

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019964.D
 Acq On : 13 Dec 2020 04:25
 Operator : JC/MD
 Sample : PB133565ZHE#16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#16

Quant Time: Dec 14 08:24:39 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	304420	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	507215	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	470910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204581	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	195627	48.89	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.78%	
35) Dibromofluoromethane		5.46	113	156452	47.73	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.46%	
50) Toluene-d8		8.70	98	628804	50.24	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.48%	
62) 4-Bromofluorobenzene		11.12	95	219243	46.03	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.06%	

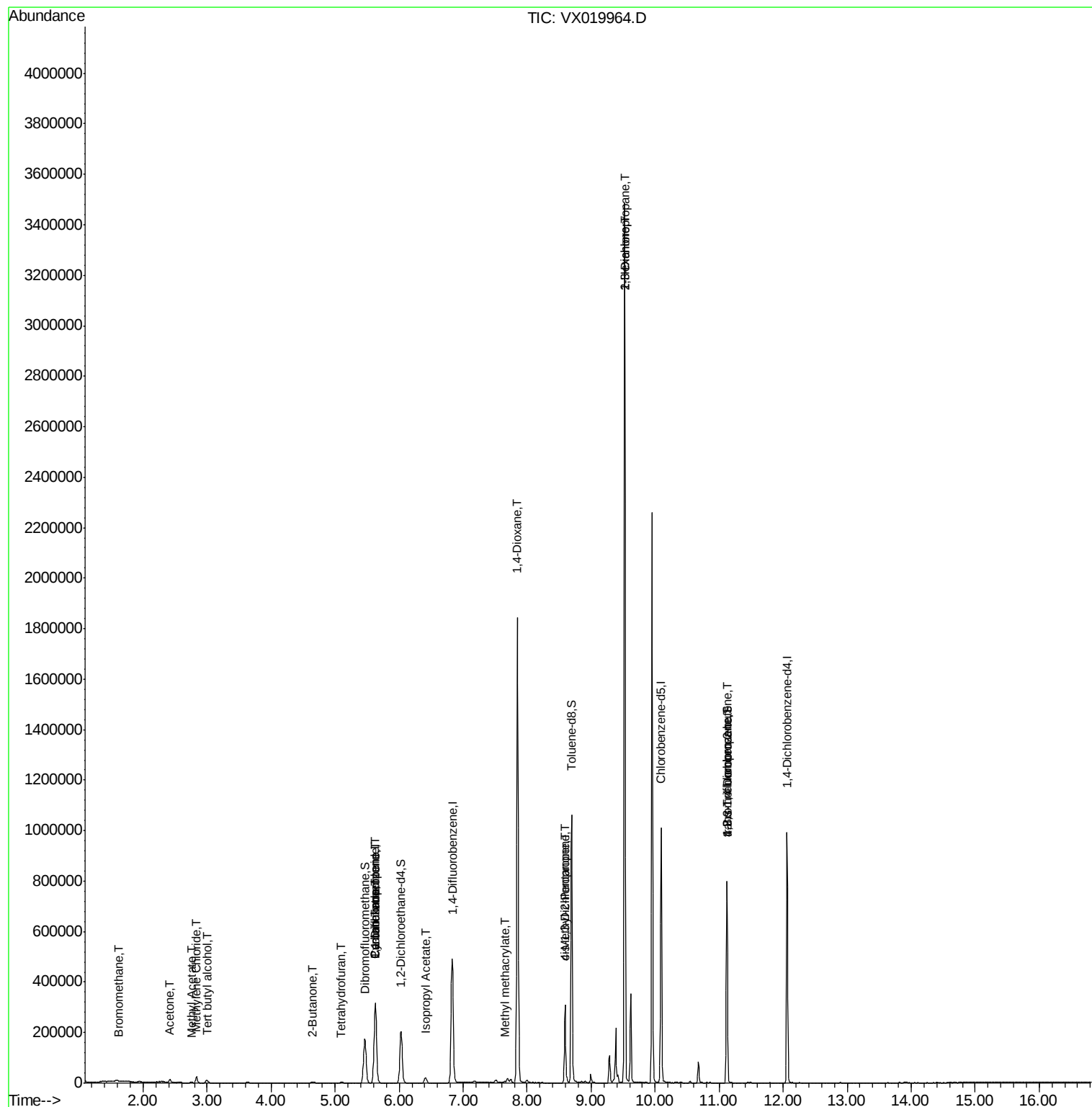
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	573	0.499	ug/l #	47
11) Tert butyl alcohol	2.99	59	7134	6.124	ug/l #	79
16) Acetone	2.42	43	12667	8.423	ug/l	97
18) Methyl Acetate	2.75	43	4163	1.131	ug/l	90
20) Methylene Chloride	2.84	84	11674	2.036	ug/l	97
25) 2-Butanone	4.64	43	3583	1.551	ug/l	97
29) Tetrahydrofuran	5.09	42	1892	1.271	ug/l	96
31) Cyclohexane	5.63	56	5982	1.202	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22980	5.014	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29933	6.669	ug/l #	17
43) Isopropyl Acetate	6.41	43	28404	3.775	ug/l	98
48) Methyl methacrylate	7.65	41	7543	2.039	ug/l #	10
49) 1,4-Dioxane	7.84	88	304	3.391	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	96869	21.089	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	50864	8.998	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	31314	5.197	ug/l #	43
59) 2-Hexanone	9.52	43	379181	106.496	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	107660	23.464	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107660	67.829	ug/l #	12

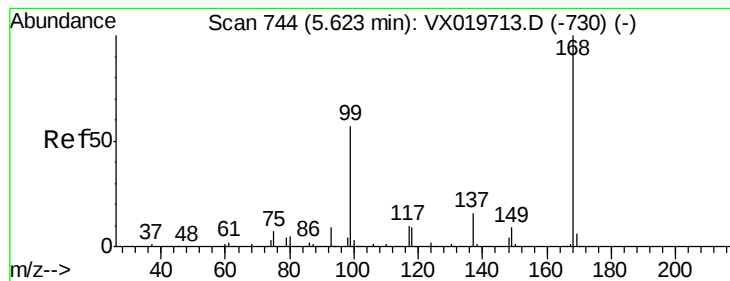
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

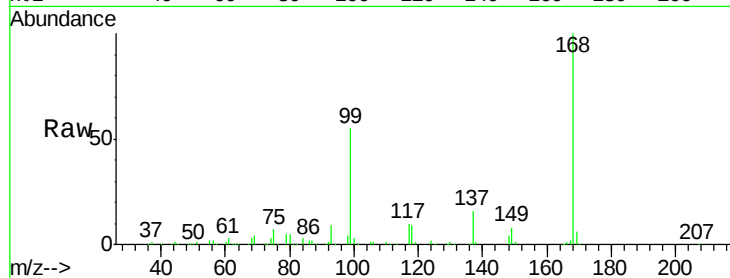
PB133565ZHE#16

Tgt Ion:168 Resp: 304420

Ion Ratio Lower Upper

168 100

99 55.2 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

120000

100000

80000

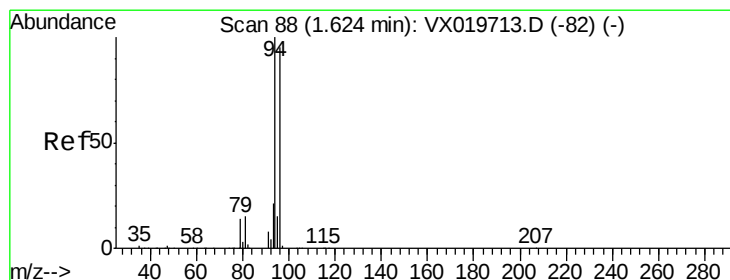
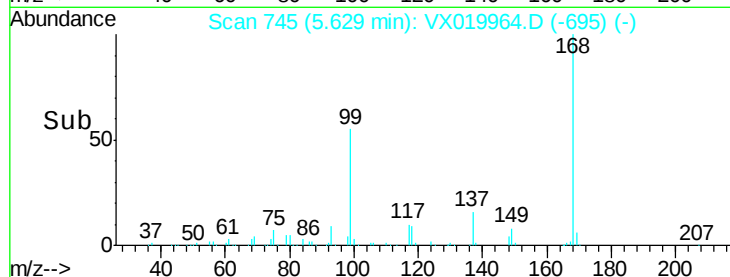
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.499 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019964.D

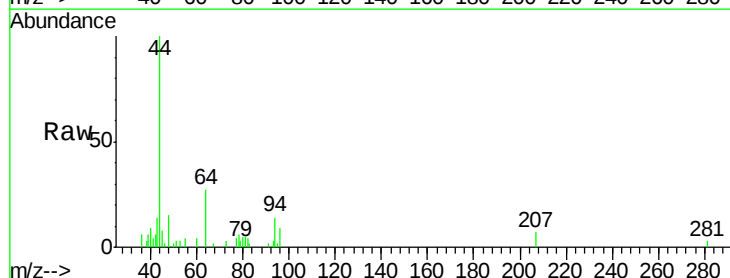
Acq: 13 Dec 2020 04:25

Tgt Ion: 94 Resp: 573

Ion Ratio Lower Upper

94 100

96 43.6 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

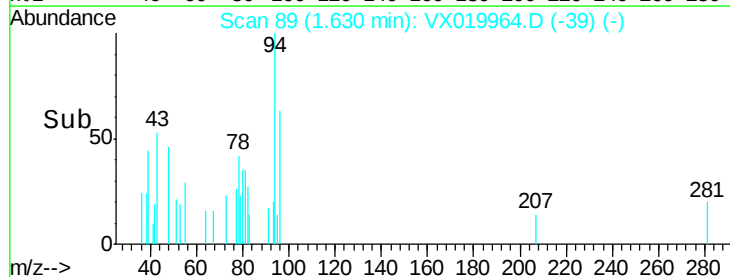
300

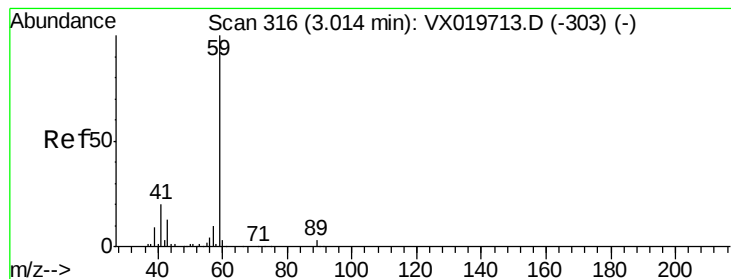
200

100

0

Time-->



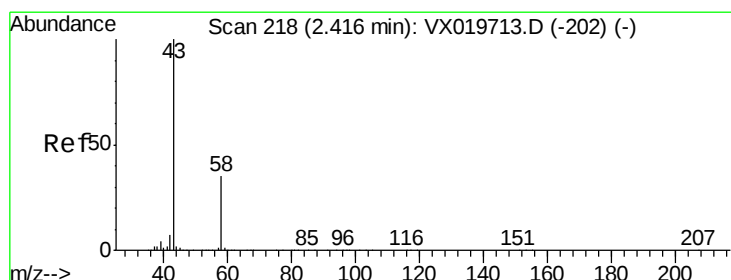
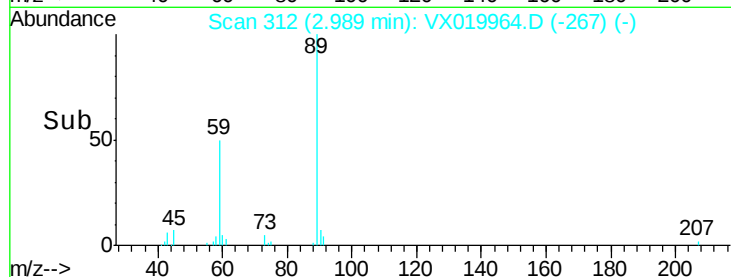
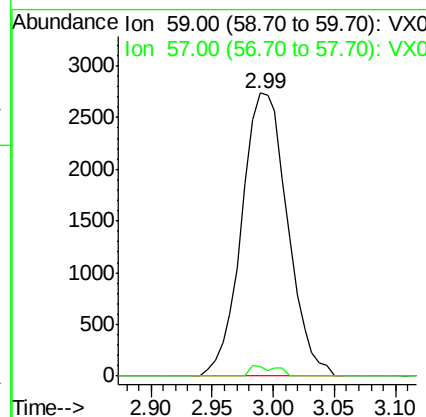
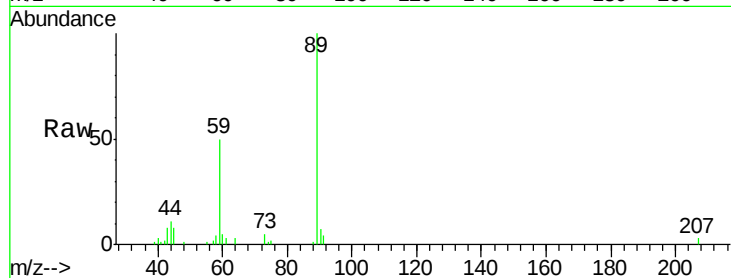


#11

Tert butyl alcohol
 Concen: 6.124 ug/l
 RT: 2.99 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX019964.D
 Acq: 13 Dec 2020 04:25

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133565ZHE#16

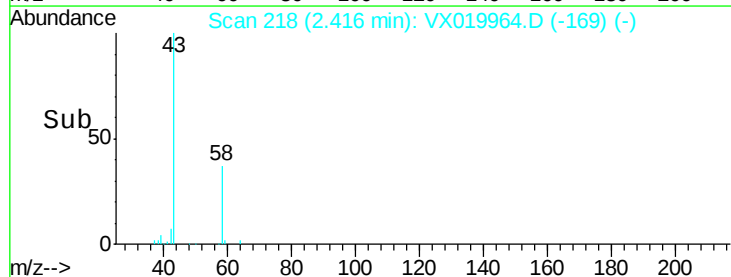
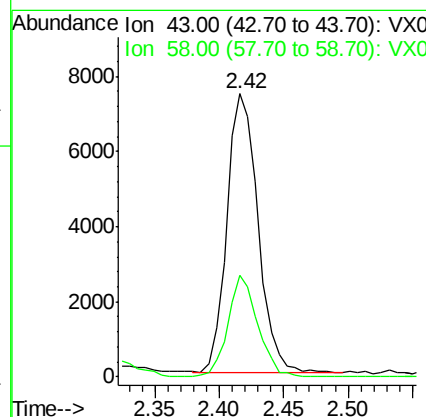
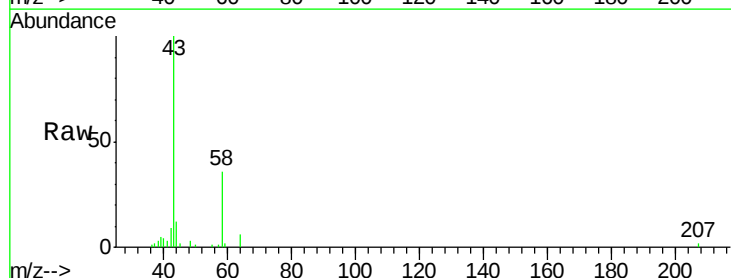
Tgt Ion: 59 Resp: 7134
 Ion Ratio Lower Upper
 59 100
 57 2.0 7.8 11.8#

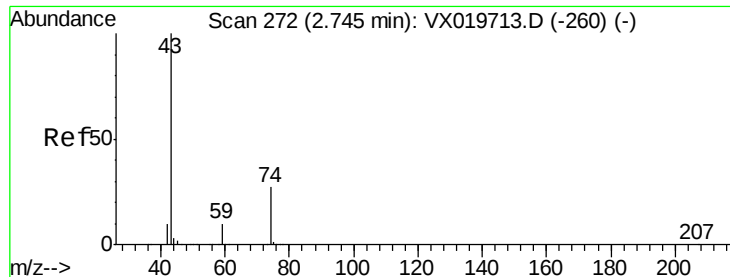


#16

Acetone
 Concen: 8.423 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. -0.00 min
 Lab File: VX019964.D
 Acq: 13 Dec 2020 04:25

Tgt Ion: 43 Resp: 12667
 Ion Ratio Lower Upper
 43 100
 58 36.4 27.8 41.8

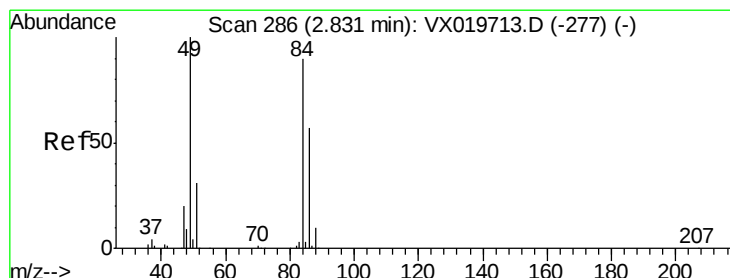
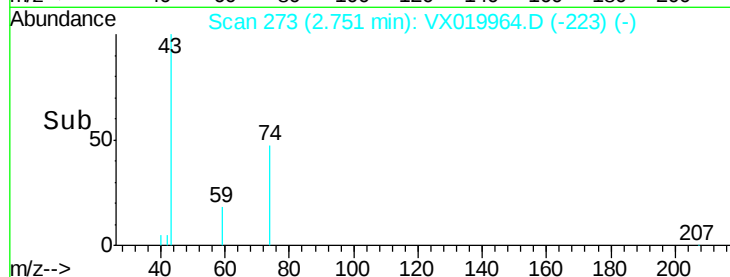
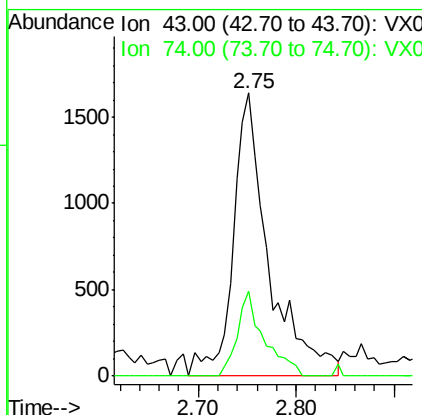
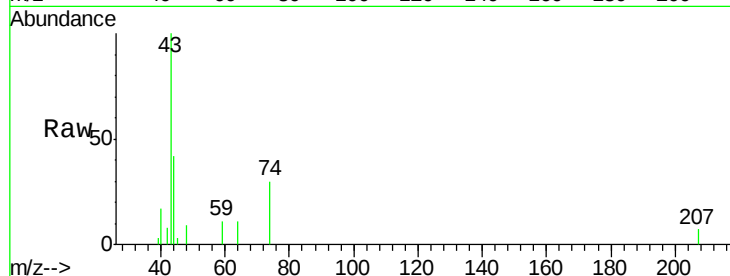




#18
Methyl Acetate
Concen: 1.131 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019964.D
Acq: 13 Dec 2020 04:25

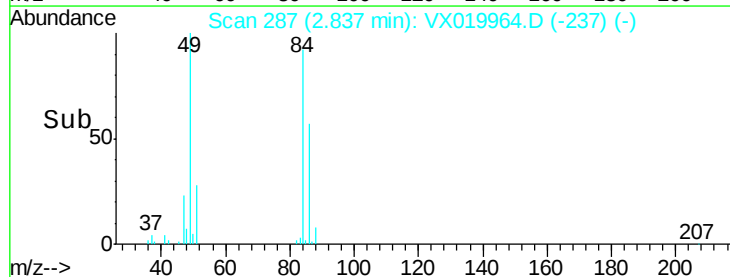
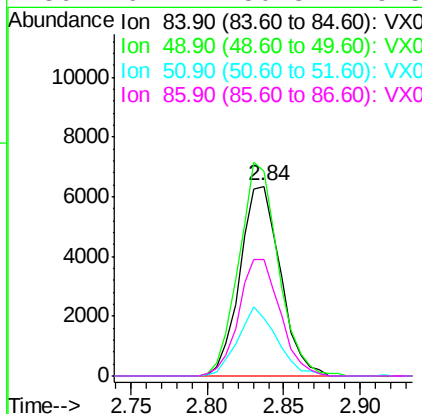
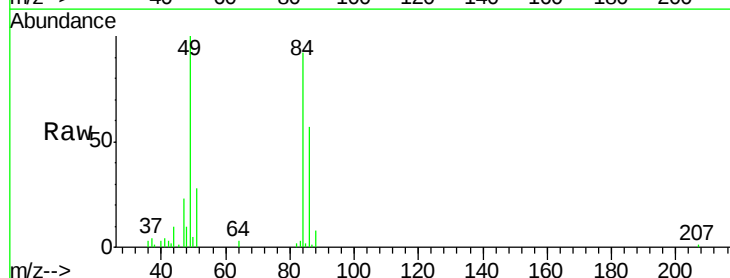
Instrument :
MSVOA_X
ClientSampleId :
PB133565ZHE#16

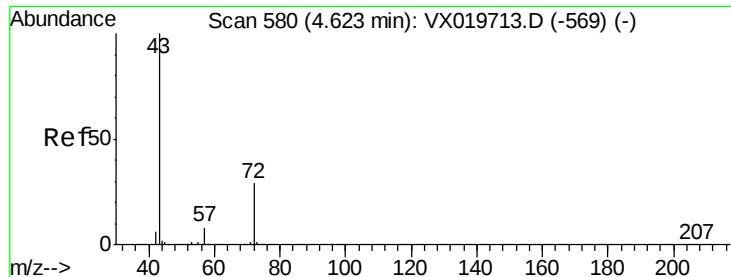
Tgt Ion: 43 Resp: 4163
Ion Ratio Lower Upper
43 100
74 22.3 21.9 32.9



#20
Methylene Chloride
Concen: 2.036 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019964.D
Acq: 13 Dec 2020 04:25

Tgt Ion: 84 Resp: 11674
Ion Ratio Lower Upper
84 100
49 108.3 88.6 132.8
51 30.3 27.0 40.6
86 61.4 50.3 75.5





#25

2-Butanone

Concen: 1.551 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

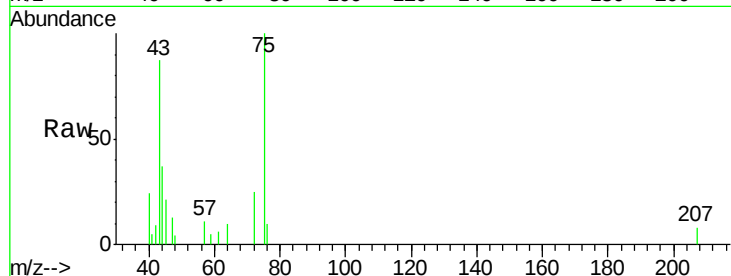
PB133565ZHE#16

Tgt Ion: 43 Resp: 3583

Ion Ratio Lower Upper

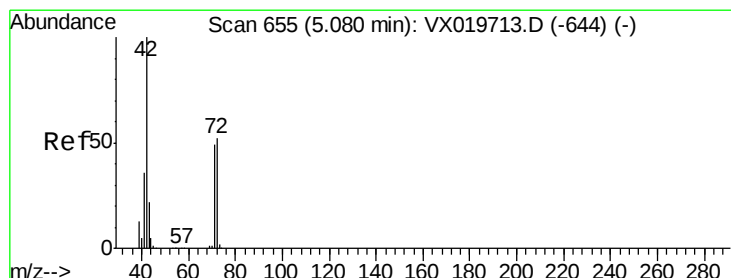
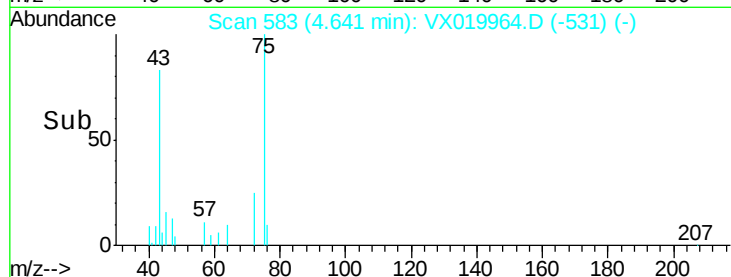
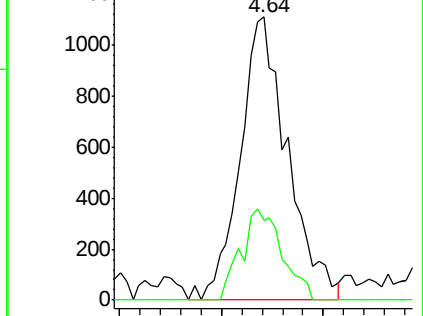
43 100

72 28.2 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: 1.271 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

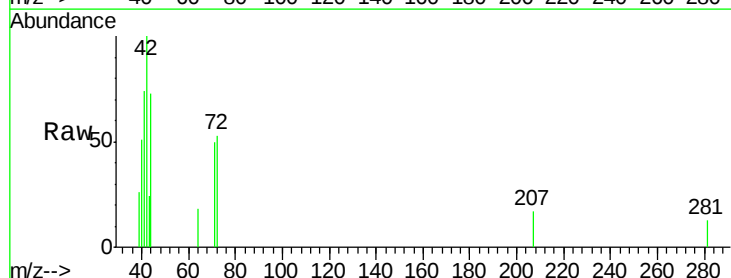
Tgt Ion: 42 Resp: 1892

Ion Ratio Lower Upper

42 100

72 49.3 41.7 62.5

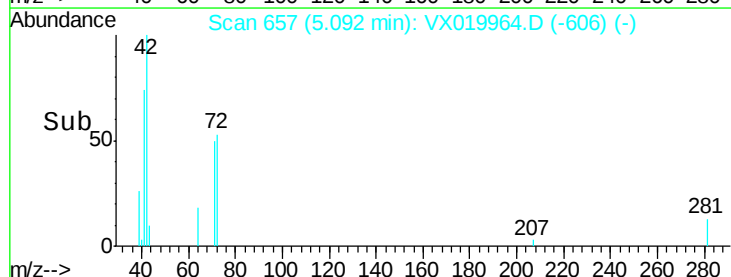
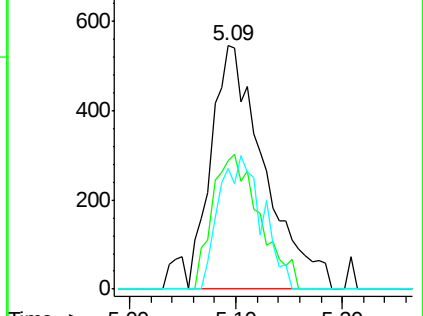
71 44.6 38.4 57.6

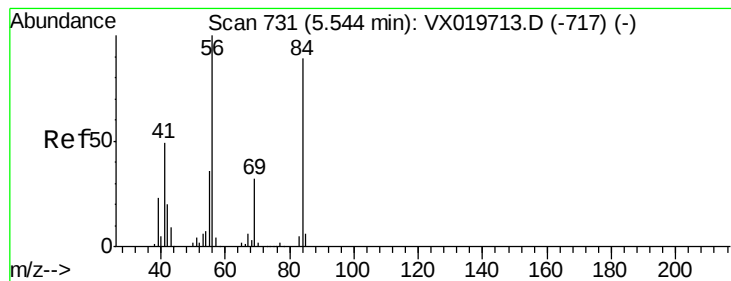


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.202 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

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ClientSampleId :

PB133565ZHE#16

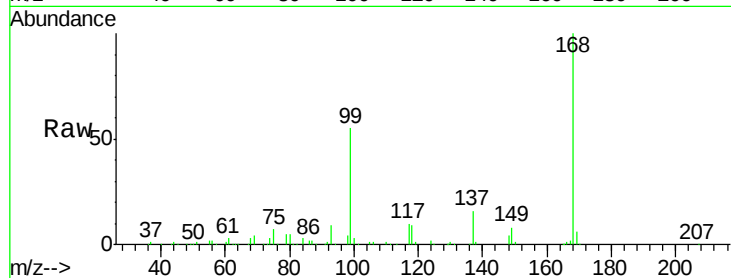
Tgt Ion: 56 Resp: 5982

Ion Ratio Lower Upper

56 100

69 184.6 25.3 37.9#

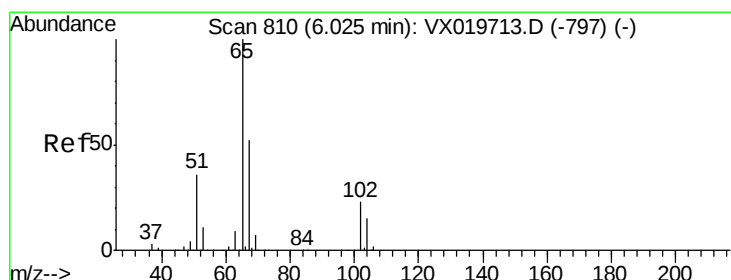
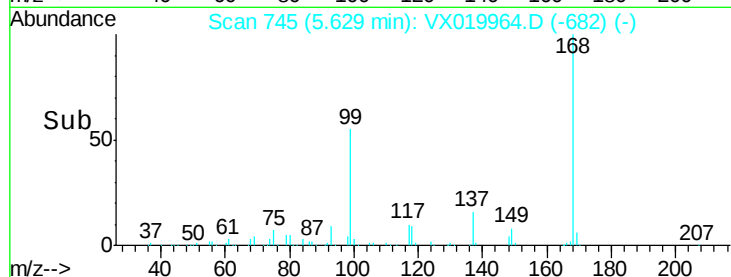
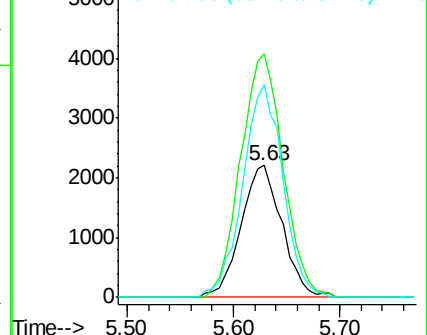
84 161.4 71.4 107.0#



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



#33

1,2-Dichloroethane-d4

Concen: 48.895 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019964.D

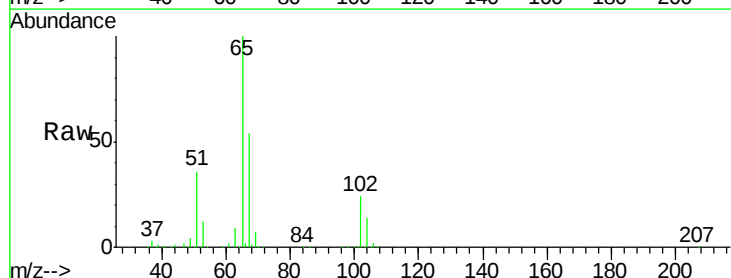
Acq: 13 Dec 2020 04:25

Tgt Ion: 65 Resp: 195627

Ion Ratio Lower Upper

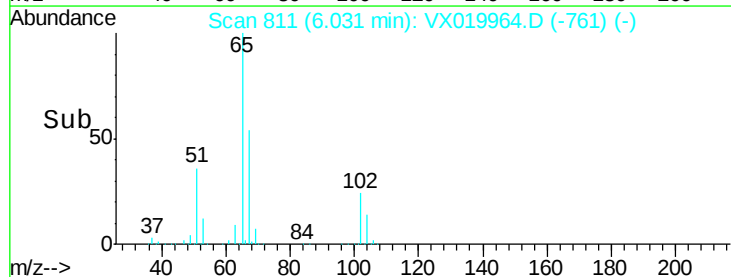
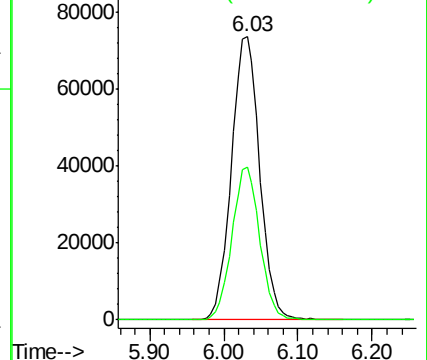
65 100

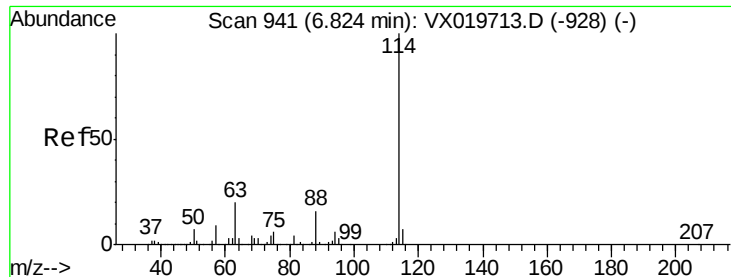
67 52.9 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

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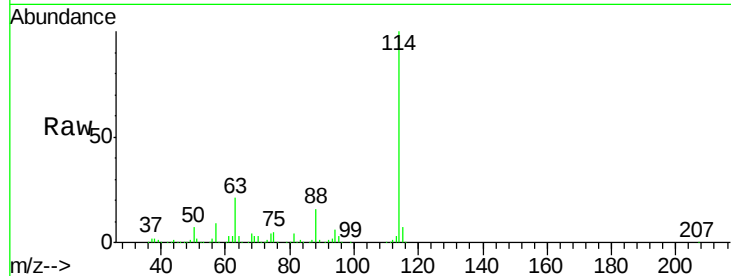
Tgt Ion:114 Resp: 507215

Ion Ratio Lower Upper

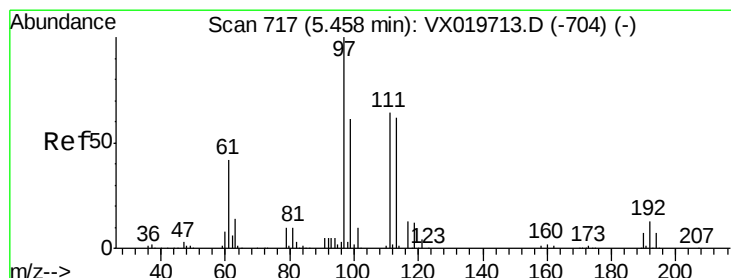
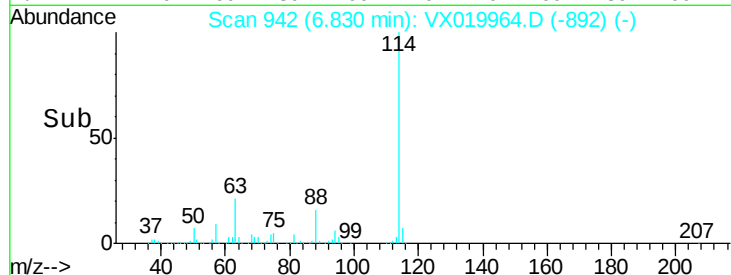
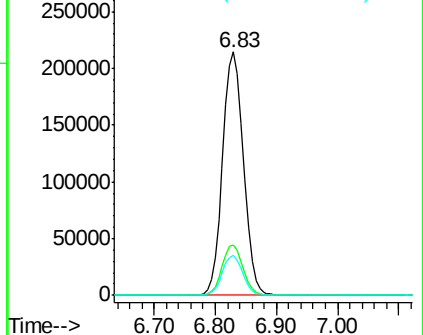
114 100

63 20.6 0.0 40.8

88 16.4 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.727 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.00 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

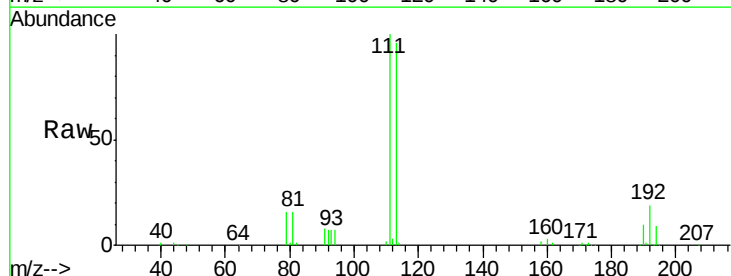
Tgt Ion:113 Resp: 156452

Ion Ratio Lower Upper

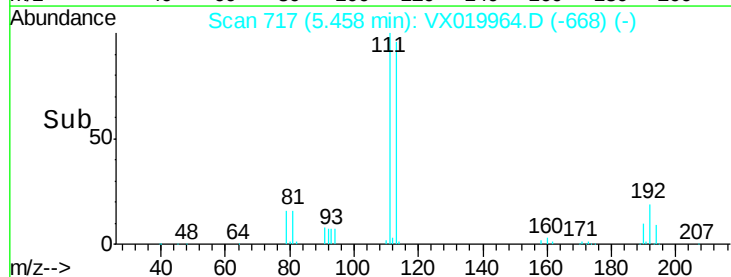
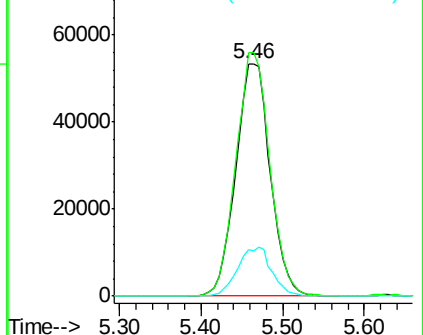
113 100

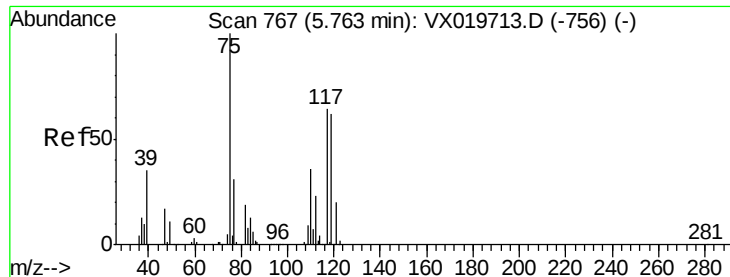
111 103.4 81.9 122.9

192 20.7 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: 5.014 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#16

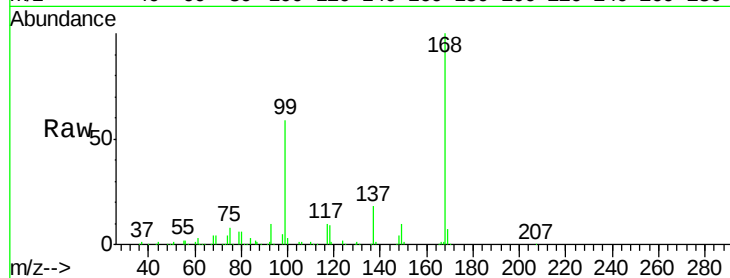
Tgt Ion: 75 Resp: 22980

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.4#

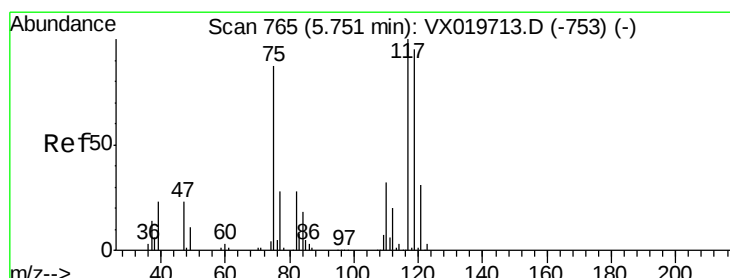
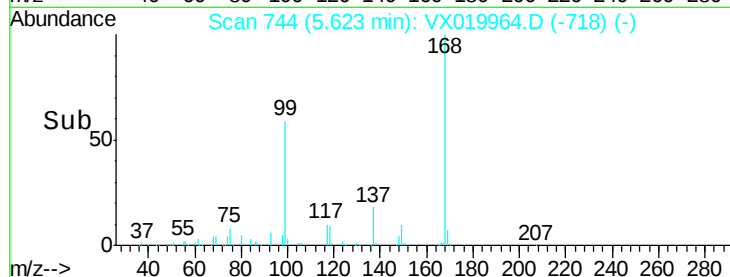
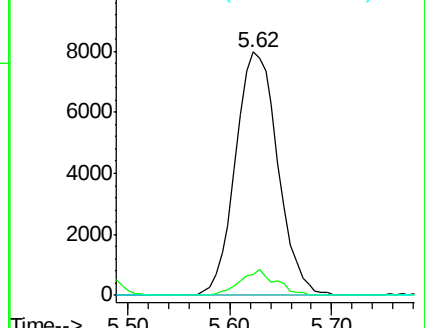
77 0.0 25.3 37.9#



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: 6.669 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

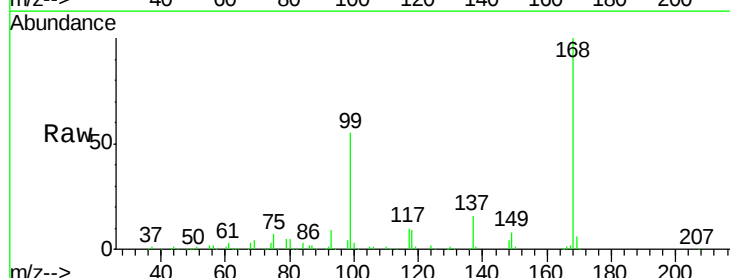
Tgt Ion: 117 Resp: 29933

Ion Ratio Lower Upper

117 100

119 6.6 76.2 114.2#

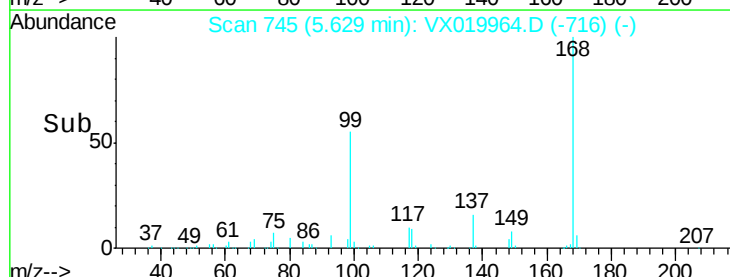
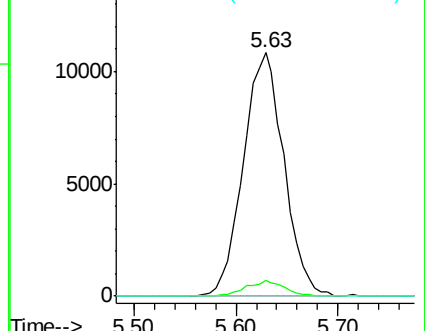
121 0.0 24.8 37.2#

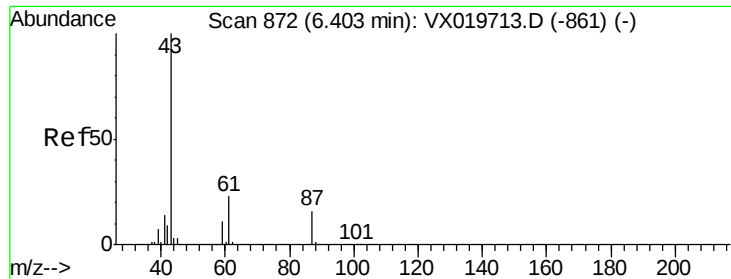


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 3.775 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#16

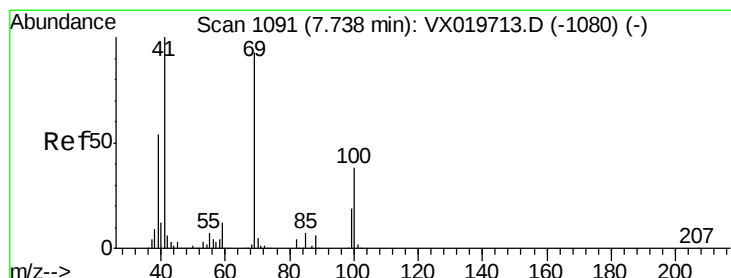
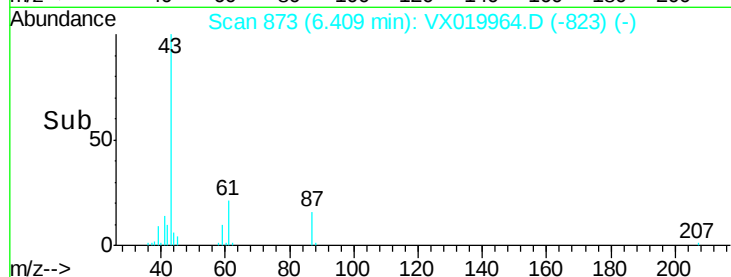
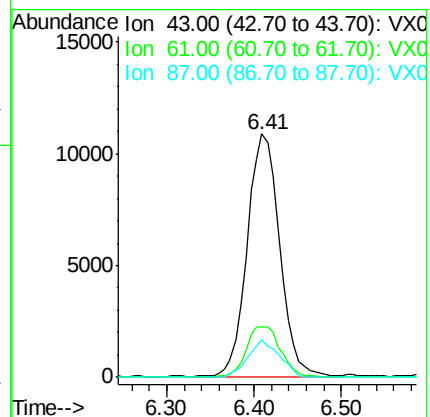
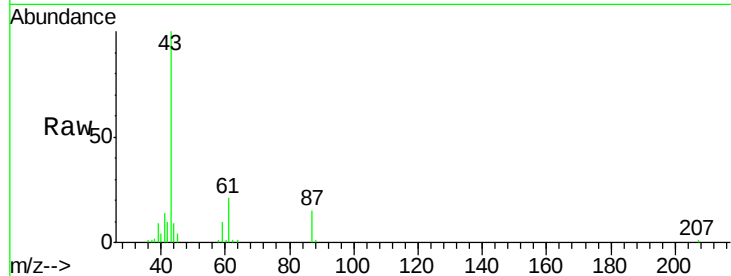
Tgt Ion: 43 Resp: 28404

Ion Ratio Lower Upper

43 100

61 21.8 18.2 27.4

87 14.8 12.5 18.7



#48

Methyl methacrylate

Concen: 2.039 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

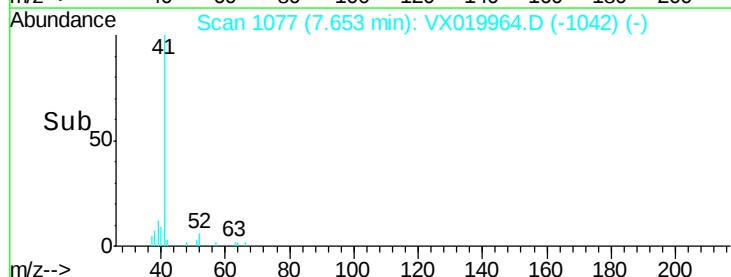
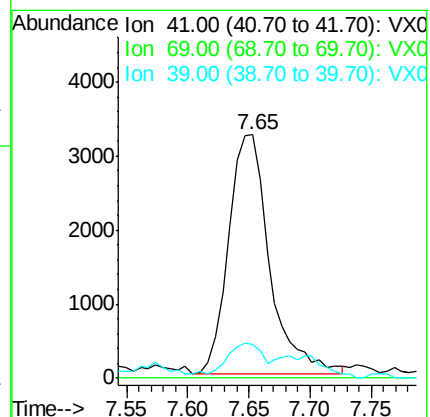
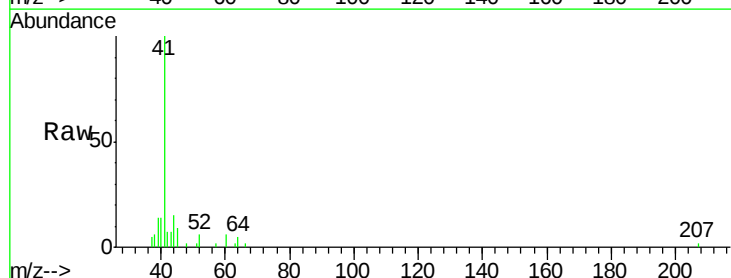
Tgt Ion: 41 Resp: 7543

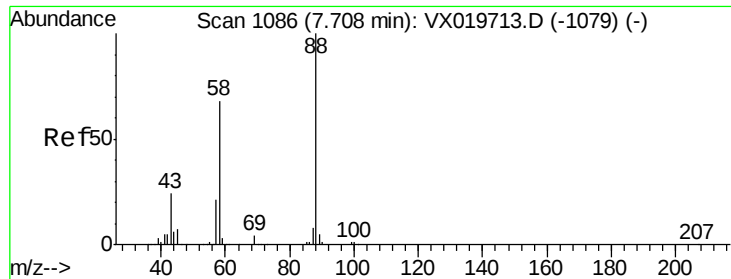
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 3.391 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#16

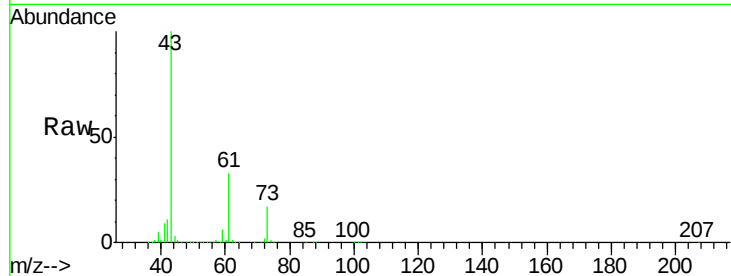
Tgt Ion: 88 Resp: 304

Ion Ratio Lower Upper

88 100

43 512474.3 23.2 34.8#

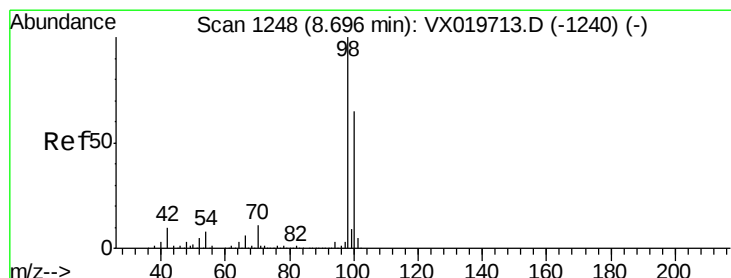
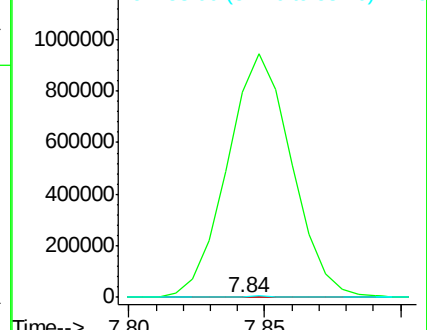
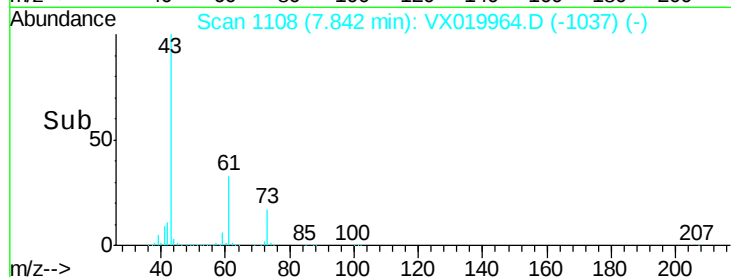
58 2603.6 55.0 82.4#



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: 50.245 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019964.D

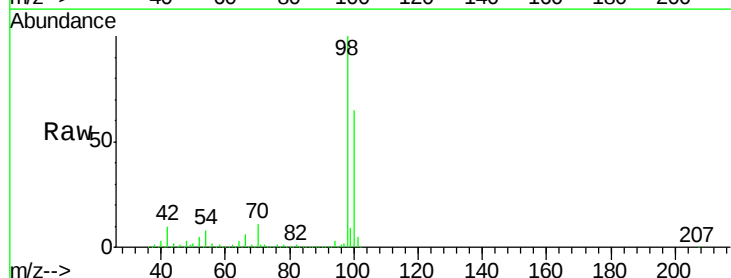
Acq: 13 Dec 2020 04:25

Tgt Ion: 98 Resp: 628804

Ion Ratio Lower Upper

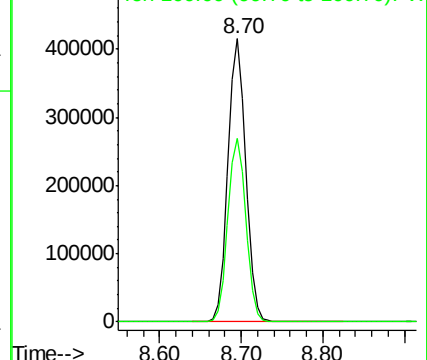
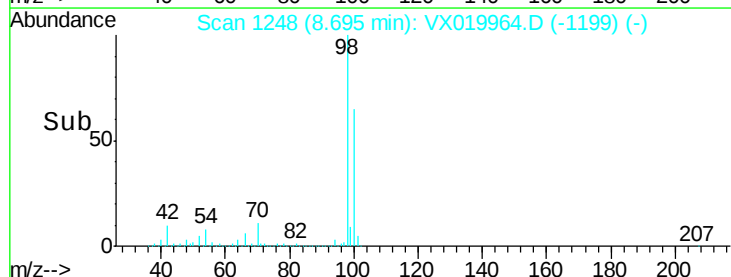
98 100

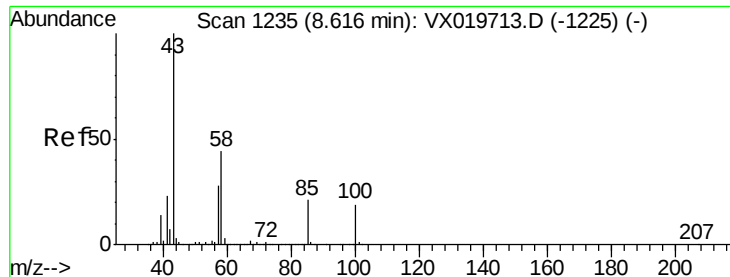
100 65.7 51.9 77.9



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: 21.089 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

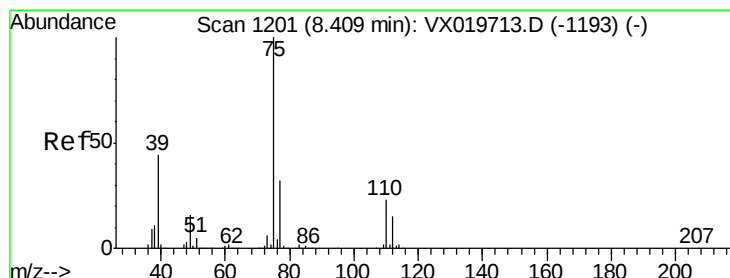
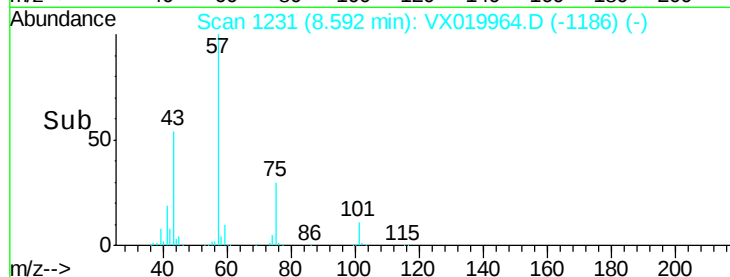
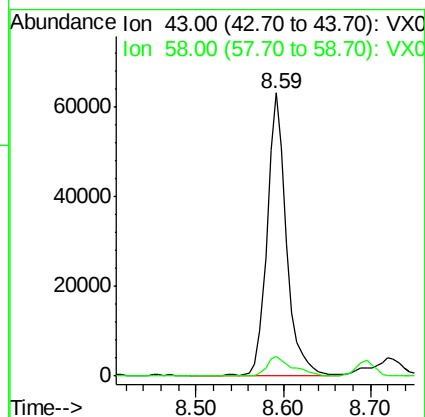
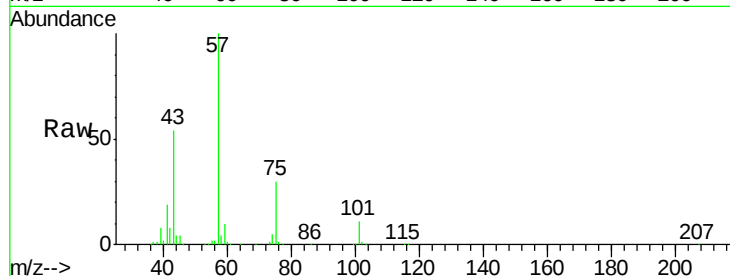
PB133565ZHE#16

Tgt Ion: 43 Resp: 96869

Ion Ratio Lower Upper

43 100

58 9.3 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 8.998 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

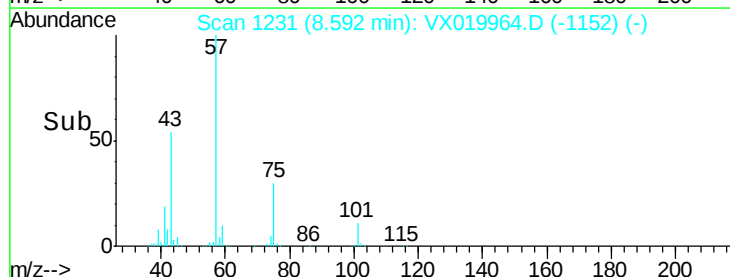
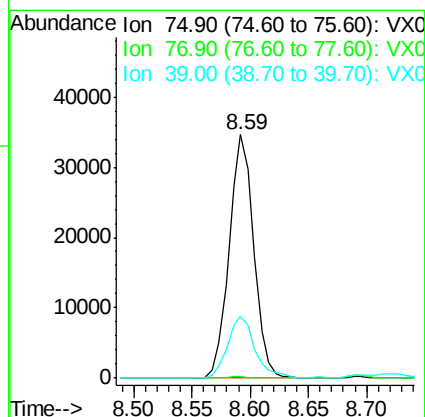
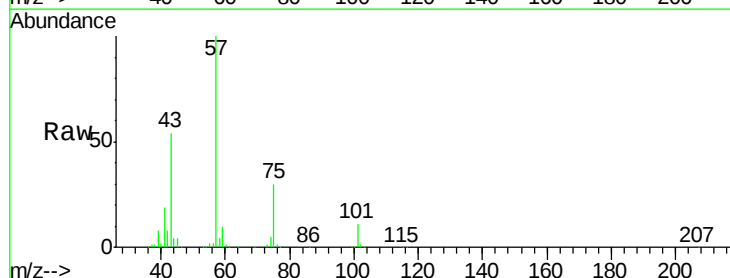
Tgt Ion: 75 Resp: 50864

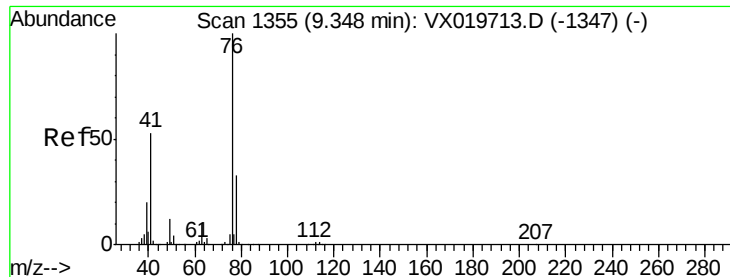
Ion Ratio Lower Upper

75 100

77 0.5 25.7 38.5#

39 25.1 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 5.197 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

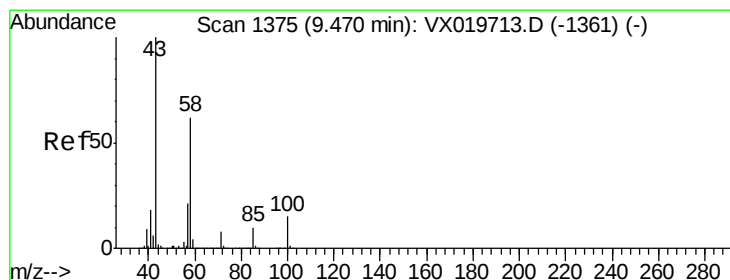
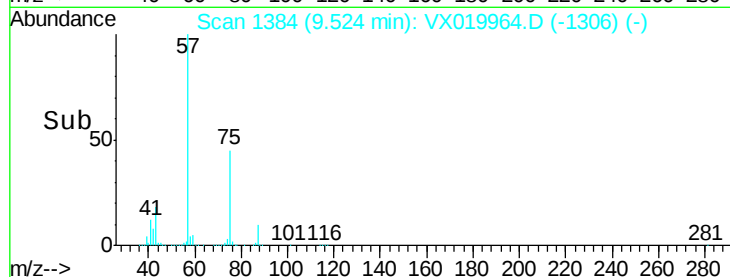
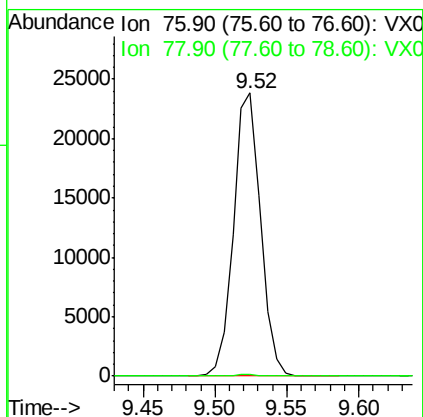
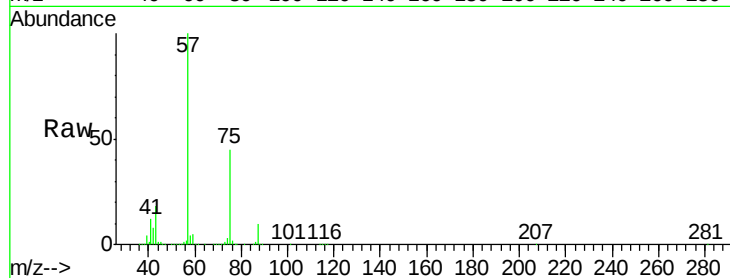
PB133565ZHE#16

Tgt Ion: 76 Resp: 31314

Ion Ratio Lower Upper

76 100

78 0.5 26.2 39.2#



#59

2-Hexanone

Concen: 106.496 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019964.D

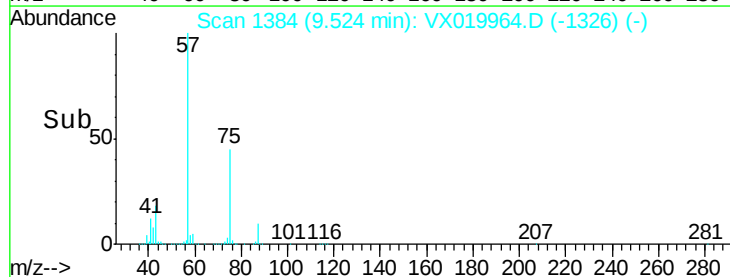
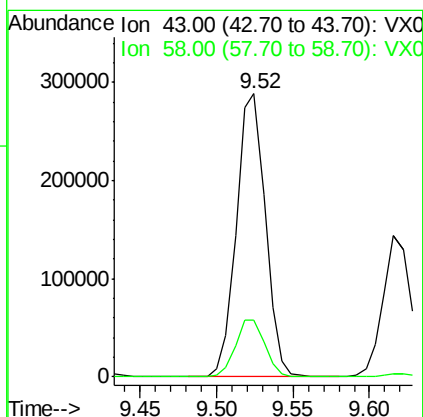
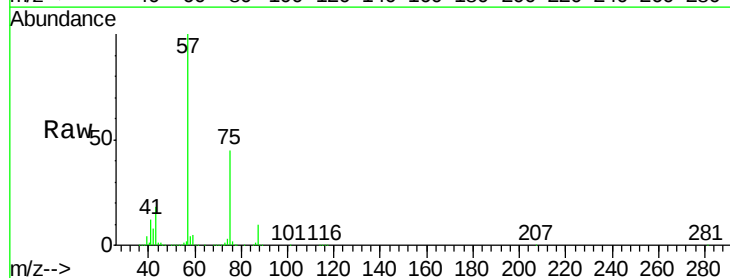
Acq: 13 Dec 2020 04:25

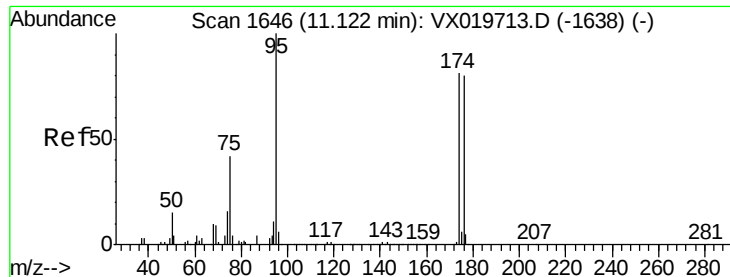
Tgt Ion: 43 Resp: 379181

Ion Ratio Lower Upper

43 100

58 20.6 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 46.028 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#16

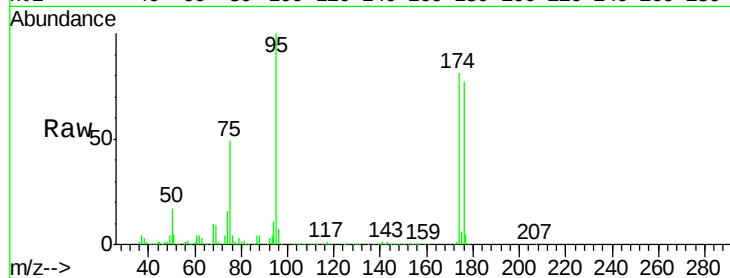
Tgt Ion: 95 Resp: 219243

Ion Ratio Lower Upper

95 100

174 78.1 0.0 154.6

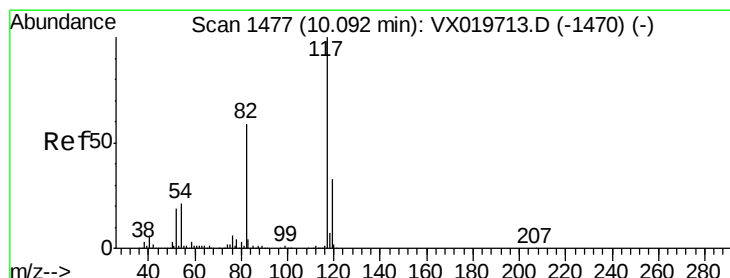
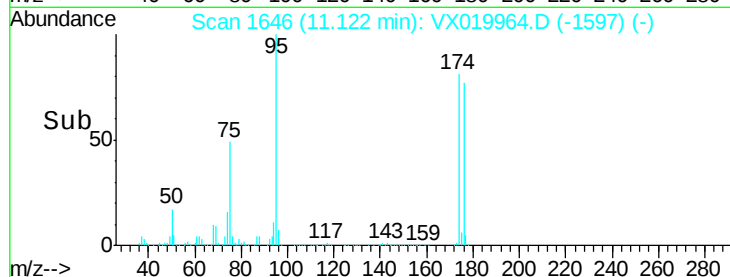
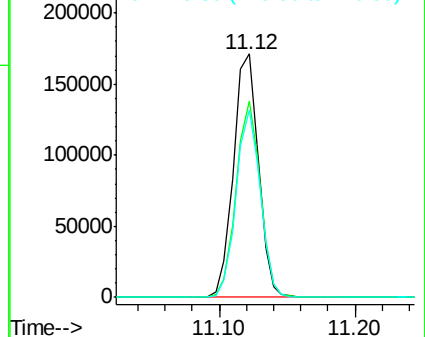
176 74.5 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

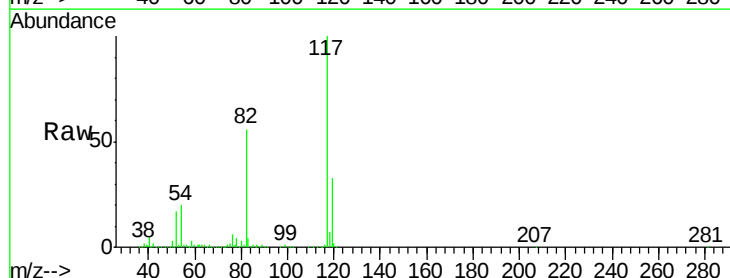
Tgt Ion: 117 Resp: 470910

Ion Ratio Lower Upper

117 100

82 56.2 47.4 71.2

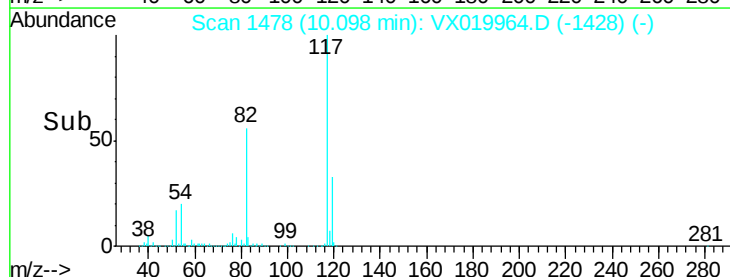
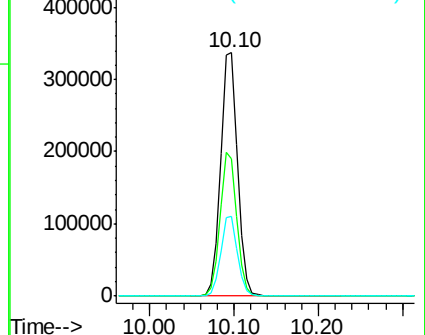
119 33.0 26.6 39.8

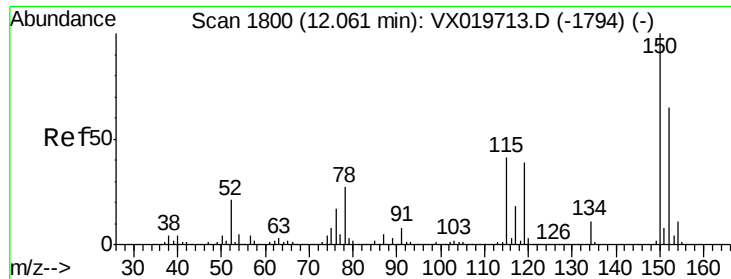


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#16

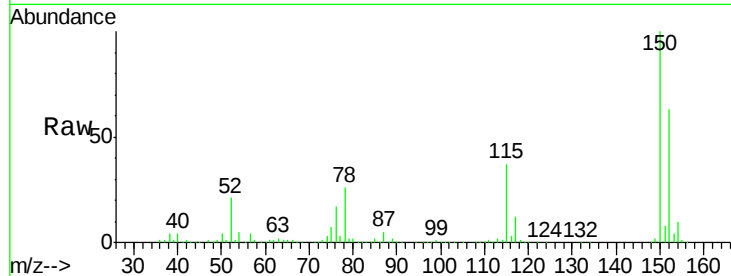
Tgt Ion: 152 Resp: 204581

Ion Ratio Lower Upper

152 100

115 59.2 41.1 123.3

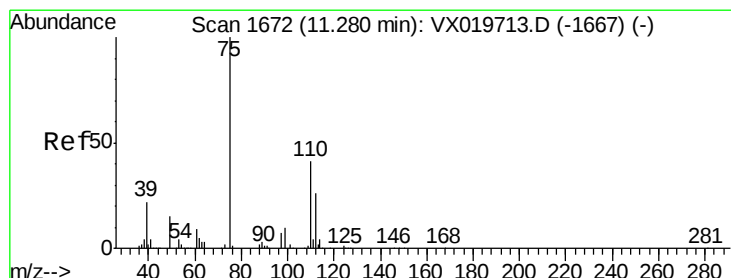
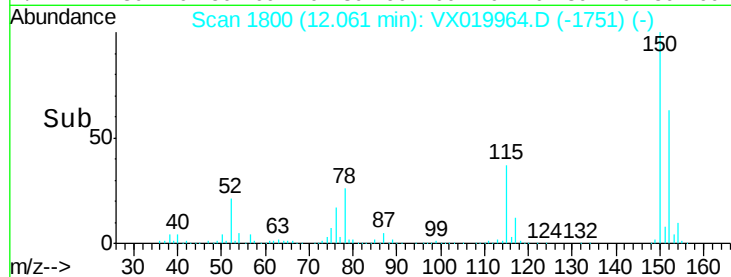
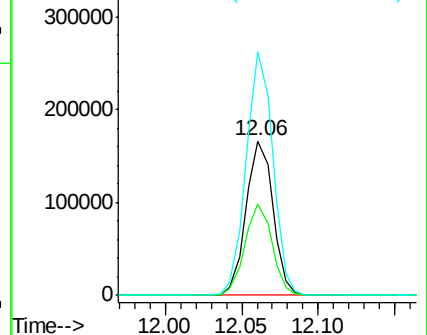
150 155.8 0.0 349.0



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: 23.464 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019964.D

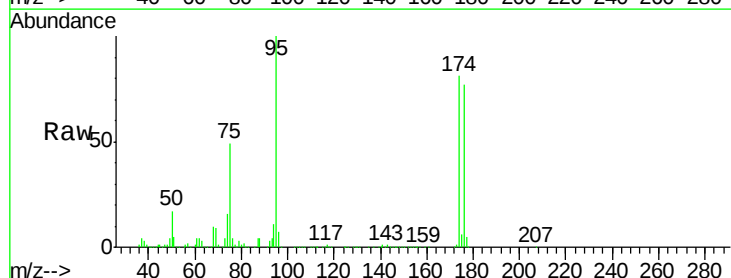
Acq: 13 Dec 2020 04:25

Tgt Ion: 75 Resp: 107660

Ion Ratio Lower Upper

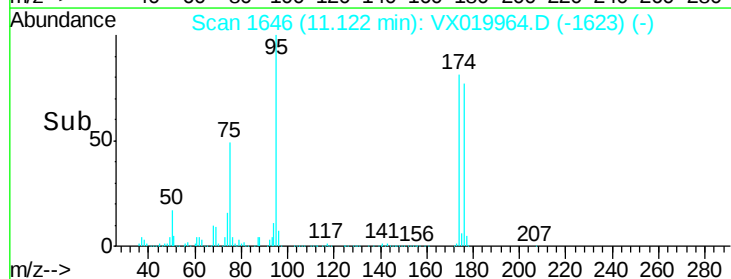
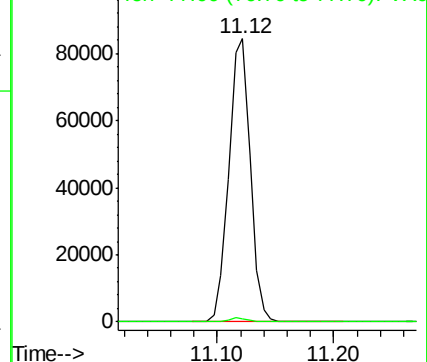
75 100

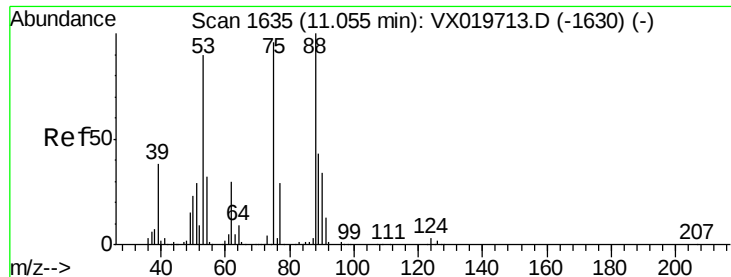
77 1.3 19.1 57.5#



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: 67.829 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019964.D

Acq: 13 Dec 2020 04:25

Instrument :

MSVOA_X

ClientSampleId :

PB133565ZHE#16

Tgt Ion: 75 Resp: 107660

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

