

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059911.D
 Acq On : 29 Jan 2020 14:47
 Operator : JC/MD
 Sample : L1289-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:02:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	205373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	312010	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	282989	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	119915	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	108588	47.61	ug/l	0.00
Spiked Amount						
			Recovery	=	95.22%	
35) Dibromofluoromethane	7.57	113	95191	51.16	ug/l	0.00
Spiked Amount						
			Recovery	=	102.32%	
50) Toluene-d8	10.08	98	369852	51.30	ug/l	0.00
Spiked Amount						
			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	12.40	95	125512	48.29	ug/l	0.00
Spiked Amount						
			Recovery	=	96.58%	

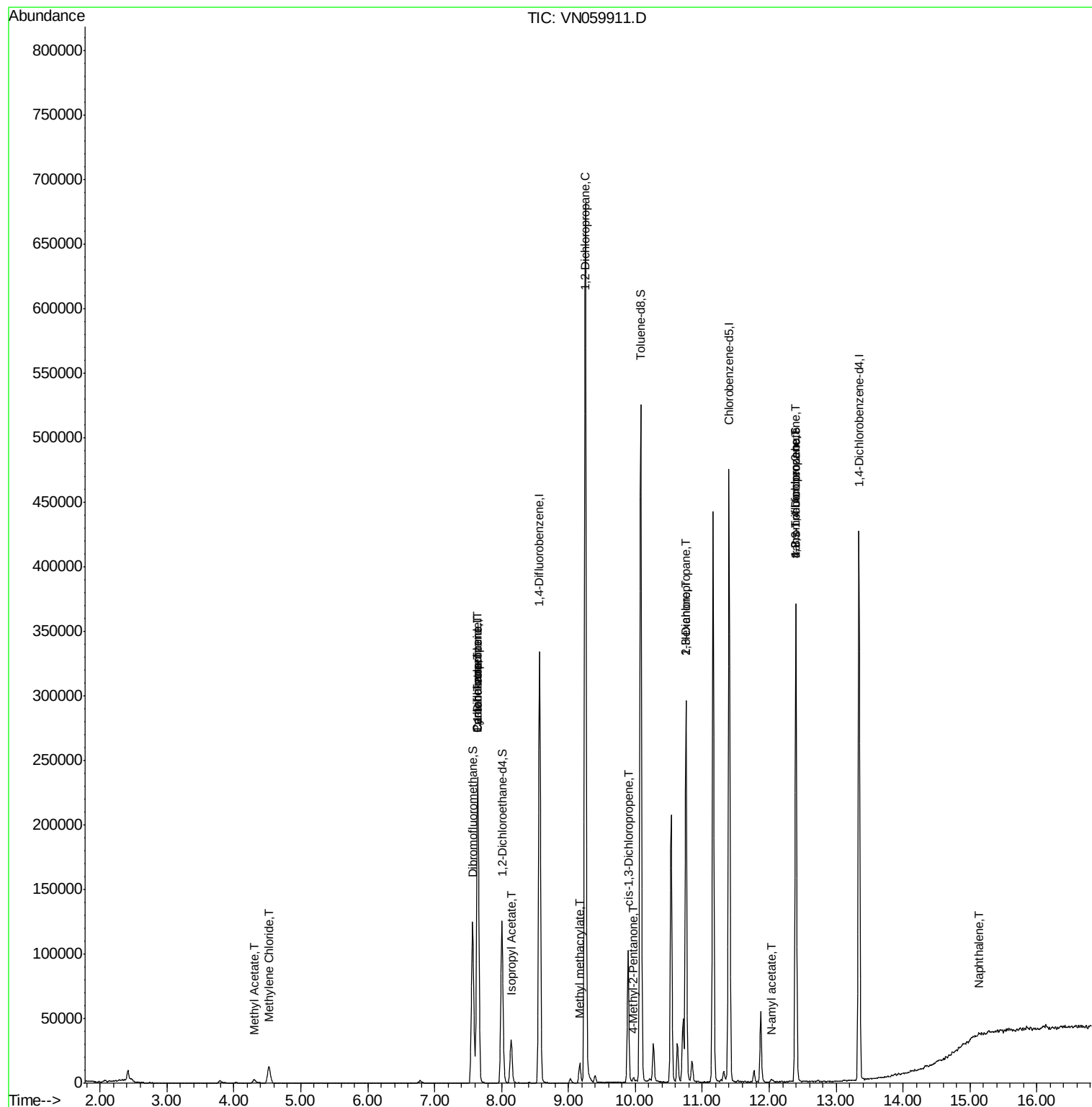
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	3479	Below Cal		98
18) Methyl Acetate	4.31	43	4954	1.860	ug/l	97
20) Methylene Chloride	4.52	84	10446	3.869	ug/l #	88
31) Cyclohexane	7.64	56	3781	1.120	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13723	5.051	ug/l #	50
38) Carbon Tetrachloride	7.65	117	18739	6.340	ug/l #	15
43) Isopropyl Acetate	8.14	43	40255	9.184	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	843	0.420	ug/l #	44
48) Methyl methacrylate	9.17	41	1918	0.978	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	2349	0.927	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	19465	5.813	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3222	1.001	ug/l #	42
59) 2-Hexanone	10.75	43	42092	22.549	ug/l #	54
74) N-amyl acetate	12.03	43	2065	0.605	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63255	31.345	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63255	67.313	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.36	75	66	Below Cal	#	6
95) Naphthalene	15.13	128	1723	0.264	ug/l #	69

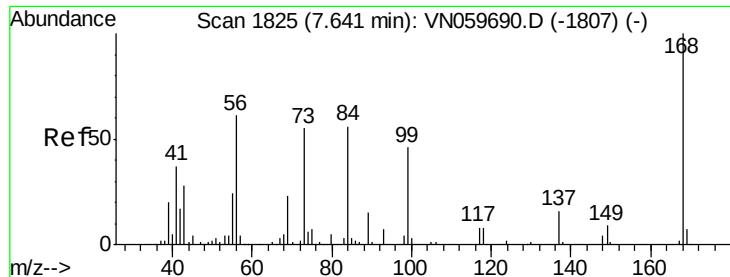
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Instrument :

MSVOA_N

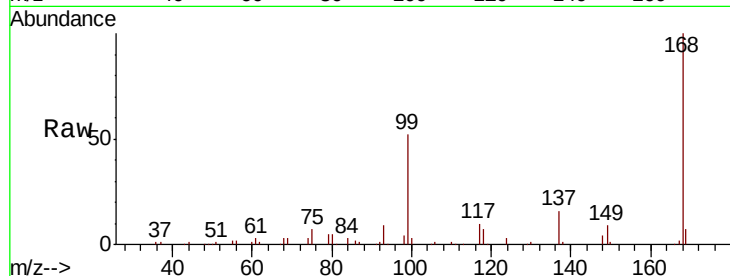
ClientSampleId :

Tot Ion:168 Resp: 205373

Ion Ratio Lower Upper

168 100

99 52.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059911.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059911.D (-1732) (-)

7.64

80000

60000

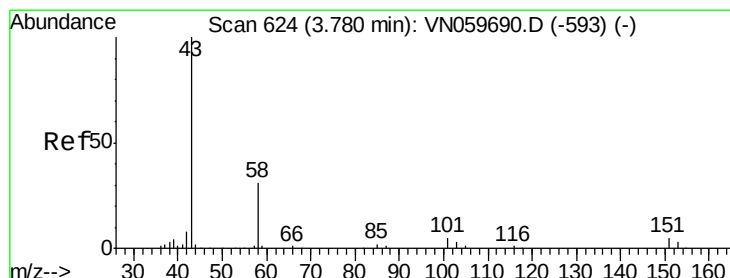
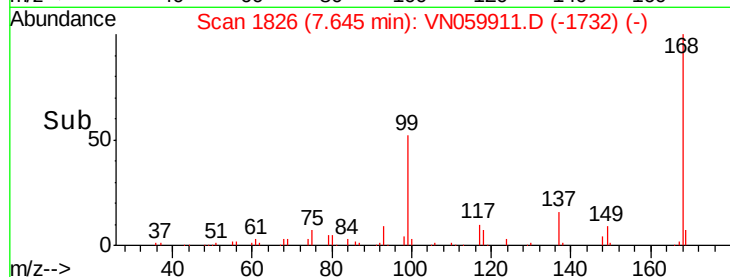
40000

20000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059911.D

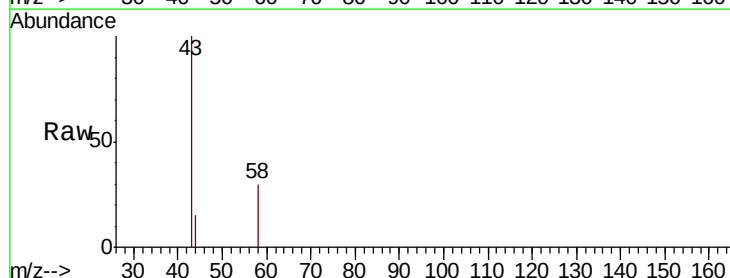
Acq: 29 Jan 2020 14:47

Tgt Ion: 43 Resp: 3479

Ion Ratio Lower Upper

43 100

58 30.3 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059911.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059911.D (-530) (-)

3.80

1500

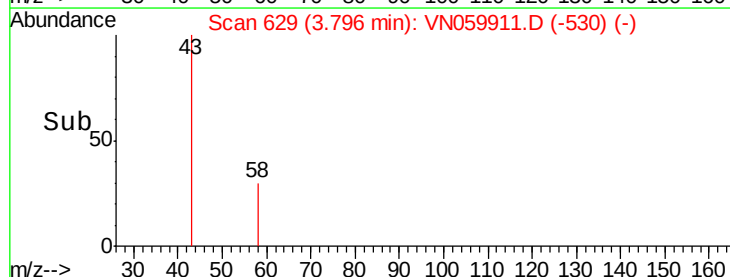
1000

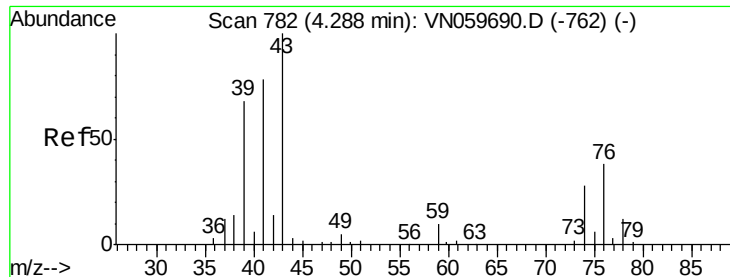
500

0

3.75 3.80 3.85

Time-->

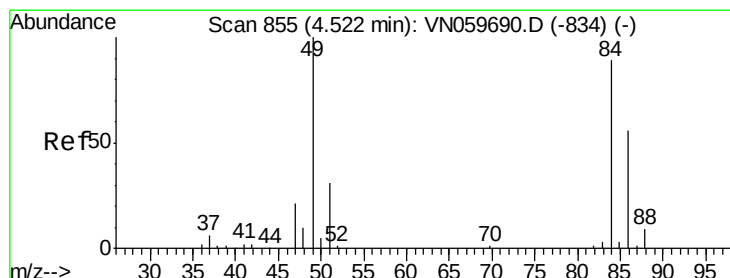
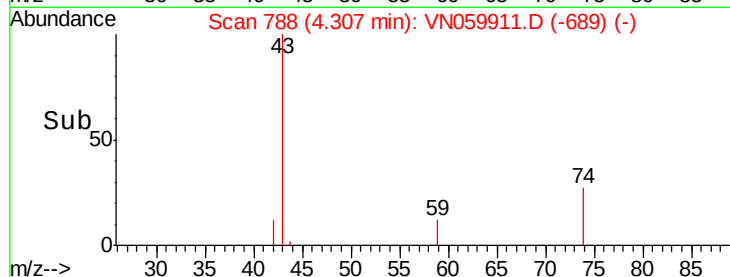
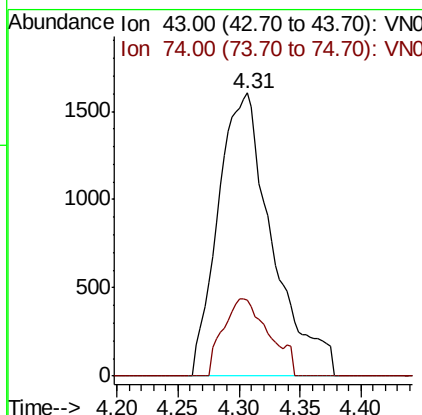
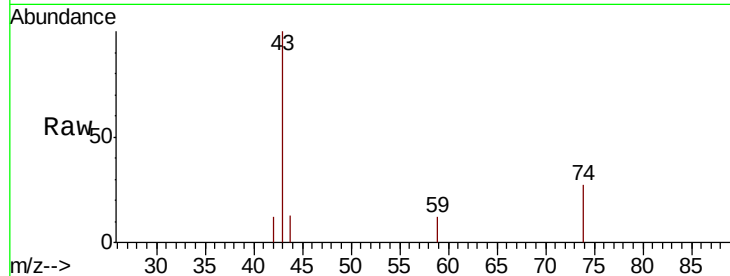




#18
Methvl Acetate
Concen: 1.860 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

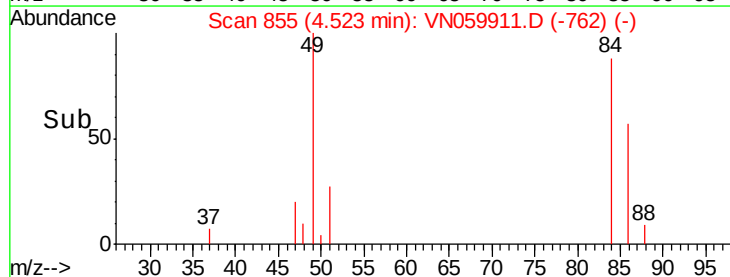
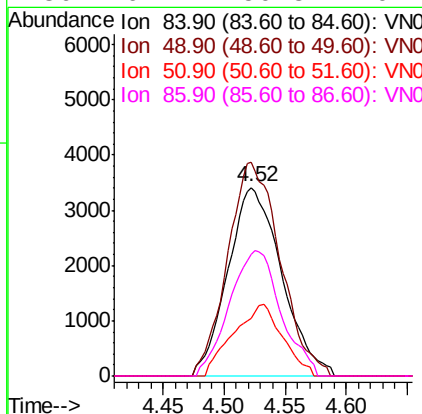
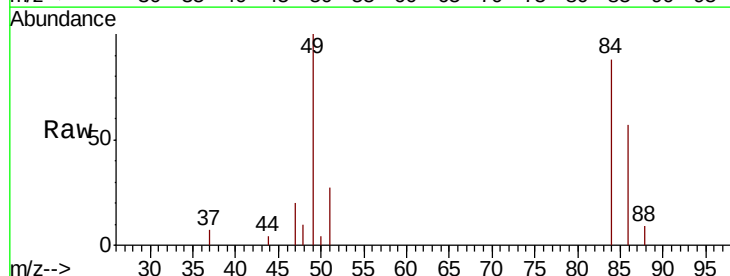
Instrument :
MSVOA_N
ClientSampleId :

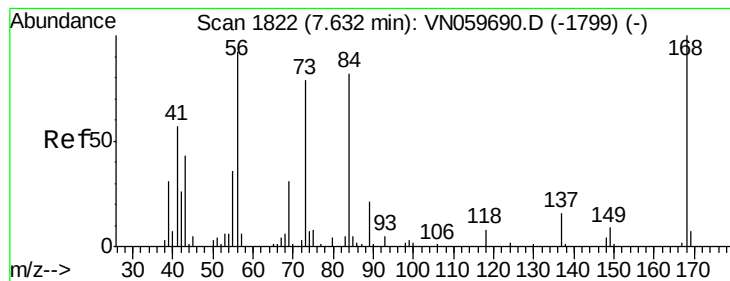
Tot Ion: 43 Resp: 4954
Ion Ratio Lower Upper
43 100
74 23.2 17.5 26.3



#20
Methylene Chloride
Concen: 3.869 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

Tgt Ion: 84 Resp: 10446
Ion Ratio Lower Upper
84 100
49 113.4 106.6 160.0
51 30.8 31.9 47.9#
86 64.7 50.8 76.2





#31

Cyclohexane

Concen: 1.120 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Instrument :

MSVOA_N

ClientSampleId :

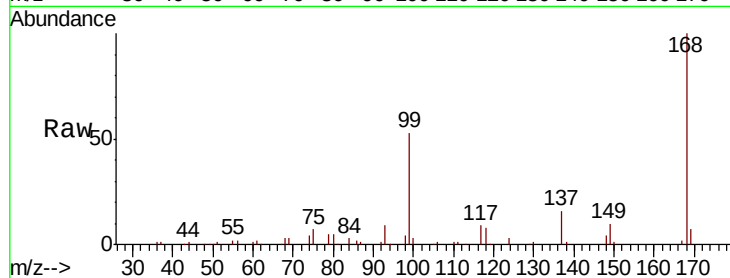
Tot Ion: 56 Resp: 3781

Ion Ratio Lower Upper

56 100

69 160.8 26.5 39.7#

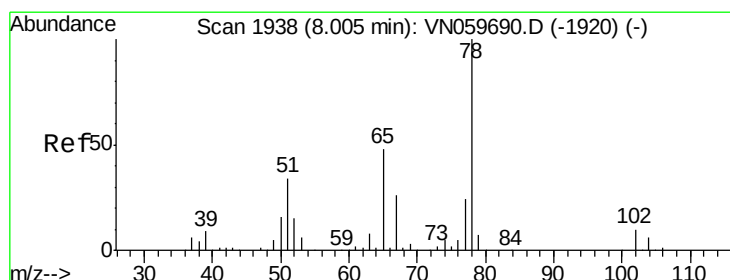
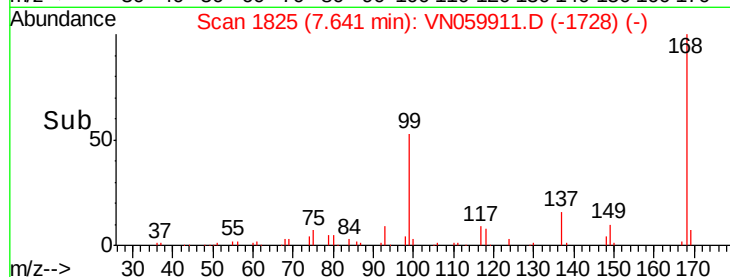
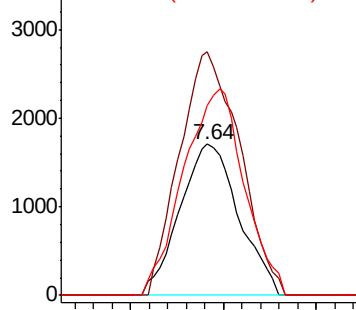
84 125.1 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059911.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059911.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059911.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.611 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059911.D

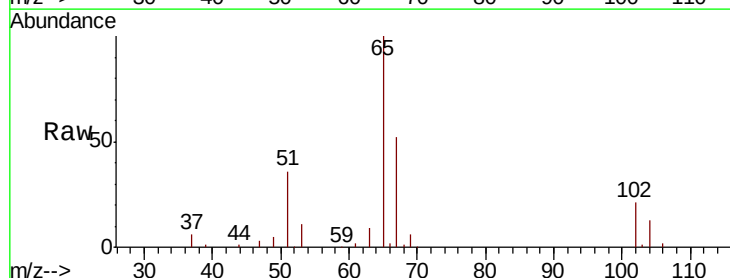
Acq: 29 Jan 2020 14:47

Tgt Ion: 65 Resp: 108588

Ion Ratio Lower Upper

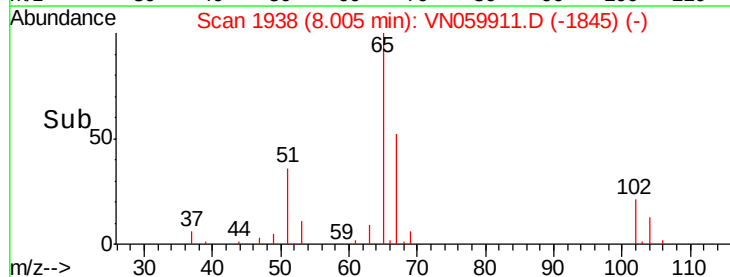
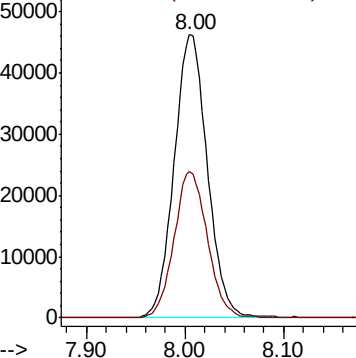
65 100

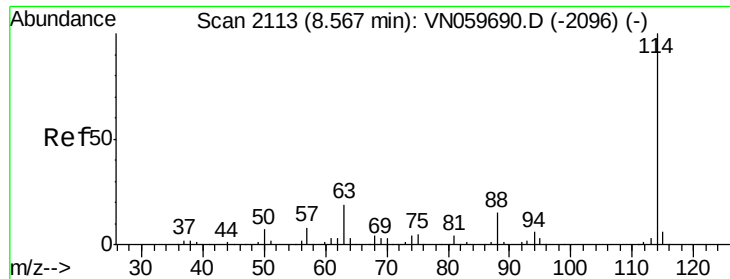
67 51.8 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059911.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059911.D (-1845) (-)

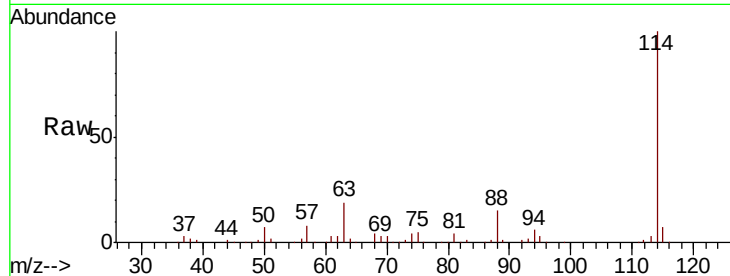




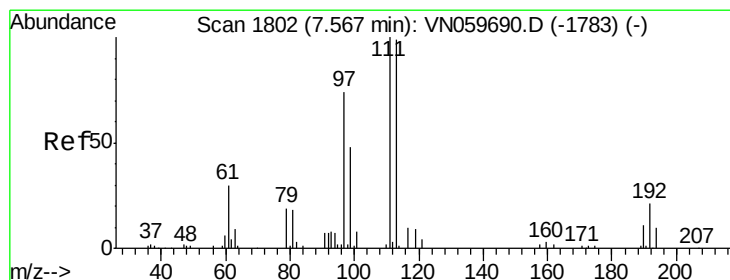
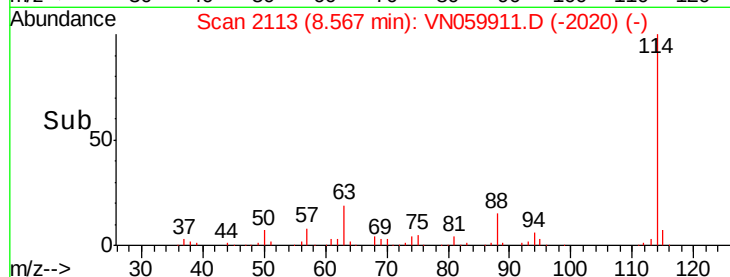
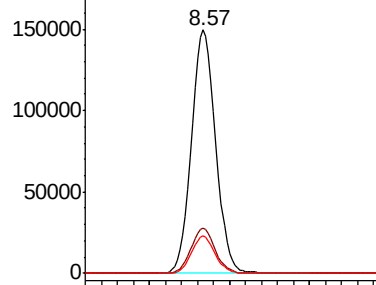
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 312010
Ion Ratio Lower Upper
114 100
63 18.7 0.0 43.6
88 15.3 0.0 31.4

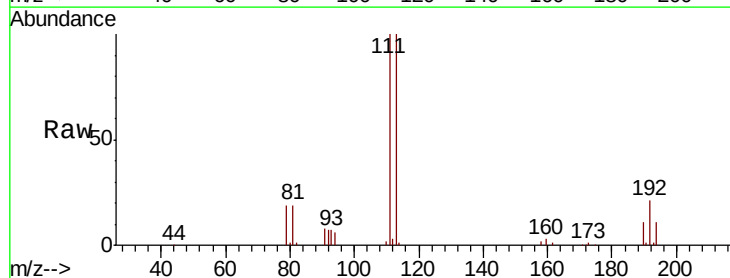


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

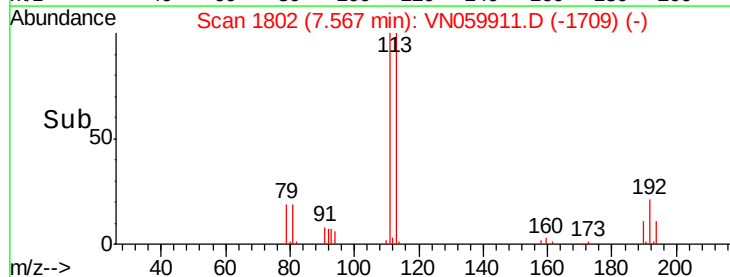
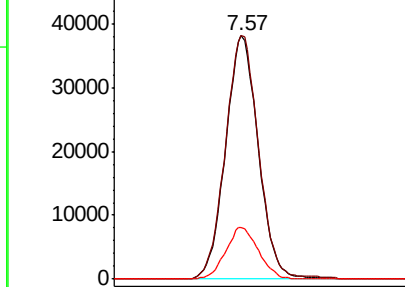


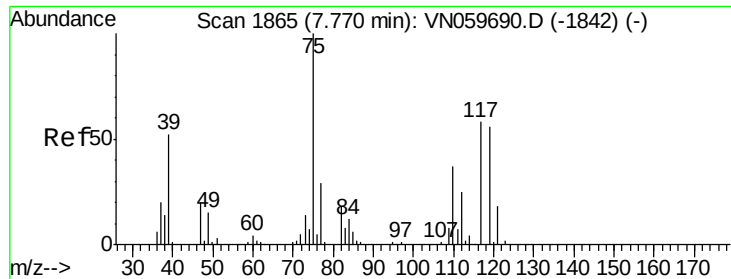
#35
Dibromofluoromethane
Concen: 51.160 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

Tgt Ion:113 Resp: 95191
Ion Ratio Lower Upper
113 100
111 101.9 83.5 125.3
192 21.2 15.4 23.2



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

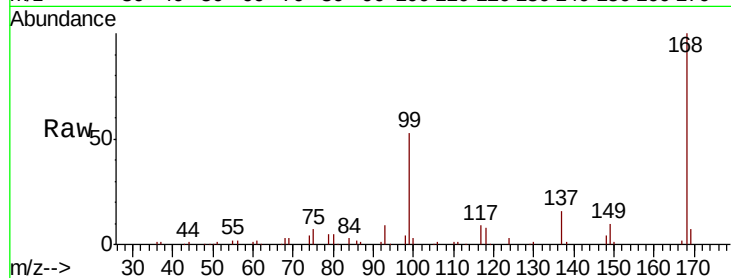




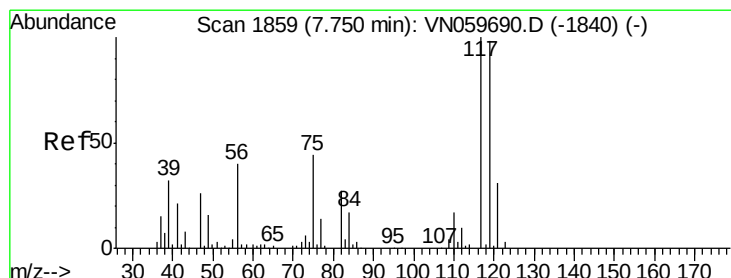
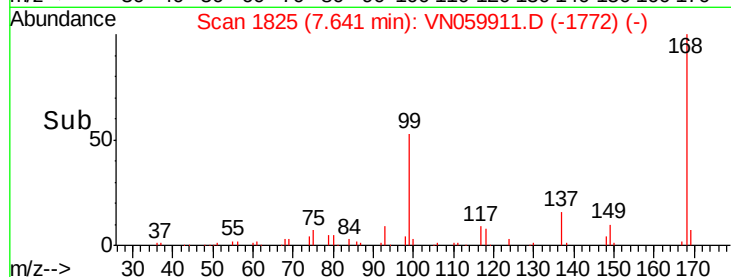
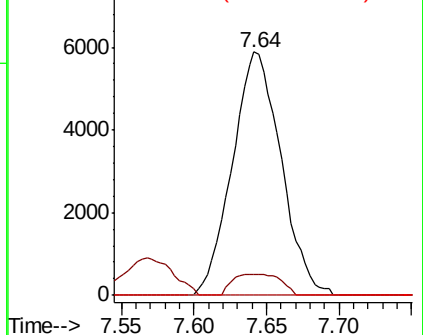
#36
 1,1-Dichloropropene
 Concen: 5.051 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059911.D
 Acq: 29 Jan 2020 14:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.6	49.7#
77	0.0	25.1	37.7#

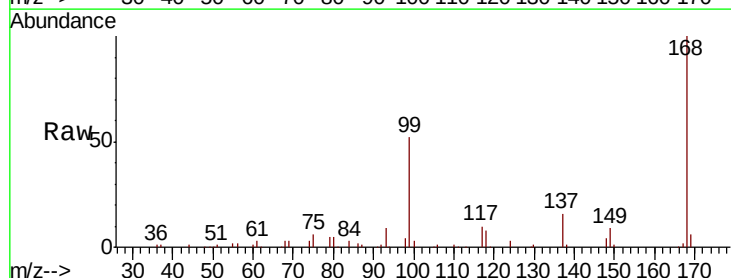


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

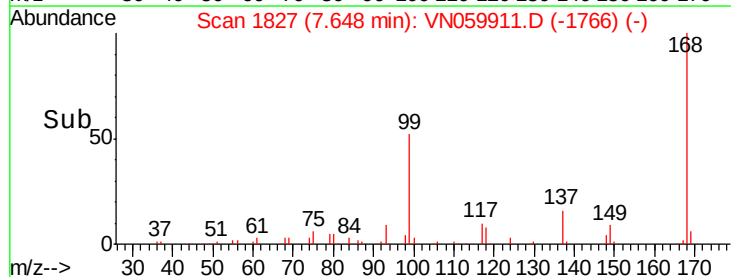
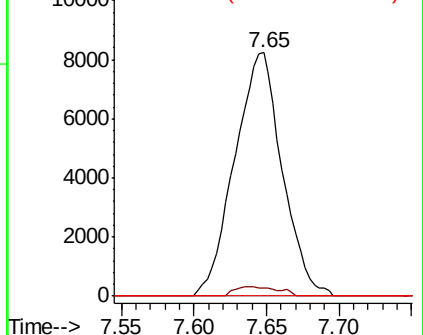


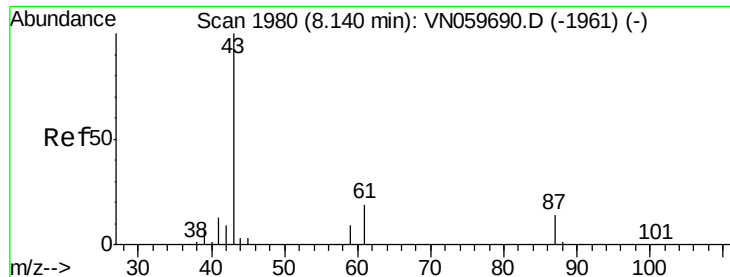
#38
 Carbon Tetrachloride
 Concen: 6.340 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.10 min
 Lab File: VN059911.D
 Acq: 29 Jan 2020 14:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.5	76.5	114.7#
121	0.0	25.1	37.7#



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





#43

Isopropyl Acetate

Concen: 9.184 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Instrument :

MSVOA_N

ClientSampleId :

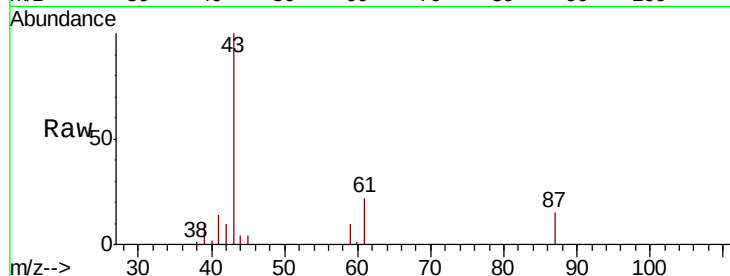
Tot Ion: 43 Resp: 40255

Ion Ratio Lower Upper

43 100

61 20.6 20.2 30.2

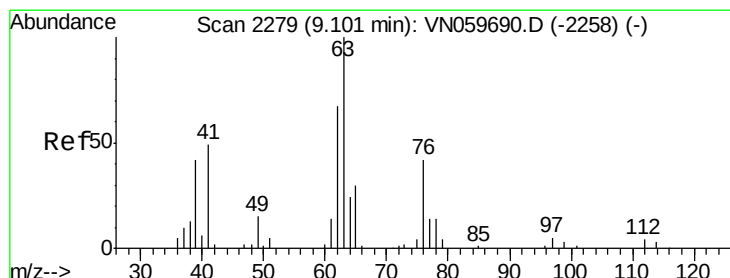
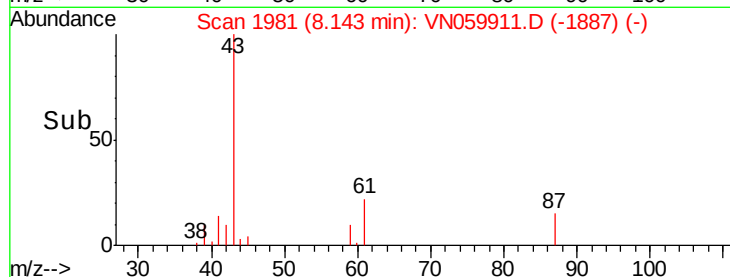
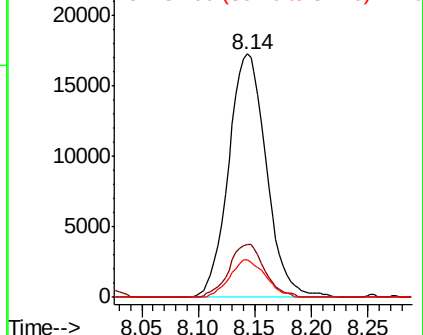
87 14.5 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059911.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN059911.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN059911.D (-1987) (-)



#45

1,2-Dichloropropane

Concen: 0.420 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059911.D

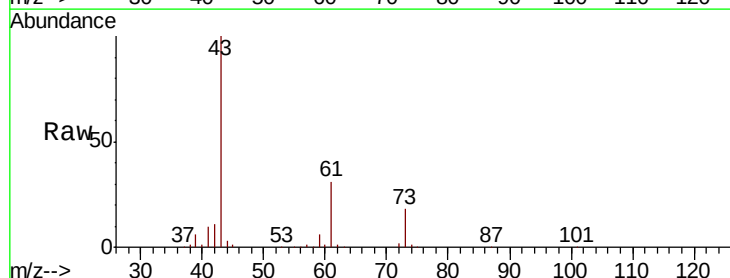
Acq: 29 Jan 2020 14:47

Tgt Ion: 63 Resp: 843

Ion Ratio Lower Upper

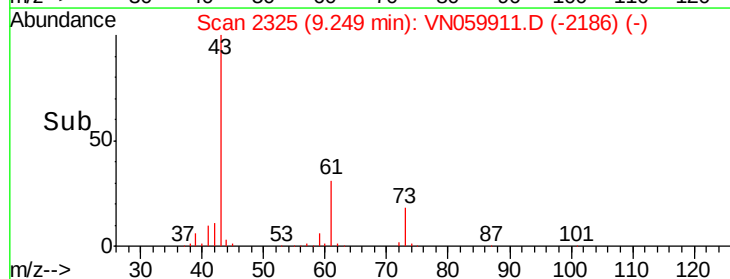
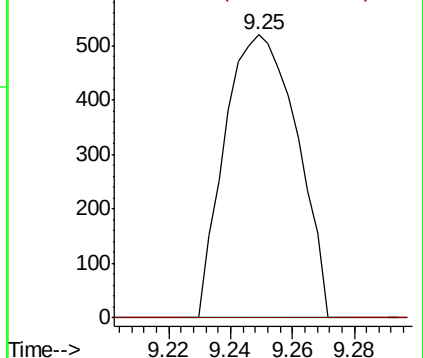
63 100

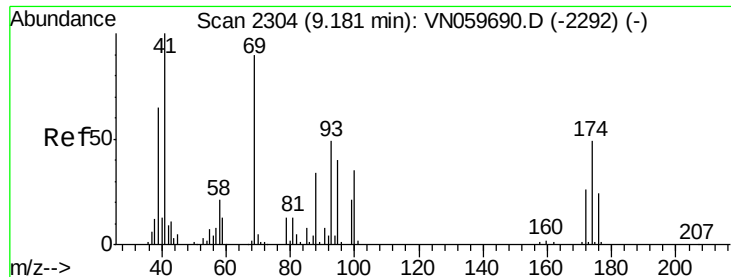
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059911.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059911.D (-2186) (-)

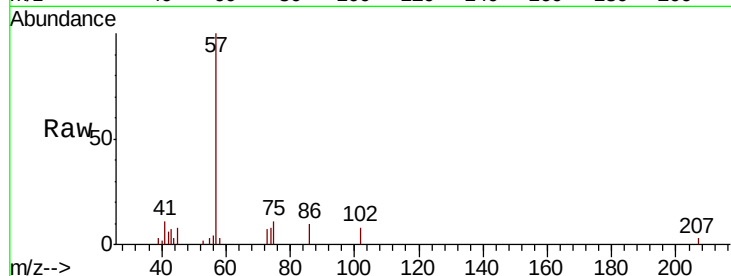




#48
Methvl methacrylate
Concen: 0.978 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	64.4	96.6#
39	0.0	51.3	76.9#

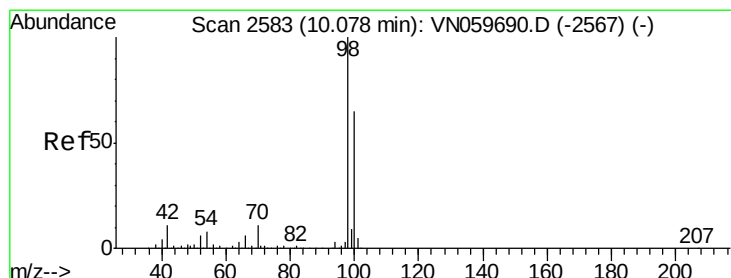
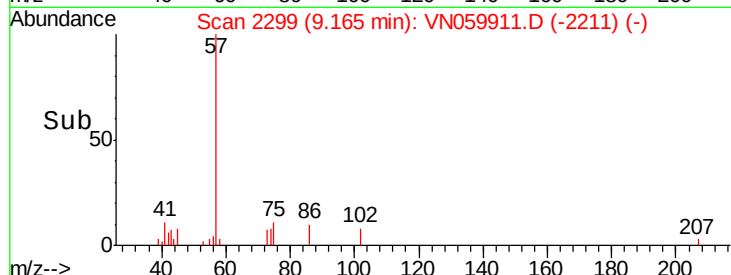
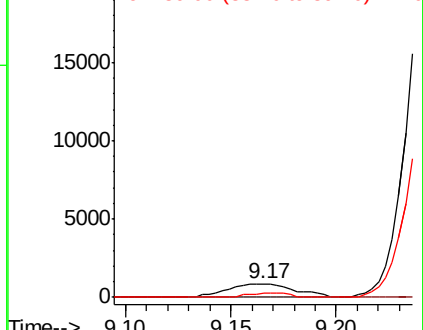


Abundance

Ion 41.00 (40.70 to 41.70): VN0

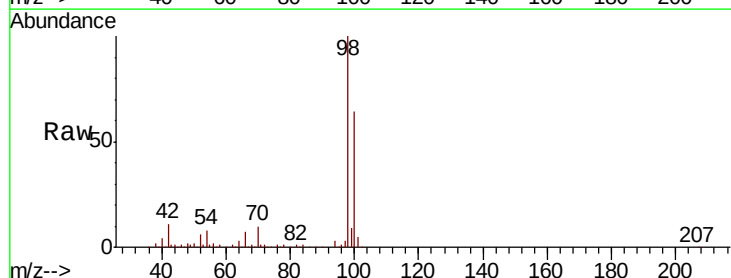
Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50
Toluene-d8
Concen: 51.303 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

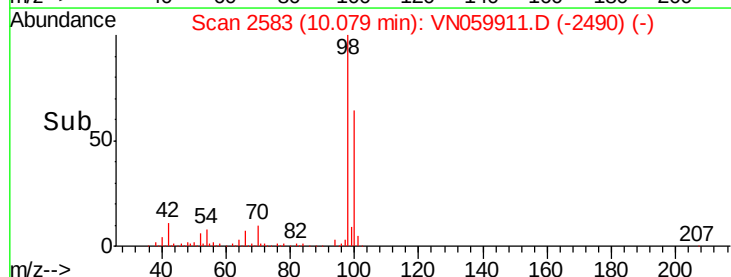
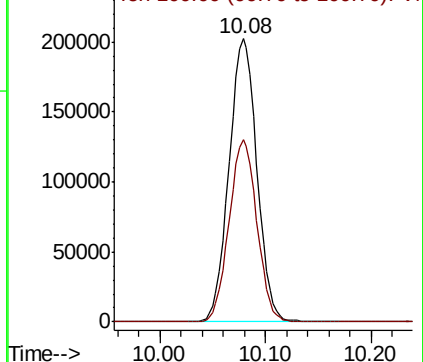
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.2	76.8

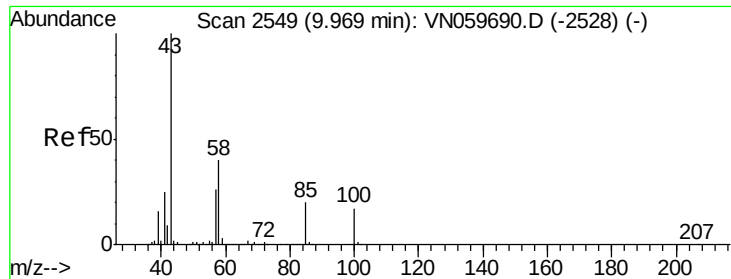


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

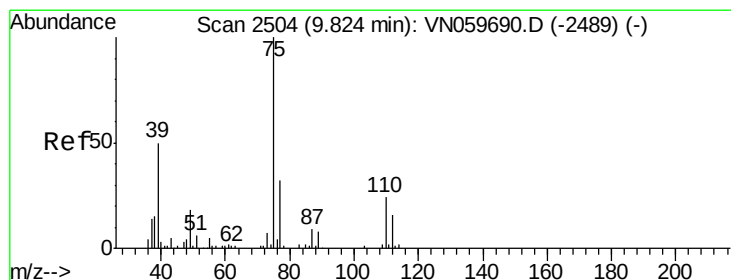
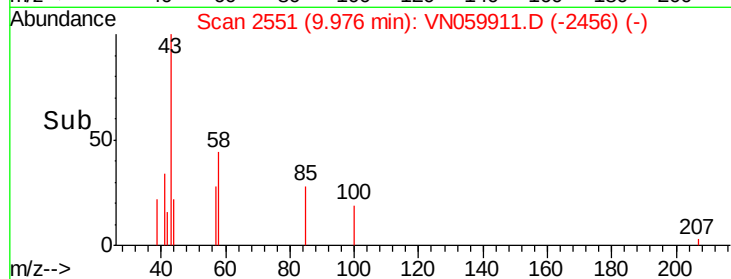
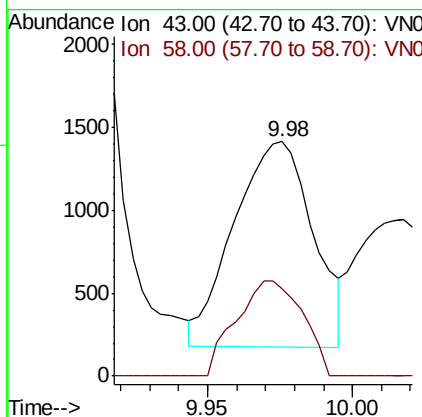
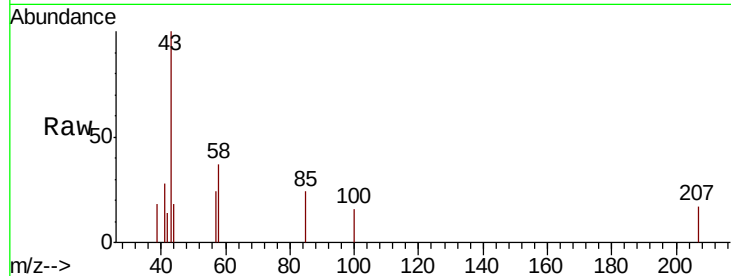




#51
 4-Methyl-2-Pentanone
 Concen: 0.927 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.01 min
 Lab File: VN059911.D
 Acq: 29 Jan 2020 14:47

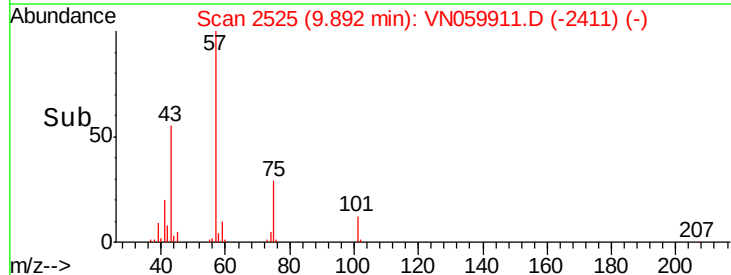
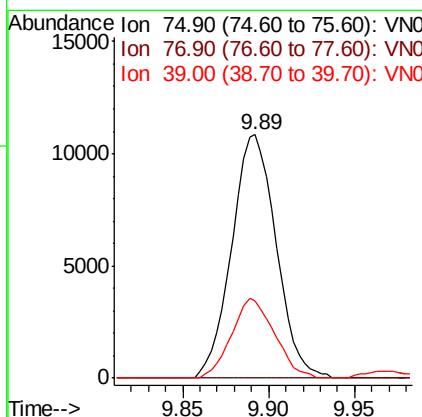
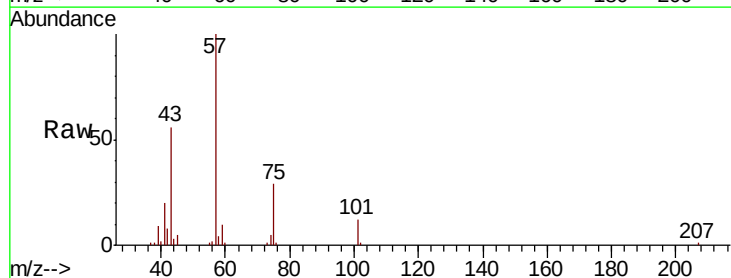
Instrument :
 MSVOA_N
 ClientSampleId :

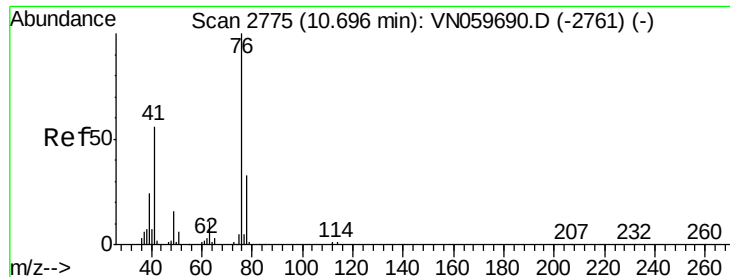
Tot Ion: 43 Resp: 2349
 Ion Ratio Lower Upper
 43 100
 58 39.0 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.813 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059911.D
 Acq: 29 Jan 2020 14:47

Tgt Ion: 75 Resp: 19465
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 31.9 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 1.001 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Instrument :

MSVOA_N

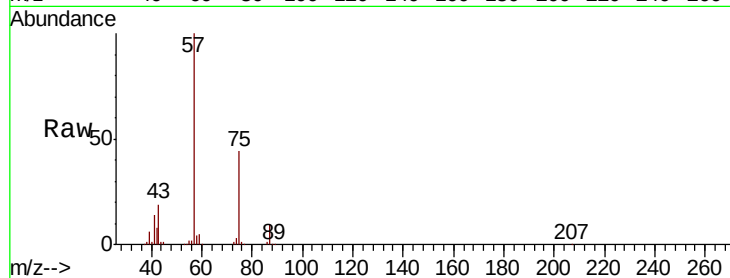
ClientSampleId :

Tot Ion: 76 Resp: 3222

Ion Ratio Lower Upper

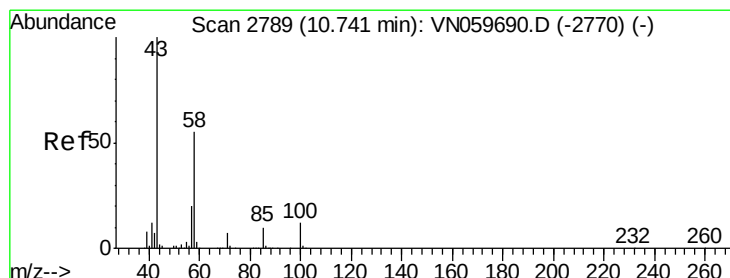
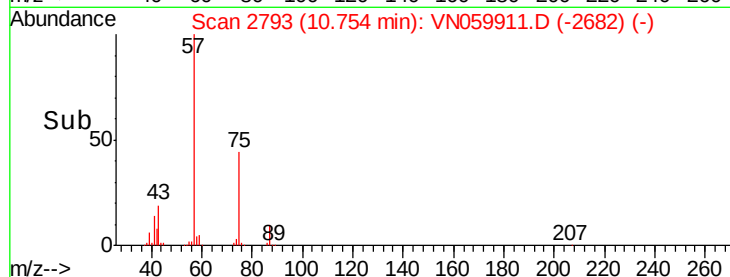
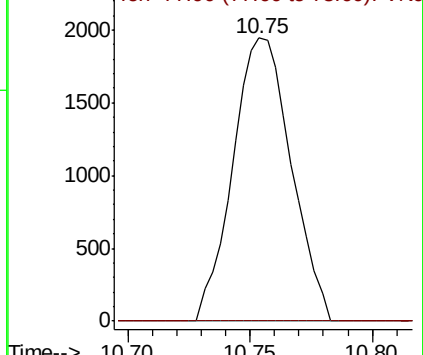
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 22.549 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059911.D

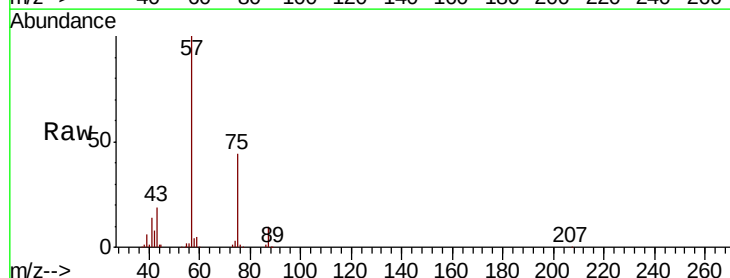
Acq: 29 Jan 2020 14:47

Tgt Ion: 43 Resp: 42092

Ion Ratio Lower Upper

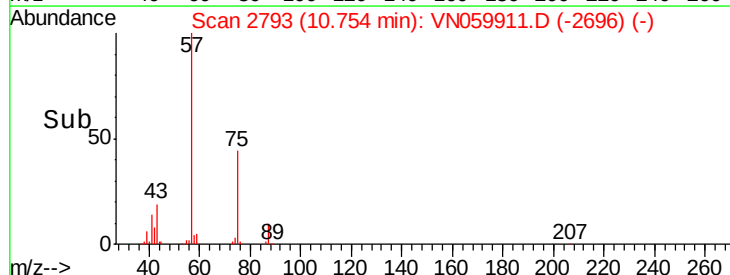
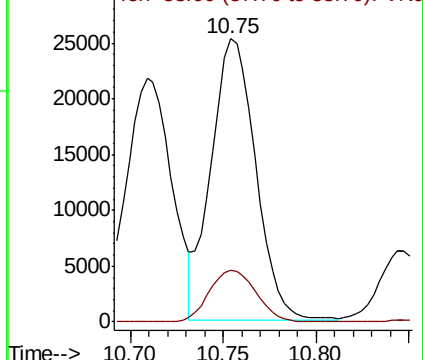
43 100

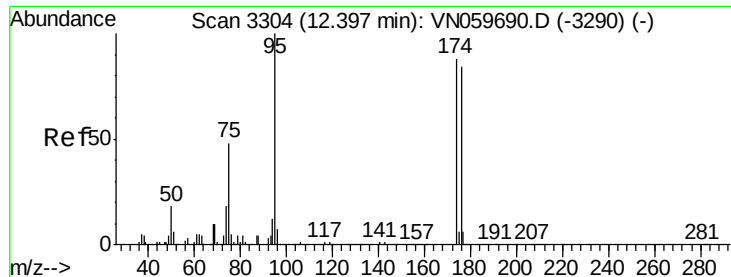
58 19.2 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

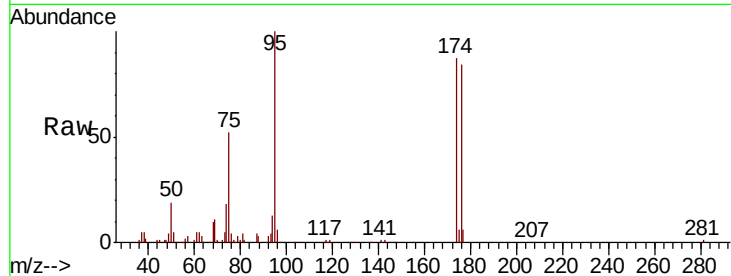




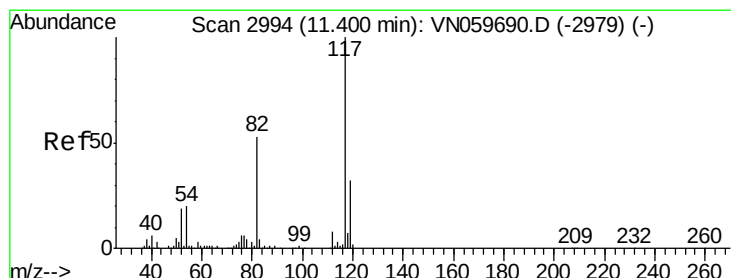
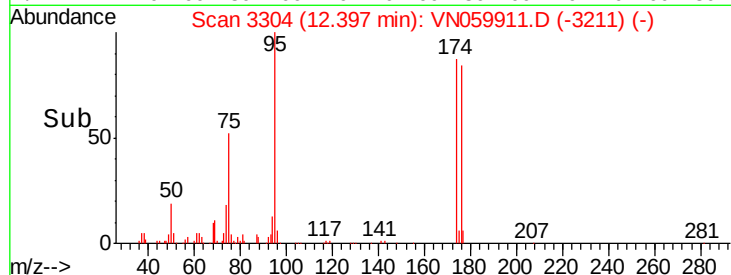
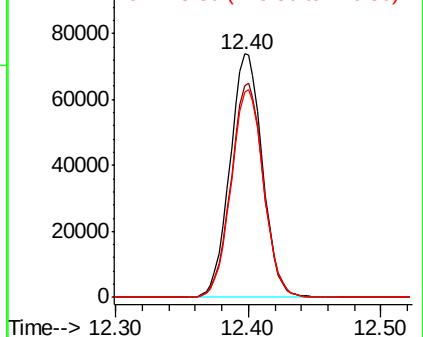
#62
4-Bromofluorobenzene
Concen: 48.295 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 125512
Ion Ratio Lower Upper
95 100
174 87.6 0.0 151.4
176 85.1 0.0 146.0

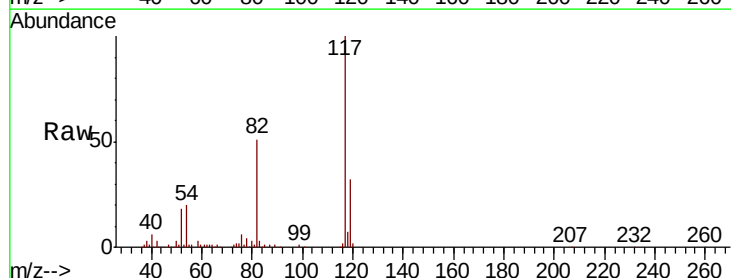


Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)

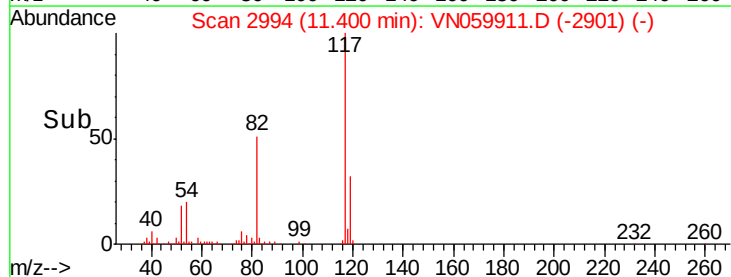
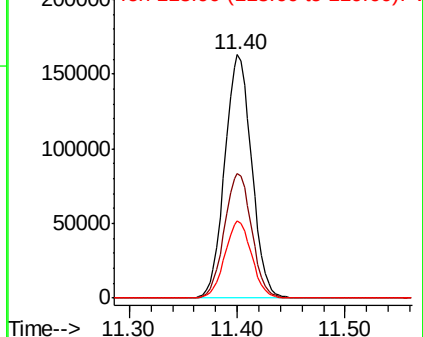


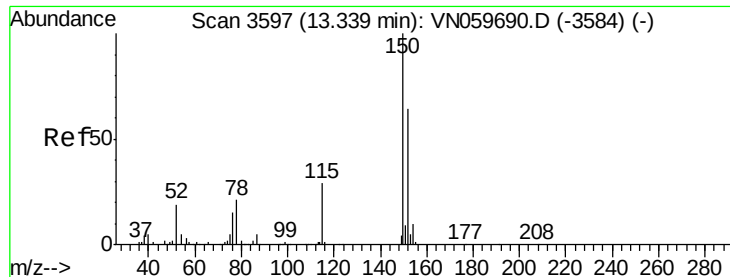
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059911.D
Acq: 29 Jan 2020 14:47

Tgt Ion: 117 Resp: 282989
Ion Ratio Lower Upper
117 100
82 51.4 45.9 68.9
119 31.7 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Instrument :

MSVOA_N

ClientSampleId :

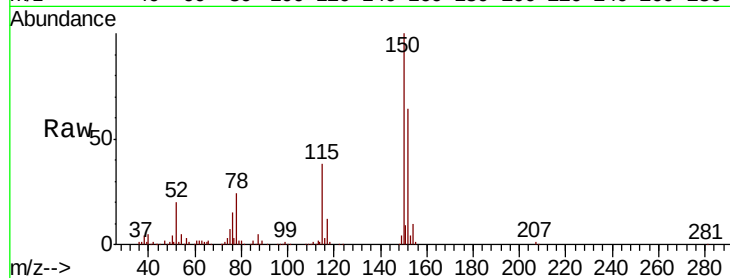
Tot Ion:152 Resp: 119915

Ion Ratio Lower Upper

152 100

115 58.4 30.3 90.9

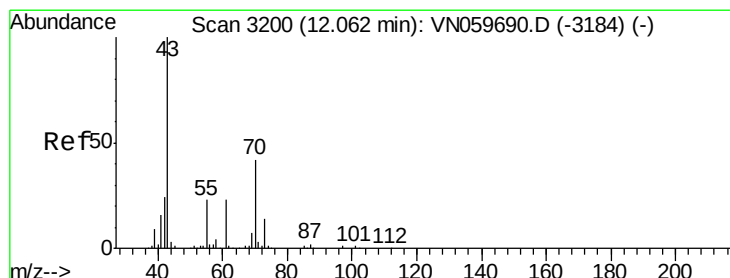
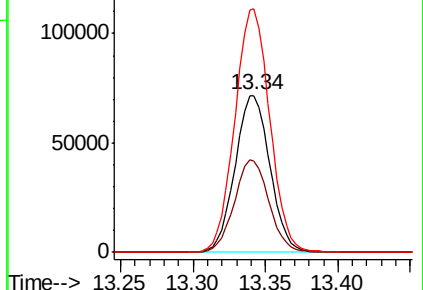
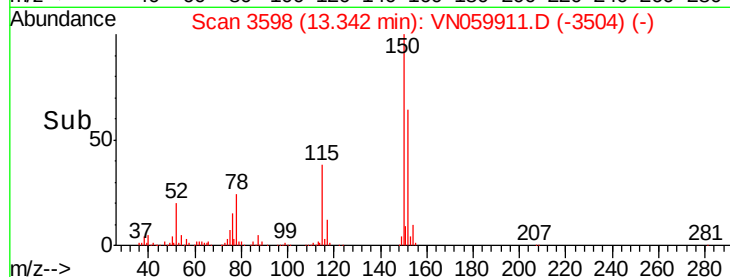
150 155.9 0.0 345.2



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



#74

N-ethyl acetate

Concen: 0.605 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Tgt Ion: 43 Resp: 2065

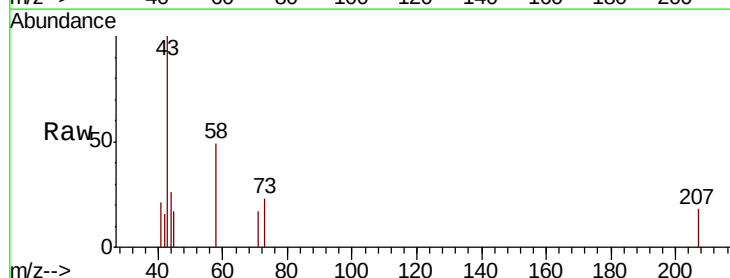
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

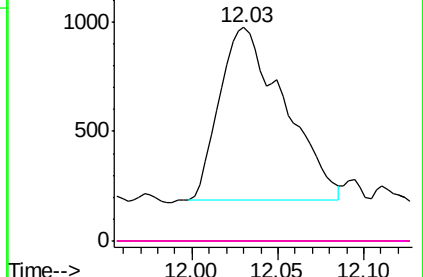
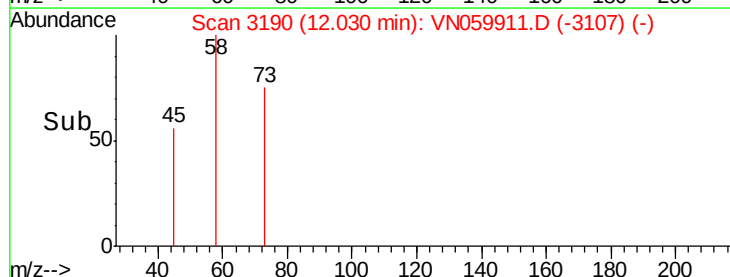


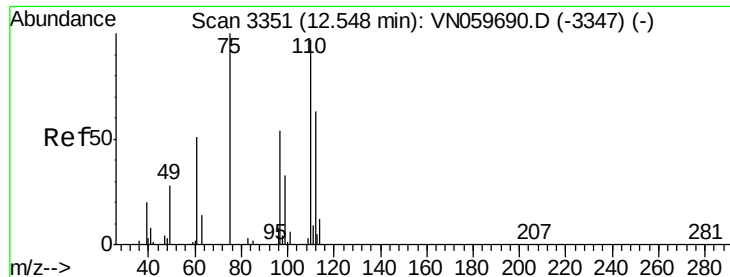
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 31.345 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Instrument :

MSVOA_N

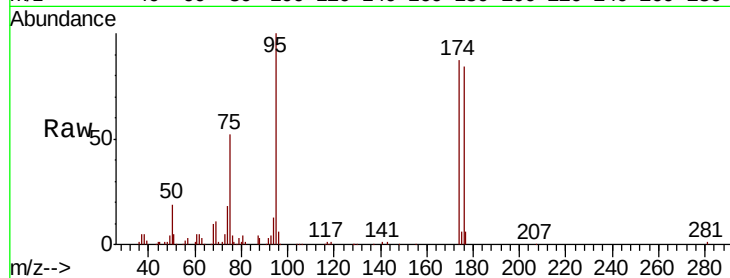
ClientSampled :

Tot Ion: 75 Resp: 63255

Ion Ratio Lower Upper

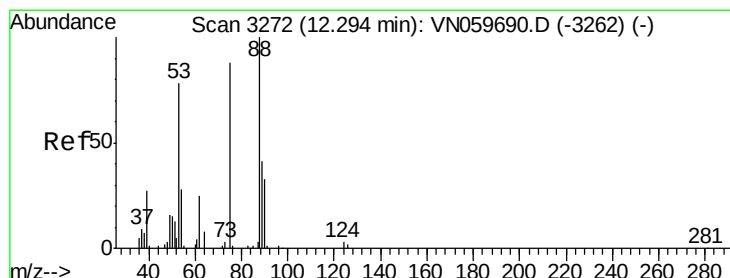
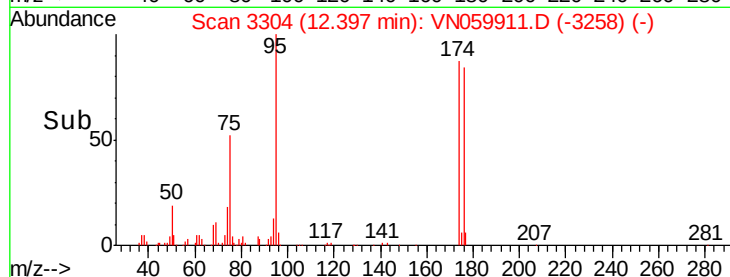
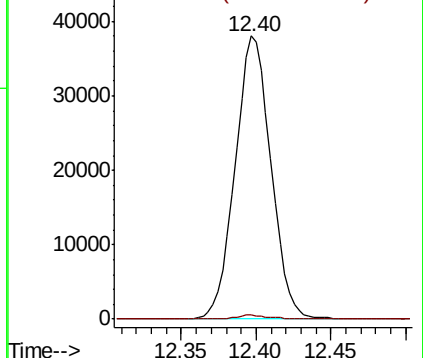
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 67.313 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

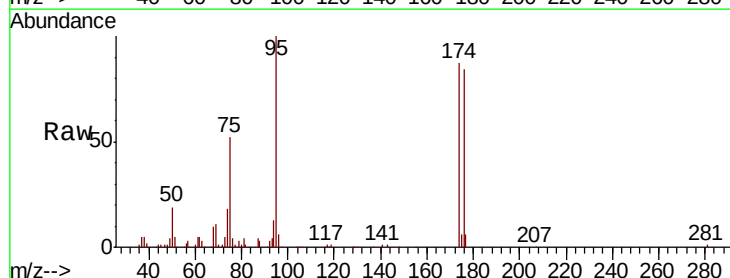
Tgt Ion: 75 Resp: 63255

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

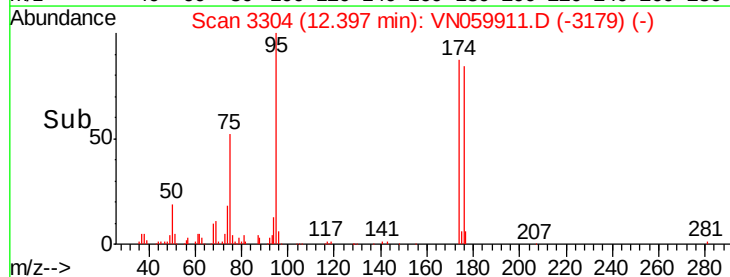
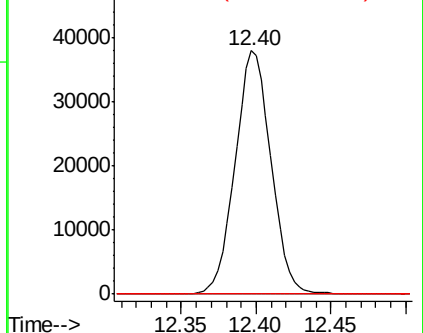
89 0.0 35.4 53.2#

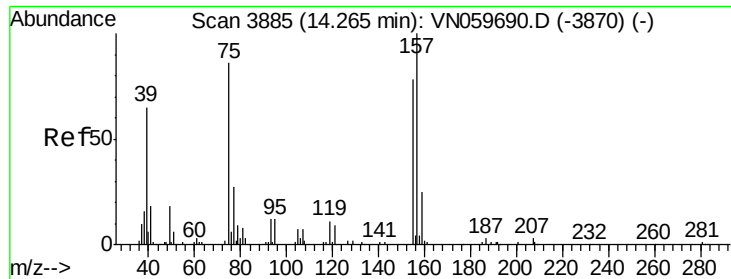


Abundance Ion 74.90 (74.60 to 75.60): VN0

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: 14.36 min Scan# 3916

Delta R.T. 0.10 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

Instrument :

MSVOA_N

ClientSampleId :

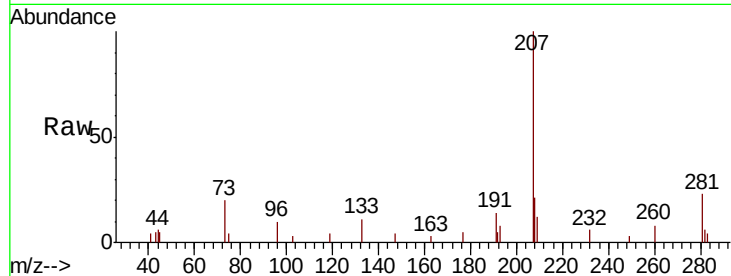
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

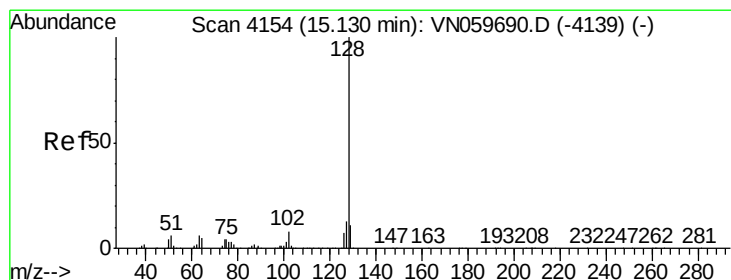
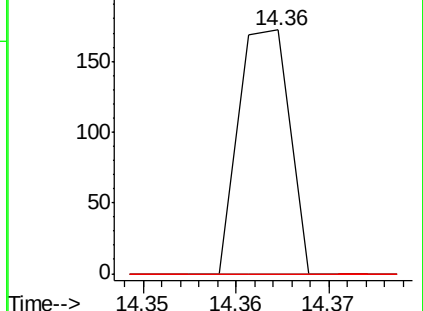
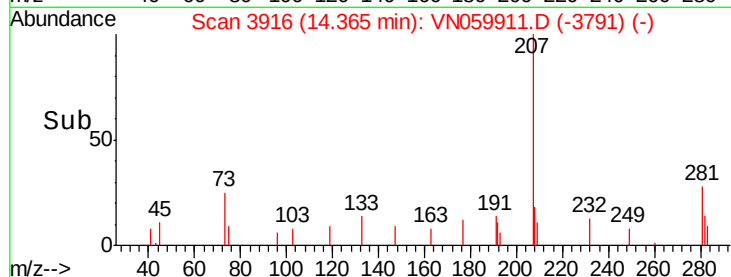
157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059911.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059911.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059911.D (-3791) (-)



#95

Naphthalene

Concen: 0.264 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059911.D

Acq: 29 Jan 2020 14:47

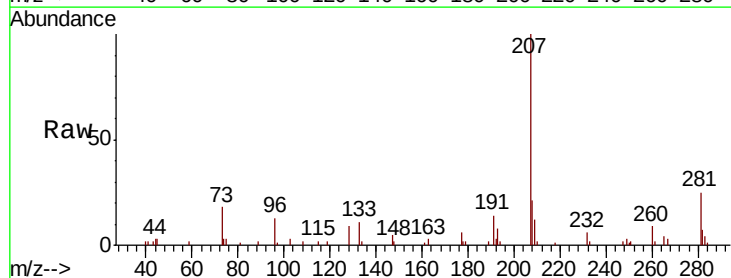
Tgt Ion: 128 Resp: 1723

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN059911.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN059911.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN059911.D (-4061) (-)

