

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071825\
 Data File : VU063541.D
 Acq On : 18 Jul 2025 17:25
 Operator : MD/SY
 Sample : Q2552-07DL 5X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WS0725-PT-RVOA-WSDL

Quant Time: Jul 18 23:52:13 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)

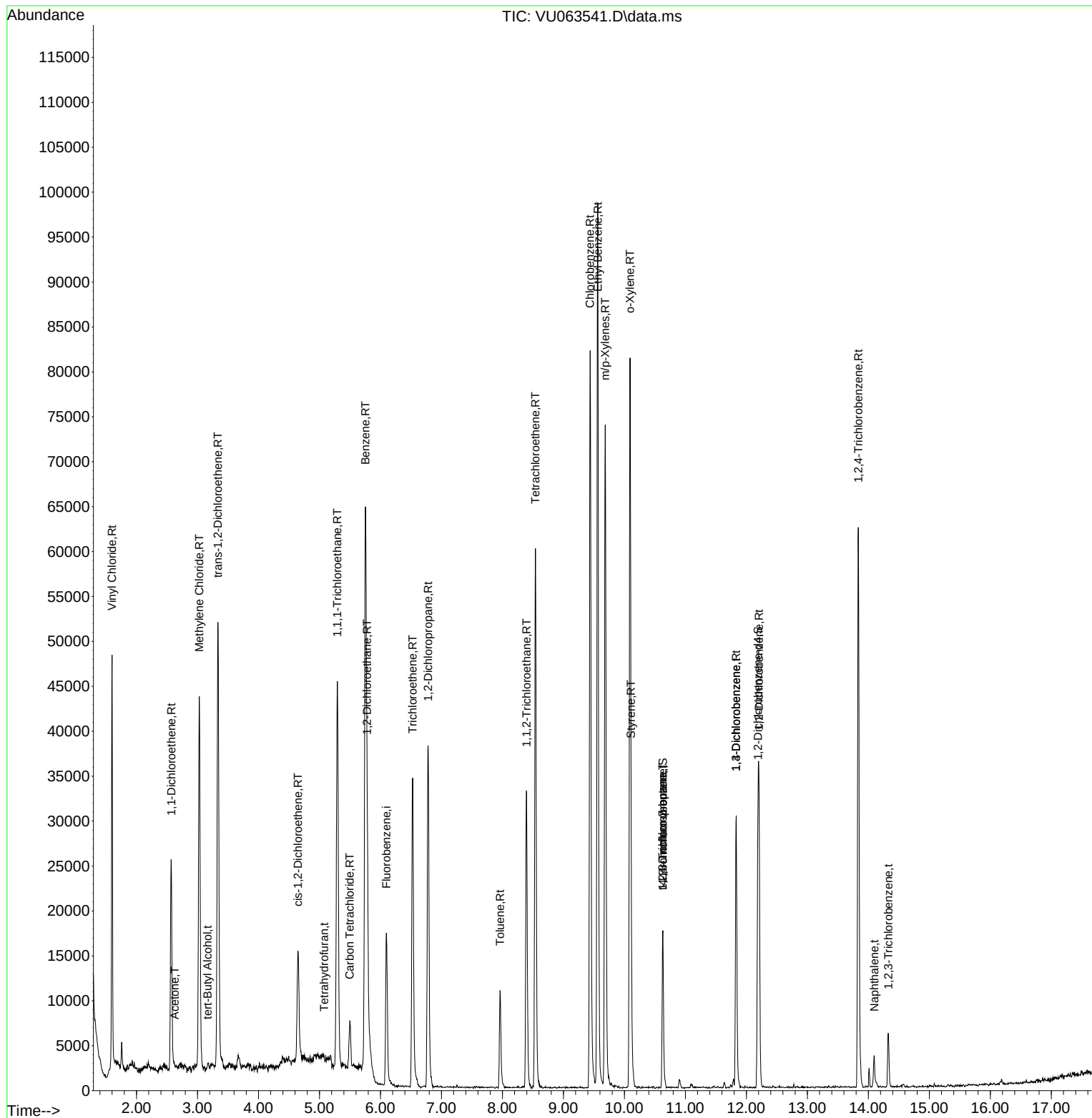
Internal Standards						
1) Fluorobenzene	6.097	96	16405	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	6421	1.034	ug/l	0.00
Spiked Amount 1.000			Recovery	=	103.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	5884	1.024	ug/l	0.00
Spiked Amount 1.000			Recovery	=	102.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.599	62	28569	4.989	ug/l	99
9) 1,1-Dichloroethene	2.570	96	7910	1.857	ug/l	93
13) Acetone	2.624	43	301	0.353	ug/l	# 43
15) Methylene Chloride	3.030	84	18061	3.602	ug/l	99
16) trans-1,2-Dichloroethene	3.335	96	20327	4.202	ug/l	98
22) cis-1,2-Dichloroethene	4.650	96	6421	1.223	ug/l	87
24) tert-Butyl Alcohol	3.168	59	110	0.281	ug/l	# 72
28) 1,1,1-Trichloroethane	5.293	97	29732	3.829	ug/l	99
30) Carbon Tetrachloride	5.496	117	3051	0.488	ug/l	98
35) Benzene	5.753	78	62135	3.215	ug/l	98
36) 1,2-Dichloroethane	5.782	62	18106	3.015	ug/l	96
37) Trichloroethene	6.528	130	12102	2.454	ug/l	90
38) 1,2-Dichloropropane	6.782	63	15126	3.344	ug/l	99
41) Tetrahydrofuran	5.078	42	293	0.311	ug/l	# 30
46) t-1,4-Dichloro-2-butene	10.627	75	3651	4.027	ug/l	# 32
49) Toluene	7.962	92	5105	0.484	ug/l	97
52) 1,1,2-Trichloroethane	8.396	97	10566	3.349	ug/l	97
58) Tetrachloroethene	8.541	164	12701	2.814	ug/l	97
59) Chlorobenzene	9.438	112	46978	3.876	ug/l	99
63) Ethyl Benzene	9.563	91	72286	3.466	ug/l	97
64) m/p-Xylenes	9.685	106	22061	2.721	ug/l	100
65) o-Xylene	10.094	106	21152	2.715	ug/l	94
66) Styrene	10.110	104	6942	0.559	ug/l	# 54
71) 1,2,3-Trichloropropane	10.627	75	3651	1.171	ug/l	# 45
82) 1,3-Dichlorobenzene	11.833	146	12497	1.285	ug/l	99
83) 1,4-Dichlorobenzene	11.833	146	12497	1.284	ug/l	96
85) 1,2-Dichlorobenzene	12.206	146	11072	1.212	ug/l	99
87) 1,2,4-Trichlorobenzene	13.836	180	19064	3.356	ug/l	99
89) Naphthalene	14.097	128	4396	0.432	ug/l	# 91
90) 1,2,3-Trichlorobenzene	14.328	180	2251	0.429	ug/l	92

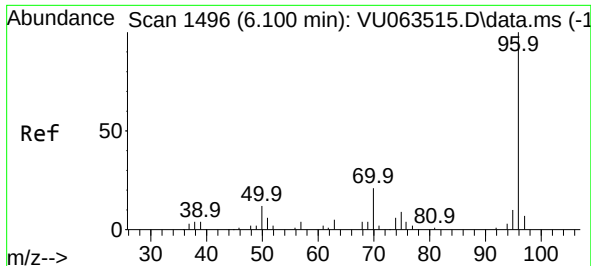
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071825\
Data File : VU063541.D
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Misc : 25mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

Quant Time: Jul 18 23:52:13 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

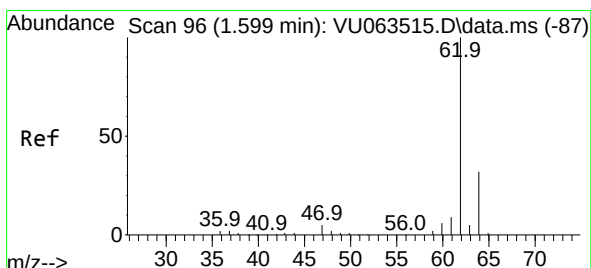
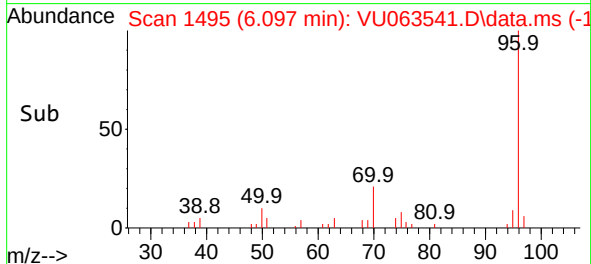
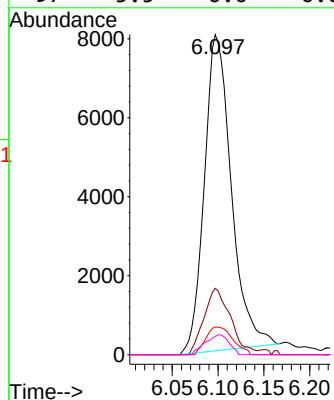
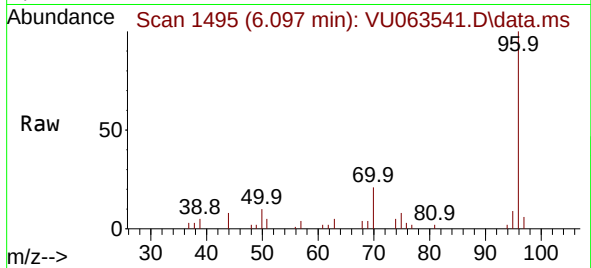




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.097 min Scan# 14
Delta R.T. -0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

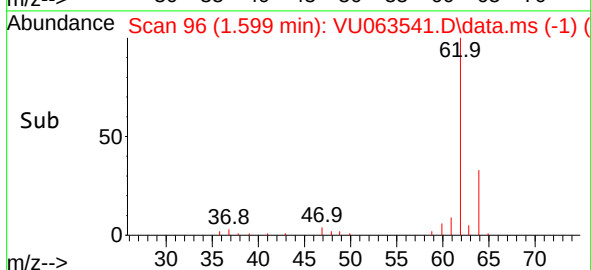
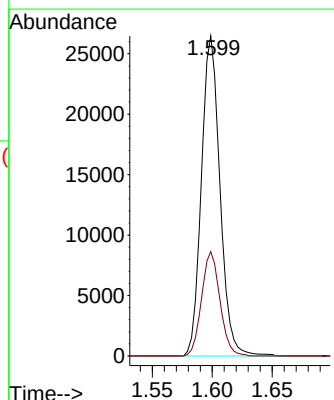
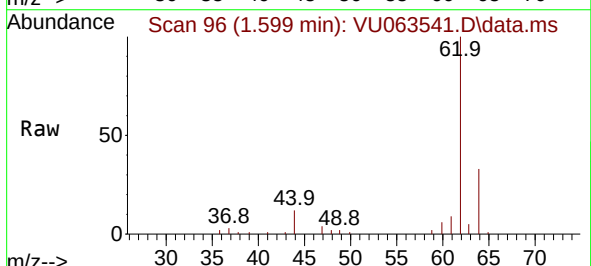
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

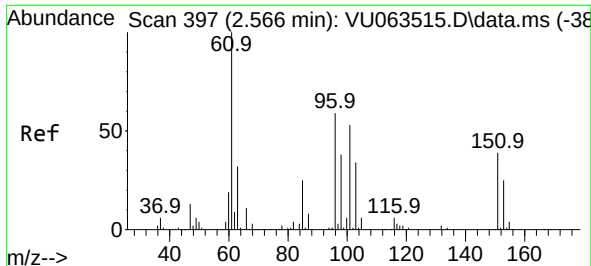
Tgt Ion:	96	Resp:	16405
Ion	Ratio	Lower	Upper
96	100		
70	19.2	15.0	22.4
95	8.7	7.4	11.0
97	5.5	0.0	0.0



#4
Vinyl Chloride
Concen: 4.989 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion:	62	Resp:	28569
Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.7	38.5

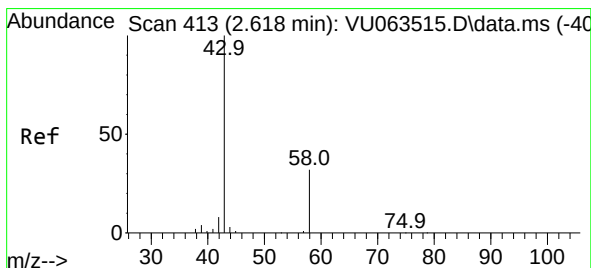
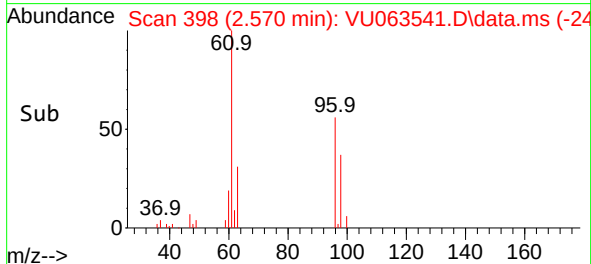
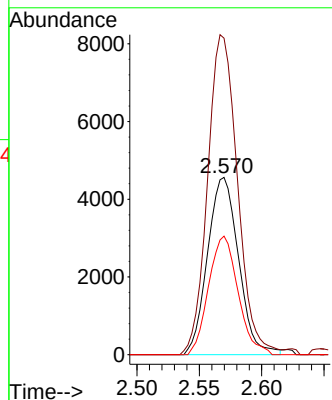
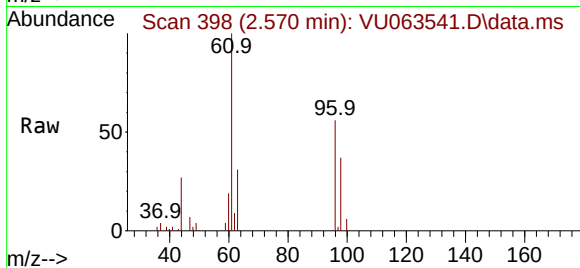




#9
1,1-Dichloroethene
Concen: 1.857 ug/l
RT: 2.570 min Scan# 397
Delta R.T. 0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

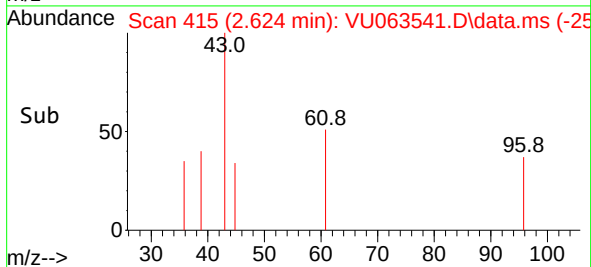
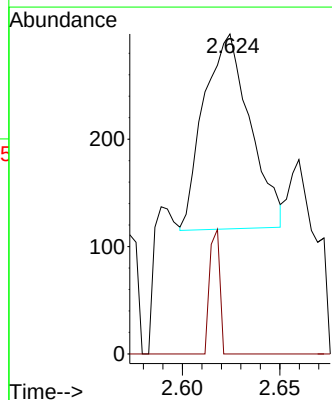
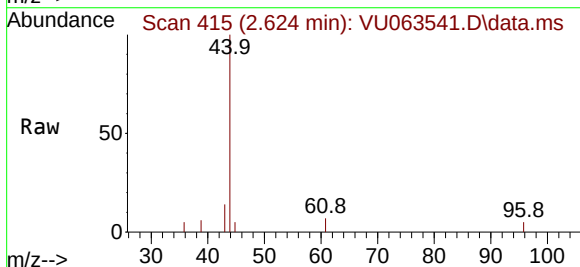
Instrument :
MSVOA_U
ClientSampleId :
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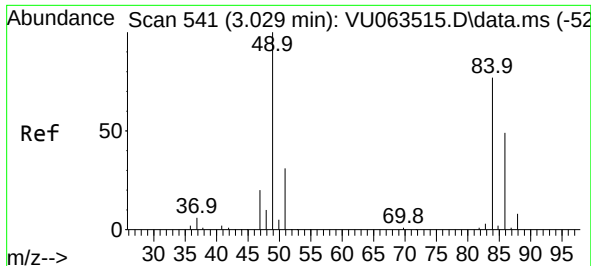
Tgt Ion: 96 Resp: 7910
Ion Ratio Lower Upper
96 100
61 178.5 0.0 504.3
98 66.9 0.0 126.8



#13
Acetone
Concen: 0.353 ug/l
RT: 2.624 min Scan# 415
Delta R.T. 0.007 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion: 43 Resp: 301
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#

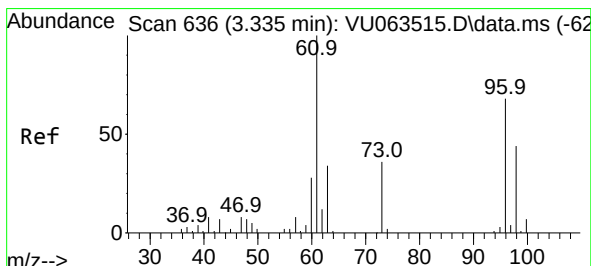
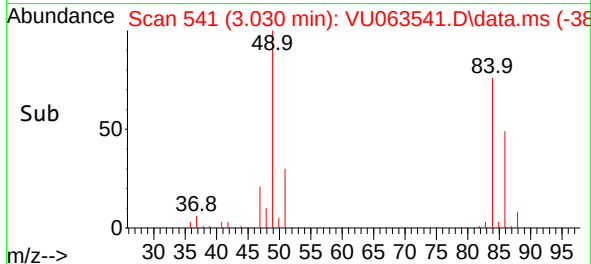
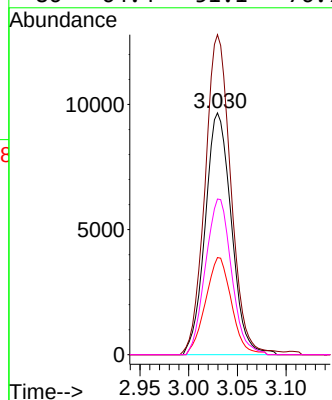
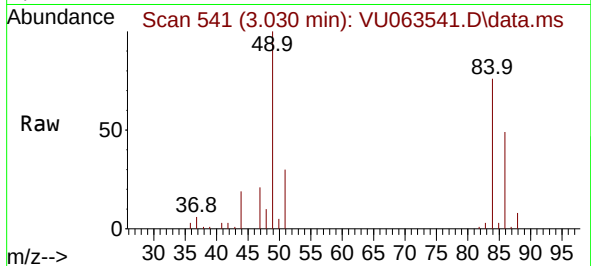




#15
Methylene Chloride
Concen: 3.602 ug/l
RT: 3.030 min Scan# 541
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

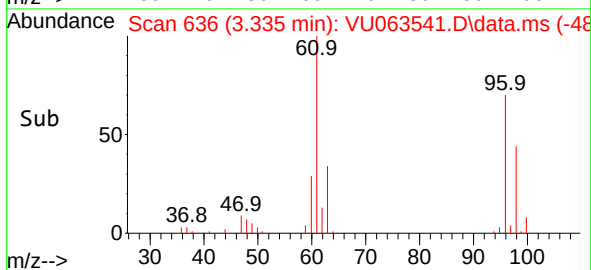
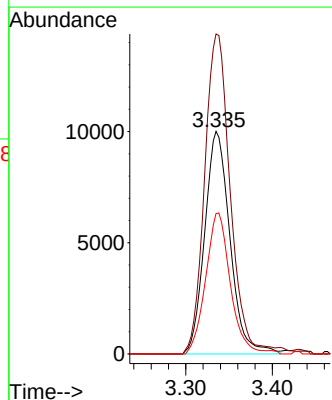
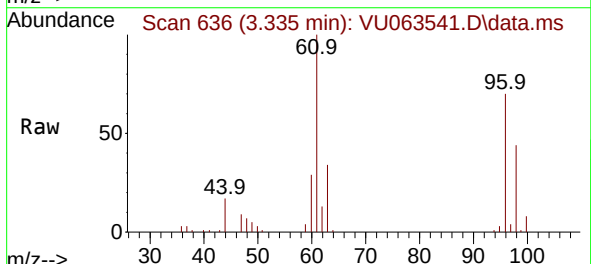
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

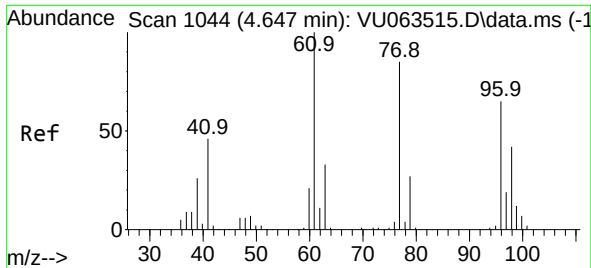
Tgt Ion:	84	Resp:	18061
Ion	Ratio	Lower	Upper
84	100		
49	132.4	103.8	155.8
51	40.2	0.0	80.4
86	64.4	51.1	76.7



#16
trans-1,2-Dichloroethene
Concen: 4.202 ug/l
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion:	96	Resp:	20327
Ion	Ratio	Lower	Upper
96	100		
61	143.8	117.2	175.8
98	63.1	51.4	77.2

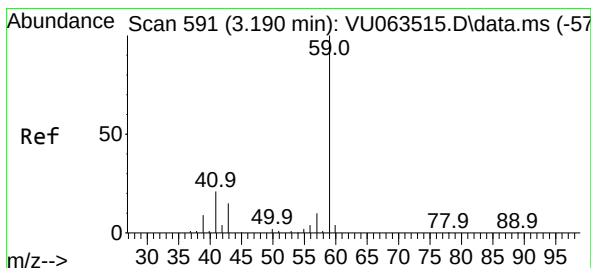
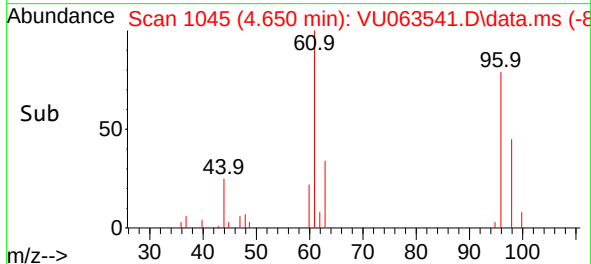
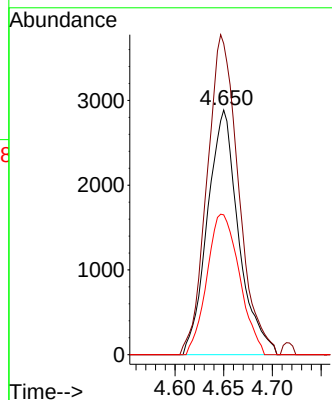
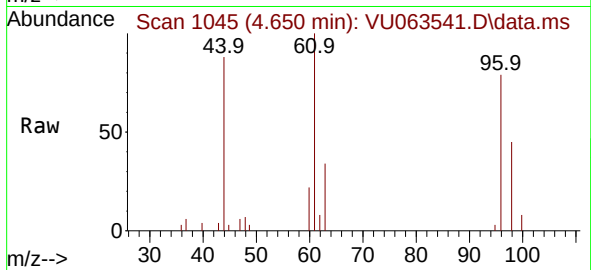




#22
 cis-1,2-Dichloroethene
 Concen: 1.223 ug/l
 RT: 4.650 min Scan# 1044
 Delta R.T. 0.003 min
 Lab File: VU063541.D
 Acq: 18 Jul 2025 17:25

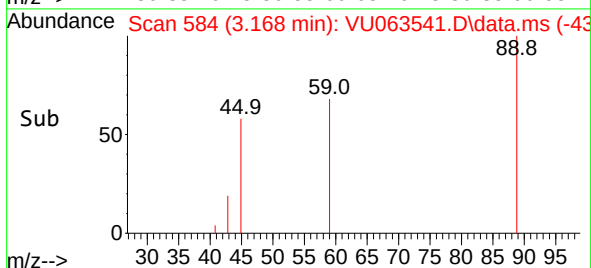
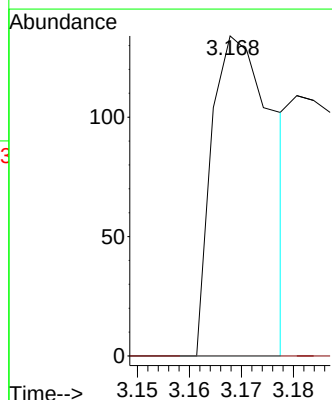
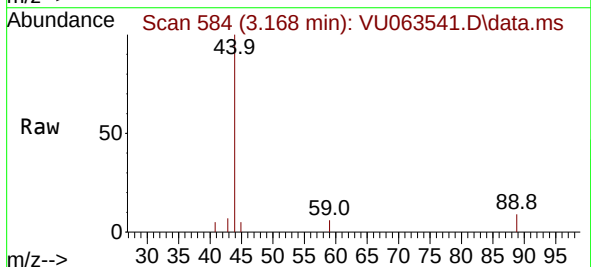
Instrument :
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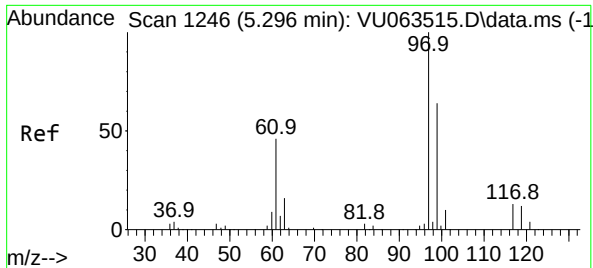
Tgt Ion: 96 Resp: 6421
 Ion Ratio Lower Upper
 96 100
 61 132.5 0.0 384.7
 98 60.0 32.1 96.3



#24
 tert-Butyl Alcohol
 Concen: 0.281 ug/l
 RT: 3.168 min Scan# 584
 Delta R.T. -0.022 min
 Lab File: VU063541.D
 Acq: 18 Jul 2025 17:25

Tgt Ion: 59 Resp: 110
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#

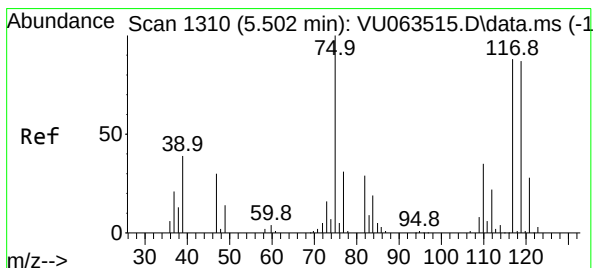
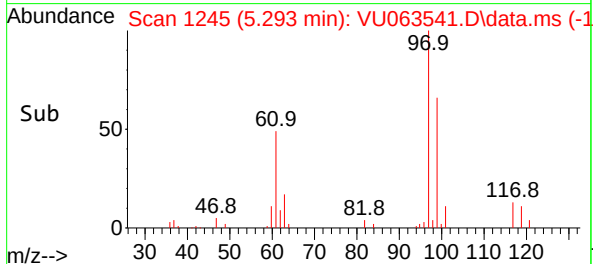
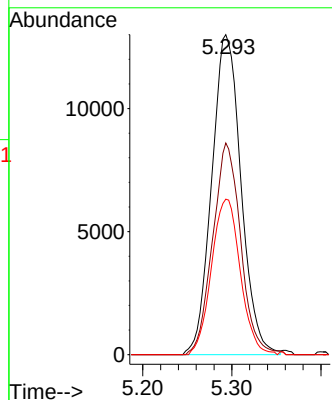
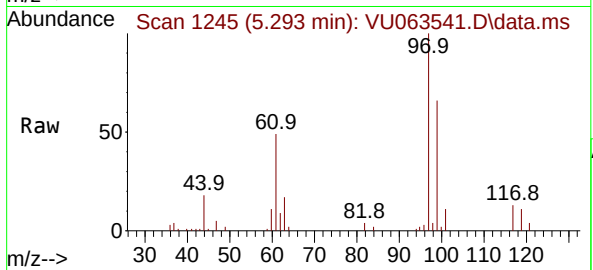




#28
1,1,1-Trichloroethane
Concen: 3.829 ug/l
RT: 5.293 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

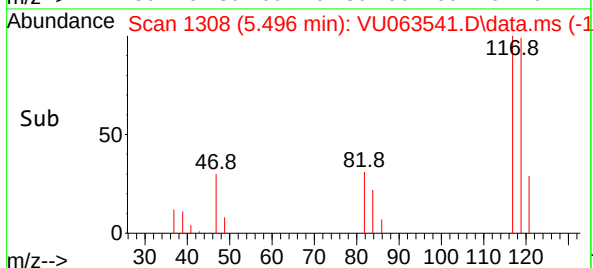
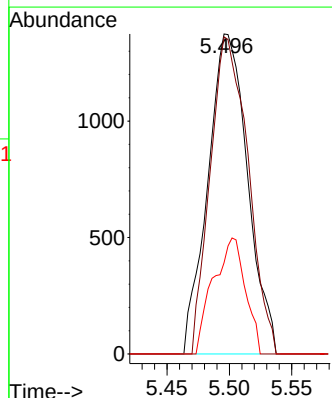
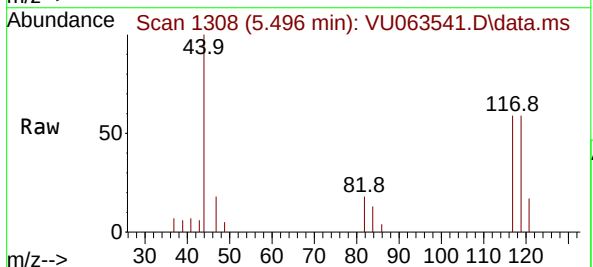
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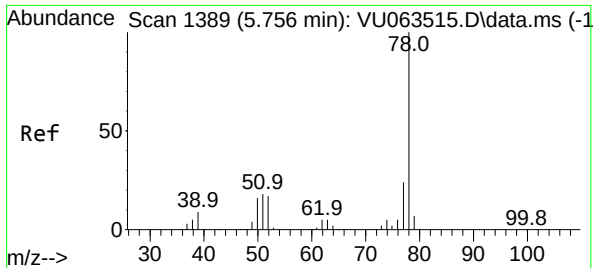
Tgt Ion: 97	Resp:	29732
Ion	Ratio	Lower Upper
97	100	
99	63.2	31.8 95.3
61	47.8	23.3 69.9



#30
Carbon Tetrachloride
Concen: 0.488 ug/l
RT: 5.496 min Scan# 1308
Delta R.T. -0.006 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion: 117	Resp:	3051
Ion	Ratio	Lower Upper
117	100	
119	99.1	79.2 118.8
121	28.5	25.5 38.3

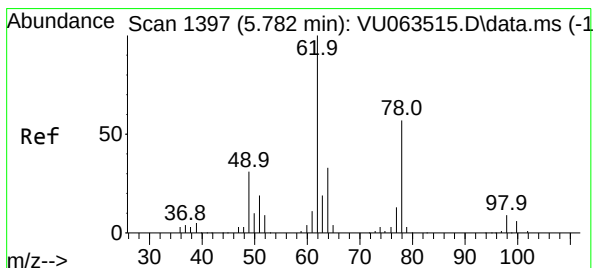
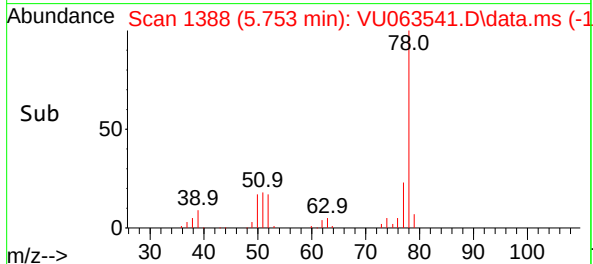
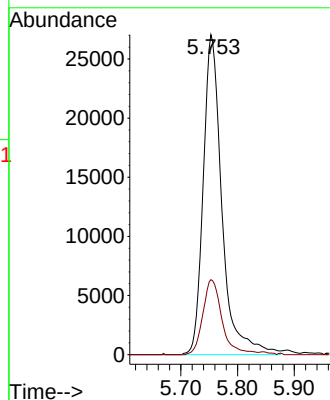
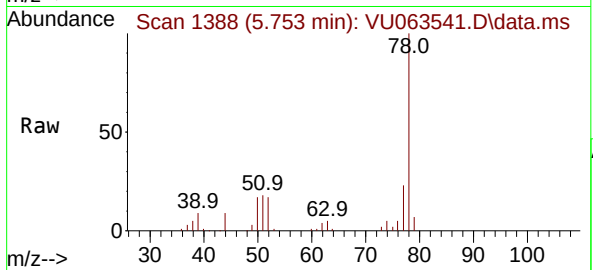




#35
Benzene
Concen: 3.215 ug/l
RT: 5.753 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

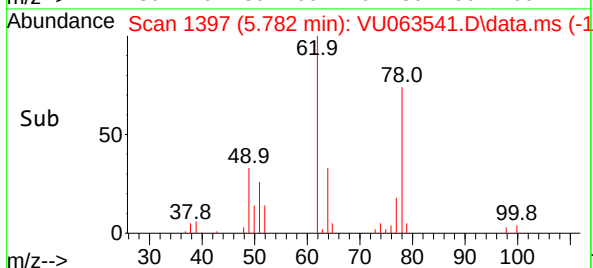
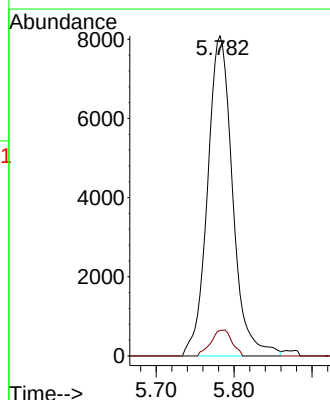
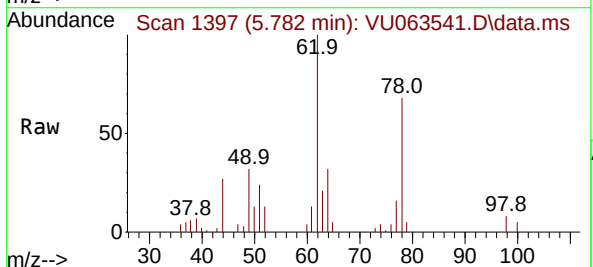
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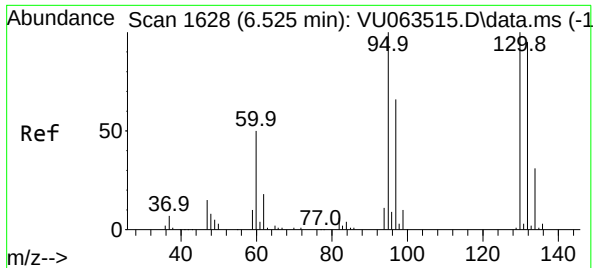
Tgt Ion: 78 Resp: 62135
Ion Ratio Lower Upper
78 100
77 23.5 19.4 29.2



#36
1,2-Dichloroethane
Concen: 3.015 ug/l
RT: 5.782 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion: 62 Resp: 18106
Ion Ratio Lower Upper
62 100
98 6.7 6.4 9.6

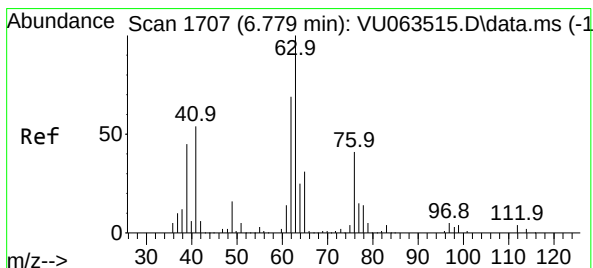
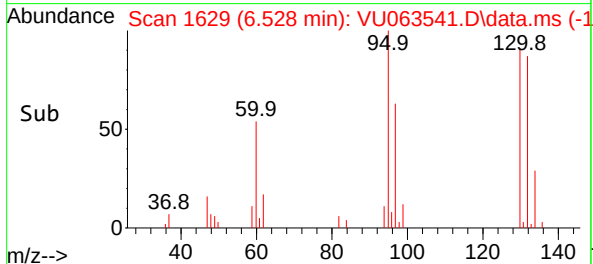
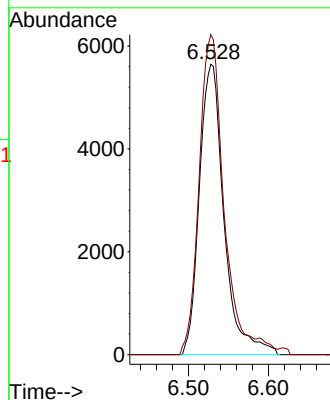
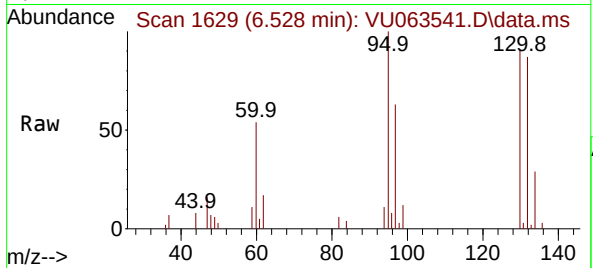




#37
Trichloroethene
Concen: 2.454 ug/l
RT: 6.528 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

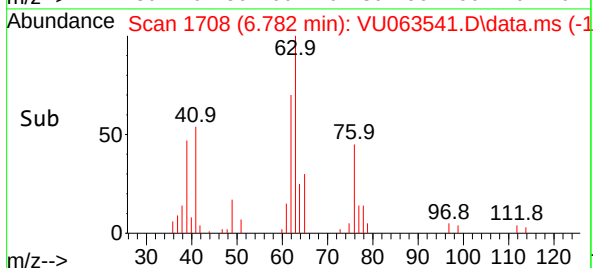
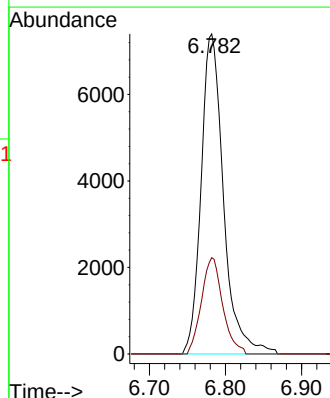
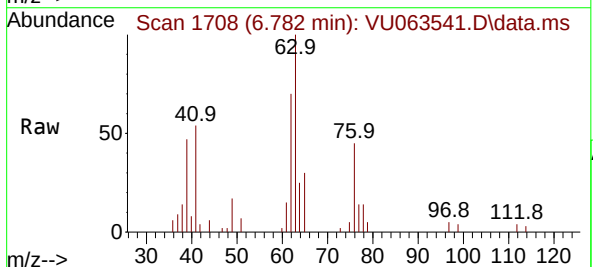
Instrument :
MSVOA_U
ClientSampleId :
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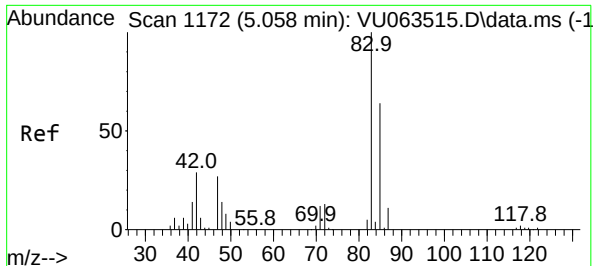
Tgt Ion:130 Resp: 12102
Ion Ratio Lower Upper
130 100
95 110.2 80.3 120.5



#38
1,2-Dichloropropane
Concen: 3.344 ug/l
RT: 6.782 min Scan# 1708
Delta R.T. 0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion: 63 Resp: 15126
Ion Ratio Lower Upper
63 100
65 30.1 24.6 36.8





#41

Tetrahydrofuran

Concen: 0.311 ug/l

RT: 5.078 min Scan# 1178

Delta R.T. 0.019 min

Lab File: VU063541.D

Acq: 18 Jul 2025 17:25

Instrument :

MSVOA_U

ClientSampleId :

WS0725-PT-RVOA-WSDL

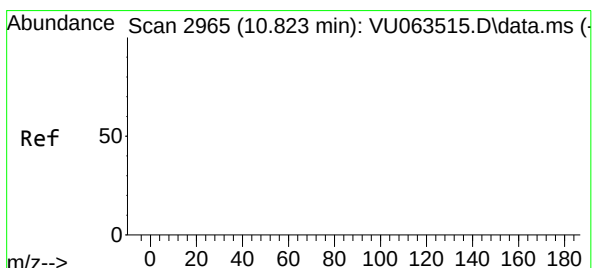
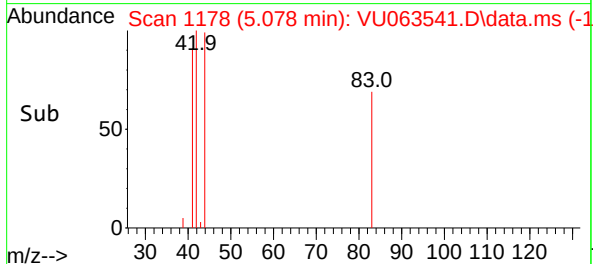
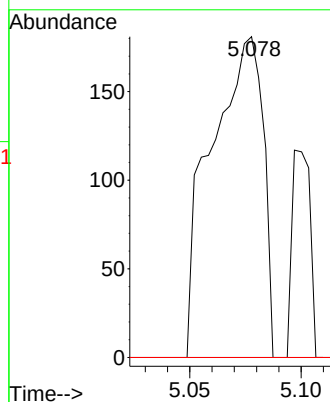
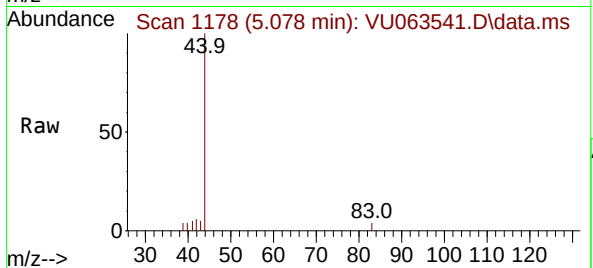
Tgt Ion: 42 Resp: 293

Ion Ratio Lower Upper

42 100

72 0.0 39.2 58.8#

71 0.0 34.8 52.2#



#46

t-1,4-Dichloro-2-butene

Concen: 4.027 ug/l

RT: 10.627 min Scan# 2904

Delta R.T. -0.196 min

Lab File: VU063541.D

Acq: 18 Jul 2025 17:25

Tgt Ion: 75 Resp: 3651

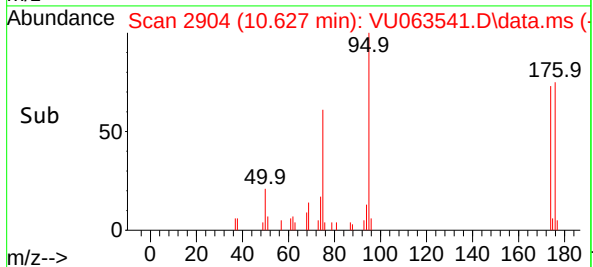
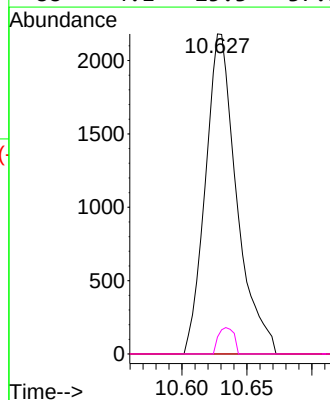
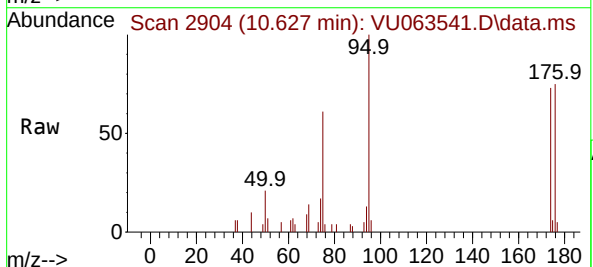
Ion Ratio Lower Upper

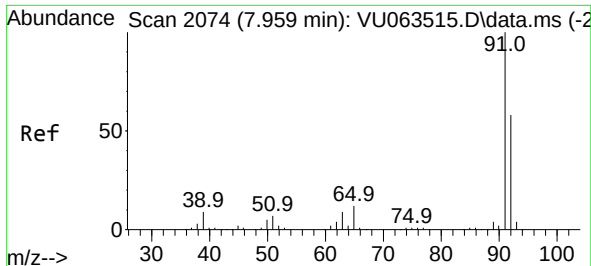
75 100

53 0.0 48.4 72.6#

89 0.0 30.6 45.8#

88 4.1 25.3 37.9#





#49

Toluene

Concen: 0.484 ug/l

RT: 7.962 min Scan# 2074

Delta R.T. 0.003 min

Lab File: VU063541.D

Acq: 18 Jul 2025 17:25

Instrument :

MSVOA_U

ClientSampleId :

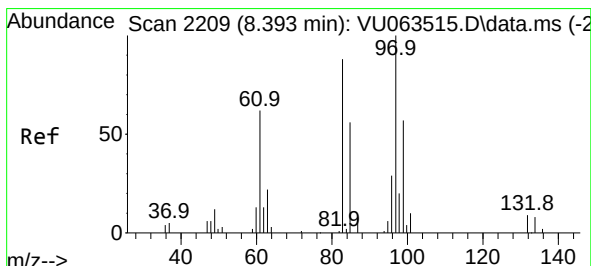
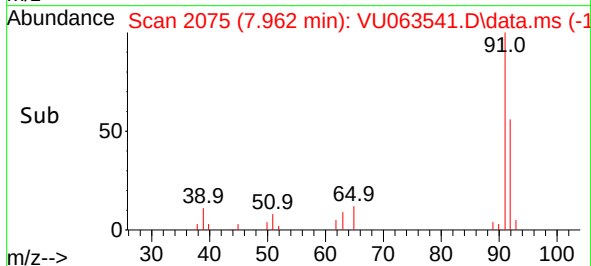
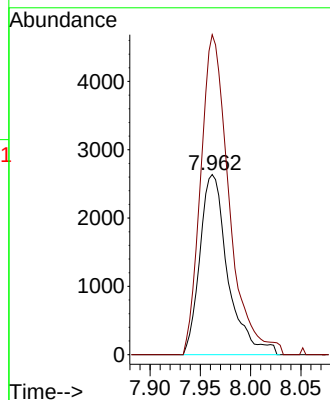
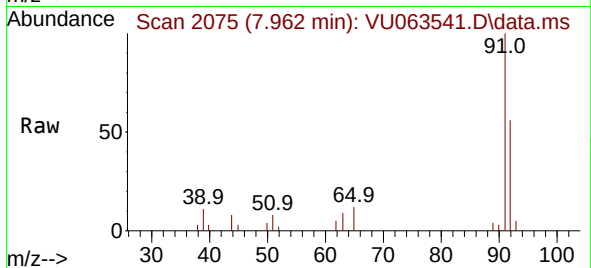
WS0725-PT-RVOA-WSDL

Tgt Ion: 92 Resp: 5105

Ion Ratio Lower Upper

92 100

91 180.1 140.4 210.6



#52

1,1,2-Trichloroethane

Concen: 3.349 ug/l

RT: 8.396 min Scan# 2210

Delta R.T. 0.003 min

Lab File: VU063541.D

Acq: 18 Jul 2025 17:25

Tgt Ion: 97 Resp: 10566

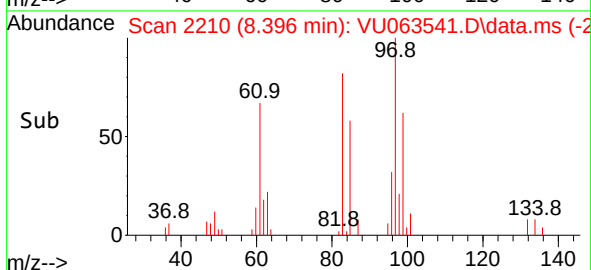
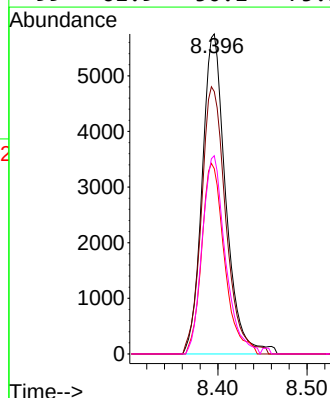
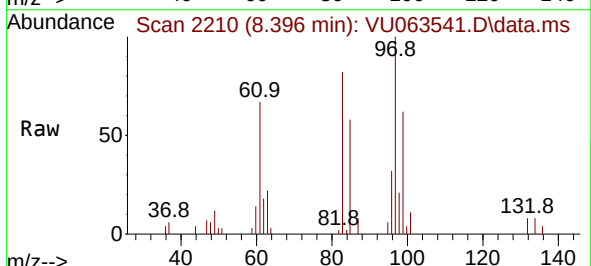
Ion Ratio Lower Upper

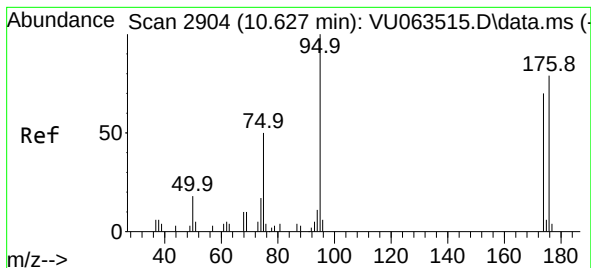
97 100

83 82.0 70.2 105.2

85 57.9 45.2 67.8

99 61.9 50.1 75.1

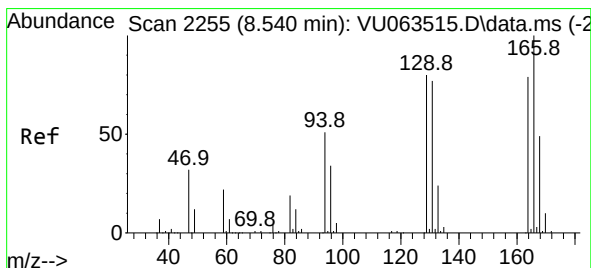
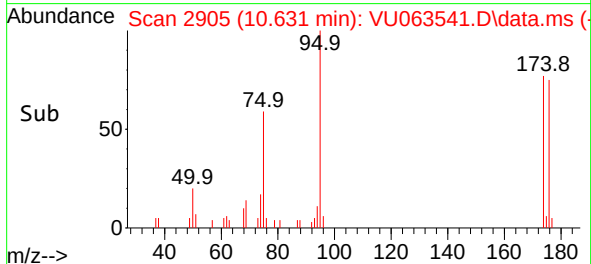
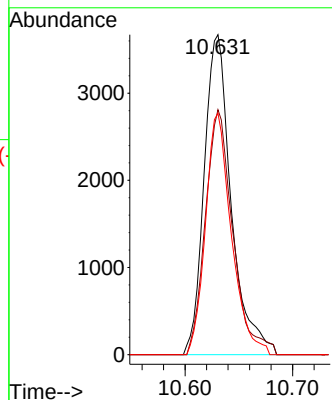
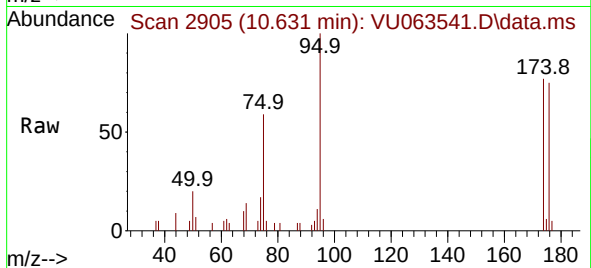




#57
4-Bromofluorobenzene
Concen: 1.034 ug/l
RT: 10.631 min Scan# 2905
Delta R.T. 0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

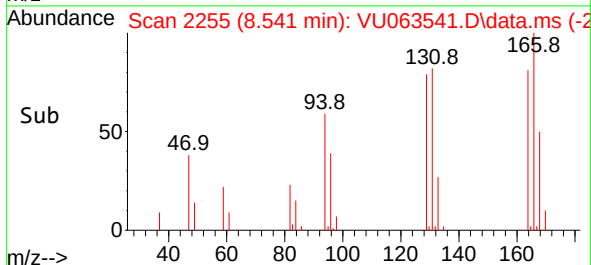
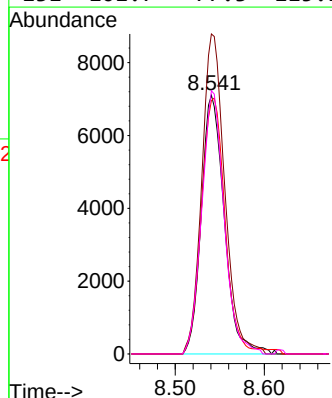
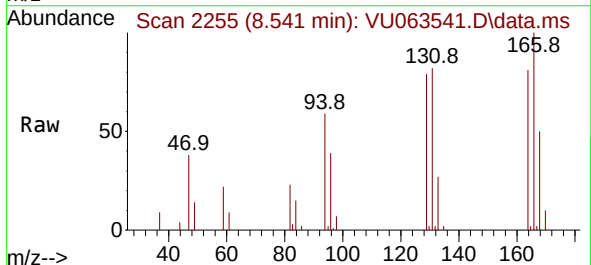
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

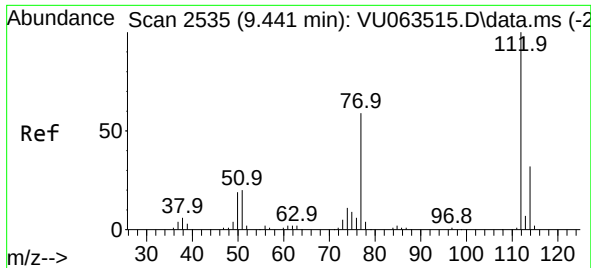
Tgt Ion: 95 Resp: 6421
Ion Ratio Lower Upper
95 100
174 77.6 59.8 89.8
176 72.3 61.8 92.8



#58
Tetrachloroethene
Concen: 2.814 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion: 164 Resp: 12701
Ion Ratio Lower Upper
164 100
166 123.7 100.7 151.1
129 98.0 80.6 120.8
131 101.7 77.3 115.9

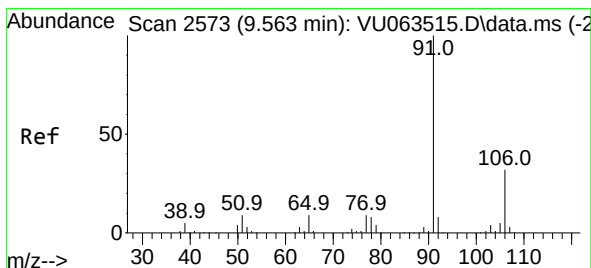
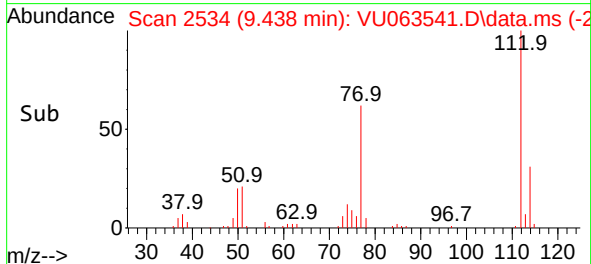
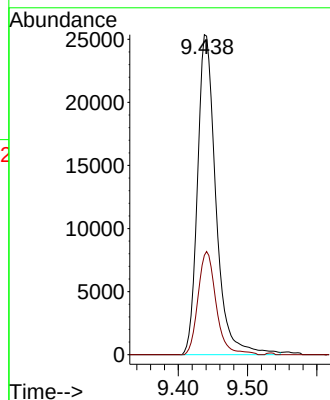
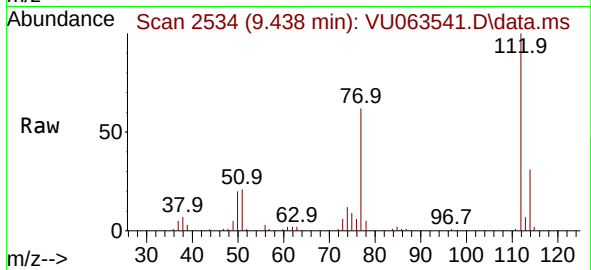




#59
Chlorobenzene
Concen: 3.876 ug/l
RT: 9.438 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

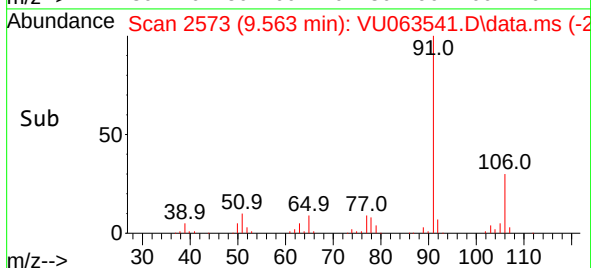
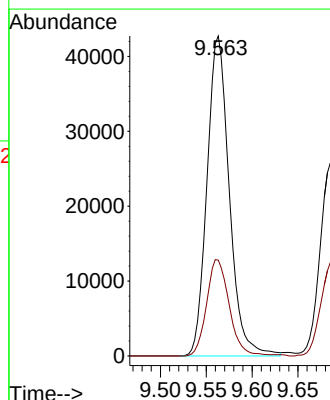
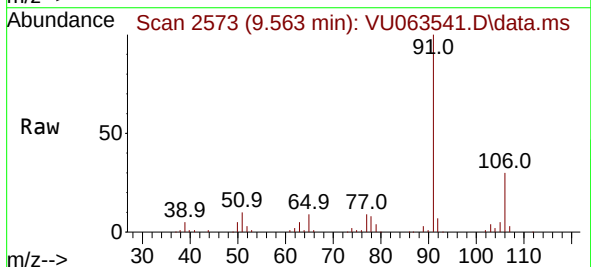
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

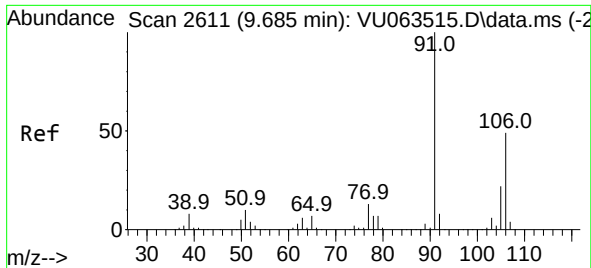
Tgt Ion:112 Resp: 46978
Ion Ratio Lower Upper
112 100
114 31.1 25.4 38.2



#63
Ethyl Benzene
Concen: 3.466 ug/l
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion: 91 Resp: 72286
Ion Ratio Lower Upper
91 100
106 30.0 25.4 38.0

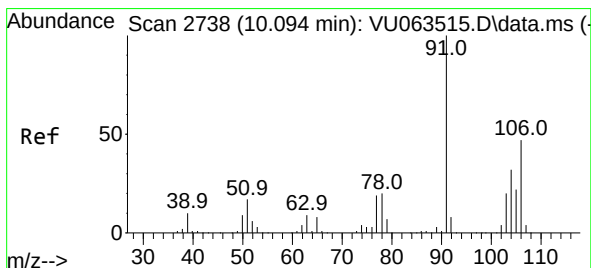
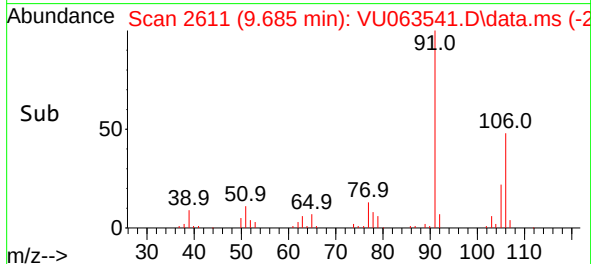
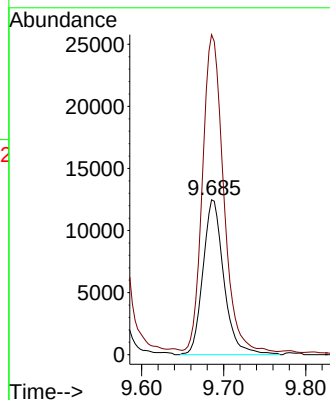
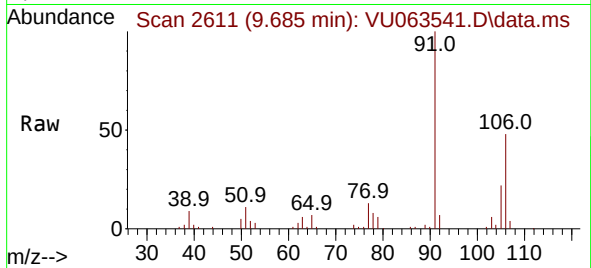




#64
m/p-Xylenes
Concen: 2.721 ug/l
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

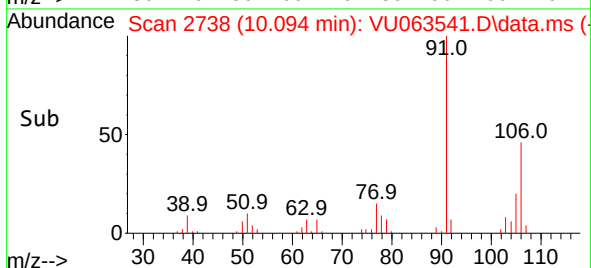
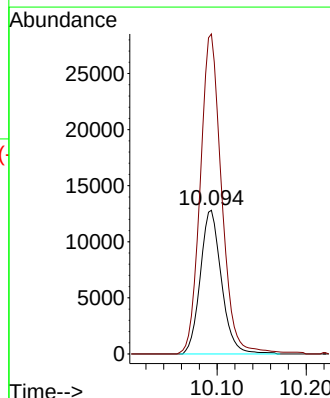
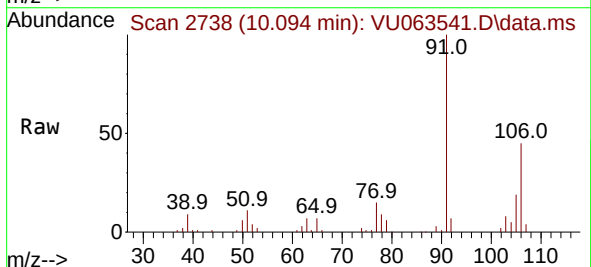
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

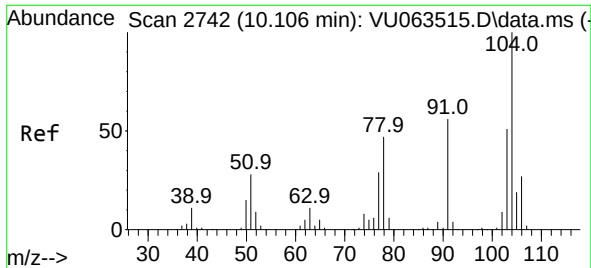
Tgt Ion:106 Resp: 22061
Ion Ratio Lower Upper
106 100
91 204.8 163.6 245.4



#65
o-Xylene
Concen: 2.715 ug/l
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion:106 Resp: 21152
Ion Ratio Lower Upper
106 100
91 225.3 108.1 324.4

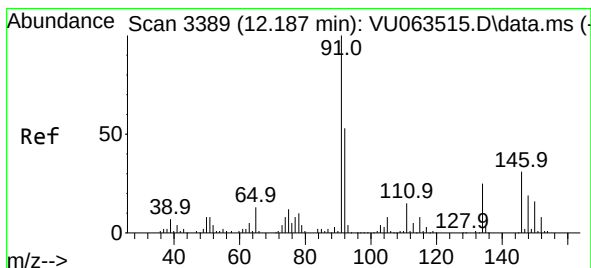
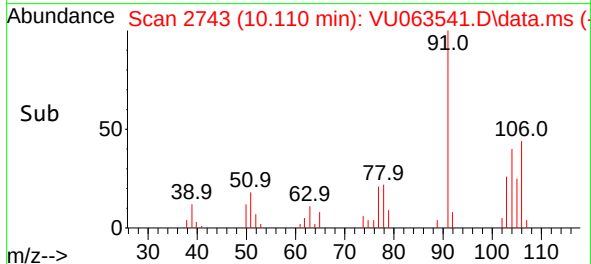
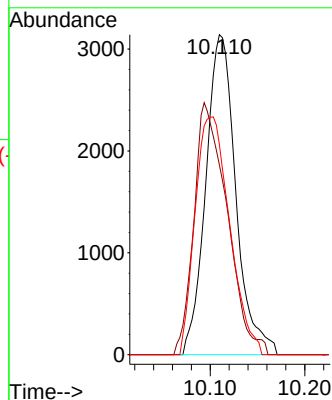
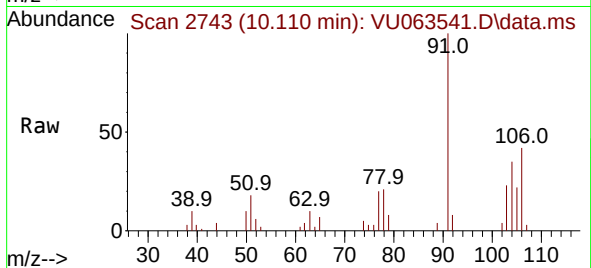




#66
Styrene
Concen: 0.559 ug/l
RT: 10.110 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

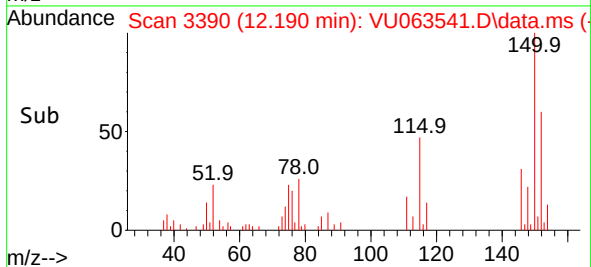
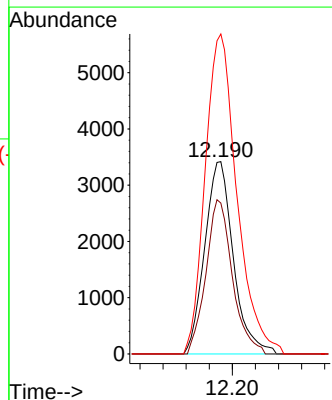
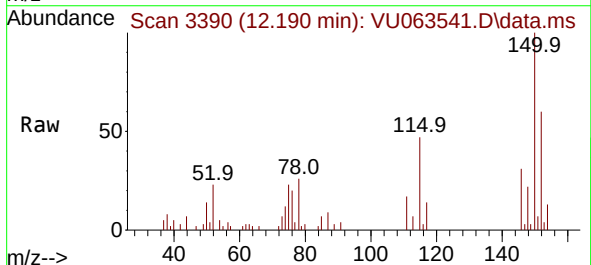
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

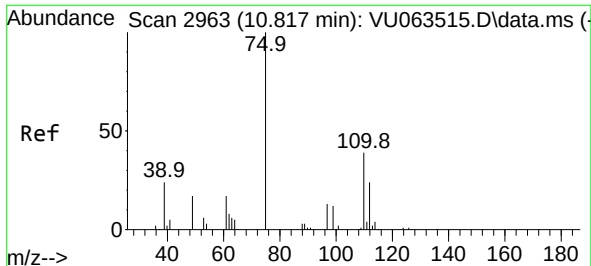
Tgt Ion:104 Resp: 6942
Ion Ratio Lower Upper
104 100
78 86.7 41.3 61.9#
103 85.3 43.6 65.4#



#68
1,2-Dichlorobenzene-d4
Concen: 1.024 ug/l
RT: 12.190 min Scan# 3390
Delta R.T. 0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion:152 Resp: 5884
Ion Ratio Lower Upper
152 100
115 74.1 0.0 262.2
150 184.5 0.0 651.2

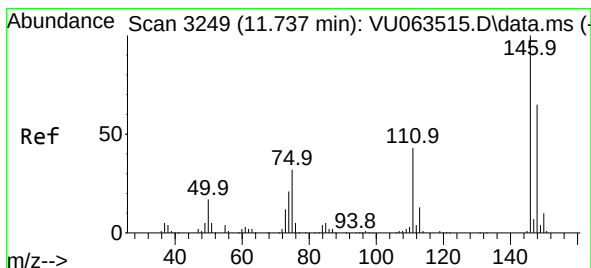
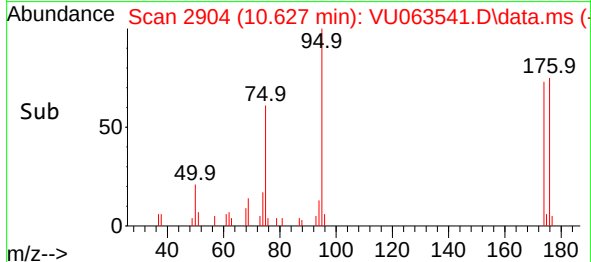
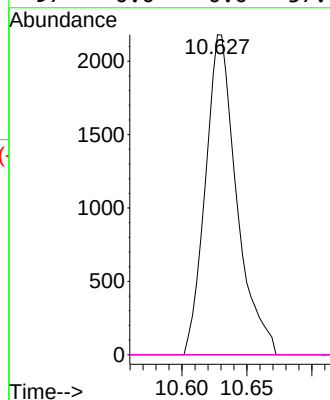
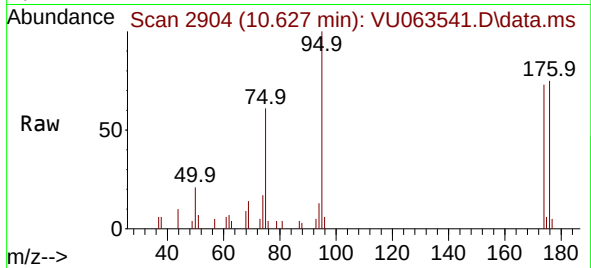




#71
1,2,3-Trichloropropane
Concen: 1.171 ug/l
RT: 10.627 min Scan# 2963
Delta R.T. -0.190 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

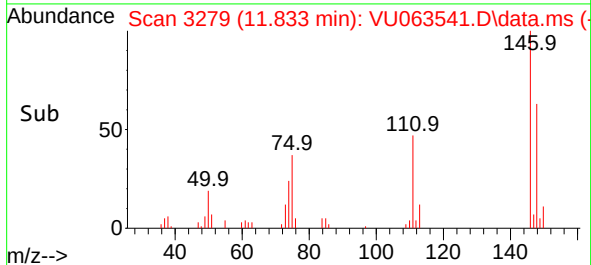
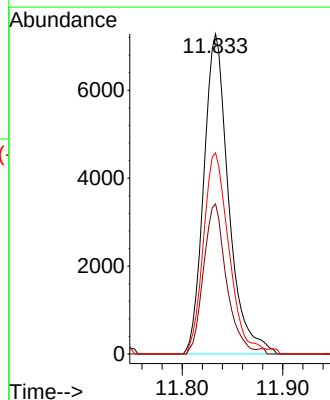
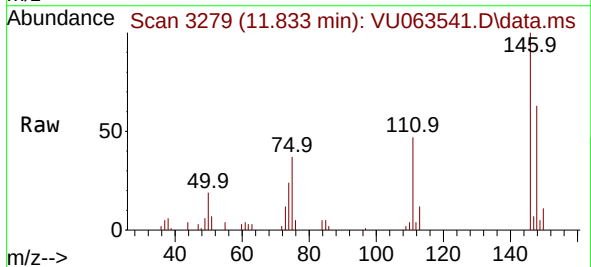
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

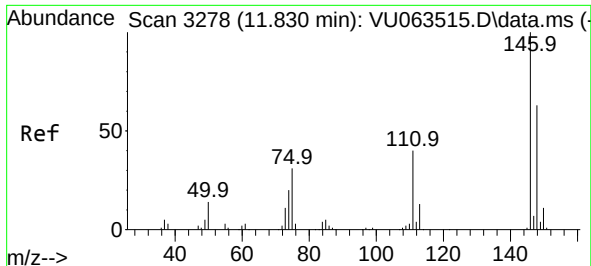
Tgt Ion: 75	Resp:	3651	
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	0.0	0.0	73.2
97	0.0	0.0	37.6



#82
1,3-Dichlorobenzene
Concen: 1.285 ug/l
RT: 11.833 min Scan# 3279
Delta R.T. 0.097 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion:146	Resp:	12497	
Ion	Ratio	Lower	Upper
146	100		
111	43.2	33.8	50.6
148	65.2	51.5	77.3

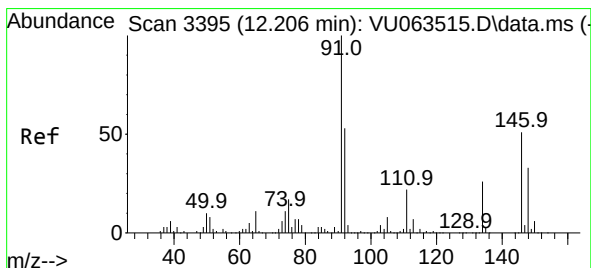
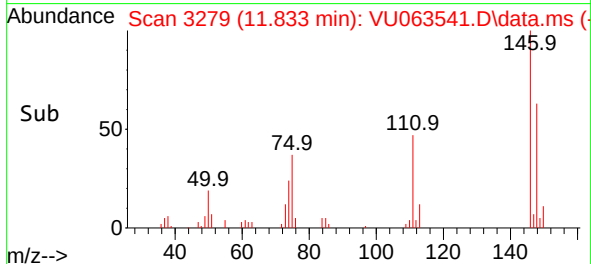
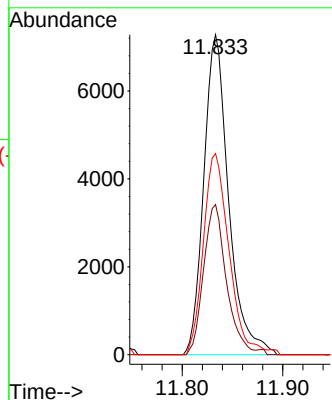
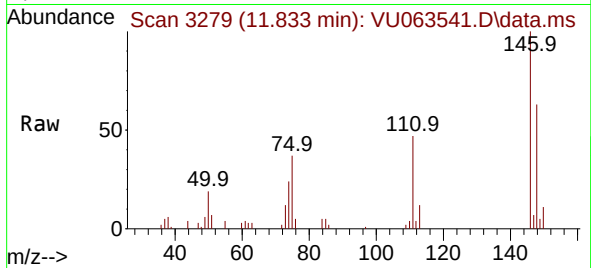




#83
1,4-Dichlorobenzene
Concen: 1.284 ug/l
RT: 11.833 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

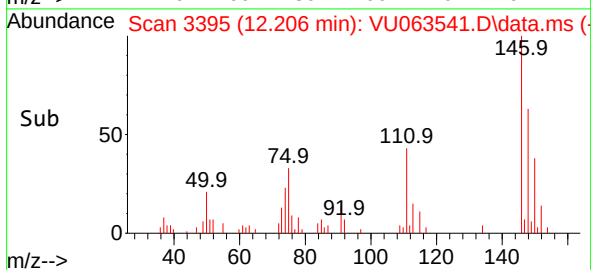
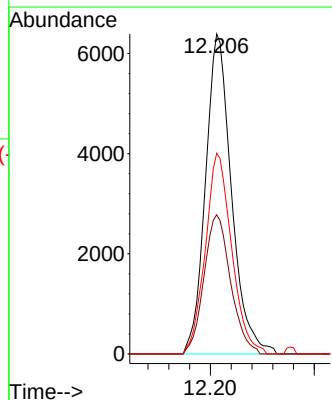
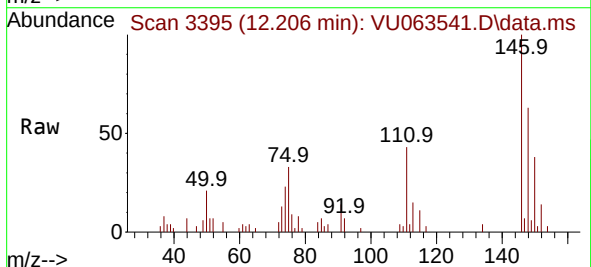
Instrument :
MSVOA_U
ClientSampleId :
WS0725-PT-RVOA-WSDL

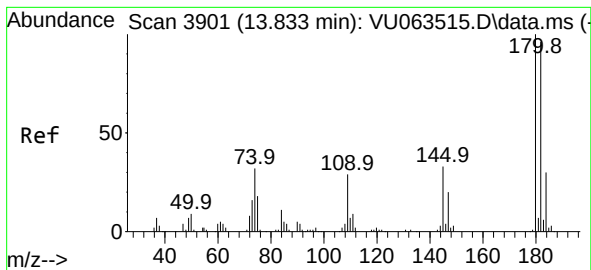
Tgt Ion:146 Resp: 12497
Ion Ratio Lower Upper
146 100
111 43.2 32.0 48.0
148 65.2 50.2 75.2



#85
1,2-Dichlorobenzene
Concen: 1.212 ug/l
RT: 12.206 min Scan# 3395
Delta R.T. 0.000 min
Lab File: VU063541.D
Acq: 18 Jul 2025 17:25

Tgt Ion:146 Resp: 11072
Ion Ratio Lower Upper
146 100
111 44.6 21.7 65.1
148 63.7 31.8 95.3





#87

1,2,4-Trichlorobenzene

Concen: 3.356 ug/l

RT: 13.836 min Scan# 3901

Delta R.T. 0.003 min

Lab File: VU063541.D

Acq: 18 Jul 2025 17:25

Instrument :

MSVOA_U

ClientSampleId :

WS0725-PT-RVOA-WSDL

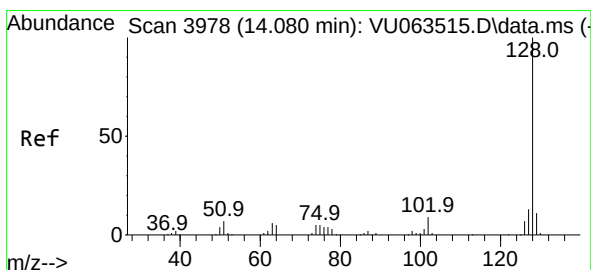
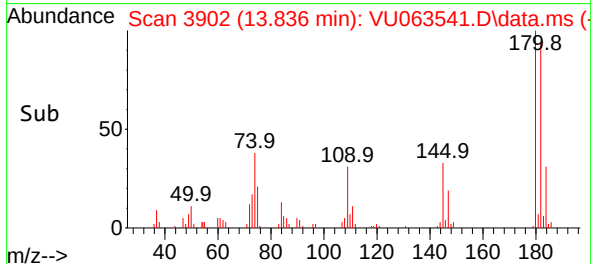
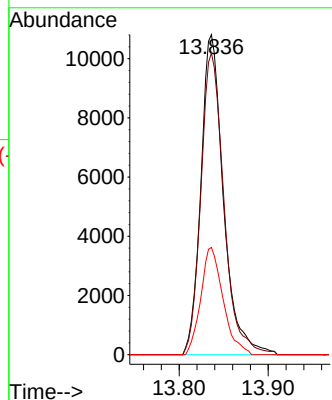
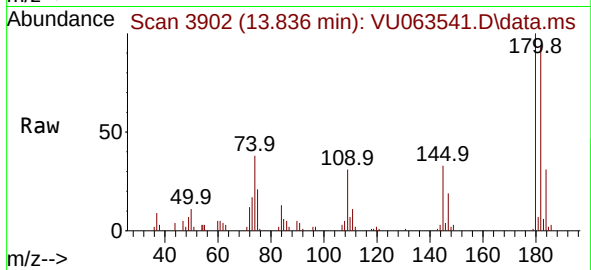
Tgt Ion:180 Resp: 19064

Ion Ratio Lower Upper

180 100

182 95.8 76.2 114.4

145 33.0 26.2 39.2



#89

Naphthalene

Concen: 0.432 ug/l

RT: 14.097 min Scan# 3983

Delta R.T. 0.017 min

Lab File: VU063541.D

Acq: 18 Jul 2025 17:25

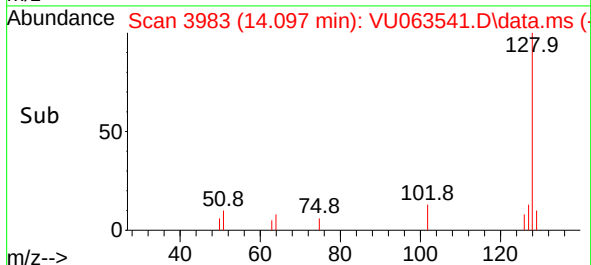
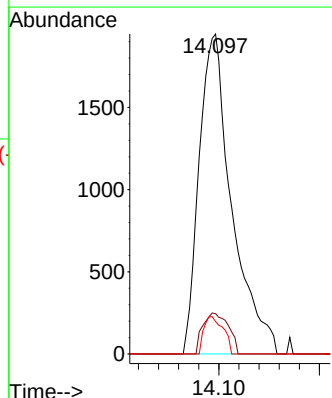
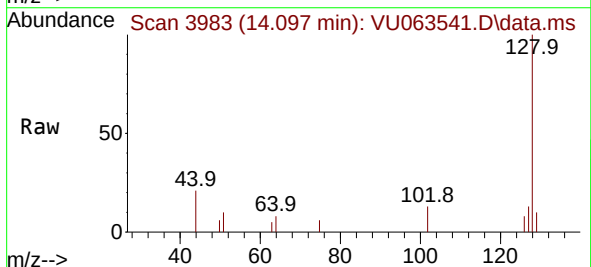
Tgt Ion:128 Resp: 4396

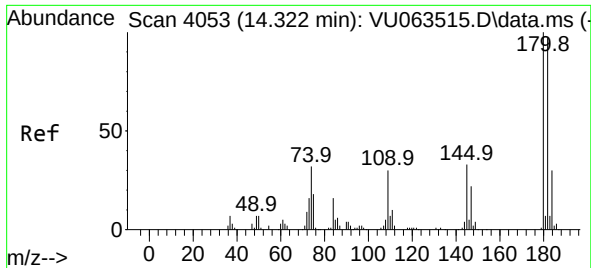
Ion Ratio Lower Upper

128 100

127 10.0 10.2 15.4#

129 6.9 8.8 13.2#





#90
 1,2,3-Trichlorobenzene
 Concen: 0.429 ug/l
 RT: 14.328 min Scan# 4053
 Delta R.T. 0.007 min
 Lab File: VU063541.D
 Acq: 18 Jul 2025 17:25

Instrument :
 MSVOA_U
 ClientSampleId :
 WS0725-PT-RVOA-WSDL

Tgt Ion:180 Resp: 2251
 Ion Ratio Lower Upper
 180 100
 182 107.8 78.0 117.0
 145 35.6 27.3 40.9

