

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059511.D
 Acq On : 6 Dec 2019 13:47
 Operator : JC/SP
 Sample : K6147-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:19:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	229069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	367755	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	334165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	123403	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	165276	58.08	ug/l	0.00
Spiked Amount			Recovery	=	116.16%	
35) Dibromofluoromethane	7.57	113	117673	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
50) Toluene-d8	10.08	98	465973	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
62) 4-Bromofluorobenzene	12.40	95	145083	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

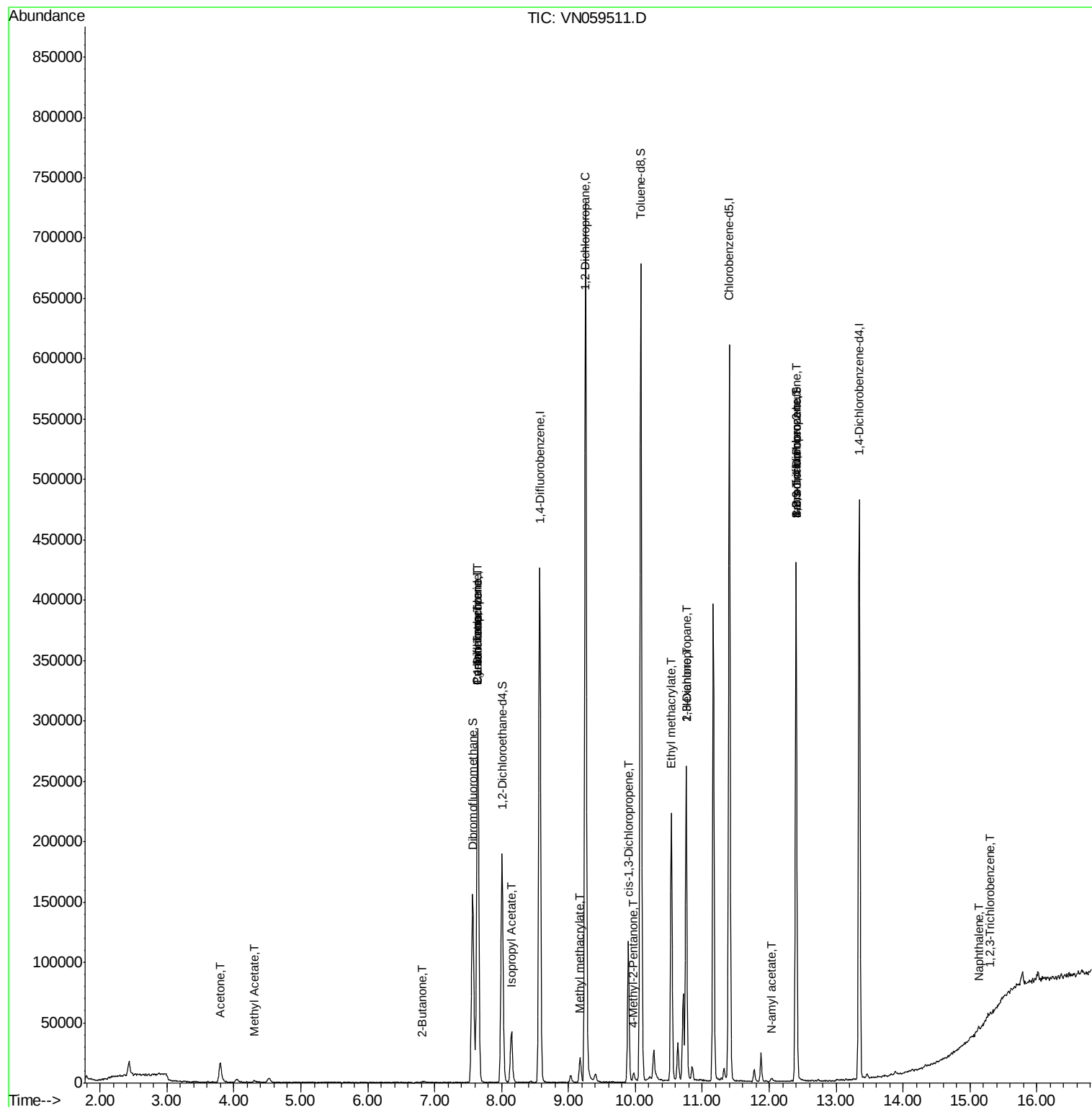
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	28584	13.054	ug/l	93
18) Methyl Acetate	4.31	43	2778	0.725	ug/l #	70
20) Methylene Chloride	4.52	84	2839	Below Cal		92
25) 2-Butanone	6.82	43	1496	0.692	ug/l	100
31) Cyclohexane	7.64	56	5511	1.150	ug/l #	10
36) 1,1-Dichloropropene	7.64	75	19308	5.045	ug/l #	45
38) Carbon Tetrachloride	7.64	117	23387	6.354	ug/l #	16
43) Isopropyl Acetate	8.15	43	51912	8.165	ug/l #	87
45) 1,2-Dichloropropane	9.25	63	842	0.281	ug/l #	44
48) Methyl methacrylate	9.17	41	3077	1.073	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	6200	1.643	ug/l #	78
54) cis-1,3-Dichloropropene	9.90	75	19151	4.108	ug/l #	76
56) Ethyl methacrylate	10.54	69	922	1.659	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	2430	0.526	ug/l #	42
59) 2-Hexanone	10.76	43	39524	13.916	ug/l #	50
71) Bromoform	12.40	173	481	0.235	ug/l #	28
74) N-amyl acetate	12.03	43	2836	0.711	ug/l #	42
76) 1,2,3-Trichloropropane	12.40	75	78333	25.530	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78333	66.999	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.28	75	29	Below Cal	#	2
95) Naphthalene	15.13	128	1521	2.633	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.30	180	393	2.113	ug/l	69

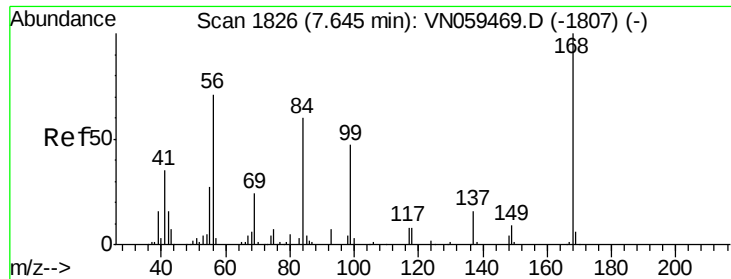
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120619\
Data File : VN059511.D
Acq On : 6 Dec 2019 13:47
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
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: VN059511.D

Acq: 6 Dec 2019 13:47

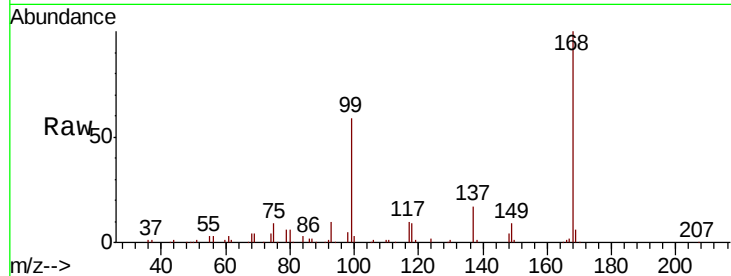
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 229069

Ion Ratio Lower Upper

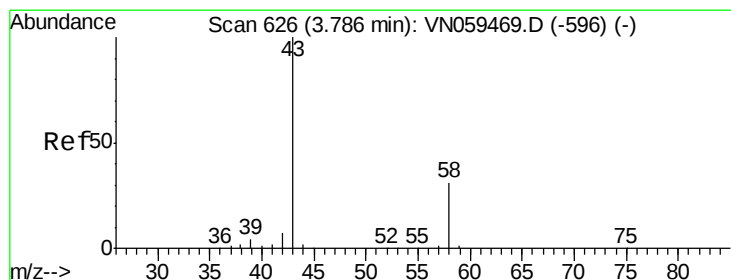
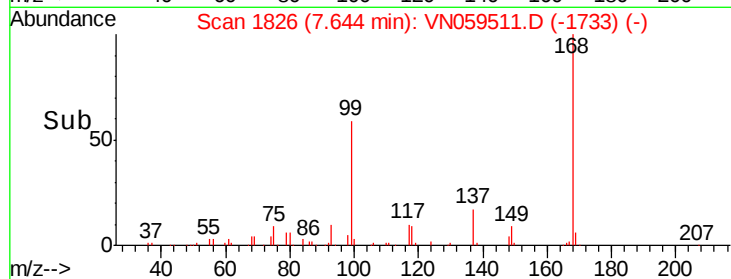
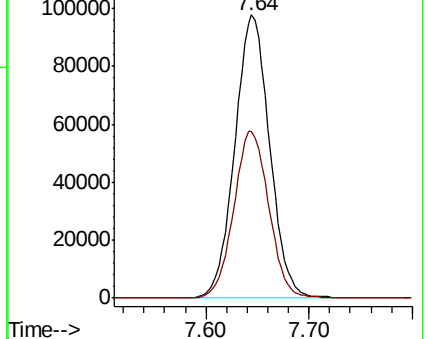
168 100

99 59.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 13.054 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059511.D

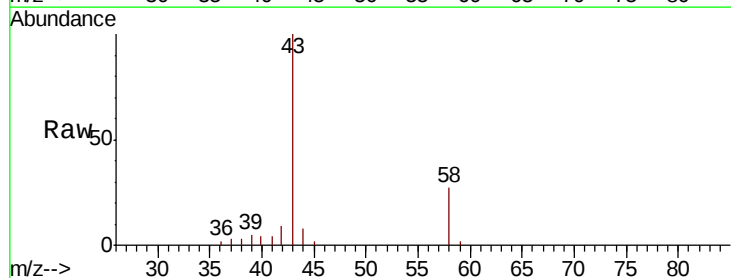
Acq: 6 Dec 2019 13:47

Tgt Ion: 43 Resp: 28584

Ion Ratio Lower Upper

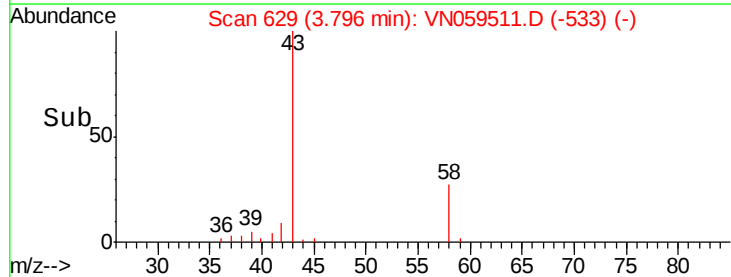
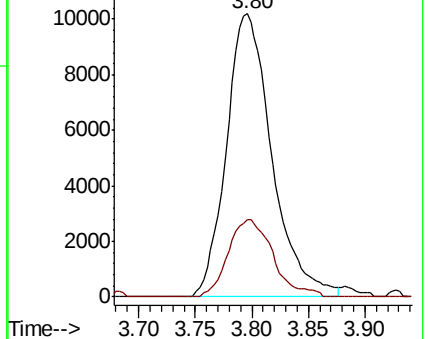
43 100

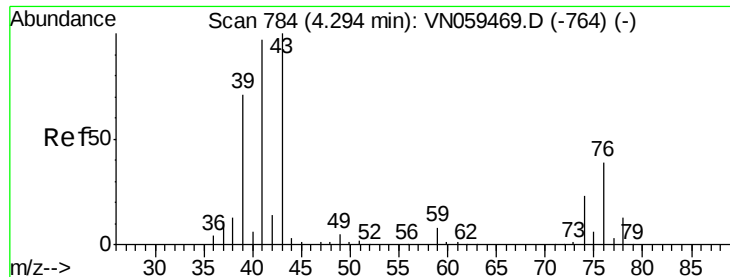
58 27.3 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

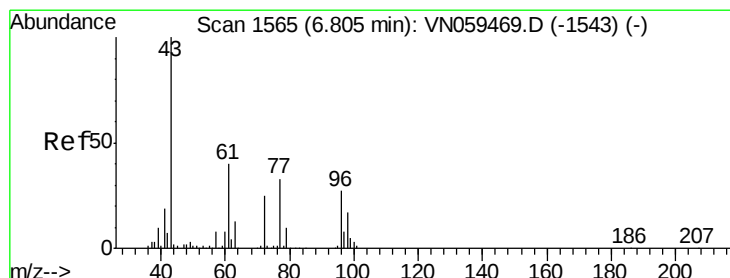
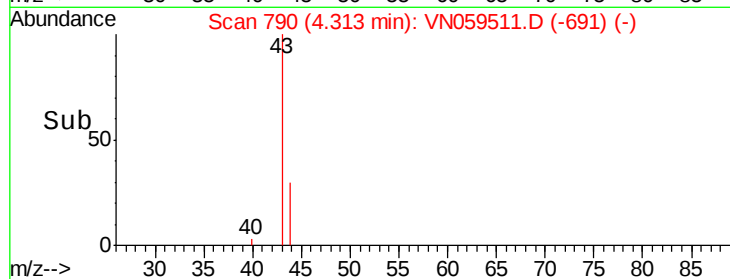
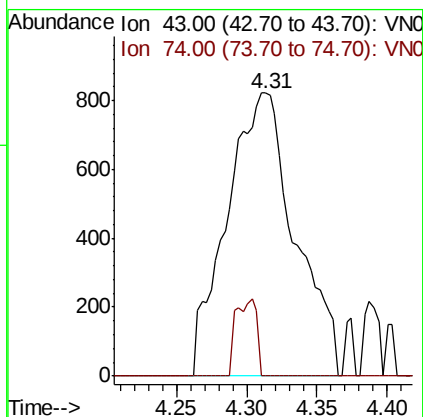
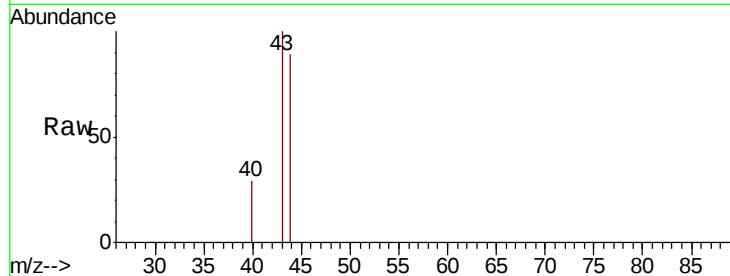




#18
Methyl Acetate
Concen: 0.725 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.02 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

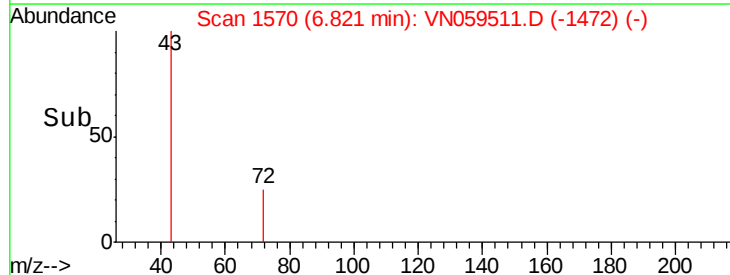
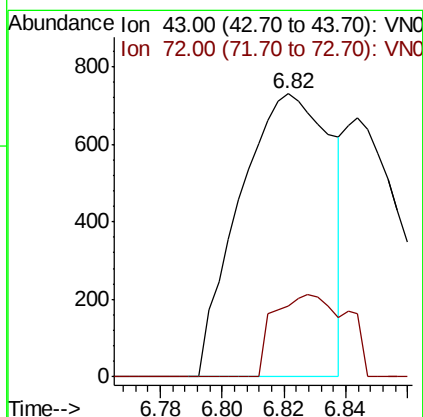
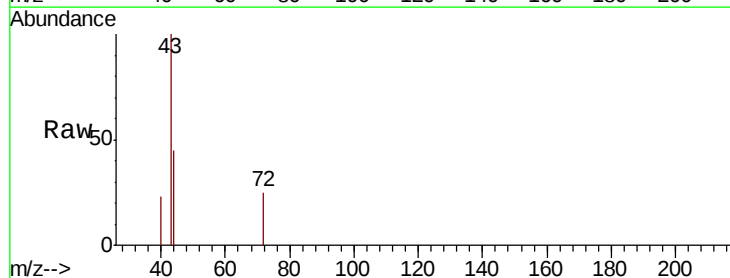
Instrument :
MSVOA_N
ClientSampled :

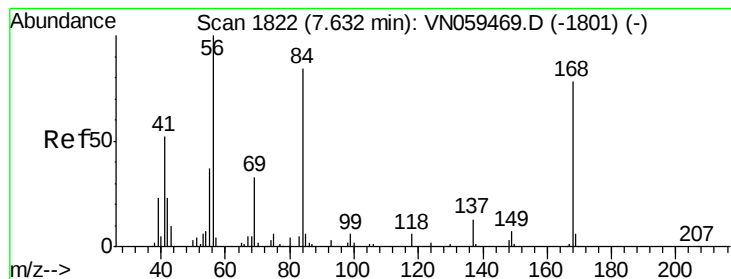
Tot Ion: 43 Resp: 2778
Ion Ratio Lower Upper
43 100
74 8.3 18.3 27.5#



#25
2-Butanone
Concen: 0.692 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Tgt Ion: 43 Resp: 1496
Ion Ratio Lower Upper
43 100
72 25.1 20.2 30.2





#31

Cyclohexane

Concen: 1.150 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

Instrument :

MSVOA_N

ClientSampled :

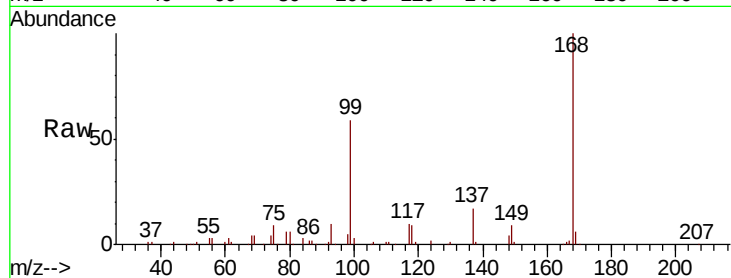
Tot Ion: 56 Resp: 5511

Ion Ratio Lower Upper

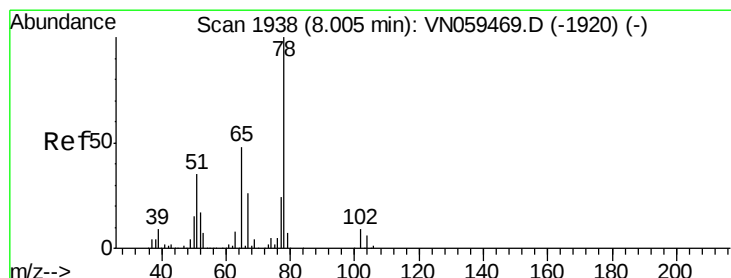
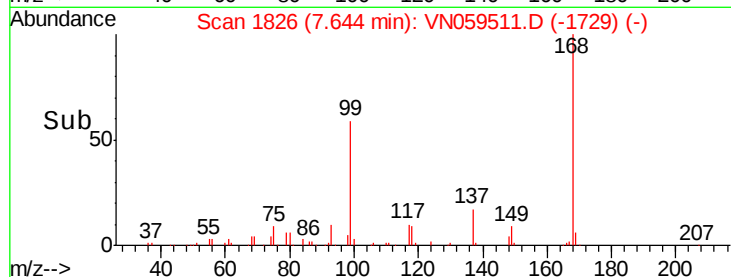
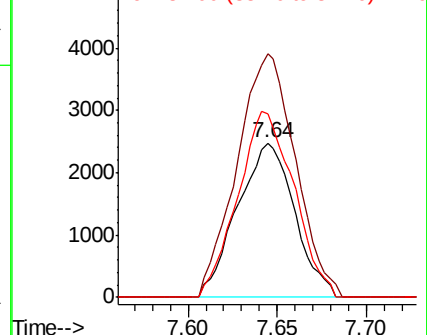
56 100

69 157.4 26.2 39.4#

84 118.3 66.8 100.2#



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: 58.080 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059511.D

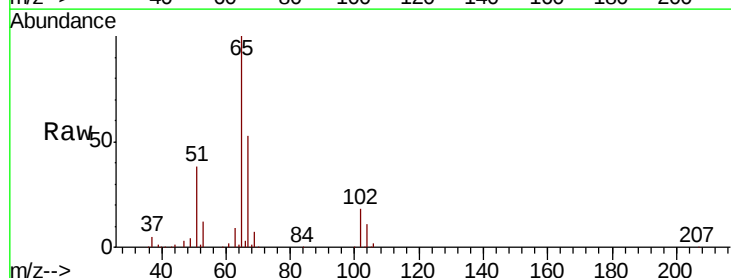
Acq: 6 Dec 2019 13:47

Tgt Ion: 65 Resp: 165276

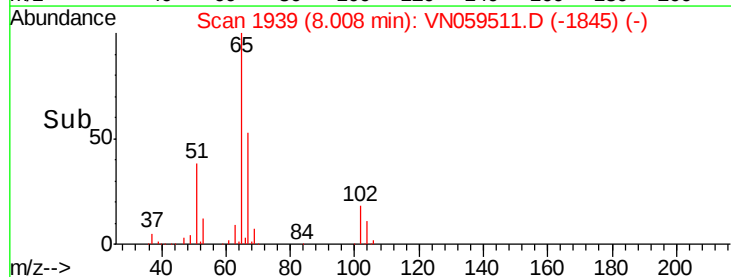
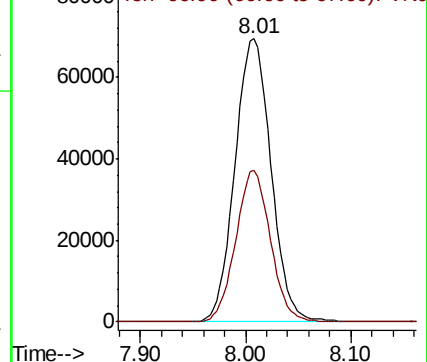
Ion Ratio Lower Upper

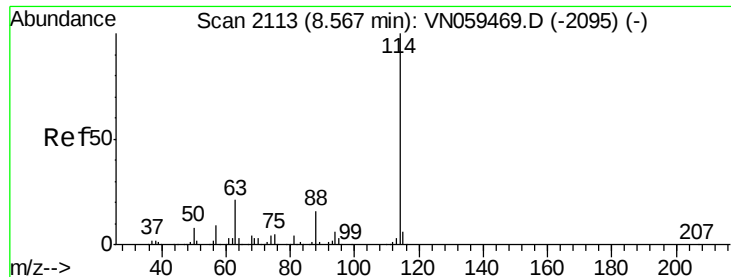
65 100

67 51.5 0.0 107.4



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

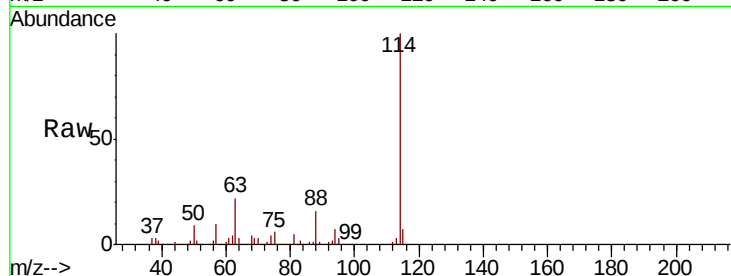




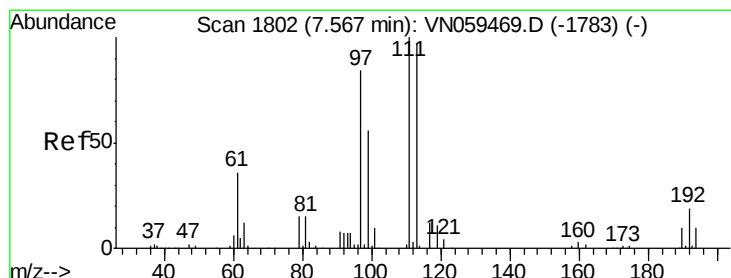
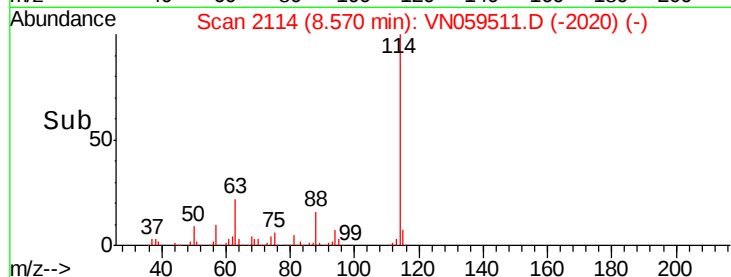
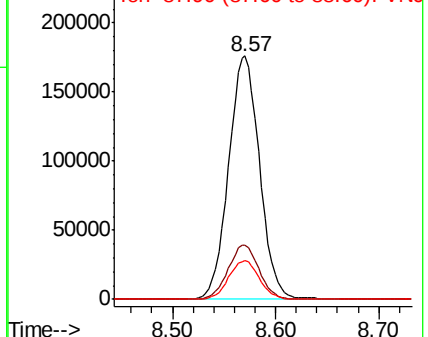
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 367755
Ion Ratio Lower Upper
114 100
63 22.2 0.0 42.4
88 15.8 0.0 32.8

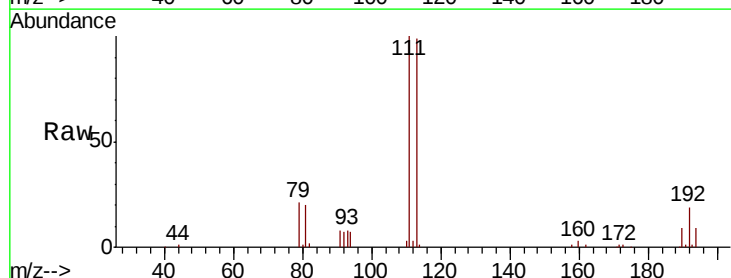


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

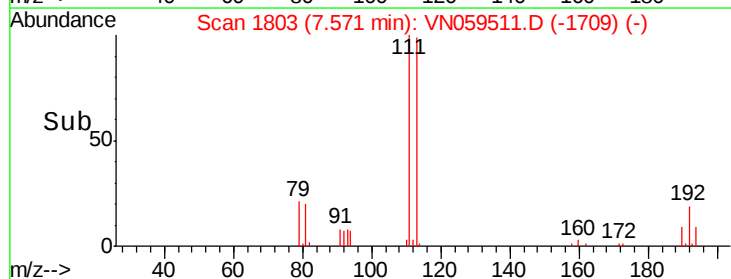
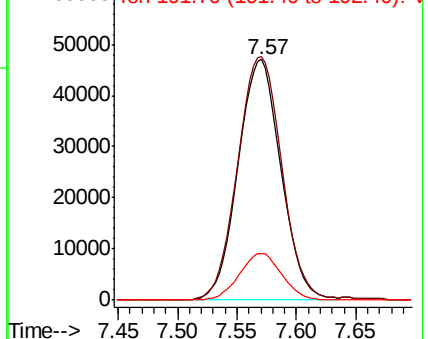


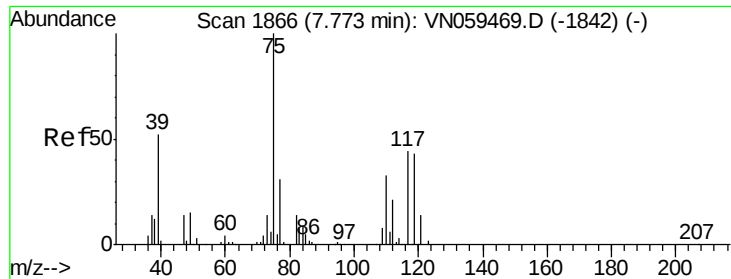
#35
Dibromofluoromethane
Concen: 51.375 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Tgt Ion:113 Resp: 117673
Ion Ratio Lower Upper
113 100
111 103.9 82.5 123.7
192 19.0 16.1 24.1



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

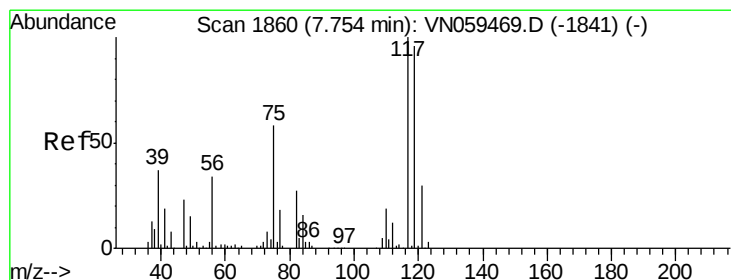
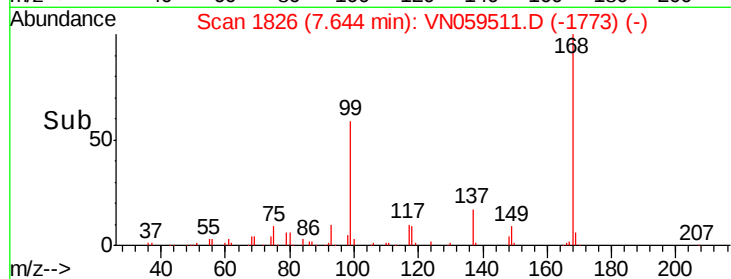
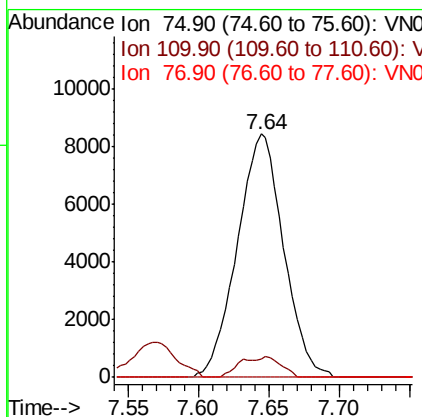
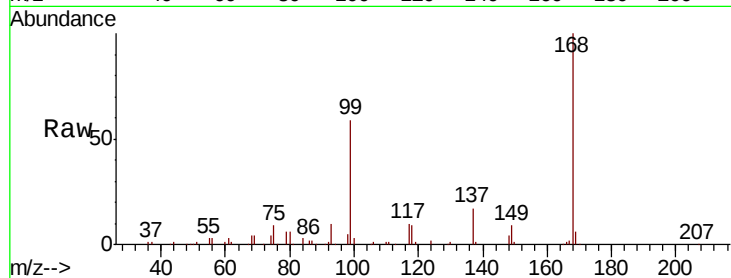




#36
 1,1-Dichloropropene
 Concen: 5.045 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059511.D
 Acq: 6 Dec 2019 13:47

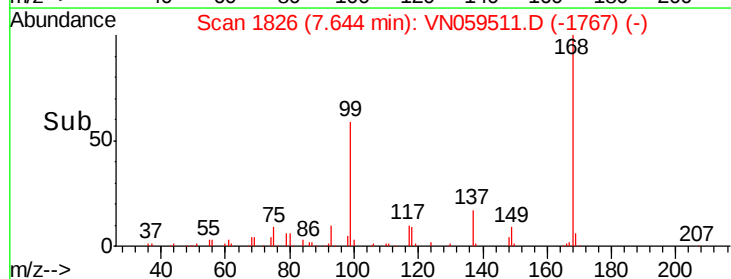
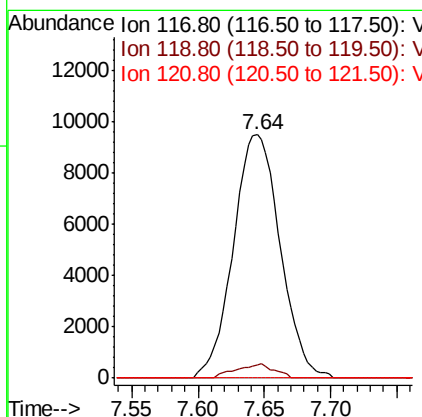
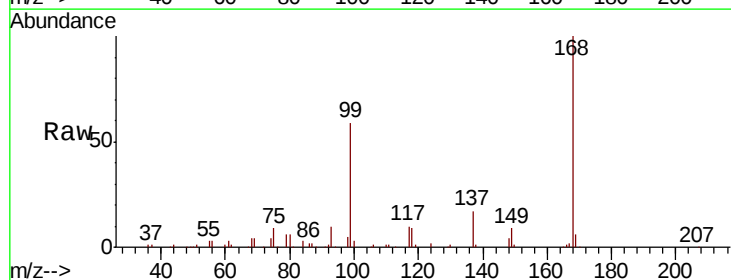
Instrument :
 MSVOA_N
 ClientSampleId :

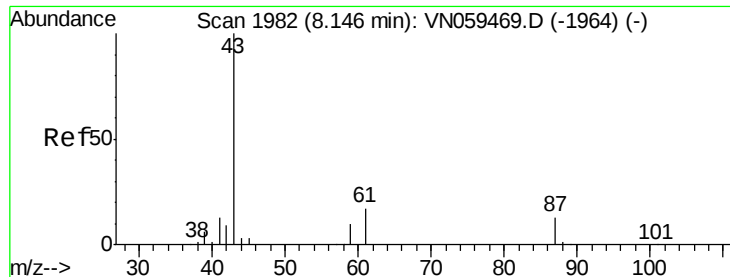
Tot Ion: 75 Resp: 19308
 Ion Ratio Lower Upper
 75 100
 110 3.0 16.9 50.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.354 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059511.D
 Acq: 6 Dec 2019 13:47

Tgt Ion: 117 Resp: 23387
 Ion Ratio Lower Upper
 117 100
 119 5.6 76.6 114.8#
 121 0.0 24.0 36.0#





#43

Isopropyl Acetate

Concen: 8.165 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

Instrument :

MSVOA_N

ClientSampleId :

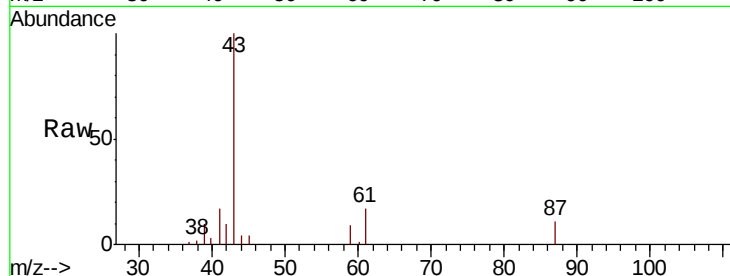
Tot Ion: 43 Resp: 51912

Ion Ratio Lower Upper

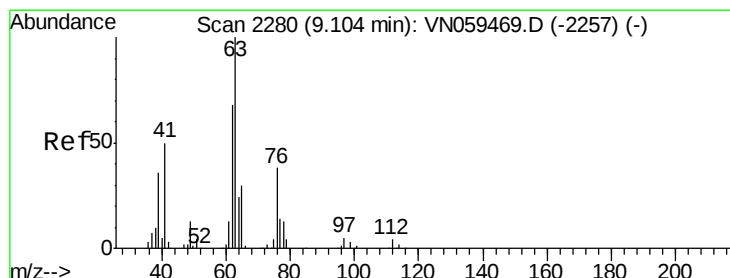
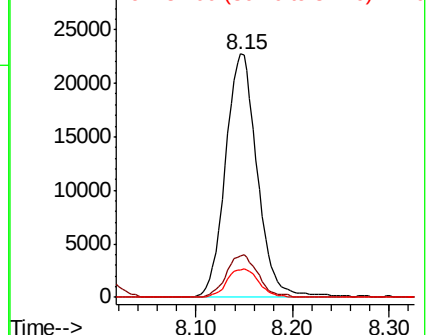
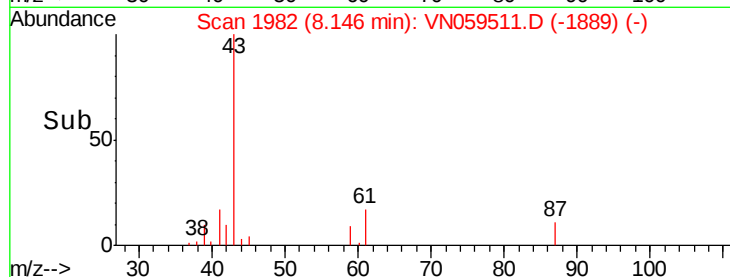
43 100

61 17.4 21.0 31.6#

87 11.6 10.4 15.6



Abundance Ion 43.00 (42.70 to 43.70): VN059511.D (-1889) (-)



#45

1,2-Dichloropropane

Concen: 0.281 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059511.D

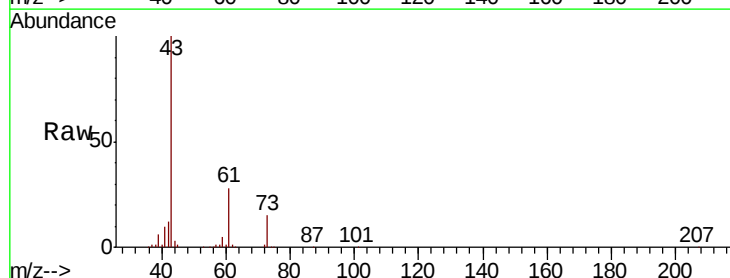
Acq: 6 Dec 2019 13:47

Tgt Ion: 63 Resp: 842

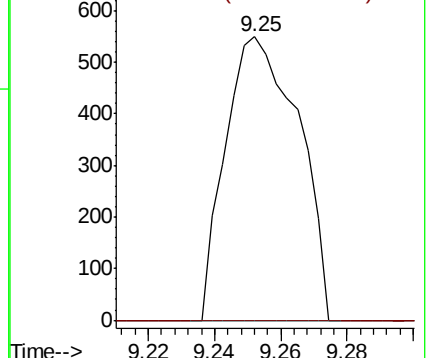
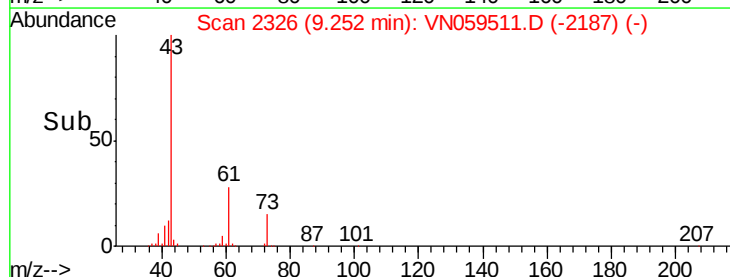
Ion Ratio Lower Upper

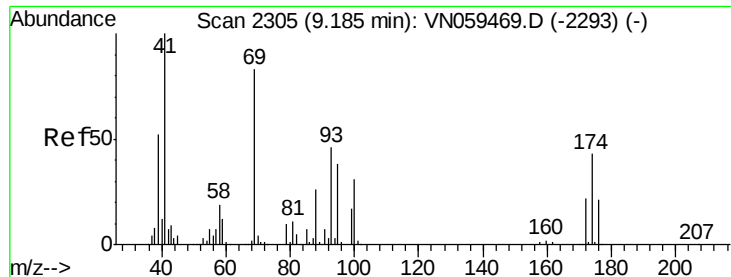
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN059511.D (-2187) (-)

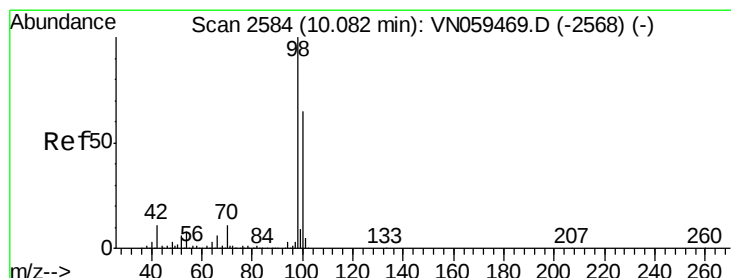
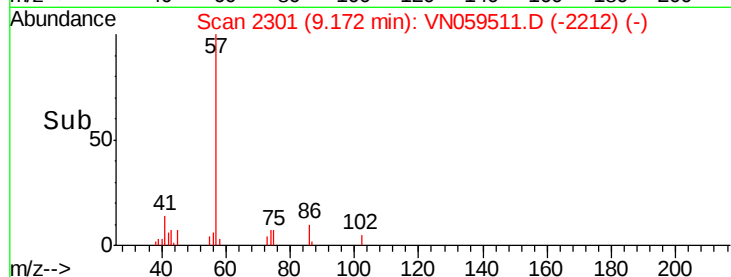
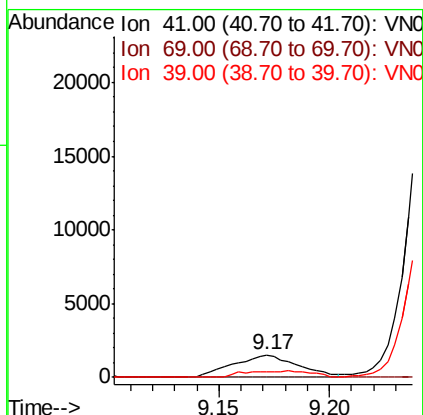
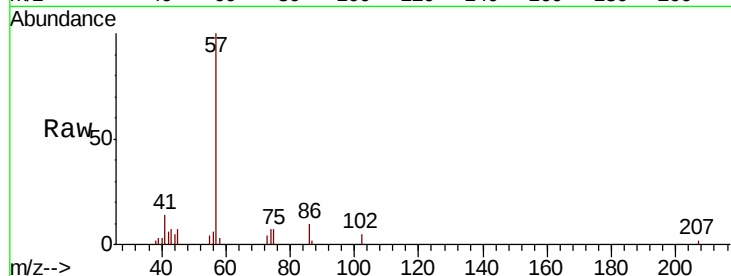




#48
Methvl methacrylate
Concen: 1.073 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.01 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

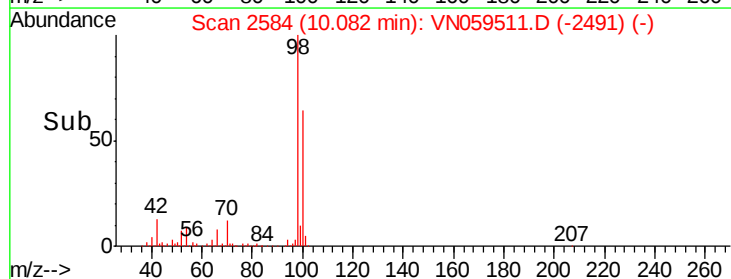
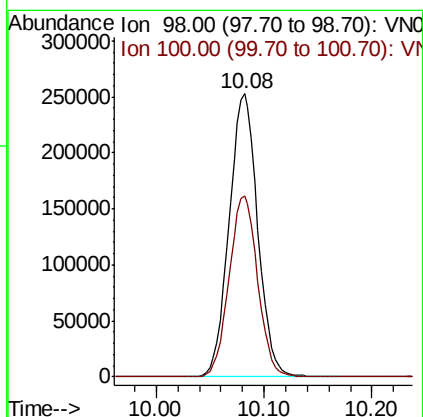
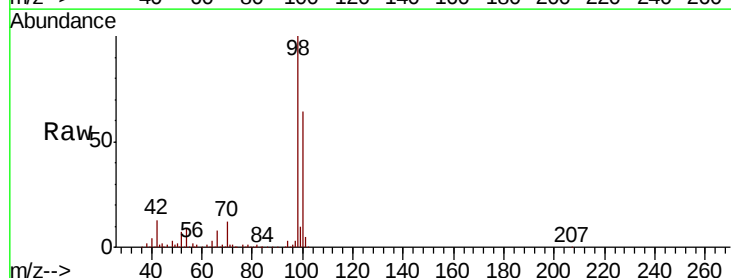
Instrument :
MSVOA_N
ClientSampled :

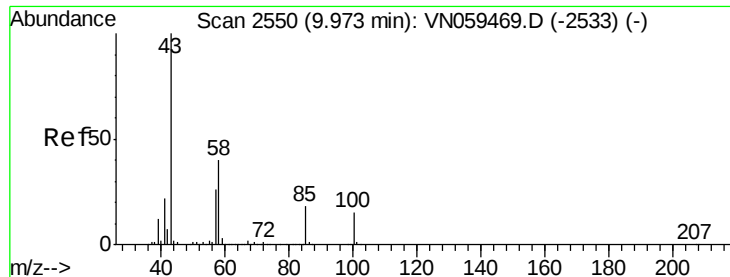
Tot Ion: 41 Resp: 3077
Ion Ratio Lower Upper
41 100
69 0.0 68.6 103.0#
39 0.0 43.2 64.8#



#50
Toluene-d8
Concen: 51.598 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Tgt Ion: 98 Resp: 465973
Ion Ratio Lower Upper
98 100
100 63.9 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.643 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

Instrument :

MSVOA_N

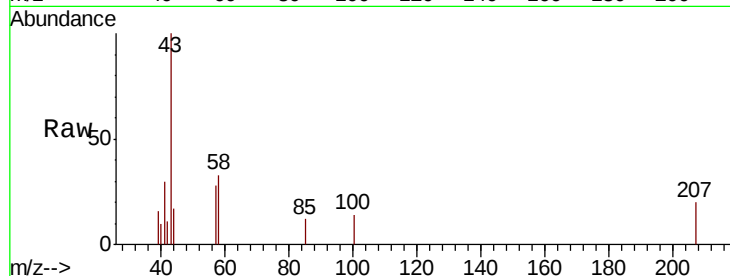
ClientSampleId :

Tot Ion: 43 Resp: 6200

Ion Ratio Lower Upper

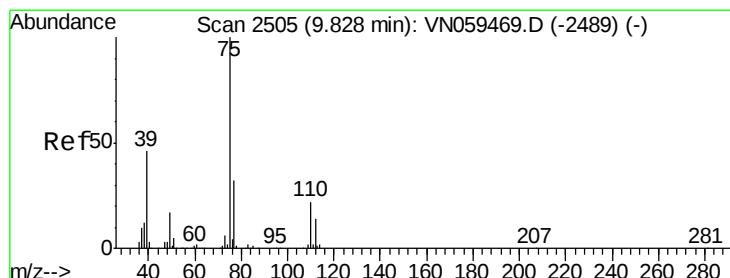
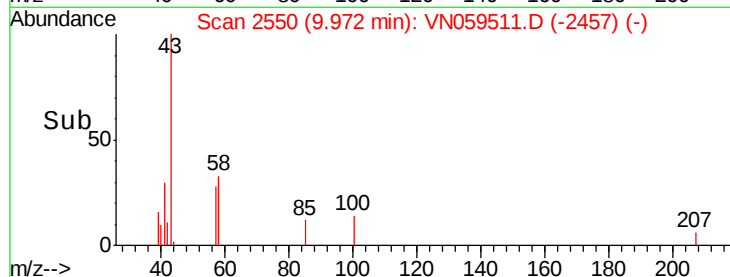
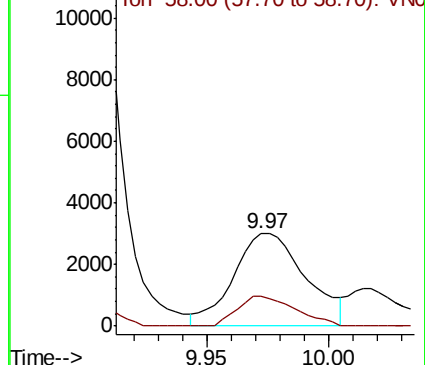
43 100

58 26.2 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN059469.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN059469.D (-2533) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.108 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.07 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

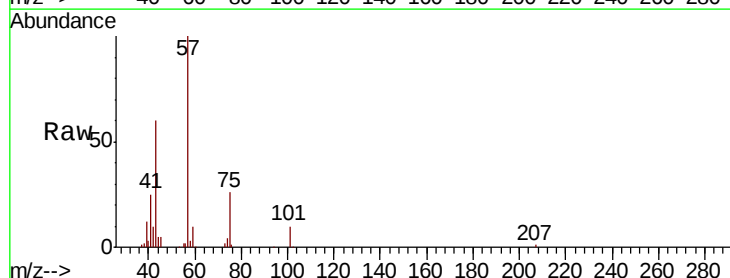
Tgt Ion: 75 Resp: 19151

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

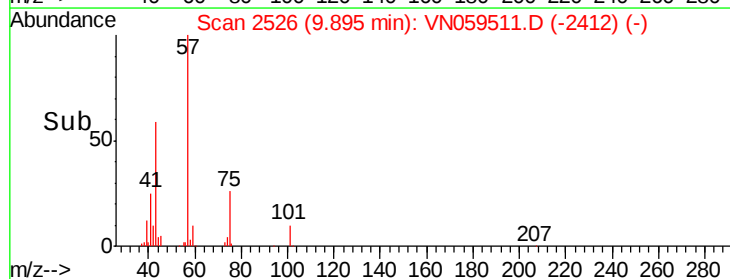
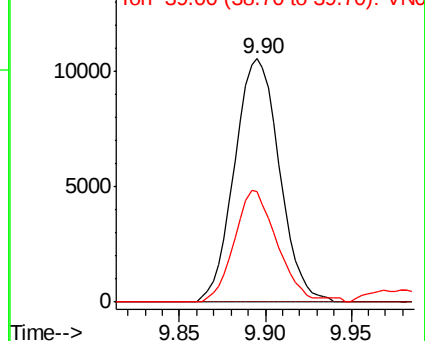
39 45.4 36.6 54.8

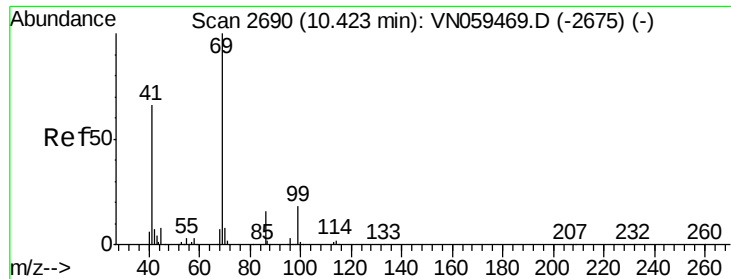


Abundance Ion 74.90 (74.60 to 75.60): VN059469.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN059469.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN059469.D (-2489) (-)





#56

Ethyl methacrylate

Concen: 1.659 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.11 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

Instrument :

MSVOA_N

ClientSampleId :

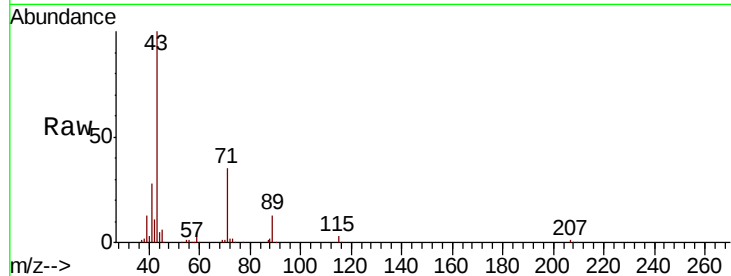
Tot Ion: 69 Resp: 922

Ion Ratio Lower Upper

69 100

41 4885.7 52.7 79.1#

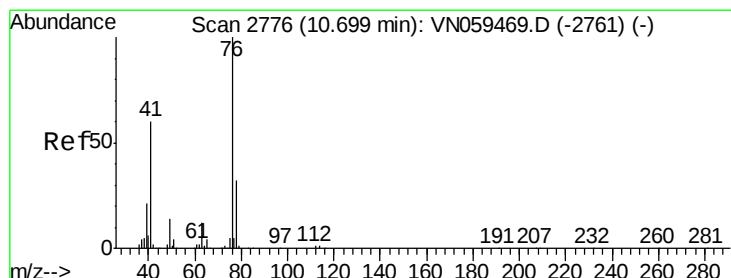
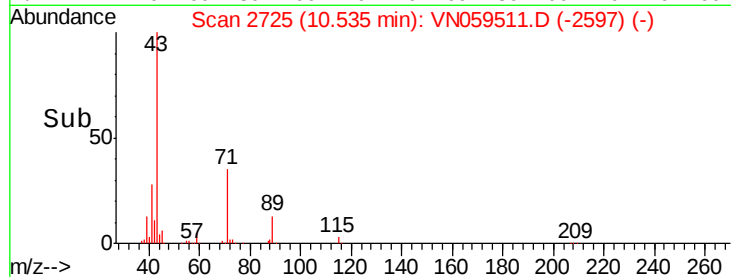
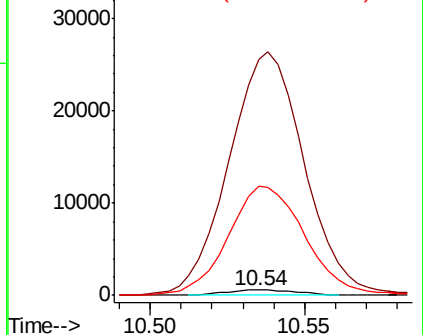
39 2219.7 25.0 37.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.526 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN059511.D

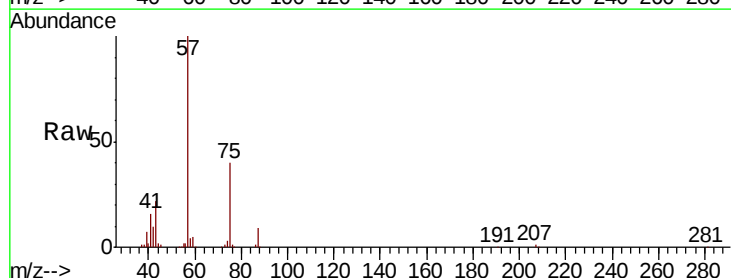
Acq: 6 Dec 2019 13:47

Tgt Ion: 76 Resp: 2430

Ion Ratio Lower Upper

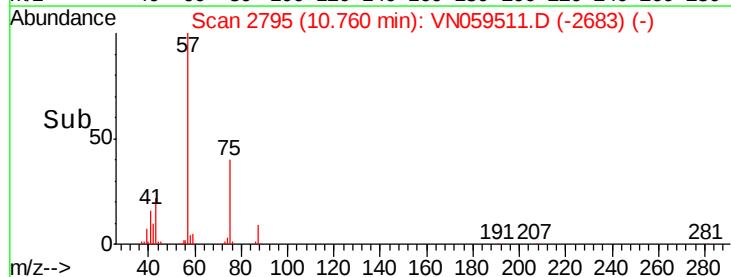
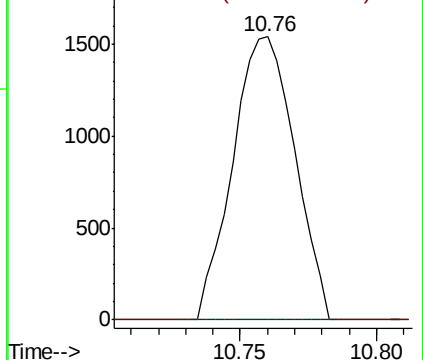
76 100

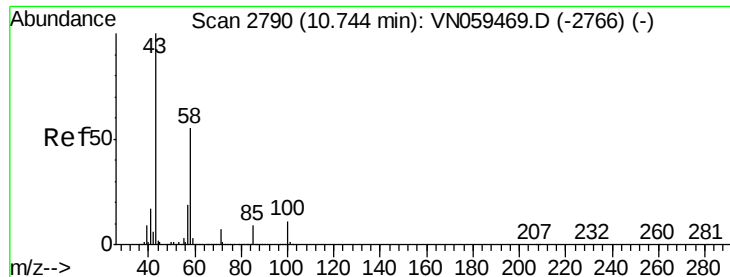
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

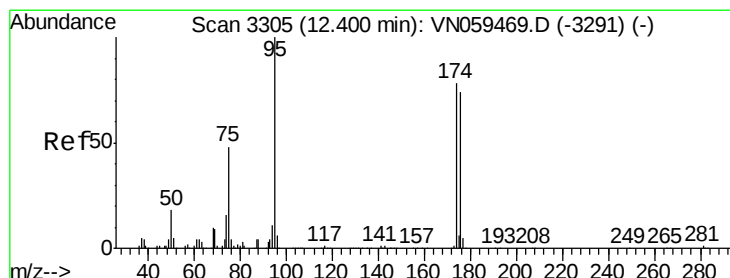
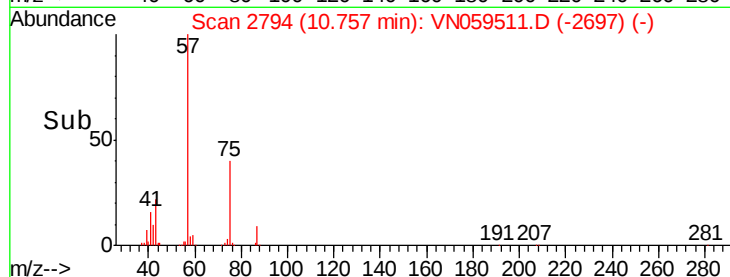
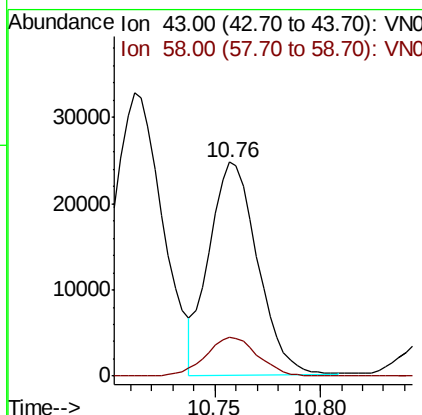
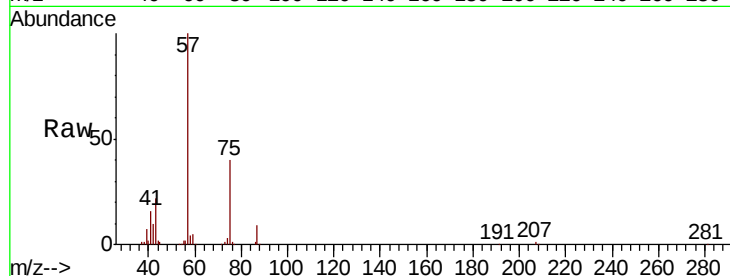




#59
2-Hexanone
Concen: 13.916 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

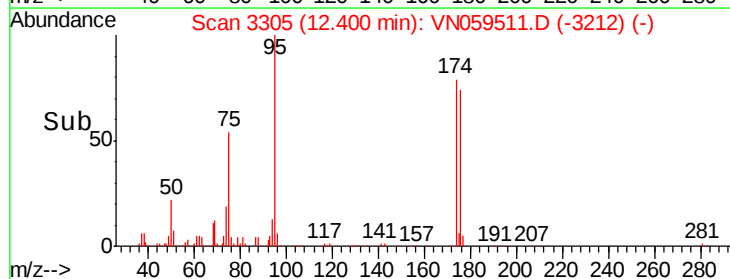
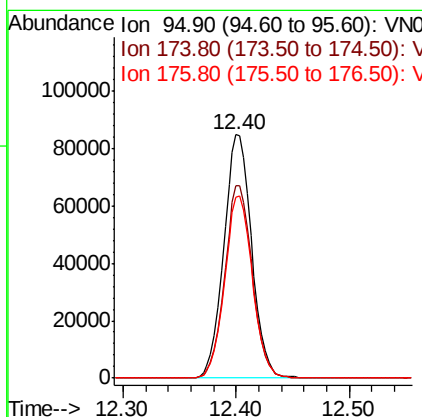
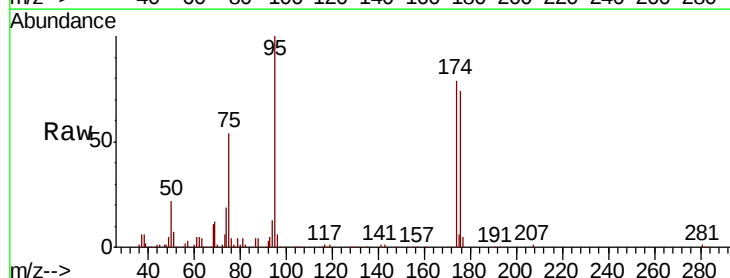
Instrument :
MSVOA_N
ClientSampled :

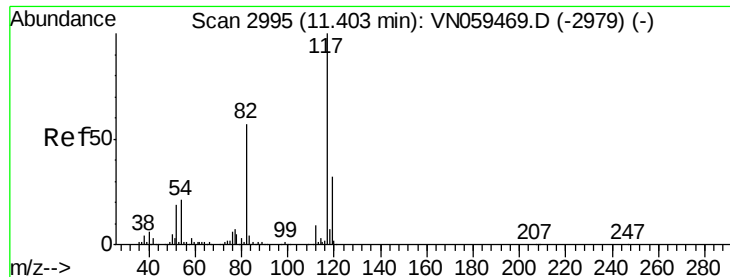
Tot Ion: 43 Resp: 39524
Ion Ratio Lower Upper
43 100
58 19.3 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 46.002 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Tgt Ion: 95 Resp: 145083
Ion Ratio Lower Upper
95 100
174 78.3 0.0 157.0
176 74.6 0.0 152.4

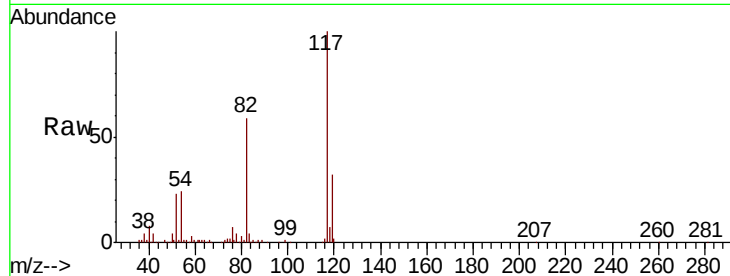




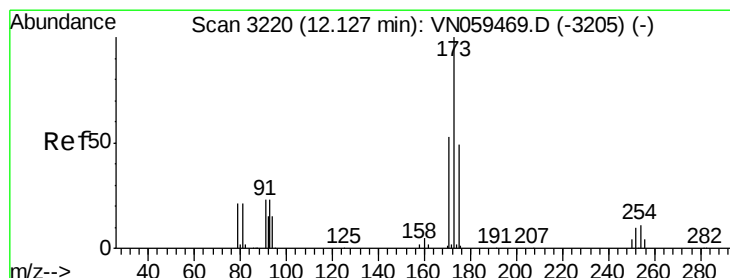
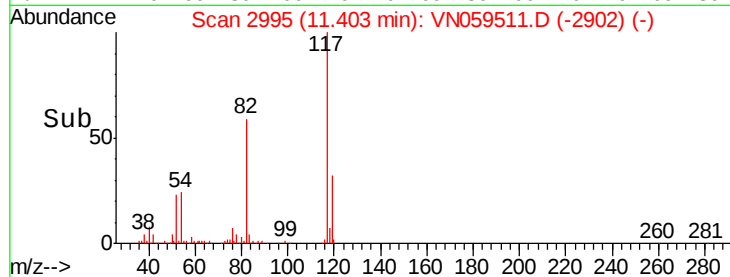
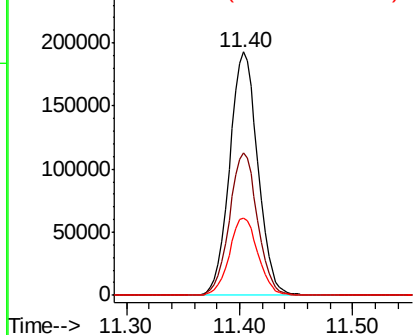
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 334165
Ion Ratio Lower Upper
117 100
82 58.6 45.8 68.8
119 31.8 25.4 38.0

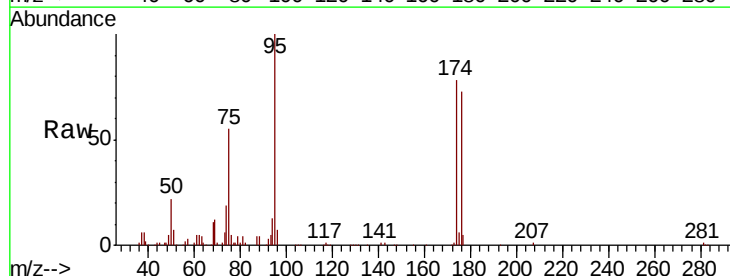


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

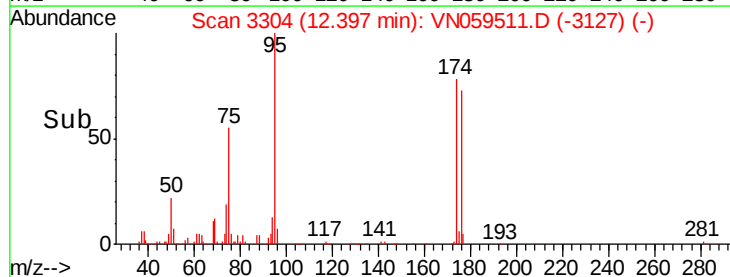
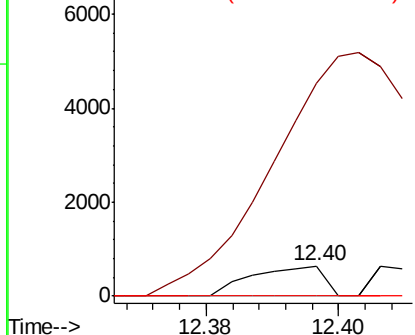


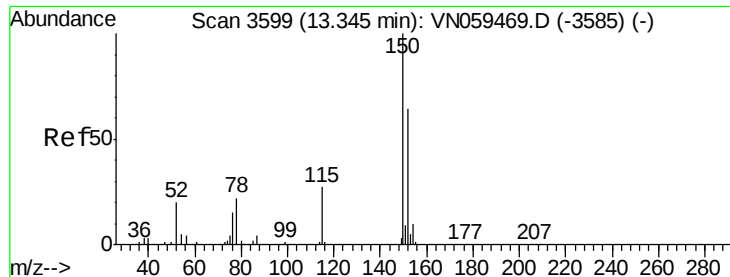
#71
Bromoform
Concen: 0.235 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Tgt Ion:173 Resp: 481
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0



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



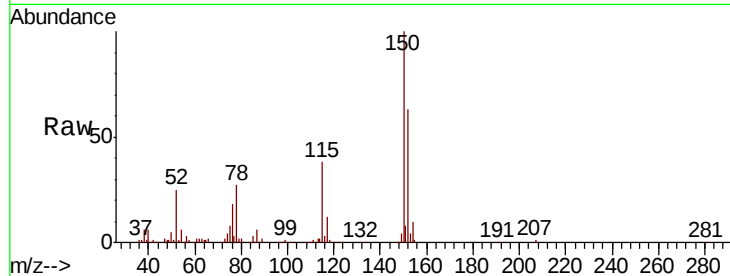


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.8	29.2	87.6
150	159.0	0.0	352.8

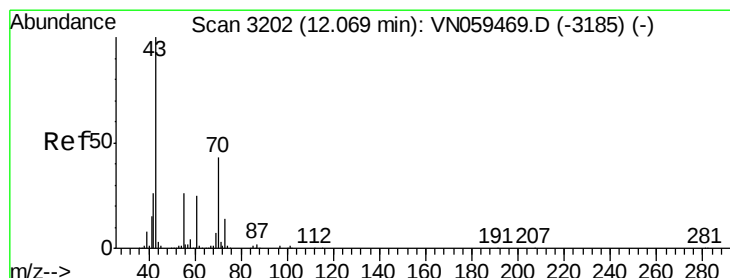
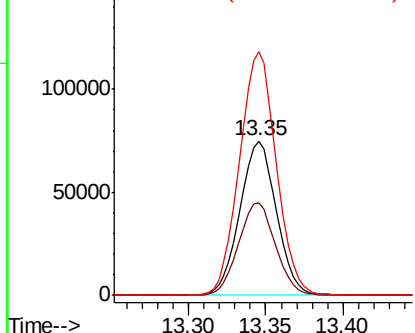
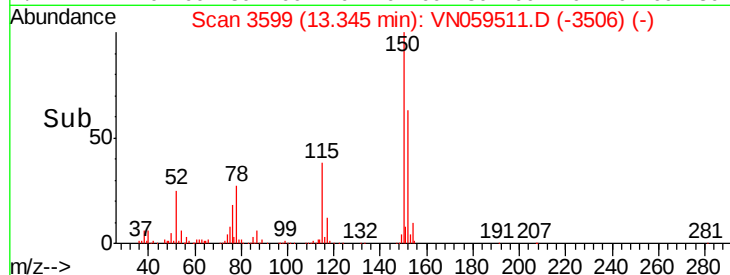


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

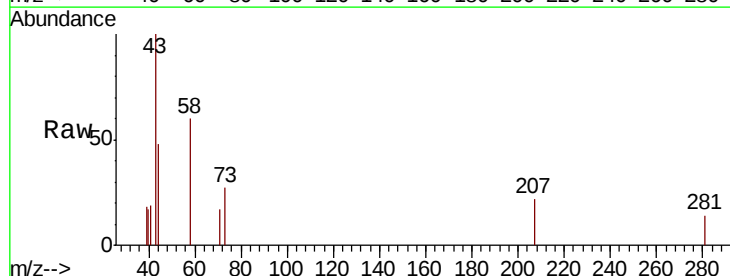
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.711 ug/l
RT: 12.03 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN059511.D
Acq: 6 Dec 2019 13:47

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.2	51.2#
55	0.0	20.6	31.0#
61	0.0	19.3	28.9#



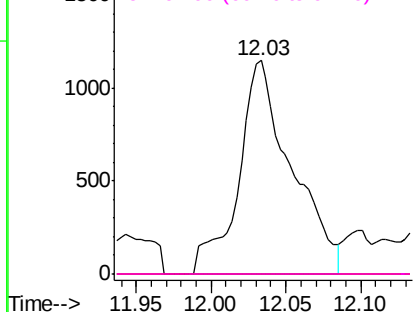
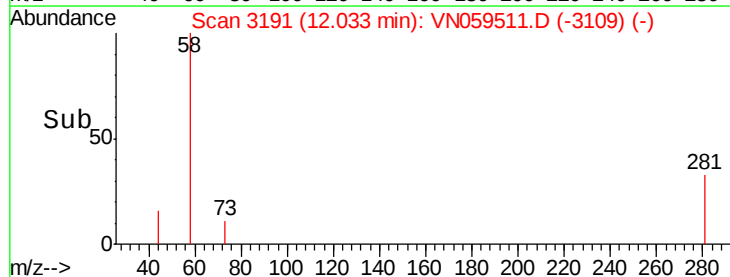
Abundance

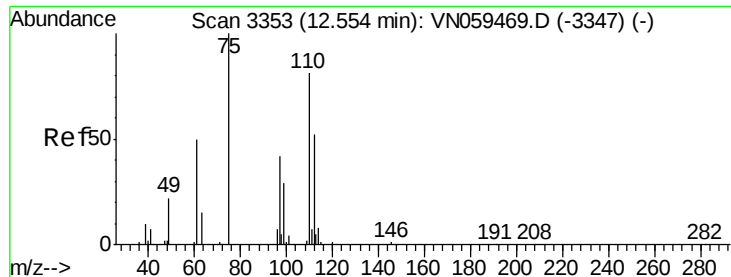
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.530 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

Instrument :

MSVOA_N

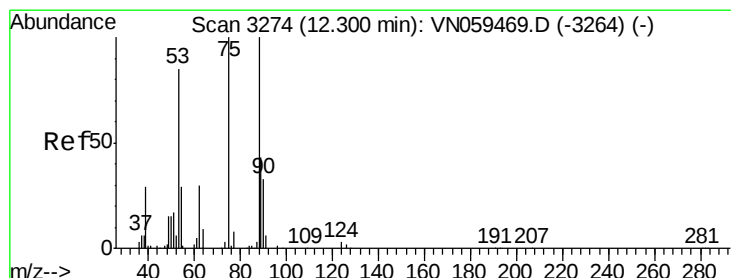
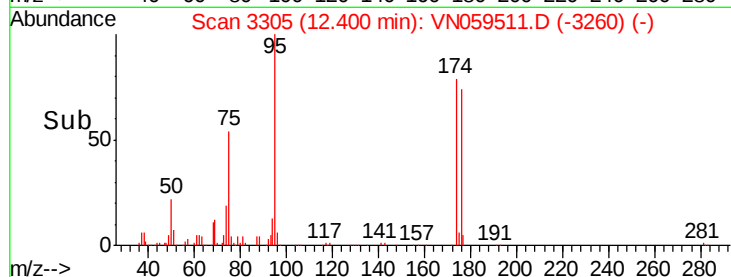
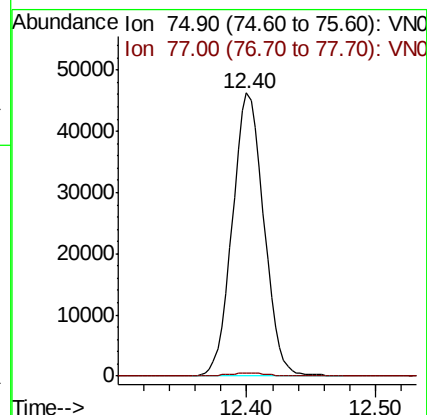
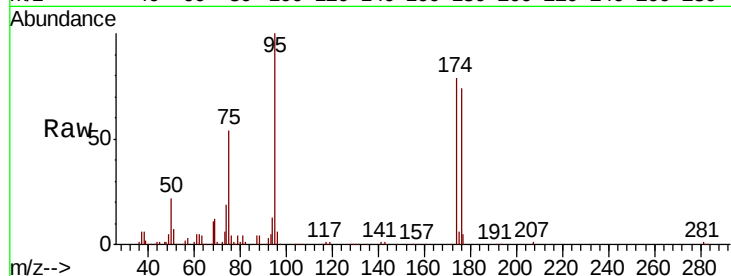
ClientSampleId :

Tot Ion: 75 Resp: 78333

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.999 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

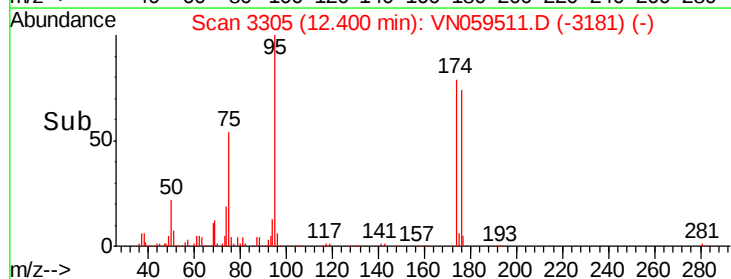
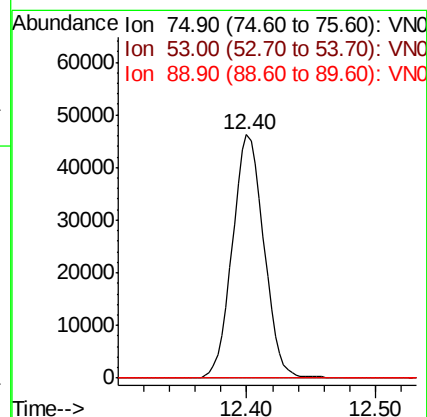
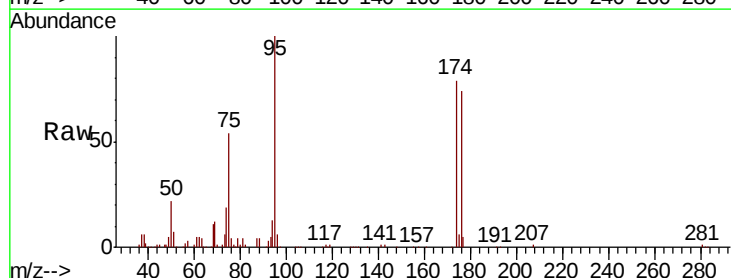
Tgt Ion: 75 Resp: 78333

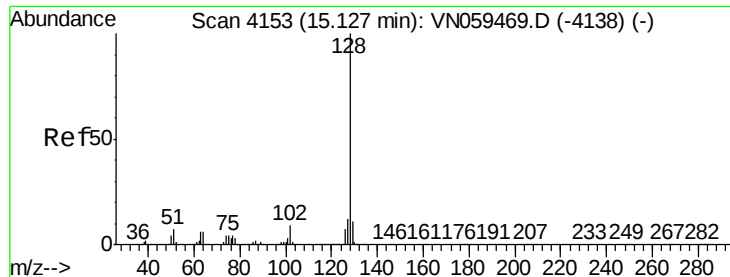
Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.2 52.8#





#95

Naphthalene

Concen: 2.633 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

Instrument :

MSVOA_N

ClientSampleId :

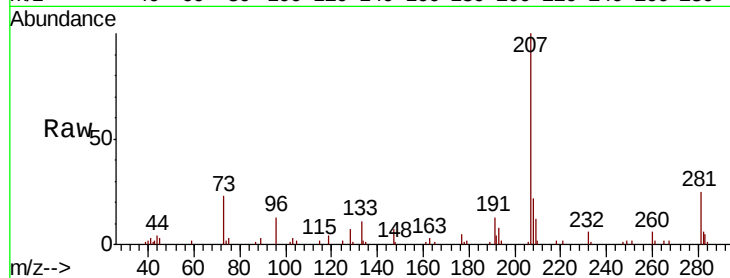
Tot Ion:128 Resp: 1521

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

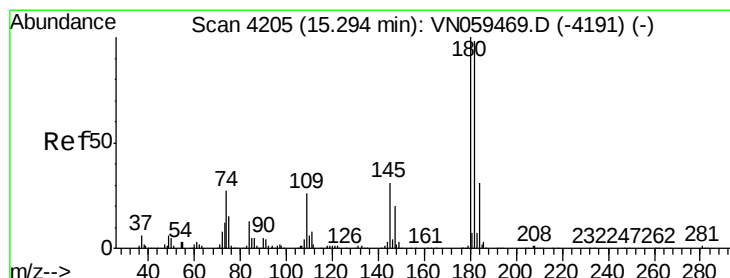
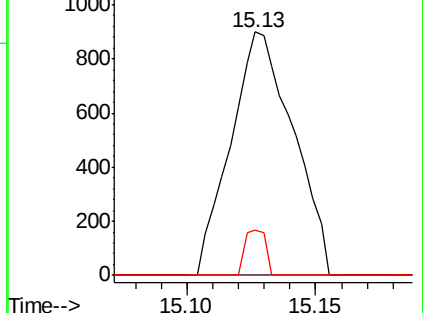
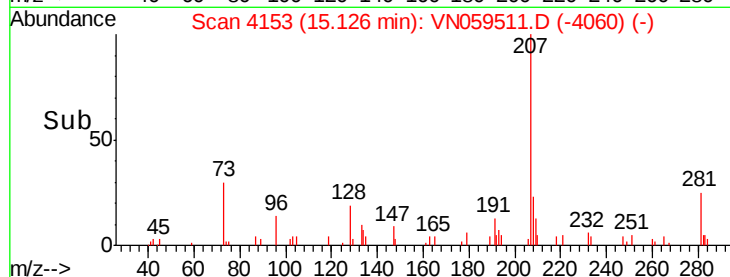
129 6.2 8.8 13.2#



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: 2.113 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.01 min

Lab File: VN059511.D

Acq: 6 Dec 2019 13:47

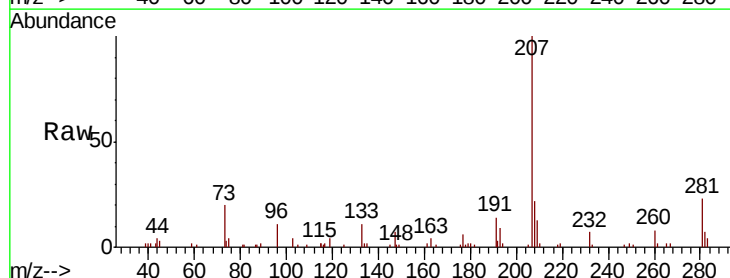
Tgt Ion:180 Resp: 393

Ion Ratio Lower Upper

180 100

182 59.3 48.5 145.5

145 35.9 16.1 48.2



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

