

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102325\
 Data File : VT019166.D
 Acq On : 23 Oct 2025 11:50
 Operator : SY/MD
 Sample : VT1023WBL01
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VT1023WBL01

Quant Time: Oct 24 06:41:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 06:37:52 2025
 Response via : Initial Calibration

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

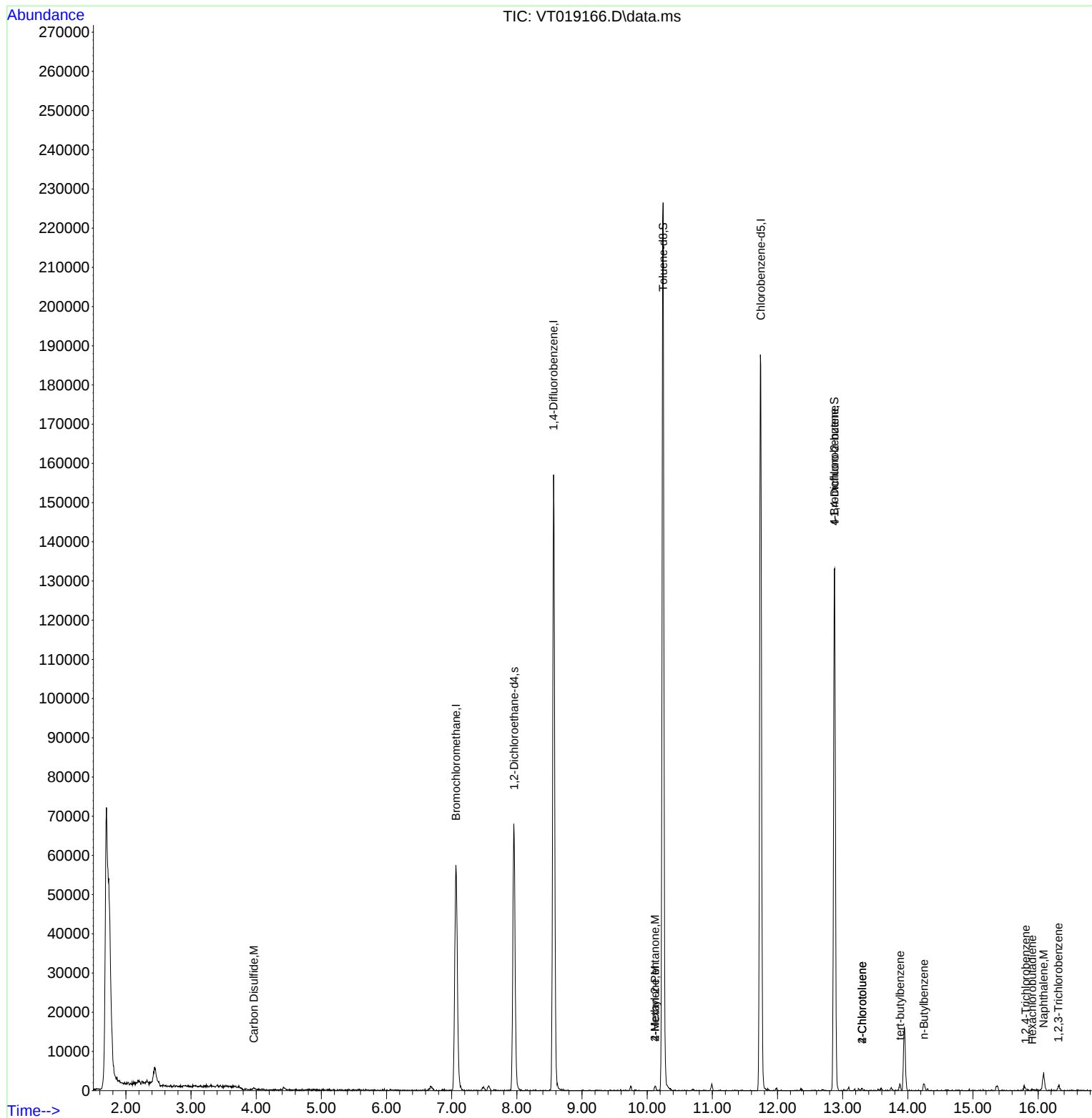
Internal Standards						
1) Bromochloromethane	7.066	128	20258	30.000	ug/l	#-0.01
28) 1,4-Difluorobenzene	8.564	114	140790	30.000	ug/l	-0.01
57) Chlorobenzene-d5	11.743	117	114298	30.000	ug/l	-0.01
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.959	65	58385	32.896	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 110	Recovery	= 109.667%	
60) 4-Bromofluorobenzene	12.871	95	50277	27.988	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	= 93.300%	
63) Toluene-d8	10.245	98	166305	29.894	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.633%	
Target Compounds						
					Qvalue	
16) Carbon Disulfide	3.964	76	513	0.302	ug/l #	75
58) 4-Methyl-2-Pentanone	10.121	43	1185	0.423	ug/l #	66
59) 2-Hexanone	10.121	43	1185	0.423	ug/l #	55
75) 2-Chlorotoluene	13.300	91	851	0.220	ug/l	78
77) t-1,4-Dichloro-2-butene	12.877	75	30322	41.147	ug/l #	7
78) 4-Chlorotoluene	13.300	91	851	0.223	ug/l	83
79) tert-butylbenzene	13.882	119	905	0.237	ug/l	51
85) n-Butylbenzene	14.246	91	1951	0.466	ug/l	86
89) 1,2,4-Trichlorobenzene	15.809	180	327	0.223	ug/l #	11
90) Hexachlorobutadiene	15.909	225	308	0.632	ug/l #	25
91) Naphthalene	16.085	128	6528	1.150	ug/l #	87
92) 1,2,3-Trichlorobenzene	16.308	180	655	0.442	ug/l #	34

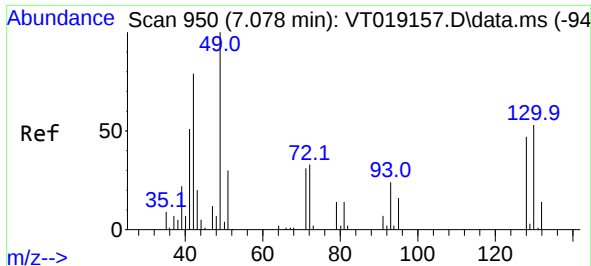
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 24 06:37:52 2025
Response via : Initial Calibration

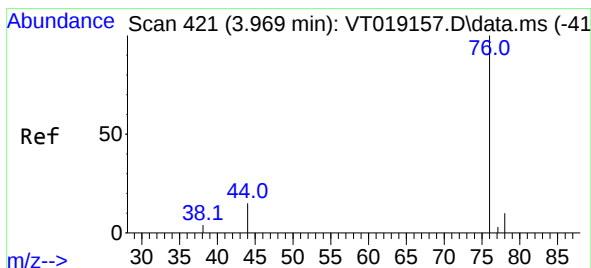
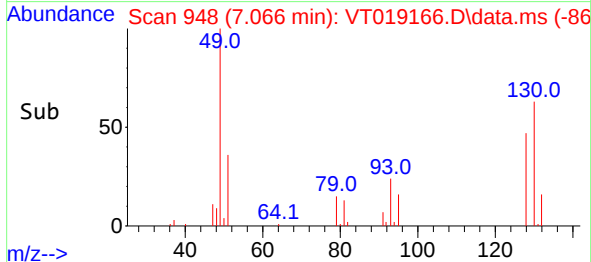
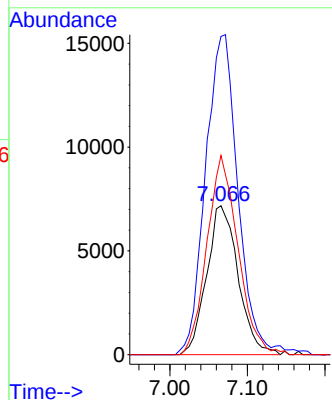
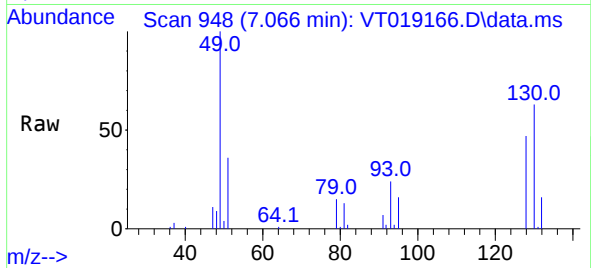




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.066 min Scan# 94
Delta R.T. -0.012 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

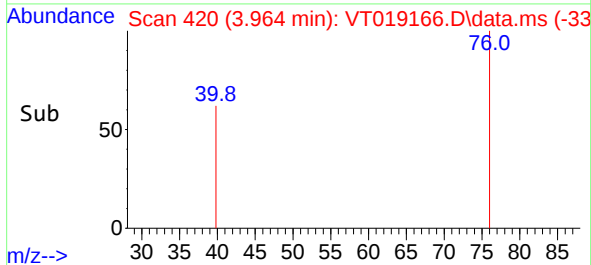
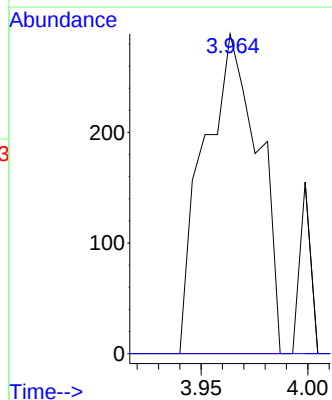
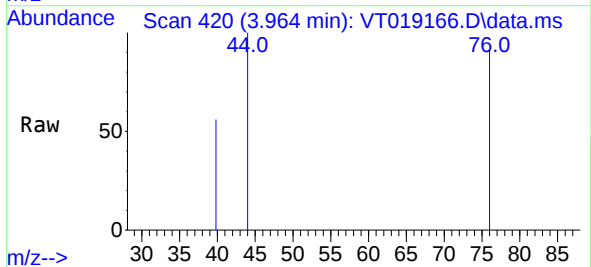
Instrument :
MSVOA_T
ClientSampleId :
VT1023WBL01

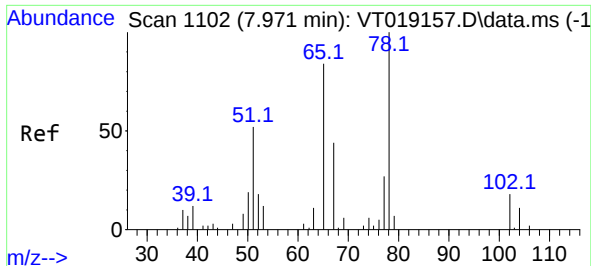
Tgt Ion:128 Resp: 20258
Ion Ratio Lower Upper
128 100
49 218.7 0.0 0.0#
130 132.3 0.0 0.0#



#16
Carbon Disulfide
Concen: 0.302 ug/l
RT: 3.964 min Scan# 420
Delta R.T. -0.000 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion: 76 Resp: 513
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

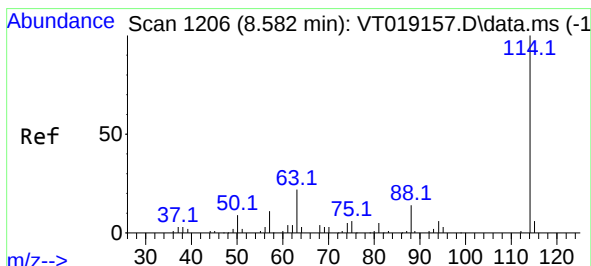
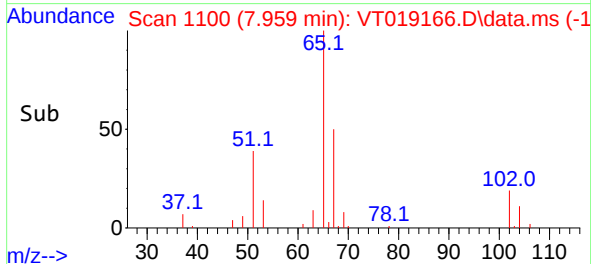
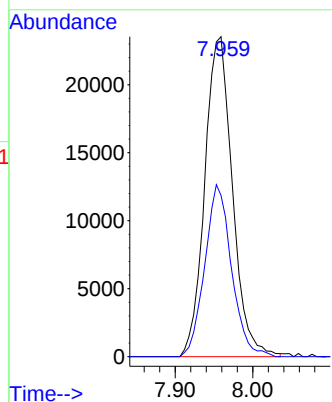
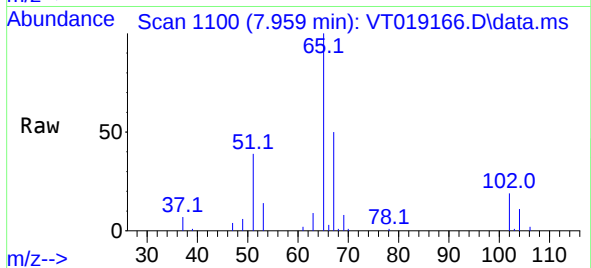




#27
1,2-Dichloroethane-d4
Concen: 32.896 ug/l
RT: 7.959 min Scan# 1100
Delta R.T. -0.012 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

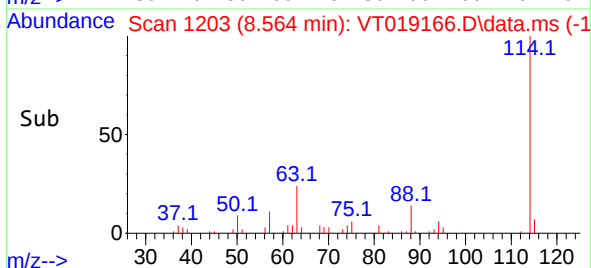
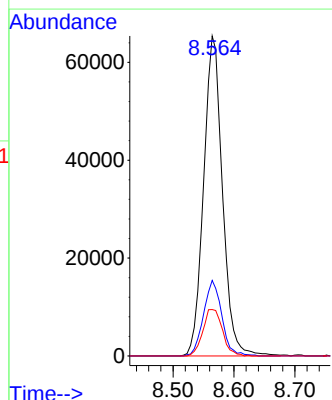
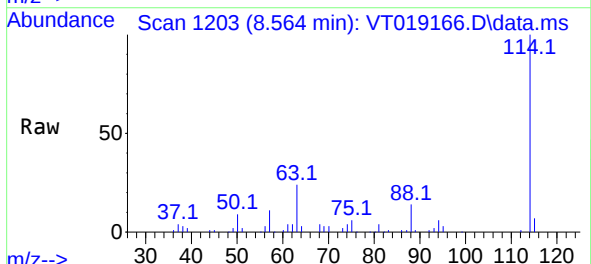
Instrument :
MSVOA_T
ClientSampleId :
VT1023WBL01

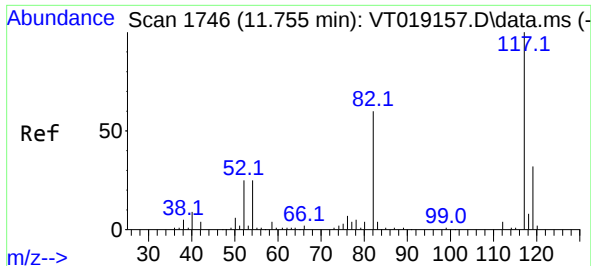
Tgt Ion: 65 Resp: 58385
Ion Ratio Lower Upper
65 100
67 51.9 40.7 61.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.564 min Scan# 1203
Delta R.T. -0.012 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion: 114 Resp: 140790
Ion Ratio Lower Upper
114 100
63 22.9 17.4 26.0
88 15.0 13.0 19.6

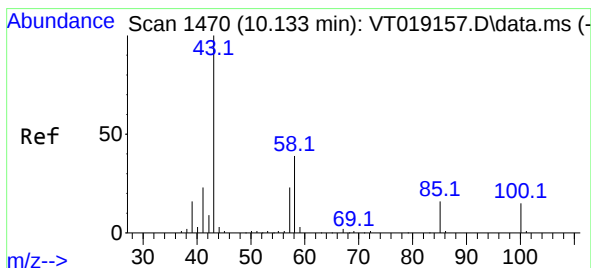
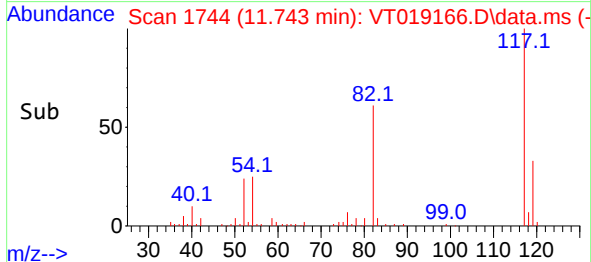
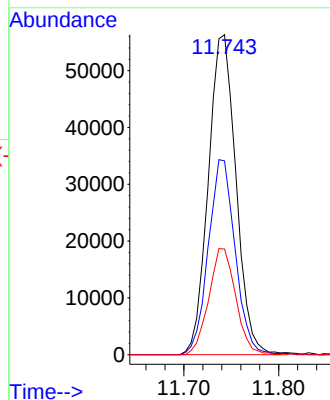
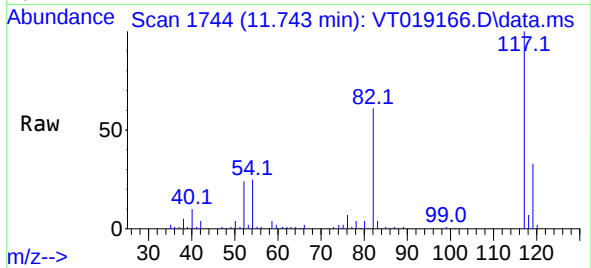




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.743 min Scan# 11
Delta R.T. -0.012 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

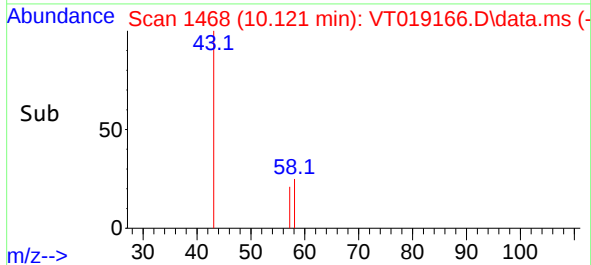
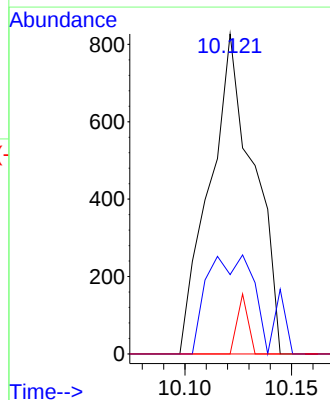
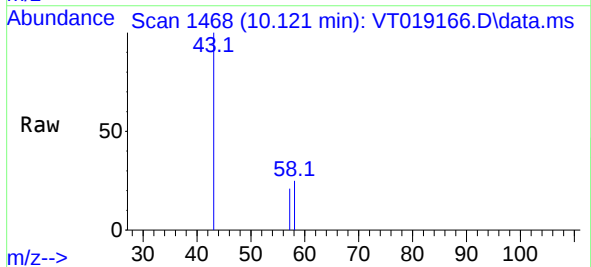
Instrument :
MSVOA_T
ClientSampleId :
VT1023WBL01

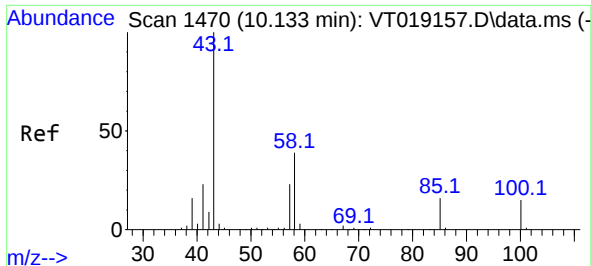
Tgt Ion:117 Resp: 114298
Ion Ratio Lower Upper
117 100
82 59.1 46.0 69.0
119 32.3 25.8 38.8



#58
4-Methyl-2-Pentanone
Concen: 0.423 ug/l
RT: 10.121 min Scan# 1468
Delta R.T. -0.018 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion: 43 Resp: 1185
Ion Ratio Lower Upper
43 100
58 19.3 30.6 45.8#
85 0.0 13.4 20.2#

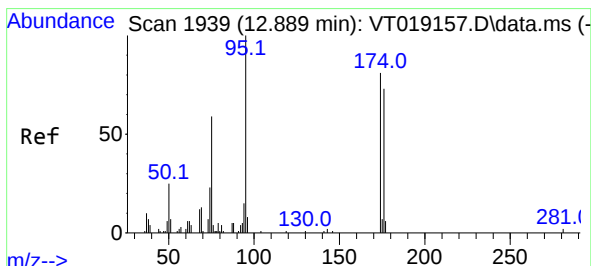
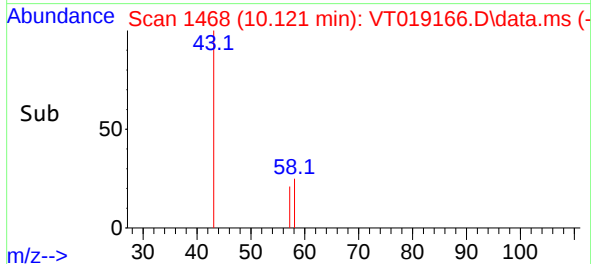
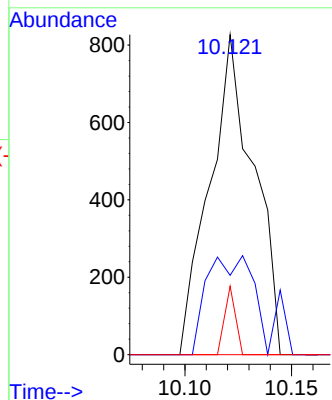
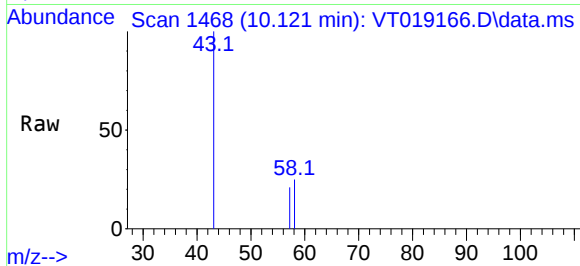




#59
2-Hexanone
Concen: 0.423 ug/l
RT: 10.121 min Scan# 1468
Delta R.T. -0.018 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

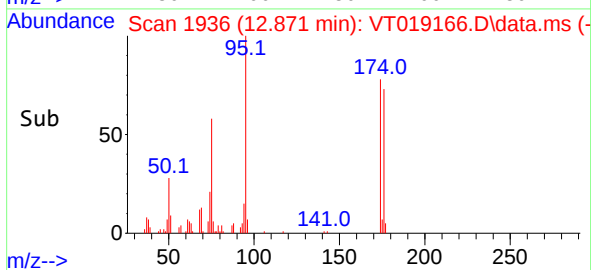
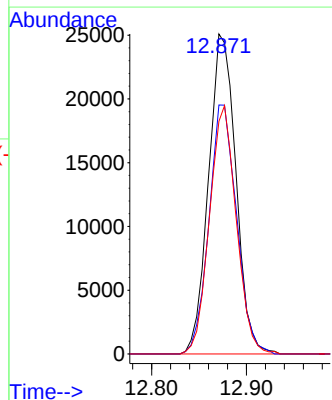
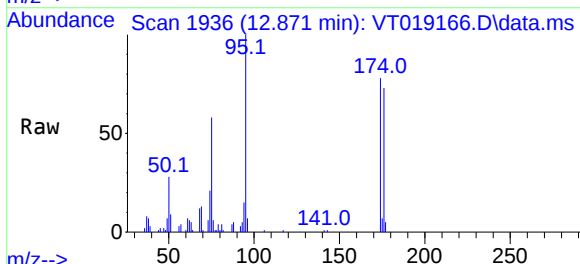
Instrument :
MSVOA_T
ClientSampleId :
VT1023WBL01

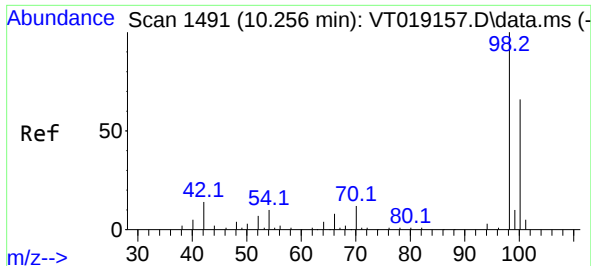
Tgt Ion: 43 Resp: 1185
Ion Ratio Lower Upper
43 100
58 19.3 42.0 63.0#
57 0.0 14.6 21.8#



#60
4-Bromofluorobenzene
Concen: 27.988 ug/l
RT: 12.871 min Scan# 1936
Delta R.T. -0.018 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion: 95 Resp: 50277
Ion Ratio Lower Upper
95 100
174 78.7 57.5 86.3
176 75.9 56.4 84.6

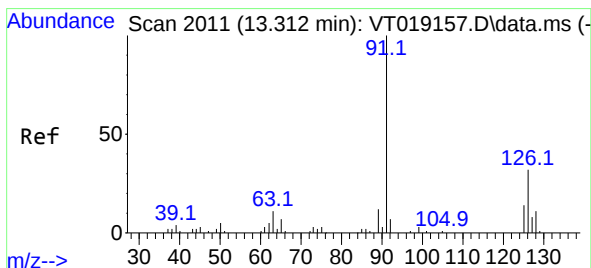
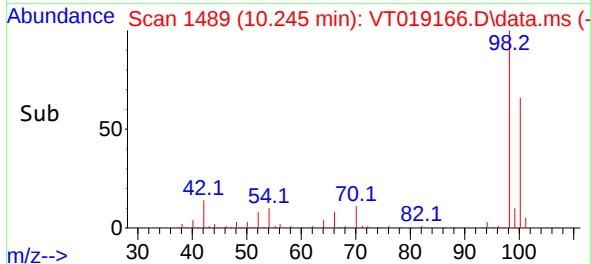
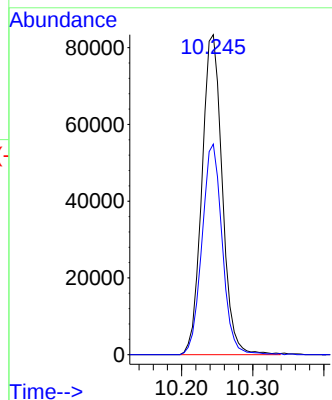
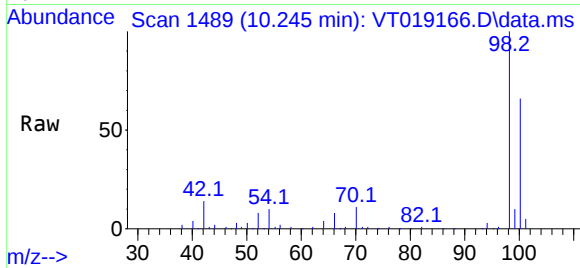




#63
Toluene-d8
Concen: 29.894 ug/l
RT: 10.245 min Scan# 1491
Delta R.T. -0.011 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

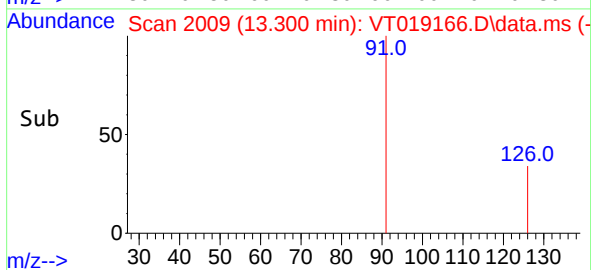
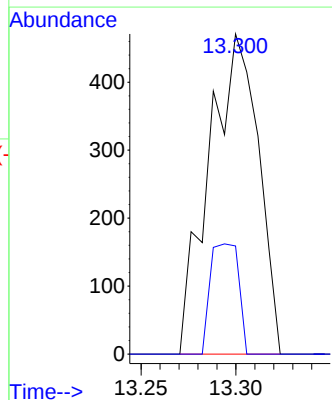
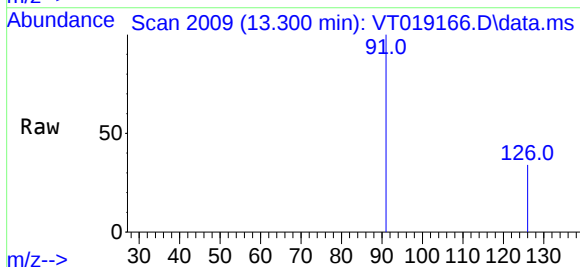
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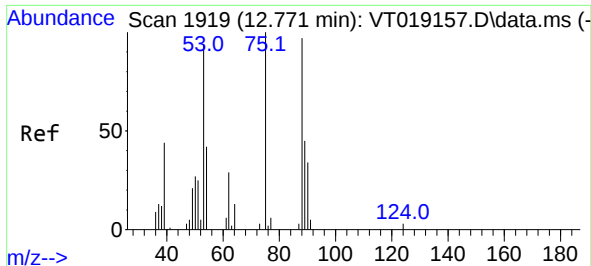
Tgt Ion: 98 Resp: 166305
Ion Ratio Lower Upper
98 100
100 65.3 52.9 79.3



#75
2-Chlorotoluene
Concen: 0.220 ug/l
RT: 13.300 min Scan# 2009
Delta R.T. -0.012 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion: 91 Resp: 851
Ion Ratio Lower Upper
91 100
126 19.7 0.0 63.6

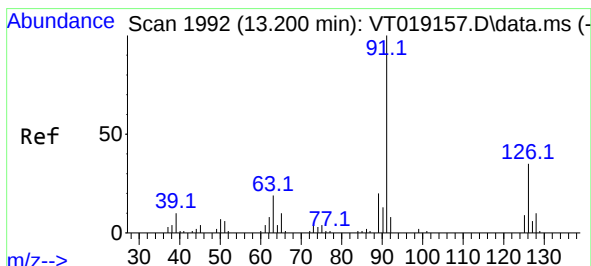
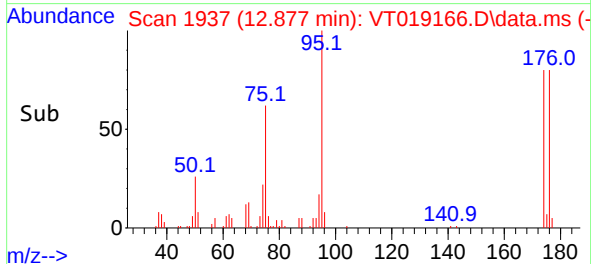
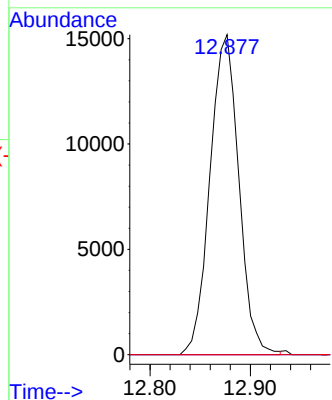
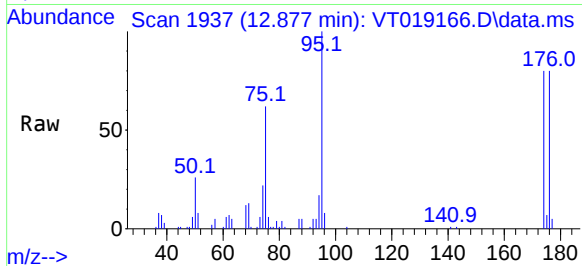




#77
t-1,4-Dichloro-2-butene
Concen: 41.147 ug/l
RT: 12.877 min Scan# 1919
Delta R.T. 0.112 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

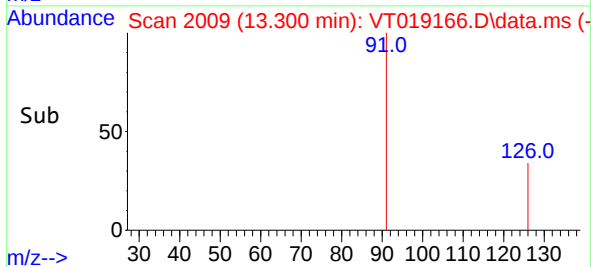
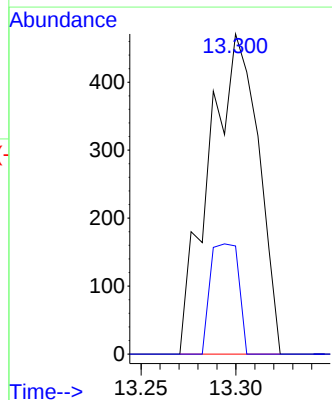
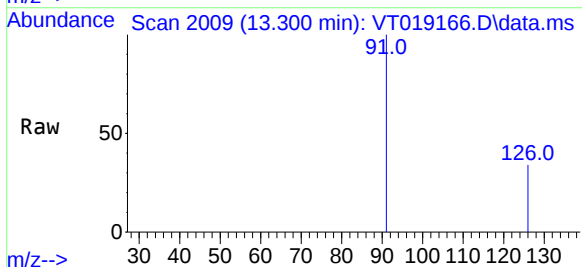
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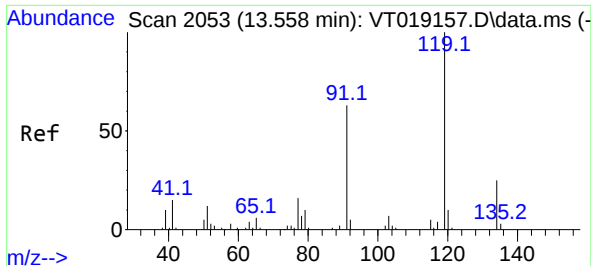
Tgt Ion: 75 Resp: 30322
Ion Ratio Lower Upper
75 100
53 0.0 48.4 145.2#
89 0.0 33.8 101.3#



#78
4-Chlorotoluene
Concen: 0.223 ug/l
RT: 13.300 min Scan# 2009
Delta R.T. 0.100 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion: 91 Resp: 851
Ion Ratio Lower Upper
91 100
126 19.7 0.0 57.2

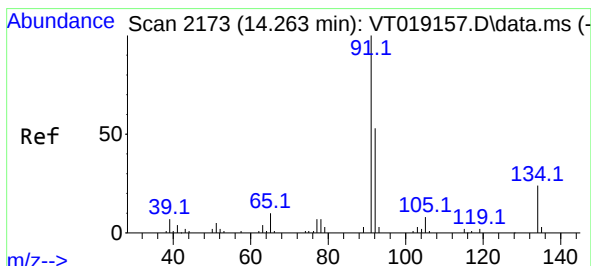
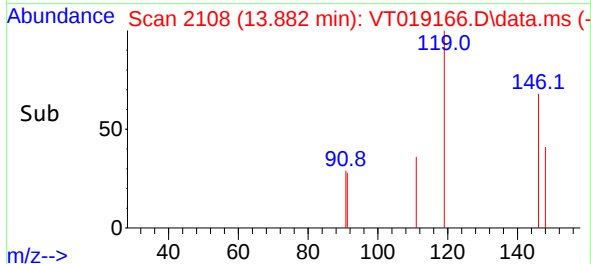
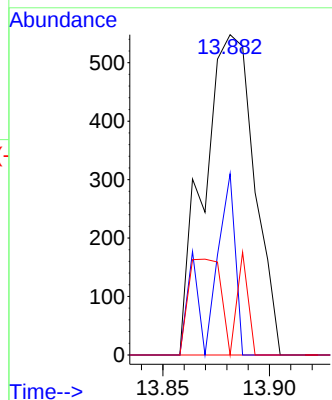
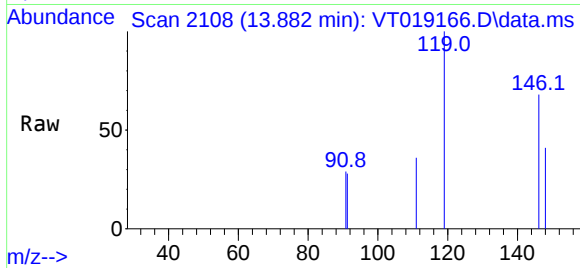




#79
tert-butylbenzene
Concen: 0.237 ug/l
RT: 13.882 min Scan# 2108
Delta R.T. 0.324 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

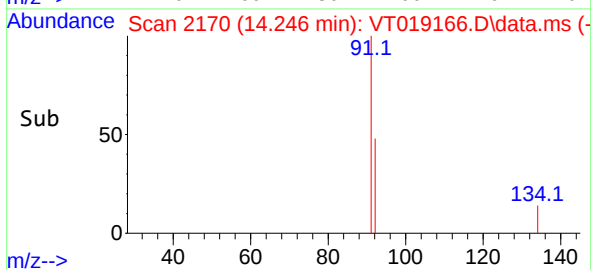
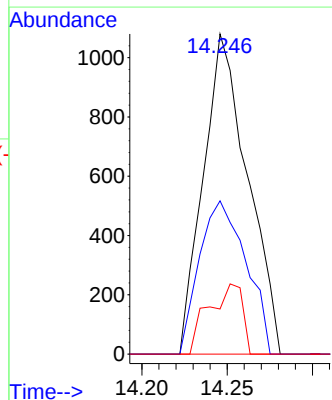
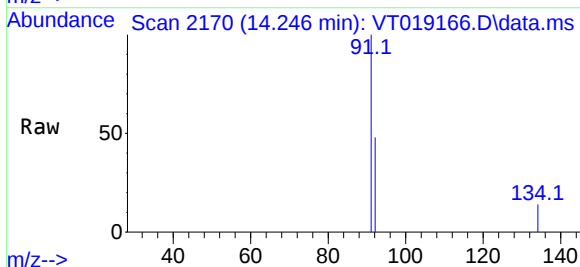
Instrument :
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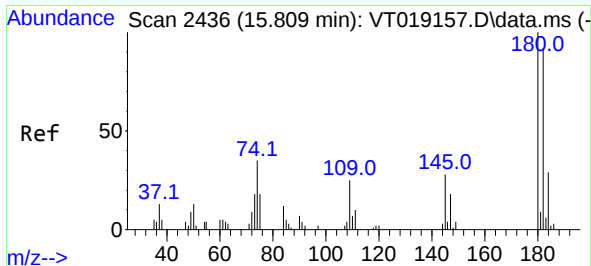
Tgt Ion:	119	Resp:	905
Ion	Ratio	Lower	Upper
119	100		
91	18.8	0.0	120.6
134	6.9	0.0	46.0



#85
n-Butylbenzene
Concen: 0.466 ug/l
RT: 14.246 min Scan# 2170
Delta R.T. -0.017 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

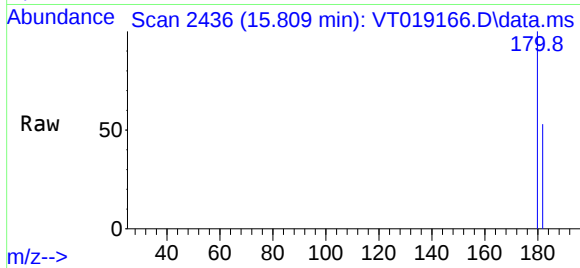
Tgt Ion:	91	Resp:	1951
Ion	Ratio	Lower	Upper
91	100		
92	50.3	0.0	107.8
134	8.4	0.0	50.0



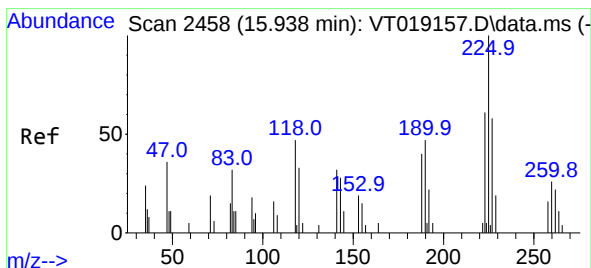
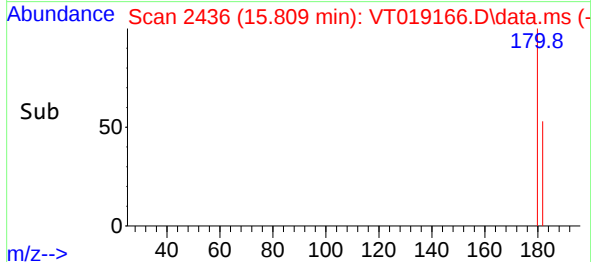
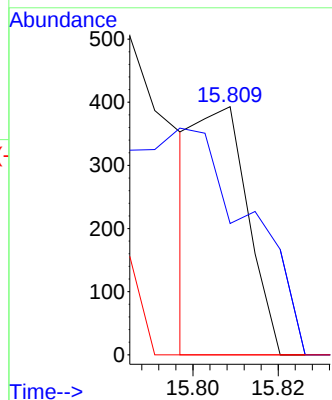


#89
1,2,4-Trichlorobenzene
Concen: 0.223 ug/l
RT: 15.809 min Scan# 2436
Delta R.T. -0.000 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Instrument :
MSVOA_T
ClientSampleId :
VT1023WBL01

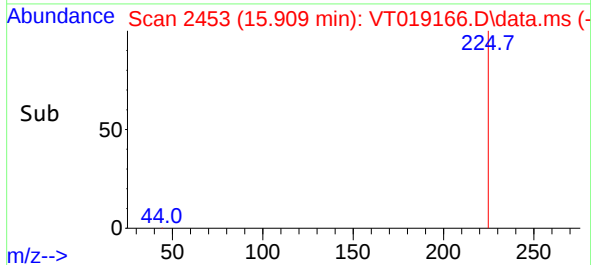
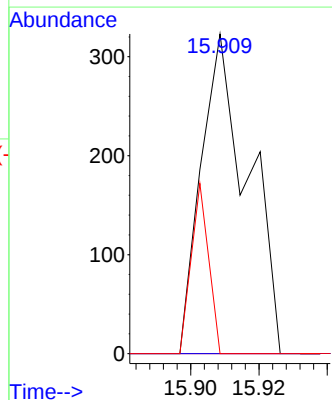
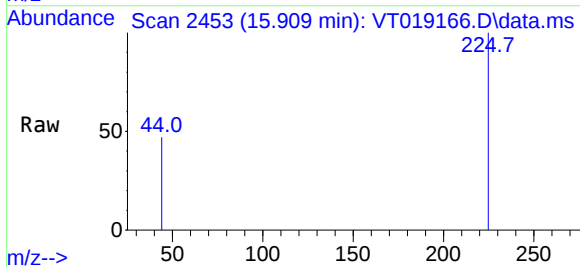


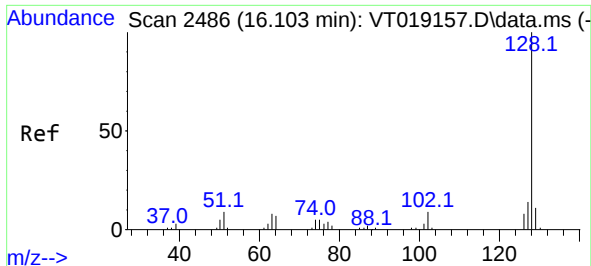
Tgt Ion:180 Resp: 327
Ion Ratio Lower Upper
180 100
182 0.0 78.2 117.2#
145 0.0 26.5 39.7#



#90
Hexachlorobutadiene
Concen: 0.632 ug/l
RT: 15.909 min Scan# 2453
Delta R.T. -0.029 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion:225 Resp: 308
Ion Ratio Lower Upper
225 100
223 0.0 0.0 73.8
227 0.0 0.0 130.6

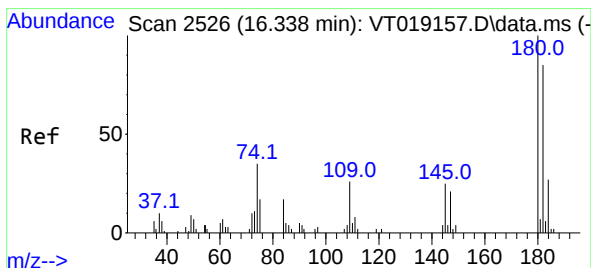
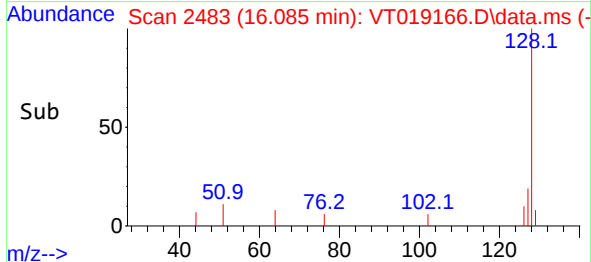
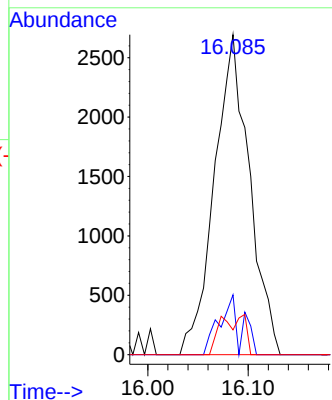
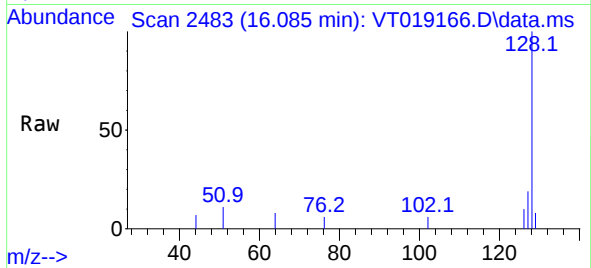




#91
Naphthalene
Concen: 1.150 ug/l
RT: 16.085 min Scan# 2486
Delta R.T. -0.012 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Instrument :
MSVOA_T
ClientSampleId :
VT1023WBL01

Tgt Ion:128 Resp: 6528
Ion Ratio Lower Upper
128 100
127 8.4 10.3 15.5#
129 5.2 9.0 13.4#



#92
1,2,3-Trichlorobenzene
Concen: 0.442 ug/l
RT: 16.308 min Scan# 2521
Delta R.T. -0.030 min
Lab File: VT019166.D
Acq: 23 Oct 2025 11:50

Tgt Ion:180 Resp: 655
Ion Ratio Lower Upper
180 100
182 160.6 0.0 189.0
145 0.0 0.0 69.2

