

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022520\
 Data File : VN060239.D
 Acq On : 25 Feb 2020 17:06
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 25 22:21:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	226334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	358281	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	344714	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	178805	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	139662	50.71	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.57	113	110159	50.02	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	438394	50.55	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	176297	55.32	ug/l	0.00
Spiked Amount						

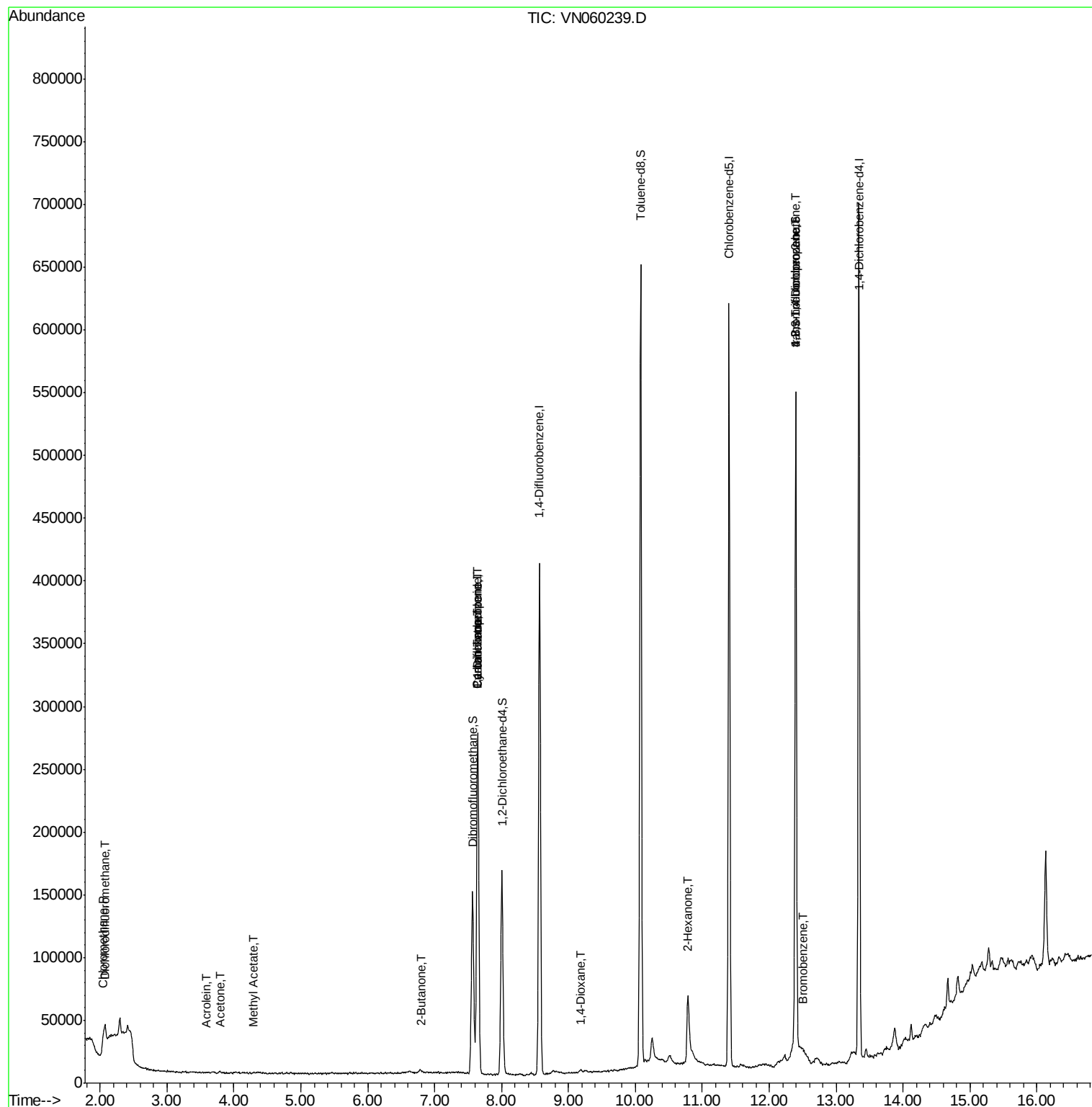
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.07	85	1089	0.481	ug/l #	43
3) Chloromethane	2.04	50	1108	0.412	ug/l	96
13) Acrolein	3.59	56	240	0.589	ug/l #	16
16) Acetone	3.79	43	1690	1.407	ug/l	92
18) Methyl Acetate	4.30	43	742	0.329	ug/l #	68
25) 2-Butanone	6.80	43	364	0.241	ug/l #	46
31) Cyclohexane	7.64	56	5354	1.374	ug/l #	25
36) 1,1-Dichloropropene	7.64	75	16768	5.053	ug/l #	49
38) Carbon Tetrachloride	7.64	117	21784	6.044	ug/l #	15
49) 1,4-Dioxane	9.18	88	1468	37.352	ug/l #	50
59) 2-Hexanone	10.79	43	20374	8.888	ug/l #	36
76) 1,2,3-Trichloropropane	12.40	75	89543	26.175	ug/l #	100
77) Bromobenzene	12.51	156	2050	0.619	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	89543	64.090	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.25	75	181	Below Cal	#	1

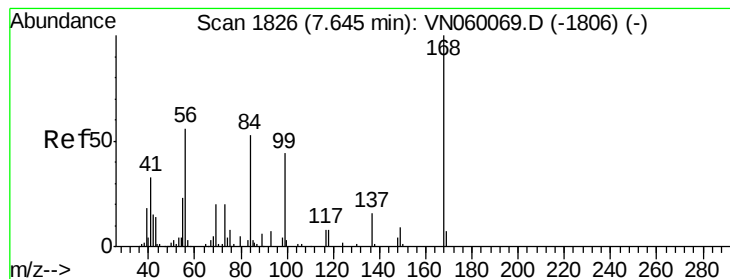
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

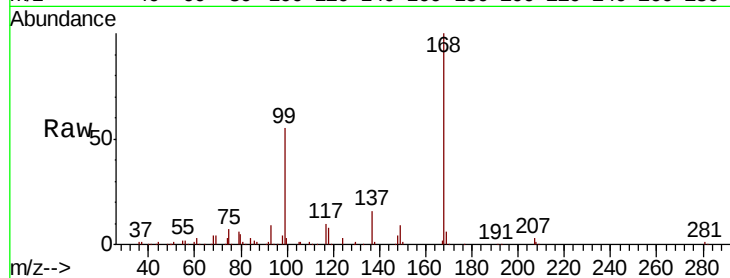
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 226334

Ion Ratio Lower Upper

168 100

99 55.4 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

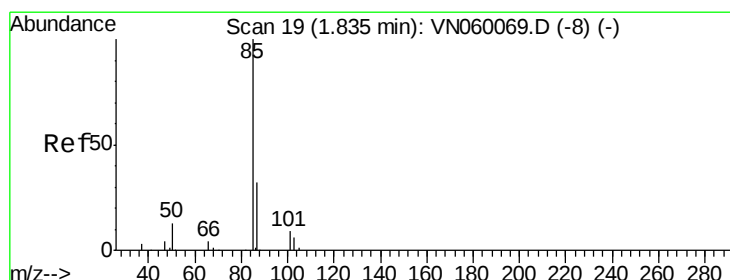
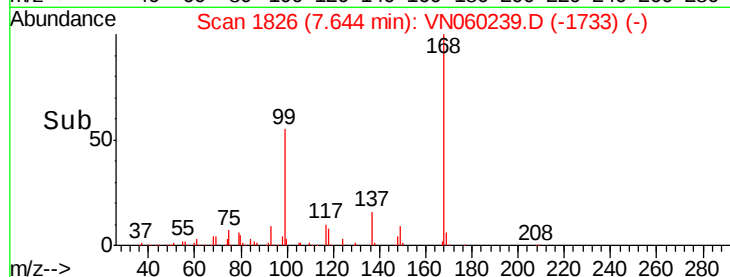
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.481 ug/l

RT: 2.07 min Scan# 91

Delta R.T. 0.23 min

Lab File: VN060239.D

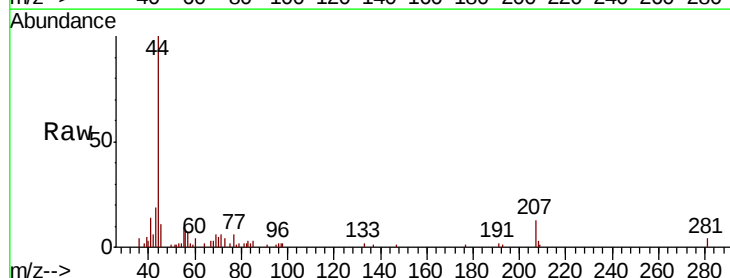
Acq: 25 Feb 2020 17:06

Tgt Ion: 85 Resp: 1089

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.2#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

2.07

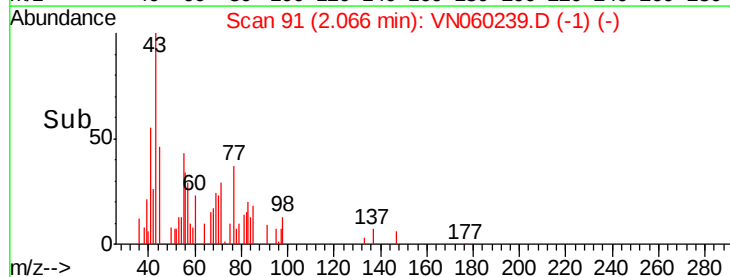
600

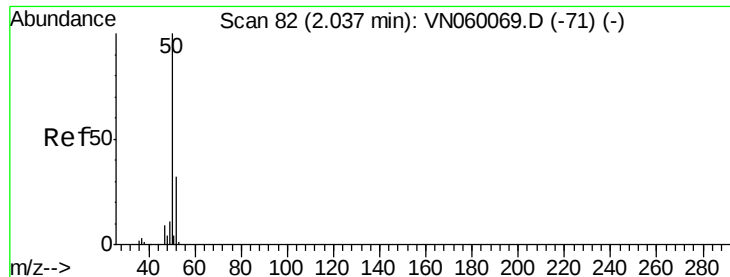
400

200

0

Time-->





#3

Chloromethane

Concen: 0.412 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

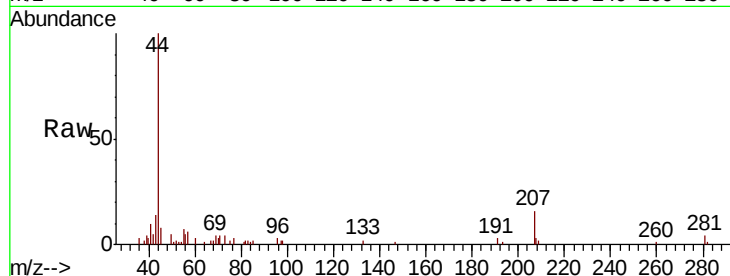
ClientSampled :

Tot Ion: 50 Resp: 1108

Ion Ratio Lower Upper

50 100

52 34.4 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

600

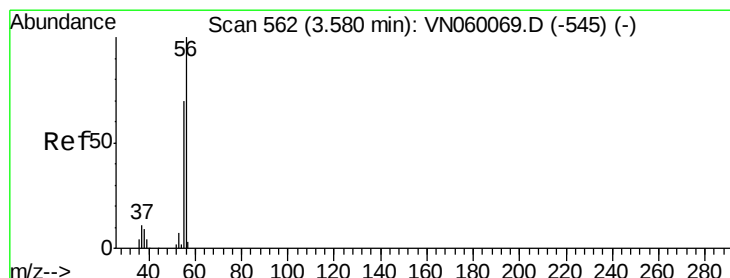
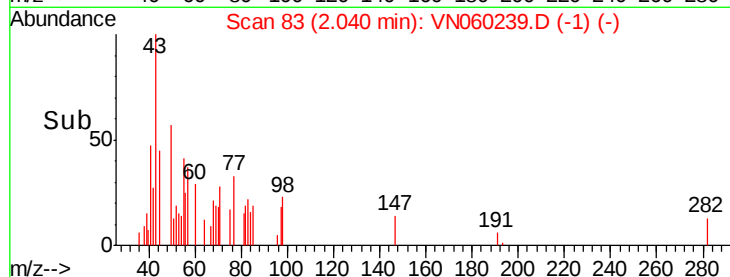
400

200

0

2.00 2.02 2.04 2.06 2.08

Time-->



#13

Acrolein

Concen: 0.589 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VN060239.D

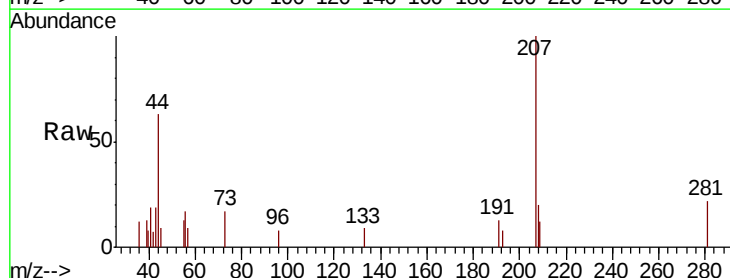
Acq: 25 Feb 2020 17:06

Tgt Ion: 56 Resp: 240

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.59

400

300

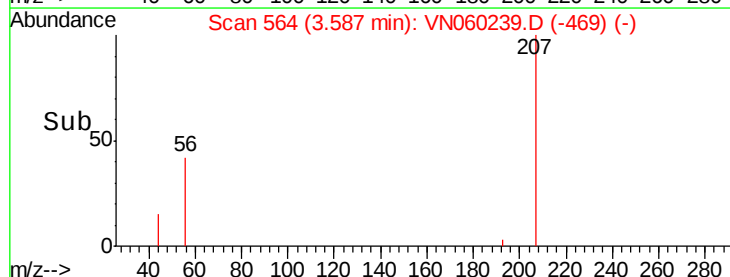
200

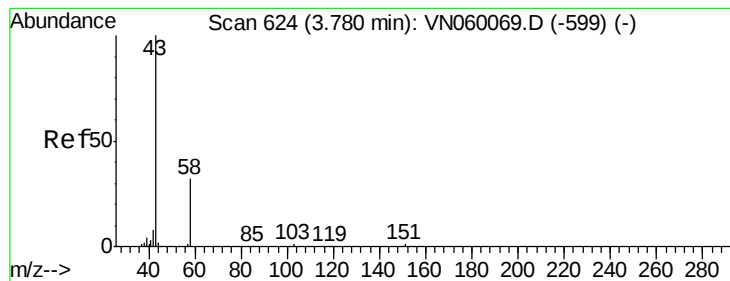
100

0

3.56 3.58 3.60 3.62 3.64

Time-->





#16

Acetone

Concen: 1.407 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

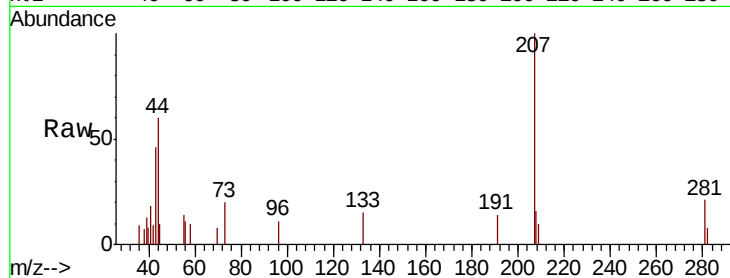
ClientSampled :

Tot Ion: 43 Resp: 1690

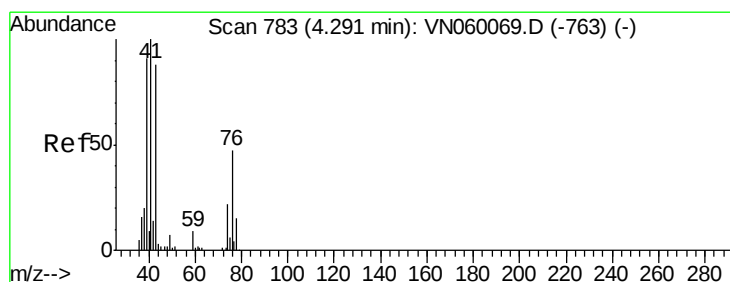
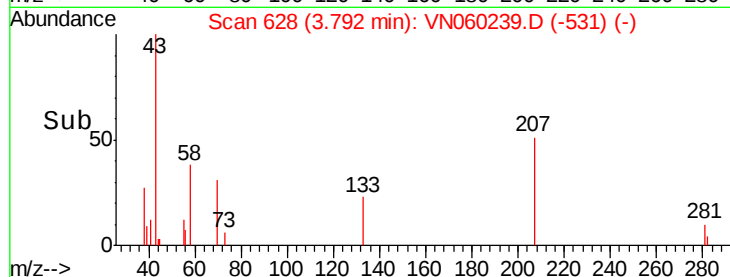
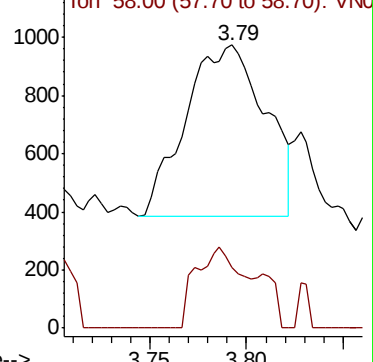
Ion Ratio Lower Upper

43 100

58 35.7 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-599) (-)



#18

Methyl Acetate

Concen: 0.329 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060239.D

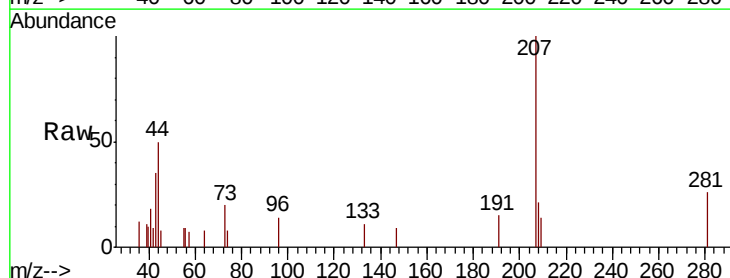
Acq: 25 Feb 2020 17:06

Tgt Ion: 43 Resp: 742

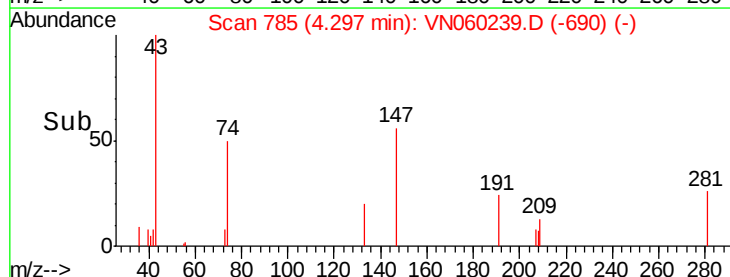
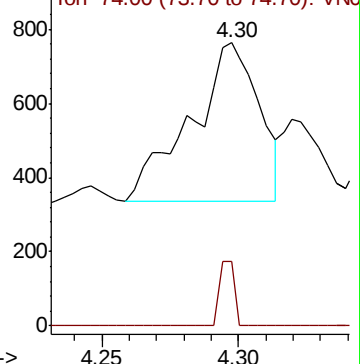
Ion Ratio Lower Upper

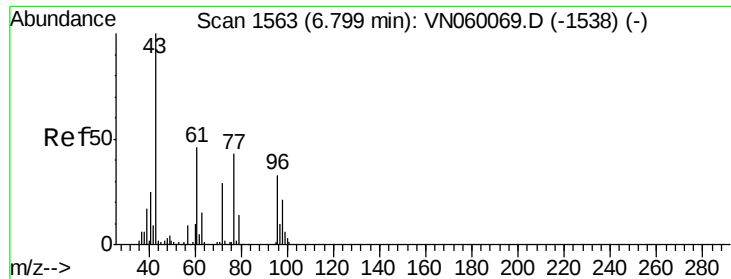
43 100

74 9.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-763) (-)

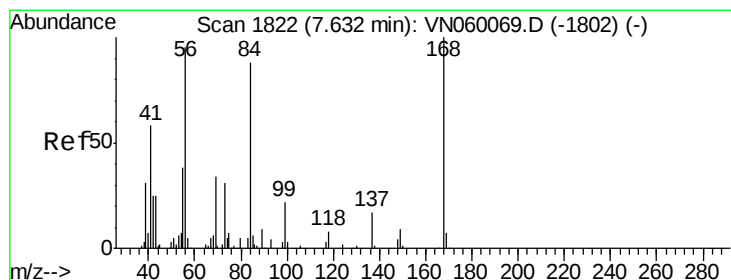
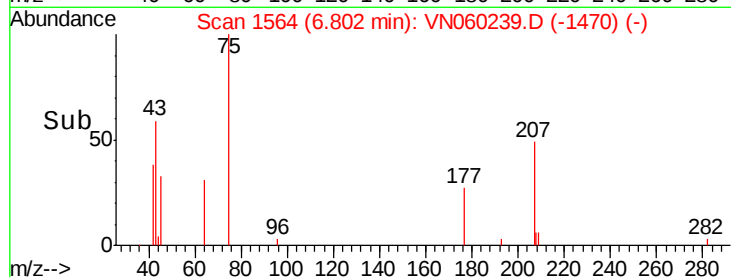
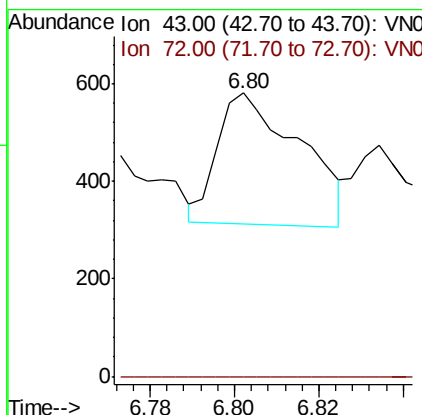
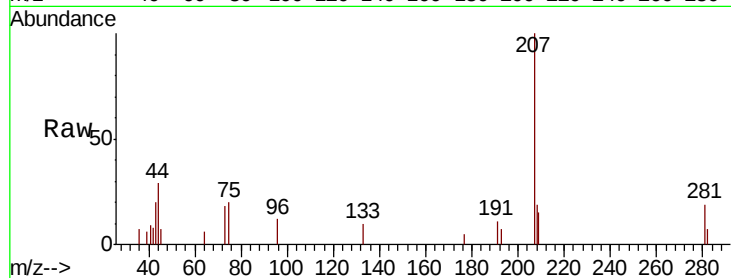




#25
2-Butanone
Concen: 0.241 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN060239.D
Acq: 25 Feb 2020 17:06

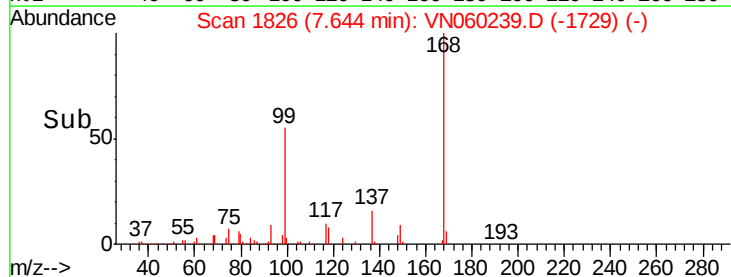
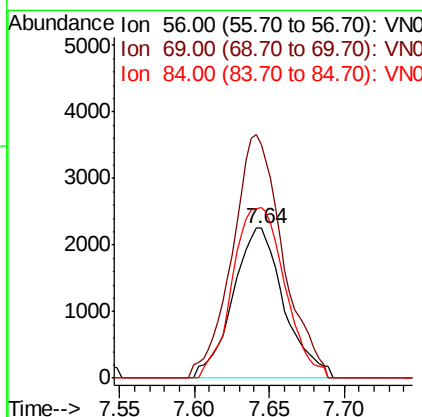
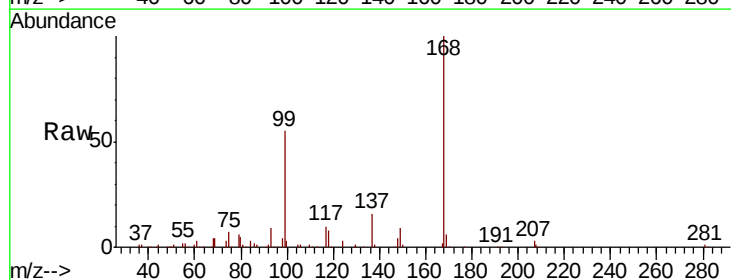
Instrument :
MSVOA_N
ClientSampleId :

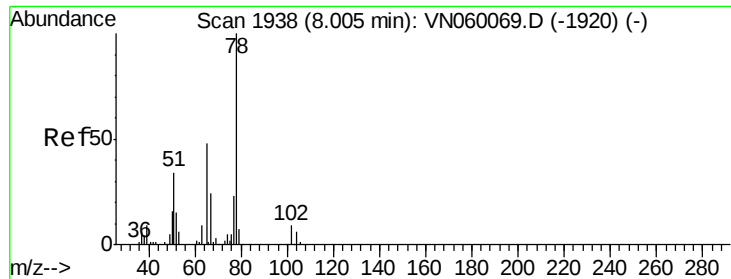
Tot Ion: 43 Resp: 364
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#



#31
Cyclohexane
Concen: 1.374 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060239.D
Acq: 25 Feb 2020 17:06

Tgt Ion: 56 Resp: 5354
Ion Ratio Lower Upper
56 100
69 155.4 28.3 42.5#
84 113.7 72.6 108.8#





#33

1,2-Dichloroethane-d4

Concen: 50.711 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

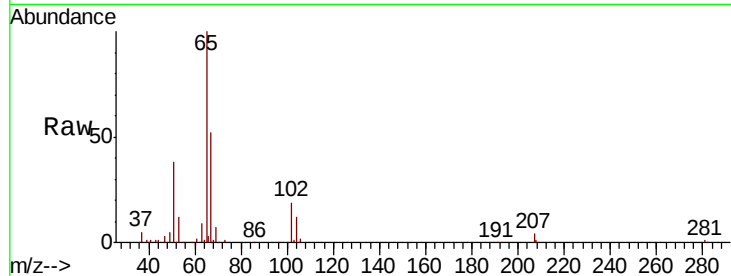
ClientSampleId :

Tot Ion: 65 Resp: 139662

Ion Ratio Lower Upper

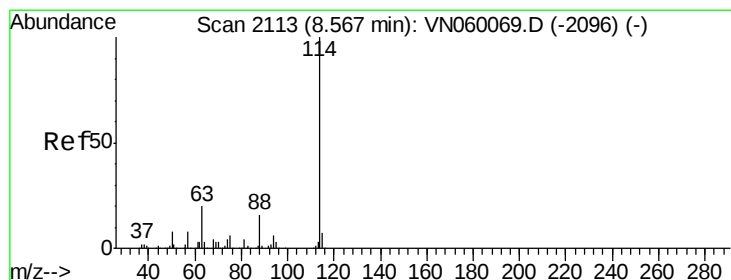
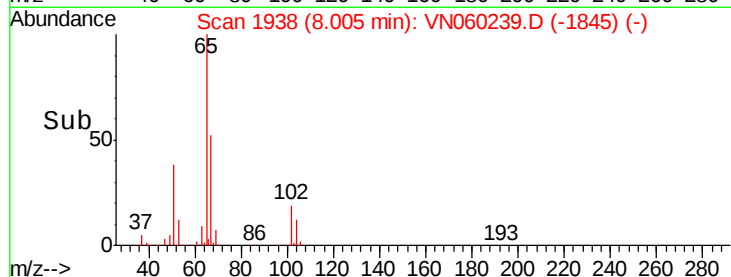
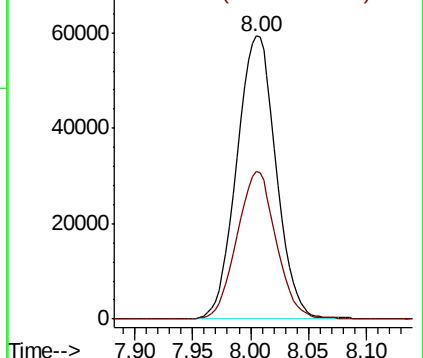
65 100

67 52.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060239.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060239.D (-1920) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

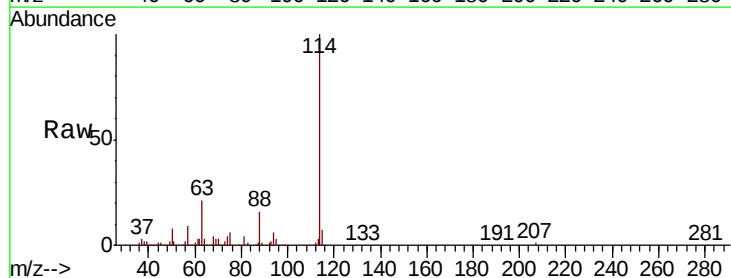
Tgt Ion:114 Resp: 358281

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.0

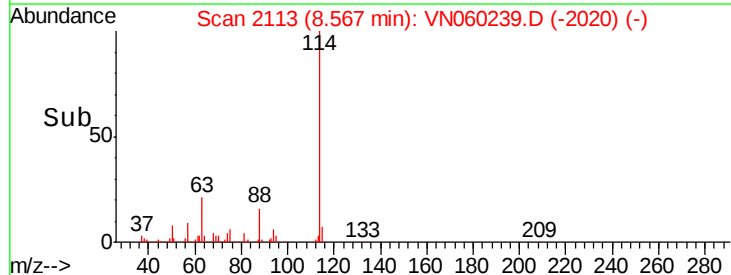
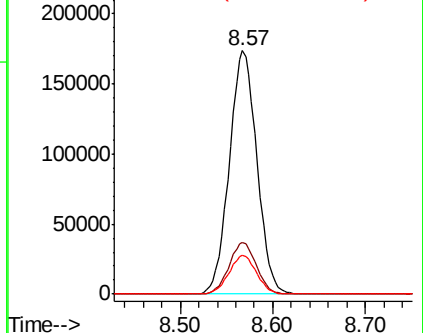
88 15.9 0.0 31.6

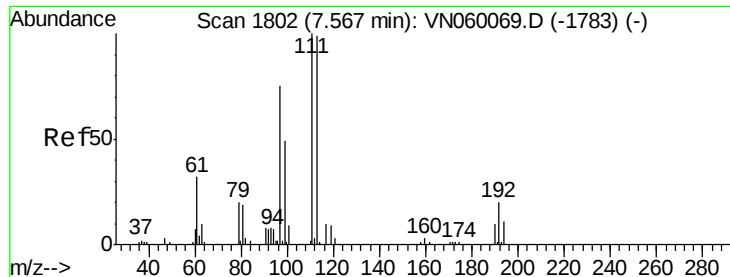


Abundance Ion 113.90 (113.60 to 114.60): VN060239.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN060239.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN060239.D (-2096) (-)

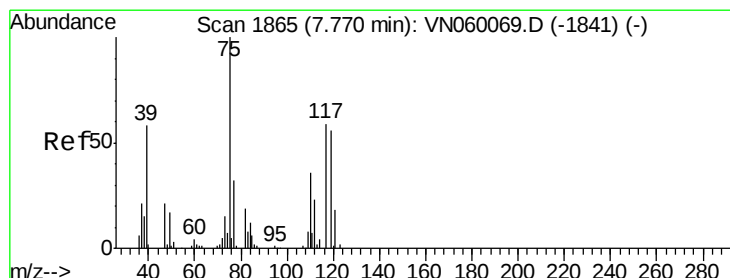
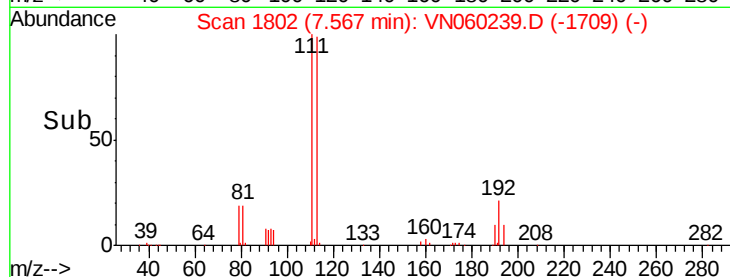
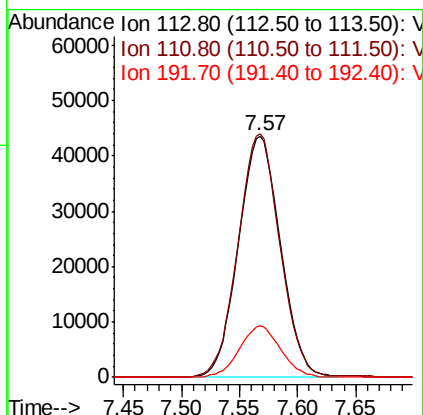
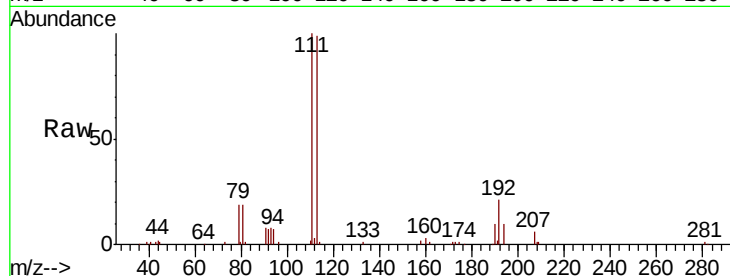




#35
Dibromofluoromethane
Concen: 50.019 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN060239.D
Acq: 25 Feb 2020 17:06

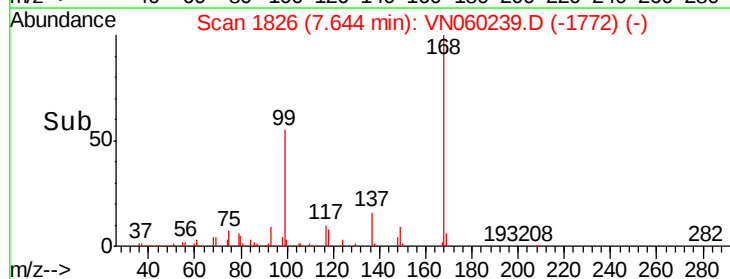
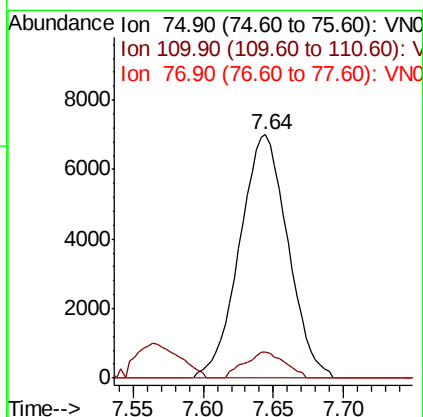
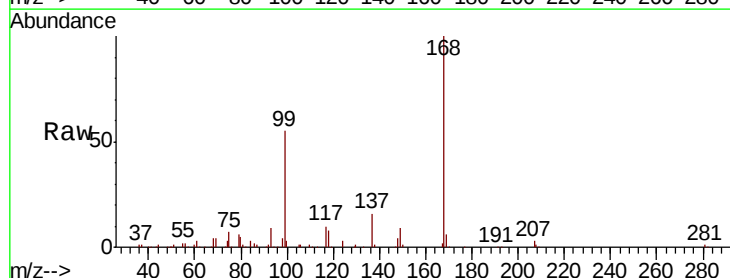
Instrument :
MSVOA_N
ClientSampleId :

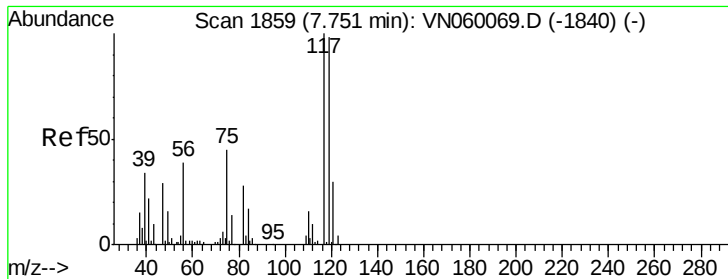
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	81.4	122.2
192	20.9	16.2	24.2



#36
1,1-Dichloropropene
Concen: 5.053 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN060239.D
Acq: 25 Feb 2020 17:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.3#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.044 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

ClientSampled :

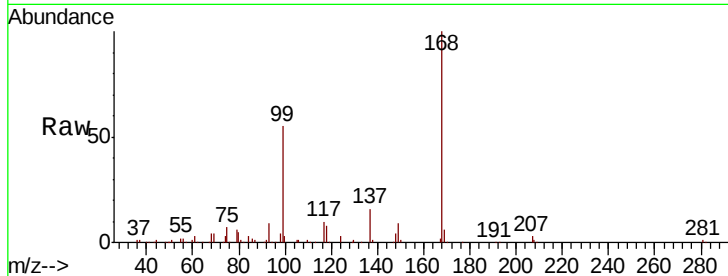
Tot Ion:117 Resp: 21784

Ion Ratio Lower Upper

117 100

119 4.4 78.2 117.4#

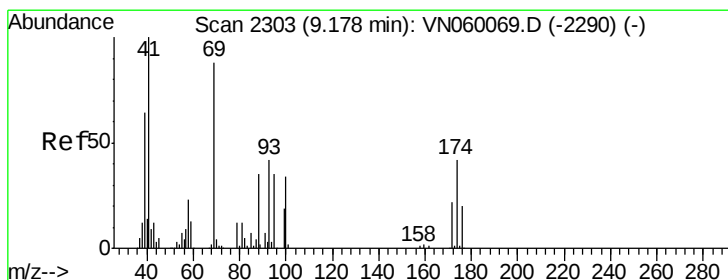
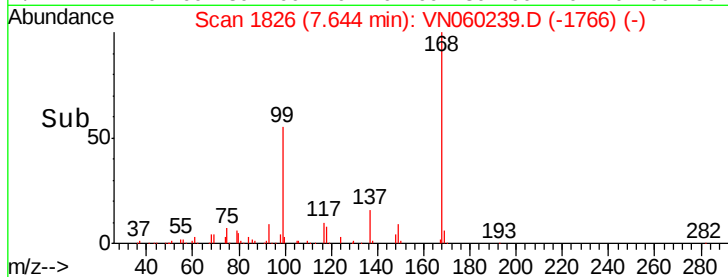
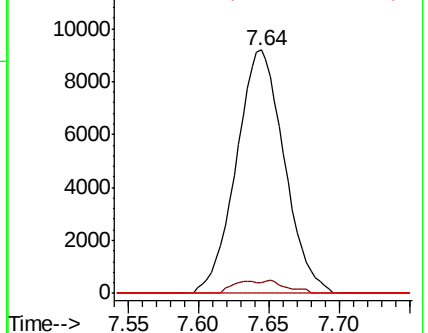
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 37.352 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

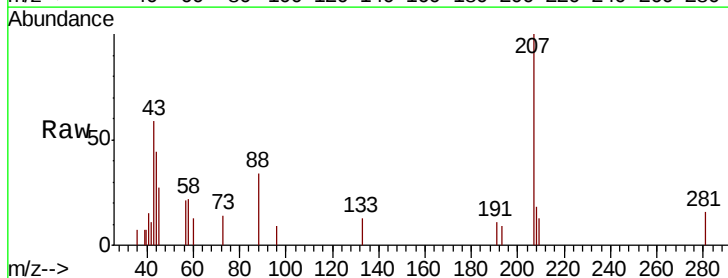
Tgt Ion: 88 Resp: 1468

Ion Ratio Lower Upper

88 100

43 112.1 26.2 39.2#

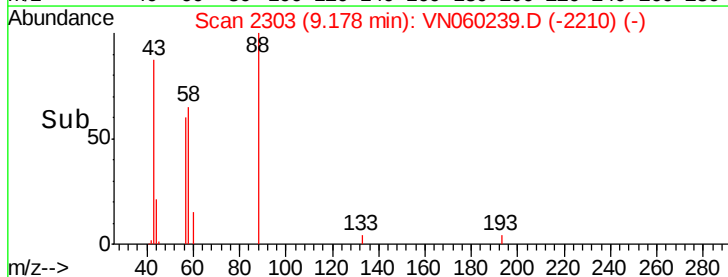
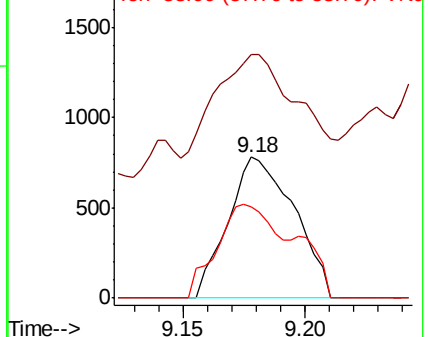
58 62.1 53.2 79.8

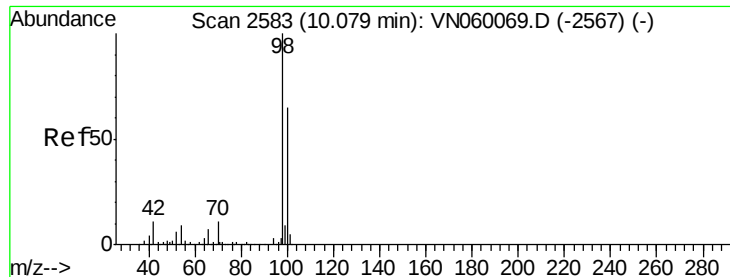


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 50.548 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

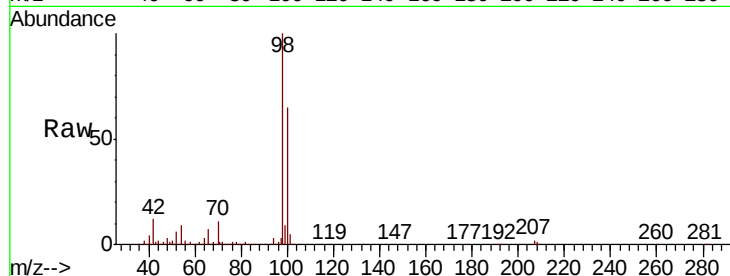
ClientSampled :

Tot Ion: 98 Resp: 438394

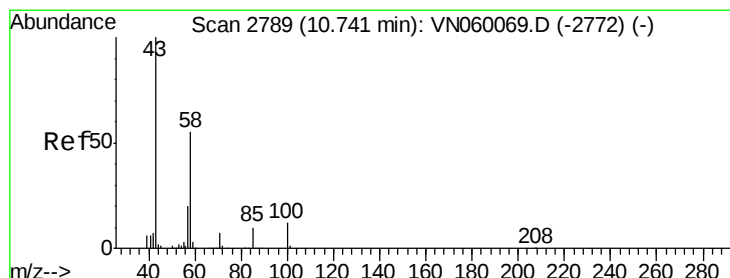
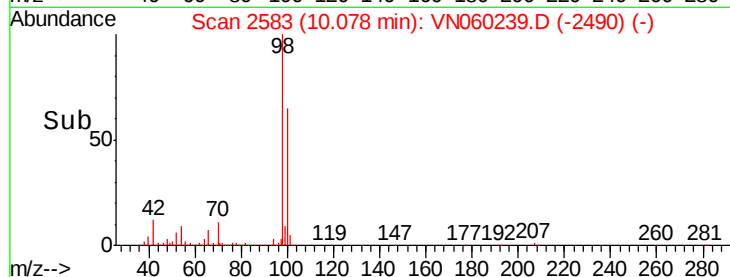
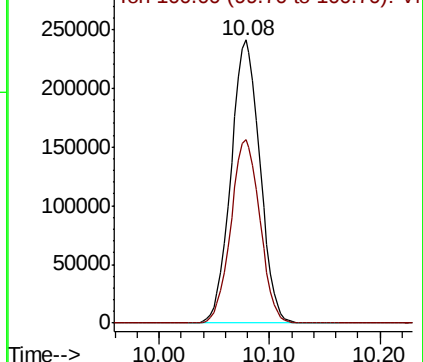
Ion Ratio Lower Upper

98 100

100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN060069.D (-2567) (-)



#59

2-Hexanone

Concen: 8.888 ug/l

RT: 10.79 min Scan# 2803

Delta R.T. 0.04 min

Lab File: VN060239.D

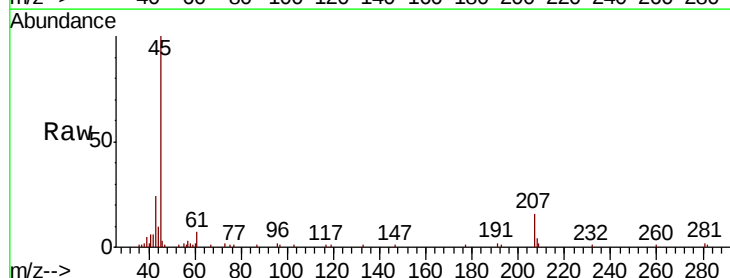
Acq: 25 Feb 2020 17:06

Tgt Ion: 43 Resp: 20374

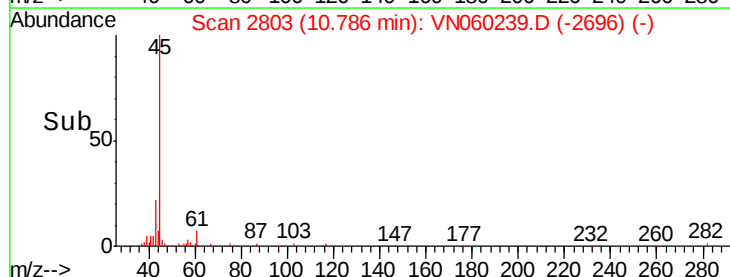
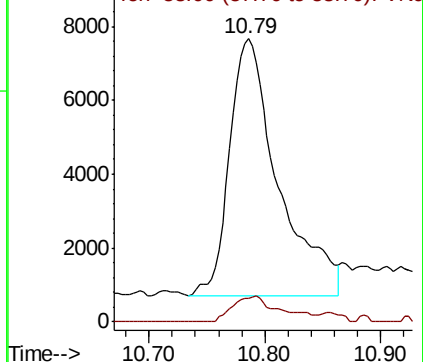
Ion Ratio Lower Upper

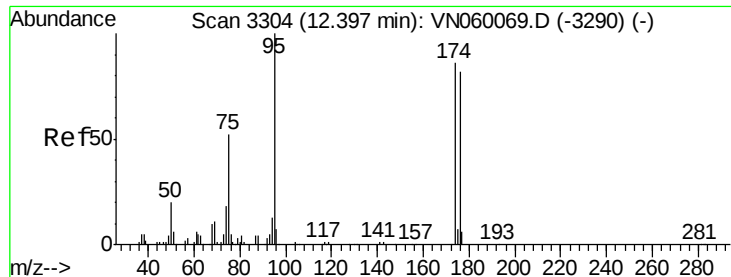
43 100

58 8.5 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2772) (-)





#62

4-Bromofluorobenzene

Concen: 55.320 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

ClientSampled :

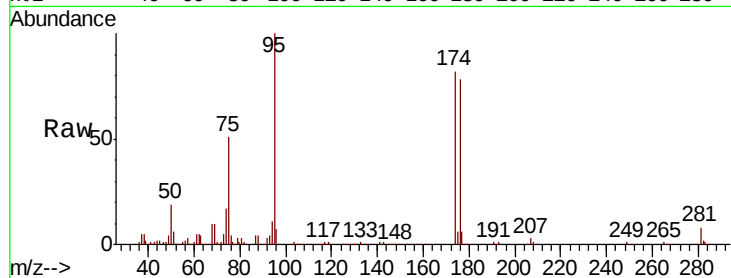
Tot Ion: 95 Resp: 176297

Ion Ratio Lower Upper

95 100

174 82.1 0.0 169.8

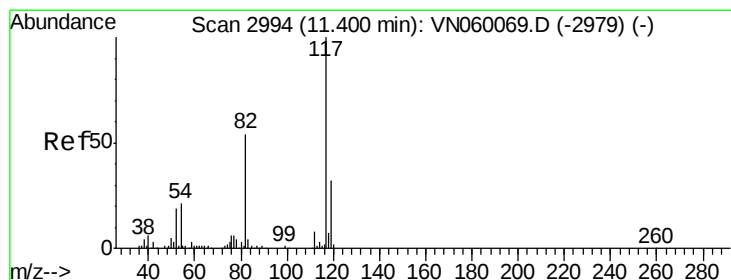
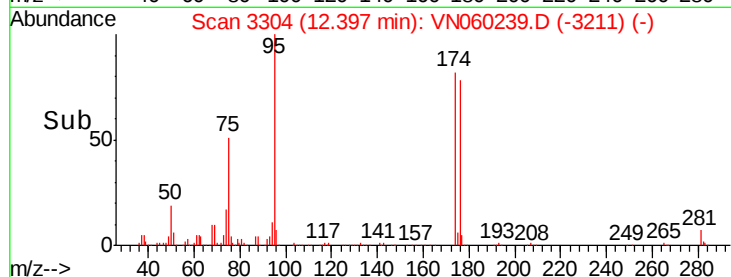
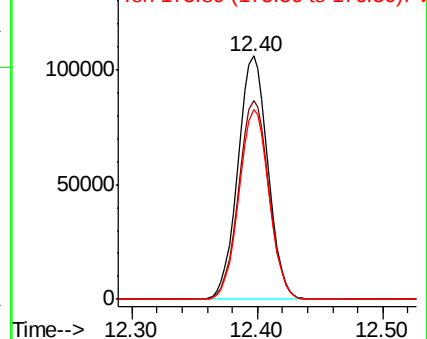
176 78.2 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060069.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060069.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060069.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

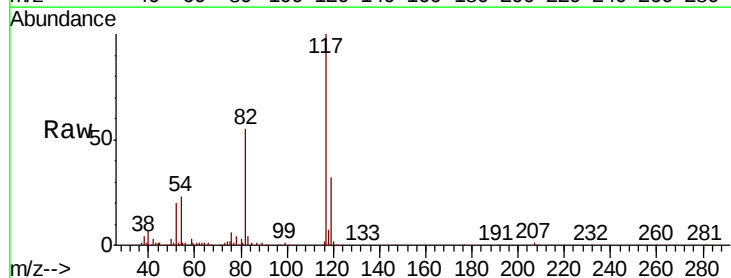
Tgt Ion: 117 Resp: 344714

Ion Ratio Lower Upper

117 100

82 55.5 43.4 65.0

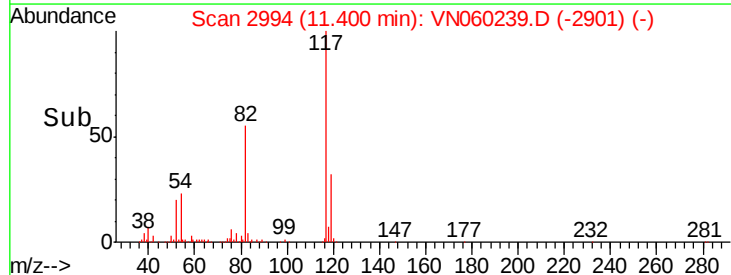
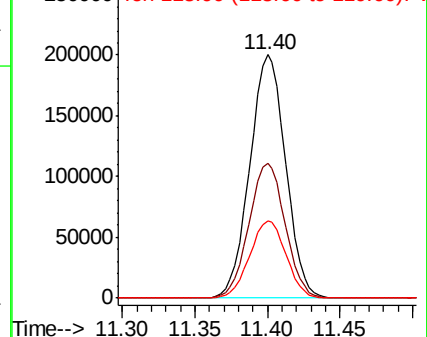
119 31.9 25.8 38.6

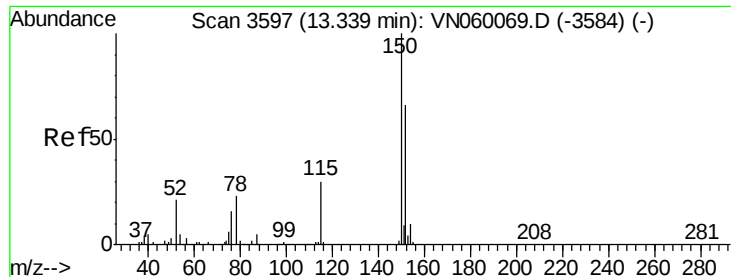


Abundance Ion 116.90 (116.60 to 117.60): VN060069.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060069.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060069.D (-2979) (-)



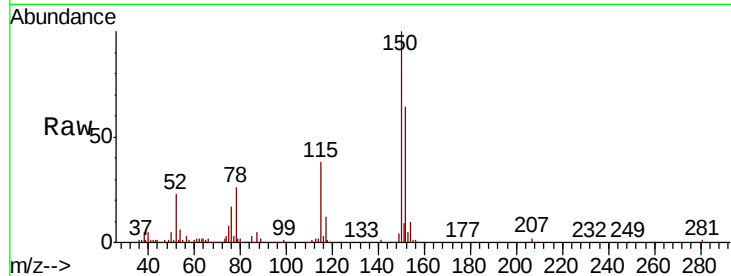


#72

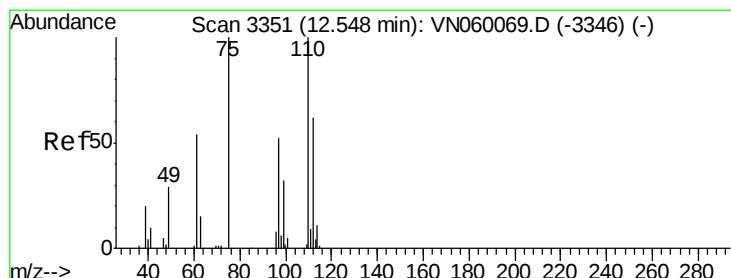
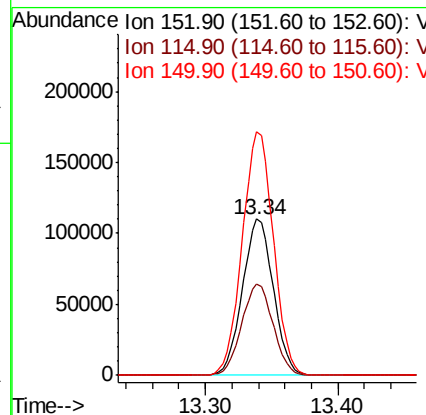
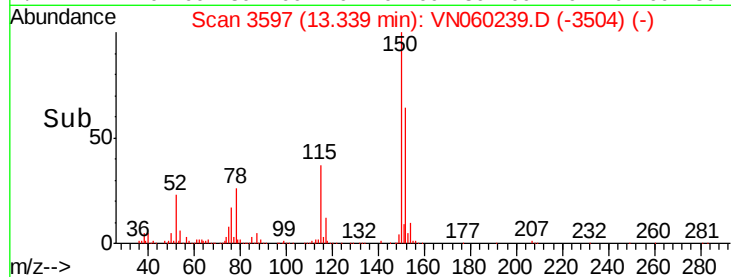
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060239.D
Acq: 25 Feb 2020 17:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.7	28.9	86.8
150	156.3	0.0	342.4



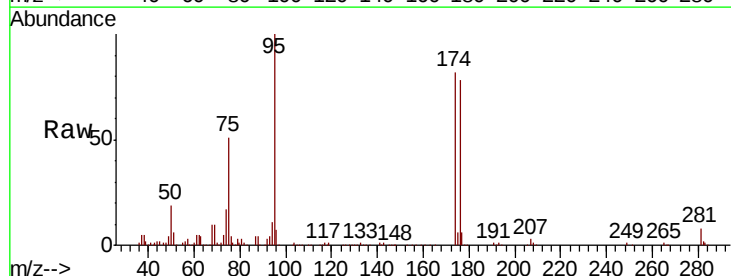
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



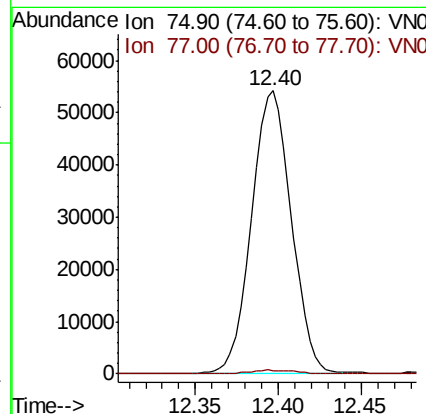
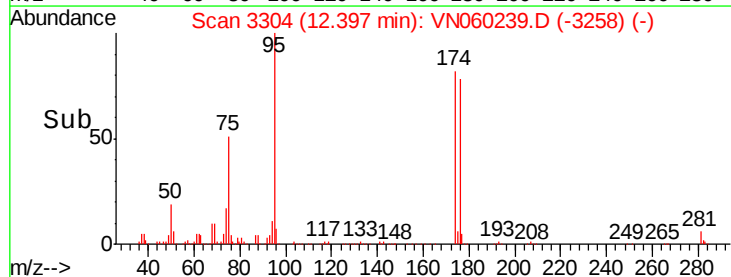
#76

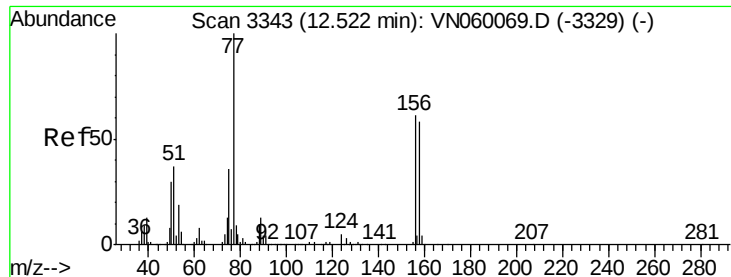
1,2,3-Trichloropropane
Concen: 26.175 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060239.D
Acq: 25 Feb 2020 17:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 0.619 ug/l

RT: 12.51 min Scan# 3340

Delta R.T. -0.01 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

ClientSampled :

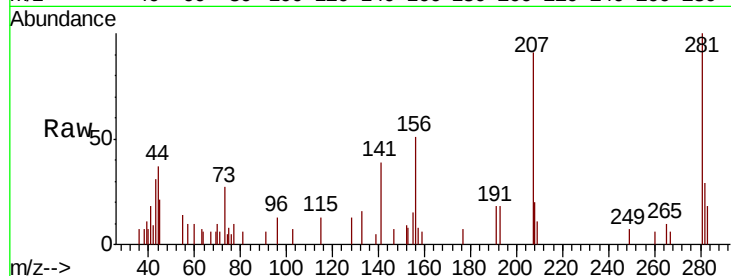
Tot Ion:156 Resp: 2050

Ion Ratio Lower Upper

156 100

77 8.3 98.7 296.1#

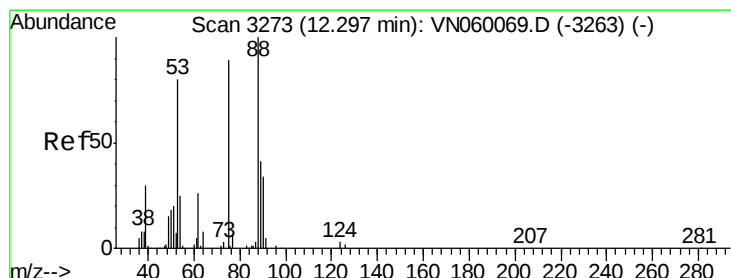
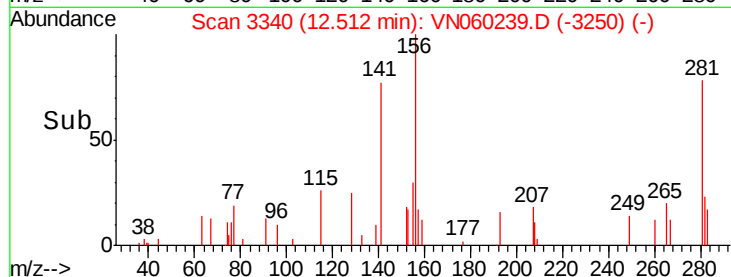
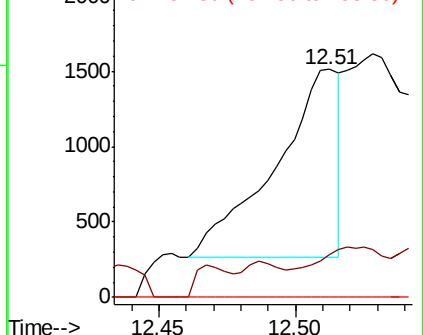
158 0.0 48.1 144.4#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 64.090 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

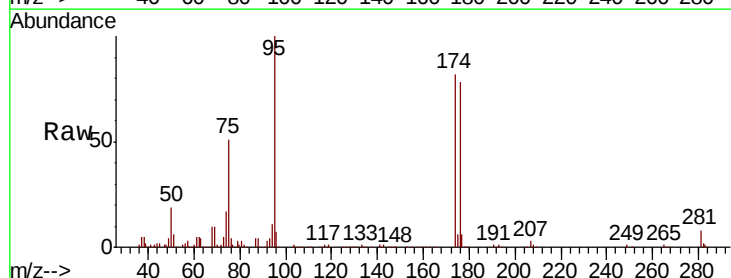
Tgt Ion: 75 Resp: 89543

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

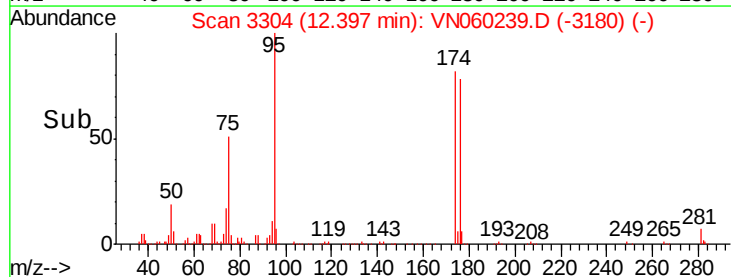
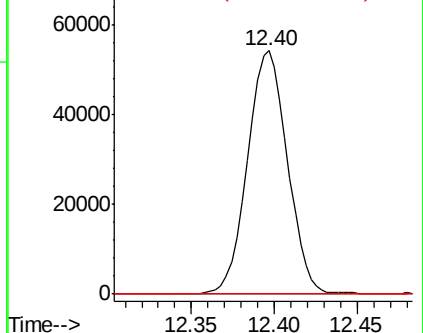
89 0.3 37.0 55.4#

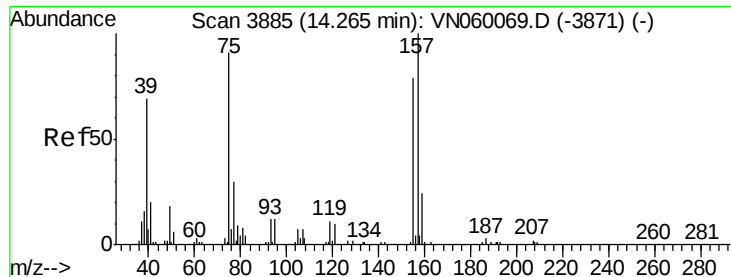


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.25 min Scan# 3881

Delta R.T. -0.01 min

Lab File: VN060239.D

Acq: 25 Feb 2020 17:06

Instrument :

MSVOA_N

ClientSampleId :

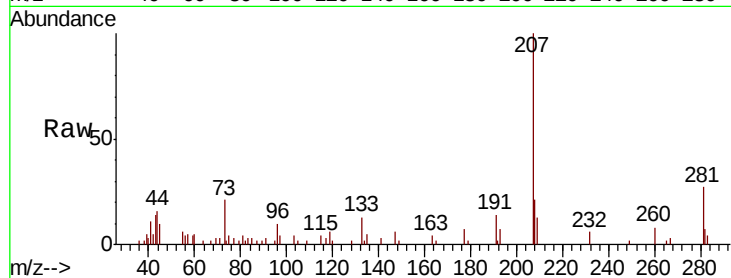
Tot Ion: 75 Resp: 181

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

