

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054605.D
 Acq On : 23 Mar 2019 15:32
 Operator : JC/SP
 Sample : K1912-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M3-T2-OZ(PRE)

Quant Time: Mar 25 03:31:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	610310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	954410	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	806444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	290609	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	424921	55.97	ug/l	0.00
Spiked Amount			Recovery	=	111.94%	
35) Dibromofluoromethane	7.59	113	323041	52.54	ug/l	0.00
Spiked Amount			Recovery	=	105.08%	
50) Toluene-d8	10.09	98	1233501	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
62) 4-Bromofluorobenzene	12.40	95	384190	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	

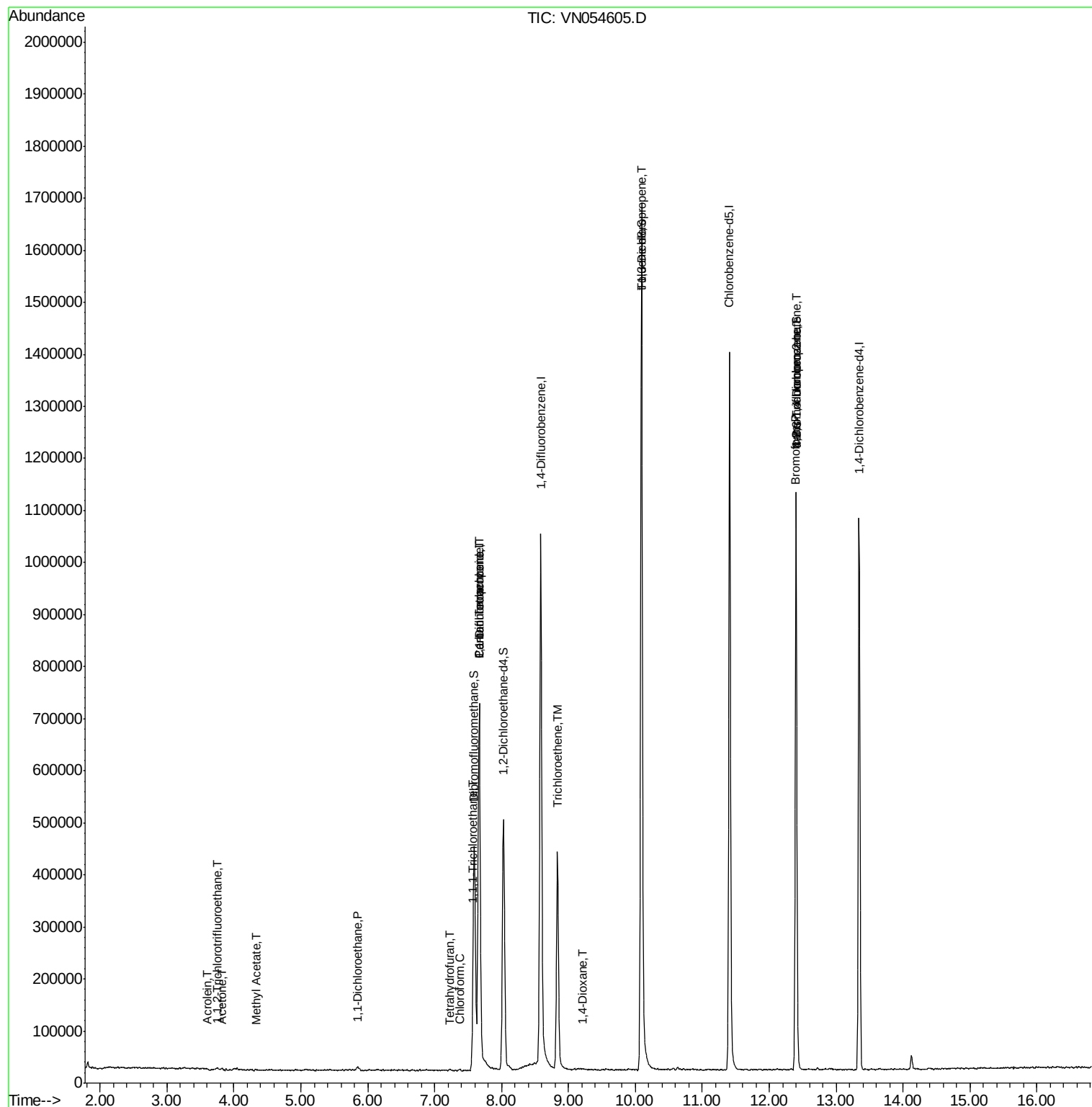
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.75	101	1947	0.342	ug/l #	35
13) Acrolein	3.61	56	199	0.314	ug/l #	1
16) Acetone	3.82	43	3753	1.644	ug/l #	87
18) Methyl Acetate	4.34	43	1392	0.274	ug/l #	49
24) 1,1-Dichloroethane	5.85	63	9178	0.780	ug/l #	86
29) Tetrahydrofuran	7.23	42	822	0.433	ug/l #	84
30) Chloroform	7.38	83	2840	0.247	ug/l	91
31) Cyclohexane	7.66	56	12727	Below Cal	#	22
32) 1,1,1-Trichloroethane	7.56	97	3455	0.365	ug/l #	43
36) 1,1-Dichloropropene	7.67	75	46184	5.175	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56969	6.569	ug/l #	16
44) Trichloroethene	8.83	130	157969	22.266	ug/l	91
49) 1,4-Dioxane	9.21	88	97	1.491	ug/l #	51
53) t-1,3-Dichloropropene	10.10	75	62	2.239	ug/l #	55
71) Bromoform	12.39	173	534	2.346	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	197160	42.754	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	197160	141.210	ug/l #	11

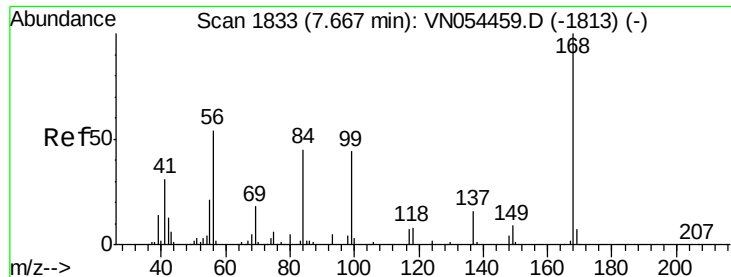
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

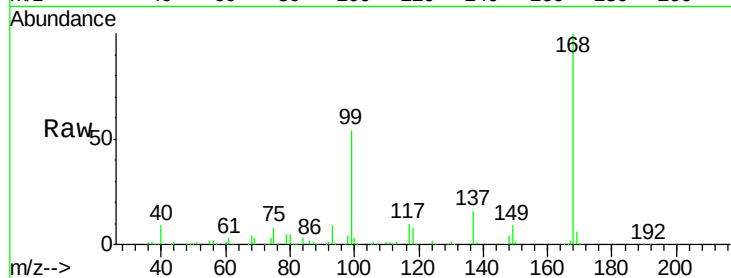
M3-T2-OZ(PRE)

Tot Ion:168 Resp: 610310

Ion Ratio Lower Upper

168 100

99 54.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

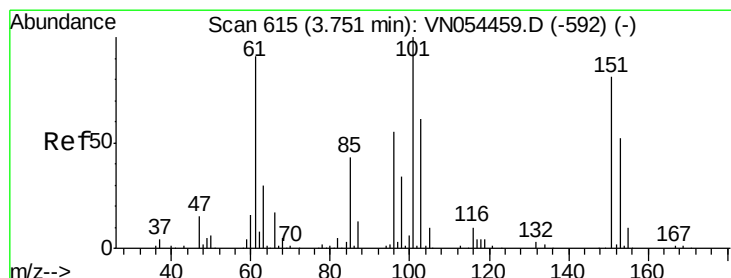
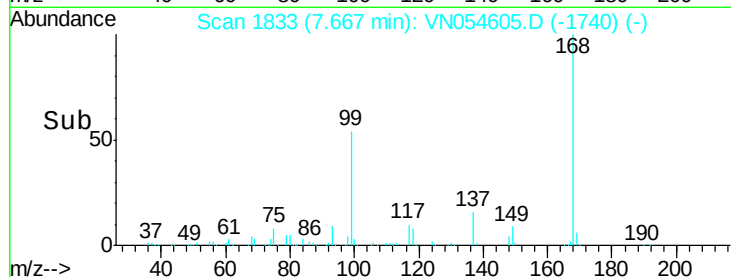
100000

50000

0

Time-->

7.60 7.70 7.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.342 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

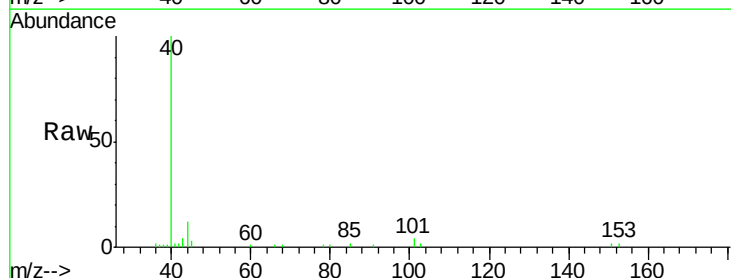
Tgt Ion:101 Resp: 1947

Ion Ratio Lower Upper

101 100

85 36.1 32.4 48.6

151 0.0 68.2 102.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

1000

800

600

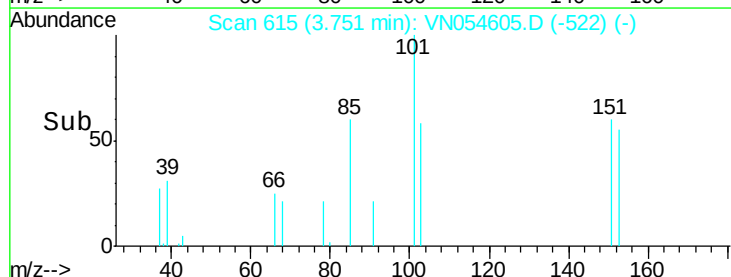
400

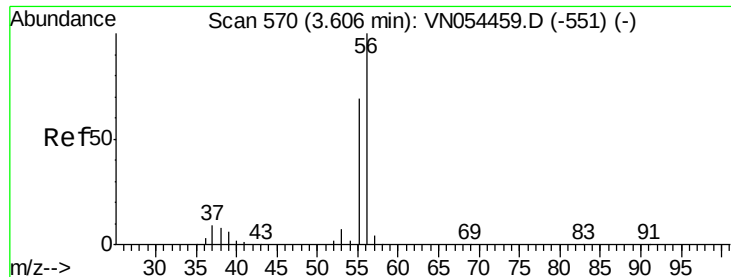
200

0

Time-->

3.70 3.75 3.80





#13

Acrolein

Concen: 0.314 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

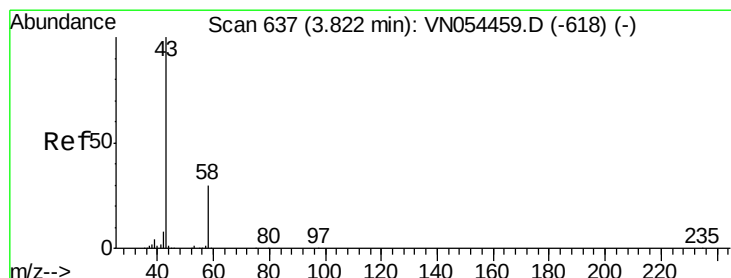
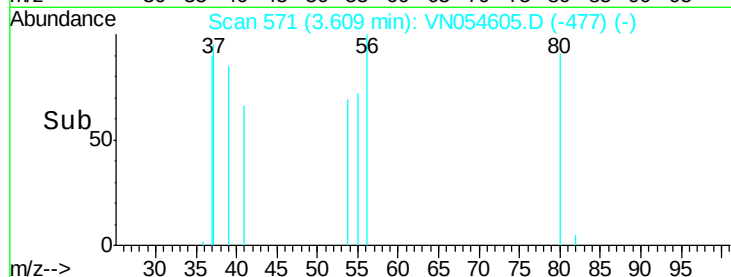
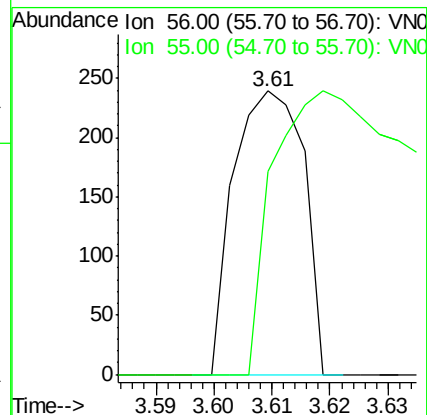
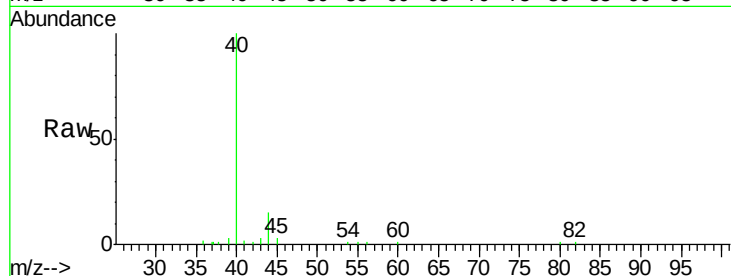
M3-T2-OZ(PRE)

Tot Ion: 56 Resp: 199

Ion Ratio Lower Upper

56 100

55 197.5 56.7 85.1#



#16

Acetone

Concen: 1.644 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054605.D

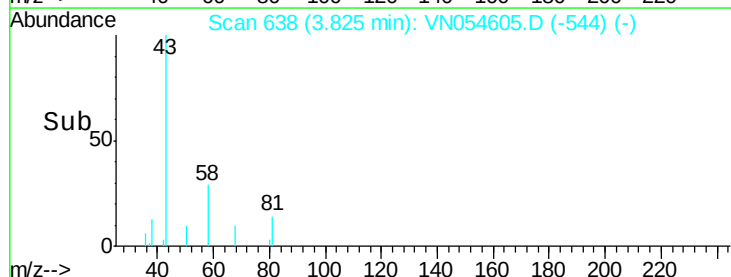
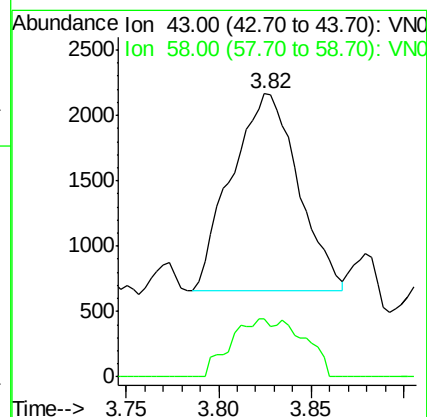
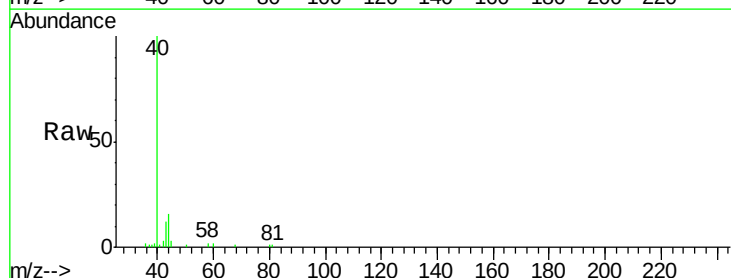
Acq: 23 Mar 2019 15:32

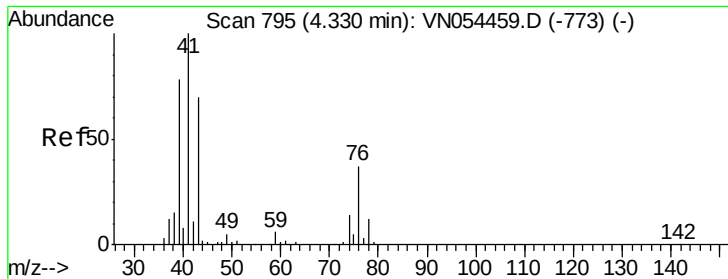
Tgt Ion: 43 Resp: 3753

Ion Ratio Lower Upper

43 100

58 29.5 29.9 44.9#





#18

Methyl Acetate

Concen: 0.274 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

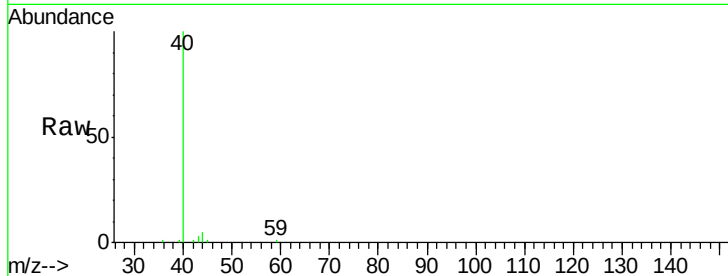
M3-T2-OZ(PRE)

Tot Ion: 43 Resp: 1392

Ion Ratio Lower Upper

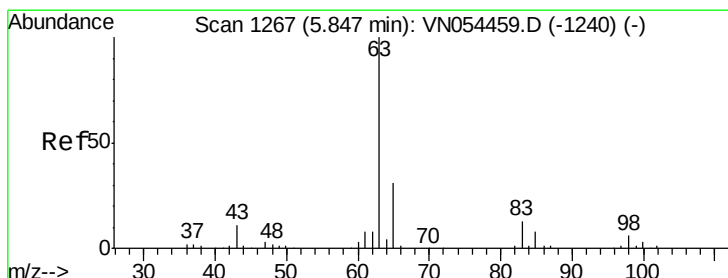
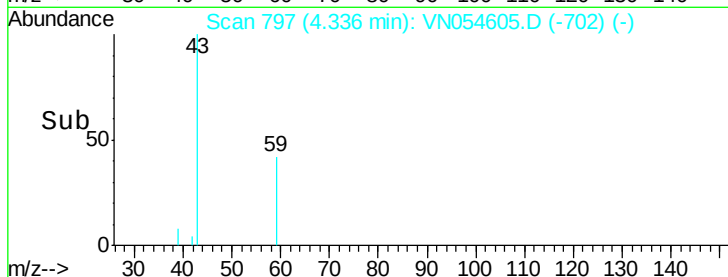
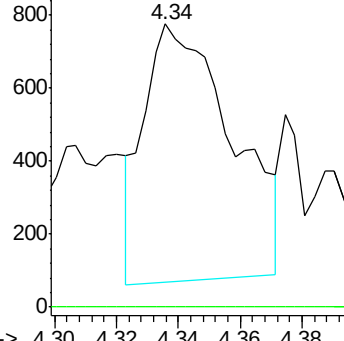
43 100

74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#24

1,1-Dichloroethane

Concen: 0.780 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.01 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

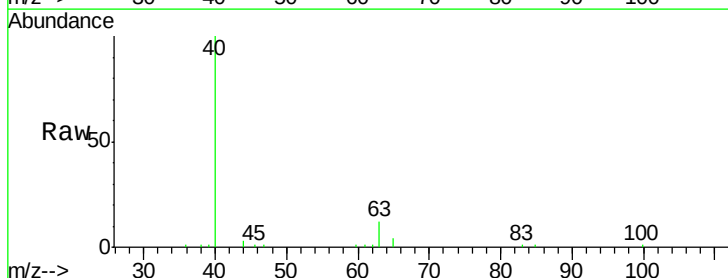
Tgt Ion: 63 Resp: 9178

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.5#

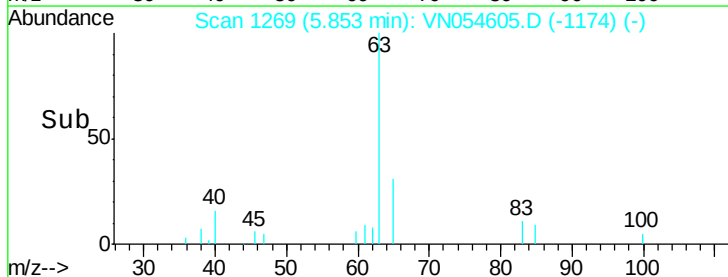
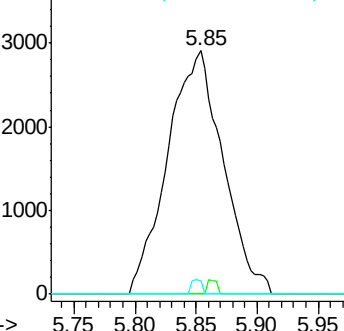
100 5.3 2.0 6.0

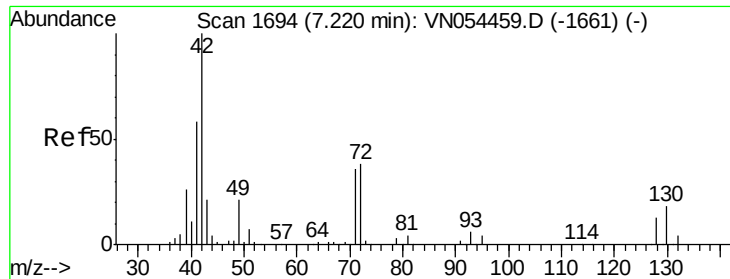


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#29

Tetrahydrofuran

Concen: 0.433 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

M3-T2-OZ(PRE)

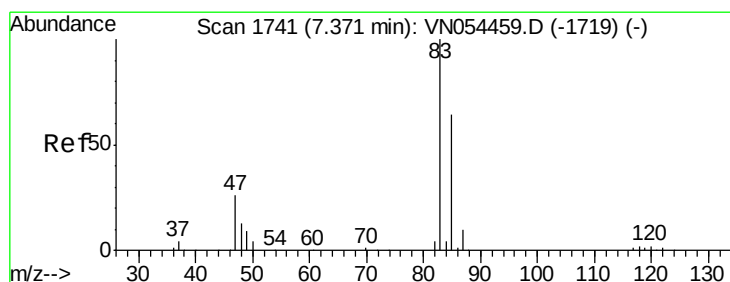
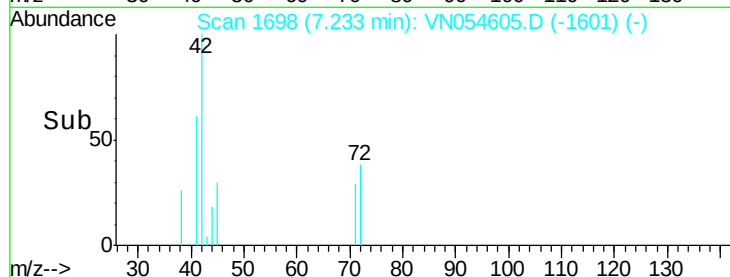
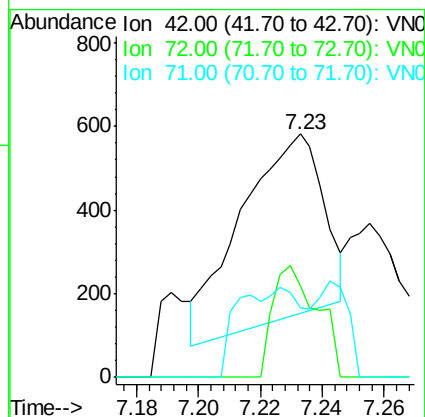
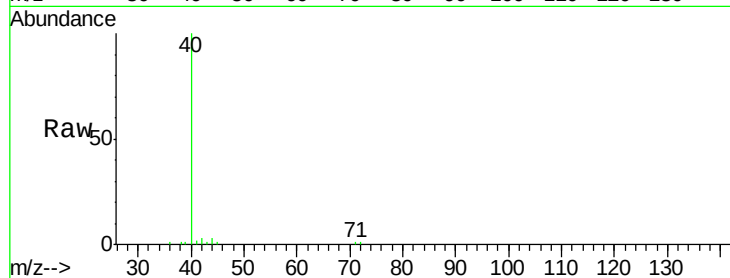
Tot Ion: 42 Resp: 822

Ion Ratio Lower Upper

42 100

72 32.2 37.8 56.6#

71 39.2 36.2 54.2



#30

Chloroform

Concen: 0.247 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN054605.D

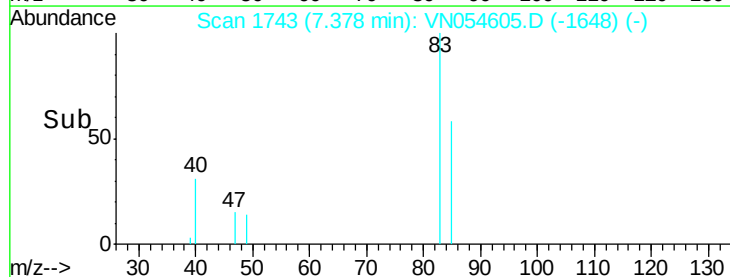
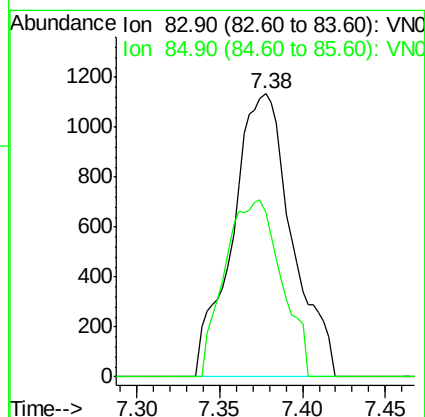
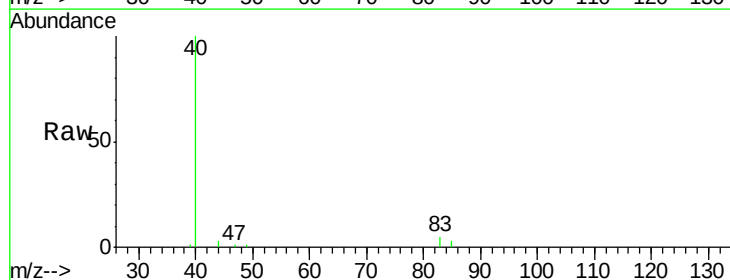
Acq: 23 Mar 2019 15:32

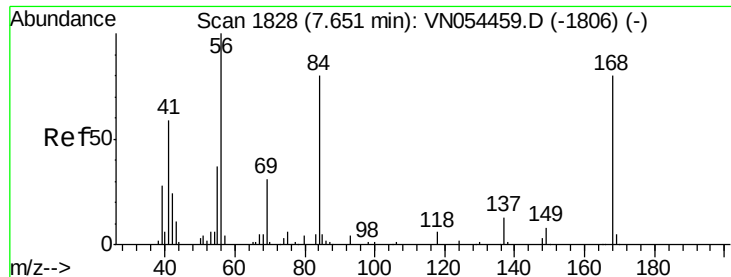
Tgt Ion: 83 Resp: 2840

Ion Ratio Lower Upper

83 100

85 58.3 52.2 78.4





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

M3-T2-OZ(PRE)

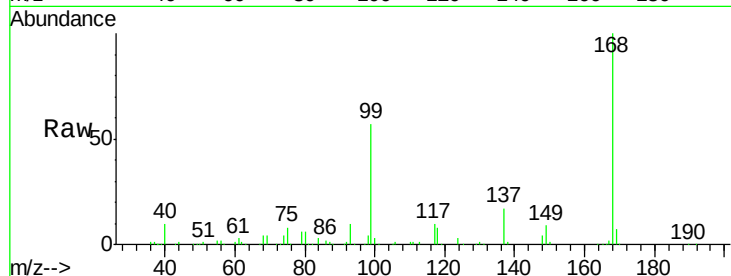
Tot Ion: 56 Resp: 12727

Ion Ratio Lower Upper

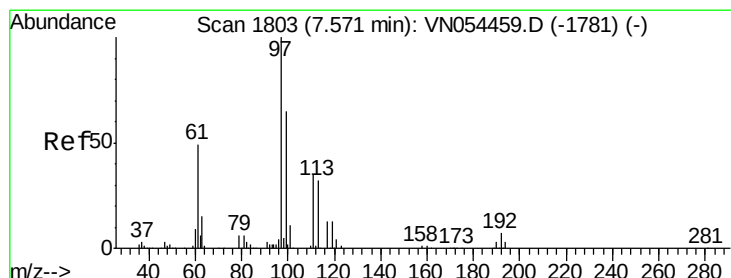
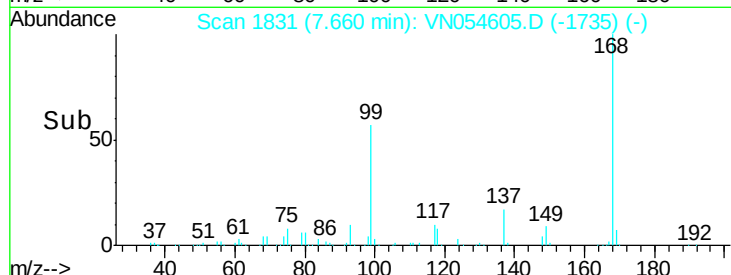
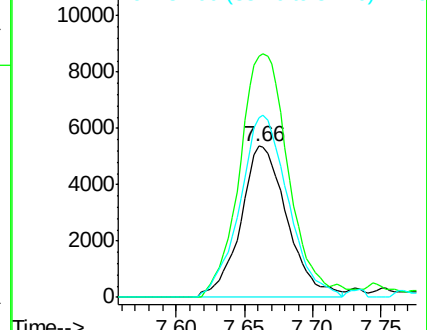
56 100

69 160.0 27.8 41.6#

84 118.8 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 0.365 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.01 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

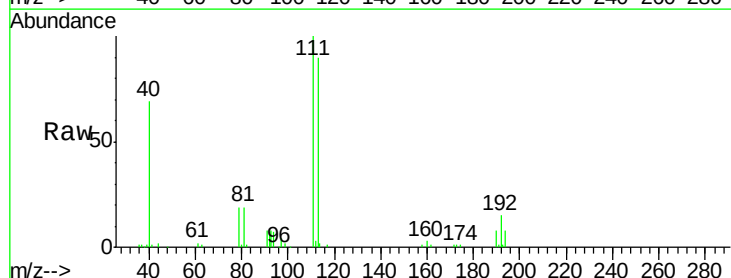
Tgt Ion: 97 Resp: 3455

Ion Ratio Lower Upper

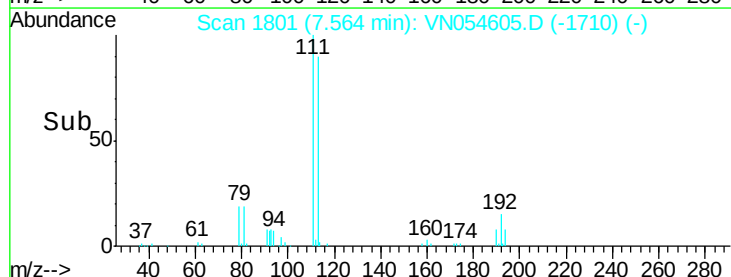
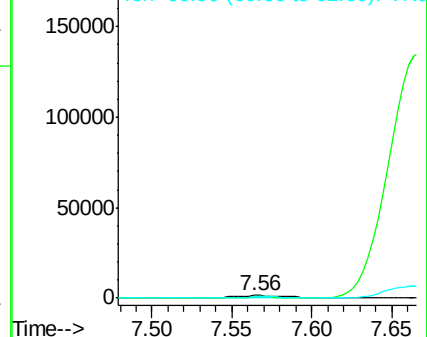
97 100

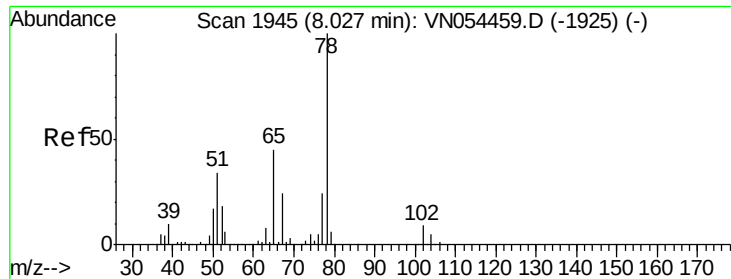
99 0.0 51.5 77.3#

61 53.3 33.6 50.4#



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 98.90 (98.60 to 99.60): VNC
Ion 60.90 (60.60 to 61.60): VNC

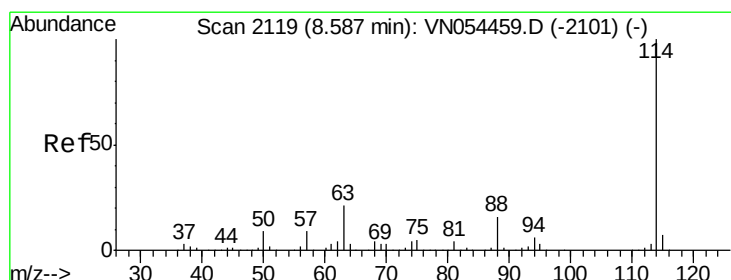
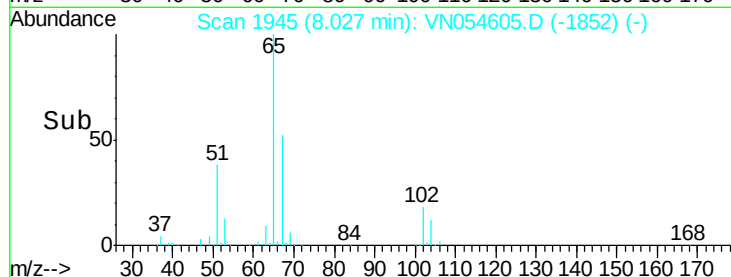
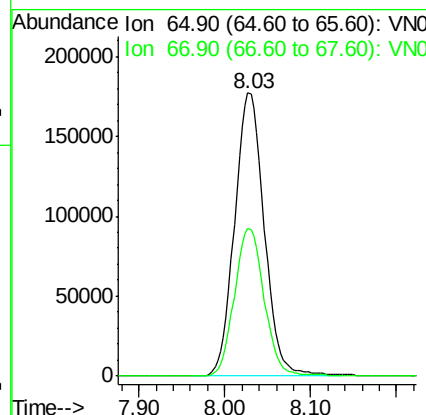
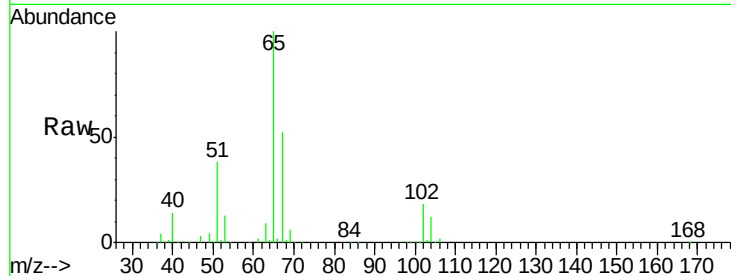




#33
 1,2-Dichloroethane-d4
 Concen: 55.975 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054605.D
 Acq: 23 Mar 2019 15:32

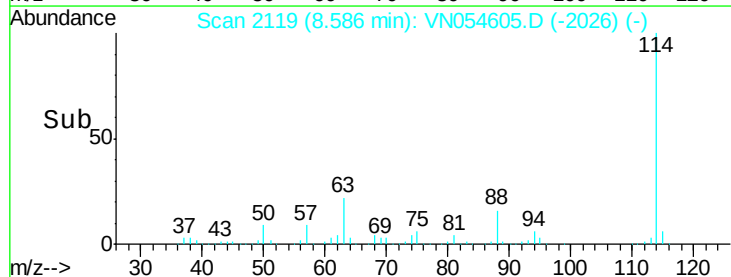
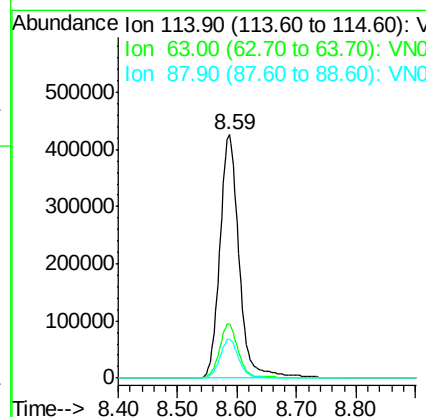
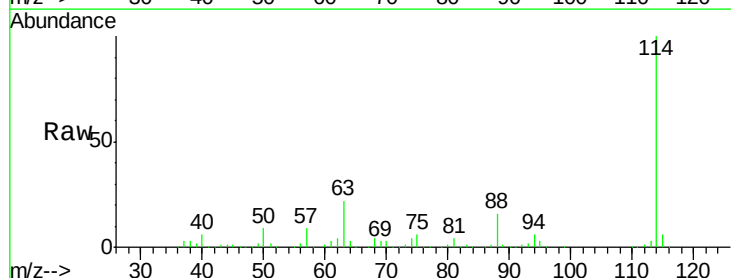
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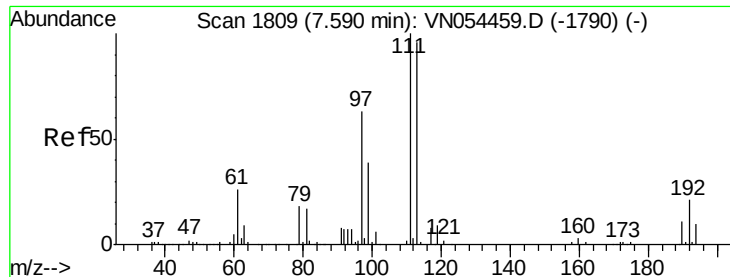
Tot Ion: 65 Resp: 424921
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054605.D
 Acq: 23 Mar 2019 15:32

Tgt Ion: 114 Resp: 954410
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 35.2
 88 16.0 0.0 30.2

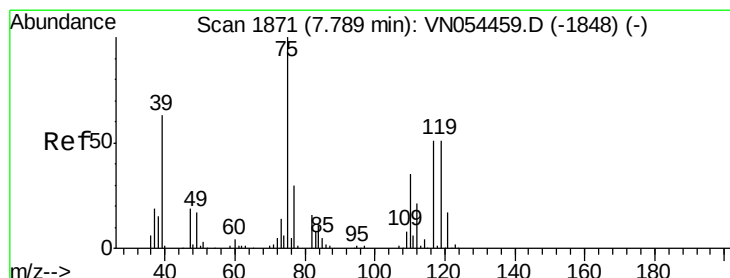
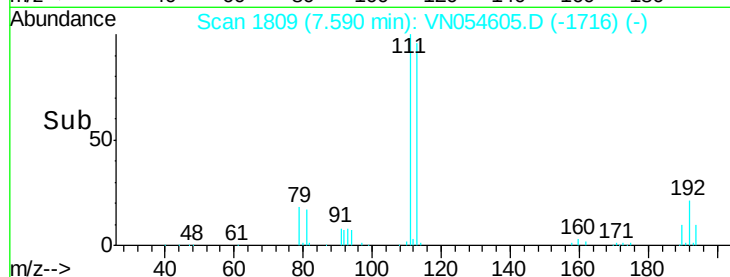
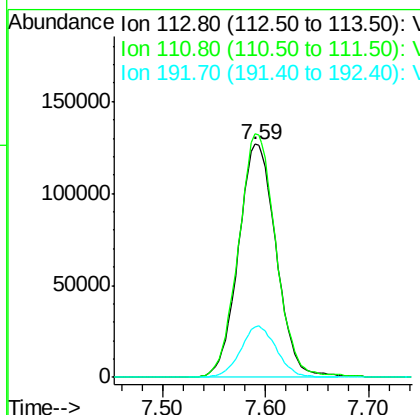
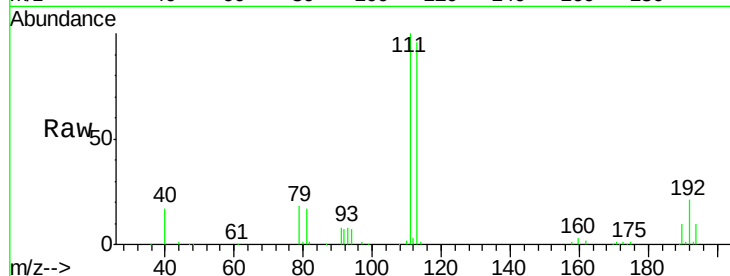




#35
 Dibromofluoromethane
 Concen: 52.537 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054605.D
 Acq: 23 Mar 2019 15:32

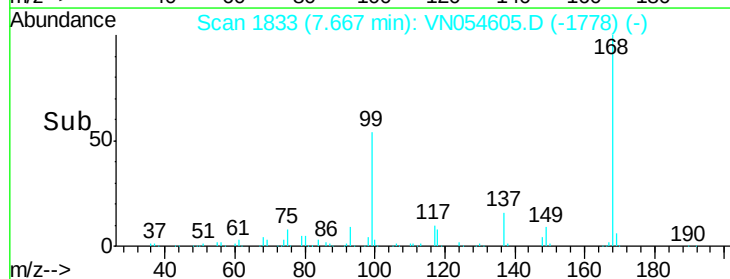
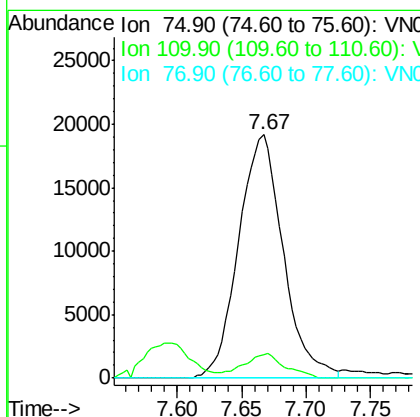
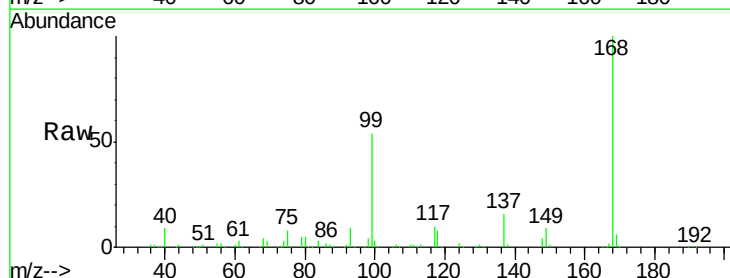
Instrument :
 MSVOA_N
 ClientSampleId :
 M3-T2-OZ(PRE)

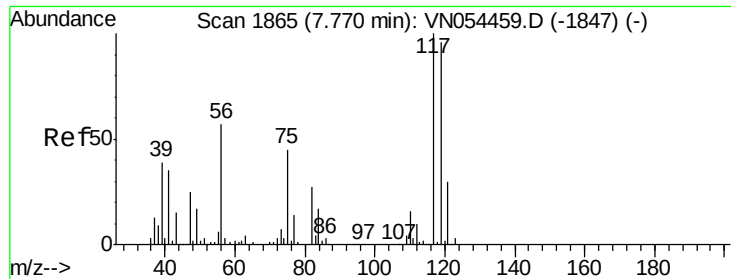
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.2	123.4
192	20.9	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.175 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054605.D
 Acq: 23 Mar 2019 15:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.569 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

M3-T2-OZ(PRE)

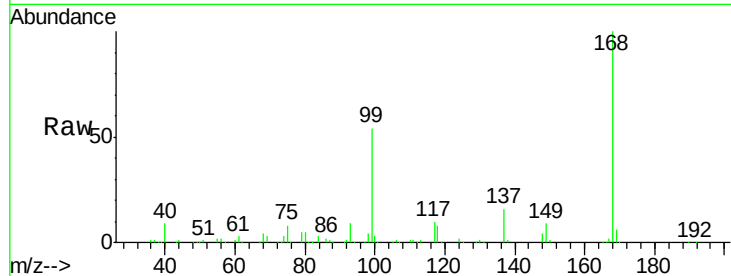
Tot Ion:117 Resp: 56969

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

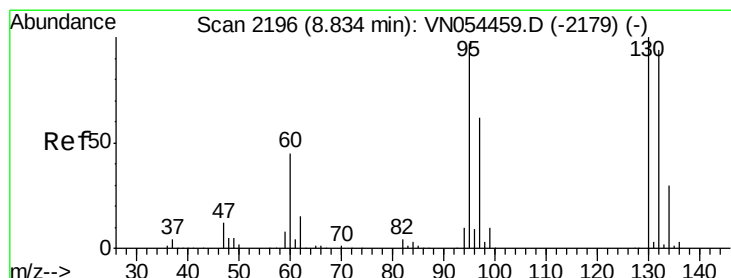
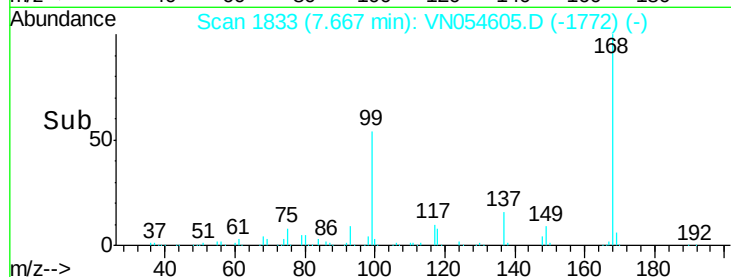
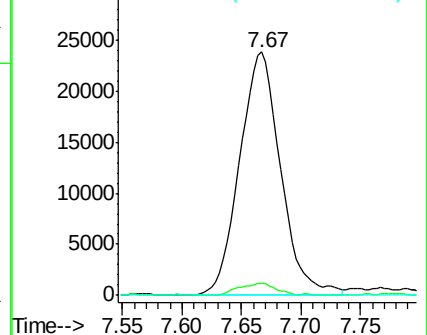
121 0.0 24.6 36.8#



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: 22.266 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN054605.D

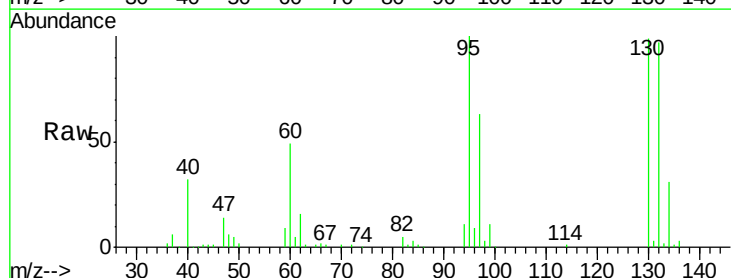
Acq: 23 Mar 2019 15:32

Tgt Ion:130 Resp: 157969

Ion Ratio Lower Upper

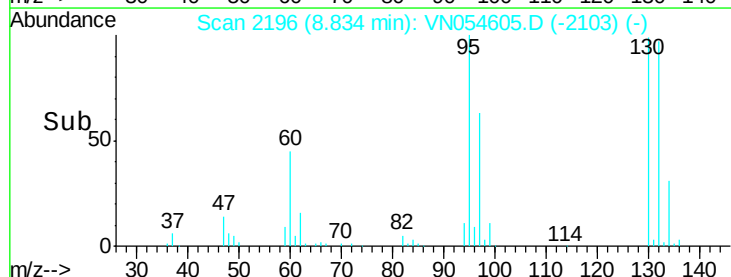
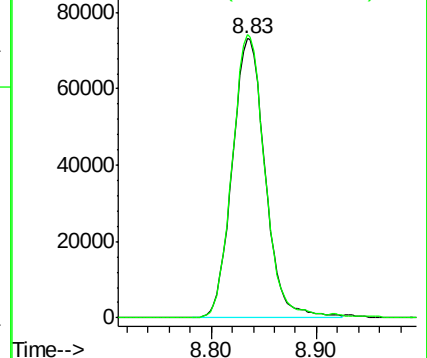
130 100

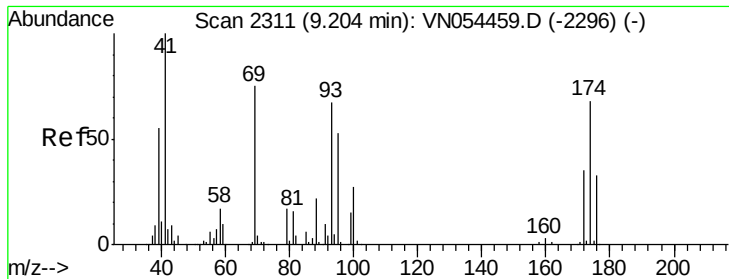
95 101.5 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#49

1,4-Dioxane

Concen: 1.491 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.01 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

M3-T2-OZ(PRE)

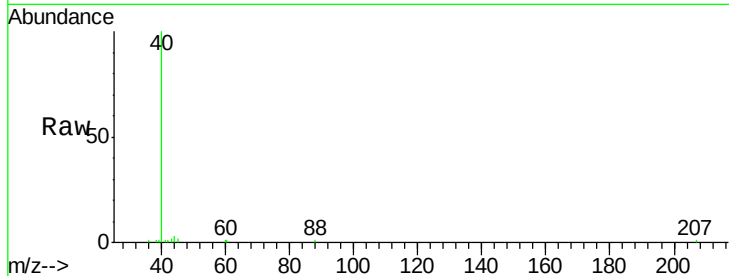
Tot Ion: 88 Resp: 97

Ion Ratio Lower Upper

88 100

43 67.0 24.1 36.1#

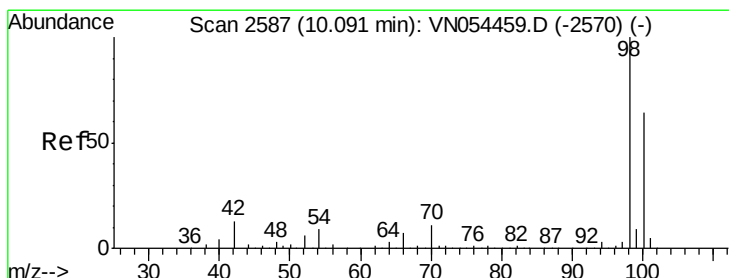
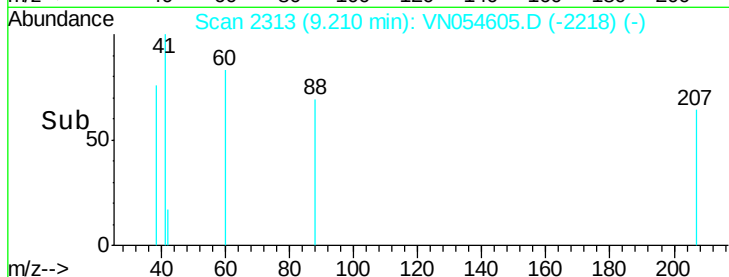
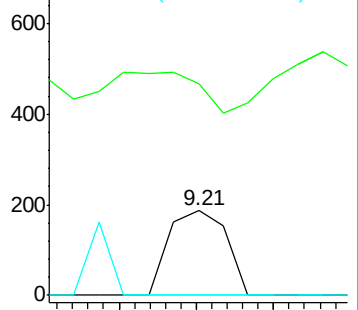
58 32.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 53.362 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054605.D

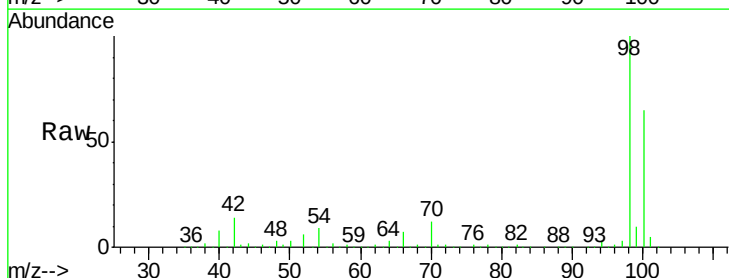
Acq: 23 Mar 2019 15:32

Tgt Ion: 98 Resp: 1233501

Ion Ratio Lower Upper

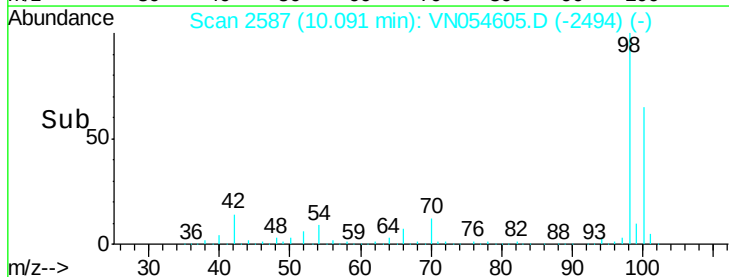
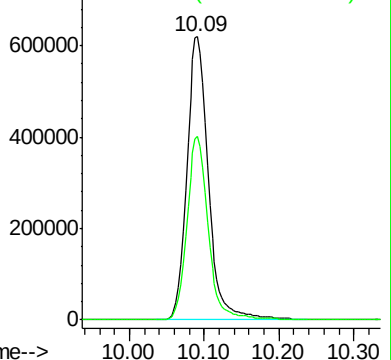
98 100

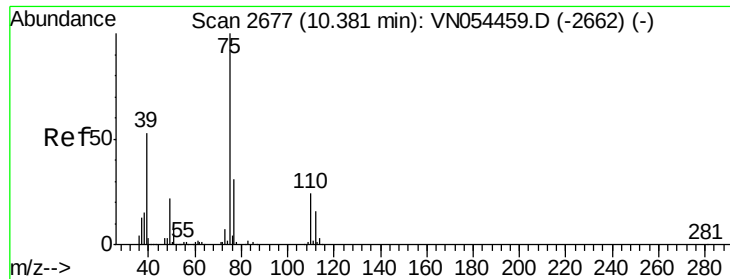
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 2.239 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.28 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

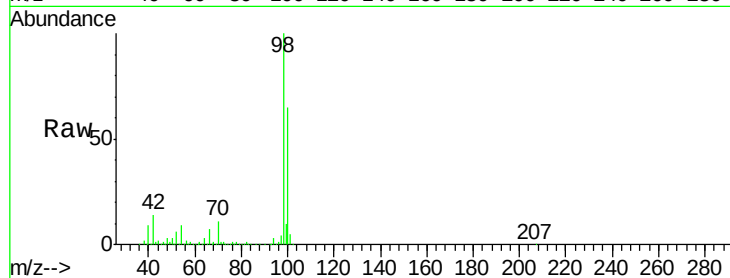
M3-T2-OZ(PRE)

Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

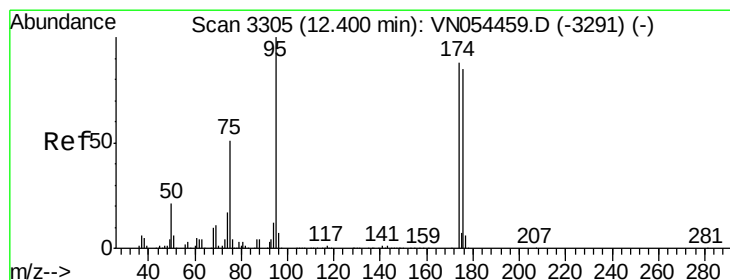
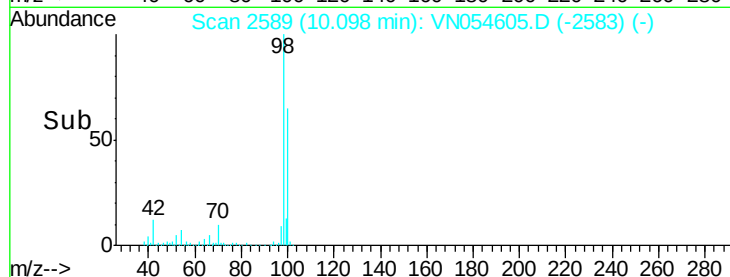
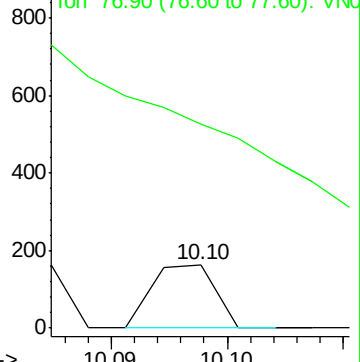
75 100

77 57.7 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#62

4-Bromofluorobenzene

Concen: 48.843 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

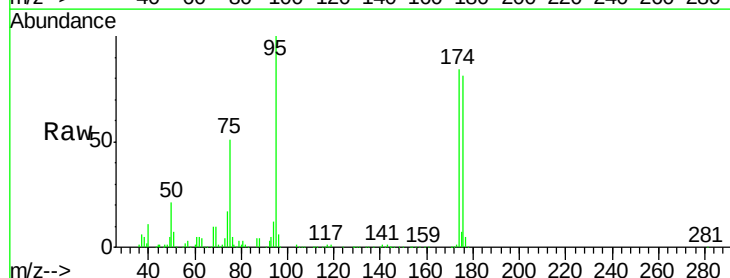
Tgt Ion: 95 Resp: 384190

Ion Ratio Lower Upper

95 100

174 83.9 0.0 191.0

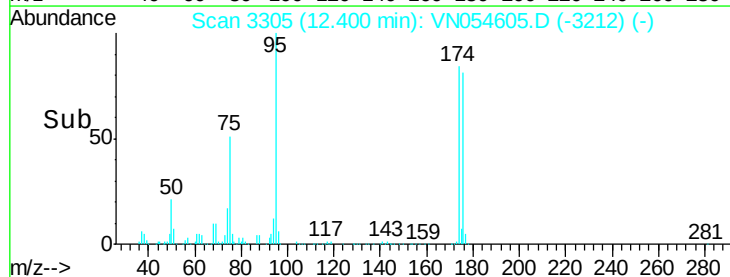
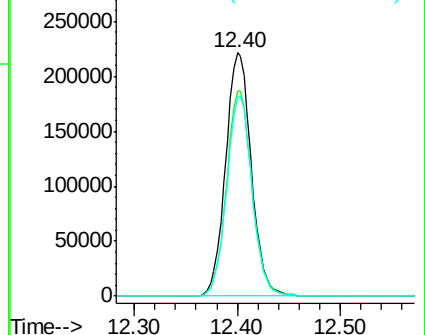
176 81.5 0.0 187.4

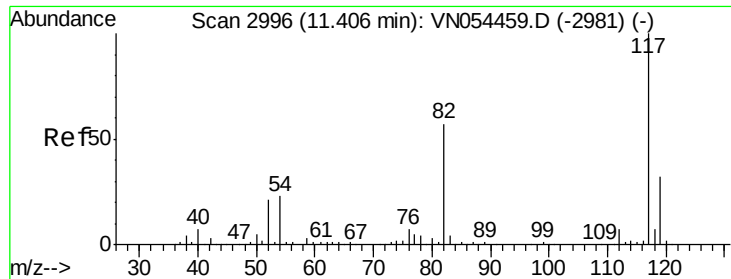


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

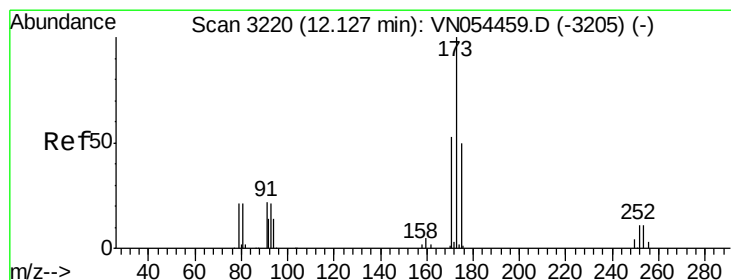
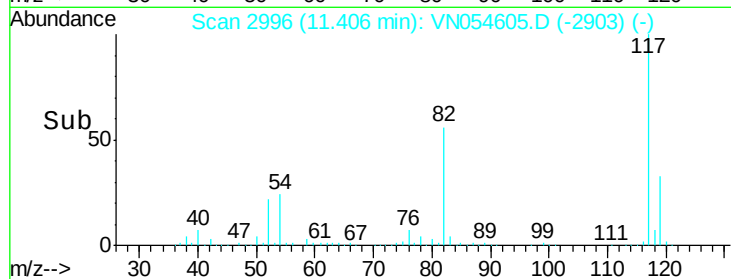
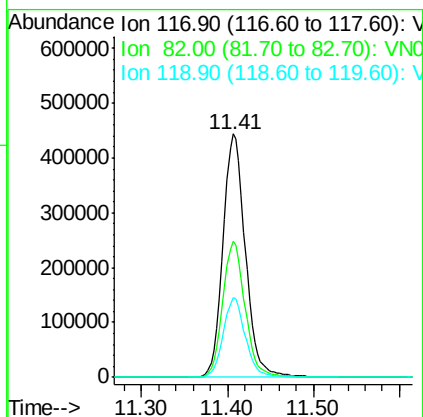
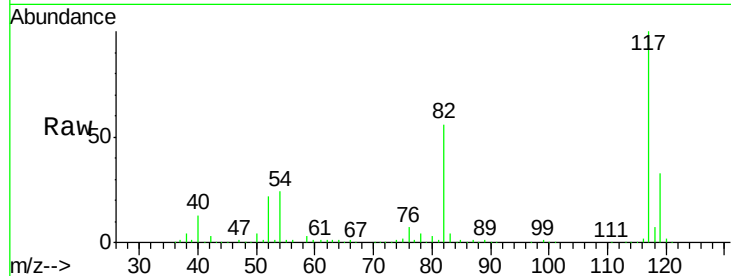




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054605.D
Acq: 23 Mar 2019 15:32

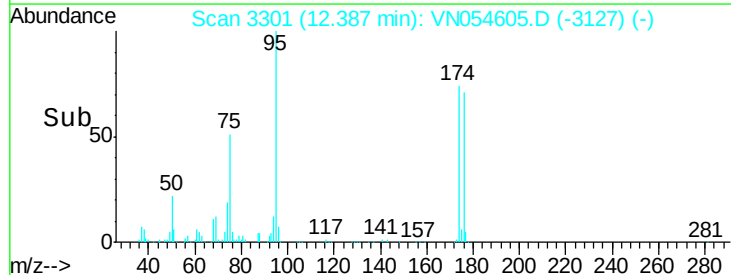
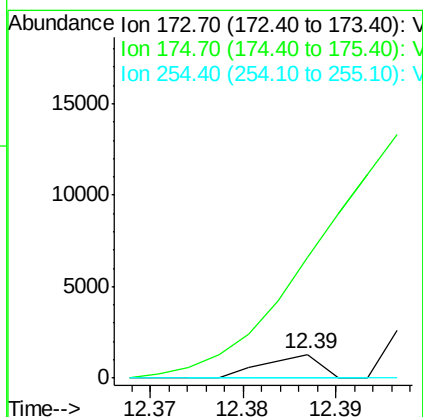
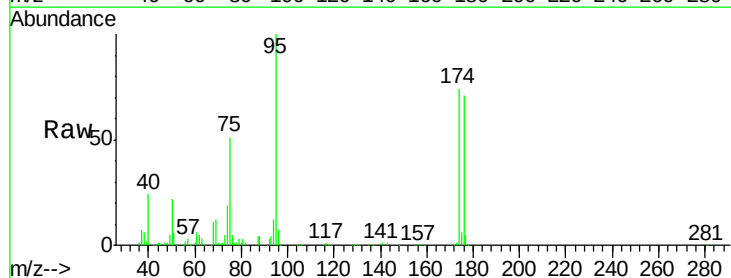
Instrument :
MSVOA_N
ClientSampleId :
M3-T2-OZ(PRE)

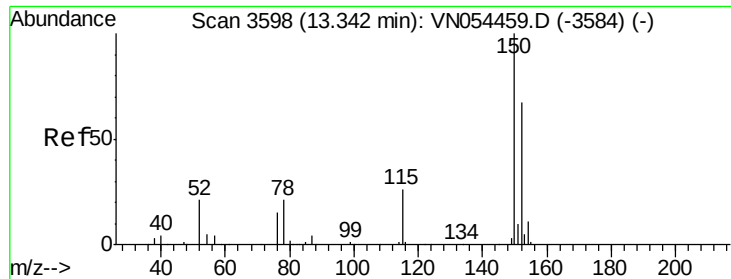
Tot Ion:117 Resp: 806444
Ion Ratio Lower Upper
117 100
82 55.8 40.0 60.0
119 32.6 25.8 38.6



#71
Bromoform
Concen: 2.346 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN054605.D
Acq: 23 Mar 2019 15:32

Tgt Ion:173 Resp: 534
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

M3-T2-OZ(PRE)

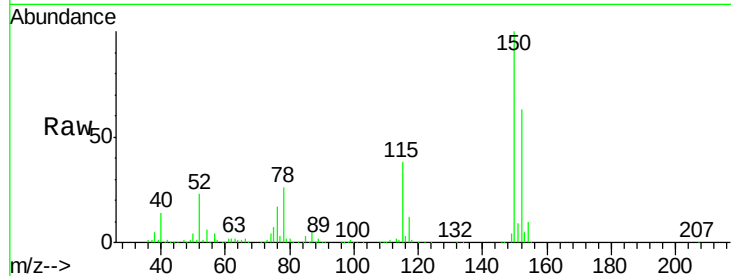
Tot Ion:152 Resp: 290609

Ion Ratio Lower Upper

152 100

115 58.2 27.2 81.6

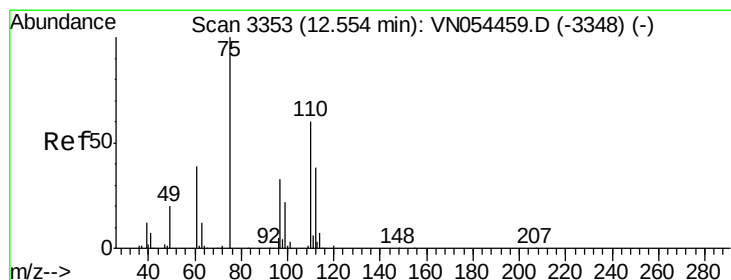
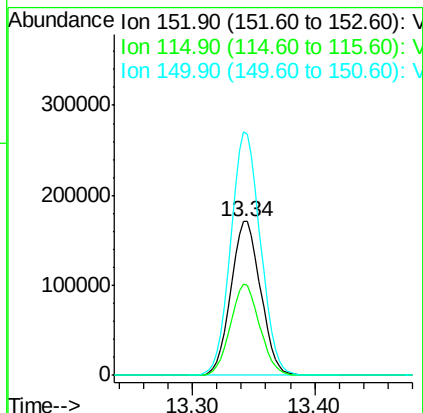
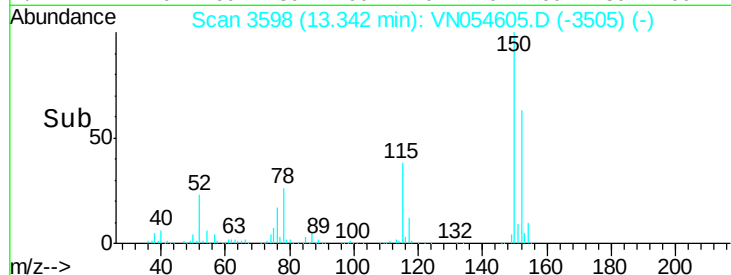
150 157.9 0.0 349.2



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: 42.754 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054605.D

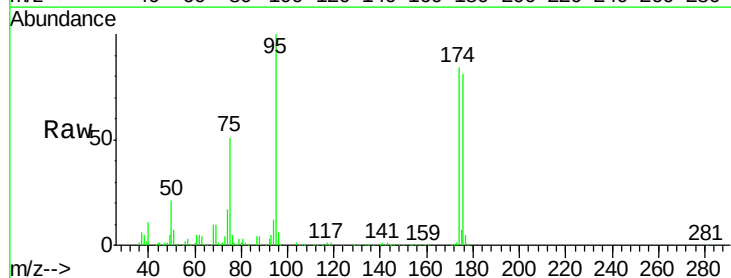
Acq: 23 Mar 2019 15:32

Tgt Ion: 75 Resp: 197160

Ion Ratio Lower Upper

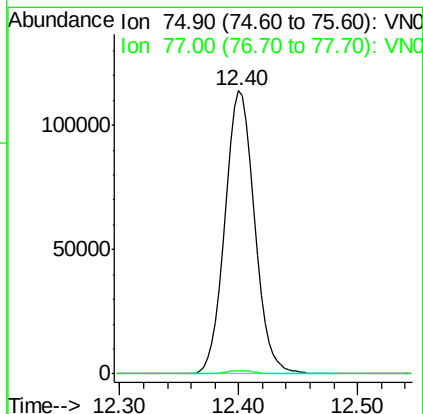
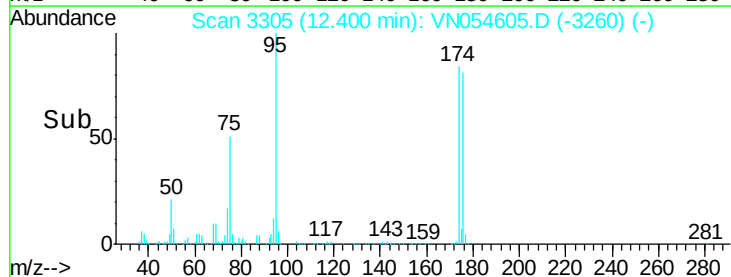
75 100

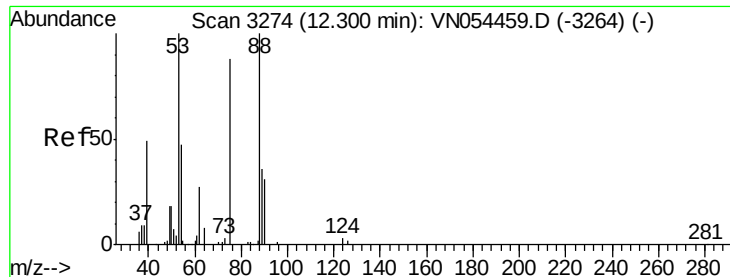
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 141.210 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054605.D

Acq: 23 Mar 2019 15:32

Instrument :

MSVOA_N

ClientSampleId :

M3-T2-OZ(PRE)

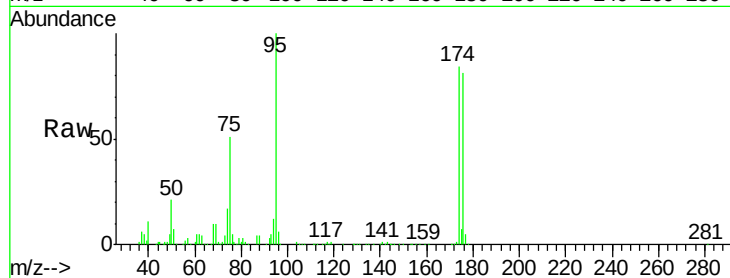
Tot Ion: 75 Resp: 197160

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

