

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031921\
 Data File : VX021290.D
 Acq On : 18 Mar 2021 20:27
 Operator : JC/MD
 Sample : L1710-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 19 02:54:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X031221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 12 12:55:27 2021
 Response via : Initial Calibration

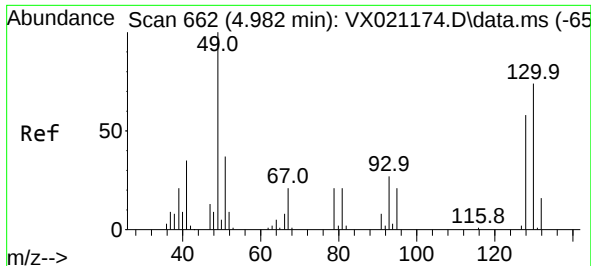
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.982	128	15174	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	86258	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	78424	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	43067	30.84	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.80%
60) 4-Bromofluorobenzene	11.118	95	40964	28.57	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.23%
63) Toluene-d8	8.694	98	106012	29.80	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.33%
Target Compounds						
					Qvalue	
5) Bromomethane	1.634	94	132	0.21	ug/l #	45
12) Methyl Acetate	2.617	43	2336636	1646.02	ug/l #	46
13) Acrolein	2.240	56	40	0.22	ug/l #	1
15) Acetone	2.422	58	176161	1232.61	ug/l #	68
16) Carbon Disulfide	2.552	76	590	0.24	ug/l #	75
17) Allyl chloride	2.617	41	945667	529.28	ug/l #	59
18) Methylene Chloride	2.840	84	526	0.52	ug/l #	90
20) Diisopropyl ether	3.823	45	950	0.27	ug/l #	58
23) tert-Butyl Alcohol	3.023	59	1221	5.15	ug/l #	100
25) Chloroform	5.176	83	2539	1.31	ug/l #	79
30) 2-Butanone	4.640	43	2242	2.79	ug/l #	71
47) n-amyl Acetate	10.894	43	955	0.41	ug/l #	4
51) Ethyl methacrylate	9.070	69	438	0.26	ug/l	72
56) Bromoform	11.124	173	347	0.40	ug/l #	1
58) 4-Methyl-2-Pentanone	8.617	43	6538	4.12	ug/l #	88
59) 2-Hexanone	9.470	43	6172	5.16	ug/l	86
71) 1,1,2,2-Tetrachloroethane	11.312	83	1412	0.93	ug/l #	31
72) 1,2,3-Trichloropropane	11.118	75	23778	15.46	ug/l	39
88) 1,2-Dibromo-3-Chloropr...	12.906	75	151	0.40	ug/l #	1

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

Quant Time: Mar 19 02:54:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X031221W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Mar 12 12:55:27 2021
Response via : Initial Calibration

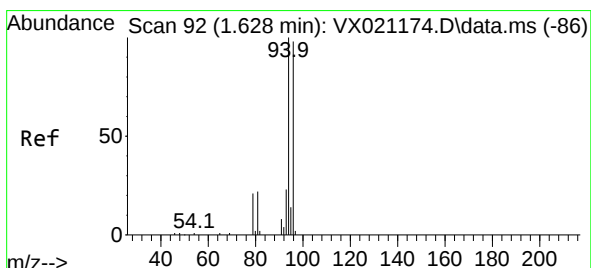
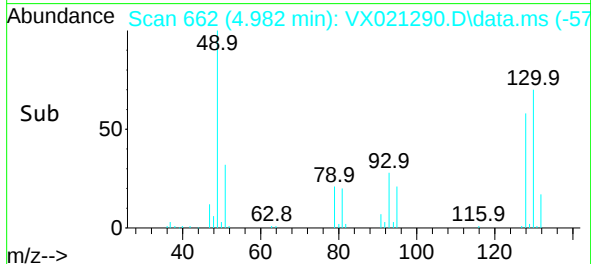
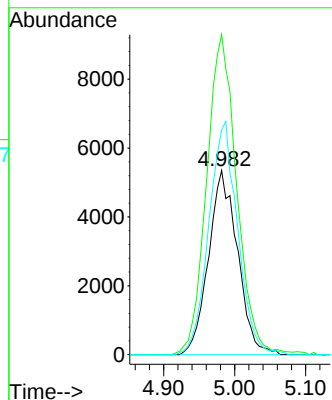
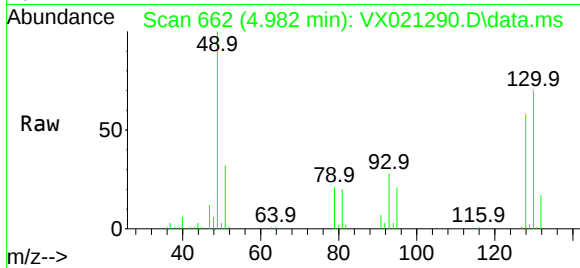




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 4.982 min Scan# 662
Delta R.T. -0.000 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

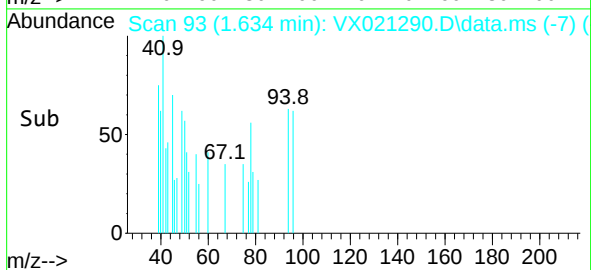
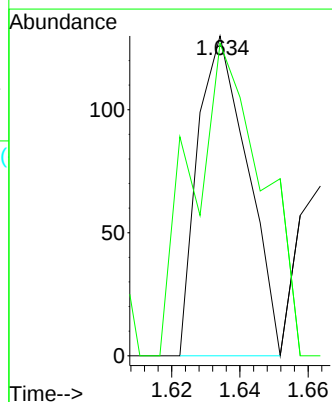
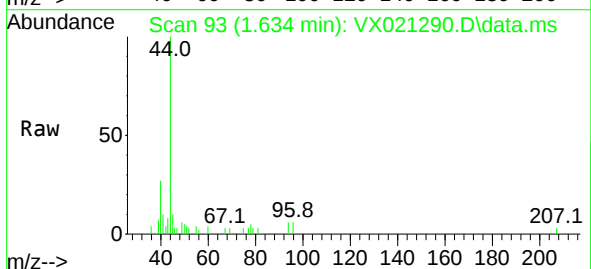
Instrument :
MSVOA_X
ClientSampleId :

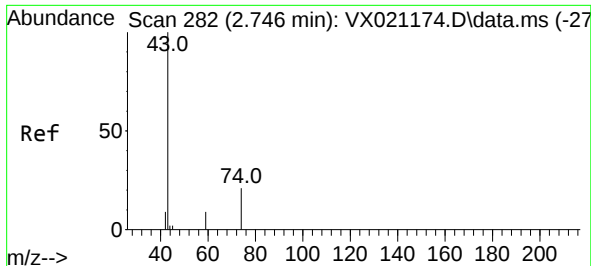
Tgt Ion:128 Resp: 15174
Ion Ratio Lower Upper
128 100
49 178.8 0.0 367.5
130 125.8 0.0 318.8



#5
Bromomethane
Concen: 0.21 ug/l
RT: 1.634 min Scan# 93
Delta R.T. 0.006 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

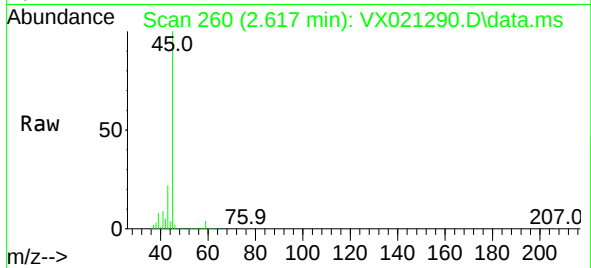
Tgt Ion: 94 Resp: 132
Ion Ratio Lower Upper
94 100
96 42.3 76.6 114.8#



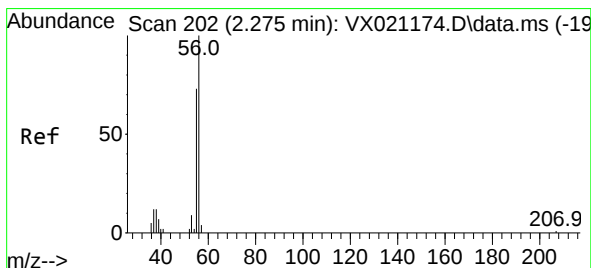
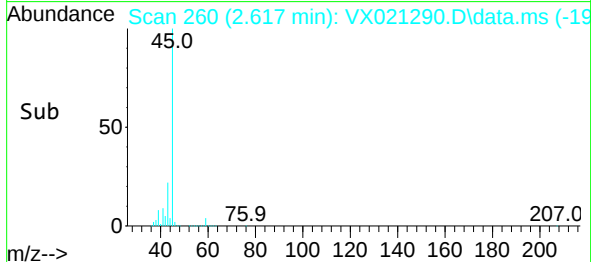
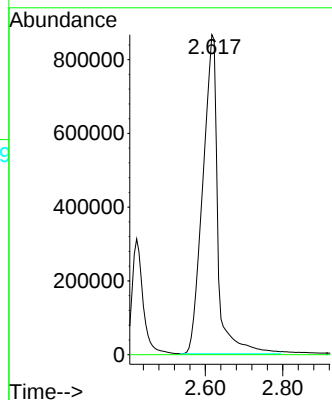


#12
Methyl Acetate
Concen: 1646.02 ug/l
RT: 2.617 min Scan# 260
Delta R.T. -0.129 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Instrument :
MSVOA_X
ClientSampled :

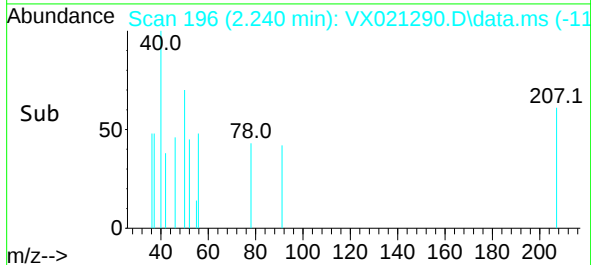
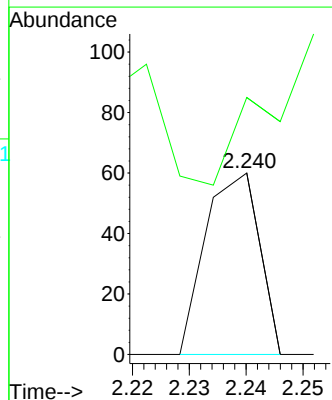
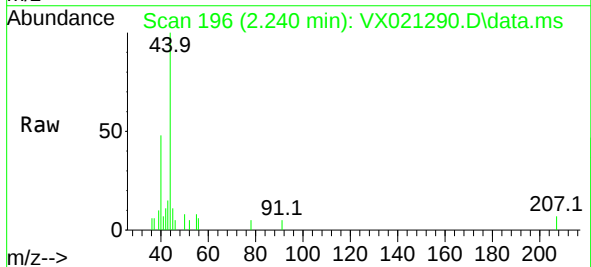


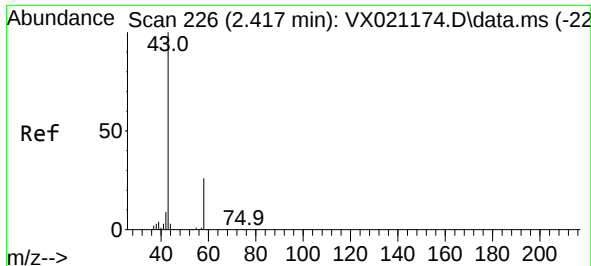
Tgt Ion: 43 Resp: 2336636
Ion Ratio Lower Upper
43 100
74 0.0 22.8 34.2#



#13
Acrolein
Concen: 0.22 ug/l
RT: 2.240 min Scan# 196
Delta R.T. -0.035 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Tgt Ion: 56 Resp: 40
Ion Ratio Lower Upper
56 100
55 290.0 56.3 84.5#

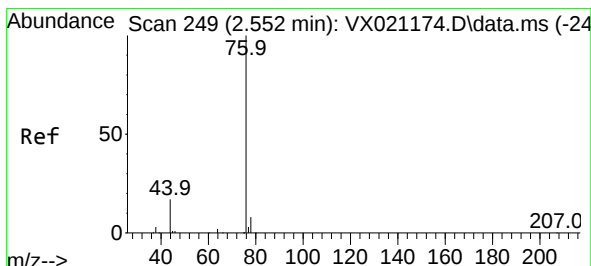
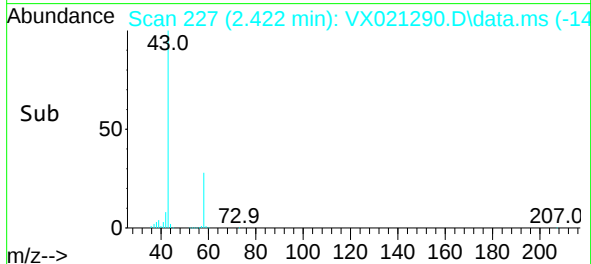
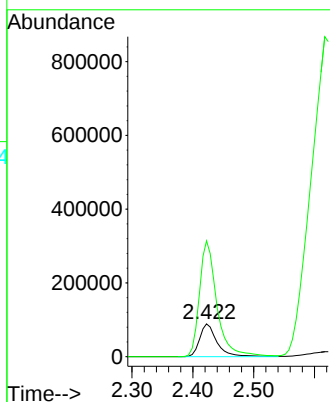
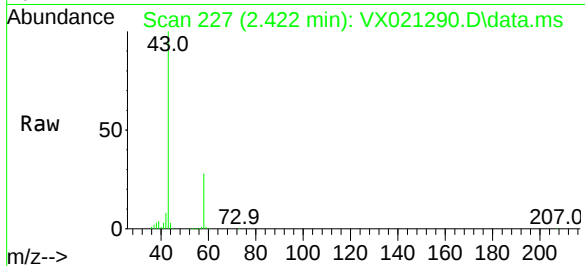




#15
Acetone
Concen: 1232.61 ug/l
RT: 2.422 min Scan# 227
Delta R.T. 0.005 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

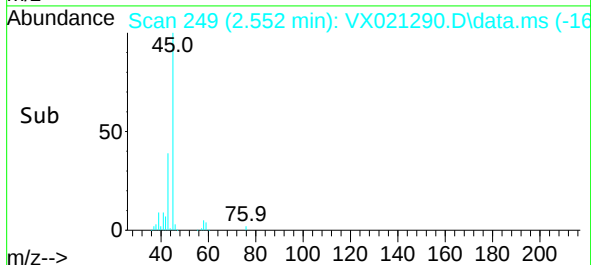
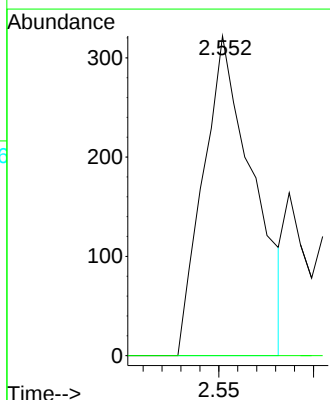
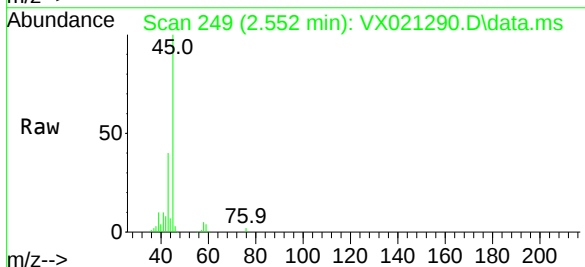
Instrument :
MSVOA_X
ClientSampled :

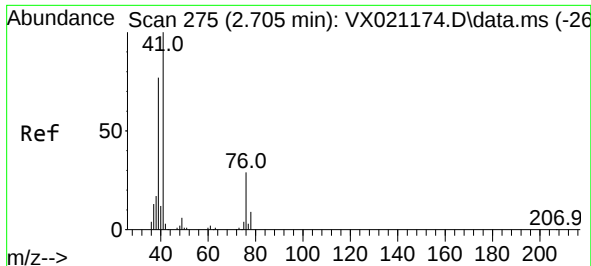
Tgt Ion: 58 Resp: 176161
Ion Ratio Lower Upper
58 100
43 352.2 232.6 348.8#



#16
Carbon Disulfide
Concen: 0.24 ug/l
RT: 2.552 min Scan# 249
Delta R.T. -0.000 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Tgt Ion: 76 Resp: 590
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#





#17

Allyl chloride

Concen: 529.28 ug/l

RT: 2.617 min Scan# 260

Delta R.T. -0.088 min

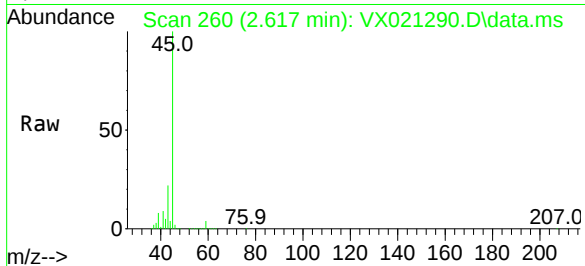
Lab File: VX021290.D

Acq: 18 Mar 2021 20:27

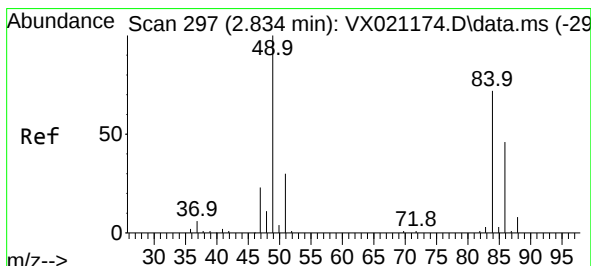
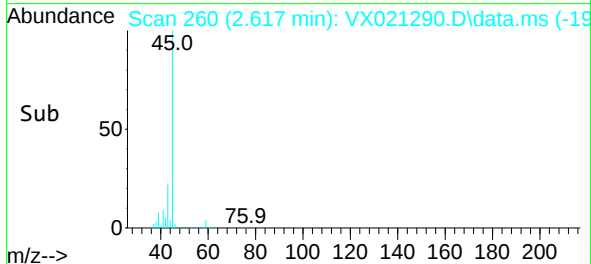
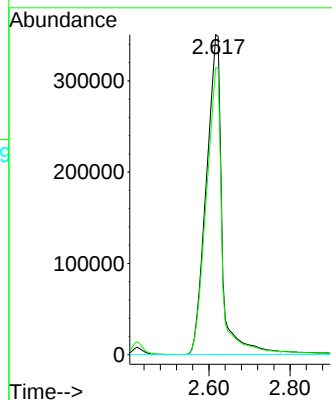
Instrument :

MSVOA_X

ClientSampled :



Tgt Ion:	41	Resp:	945667
Ion Ratio	Lower	Upper	
41	100		
39	89.7	34.8	104.4
76	0.0	21.3	63.9#



#18

Methylene Chloride

Concen: 0.52 ug/l

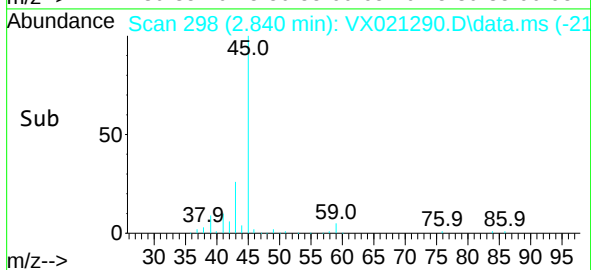
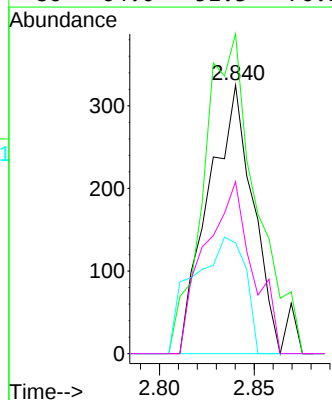
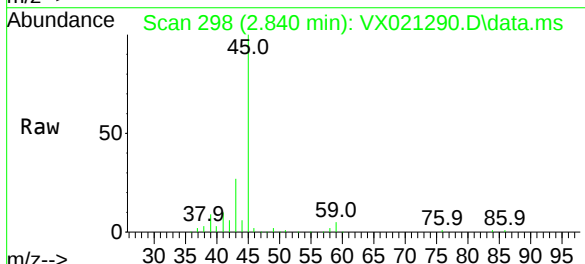
RT: 2.840 min Scan# 298

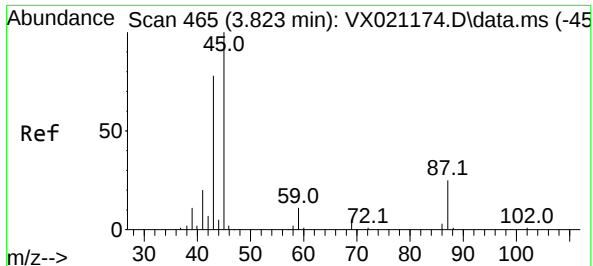
Delta R.T. 0.006 min

Lab File: VX021290.D

Acq: 18 Mar 2021 20:27

Tgt Ion:	84	Resp:	526
Ion Ratio	Lower	Upper	
84	100		
49	98.5	90.6	136.0
51	41.2	26.3	39.5#
86	64.0	51.3	76.9

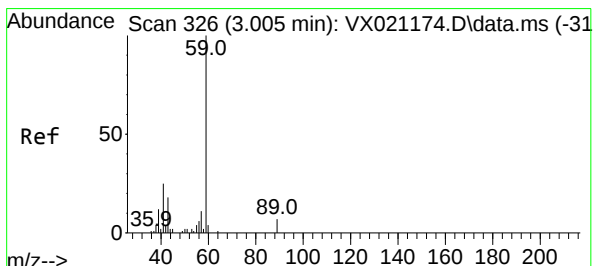
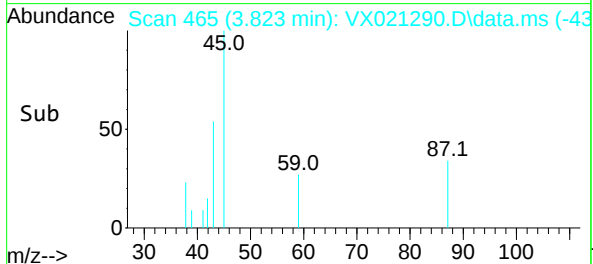
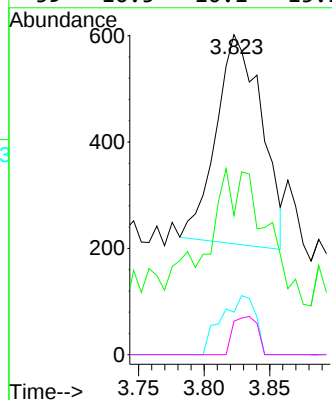
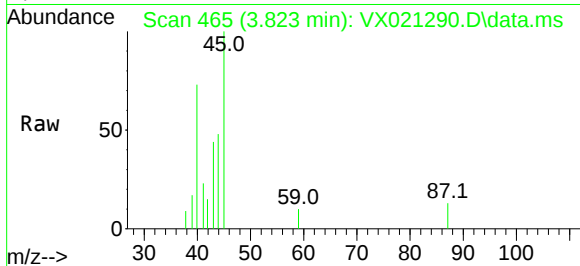




#20
Diisopropyl ether
Concen: 0.27 ug/l
RT: 3.823 min Scan# 465
Delta R.T. -0.000 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

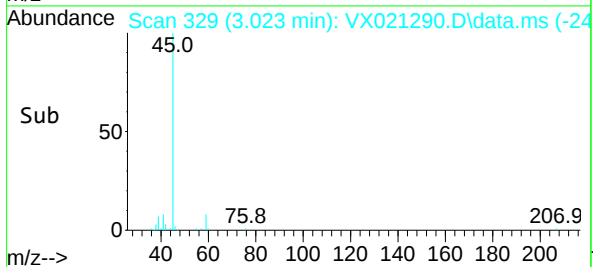
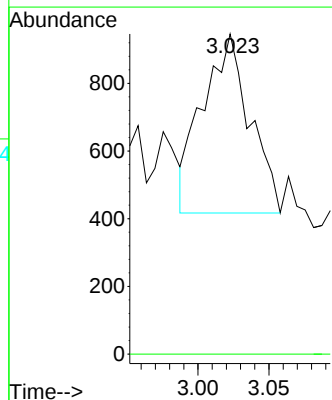
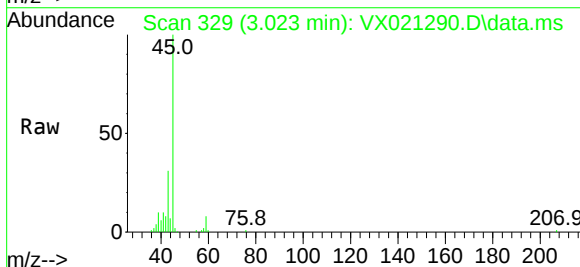
Instrument :
MSVOA_X
ClientSampleId :

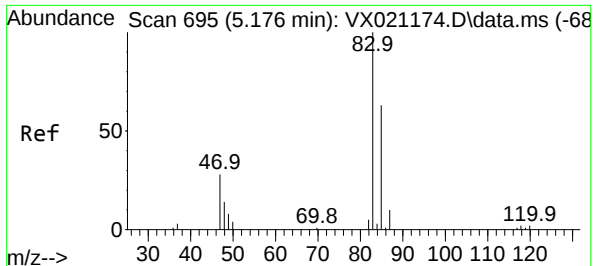
Tgt Ion:	45	Resp:	950
Ion	Ratio	Lower	Upper
45	100		
43	22.3	56.0	84.0#
87	21.0	25.4	38.0#
59	16.5	10.1	15.1#



#23
tert-Butyl Alcohol
Concen: 5.15 ug/l
RT: 3.023 min Scan# 329
Delta R.T. 0.018 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Tgt Ion:	59	Resp:	1221
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#





#25

Chloroform

Concen: 1.31 ug/l

RT: 5.176 min Scan# 695

Delta R.T. -0.000 min

Lab File: VX021290.D

Acq: 18 Mar 2021 20:27

Instrument :

MSVOA_X

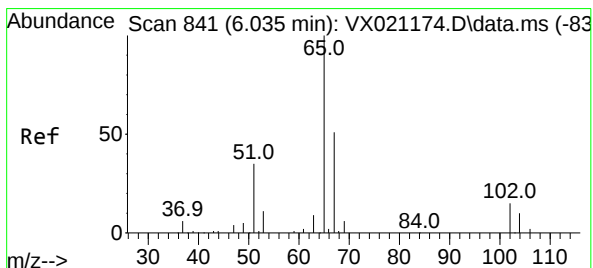
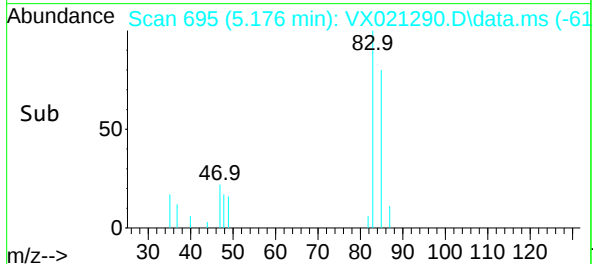
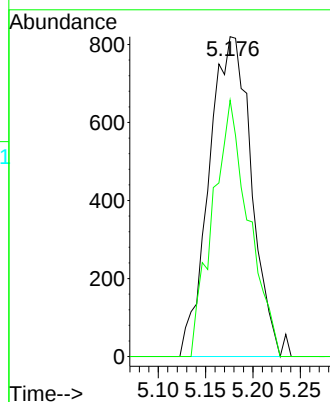
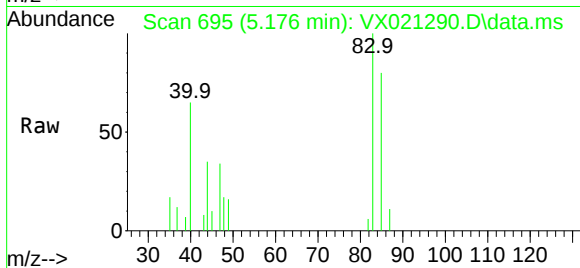
ClientSampled :

Tgt Ion: 83 Resp: 2539

Ion Ratio Lower Upper

83 100

85 80.1 51.2 76.8#



#27

1,2-Dichloroethane-d4

Concen: 30.84 ug/l

RT: 6.029 min Scan# 840

Delta R.T. -0.006 min

Lab File: VX021290.D

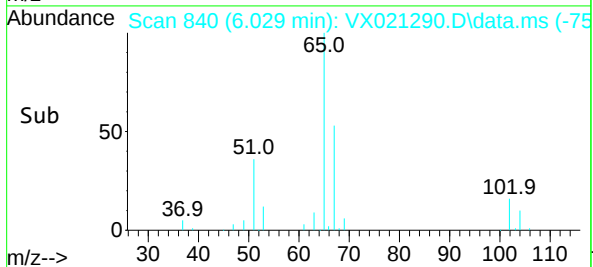
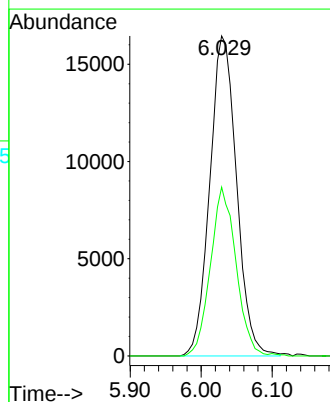
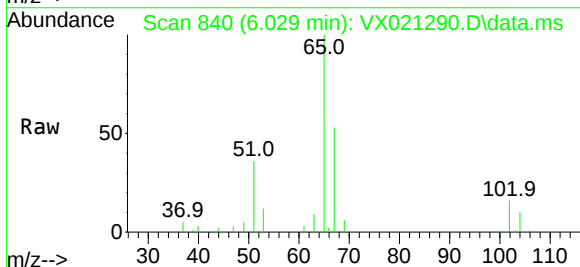
Acq: 18 Mar 2021 20:27

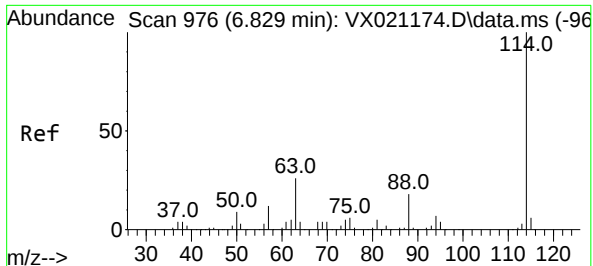
Tgt Ion: 65 Resp: 43067

Ion Ratio Lower Upper

65 100

67 50.3 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.829 min Scan# 976

Delta R.T. 0.000 min

Lab File: VX021290.D

Acq: 18 Mar 2021 20:27

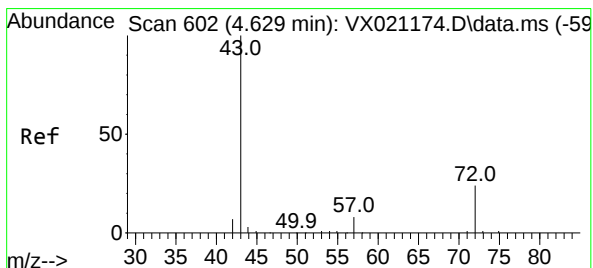
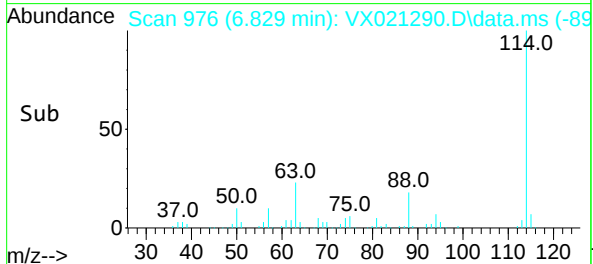
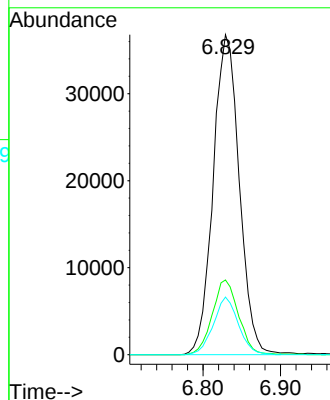
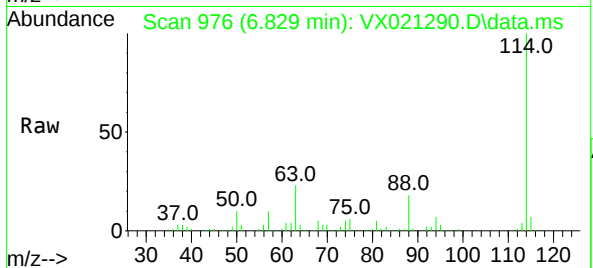
Tgt Ion:114 Resp: 86258

Ion Ratio Lower Upper

114 100

63 23.4 16.2 24.2

88 17.2 13.0 19.6



#30

2-Butanone

Concen: 2.79 ug/l

RT: 4.640 min Scan# 604

Delta R.T. 0.011 min

Lab File: VX021290.D

Acq: 18 Mar 2021 20:27

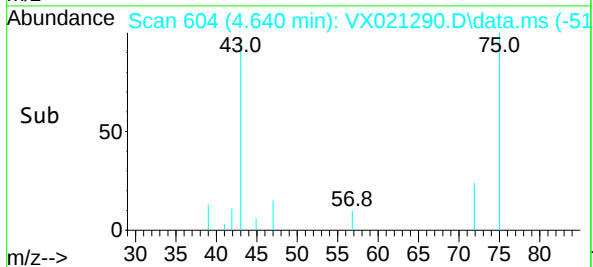
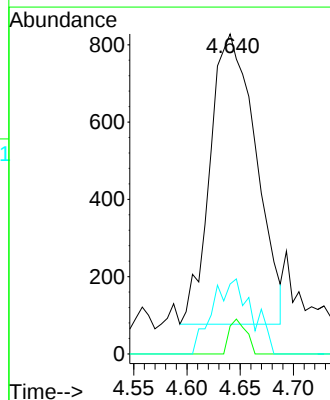
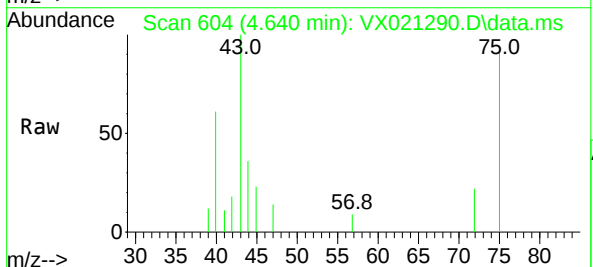
Tgt Ion: 43 Resp: 2242

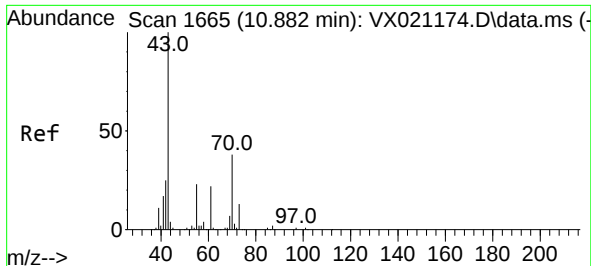
Ion Ratio Lower Upper

43 100

57 4.5 7.2 10.8#

72 11.1 23.7 35.5#

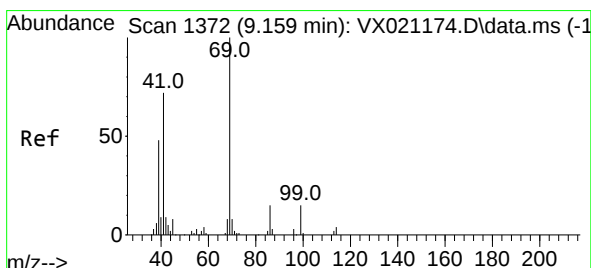
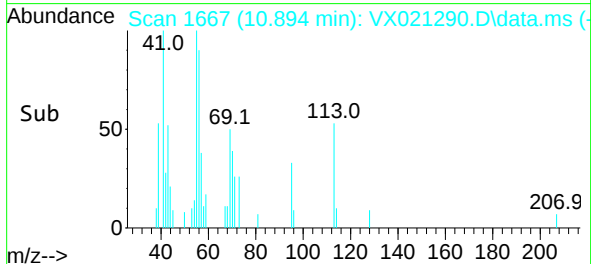
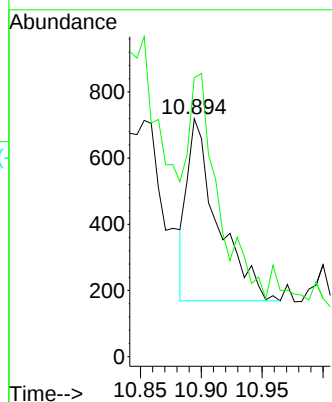
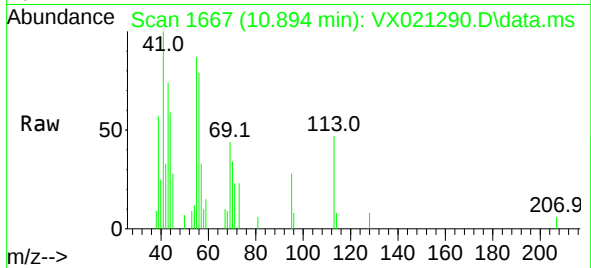




#47
n-amy1 Acetate
Concen: 0.41 ug/l
RT: 10.894 min Scan# 1667
Delta R.T. 0.012 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

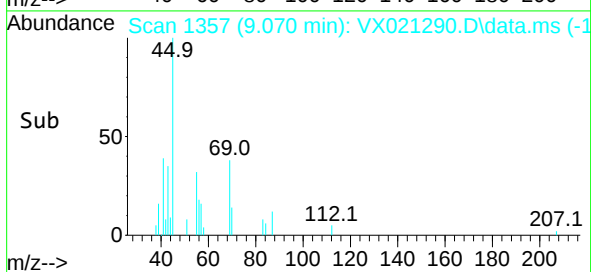
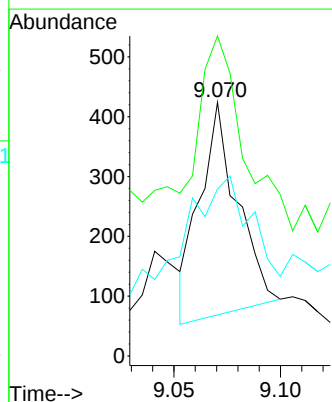
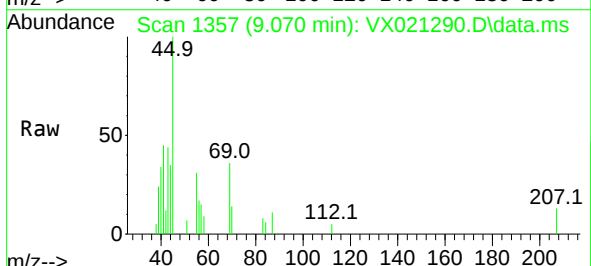
Instrument :
MSVOA_X
ClientSampled :

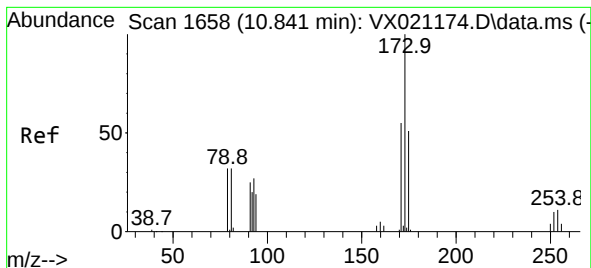
Tgt Ion: 43 Resp: 955
Ion Ratio Lower Upper
43 100
55 77.1 21.8 32.6#



#51
Ethyl methacrylate
Concen: 0.26 ug/l
RT: 9.070 min Scan# 1357
Delta R.T. -0.088 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Tgt Ion: 69 Resp: 438
Ion Ratio Lower Upper
69 100
41 80.5 29.1 87.4
39 44.4 15.4 46.1

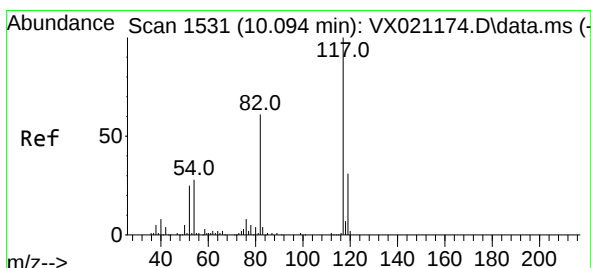
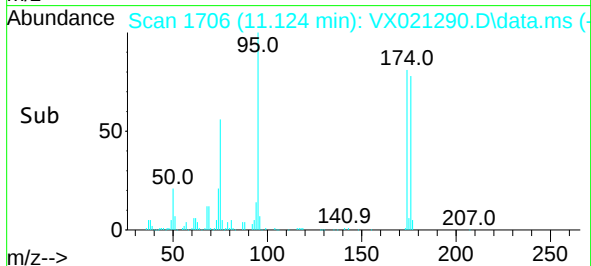
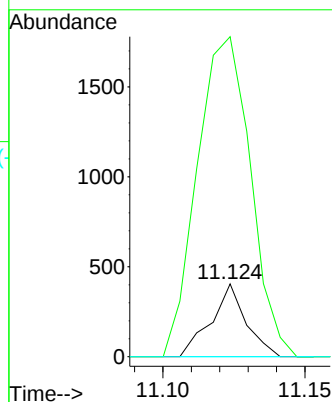
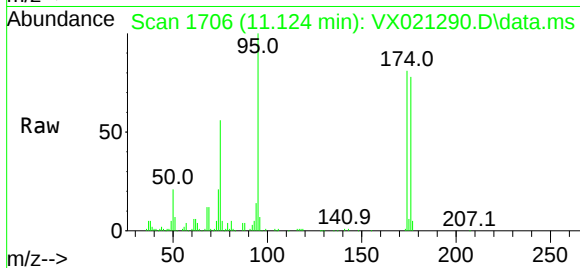




#56
Bromoform
Concen: 0.40 ug/l
RT: 11.124 min Scan# 1706
Delta R.T. 0.282 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

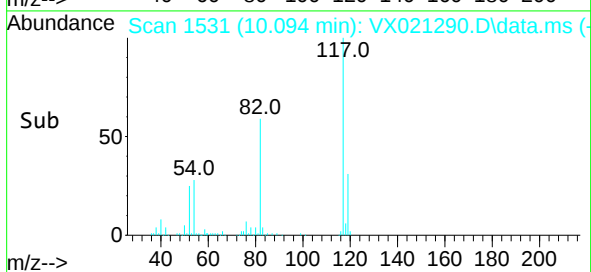
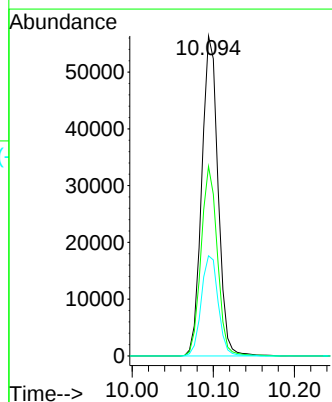
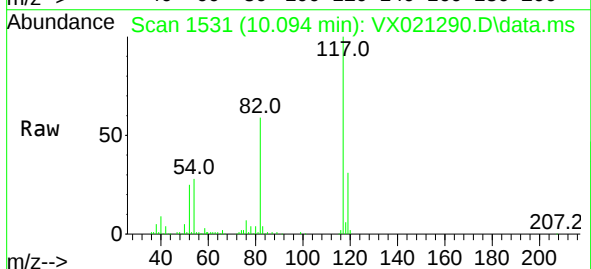
Instrument :
MSVOA_X
ClientSampleId :

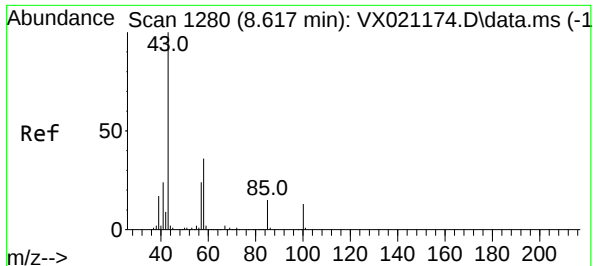
Tgt Ion:173 Resp: 347
Ion Ratio Lower Upper
173 100
175 669.2 38.1 57.1#
254 0.0 8.2 12.4#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.094 min Scan# 1531
Delta R.T. 0.000 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Tgt Ion:117 Resp: 78424
Ion Ratio Lower Upper
117 100
82 59.3 45.0 67.6
119 32.6 25.6 38.4

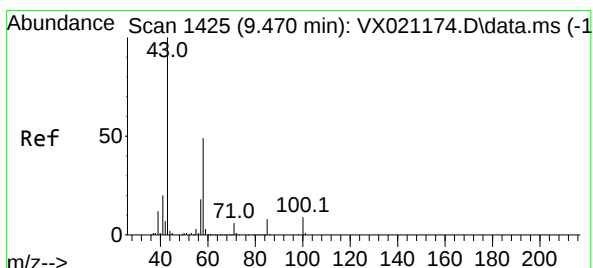
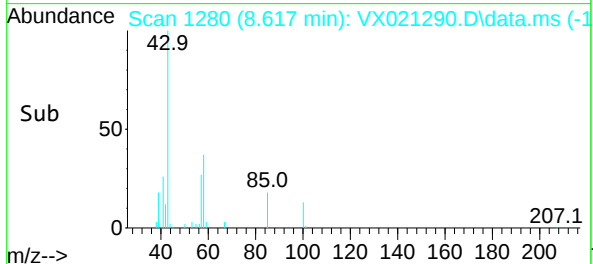
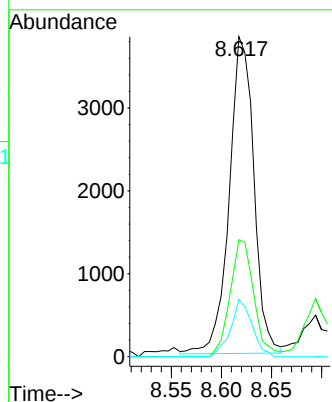
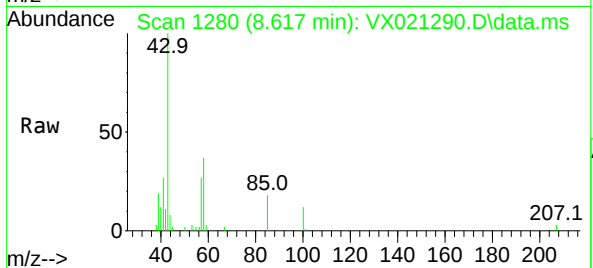




#58
4-Methyl-2-Pentanone
Concen: 4.12 ug/l
RT: 8.617 min Scan# 1280
Delta R.T. 0.000 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

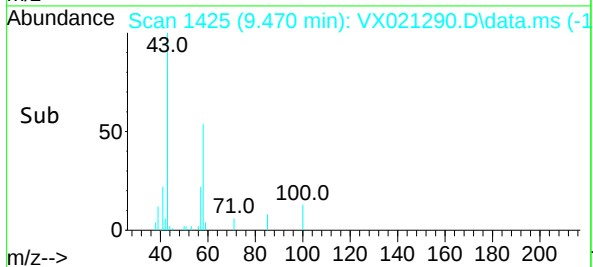
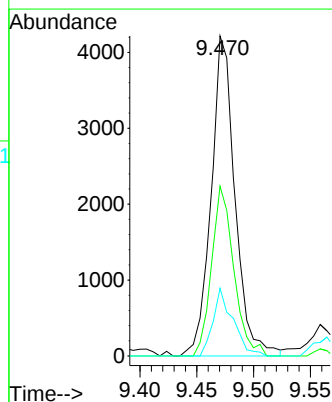
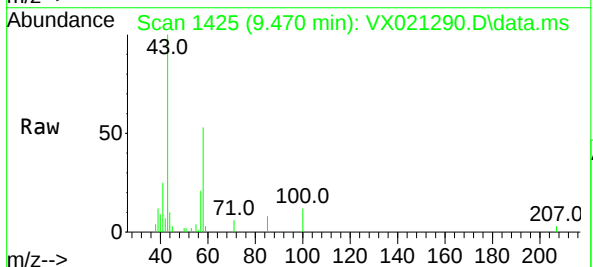
Instrument :
MSVOA_X
ClientSampleId :

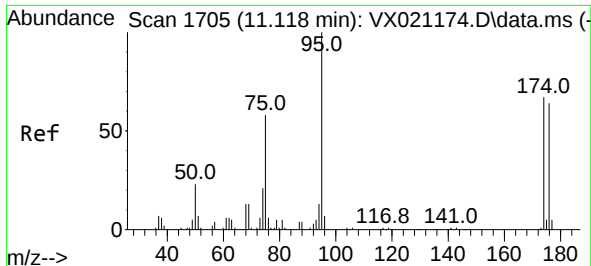
Tgt Ion: 43 Resp: 6538
Ion Ratio Lower Upper
43 100
58 35.6 35.2 52.8
85 15.8 16.8 25.2#



#59
2-Hexanone
Concen: 5.16 ug/l
RT: 9.470 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Tgt Ion: 43 Resp: 6172
Ion Ratio Lower Upper
43 100
58 49.4 49.0 73.6
57 17.4 17.1 25.7

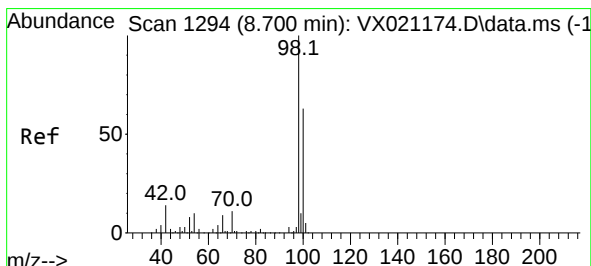
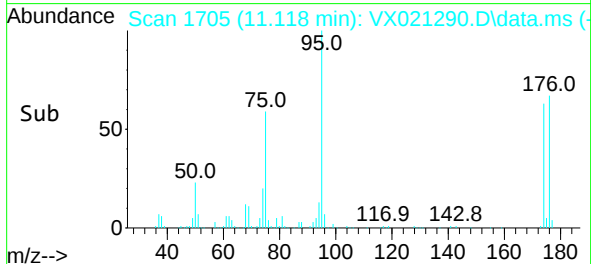
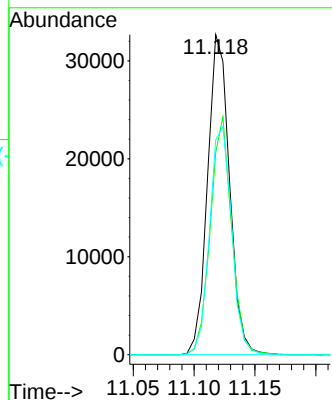
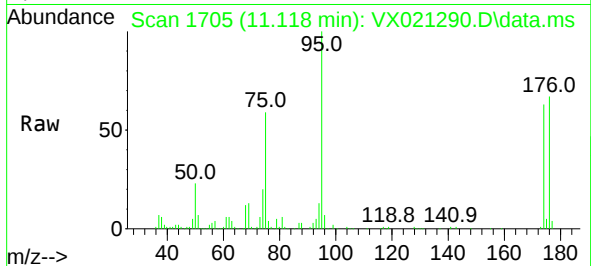




#60
4-Bromofluorobenzene
Concen: 28.57 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

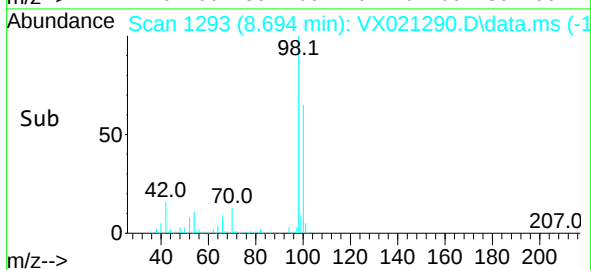
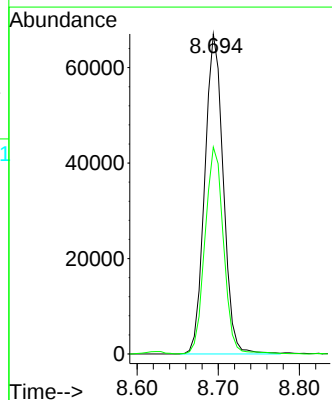
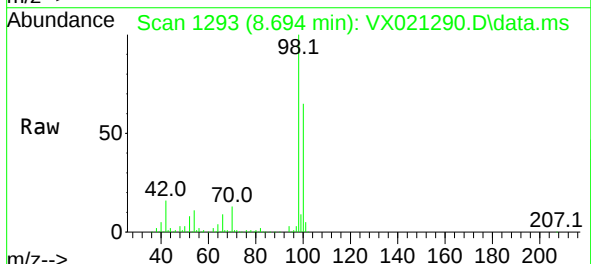
Instrument :
MSVOA_X
ClientSampled :

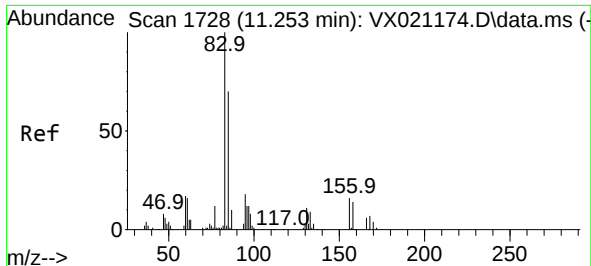
Tgt Ion: 95 Resp: 40964
Ion Ratio Lower Upper
95 100
174 71.7 63.0 94.4
176 71.7 59.9 89.9



#63
Toluene-d8
Concen: 29.80 ug/l
RT: 8.694 min Scan# 1293
Delta R.T. -0.006 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

Tgt Ion: 98 Resp: 106012
Ion Ratio Lower Upper
98 100
100 64.9 53.0 79.4

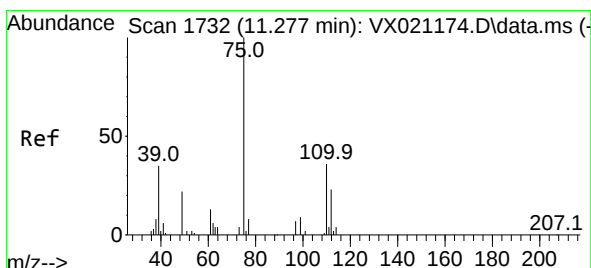
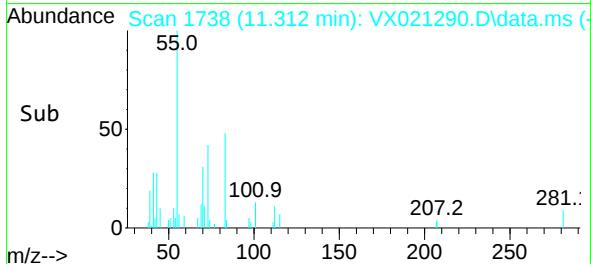
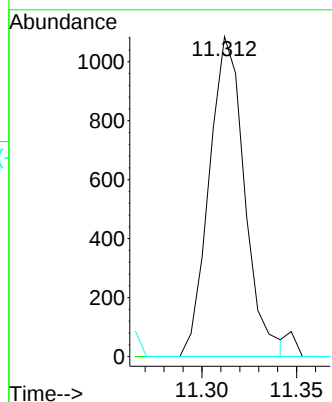
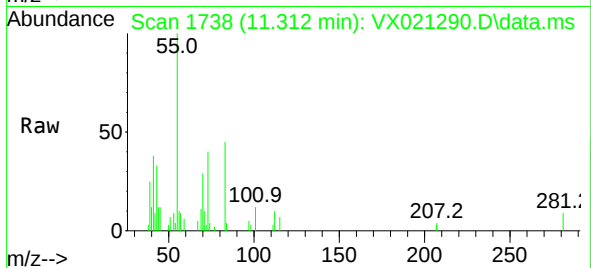




#71
1,1,2,2-Tetrachloroethane
Concen: 0.93 ug/l
RT: 11.312 min Scan# 1738
Delta R.T. 0.059 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

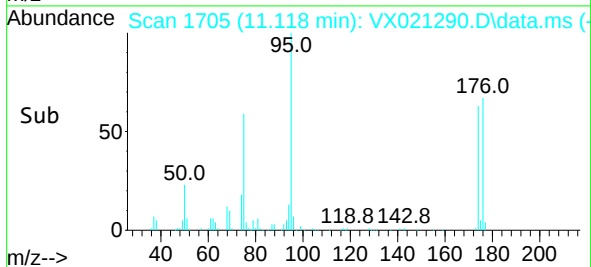
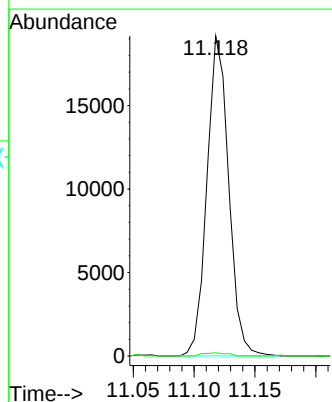
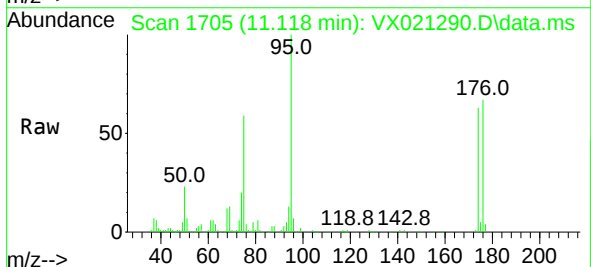
Instrument :
MSVOA_X
ClientSampled :

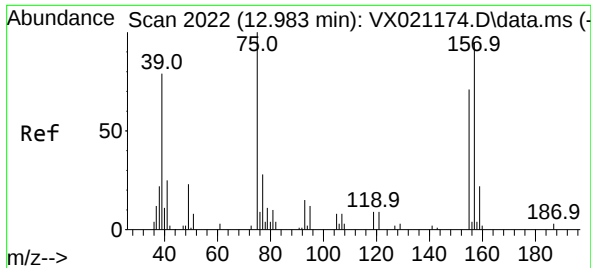
Tgt Ion: 83 Resp: 1412
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 5.0 32.0 96.0#



#72
1,2,3-Trichloropropane
Concen: 15.46 ug/l
RT: 11.118 min Scan# 1705
Delta R.T. -0.159 min
Lab File: VX021290.D
Acq: 18 Mar 2021 20:27

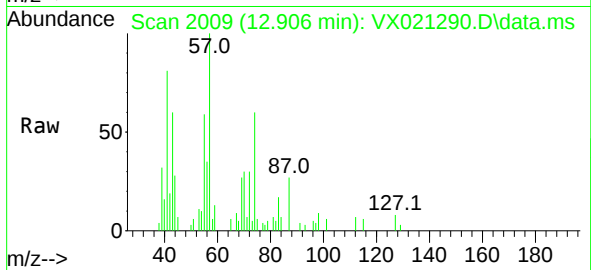
Tgt Ion: 75 Resp: 23778
Ion Ratio Lower Upper
75 100
77 1.1 0.0 74.6





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.40 ug/l
 RT: 12.906 min Scan# 2009
 Delta R.T. -0.076 min
 Lab File: VX021290.D
 Acq: 18 Mar 2021 20:27

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion: 75 Resp: 151
 Ion Ratio Lower Upper
 75 100
 155 0.0 68.9 103.3#
 157 0.0 91.3 136.9#

