

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020018.D
 Acq On : 15 Dec 2020 17:44
 Operator : JC/MD
 Sample : PB133610TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610TB

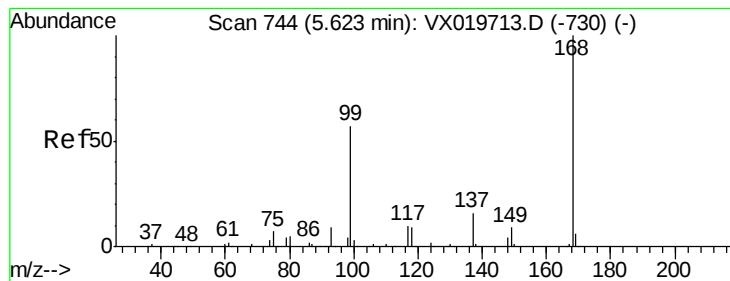
Quant Time: Dec 16 00:27:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	315929	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	526586	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	484602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204893	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	199892	48.14	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.28%	
35) Dibromofluoromethane		5.46	113	160716	47.22	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.44%	
50) Toluene-d8		8.70	98	643386	49.52	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.04%	
62) 4-Bromofluorobenzene		11.12	95	224522	45.40	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.28	50	1161	0.341	ug/l #	42
5) Bromomethane	1.64	94	570	0.479	ug/l #	74
6) Chloroethane	1.61	64	3408	1.582	ug/l #	54
11) Tert butyl alcohol	3.00	59	4940	3.207	ug/l #	80
13) Acrolein	2.28	56	133	0.290	ug/l #	40
16) Acetone	2.42	43	19608	12.563	ug/l	94
18) Methyl Acetate	2.75	43	1555	0.407	ug/l	99
20) Methylene Chloride	2.83	84	20381	4.424	ug/l	98
25) 2-Butanone	4.65	43	3589	1.497	ug/l	90
29) Tetrahydrofuran	5.12	42	1332	0.862	ug/l	88
31) Cyclohexane	5.62	56	6079	1.177	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24358	5.119	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30617	6.571	ug/l #	17
43) Isopropyl Acetate	6.41	43	25961	3.324	ug/l	99
48) Methyl methacrylate	7.65	41	6917	1.801	ug/l #	10
49) 1,4-Dioxane	7.85	88	228	2.450	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	89319	18.730	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	47900	8.162	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	28576	4.568	ug/l #	43
59) 2-Hexanone	9.52	43	343055	92.805	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	108159	23.536	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108159	68.039	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020018.D

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MSVOA_X

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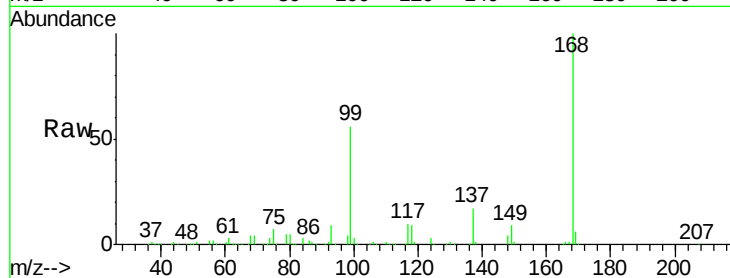
PB133610TB

Tgt Ion:168 Resp: 315929

Ion Ratio Lower Upper

168 100

99 56.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

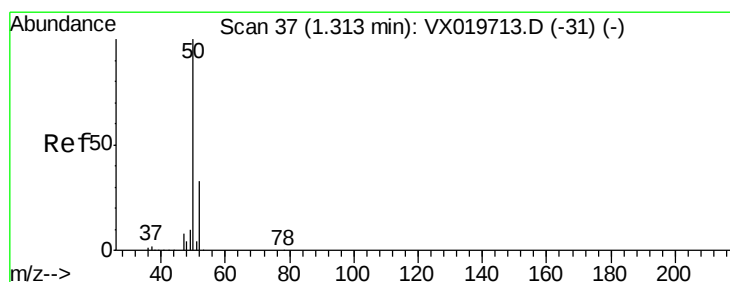
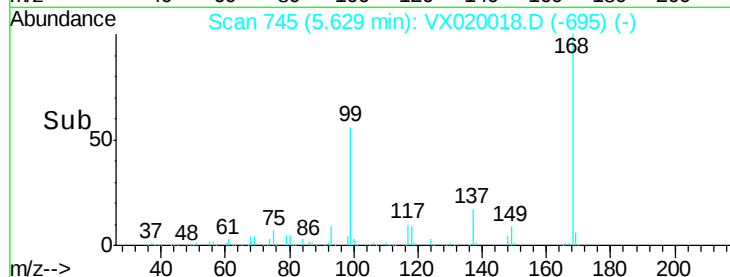
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.341 ug/l

RT: 1.28 min Scan# 31

Delta R.T. -0.04 min

Lab File: VX020018.D

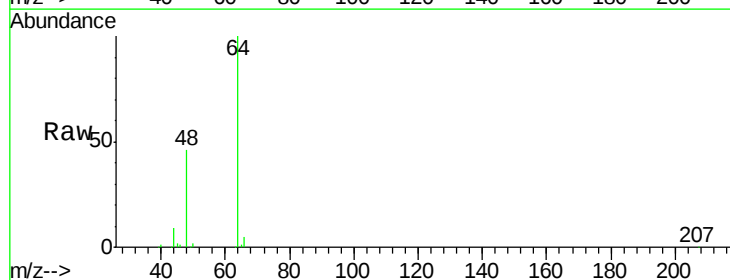
Acq: 15 Dec 2020 17:44

Tgt Ion: 50 Resp: 1161

Ion Ratio Lower Upper

50 100

52 0.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.28

800

600

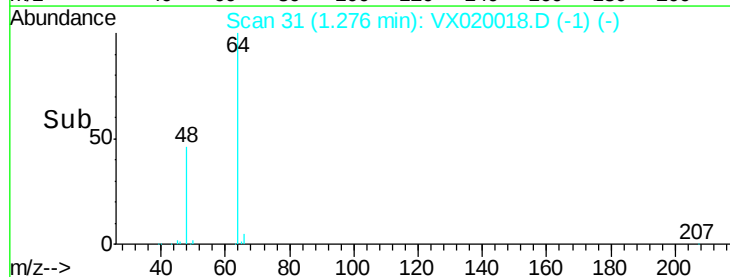
400

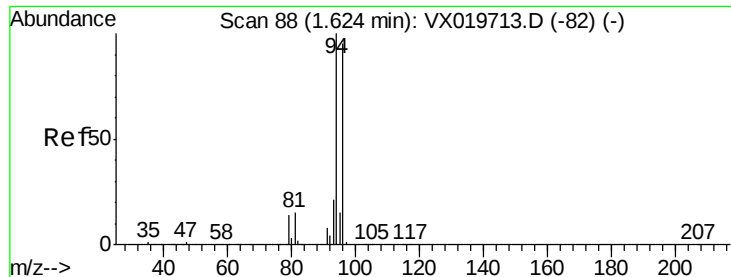
200

0

Time-->

1.24 1.26 1.28 1.30





#5

Bromomethane

Concen: 0.479 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

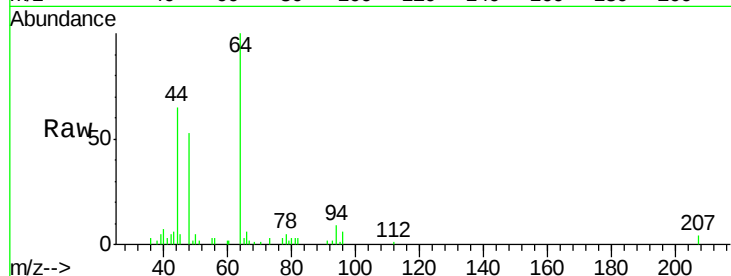
PB133610TB

Tgt Ion: 94 Resp: 570

Ion Ratio Lower Upper

94 100

96 70.6 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

200

100

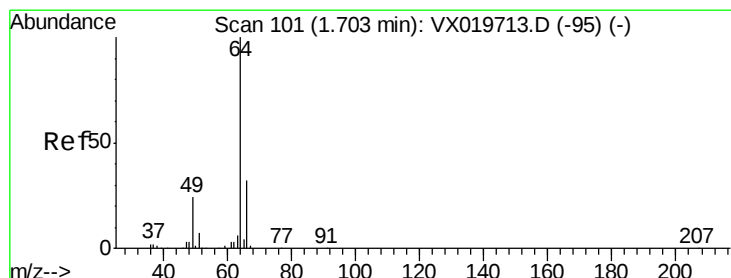
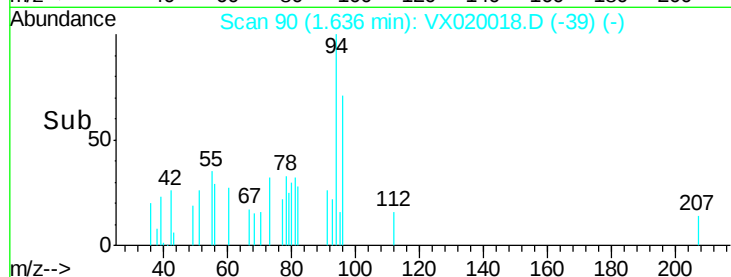
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 1.582 ug/l

RT: 1.61 min Scan# 85

Delta R.T. -0.10 min

Lab File: VX020018.D

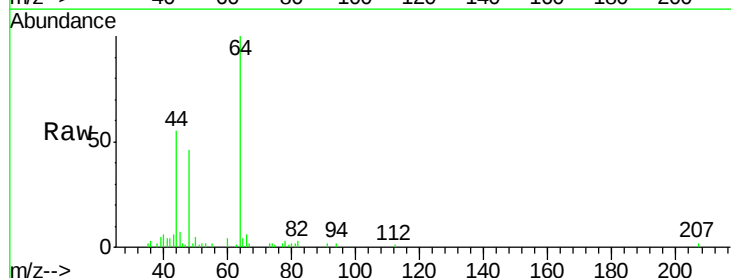
Acq: 15 Dec 2020 17:44

Tgt Ion: 64 Resp: 3408

Ion Ratio Lower Upper

64 100

66 6.4 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.61

5000

4000

3000

2000

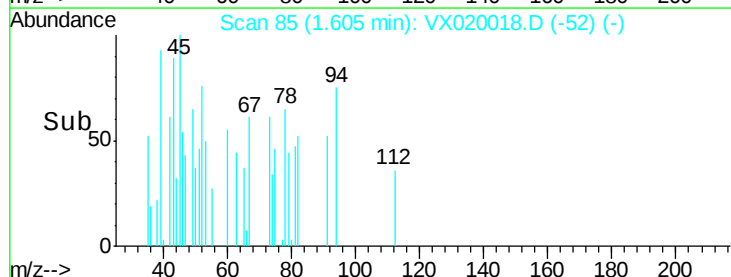
1000

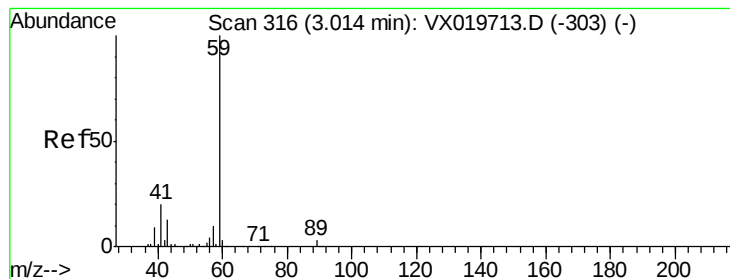
0

1.60

1.65

Time-->



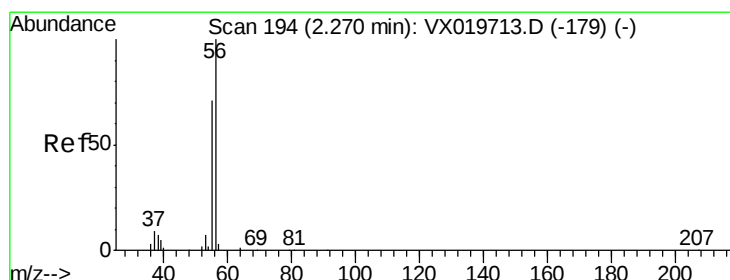
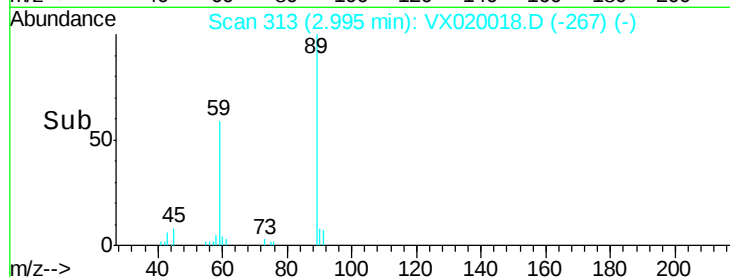
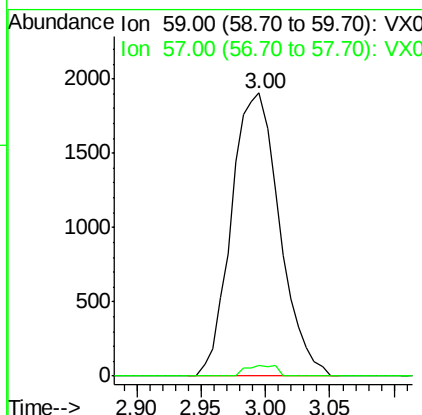
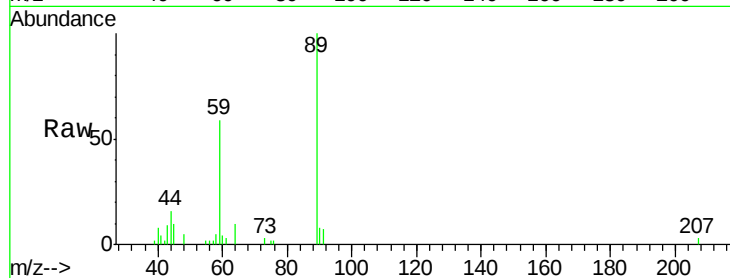


#11

Tert butyl alcohol
 Concen: 3.207 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX020018.D
 Acq: 15 Dec 2020 17:44

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610TB

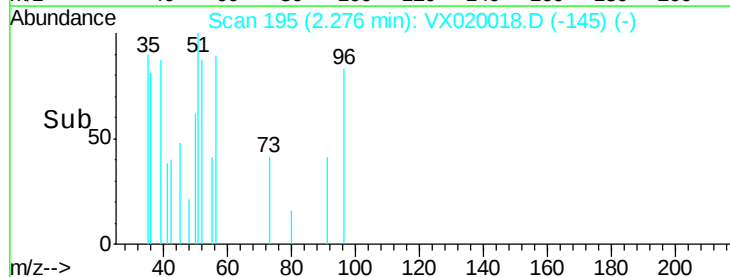
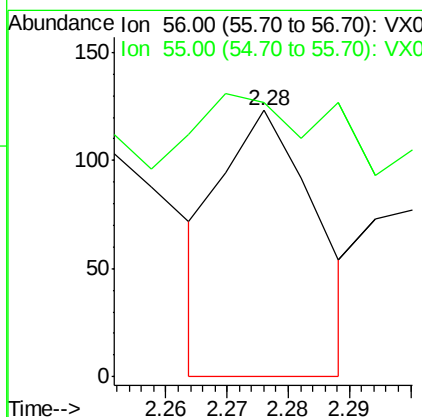
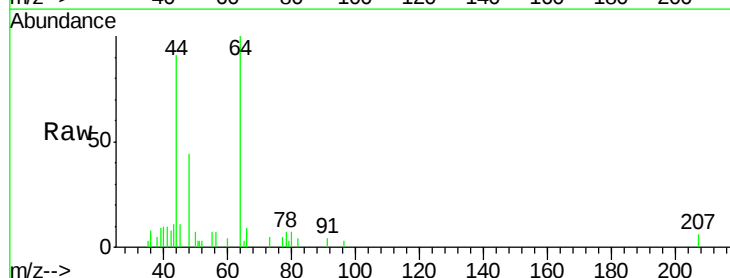
Tgt Ion: 59 Resp: 4940
 Ion Ratio Lower Upper
 59 100
 57 2.4 7.8 11.8#

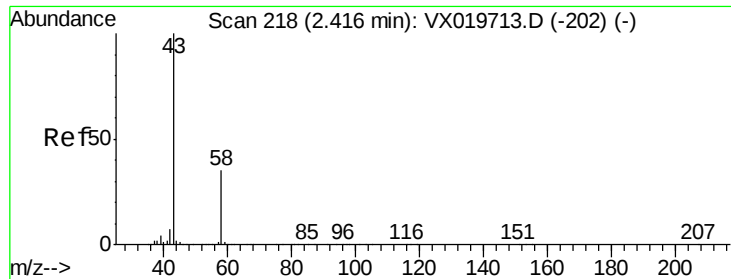


#13

Acrolein
 Concen: 0.290 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX020018.D
 Acq: 15 Dec 2020 17:44

Tgt Ion: 56 Resp: 133
 Ion Ratio Lower Upper
 56 100
 55 119.5 56.4 84.6#





#16

Acetone

Concen: 12.563 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

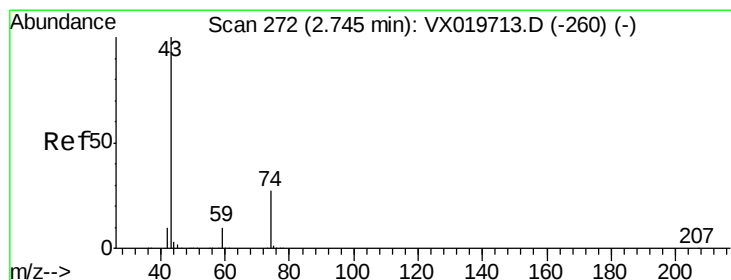
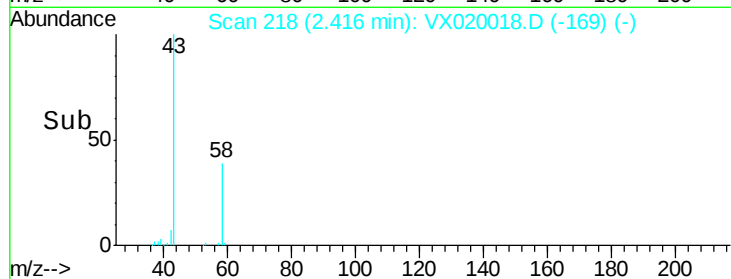
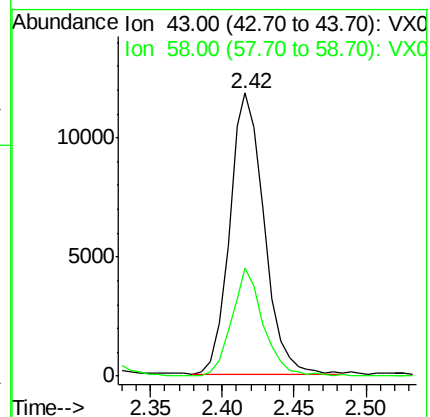
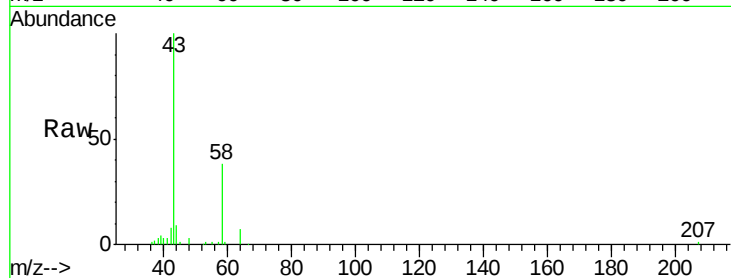
PB133610TB

Tgt Ion: 43 Resp: 19608

Ion Ratio Lower Upper

43 100

58 38.4 27.8 41.8



#18

Methyl Acetate

Concen: 0.407 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX020018.D

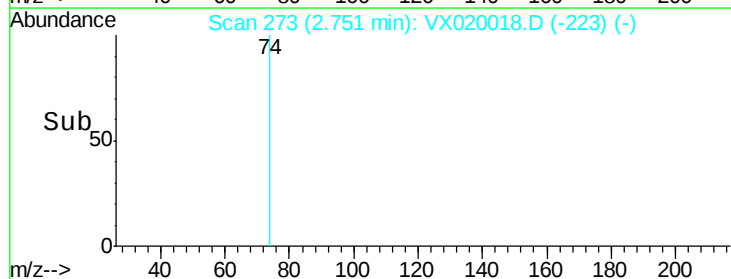
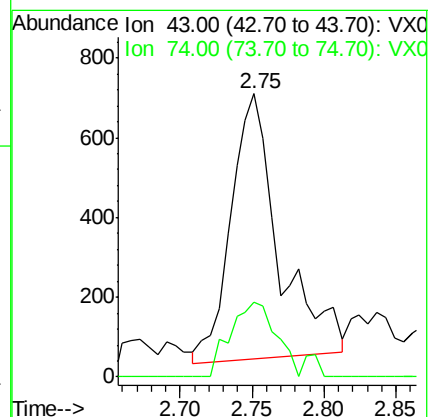
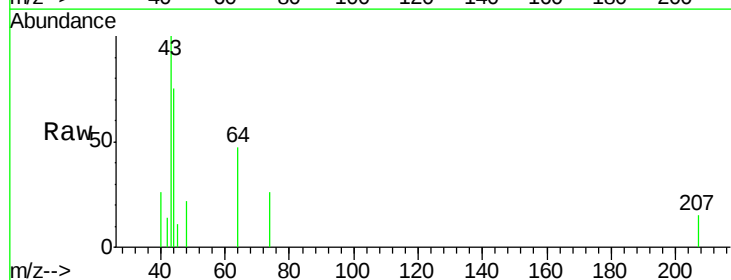
Acq: 15 Dec 2020 17:44

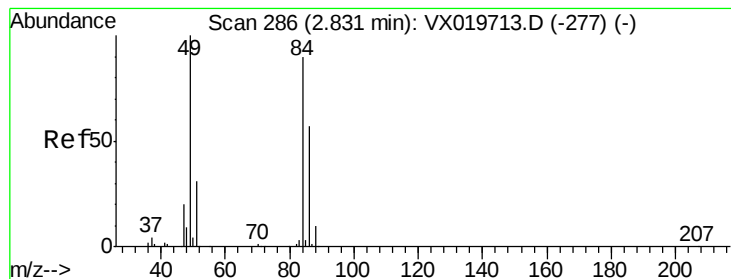
Tgt Ion: 43 Resp: 1555

Ion Ratio Lower Upper

43 100

74 26.7 21.9 32.9





#20

Methylene Chloride

Concen: 4.424 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampled :

PB133610TB

Tgt Ion: 84 Resp: 20381

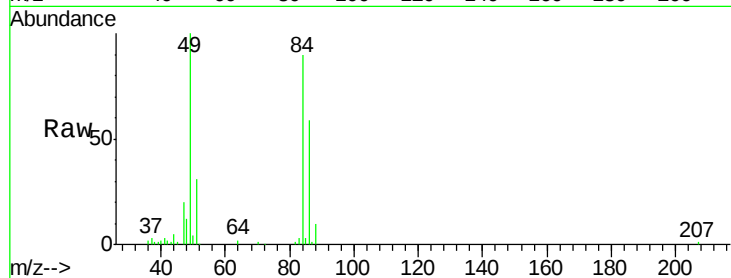
Ion Ratio Lower Upper

84 100

49 111.2 88.6 132.8

51 34.7 27.0 40.6

86 66.1 50.3 75.5

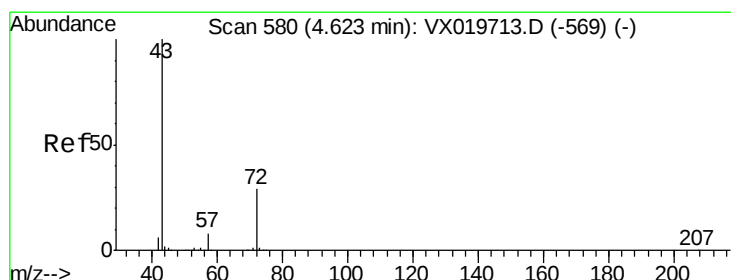
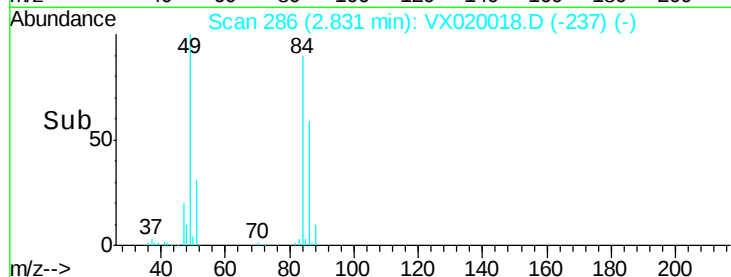
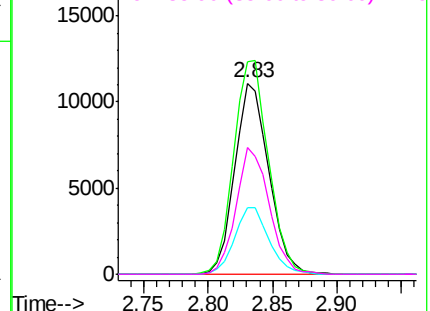


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.497 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX020018.D

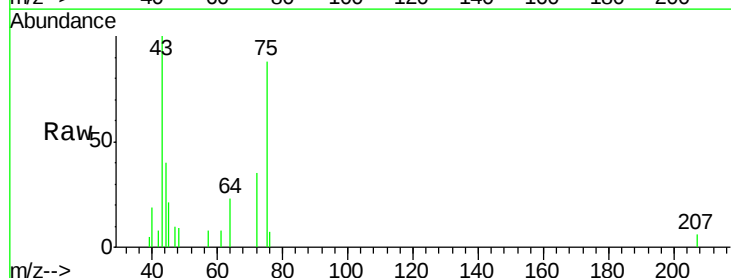
Acq: 15 Dec 2020 17:44

Tgt Ion: 43 Resp: 3589

Ion Ratio Lower Upper

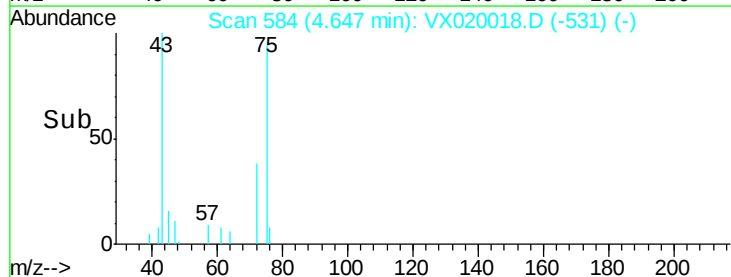
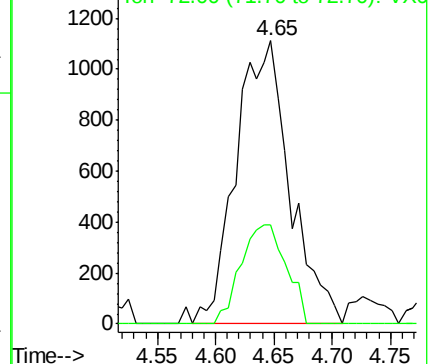
43 100

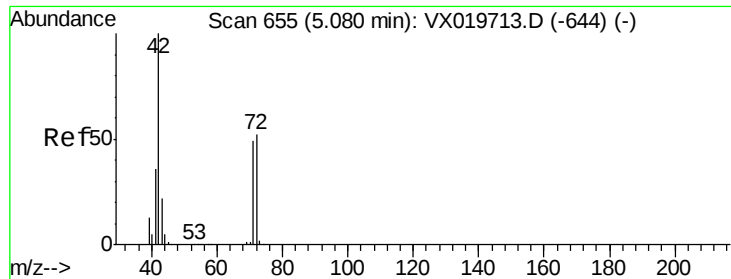
72 35.1 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

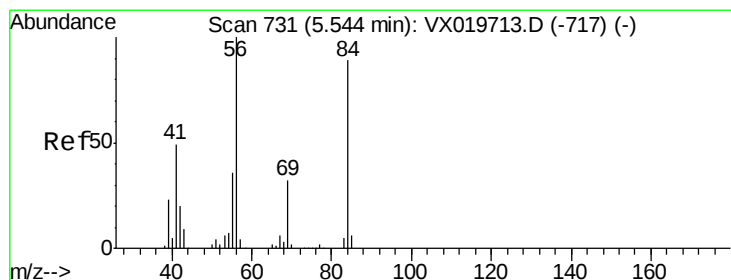
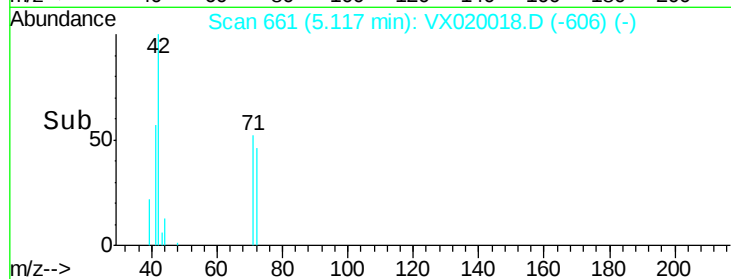
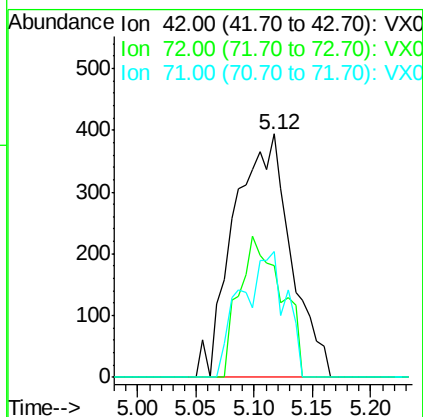
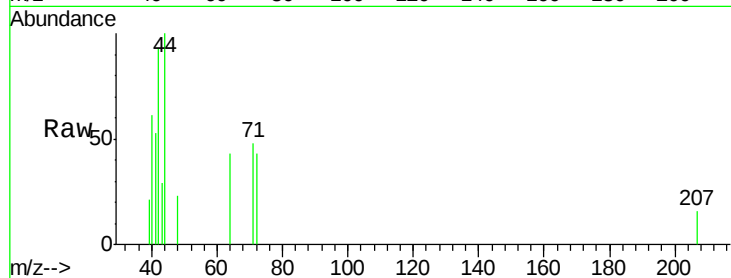




#29
Tetrahydrofuran
Concen: 0.862 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.04 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

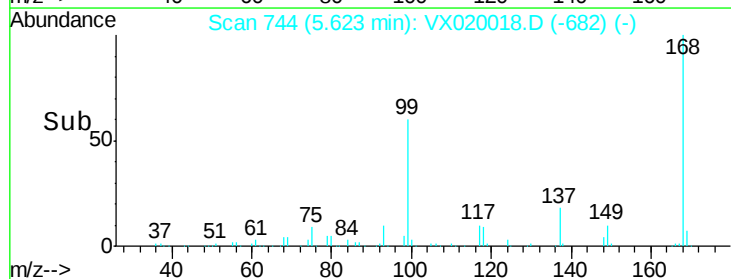
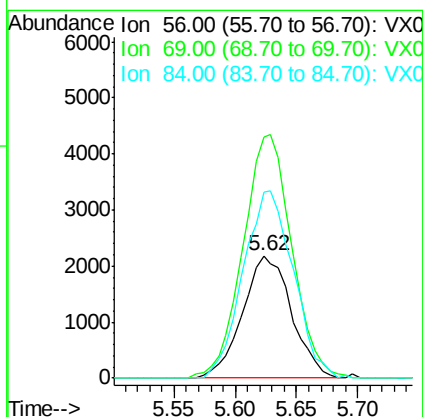
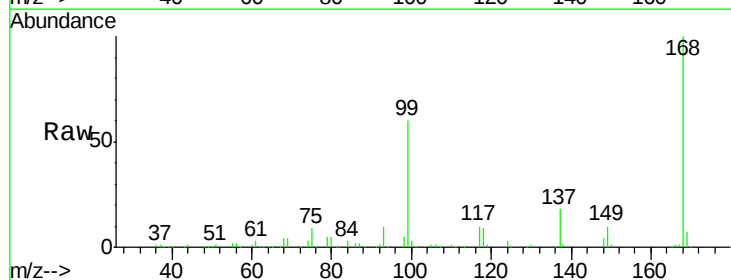
Instrument :
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PB133610TB

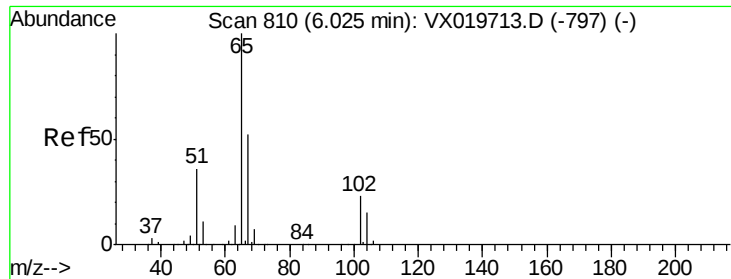
Tgt Ion: 42 Resp: 1332
Ion Ratio Lower Upper
42 100
72 43.4 41.7 62.5
71 40.8 38.4 57.6



#31
Cyclohexane
Concen: 1.177 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

Tgt Ion: 56 Resp: 6079
Ion Ratio Lower Upper
56 100
69 196.6 25.3 37.9#
84 152.4 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 48.141 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

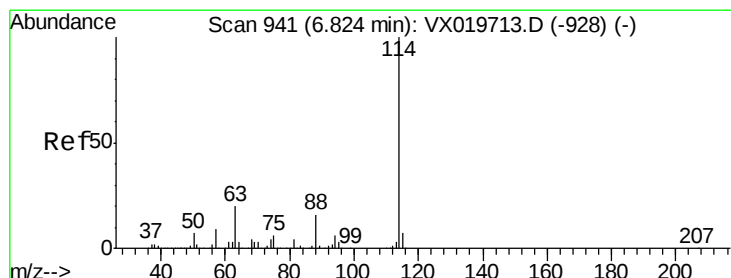
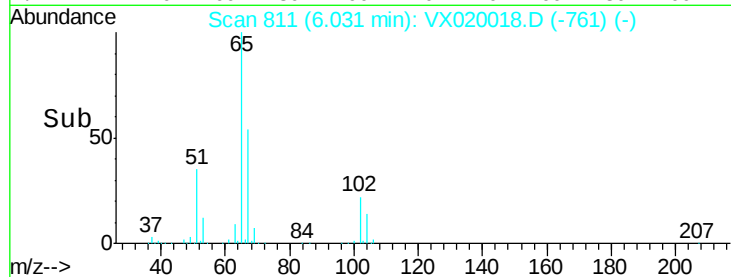
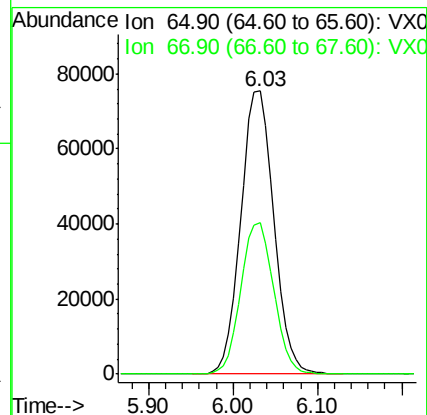
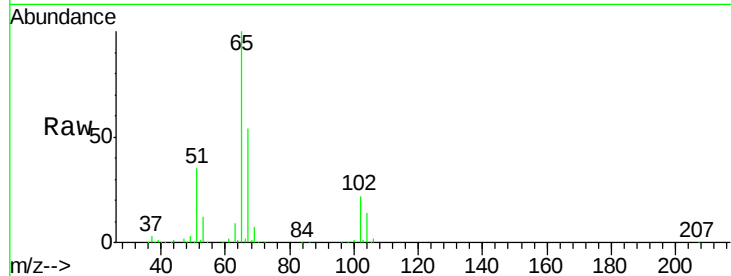
PB133610TB

Tgt Ion: 65 Resp: 199892

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

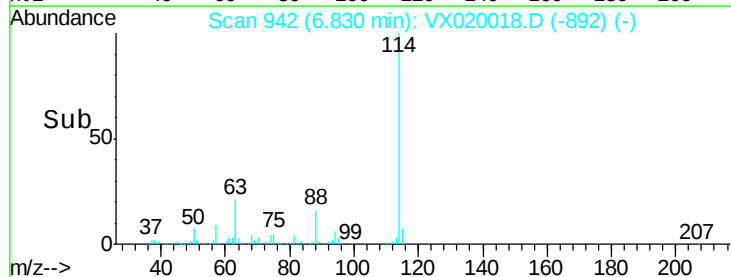
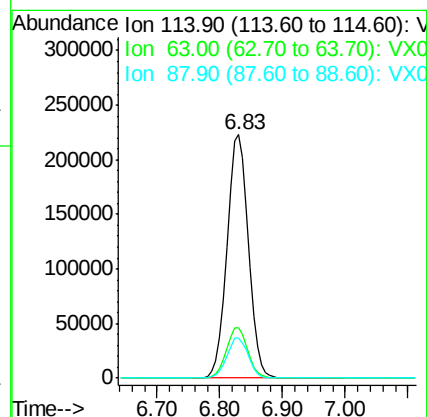
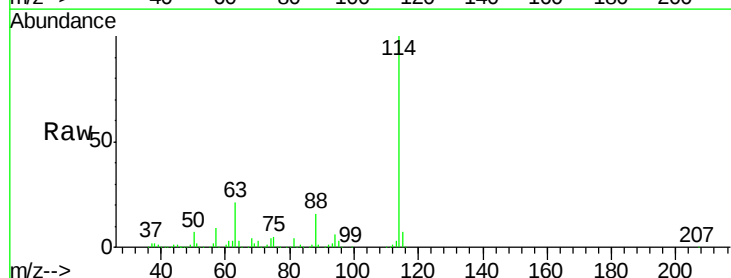
Tgt Ion: 114 Resp: 526586

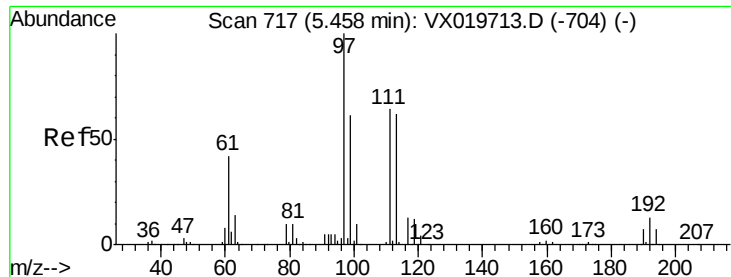
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.224 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

PB133610TB

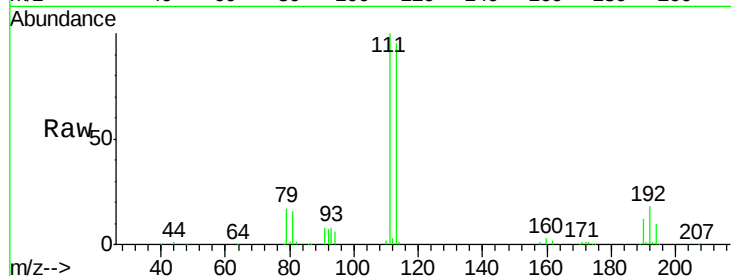
Tgt Ion:113 Resp: 160716

Ion Ratio Lower Upper

113 100

111 104.6 81.9 122.9

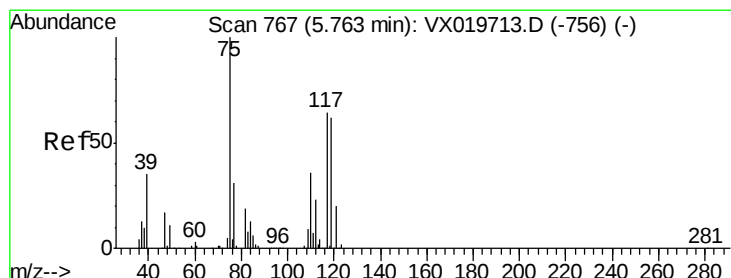
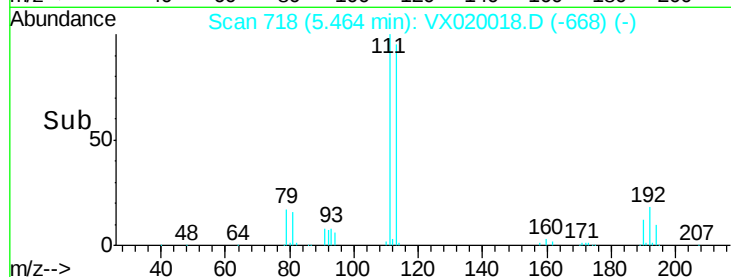
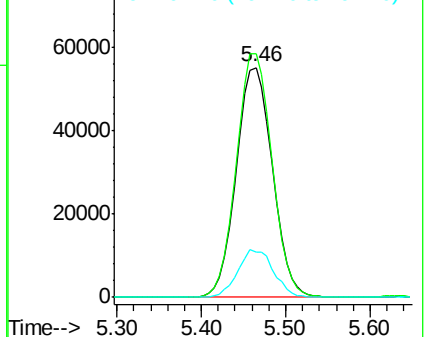
192 20.5 16.7 25.1



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: 5.119 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

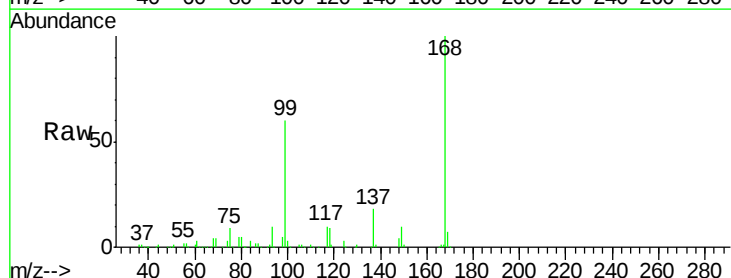
Tgt Ion: 75 Resp: 24358

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

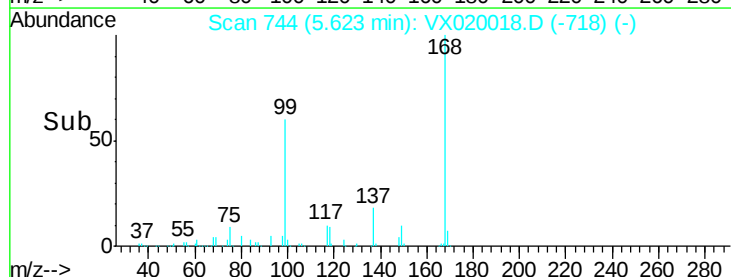
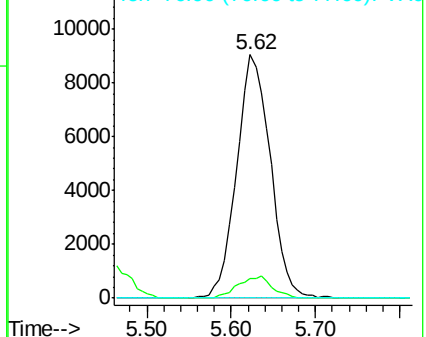
77 0.0 25.3 37.9#

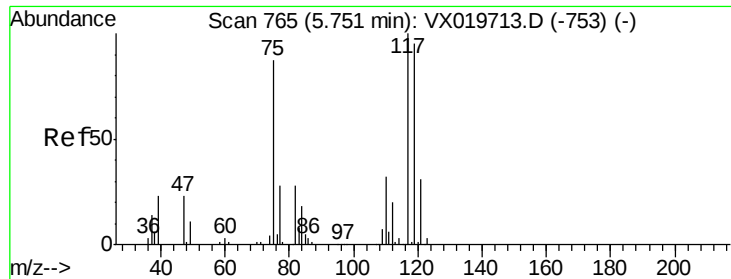


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.571 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

PB133610TB

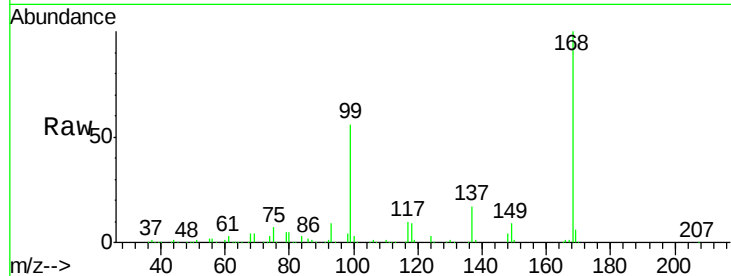
Tgt Ion:117 Resp: 30617

Ion Ratio Lower Upper

117 100

119 5.7 76.2 114.2#

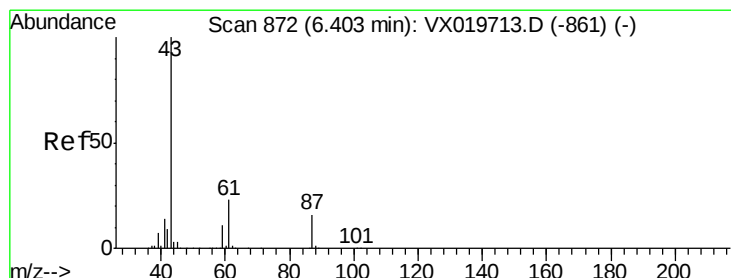
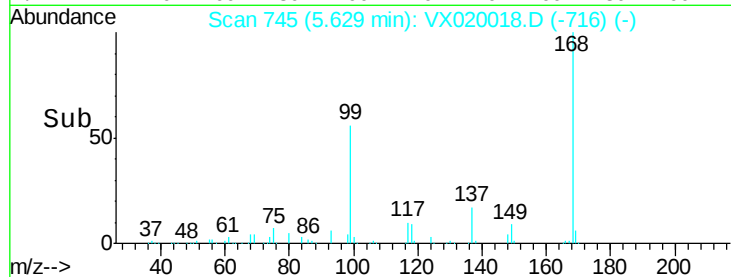
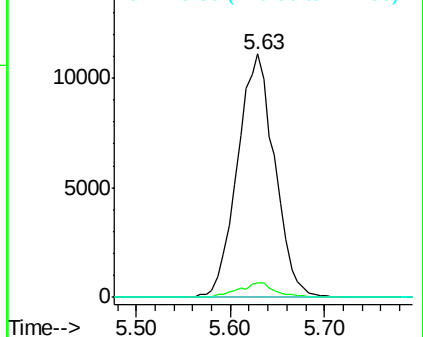
121 0.0 24.8 37.2#



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: 3.324 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

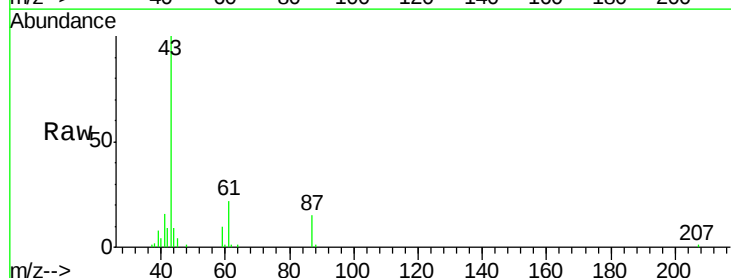
Tgt Ion: 43 Resp: 25961

Ion Ratio Lower Upper

43 100

61 22.6 18.2 27.4

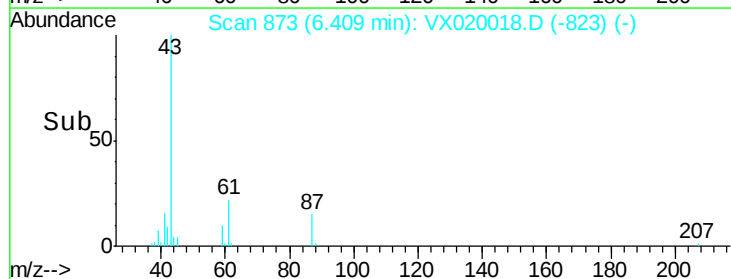
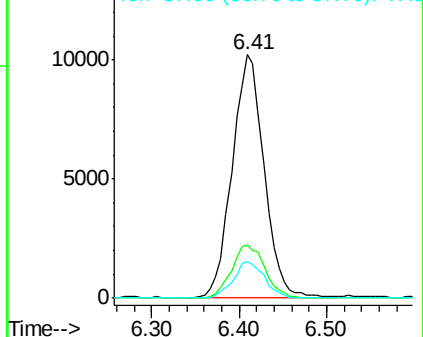
87 14.4 12.5 18.7

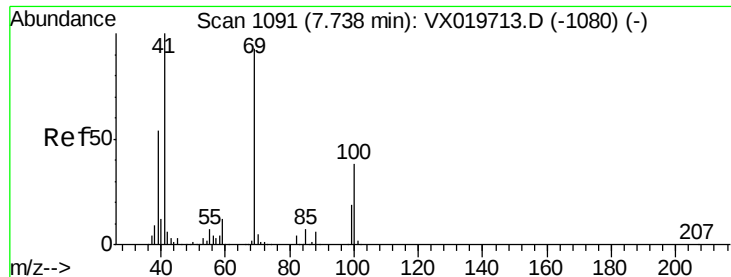


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

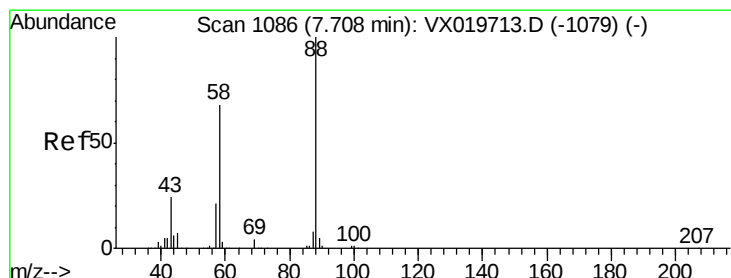
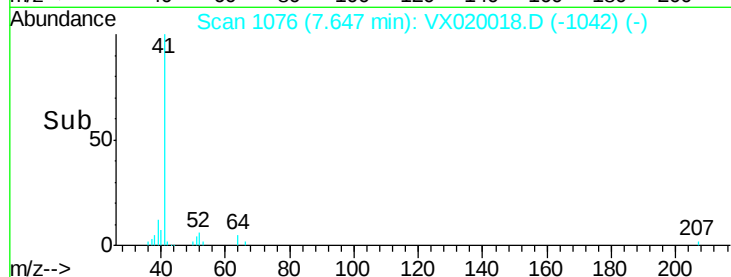
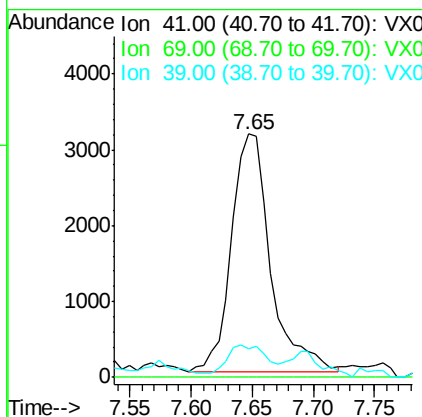
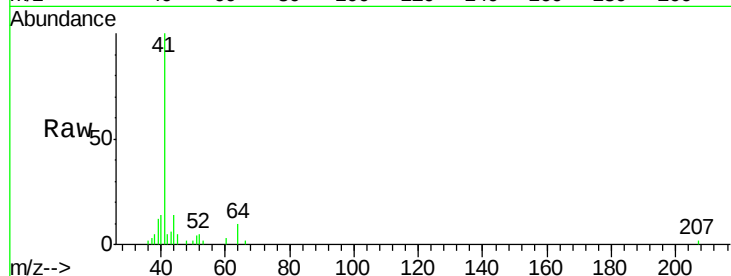




#48
Methyl methacrylate
Concen: 1.801 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

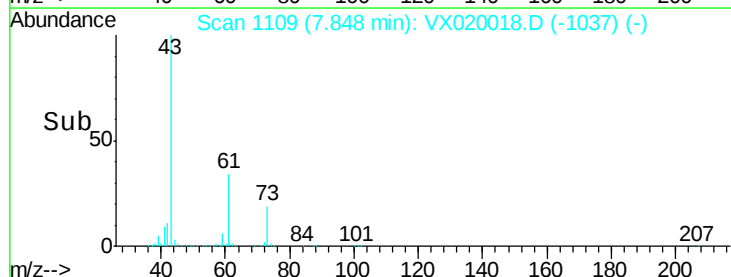
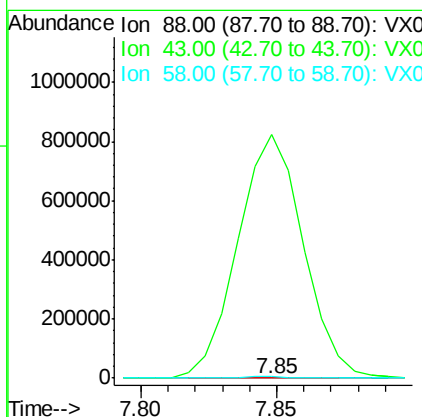
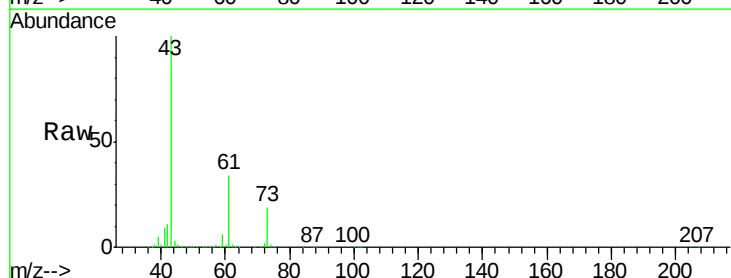
Instrument :
MSVOA_X
ClientSampleId :
PB133610TB

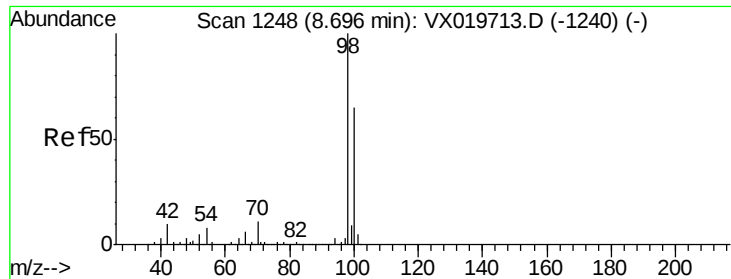
Tgt Ion: 41 Resp: 6917
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.450 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.14 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

Tgt Ion: 88 Resp: 228
Ion Ratio Lower Upper
88 100
43 607199.6 23.2 34.8#
58 3177.2 55.0 82.4#

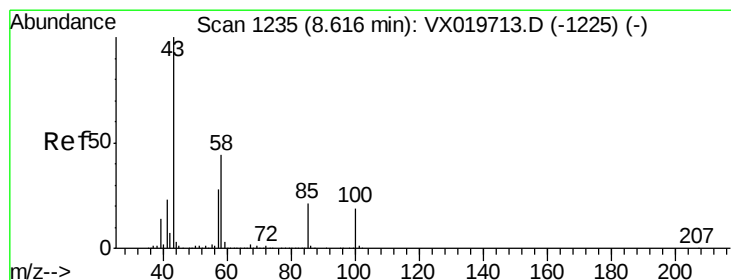
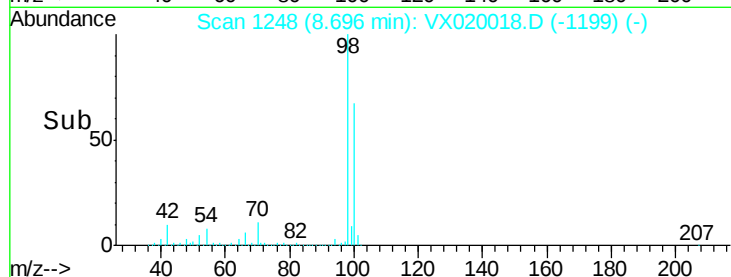
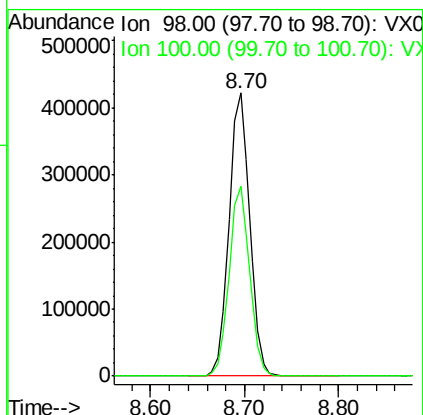
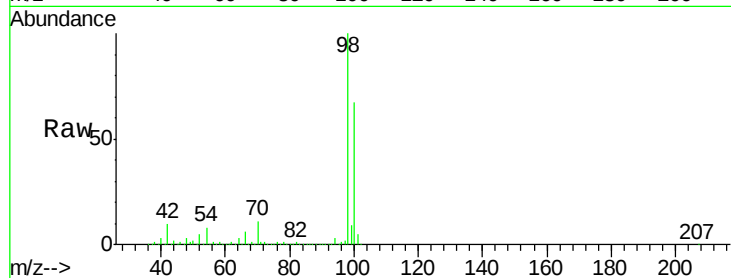




#50
Toluene-d8
Concen: 49.519 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

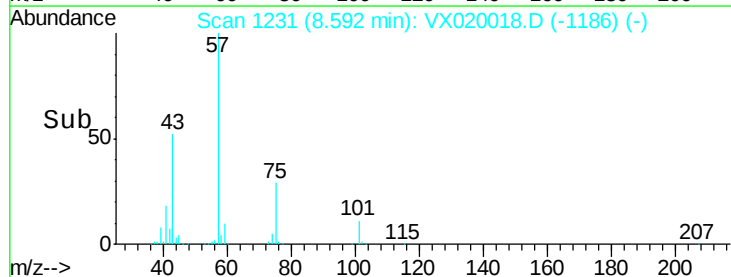
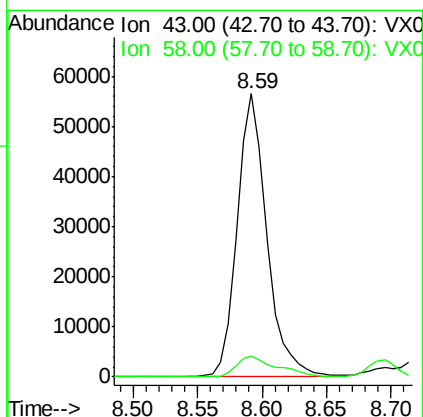
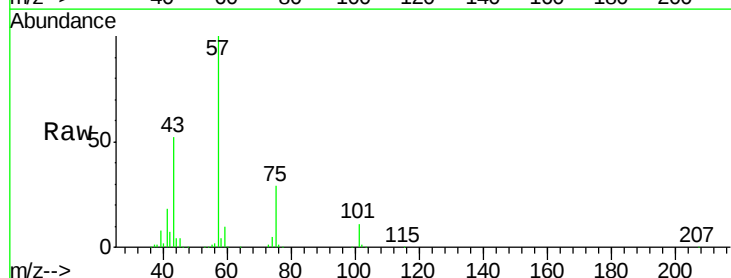
Instrument :
MSVOA_X
ClientSampleId :
PB133610TB

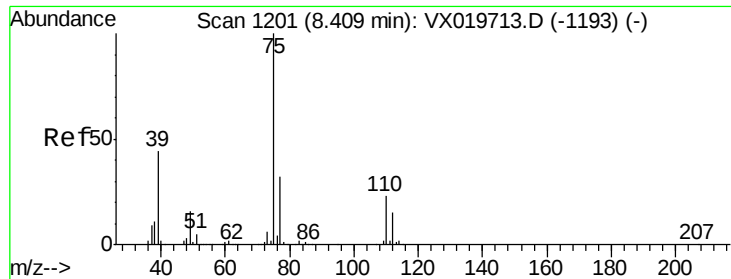
Tgt Ion: 98 Resp: 643386
Ion Ratio Lower Upper
98 100
100 66.7 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 18.730 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

Tgt Ion: 43 Resp: 89319
Ion Ratio Lower Upper
43 100
58 10.2 35.4 53.0#

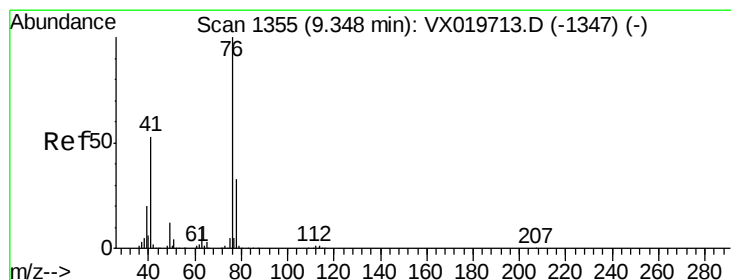
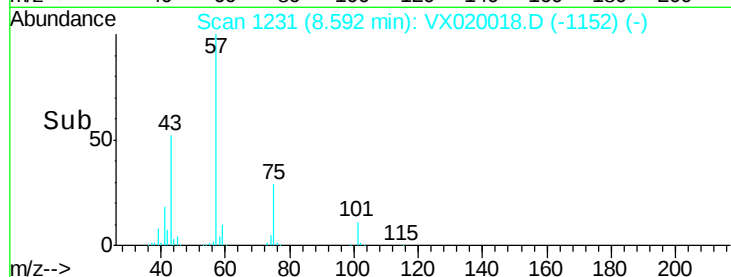
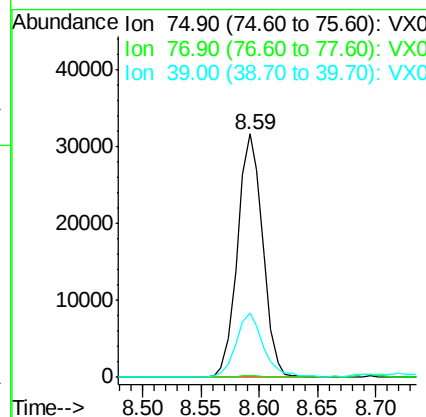
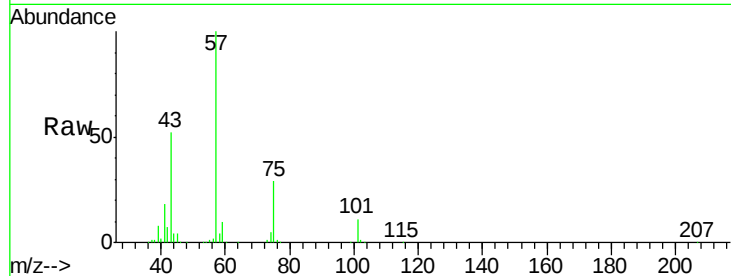




#54
 cis-1,3-Dichloropropene
 Concen: 8.162 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX020018.D
 Acq: 15 Dec 2020 17:44

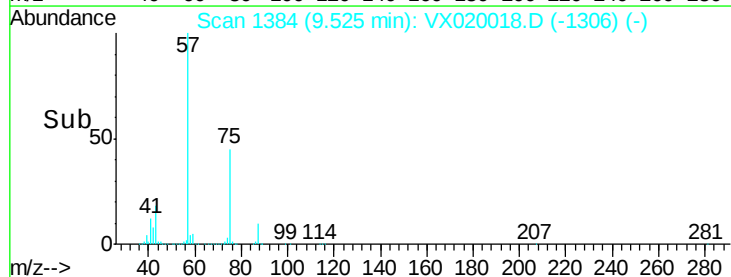
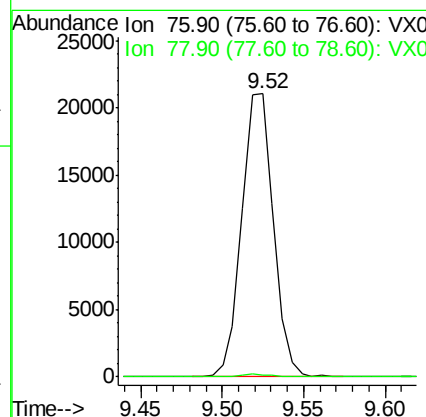
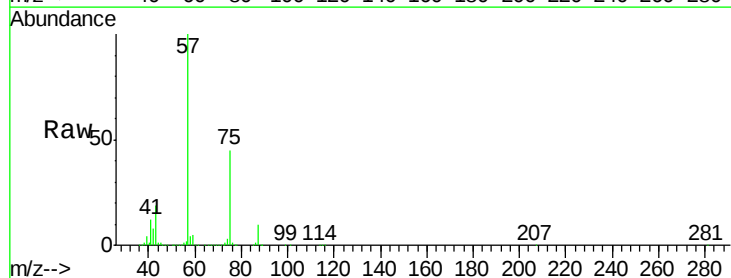
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133610TB

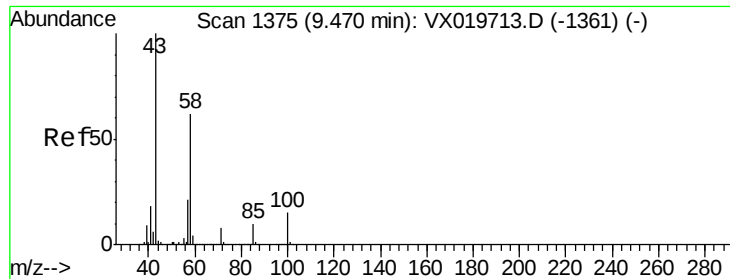
Tgt Ion: 75 Resp: 47900
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 26.4 35.1 52.7#



#57
 1,3-Dichloropropane
 Concen: 4.568 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX020018.D
 Acq: 15 Dec 2020 17:44

Tgt Ion: 76 Resp: 28576
 Ion Ratio Lower Upper
 76 100
 78 0.8 26.2 39.2#

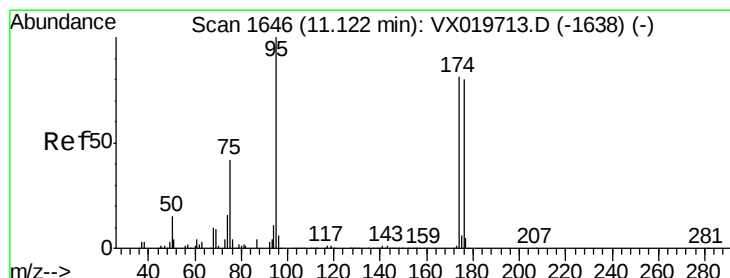
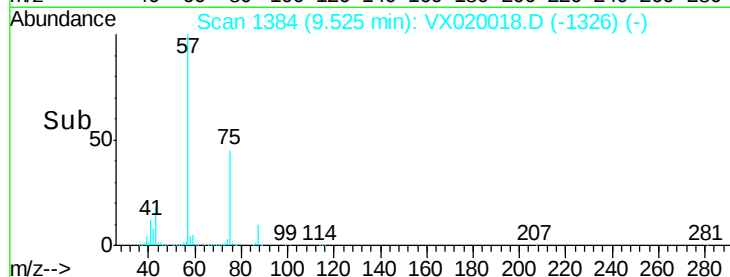
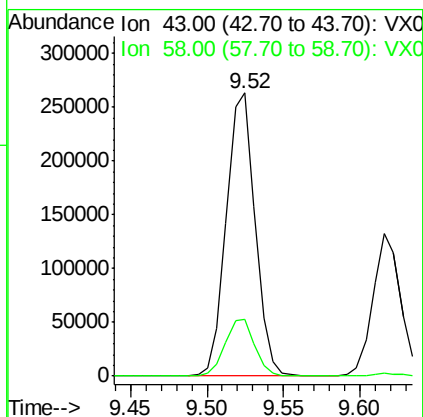
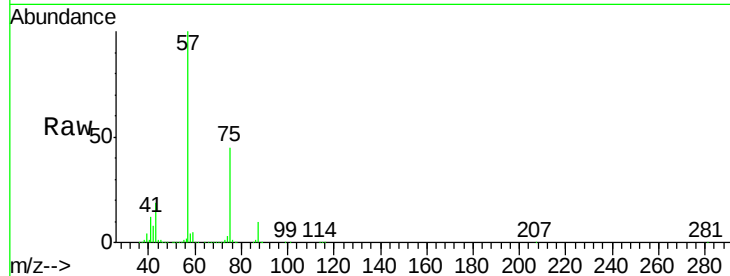




#59
2-Hexanone
Concen: 92.805 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

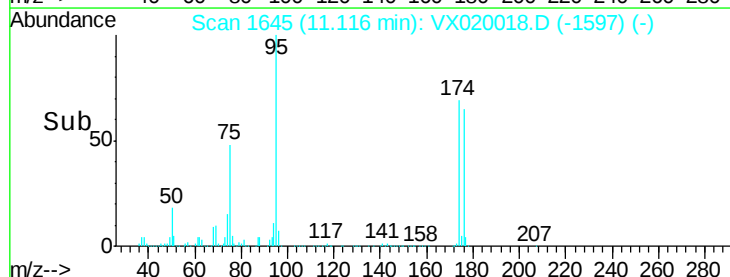
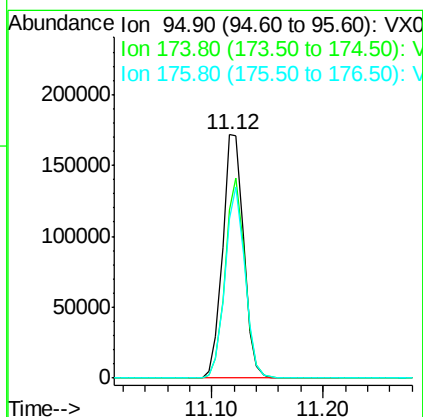
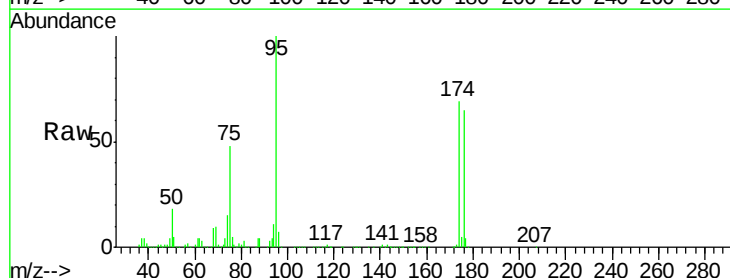
Instrument :
MSVOA_X
ClientSampleId :
PB133610TB

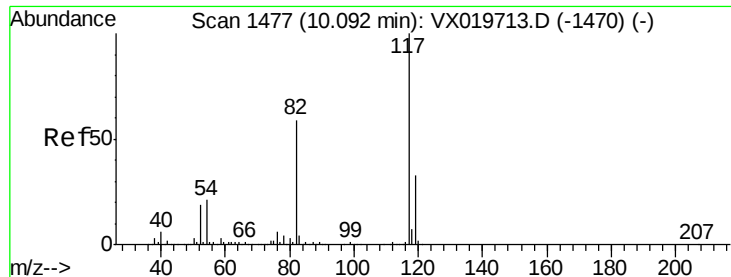
Tgt Ion: 43 Resp: 343055
Ion Ratio Lower Upper
43 100
58 20.5 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 45.402 ug/l
RT: 11.12 min Scan# 1645
Delta R.T. -0.01 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

Tgt Ion: 95 Resp: 224522
Ion Ratio Lower Upper
95 100
174 76.9 0.0 154.6
176 73.9 0.0 155.8

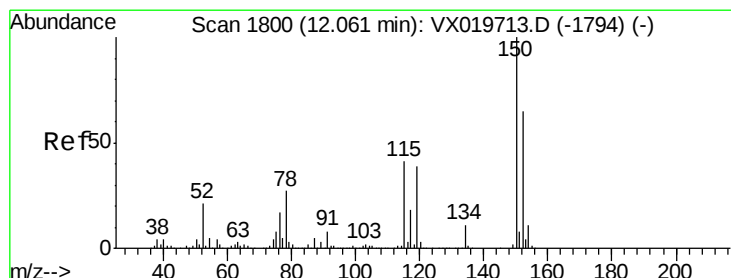
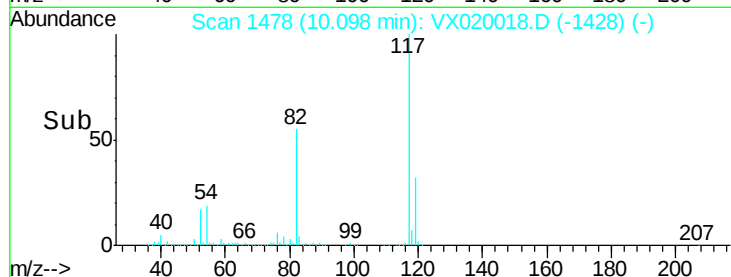
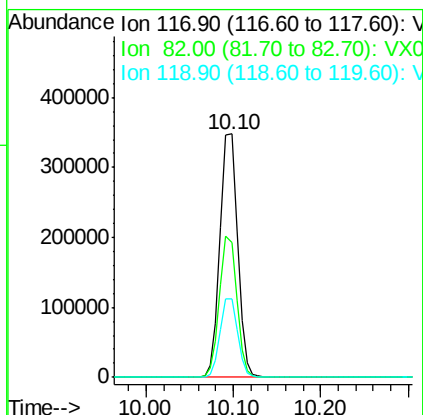
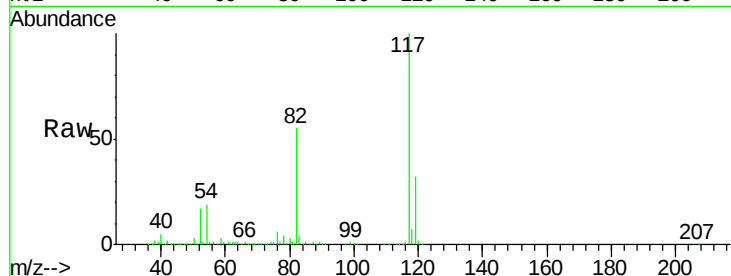




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

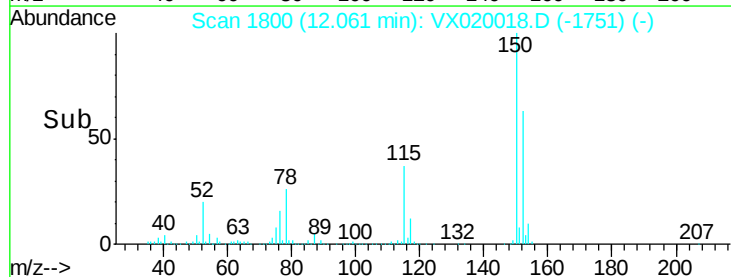
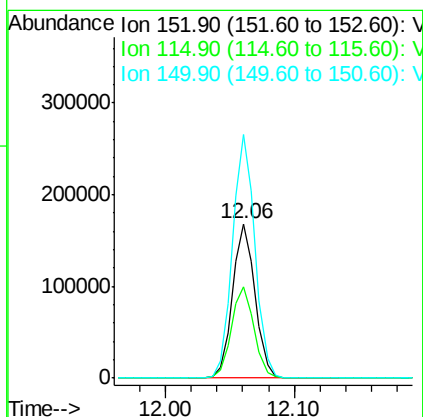
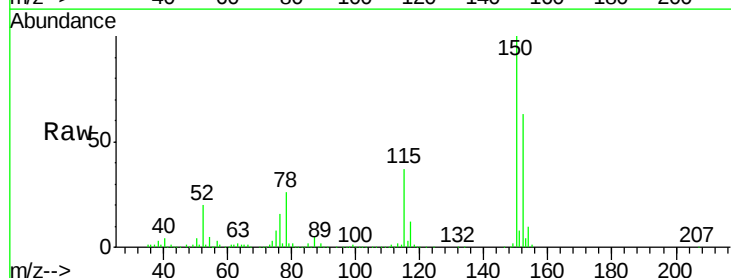
Instrument :
MSVOA_X
ClientSampleId :
PB133610TB

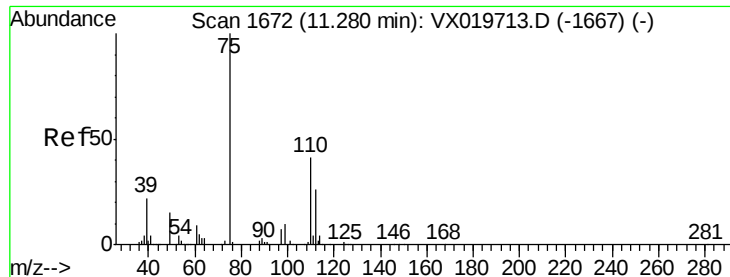
Tgt Ion:117 Resp: 484602
Ion Ratio Lower Upper
117 100
82 55.3 47.4 71.2
119 32.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX020018.D
Acq: 15 Dec 2020 17:44

Tgt Ion:152 Resp: 204893
Ion Ratio Lower Upper
152 100
115 59.7 41.1 123.3
150 158.1 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.536 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

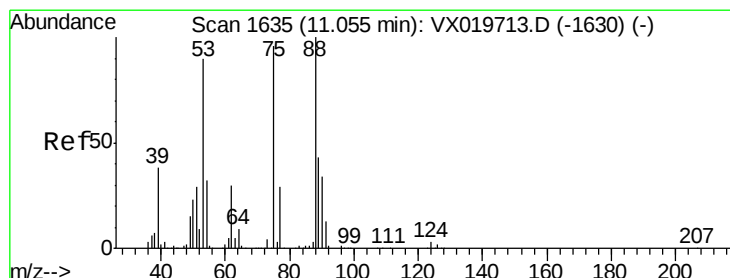
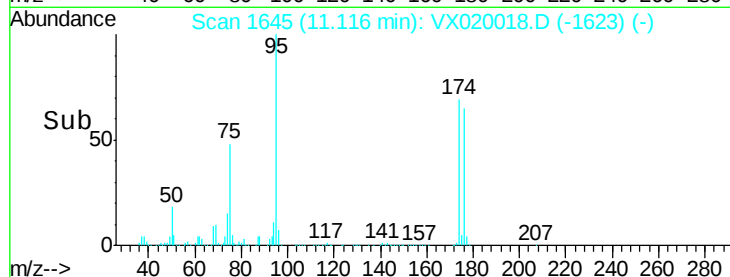
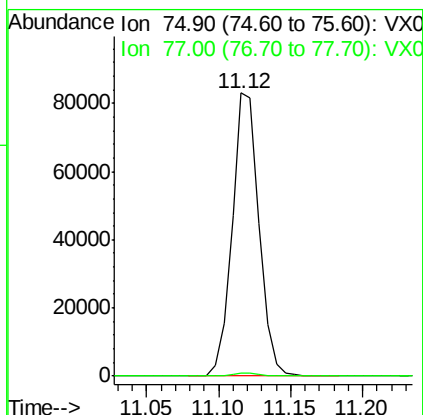
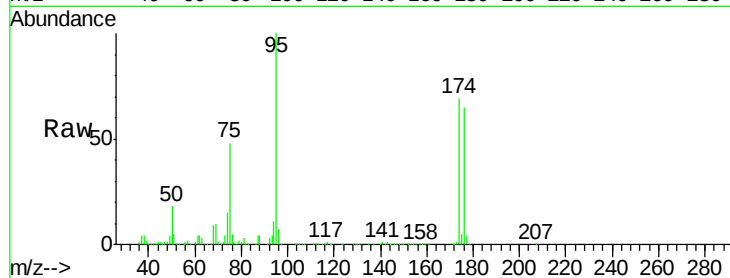
PB133610TB

Tgt Ion: 75 Resp: 108159

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.039 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020018.D

Acq: 15 Dec 2020 17:44

Tgt Ion: 75 Resp: 108159

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

