

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121720\
 Data File : VX020086.D
 Acq On : 16 Dec 2020 23:19
 Operator : JC/MD
 Sample : L5053-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20201209

Quant Time: Dec 17 00:34:36 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	294394	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	495847	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	446988	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	177820	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	191054	49.38	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.76%	
35) Dibromofluoromethane		5.46	113	154889	48.33	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.66%	
50) Toluene-d8		8.70	98	599627	49.01	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.02%	
62) 4-Bromofluorobenzene		11.12	95	201409	43.25	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	86.50%	

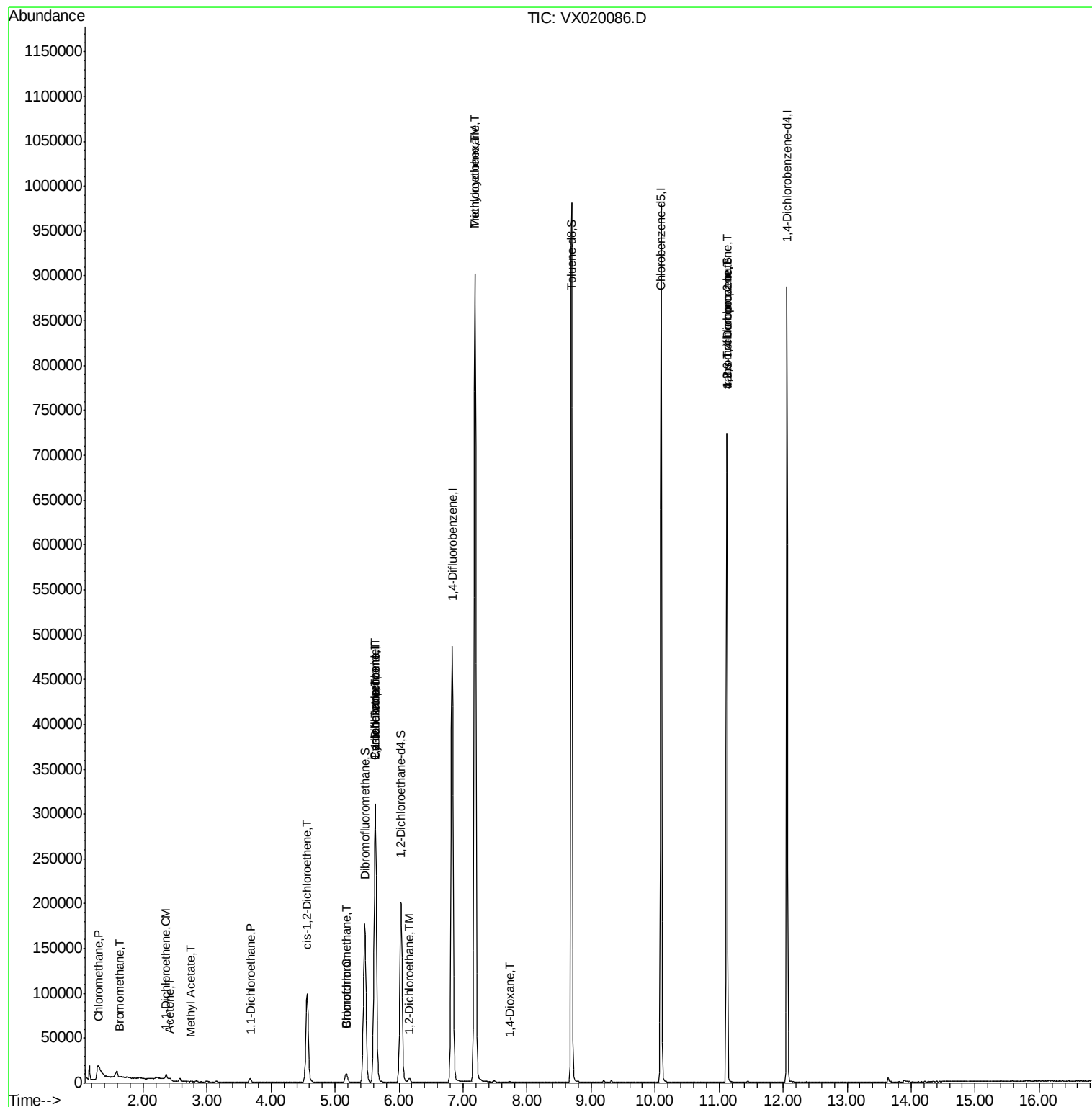
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1508	0.476	ug/l #	79
5) Bromomethane	1.64	94	467	0.421	ug/l	87
11) Tert butyl alcohol	3.00	59	978	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	1726	0.640	ug/l	96
16) Acetone	2.42	43	2273	1.563	ug/l	94
18) Methyl Acetate	2.75	43	802	0.225	ug/l #	53
20) Methylene Chloride	2.83	84	580	Below Cal		90
24) 1,1-Dichloroethane	3.67	63	4760	0.857	ug/l	96
27) cis-1,2-Dichloroethene	4.56	96	64974	17.656	ug/l	90
28) Bromochloromethane	5.18	49	908	0.343	ug/l #	9
30) Chloroform	5.17	83	11965	2.095	ug/l	100
31) Cyclohexane	5.62	56	5662	1.176	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22770	5.082	ug/l #	48
38) Carbon Tetrachloride	5.63	117	29266	6.670	ug/l #	17
39) Methylcyclohexane	7.18	83	4336	0.824	ug/l #	1
42) 1,2-Dichloroethane	6.17	62	4348	0.930	ug/l	99
44) Trichloroethene	7.18	130	356395	99.242	ug/l	96
49) 1,4-Dioxane	7.73	88	425	4.850	ug/l #	79
76) 1,2,3-Trichloropropane	11.12	75	97027	24.329	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	97027	70.329	ug/l #	12

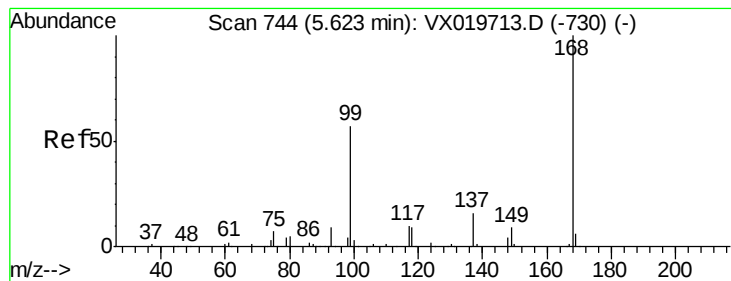
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

Instrument :

MSVOA_X

ClientSampleId :

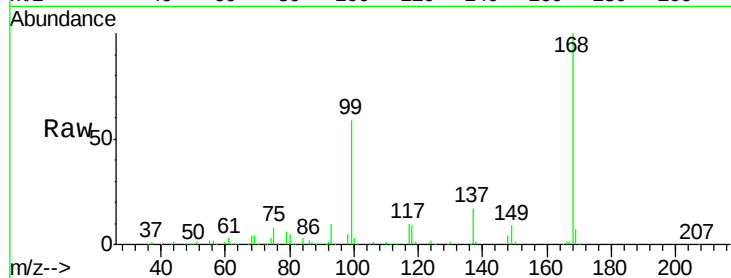
RE104D2-20201209

Tgt Ion:168 Resp: 294394

Ion Ratio Lower Upper

168 100

99 58.6 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

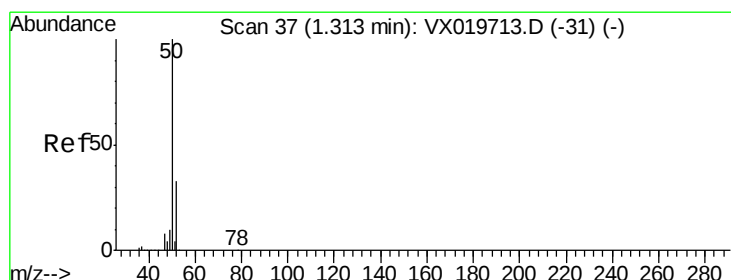
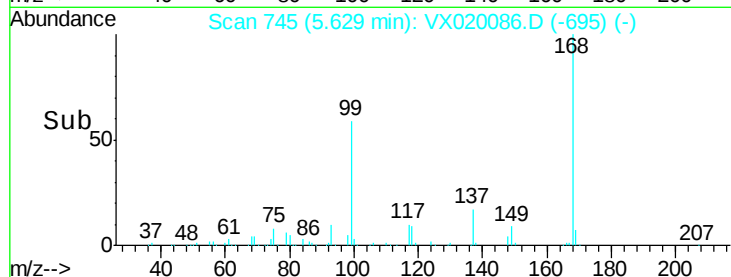
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.476 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX020086.D

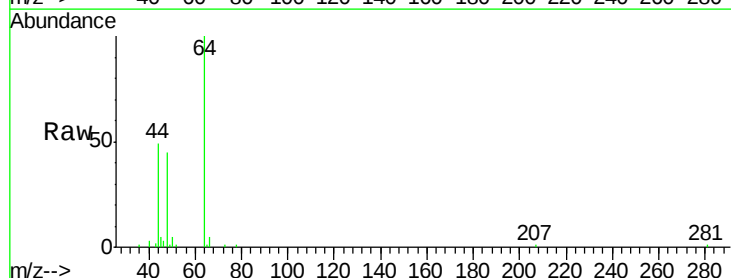
Acq: 16 Dec 2020 23:19

Tgt Ion: 50 Resp: 1508

Ion Ratio Lower Upper

50 100

52 20.9 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

500

400

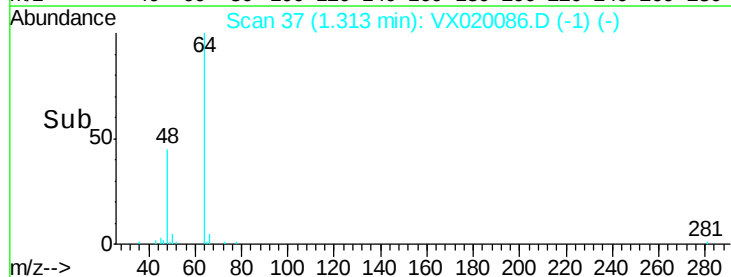
300

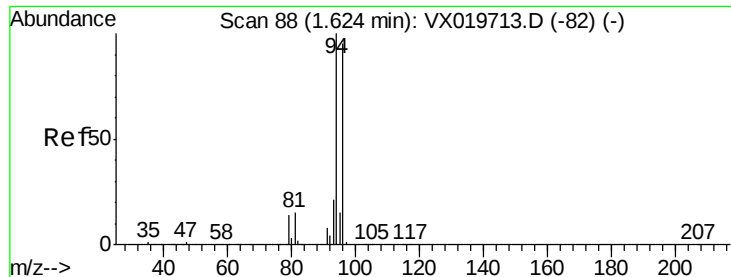
200

100

0

Time--> 1.20 1.30 1.40





#5

Bromomethane

Concen: 0.421 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

Instrument :

MSVOA_X

ClientSampleId :

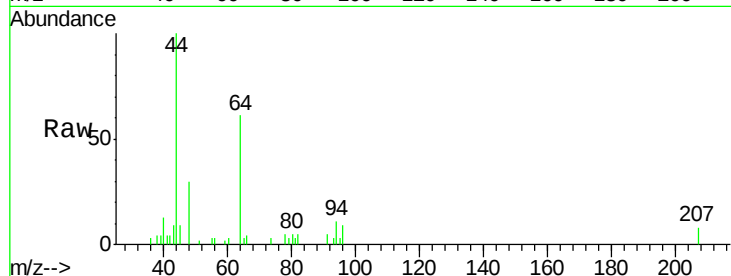
RE104D2-20201209

Tgt Ion: 94 Resp: 467

Ion Ratio Lower Upper

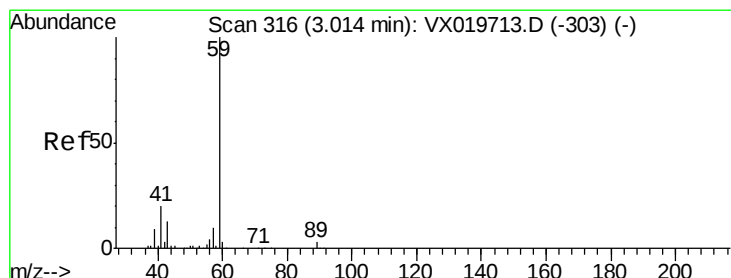
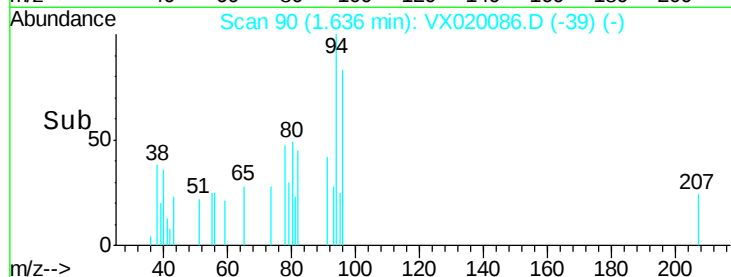
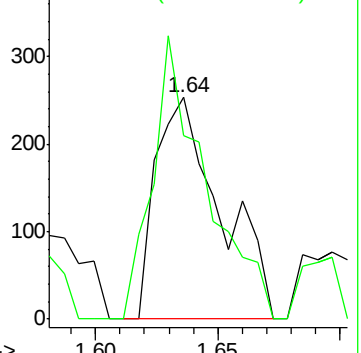
94 100

96 83.0 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX020086.D

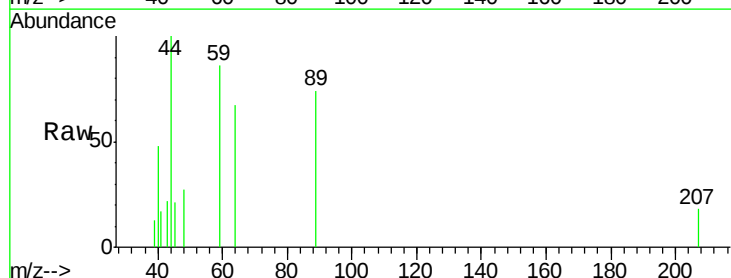
Acq: 16 Dec 2020 23:19

Tgt Ion: 59 Resp: 978

Ion Ratio Lower Upper

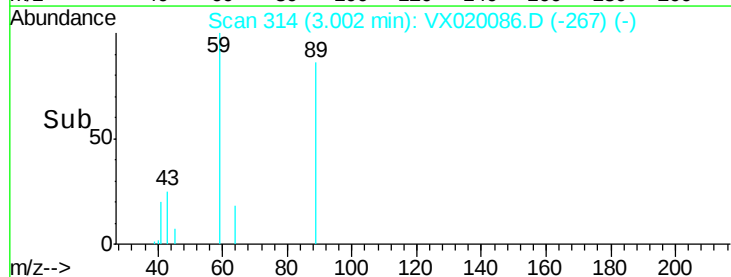
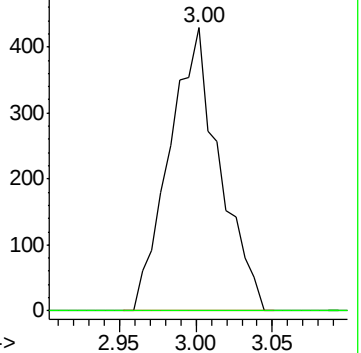
59 100

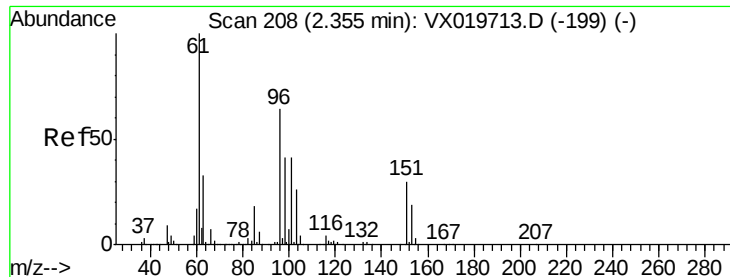
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.640 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20201209

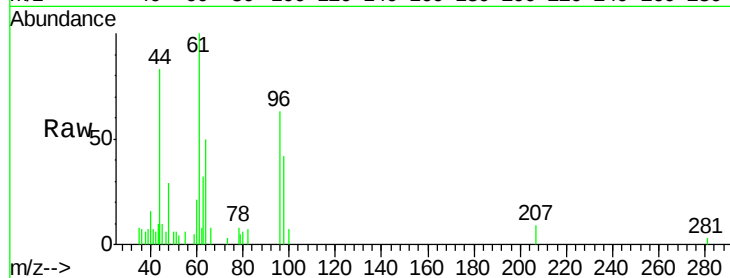
Tgt Ion: 96 Resp: 1726

Ion Ratio Lower Upper

96 100

61 159.5 124.6 187.0

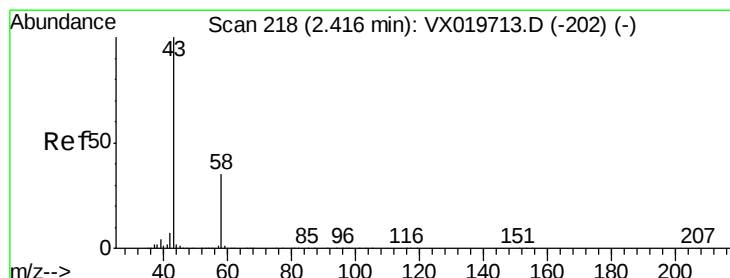
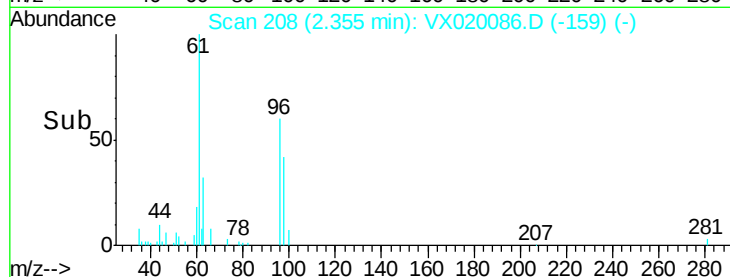
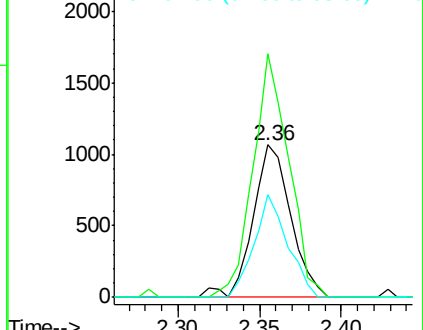
98 67.4 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#16

Acetone

Concen: 1.563 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020086.D

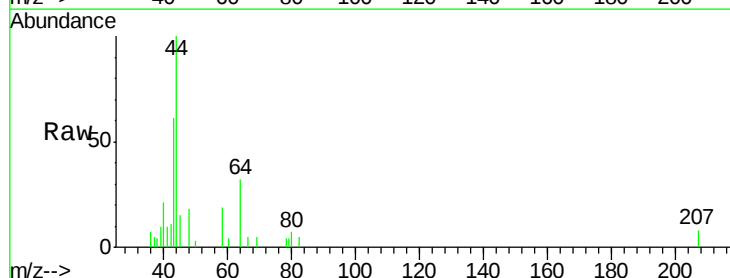
Acq: 16 Dec 2020 23:19

Tgt Ion: 43 Resp: 2273

Ion Ratio Lower Upper

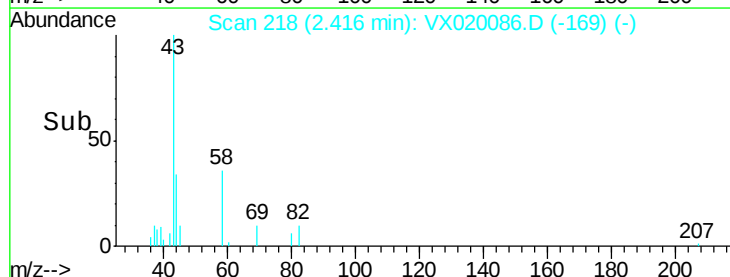
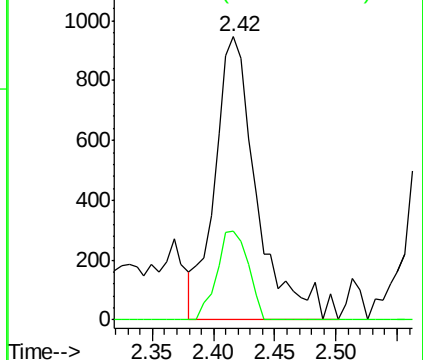
43 100

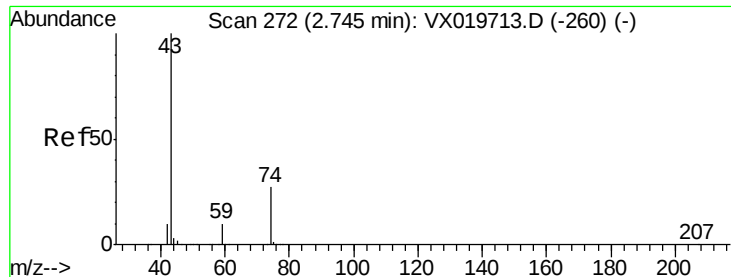
58 31.3 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

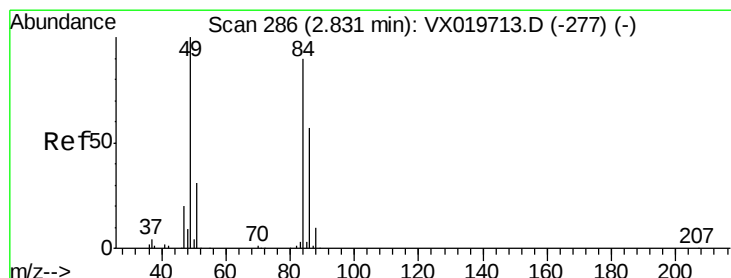
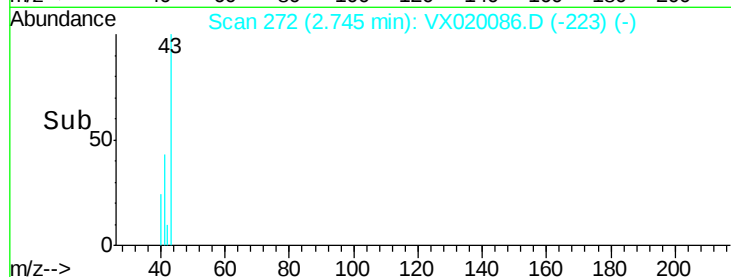
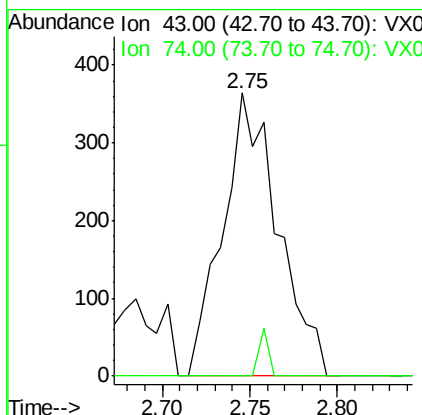
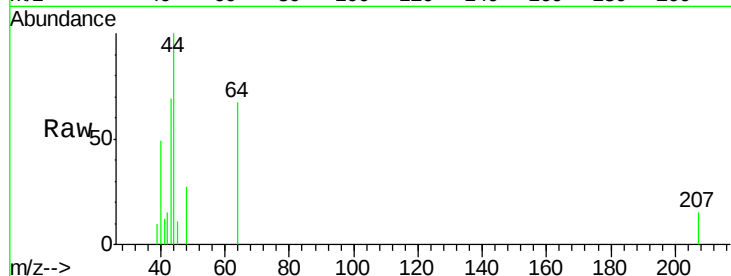




#18
Methyl Acetate
Concen: 0.225 ug/l
RT: 2.75 min Scan# 272
Delta R.T. 0.00 min
Lab File: VX020086.D
Acq: 16 Dec 2020 23:19

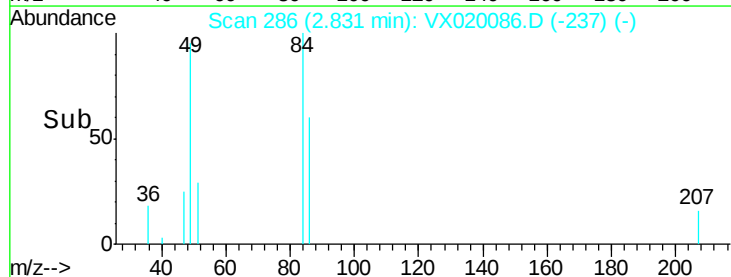
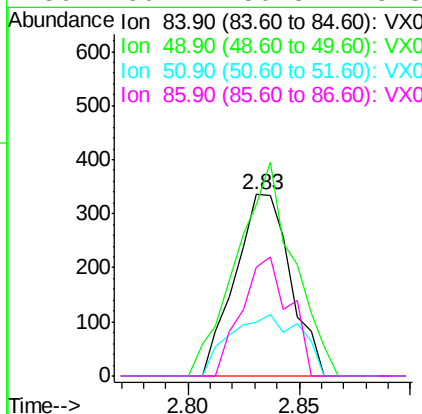
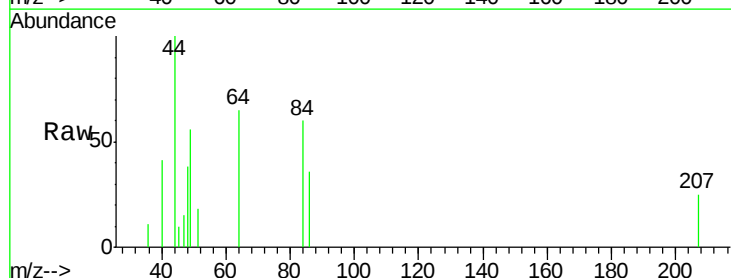
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20201209

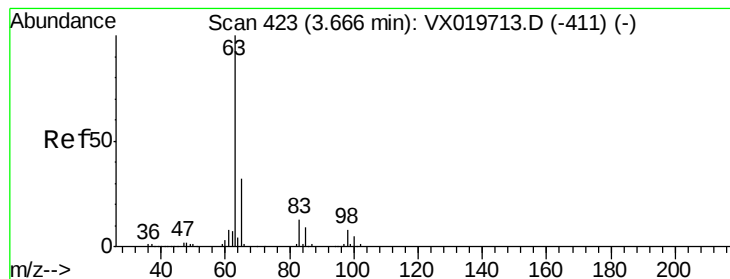
Tgt Ion: 43 Resp: 802
Ion Ratio Lower Upper
43 100
74 2.7 21.9 32.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020086.D
Acq: 16 Dec 2020 23:19

Tgt Ion: 84 Resp: 580
Ion Ratio Lower Upper
84 100
49 94.6 88.6 132.8
51 29.5 27.0 40.6
86 60.1 50.3 75.5





#24

1,1-Dichloroethane

Concen: 0.857 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20201209

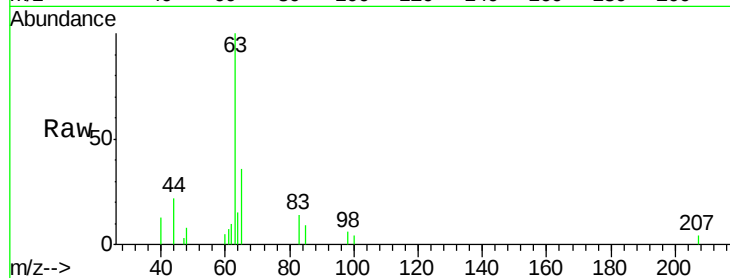
Tgt Ion: 63 Resp: 4760

Ion Ratio Lower Upper

63 100

98 5.9 3.8 11.2

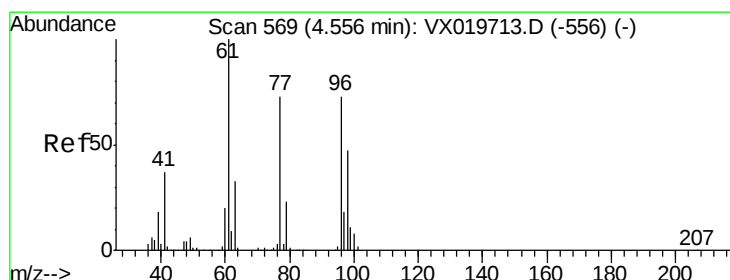
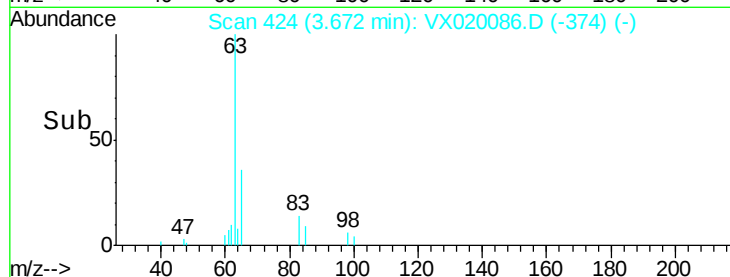
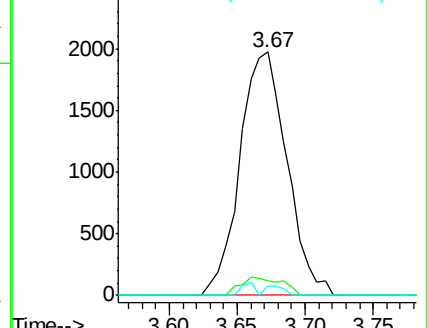
100 3.9 2.5 7.5



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 17.656 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

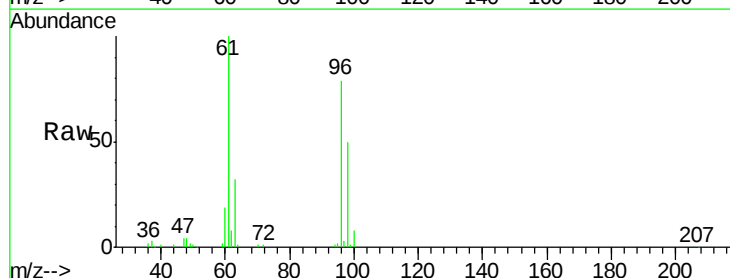
Tgt Ion: 96 Resp: 64974

Ion Ratio Lower Upper

96 100

61 125.5 0.0 285.6

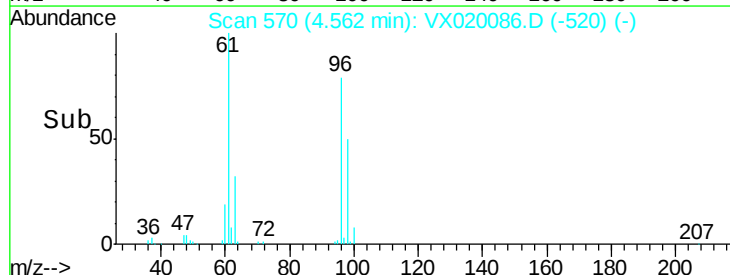
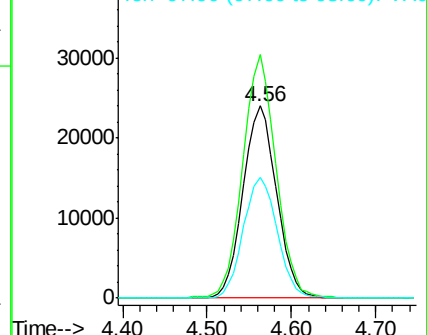
98 63.6 0.0 129.6

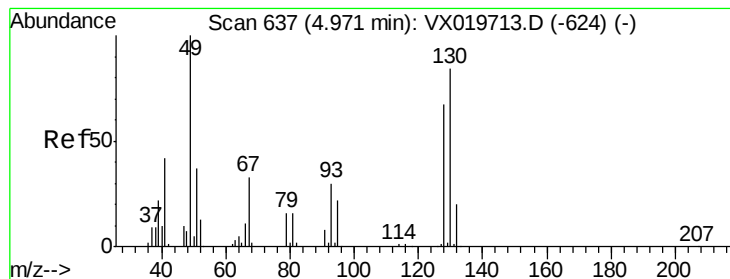


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: 0.343 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.21 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

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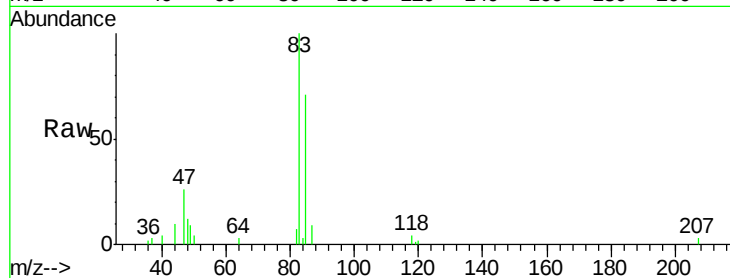
Tgt Ion: 49 Resp: 908

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

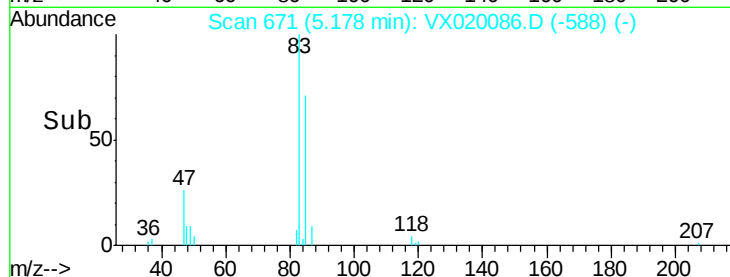
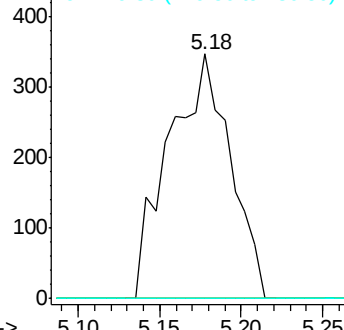
130 0.0 68.2 102.2#



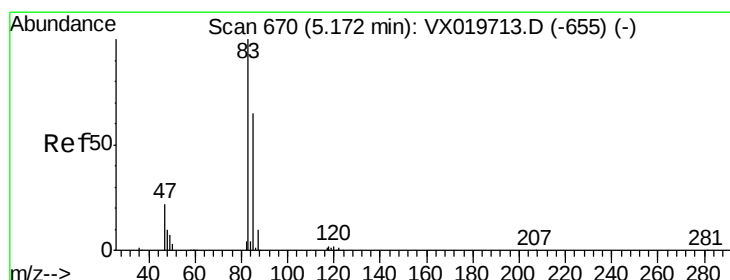
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->



#30

Chloroform

Concen: 2.095 ug/l

RT: 5.17 min Scan# 670

Delta R.T. 0.00 min

Lab File: VX020086.D

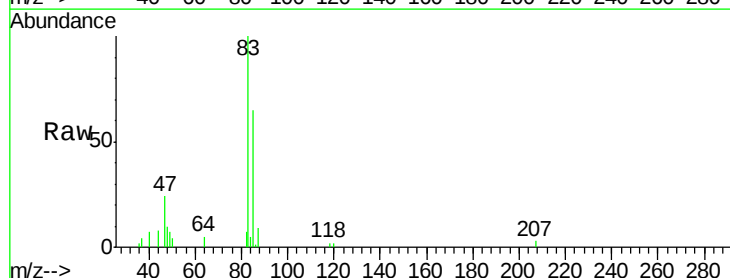
Acq: 16 Dec 2020 23:19

Tgt Ion: 83 Resp: 11965

Ion Ratio Lower Upper

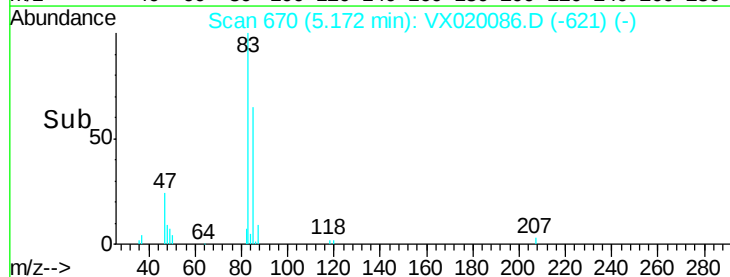
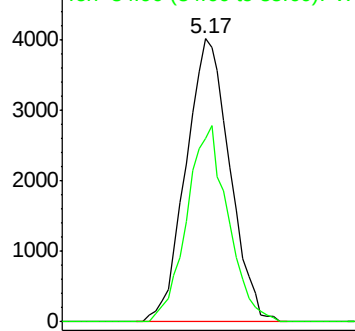
83 100

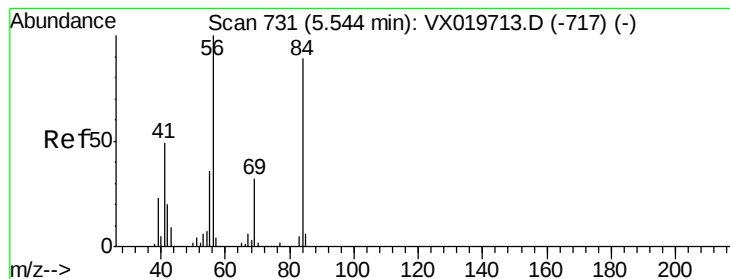
85 65.0 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.176 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

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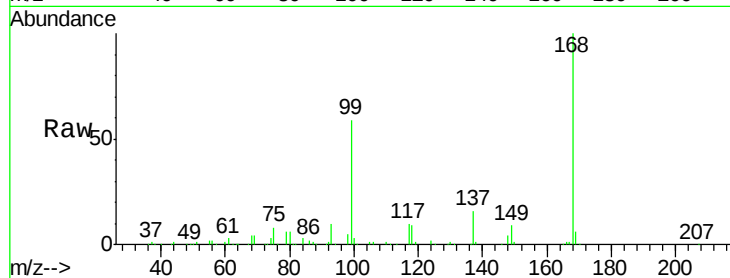
Tgt Ion: 56 Resp: 5662

Ion Ratio Lower Upper

56 100

69 212.5 25.3 37.9#

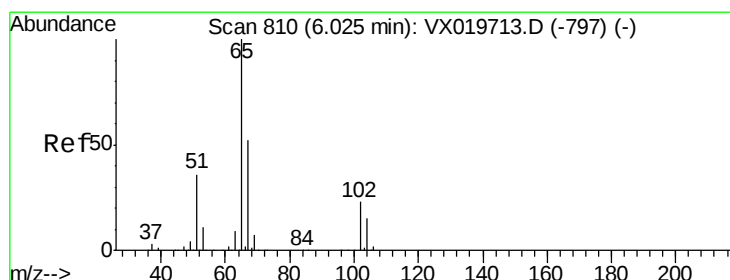
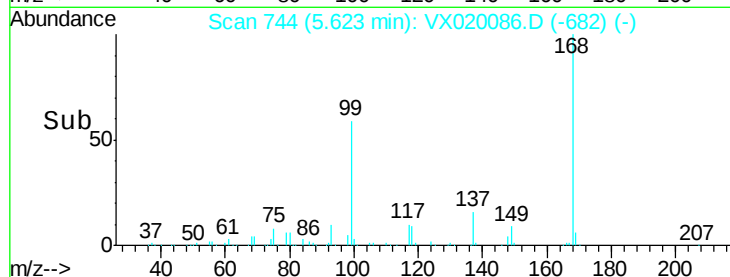
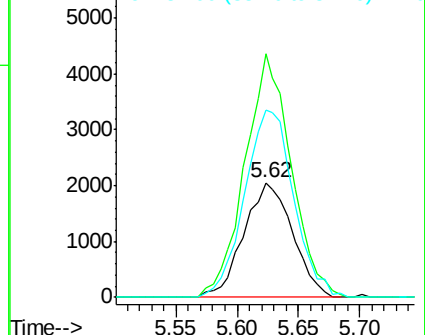
84 163.3 71.4 107.0#



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



#33

1,2-Dichloroethane-d4

Concen: 49.378 ug/l

RT: 6.03 min Scan# 810

Delta R.T. 0.00 min

Lab File: VX020086.D

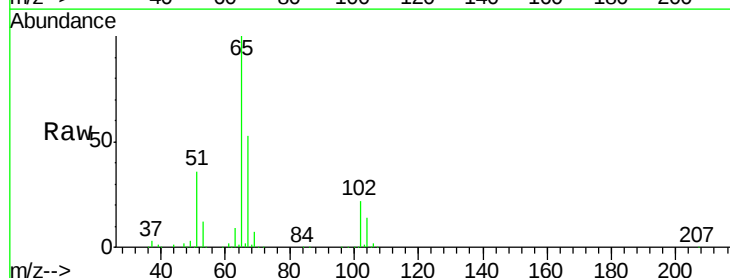
Acq: 16 Dec 2020 23:19

Tgt Ion: 65 Resp: 191054

Ion Ratio Lower Upper

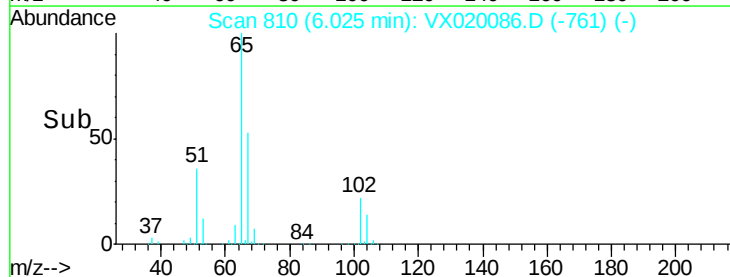
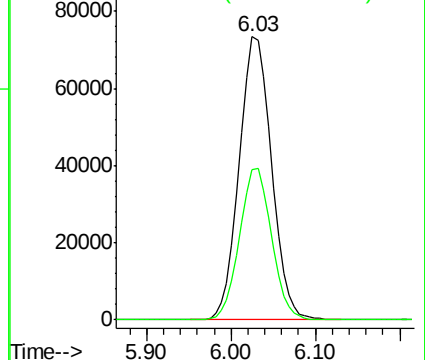
65 100

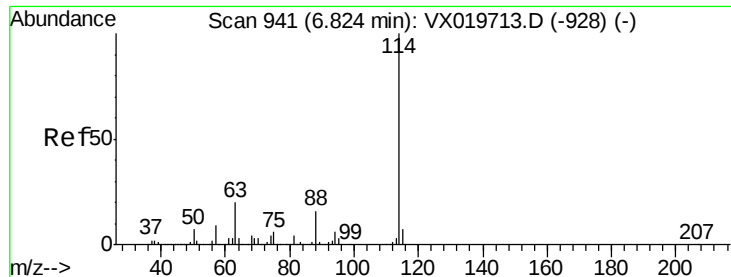
67 53.0 0.0 105.4



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: VX020086.D

Acq: 16 Dec 2020 23:19

Instrument :

MSVOA_X

ClientSampleId :

RE104D2-20201209

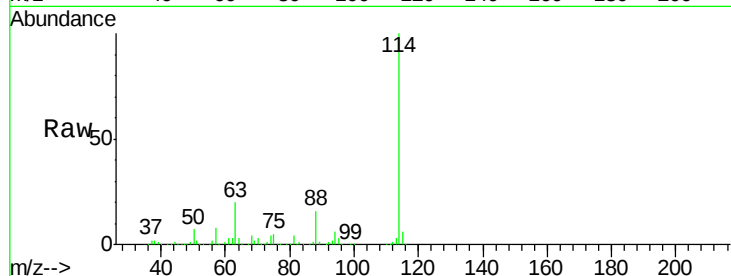
Tgt Ion:114 Resp: 495847

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

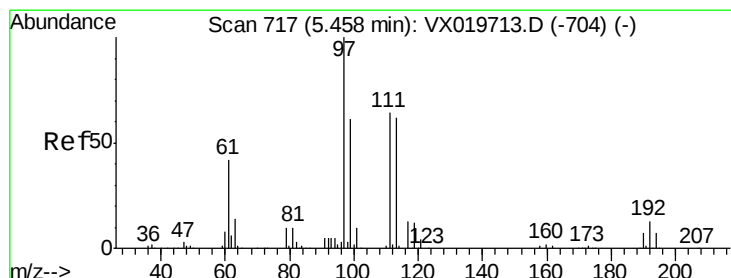
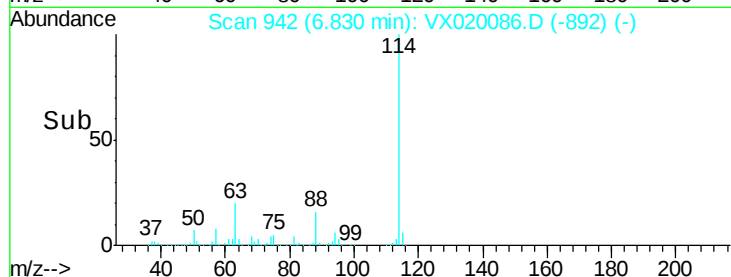
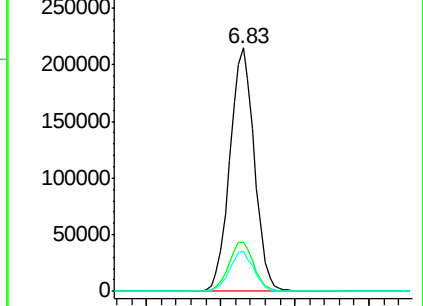
88 16.3 0.0 32.8



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: 48.334 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

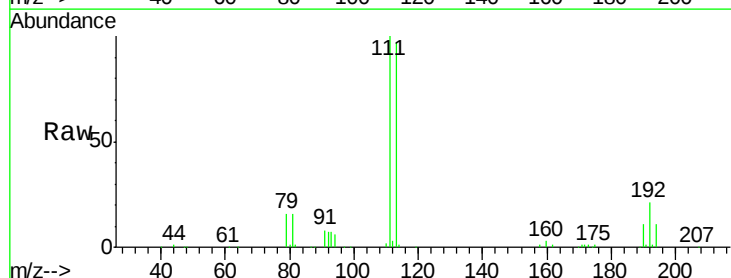
Tgt Ion:113 Resp: 154889

Ion Ratio Lower Upper

113 100

111 103.3 81.9 122.9

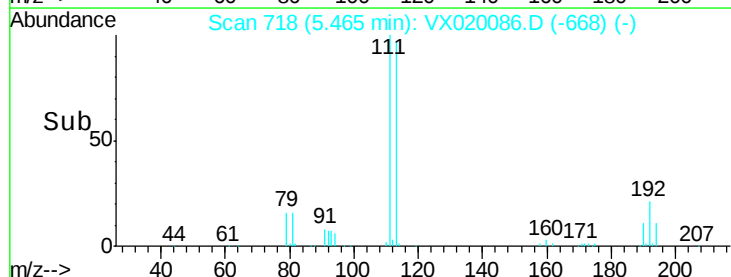
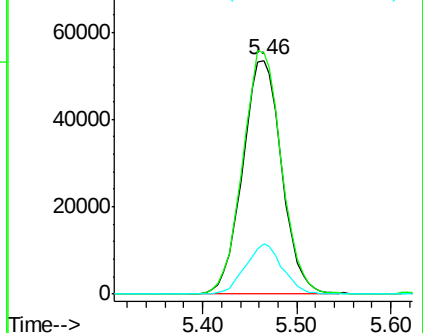
192 20.3 16.7 25.1

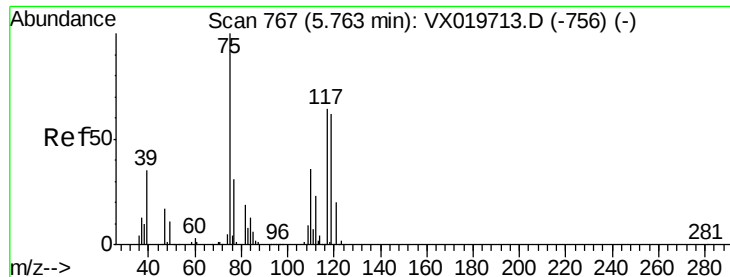


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

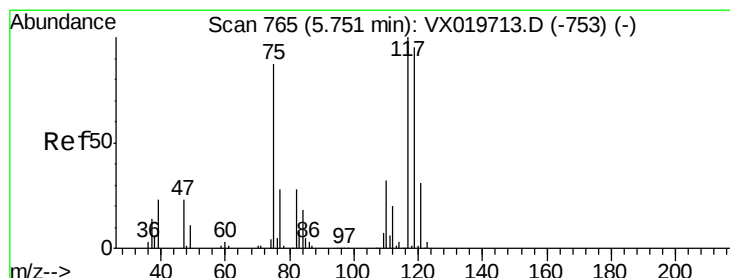
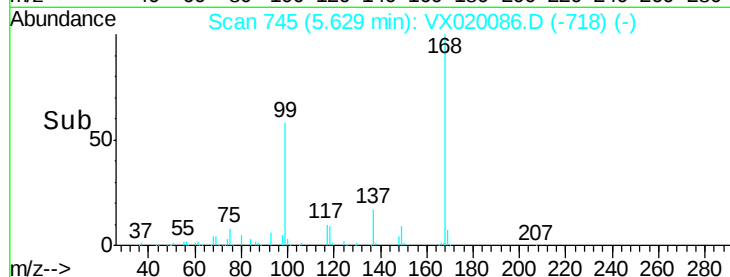
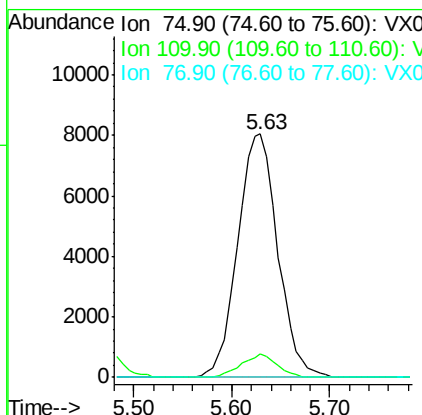
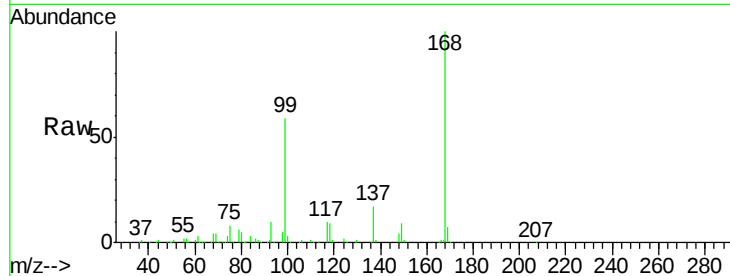




#36
 1,1-Dichloropropene
 Concen: 5.082 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX020086.D
 Acq: 16 Dec 2020 23:19

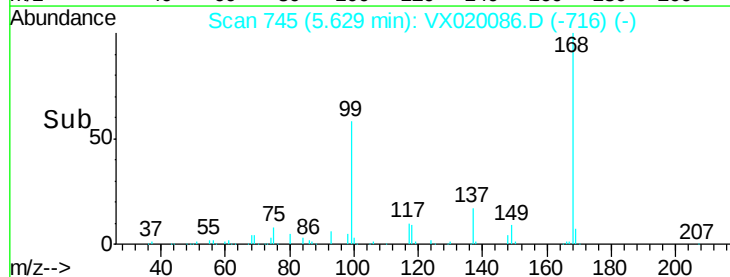
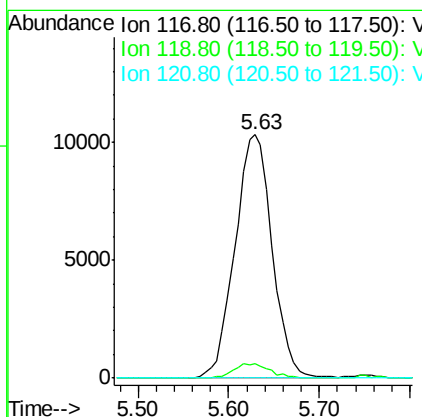
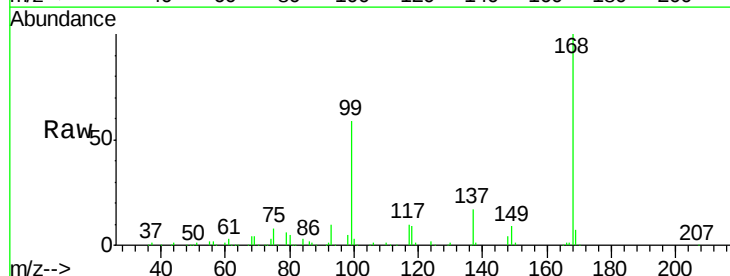
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20201209

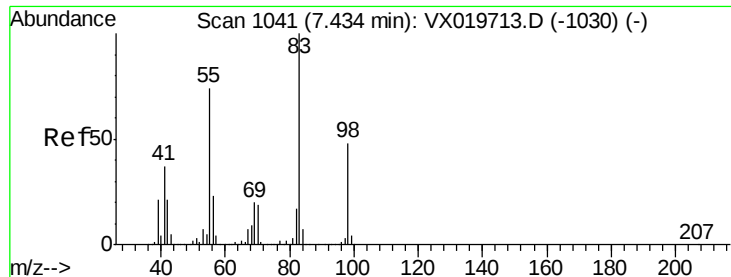
Tgt Ion: 75 Resp: 22770
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.4#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 6.670 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX020086.D
 Acq: 16 Dec 2020 23:19

Tgt Ion: 117 Resp: 29266
 Ion Ratio Lower Upper
 117 100
 119 6.0 76.2 114.2#
 121 0.0 24.8 37.2#

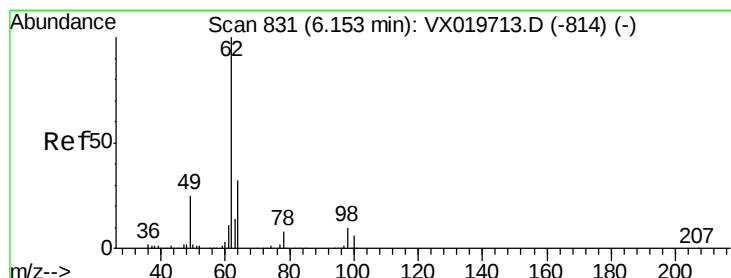
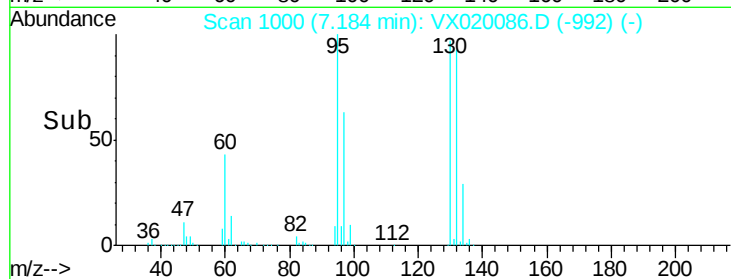
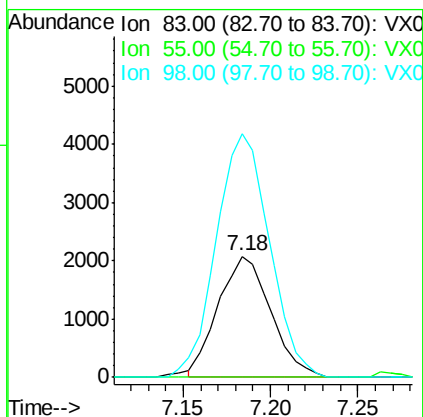
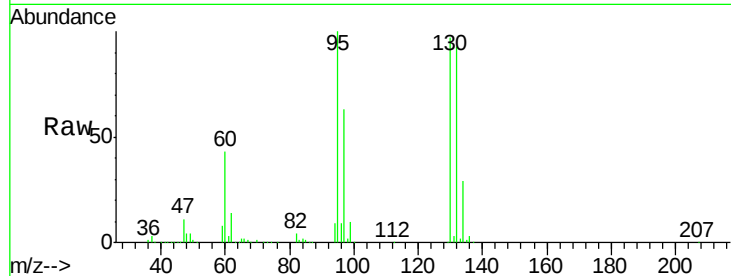




#39
Methylcyclohexane
Concen: 0.824 ug/l
RT: 7.18 min Scan# 1000
Delta R.T. -0.25 min
Lab File: VX020086.D
Acq: 16 Dec 2020 23:19

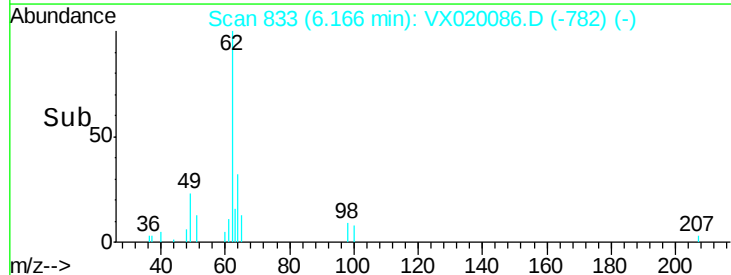
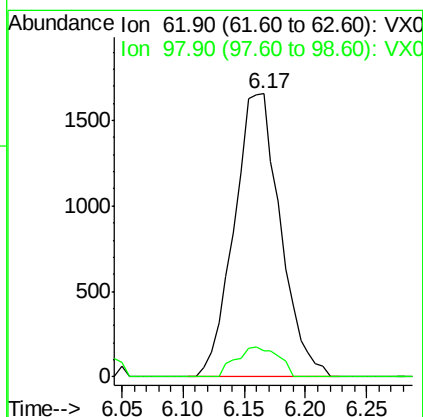
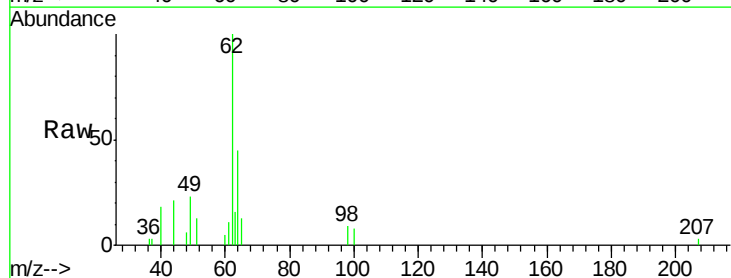
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20201209

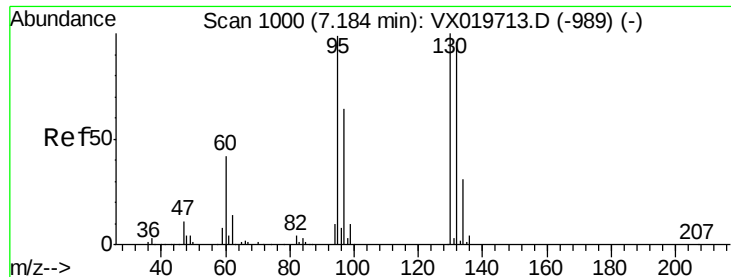
Tgt Ion: 83 Resp: 4336
Ion Ratio Lower Upper
83 100
55 0.0 58.9 88.3#
98 201.6 38.1 57.1#



#42
1,2-Dichloroethane
Concen: 0.930 ug/l
RT: 6.17 min Scan# 833
Delta R.T. 0.01 min
Lab File: VX020086.D
Acq: 16 Dec 2020 23:19

Tgt Ion: 62 Resp: 4348
Ion Ratio Lower Upper
62 100
98 9.6 0.0 20.2





#44

Trichloroethene

Concen: 99.242 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

Instrument :

MSVOA_X

ClientSampleId :

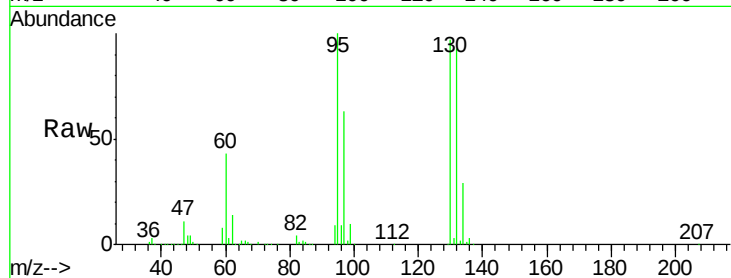
RE104D2-20201209

Tgt Ion:130 Resp: 356395

Ion Ratio Lower Upper

130 100

95 102.8 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

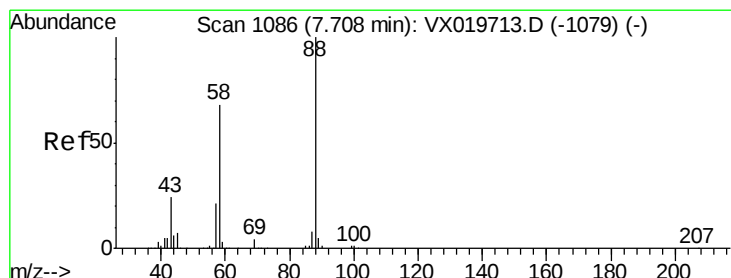
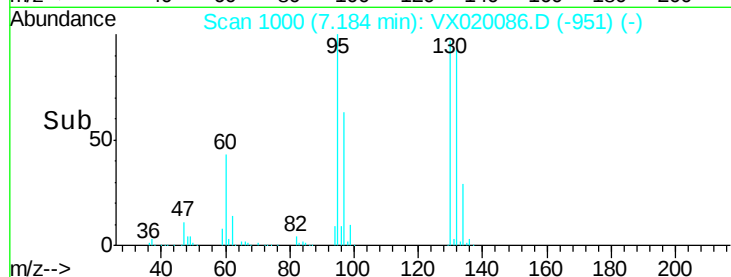
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 4.850 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.02 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

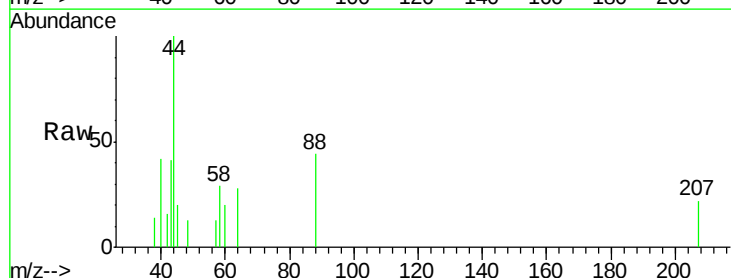
Tgt Ion: 88 Resp: 425

Ion Ratio Lower Upper

88 100

43 0.0 23.2 34.8#

58 63.3 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

7.73

250

200

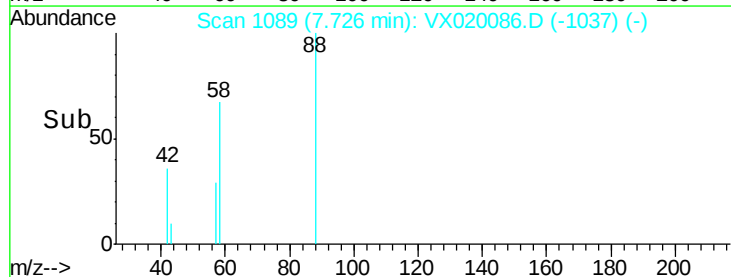
150

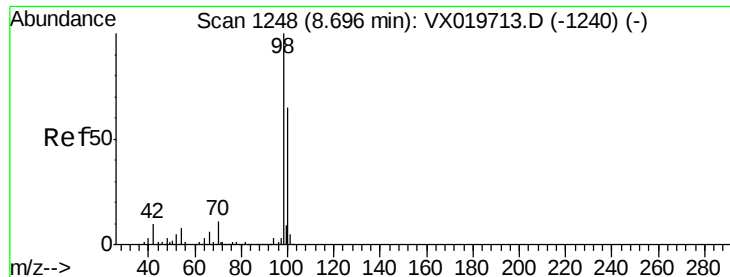
100

50

0

Time-->





#50

Toluene-d8

Concen: 49.012 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

Instrument :

MSVOA_X

ClientSampleId :

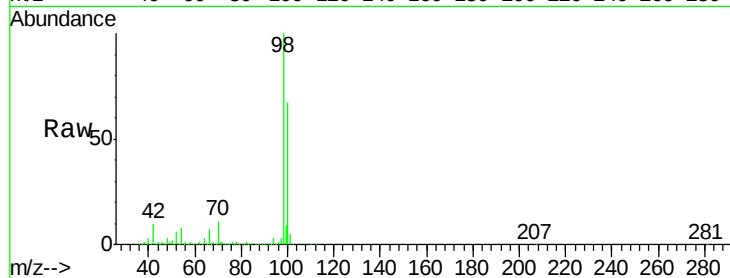
RE104D2-20201209

Tgt Ion: 98 Resp: 599627

Ion Ratio Lower Upper

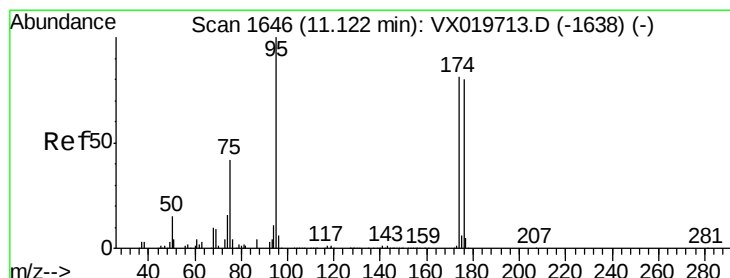
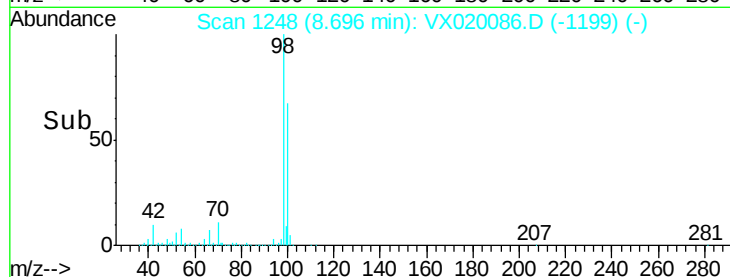
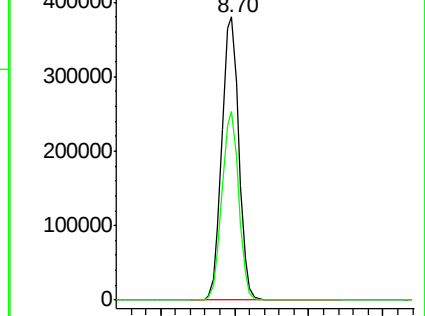
98 100

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): V



#62

4-Bromofluorobenzene

Concen: 43.253 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020086.D

Acq: 16 Dec 2020 23:19

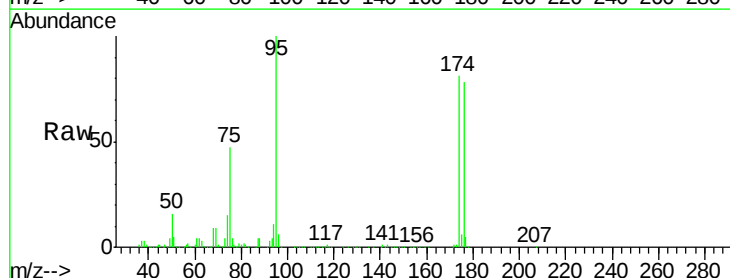
Tgt Ion: 95 Resp: 201409

Ion Ratio Lower Upper

95 100

174 76.6 0.0 154.6

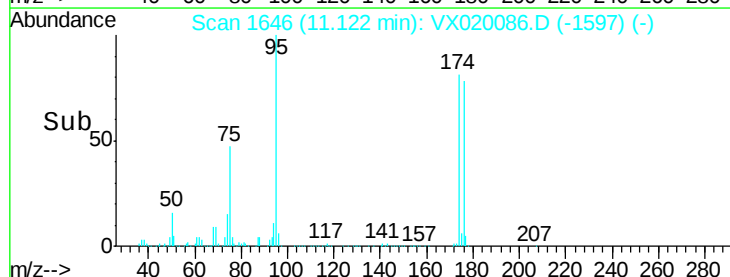
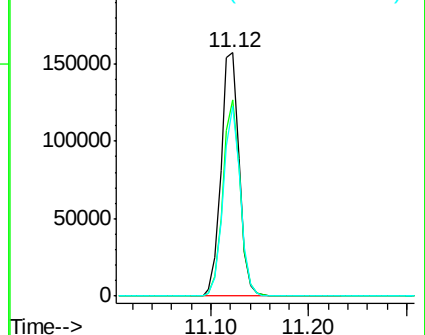
176 74.0 0.0 155.8

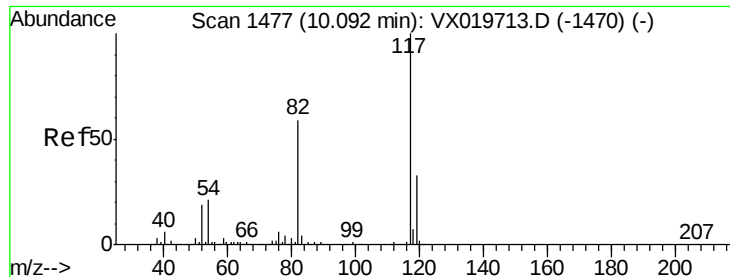


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

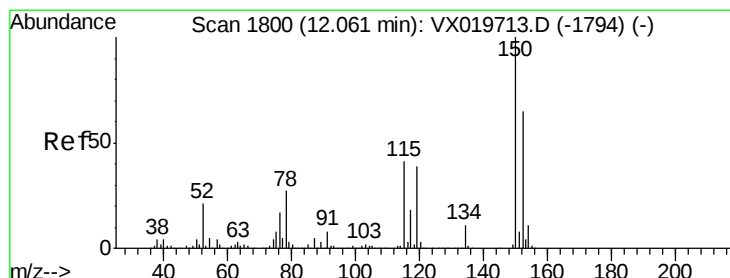
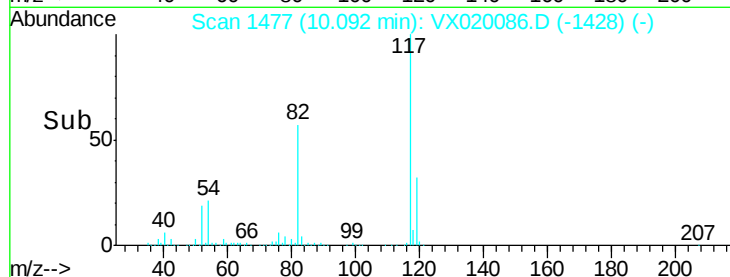
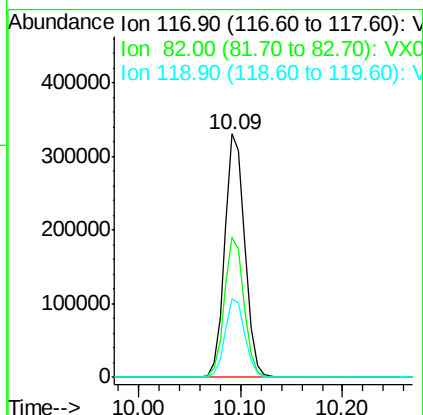
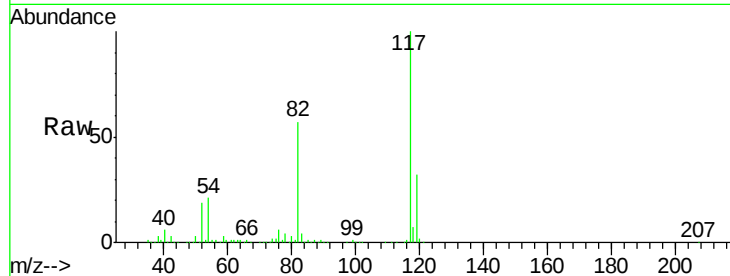




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX020086.D
Acq: 16 Dec 2020 23:19

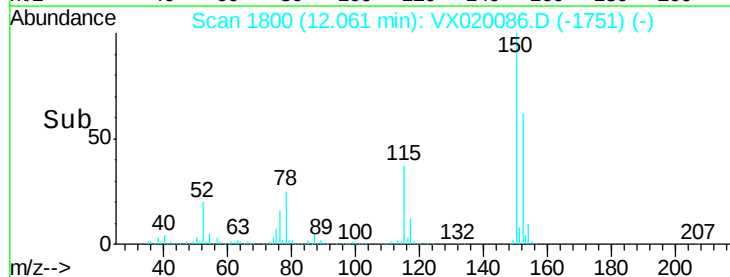
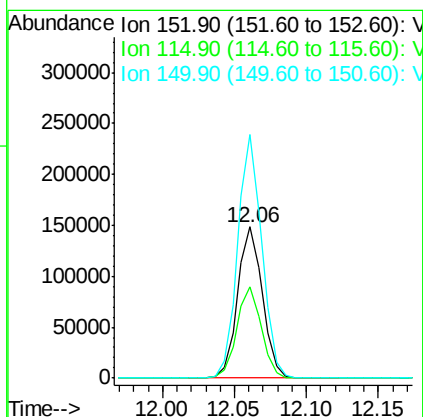
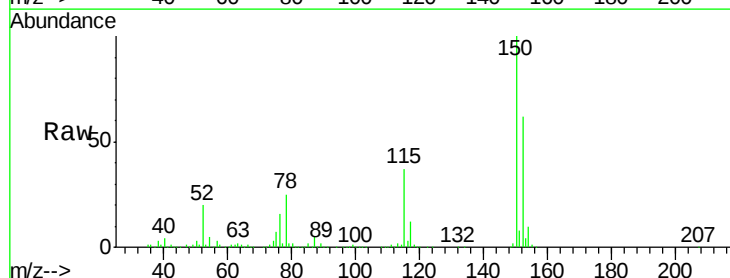
Instrument :
MSVOA_X
ClientSampleId :
RE104D2-20201209

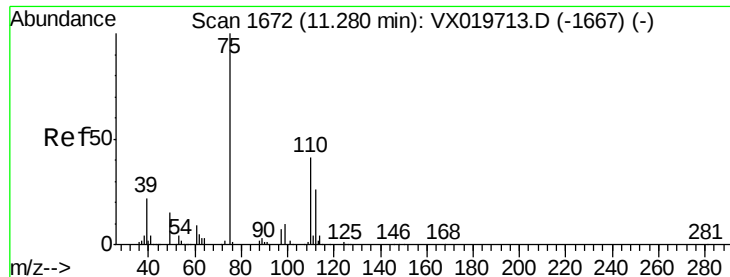
Tgt Ion:117 Resp: 446988
Ion Ratio Lower Upper
117 100
82 57.5 47.4 71.2
119 32.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX020086.D
Acq: 16 Dec 2020 23:19

Tgt Ion:152 Resp: 177820
Ion Ratio Lower Upper
152 100
115 59.8 41.1 123.3
150 157.2 0.0 349.0

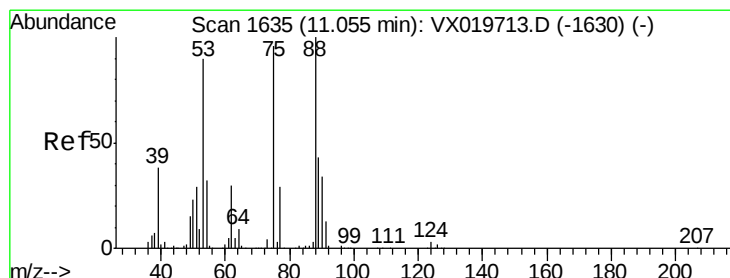
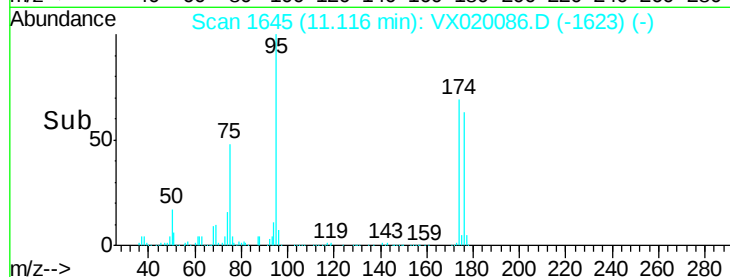
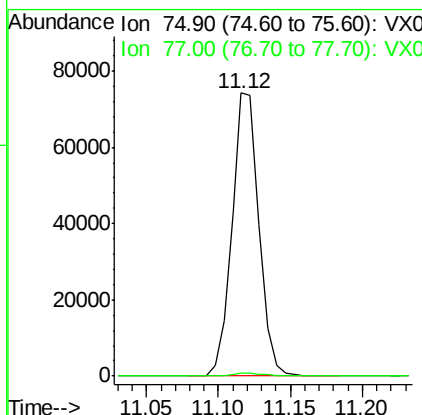
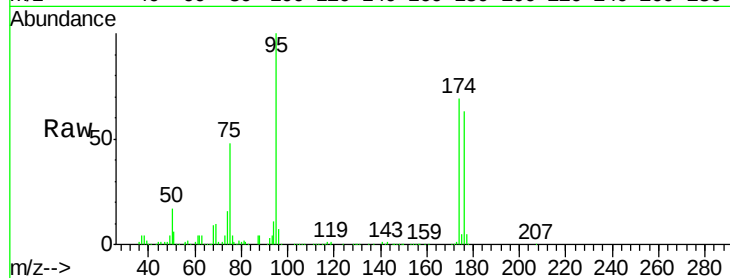




#76
 1,2,3-Trichloropropane
 Concen: 24.329 ug/l
 RT: 11.12 min Scan# 1645
 Delta R.T. -0.16 min
 Lab File: VX020086.D
 Acq: 16 Dec 2020 23:19

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D2-20201209

Tgt Ion: 75 Resp: 97027
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.329 ug/l
 RT: 11.12 min Scan# 1645
 Delta R.T. 0.06 min
 Lab File: VX020086.D
 Acq: 16 Dec 2020 23:19

Tgt Ion: 75 Resp: 97027
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

