

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102725\
 Data File : VT019187.D
 Acq On : 27 Oct 2025 9:39
 Operator : SY/MD
 Sample : VT1027WBL02
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VT1027WBL02

Quant Time: Oct 28 05:53:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 06:05:07 2025
 Response via : Initial Calibration

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

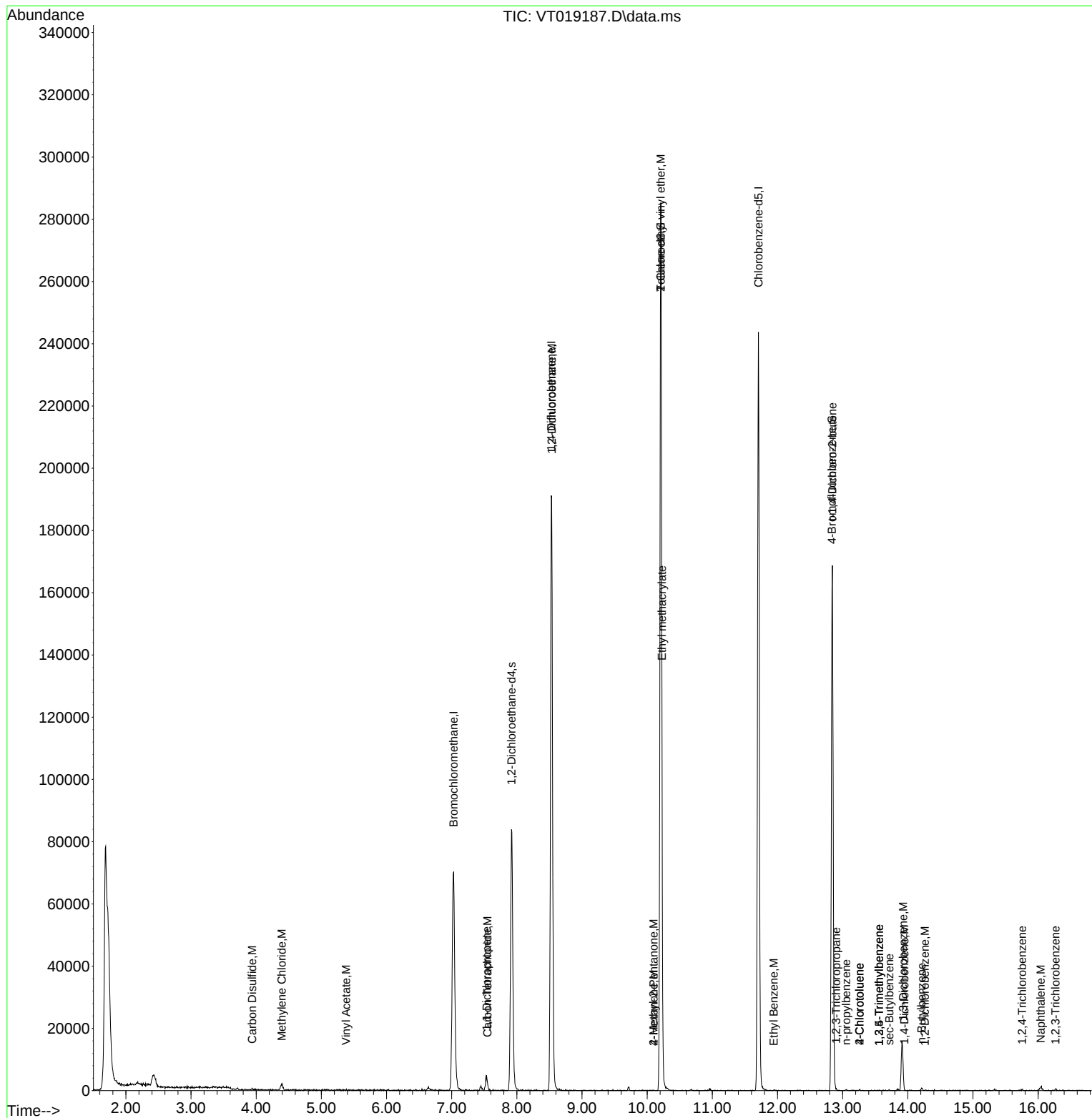
Internal Standards						
1) Bromochloromethane	7.030	128	25840	30.000	ug/l	#-0.05
28) 1,4-Difluorobenzene	8.529	114	174941	30.000	ug/l	-0.05
57) Chlorobenzene-d5	11.707	117	143098	30.000	ug/l	-0.05
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.918	65	70568	31.172	ug/l	-0.05
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.900%
60) 4-Bromofluorobenzene	12.835	95	61875	27.512	ug/l	-0.05
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.700%
63) Toluene-d8	10.209	98	203568	29.227	ug/l	-0.05
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.433%
Target Compounds						Qvalue
16) Carbon Disulfide	3.940	76	216	0.100	ug/l #	75
18) Methylene Chloride	4.392	84	1004	0.580	ug/l #	54
29) 1,1-Dichloropropene	7.536	75	188	0.103	ug/l #	41
33) Carbon Tetrachloride	7.547	117	64	0.043	ug/l #	3
36) 1,2-Dichloroethane	8.535	62	6083	2.419	ug/l #	76
42) Vinyl Acetate	5.379	43	120	0.022	ug/l #	76
51) Ethyl methacrylate	10.227	69	163	0.054	ug/l #	36
55) 2-Chloroethyl vinyl ether	10.209	63	204	0.232	ug/l #	1
58) 4-Methyl-2-Pentanone	10.097	43	176	0.050	ug/l #	44
59) 2-Hexanone	10.097	43	176	0.050	ug/l #	34
66) Ethyl Benzene	11.942	91	139	0.020	ug/l #	43
72) 1,2,3-Trichloropropane	12.900	75	68	0.036	ug/l #	38
74) n-propylbenzene	13.053	91	601	0.076	ug/l #	54
75) 2-Chlorotoluene	13.259	91	410	0.085	ug/l #	43
76) 1,3,5-Trimethylbenzene	13.558	105	196	0.036	ug/l #	30
77) t-1,4-Dichloro-2-butene	12.841	75	36308	39.354	ug/l #	7
78) 4-Chlorotoluene	13.259	91	410	0.086	ug/l #	46
80) 1,2,4-Trimethylbenzene	13.558	105	196	0.035	ug/l #	32
81) sec-Butylbenzene	13.717	105	291	0.042	ug/l #	57
83) 1,3-Dichlorobenzene	13.928	146	315	0.104	ug/l #	39
84) 1,4-Dichlorobenzene	13.946	146	84	0.028	ug/l #	24
85) n-Butylbenzene	14.210	91	919	0.175	ug/l #	55
87) 1,2-Dichlorobenzene	14.263	146	207	0.069	ug/l #	24
89) 1,2,4-Trichlorobenzene	15.756	180	316	0.172	ug/l #	70
91) Naphthalene	16.038	128	2460	0.346	ug/l #	77
92) 1,2,3-Trichlorobenzene	16.267	180	253	0.136	ug/l #	76

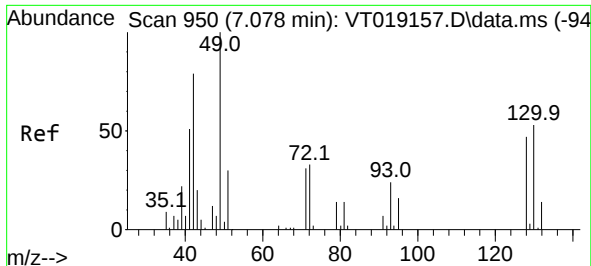
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 24 06:05:07 2025
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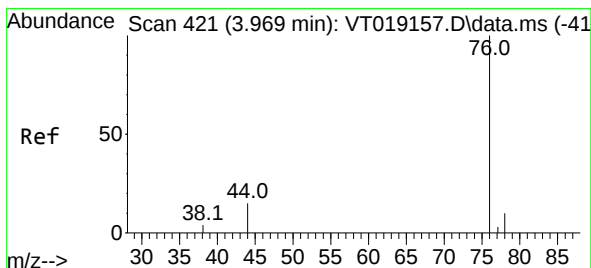
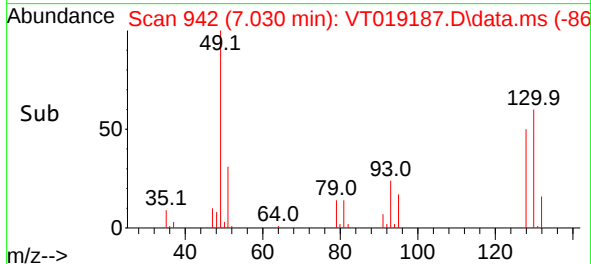
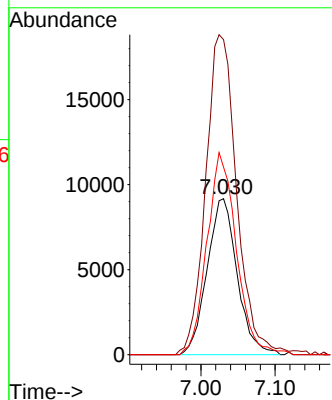
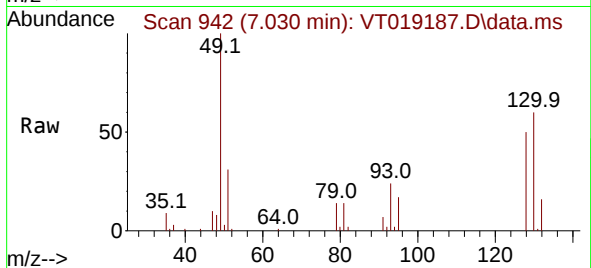




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.030 min Scan# 94
Delta R.T. -0.048 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

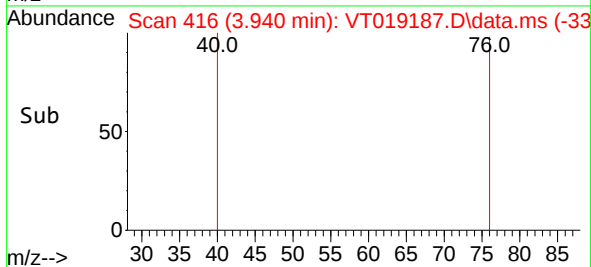
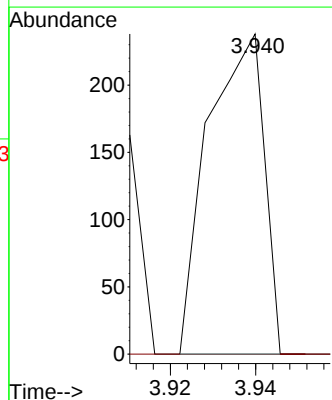
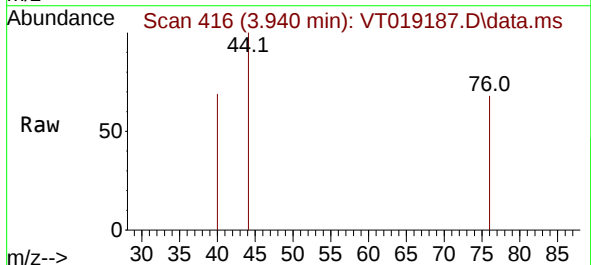
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

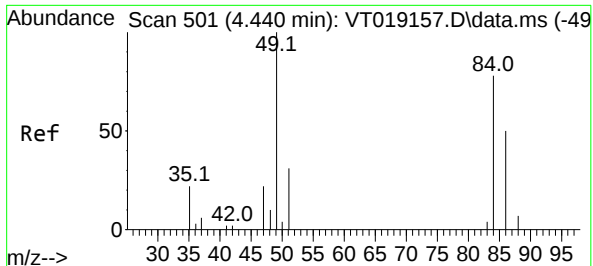
Tgt Ion:128 Resp: 25840
Ion Ratio Lower Upper
128 100
49 211.3 0.0 0.0#
130 126.3 0.0 0.0#



#16
Carbon Disulfide
Concen: 0.100 ug/l
RT: 3.940 min Scan# 416
Delta R.T. -0.024 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 76 Resp: 216
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

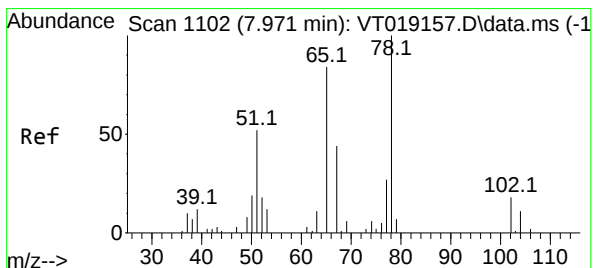
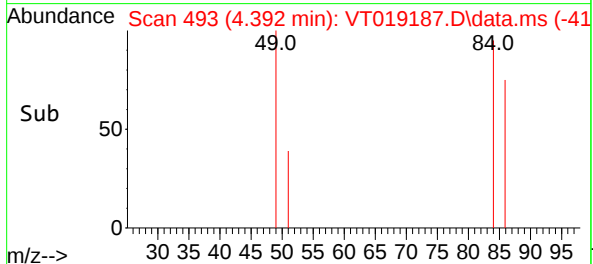
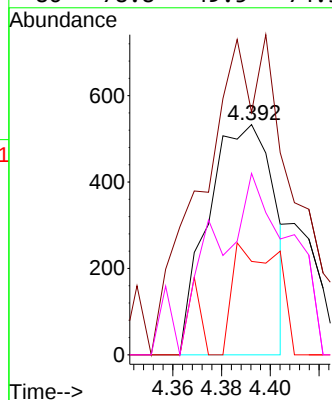
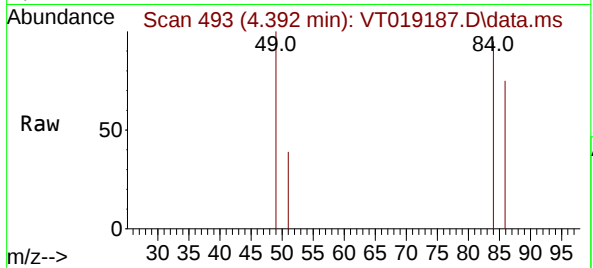




#18
Methylene Chloride
Concen: 0.580 ug/l
RT: 4.392 min Scan# 493
Delta R.T. -0.036 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

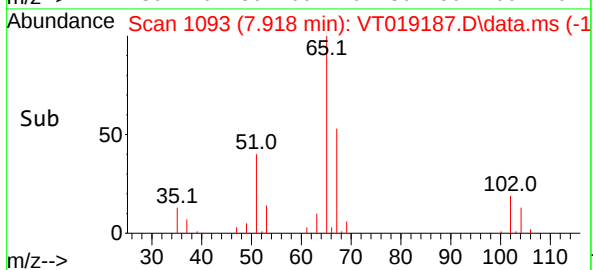
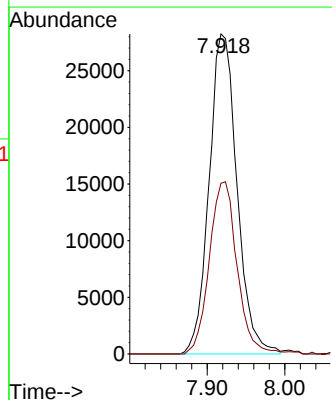
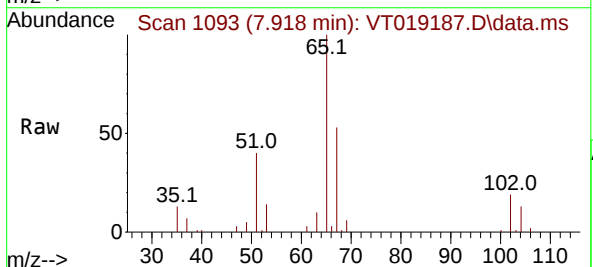
Instrument :
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ClientSampleId :
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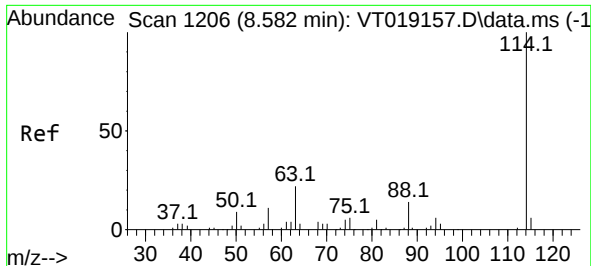
Tgt Ion: 84 Resp: 1004
Ion Ratio Lower Upper
84 100
49 49.7 107.9 161.9#
51 40.5 33.4 50.2
86 78.8 49.5 74.3#



#27
1,2-Dichloroethane-d4
Concen: 31.172 ug/l
RT: 7.918 min Scan# 1093
Delta R.T. -0.053 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 65 Resp: 70568
Ion Ratio Lower Upper
65 100
67 53.4 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.529 min Scan# 1197

Delta R.T. -0.047 min

Lab File: VT019187.D

Acq: 27 Oct 2025 9:39

Instrument :

MSVOA_T

ClientSampleId :

VT1027WBL02

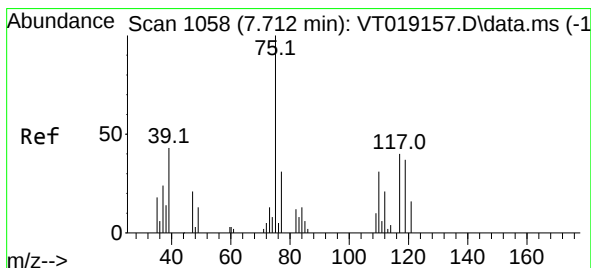
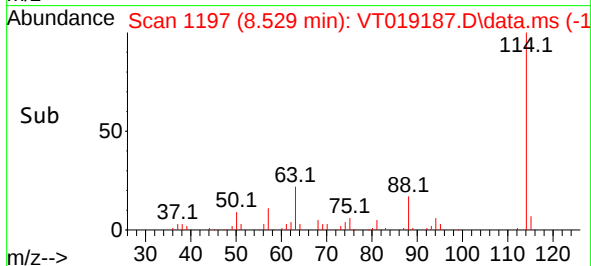
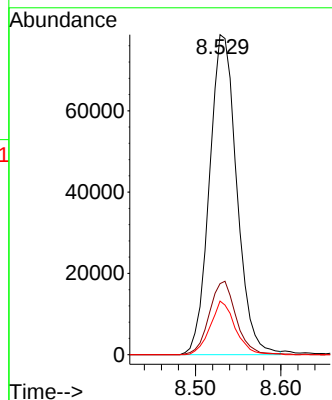
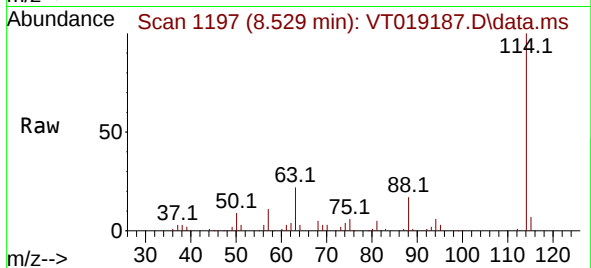
Tgt Ion:114 Resp: 174941

Ion Ratio Lower Upper

114 100

63 22.6 17.4 26.0

88 15.3 13.0 19.6



#29

1,1-Dichloropropene

Concen: 0.103 ug/l

RT: 7.536 min Scan# 1028

Delta R.T. -0.176 min

Lab File: VT019187.D

Acq: 27 Oct 2025 9:39

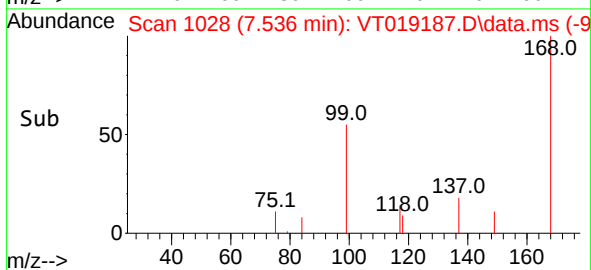
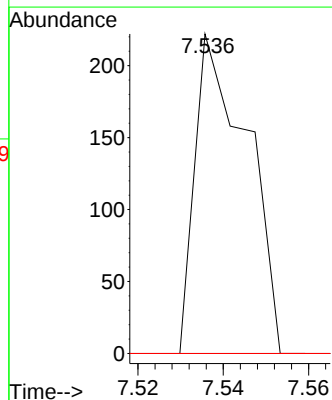
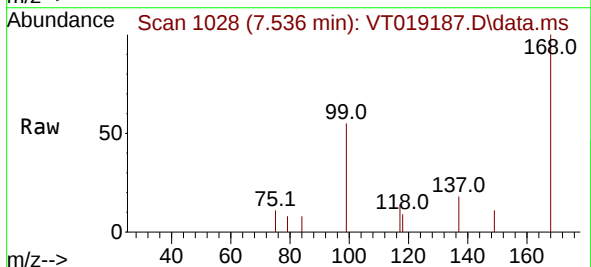
Tgt Ion: 75 Resp: 188

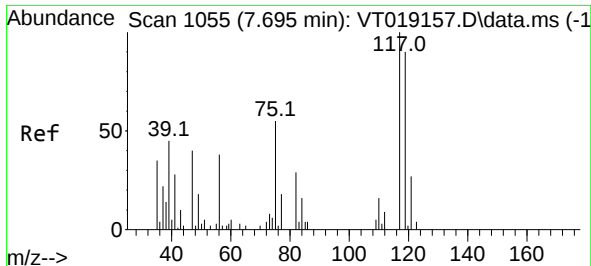
Ion Ratio Lower Upper

75 100

110 0.0 0.0 70.8

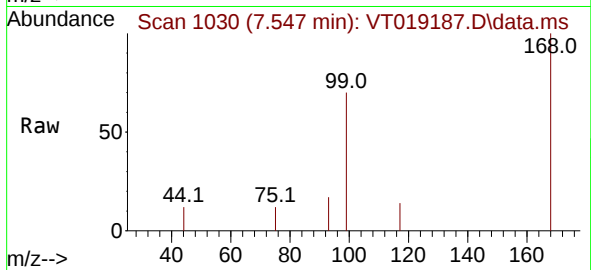
77 0.0 0.0 61.6



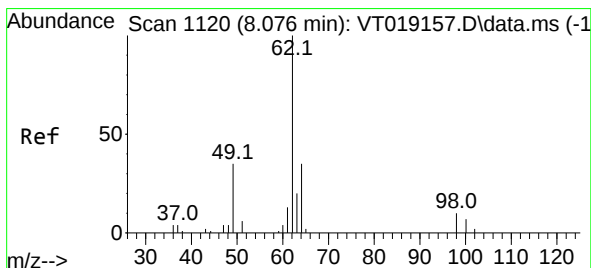
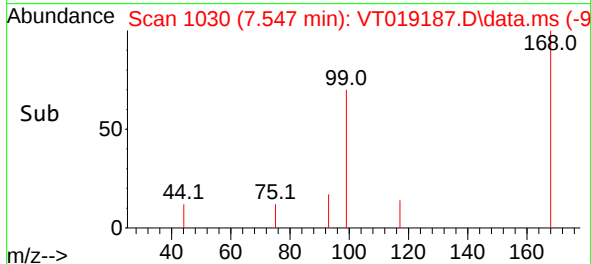
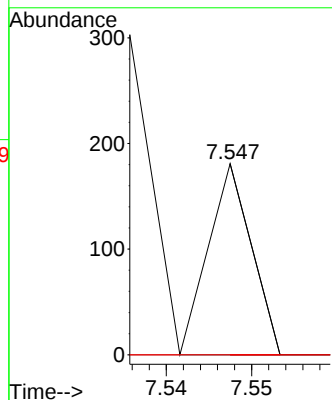


#33
Carbon Tetrachloride
Concen: 0.043 ug/l
RT: 7.547 min Scan# 1198
Delta R.T. -0.148 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

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MSVOA_T
ClientSampleId :
VT1027WBL02

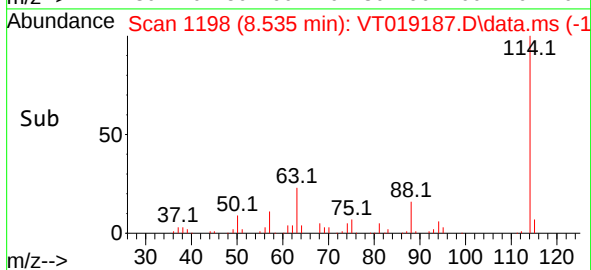
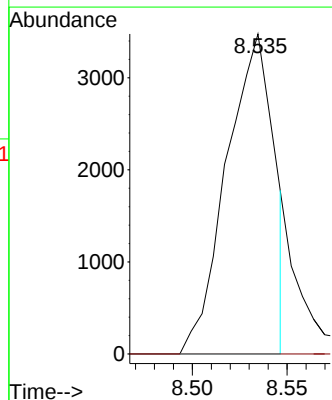
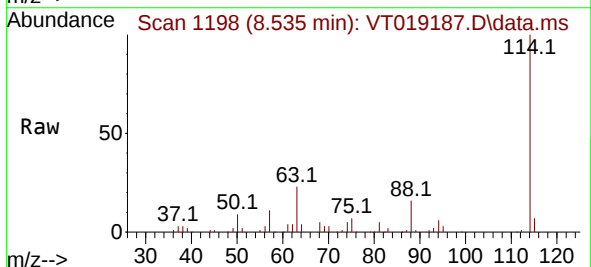


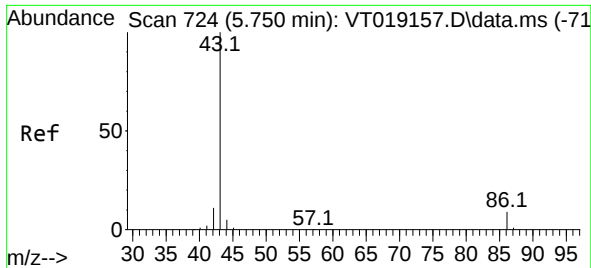
Tgt Ion:117 Resp: 64
Ion Ratio Lower Upper
117 100
119 0.0 76.5 114.7#
121 0.0 0.5 0.7#



#36
1,2-Dichloroethane
Concen: 2.419 ug/l
RT: 8.535 min Scan# 1198
Delta R.T. 0.464 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 62 Resp: 6083
Ion Ratio Lower Upper
62 100
98 0.0 6.7 10.1#

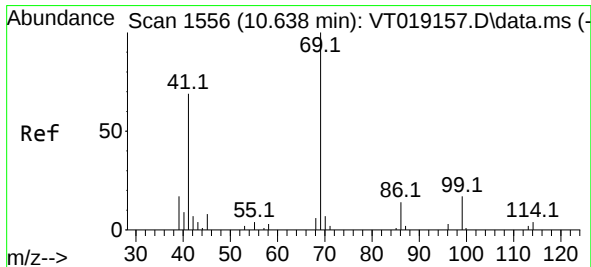
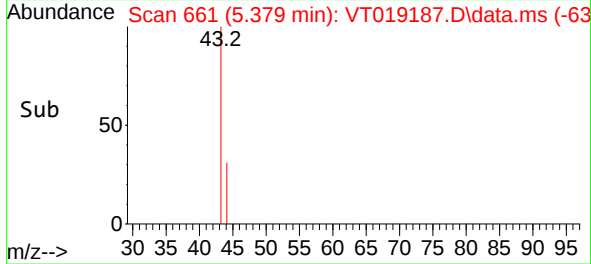
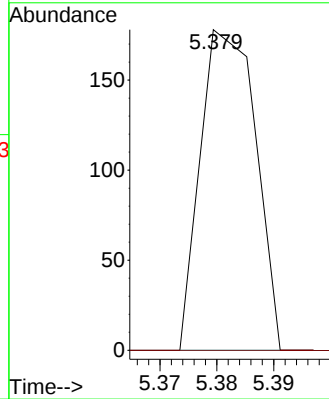
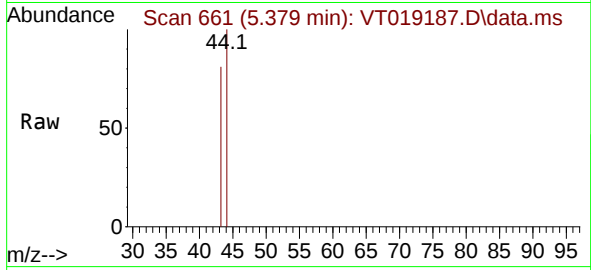




#42
 Vinyl Acetate
 Concen: 0.022 ug/l
 RT: 5.379 min Scan# 61
 Delta R.T. -0.371 min
 Lab File: VT019187.D
 Acq: 27 Oct 2025 9:39

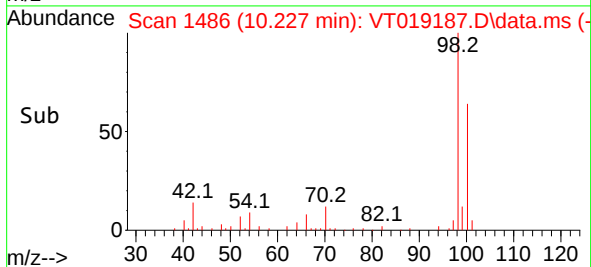
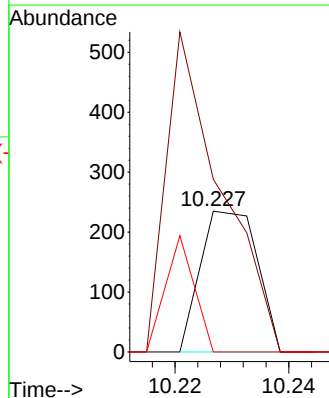
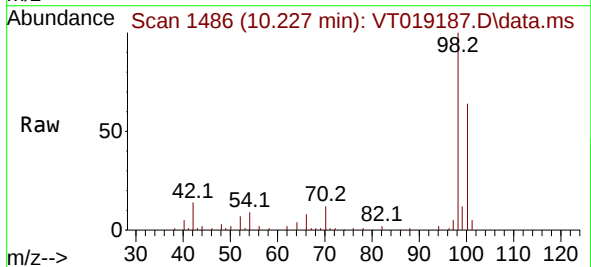
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 ClientSampleId :
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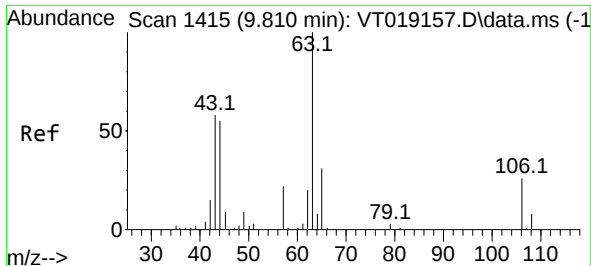
Tgt Ion: 43 Resp: 120
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.9 10.3#



#51
 Ethyl methacrylate
 Concen: 0.054 ug/l
 RT: 10.227 min Scan# 1486
 Delta R.T. -0.411 min
 Lab File: VT019187.D
 Acq: 27 Oct 2025 9:39

Tgt Ion: 69 Resp: 163
 Ion Ratio Lower Upper
 69 100
 41 122.6 35.0 105.1#
 39 0.0 19.5 58.5#

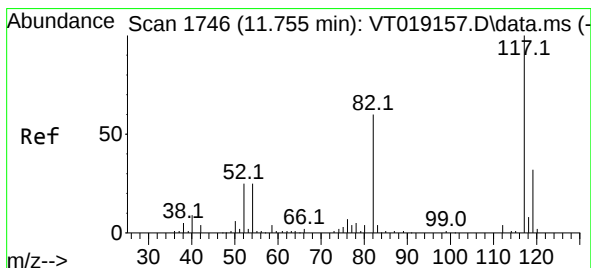
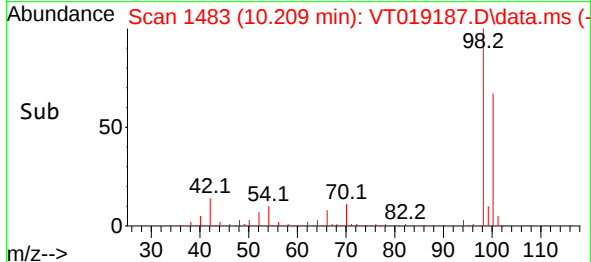
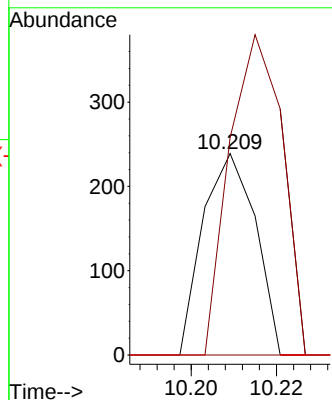
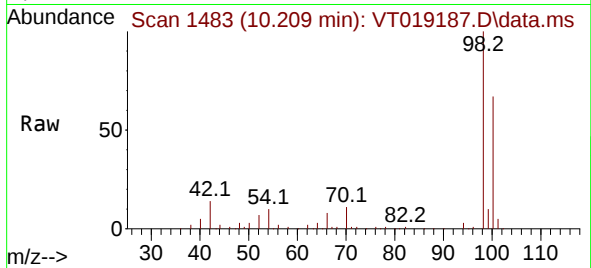




#55
2-Chloroethyl vinyl ether
Concen: 0.232 ug/l
RT: 10.209 min Scan# 1415
Delta R.T. 0.399 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

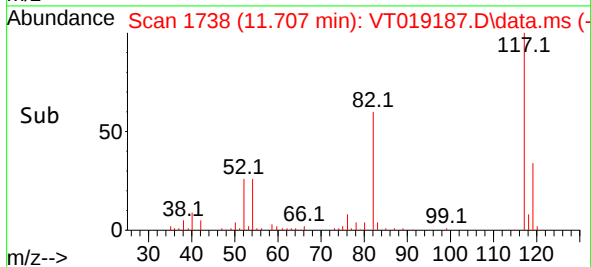
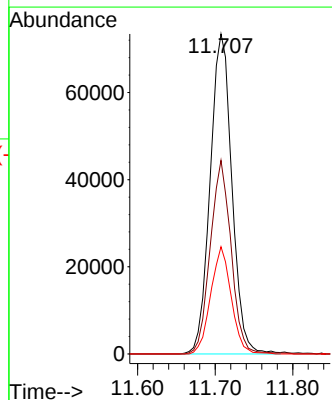
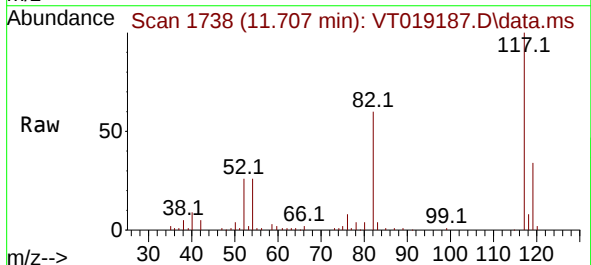
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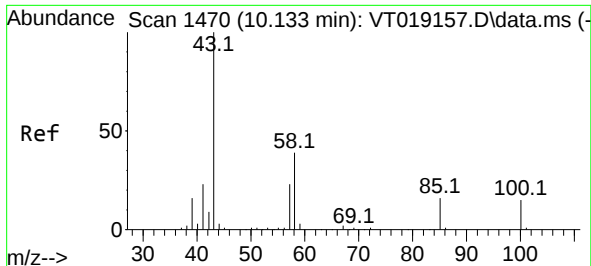
Tgt Ion: 63 Resp: 204
Ion Ratio Lower Upper
63 100
65 160.8 25.8 38.6#
106 0.0 22.1 33.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.707 min Scan# 1738
Delta R.T. -0.048 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 117 Resp: 143098
Ion Ratio Lower Upper
117 100
82 58.0 46.0 69.0
119 31.6 25.8 38.8

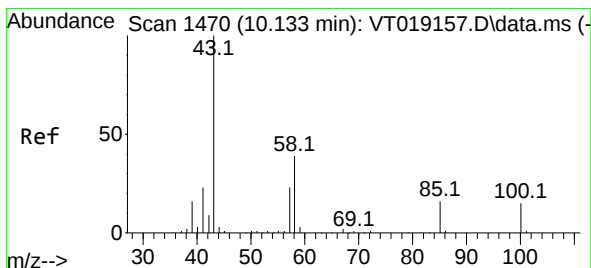
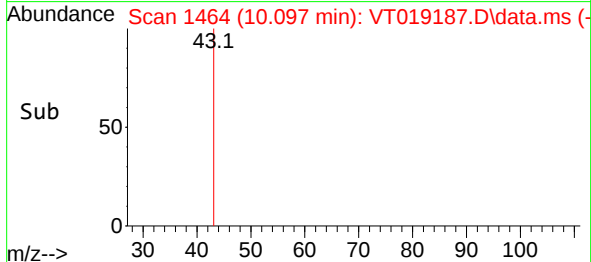
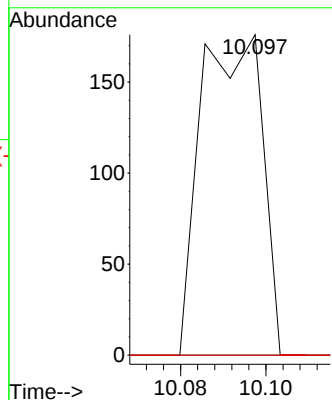
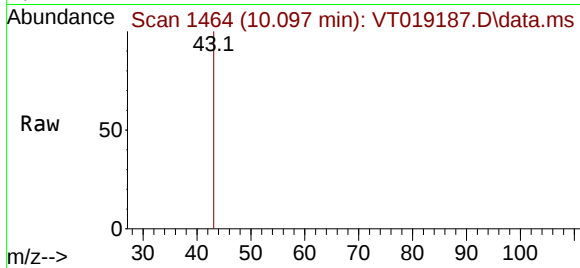




#58
4-Methyl-2-Pentanone
Concen: 0.050 ug/l
RT: 10.097 min Scan# 1464
Delta R.T. -0.042 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

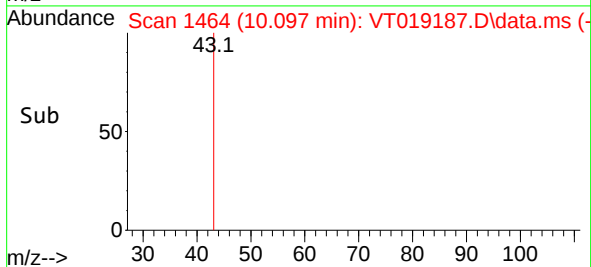
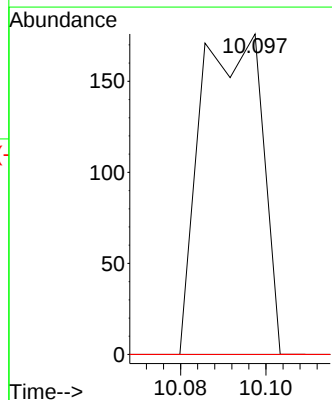
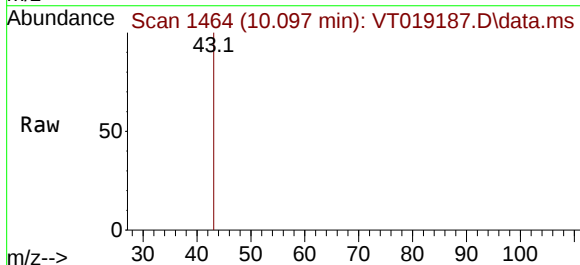
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

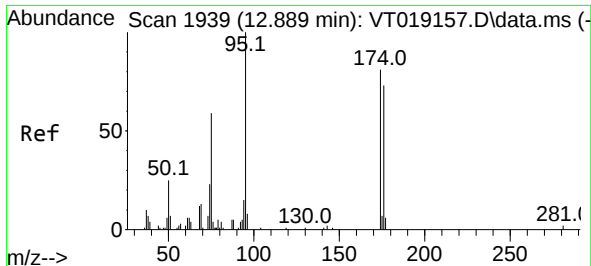
Tgt Ion: 43 Resp: 176
Ion Ratio Lower Upper
43 100
58 0.0 30.6 45.8#
85 0.0 13.4 20.2#



#59
2-Hexanone
Concen: 0.050 ug/l
RT: 10.097 min Scan# 1464
Delta R.T. -0.042 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 43 Resp: 176
Ion Ratio Lower Upper
43 100
58 0.0 42.0 63.0#
57 0.0 14.6 21.8#

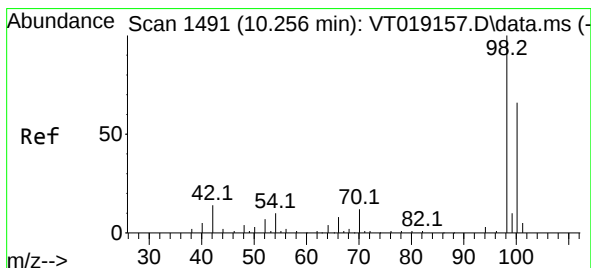
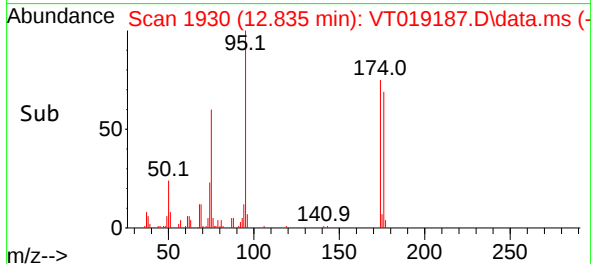
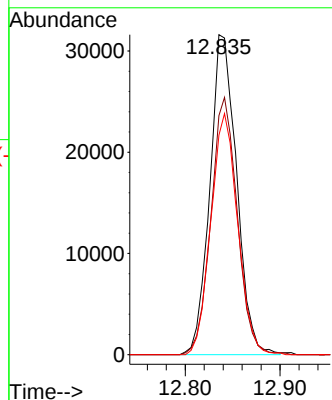
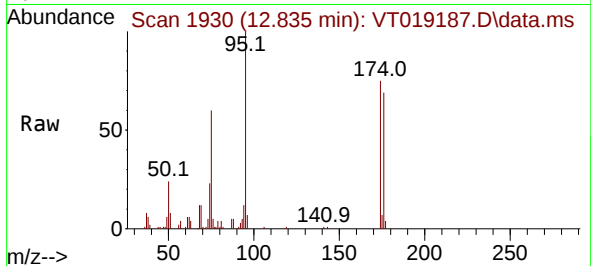




#60
4-Bromofluorobenzene
Concen: 27.512 ug/l
RT: 12.835 min Scan# 1483
Delta R.T. -0.054 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

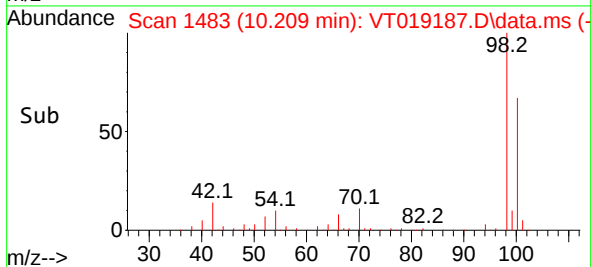
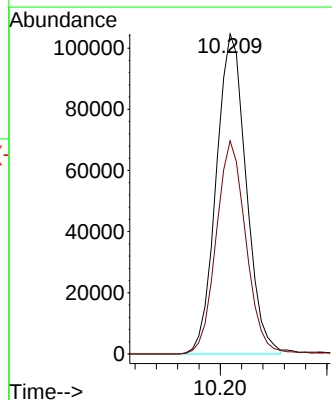
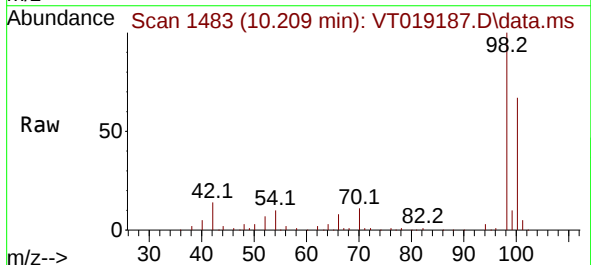
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

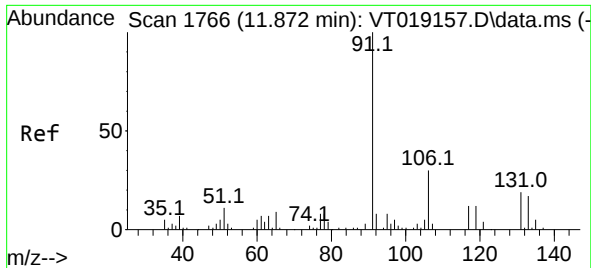
Tgt Ion: 95	Resp: 61875
Ion Ratio	Lower Upper
95 100	
174 79.0	57.5 86.3
176 75.7	56.4 84.6



#63
Toluene-d8
Concen: 29.227 ug/l
RT: 10.209 min Scan# 1483
Delta R.T. -0.047 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 98	Resp: 203568
Ion Ratio	Lower Upper
98 100	
100 66.3	52.9 79.3

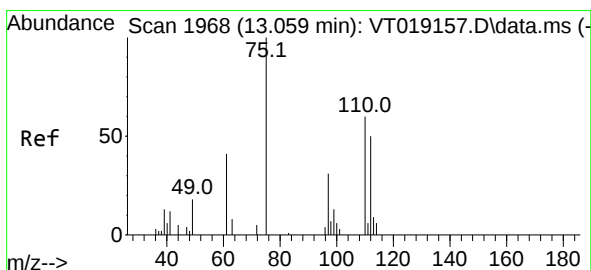
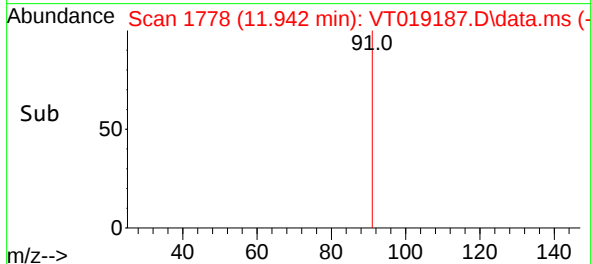
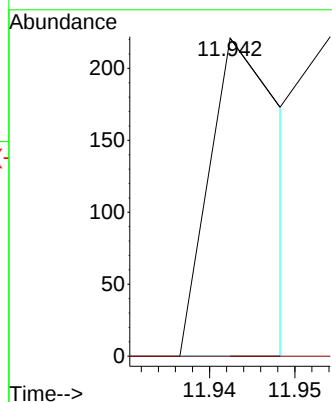
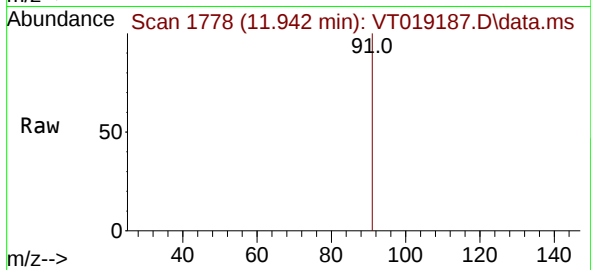




#66
Ethyl Benzene
Concen: 0.020 ug/l
RT: 11.942 min Scan# 11
Delta R.T. 0.070 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

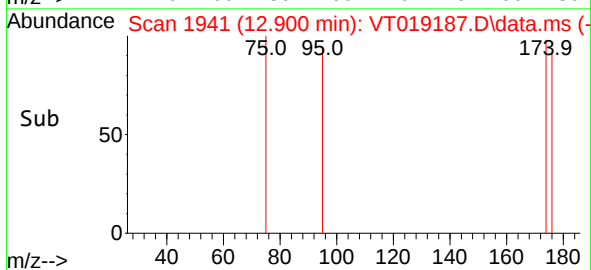
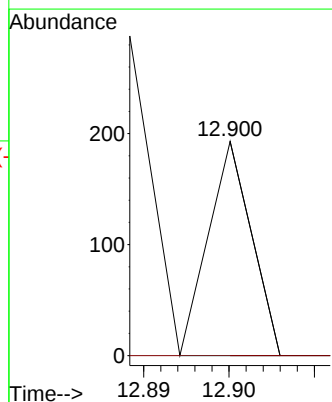
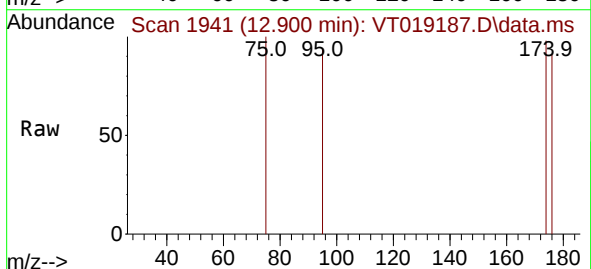
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

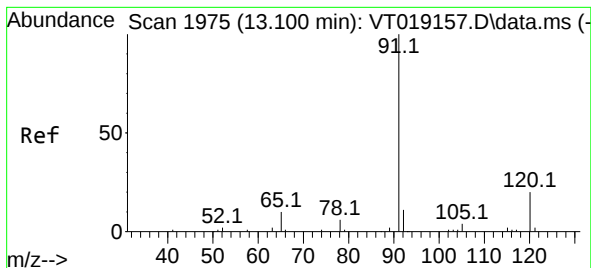
Tgt Ion: 91 Resp: 139
Ion Ratio Lower Upper
91 100
106 0.0 25.1 37.7#



#72
1,2,3-Trichloropropane
Concen: 0.036 ug/l
RT: 12.900 min Scan# 1941
Delta R.T. -0.159 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 75 Resp: 68
Ion Ratio Lower Upper
75 100
77 0.0 0.0 74.2

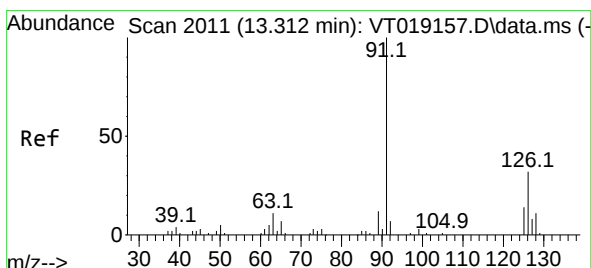
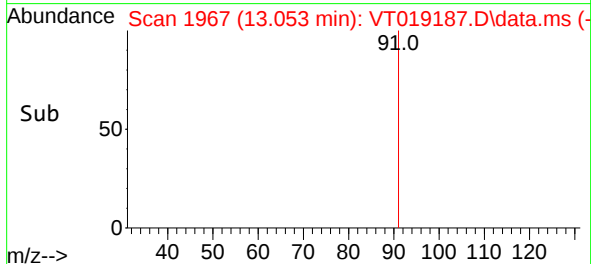
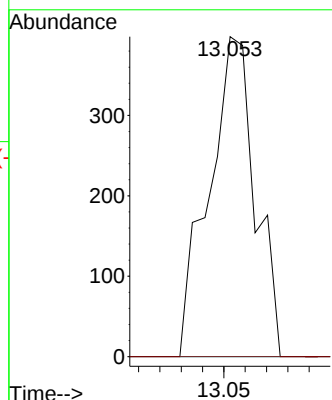
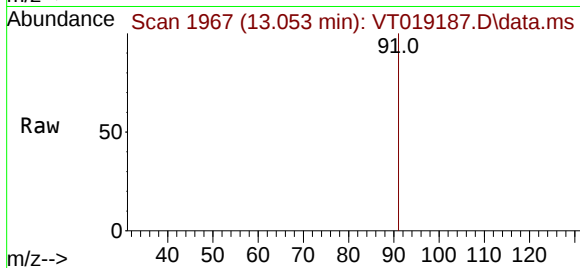




#74
n-propylbenzene
Concen: 0.076 ug/l
RT: 13.053 min Scan# 1967
Delta R.T. -0.047 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

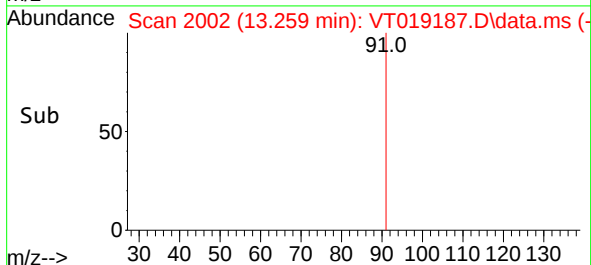
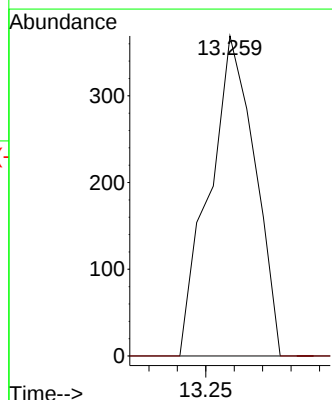
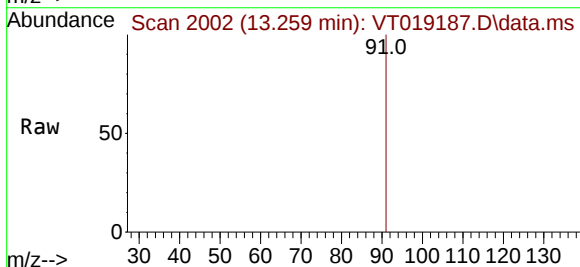
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

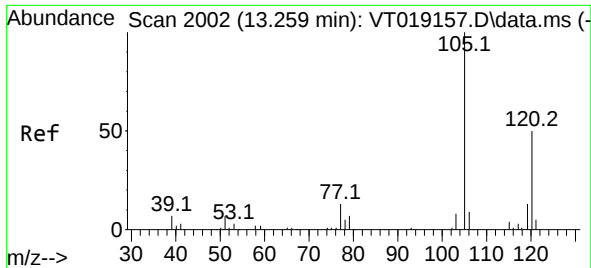
Tgt Ion: 91 Resp: 601
Ion Ratio Lower Upper
91 100
120 0.0 0.0 44.4



#75
2-Chlorotoluene
Concen: 0.085 ug/l
RT: 13.259 min Scan# 2002
Delta R.T. -0.053 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 91 Resp: 410
Ion Ratio Lower Upper
91 100
126 0.0 0.0 63.6

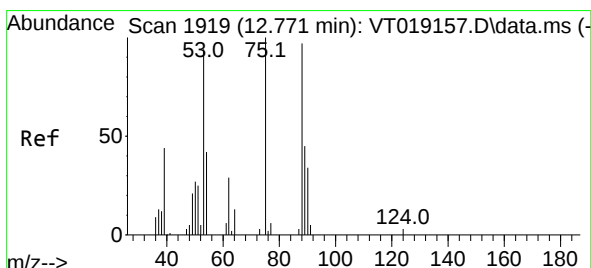
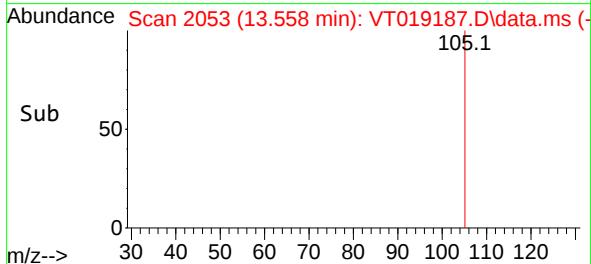
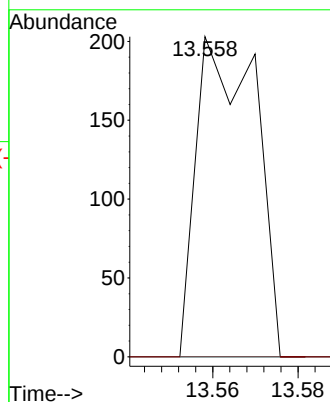
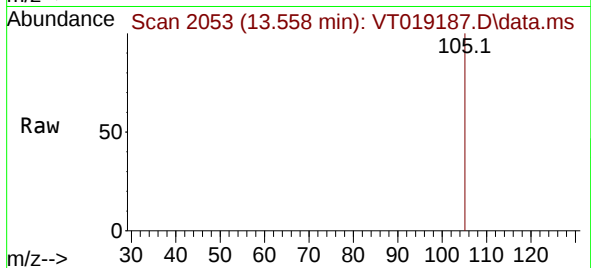




#76
1,3,5-Trimethylbenzene
Concen: 0.036 ug/l
RT: 13.558 min Scan# 2053
Delta R.T. 0.299 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

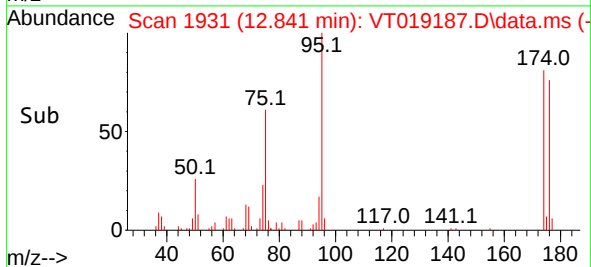
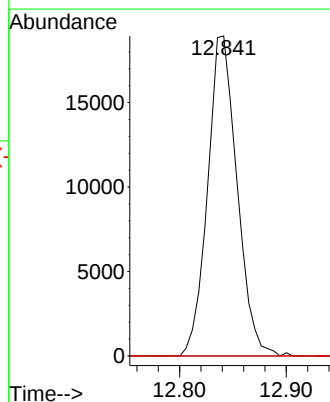
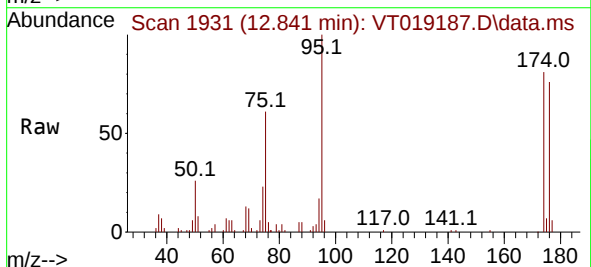
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

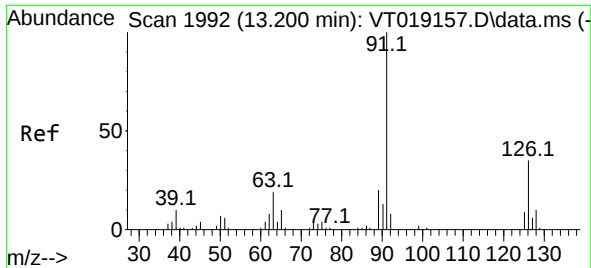
Tgt Ion:105 Resp: 196
Ion Ratio Lower Upper
105 100
120 0.0 0.0 93.0



#77
t-1,4-Dichloro-2-butene
Concen: 39.354 ug/l
RT: 12.841 min Scan# 1931
Delta R.T. 0.076 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 75 Resp: 36308
Ion Ratio Lower Upper
75 100
53 0.0 48.4 145.2#
89 0.0 33.8 101.3#

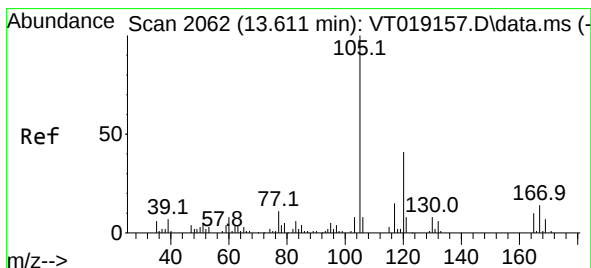
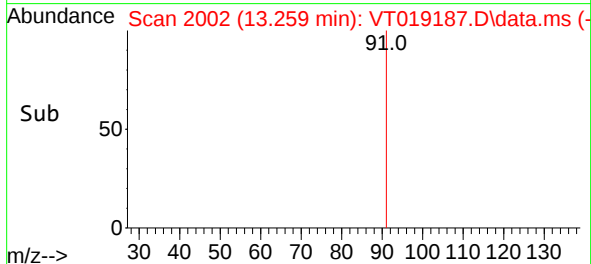
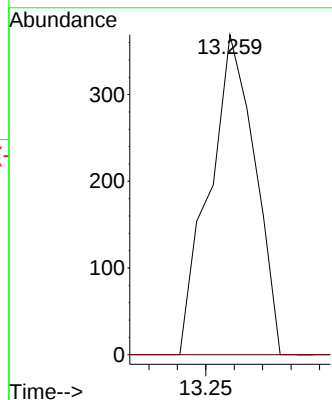
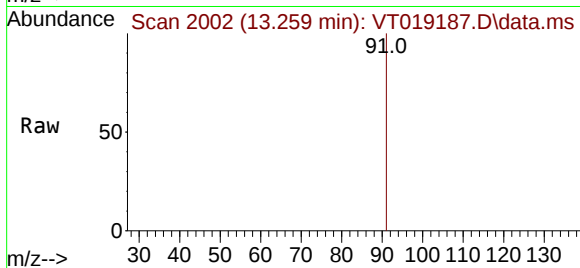




#78
4-Chlorotoluene
Concen: 0.086 ug/l
RT: 13.259 min Scan# 2002
Delta R.T. 0.059 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

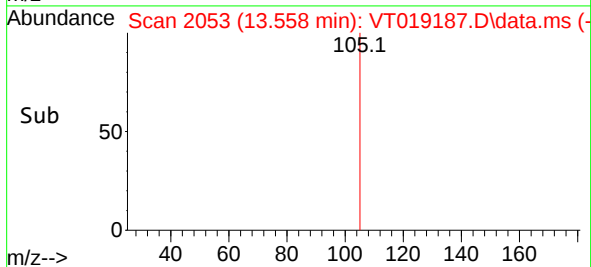
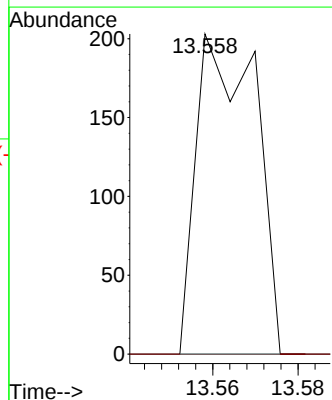
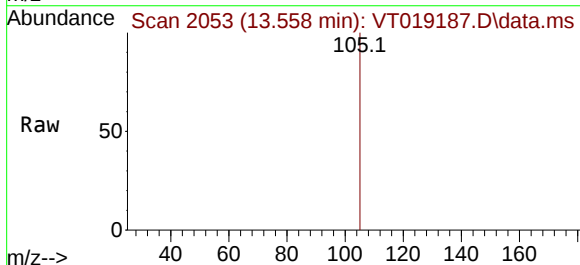
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

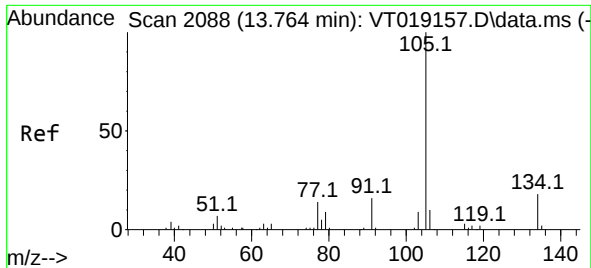
Tgt Ion: 91 Resp: 410
Ion Ratio Lower Upper
91 100
126 0.0 0.0 57.2



#80
1,2,4-Trimethylbenzene
Concen: 0.035 ug/l
RT: 13.558 min Scan# 2053
Delta R.T. -0.053 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion: 105 Resp: 196
Ion Ratio Lower Upper
105 100
120 0.0 0.0 88.6

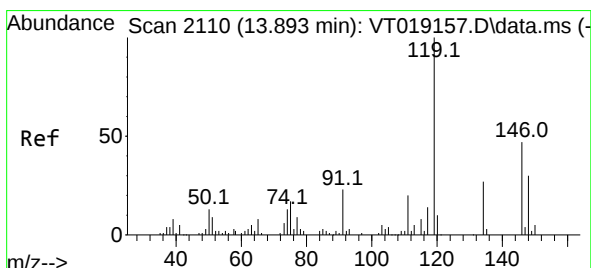
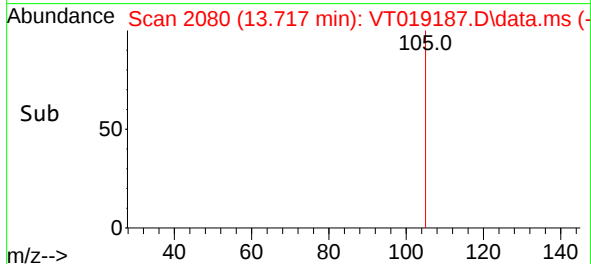
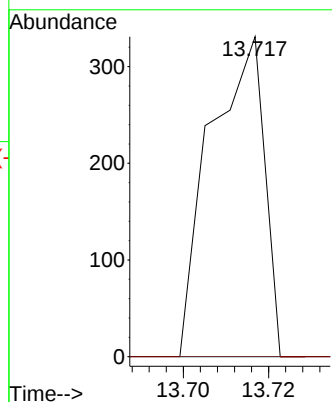
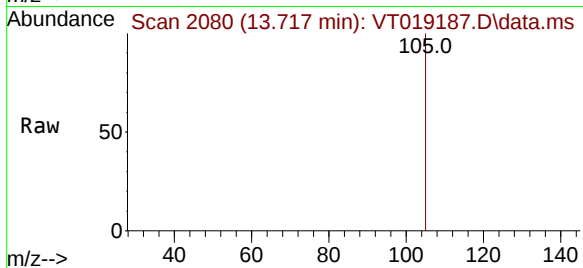




#81
 sec-Butylbenzene
 Concen: 0.042 ug/l
 RT: 13.717 min Scan# 2080
 Delta R.T. -0.047 min
 Lab File: VT019187.D
 Acq: 27 Oct 2025 9:39

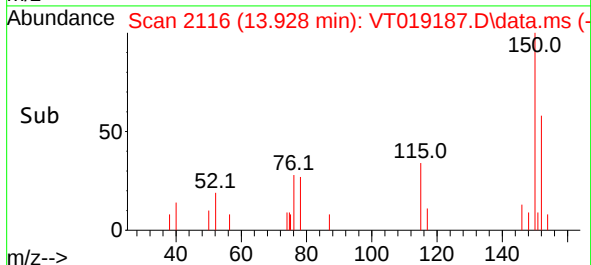
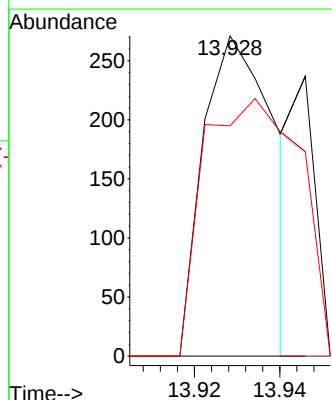
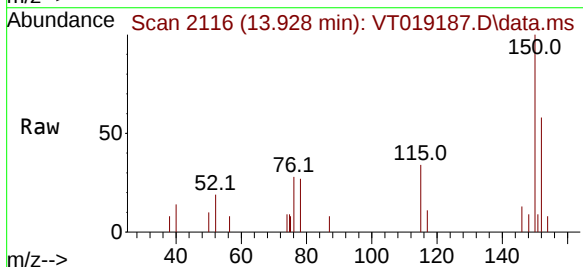
Instrument :
 MSVOA_T
 ClientSampleId :
 VT1027WBL02

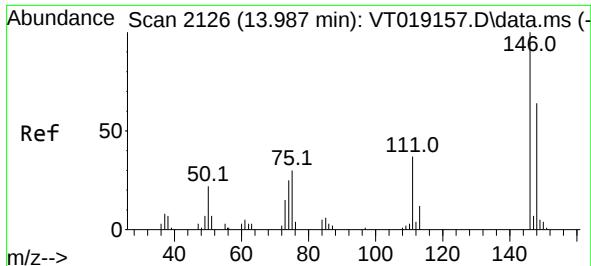
Tgt Ion:105 Resp: 291
 Ion Ratio Lower Upper
 105 100
 134 0.0 0.0 39.4



#83
 1,3-Dichlorobenzene
 Concen: 0.104 ug/l
 RT: 13.928 min Scan# 2116
 Delta R.T. 0.035 min
 Lab File: VT019187.D
 Acq: 27 Oct 2025 9:39

Tgt Ion:146 Resp: 315
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.7 62.1#
 148 108.9 31.8 95.3#

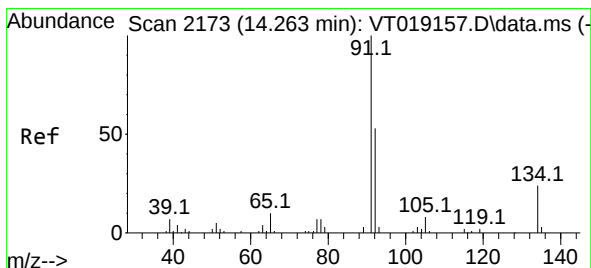
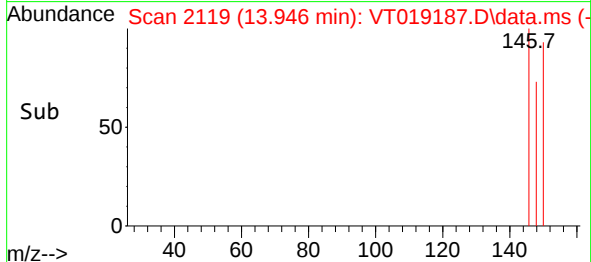
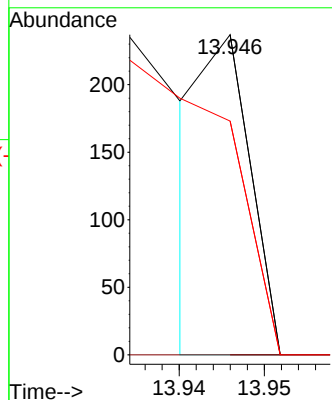
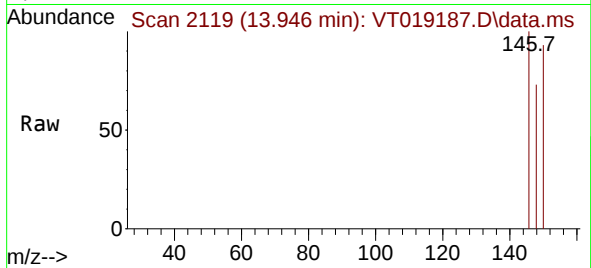




#84
1,4-Dichlorobenzene
Concen: 0.028 ug/l
RT: 13.946 min Scan# 2119
Delta R.T. -0.035 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

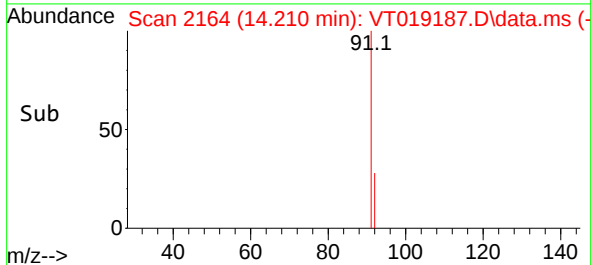
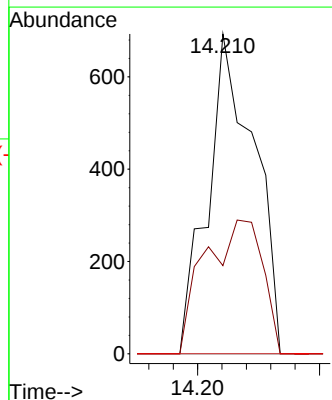
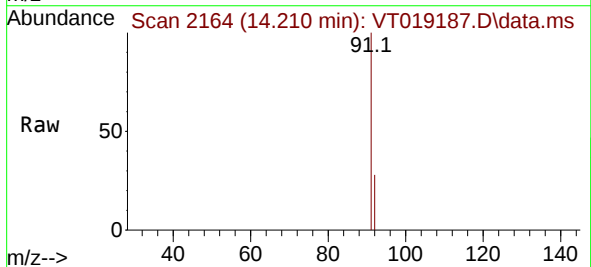
Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

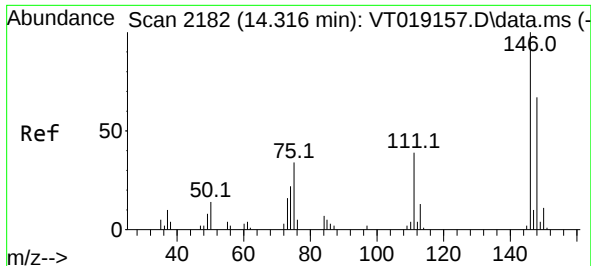
Tgt Ion:146 Resp: 84
Ion Ratio Lower Upper
146 100
111 0.0 20.4 61.3#
148 0.0 32.3 96.8#



#85
n-Butylbenzene
Concen: 0.175 ug/l
RT: 14.210 min Scan# 2164
Delta R.T. -0.053 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

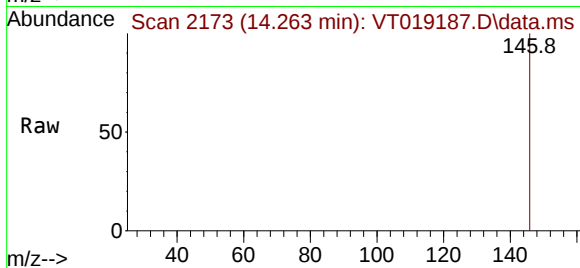
Tgt Ion: 91 Resp: 919
Ion Ratio Lower Upper
91 100
92 23.5 0.0 107.8
134 0.0 0.0 50.0



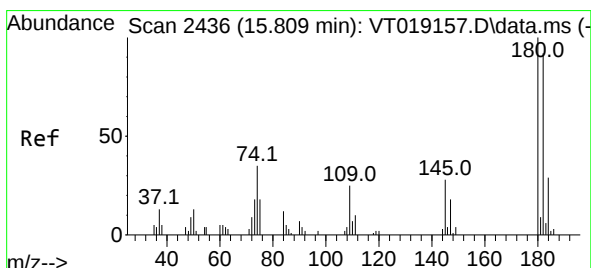
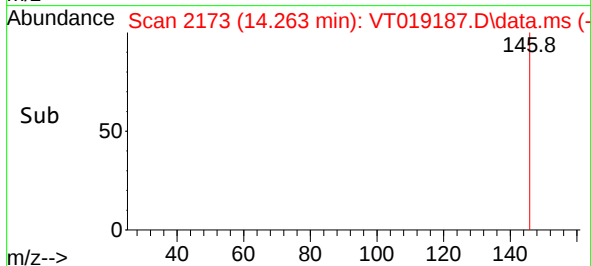
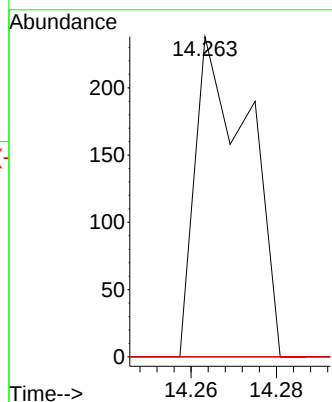


#87
1,2-Dichlorobenzene
Concen: 0.069 ug/l
RT: 14.263 min Scan# 2182
Delta R.T. -0.053 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Instrument :
MSVOA_T
ClientSampleId :
VT1027WBL02

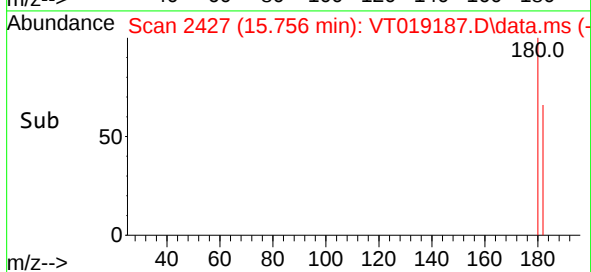
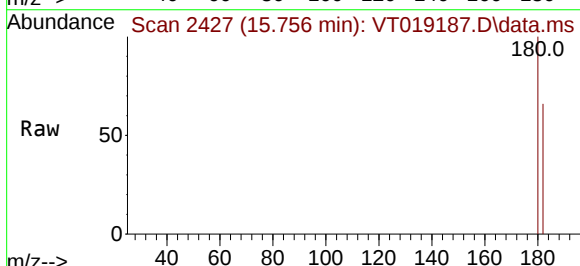
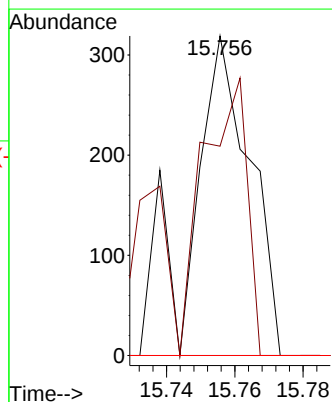


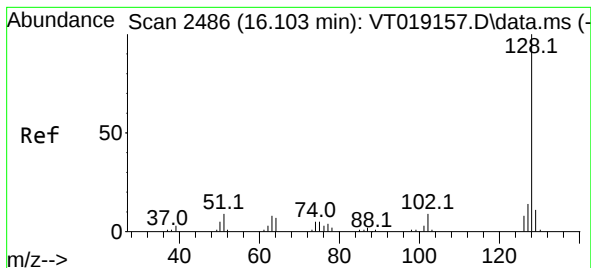
Tgt Ion:	146	Resp:	207
Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.8	65.3#
148	0.0	32.4	97.0#



#89
1,2,4-Trichlorobenzene
Concen: 0.172 ug/l
RT: 15.756 min Scan# 2427
Delta R.T. -0.053 min
Lab File: VT019187.D
Acq: 27 Oct 2025 9:39

Tgt Ion:	180	Resp:	316
Ion	Ratio	Lower	Upper
180	100		
182	77.8	78.2	117.2#
145	0.0	26.5	39.7#





#91

Naphthalene

Concen: 0.346 ug/l

RT: 16.038 min Scan# 2486

Delta R.T. -0.059 min

Lab File: VT019187.D

Acq: 27 Oct 2025 9:39

Instrument :

MSVOA_T

ClientSampleId :

VT1027WBL02

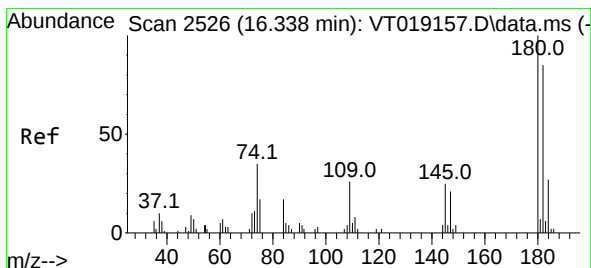
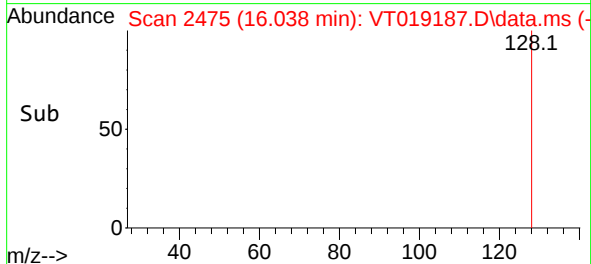
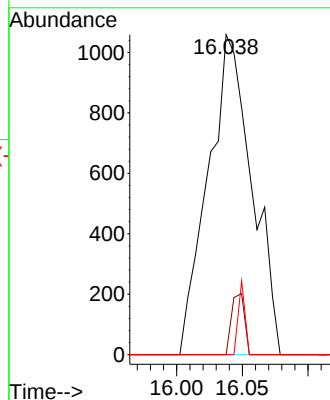
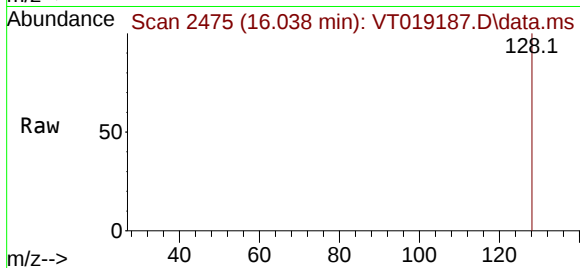
Tgt Ion:128 Resp: 2460

Ion Ratio Lower Upper

128 100

127 5.6 10.3 15.5#

129 0.0 9.0 13.4#



#92

1,2,3-Trichlorobenzene

Concen: 0.136 ug/l

RT: 16.267 min Scan# 2514

Delta R.T. -0.071 min

Lab File: VT019187.D

Acq: 27 Oct 2025 9:39

Tgt Ion:180 Resp: 253

Ion Ratio Lower Upper

180 100

182 83.4 0.0 189.0

145 0.0 0.0 69.2

