

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041323\
 Data File : VW030547.D
 Acq On : 13 Apr 2023 15:58
 Operator : SY/MD
 Sample : 02275-14
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDZ9

Quant Time: Apr 14 05:21:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Apr 14 05:16:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	153996	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	146795	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	68247	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	77204	7.570	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	= 151.400%#	
7) Chloroethane-d5	1.536	69	54081	5.464	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	= 109.200%	
11) 1,1-Dichloroethene-d2	2.069	63	217281	8.978	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	= 179.600%#	
20) 2-Butanone-d5	3.809	46	151819	57.590	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	= 115.180%	
24) Chloroform-d	4.262	84	120455	4.880	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 97.600%	
26) 1,2-Dichloroethane-d4	4.953	65	61165	5.252	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 105.000%	
32) Benzene-d6	4.973	84	217248	5.252	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 105.000%	
36) 1,2-Dichloropropane-d6	5.998	67	69627	5.376	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	= 107.600%	
41) Toluene-d8	7.252	98	175975	4.632	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 92.600%	
43) trans-1,3-Dichloroprop...	7.564	79	22502	4.615	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	= 92.200%	
46) 2-Hexanone-d5	8.034	63	103659	52.906	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	= 105.820%	
56) 1,1,2,2-Tetrachloroeth...	10.162	84	49002	4.801	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	= 96.000%	
66) 1,2-Dichlorobenzene-d4	11.571	152	63687	5.221	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	= 104.400%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	3328	0.135	ug/L	89
5) Vinyl chloride	1.285	62	192223	10.673	ug/L	98
6) Bromomethane	1.491	94	674	0.131	ug/L	82
8) Chloroethane	1.285	64	61019	5.915	ug/L #	47
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	1769	0.122	ug/L #	43
12) 1,1-Dichloroethene	2.076	96	206828	16.074	ug/L #	77
15) Methyl Acetate	2.442	43	1937	0.430	ug/L #	55
17) Methyl tert-butyl Ether	2.716	73	10528	0.386	ug/L #	36
18) trans-1,2-Dichloroethene	2.703	96	21390	1.578	ug/L	94
19) 1,1-Dichloroethane	3.121	63	175324	6.672	ug/L	98
22) cis-1,2-Dichloroethene	3.825	96	3696962	271.750	ug/L	96
25) Chloroform	4.291	83	60973	2.296	ug/L	97
27) 1,2-Dichloroethane	5.056	62	16464	1.025	ug/L	100
29) 1,1,1-Trichloroethane	4.526	97	105034	4.452	ug/L	97
30) Cyclohexane	4.587	56	6469	0.301	ug/L	99
31) Carbon tetrachloride	4.748	117	6204	0.290	ug/L	95
33) Benzene	5.021	78	264878	5.080	ug/L	100
34) Trichloroethene	5.851	95	12011312	854.180	ug/L	93
35) Methylcyclohexane	6.063	83	5916	0.268	ug/L #	56

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

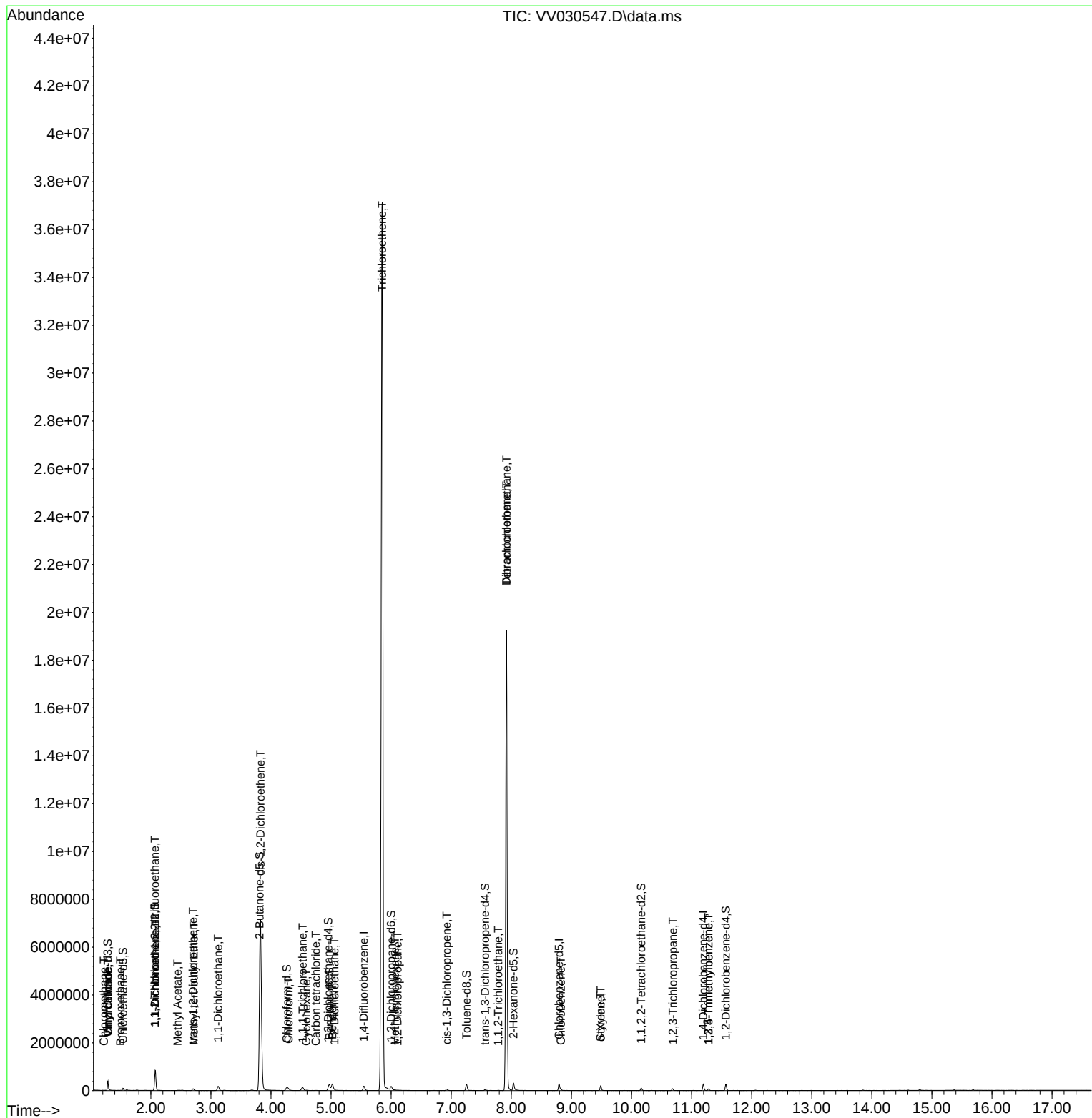
37) 1,2-Dichloropropane	6.108	63	2230	0.167	ug/L #	78
39) cis-1,3-Dichloropropene	6.924	75	1789	0.095	ug/L #	53
45) 1,1,2-Trichloroethane	7.783	97	2687	0.285	ug/L	93
47) Tetrachloroethene	7.918	164	3758143	302.826	ug/L	93
49) Dibromochloromethane	7.918	129	3527869	314.458	ug/L #	12
51) Chlorobenzene	8.825	112	22775	0.640	ug/L	99
54) o-Xylene	9.487	106	51323	2.306	ug/L	99
55) Styrene	9.484	104	4102	0.109	ug/L #	1
61) 1,2,3-Trichloropropane	10.690	75	738	0.121	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.281	105	37683	0.918	ug/L	89
63) 1,2,4-Trimethylbenzene	11.281	105	37683	0.900	ug/L	93

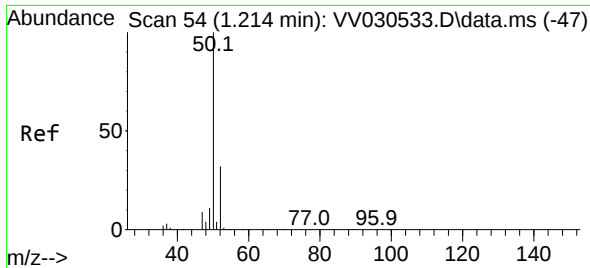
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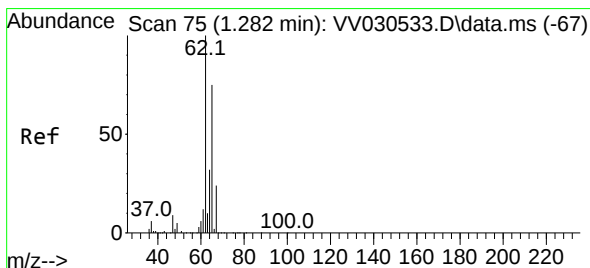
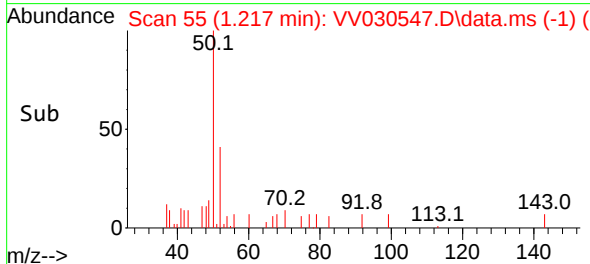
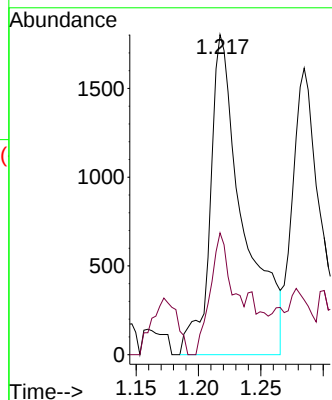
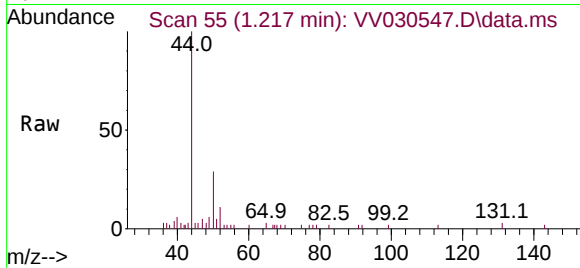




#3
Chloromethane
Concen: 0.135 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

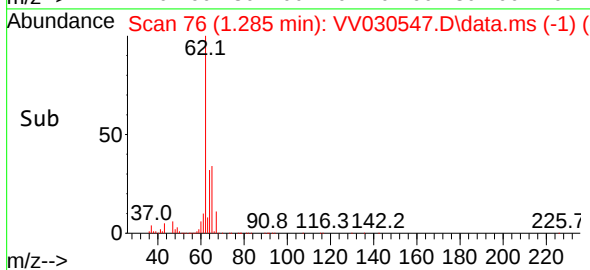
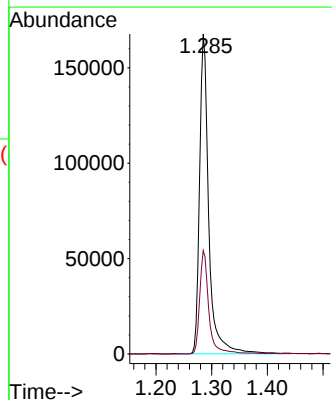
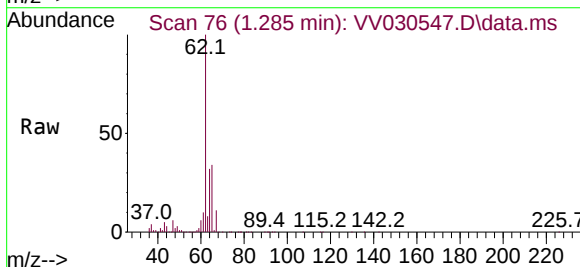
Instrument :
MSVOA_V
ClientSampleId :
BHDZ9

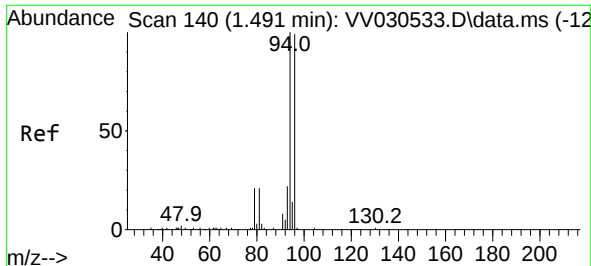
Tgt Ion: 50 Resp: 3328
Ion Ratio Lower Upper
50 100
52 38.0 22.3 41.5



#5
Vinyl chloride
Concen: 10.673 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.003 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion: 62 Resp: 192223
Ion Ratio Lower Upper
62 100
64 32.3 23.2 43.2

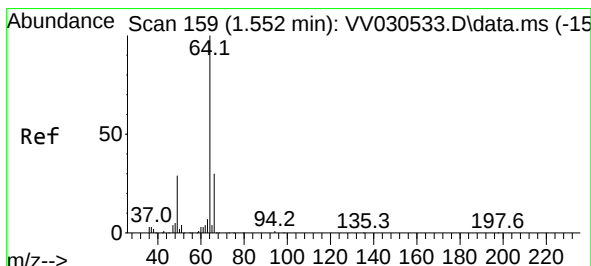
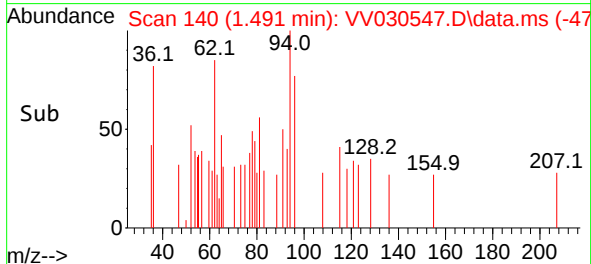
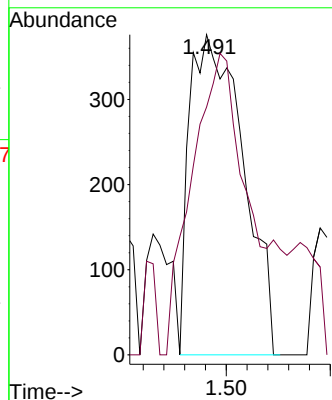
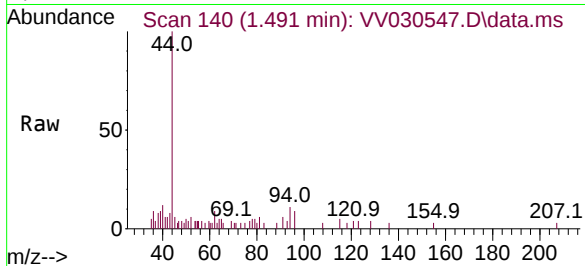




#6
Bromomethane
Concen: 0.131 ug/L
RT: 1.491 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

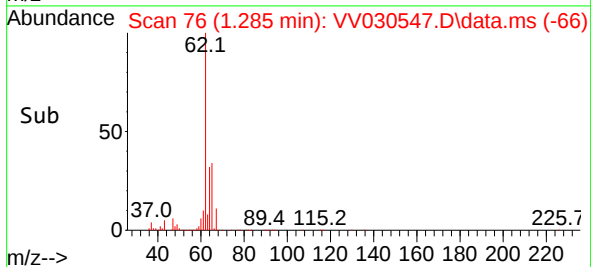
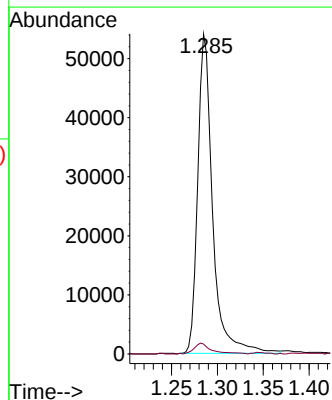
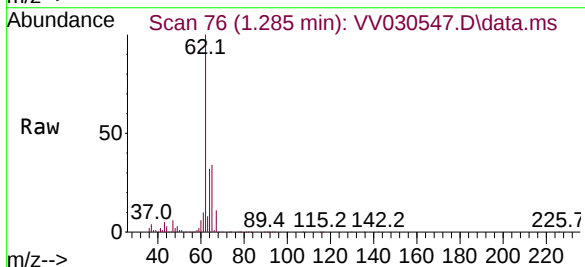
Instrument :
MSVOA_V
ClientSampleId :
BHDZ9

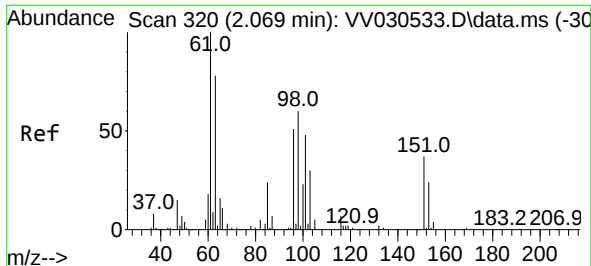
Tgt Ion: 94 Resp: 674
Ion Ratio Lower Upper
94 100
96 77.4 66.1 122.7



#8
Chloroethane
Concen: 5.915 ug/L
RT: 1.285 min Scan# 76
Delta R.T. -0.267 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion: 64 Resp: 61019
Ion Ratio Lower Upper
64 100
66 3.1 23.0 42.8#

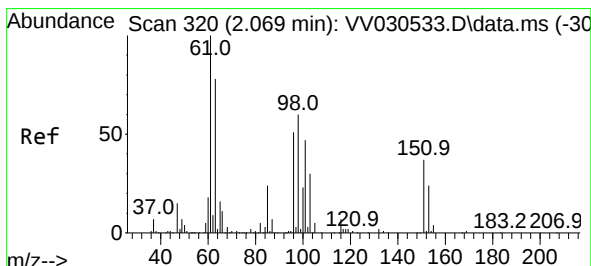
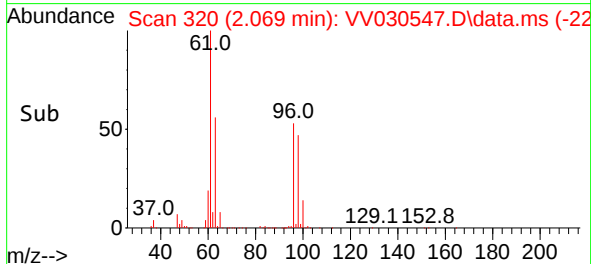
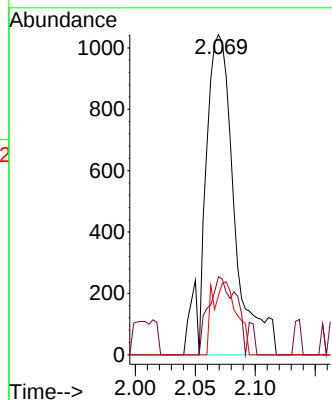
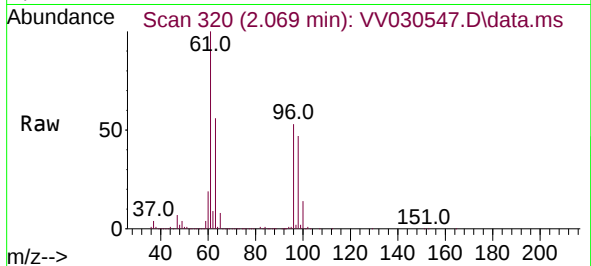




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.122 ug/L
 RT: 2.069 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV030547.D
 Acq: 13 Apr 2023 15:58

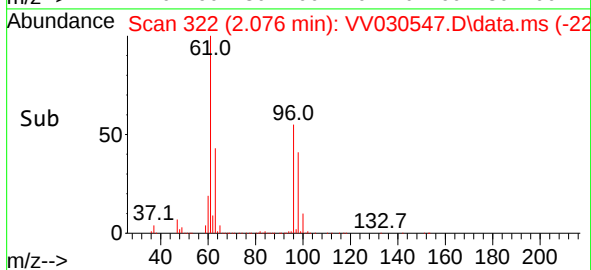
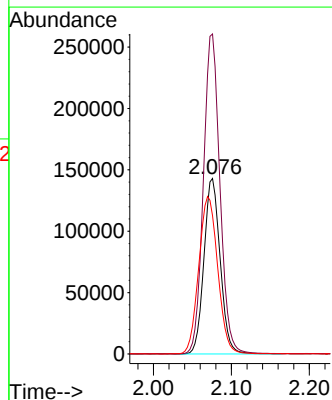
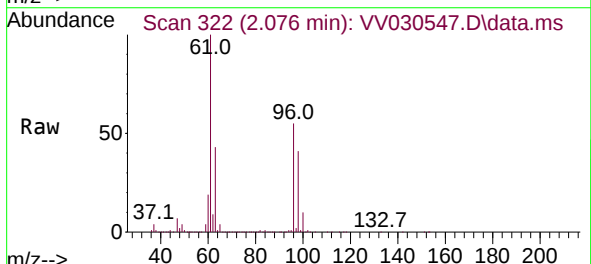
Instrument :
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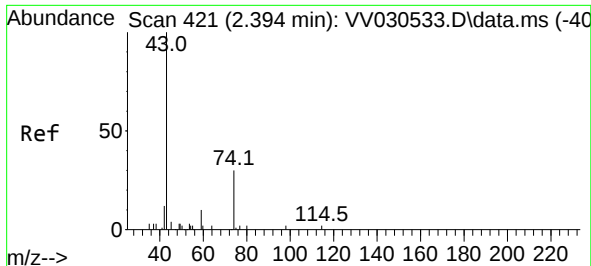
Tgt Ion: 101 Resp: 1769
 Ion Ratio Lower Upper
 101 100
 85 22.5 38.1 57.1#
 151 18.9 62.7 94.1#



#12
 1,1-Dichloroethene
 Concen: 16.074 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. 0.006 min
 Lab File: VV030547.D
 Acq: 13 Apr 2023 15:58

Tgt Ion: 96 Resp: 206828
 Ion Ratio Lower Upper
 96 100
 61 182.4 136.3 253.1
 63 78.9 92.1 171.1#

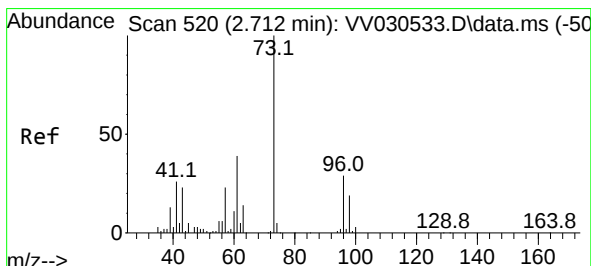
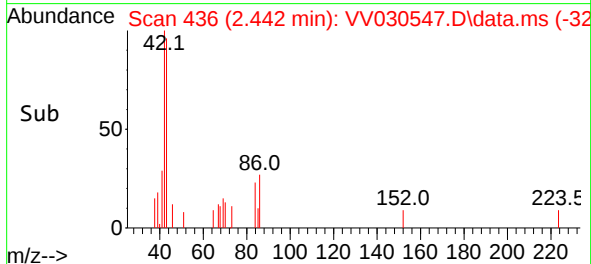
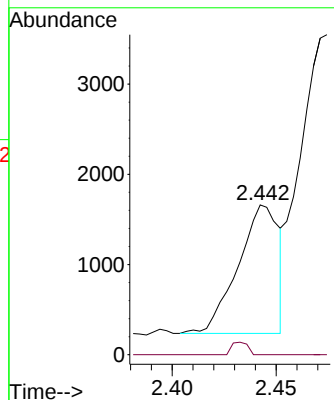
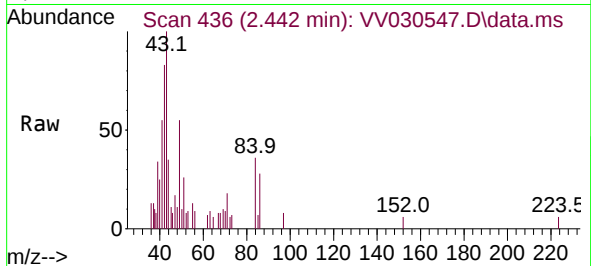




#15
Methyl Acetate
Concen: 0.430 ug/L
RT: 2.442 min Scan# 41
Delta R.T. 0.048 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

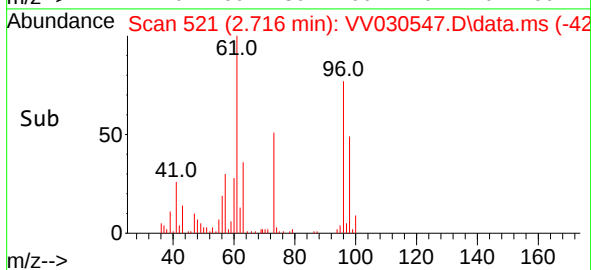
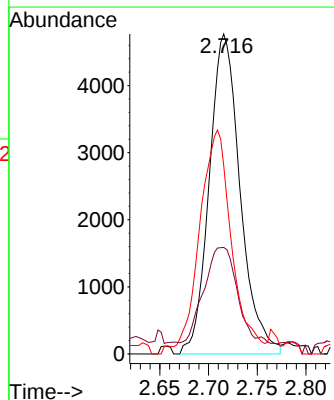
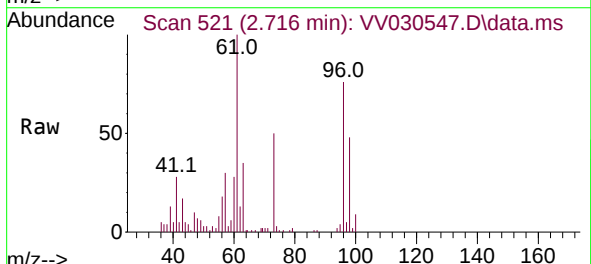
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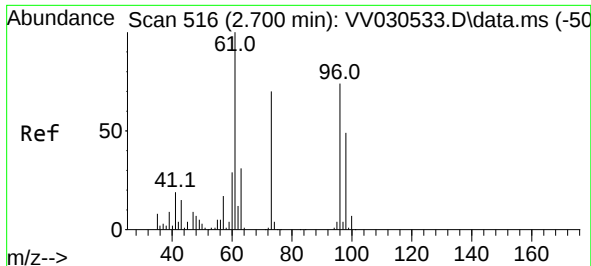
Tgt Ion: 43 Resp: 1937
Ion Ratio Lower Upper
43 100
74 3.9 22.1 33.1#



#17
Methyl tert-butyl Ether
Concen: 0.386 ug/L
RT: 2.716 min Scan# 521
Delta R.T. 0.003 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion: 73 Resp: 10528
Ion Ratio Lower Upper
73 100
43 32.5 17.4 26.2#
57 72.7 18.3 27.5#

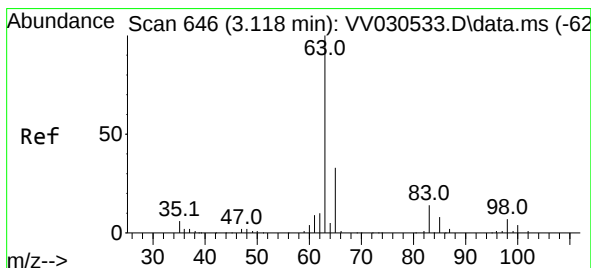
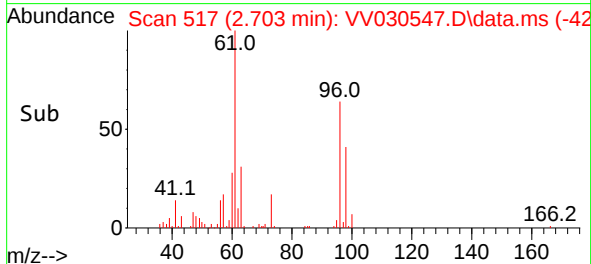
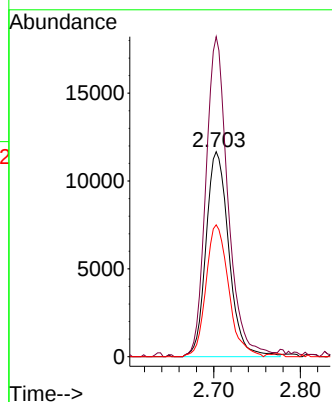
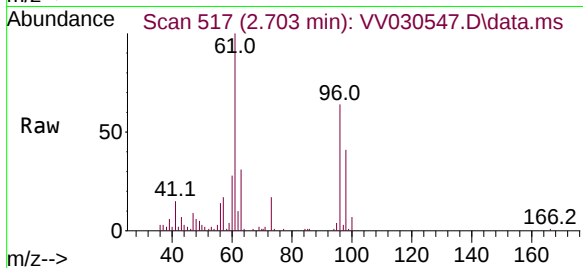




#18
trans-1,2-Dichloroethene
Concen: 1.578 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV030547.D
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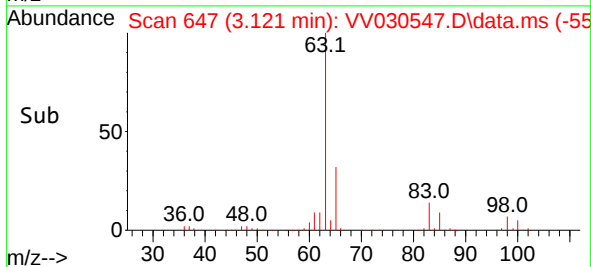
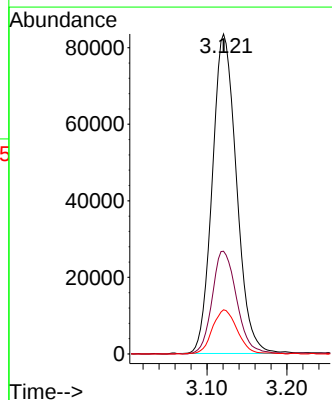
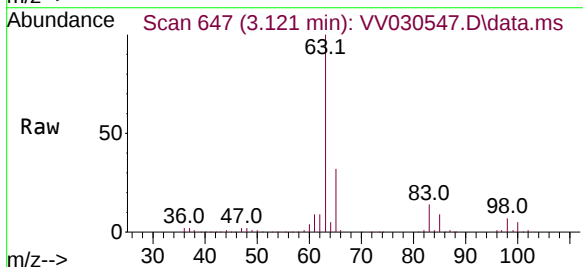
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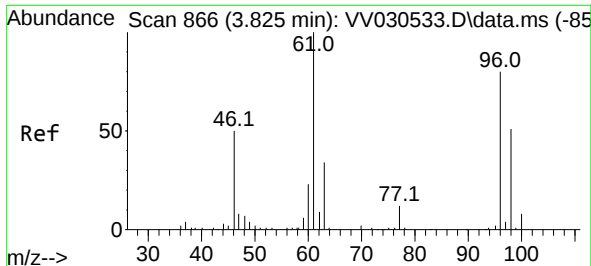
Tgt Ion: 96 Resp: 21390
Ion Ratio Lower Upper
96 100
61 156.2 101.7 188.9
98 64.4 45.8 85.2



#19
1,1-Dichloroethane
Concen: 6.672 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion: 63 Resp: 175324
Ion Ratio Lower Upper
63 100
65 32.1 21.7 40.3
83 13.8 9.1 16.9





#22

cis-1,2-Dichloroethene

Concen: 271.750 ug/L

RT: 3.825 min Scan# 80

Delta R.T. -0.000 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Instrument :

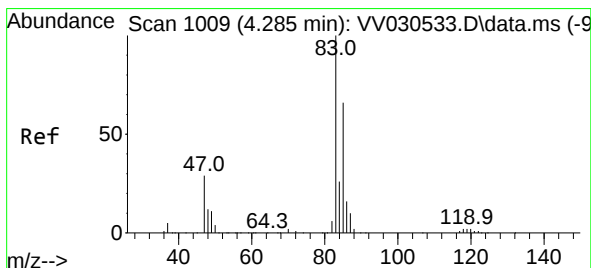
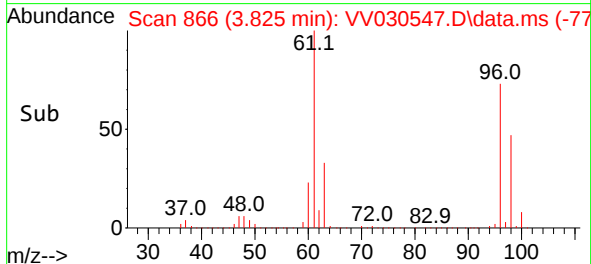
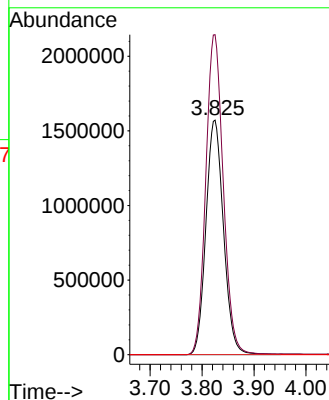
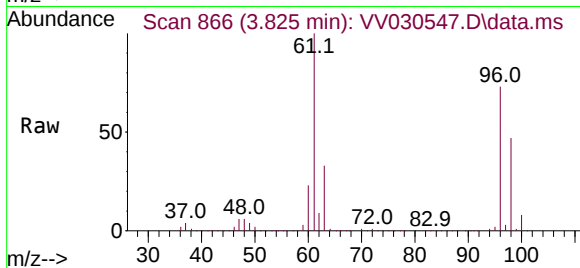
MSVOA_V

ClientSampleId :

BHDZ9

Tgt Ion: 96 Resp: 3696962

Ion	Ratio	Lower	Upper
96	100		
61	136.4	92.0	170.8
68	0.0	0.0	0.0



#25

Chloroform

Concen: 2.296 ug/L

RT: 4.291 min Scan# 1011

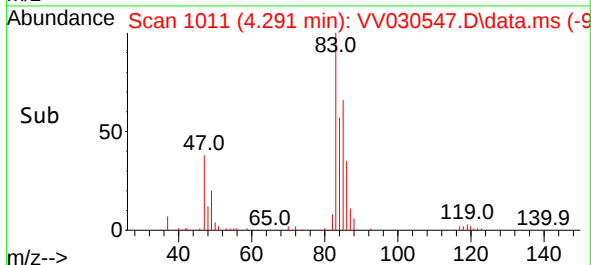
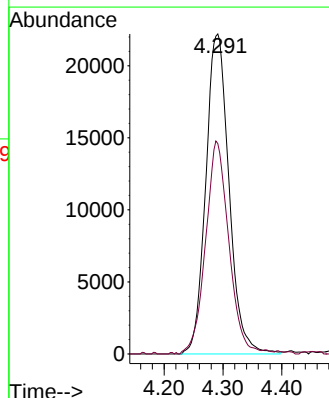
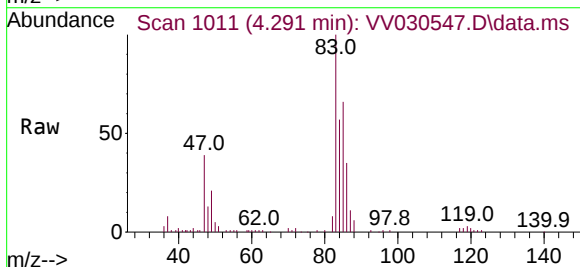
Delta R.T. 0.006 min

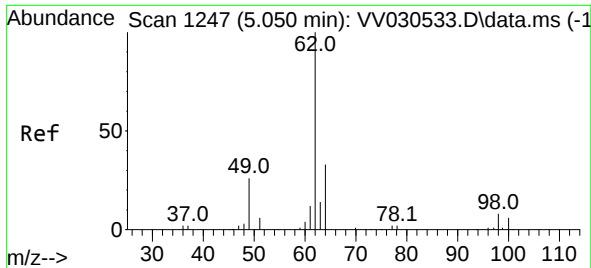
Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Tgt Ion: 83 Resp: 60973

Ion	Ratio	Lower	Upper
83	100		
85	65.8	47.6	88.4





#27

1,2-Dichloroethane

Concen: 1.025 ug/L

RT: 5.056 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Instrument :

MSVOA_V

ClientSampleId :

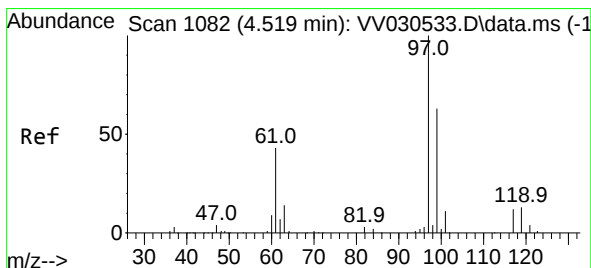
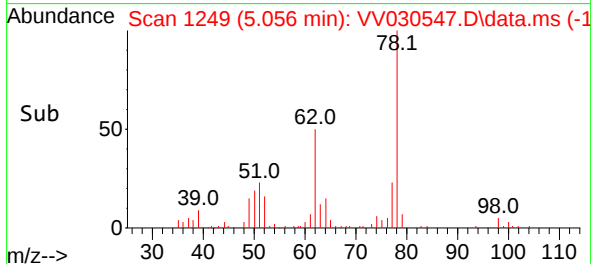
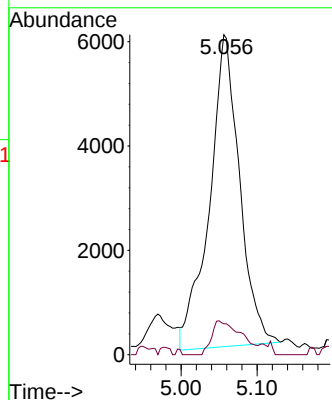
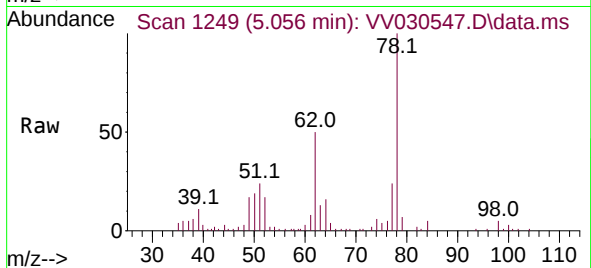
BHDZ9

Tgt Ion: 62 Resp: 16464

Ion Ratio Lower Upper

62 100

98 9.6 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 4.452 ug/L

RT: 4.526 min Scan# 1084

Delta R.T. 0.006 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

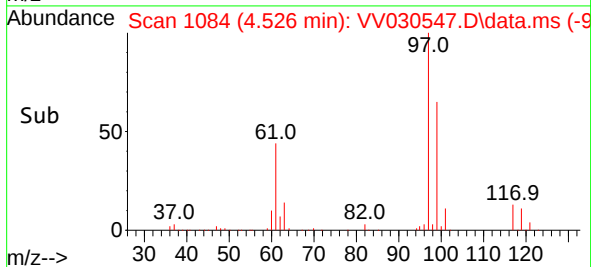
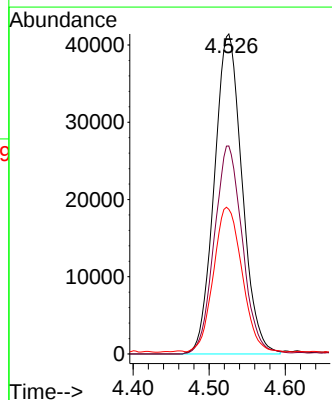
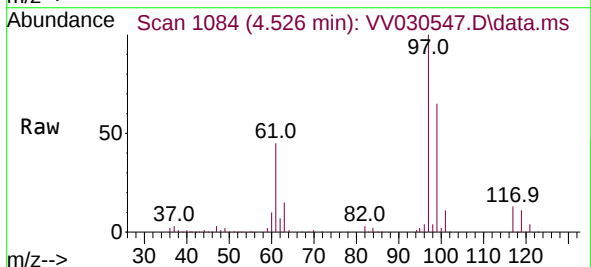
Tgt Ion: 97 Resp: 105034

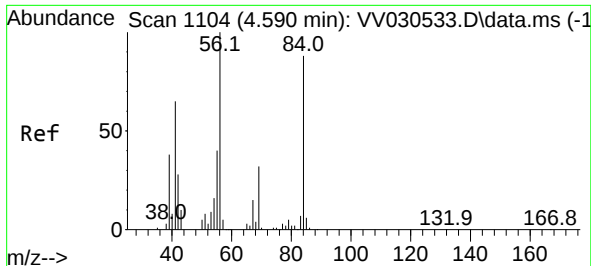
Ion Ratio Lower Upper

97 100

99 66.0 50.9 76.3

61 46.2 35.9 53.9





#30

Cyclohexane

Concen: 0.301 ug/L

RT: 4.587 min Scan# 1103

Delta R.T. -0.003 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Instrument :

MSVOA_V

ClientSampleId :

BHDZ9

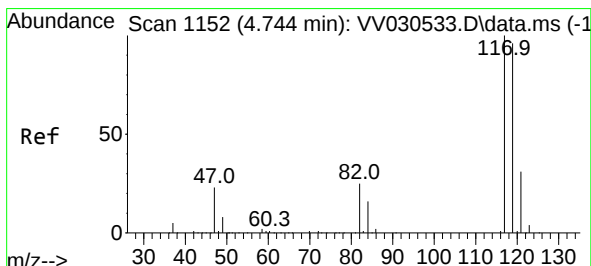
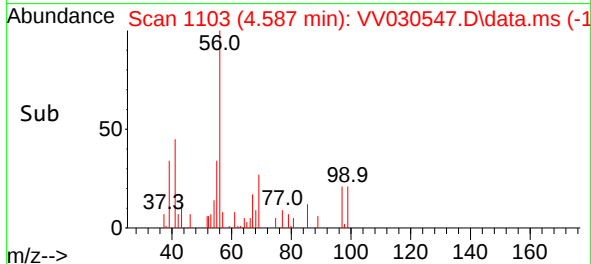
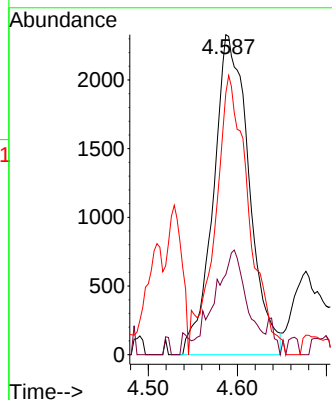
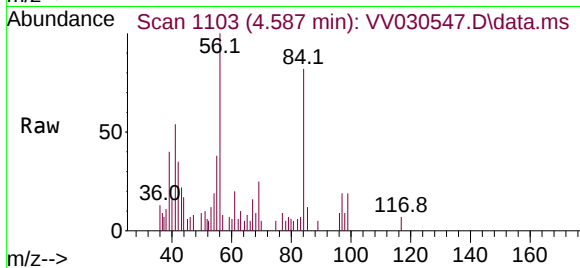
Tgt Ion: 56 Resp: 6469

Ion Ratio Lower Upper

56 100

69 30.0 24.2 36.2

84 82.6 66.6 100.0



#31

Carbon tetrachloride

Concen: 0.290 ug/L

RT: 4.748 min Scan# 1153

Delta R.T. 0.003 min

Lab File: VV030547.D

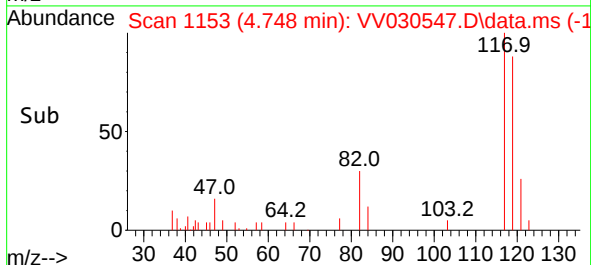
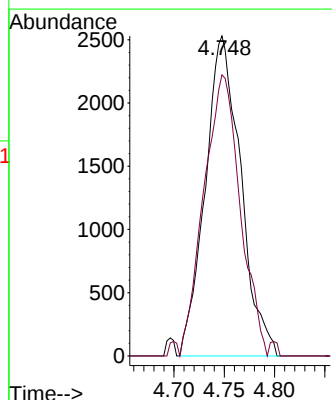
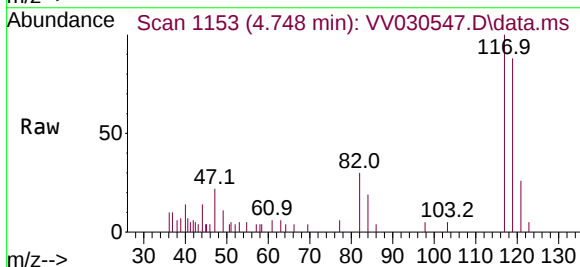
Acq: 13 Apr 2023 15:58

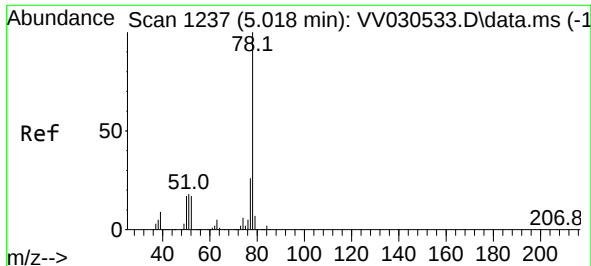
Tgt Ion: 117 Resp: 6204

Ion Ratio Lower Upper

117 100

119 90.0 76.2 114.4

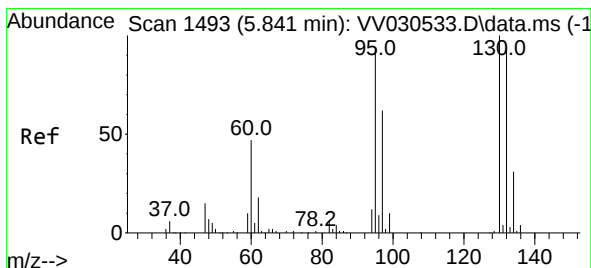
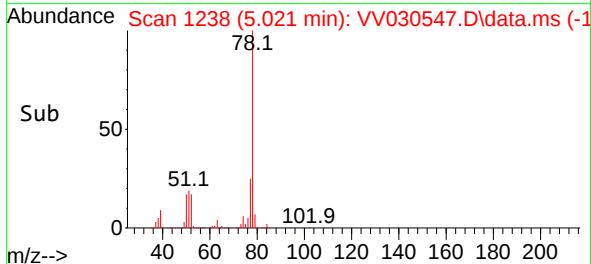
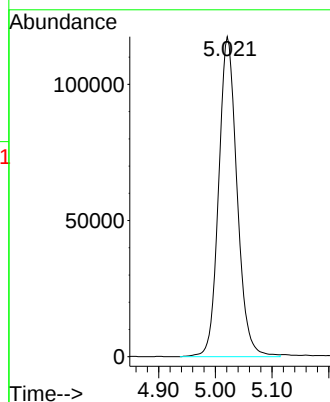
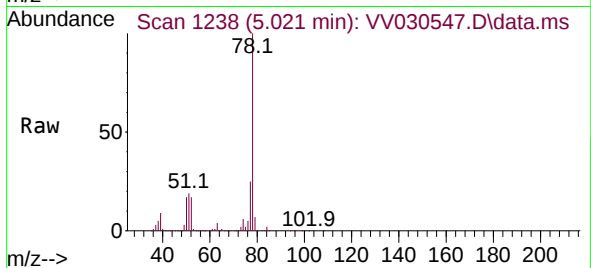




#33
Benzene
Concen: 5.080 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Instrument :
MSVOA_V
ClientSampleId :
BHDZ9

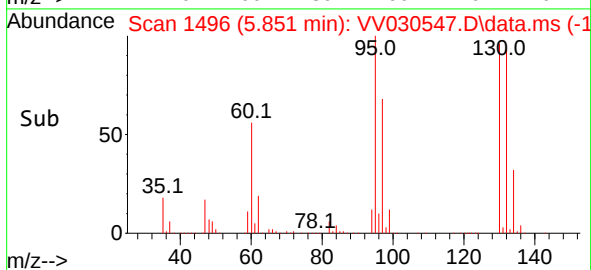
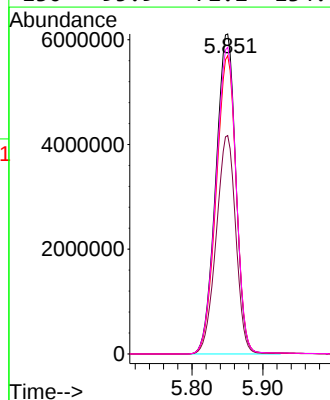
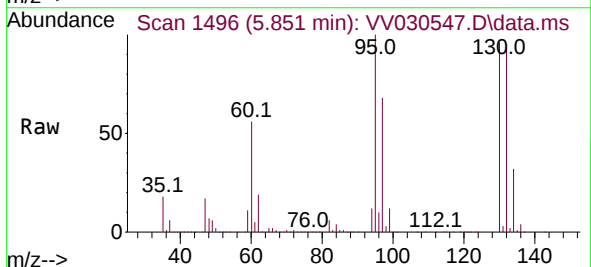
Tgt Ion: 78 Resp: 264878

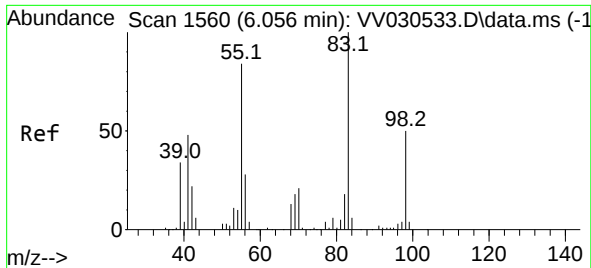


#34
Trichloroethene
Concen: 854.180 ug/L
RT: 5.851 min Scan# 1496
Delta R.T. 0.010 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion: 95 Resp:12011312

Ion	Ratio	Lower	Upper
95	100		
97	68.3	44.2	82.2
132	93.2	69.5	129.1
130	95.9	72.2	134.0

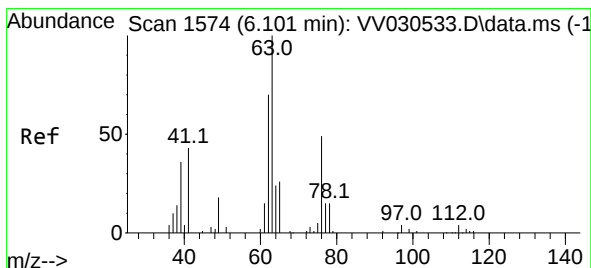
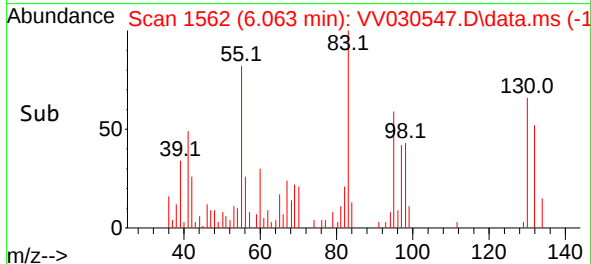
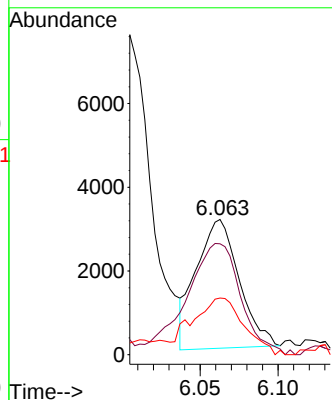
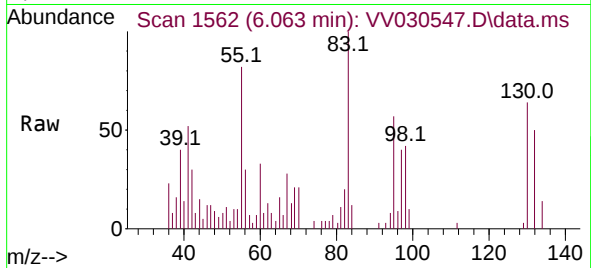




#35
Methylcyclohexane
Concen: 0.268 ug/L
RT: 6.063 min Scan# 1560
Delta R.T. 0.006 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

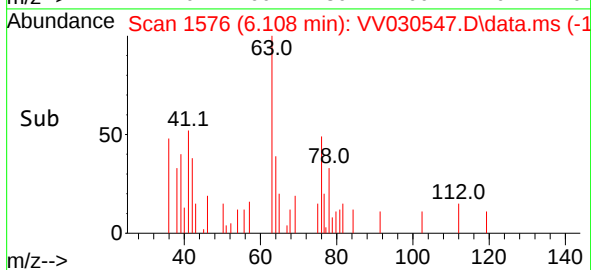
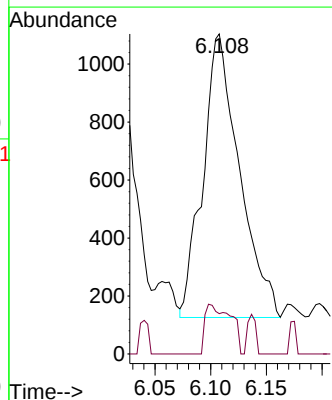
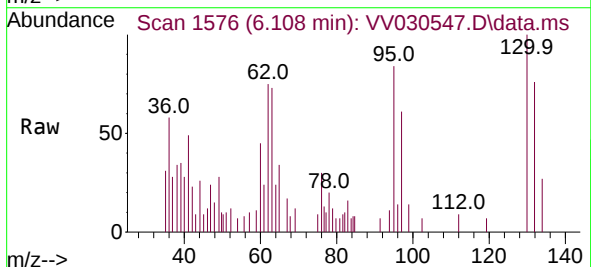
Instrument :
MSVOA_V
ClientSampleId :
BHDZ9

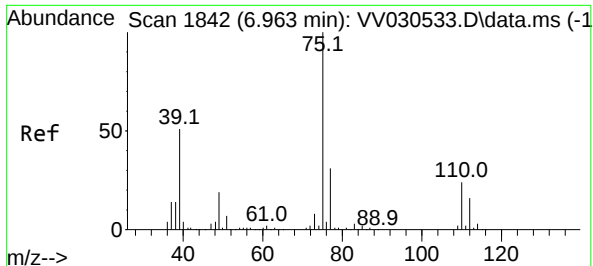
Tgt Ion: 83 Resp: 5916
Ion Ratio Lower Upper
83 100
55 109.1 66.6 100.0#
98 0.0 38.6 58.0#



#37
1,2-Dichloropropane
Concen: 0.167 ug/L
RT: 6.108 min Scan# 1576
Delta R.T. 0.006 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion: 63 Resp: 2230
Ion Ratio Lower Upper
63 100
112 12.3 3.9 5.9#





#39

cis-1,3-Dichloropropene

Concen: 0.095 ug/L

RT: 6.924 min Scan# 1842

Delta R.T. -0.039 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Instrument :

MSVOA_V

ClientSampleId :

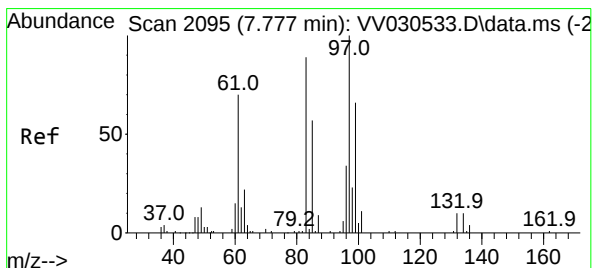
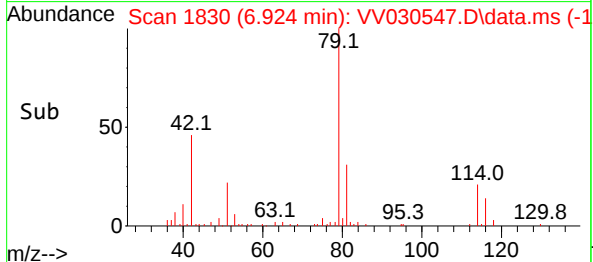
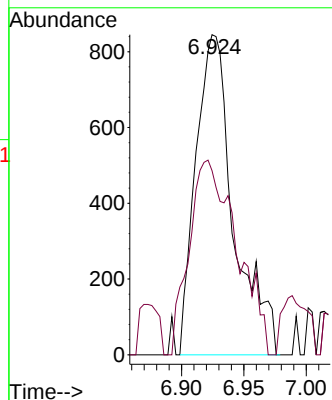
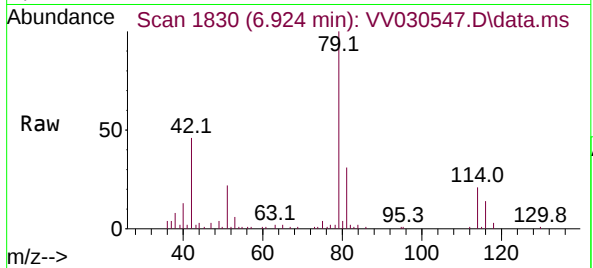
BHDZ9

Tgt Ion: 75 Resp: 1789

Ion Ratio Lower Upper

75 100

77 57.5 22.0 41.0#



#45

1,1,2-Trichloroethane

Concen: 0.285 ug/L

RT: 7.783 min Scan# 2097

Delta R.T. 0.006 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Tgt Ion: 97 Resp: 2687

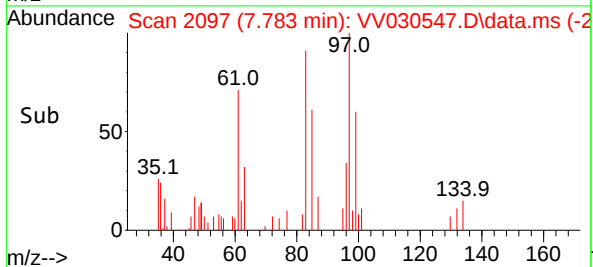
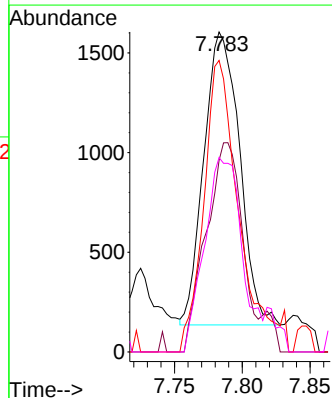
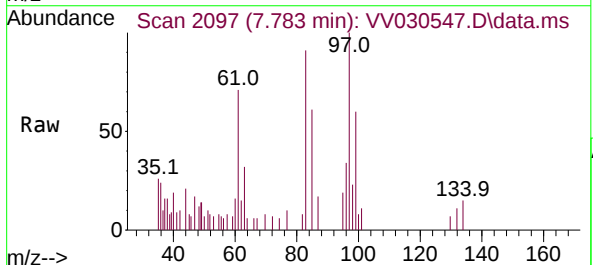
Ion Ratio Lower Upper

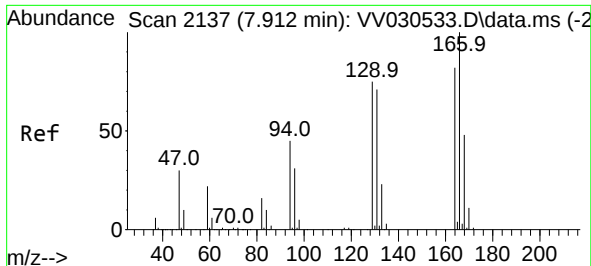
97 100

99 59.9 44.0 81.8

83 91.1 58.8 109.2

85 60.7 37.2 69.0

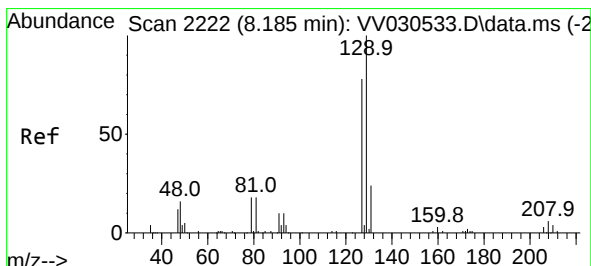
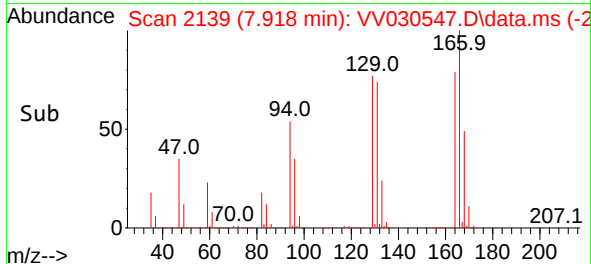
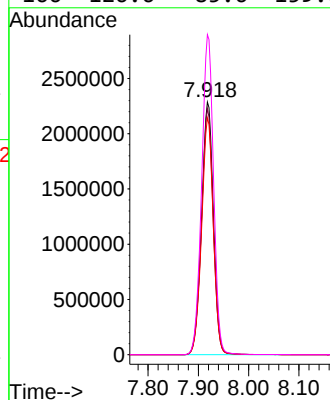
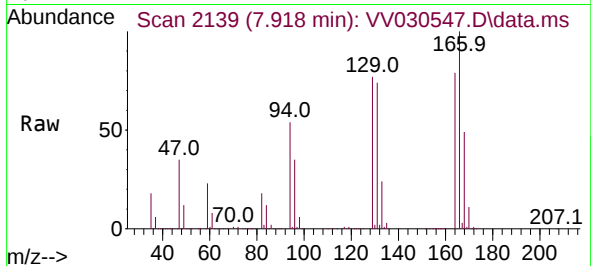




#47
Tetrachloroethene
Concen: 302.826 ug/L
RT: 7.918 min Scan# 2139
Delta R.T. 0.006 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

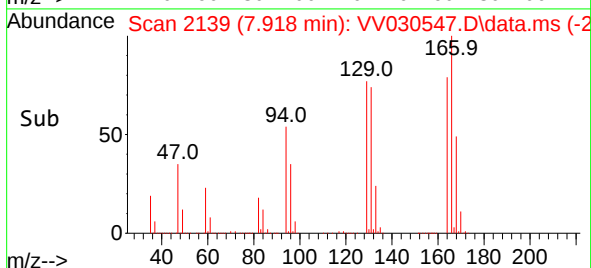
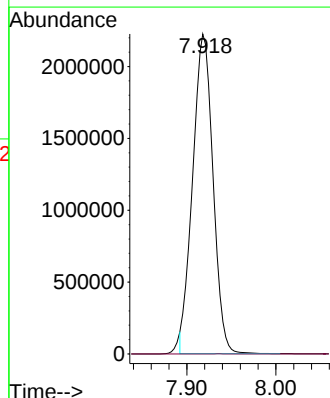
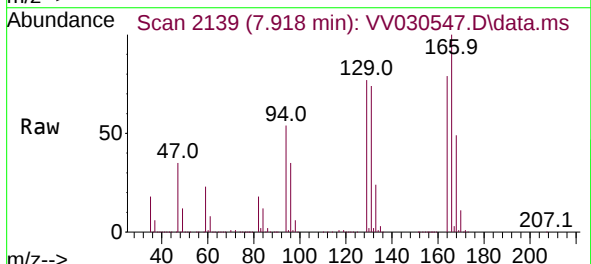
Instrument :
MSVOA_V
ClientSampleId :
BHDZ9

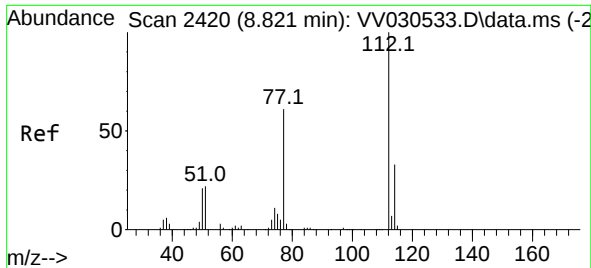
Tgt Ion:164 Resp: 3758143
Ion Ratio Lower Upper
164 100
129 97.4 60.8 112.8
131 93.7 61.7 114.7
166 126.6 85.6 159.0



#49
Dibromochloromethane
Concen: 314.458 ug/L
RT: 7.918 min Scan# 2139
Delta R.T. -0.267 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion:129 Resp: 3527869
Ion Ratio Lower Upper
129 100
127 0.0 52.7 97.9#

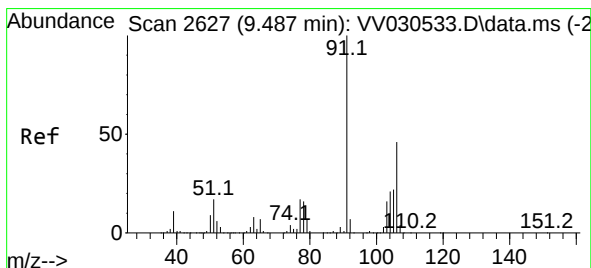
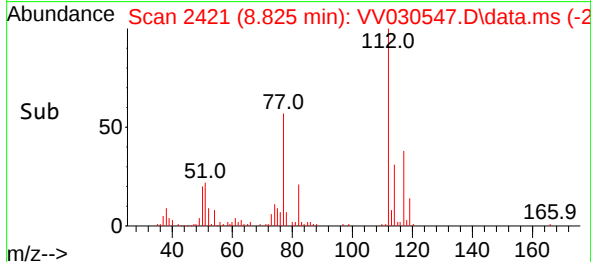
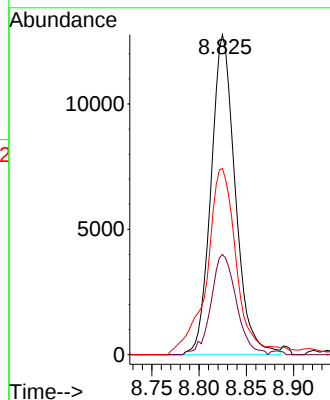
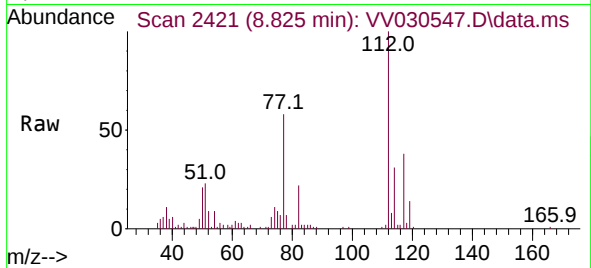




#51
Chlorobenzene
Concen: 0.640 ug/L
RT: 8.825 min Scan# 2420
Delta R.T. 0.003 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

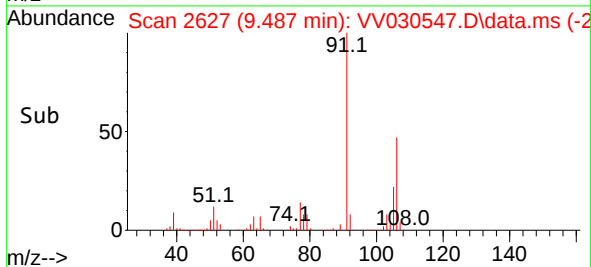
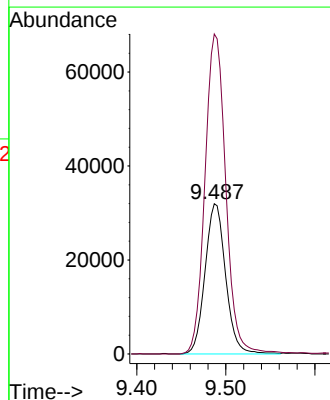
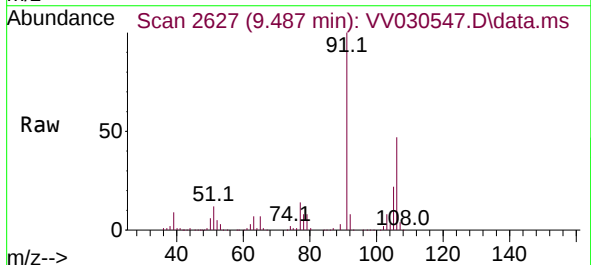
Instrument :
MSVOA_V
ClientSampleId :
BHDZ9

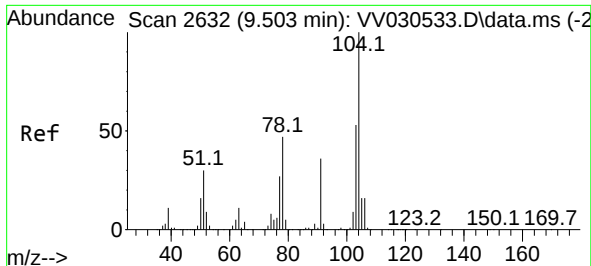
Tgt Ion:112 Resp: 22775
Ion Ratio Lower Upper
112 100
114 31.3 22.4 41.6
77 58.2 45.9 68.9



#54
o-Xylene
Concen: 2.306 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.000 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion:106 Resp: 51323
Ion Ratio Lower Upper
106 100
91 213.0 149.8 278.2

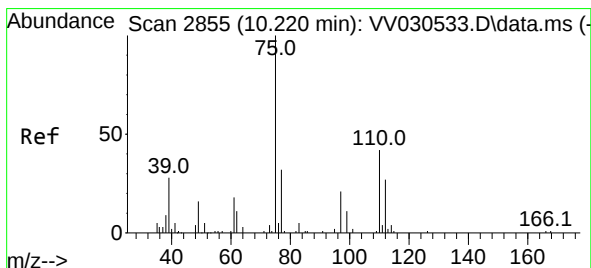
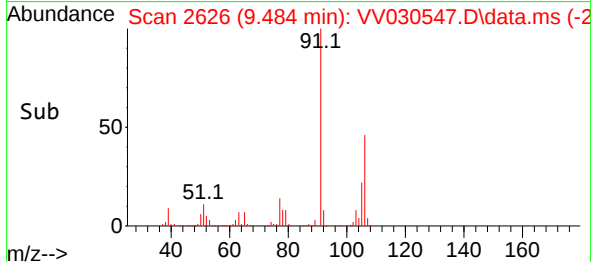
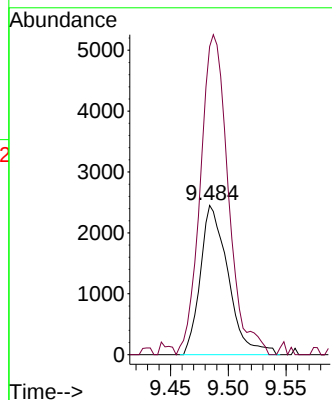
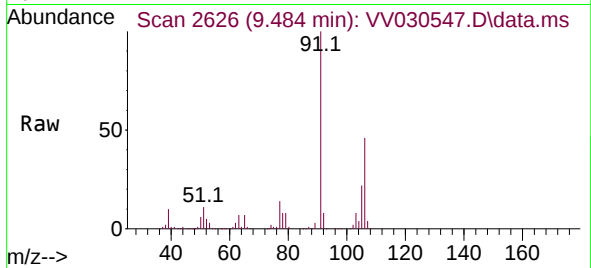




#55
Styrene
Concen: 0.109 ug/L
RT: 9.484 min Scan# 201
Delta R.T. -0.019 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

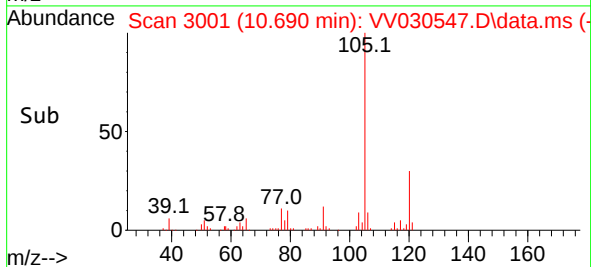
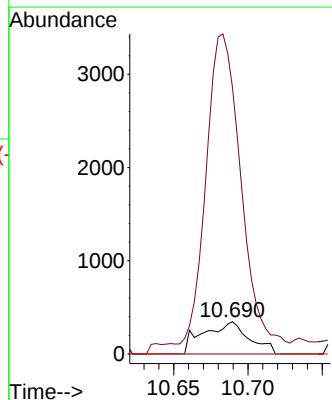
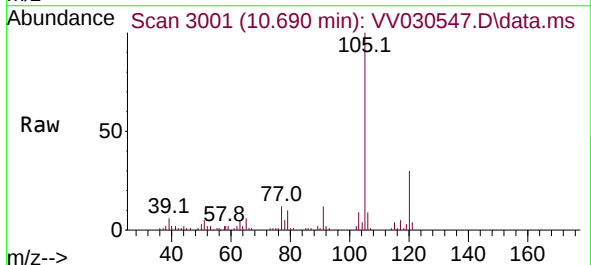
Instrument :
MSVOA_V
ClientSampleId :
BHDZ9

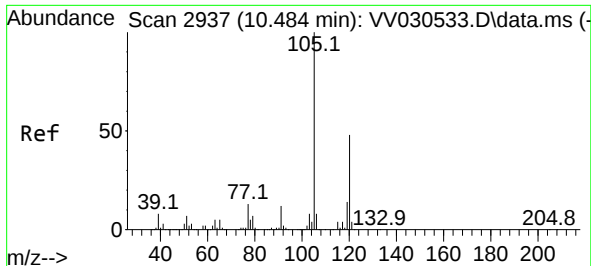
Tgt Ion:104 Resp: 4102
Ion Ratio Lower Upper
104 100
78 206.3 31.9 59.2#



#61
1,2,3-Trichloropropane
Concen: 0.121 ug/L
RT: 10.690 min Scan# 3001
Delta R.T. 0.469 min
Lab File: VV030547.D
Acq: 13 Apr 2023 15:58

Tgt Ion: 75 Resp: 738
Ion Ratio Lower Upper
75 100
77 719.4 26.0 39.0#
110 0.0 31.6 47.4#





#62

1,3,5-Trimethylbenzene

Concen: 0.918 ug/L

RT: 11.281 min Scan# 3185

Delta R.T. 0.797 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Instrument :

MSVOA_V

ClientSampleId :

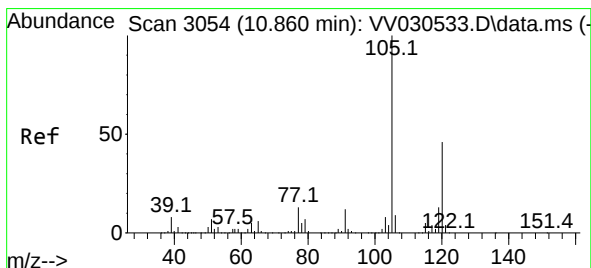
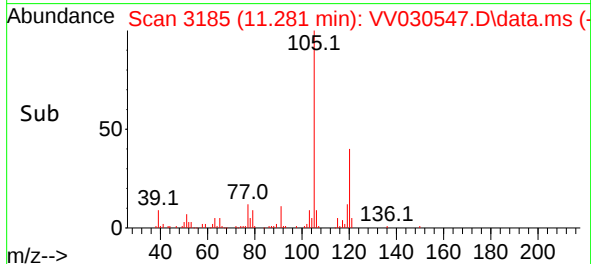
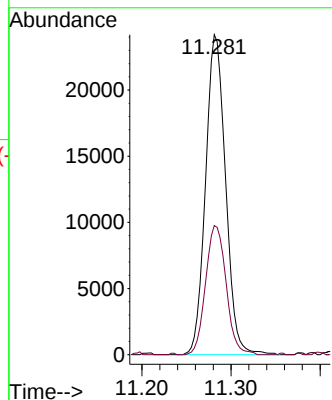
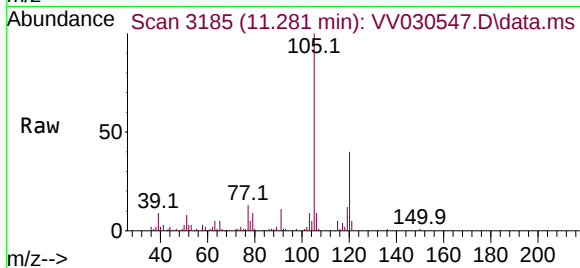
BHDZ9

Tgt Ion:105 Resp: 37683

Ion Ratio Lower Upper

105 100

120 41.4 38.9 58.3



#63

1,2,4-Trimethylbenzene

Concen: 0.900 ug/L

RT: 11.281 min Scan# 3185

Delta R.T. 0.421 min

Lab File: VV030547.D

Acq: 13 Apr 2023 15:58

Tgt Ion:105 Resp: 37683

Ion Ratio Lower Upper

105 100

120 41.4 36.8 55.2

