

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059919.D
 Acq On : 29 Jan 2020 17:54
 Operator : JC/MD
 Sample : PB126412ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:04:23 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	205611	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	311811	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	272064	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	108519	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	107974	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
35) Dibromofluoromethane	7.57	113	94691	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
50) Toluene-d8	10.08	98	364861	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.40	95	117307	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	

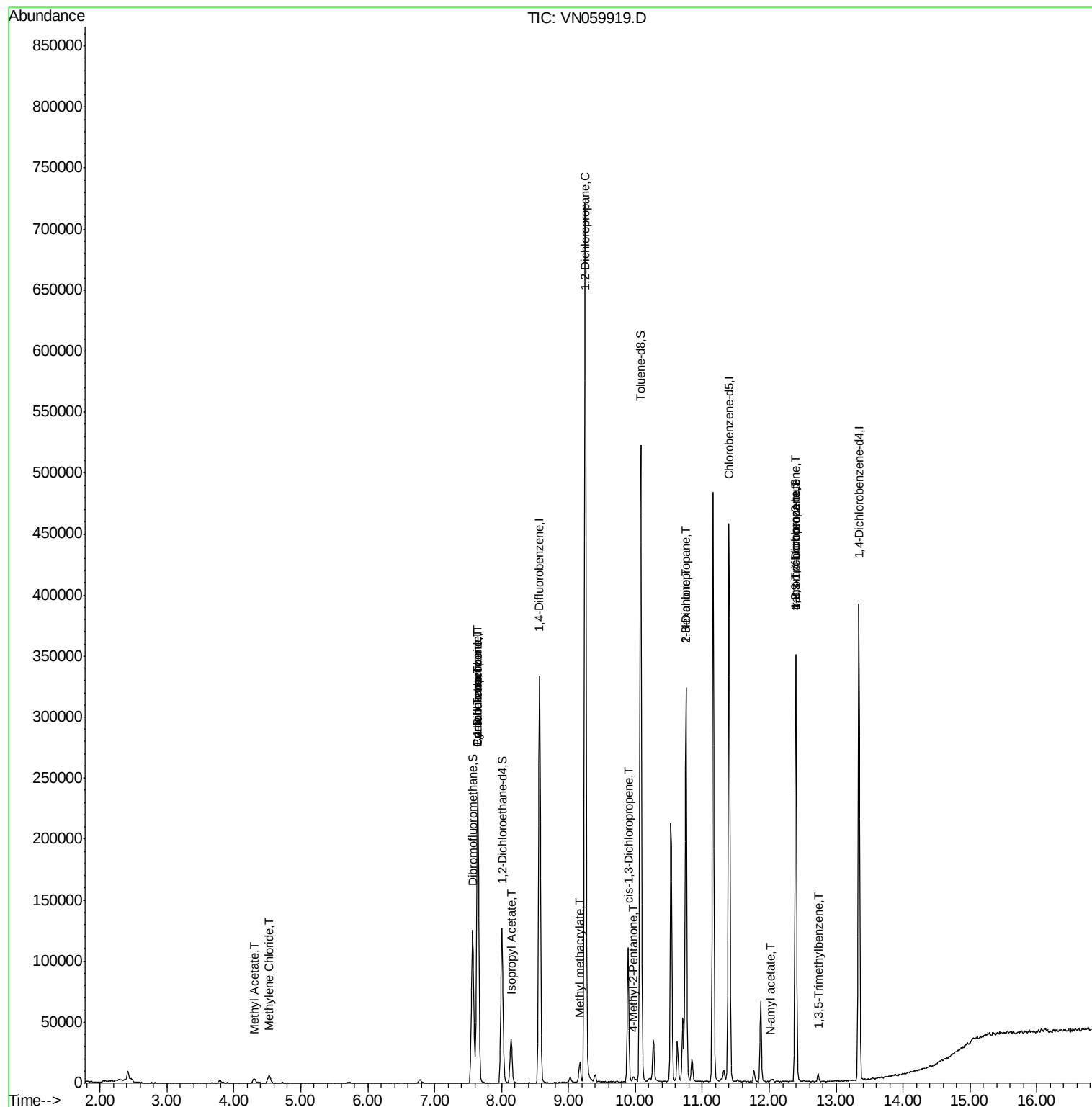
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3580	Below Cal		99
18) Methyl Acetate	4.29	43	2848	1.068	ug/l #	30
20) Methylene Chloride	4.53	84	5315	1.313	ug/l	93
31) Cyclohexane	7.65	56	4018	1.189	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14483	5.334	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18713	6.335	ug/l #	15
43) Isopropyl Acetate	8.14	43	42616	9.728	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	820	0.409	ug/l #	44
48) Methyl methacrylate	9.17	41	2258	1.152	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2649	1.046	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	20938	6.256	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3591	1.116	ug/l #	42
59) 2-Hexanone	10.75	43	45717	24.506	ug/l #	54
74) N-amyl acetate	12.03	43	2047	0.663	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	59382	32.516	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4080	0.610	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	59382	69.827	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.22	75	30	Below Cal	#	6

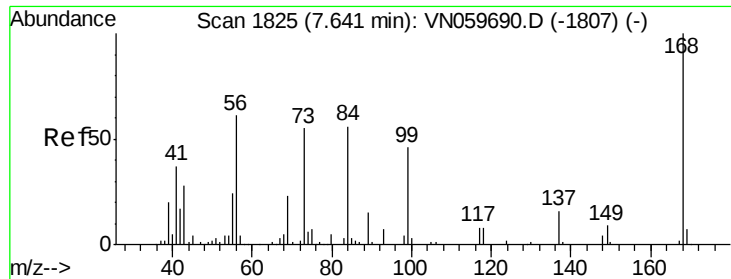
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN059919.D

Acq: 29 Jan 2020 17:54

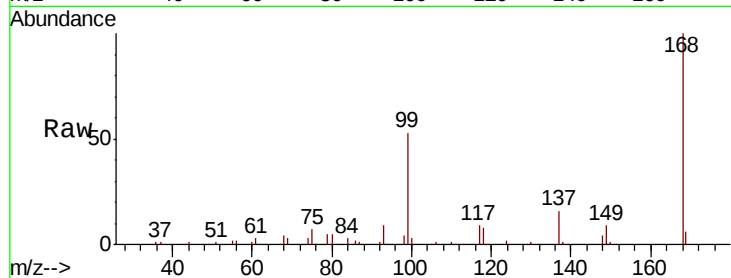
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 205611

Ion Ratio Lower Upper

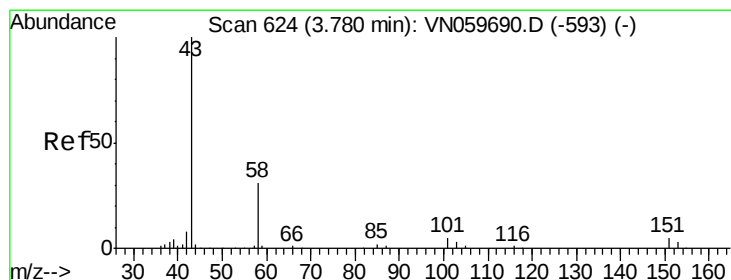
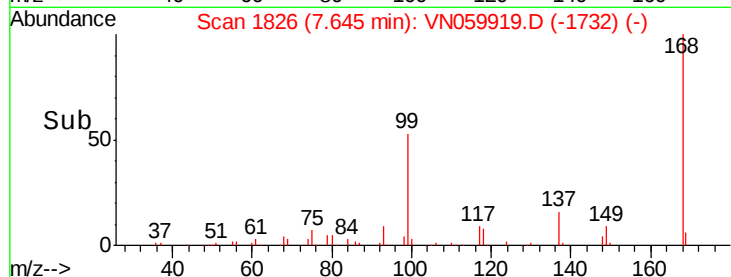
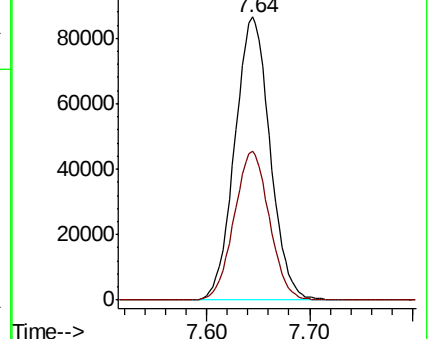
168 100

99 52.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059919.D

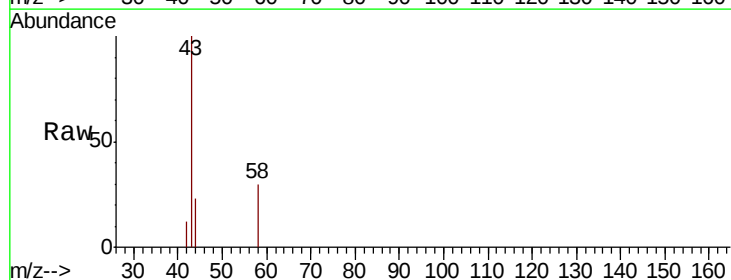
Acq: 29 Jan 2020 17:54

Tgt Ion: 43 Resp: 3580

Ion Ratio Lower Upper

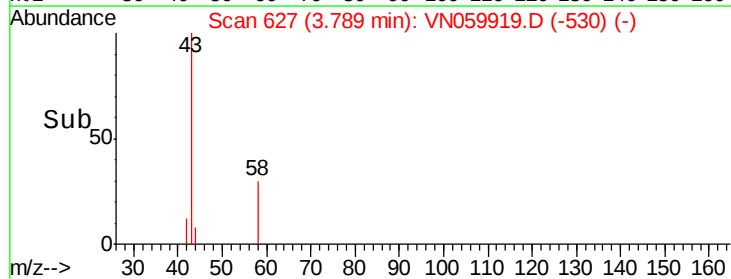
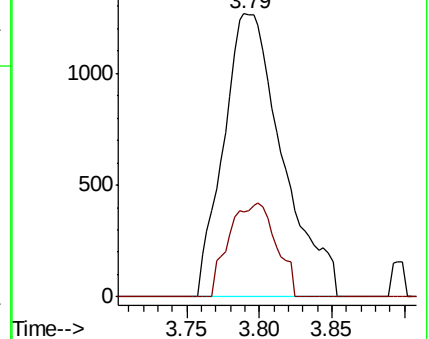
43 100

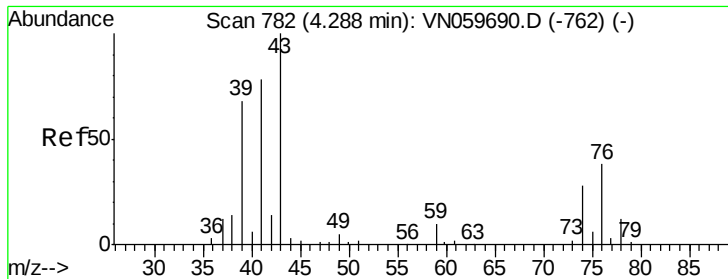
58 30.2 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

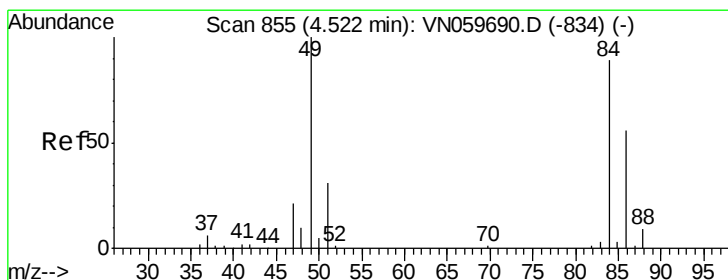
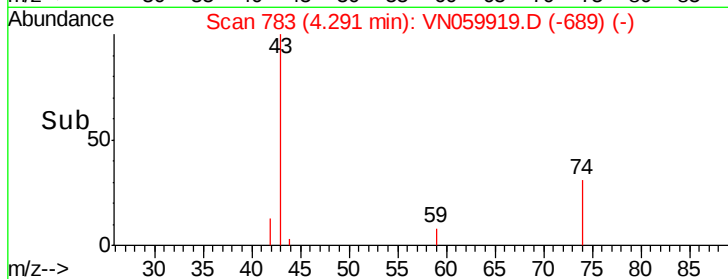
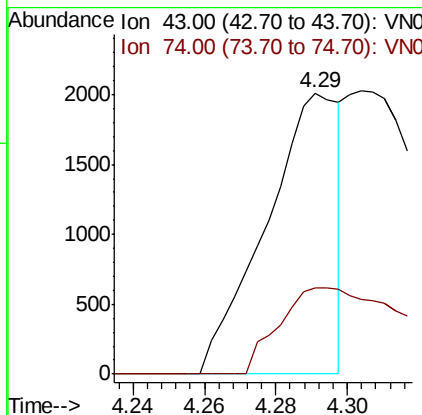
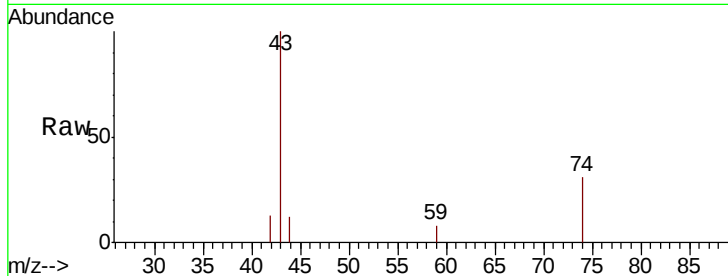




#18
Methyl Acetate
Concen: 1.068 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

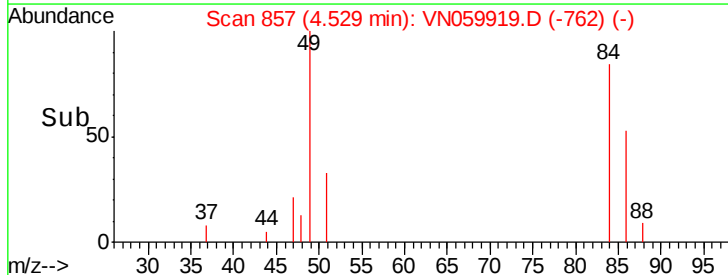
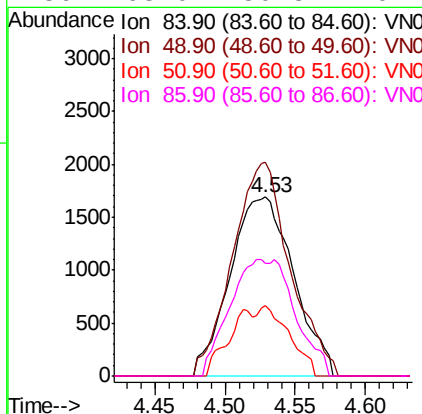
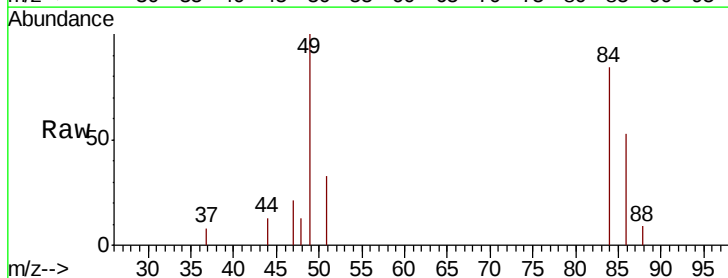
Instrument :
MSVOA_N
ClientSampleId :

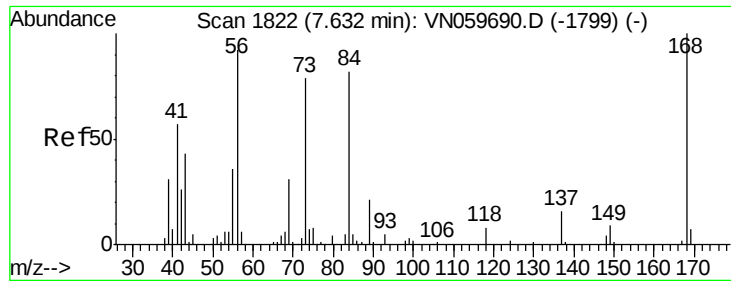
Tot Ion: 43 Resp: 2848
Ion Ratio Lower Upper
43 100
74 55.3 17.5 26.3#



#20
Methylene Chloride
Concen: 1.313 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

Tgt Ion: 84 Resp: 5315
Ion Ratio Lower Upper
84 100
49 119.3 106.6 160.0
51 39.7 31.9 47.9
86 63.0 50.8 76.2

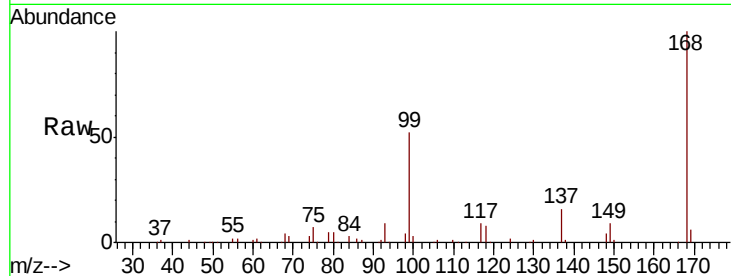




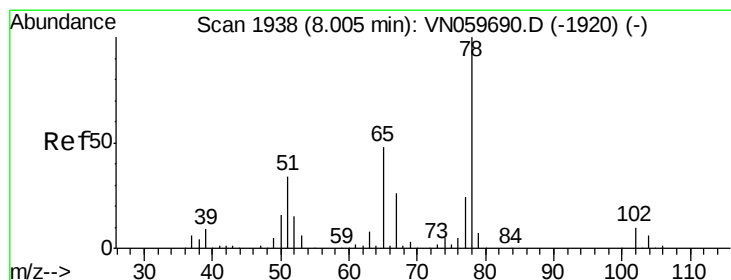
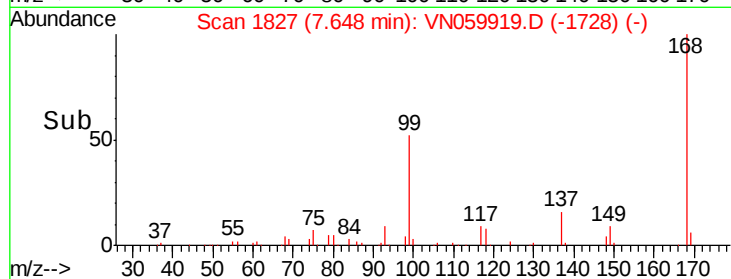
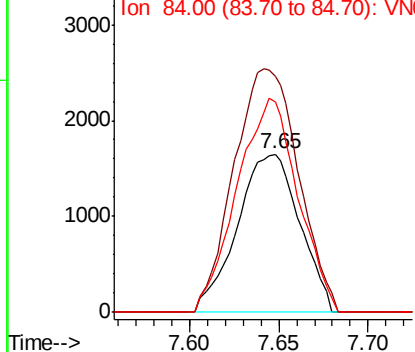
#31
Cyclohexane
Concen: 1.189 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.02 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4018
Ion Ratio Lower Upper
56 100
69 149.4 26.5 39.7#
84 133.2 65.3 97.9#

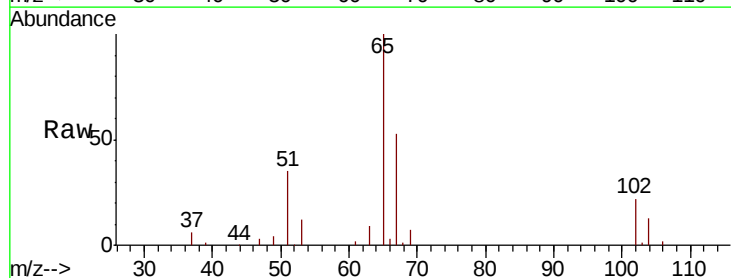


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

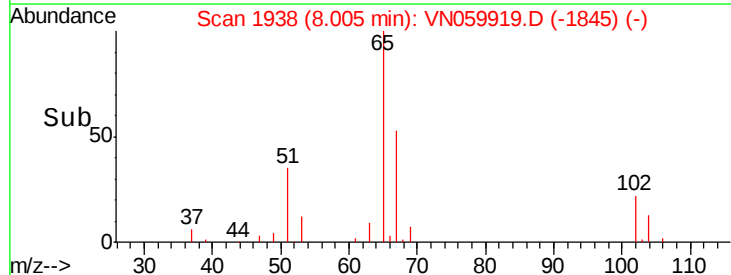
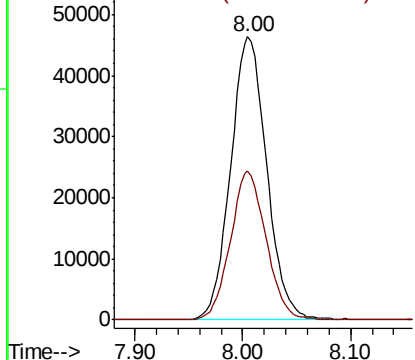


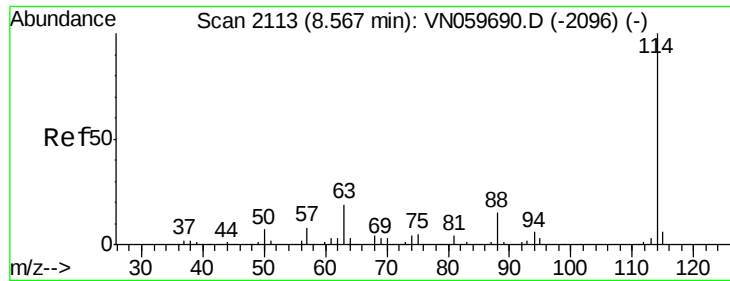
#33
1,2-Dichloroethane-d4
Concen: 47.287 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

Tgt Ion: 65 Resp: 107974
Ion Ratio Lower Upper
65 100
67 51.9 0.0 103.0



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

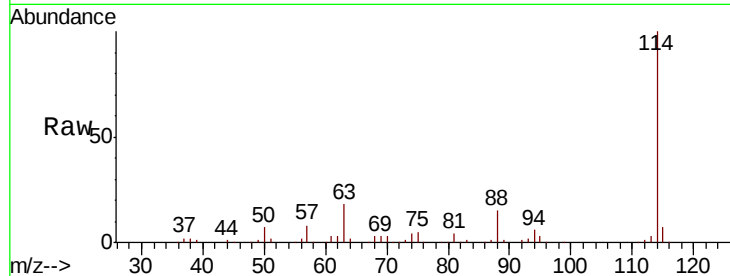




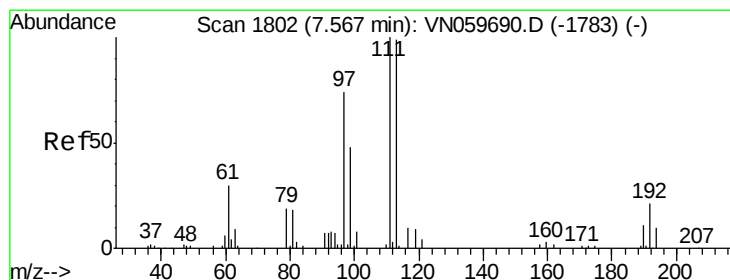
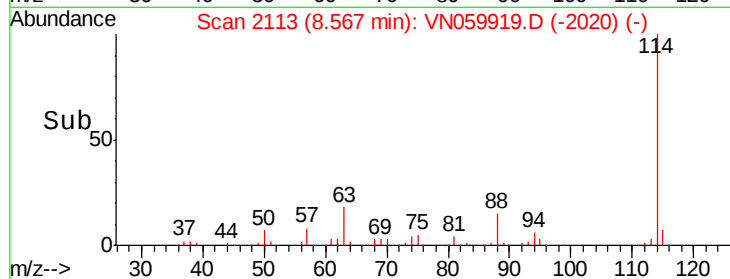
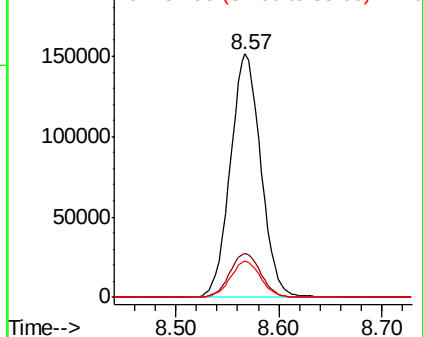
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059919.D
 Acq: 29 Jan 2020 17:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 311811
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 43.6
 88 15.0 0.0 31.4

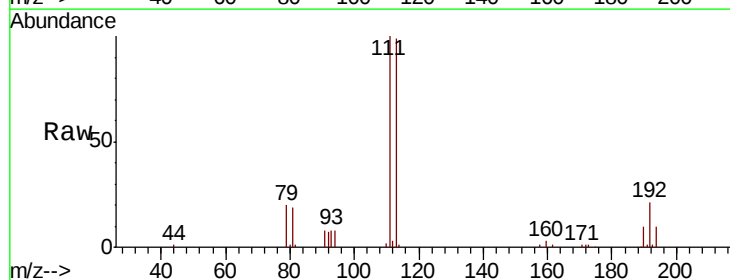


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

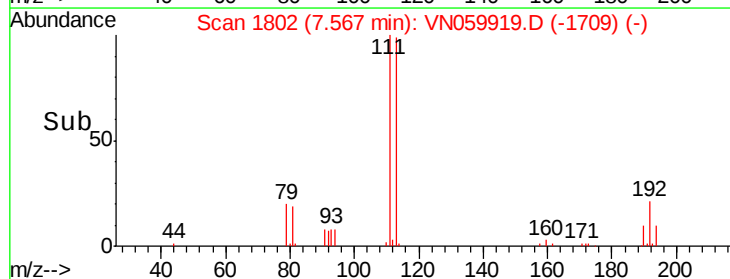
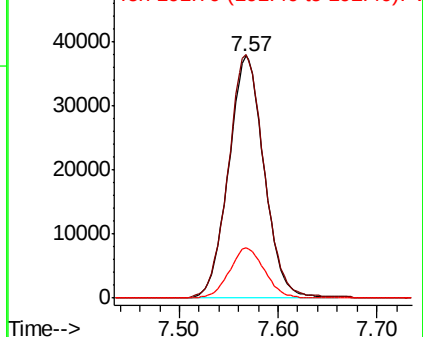


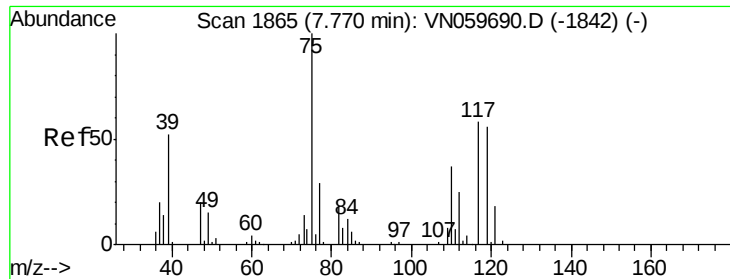
#35
 Dibromofluoromethane
 Concen: 50.924 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059919.D
 Acq: 29 Jan 2020 17:54

Tgt Ion:113 Resp: 94691
 Ion Ratio Lower Upper
 113 100
 111 100.9 83.5 125.3
 192 20.4 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: 5.334 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Instrument :
MSVOA_N
ClientSampleId :

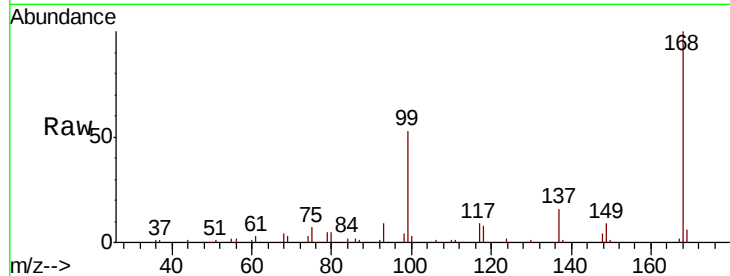
Tot Ion: 75 Resp: 14483

Ion Ratio Lower Upper

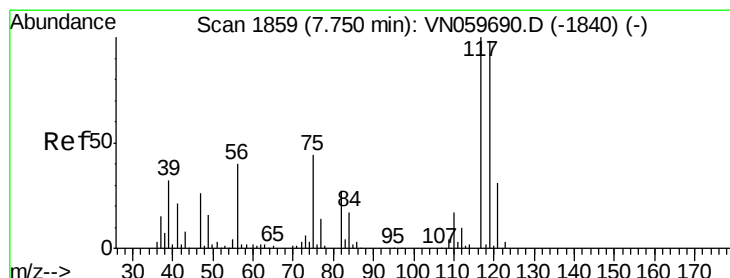
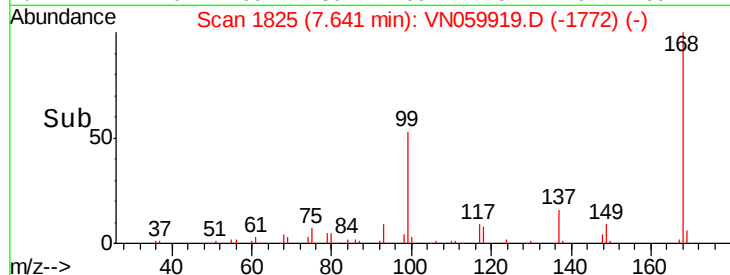
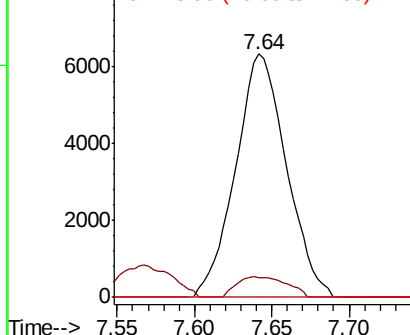
75 100

110 8.2 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: 6.335 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

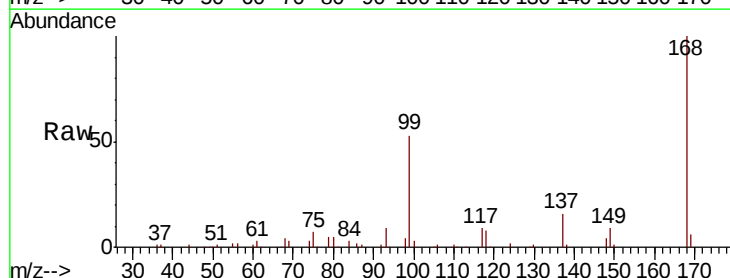
Tgt Ion: 117 Resp: 18713

Ion Ratio Lower Upper

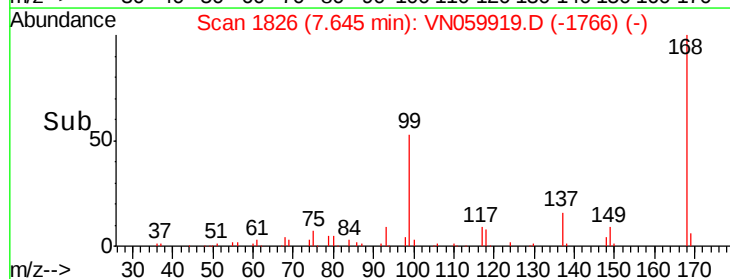
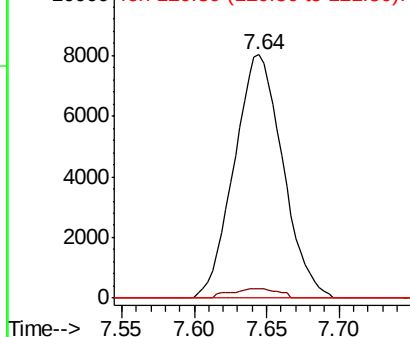
117 100

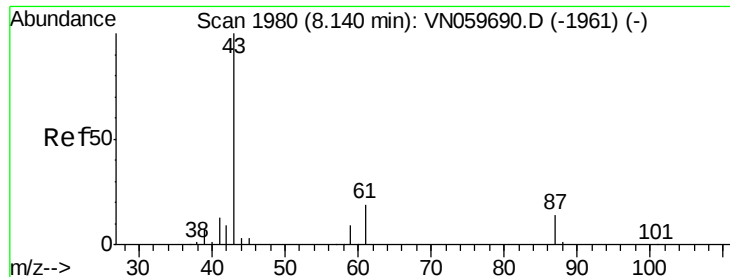
119 4.0 76.5 114.7#

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: 9.728 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

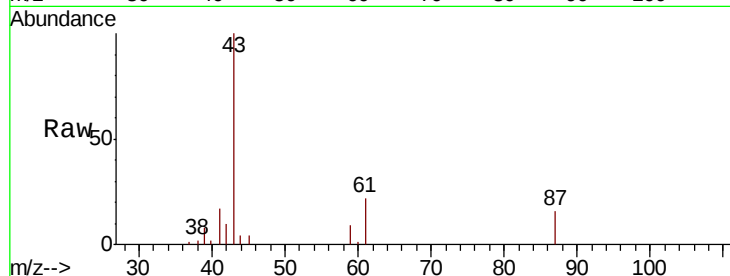
Tot Ion: 43 Resp: 42616

Ion Ratio Lower Upper

43 100

61 20.5 20.2 30.2

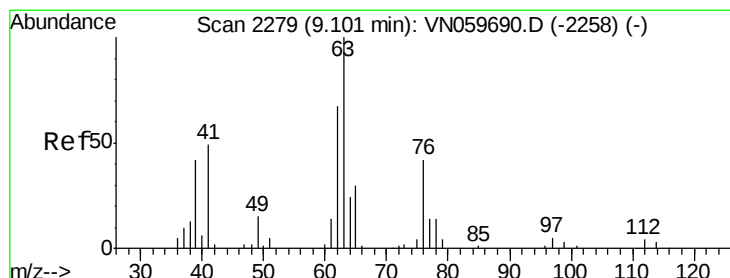
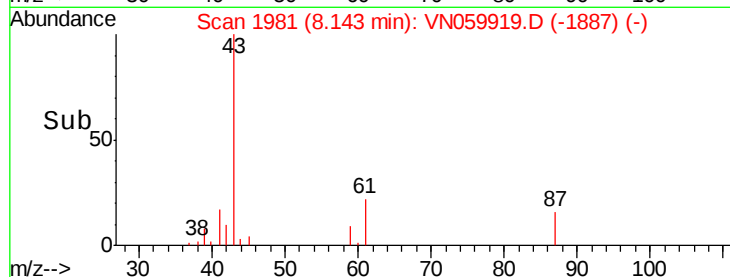
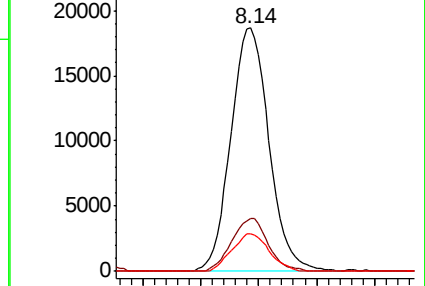
87 15.1 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059919.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN059919.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN059919.D (-1987) (-)



#45

1,2-Dichloropropane

Concen: 0.409 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059919.D

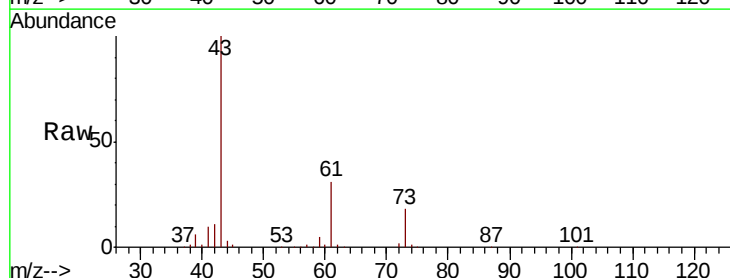
Acq: 29 Jan 2020 17:54

Tgt Ion: 63 Resp: 820

Ion Ratio Lower Upper

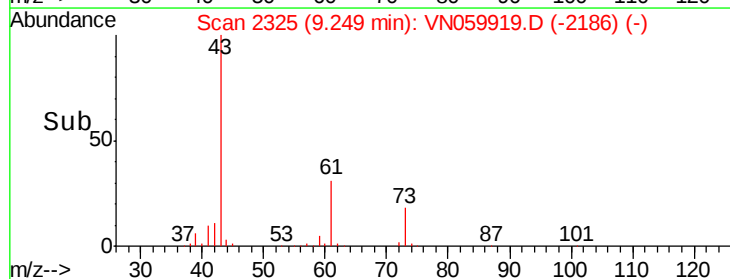
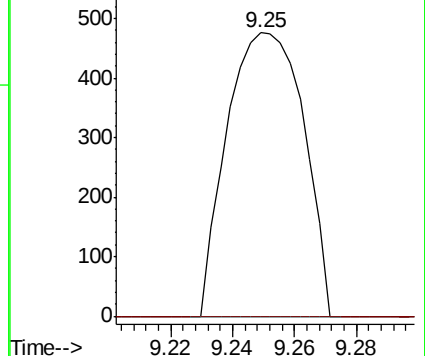
63 100

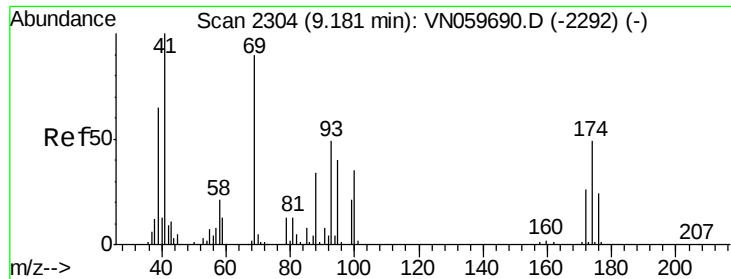
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059919.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059919.D (-2186) (-)

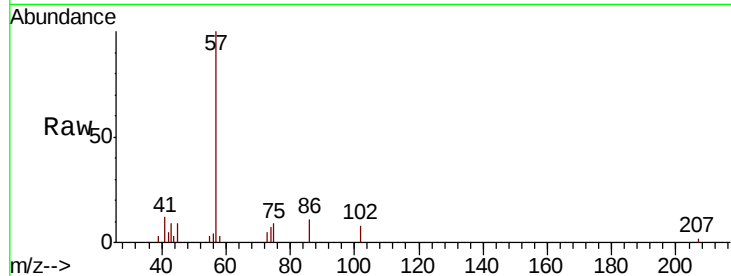




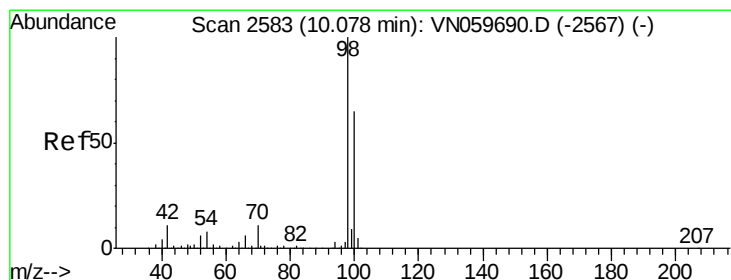
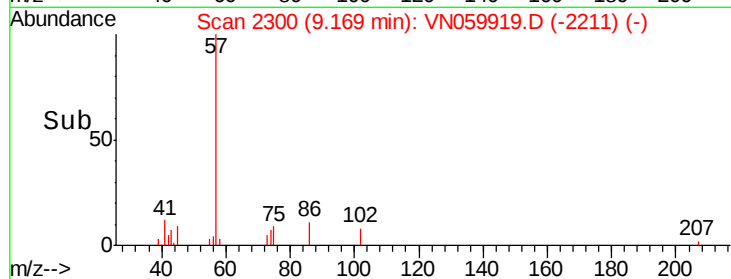
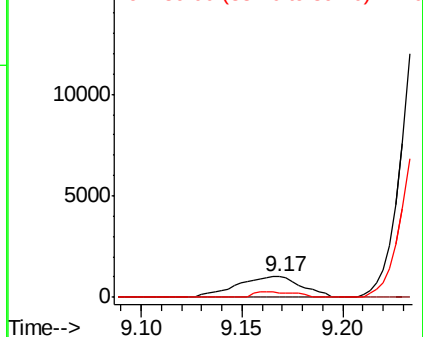
#48
Methvl methacrylate
Concen: 1.152 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.01 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2258
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

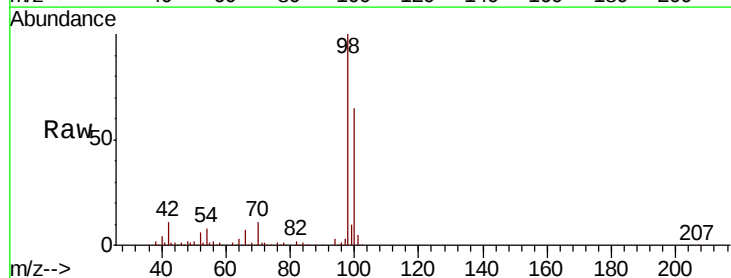


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

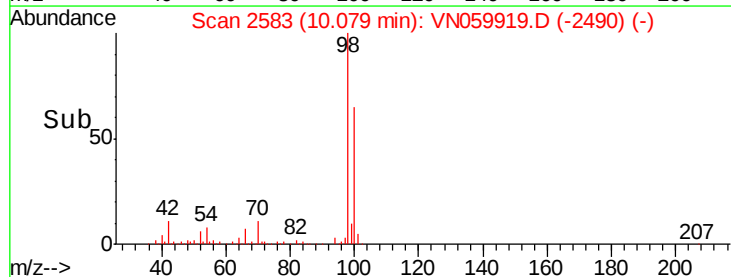
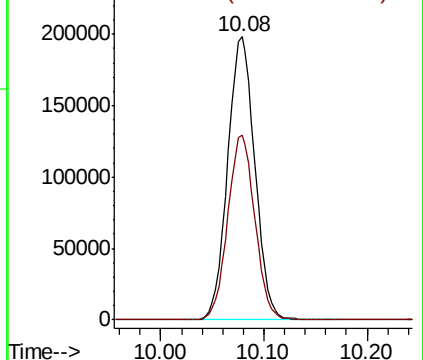


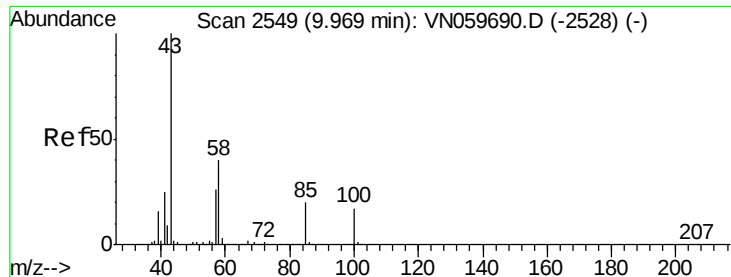
#50
Toluene-d8
Concen: 50.643 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

Tgt Ion: 98 Resp: 364861
Ion Ratio Lower Upper
98 100
100 64.8 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: 1.046 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Instrument :

MSVOA_N

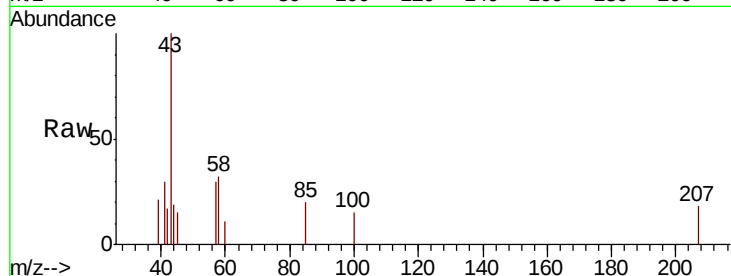
ClientSampleId :

Tot Ion: 43 Resp: 2649

Ion Ratio Lower Upper

43 100

58 35.0 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059919.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN059919.D (-2456) (-)

8000

6000

4000

2000

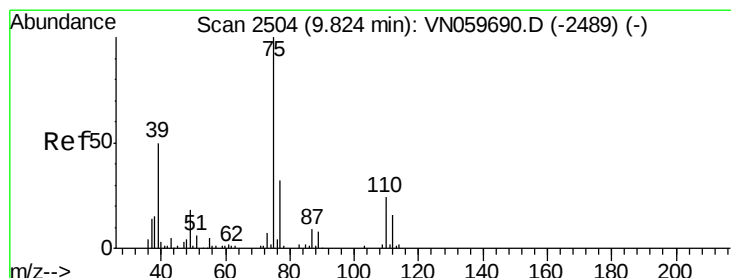
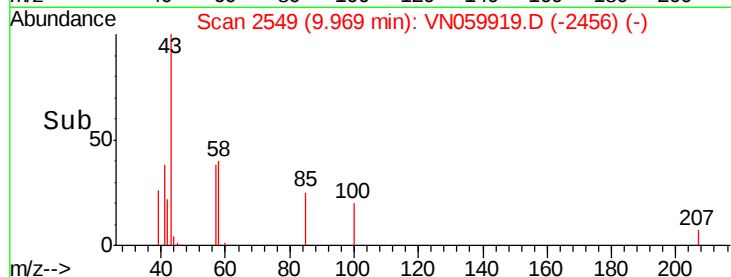
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.256 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

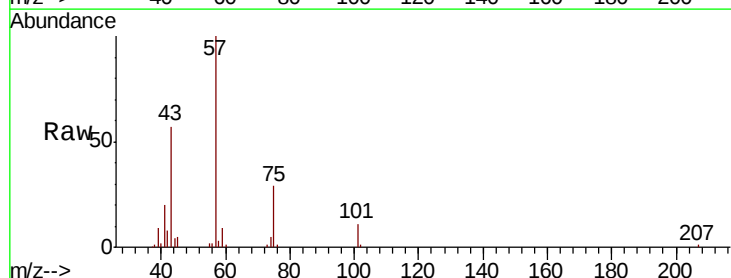
Tgt Ion: 75 Resp: 20938

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 32.5 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN059919.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN059919.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN059919.D (-2411) (-)

15000

10000

5000

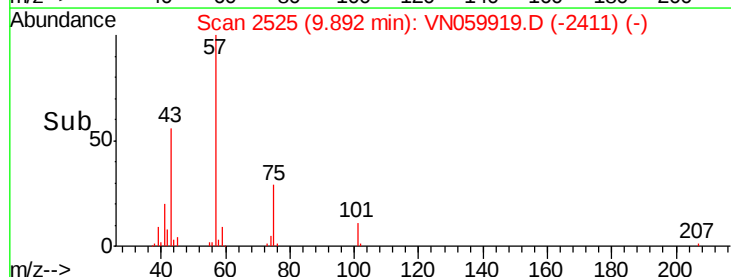
0

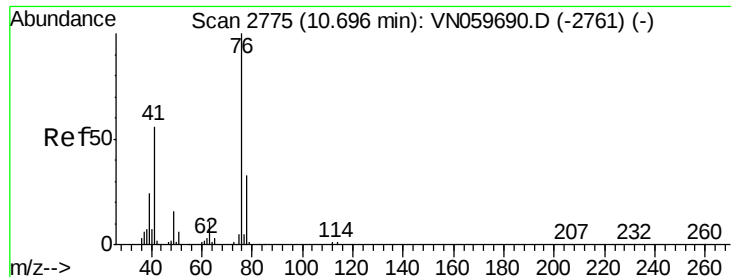
9.85

9.89

9.95

Time-->





#57

1,3-Dichloropropane

Concen: 1.116 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Instrument :

MSVOA_N

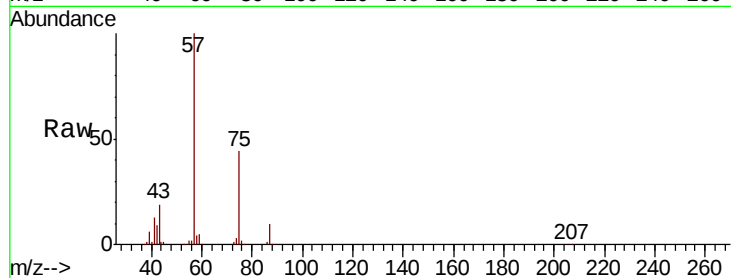
ClientSampled :

Tot Ion: 76 Resp: 3591

Ion Ratio Lower Upper

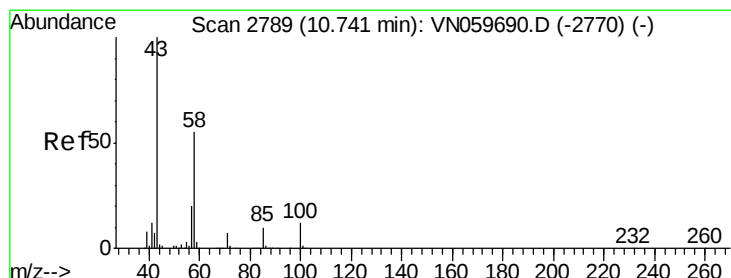
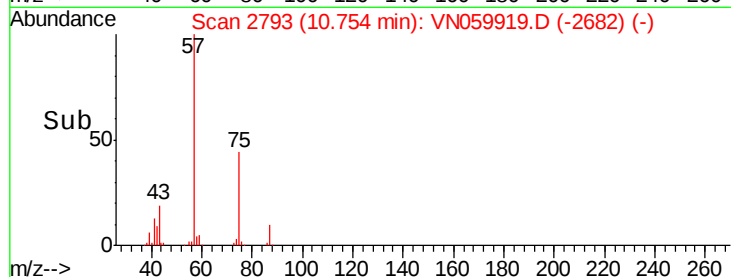
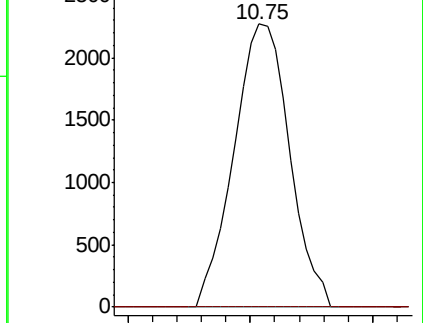
76 100

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: 24.506 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059919.D

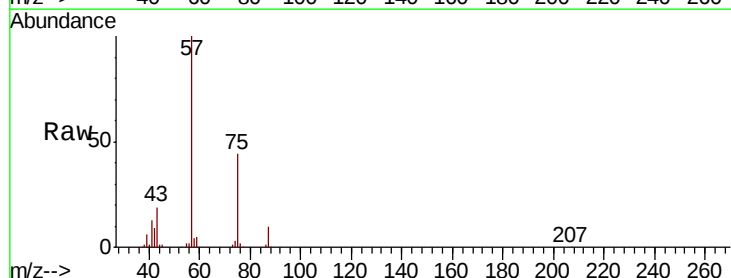
Acq: 29 Jan 2020 17:54

Tgt Ion: 43 Resp: 45717

Ion Ratio Lower Upper

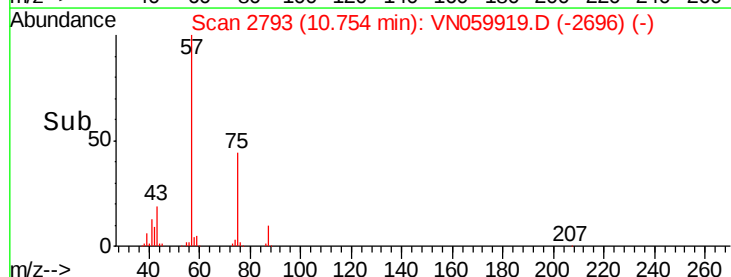
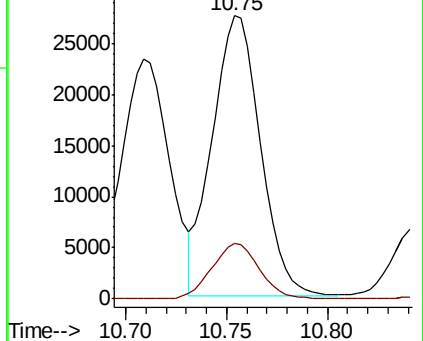
43 100

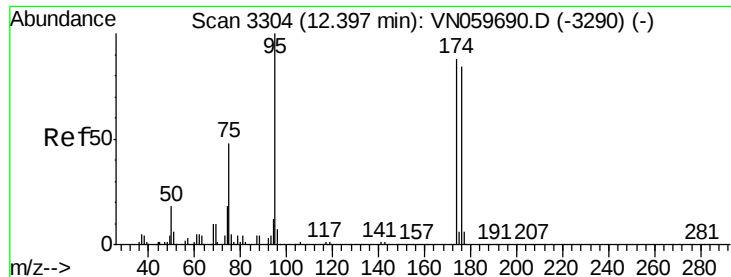
58 19.3 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

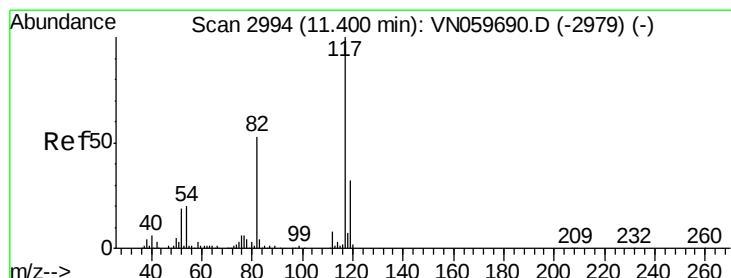
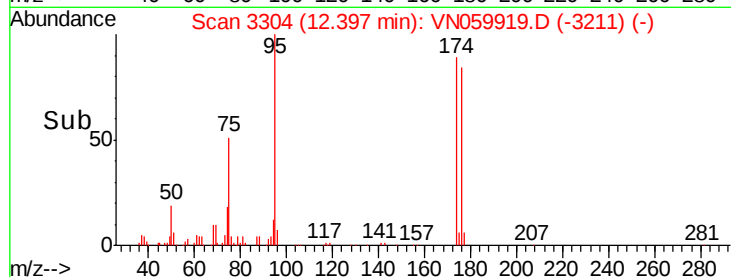
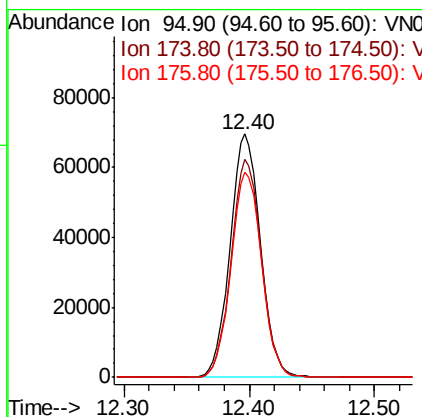
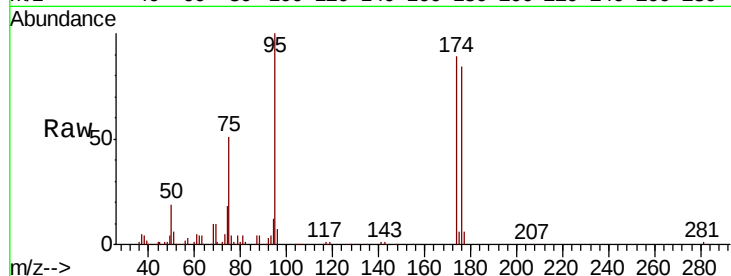




#62
4-Bromofluorobenzene
Concen: 45.166 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

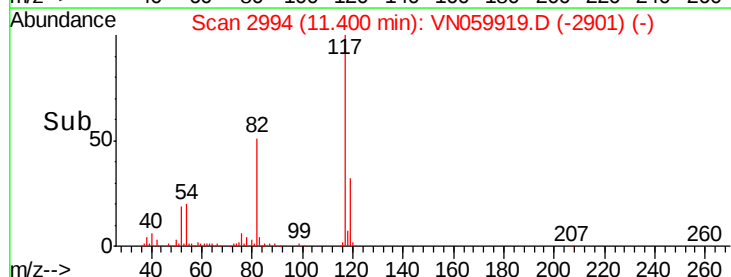
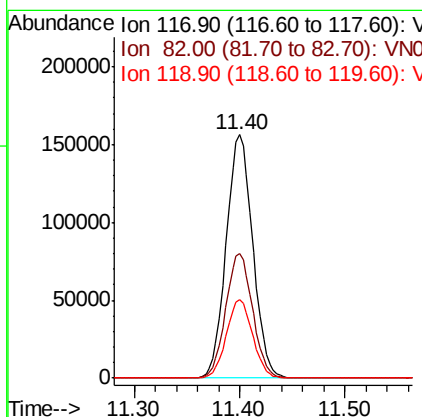
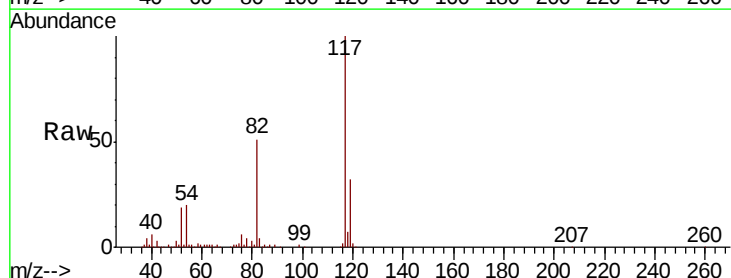
Instrument :
MSVOA_N
ClientSampleId :

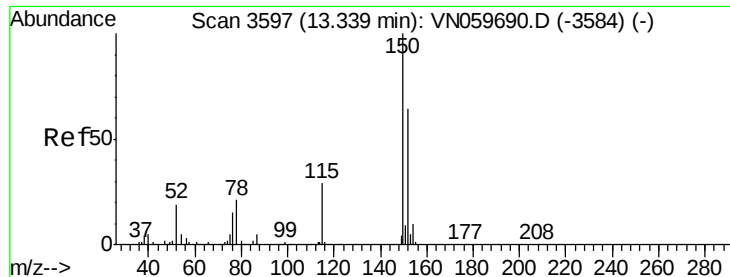
Tot Ion: 95 Resp: 117307
Ion Ratio Lower Upper
95 100
174 89.1 0.0 151.4
176 85.0 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059919.D
Acq: 29 Jan 2020 17:54

Tgt Ion: 117 Resp: 272064
Ion Ratio Lower Upper
117 100
82 51.4 45.9 68.9
119 32.2 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

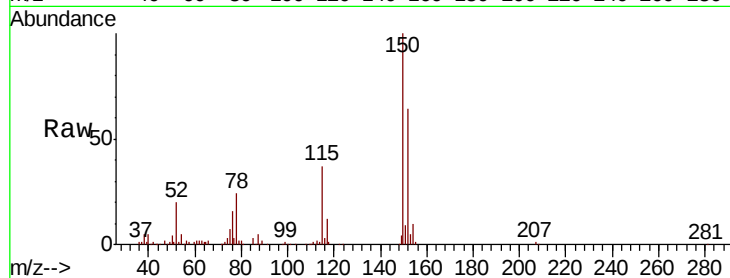
Tot Ion:152 Resp: 108519

Ion Ratio Lower Upper

152 100

115 57.1 30.3 90.9

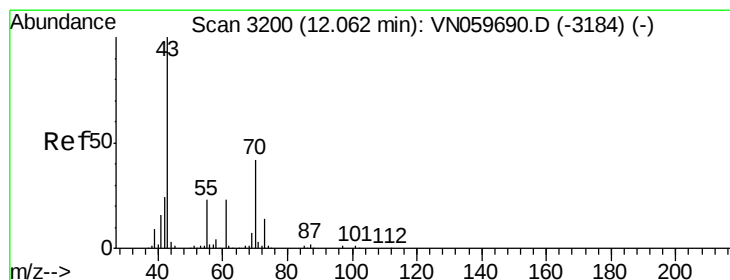
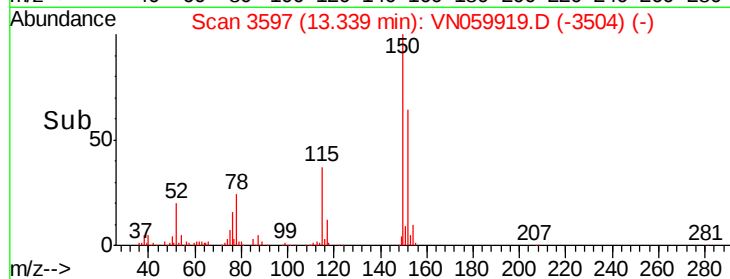
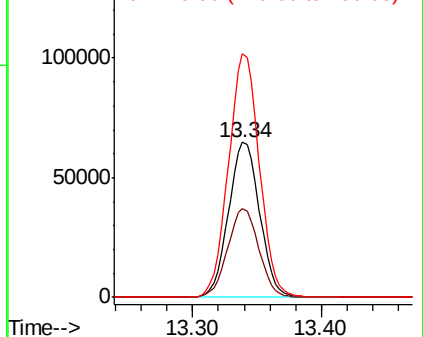
150 156.0 0.0 345.2



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: 0.663 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Tgt Ion: 43 Resp: 2047

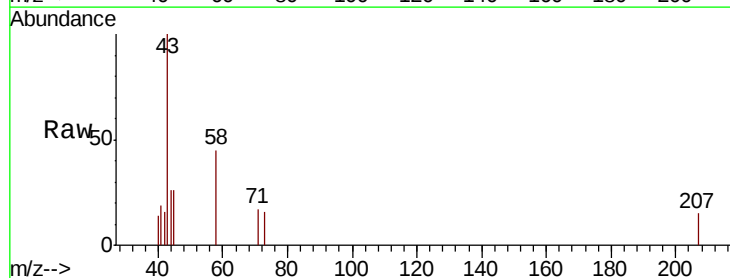
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

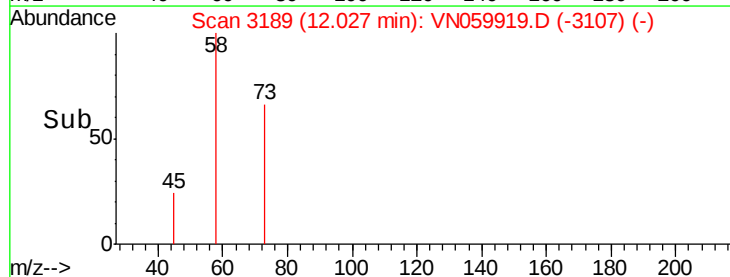
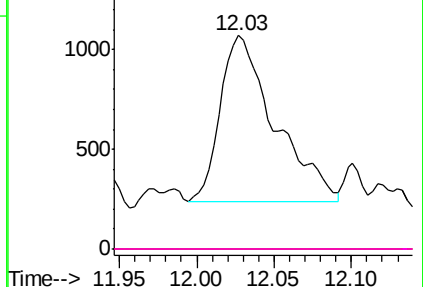


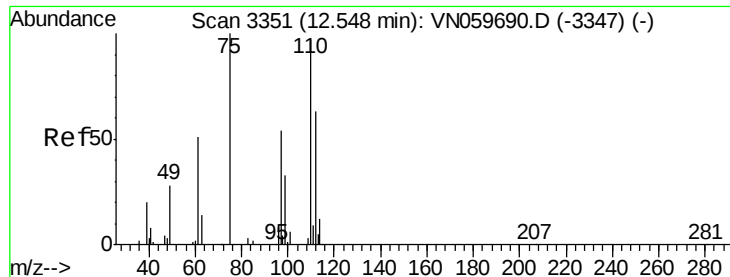
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 32.516 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Instrument :

MSVOA_N

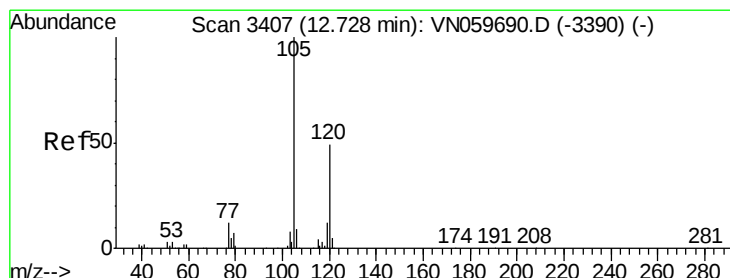
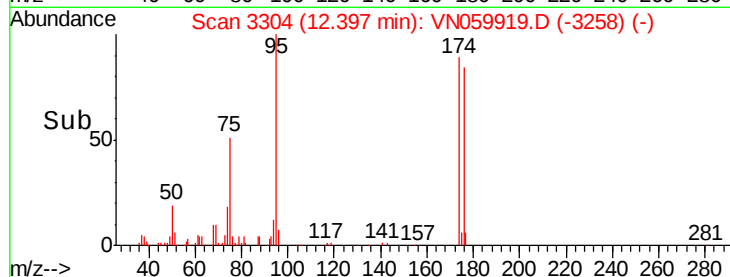
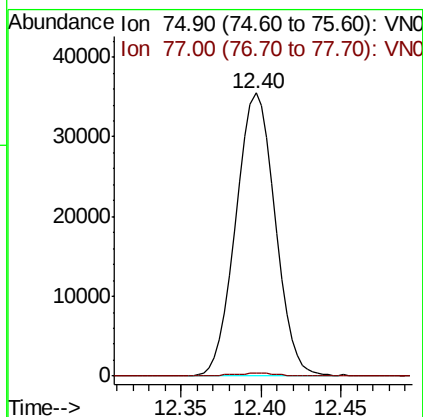
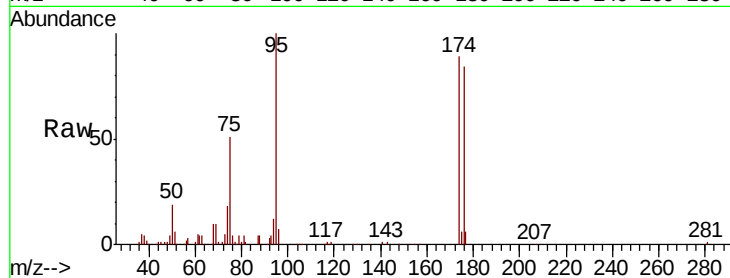
ClientSampled :

Tot Ion: 75 Resp: 59382

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.610 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059919.D

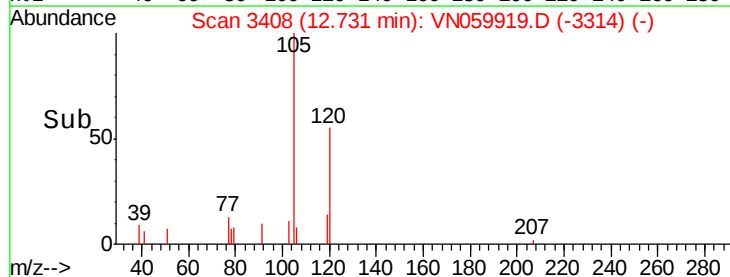
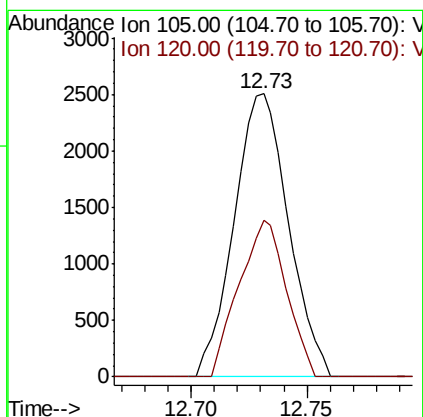
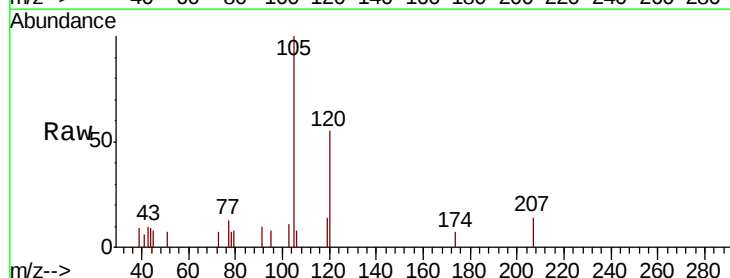
Acq: 29 Jan 2020 17:54

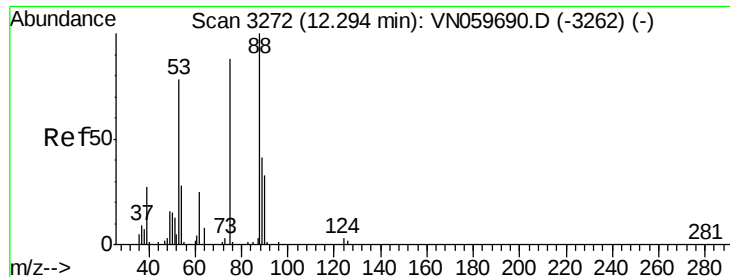
Tgt Ion: 105 Resp: 4080

Ion Ratio Lower Upper

105 100

120 48.2 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 69.827 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

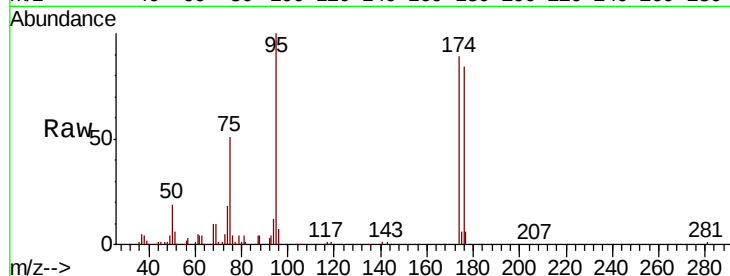
Tot Ion: 75 Resp: 59382

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

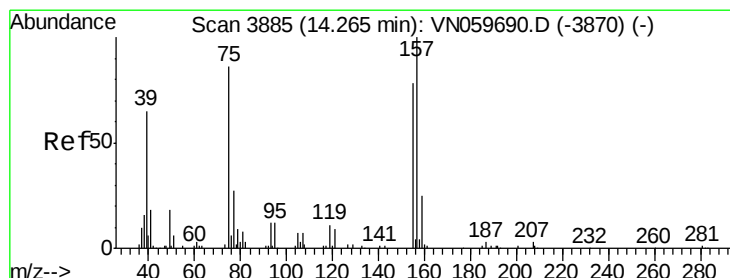
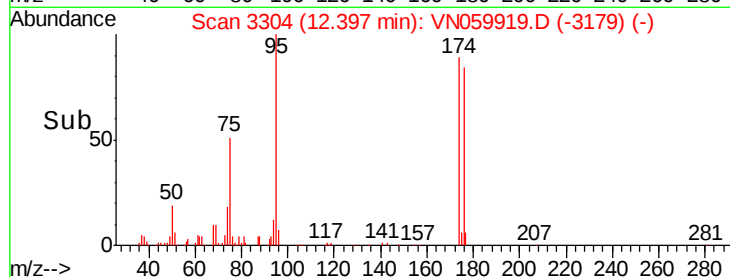
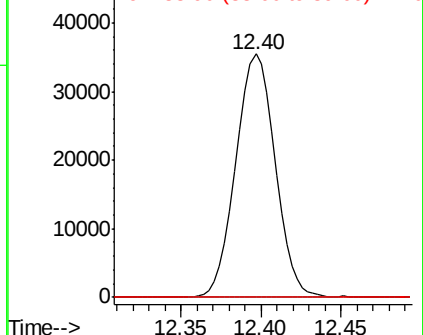
89 0.0 35.4 53.2#



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: 14.22 min Scan# 3871

Delta R.T. -0.04 min

Lab File: VN059919.D

Acq: 29 Jan 2020 17:54

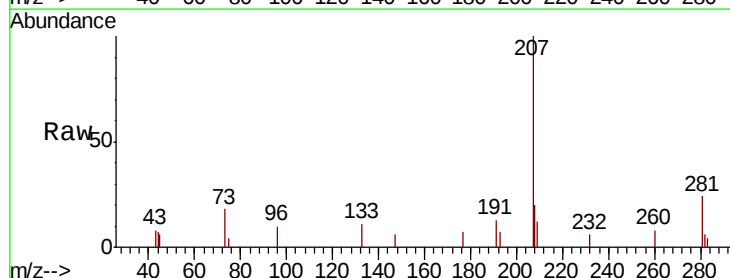
Tgt Ion: 75 Resp: 30

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

