

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019897.D
 Acq On : 11 Dec 2020 23:58
 Operator : JC/MD
 Sample : L4996-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE135D1-20201208

Quant Time: Dec 12 02:09:25 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	5.62	168	316172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	527746	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	483268	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	199510	50.00	ug/l	0.00

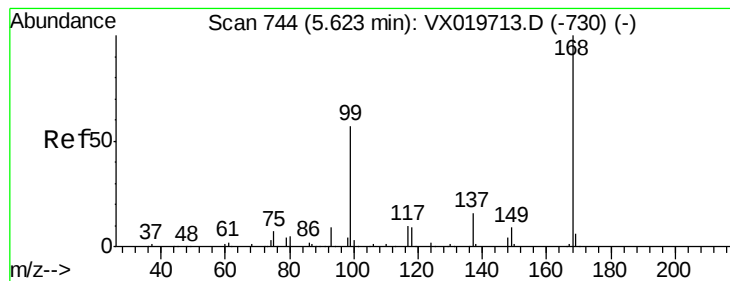
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	201532	48.50	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.00%
35) Dibromofluoromethane	5.46	113	162335	47.60	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.20%
50) Toluene-d8	8.70	98	638049	49.00	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.00%
62) 4-Bromofluorobenzene	11.12	95	218782	44.14	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.28%

Target Compounds

					Qvalue	
5) Bromomethane	1.64	94	430	0.361	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.37	101	2247	0.784	ug/l	99
11) Tert butyl alcohol	2.99	59	1273	Below Cal	#	73
16) Acetone	2.42	43	2167	1.387	ug/l	100
20) Methylene Chloride	2.84	84	721	Below Cal		92
28) Bromochloromethane	5.17	49	606	0.213	ug/l #	9
30) Chloroform	5.17	83	8404	1.370	ug/l	98
31) Cyclohexane	5.62	56	6086	1.177	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24002	5.033	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30286	6.485	ug/l #	16
44) Trichloroethene	7.18	130	1962	0.513	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	106112	23.714	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	106112	68.553	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.00 min

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MSVOA_X

ClientSampleId :

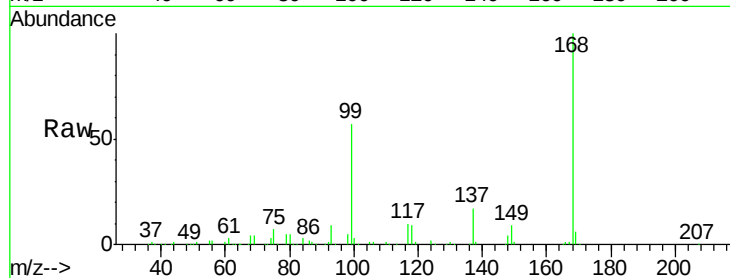
RE135D1-20201208

Tgt Ion: 168 Resp: 316172

Ion Ratio Lower Upper

168 100

99 57.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

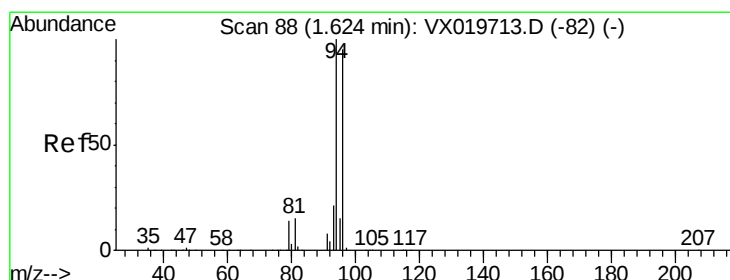
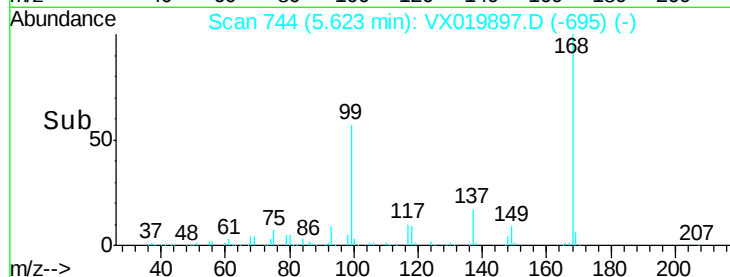
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.361 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019897.D

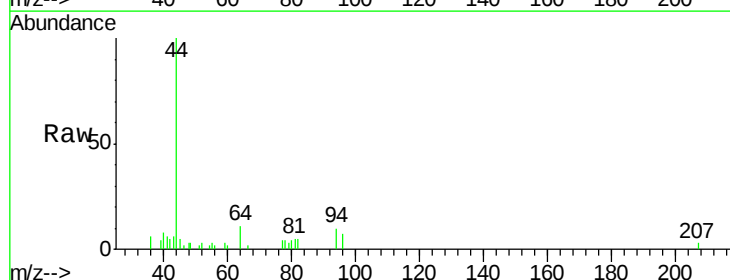
Acq: 11 Dec 2020 23:58

Tgt Ion: 94 Resp: 430

Ion Ratio Lower Upper

94 100

96 40.3 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

250

200

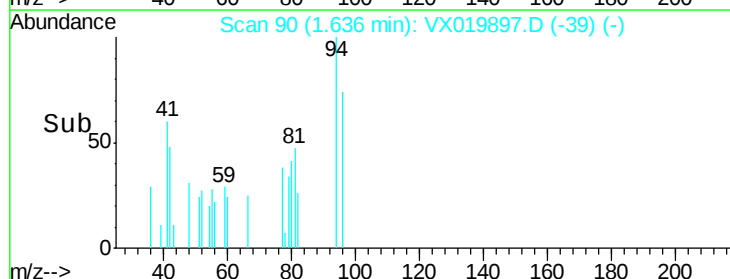
150

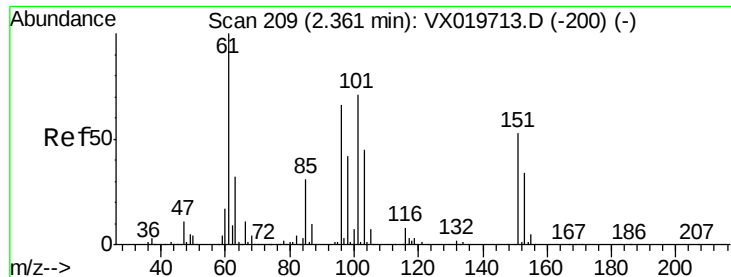
100

50

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.784 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

MSVOA_X

ClientSampleId :

RE135D1-20201208

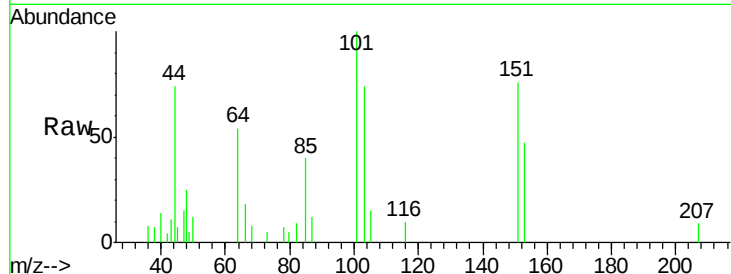
Tgt Ion:101 Resp: 2247

Ion Ratio Lower Upper

101 100

85 45.8 34.9 52.3

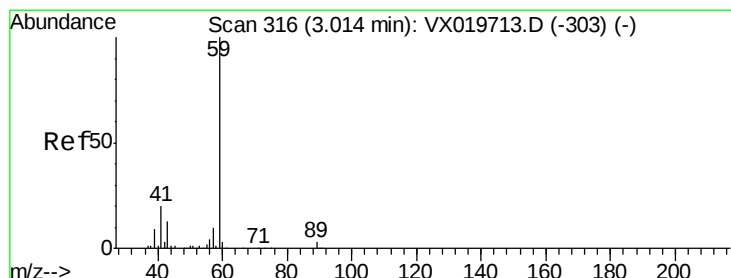
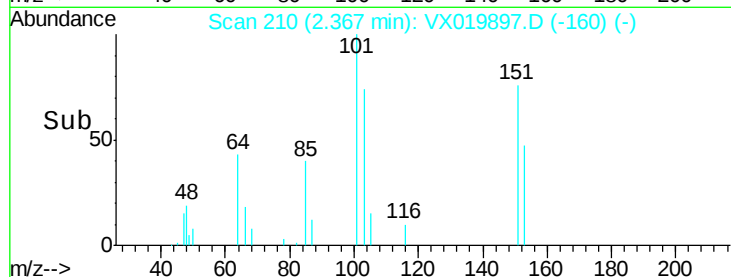
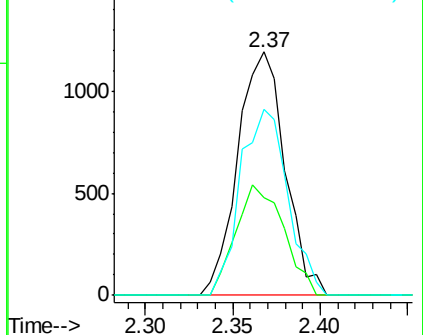
151 76.7 61.4 92.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019897.D

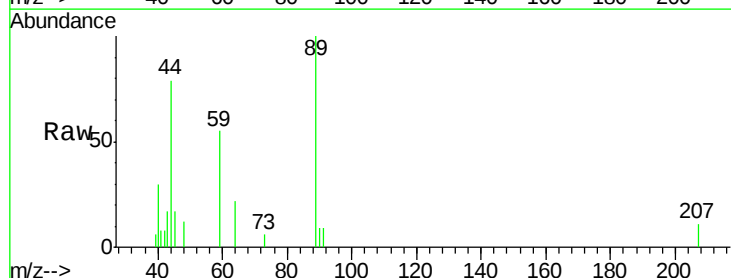
Acq: 11 Dec 2020 23:58

Tgt Ion: 59 Resp: 1273

Ion Ratio Lower Upper

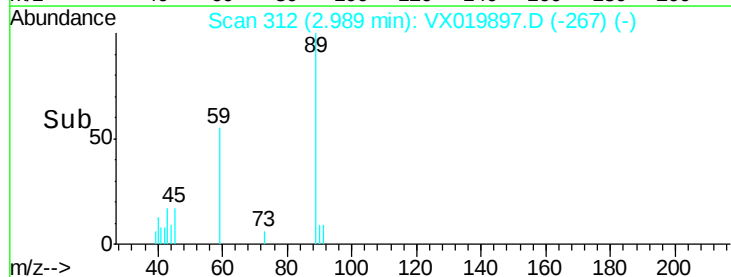
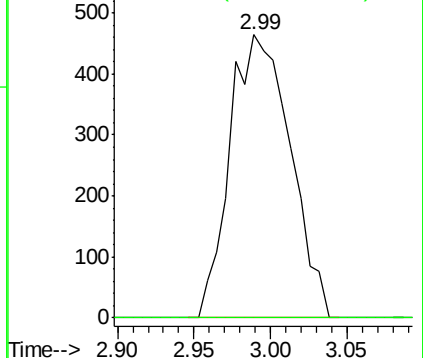
59 100

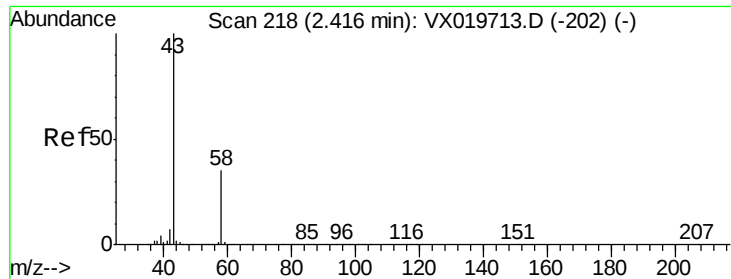
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 1.387 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

MSVOA_X

ClientSampleId :

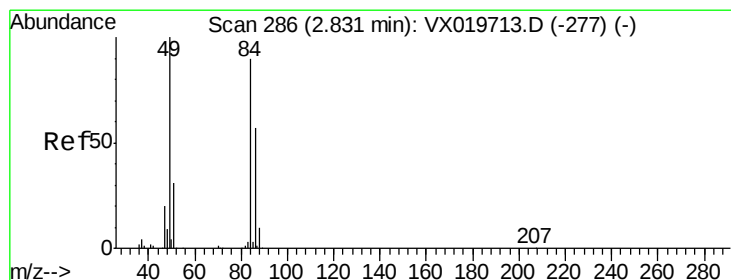
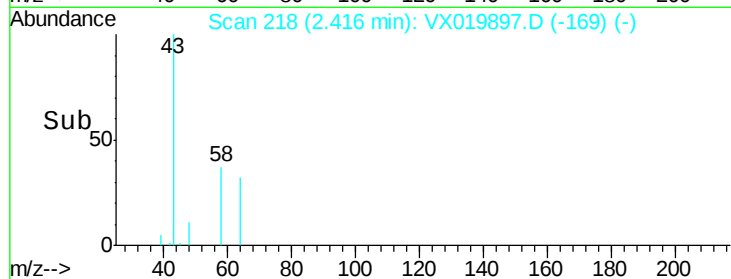
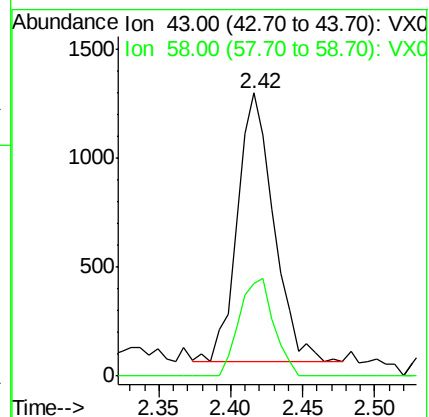
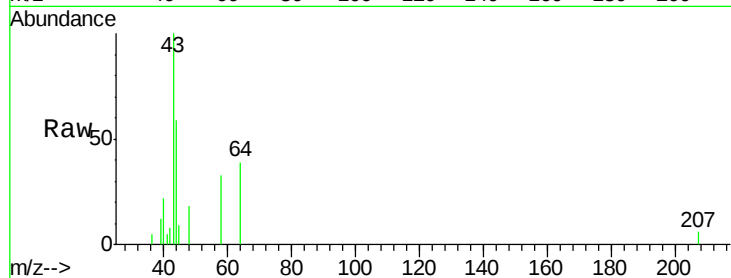
RE135D1-20201208

Tgt Ion: 43 Resp: 2167

Ion Ratio Lower Upper

43 100

58 34.6 27.8 41.8



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Tgt Ion: 84 Resp: 721

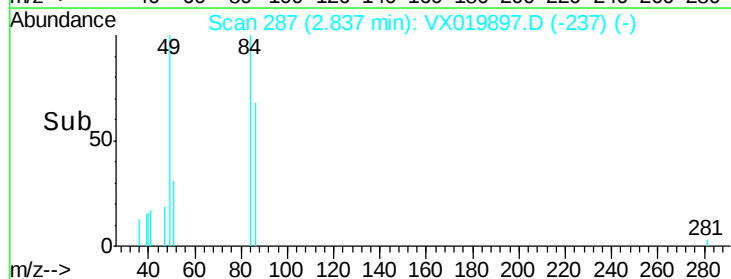
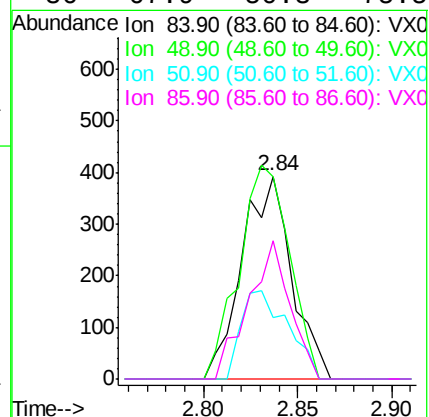
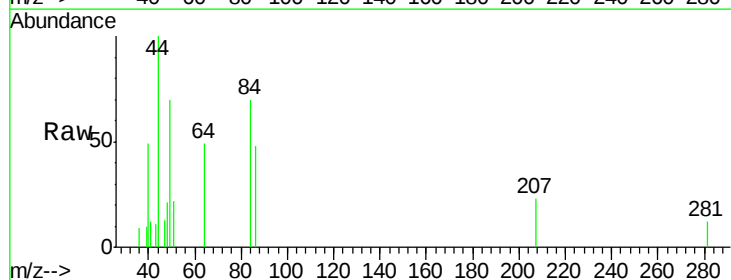
Ion Ratio Lower Upper

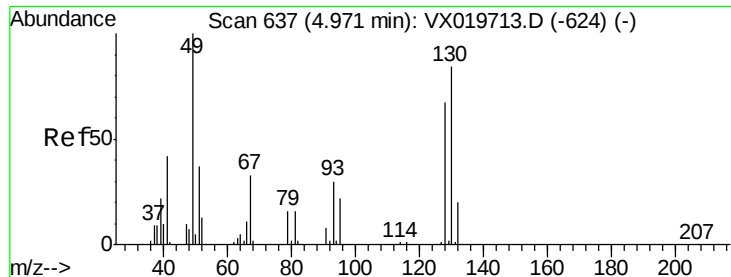
84 100

49 100.0 88.6 132.8

51 30.5 27.0 40.6

86 67.9 50.3 75.5





#28

Bromochloromethane

Concen: 0.213 ug/l

RT: 5.17 min Scan# 669

Delta R.T. 0.20 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

MSVOA_X

ClientSampleId :

RE135D1-20201208

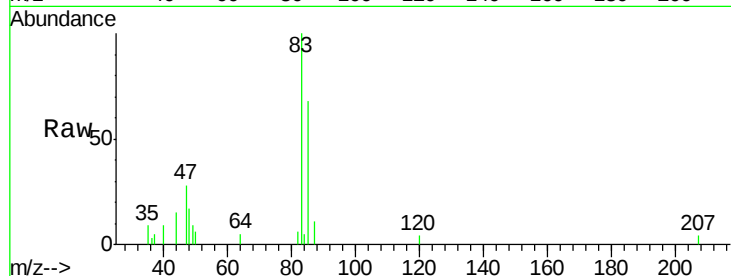
Tgt Ion: 49 Resp: 606

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

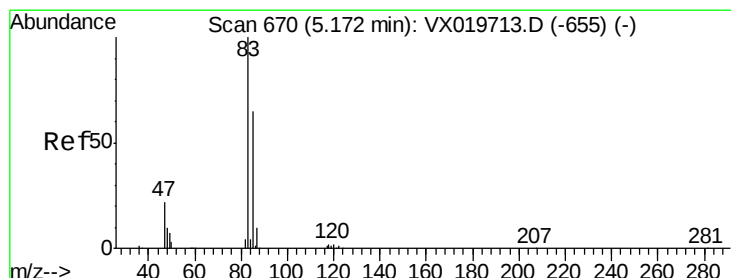
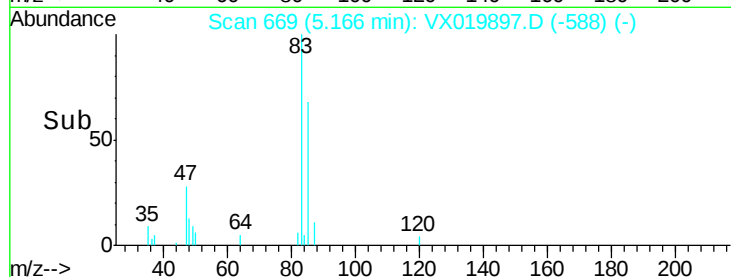
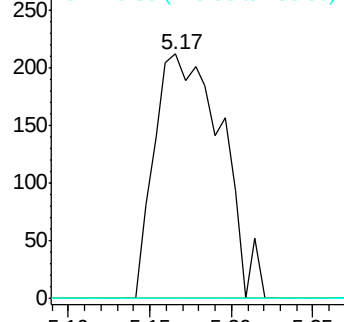
130 0.0 68.2 102.2#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 1.370 ug/l

RT: 5.17 min Scan# 670

Delta R.T. 0.00 min

Lab File: VX019897.D

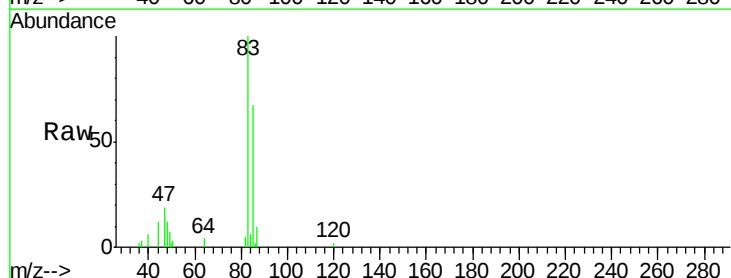
Acq: 11 Dec 2020 23:58

Tgt Ion: 83 Resp: 8404

Ion Ratio Lower Upper

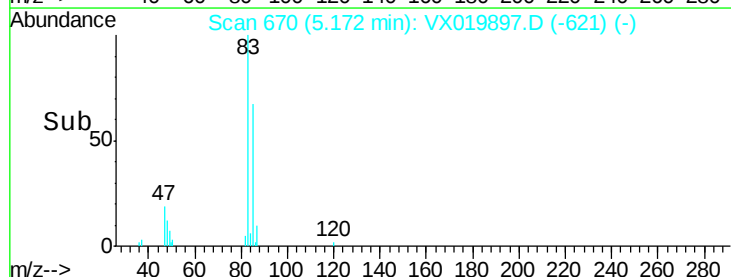
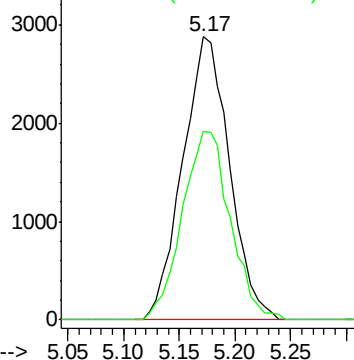
83 100

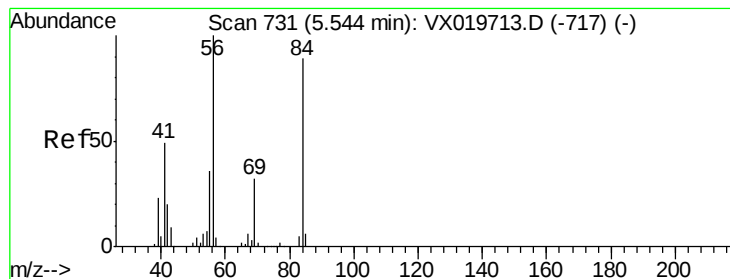
85 66.6 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.177 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

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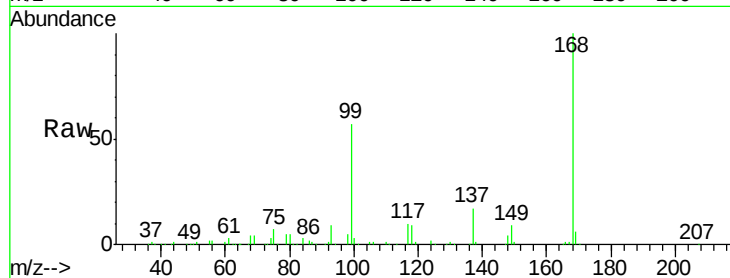
Tgt Ion: 56 Resp: 6086

Ion Ratio Lower Upper

56 100

69 199.9 25.3 37.9#

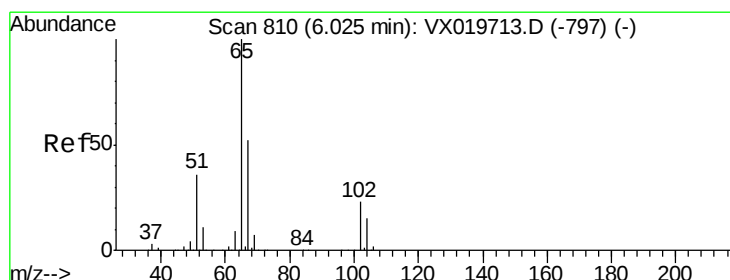
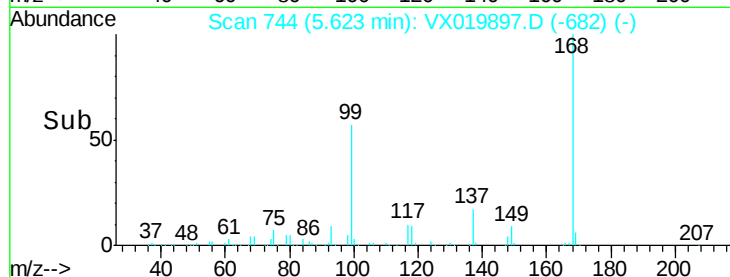
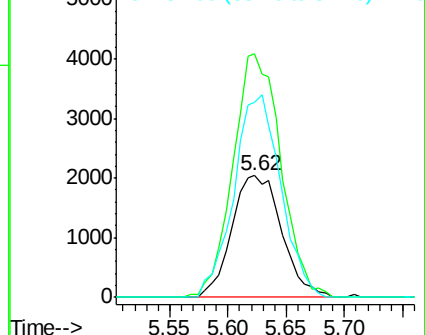
84 160.5 71.4 107.0#



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: 48.498 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019897.D

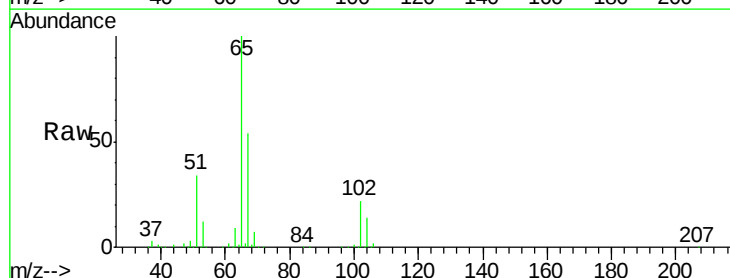
Acq: 11 Dec 2020 23:58

Tgt Ion: 65 Resp: 201532

Ion Ratio Lower Upper

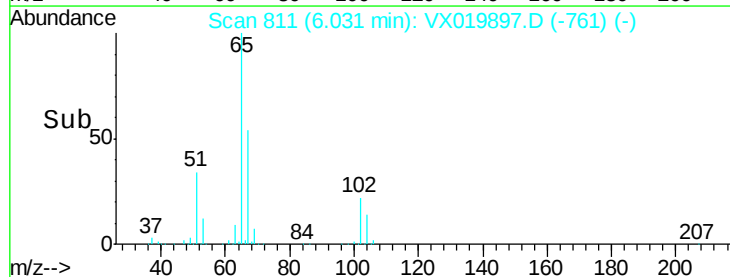
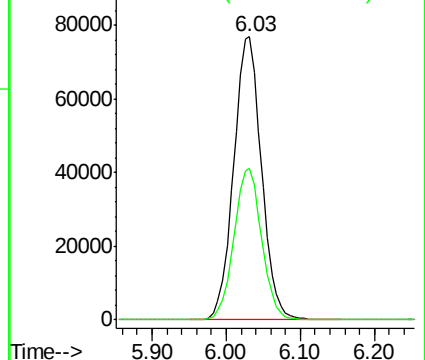
65 100

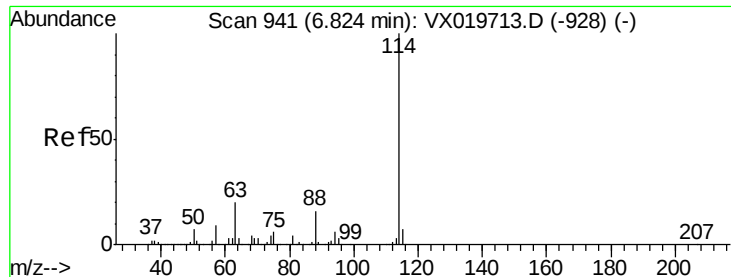
67 53.3 0.0 105.4



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: VX019897.D

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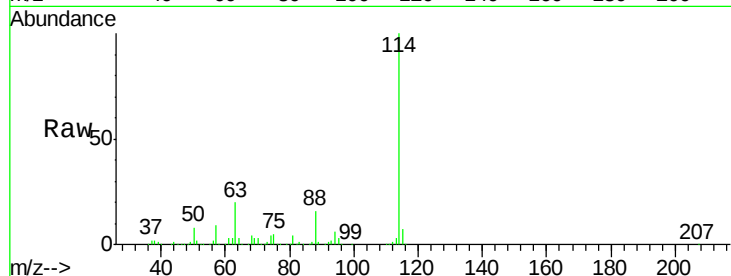
Tgt Ion:114 Resp: 527746

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

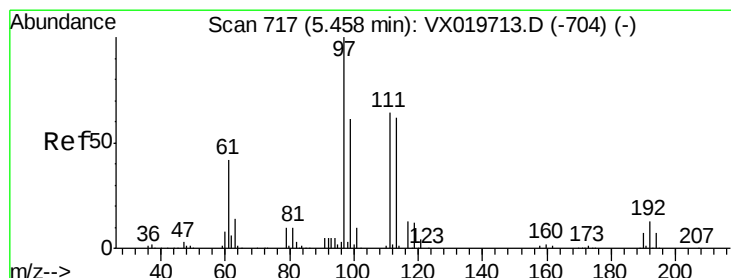
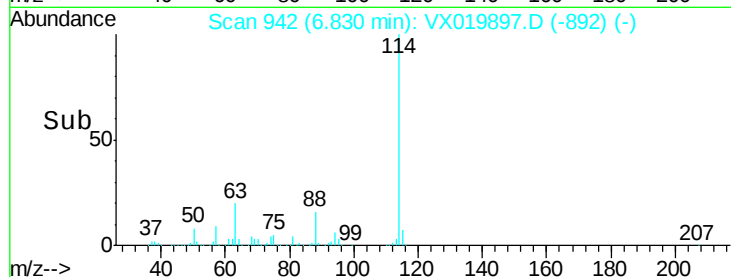
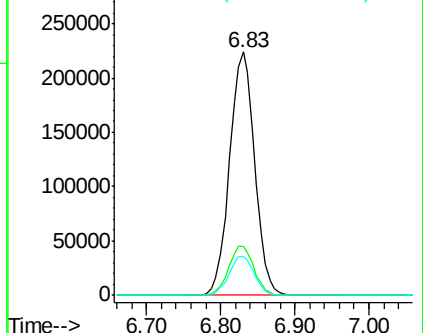
88 16.0 0.0 32.8



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: 47.595 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

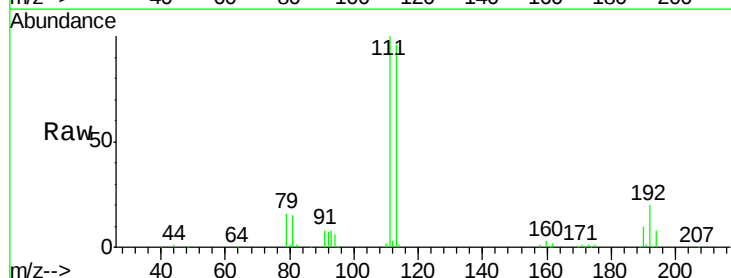
Tgt Ion:113 Resp: 162335

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

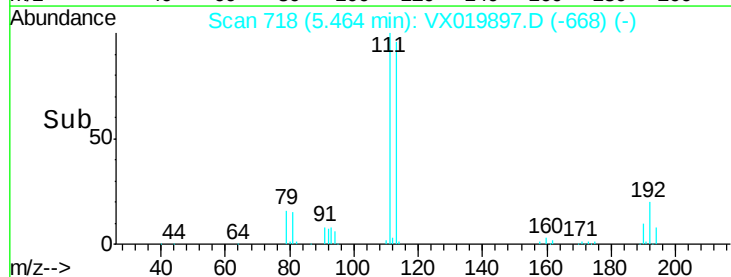
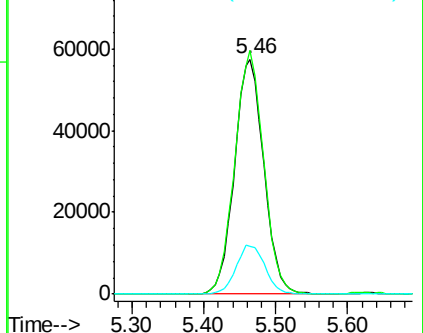
192 20.6 16.7 25.1

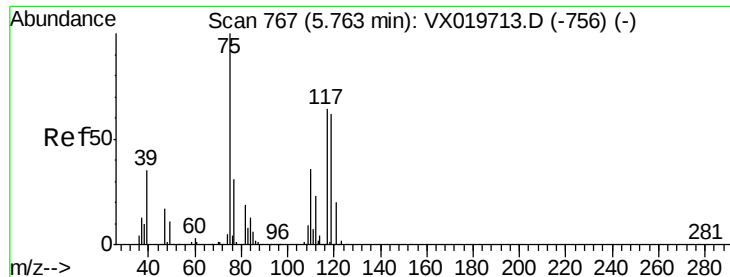


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.033 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

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RE135D1-20201208

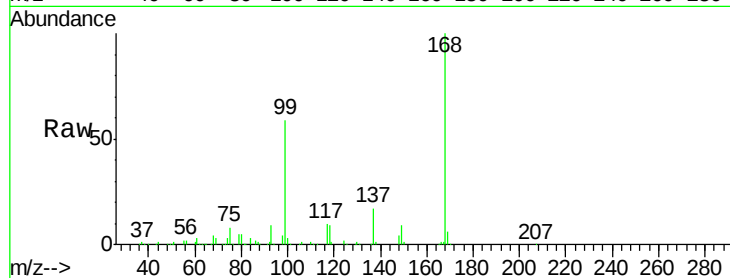
Tgt Ion: 75 Resp: 24002

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

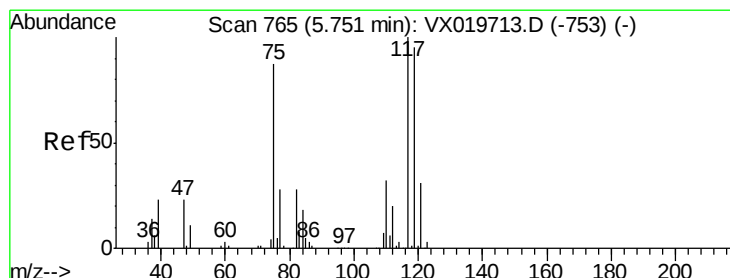
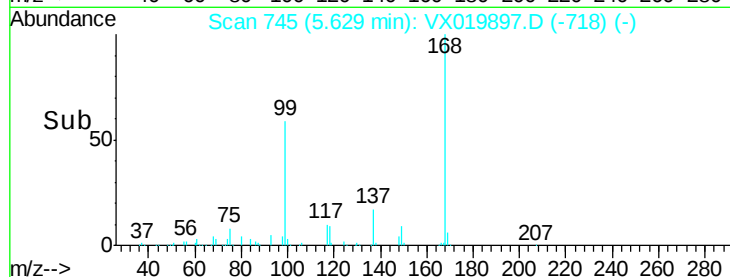
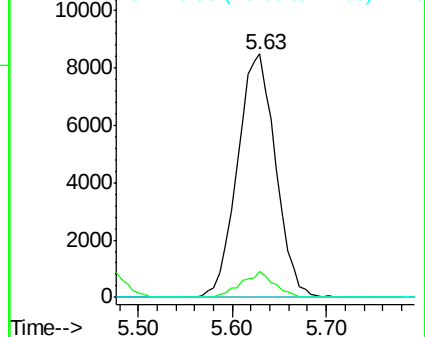
77 0.0 25.3 37.9#



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: 6.485 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

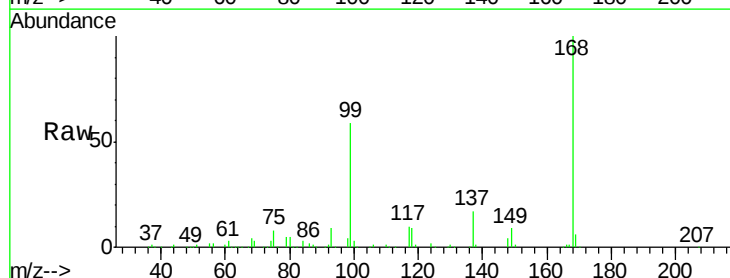
Tgt Ion: 117 Resp: 30286

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

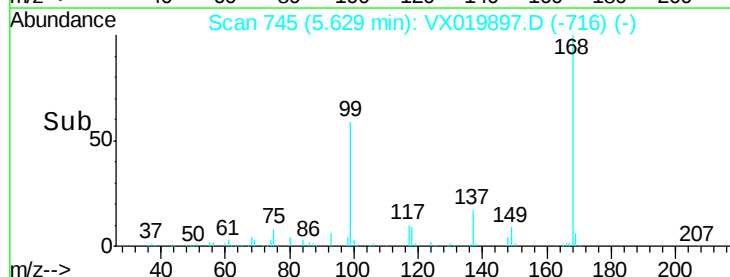
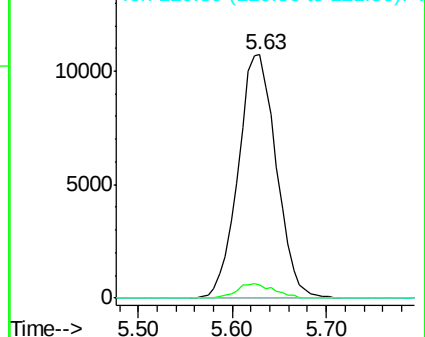
121 0.0 24.8 37.2#

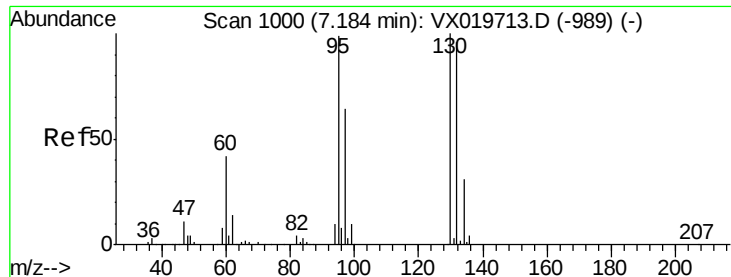


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.513 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

MSVOA_X

ClientSampleId :

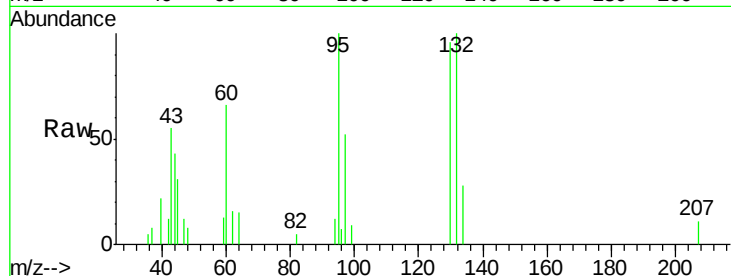
RE135D1-20201208

Tgt Ion:130 Resp: 1962

Ion Ratio Lower Upper

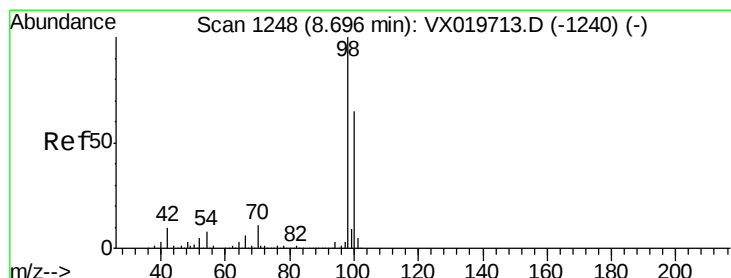
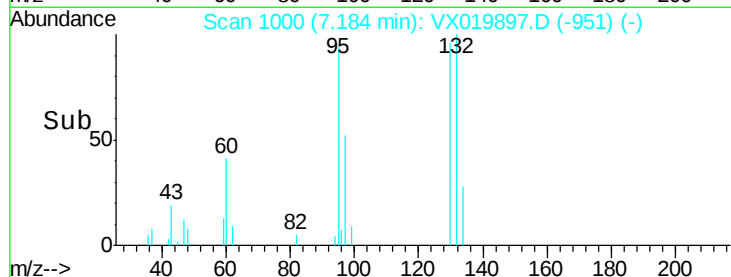
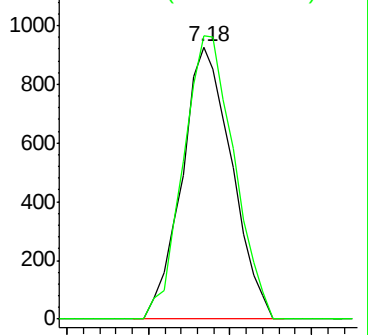
130 100

95 103.9 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.000 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019897.D

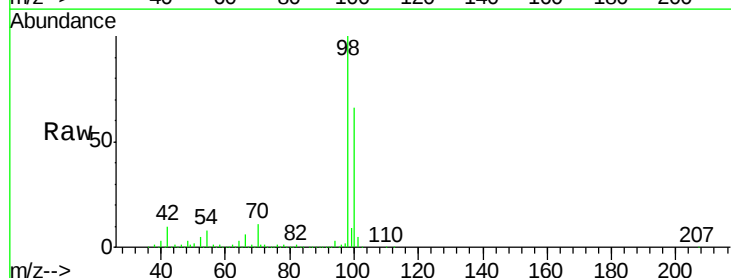
Acq: 11 Dec 2020 23:58

Tgt Ion: 98 Resp: 638049

Ion Ratio Lower Upper

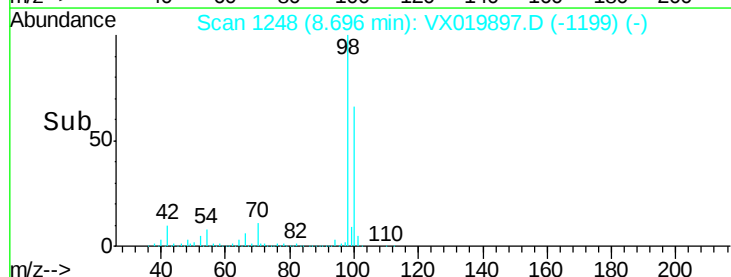
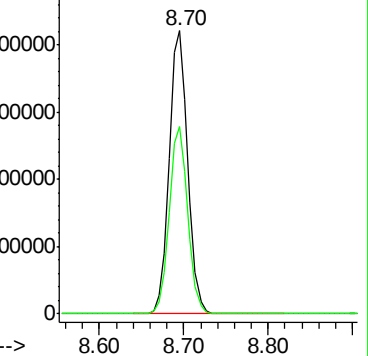
98 100

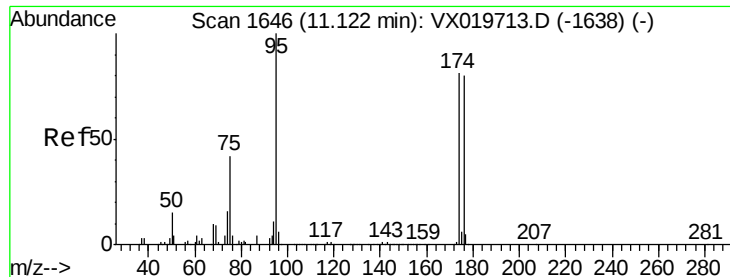
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.144 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

MSVOA_X

ClientSampleId :

RE135D1-20201208

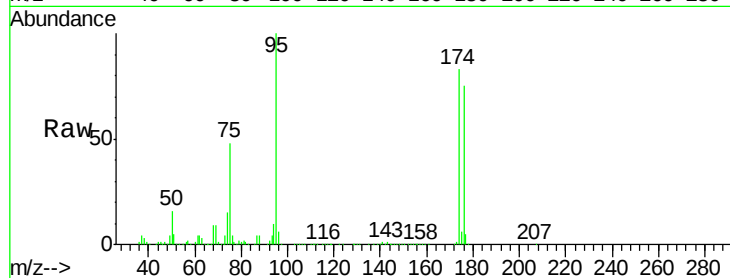
Tgt Ion: 95 Resp: 218782

Ion Ratio Lower Upper

95 100

174 79.2 0.0 154.6

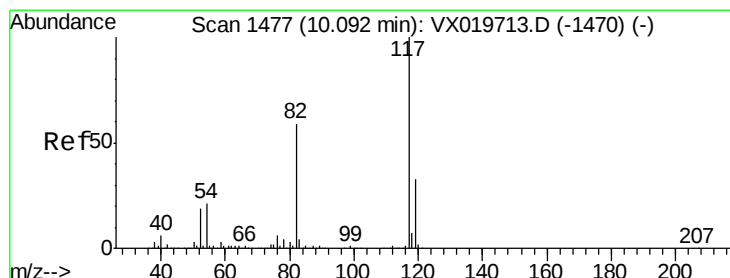
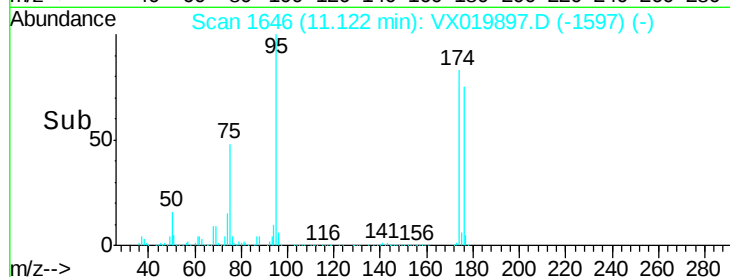
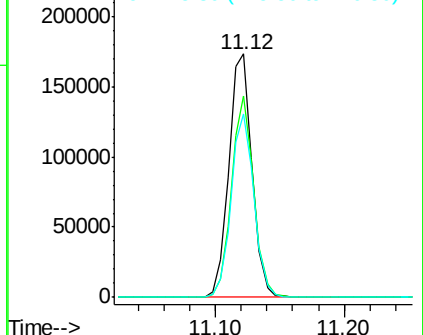
176 74.2 0.0 155.8



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: VX019897.D

Acq: 11 Dec 2020 23:58

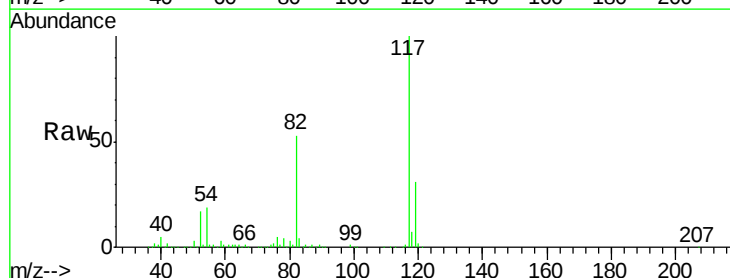
Tgt Ion: 117 Resp: 483268

Ion Ratio Lower Upper

117 100

82 53.4 47.4 71.2

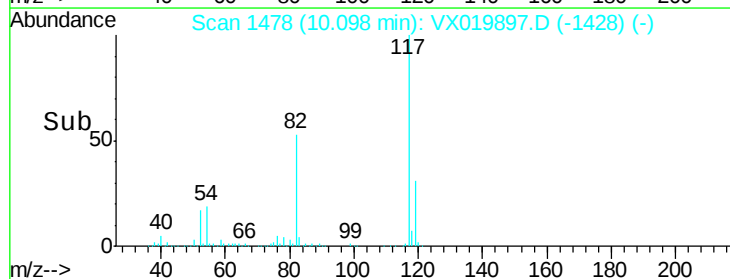
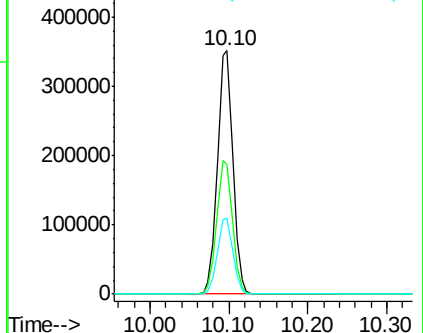
119 31.4 26.6 39.8

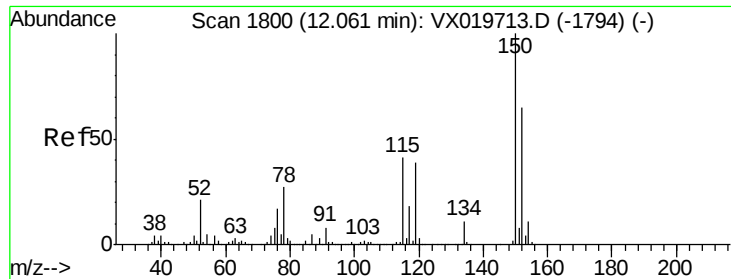


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

MSVOA_X

ClientSampleId :

RE135D1-20201208

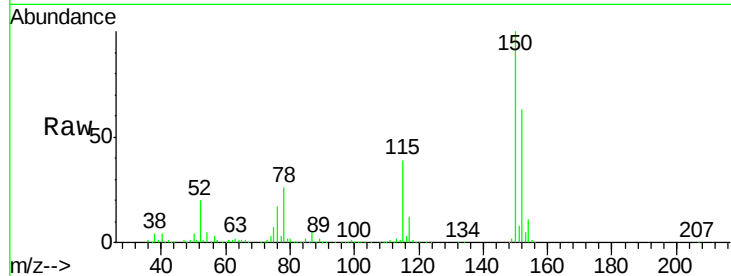
Tgt Ion:152 Resp: 199510

Ion Ratio Lower Upper

152 100

115 60.2 41.1 123.3

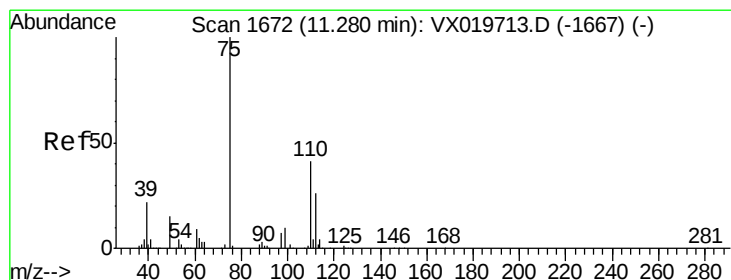
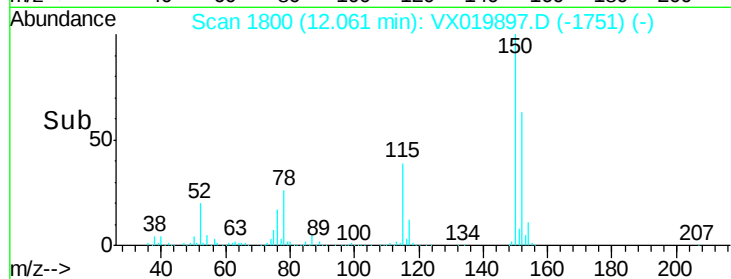
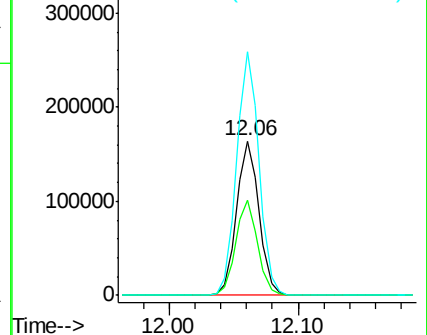
150 157.7 0.0 349.0



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: 23.714 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019897.D

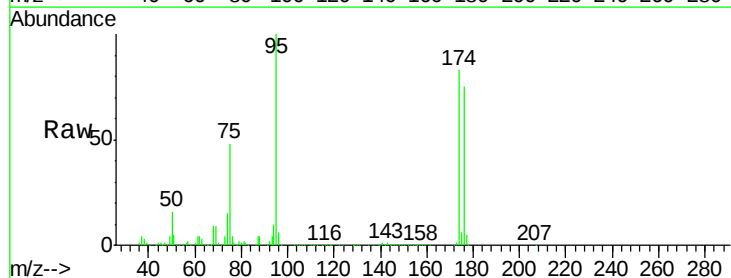
Acq: 11 Dec 2020 23:58

Tgt Ion: 75 Resp: 106112

Ion Ratio Lower Upper

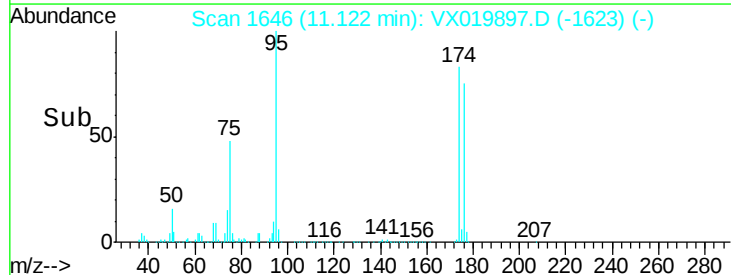
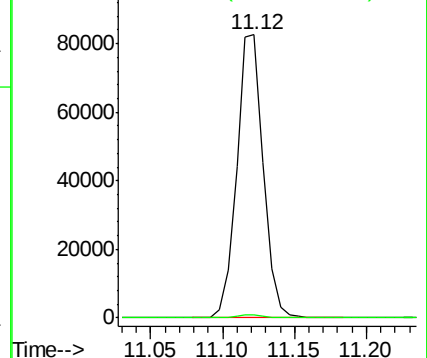
75 100

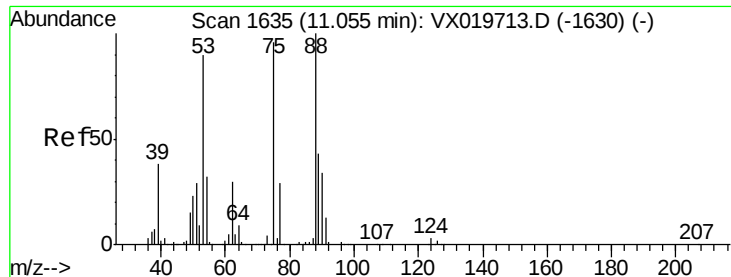
77 1.3 19.1 57.5#



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: 68.553 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019897.D

Acq: 11 Dec 2020 23:58

Instrument :

MSVOA_X

ClientSampleId :

RE135D1-20201208

Tgt Ion: 75 Resp: 106112

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

