

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100119\
 Data File : VN058452.D
 Acq On : 1 Oct 2019 10:22
 Operator : JC/SP
 Sample : VN1001MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1001MBL01

Quant Time: Oct 02 01:25:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	415784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	672070	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	556394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207796	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	295619	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	
35) Dibromofluoromethane	7.57	113	209713	50.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.82%	
50) Toluene-d8	10.09	98	834739	51.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.46%	
62) 4-Bromofluorobenzene	12.41	95	252086	43.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.42%	

Target Compounds

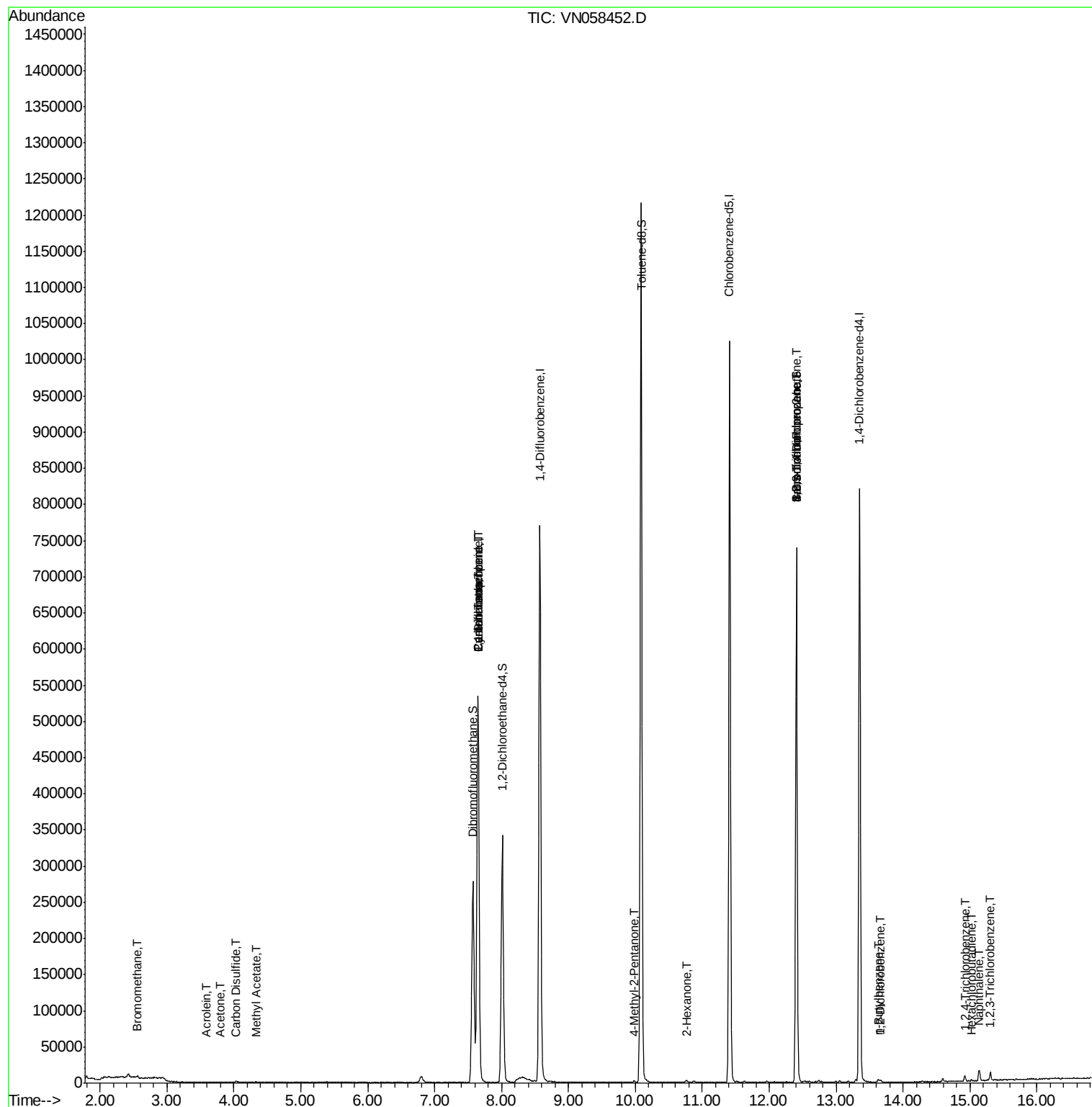
						Qvalue
5) Bromomethane	2.56	94	929	0.356	ug/l #	80
13) Acrolein	3.59	56	231	1.076	ug/l #	65
16) Acetone	3.81	43	487	0.235	ug/l #	47
17) Carbon Disulfide	4.03	76	2590	0.251	ug/l #	83
18) Methyl Acetate	4.32	43	1127	0.216	ug/l #	59
31) Cyclohexane	7.65	56	10050	1.195	ug/l #	26
36) 1,1-Dichloropropene	7.65	75	35304	5.494	ug/l #	51
38) Carbon Tetrachloride	7.65	117	43877	7.564	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	1282	0.244	ug/l	91
59) 2-Hexanone	10.76	43	3838	1.002	ug/l	76
60) Dibromochloromethane	10.63	129	154	Below Cal	#	11
71) Bromoform	12.41	173	594	0.922	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	138612	36.521	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	138612	110.919	ug/l #	7
89) n-Butylbenzene	13.63	91	2921	0.257	ug/l	86
91) 1,2-Dichlorobenzene	13.66	146	1318	0.210	ug/l #	51
93) 1,2,4-Trichlorobenzene	14.92	180	2803	0.809	ug/l	94
94) Hexachlorobutadiene	15.02	225	455	0.255	ug/l #	70
95) Naphthalene	15.14	128	13840	1.335	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	3665	1.030	ug/l	96

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

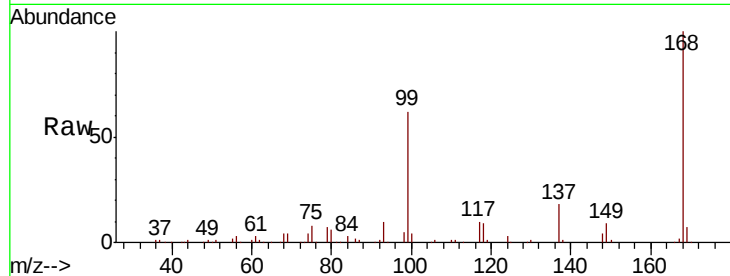
VN1001MBL01

Tot Ion:168 Resp: 415784

Ion Ratio Lower Upper

168 100

99 61.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

200000

150000

100000

50000

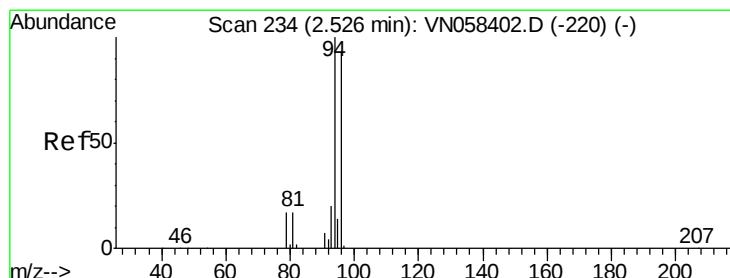
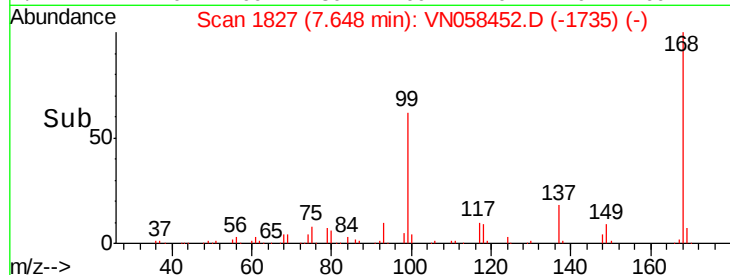
0

7.60

7.65

7.70

Time-->



#5

Bromomethane

Concen: 0.356 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.04 min

Lab File: VN058452.D

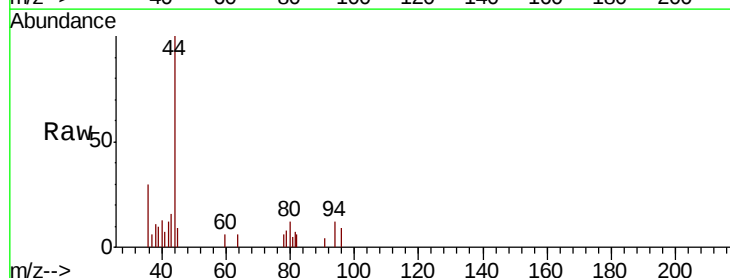
Acq: 1 Oct 2019 10:22

Tgt Ion: 94 Resp: 929

Ion Ratio Lower Upper

94 100

96 74.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

400

300

200

100

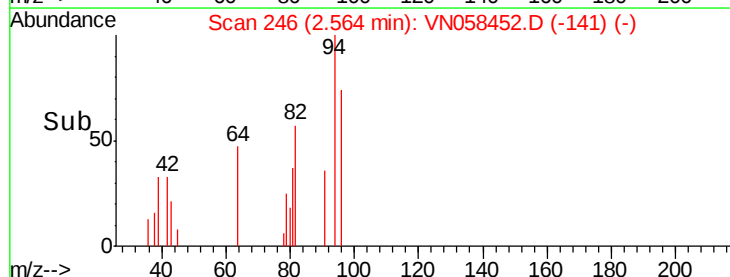
0

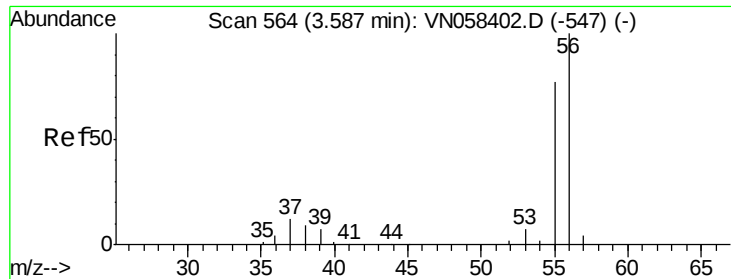
2.50

2.55

2.60

Time-->





#13

Acrolein

Concen: 1.076 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

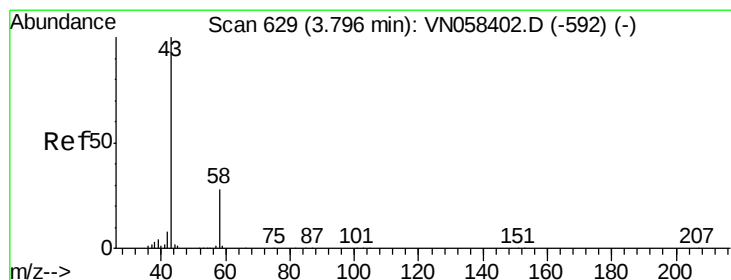
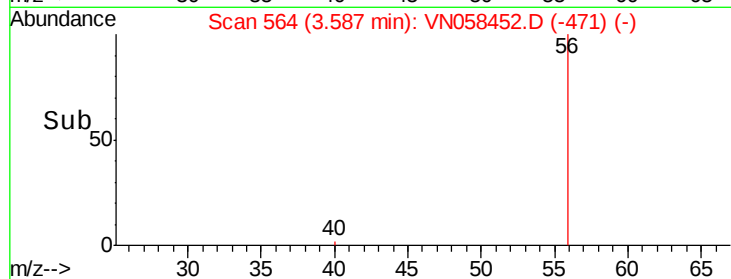
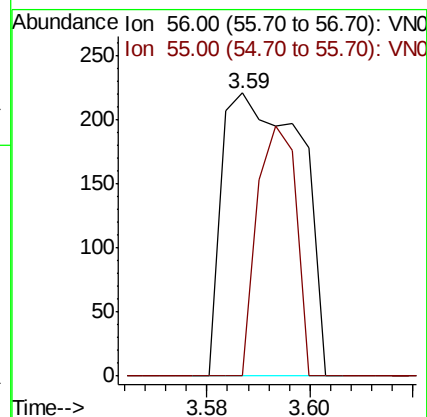
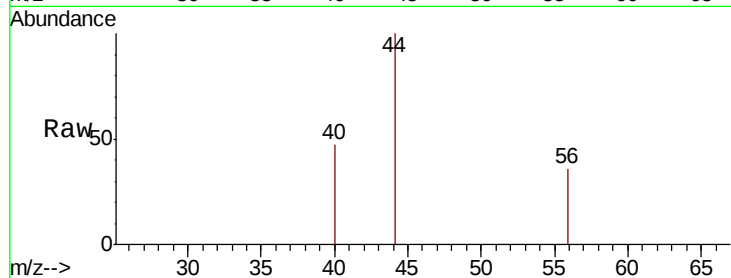
VN1001MBL01

Tot Ion: 56 Resp: 231

Ion Ratio Lower Upper

56 100

55 43.7 58.3 87.5#



#16

Acetone

Concen: 0.235 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN058452.D

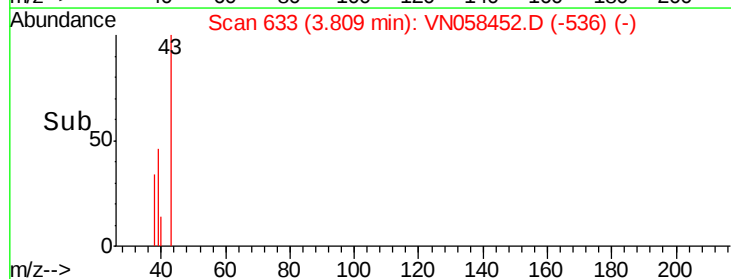
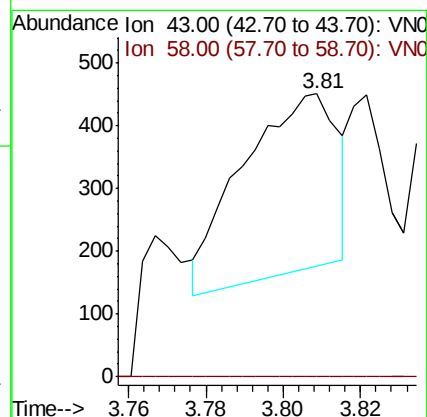
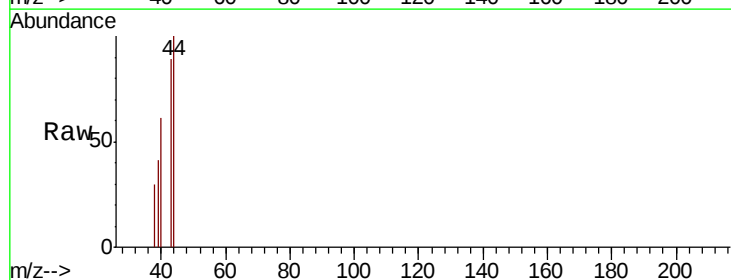
Acq: 1 Oct 2019 10:22

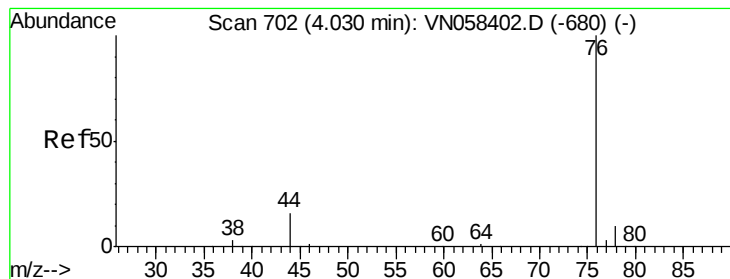
Tgt Ion: 43 Resp: 487

Ion Ratio Lower Upper

43 100

58 0.0 22.4 33.6#





#17

Carbon Disulfide

Concen: 0.251 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

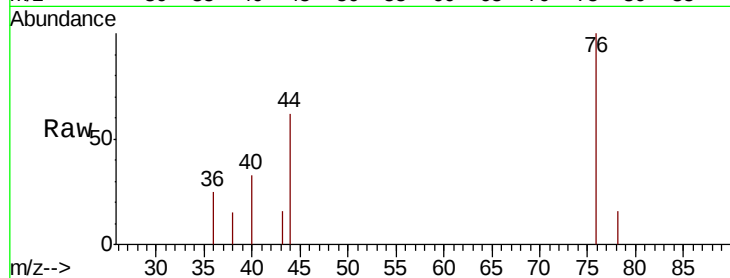
VN1001MBL01

Tot Ion: 76 Resp: 2590

Ion Ratio Lower Upper

76 100

78 15.8 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

1200

1000

800

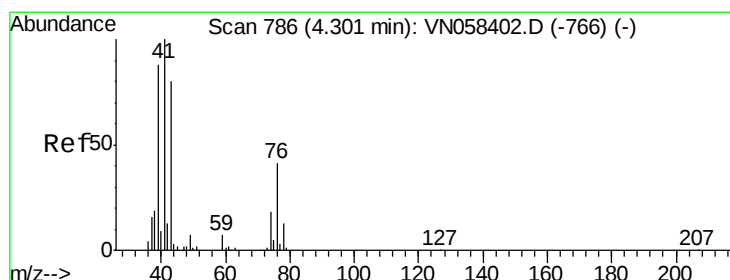
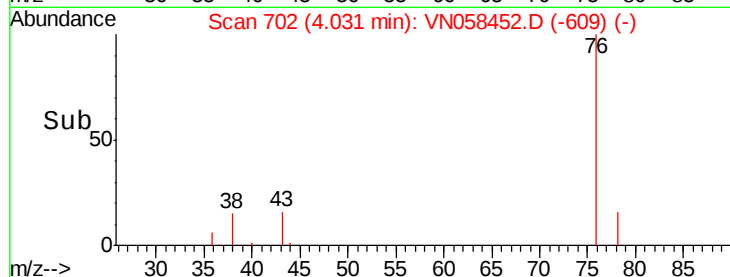
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 0.216 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.02 min

Lab File: VN058452.D

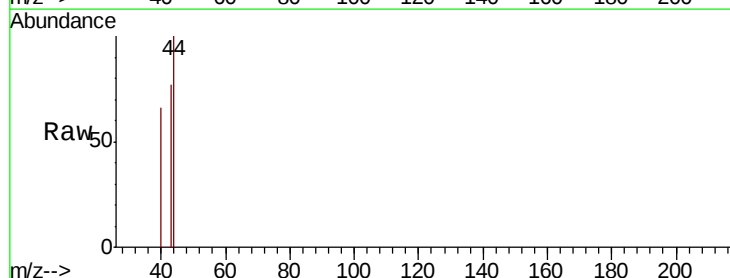
Acq: 1 Oct 2019 10:22

Tgt Ion: 43 Resp: 1127

Ion Ratio Lower Upper

43 100

74 2.8 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

500

400

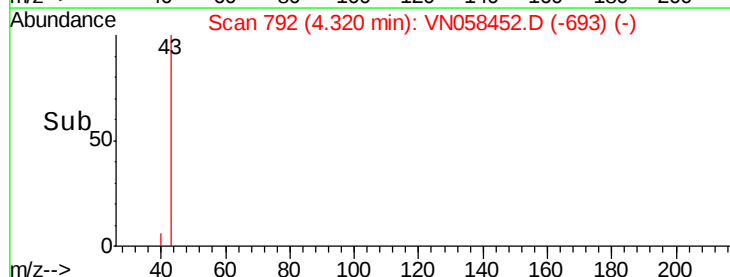
300

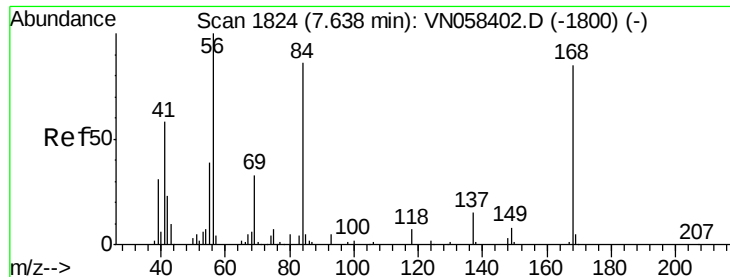
200

100

0

Time-->





#31

Cyclohexane

Concen: 1.195 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN1001MBL01

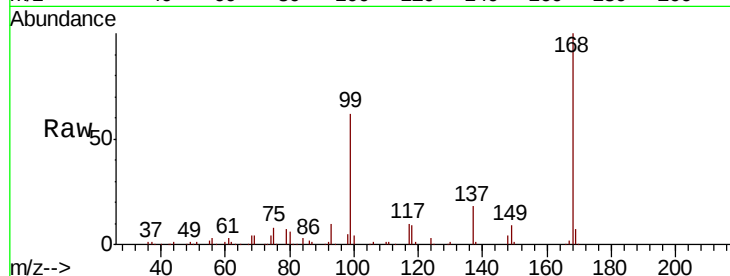
Tot Ion: 56 Resp: 10050

Ion Ratio Lower Upper

56 100

69 145.3 26.2 39.4#

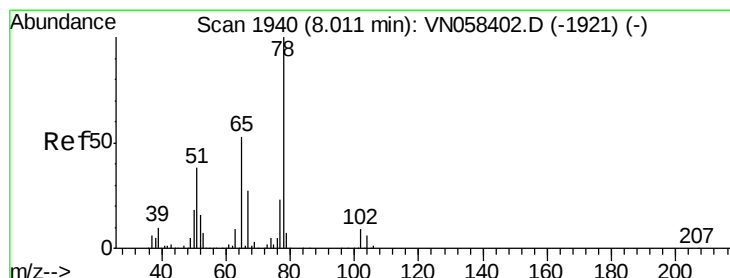
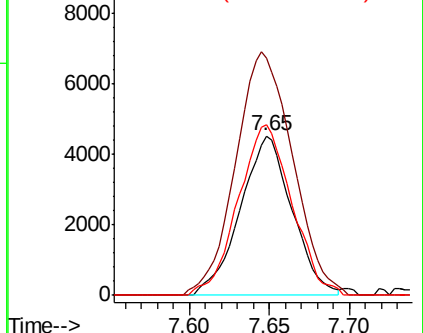
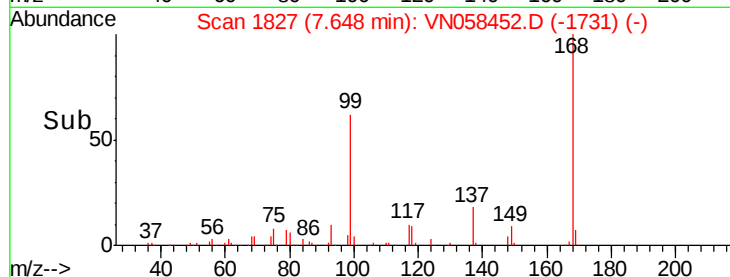
84 107.1 67.6 101.4#



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: 48.653 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058452.D

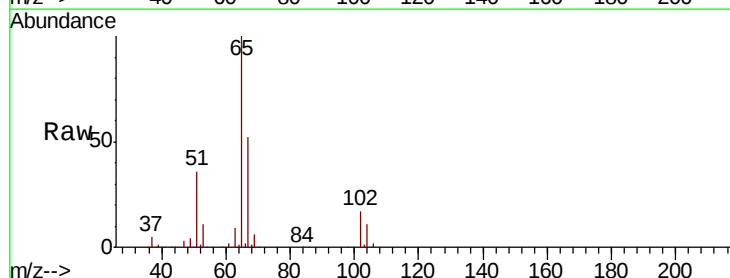
Acq: 1 Oct 2019 10:22

Tgt Ion: 65 Resp: 295619

Ion Ratio Lower Upper

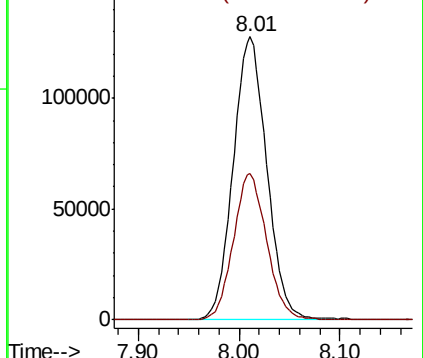
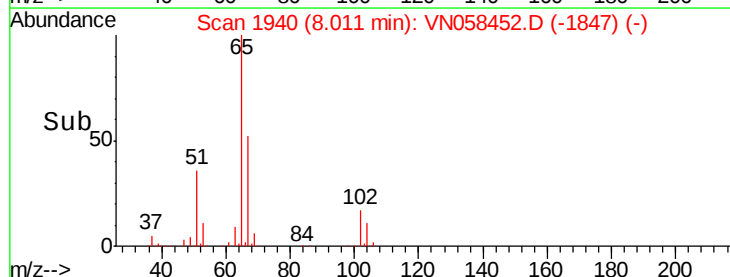
65 100

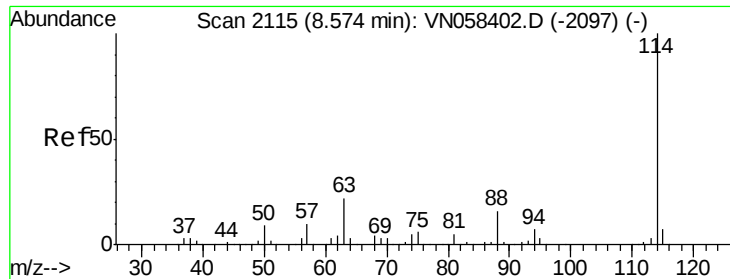
67 51.2 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

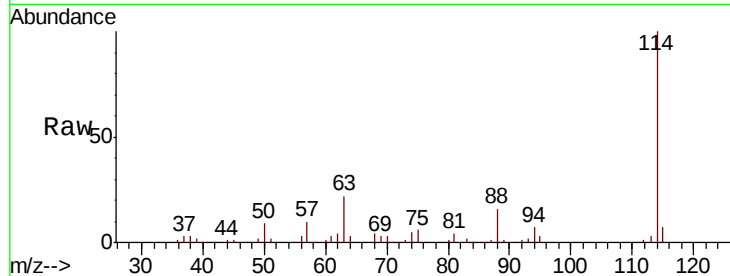




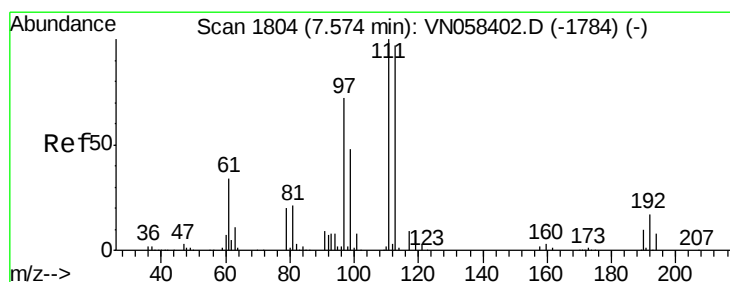
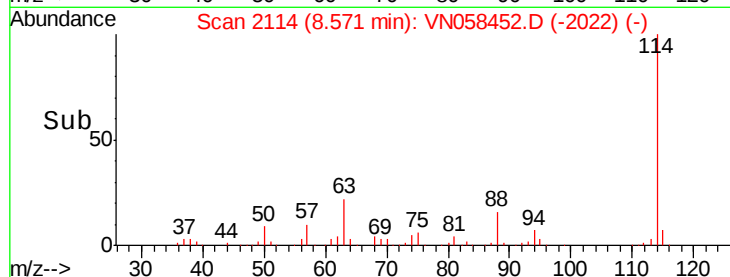
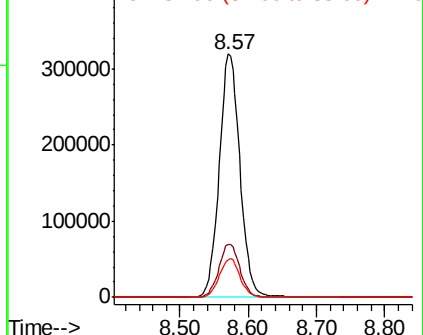
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058452.D
 Acq: 1 Oct 2019 10:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1001MBL01

Tot Ion:114 Resp: 672070
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 45.0
 88 15.5 0.0 32.2

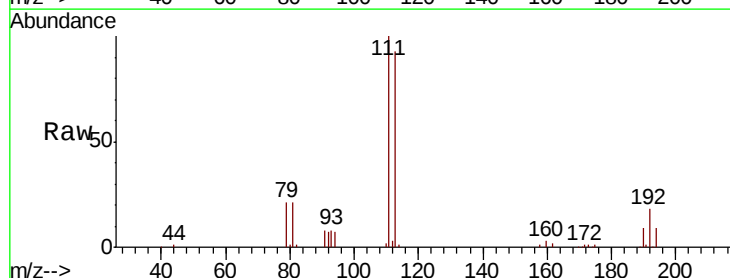


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

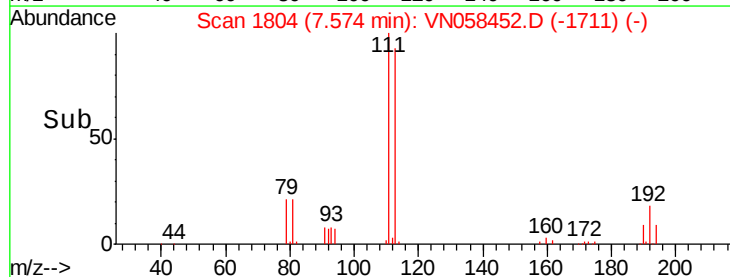
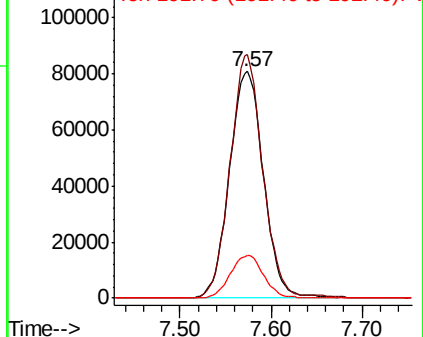


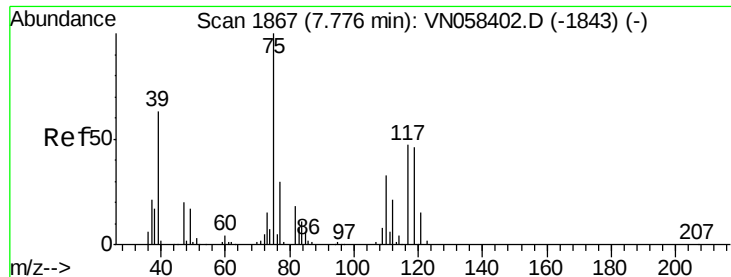
#35
 Dibromofluoromethane
 Concen: 50.913 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058452.D
 Acq: 1 Oct 2019 10:22

Tgt Ion:113 Resp: 209713
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.4 125.2
 192 18.5 14.9 22.3



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

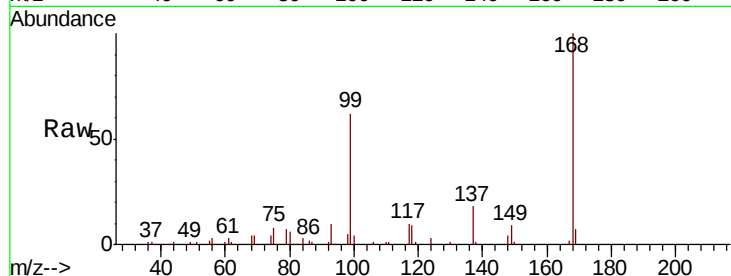




#36
 1,1-Dichloropropene
 Concen: 5.494 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058452.D
 Acq: 1 Oct 2019 10:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1001MBL01

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.4	49.2#
77	0.0	24.3	36.5#

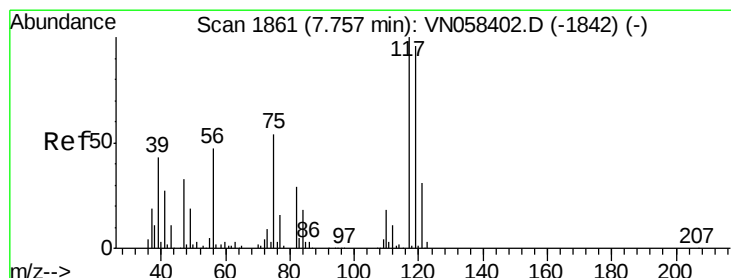
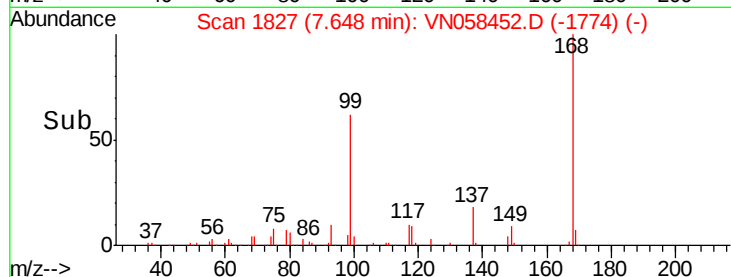
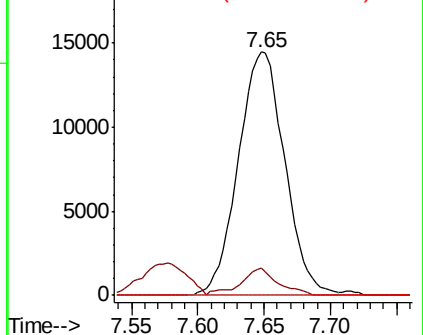


Abundance

Ion 74.90 (74.60 to 75.60): VN058402.D (-1843) (-)

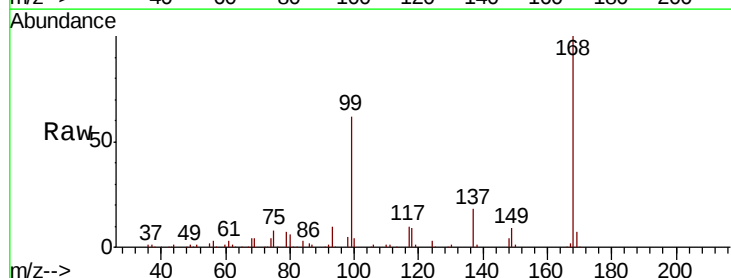
Ion 109.90 (109.60 to 110.60): VN058402.D (-1843) (-)

Ion 76.90 (76.60 to 77.60): VN058402.D (-1843) (-)



#38
 Carbon Tetrachloride
 Concen: 7.564 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058452.D
 Acq: 1 Oct 2019 10:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.6	115.0#
121	0.0	24.7	37.1#

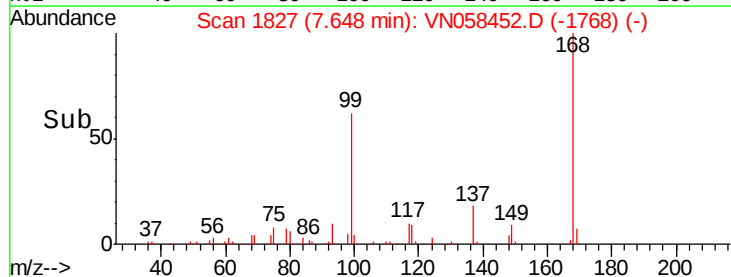
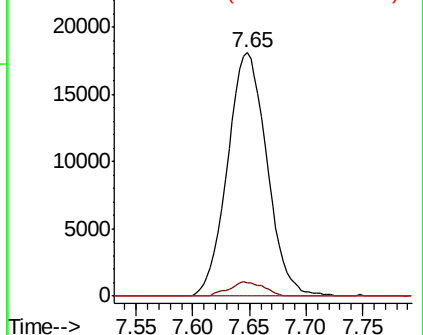


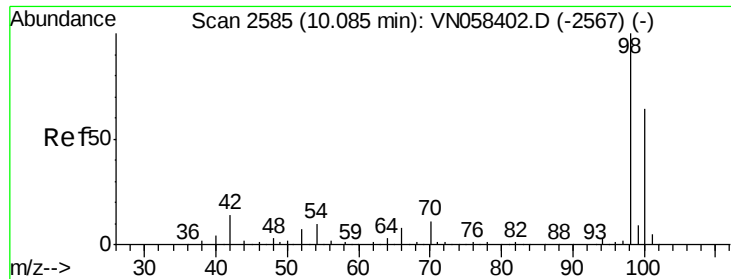
Abundance

Ion 116.80 (116.50 to 117.50): VN058402.D (-1842) (-)

Ion 118.80 (118.50 to 119.50): VN058402.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN058402.D (-1842) (-)





#50

Toluene-d8

Concen: 51.731 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampled :

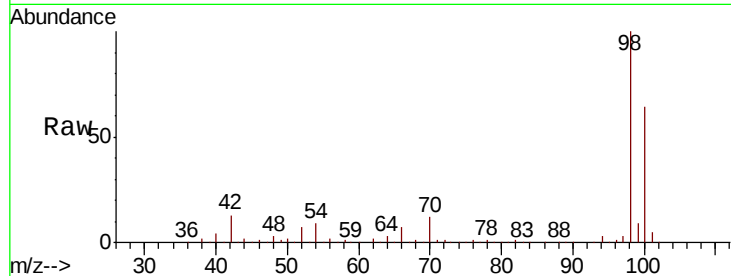
VN1001MBL01

Tot Ion: 98 Resp: 834739

Ion Ratio Lower Upper

98 100

100 63.4 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

500000

400000

300000

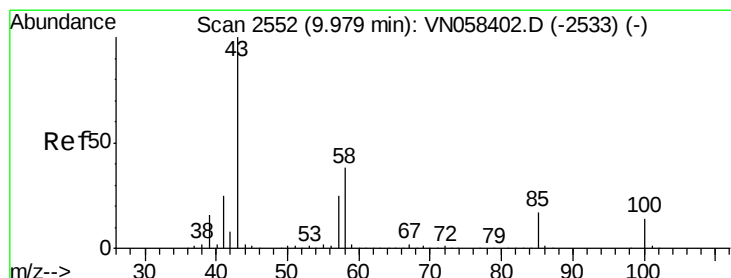
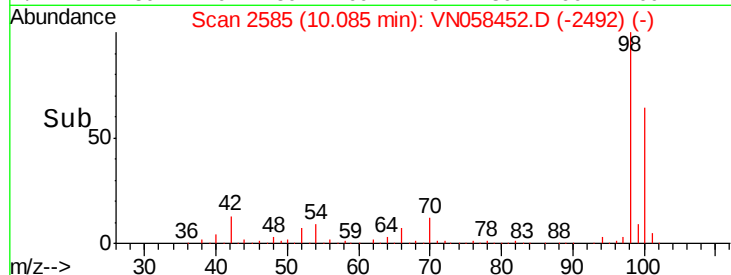
200000

100000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.244 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058452.D

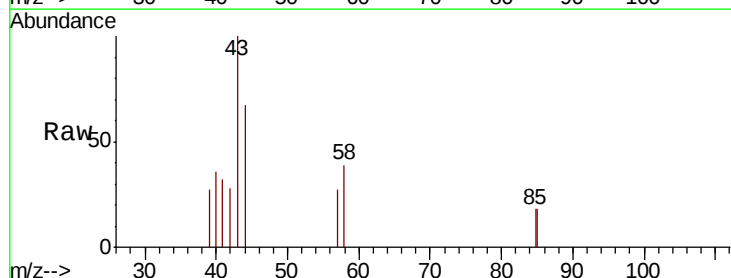
Acq: 1 Oct 2019 10:22

Tgt Ion: 43 Resp: 1282

Ion Ratio Lower Upper

43 100

58 42.9 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

1000

800

600

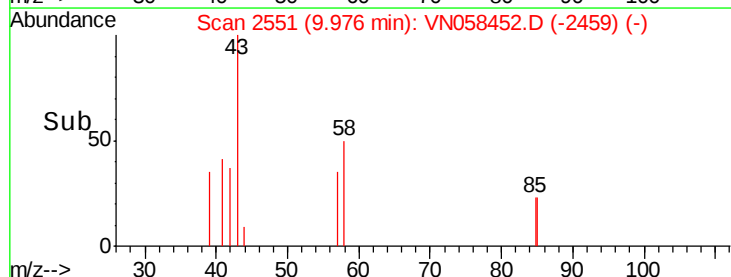
400

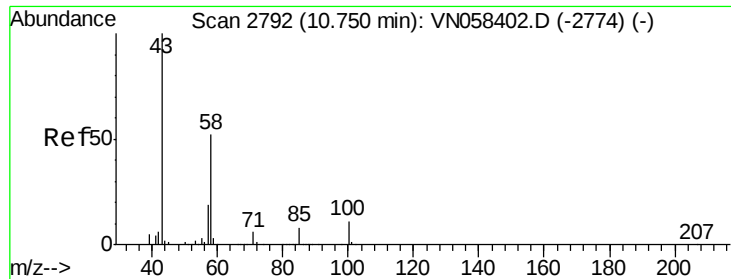
200

0

Time-->

9.94 9.96 9.98

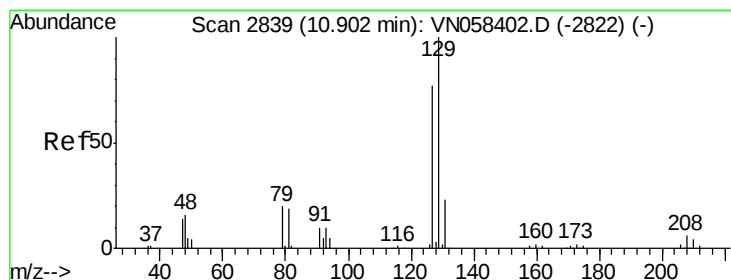
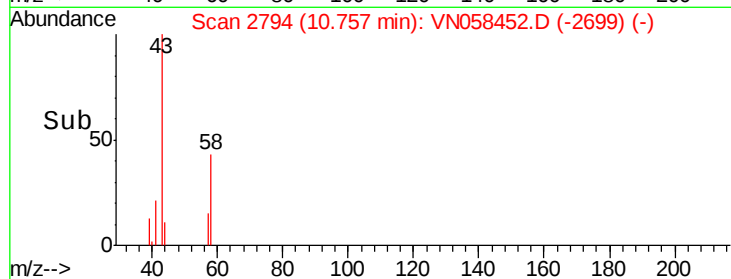
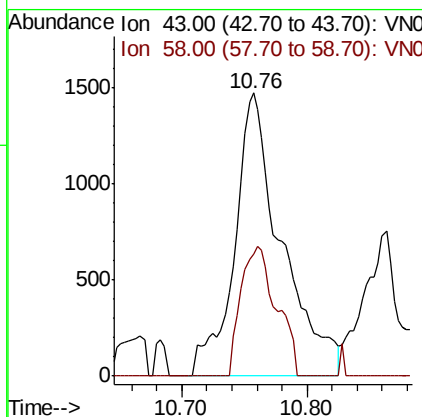
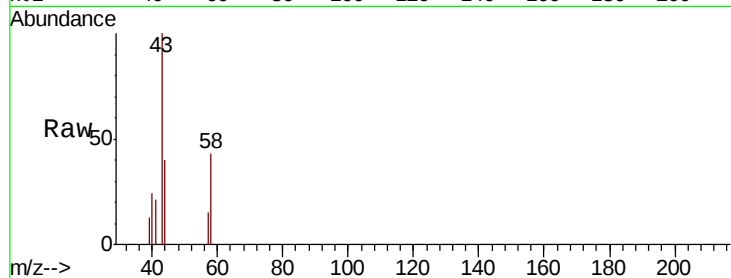




#59
2-Hexanone
Concen: 1.002 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN058452.D
Acq: 1 Oct 2019 10:22

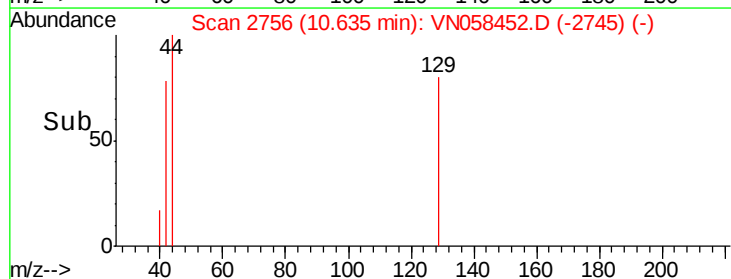
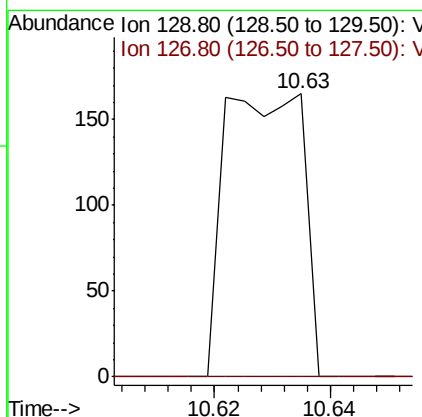
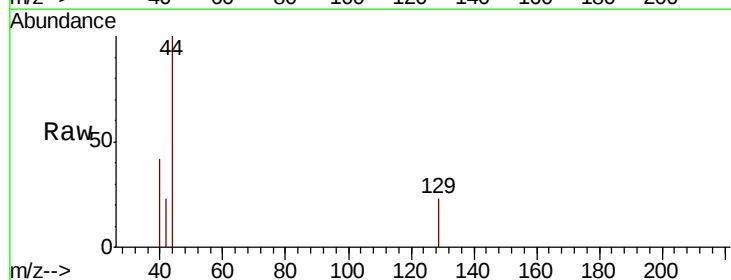
Instrument :
MSVOA_N
ClientSampleId :
VN1001MBL01

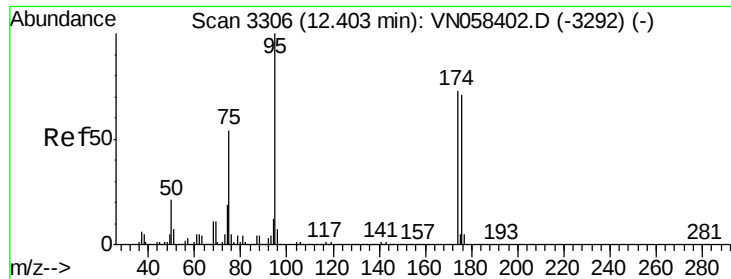
Tot Ion: 43 Resp: 3838
Ion Ratio Lower Upper
43 100
58 34.8 25.8 77.3



#60
Dibromochloromethane
Concen: Below Cal
RT: 10.63 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN058452.D
Acq: 1 Oct 2019 10:22

Tgt Ion: 129 Resp: 154
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#

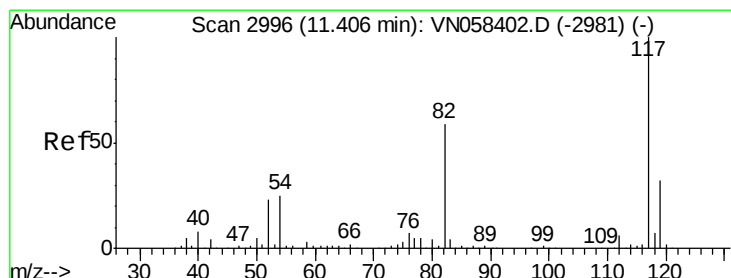
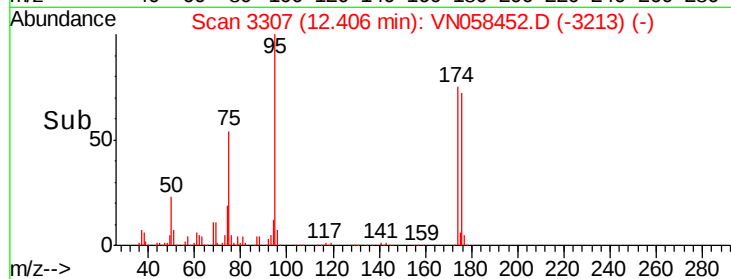
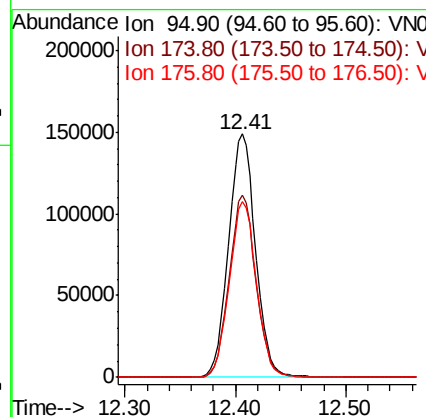
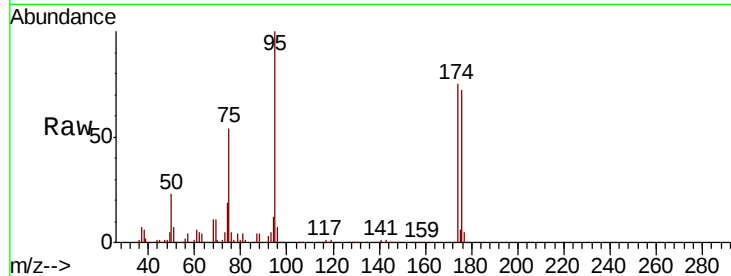




#62
4-Bromofluorobenzene
Concen: 43.206 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058452.D
Acq: 1 Oct 2019 10:22

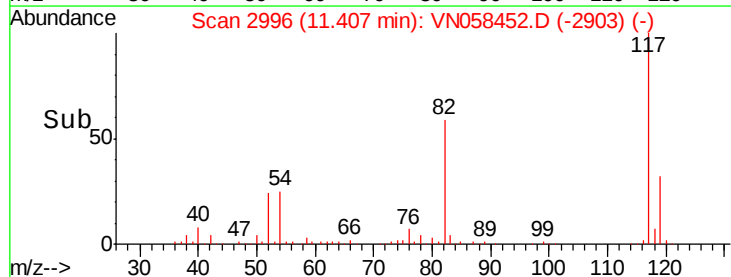
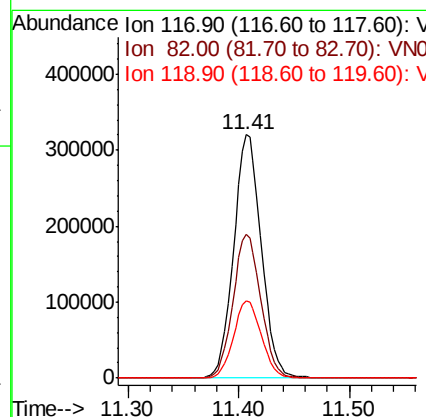
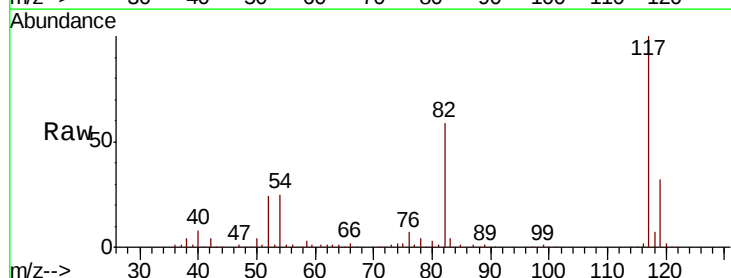
Instrument :
MSVOA_N
ClientSampleId :
VN1001MBL01

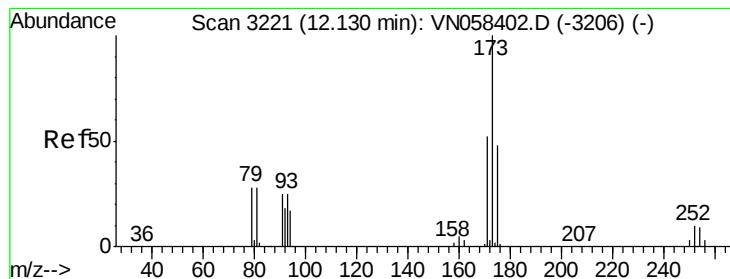
Tot Ion: 95 Resp: 252086
Ion Ratio Lower Upper
95 100
174 74.5 0.0 150.6
176 72.9 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058452.D
Acq: 1 Oct 2019 10:22

Tgt Ion: 117 Resp: 556394
Ion Ratio Lower Upper
117 100
82 59.1 47.4 71.0
119 32.0 25.5 38.3





#71

Bromoform

Concen: 0.922 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN1001MBL01

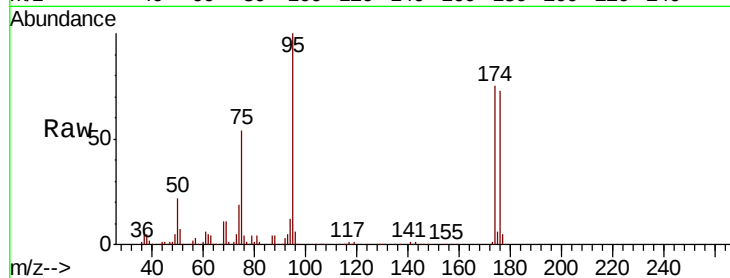
Tot Ion:173 Resp: 594

Ion Ratio Lower Upper

173 100

175 1946.8 24.3 73.0#

254 0.0 0.1 0.1#

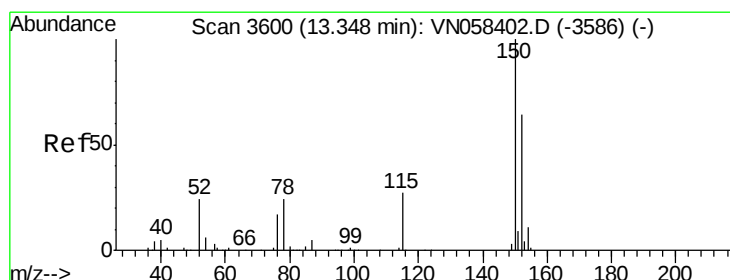
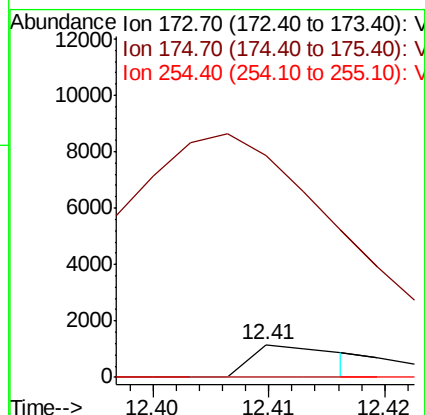
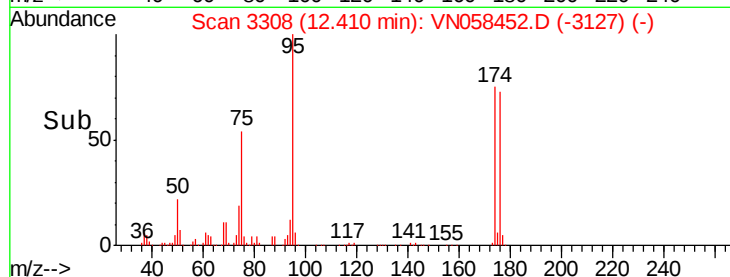


Abundance

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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

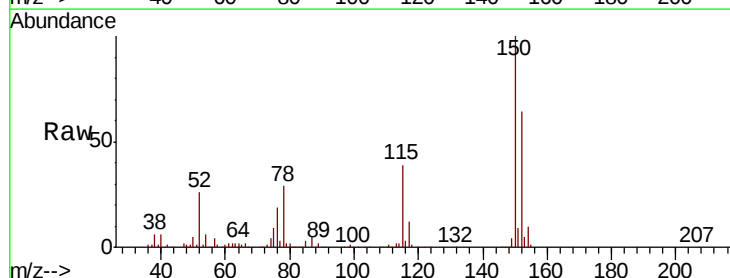
Tgt Ion:152 Resp: 207796

Ion Ratio Lower Upper

152 100

115 61.4 30.0 90.0

150 158.8 0.0 348.2

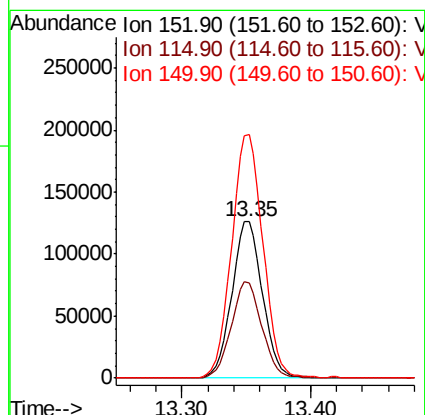
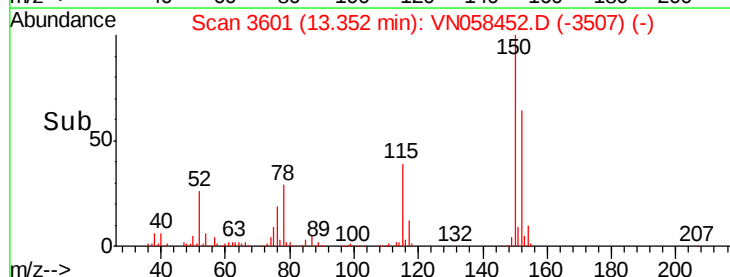


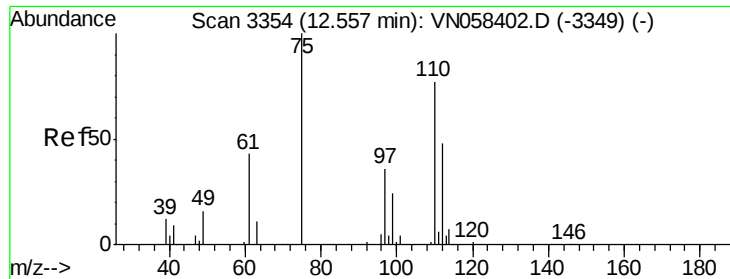
Abundance

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: 36.521 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampled :

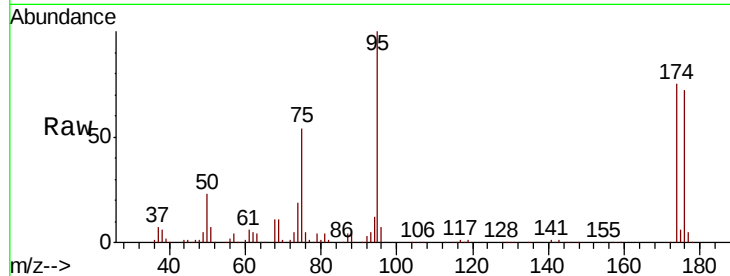
VN1001MBL01

Tot Ion: 75 Resp: 138612

Ion Ratio Lower Upper

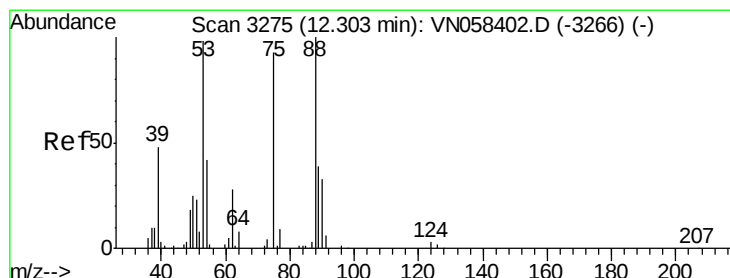
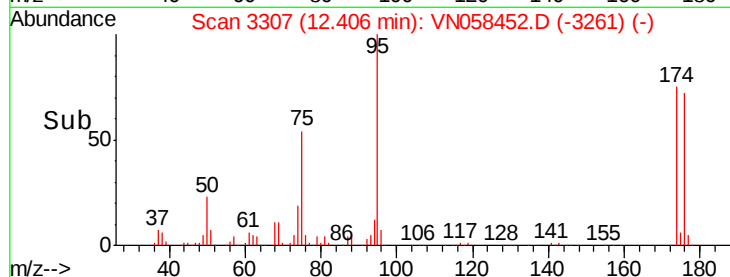
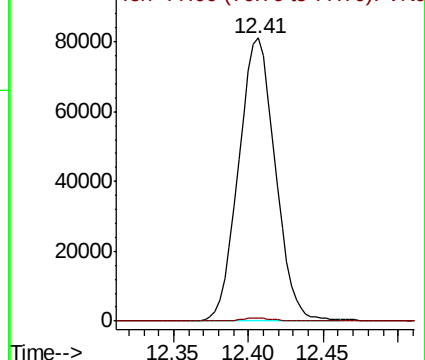
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 110.919 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

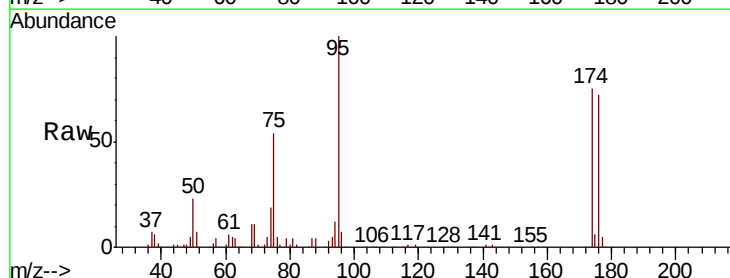
Tgt Ion: 75 Resp: 138612

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

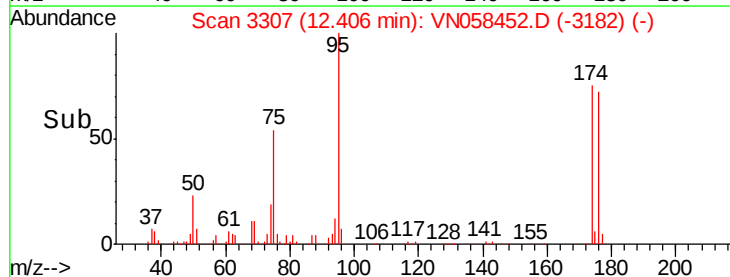
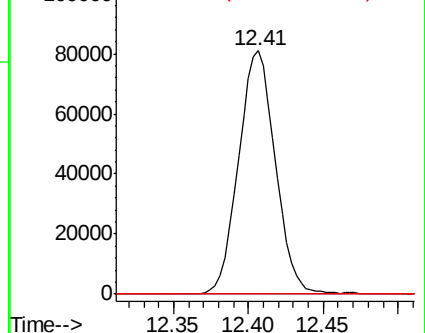
89 0.0 35.0 52.4#

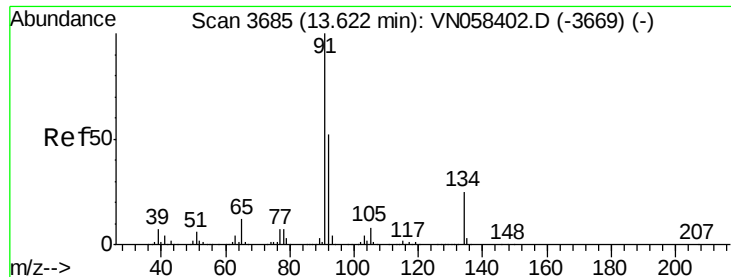


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

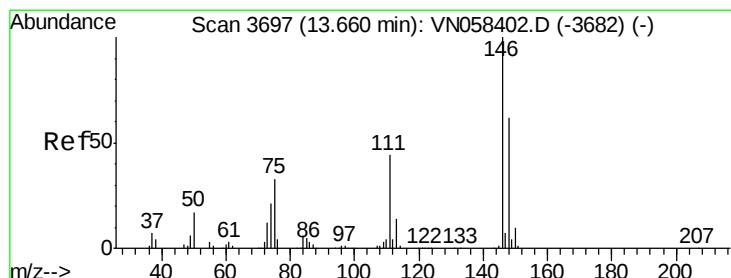
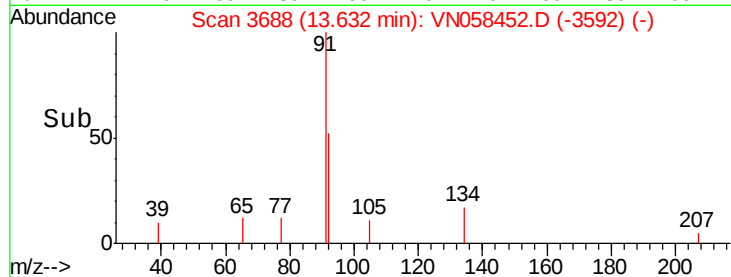
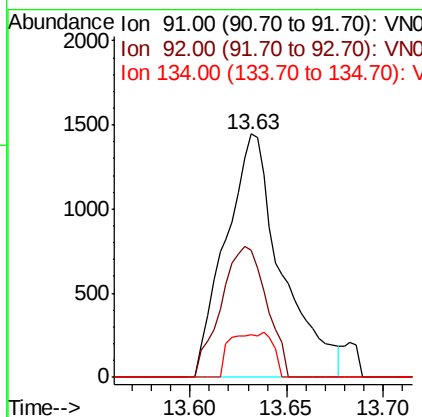
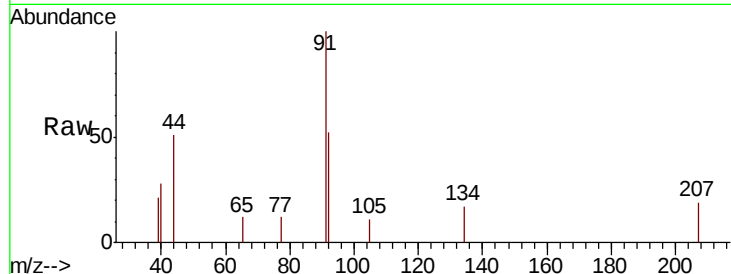




#89
n-Butylbenzene
Concen: 0.257 ug/l
RT: 13.63 min Scan# 3688
Delta R.T. 0.01 min
Lab File: VN058452.D
Acq: 1 Oct 2019 10:22

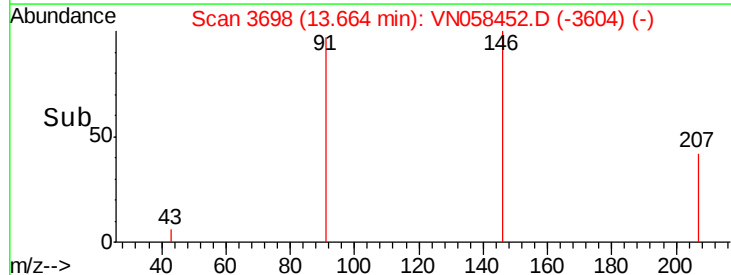
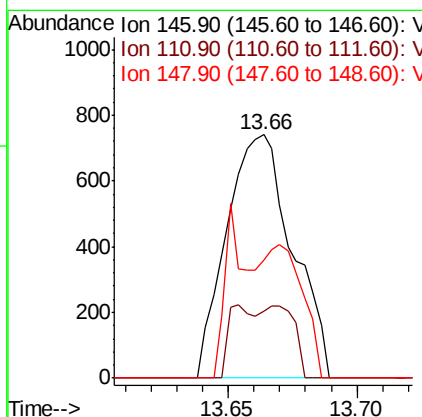
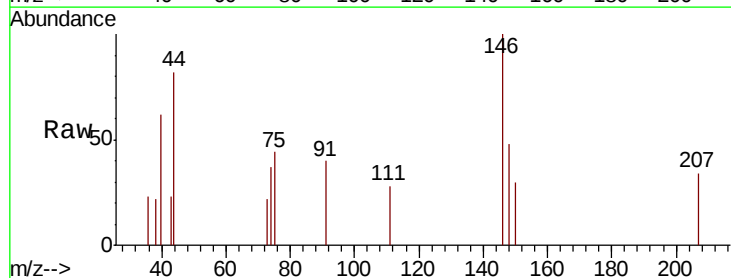
Instrument :
MSVOA_N
ClientSampleId :
VN1001MBL01

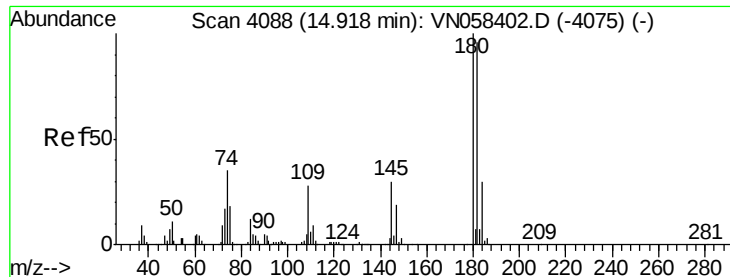
Tot Ion: 91 Resp: 2921
Ion Ratio Lower Upper
91 100
92 43.6 25.7 77.1
134 13.9 12.2 36.6



#91
1,2-Dichlorobenzene
Concen: 0.210 ug/l
RT: 13.66 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VN058452.D
Acq: 1 Oct 2019 10:22

Tgt Ion: 146 Resp: 1318
Ion Ratio Lower Upper
146 100
111 12.1 21.8 65.3#
148 25.0 31.5 94.5#

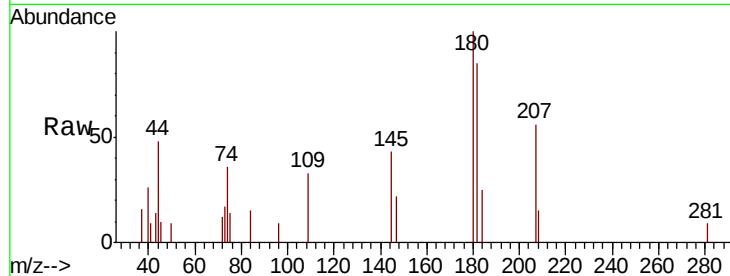




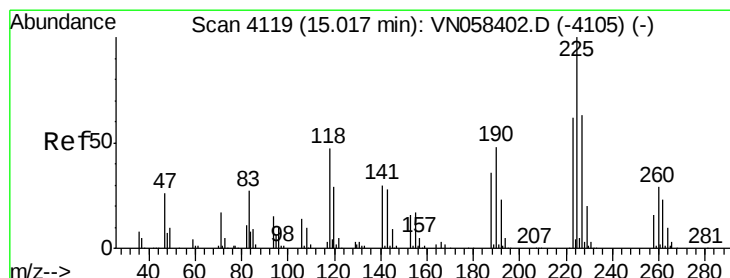
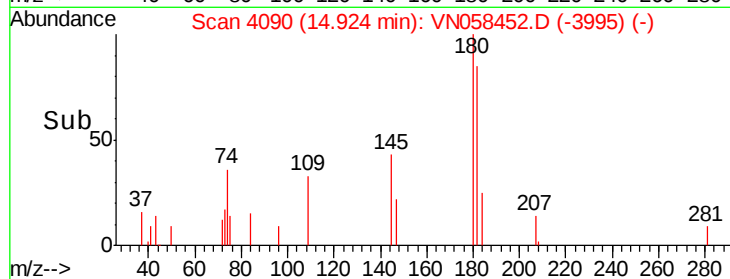
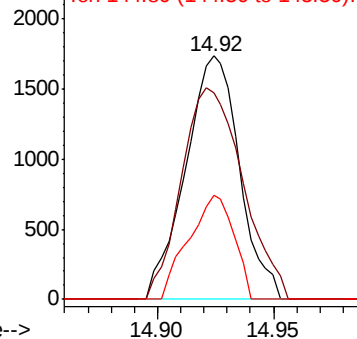
#93
 1,2,4-Trichlorobenzene
 Concen: 0.809 ug/l
 RT: 14.92 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN058452.D
 Acq: 1 Oct 2019 10:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1001MBL01

Tot Ion:180 Resp: 2803
 Ion Ratio Lower Upper
 180 100
 182 99.0 47.4 142.3
 145 36.0 15.3 45.9

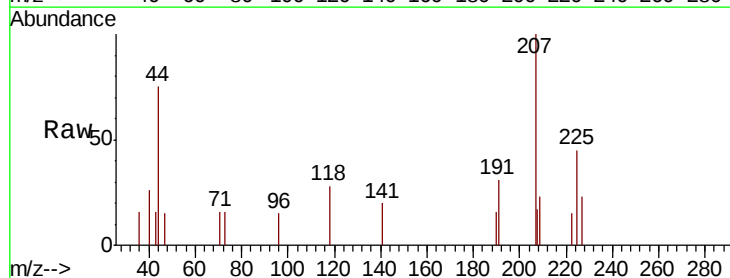


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

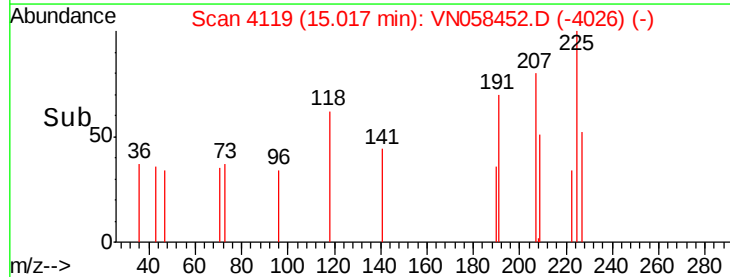
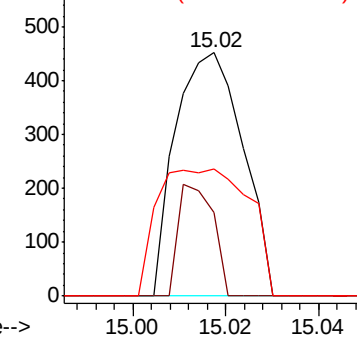


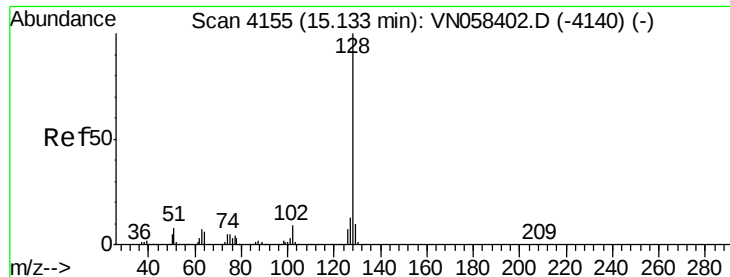
#94
 Hexachlorobutadiene
 Concen: 0.255 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058452.D
 Acq: 1 Oct 2019 10:22

Tgt Ion:225 Resp: 455
 Ion Ratio Lower Upper
 225 100
 223 23.7 31.1 93.5#
 227 70.8 31.4 94.2



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: 1.335 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN1001MBL01

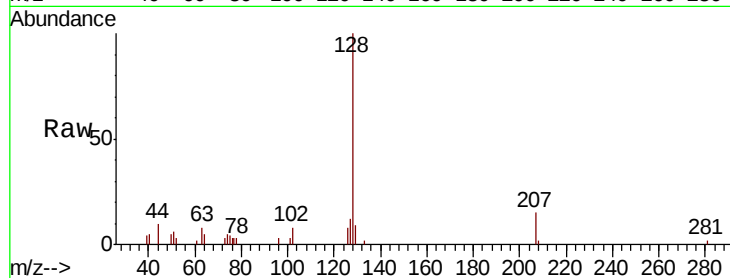
Tot Ion:128 Resp: 13840

Ion Ratio Lower Upper

128 100

127 11.4 10.2 15.4

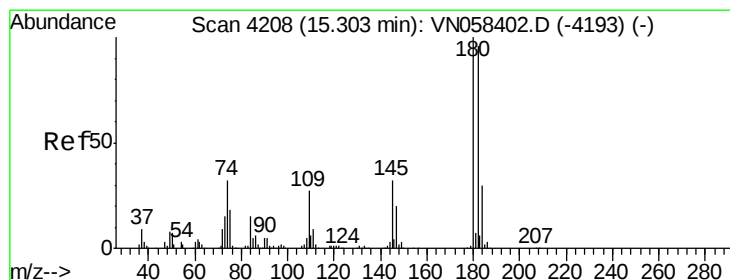
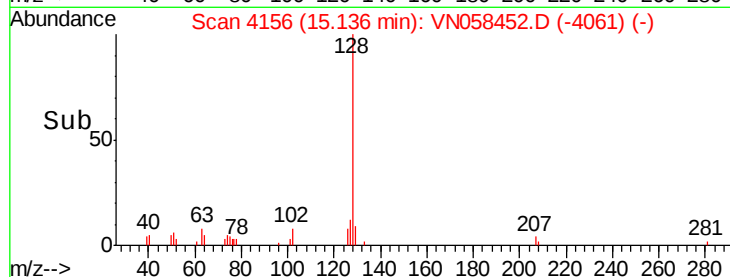
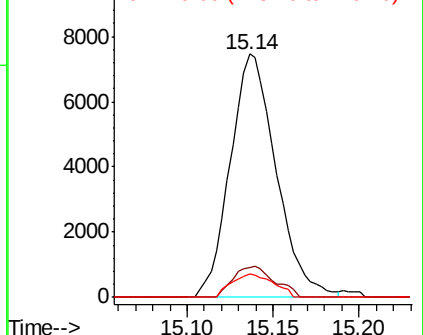
129 8.7 8.3 12.5



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: 1.030 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. 0.00 min

Lab File: VN058452.D

Acq: 1 Oct 2019 10:22

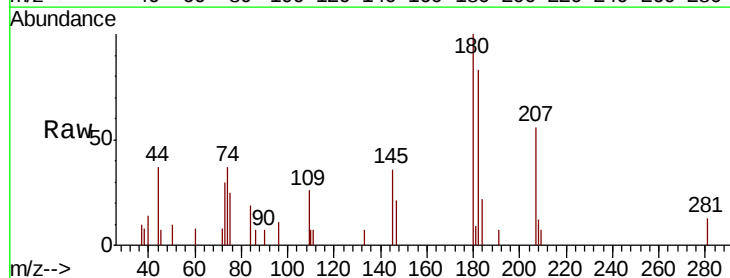
Tgt Ion:180 Resp: 3665

Ion Ratio Lower Upper

180 100

182 92.4 48.3 144.9

145 31.2 16.1 48.3



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

