

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032419\
 Data File : VN054639.D
 Acq On : 24 Mar 2019 11:09
 Operator : JC/SP
 Sample : VN0324MBL01
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 06:09:26 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	7.66	168	620422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	947851	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	792527	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	287229	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	390853	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	7.59	113	299083	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
50) Toluene-d8	10.09	98	1135782	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.40	95	352725	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	

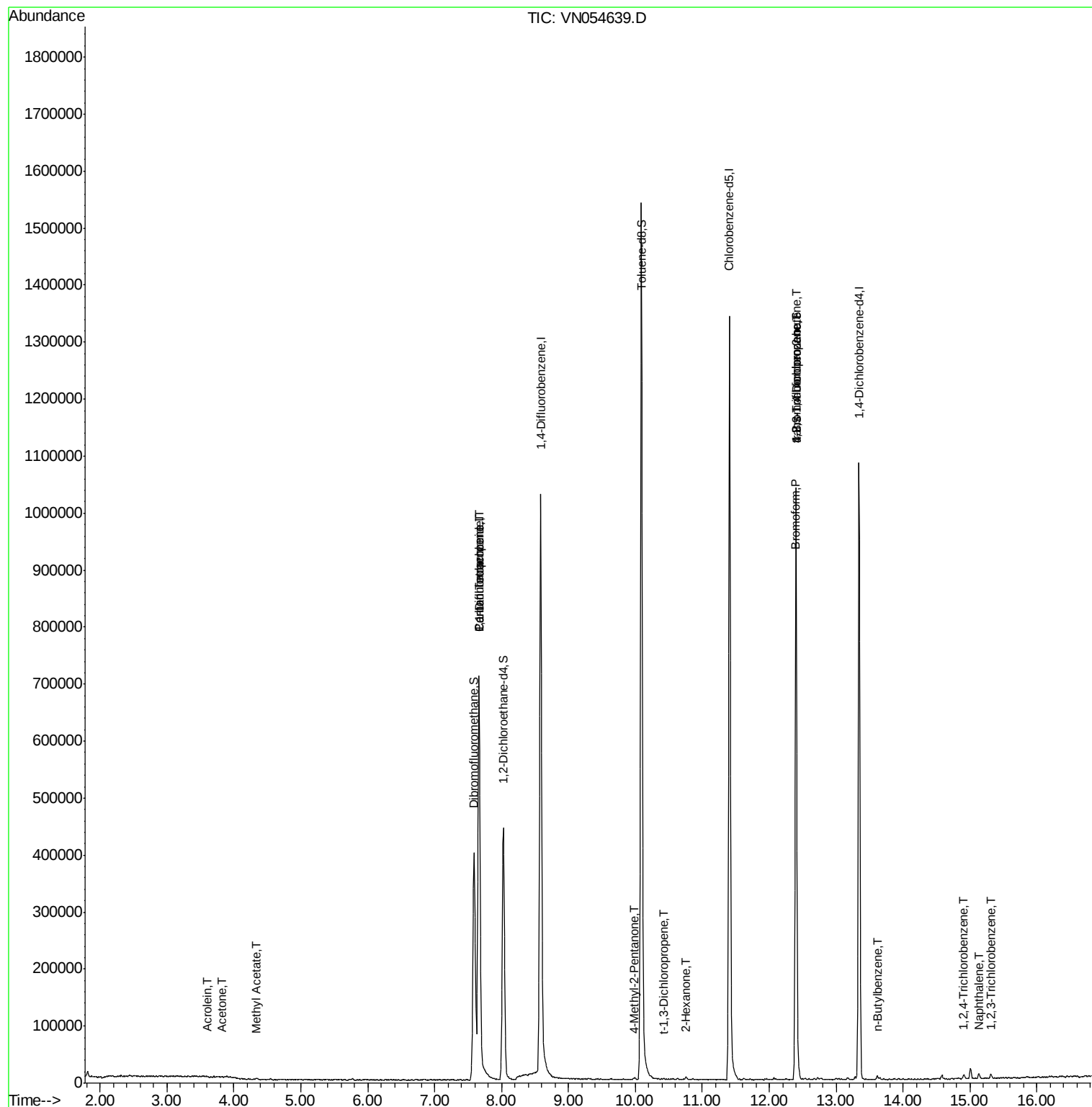
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	453	0.703	ug/l	93
16) Acetone	3.82	43	953	0.411	ug/l #	38
18) Methyl Acetate	4.34	43	2901	0.561	ug/l #	64
31) Cyclohexane	7.66	56	12579	Below Cal	#	3
36) 1,1-Dichloropropene	7.67	75	44827	5.058	ug/l #	48
38) Carbon Tetrachloride	7.66	117	57738	6.704	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	2019	0.342	ug/l	93
53) t-1,3-Dichloropropene	10.41	75	123	2.245	ug/l	96
59) 2-Hexanone	10.75	43	3009	0.781	ug/l	99
71) Bromoform	12.38	173	200	2.268	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	185183	40.629	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185183	134.350	ug/l #	11
89) n-Butylbenzene	13.61	91	3945	0.274	ug/l	89
93) 1,2,4-Trichlorobenzene	14.90	180	2657	0.578	ug/l	84
94) Hexachlorobutadiene	15.01	225	3452	Below Cal		98
95) Naphthalene	15.13	128	7628	0.745	ug/l	95
96) 1,2,3-Trichlorobenzene	15.31	180	3080	0.674	ug/l	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

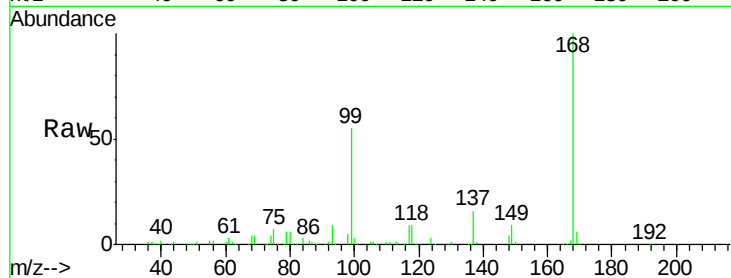
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 620422

Ion Ratio Lower Upper

168 100

99 54.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

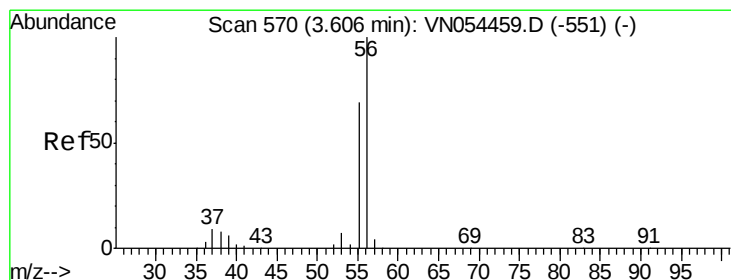
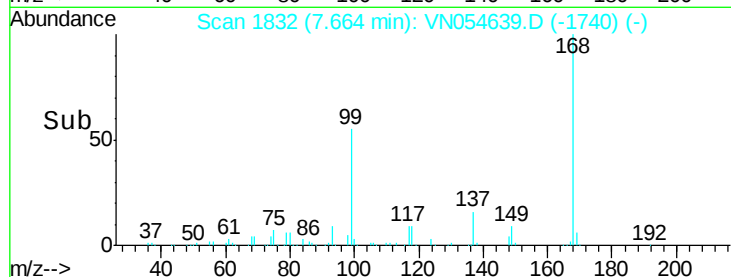
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.703 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054639.D

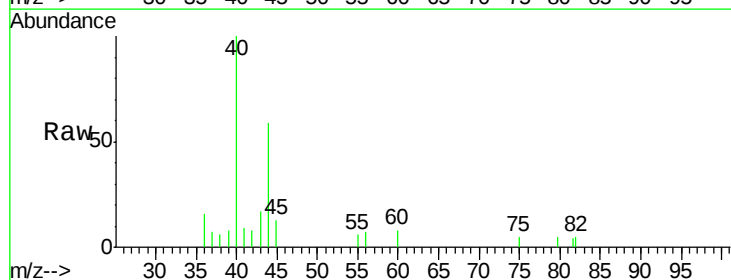
Acq: 24 Mar 2019 11:09

Tgt Ion: 56 Resp: 453

Ion Ratio Lower Upper

56 100

55 65.1 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

300

250

200

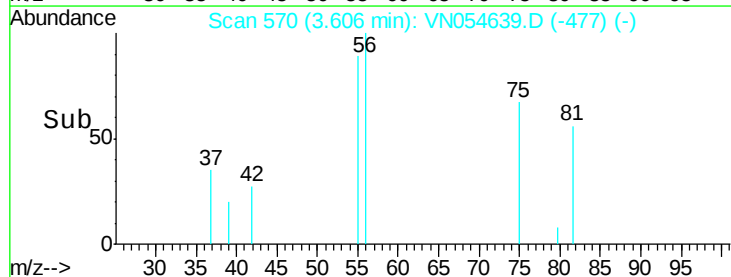
150

100

50

0

Time-->





#16

Acetone

Concen: 0.411 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :

MSVOA_N

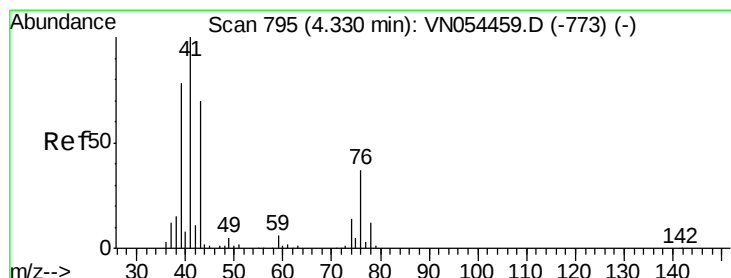
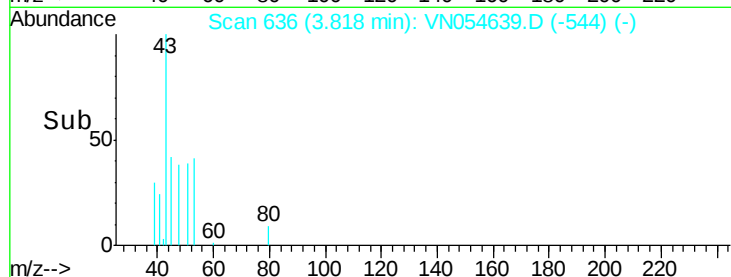
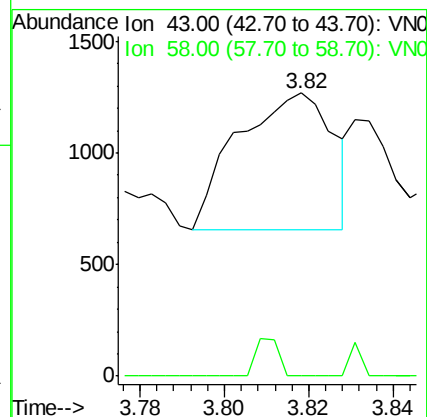
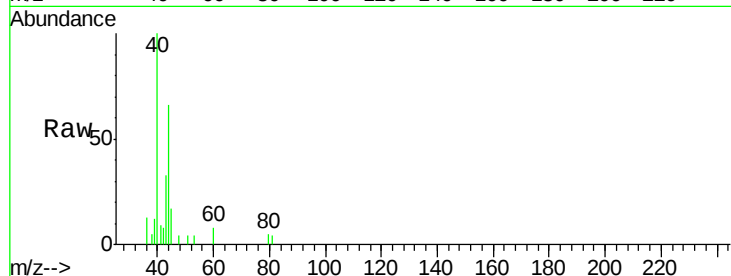
ClientSampled :

Tot Ion: 43 Resp: 953

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#



#18

Methyl Acetate

Concen: 0.561 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN054639.D

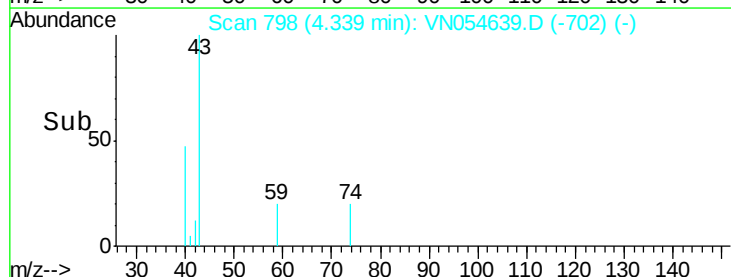
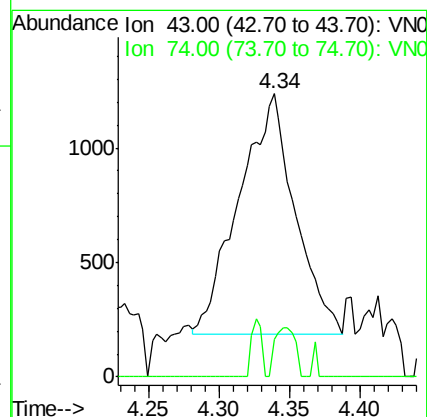
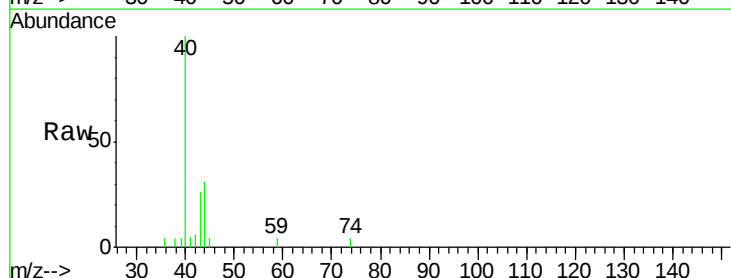
Acq: 24 Mar 2019 11:09

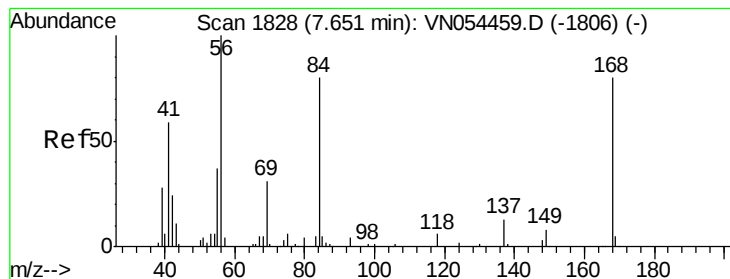
Tgt Ion: 43 Resp: 2901

Ion Ratio Lower Upper

43 100

74 7.5 20.8 31.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :
MSVOA_N
ClientSampled :

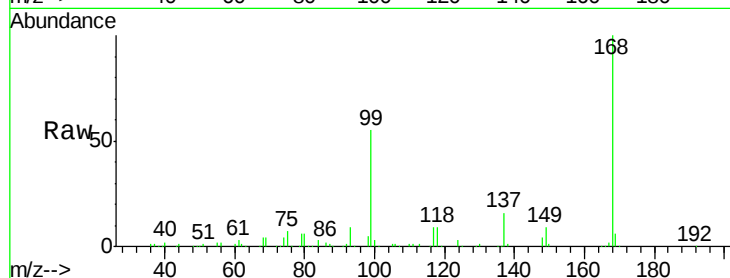
Tot Ion: 56 Resp: 12579

Ion Ratio Lower Upper

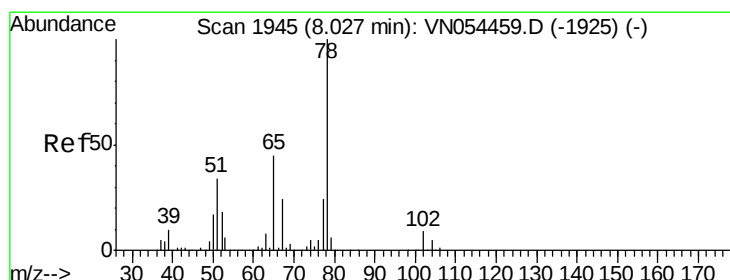
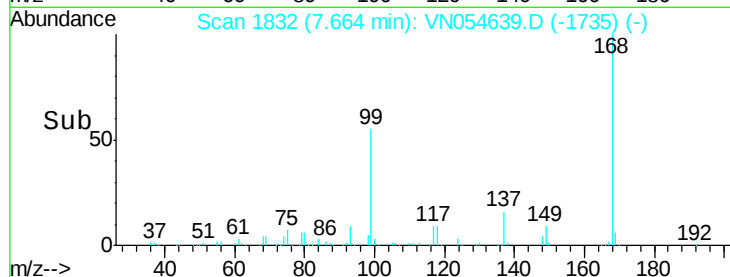
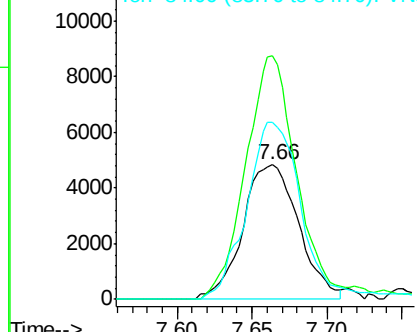
56 100

69 180.7 27.8 41.6#

84 131.0 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.648 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054639.D

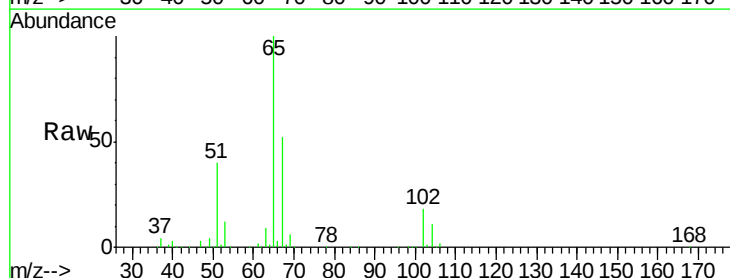
Acq: 24 Mar 2019 11:09

Tgt Ion: 65 Resp: 390853

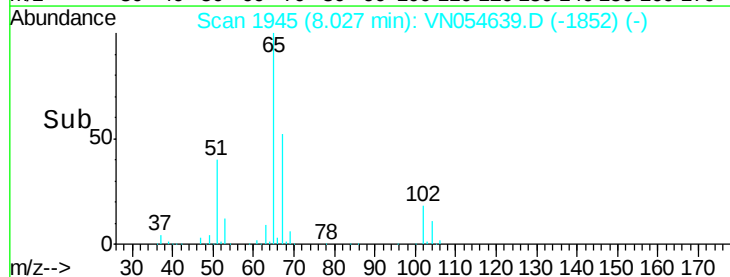
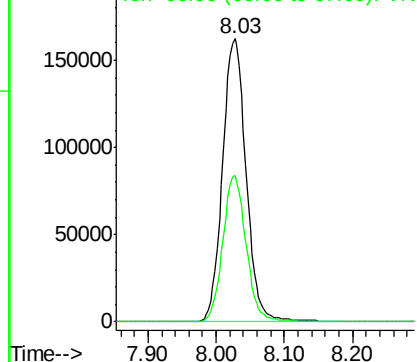
Ion Ratio Lower Upper

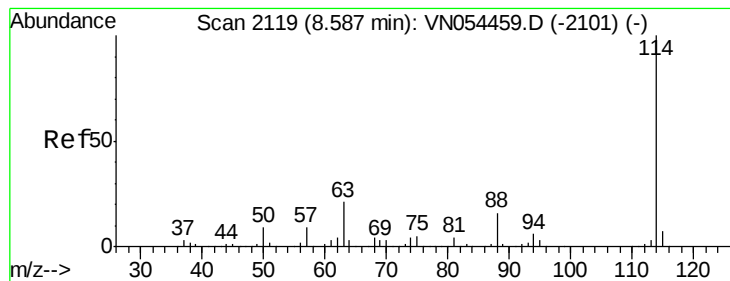
65 100

67 50.8 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :
MSVOA_N
ClientSampled :

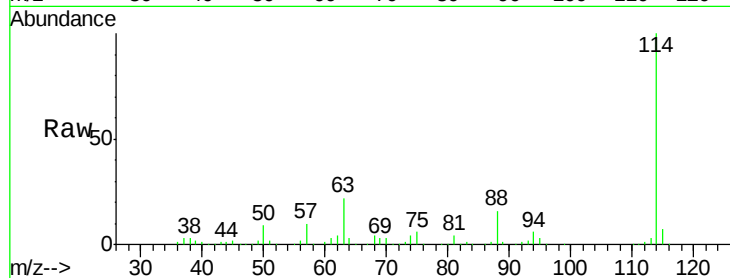
Tot Ion:114 Resp: 947851

Ion Ratio Lower Upper

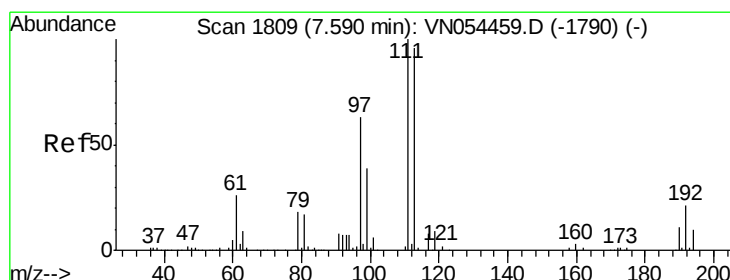
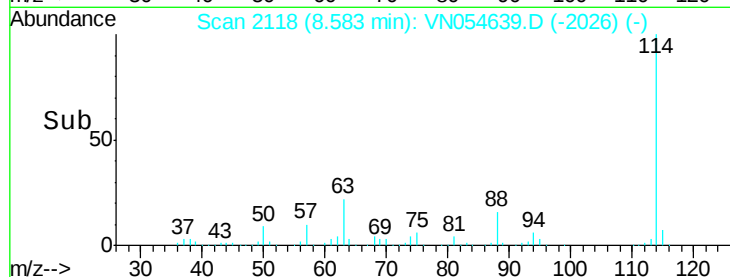
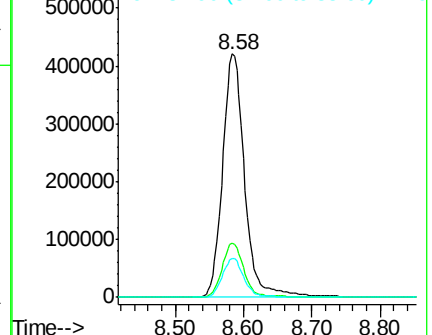
114 100

63 22.5 0.0 35.2

88 16.0 0.0 30.2



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



#35

Dibromofluoromethane

Concen: 48.978 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

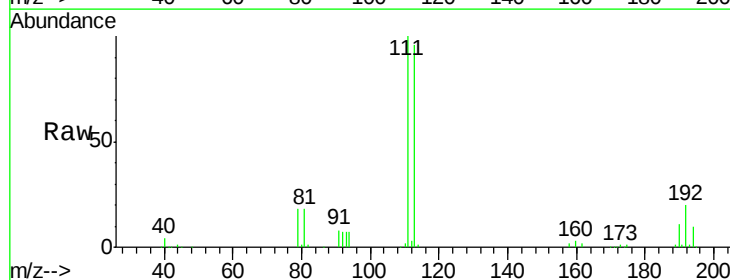
Tgt Ion:113 Resp: 299083

Ion Ratio Lower Upper

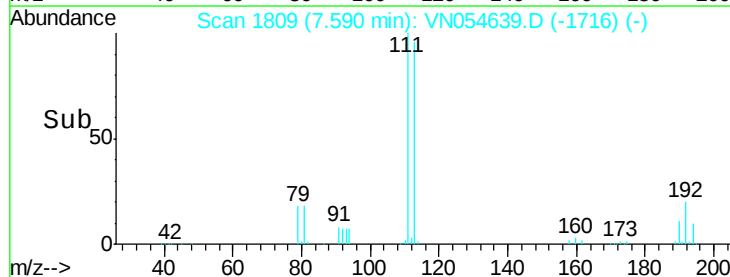
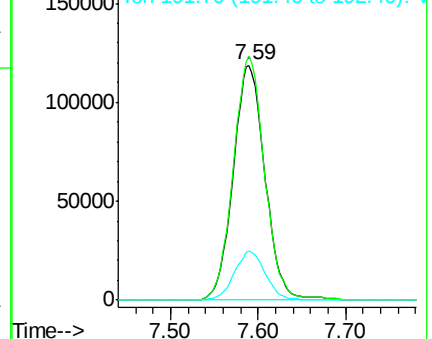
113 100

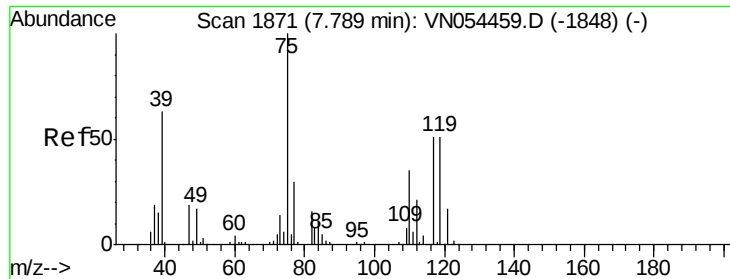
111 101.4 82.2 123.4

192 20.4 19.2 28.8



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

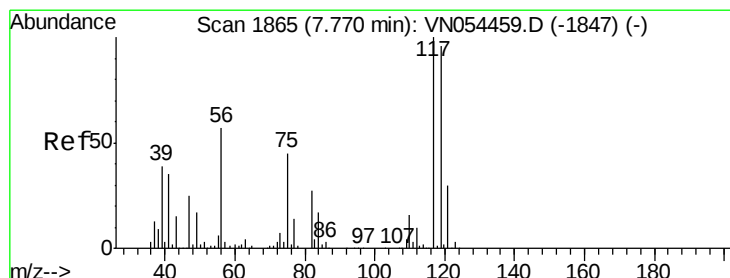
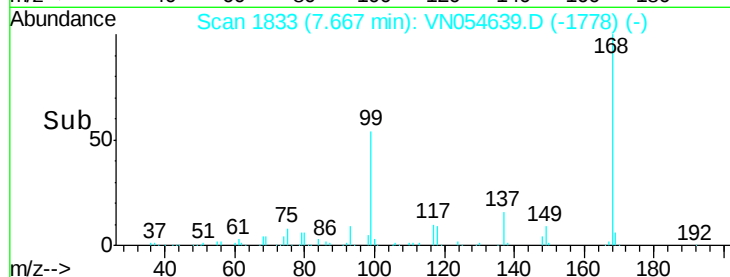
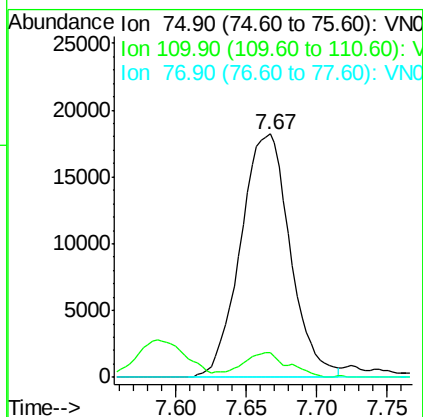
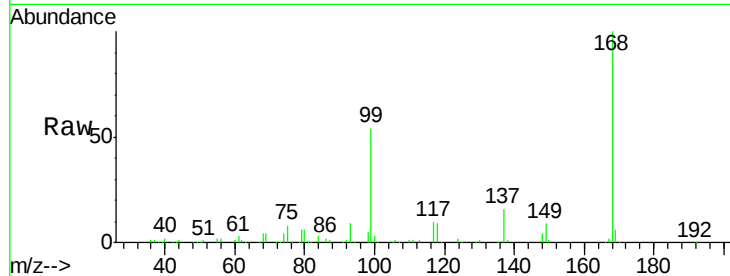




#36
 1,1-Dichloropropene
 Concen: 5.058 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054639.D
 Acq: 24 Mar 2019 11:09

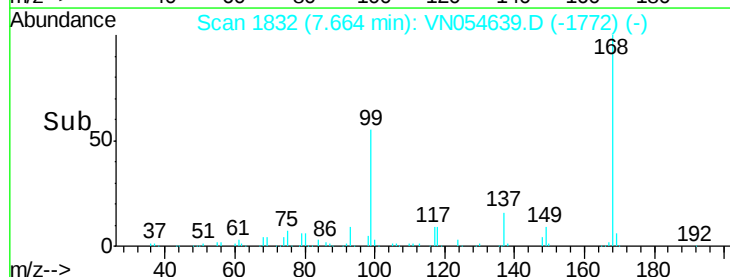
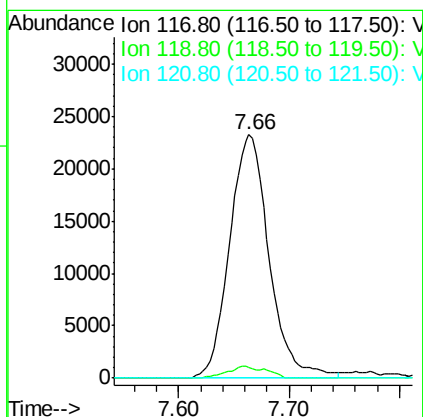
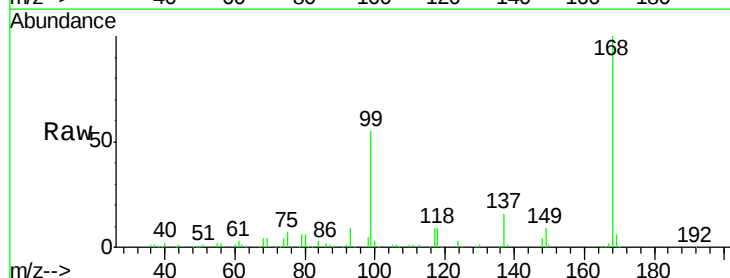
Instrument :
 MSVOA_N
 ClientSampleId :

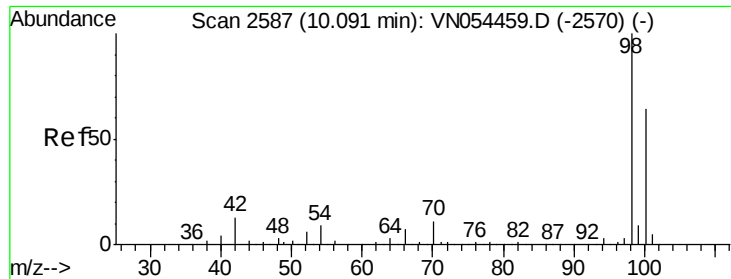
Tot Ion	75	Resp	44827
Ion Ratio	100	Lower	Upper
75	100		
110	9.6	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.704 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054639.D
 Acq: 24 Mar 2019 11:09

Tgt Ion	117	Resp	57738
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.5	76.3	114.5#
121	0.0	24.6	36.8#





#50

Toluene-d8

Concen: 49.475 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :

MSVOA_N

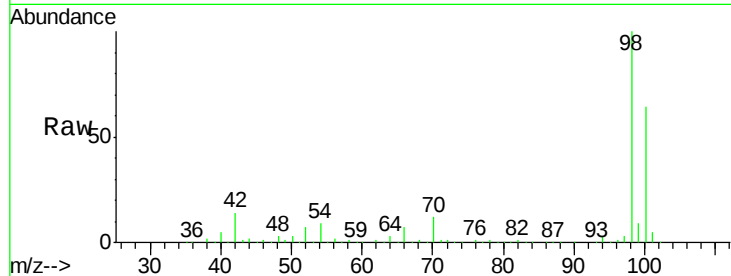
ClientSampled :

Tot Ion: 98 Resp: 1135782

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)

10.09

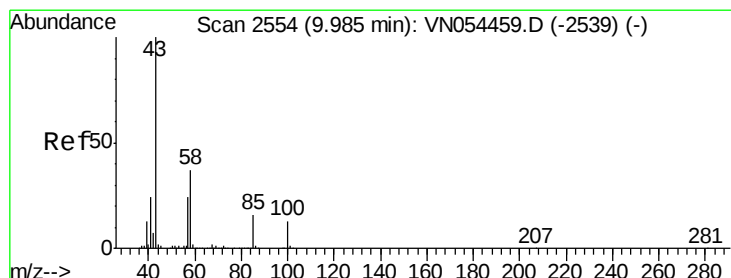
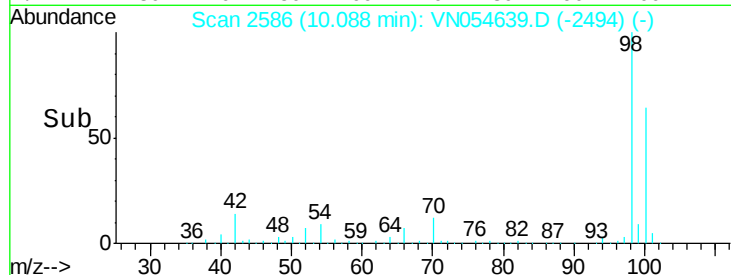
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.342 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054639.D

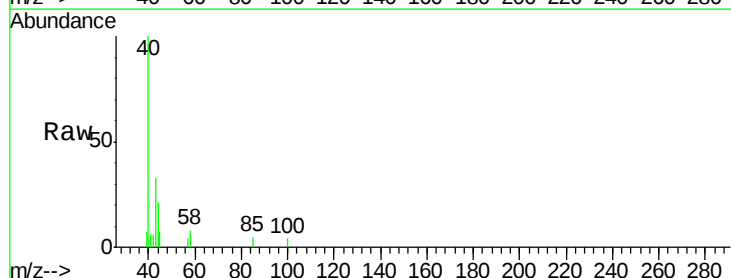
Acq: 24 Mar 2019 11:09

Tgt Ion: 43 Resp: 2019

Ion Ratio Lower Upper

43 100

58 35.5 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)

9.99

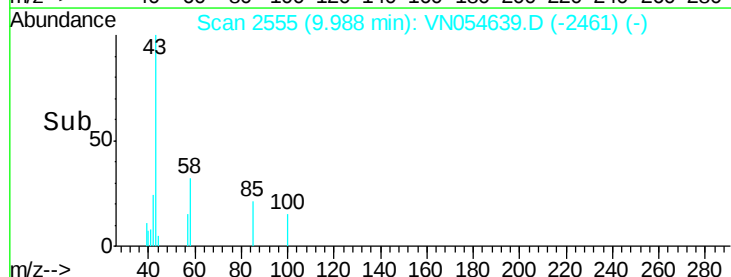
1500

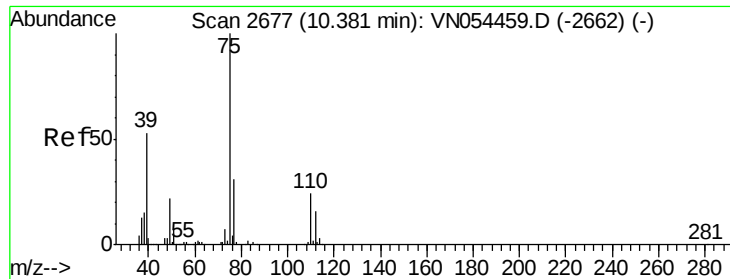
1000

500

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.245 ug/l

RT: 10.41 min Scan# 2685

Delta R.T. 0.03 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :

MSVOA_N

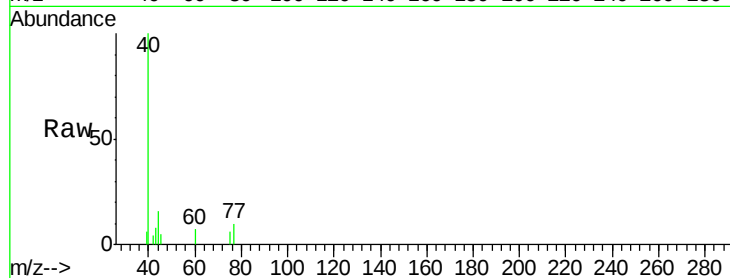
ClientSampled :

Tot Ion: 75 Resp: 123

Ion Ratio Lower Upper

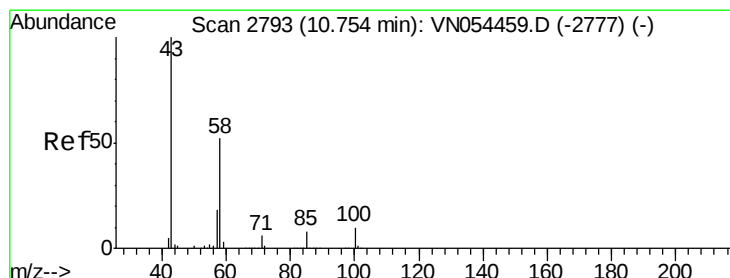
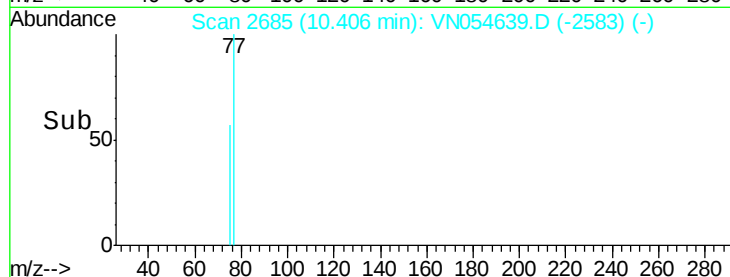
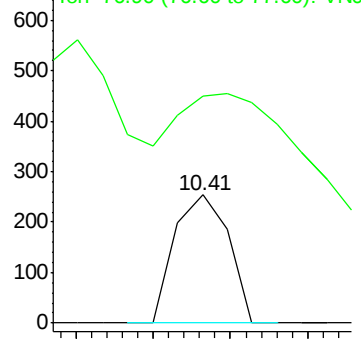
75 100

77 29.9 25.8 38.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#59

2-Hexanone

Concen: 0.781 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VN054639.D

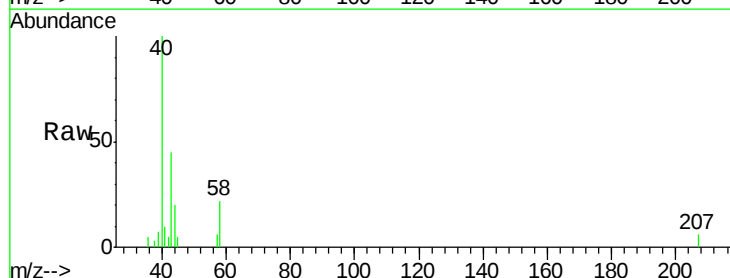
Acq: 24 Mar 2019 11:09

Tgt Ion: 43 Resp: 3009

Ion Ratio Lower Upper

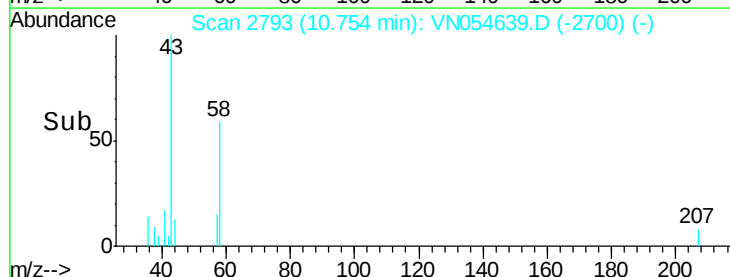
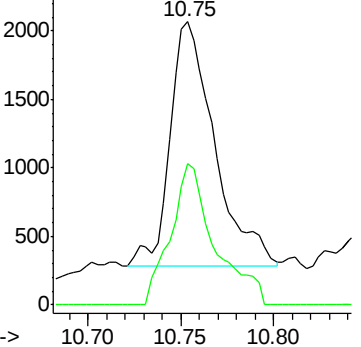
43 100

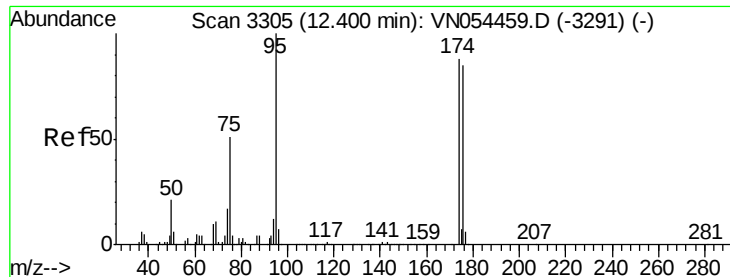
58 56.4 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.153 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

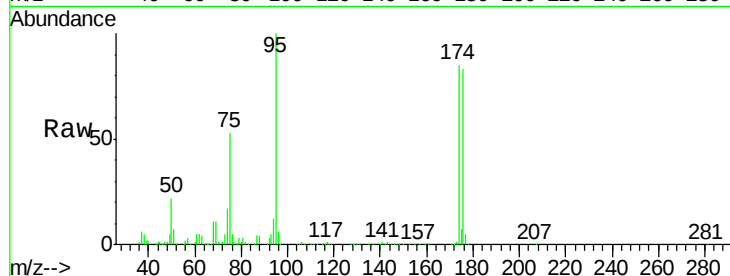
Tot Ion: 95 Resp: 352725

Ion Ratio Lower Upper

95 100

174 84.1 0.0 191.0

176 82.5 0.0 187.4

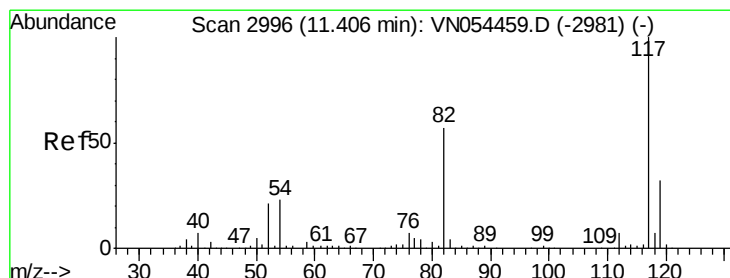
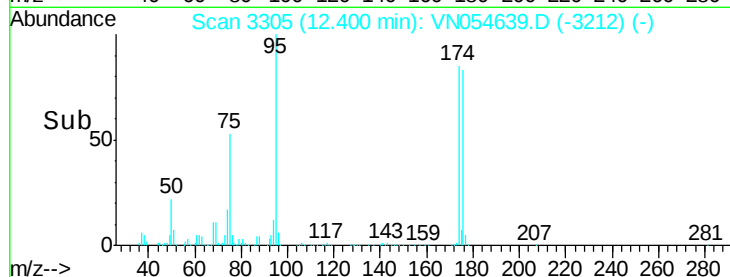
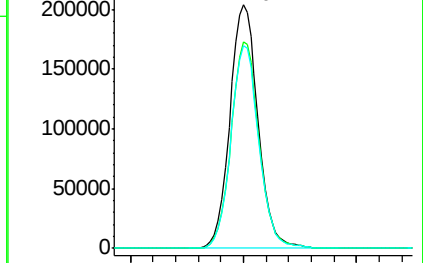


Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

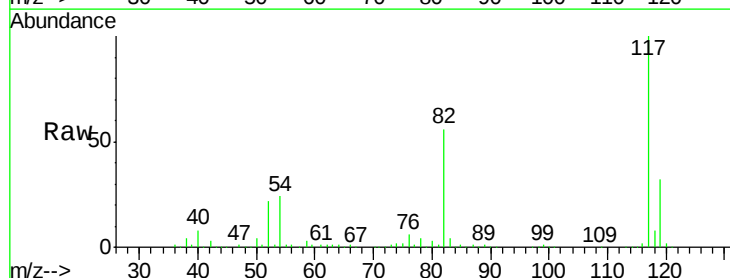
Tgt Ion: 117 Resp: 792527

Ion Ratio Lower Upper

117 100

82 56.5 40.0 60.0

119 32.4 25.8 38.6

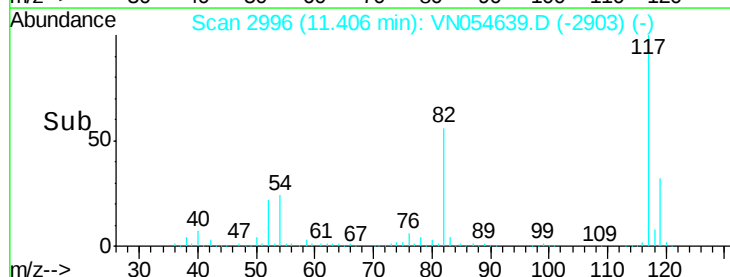
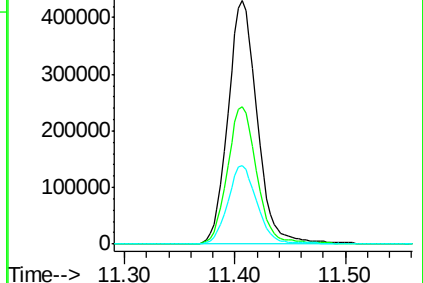


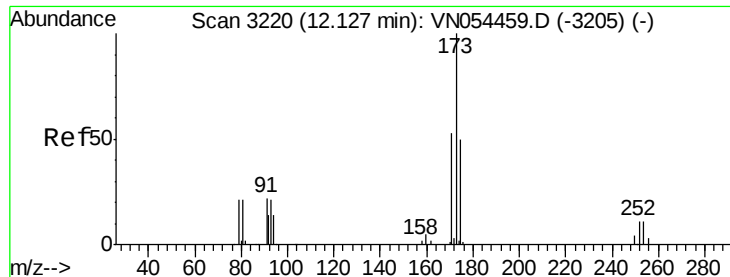
Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)

11.41





#71

Bromoform

Concen: 2.268 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

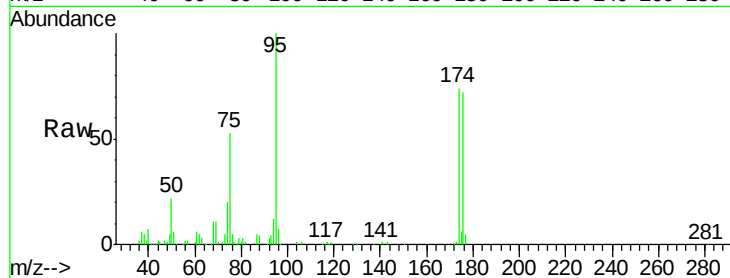
Tot Ion:173 Resp: 200

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

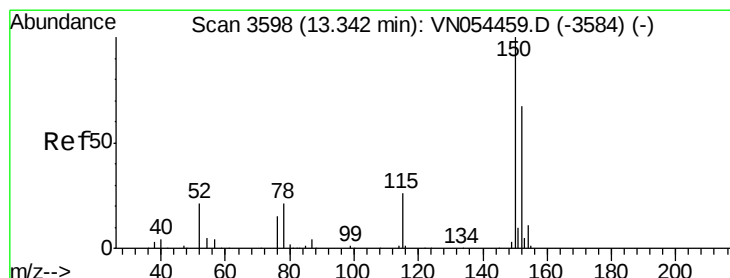
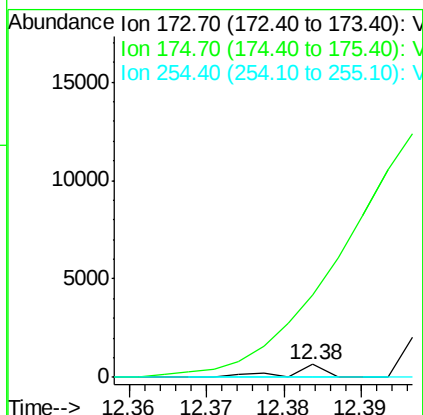
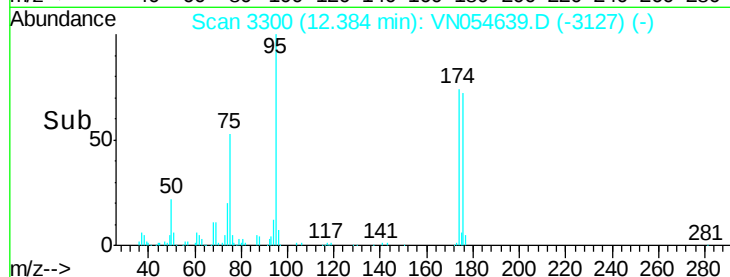
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

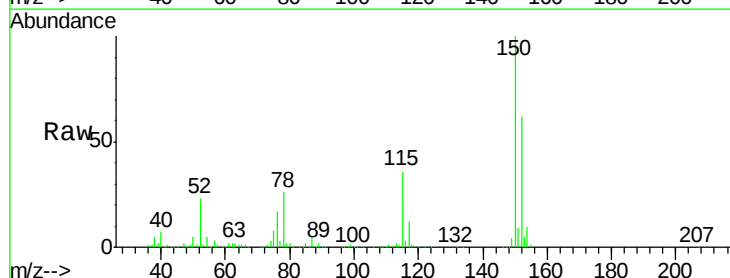
Tgt Ion:152 Resp: 287229

Ion Ratio Lower Upper

152 100

115 58.3 27.2 81.6

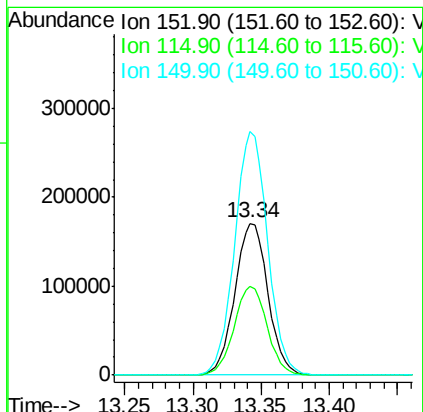
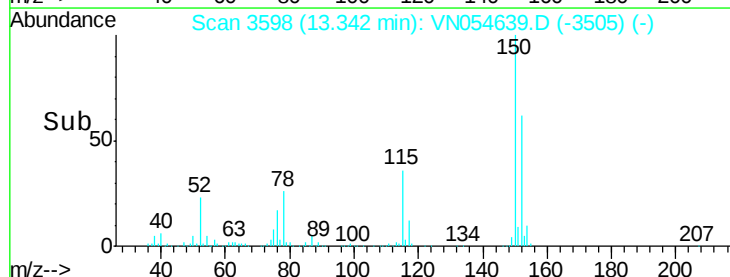
150 160.0 0.0 349.2

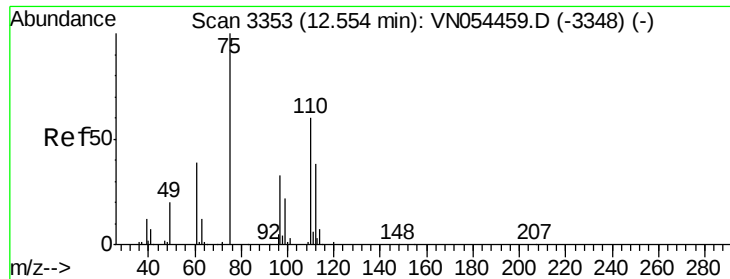


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 40.629 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :

MSVOA_N

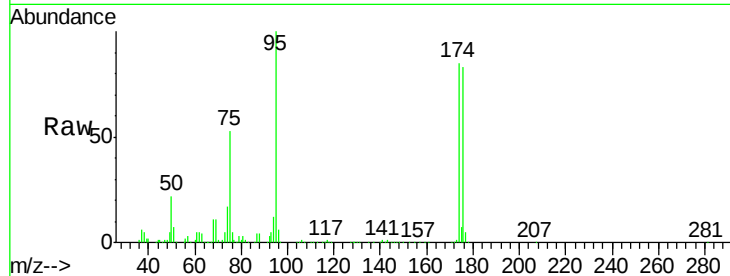
ClientSampleId :

Tot Ion: 75 Resp: 185183

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

120000

100000

80000

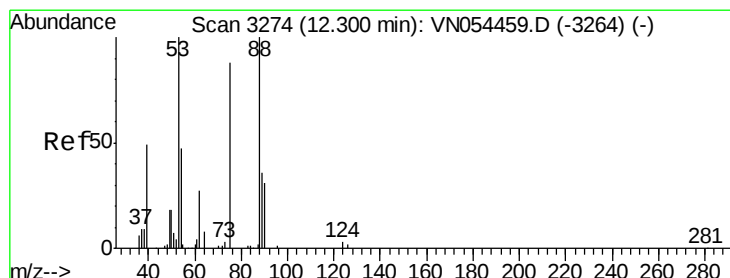
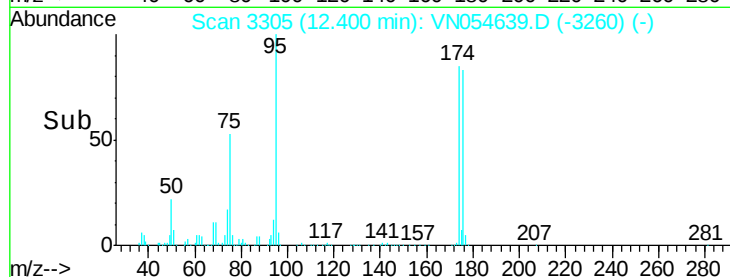
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 134.350 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

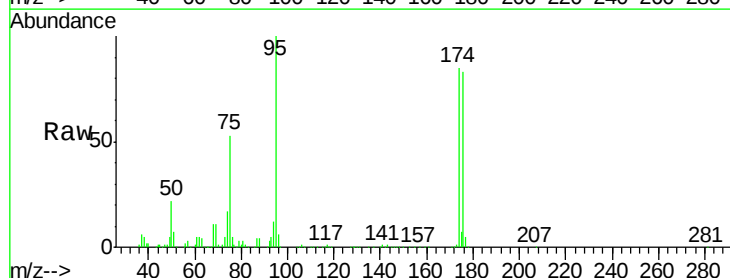
Tgt Ion: 75 Resp: 185183

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

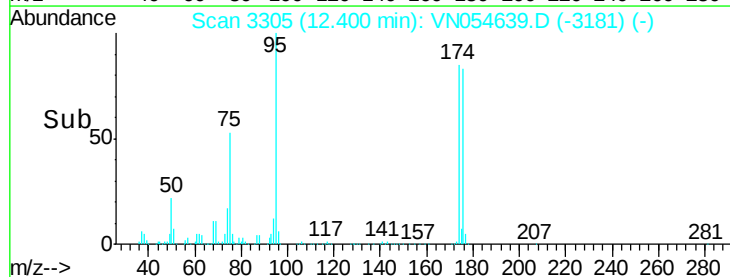
150000

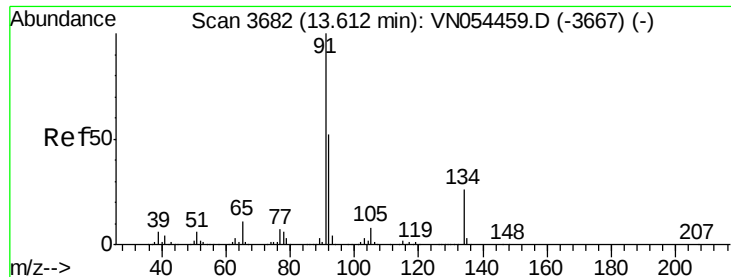
100000

50000

0

Time--> 12.30 12.40 12.50

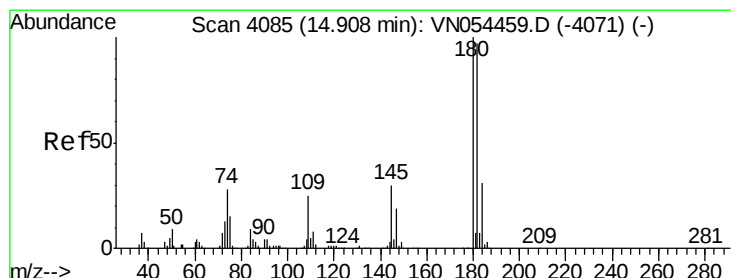
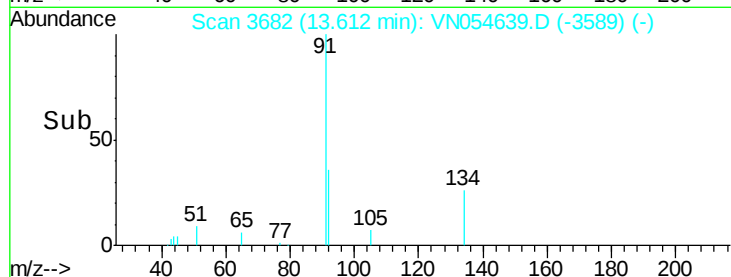
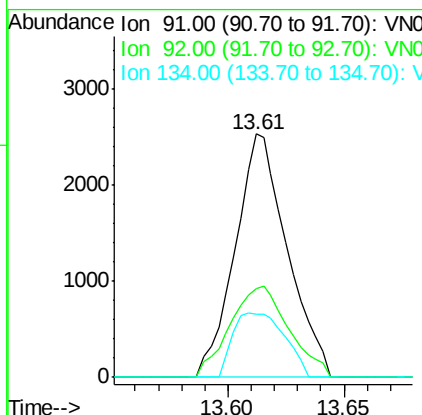
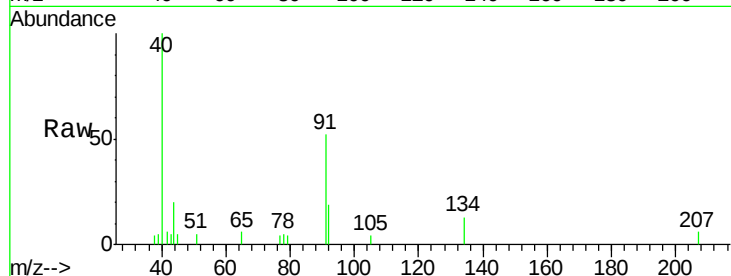




#89
n-Butylbenzene
Concen: 0.274 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054639.D
Acq: 24 Mar 2019 11:09

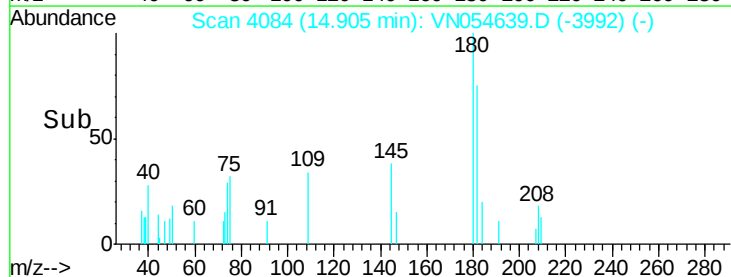
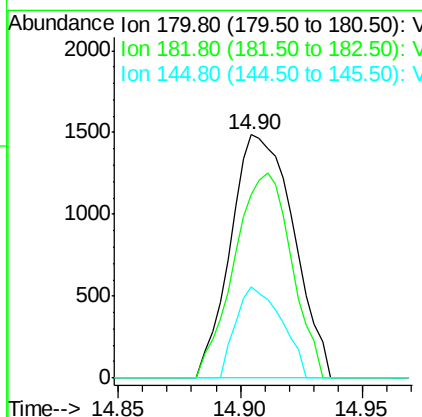
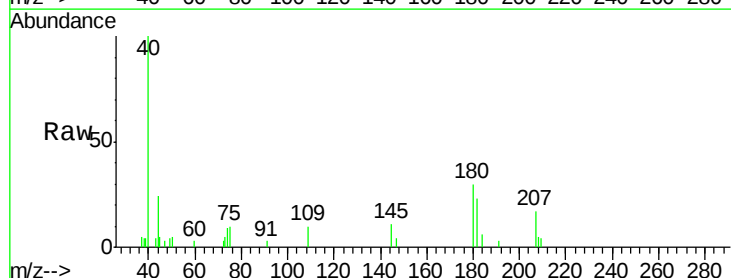
Instrument :
MSVOA_N
ClientSampleId :

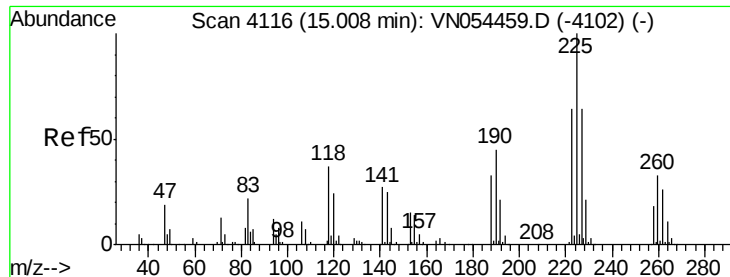
Tot Ion: 91 Resp: 3945
Ion Ratio Lower Upper
91 100
92 42.4 26.2 78.6
134 26.2 14.3 42.9



#93
1,2,4-Trichlorobenzene
Concen: 0.578 ug/l
RT: 14.90 min Scan# 4084
Delta R.T. -0.00 min
Lab File: VN054639.D
Acq: 24 Mar 2019 11:09

Tgt Ion: 180 Resp: 2657
Ion Ratio Lower Upper
180 100
182 76.6 48.0 144.2
145 27.4 14.2 42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

Instrument :

MSVOA_N

ClientSampled :

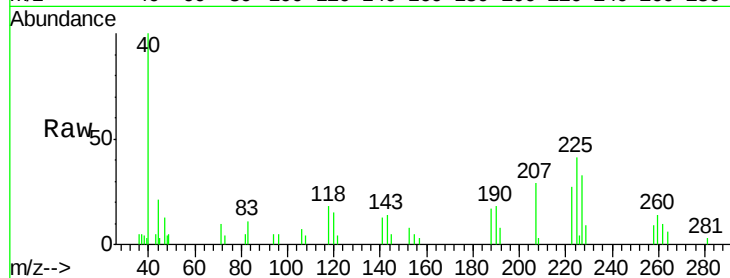
Tot Ion:225 Resp: 3452

Ion Ratio Lower Upper

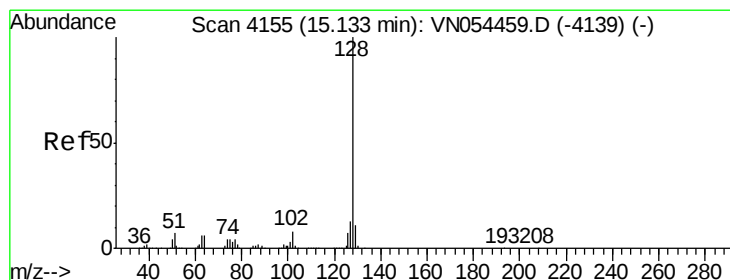
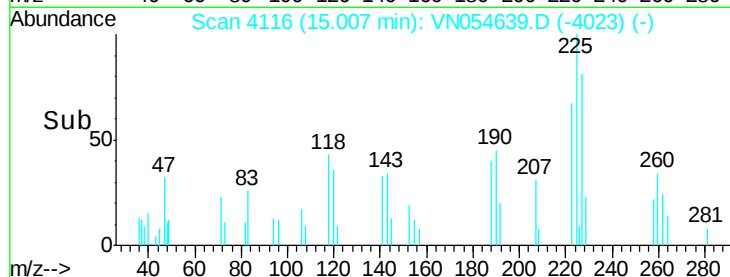
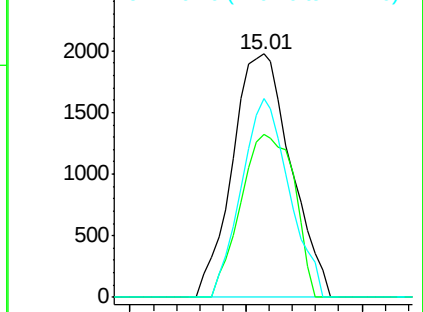
225 100

223 61.4 31.1 93.5

227 66.8 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.745 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054639.D

Acq: 24 Mar 2019 11:09

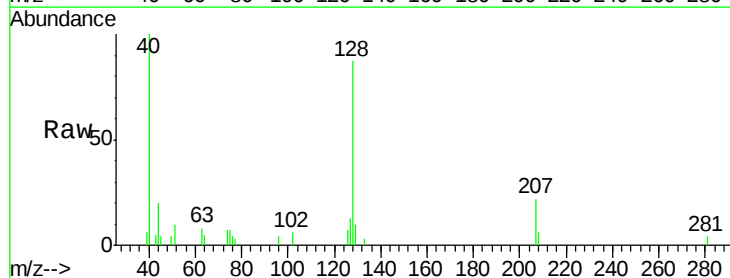
Tgt Ion:128 Resp: 7628

Ion Ratio Lower Upper

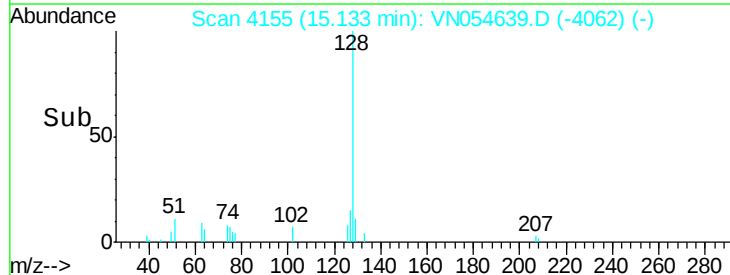
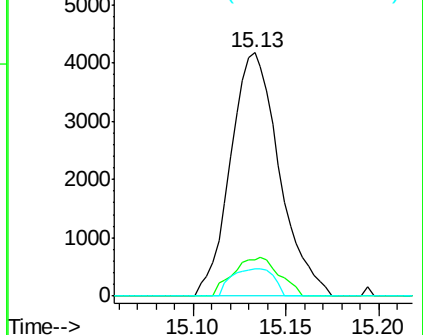
128 100

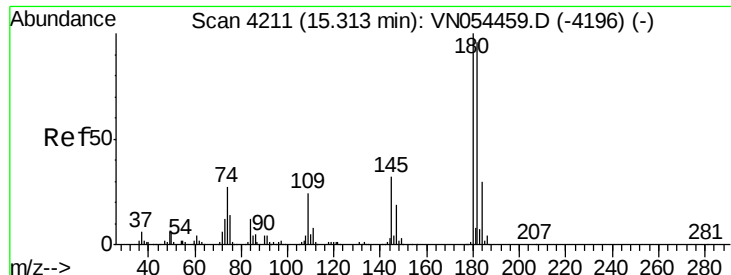
127 15.0 10.1 15.1

129 9.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

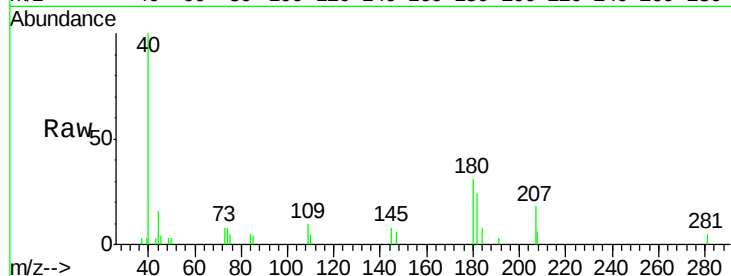




#96
 1,2,3-Trichlorobenzene
 Concen: 0.674 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN054639.D
 Acq: 24 Mar 2019 11:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.3	47.5	142.6
145	26.4	14.8	44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

