

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033663.D
 Acq On : 09 Jan 2023 15:14
 Operator : JC/MD
 Sample : 01059-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:47:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

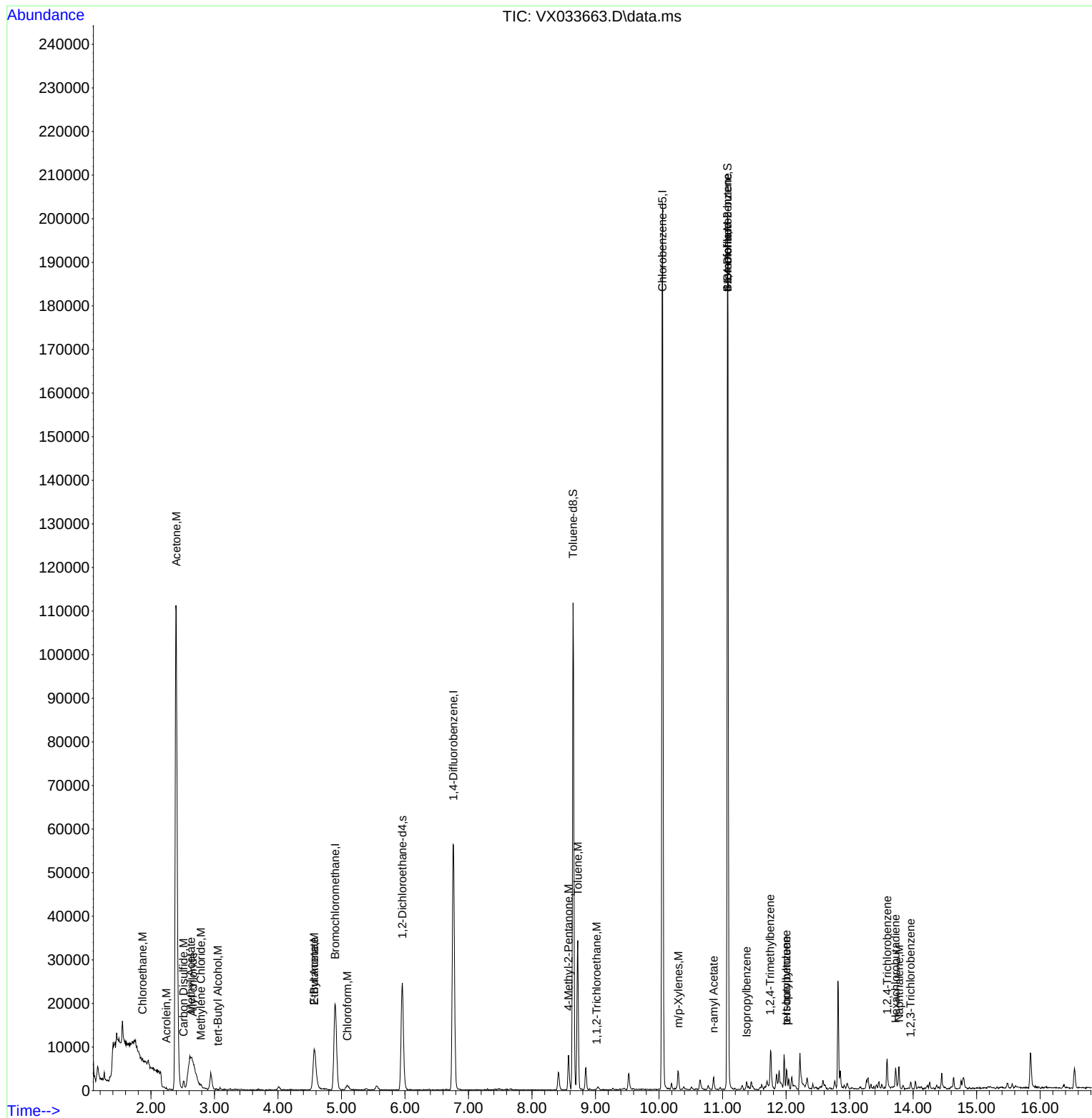
Internal Standards						
1) Bromochloromethane	4.898	128	8297	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	58820	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	95958	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	24002	35.727	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 119.100%#	
60) 4-Bromofluorobenzene	11.079	95	51802	29.952	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.833%	
63) Toluene-d8	8.647	98	63586	20.705	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 69.033%#	
Target Compounds						
						Qvalue
6) Chloroethane	1.868	64	369	0.750	ug/l #	44
12) Methyl Acetate	2.630	43	919	0.693	ug/l #	55
13) Acrolein	2.239	56	66	0.461	ug/l #	1
15) Acetone	2.398	58	45064	455.050	ug/l	96
16) Carbon Disulfide	2.514	76	2465	1.336	ug/l	96
17) Allyl chloride	2.660	41	403	0.299	ug/l #	58
18) Methylene Chloride	2.788	84	201	0.226	ug/l #	71
23) tert-Butyl Alcohol	3.050	59	65	0.376	ug/l #	100
25) Chloroform	5.093	83	656	0.405	ug/l #	68
30) 2-Butanone	4.568	43	7786	11.726	ug/l #	96
43) Ethyl Acetate	4.568	43	7786	5.723	ug/l	98
47) n-amyl Acetate	10.860	43	655	0.360	ug/l #	38
50) 1,1,2-Trichloroethane	9.019	97	206	0.214	ug/l #	17
56) Bromoform	11.079	173	532	0.660	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	4948	2.596	ug/l	96
62) Toluene	8.720	91	21563	3.570	ug/l	100
67) m/p-Xylenes	10.305	106	1240	0.466	ug/l	95
70) Isopropylbenzene	11.378	105	1361	0.201	ug/l	95
77) t-1,4-Dichloro-2-butene	11.079	75	26038	47.146	ug/l #	3
79) tert-butylbenzene	12.006	119	2292	0.398	ug/l	71
80) 1,2,4-Trimethylbenzene	11.750	105	2618	0.472	ug/l	99
82) p-Isopropyltoluene	12.006	119	2292	0.381	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	524	0.242	ug/l	99
90) Hexachlorobutadiene	13.725	225	641	0.617	ug/l	94
91) Naphthalene	13.780	128	3210	0.505	ug/l	96
92) 1,2,3-Trichlorobenzene	13.963	180	500	0.230	ug/l	98

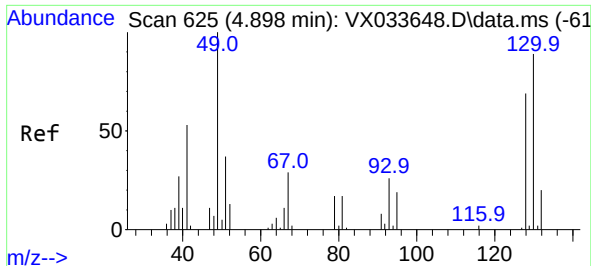
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
Data File : VX033663.D
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Sample : 01059-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

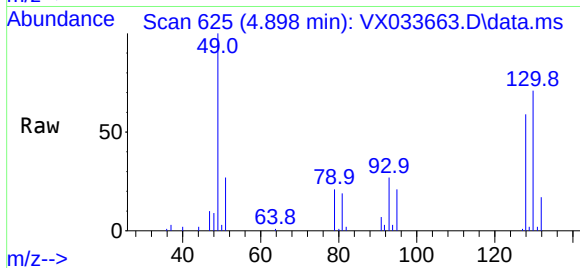
Quant Time: Jan 10 00:47:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jan 07 06:16:21 2023
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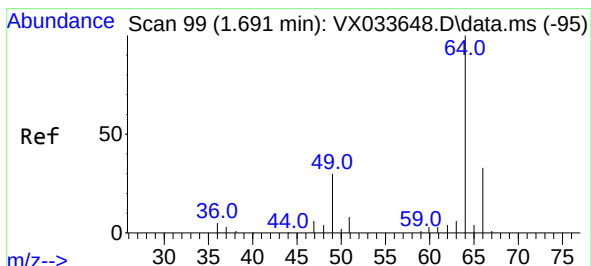
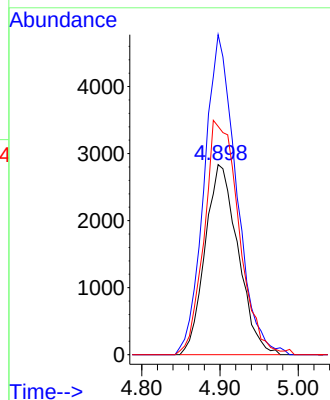
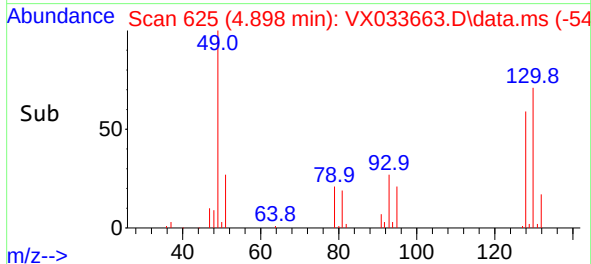


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Instrument :
MSVOA_X
ClientSampleId :

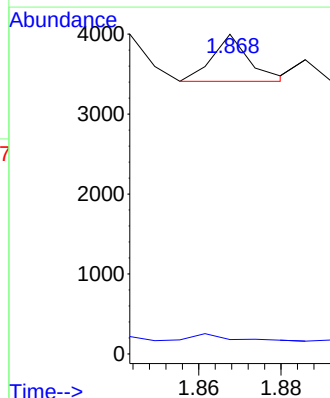
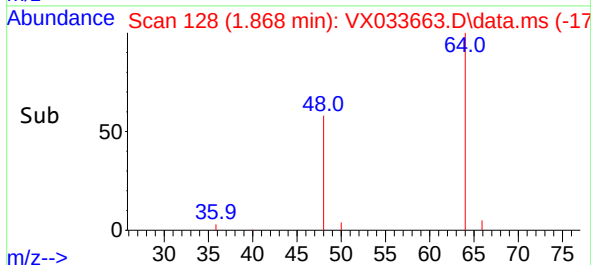
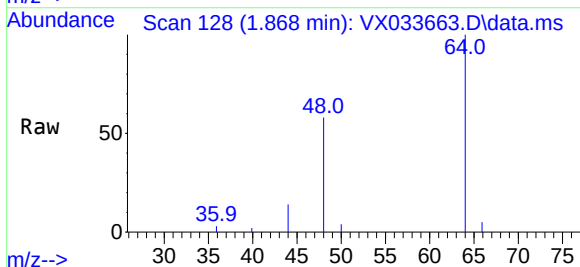


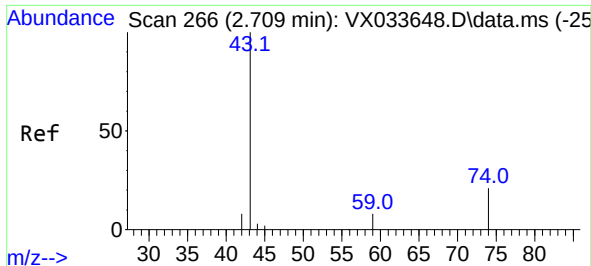
Tgt Ion:128 Resp: 8297
Ion Ratio Lower Upper
128 100
49 164.3 0.0 398.5
130 129.4 0.0 329.0



#6
Chloroethane
Concen: 0.750 ug/l
RT: 1.868 min Scan# 128
Delta R.T. 0.177 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion: 64 Resp: 369
Ion Ratio Lower Upper
64 100
66 1.4 26.6 40.0#





#12

Methyl Acetate

Concen: 0.693 ug/l

RT: 2.630 min Scan# 21

Delta R.T. -0.079 min

Lab File: VX033663.D

Acq: 09 Jan 2023 15:14

Instrument :

MSVOA_X

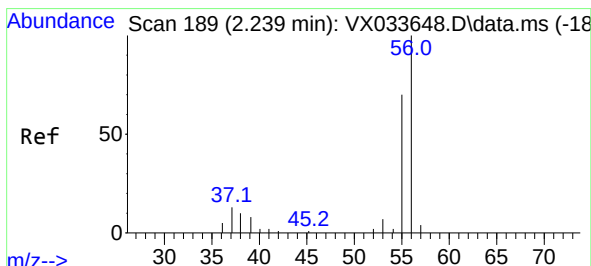
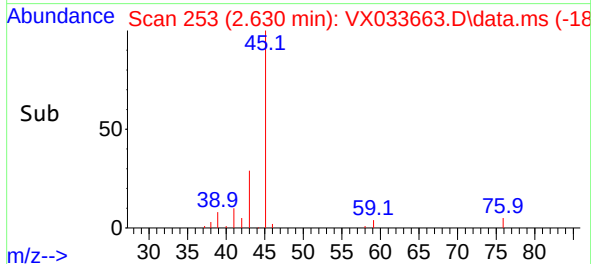
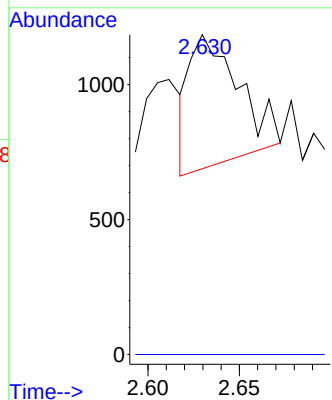
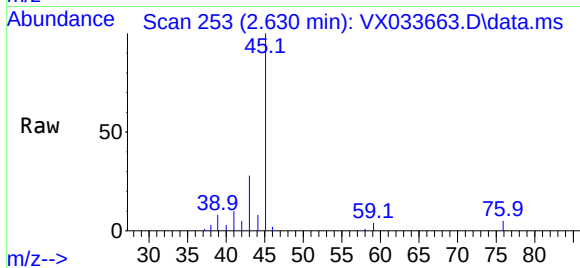
ClientSampleId :

Tgt Ion: 43 Resp: 919

Ion Ratio Lower Upper

43 100

74 0.0 17.0 25.6#



#13

Acrolein

Concen: 0.461 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX033663.D

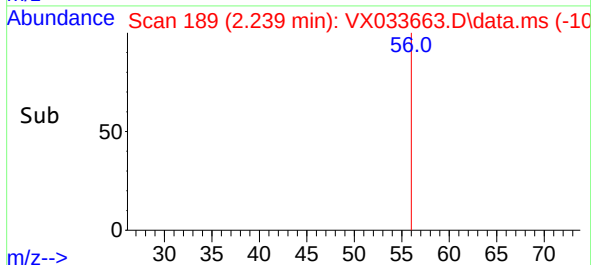
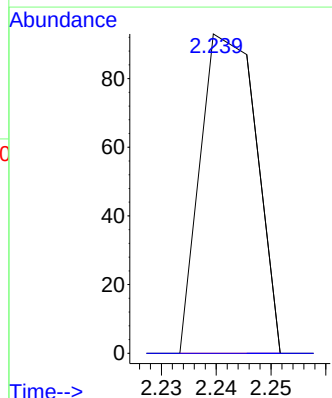
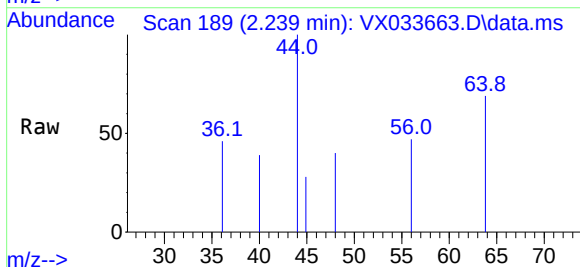
Acq: 09 Jan 2023 15:14

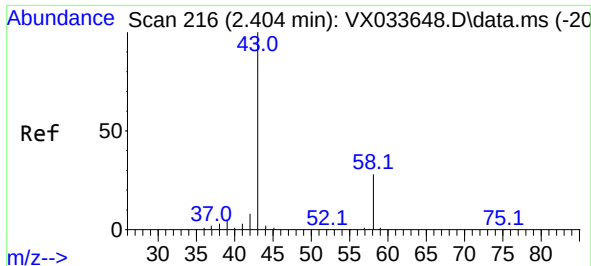
Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

55 298.5 56.1 84.1#

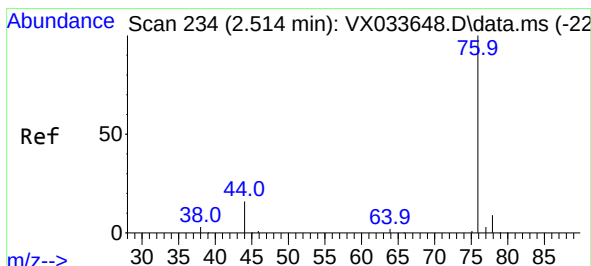
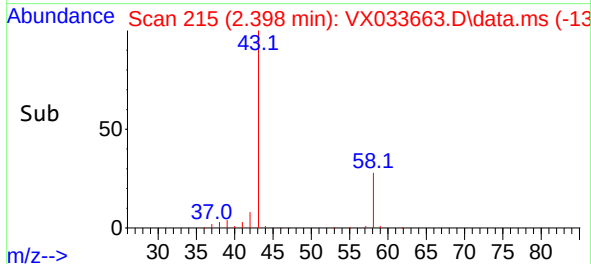
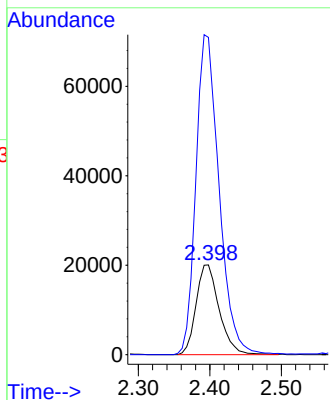
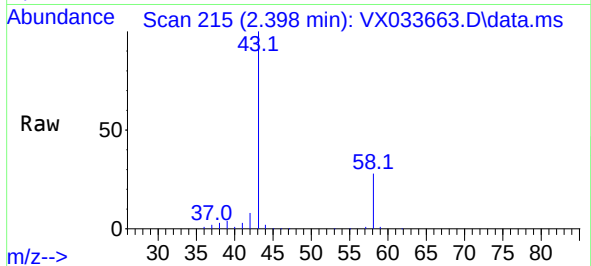




#15
Acetone
Concen: 455.050 ug/l
RT: 2.398 min Scan# 216
Delta R.T. -0.006 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

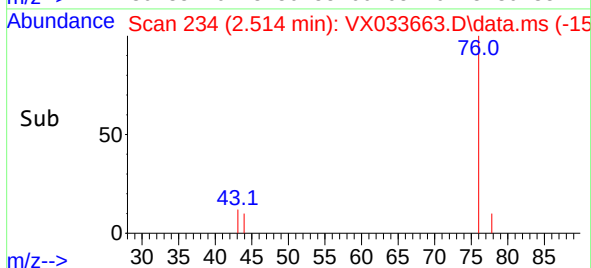
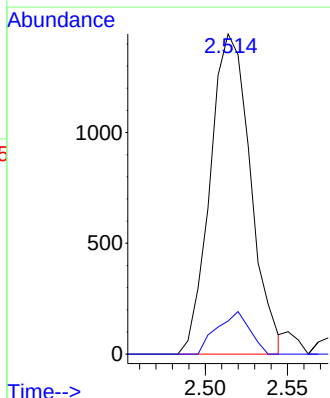
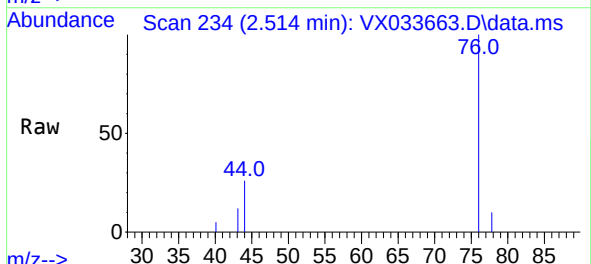
Instrument :
MSVOA_X
ClientSampleId :

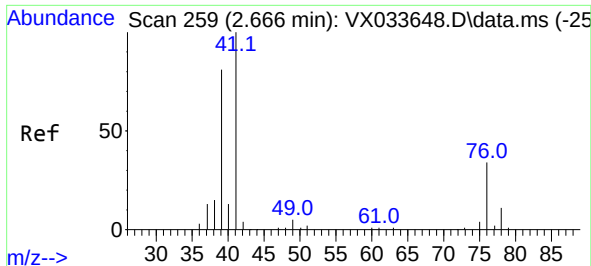
Tgt Ion: 58 Resp: 45064
Ion Ratio Lower Upper
58 100
43 351.9 288.3 432.5



#16
Carbon Disulfide
Concen: 1.336 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion: 76 Resp: 2465
Ion Ratio Lower Upper
76 100
78 10.3 7.0 10.4





#17

Allyl chloride

Concen: 0.299 ug/l

RT: 2.660 min Scan# 21

Delta R.T. -0.006 min

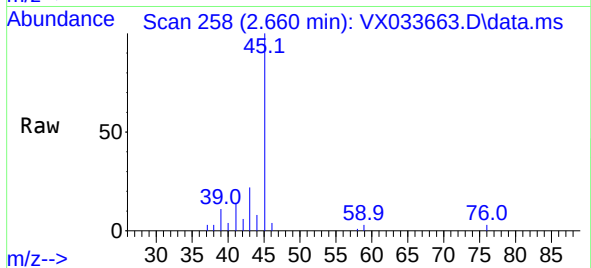
Lab File: VX033663.D

Acq: 09 Jan 2023 15:14

Instrument :

MSVOA_X

ClientSampleId :



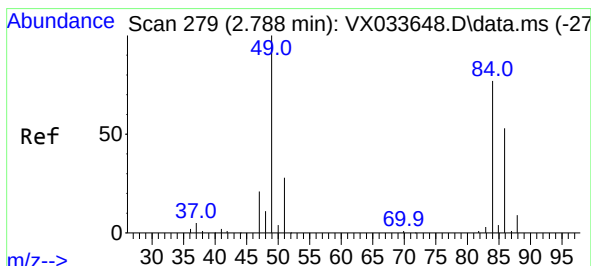
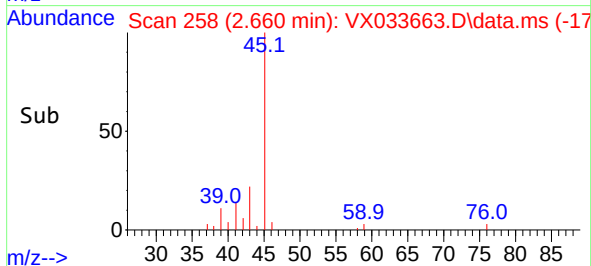
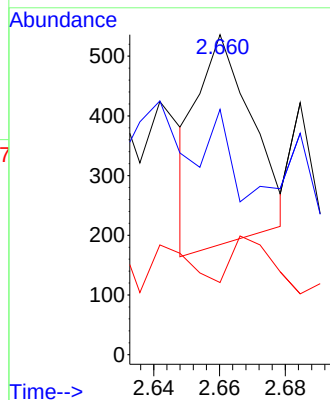
Tgt Ion: 41 Resp: 403

Ion Ratio Lower Upper

41 100

39 49.8 40.3 120.8

76 0.0 17.0 50.9#



#18

Methylene Chloride

Concen: 0.226 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX033663.D

Acq: 09 Jan 2023 15:14

Tgt Ion: 84 Resp: 201

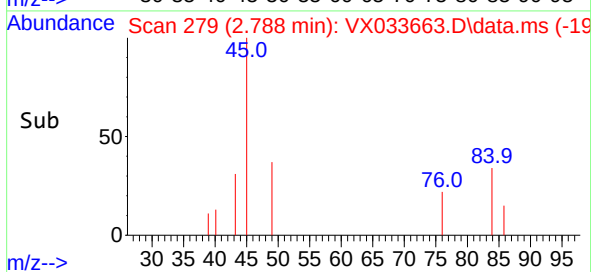
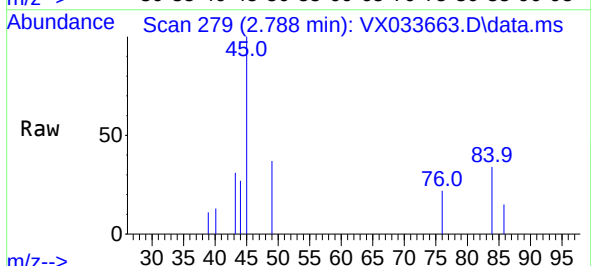
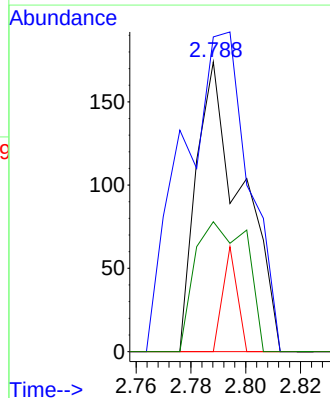
Ion Ratio Lower Upper

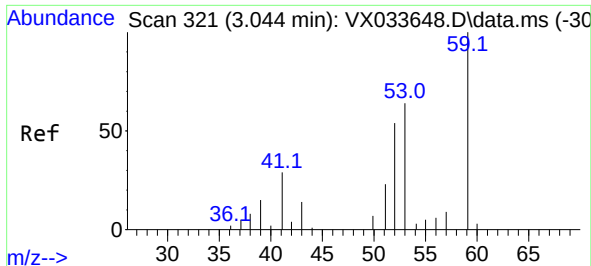
84 100

49 108.6 104.1 156.1

51 0.0 29.2 43.8#

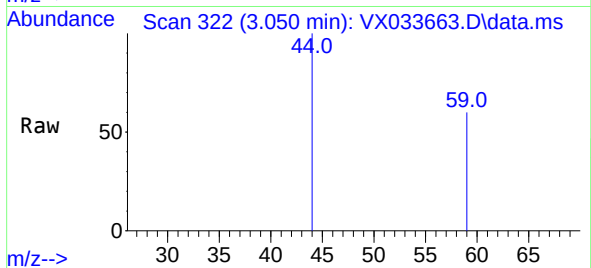
86 44.8 55.4 83.2#



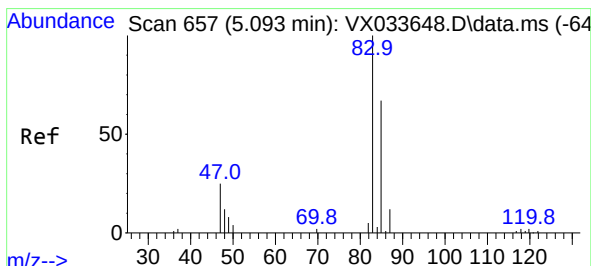
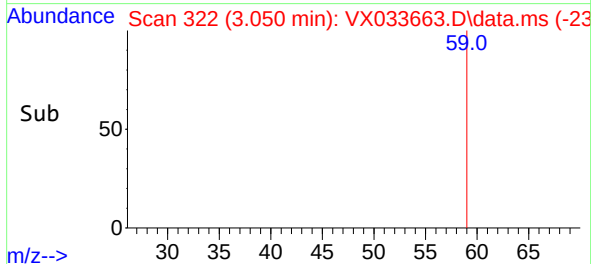
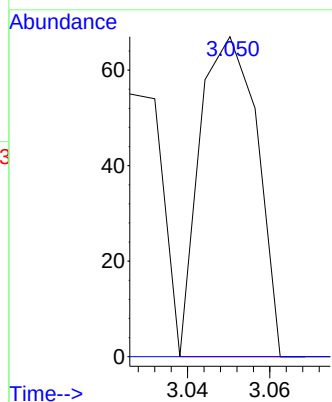


#23
tert-Butyl Alcohol
Concen: 0.376 ug/l
RT: 3.050 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Instrument :
MSVOA_X
ClientSampleId :

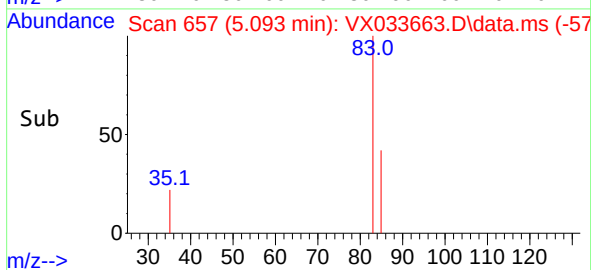
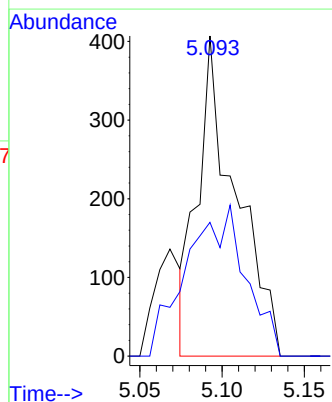
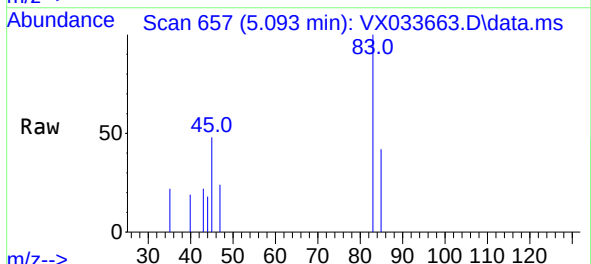


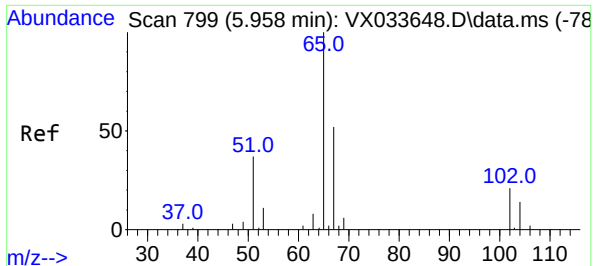
Tgt Ion: 59 Resp: 65
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 0.405 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion: 83 Resp: 656
Ion Ratio Lower Upper
83 100
85 41.8 53.9 80.9#

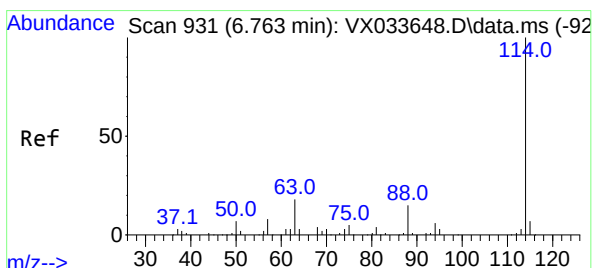
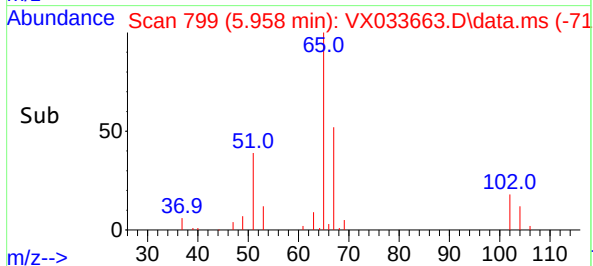
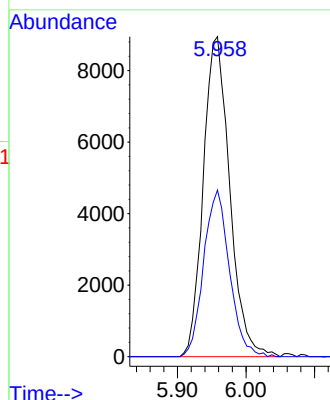
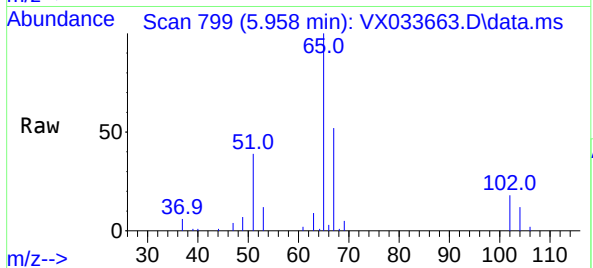




#27
1,2-Dichloroethane-d4
Concen: 35.727 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

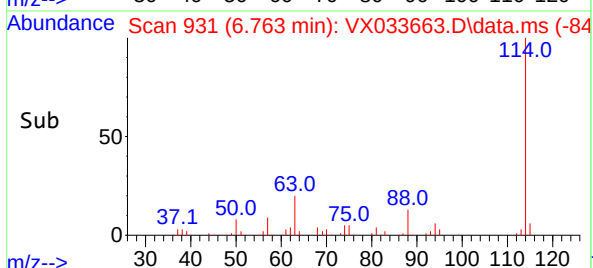
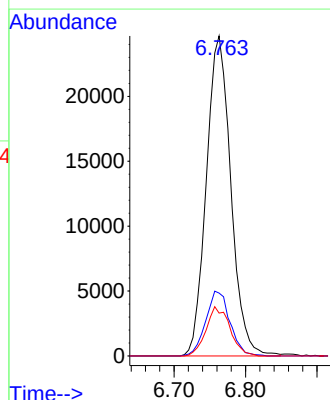
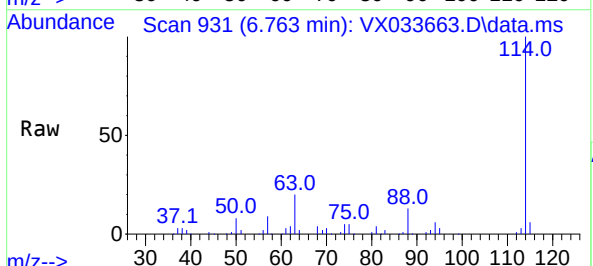
Instrument :
MSVOA_X
ClientSampleId :

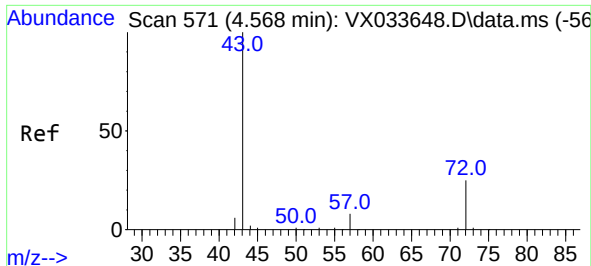
Tgt Ion: 65 Resp: 24002
Ion Ratio Lower Upper
65 100
67 50.5 40.4 60.6



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

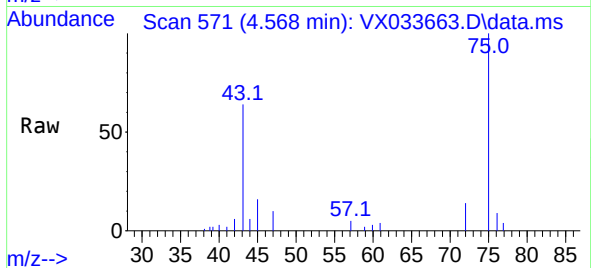
Tgt Ion: 114 Resp: 58820
Ion Ratio Lower Upper
114 100
63 19.9 15.5 23.3
88 15.0 12.4 18.6



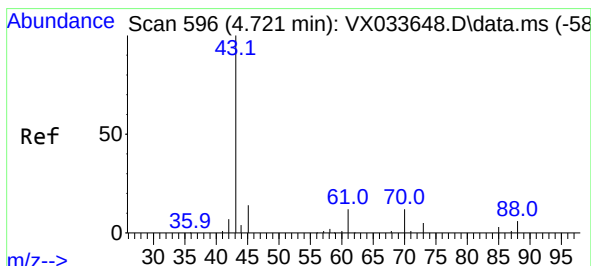
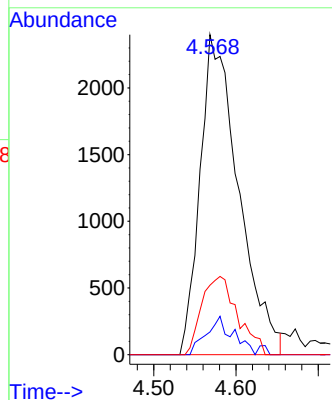
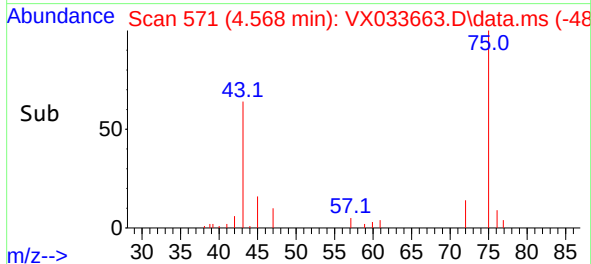


#30
2-Butanone
Concen: 11.726 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Instrument :
MSVOA_X
ClientSampleId :

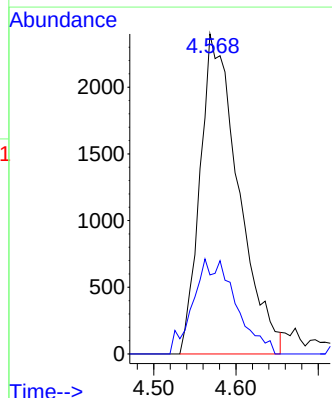
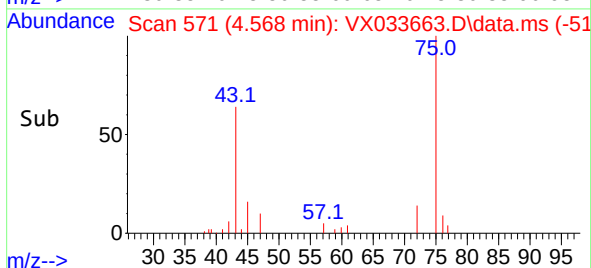
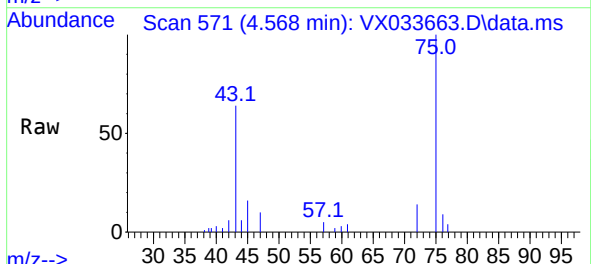


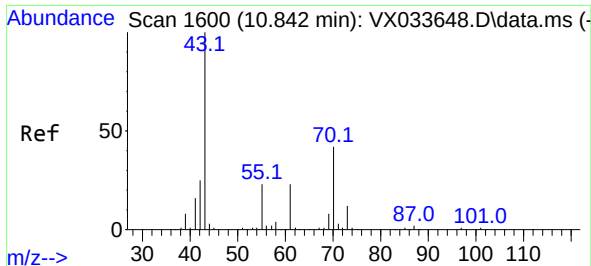
Tgt Ion: 43 Resp: 7786
Ion Ratio Lower Upper
43 100
57 6.2 3.4 5.2#
72 22.9 19.8 29.6



#43
Ethyl Acetate
Concen: 5.723 ug/l
RT: 4.568 min Scan# 571
Delta R.T. -0.152 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion: 43 Resp: 7786
Ion Ratio Lower Upper
43 100
45 13.1 11.2 16.8





#47

n-amy1 Acetate

Concen: 0.360 ug/l

RT: 10.860 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX033663.D

Acq: 09 Jan 2023 15:14

Instrument :

MSVOA_X

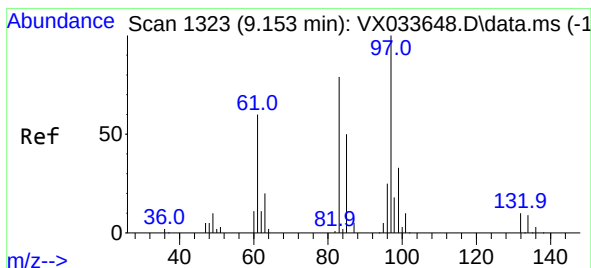
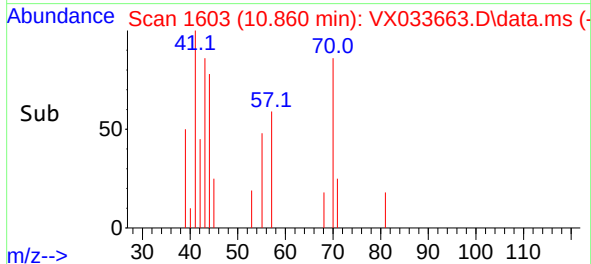
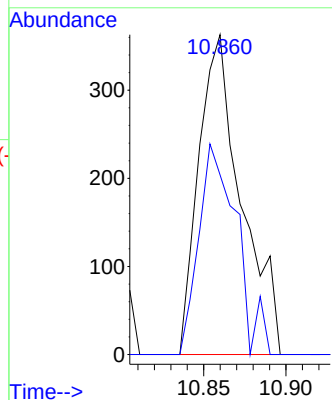
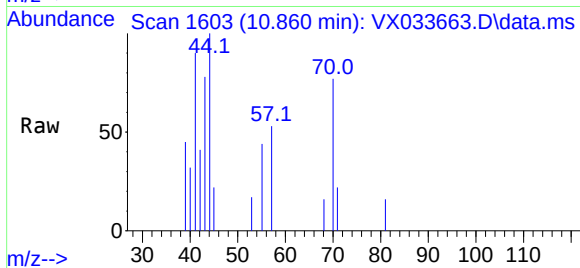
ClientSampleId :

Tgt Ion: 43 Resp: 655

Ion Ratio Lower Upper

43 100

55 54.5 19.3 28.9#



#50

1,1,2-Trichloroethane

Concen: 0.214 ug/l

RT: 9.019 min Scan# 1301

Delta R.T. -0.134 min

Lab File: VX033663.D

Acq: 09 Jan 2023 15:14

Tgt Ion: 97 Resp: 206

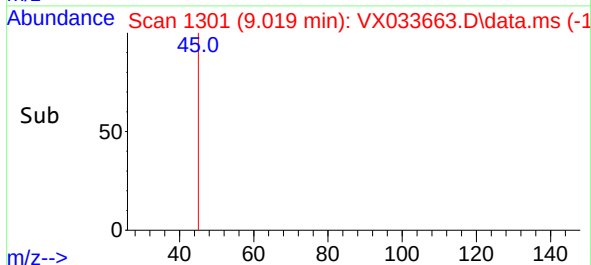
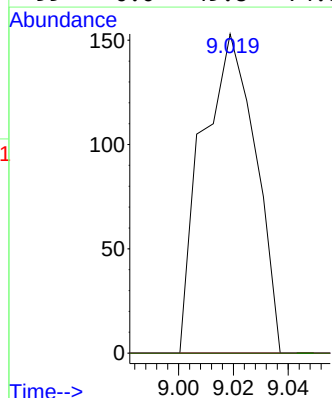
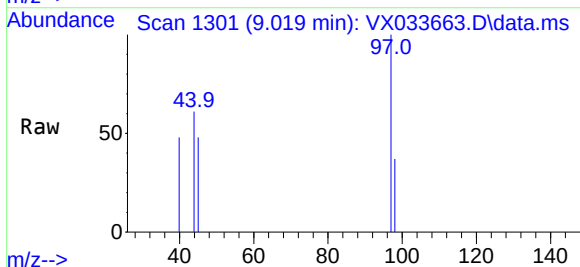
Ion Ratio Lower Upper

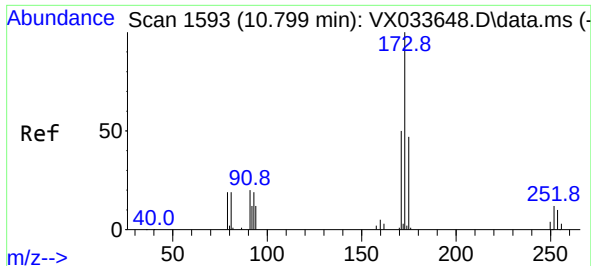
97 100

83 0.0 63.0 94.4#

85 0.0 42.8 64.2#

99 0.0 49.8 74.8#

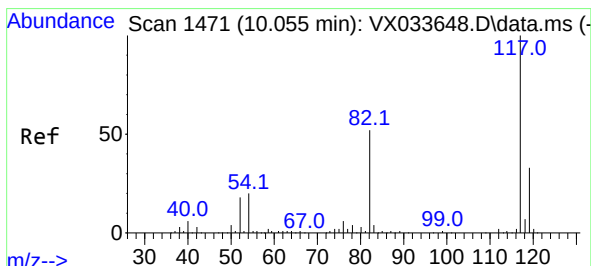
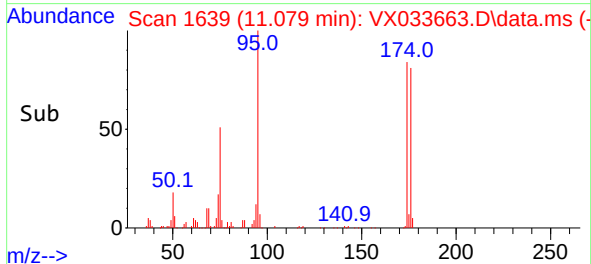
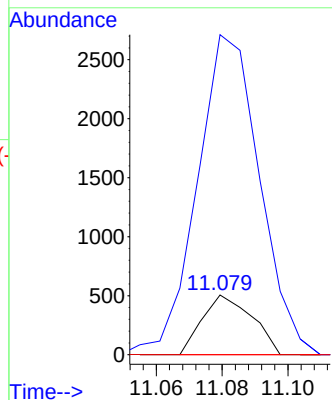
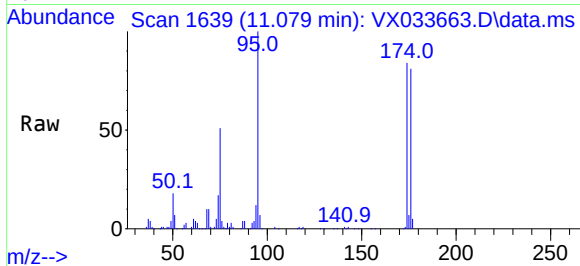




#56
Bromoform
Concen: 0.660 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.280 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

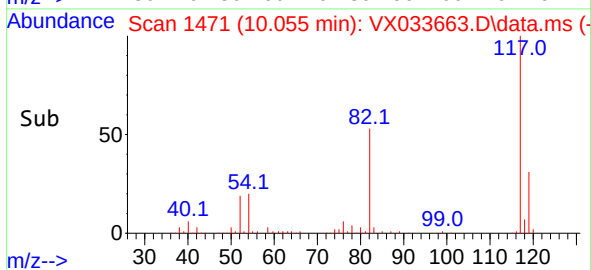
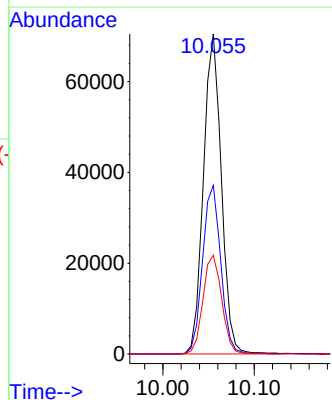
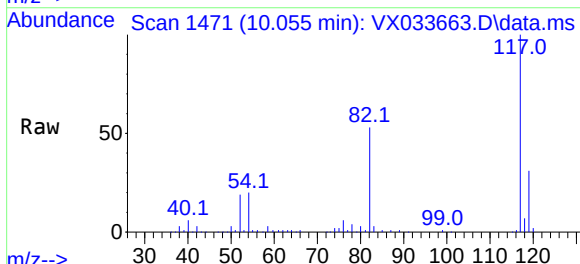
Instrument :
MSVOA_X
ClientSampleId :

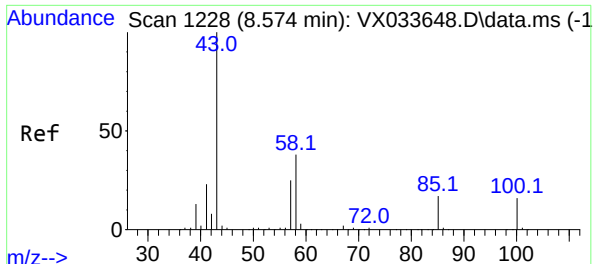
Tgt Ion:173 Resp: 532
Ion Ratio Lower Upper
173 100
175 673.9 38.2 57.4#
254 0.0 8.6 13.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion:117 Resp: 95958
Ion Ratio Lower Upper
117 100
82 53.2 41.9 62.9
119 32.2 25.6 38.4

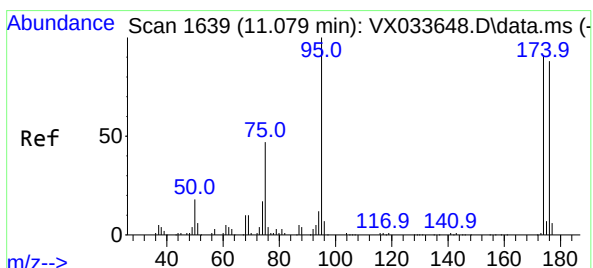
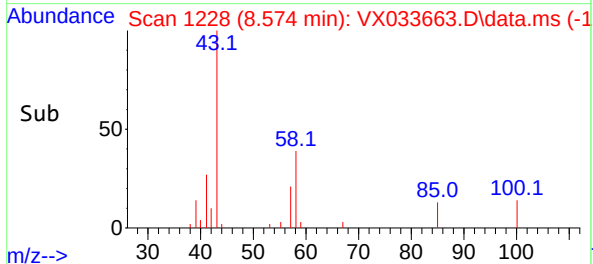
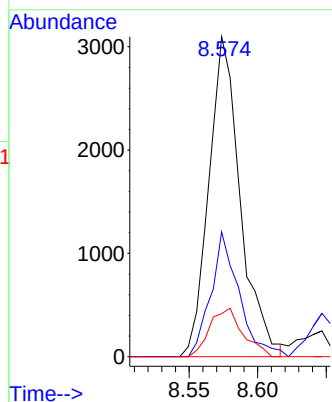
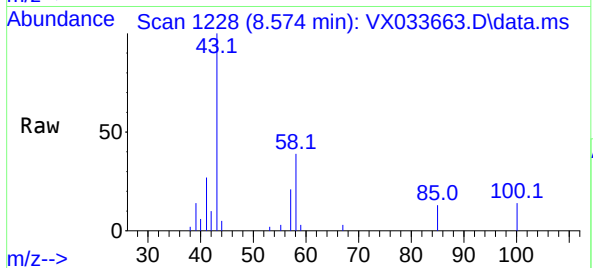




#58
4-Methyl-2-Pentanone
Concen: 2.596 ug/l
RT: 8.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

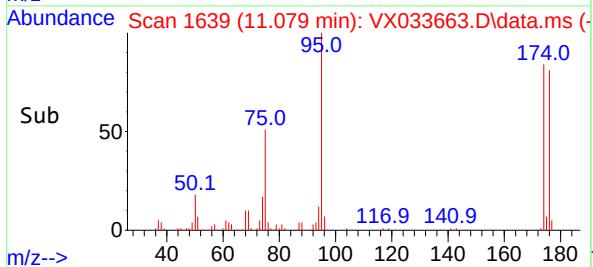
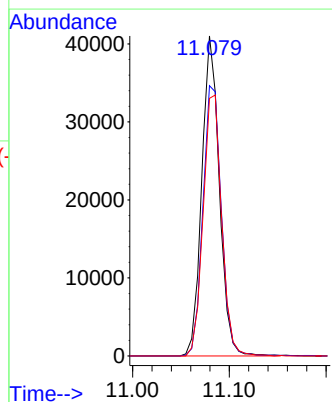
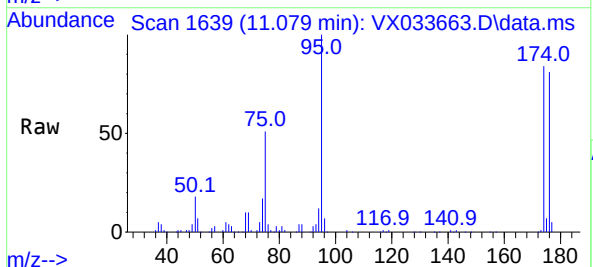
Instrument :
MSVOA_X
ClientSampleId :

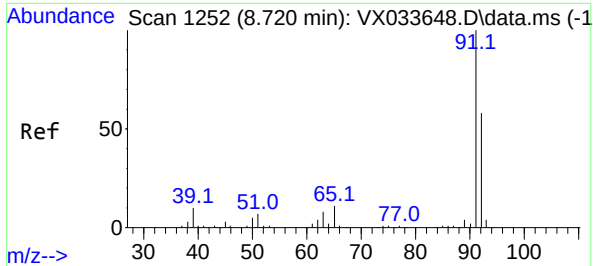
Tgt Ion:	43	Resp:	4948
Ion	Ratio	Lower	Upper
43	100		
58	34.9	30.2	45.4
85	15.9	13.8	20.8



#60
4-Bromofluorobenzene
Concen: 29.952 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion:	95	Resp:	51802
Ion	Ratio	Lower	Upper
95	100		
174	88.7	73.7	110.5
176	86.2	71.0	106.4

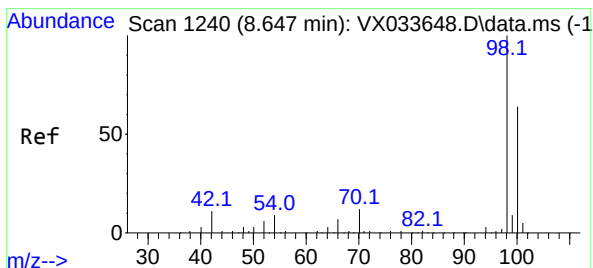
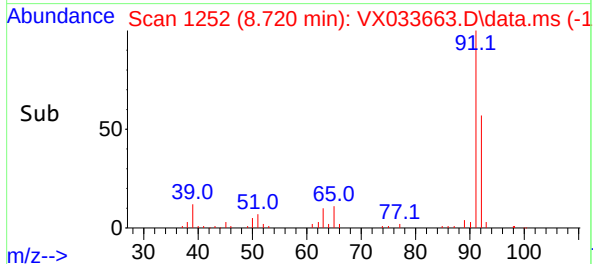
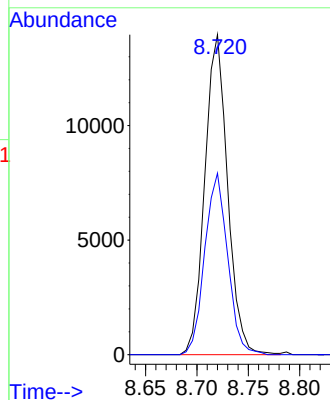
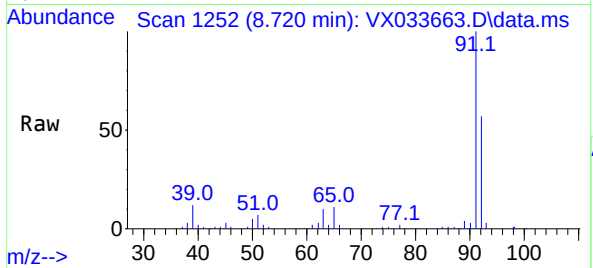




#62
Toluene
Concen: 3.570 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

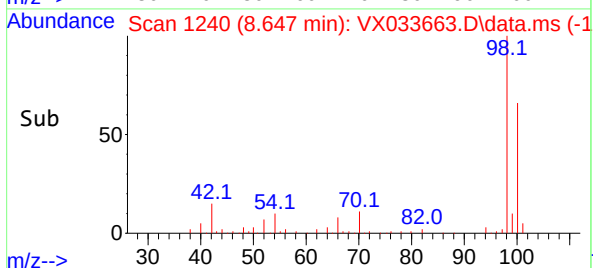
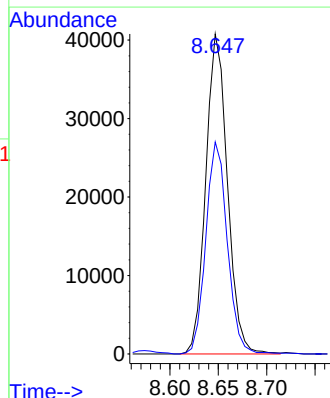
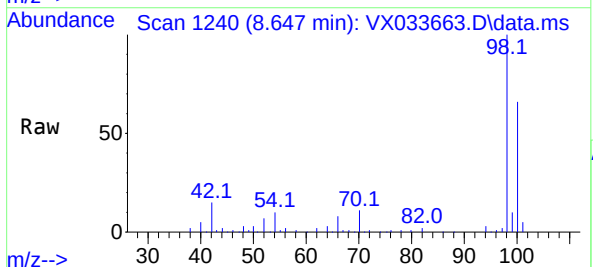
Instrument :
MSVOA_X
ClientSampleId :

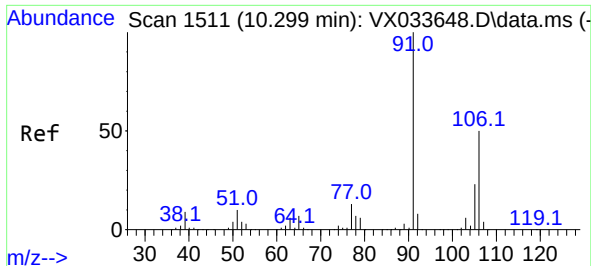
Tgt Ion: 91 Resp: 21563
Ion Ratio Lower Upper
91 100
92 57.0 45.8 68.8



#63
Toluene-d8
Concen: 20.705 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion: 98 Resp: 63586
Ion Ratio Lower Upper
98 100
100 65.5 53.1 79.7





#67

m/p-Xylenes

Concen: 0.466 ug/l

RT: 10.305 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX033663.D

Acq: 09 Jan 2023 15:14

Instrument :

MSVOA_X

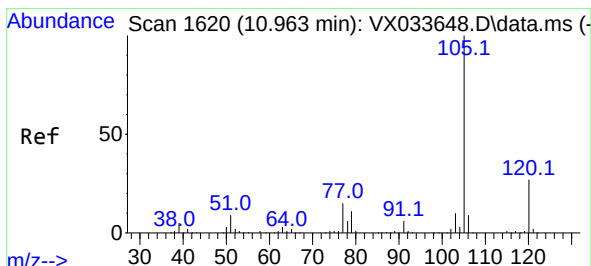
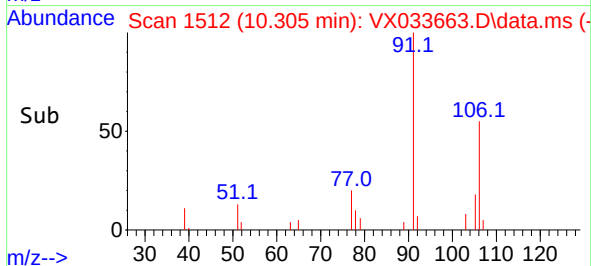
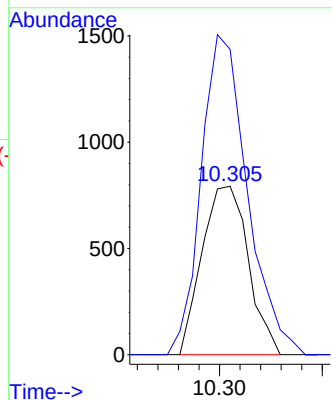
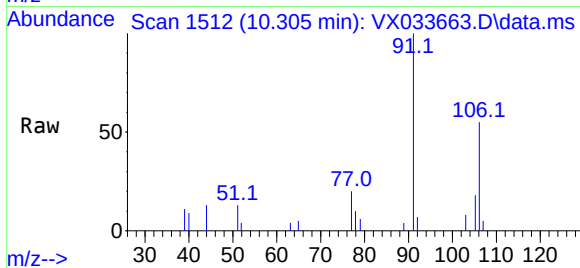
ClientSampleId :

Tgt Ion:106 Resp: 1240

Ion Ratio Lower Upper

106 100

91 189.4 157.3 235.9



#70

Isopropylbenzene

Concen: 0.201 ug/l

RT: 11.378 min Scan# 1688

Delta R.T. 0.415 min

Lab File: VX033663.D

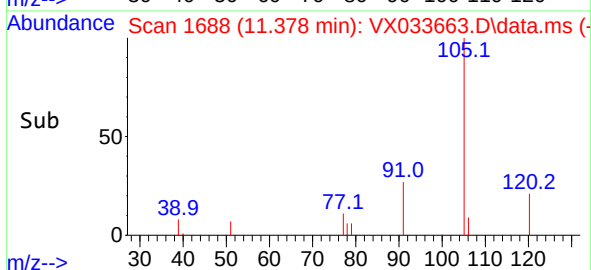
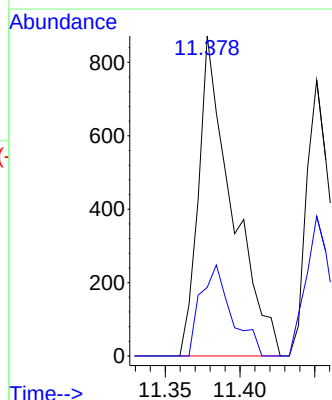
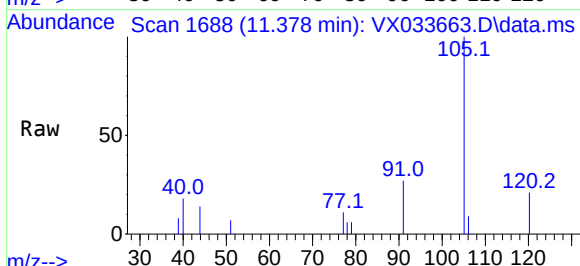
Acq: 09 Jan 2023 15:14

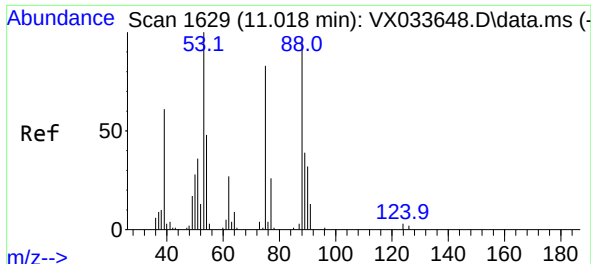
Tgt Ion:105 Resp: 1361

Ion Ratio Lower Upper

105 100

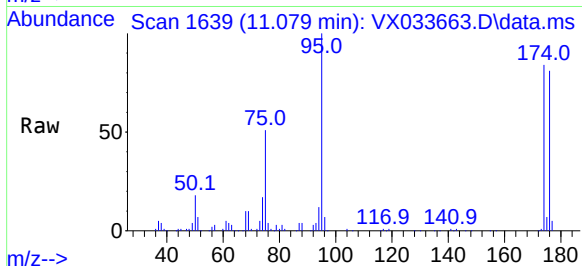
120 24.3 18.7 34.7



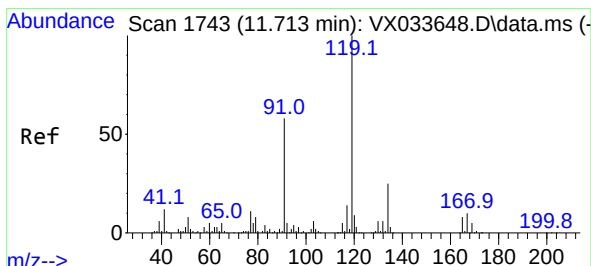
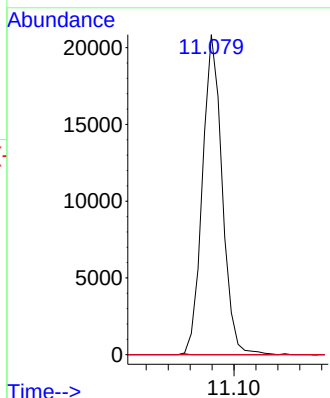
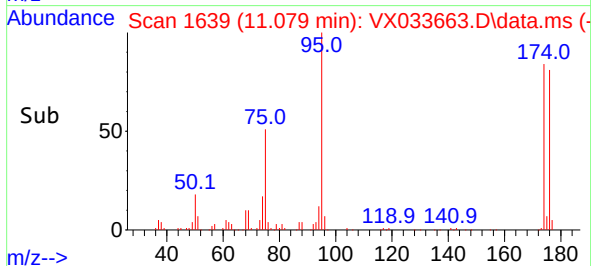


#77
t-1,4-Dichloro-2-butene
Concen: 47.146 ug/l
RT: 11.079 min Scan# 1791
Delta R.T. 0.061 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

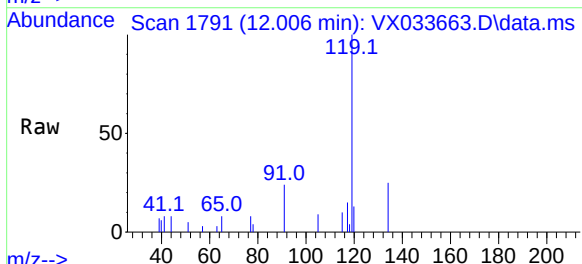
Instrument :
MSVOA_X
ClientSampleId :



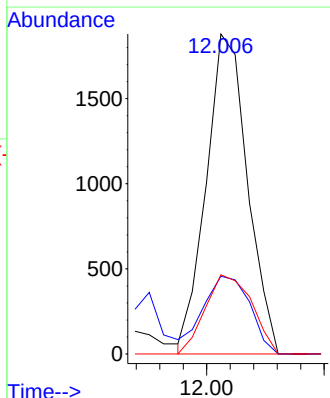
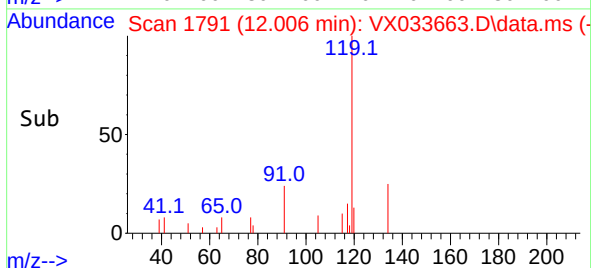
Tgt Ion: 75 Resp: 26038
Ion Ratio Lower Upper
75 100
53 0.0 60.2 180.6#
89 0.0 23.2 69.6#

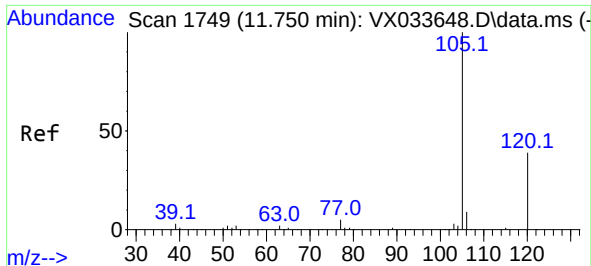


#79
tert-butylbenzene
Concen: 0.398 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14



Tgt Ion: 119 Resp: 2292
Ion Ratio Lower Upper
119 100
91 27.7 0.0 111.0
134 28.0 0.0 49.2

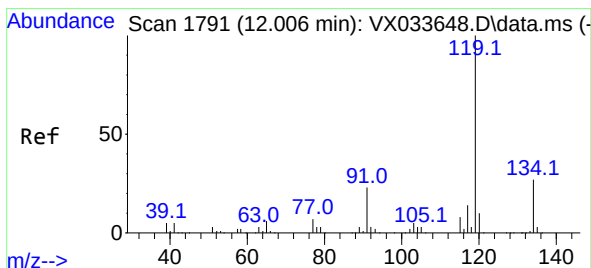
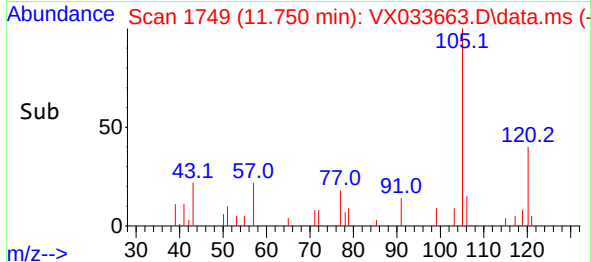
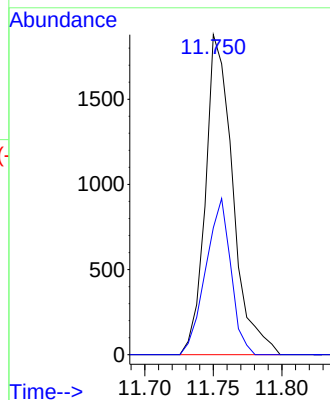
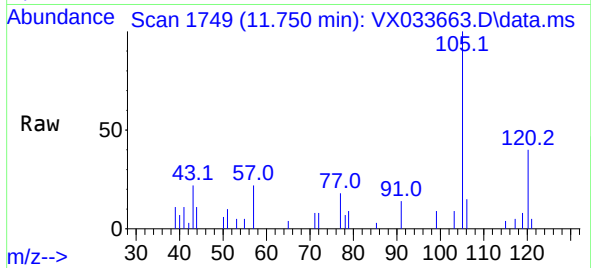




#80
1,2,4-Trimethylbenzene
Concen: 0.472 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

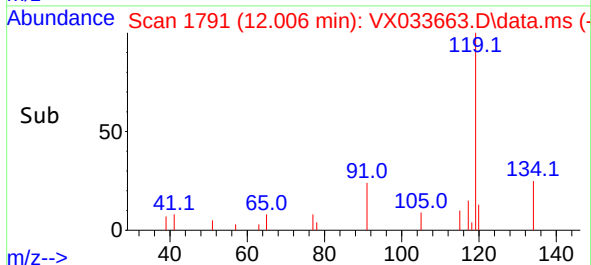
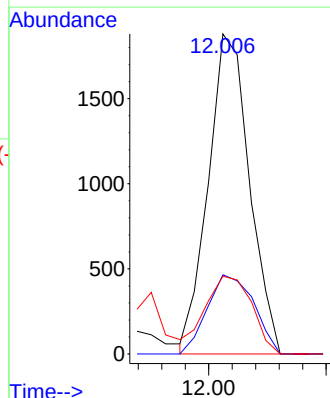
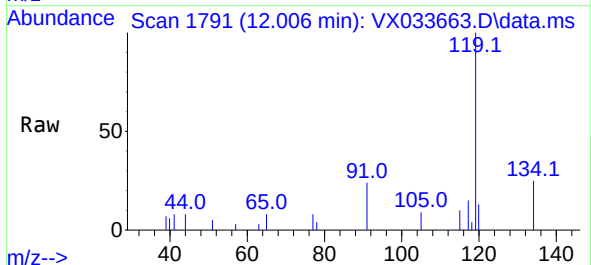
Instrument :
MSVOA_X
ClientSampleId :

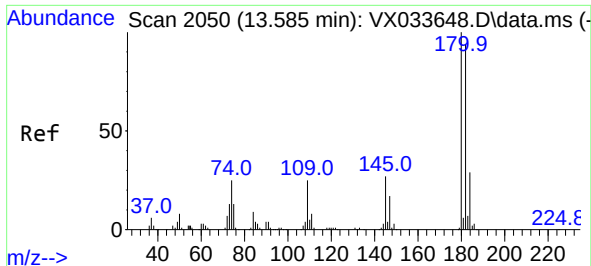
Tgt Ion:105 Resp: 2618
Ion Ratio Lower Upper
105 100
120 44.8 0.0 91.2



#82
p-Isopropyltoluene
Concen: 0.381 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

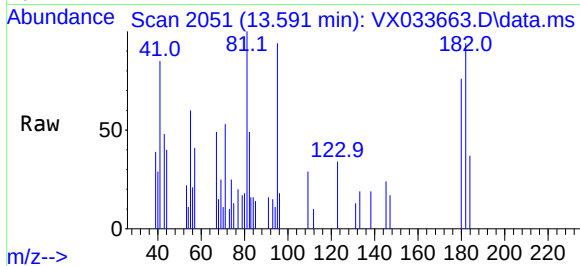
Tgt Ion:119 Resp: 2292
Ion Ratio Lower Upper
119 100
134 28.0 0.0 54.4
91 27.7 0.0 45.2





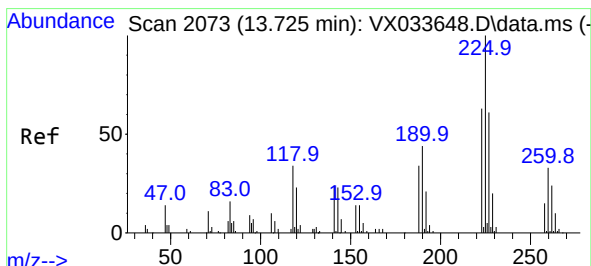
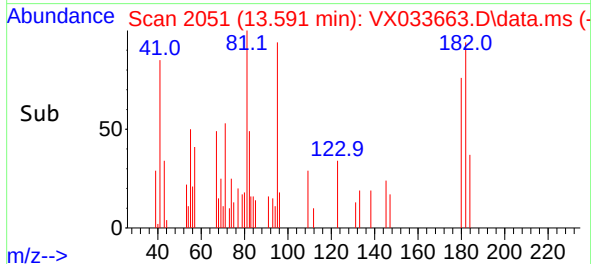
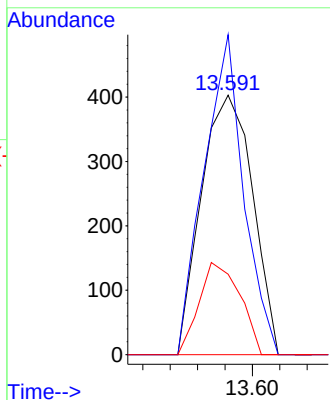
#89
1,2,4-Trichlorobenzene
Concen: 0.242 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:180 Resp: 524

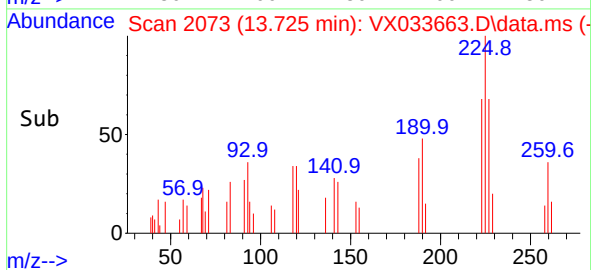
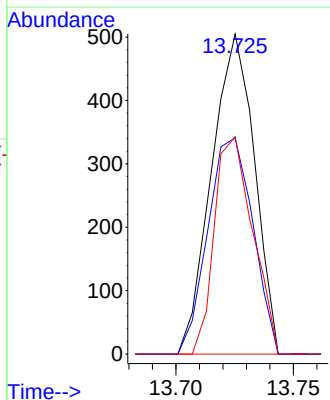
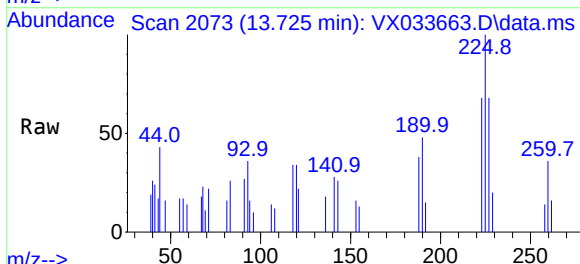
Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.7	115.1
145	28.4	21.8	32.6

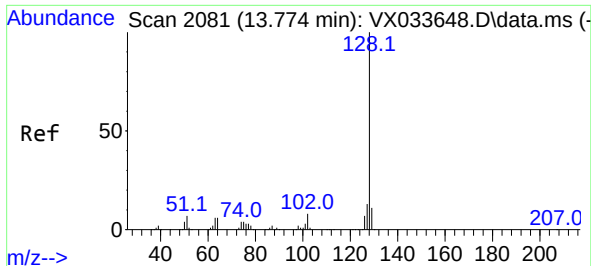


#90
Hexachlorobutadiene
Concen: 0.617 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion:225 Resp: 641

Ion	Ratio	Lower	Upper
225	100		
223	71.0	0.0	127.0
227	60.5	0.0	123.0

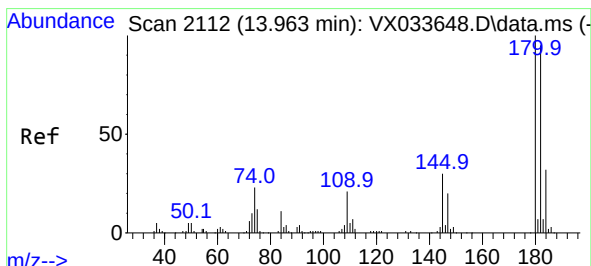
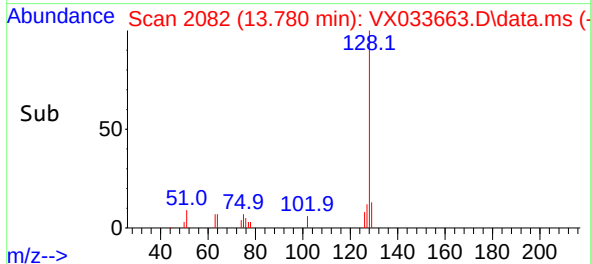
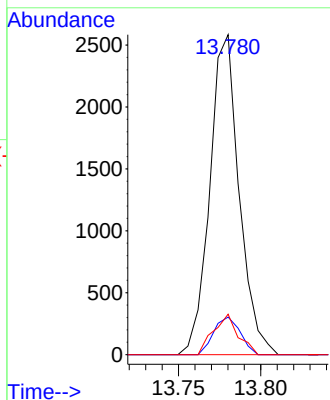
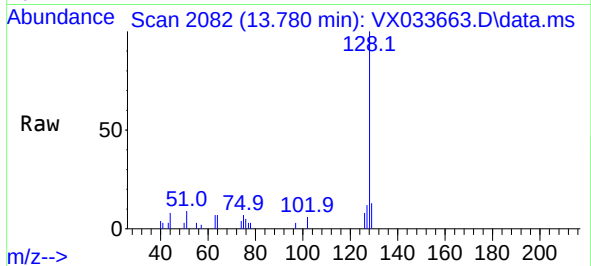




#91
Naphthalene
Concen: 0.505 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:128	Resp:	3210
Ion Ratio	Lower	Upper
128	100	
127	10.6	10.4 15.6
129	10.6	8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 0.230 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX033663.D
Acq: 09 Jan 2023 15:14

Tgt Ion:180	Resp:	500
Ion Ratio	Lower	Upper
180	100	
182	97.0	0.0 191.2
145	31.8	0.0 60.4

