

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019315.D
 Acq On : 05 Nov 2020 15:40
 Operator : JC/MD
 Sample : PB132824ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

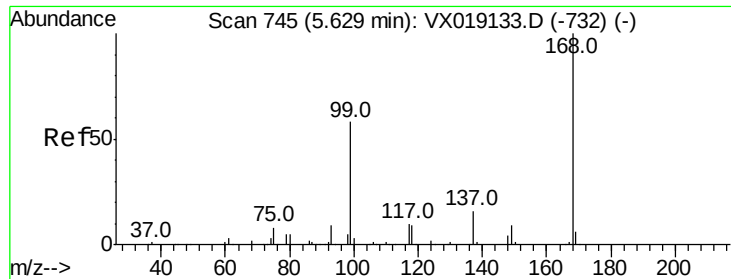
Quant Time: Nov 06 01:08:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	272293	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	488540	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	461676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	234759	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	198675	56.58	ug/l	0.00
Spiked Amount			Recovery	=	113.16%	
35) Dibromofluoromethane	5.46	113	156272	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
50) Toluene-d8	8.70	98	608544	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
62) 4-Bromofluorobenzene	11.12	95	231392	52.82	ug/l	0.00
Spiked Amount			Recovery	=	105.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1066	1.537	ug/l #	72
13) Acrolein	2.27	56	105	5.979	ug/l #	1
16) Acetone	2.42	43	15142	12.499	ug/l	95
17) Carbon Disulfide	2.55	76	294	0.798	ug/l #	75
18) Methyl Acetate	2.75	43	2834	0.962	ug/l	95
20) Methylene Chloride	2.84	84	8641	2.841	ug/l	94
25) 2-Butanone	4.65	43	2431	1.273	ug/l #	80
29) Tetrahydrofuran	5.09	42	1791	1.489	ug/l #	79
31) Cyclohexane	5.63	56	6068	1.367	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23078	5.116	ug/l #	49
38) Carbon Tetrachloride	5.63	117	28626	6.225	ug/l #	17
43) Isopropyl Acetate	6.41	43	75053	10.701	ug/l	98
48) Methyl methacrylate	7.85	41	120499	35.696	ug/l #	37
49) 1,4-Dioxane	7.85	88	216	2.877	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	76169	18.896	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	37090	6.763	ug/l #	62
56) Ethyl methacrylate	9.29	69	1097	0.223	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6481	1.181	ug/l #	42
59) 2-Hexanone	9.42	43	72604	23.661	ug/l #	20
74) N-amyl acetate	10.81	43	3384	0.557	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	119891	24.734	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	5122	0.365	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	119891	65.124	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

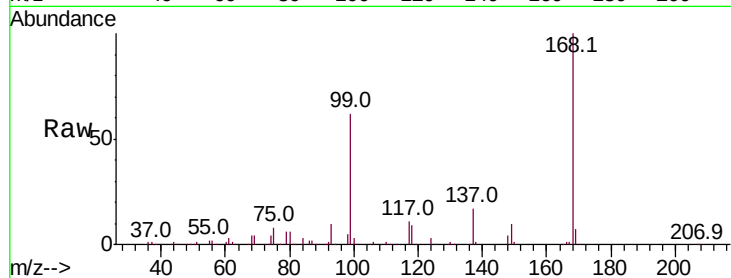
ClientSampleId :

Tot Ion:168 Resp: 272293

Ion Ratio Lower Upper

168 100

99 61.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

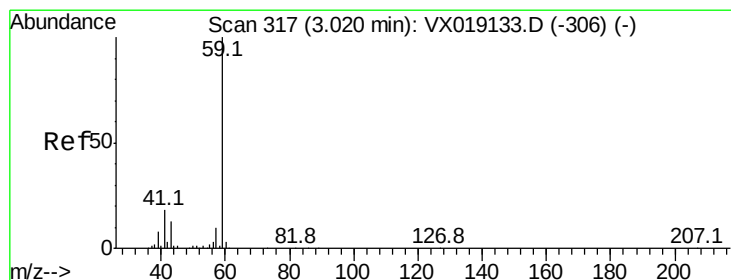
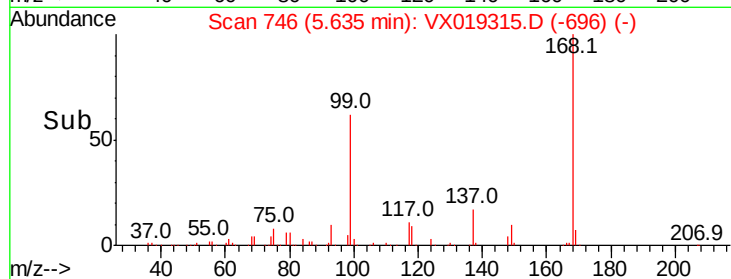
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.537 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019315.D

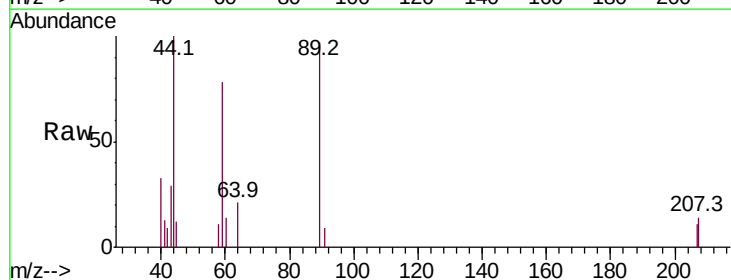
Acq: 05 Nov 2020 15:40

Tgt Ion: 59 Resp: 1066

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

500

400

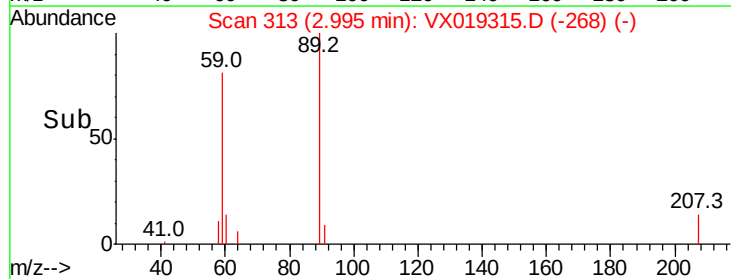
300

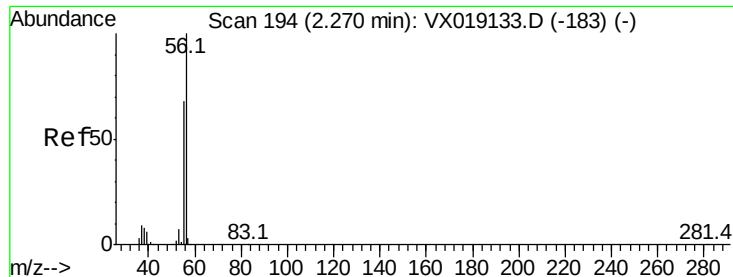
200

100

0

Time--> 2.95 3.00 3.05





#13

Acrolein

Concen: 5.979 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

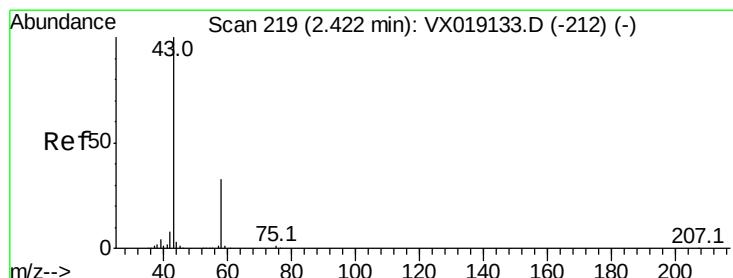
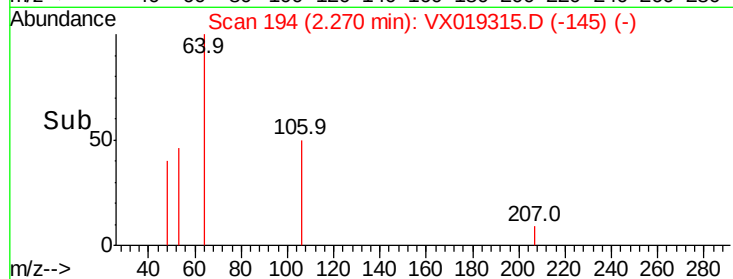
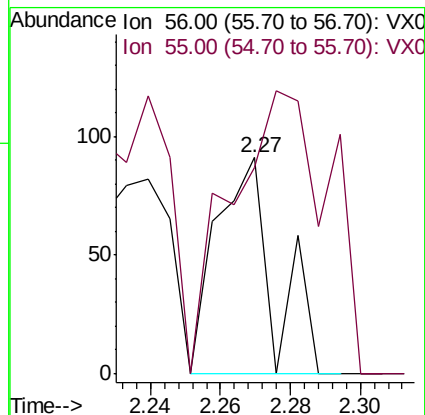
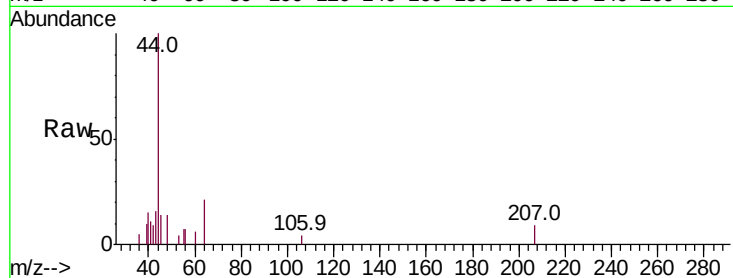
ClientSampled :

Tot Ion: 56 Resp: 105

Ion Ratio Lower Upper

56 100

55 220.0 54.7 82.1#



#16

Acetone

Concen: 12.499 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019315.D

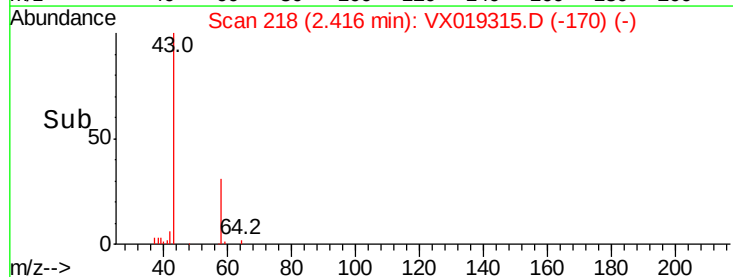
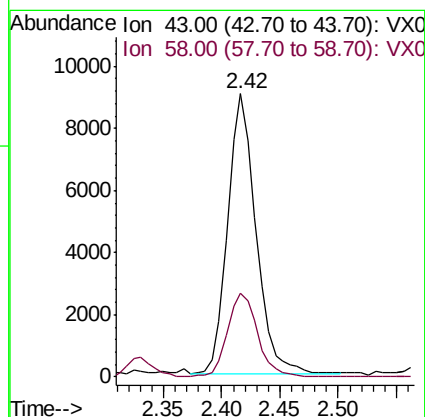
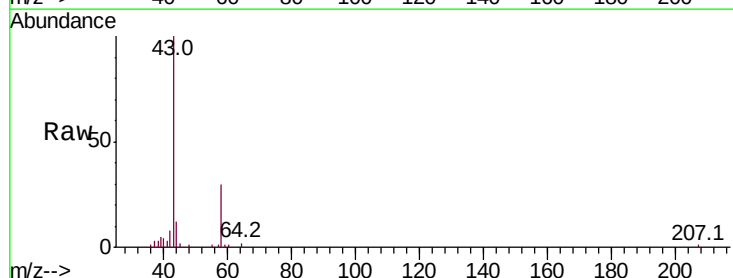
Acq: 05 Nov 2020 15:40

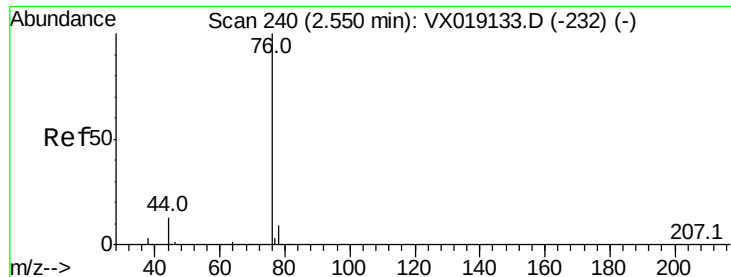
Tgt Ion: 43 Resp: 15142

Ion Ratio Lower Upper

43 100

58 30.1 26.3 39.5

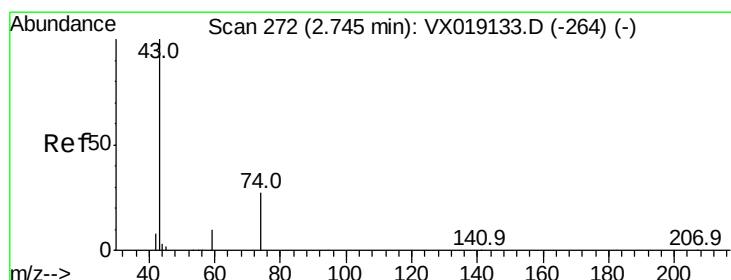
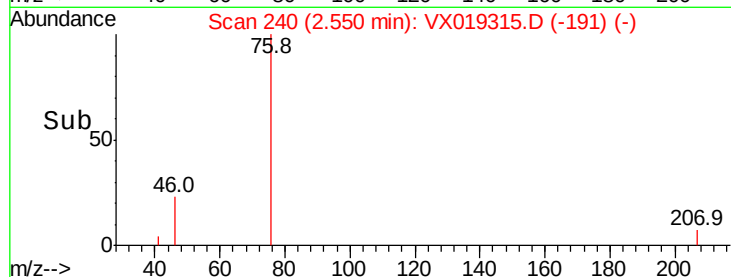
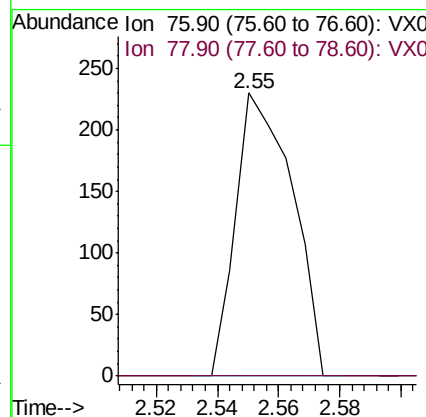
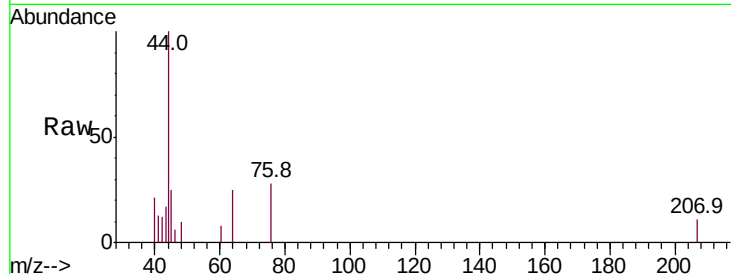




#17
Carbon Disulfide
Concen: 0.798 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

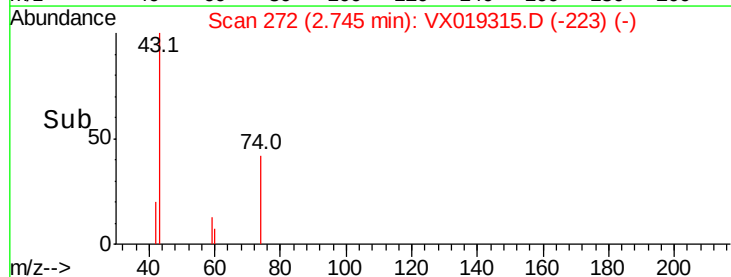
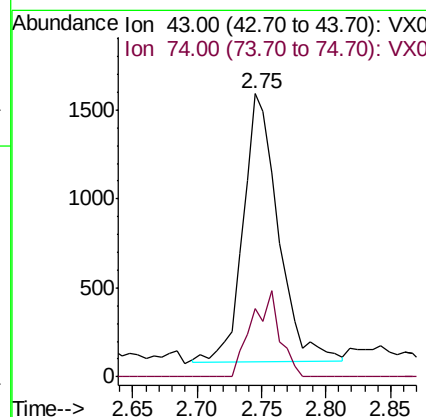
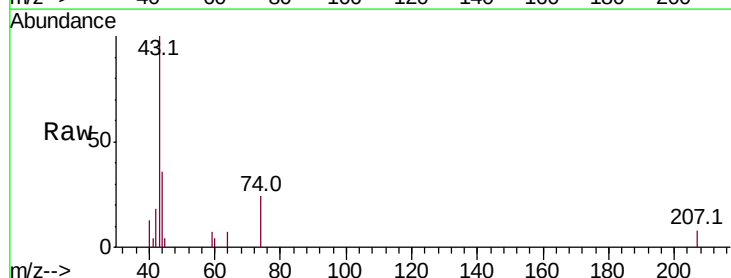
Instrument :
MSVOA_X
ClientSampled :

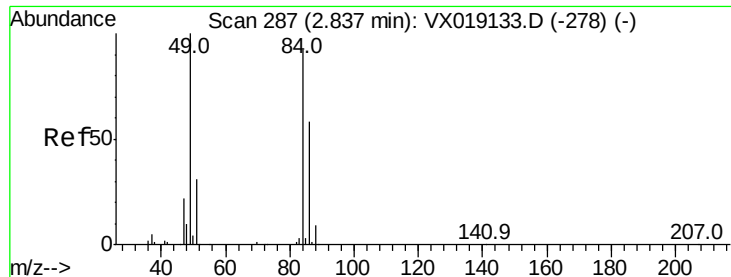
Tot Ion: 76 Resp: 294
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 0.962 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

Tgt Ion: 43 Resp: 2834
Ion Ratio Lower Upper
43 100
74 25.6 22.6 33.8

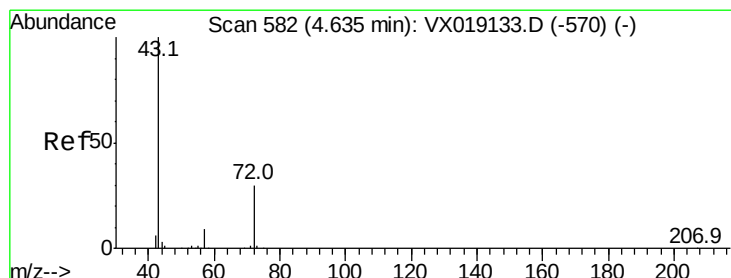
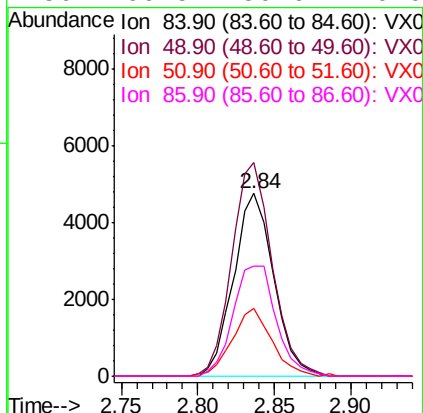
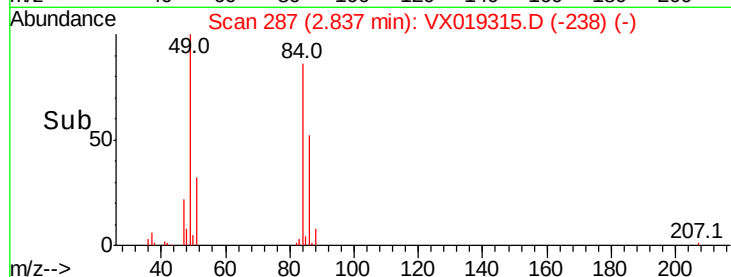
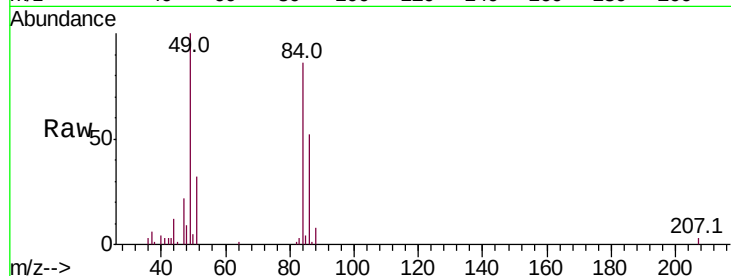




#20
Methvlene Chloride
Concen: 2.841 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

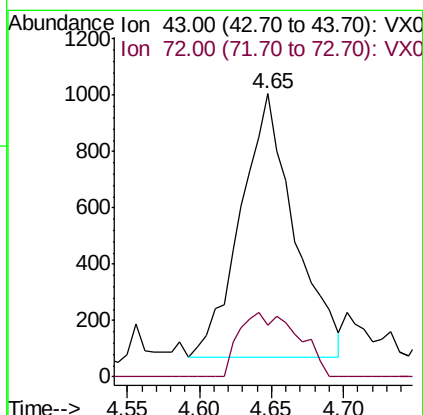
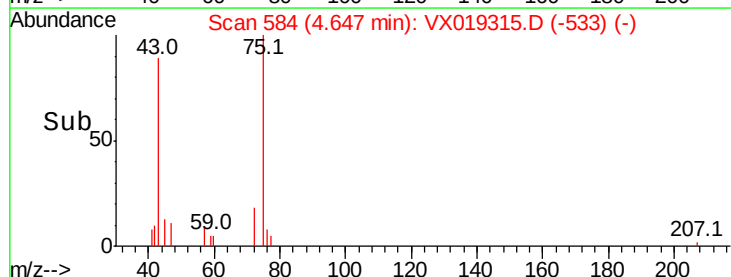
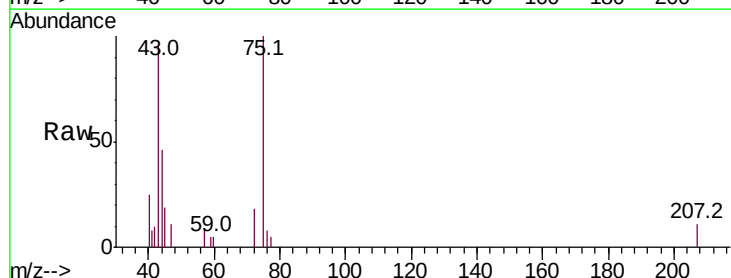
Instrument :
MSVOA_X
ClientSampleId :

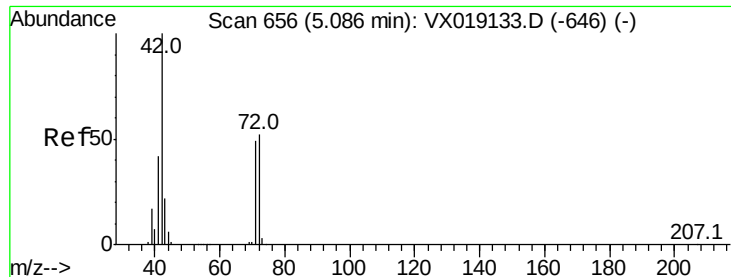
Tot Ion:	84	Resp:	8641
Ion	Ratio	Lower	Upper
84	100		
49	116.8	86.8	130.2
51	37.0	27.3	40.9
86	60.5	50.6	76.0



#25
2-Butanone
Concen: 1.273 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

Tgt Ion:	43	Resp:	2431
Ion	Ratio	Lower	Upper
43	100		
72	19.7	24.6	36.8#





#29

Tetrahydrofuran

Concen: 1.489 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

ClientSampled :

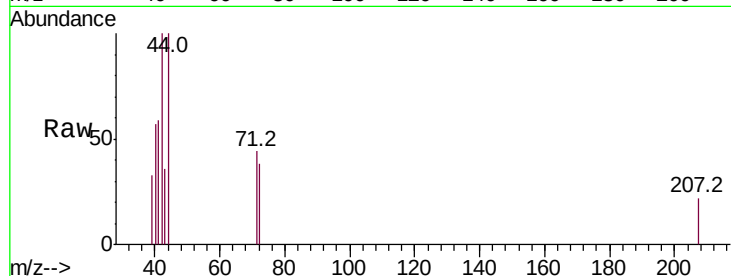
Tot Ion: 42 Resp: 1791

Ion Ratio Lower Upper

42 100

72 36.9 42.6 63.8#

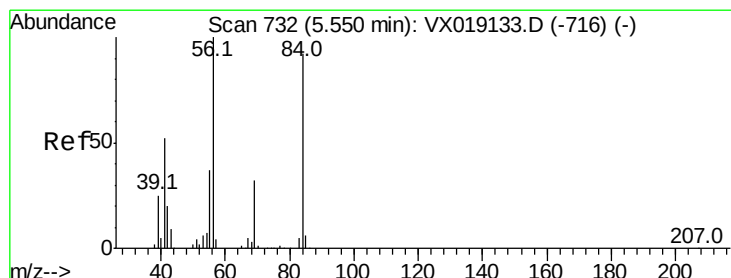
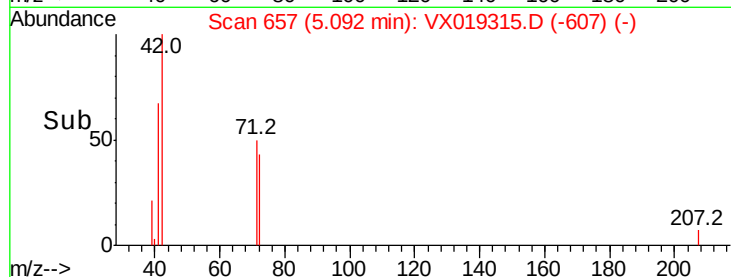
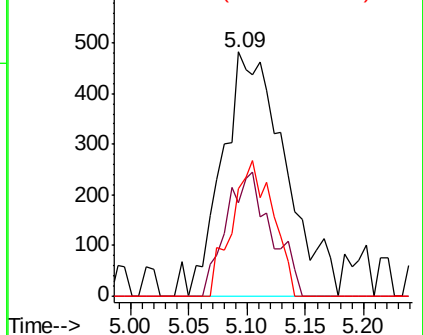
71 36.3 39.7 59.5#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.367 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

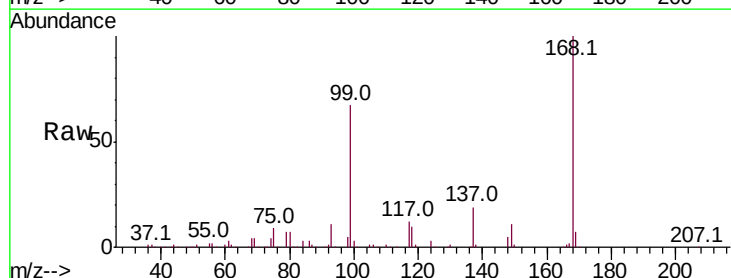
Tgt Ion: 56 Resp: 6068

Ion Ratio Lower Upper

56 100

69 179.5 25.9 38.9#

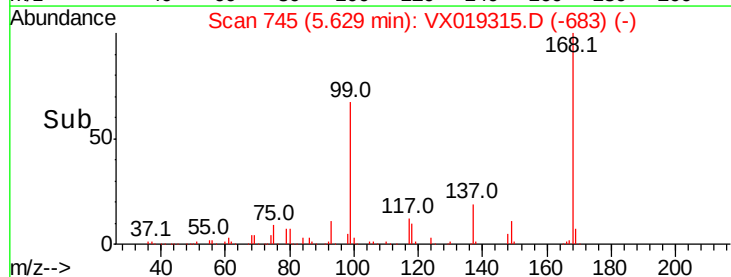
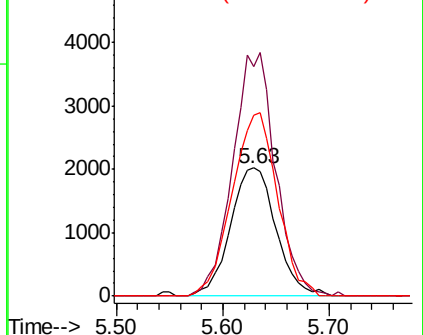
84 140.9 73.4 110.2#

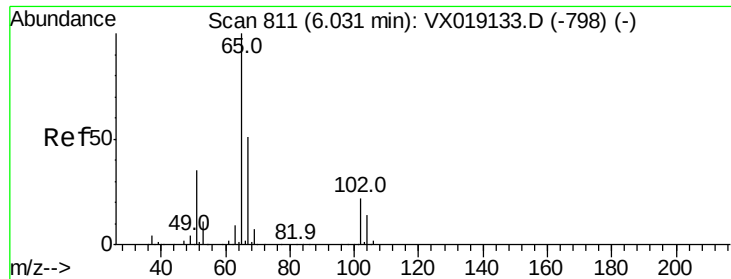


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

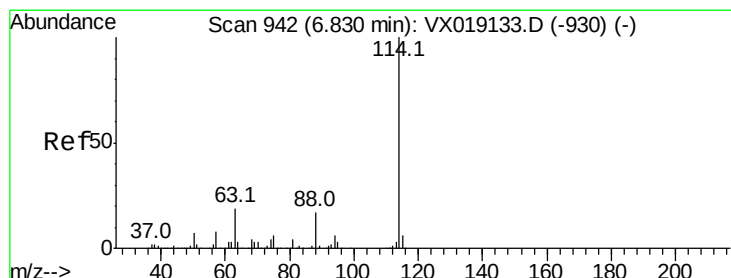
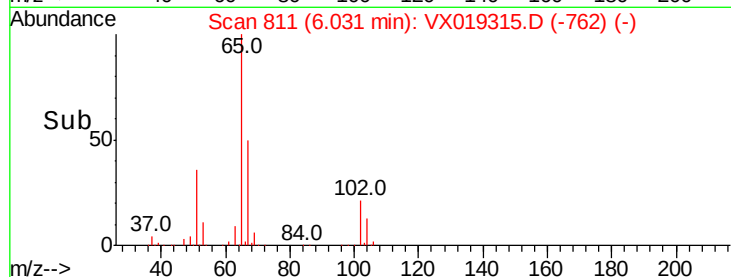
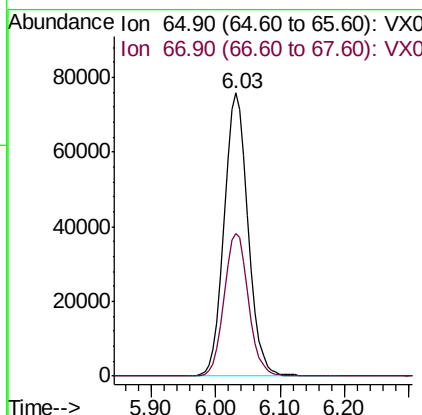
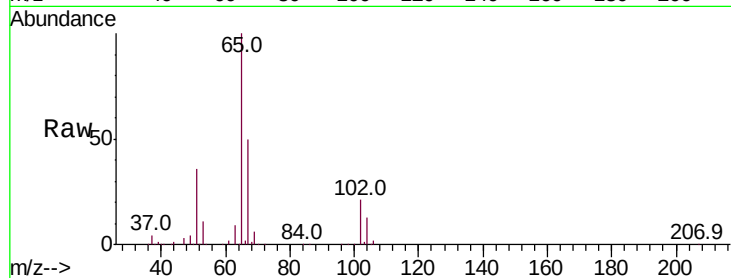




#33
 1,2-Dichloroethane-d4
 Concen: 56.578 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019315.D
 Acq: 05 Nov 2020 15:40

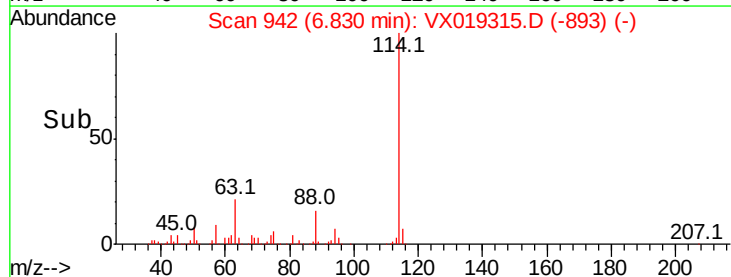
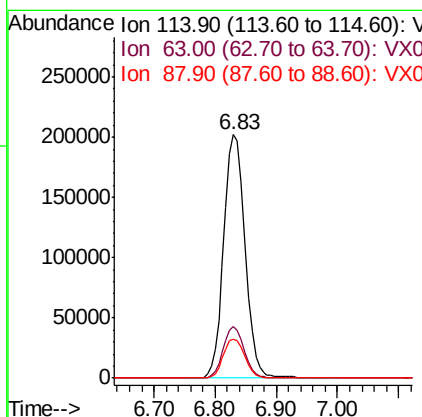
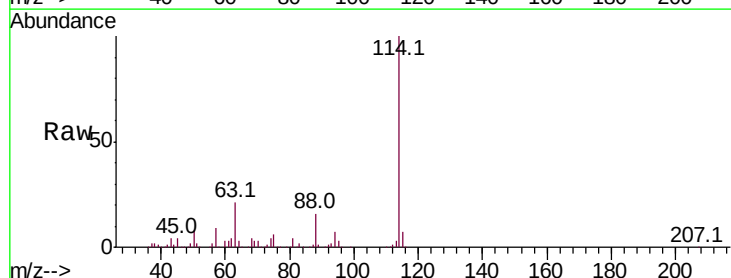
Instrument :
 MSVOA_X
 ClientSampleId :

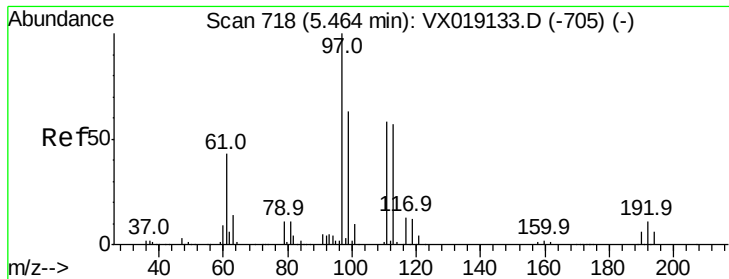
Tot Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019315.D
 Acq: 05 Nov 2020 15:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	38.8
88	16.2	0.0	34.2





#35

Dibromofluoromethane

Concen: 50.925 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

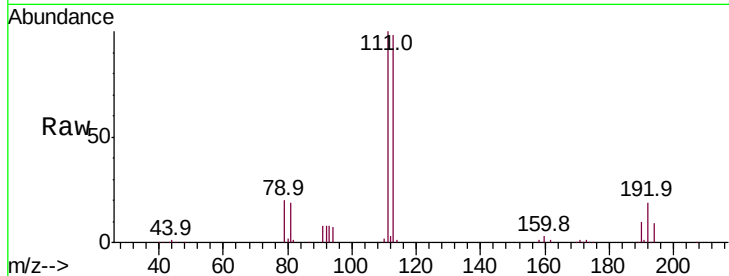
Tot Ion:113 Resp: 156272

Ion Ratio Lower Upper

113 100

111 102.6 82.3 123.5

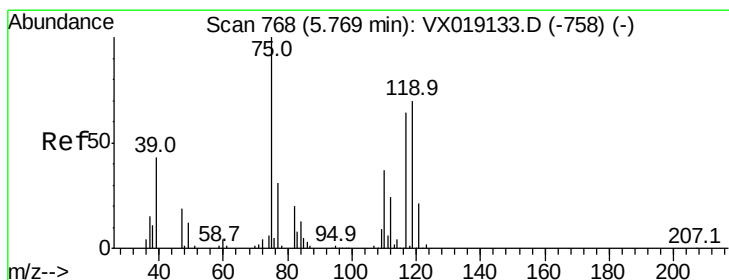
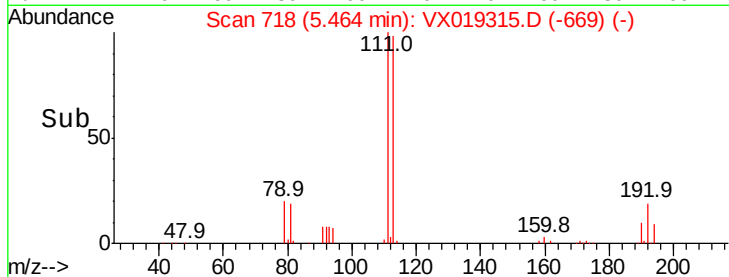
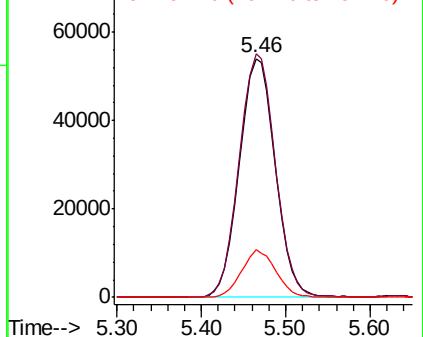
192 19.1 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.116 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

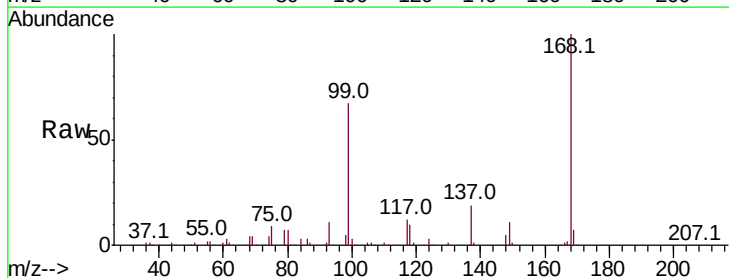
Tgt Ion: 75 Resp: 23078

Ion Ratio Lower Upper

75 100

110 8.9 18.3 54.9#

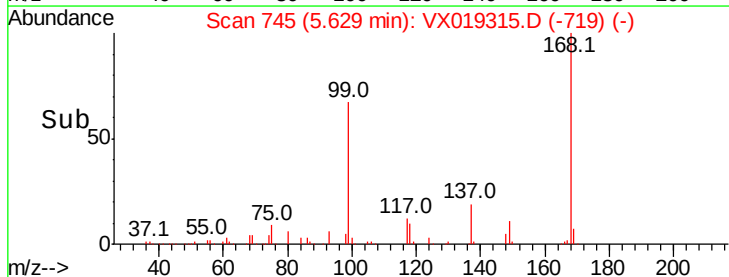
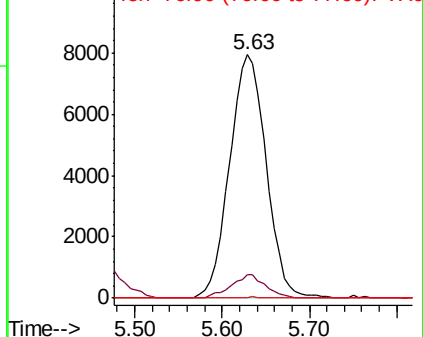
77 0.1 24.9 37.3#

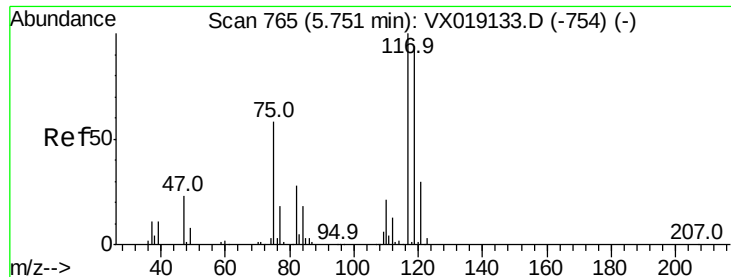


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.225 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

ClientSampled :

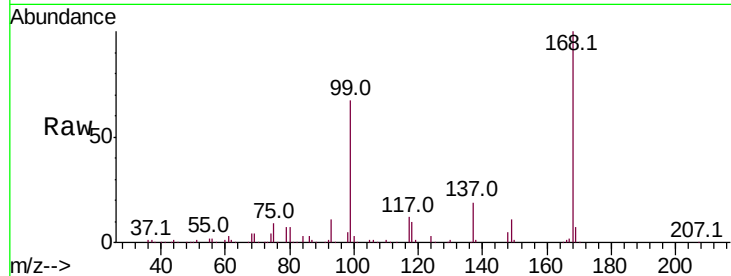
Tot Ion:117 Resp: 28626

Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.6#

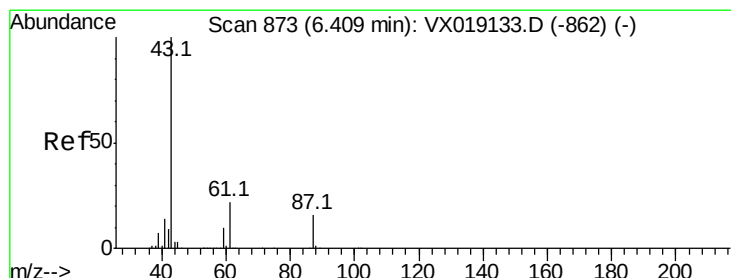
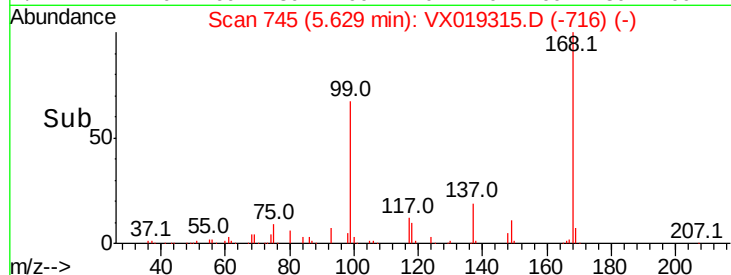
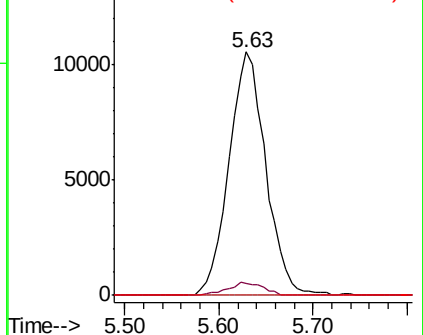
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.701 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

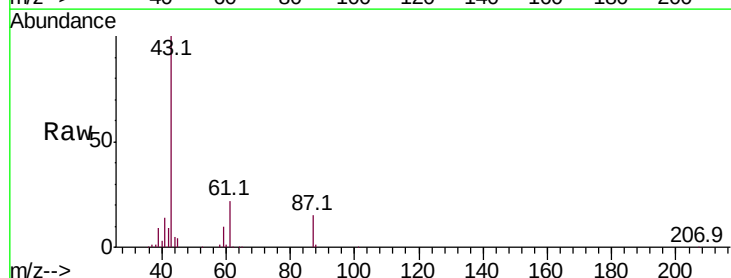
Tgt Ion: 43 Resp: 75053

Ion Ratio Lower Upper

43 100

61 21.6 17.8 26.6

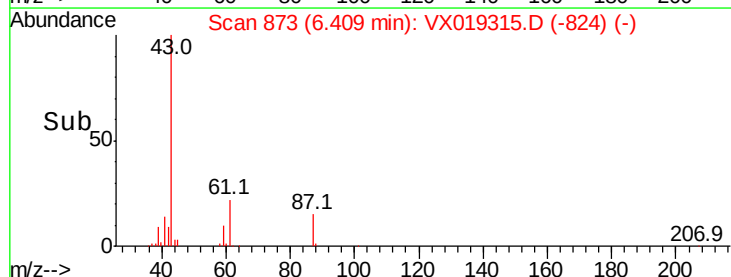
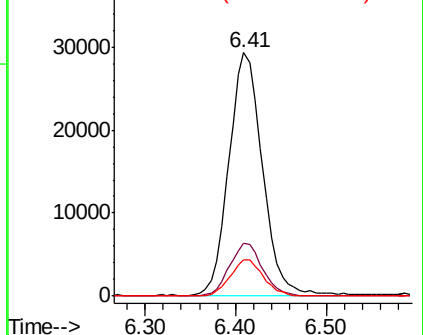
87 14.9 12.6 19.0

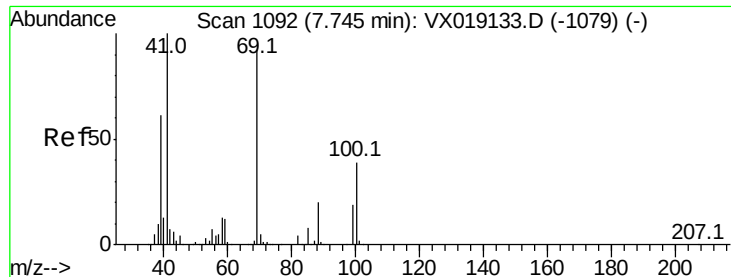


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

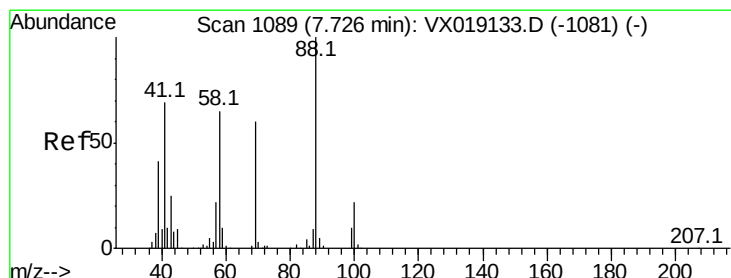
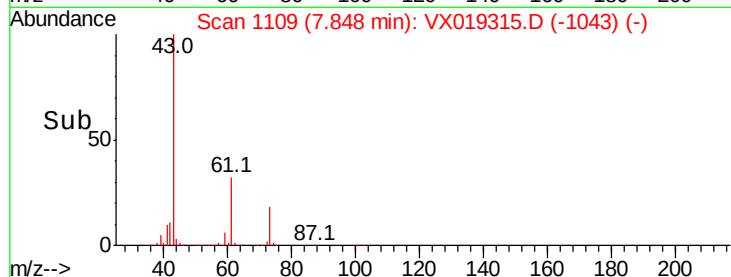
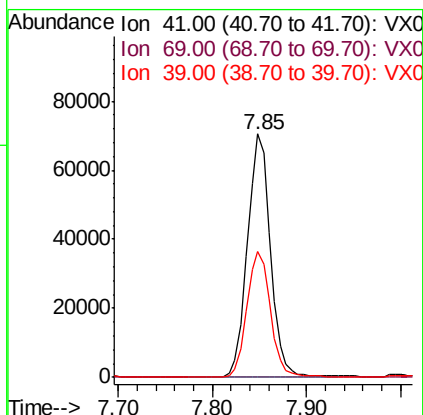
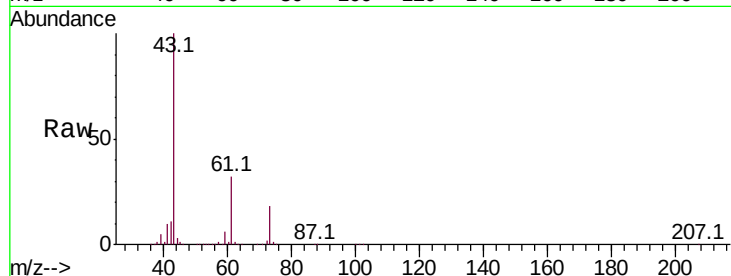




#48
Methvl methacrylate
Concen: 35.696 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

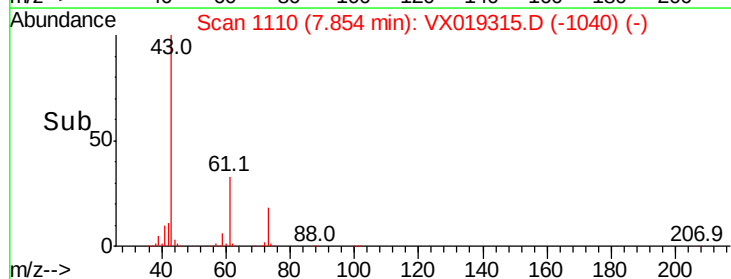
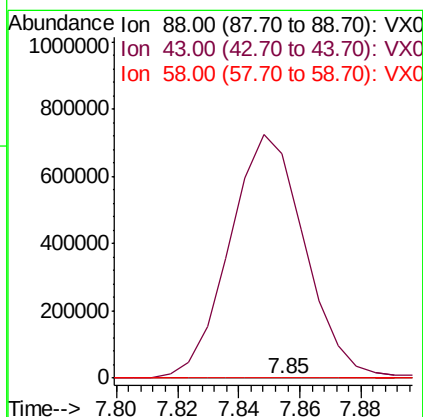
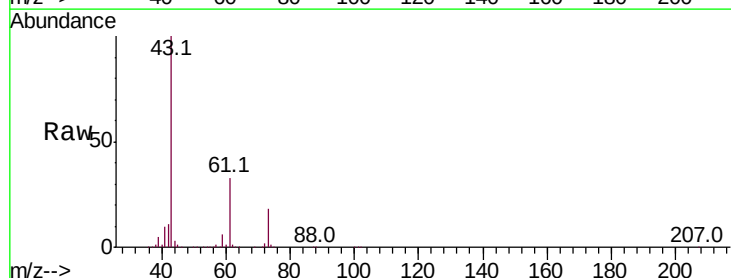
Instrument :
MSVOA_X
ClientSampleId :

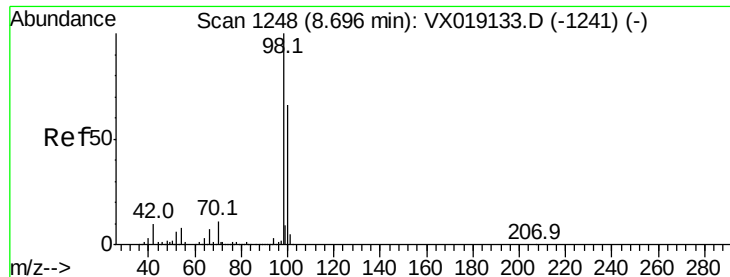
Tot Ion: 41 Resp: 120499
Ion Ratio Lower Upper
41 100
69 0.3 75.5 113.3#
39 53.5 48.9 73.3



#49
1,4-Dioxane
Concen: 2.877 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.13 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

Tgt Ion: 88 Resp: 216
Ion Ratio Lower Upper
88 100
43 577889.4 23.0 34.6#
58 2721.3 52.2 78.2#

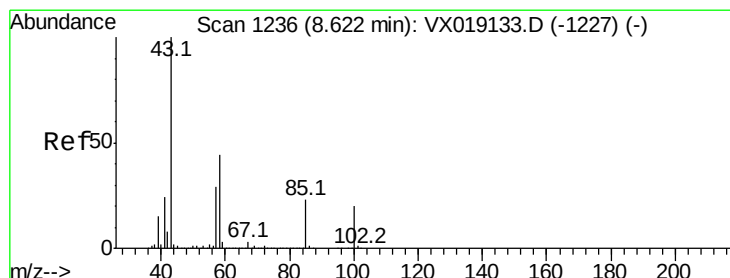
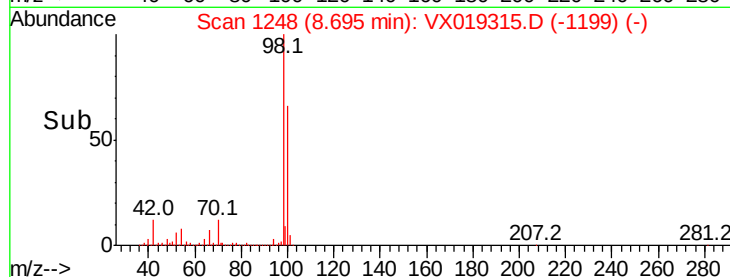
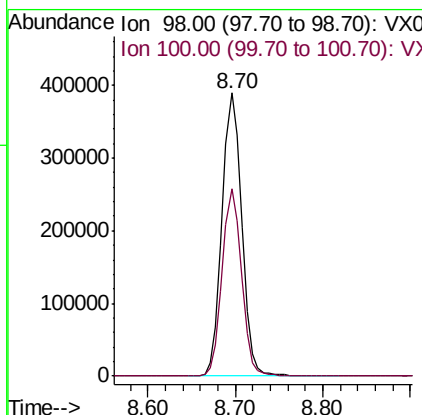
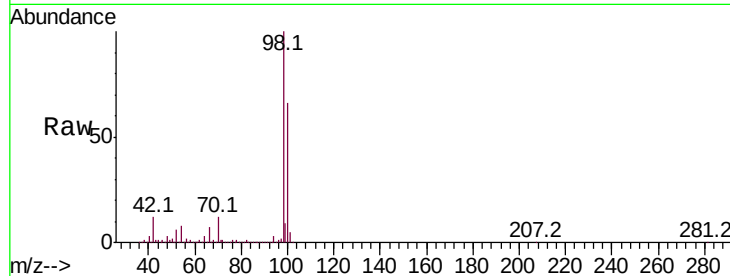




#50
Toluene-d8
Concen: 52.606 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

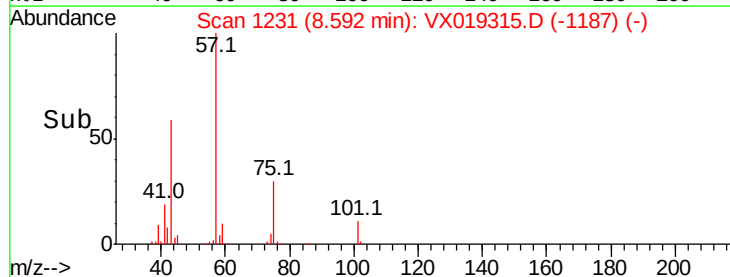
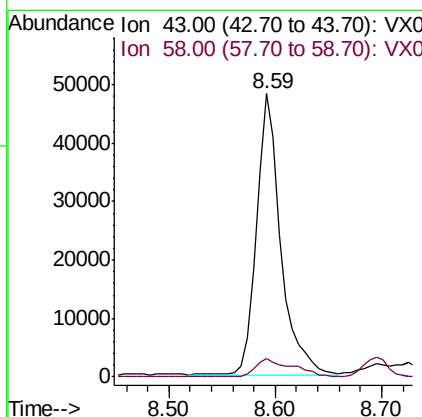
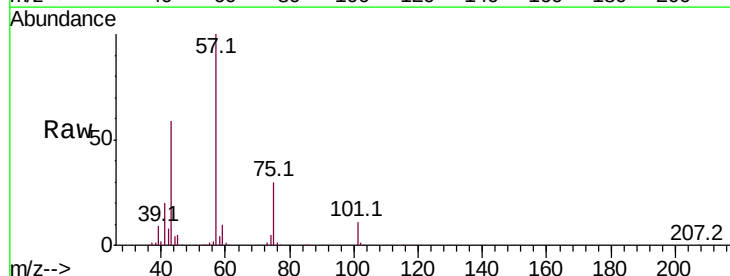
Instrument :
MSVOA_X
ClientSampleId :

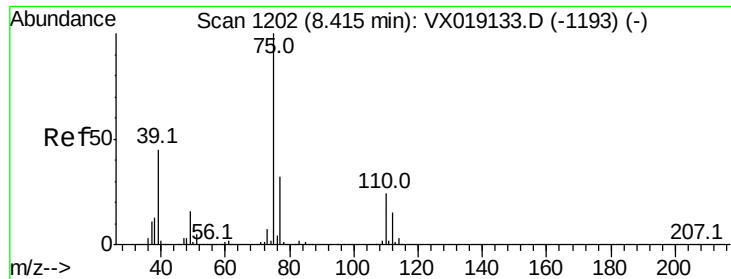
Tot Ion: 98 Resp: 608544
Ion Ratio Lower Upper
98 100
100 65.2 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 18.896 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

Tgt Ion: 43 Resp: 76169
Ion Ratio Lower Upper
43 100
58 9.9 35.0 52.4#



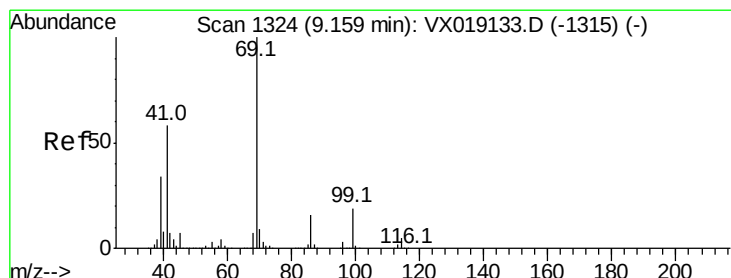
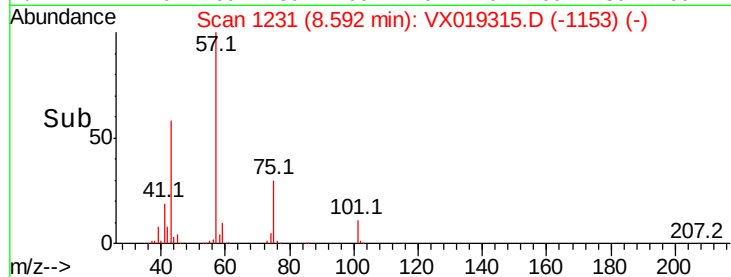
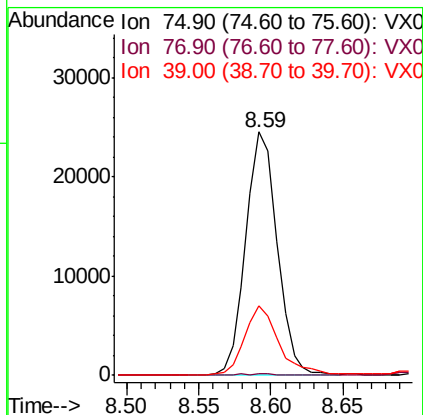
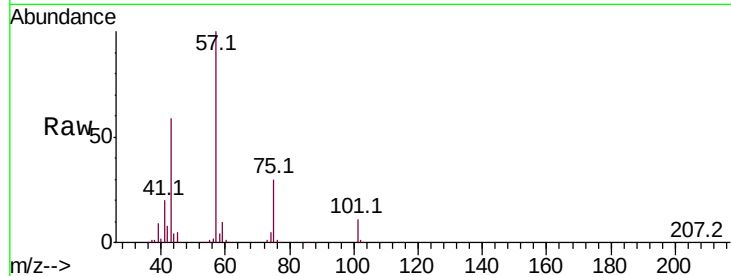


#54

cis-1,3-Dichloropropene
 Concen: 6.763 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019315.D
 Acq: 05 Nov 2020 15:40

Instrument :
 MSVOA_X
 ClientSampleId :

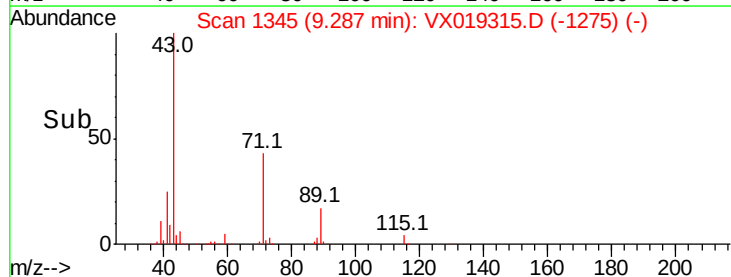
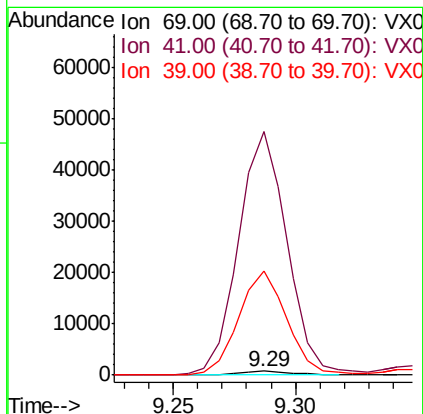
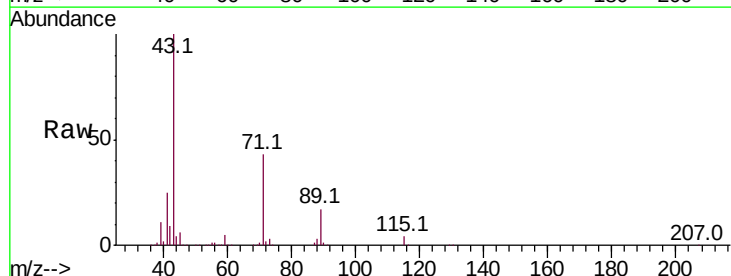
Tot Ion: 75 Resp: 37090
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.5 38.3#
 39 28.4 36.2 54.2#

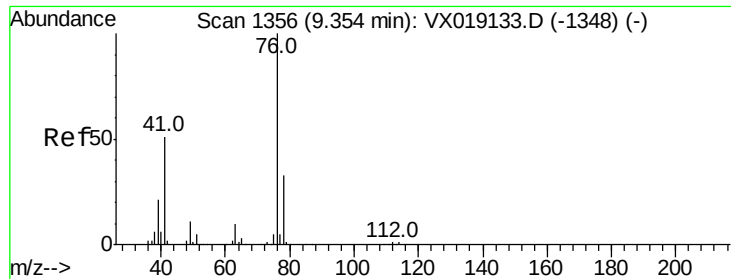


#56

Ethyl methacrylate
 Concen: 0.223 ug/l
 RT: 9.29 min Scan# 1345
 Delta R.T. 0.13 min
 Lab File: VX019315.D
 Acq: 05 Nov 2020 15:40

Tgt Ion: 69 Resp: 1097
 Ion Ratio Lower Upper
 69 100
 41 6007.0 46.5 69.7#
 39 2555.5 27.6 41.4#





#57

1,3-Dichloropropane

Concen: 1.181 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

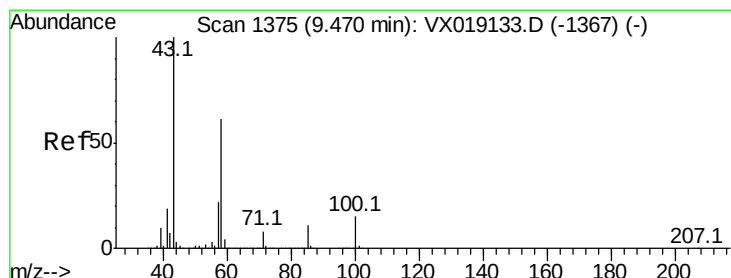
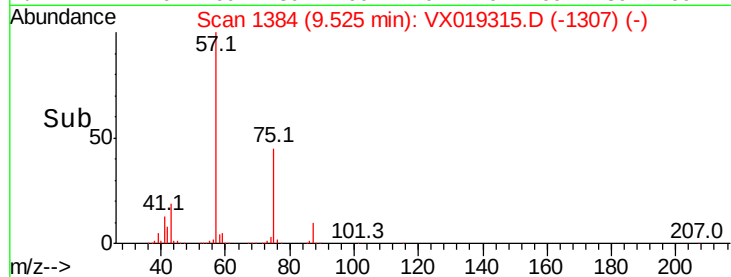
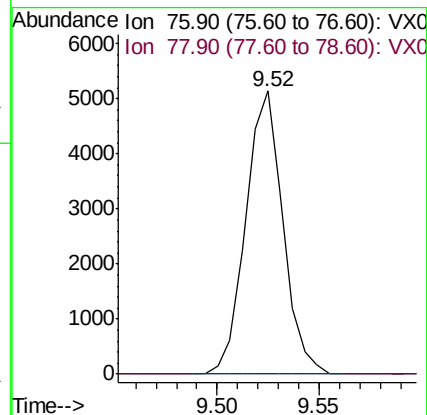
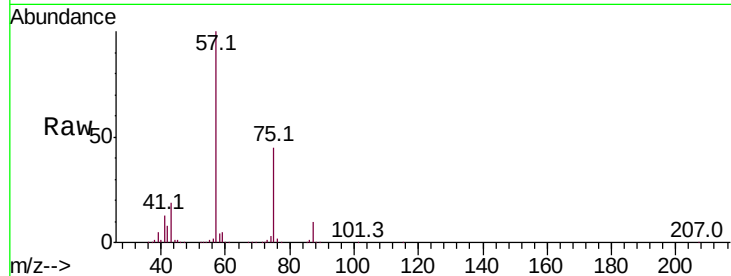
ClientSampleId :

Tot Ion: 76 Resp: 6481

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 23.661 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019315.D

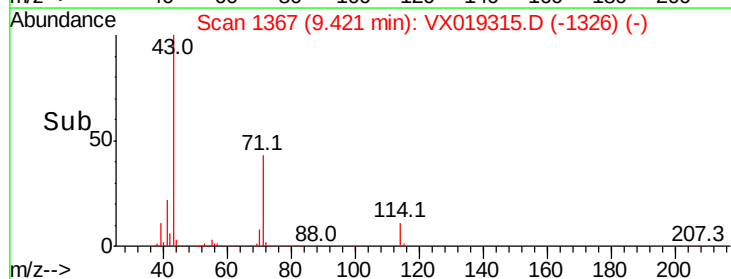
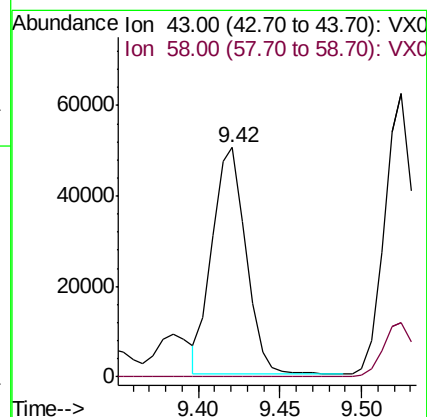
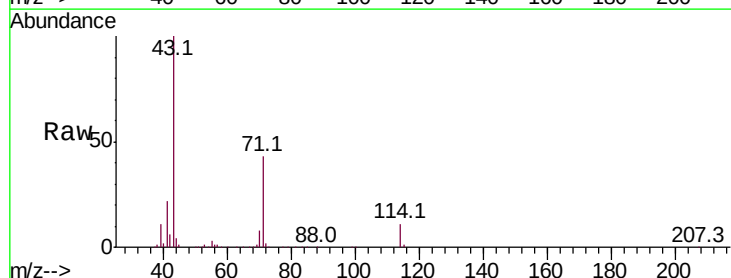
Acq: 05 Nov 2020 15:40

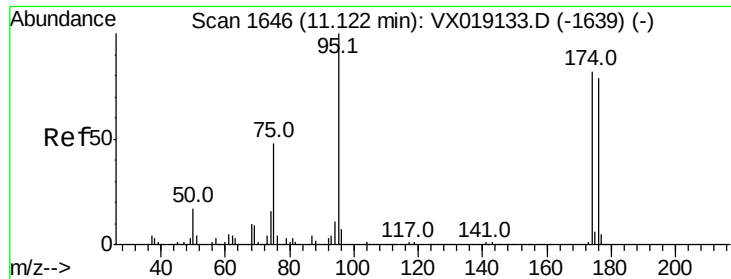
Tgt Ion: 43 Resp: 72604

Ion Ratio Lower Upper

43 100

58 0.0 30.5 91.5#

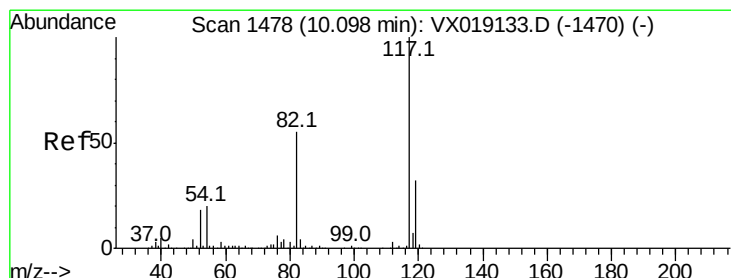
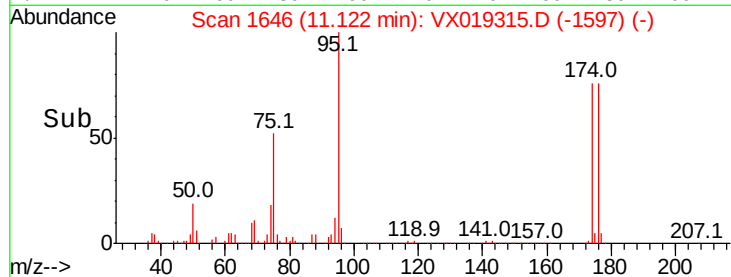
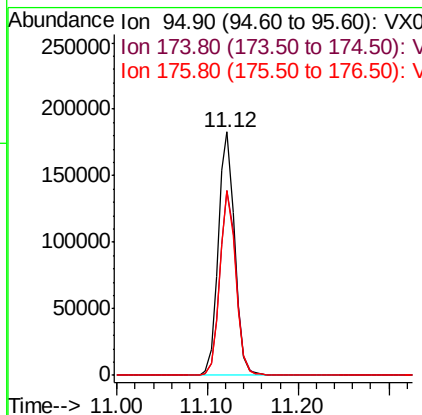
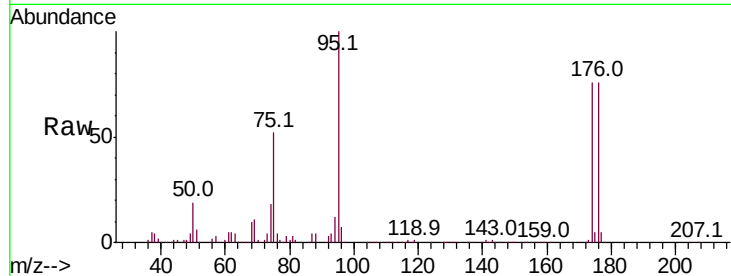




#62
4-Bromofluorobenzene
Concen: 52.819 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

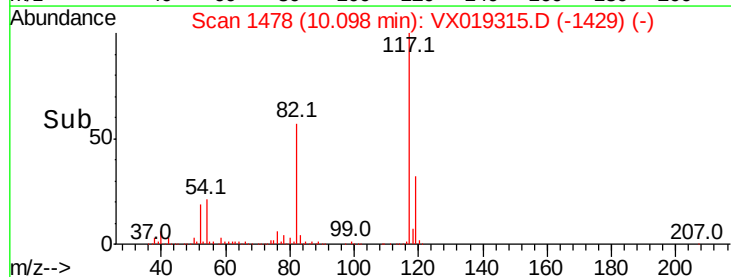
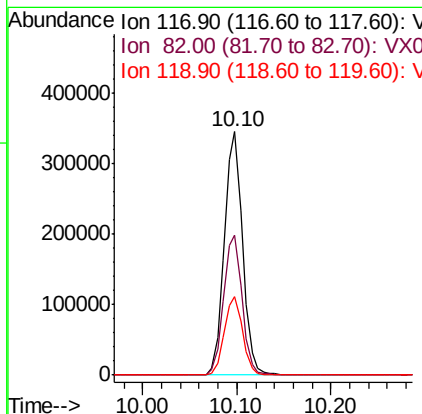
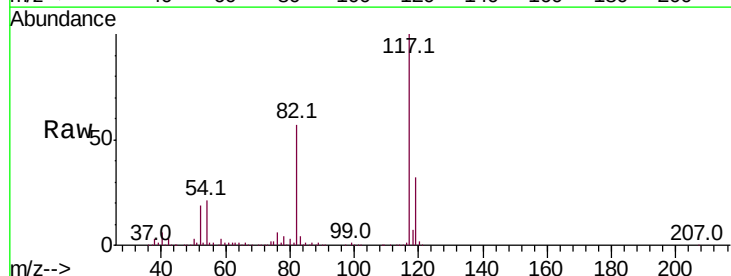
Instrument :
MSVOA_X
ClientSampled :

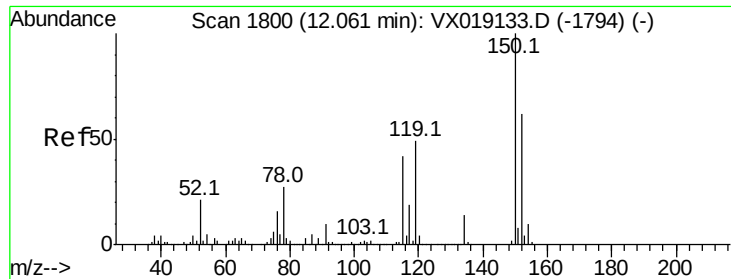
Tot Ion: 95 Resp: 231392
Ion Ratio Lower Upper
95 100
174 74.9 0.0 156.0
176 73.3 0.0 149.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019315.D
Acq: 05 Nov 2020 15:40

Tgt Ion: 117 Resp: 461676
Ion Ratio Lower Upper
117 100
82 57.3 43.6 65.4
119 32.5 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

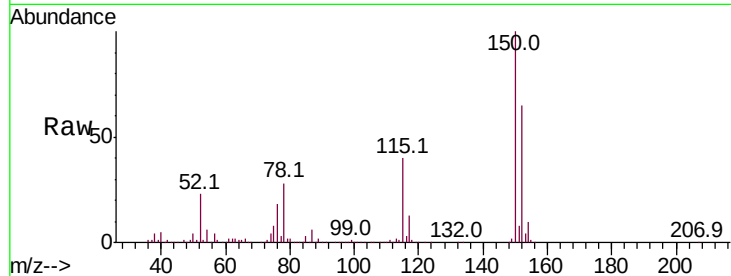
Tot Ion:152 Resp: 234759

Ion Ratio Lower Upper

152 100

115 60.5 41.9 125.7

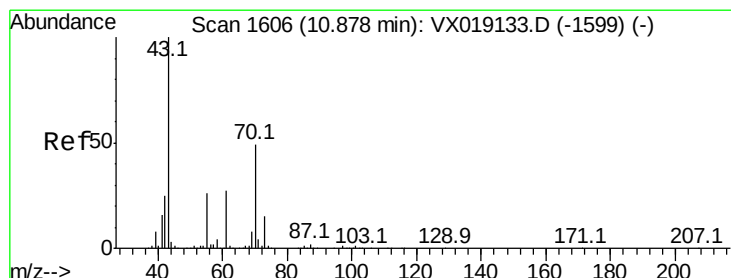
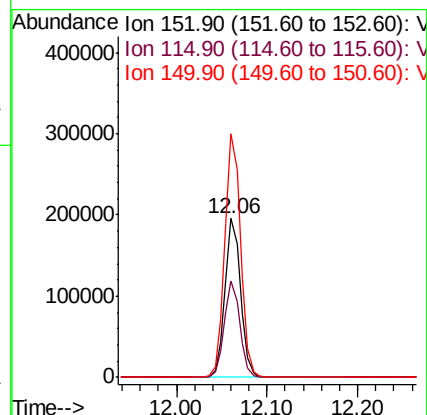
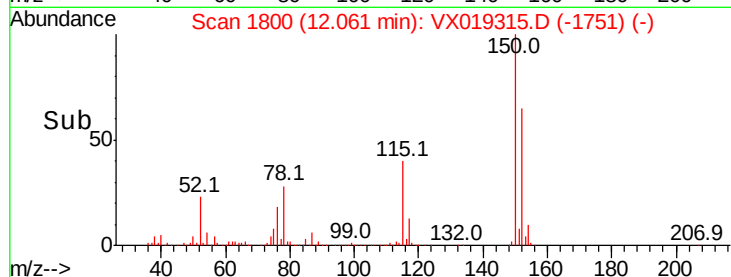
150 155.5 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.557 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Tgt Ion: 43 Resp: 3384

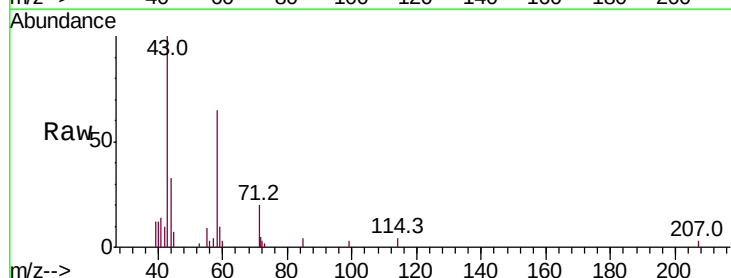
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 10.2 20.7 31.1#

61 0.0 21.9 32.9#

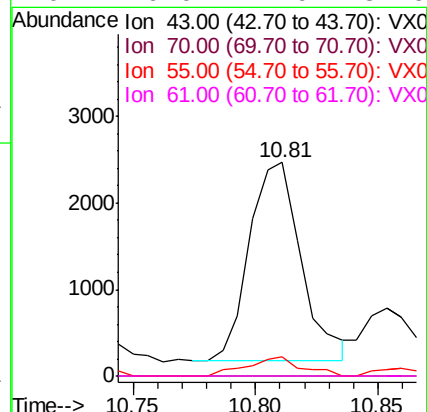
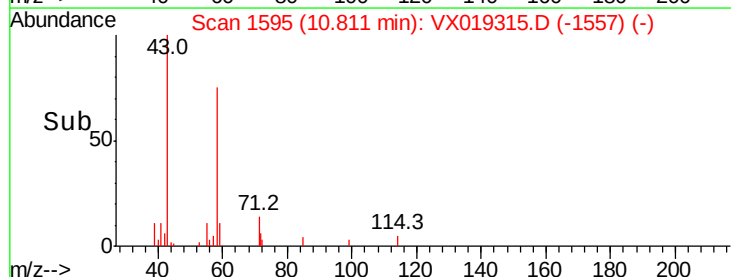


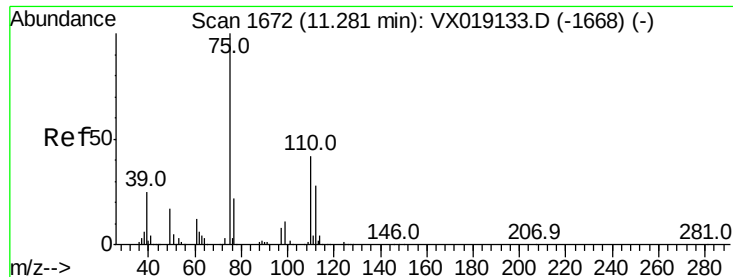
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.734 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019315.D

Acq: 05 Nov 2020 15:40

Instrument :

MSVOA_X

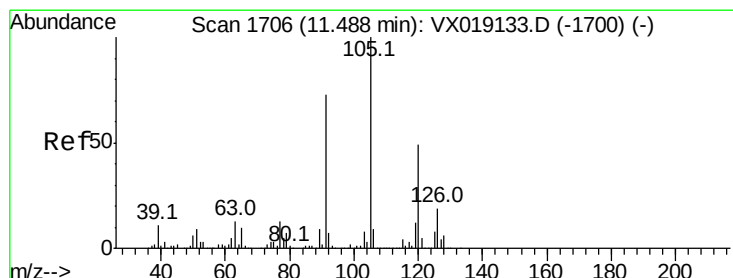
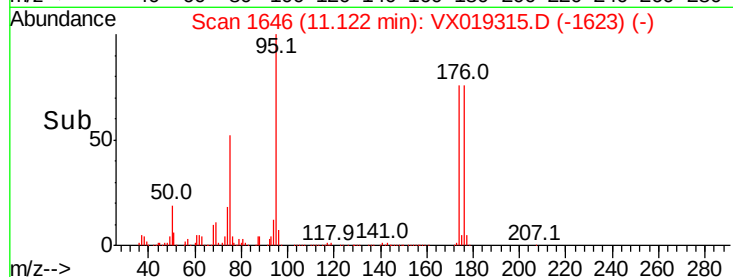
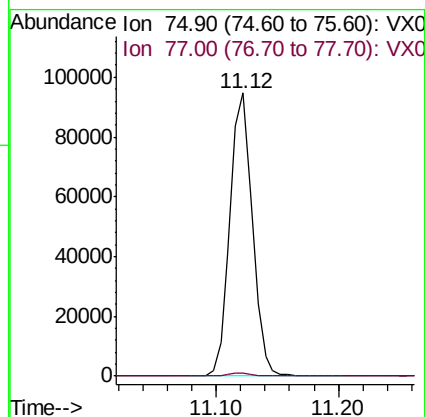
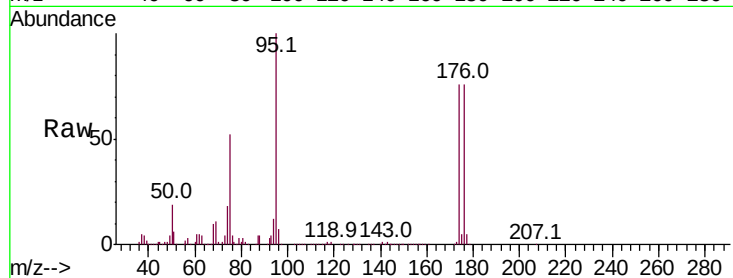
ClientSampleId :

Tot Ion: 75 Resp: 119891

Ion Ratio Lower Upper

75 100

77 1.2 20.3 60.9#



#80

1,3,5-Trimethylbenzene

Concen: 0.365 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019315.D

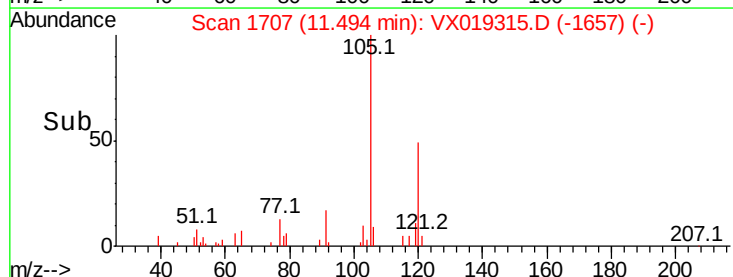
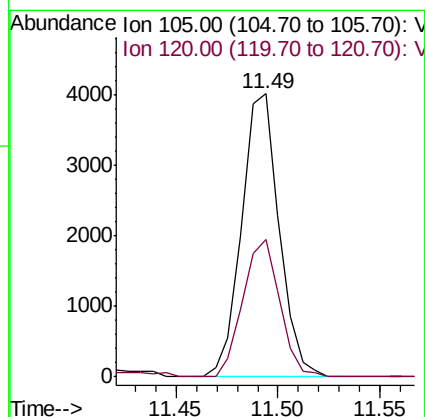
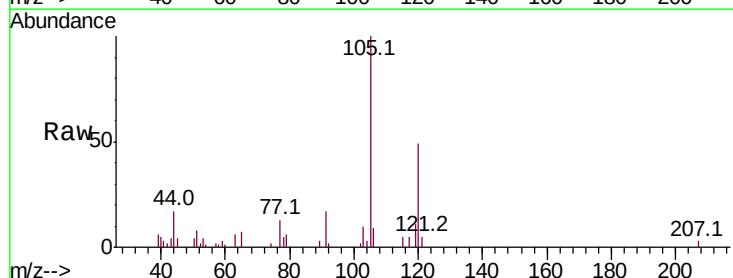
Acq: 05 Nov 2020 15:40

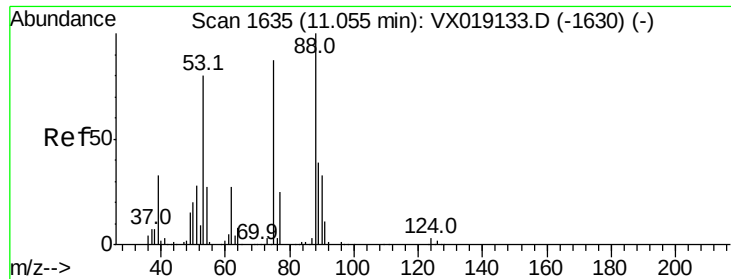
Tgt Ion: 105 Resp: 5122

Ion Ratio Lower Upper

105 100

120 47.6 24.3 72.8





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.124 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019315.D
 Acq: 05 Nov 2020 15:40

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 119891
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.3 109.9#
 89 0.0 38.2 57.2#

