

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019967.D
 Acq On : 13 Dec 2020 05:35
 Operator : JC/MD
 Sample : PB133565ZHE#19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#19

Quant Time: Dec 14 08:25:16 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	295237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	495218	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	470616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206334	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	191829	49.44	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.88%		
35) Dibromofluoromethane	5.46	113	153273	47.89	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.78%		
50) Toluene-d8	8.70	98	618689	50.63	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.26%		
62) 4-Bromofluorobenzene	11.12	95	222193	47.78	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	95.56%		

Target Compounds

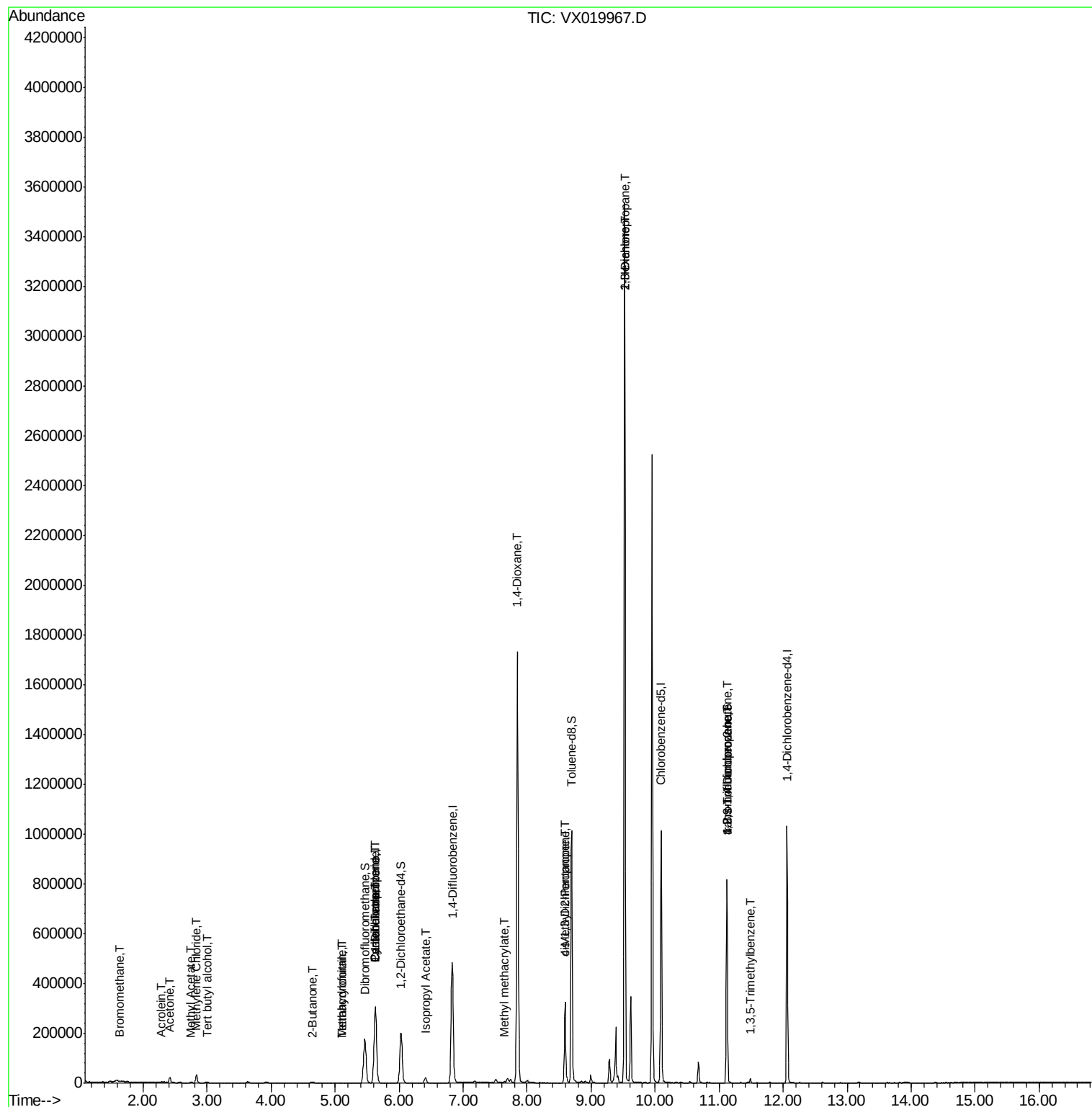
					Qvalue
5) Bromomethane	1.63	94	461	0.414 ug/l	95
11) Tert butyl alcohol	2.99	59	2927	1.067 ug/l #	73
13) Acrolein	2.28	56	139	0.325 ug/l #	14
16) Acetone	2.42	43	21506	14.745 ug/l	98
18) Methyl Acetate	2.75	43	4153	1.164 ug/l	93
20) Methylene Chloride	2.83	84	15241	3.247 ug/l	99
25) 2-Butanone	4.64	43	4234	1.889 ug/l #	87
29) Tetrahydrofuran	5.10	42	1116	0.773 ug/l #	64
31) Cyclohexane	5.62	56	5829	1.208 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22246	4.971 ug/l #	49
38) Carbon Tetrachloride	5.62	117	28814	6.575 ug/l #	17
41) Methacrylonitrile	5.10	41	700	0.282 ug/l #	40
43) Isopropyl Acetate	6.41	43	27101	3.689 ug/l	97
48) Methyl methacrylate	7.65	41	7408	2.051 ug/l #	10
49) 1,4-Dioxane	7.84	88	259	2.959 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	101127	22.549 ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	53495	9.692 ug/l #	59
57) 1,3-Dichloropropane	9.52	76	31672	5.384 ug/l #	43
59) 2-Hexanone	9.52	43	378598	108.908 ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	105685	22.837 ug/l #	39
80) 1,3,5-Trimethylbenzene	11.49	105	7717	0.649 ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	105685	66.019 ug/l #	12

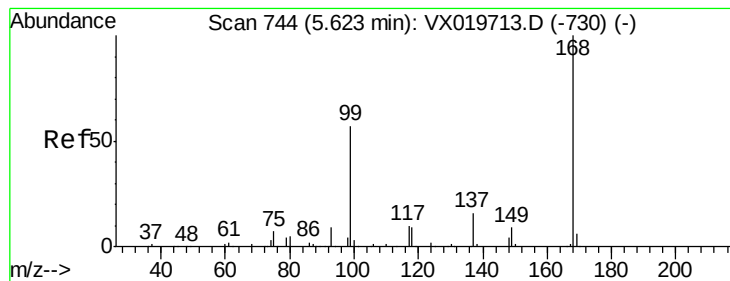
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 14 08:25:16 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
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: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

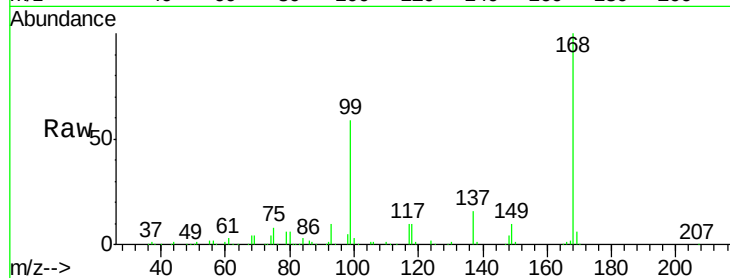
PB133565ZHE#19

Tgt Ion:168 Resp: 295237

Ion Ratio Lower Upper

168 100

99 59.2 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

80000

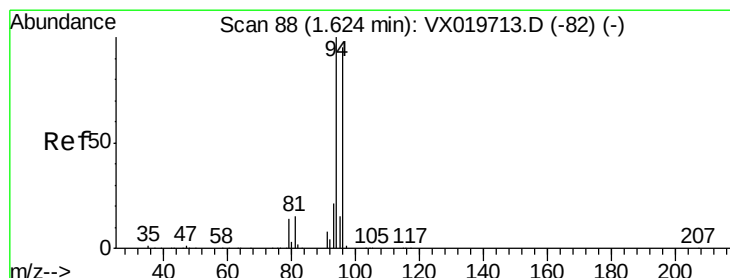
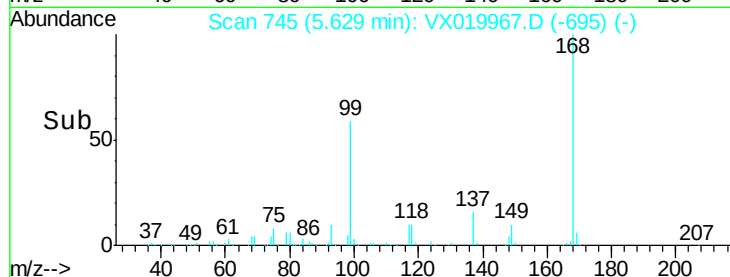
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.414 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019967.D

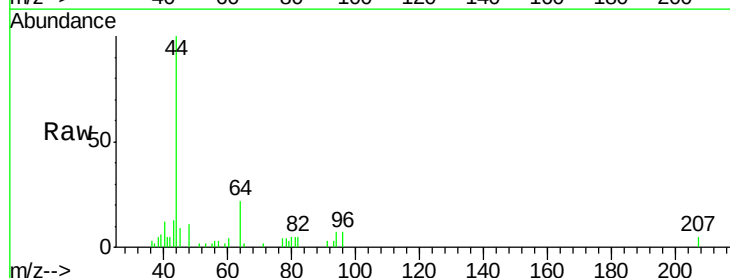
Acq: 13 Dec 2020 05:35

Tgt Ion: 94 Resp: 461

Ion Ratio Lower Upper

94 100

96 100.0 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

200

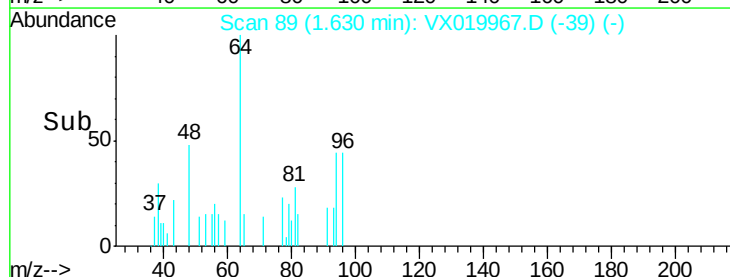
150

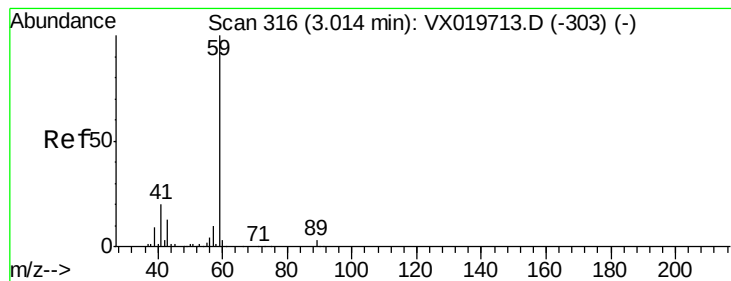
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 1.067 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

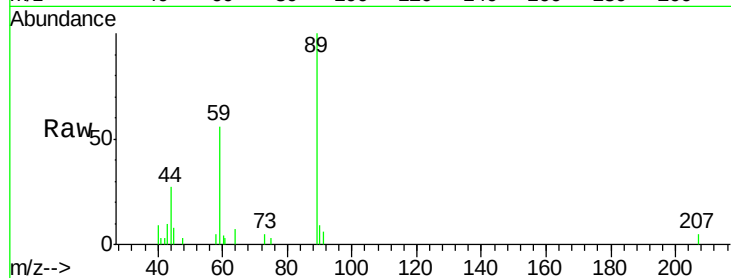
PB133565ZHE#19

Tgt Ion: 59 Resp: 2927

Ion Ratio Lower Upper

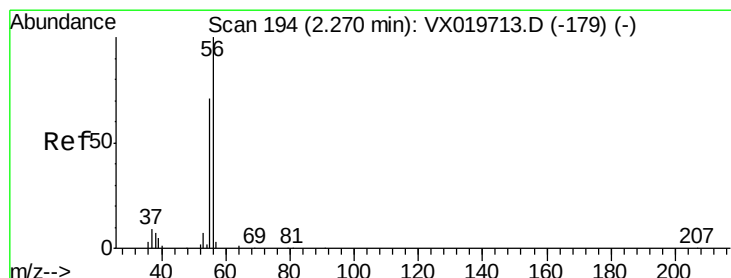
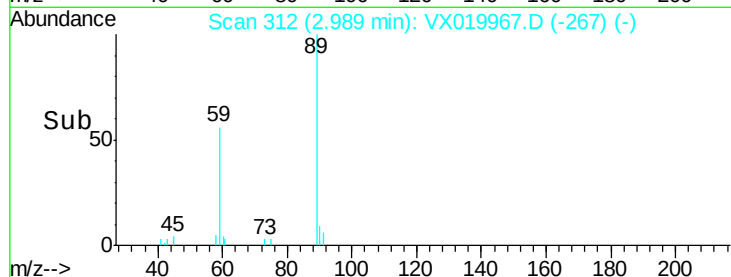
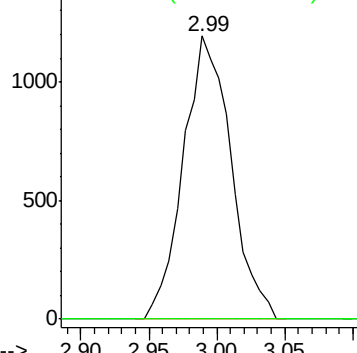
59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.325 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019967.D

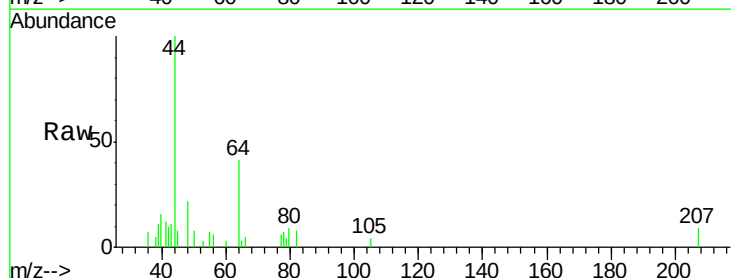
Acq: 13 Dec 2020 05:35

Tgt Ion: 56 Resp: 139

Ion Ratio Lower Upper

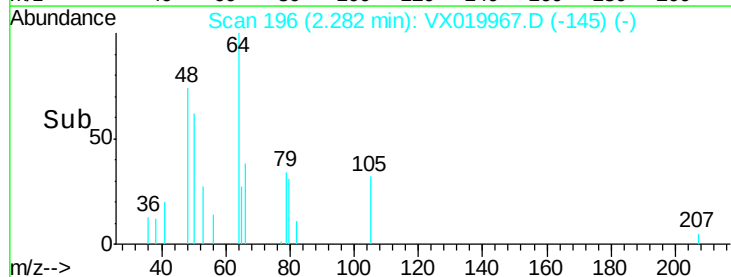
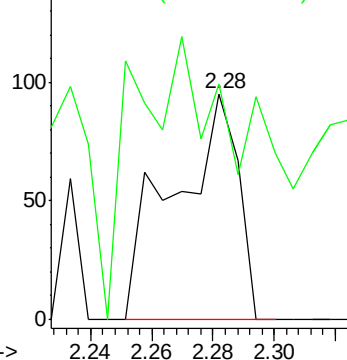
56 100

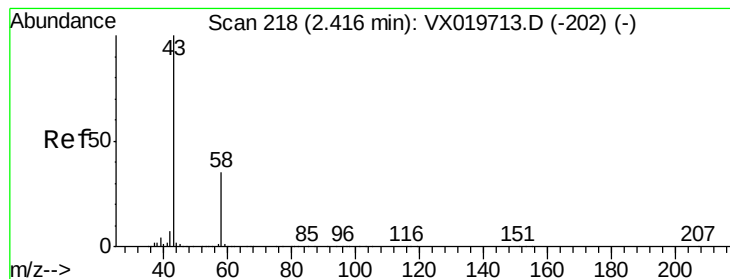
55 0.0 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 14.745 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

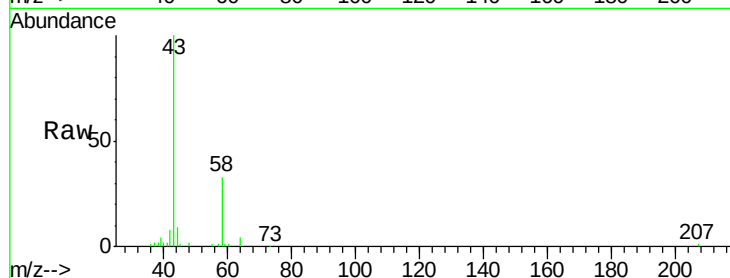
PB133565ZHE#19

Tgt Ion: 43 Resp: 21506

Ion Ratio Lower Upper

43 100

58 33.4 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

15000

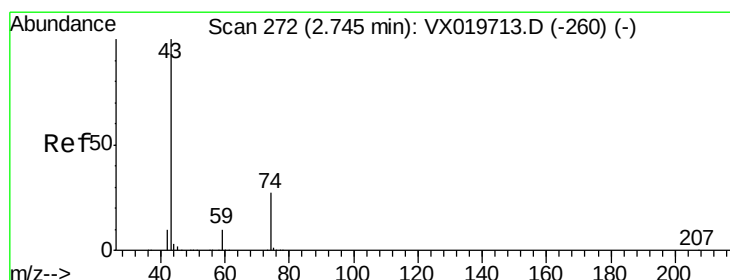
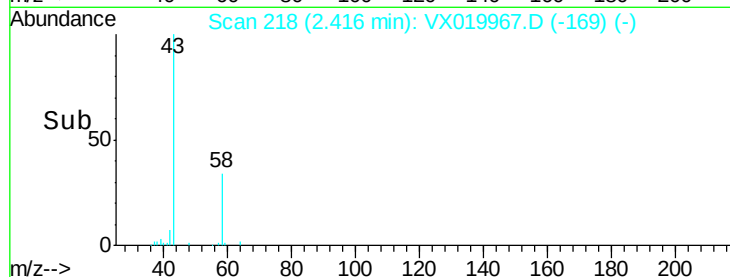
10000

5000

0

2.35 2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 1.164 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019967.D

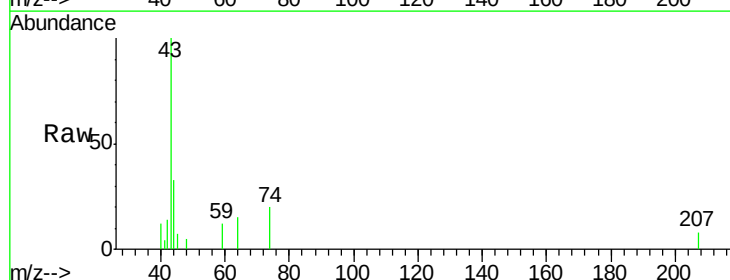
Acq: 13 Dec 2020 05:35

Tgt Ion: 43 Resp: 4153

Ion Ratio Lower Upper

43 100

74 23.6 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1500

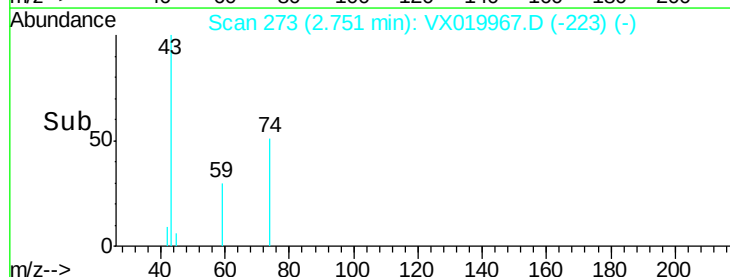
1000

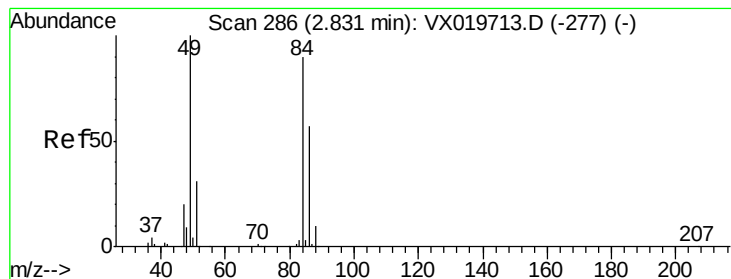
500

0

2.70 2.80

Time-->





#20

Methylene Chloride

Concen: 3.247 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#19

Tgt Ion: 84 Resp: 15241

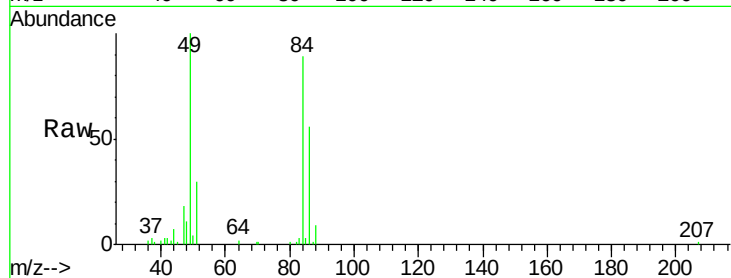
Ion Ratio Lower Upper

84 100

49 112.5 88.6 132.8

51 34.2 27.0 40.6

86 62.5 50.3 75.5

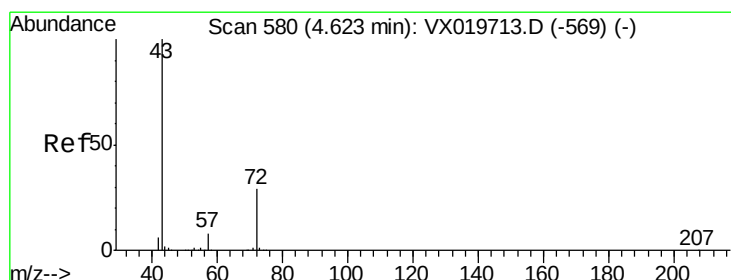
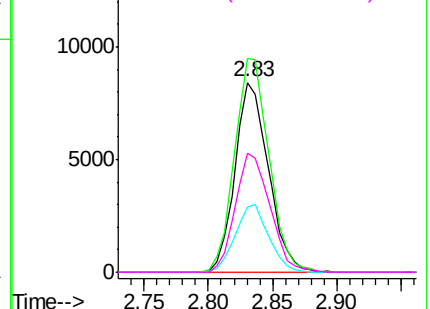
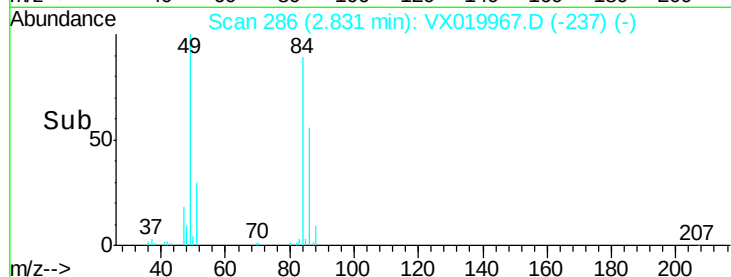


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.889 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019967.D

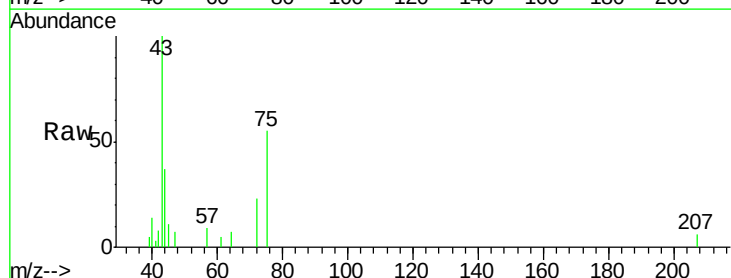
Acq: 13 Dec 2020 05:35

Tgt Ion: 43 Resp: 4234

Ion Ratio Lower Upper

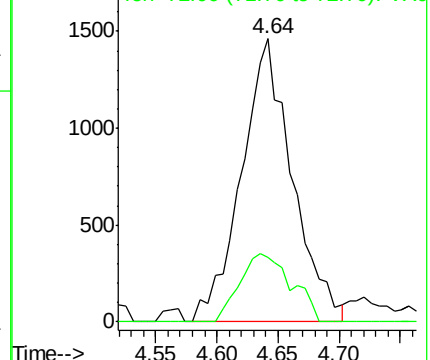
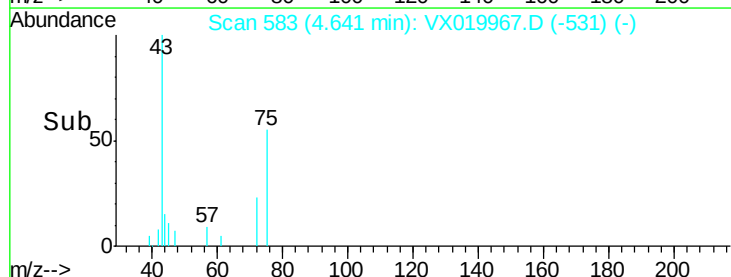
43 100

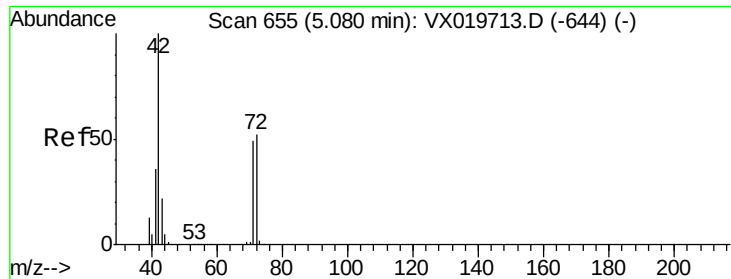
72 22.6 23.7 35.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

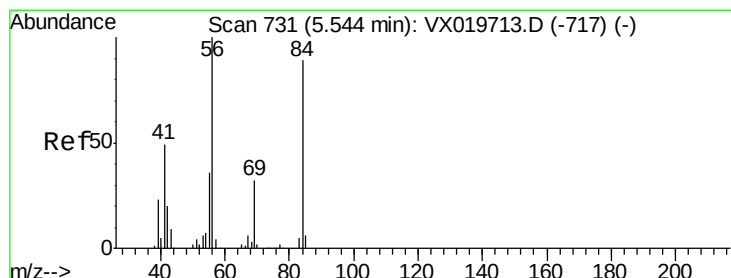
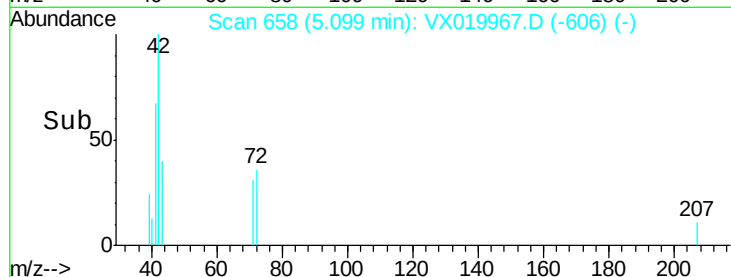
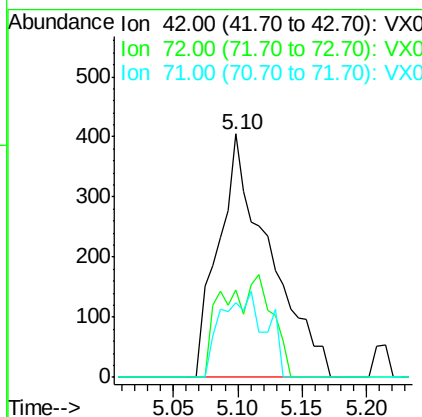
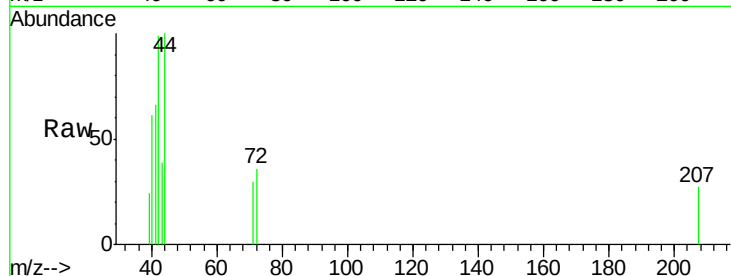




#29
Tetrahydrofuran
Concen: 0.773 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX019967.D
Acq: 13 Dec 2020 05:35

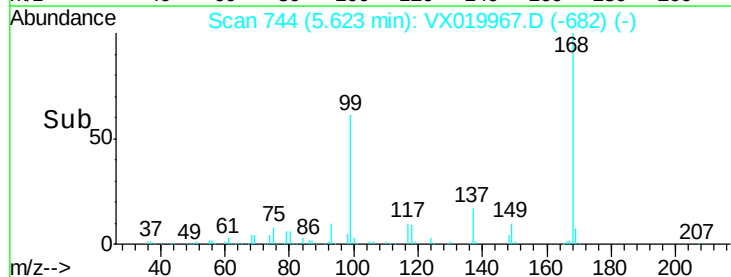
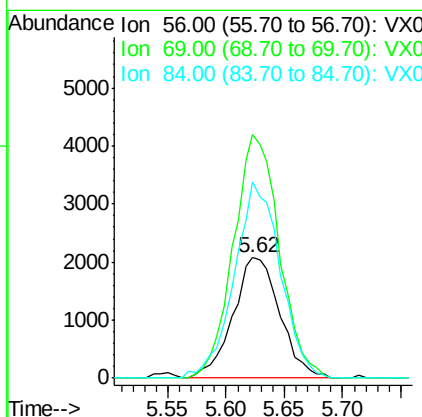
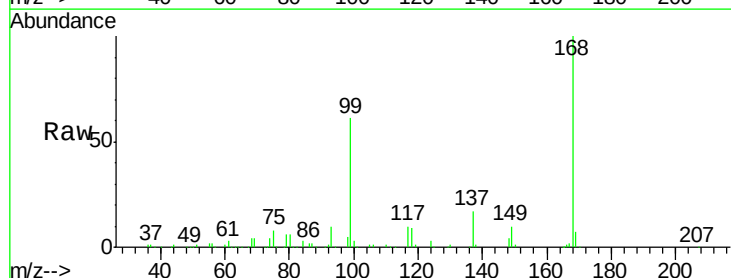
Instrument :
MSVOA_X
ClientSampleId :
PB133565ZHE#19

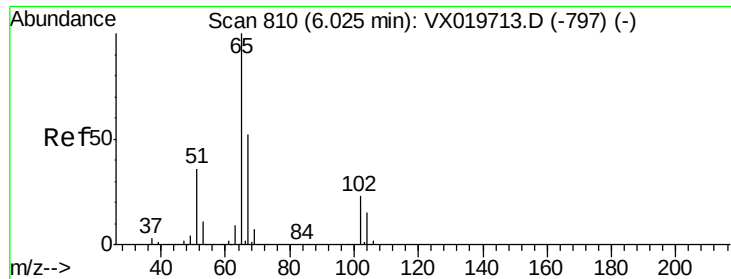
Tgt Ion: 42 Resp: 1116
Ion Ratio Lower Upper
42 100
72 19.7 41.7 62.5#
71 30.8 38.4 57.6#



#31
Cyclohexane
Concen: 1.208 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019967.D
Acq: 13 Dec 2020 05:35

Tgt Ion: 56 Resp: 5829
Ion Ratio Lower Upper
56 100
69 202.7 25.3 37.9#
84 163.9 71.4 107.0#

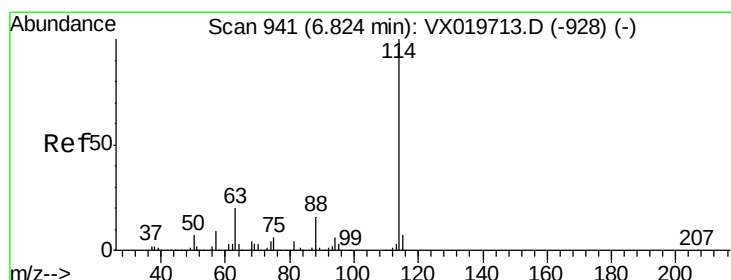
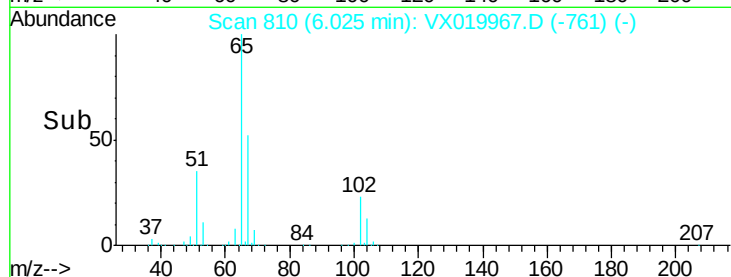
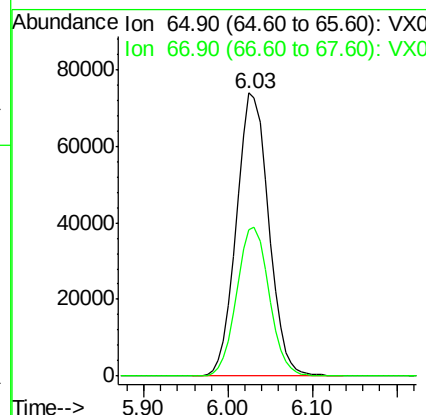
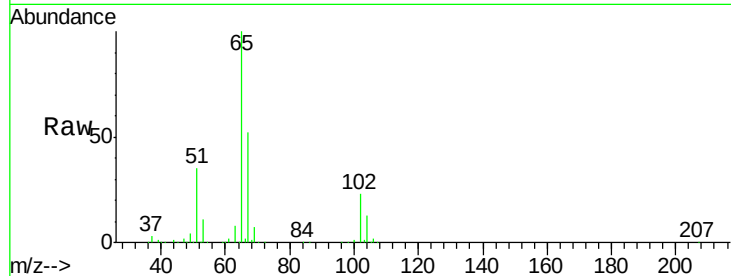




#33
 1,2-Dichloroethane-d4
 Concen: 49.437 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

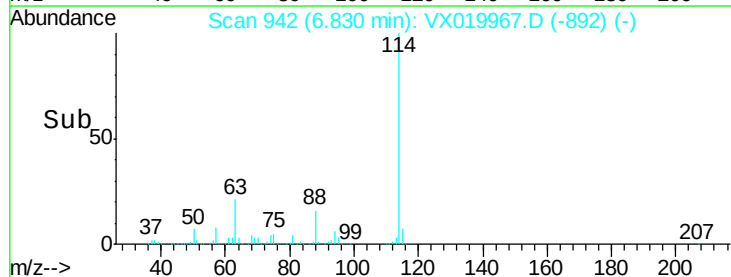
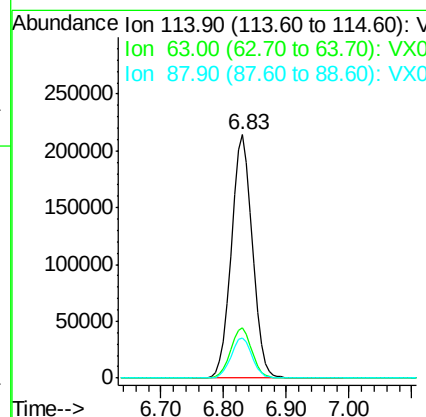
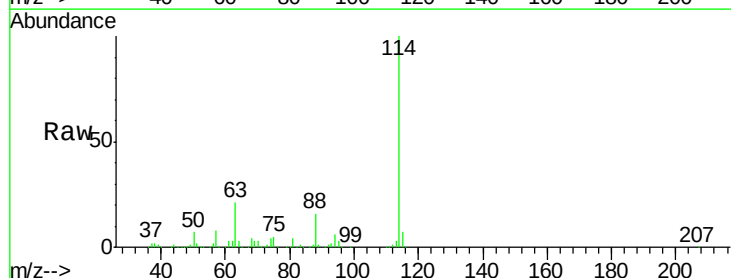
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#19

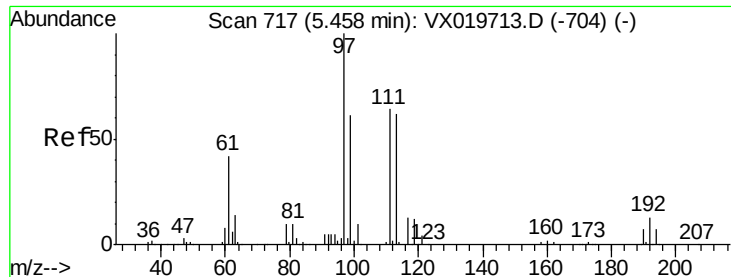
Tgt Ion: 65 Resp: 191829
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

Tgt Ion: 114 Resp: 495218
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 16.3 0.0 32.8

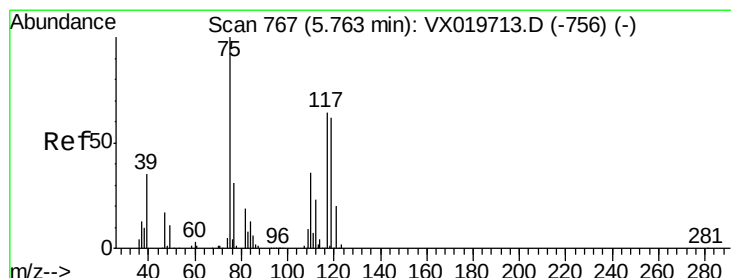
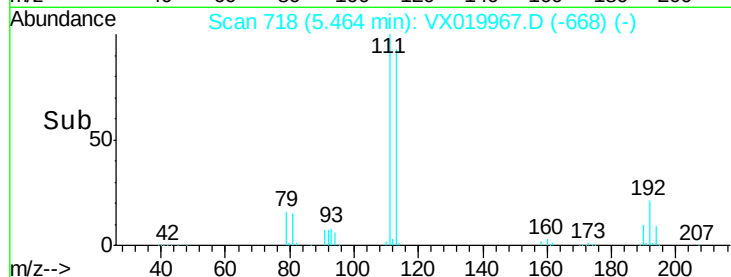
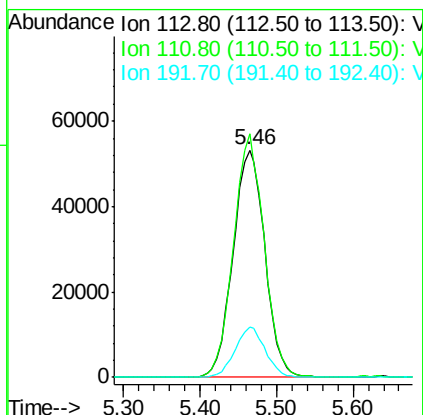
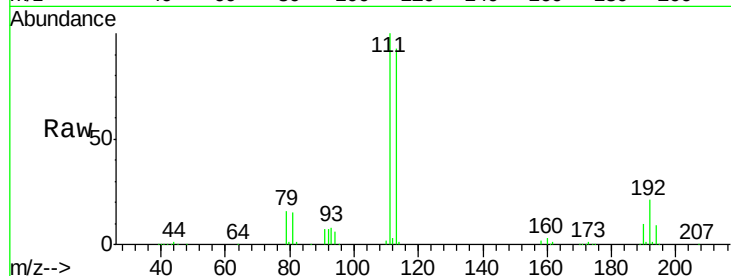




#35
 Dibromofluoromethane
 Concen: 47.890 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

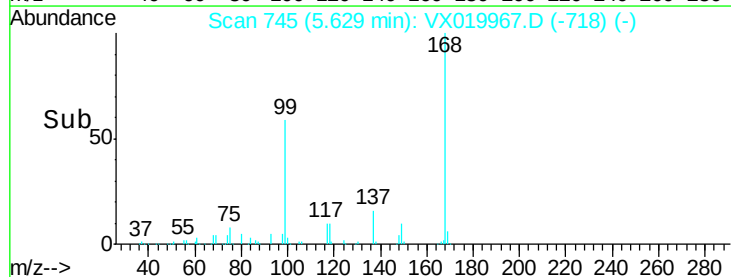
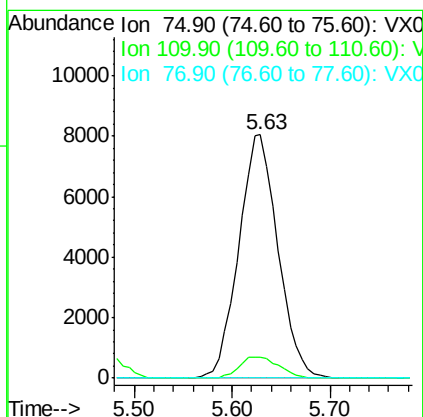
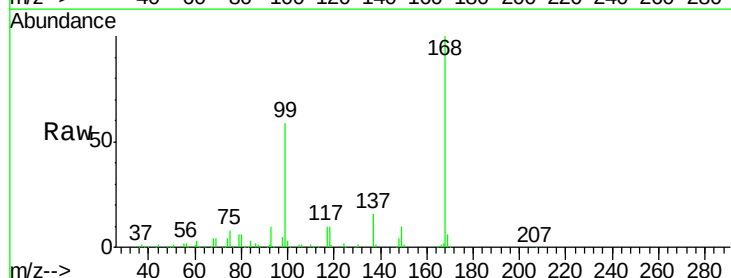
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#19

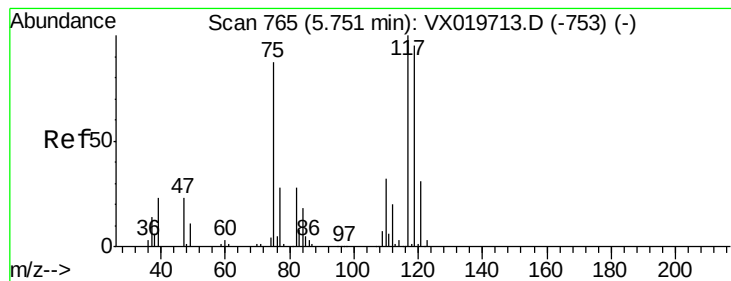
Tgt Ion:113 Resp: 153273
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.9 122.9
 192 21.1 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 4.971 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

Tgt Ion: 75 Resp: 22246
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.4#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.575 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#19

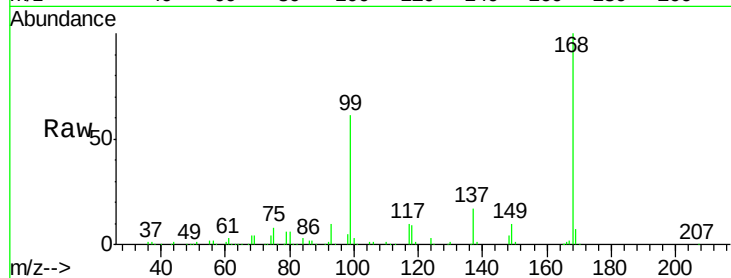
Tgt Ion:117 Resp: 28814

Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.2#

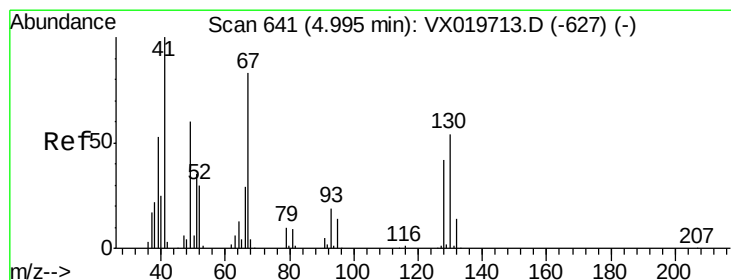
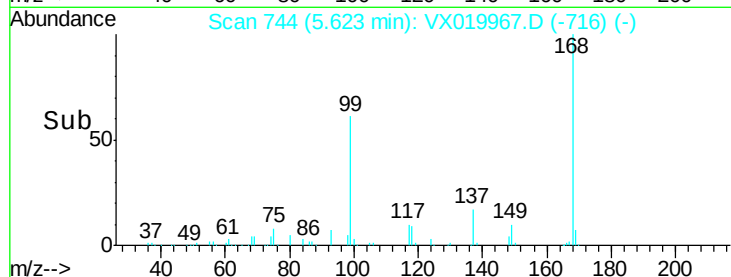
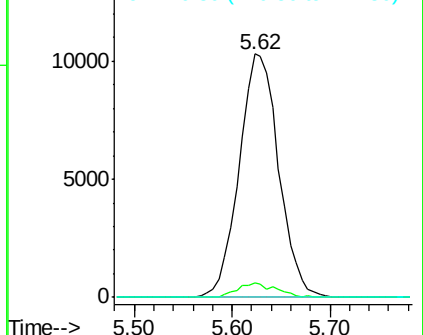
121 0.0 24.8 37.2#



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: 0.282 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Tgt Ion: 41 Resp: 700

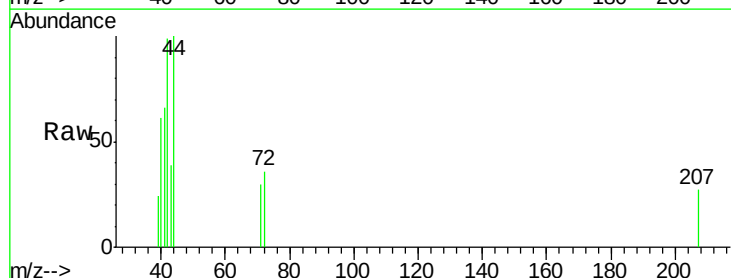
Ion Ratio Lower Upper

41 100

39 43.6 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

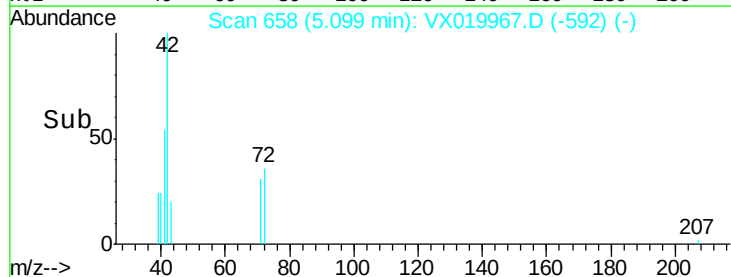
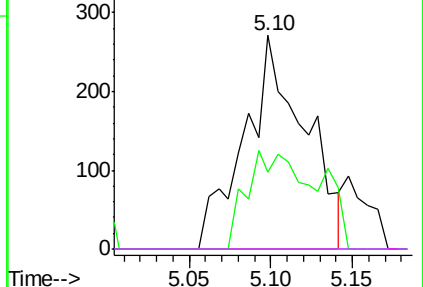


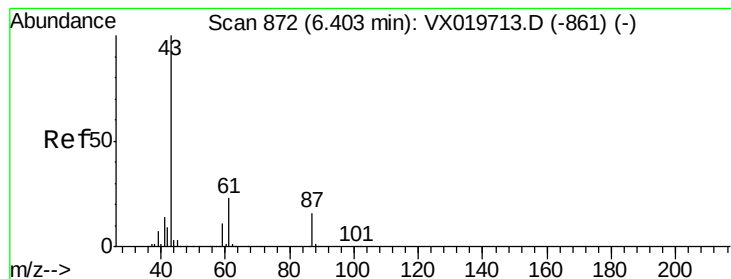
Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 3.689 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#19

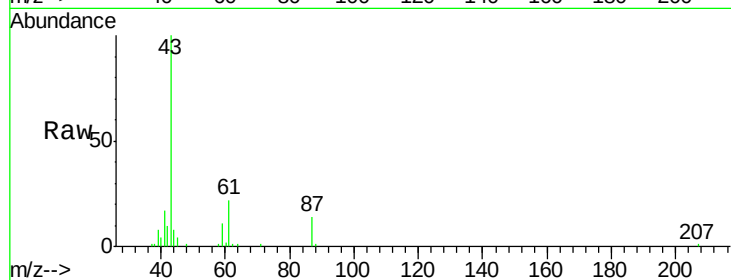
Tgt Ion: 43 Resp: 27101

Ion Ratio Lower Upper

43 100

61 21.7 18.2 27.4

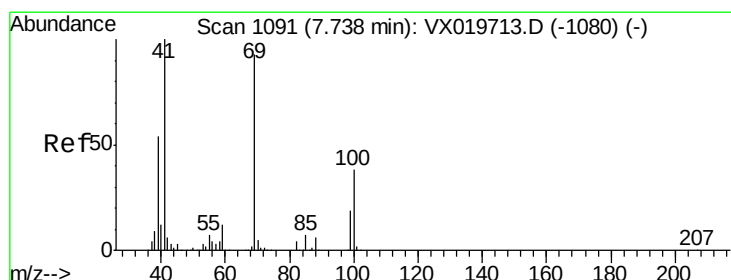
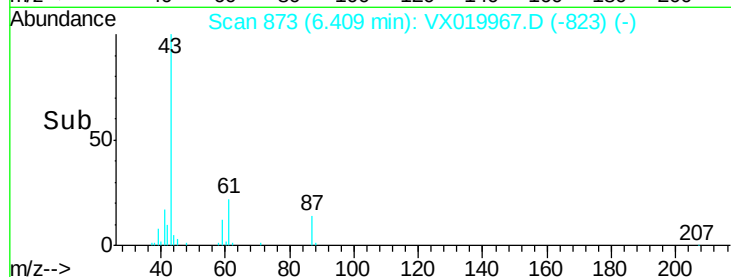
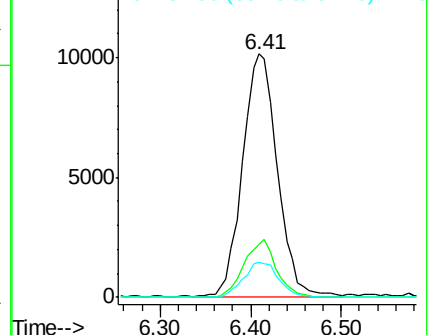
87 14.4 12.5 18.7



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: 2.051 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

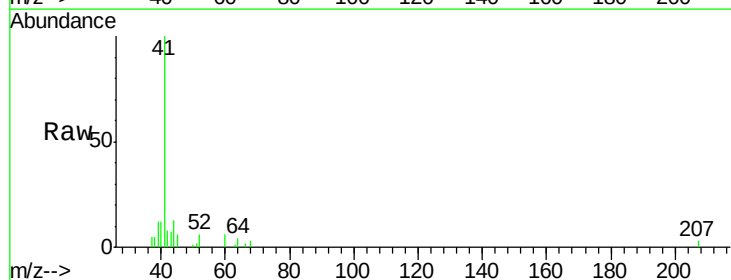
Tgt Ion: 41 Resp: 7408

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

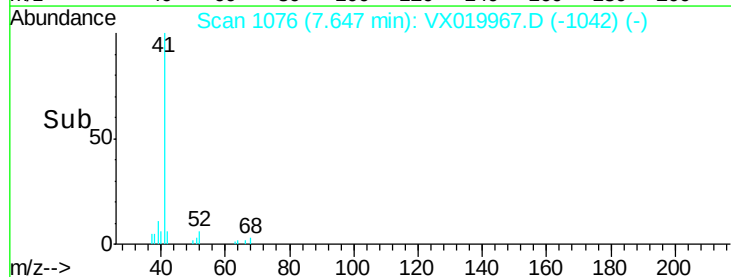
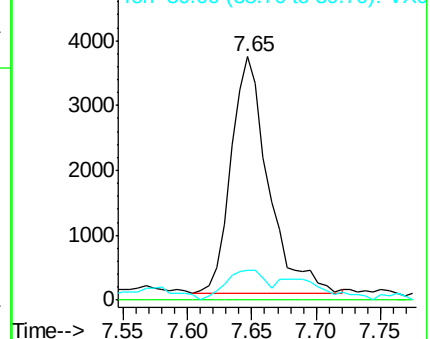
39 0.0 44.6 67.0#

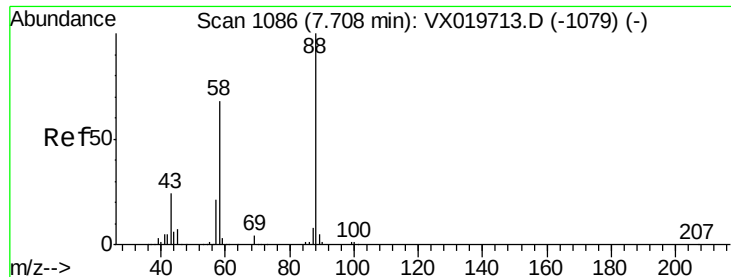


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.959 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#19

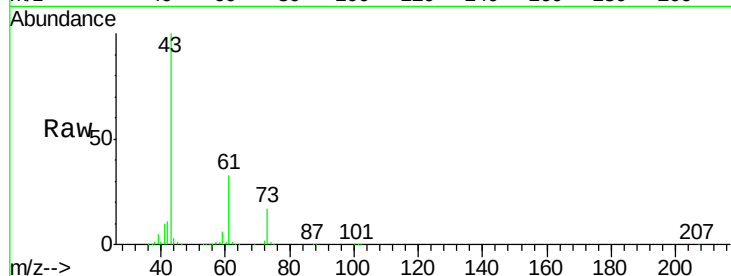
Tgt Ion: 88 Resp: 259

Ion Ratio Lower Upper

88 100

43 565620.1 23.2 34.8#

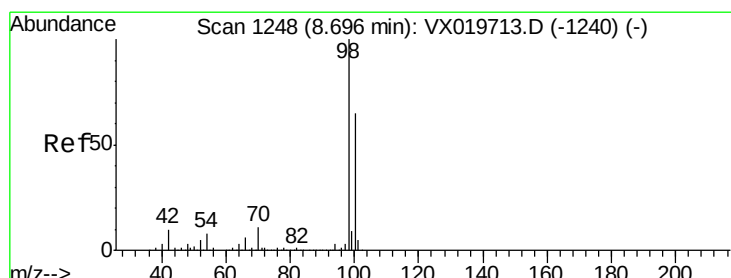
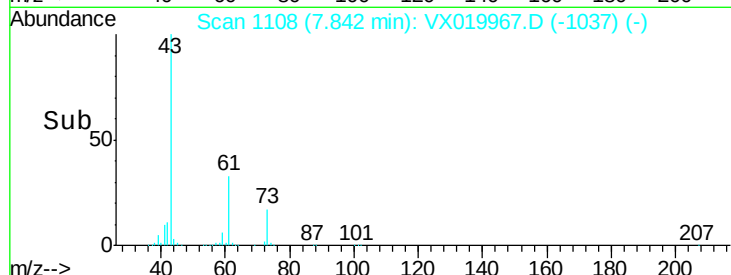
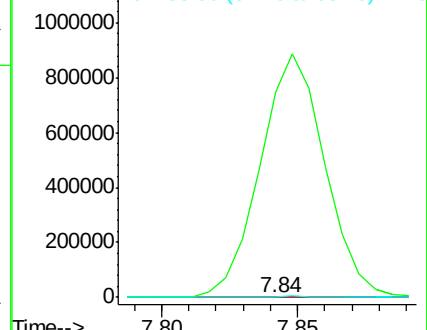
58 2907.3 55.0 82.4#



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: 50.634 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019967.D

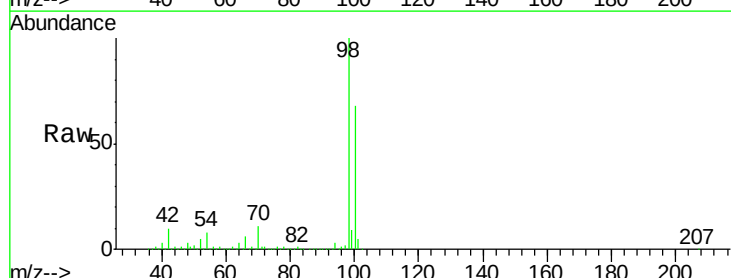
Acq: 13 Dec 2020 05:35

Tgt Ion: 98 Resp: 618689

Ion Ratio Lower Upper

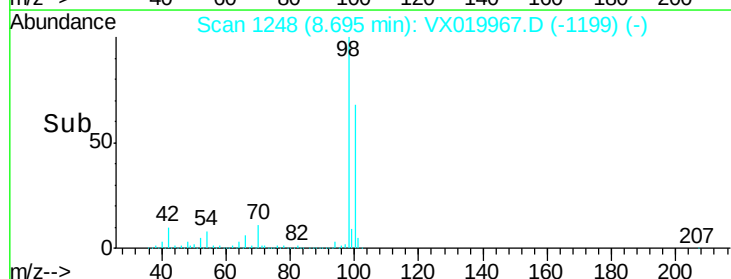
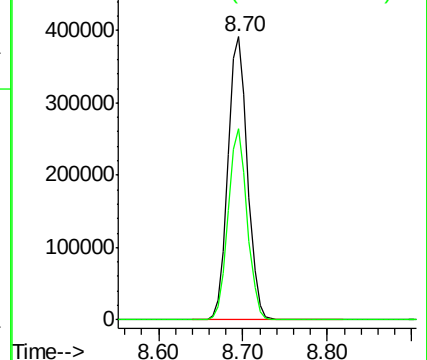
98 100

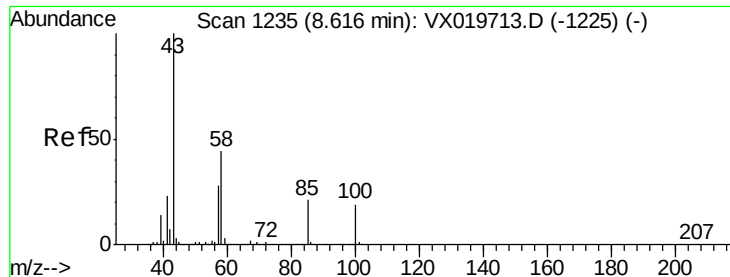
100 66.0 51.9 77.9



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: 22.549 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

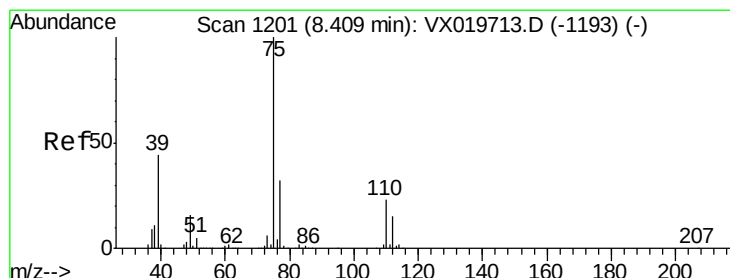
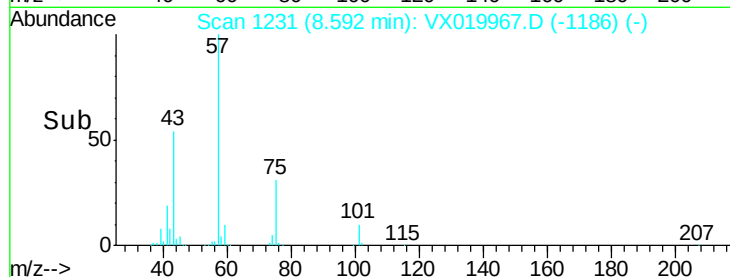
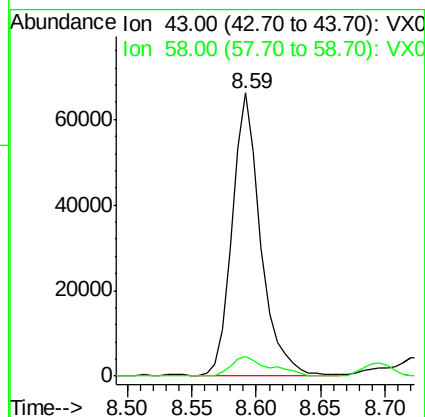
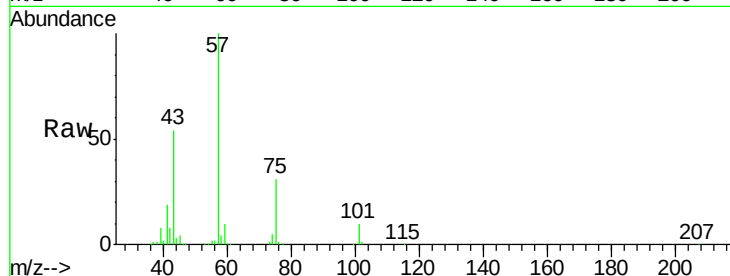
PB133565ZHE#19

Tgt Ion: 43 Resp: 101127

Ion Ratio Lower Upper

43 100

58 9.4 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 9.692 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

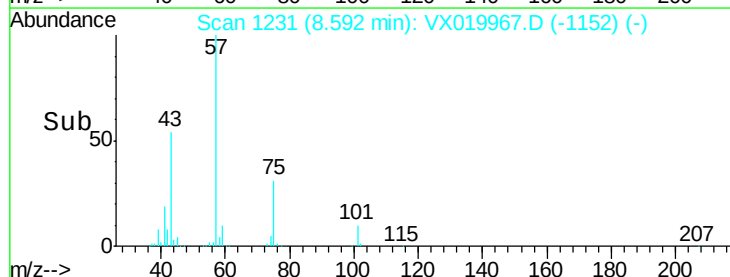
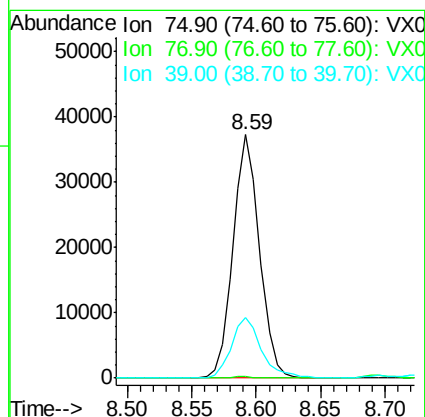
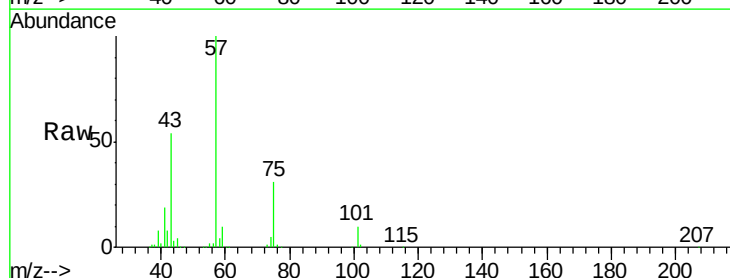
Tgt Ion: 75 Resp: 53495

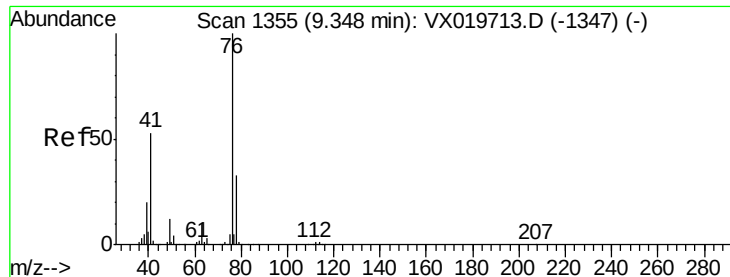
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 24.9 35.1 52.7#

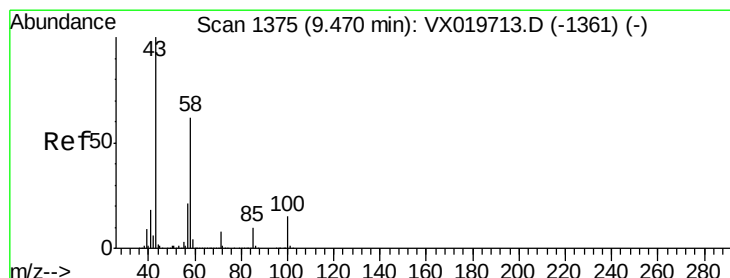
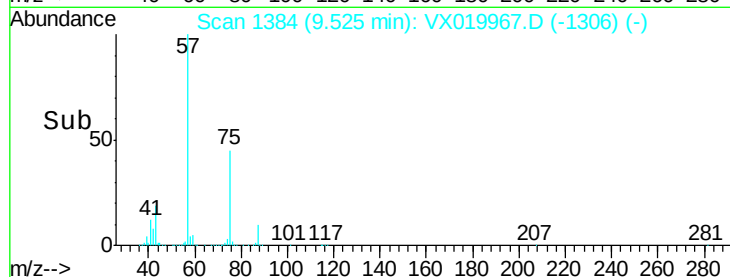
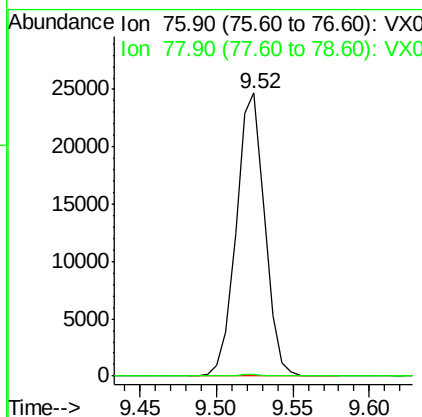
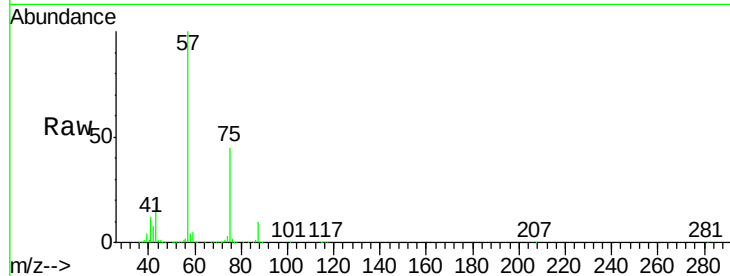




#57
 1,3-Dichloropropane
 Concen: 5.384 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

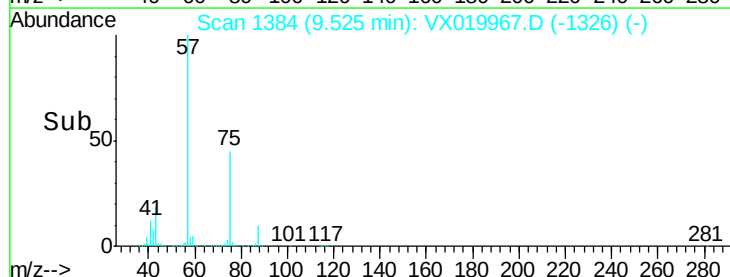
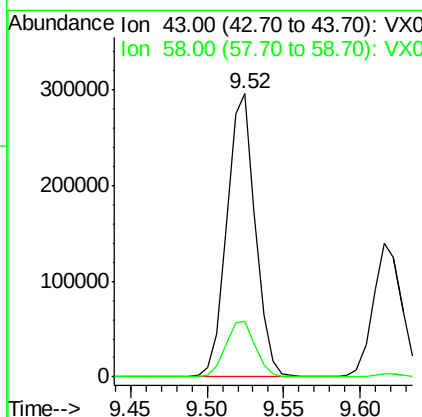
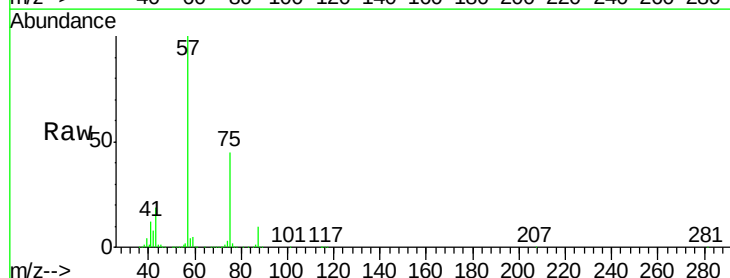
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#19

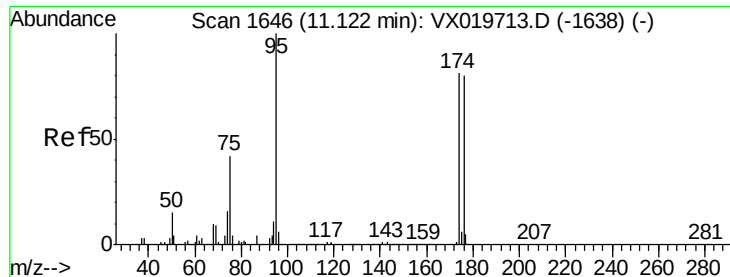
Tgt Ion: 76 Resp: 31672
 Ion Ratio Lower Upper
 76 100
 78 0.5 26.2 39.2#



#59
 2-Hexanone
 Concen: 108.908 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

Tgt Ion: 43 Resp: 378598
 Ion Ratio Lower Upper
 43 100
 58 20.7 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 47.777 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#19

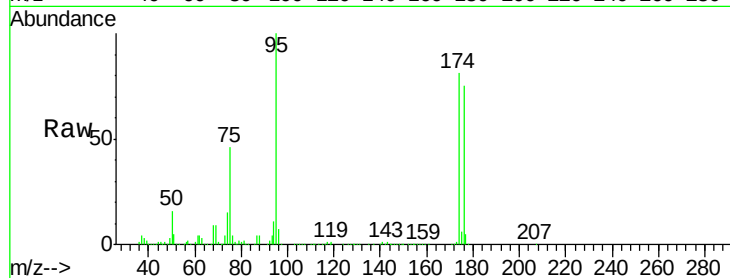
Tgt Ion: 95 Resp: 222193

Ion Ratio Lower Upper

95 100

174 77.5 0.0 154.6

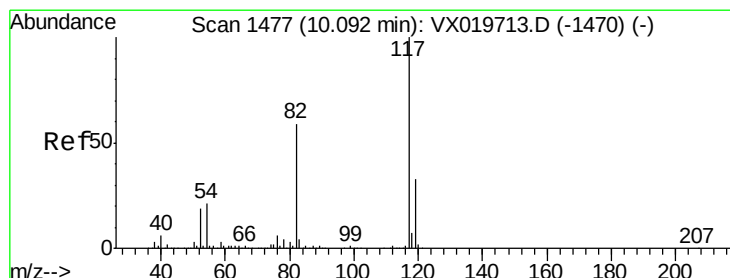
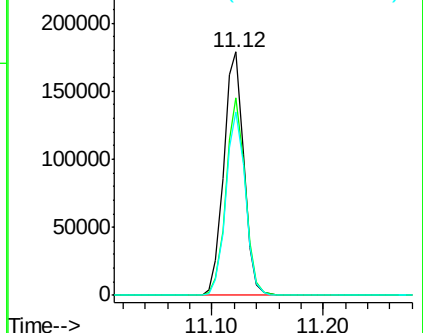
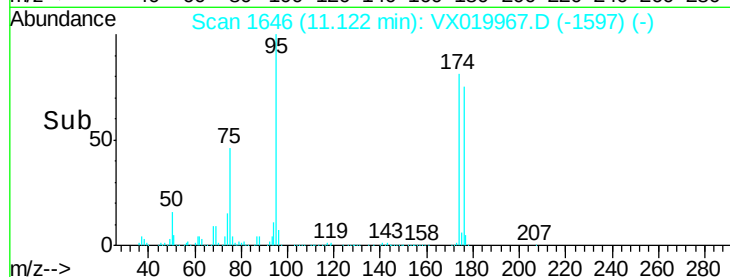
176 73.8 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019967.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX019967.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX019967.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

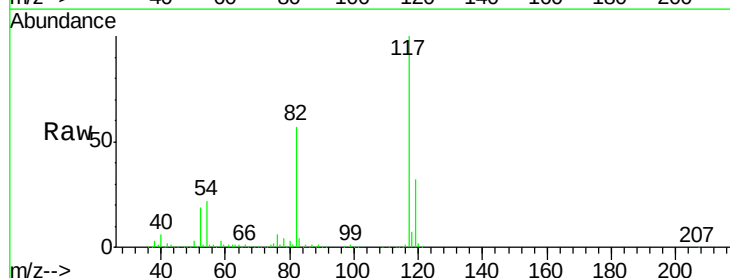
Tgt Ion: 117 Resp: 470616

Ion Ratio Lower Upper

117 100

82 57.4 47.4 71.2

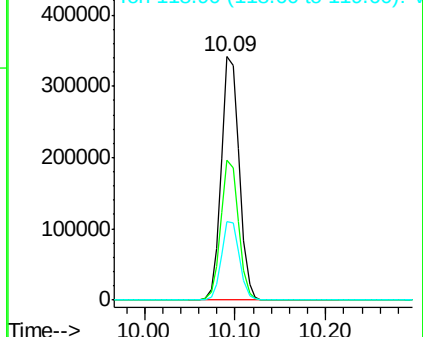
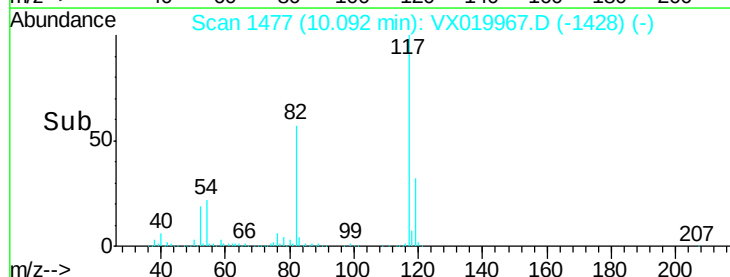
119 32.3 26.6 39.8

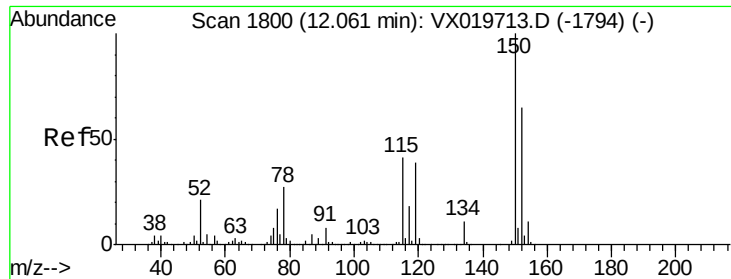


Abundance Ion 116.90 (116.60 to 117.60): VX019967.D (-1428) (-)

Ion 82.00 (81.70 to 82.70): VX019967.D (-1428) (-)

Ion 118.90 (118.60 to 119.60): VX019967.D (-1428) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019967.D

Acq: 13 Dec 2020 05:35

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#19

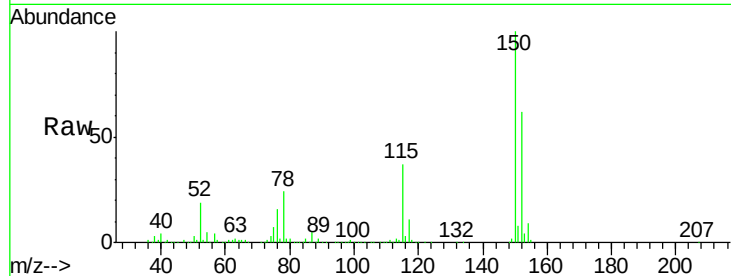
Tgt Ion:152 Resp: 206334

Ion Ratio Lower Upper

152 100

115 60.6 41.1 123.3

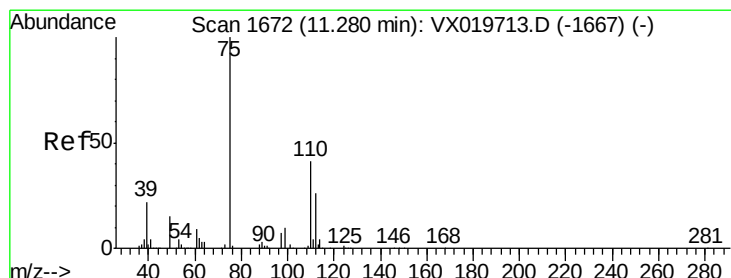
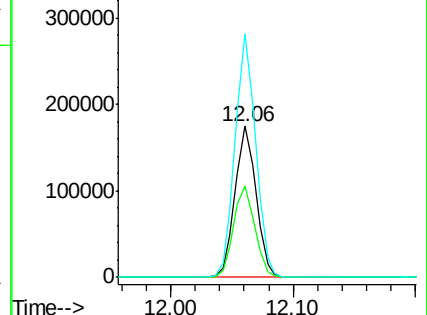
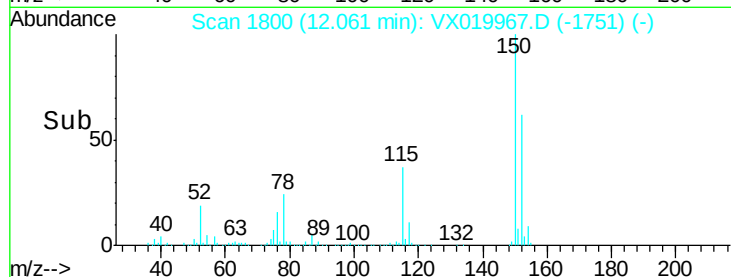
150 158.5 0.0 349.0



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: 22.837 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019967.D

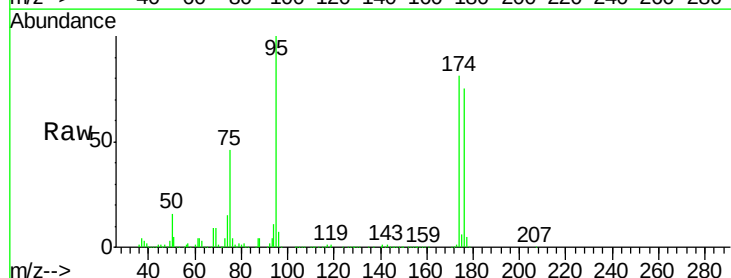
Acq: 13 Dec 2020 05:35

Tgt Ion: 75 Resp: 105685

Ion Ratio Lower Upper

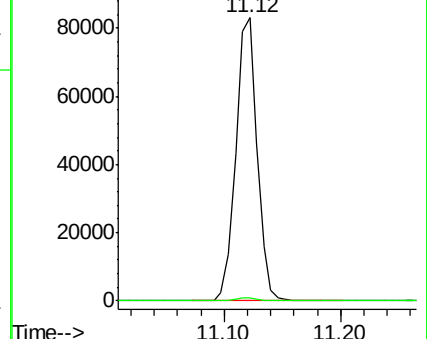
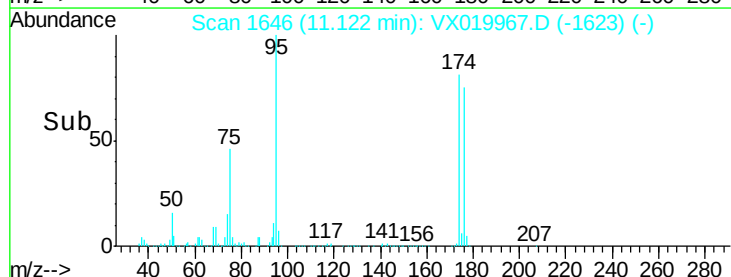
75 100

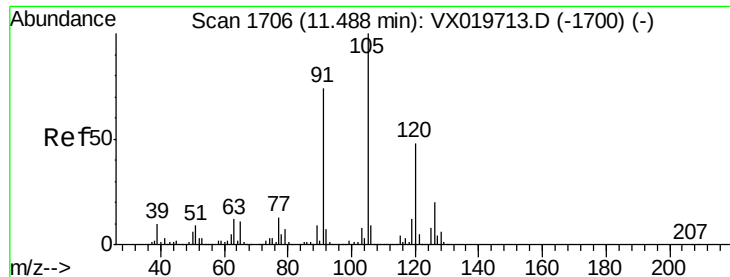
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

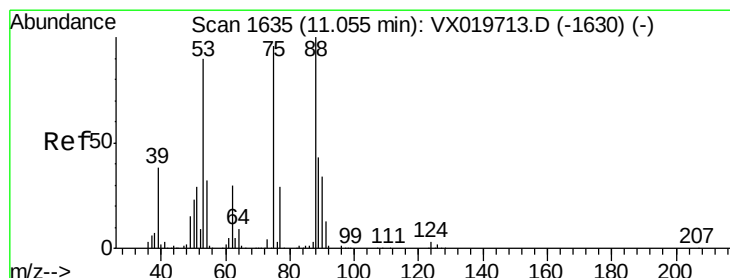
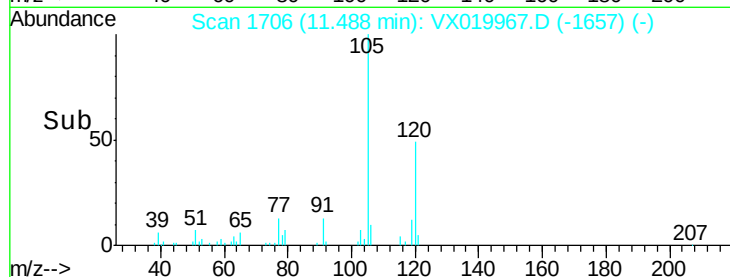
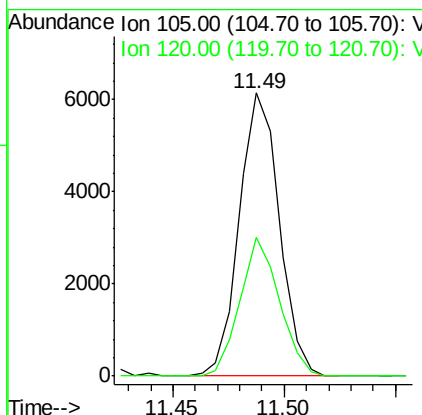
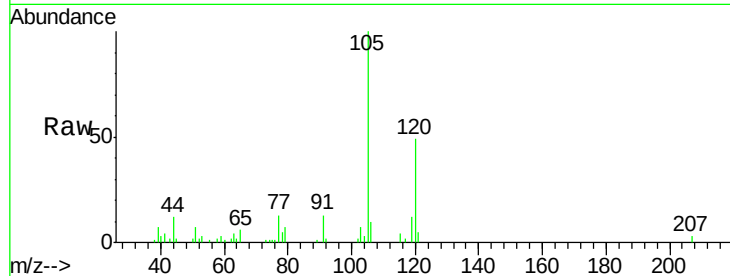




#80
 1,3,5-Trimethylbenzene
 Concen: 0.649 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#19

Tgt Ion:105 Resp: 7717
 Ion Ratio Lower Upper
 105 100
 120 48.2 23.8 71.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.019 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019967.D
 Acq: 13 Dec 2020 05:35

Tgt Ion: 75 Resp: 105685
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

