

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019960.D
 Acq On : 13 Dec 2020 02:52
 Operator : JC/MD
 Sample : PB133565ZHE#12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#12

Quant Time: Dec 14 08:23:43 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	309687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	510771	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	466389	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	188792	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	197161	48.44	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.88%		
35) Dibromofluoromethane	5.46	113	159890	48.44	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.88%		
50) Toluene-d8	8.70	98	626209	49.69	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.38%		
62) 4-Bromofluorobenzene	11.12	95	213260	44.46	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	88.92%		

Target Compounds

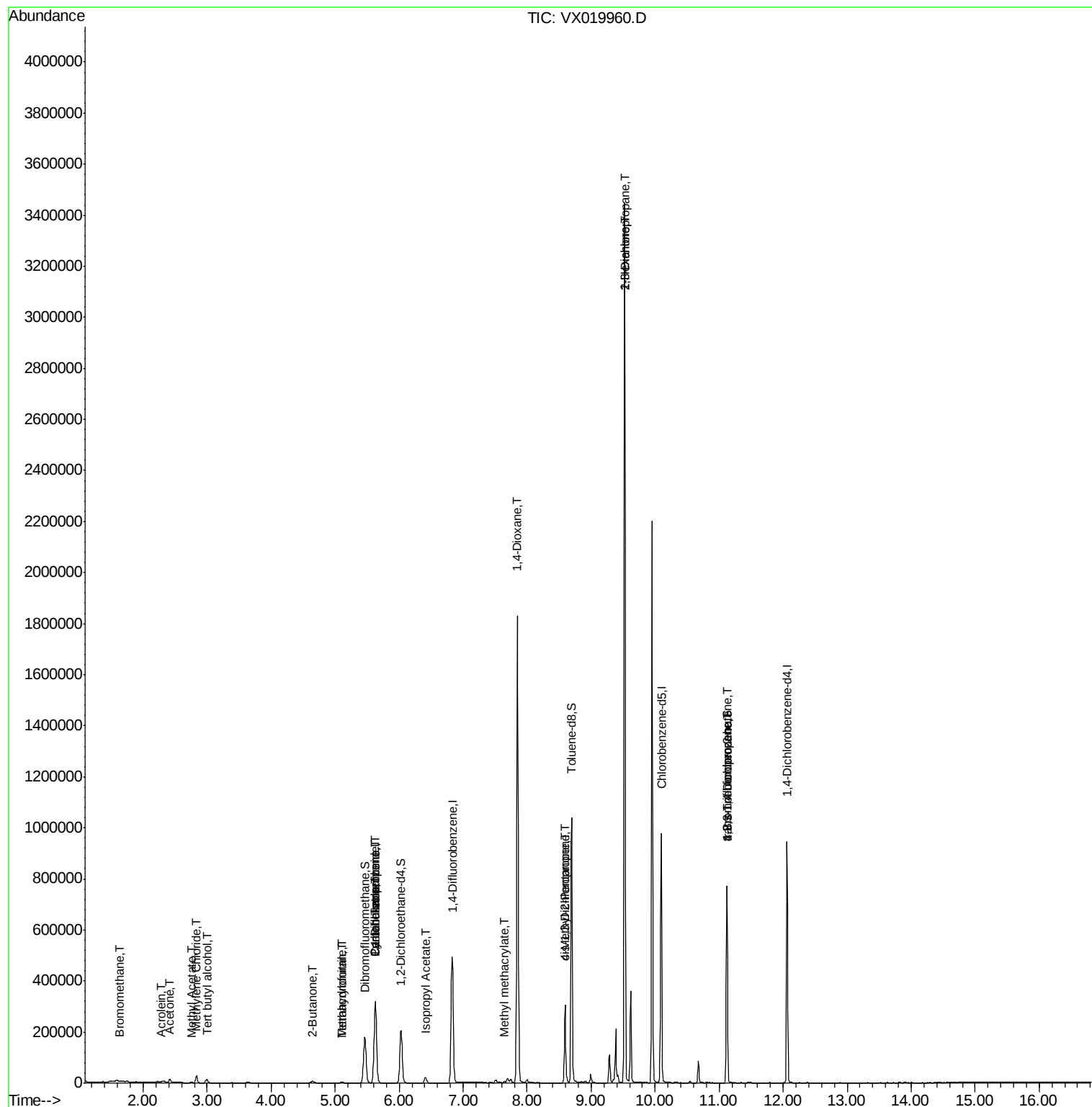
					Qvalue
5) Bromomethane	1.64	94	671	0.575 ug/l	99
11) Tert butyl alcohol	2.99	59	8413	7.520 ug/l #	76
13) Acrolein	2.28	56	113	0.252 ug/l #	18
16) Acetone	2.42	43	13568	8.869 ug/l	100
18) Methyl Acetate	2.75	43	3114	0.832 ug/l #	86
20) Methylene Chloride	2.84	84	12991	2.365 ug/l	98
25) 2-Butanone	4.64	43	3695	1.572 ug/l	97
29) Tetrahydrofuran	5.10	42	1935	1.278 ug/l	93
31) Cyclohexane	5.63	56	5873	1.160 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23525	5.097 ug/l #	49
38) Carbon Tetrachloride	5.63	117	30048	6.648 ug/l #	17
41) Methacrylonitrile	5.09	41	1426	0.557 ug/l #	36
43) Isopropyl Acetate	6.41	43	28239	3.727 ug/l	99
48) Methyl methacrylate	7.65	41	6842	1.836 ug/l #	10
49) 1,4-Dioxane	7.85	88	304	3.368 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	95509	20.648 ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	50163	8.812 ug/l #	60
57) 1,3-Dichloropropane	9.52	76	30833	5.081 ug/l #	43
59) 2-Hexanone	9.52	43	374436	104.431 ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	103351	24.408 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	103351	70.560 ug/l #	12

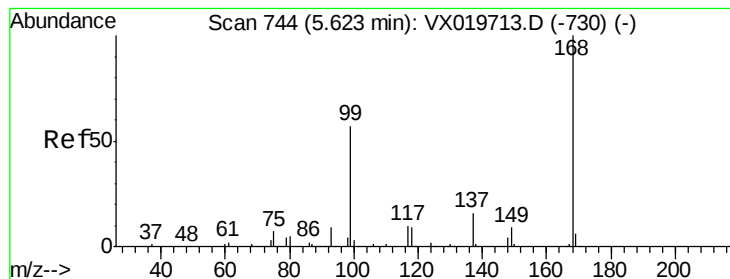
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

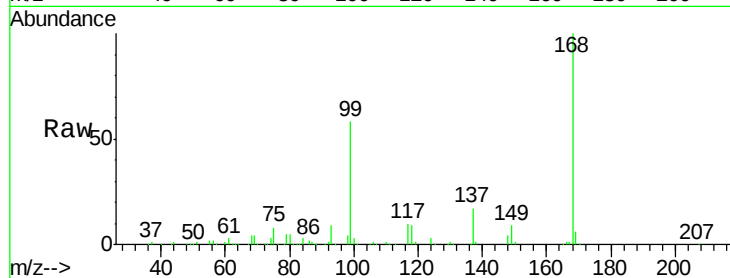
PB133565ZHE#12

Tgt Ion:168 Resp: 309687

Ion Ratio Lower Upper

168 100

99 57.6 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

120000

100000

80000

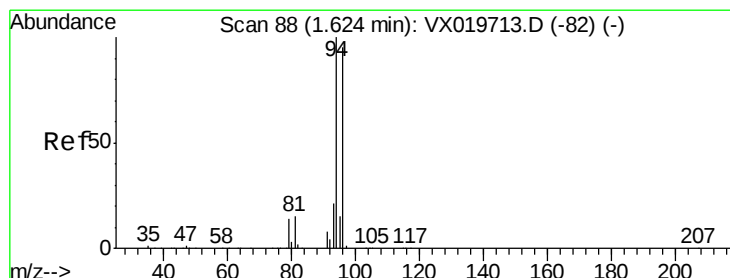
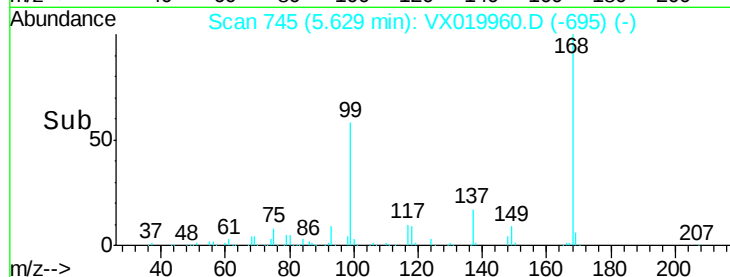
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.575 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019960.D

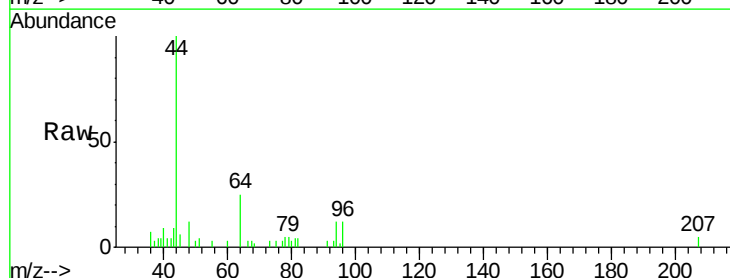
Acq: 13 Dec 2020 02:52

Tgt Ion: 94 Resp: 671

Ion Ratio Lower Upper

94 100

96 96.9 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

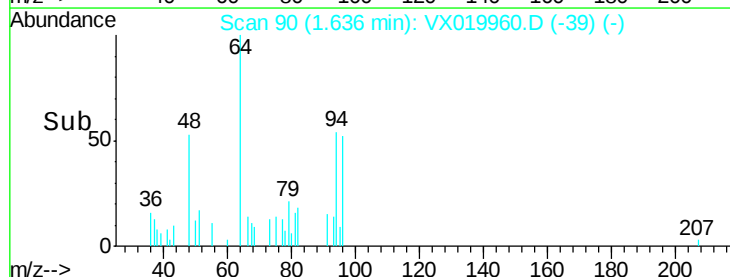
300

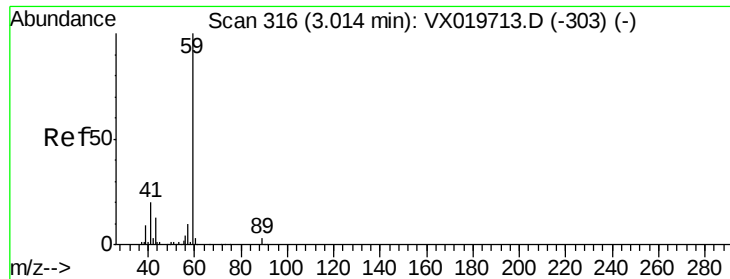
200

100

0

Time-->

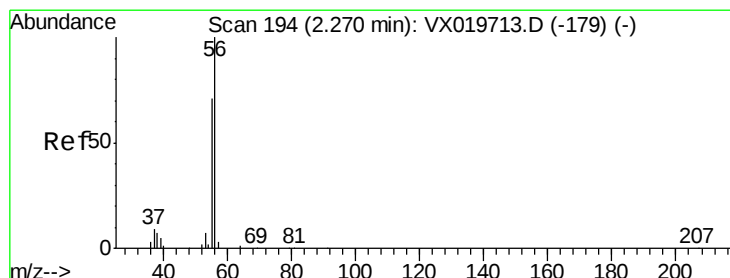
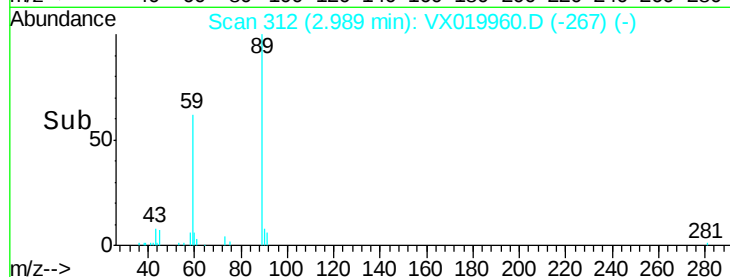
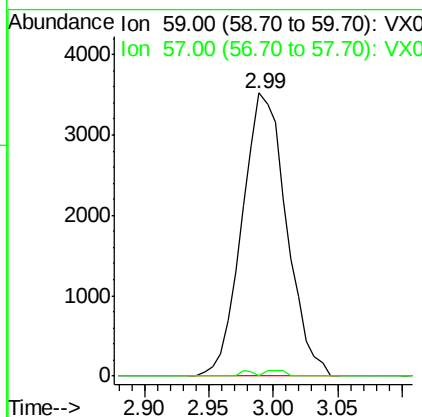
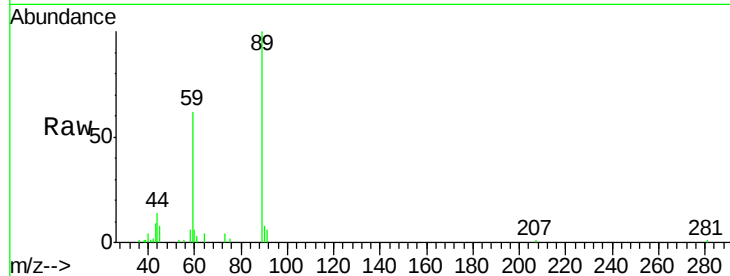




#11
Tert butyl alcohol
Concen: 7.520 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX019960.D
Acq: 13 Dec 2020 02:52

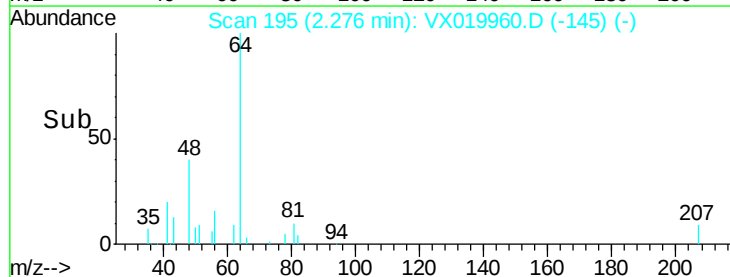
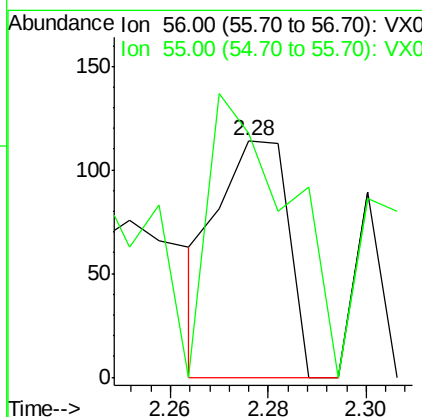
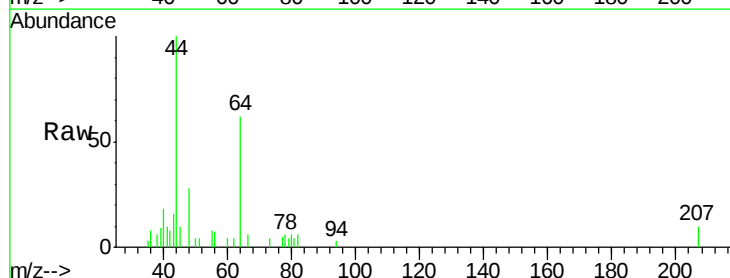
Instrument :
MSVOA_X
ClientSampleId :
PB133565ZHE#12

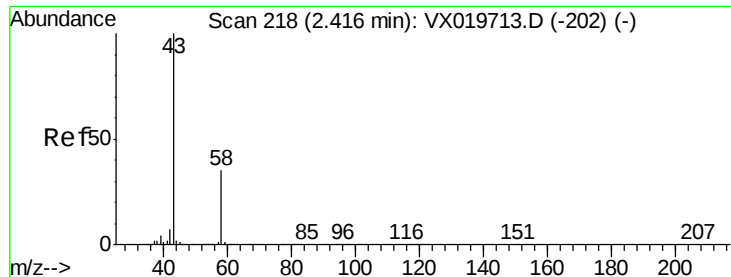
Tgt Ion: 59 Resp: 8413
Ion Ratio Lower Upper
59 100
57 0.9 7.8 11.8#



#13
Acrolein
Concen: 0.252 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX019960.D
Acq: 13 Dec 2020 02:52

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 138.1 56.4 84.6#





#16

Acetone

Concen: 8.869 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

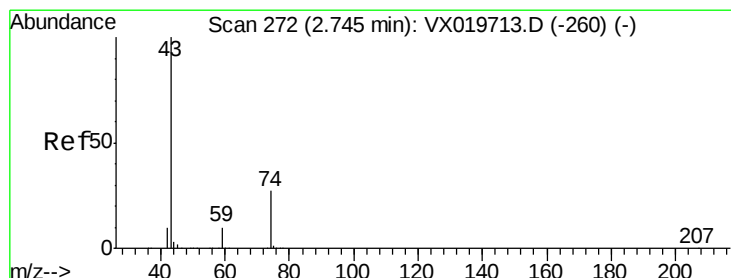
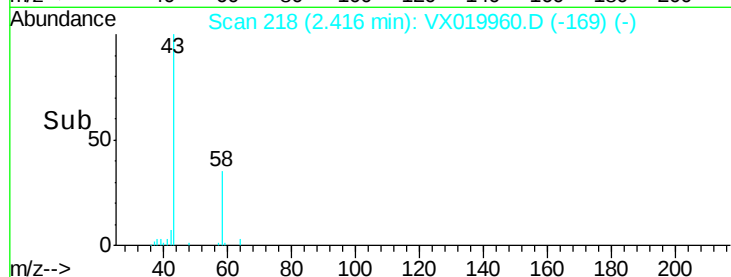
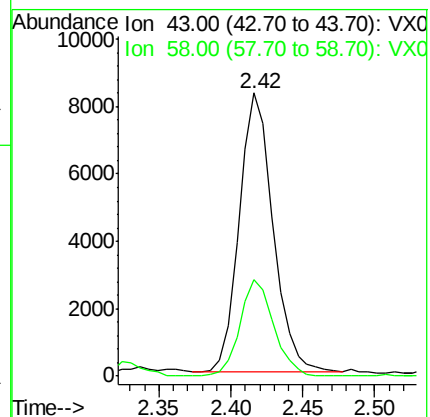
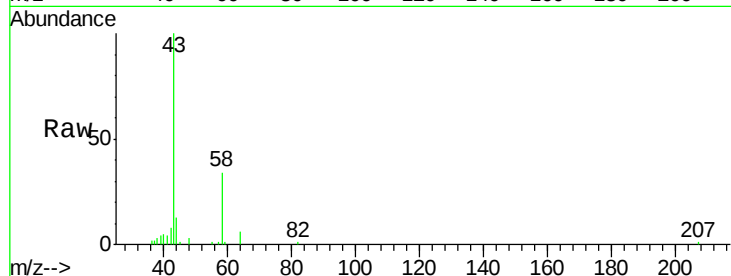
PB133565ZHE#12

Tgt Ion: 43 Resp: 13568

Ion Ratio Lower Upper

43 100

58 34.5 27.8 41.8



#18

Methyl Acetate

Concen: 0.832 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019960.D

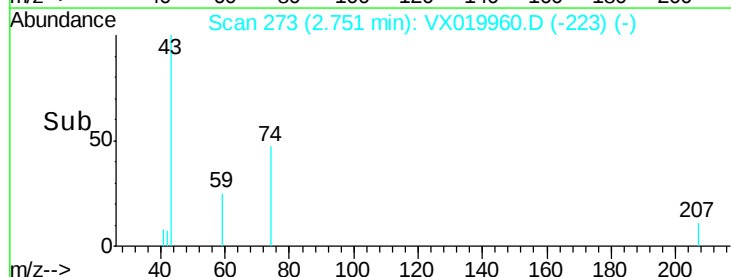
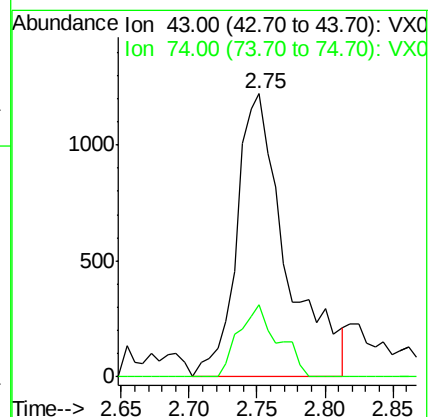
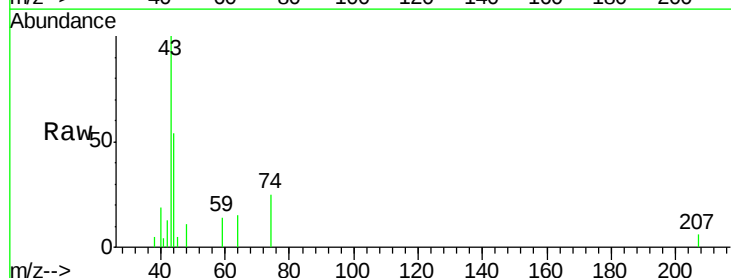
Acq: 13 Dec 2020 02:52

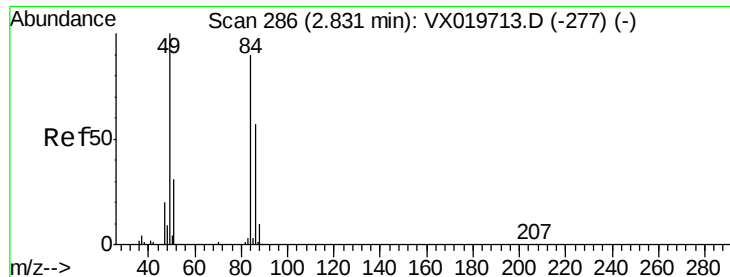
Tgt Ion: 43 Resp: 3114

Ion Ratio Lower Upper

43 100

74 20.2 21.9 32.9#

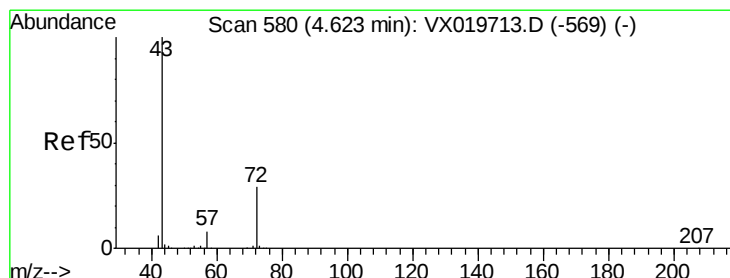
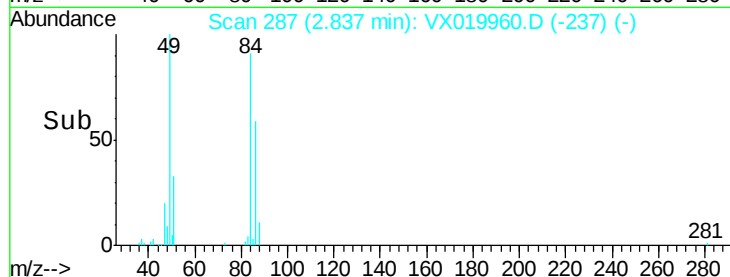
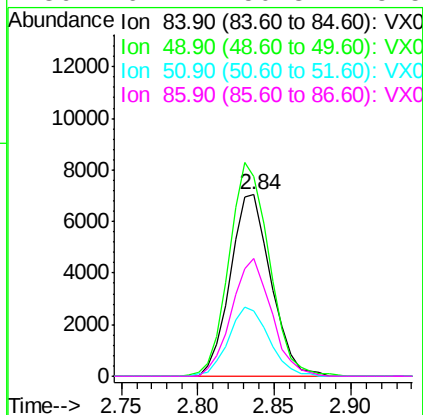
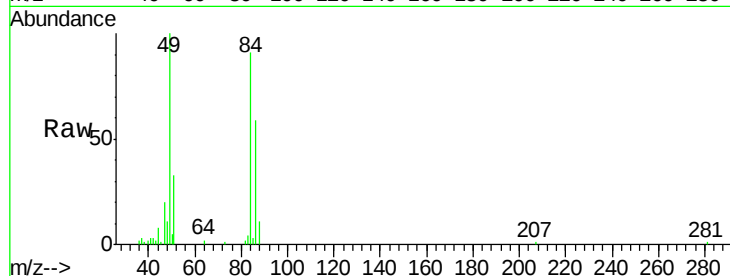




#20
Methylene Chloride
Concen: 2.365 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019960.D
Acq: 13 Dec 2020 02:52

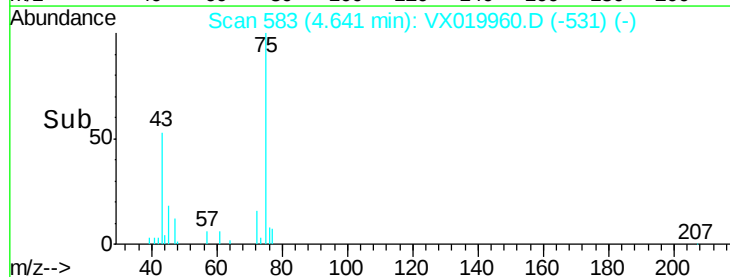
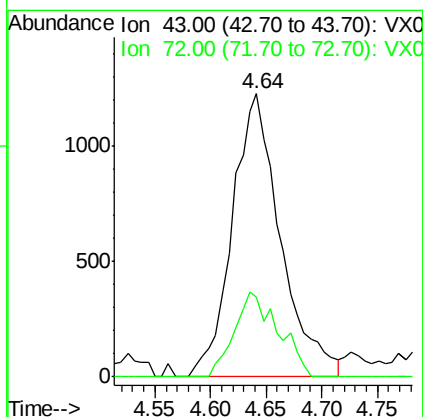
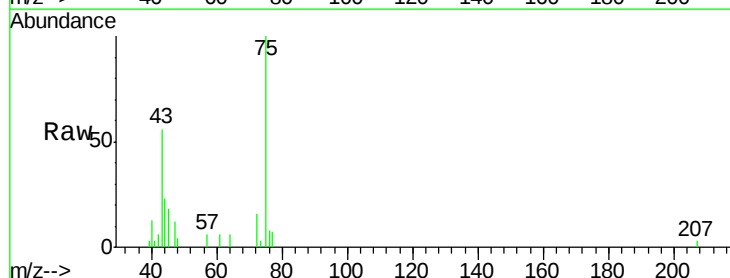
Instrument :
MSVOA_X
ClientSampleId :
PB133565ZHE#12

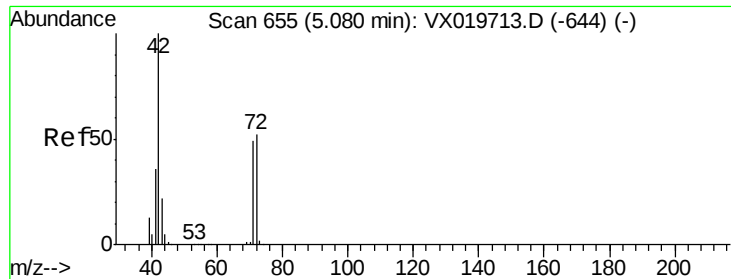
Tgt Ion:	84	Resp:	12991
Ion	Ratio	Lower	Upper
84	100		
49	109.3	88.6	132.8
51	36.2	27.0	40.6
86	64.7	50.3	75.5



#25
2-Butanone
Concen: 1.572 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX019960.D
Acq: 13 Dec 2020 02:52

Tgt Ion:	43	Resp:	3695
Ion	Ratio	Lower	Upper
43	100		
72	28.1	23.7	35.5





#29

Tetrahydrofuran

Concen: 1.278 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#12

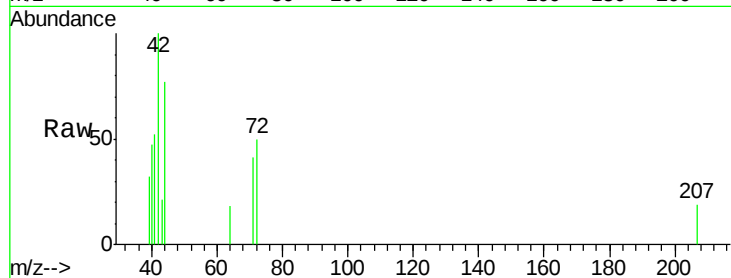
Tgt Ion: 42 Resp: 1935

Ion Ratio Lower Upper

42 100

72 48.1 41.7 62.5

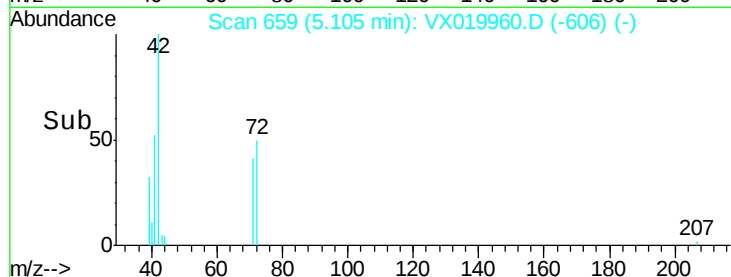
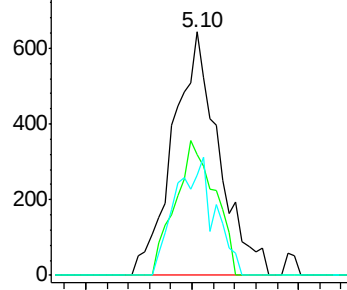
71 42.0 38.4 57.6



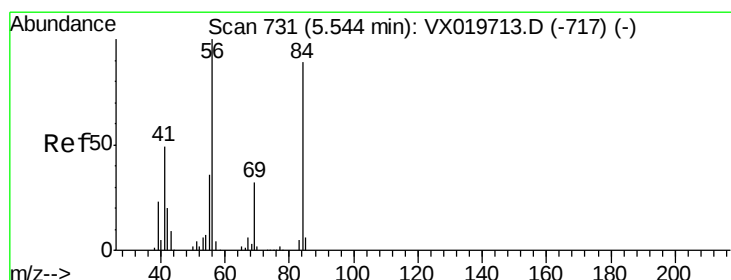
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 1.160 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

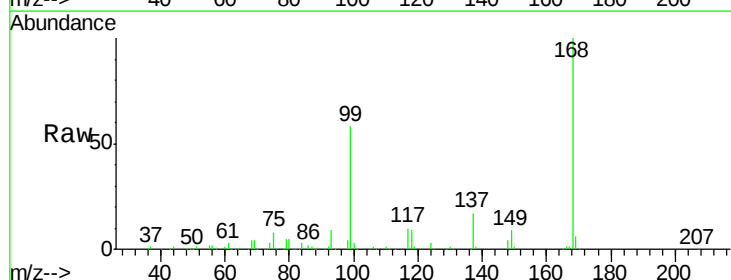
Tgt Ion: 56 Resp: 5873

Ion Ratio Lower Upper

56 100

69 193.0 25.3 37.9#

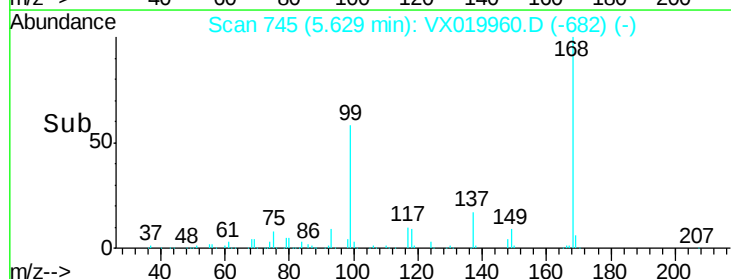
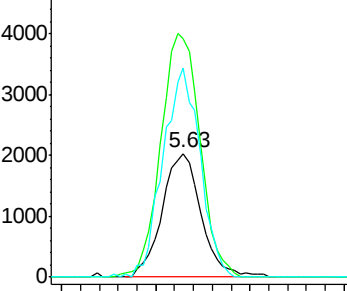
84 169.3 71.4 107.0#



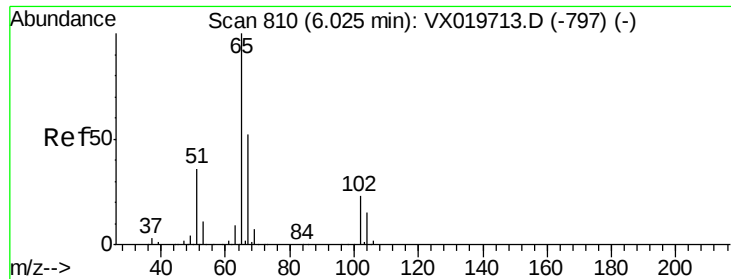
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



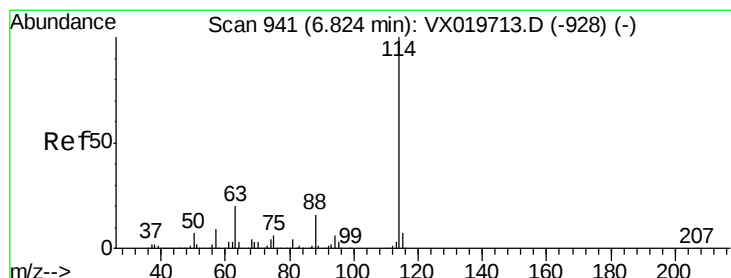
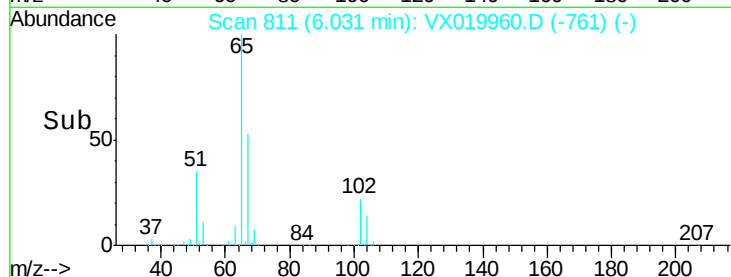
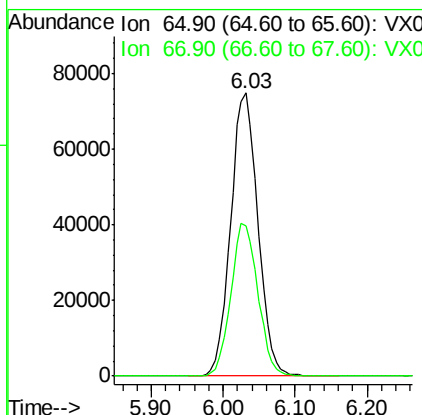
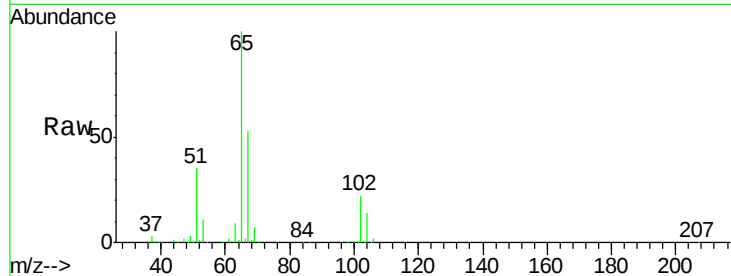
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 48.440 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019960.D
 Acq: 13 Dec 2020 02:52

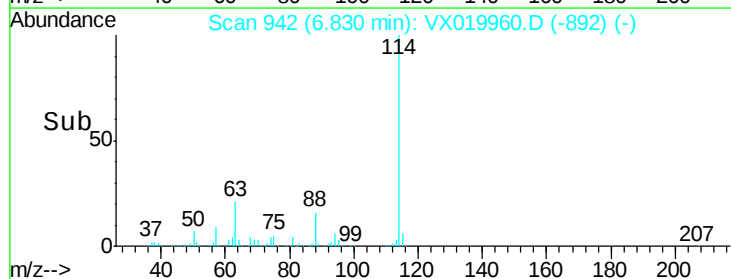
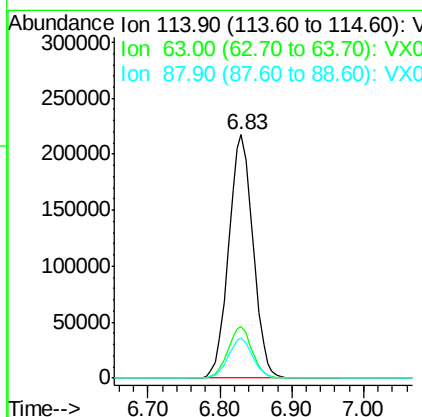
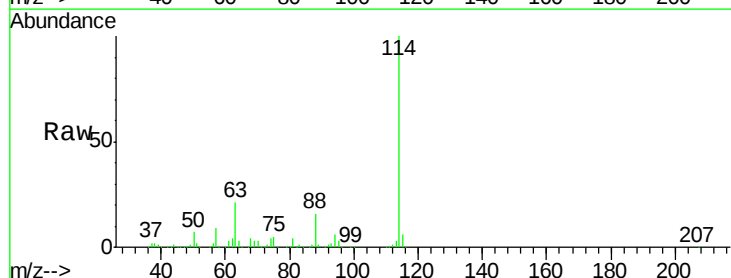
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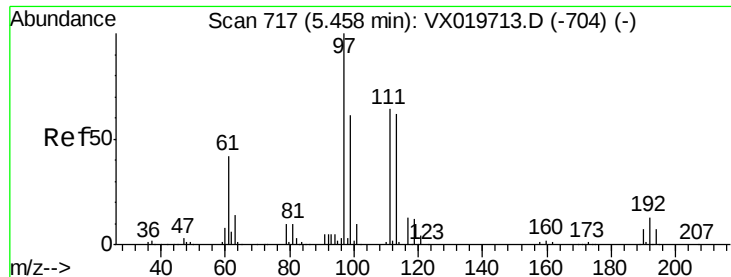
Tgt Ion: 65 Resp: 197161
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019960.D
 Acq: 13 Dec 2020 02:52

Tgt Ion: 114 Resp: 510771
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.8
 88 16.4 0.0 32.8

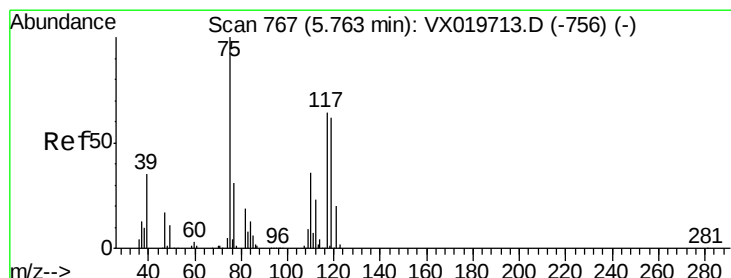
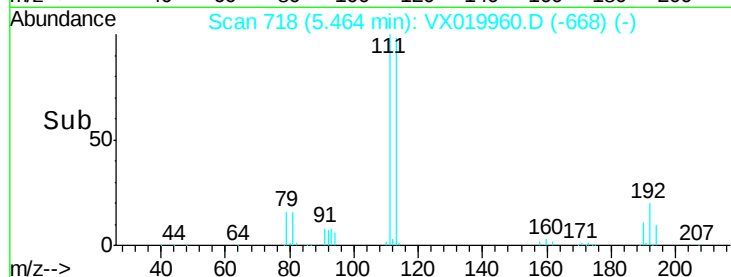
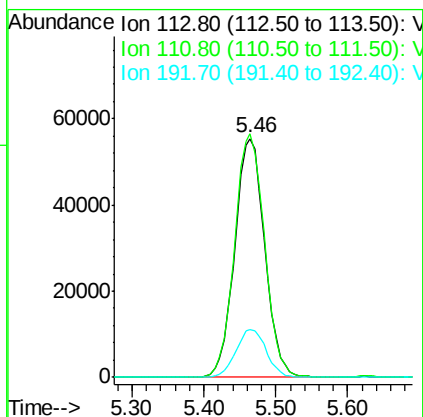
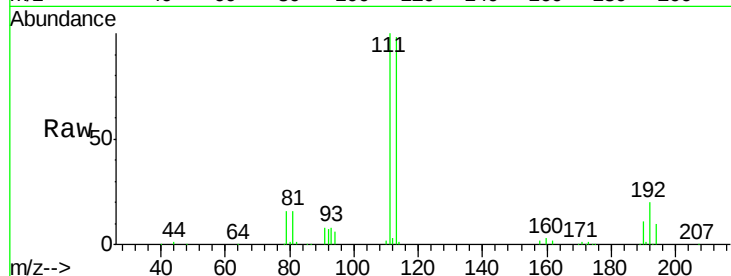




#35
 Dibromofluoromethane
 Concen: 48.436 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019960.D
 Acq: 13 Dec 2020 02:52

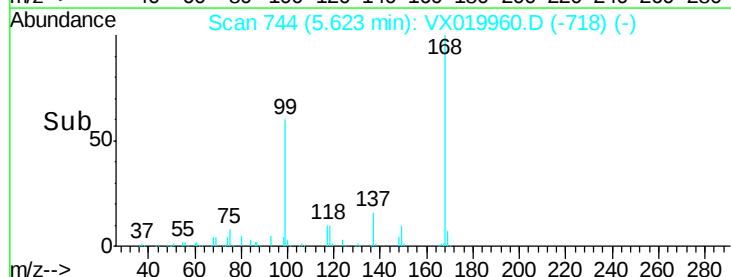
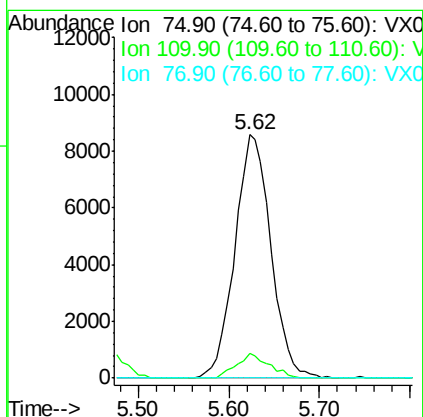
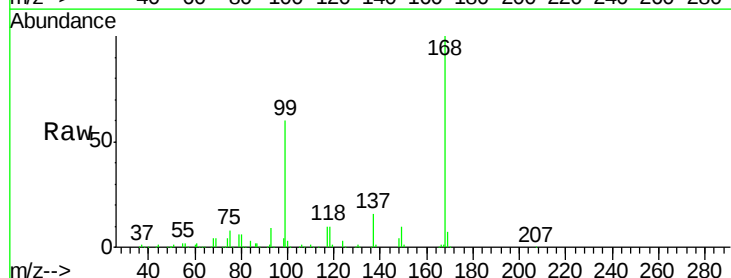
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#12

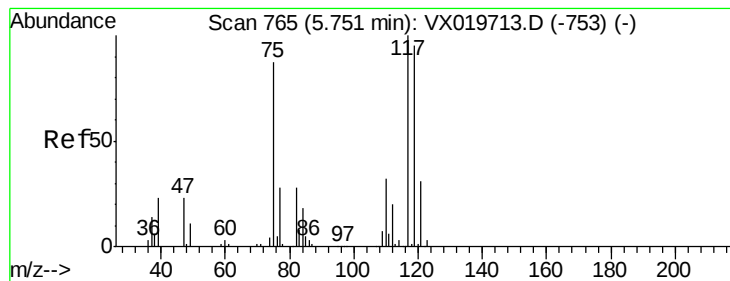
Tgt Ion:113 Resp: 159890
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.9 122.9
 192 20.4 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 5.097 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019960.D
 Acq: 13 Dec 2020 02:52

Tgt Ion: 75 Resp: 23525
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.1 54.4#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.648 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#12

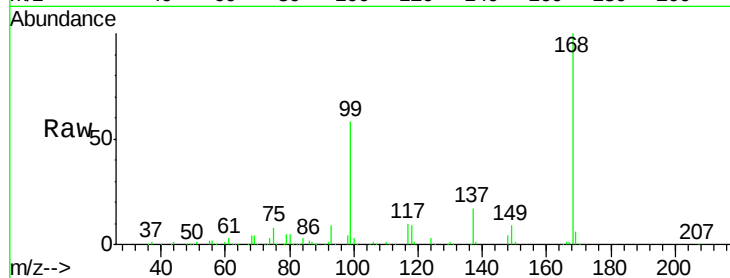
Tgt Ion:117 Resp: 30048

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

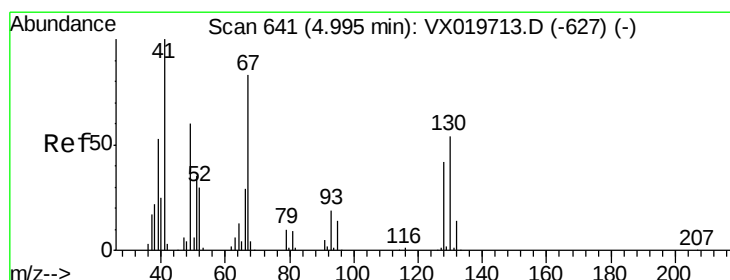
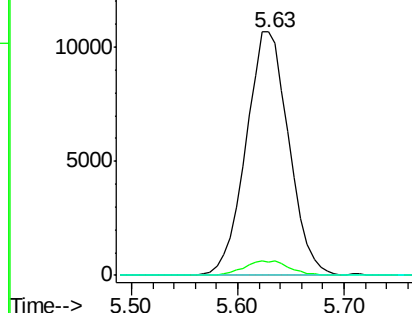
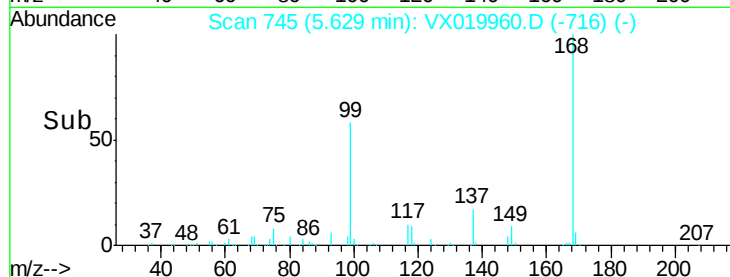
121 0.0 24.8 37.2#



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



#41

Methacrylonitrile

Concen: 0.557 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Tgt Ion: 41 Resp: 1426

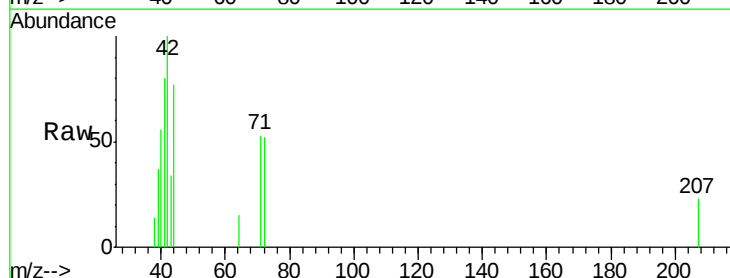
Ion Ratio Lower Upper

41 100

39 35.1 42.5 63.7#

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

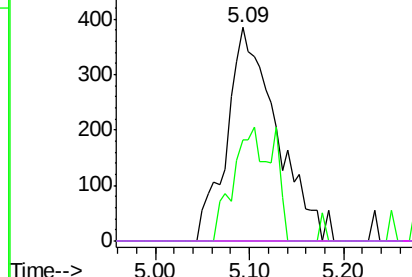
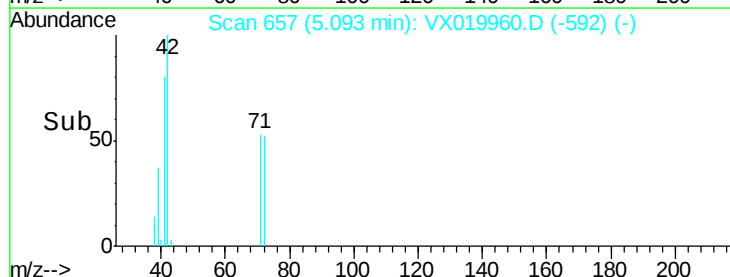


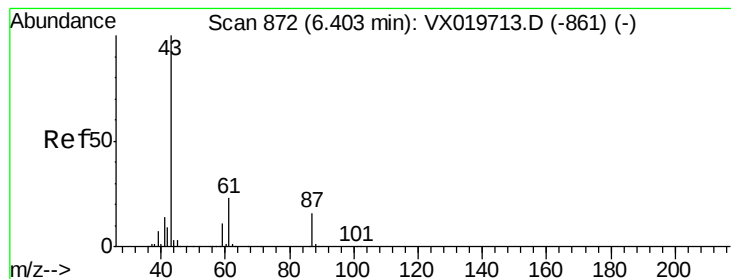
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 3.727 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#12

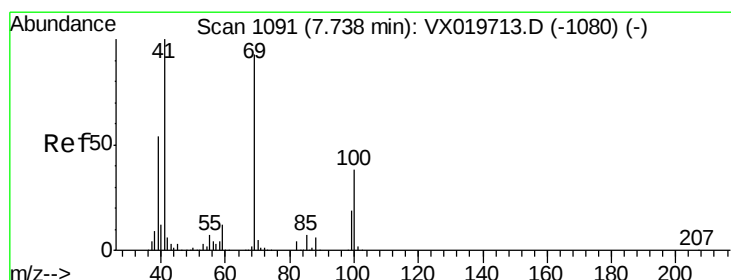
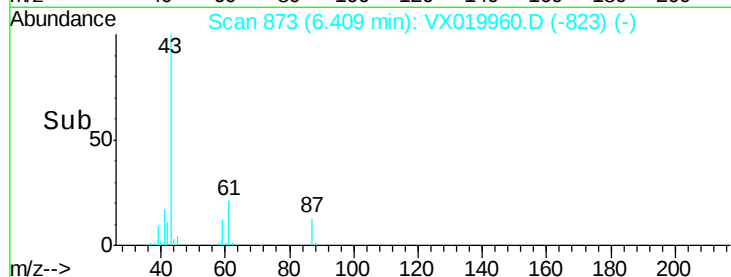
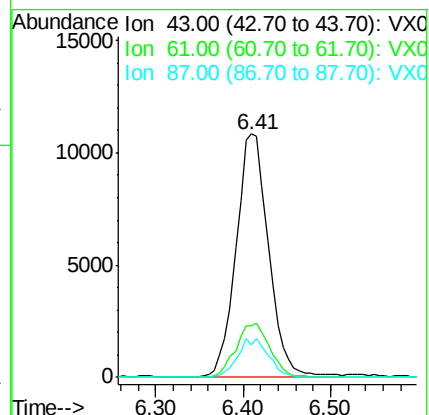
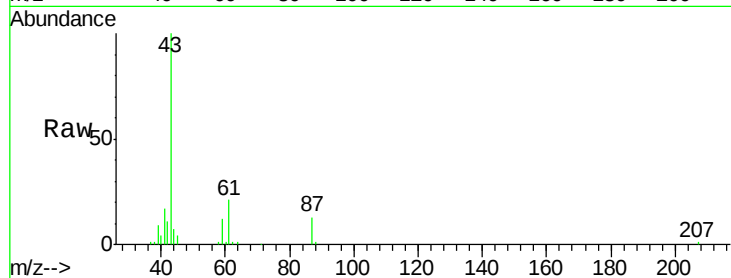
Tgt Ion: 43 Resp: 28239

Ion Ratio Lower Upper

43 100

61 22.8 18.2 27.4

87 15.0 12.5 18.7



#48

Methyl methacrylate

Concen: 1.836 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

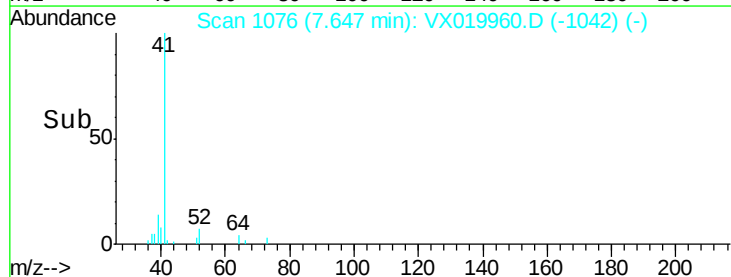
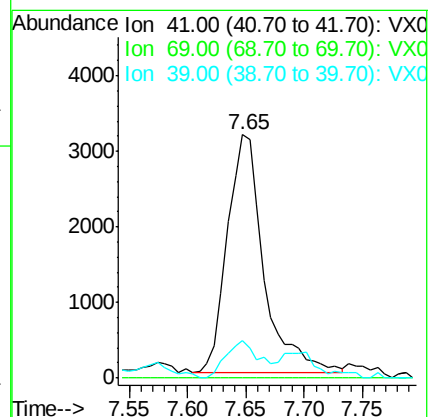
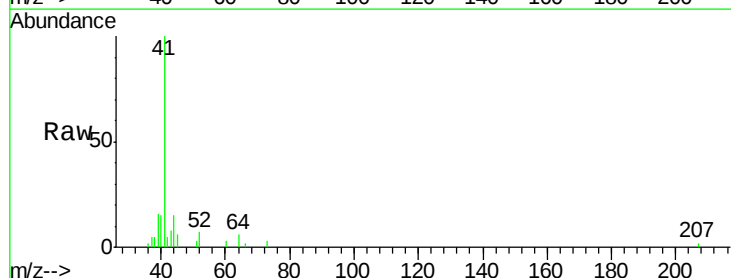
Tgt Ion: 41 Resp: 6842

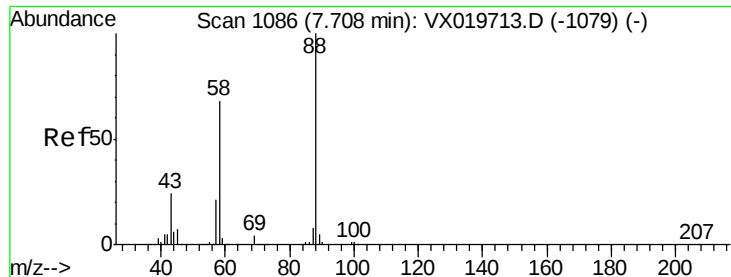
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 3.368 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.14 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#12

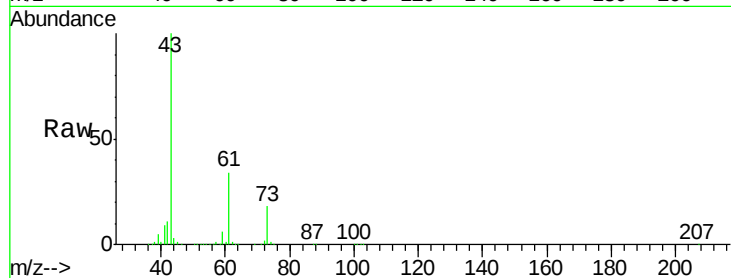
Tgt Ion: 88 Resp: 304

Ion Ratio Lower Upper

88 100

43 511127.3 23.2 34.8#

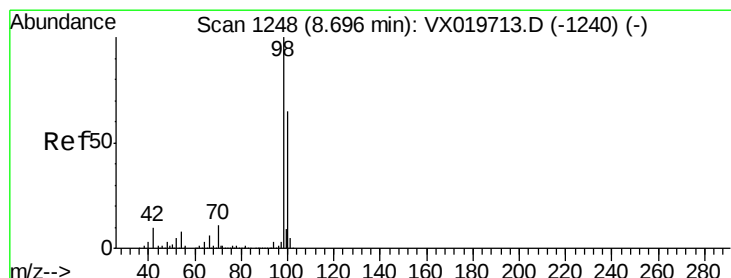
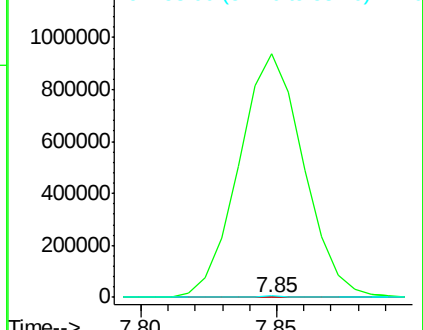
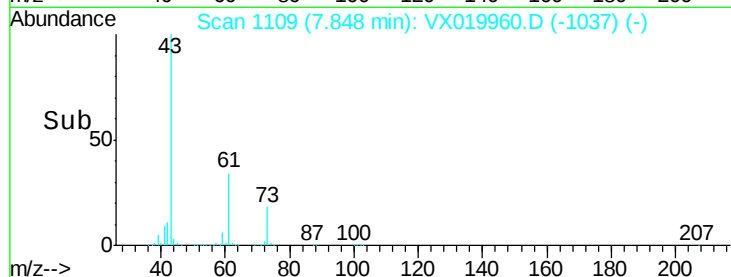
58 2536.2 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.689 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019960.D

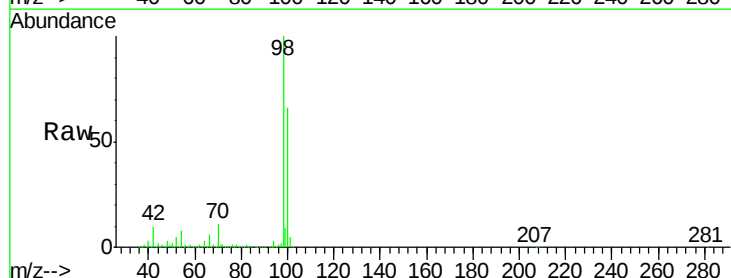
Acq: 13 Dec 2020 02:52

Tgt Ion: 98 Resp: 626209

Ion Ratio Lower Upper

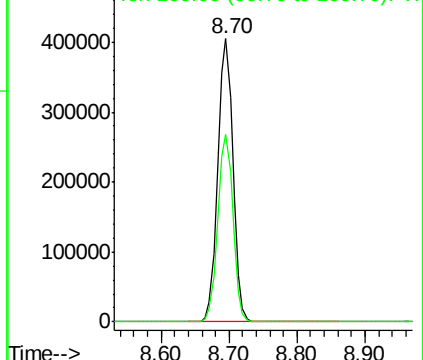
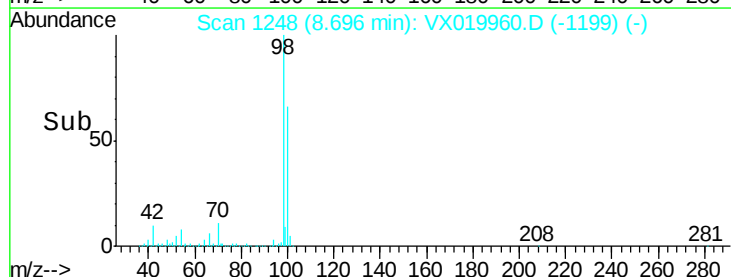
98 100

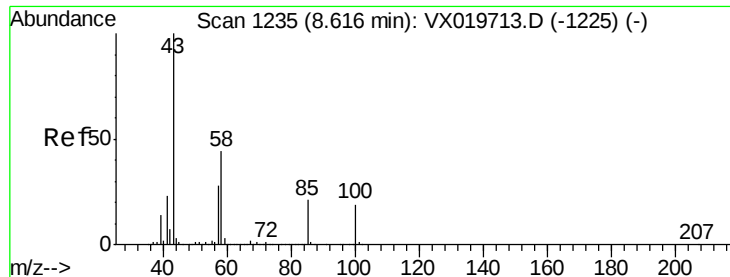
100 66.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 20.648 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

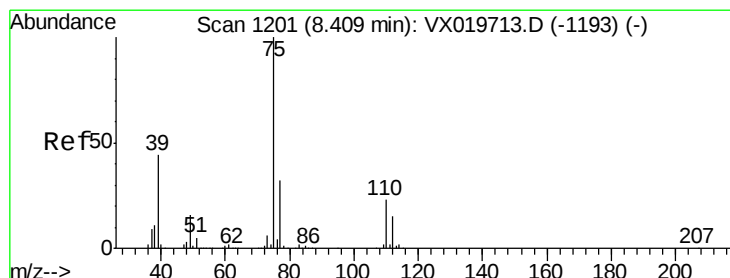
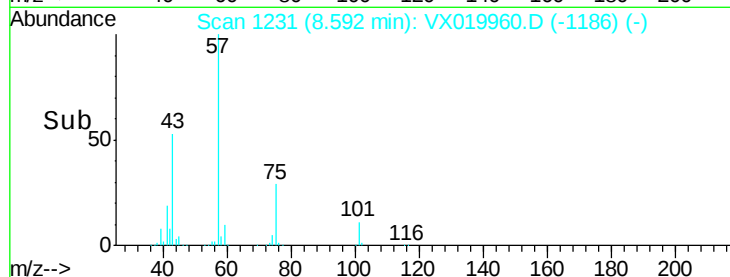
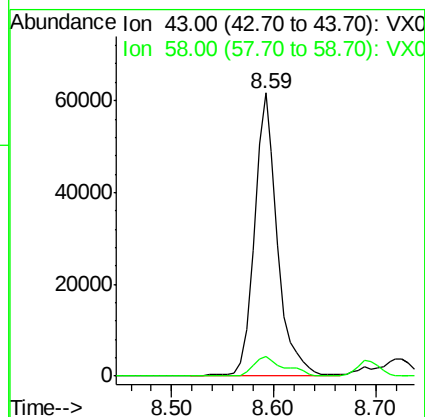
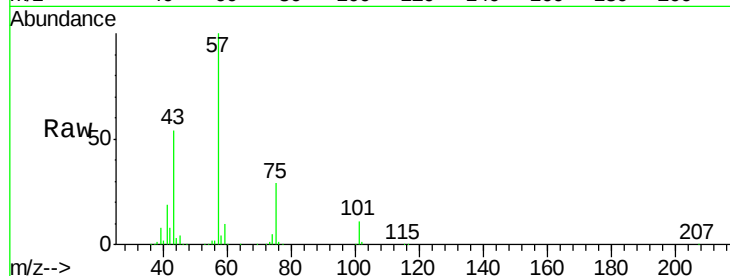
PB133565ZHE#12

Tgt Ion: 43 Resp: 95509

Ion Ratio Lower Upper

43 100

58 9.4 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 8.812 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

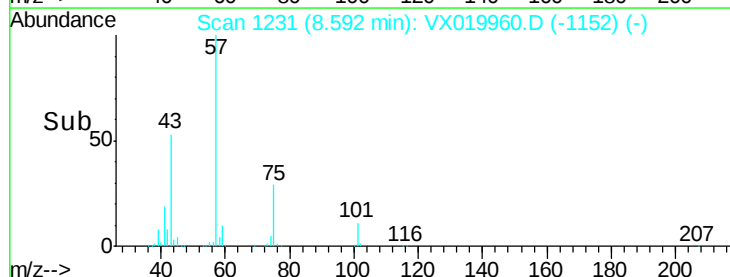
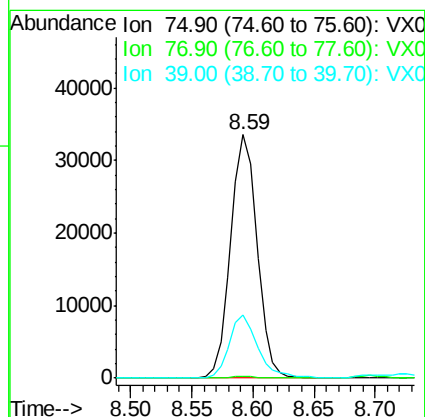
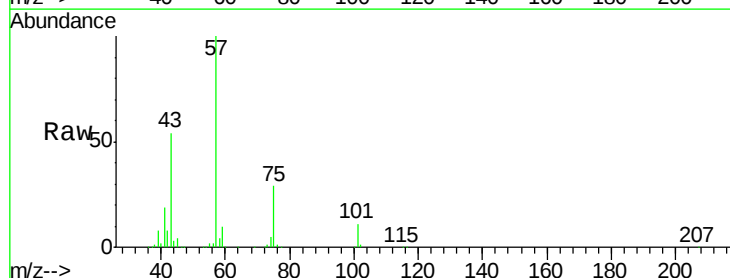
Tgt Ion: 75 Resp: 50163

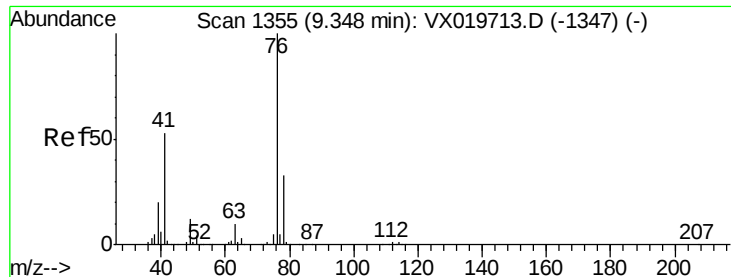
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 25.7 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 5.081 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

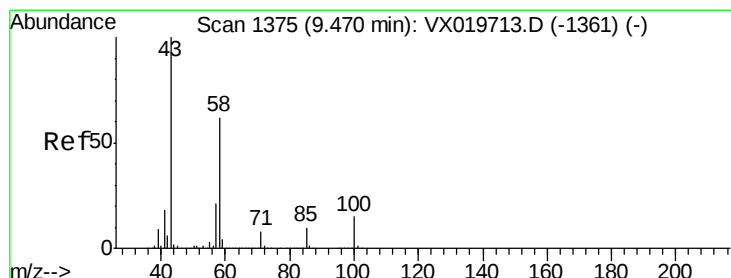
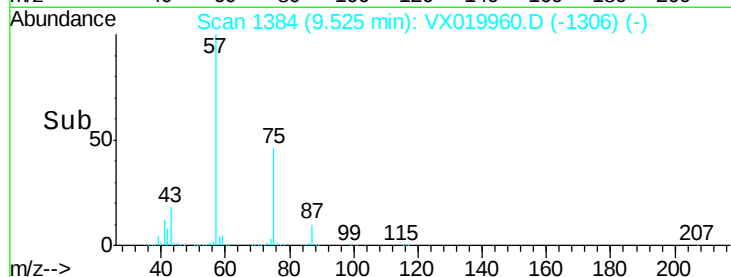
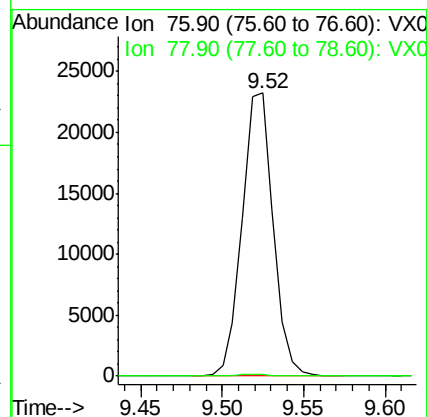
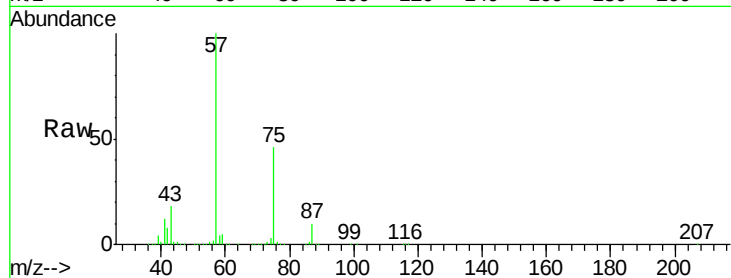
PB133565ZHE#12

Tgt Ion: 76 Resp: 30833

Ion Ratio Lower Upper

76 100

78 0.6 26.2 39.2#



#59

2-Hexanone

Concen: 104.431 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019960.D

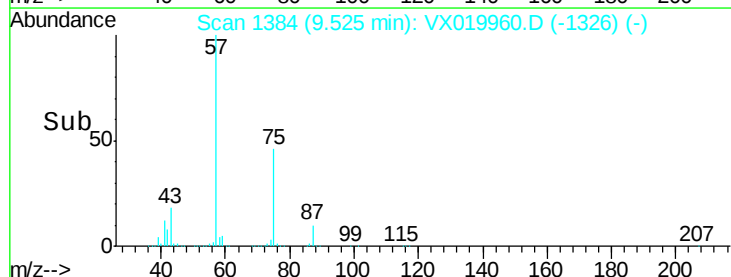
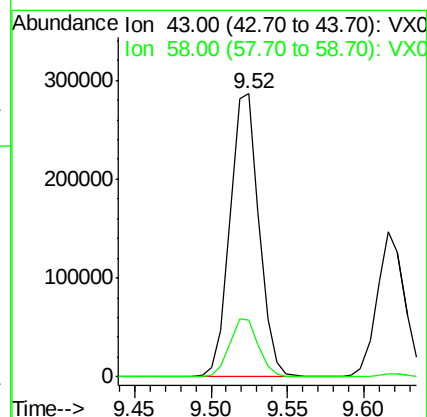
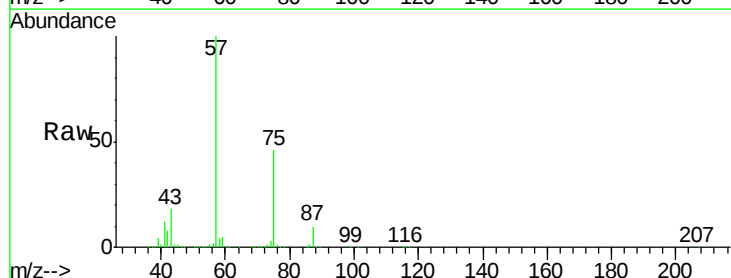
Acq: 13 Dec 2020 02:52

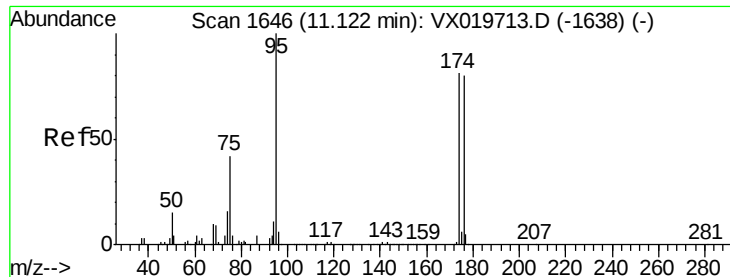
Tgt Ion: 43 Resp: 374436

Ion Ratio Lower Upper

43 100

58 20.6 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 44.460 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#12

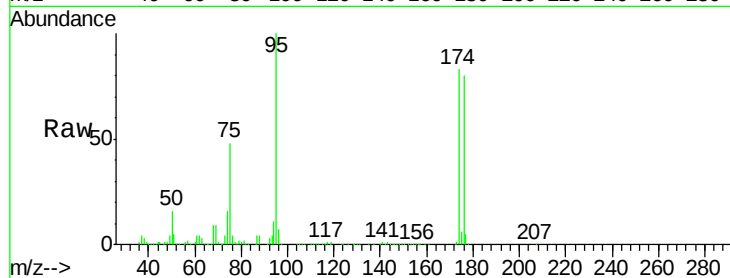
Tgt Ion: 95 Resp: 213260

Ion Ratio Lower Upper

95 100

174 77.3 0.0 154.6

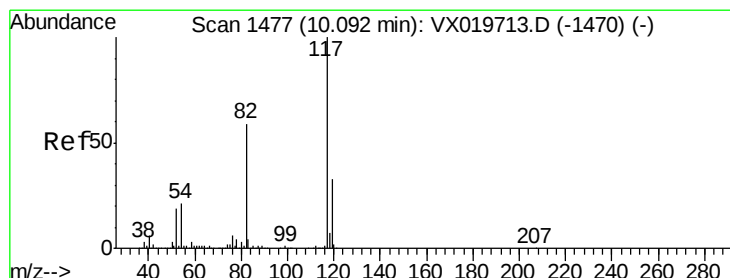
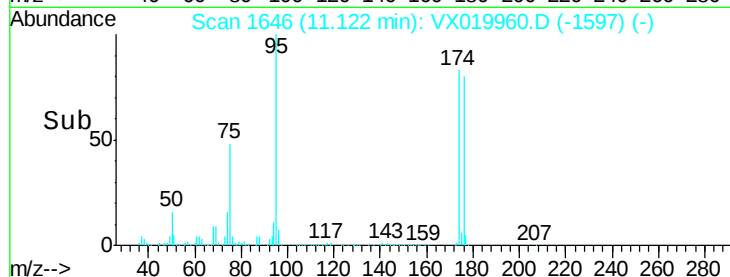
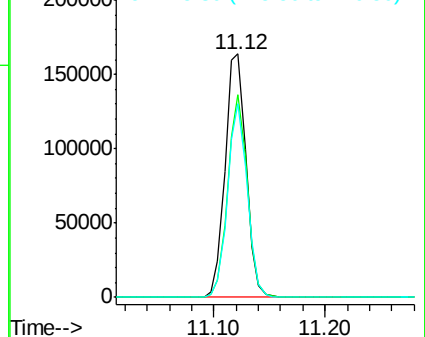
176 74.8 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

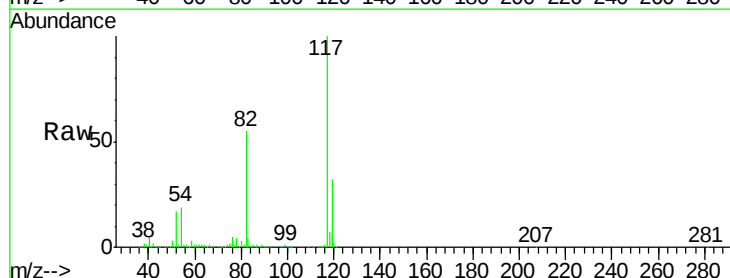
Tgt Ion: 117 Resp: 466389

Ion Ratio Lower Upper

117 100

82 55.3 47.4 71.2

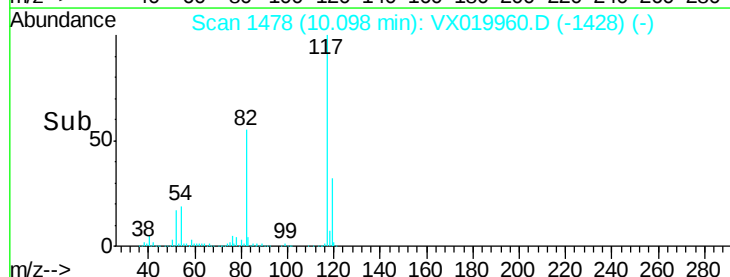
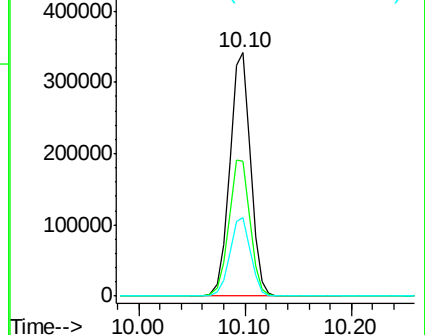
119 32.2 26.6 39.8

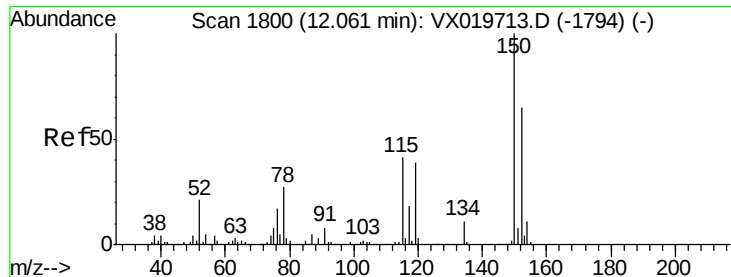


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#12

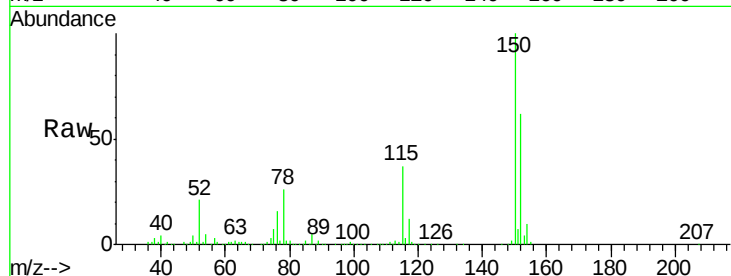
Tgt Ion:152 Resp: 188792

Ion Ratio Lower Upper

152 100

115 60.3 41.1 123.3

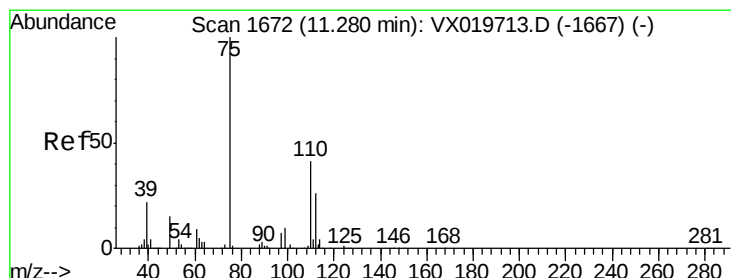
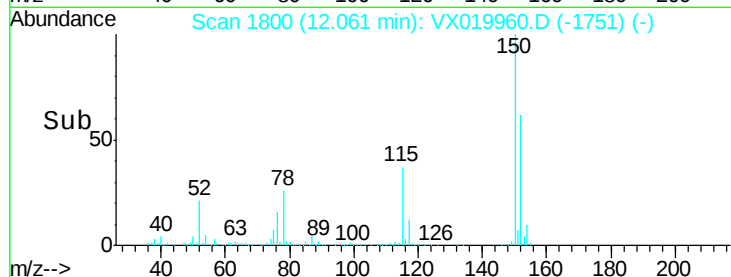
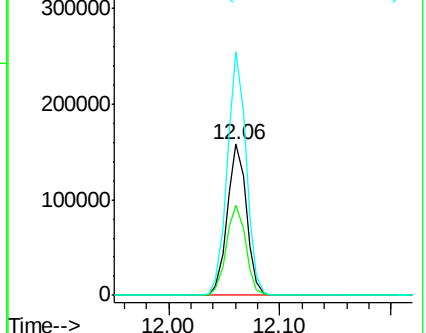
150 158.3 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 24.408 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019960.D

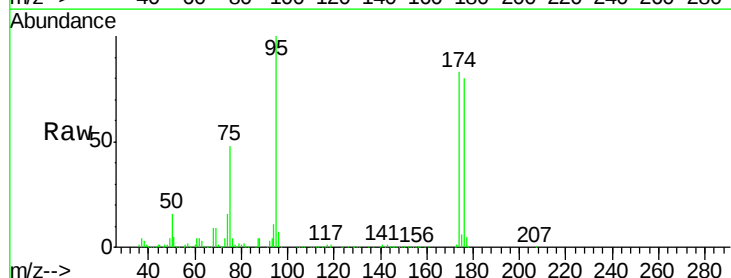
Acq: 13 Dec 2020 02:52

Tgt Ion: 75 Resp: 103351

Ion Ratio Lower Upper

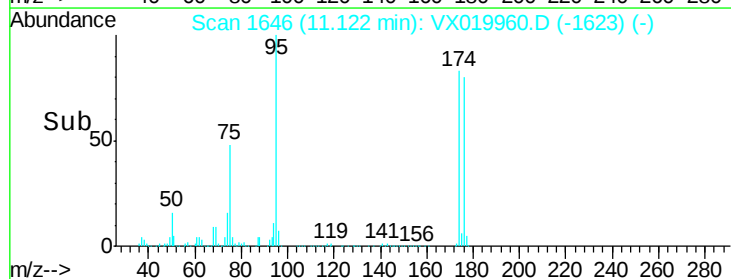
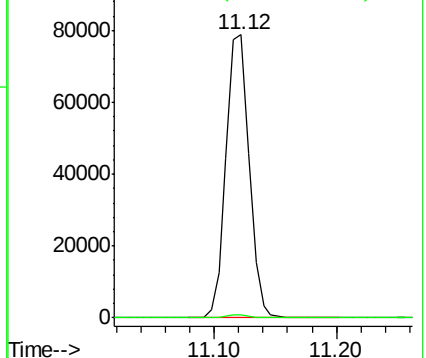
75 100

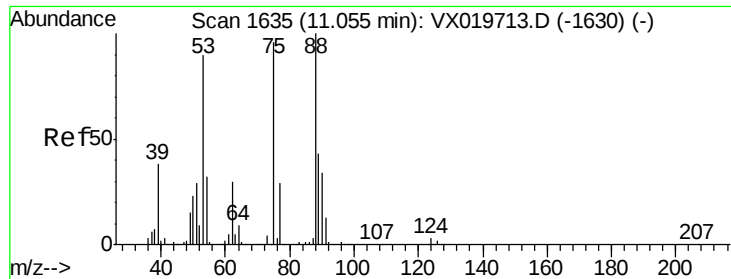
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.560 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019960.D

Acq: 13 Dec 2020 02:52

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#12

Tgt Ion: 75 Resp: 103351

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

