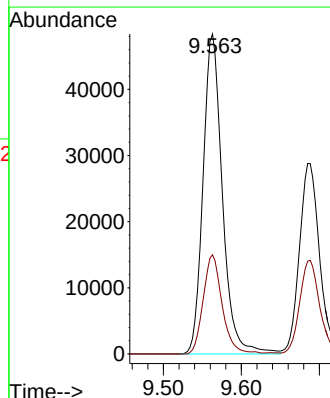
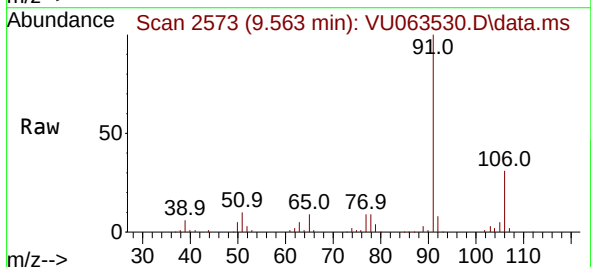
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

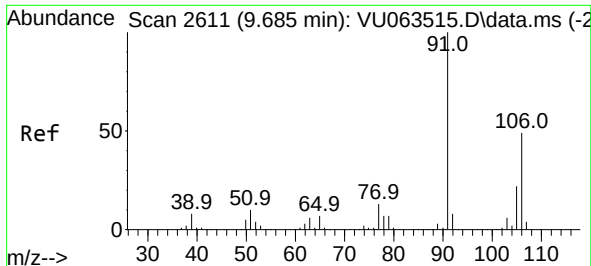
Tgt Ion:112 Resp: 52409
Ion Ratio Lower Upper
112 100
114 33.2 25.4 38.2



#63
Ethyl Benzene
Concen: 2.758 ug/l
RT: 9.563 min Scan# 2573
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion: 91 Resp: 83487
Ion Ratio Lower Upper
91 100
106 31.0 25.4 38.0

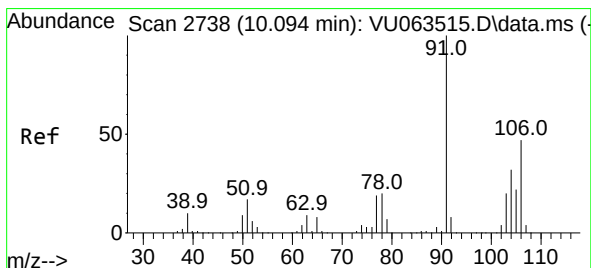
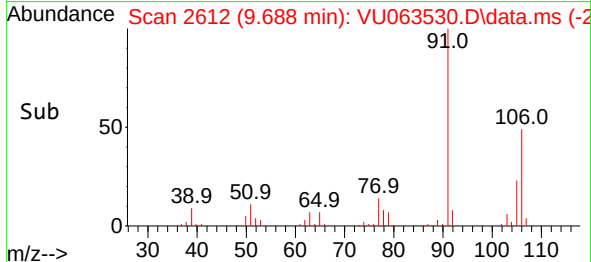
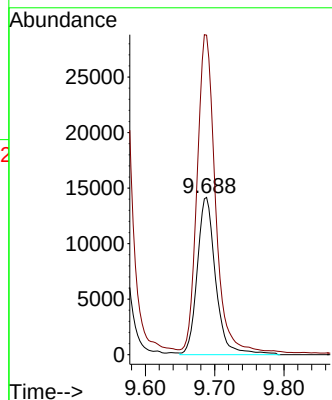
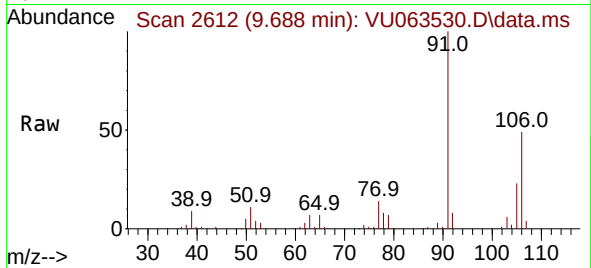




#64
m/p-Xylenes
Concen: 2.228 ug/l
RT: 9.688 min Scan# 2611
Delta R.T. 0.003 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

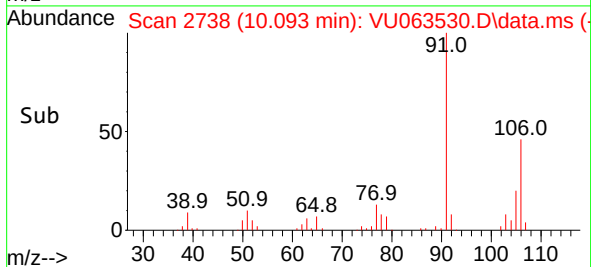
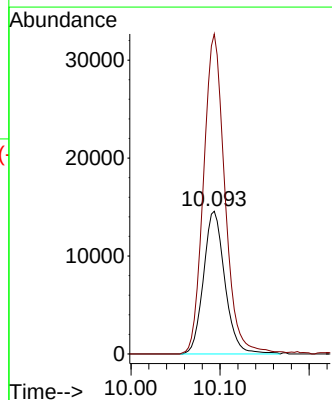
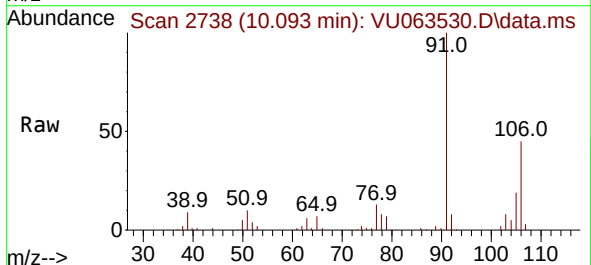
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

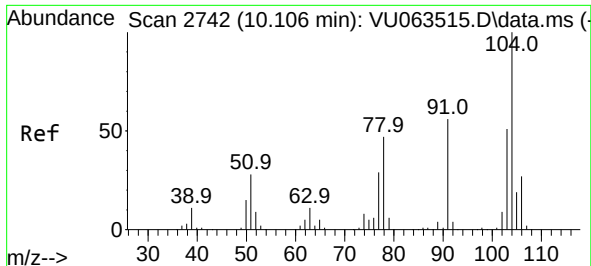
Tgt Ion:106 Resp: 26216
Ion Ratio Lower Upper
106 100
91 202.2 163.6 245.4



#65
o-Xylene
Concen: 2.153 ug/l
RT: 10.093 min Scan# 2738
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion:106 Resp: 24341
Ion Ratio Lower Upper
106 100
91 223.8 108.1 324.4

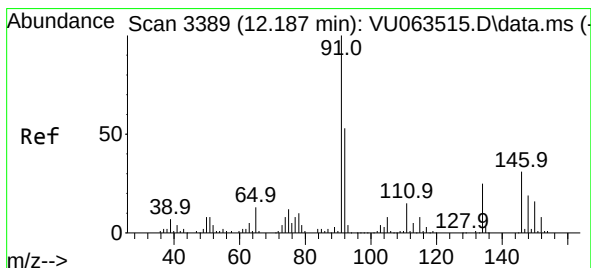
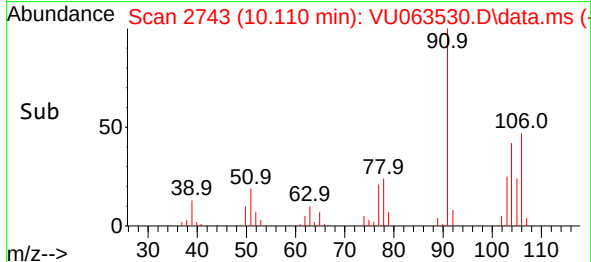
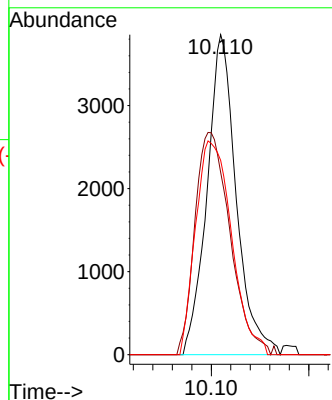
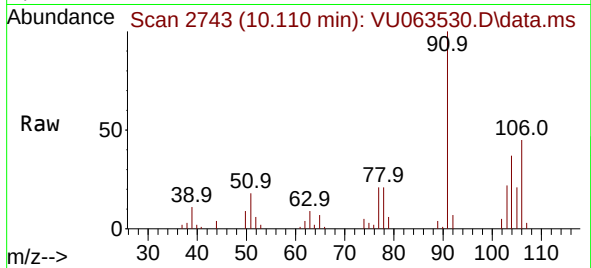




#66
 Styrene
 Concen: 0.445 ug/l
 RT: 10.110 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VU063530.D
 Acq: 17 Jul 2025 17:50

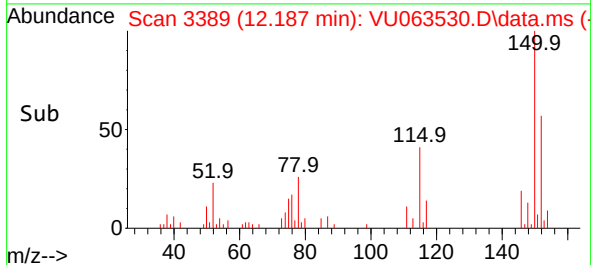
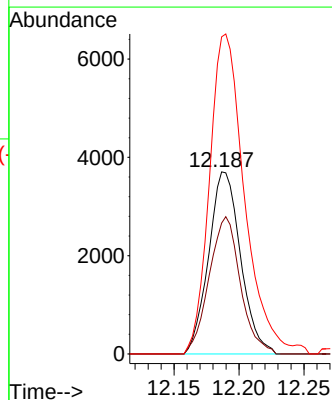
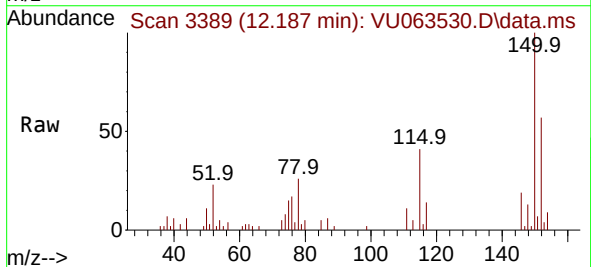
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

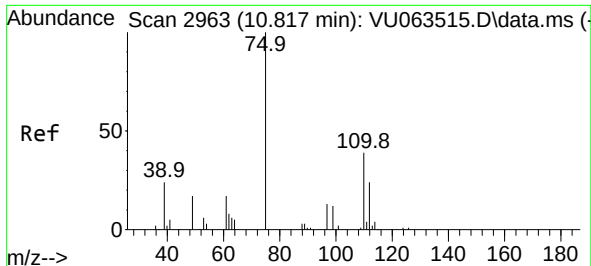
Tgt Ion:104 Resp: 8011
 Ion Ratio Lower Upper
 104 100
 78 83.9 41.3 61.9#
 103 82.3 43.6 65.4#



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.760 ug/l
 RT: 12.187 min Scan# 3389
 Delta R.T. -0.000 min
 Lab File: VU063530.D
 Acq: 17 Jul 2025 17:50

Tgt Ion:152 Resp: 6334
 Ion Ratio Lower Upper
 152 100
 115 73.7 0.0 262.2
 150 193.3 0.0 651.2

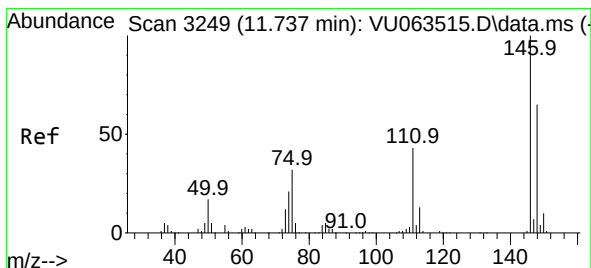
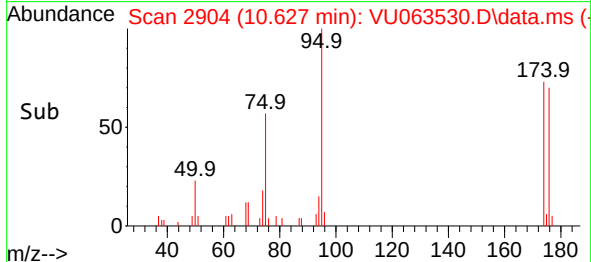
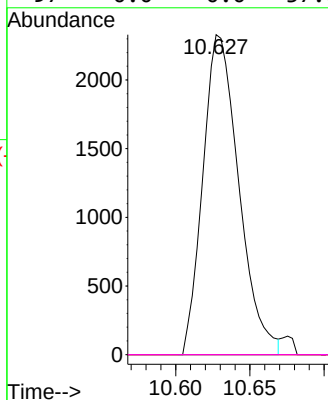
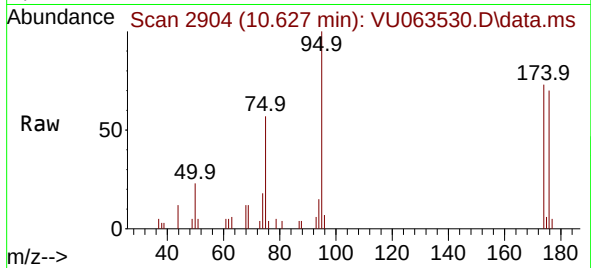




#71
 1,2,3-Trichloropropane
 Concen: 0.868 ug/l
 RT: 10.627 min Scan# 2963
 Delta R.T. -0.190 min
 Lab File: VU063530.D
 Acq: 17 Jul 2025 17:50

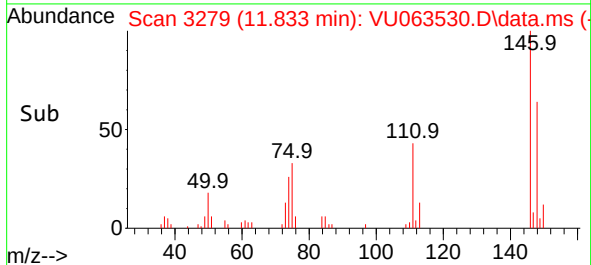
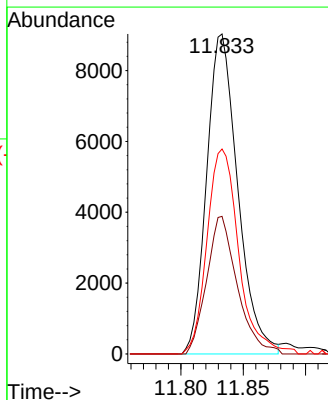
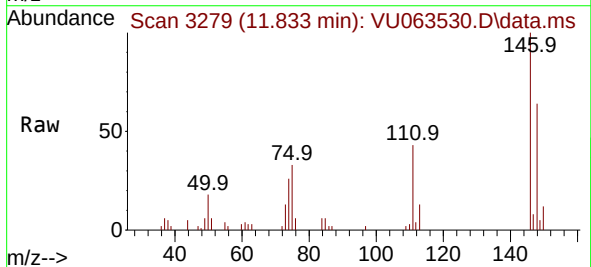
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

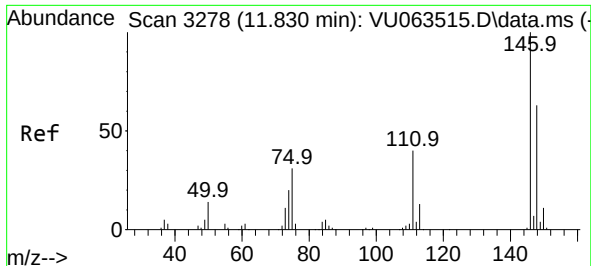
Tgt Ion:	75	Resp:	3927
Ion Ratio	Lower	Upper	
75	100		
77	0.5	0.0	0.0#
110	0.0	0.0	73.2
97	0.0	0.0	37.6



#82
 1,3-Dichlorobenzene
 Concen: 1.112 ug/l
 RT: 11.833 min Scan# 3279
 Delta R.T. 0.096 min
 Lab File: VU063530.D
 Acq: 17 Jul 2025 17:50

Tgt Ion:	146	Resp:	15698
Ion Ratio	Lower	Upper	
146	100		
111	42.2	33.8	50.6
148	65.3	51.5	77.3

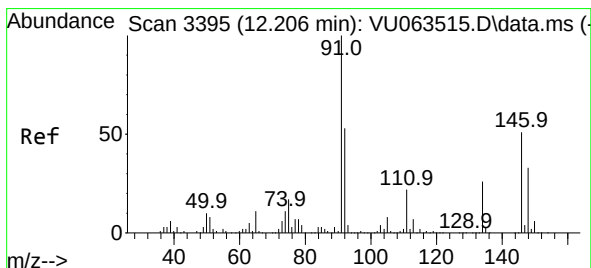
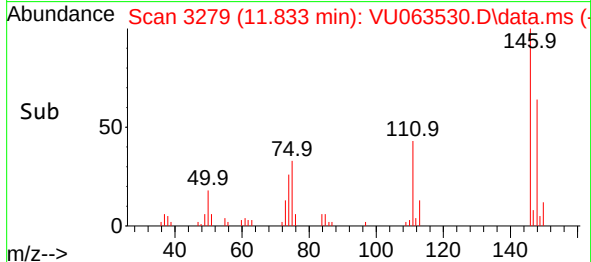
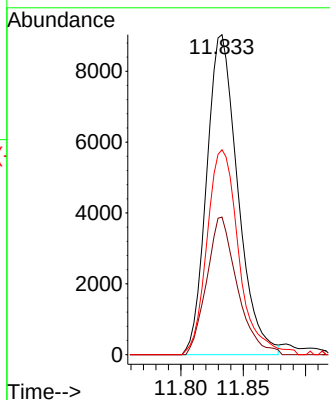
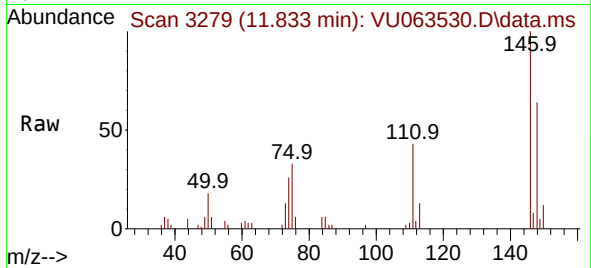




#83
1,4-Dichlorobenzene
Concen: 1.111 ug/l
RT: 11.833 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

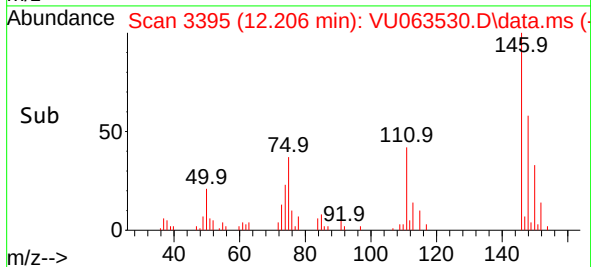
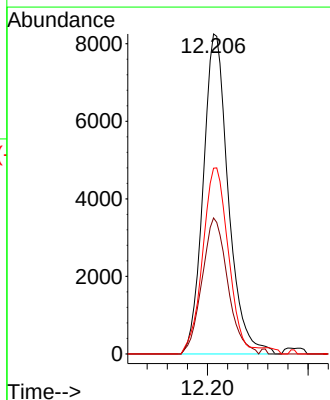
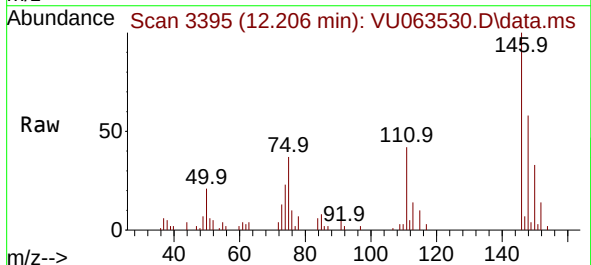
Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC010EC

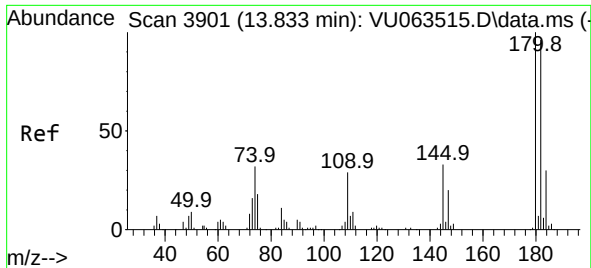
Tgt Ion:146 Resp: 15698
Ion Ratio Lower Upper
146 100
111 42.2 32.0 48.0
148 65.3 50.2 75.2



#85
1,2-Dichlorobenzene
Concen: 1.080 ug/l
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU063530.D
Acq: 17 Jul 2025 17:50

Tgt Ion:146 Resp: 14317
Ion Ratio Lower Upper
146 100
111 43.4 21.7 65.1
148 60.0 31.8 95.3





#87
 1,2,4-Trichlorobenzene
 Concen: 3.907 ug/l
 RT: 13.836 min Scan# 3901
 Delta R.T. 0.003 min
 Lab File: VU063530.D
 Acq: 17 Jul 2025 17:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:180 Resp: 32216
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.2 114.4
 145 32.9 26.2 39.2

