

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
 Data File : VX043070.D
 Acq On : 16 Aug 2024 12:52
 Operator : JC/MD
 Sample : P3606-05DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 16 23:54:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 13 13:22:56 2024
 Response via : Initial Calibration

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

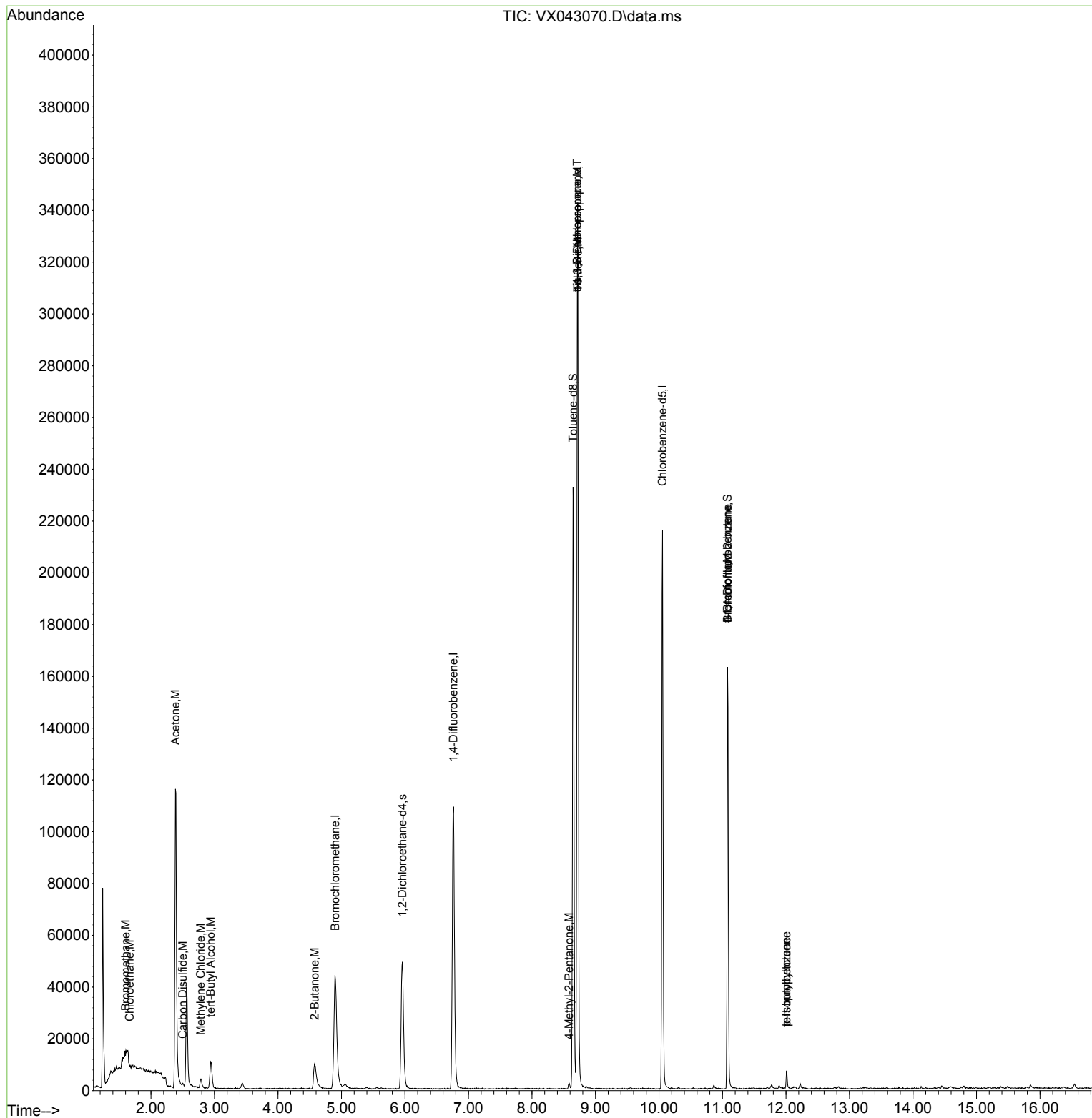
Internal Standards						
1) Bromochloromethane	4.898	128	19967	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	115974	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100284	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	45346	28.056	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.533%		
60) 4-Bromofluorobenzene	11.079	95	44783	26.305	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	87.700%		
63) Toluene-d8	8.647	98	139512	30.284	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.933%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	135	0.323	ug/l #	14
6) Chloroethane	1.666	64	546	1.287	ug/l #	65
15) Acetone	2.386	58	42282	160.579	ug/l	87
16) Carbon Disulfide	2.502	76	1353	0.333	ug/l	97
18) Methylene Chloride	2.782	84	974	0.611	ug/l #	90
23) tert-Butyl Alcohol	2.941	59	6265	15.245	ug/l #	100
30) 2-Butanone	4.574	43	18383	14.414	ug/l	98
48) t-1,3-Dichloropropene	8.714	75	1522	0.698	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	1522	0.640	ug/l #	1
56) Bromoform	11.079	173	395	0.384	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	1644	0.709	ug/l #	86
62) Toluene	8.720	91	229415	40.048	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	22351	25.846	ug/l #	11
79) tert-butylbenzene	12.006	119	3472	0.715	ug/l	63
82) p-Isopropyltoluene	12.006	119	3472	0.700	ug/l	99

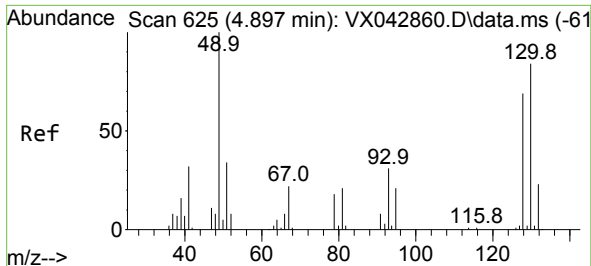
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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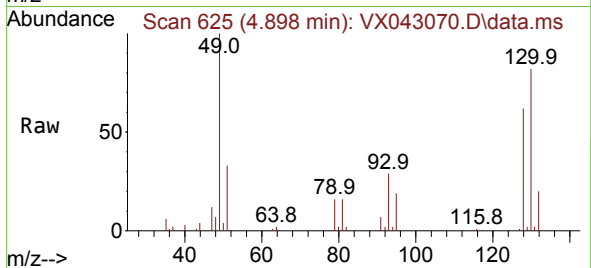
Quant Time: Aug 16 23:54:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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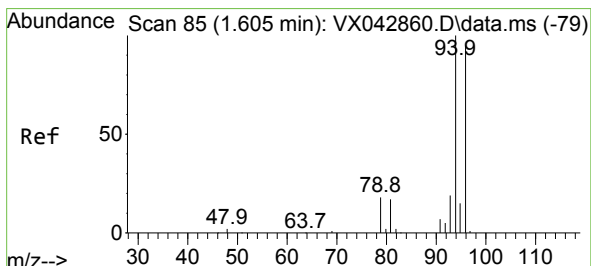
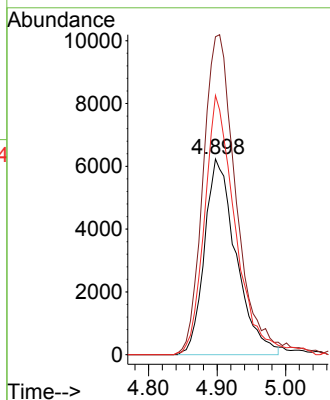
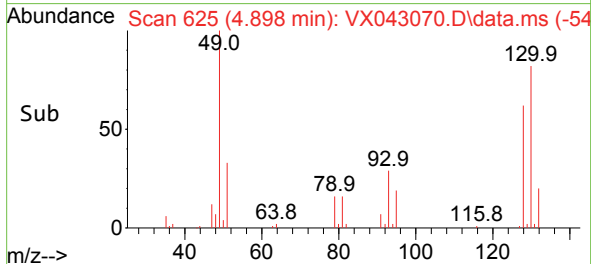


#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 4.898 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VX043070.D
 Acq: 16 Aug 2024 12:52

Instrument :
 MSVOA_X
 ClientSampleId :

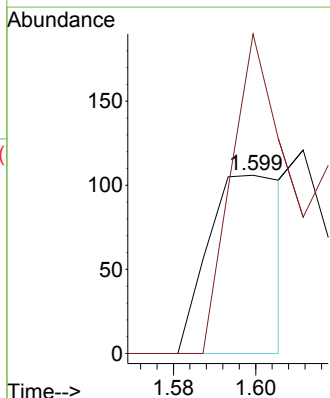
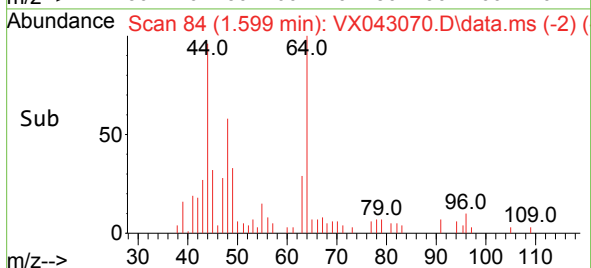
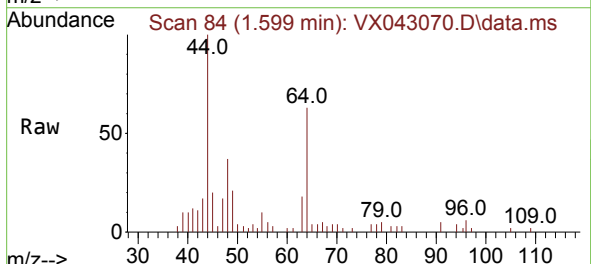


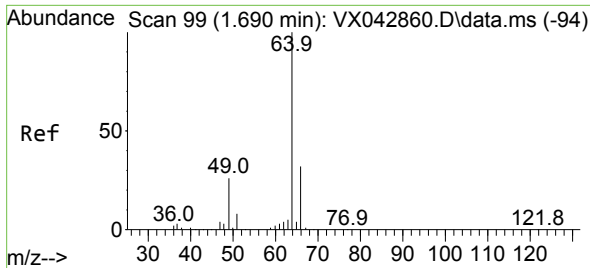
Tgt Ion:	128	Resp:	19967
Ion	Ratio	Lower	Upper
128	100		
49	171.2	0.0	400.5
130	128.4	0.0	333.0



#5
 Bromomethane
 Concen: 0.323 ug/l
 RT: 1.599 min Scan# 84
 Delta R.T. 0.000 min
 Lab File: VX043070.D
 Acq: 16 Aug 2024 12:52

Tgt Ion:	94	Resp:	135
Ion	Ratio	Lower	Upper
94	100		
96	179.2	76.2	114.4#

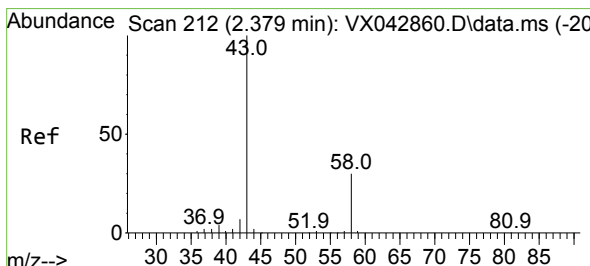
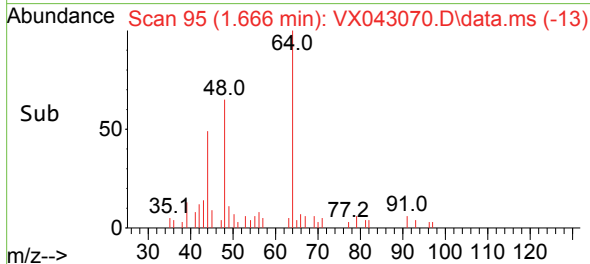
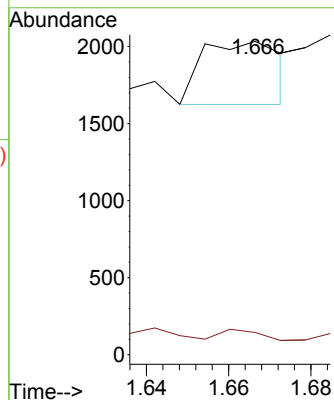
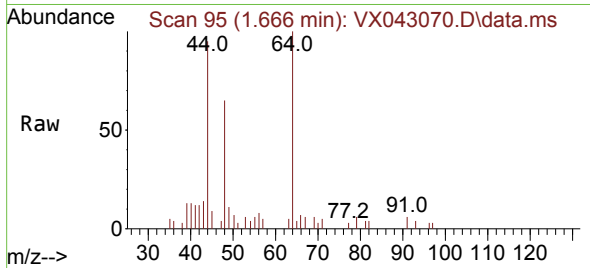




#6
Chloroethane
Concen: 1.287 ug/l
RT: 1.666 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

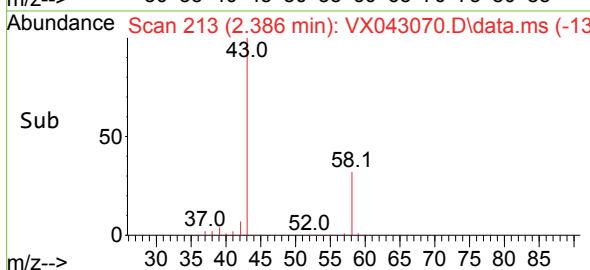
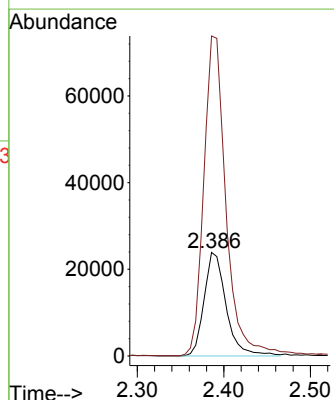
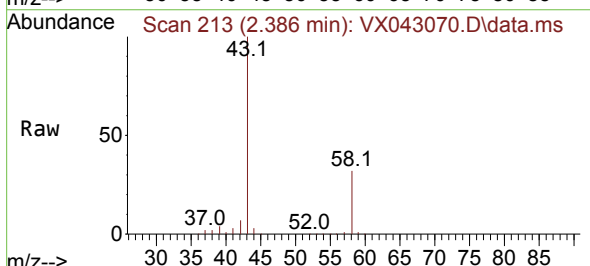
Instrument :
MSVOA_X
ClientSampleId :

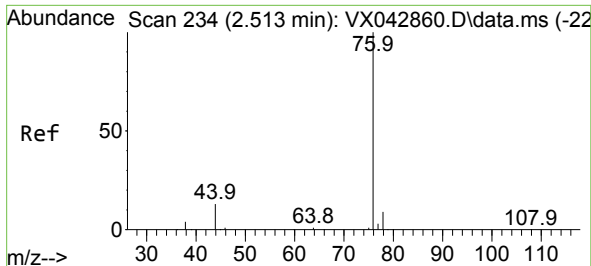
Tgt Ion: 64 Resp: 546
Ion Ratio Lower Upper
64 100
66 12.7 25.9 38.9#



#15
Acetone
Concen: 160.579 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

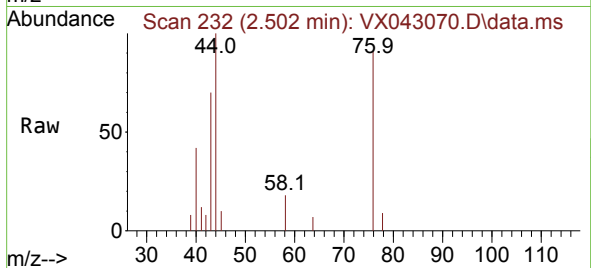
Tgt Ion: 58 Resp: 42282
Ion Ratio Lower Upper
58 100
43 309.0 269.9 404.9



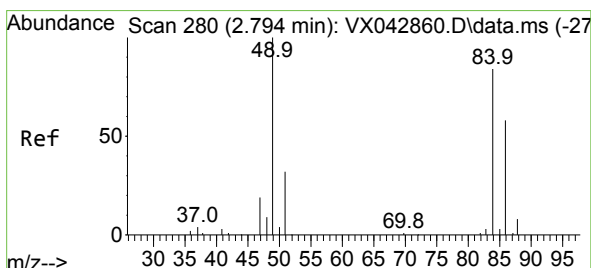
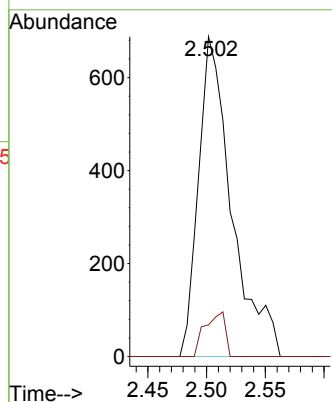
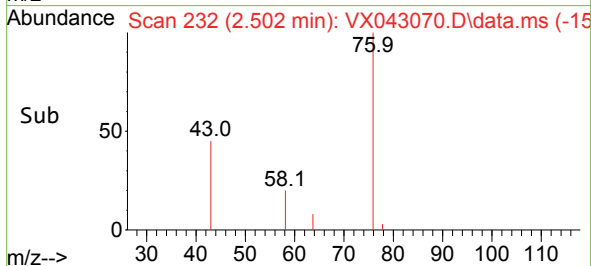


#16
Carbon Disulfide
Concen: 0.333 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

Instrument :
MSVOA_X
ClientSampleId :

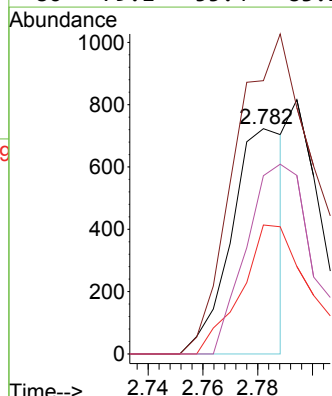
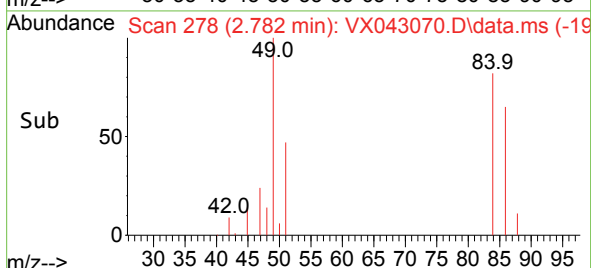
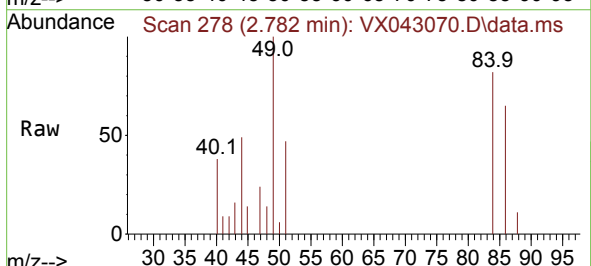


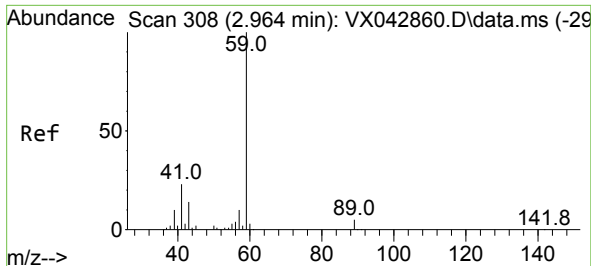
Tgt Ion: 76 Resp: 1353
Ion Ratio Lower Upper
76 100
78 9.9 7.1 10.7



#18
Methylene Chloride
Concen: 0.611 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

Tgt Ion: 84 Resp: 974
Ion Ratio Lower Upper
84 100
49 121.3 95.0 142.6
51 57.3 30.1 45.1#
86 79.1 55.4 83.2

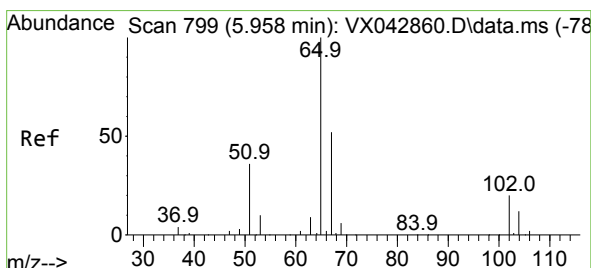
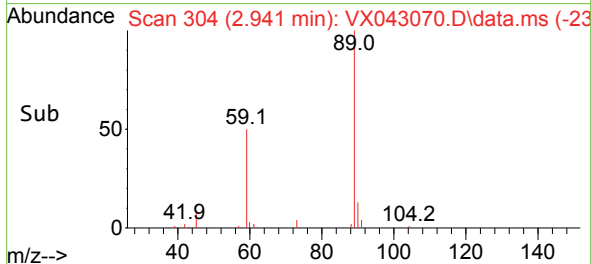
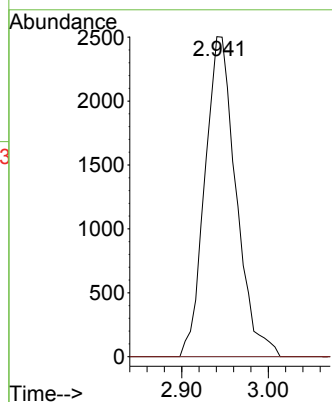
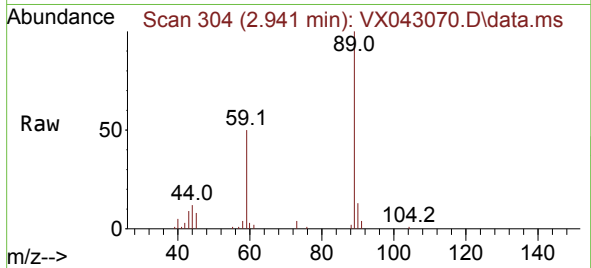




#23
tert-Butyl Alcohol
Concen: 15.245 ug/l
RT: 2.941 min Scan# 308
Delta R.T. -0.055 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

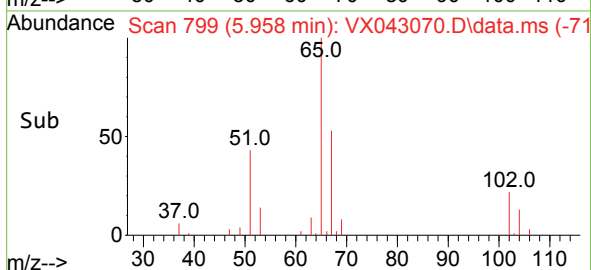
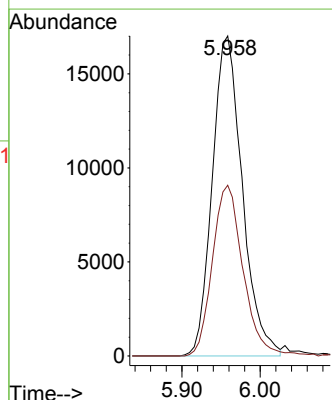
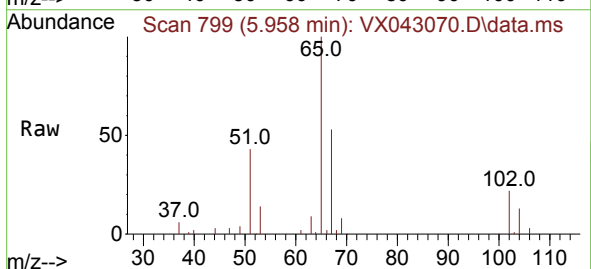
Instrument :
MSVOA_X
ClientSampleId :

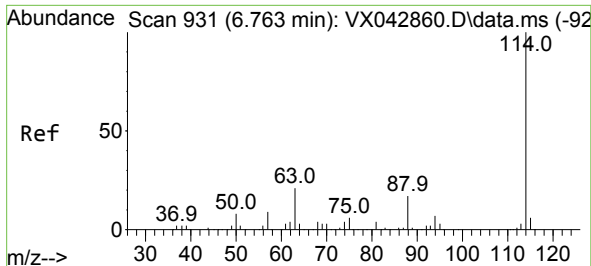
Tgt Ion: 59 Resp: 6265
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 28.056 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

Tgt Ion: 65 Resp: 45346
Ion Ratio Lower Upper
65 100
67 54.4 40.6 60.8

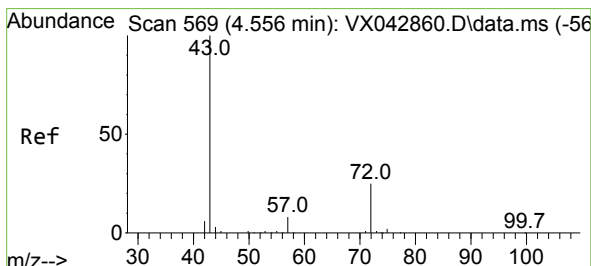
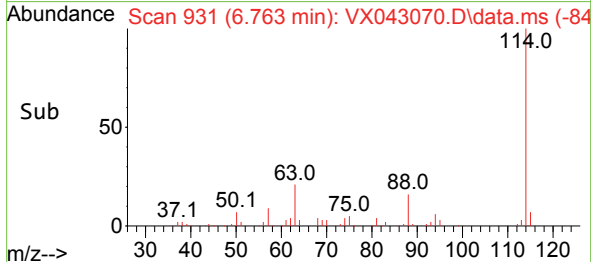
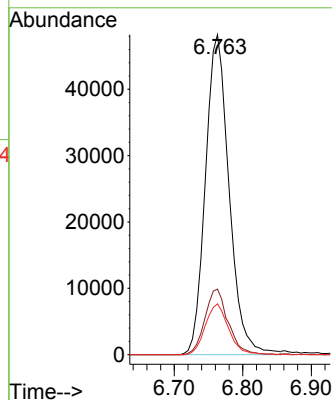
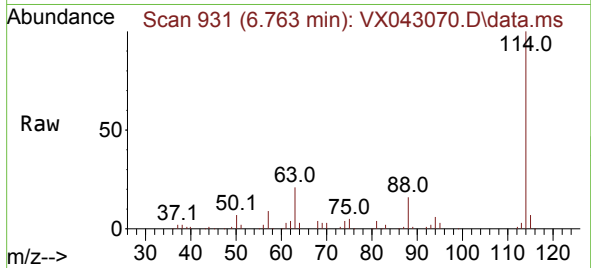




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VX043070.D
 Acq: 16 Aug 2024 12:52

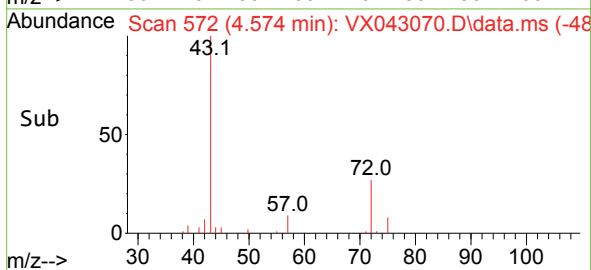
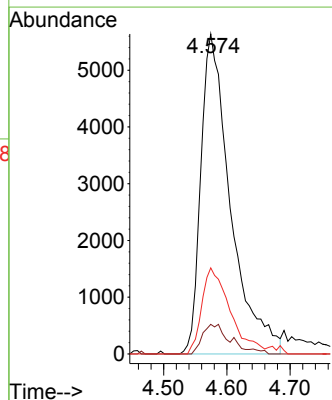
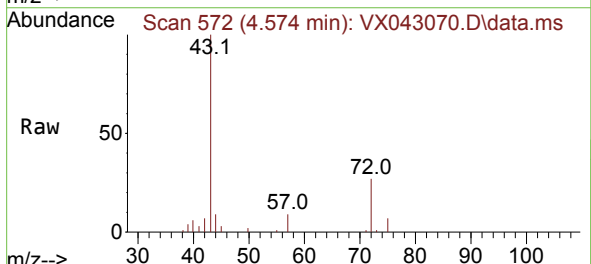
Instrument :
 MSVOA_X
 ClientSampleId :

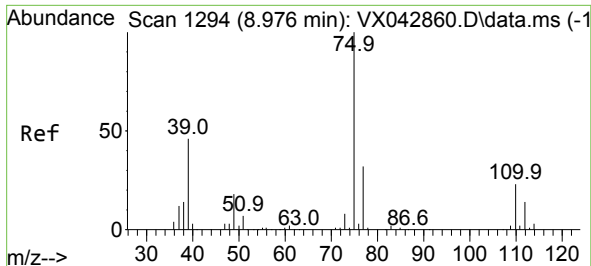
Tgt Ion:114 Resp: 115974
 Ion Ratio Lower Upper
 114 100
 63 20.1 16.0 24.0
 88 15.6 12.5 18.7



#30
 2-Butanone
 Concen: 14.414 ug/l
 RT: 4.574 min Scan# 572
 Delta R.T. 0.006 min
 Lab File: VX043070.D
 Acq: 16 Aug 2024 12:52

Tgt Ion: 43 Resp: 18383
 Ion Ratio Lower Upper
 43 100
 57 6.8 6.6 10.0
 72 25.7 21.0 31.4

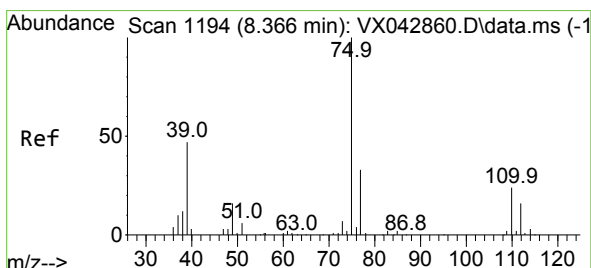
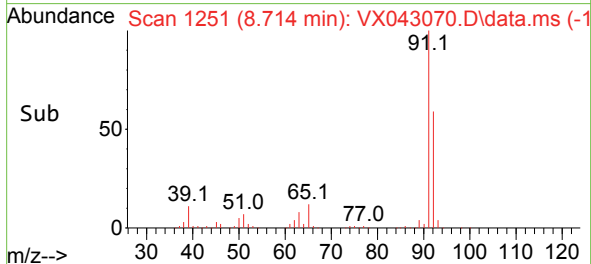
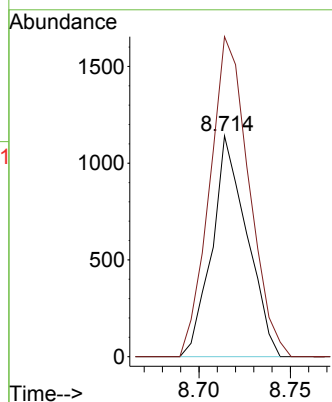
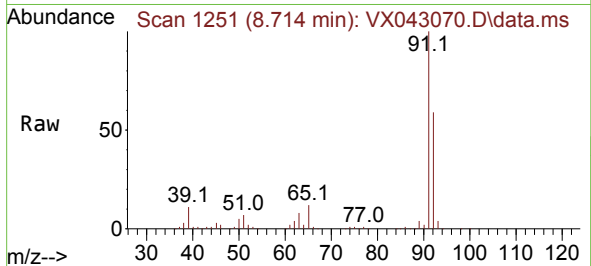




#48
 t-1,3-Dichloropropene
 Concen: 0.698 ug/l
 RT: 8.714 min Scan# 1251
 Delta R.T. -0.268 min
 Lab File: VX043070.D
 Acq: 16 Aug 2024 12:52

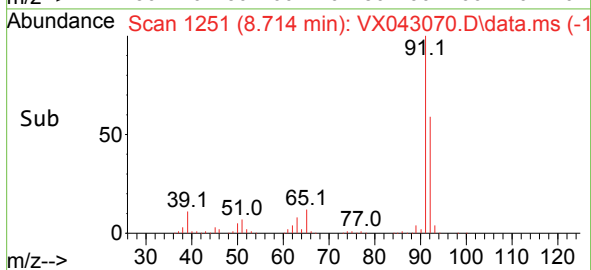
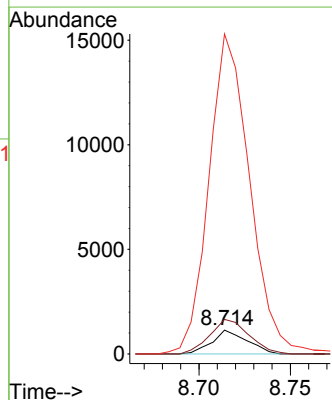
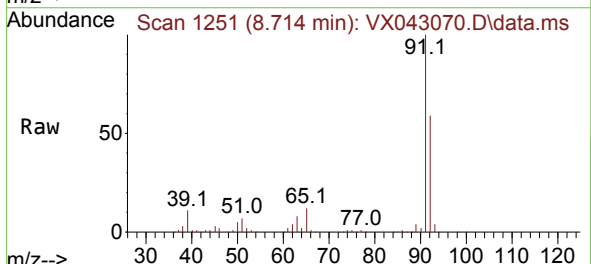
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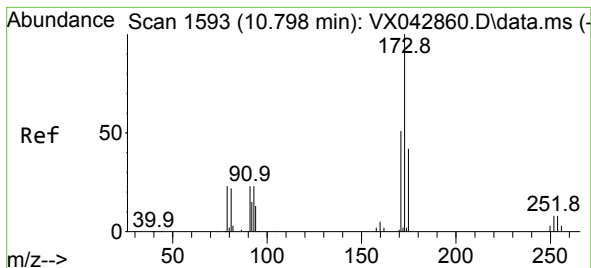
Tgt Ion: 75 Resp: 1522
 Ion Ratio Lower Upper
 75 100
 77 145.0 25.6 38.4#



#49
 cis-1,3-Dichloropropene
 Concen: 0.640 ug/l
 RT: 8.714 min Scan# 1251
 Delta R.T. 0.348 min
 Lab File: VX043070.D
 Acq: 16 Aug 2024 12:52

Tgt Ion: 75 Resp: 1522
 Ion Ratio Lower Upper
 75 100
 77 145.0 26.8 40.2#
 39 1315.6 37.5 56.3#





#56

Bromoform

Concen: 0.384 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

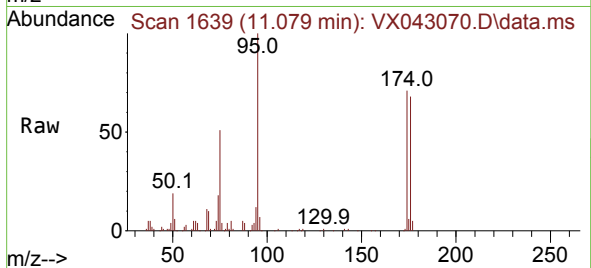
Lab File: VX043070.D

Acq: 16 Aug 2024 12:52

Instrument :

MSVOA_X

ClientSampleId :



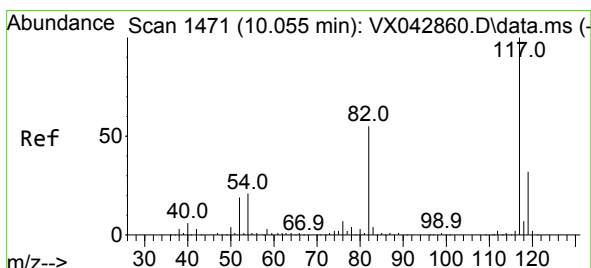
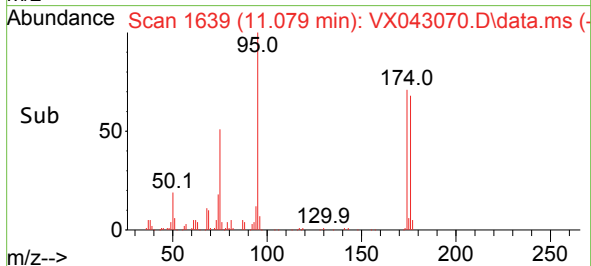
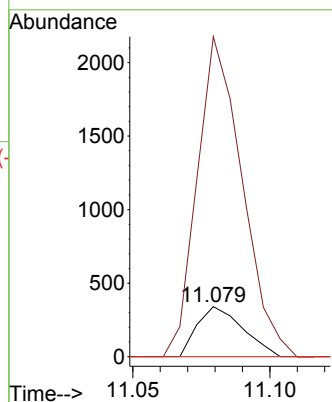
Tgt Ion:173 Resp: 395

Ion Ratio Lower Upper

173 100

175 628.9 37.1 55.7#

254 0.0 6.6 10.0#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX043070.D

Acq: 16 Aug 2024 12:52

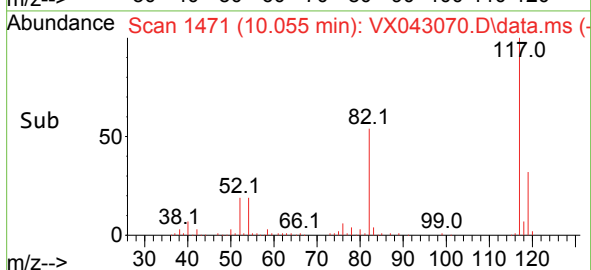
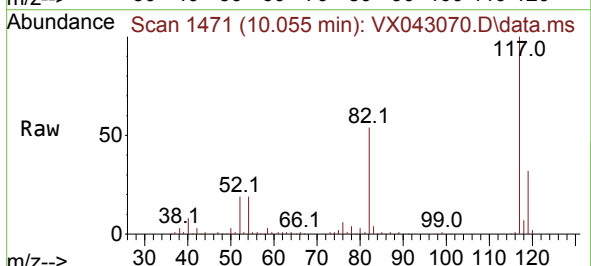
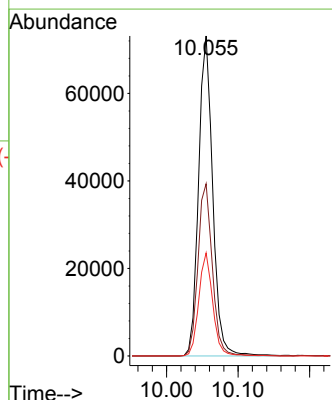
Tgt Ion:117 Resp: 100284

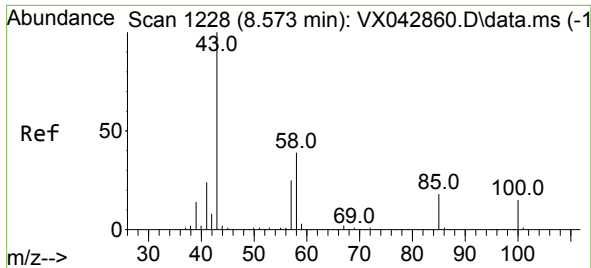
Ion Ratio Lower Upper

117 100

82 54.6 44.9 67.3

119 31.8 25.4 38.2

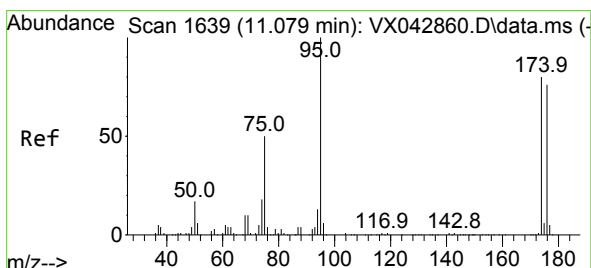
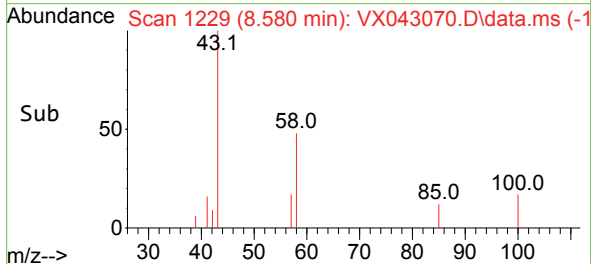
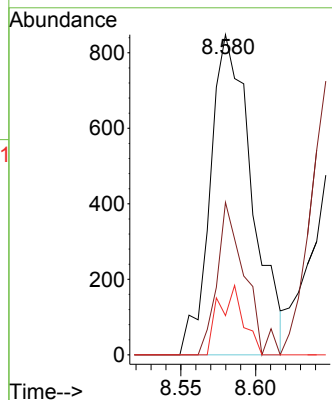
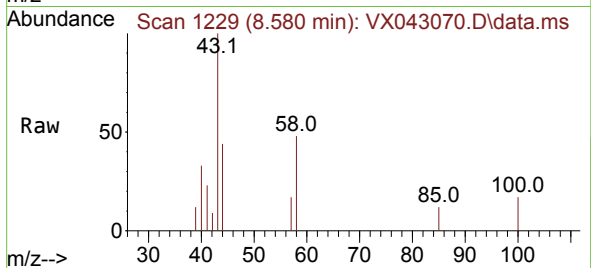




#58
4-Methyl-2-Pentanone
Concen: 0.709 ug/l
RT: 8.580 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

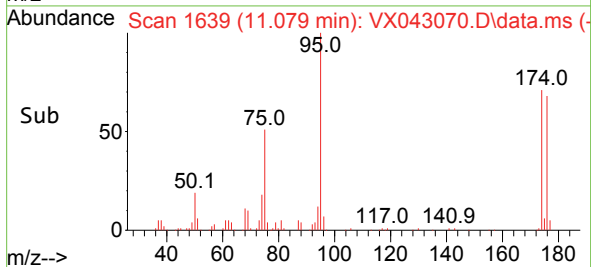
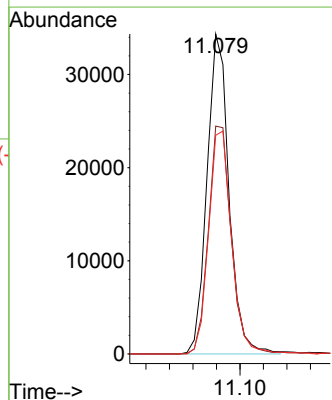
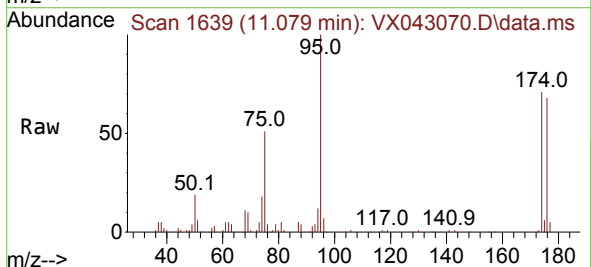
Instrument :
MSVOA_X
ClientSampleId :

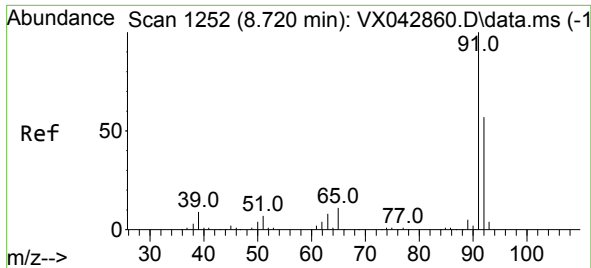
Tgt Ion: 43 Resp: 1644
Ion Ratio Lower Upper
43 100
58 30.0 31.4 47.0#
85 12.8 14.6 21.8#



#60
4-Bromofluorobenzene
Concen: 26.305 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

Tgt Ion: 95 Resp: 44783
Ion Ratio Lower Upper
95 100
174 74.2 65.0 97.6
176 72.0 63.4 95.0

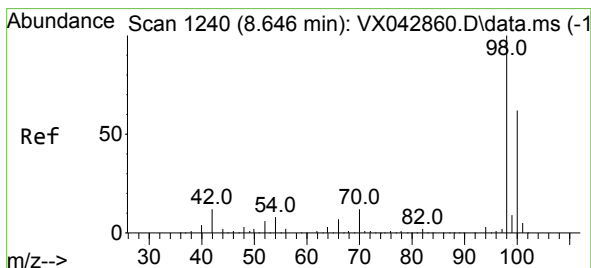
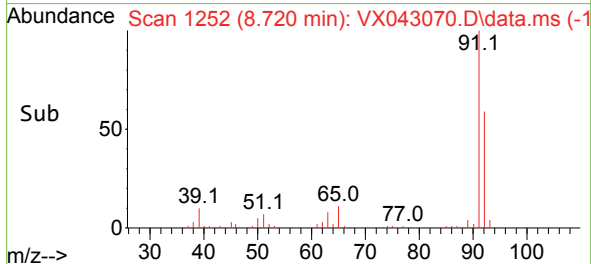
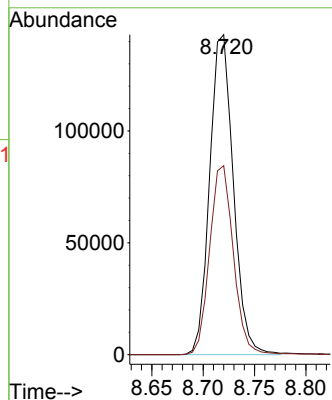
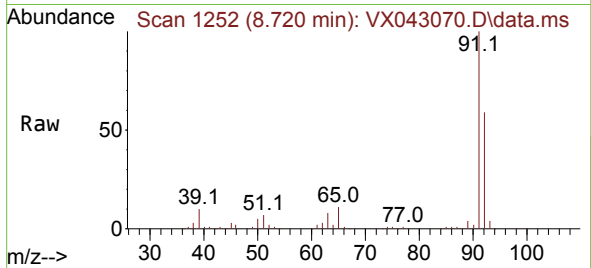




#62
Toluene
Concen: 40.048 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

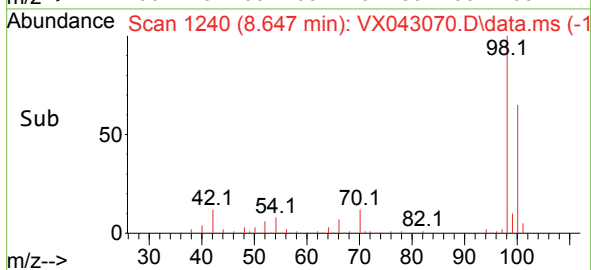
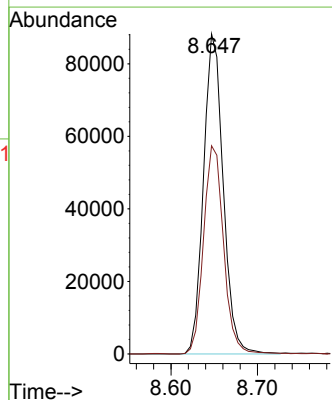
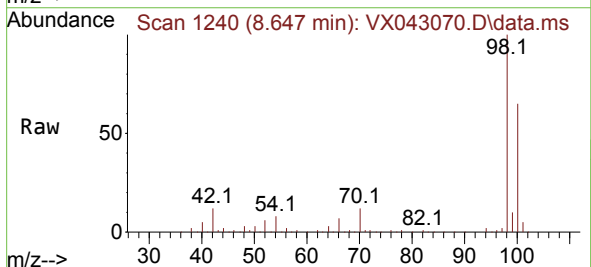
Instrument :
MSVOA_X
ClientSampleId :

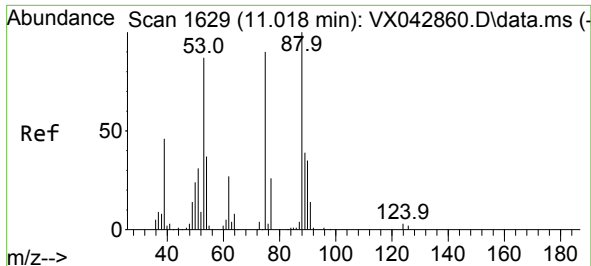
Tgt Ion: 91 Resp: 229415
Ion Ratio Lower Upper
91 100
92 59.1 45.7 68.5



#63
Toluene-d8
Concen: 30.284 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

Tgt Ion: 98 Resp: 139512
Ion Ratio Lower Upper
98 100
100 66.2 50.9 76.3

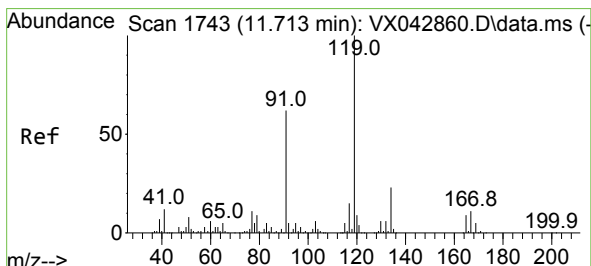
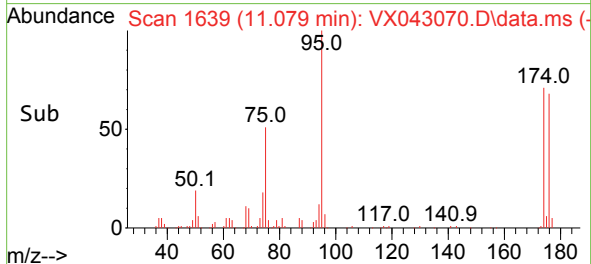
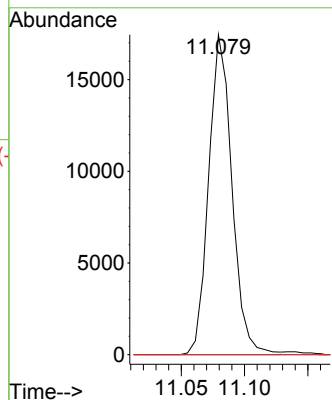
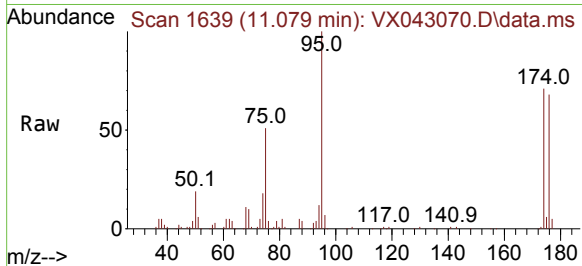




#77
t-1,4-Dichloro-2-butene
Concen: 25.846 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

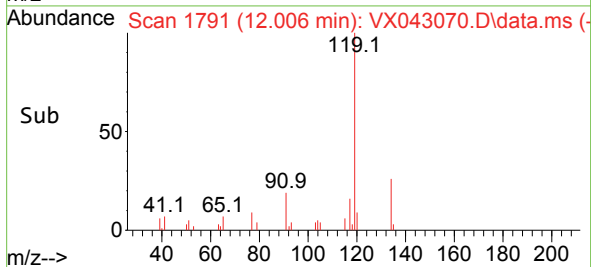
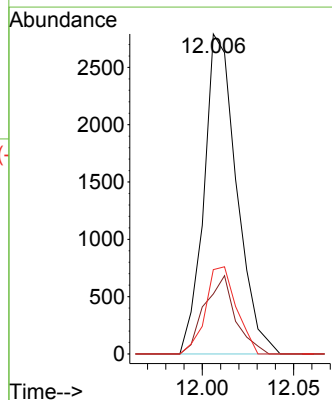
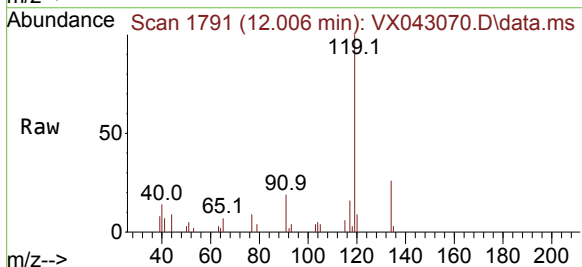
Instrument :
MSVOA_X
ClientSampleId :

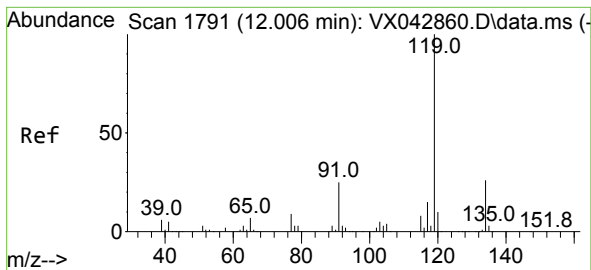
Tgt Ion: 75 Resp: 22351
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.5#
89 0.0 21.9 65.5#



#79
tert-butylbenzene
Concen: 0.715 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX043070.D
Acq: 16 Aug 2024 12:52

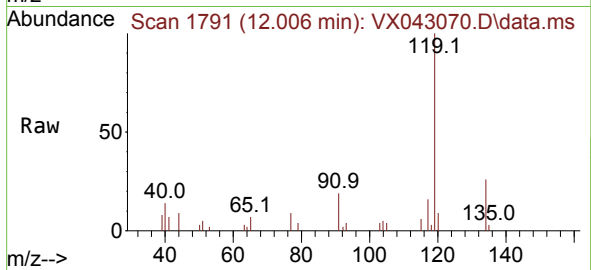
Tgt Ion: 119 Resp: 3472
Ion Ratio Lower Upper
119 100
91 23.1 0.0 118.6
134 25.7 0.0 44.4





#82
 p-Isopropyltoluene
 Concen: 0.700 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX043070.D
 Acq: 16 Aug 2024 12:52

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	0.0	51.8
91	23.1	0.0	48.4

