

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012720\
 Data File : VN059879.D
 Acq On : 27 Jan 2020 17:49
 Operator : JC/MD
 Sample : PB126348ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 27 23:11:57 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	209481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	314510	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	284008	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	120690	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	109795	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
35) Dibromofluoromethane	7.56	113	95969	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
50) Toluene-d8	10.08	98	374340	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	12.40	95	127721	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	

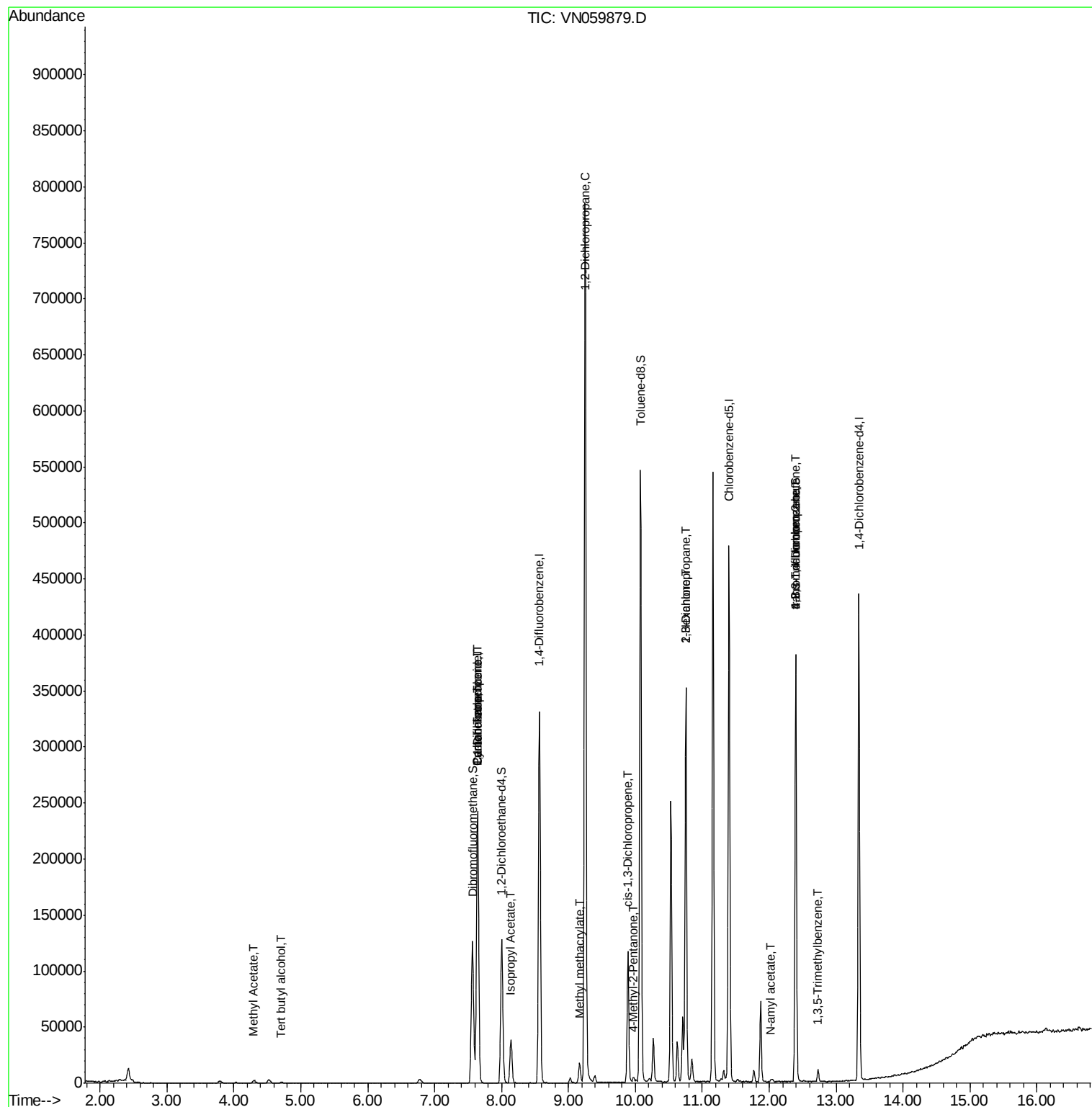
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	436	1.113	ug/l #	72
16) Acetone	3.78	43	3289	Below Cal	#	88
18) Methyl Acetate	4.30	43	4922	1.811	ug/l	99
20) Methylene Chloride	4.53	84	2548	Below Cal	#	72
31) Cyclohexane	7.64	56	3801	1.104	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14069	5.137	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19405	6.513	ug/l #	16
43) Isopropyl Acetate	8.14	43	46169	10.449	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	961	0.475	ug/l #	44
48) Methyl methacrylate	9.16	41	2450	1.240	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3117	1.220	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	22730	6.734	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3958	1.220	ug/l #	42
59) 2-Hexanone	10.75	43	48989	26.035	ug/l #	55
74) N-amyl acetate	12.03	43	2152	0.627	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	64121	31.570	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6455	0.867	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	64121	67.796	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	29	Below Cal	#	6

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

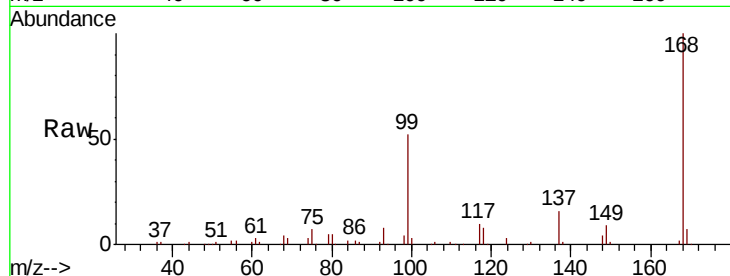
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 209481

Ion Ratio Lower Upper

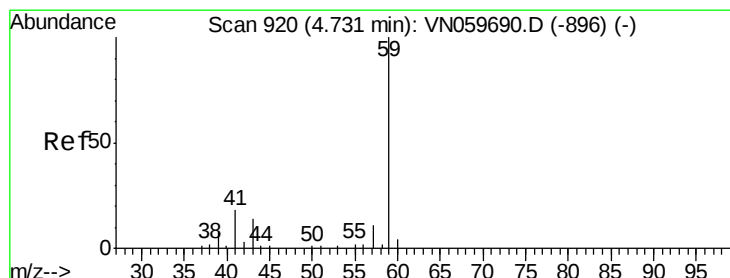
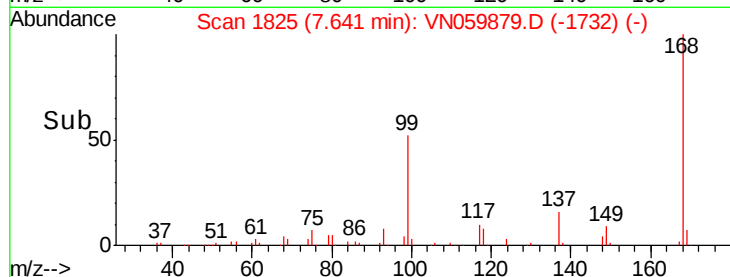
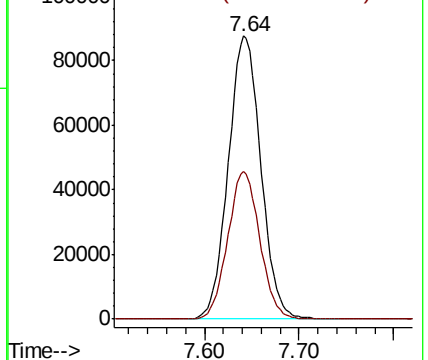
168 100

99 52.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 1.113 ug/l

RT: 4.71 min Scan# 913

Delta R.T. -0.02 min

Lab File: VN059879.D

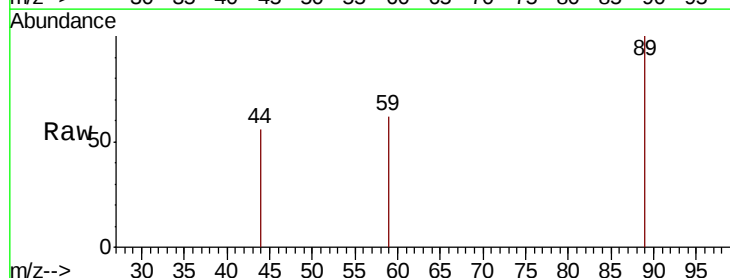
Acq: 27 Jan 2020 17:49

Tgt Ion: 59 Resp: 436

Ion Ratio Lower Upper

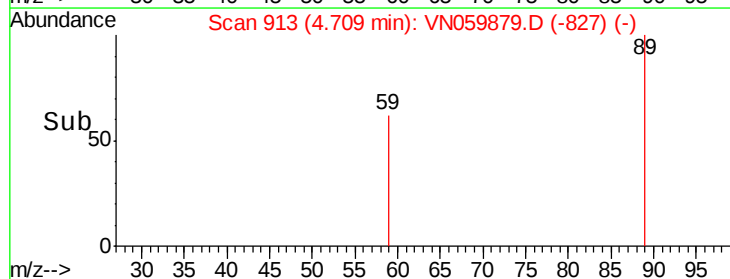
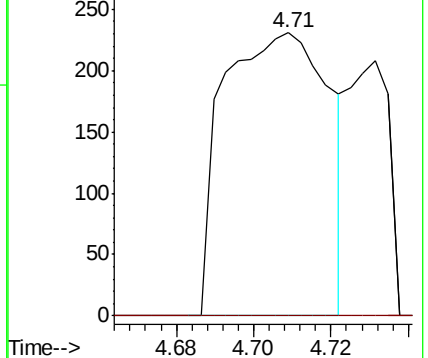
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

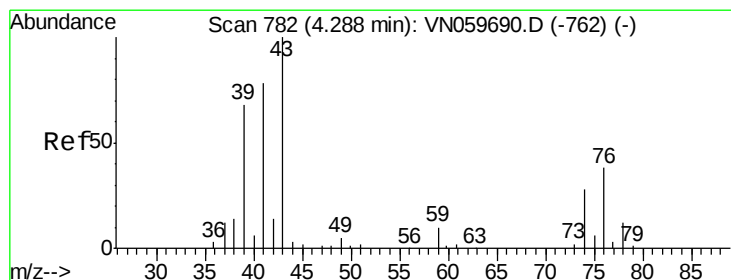
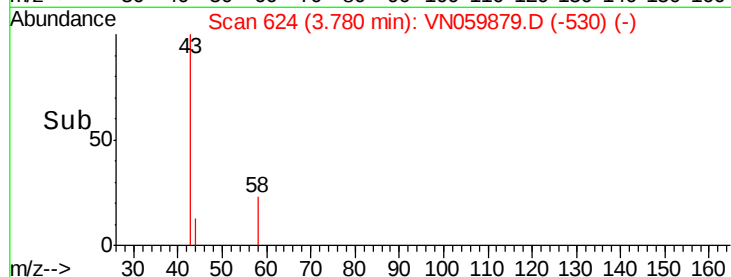
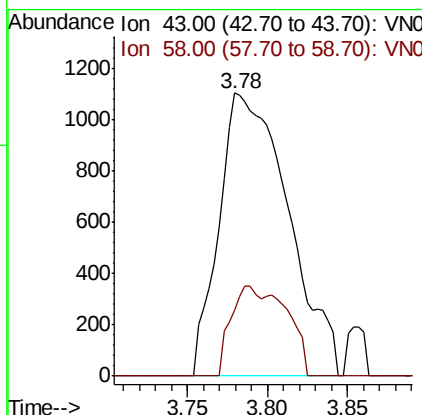
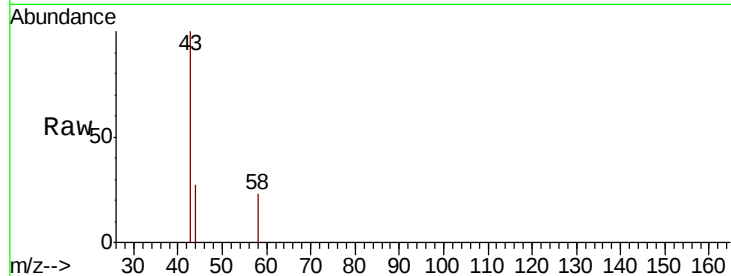




#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 624
Delta R.T. 0.00 min
Lab File: VN059879.D
Acq: 27 Jan 2020 17:49

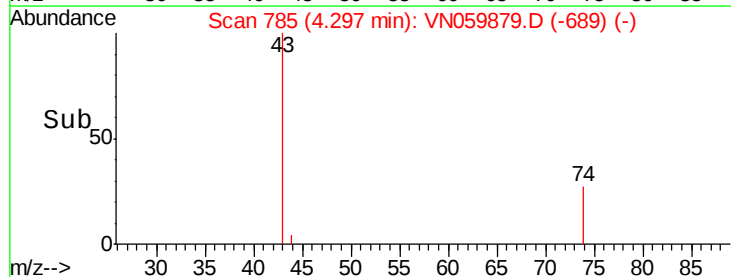
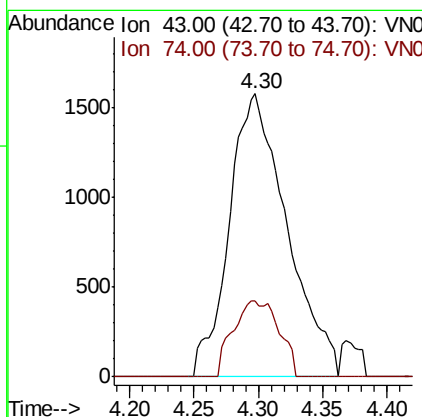
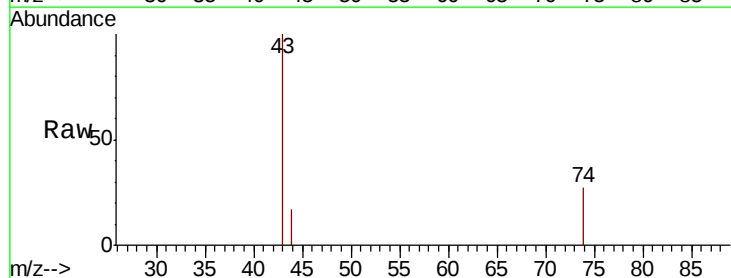
Instrument :
MSVOA_N
ClientSampled :

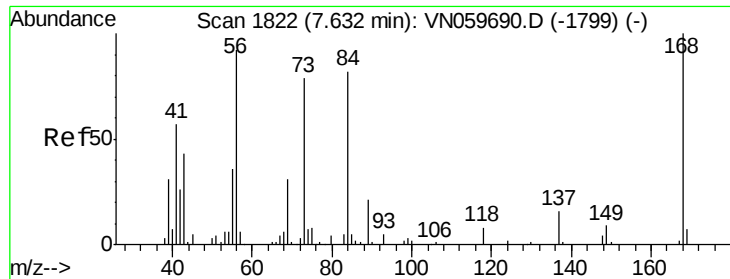
Tot Ion: 43 Resp: 3289
Ion Ratio Lower Upper
43 100
58 23.1 23.6 35.4#



#18
Methyl Acetate
Concen: 1.811 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059879.D
Acq: 27 Jan 2020 17:49

Tgt Ion: 43 Resp: 4922
Ion Ratio Lower Upper
43 100
74 21.3 17.5 26.3

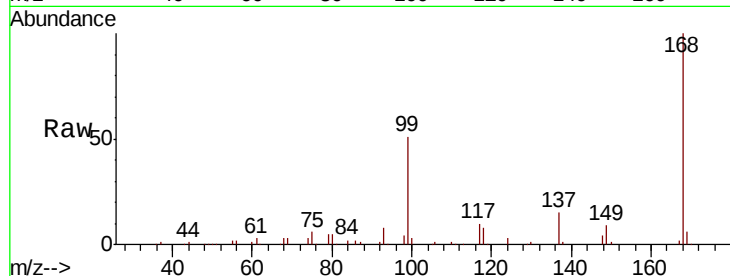




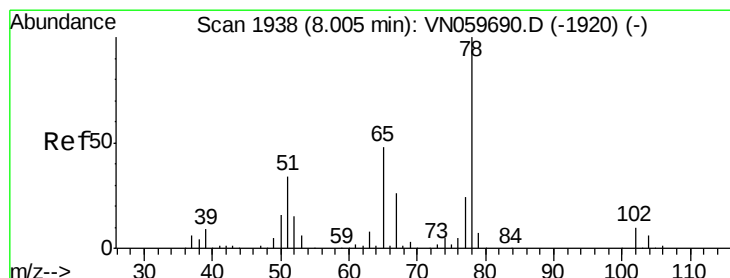
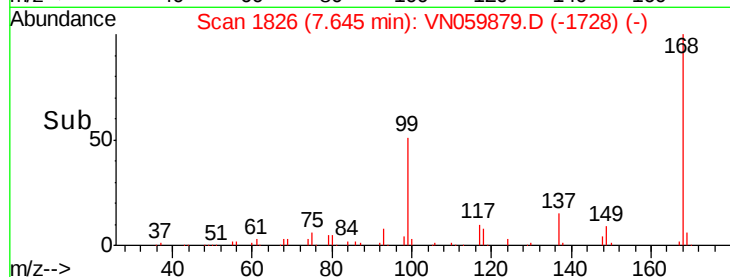
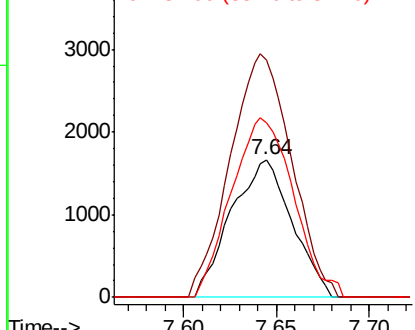
#31
Cyclohexane
Concen: 1.104 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059879.D
Acq: 27 Jan 2020 17:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3801
Ion Ratio Lower Upper
56 100
69 172.4 26.5 39.7#
84 126.6 65.3 97.9#

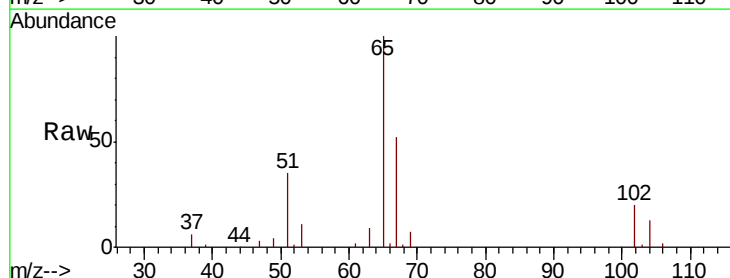


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

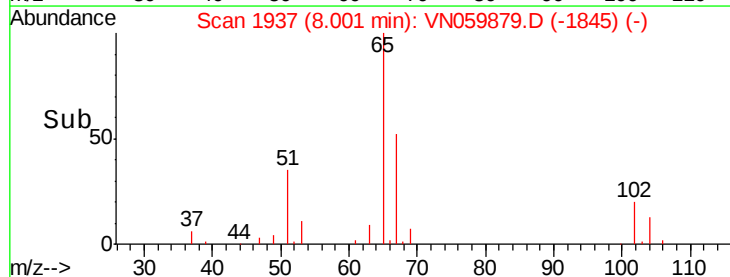
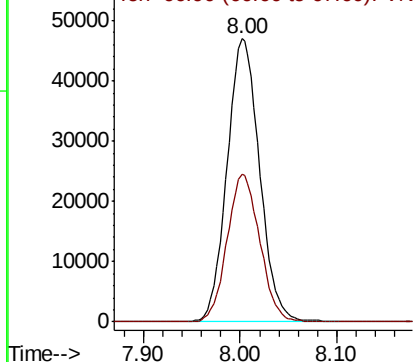


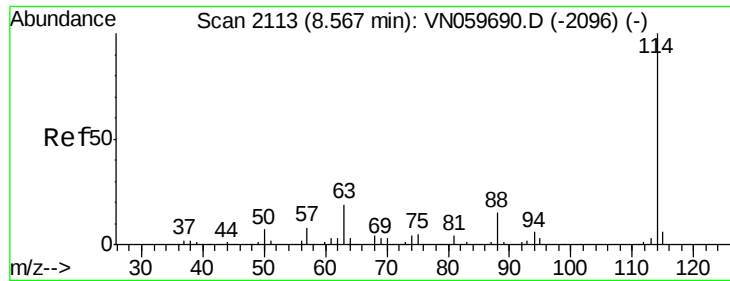
#33
1,2-Dichloroethane-d4
Concen: 47.196 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN059879.D
Acq: 27 Jan 2020 17:49

Tgt Ion: 65 Resp: 109795
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.0



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

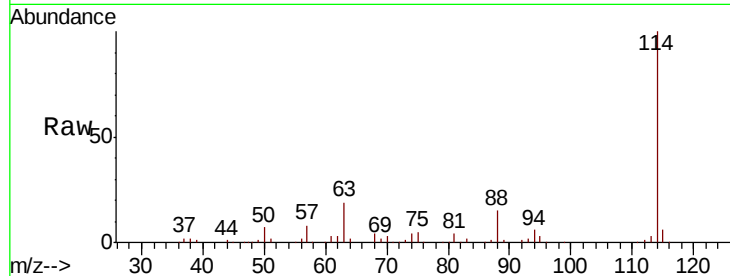




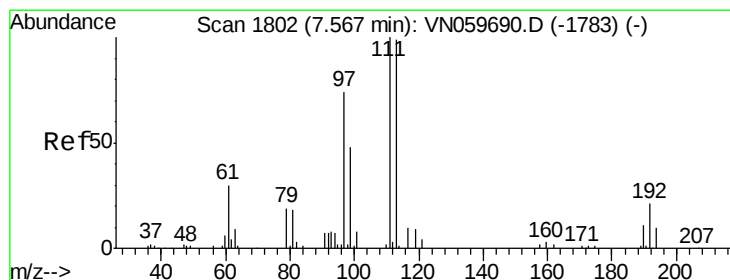
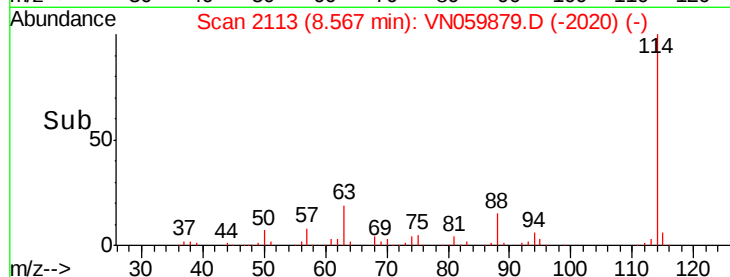
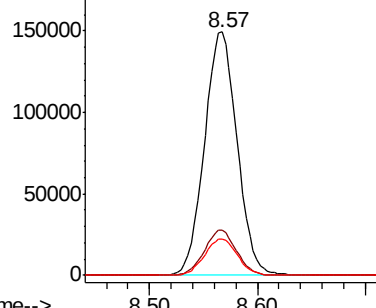
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059879.D
 Acq: 27 Jan 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 314510
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 43.6
 88 15.0 0.0 31.4

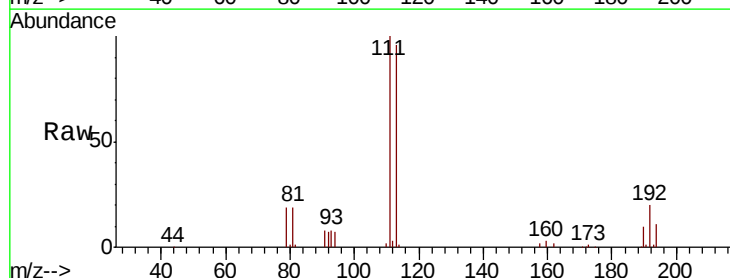


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

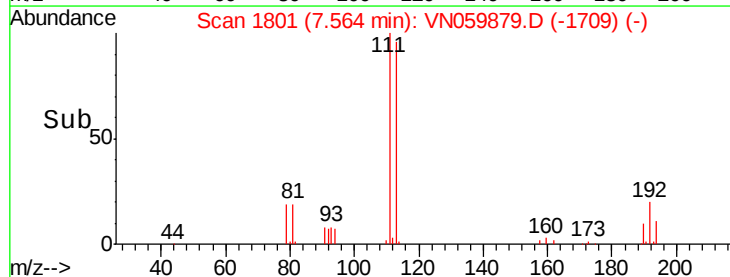
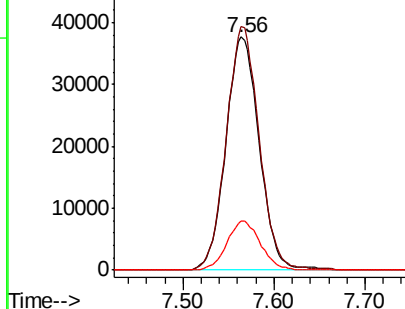


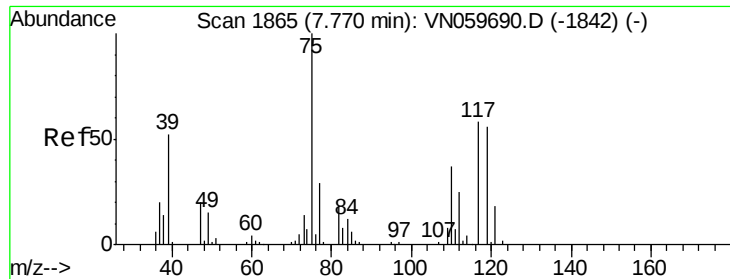
#35
 Dibromofluoromethane
 Concen: 51.168 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059879.D
 Acq: 27 Jan 2020 17:49

Tgt Ion:113 Resp: 95969
 Ion Ratio Lower Upper
 113 100
 111 103.1 83.5 125.3
 192 20.9 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

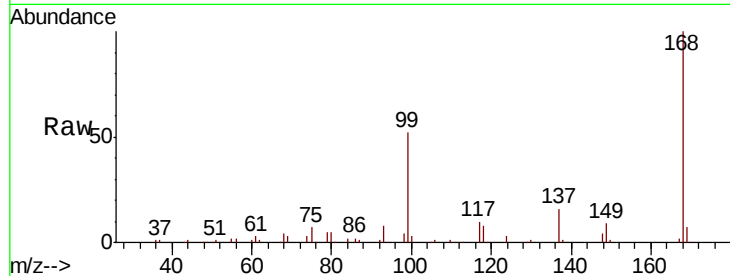




#36
 1,1-Dichloropropene
 Concen: 5.137 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059879.D
 Acq: 27 Jan 2020 17:49

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	14069
Ion Ratio	100	Lower	Upper
75	100		
110	8.9	16.6	49.7#
77	0.0	25.1	37.7#

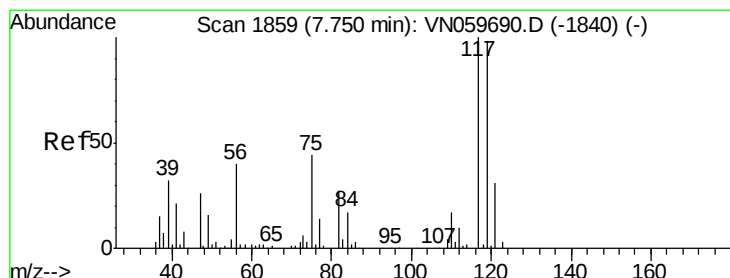
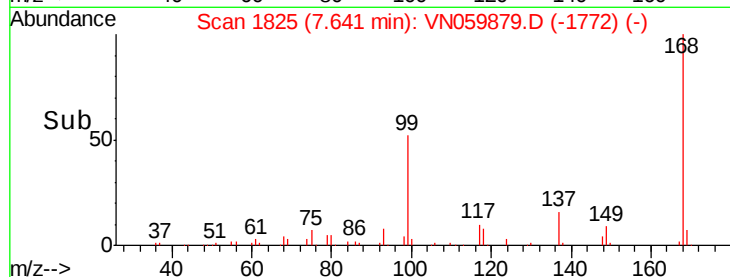
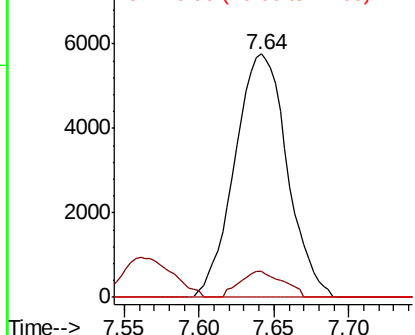


Abundance

Ion 74.90 (74.60 to 75.60): VN059690.D (-1842) (-)

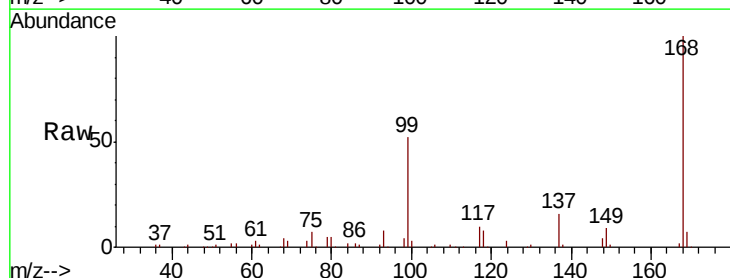
Ion 109.90 (109.60 to 110.60): VN059690.D (-1842) (-)

Ion 76.90 (76.60 to 77.60): VN059690.D (-1842) (-)



#38
 Carbon Tetrachloride
 Concen: 6.513 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059879.D
 Acq: 27 Jan 2020 17:49

Tgt Ion	117	Resp	19405
Ion Ratio	100	Lower	Upper
117	100		
119	4.7	76.5	114.7#
121	0.0	25.1	37.7#

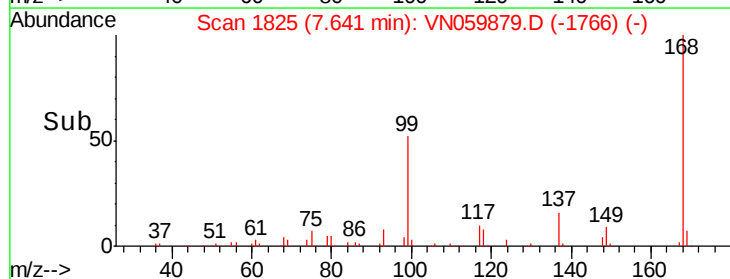
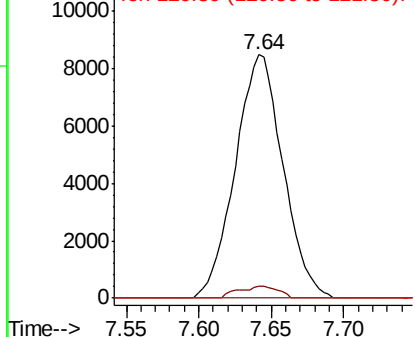


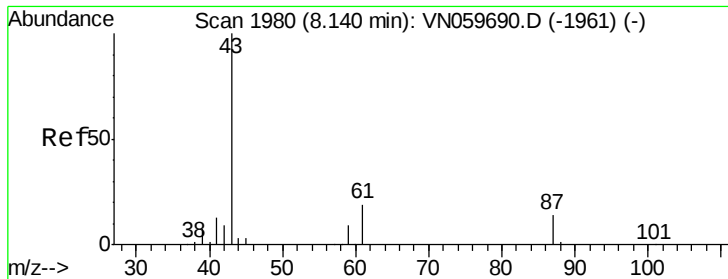
Abundance

Ion 116.80 (116.50 to 117.50): VN059690.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN059690.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN059690.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 10.449 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

Instrument :

MSVOA_N

ClientSampled :

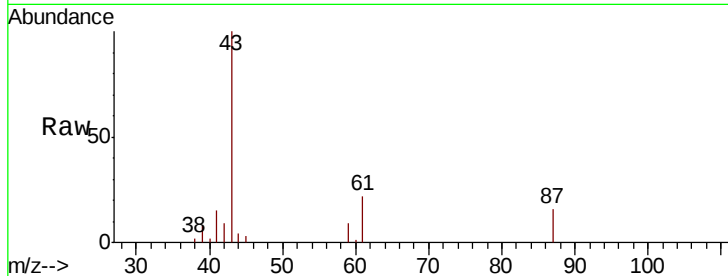
Tot Ion: 43 Resp: 46169

Ion Ratio Lower Upper

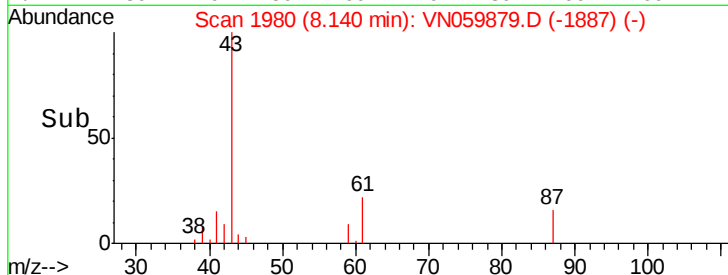
43 100

61 21.2 20.2 30.2

87 15.2 9.5 14.3#



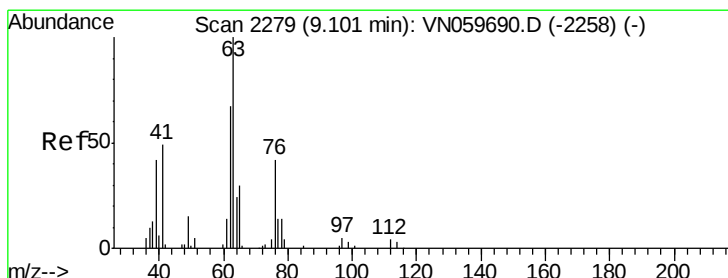
Abundance Ion 43.00 (42.70 to 43.70): VN059879.D (-1887) (-)



Ion 61.00 (60.70 to 61.70): VN059879.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN059879.D (-1887) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.475 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059879.D

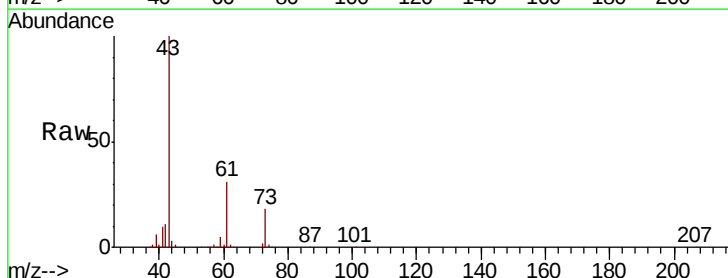
Acq: 27 Jan 2020 17:49

Tgt Ion: 63 Resp: 961

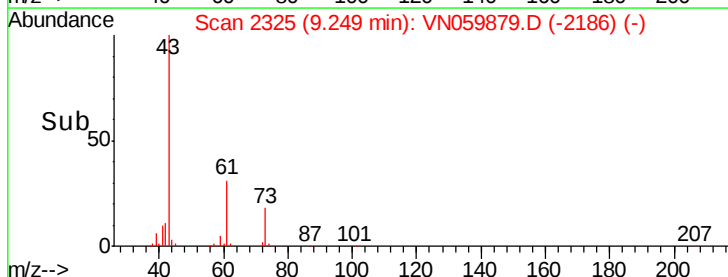
Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#

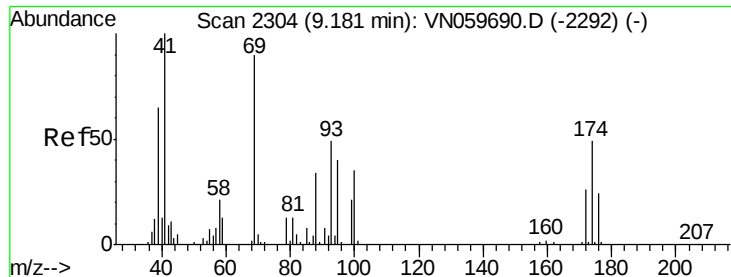


Abundance Ion 62.90 (62.60 to 63.60): VN059879.D (-2186) (-)



Ion 64.90 (64.60 to 65.60): VN059879.D (-2186) (-)

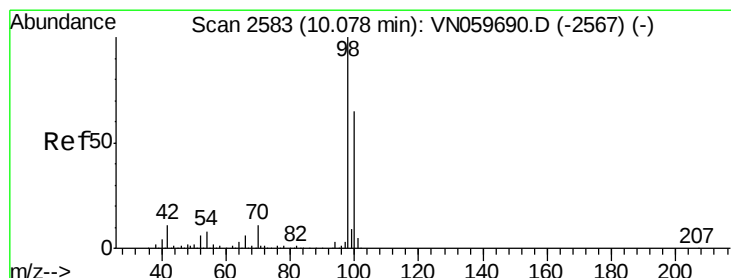
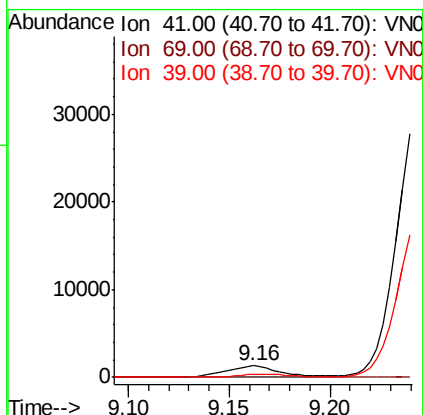
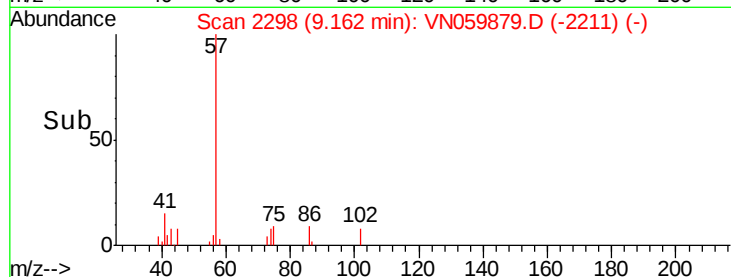
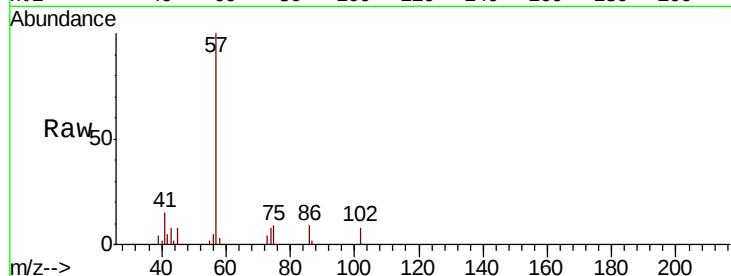
Time-->



#48
Methvl methacrylate
Concen: 1.240 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059879.D
Acq: 27 Jan 2020 17:49

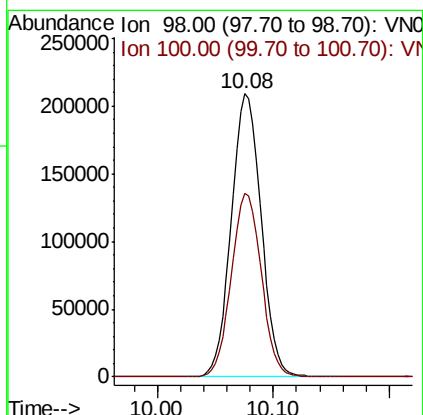
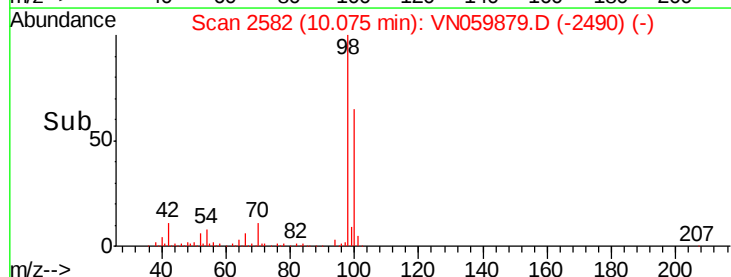
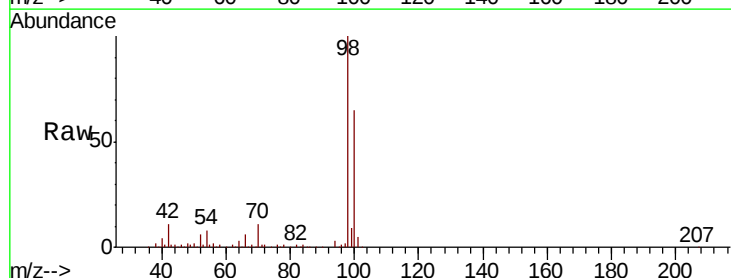
Instrument :
MSVOA_N
ClientSampleId :

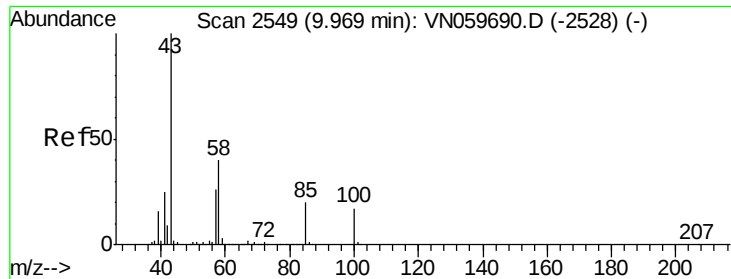
Tot Ion: 41 Resp: 2450
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.513 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN059879.D
Acq: 27 Jan 2020 17:49

Tgt Ion: 98 Resp: 374340
Ion Ratio Lower Upper
98 100
100 65.0 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.220 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

Instrument :

MSVOA_N

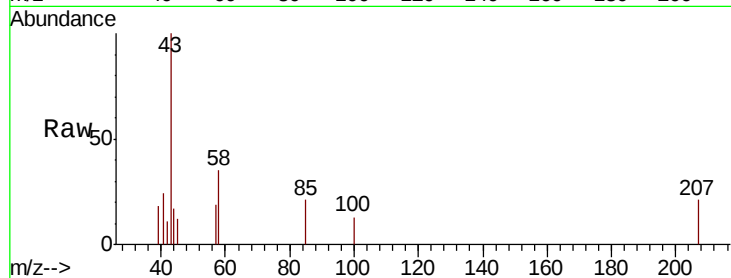
ClientSampleId :

Tot Ion: 43 Resp: 3117

Ion Ratio Lower Upper

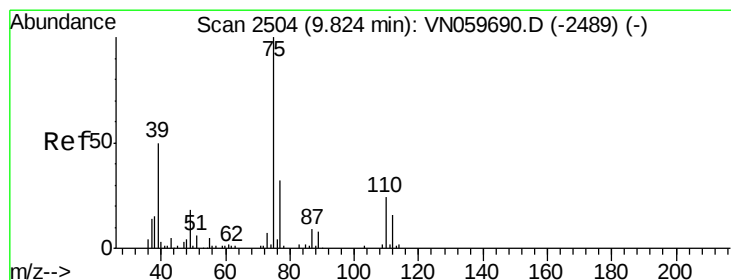
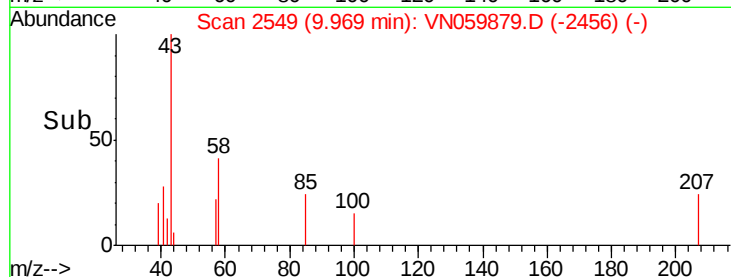
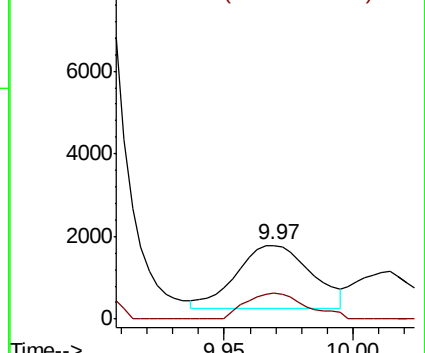
43 100

58 33.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.734 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

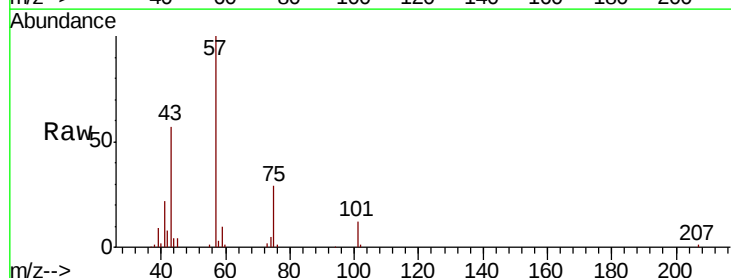
Tgt Ion: 75 Resp: 22730

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

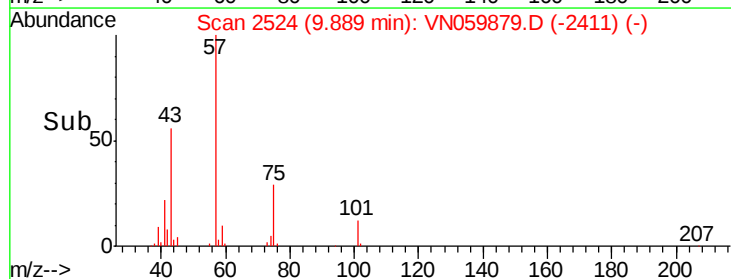
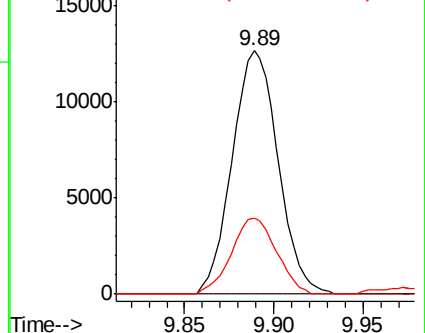
39 31.4 46.1 69.1#

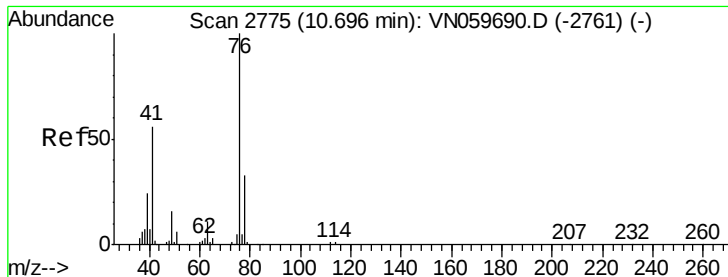


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

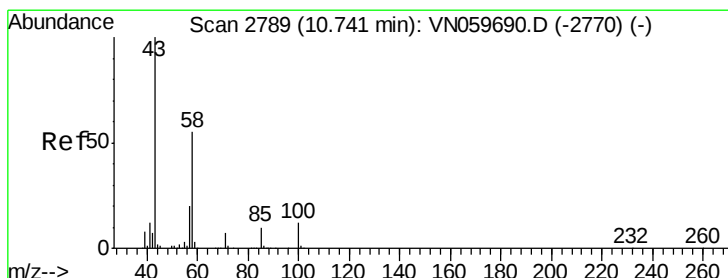
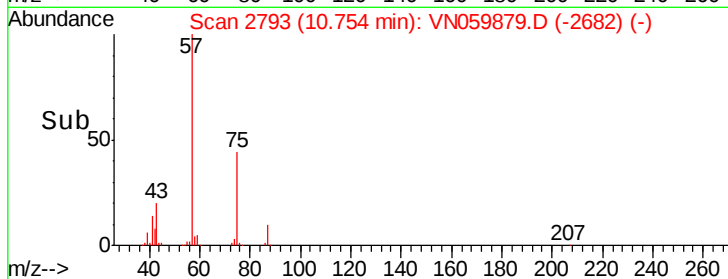
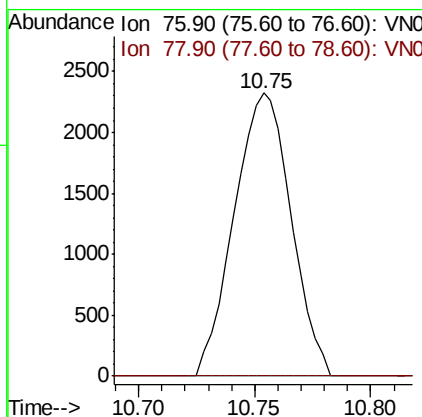
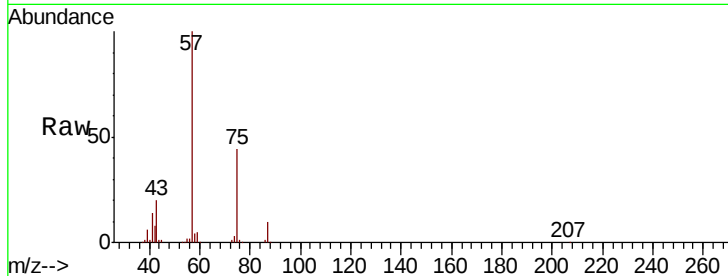




#57
 1,3-Dichloropropane
 Concen: 1.220 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059879.D
 Acq: 27 Jan 2020 17:49

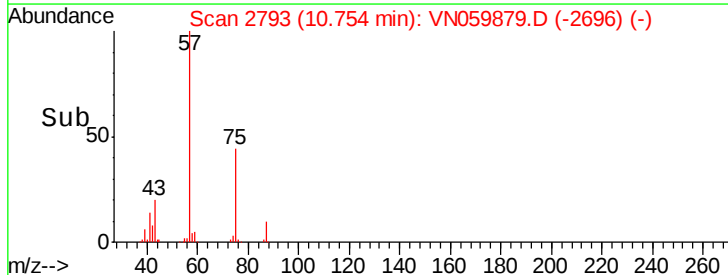
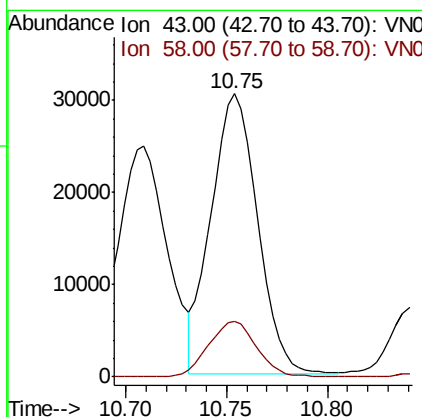
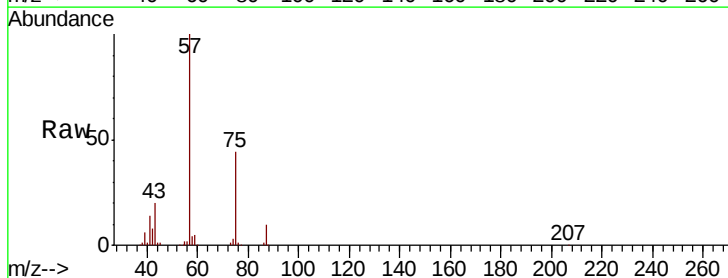
Instrument :
 MSVOA_N
 ClientSampled :

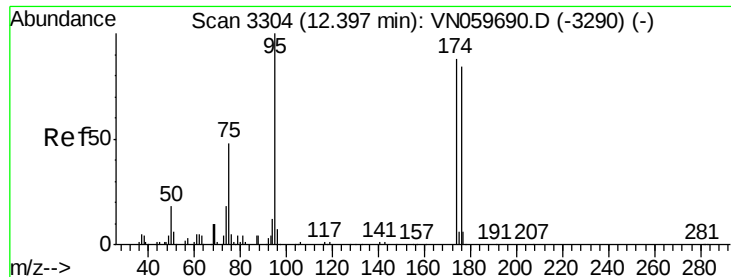
Tot Ion: 76 Resp: 3958
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 26.035 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059879.D
 Acq: 27 Jan 2020 17:49

Tgt Ion: 43 Resp: 48989
 Ion Ratio Lower Upper
 43 100
 58 20.4 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 48.754 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

Instrument :

MSVOA_N

ClientSampled :

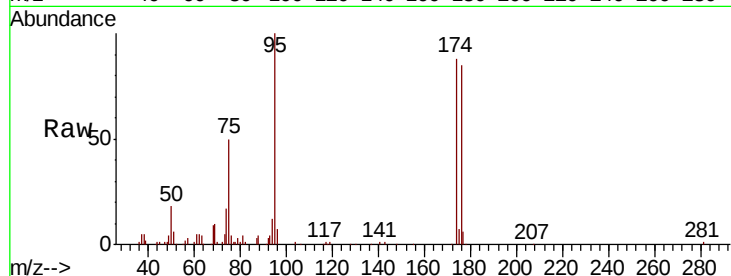
Tot Ion: 95 Resp: 127721

Ion Ratio Lower Upper

95 100

174 88.2 0.0 151.4

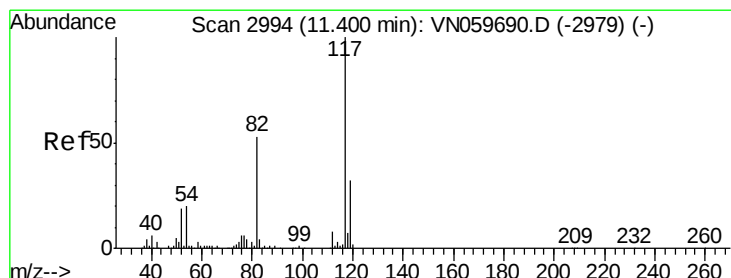
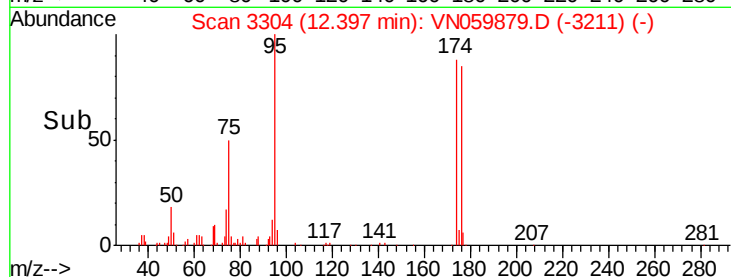
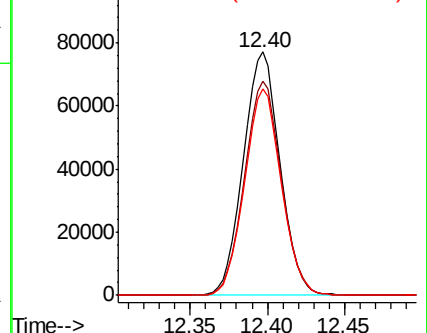
176 84.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059879.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059879.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059879.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

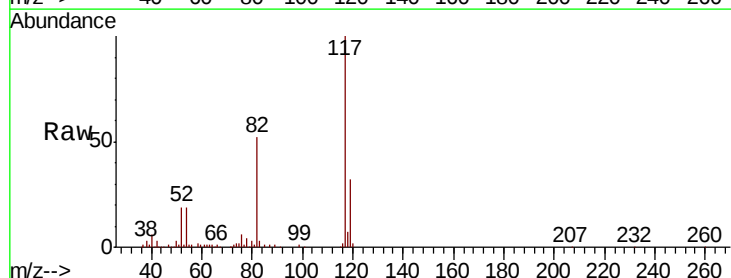
Tgt Ion: 117 Resp: 284008

Ion Ratio Lower Upper

117 100

82 51.7 45.9 68.9

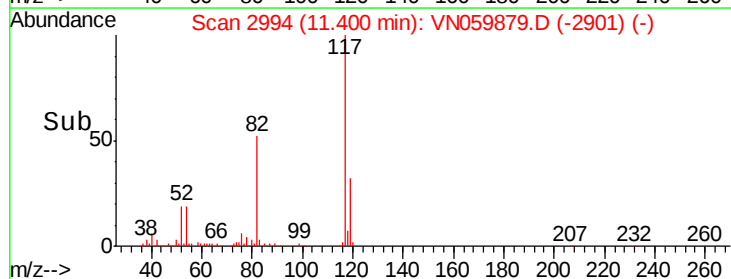
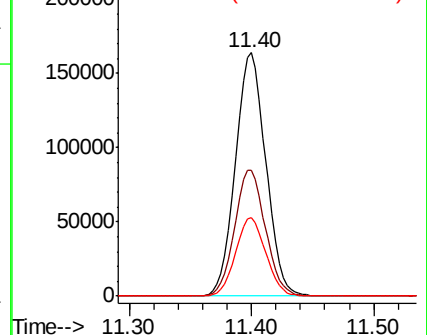
119 32.0 25.5 38.3

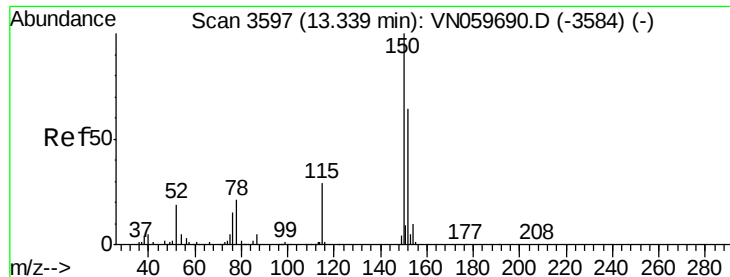


Abundance Ion 116.90 (116.60 to 117.60): VN059879.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059879.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059879.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

Instrument :

MSVOA_N

ClientSampled :

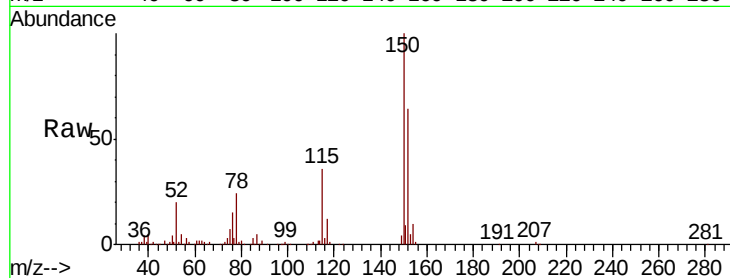
Tot Ion:152 Resp: 120690

Ion Ratio Lower Upper

152 100

115 56.5 30.3 90.9

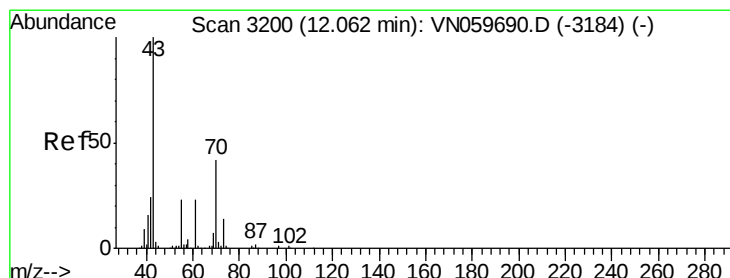
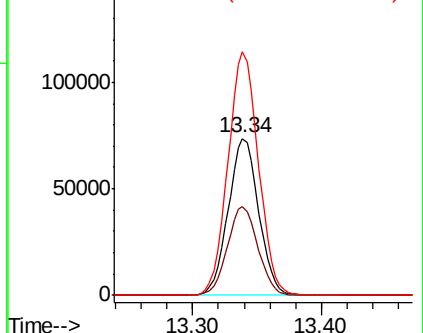
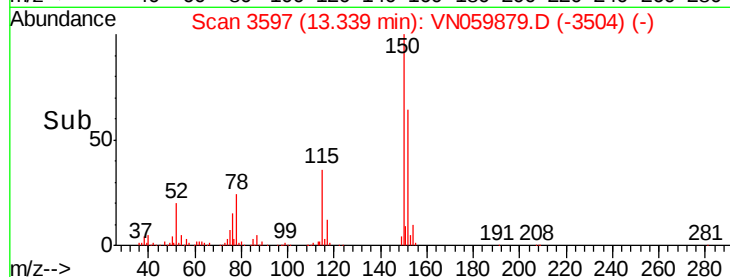
150 155.3 0.0 345.2



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: 0.627 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

Tgt Ion: 43 Resp: 2152

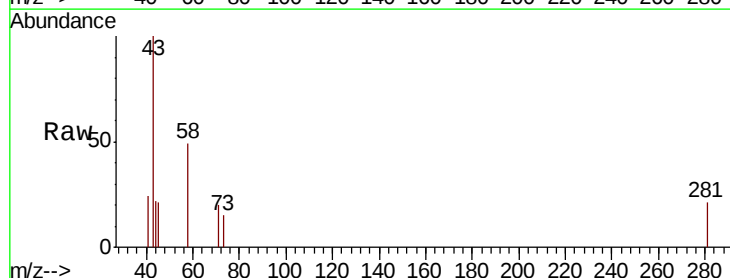
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

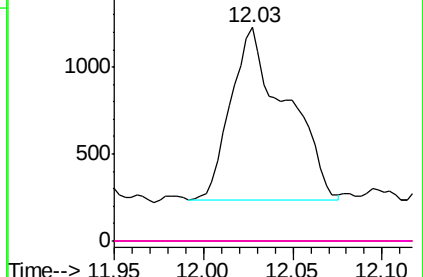
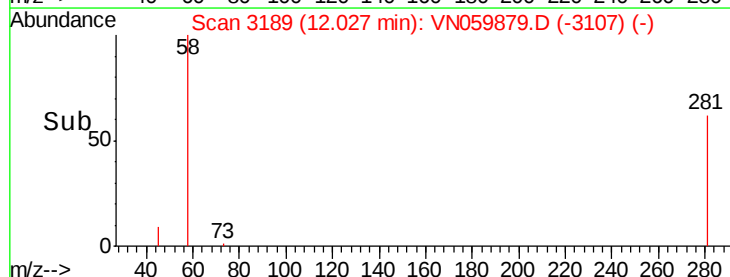


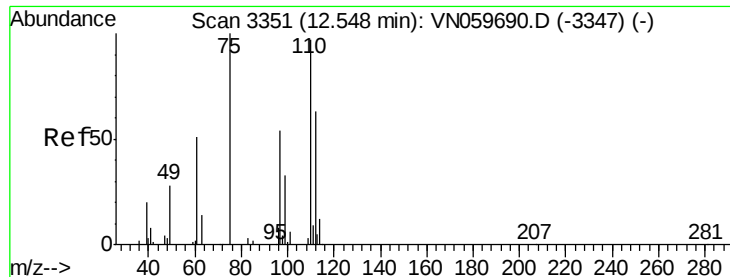
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 31.570 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

Instrument :

MSVOA_N

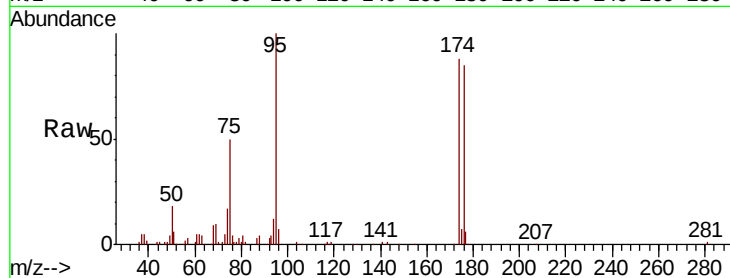
ClientSampled :

Tot Ion: 75 Resp: 64121

Ion Ratio Lower Upper

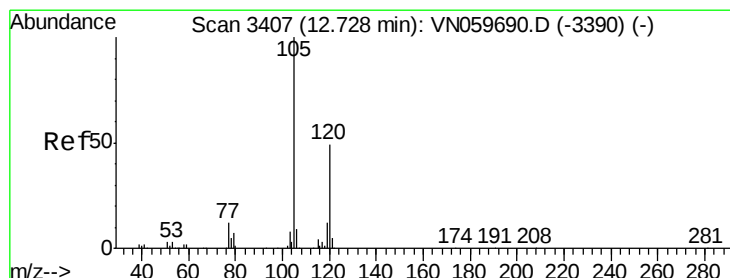
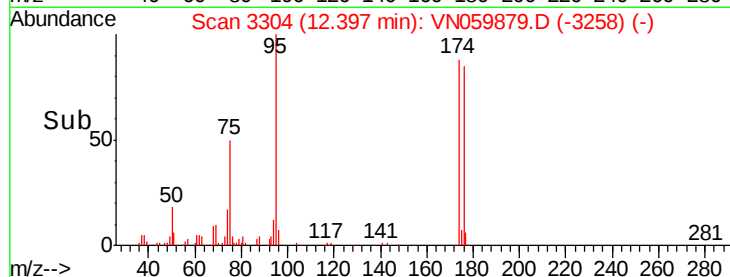
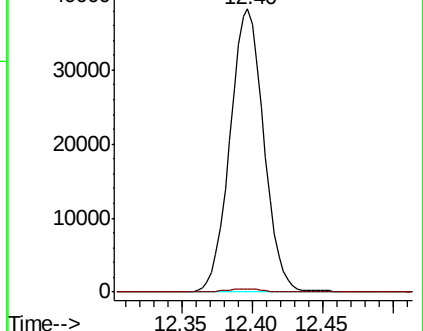
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059879.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN059879.D (-3304) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.867 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059879.D

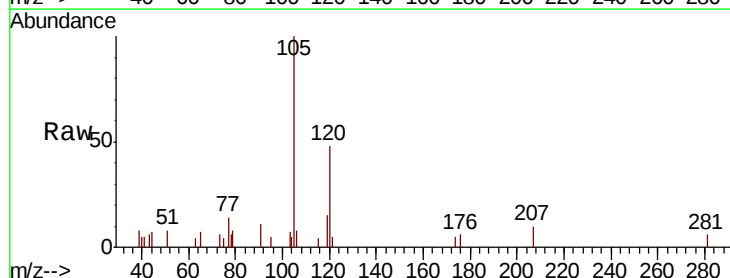
Acq: 27 Jan 2020 17:49

Tgt Ion: 105 Resp: 6455

Ion Ratio Lower Upper

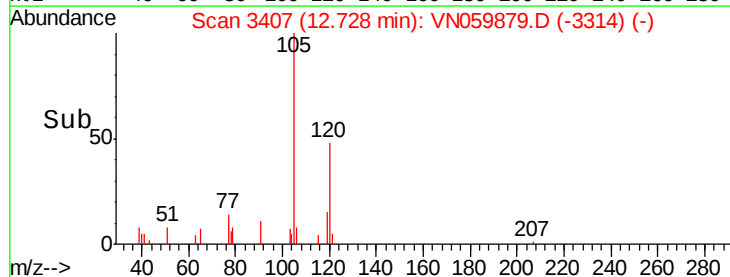
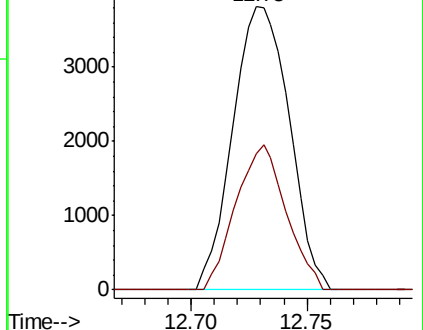
105 100

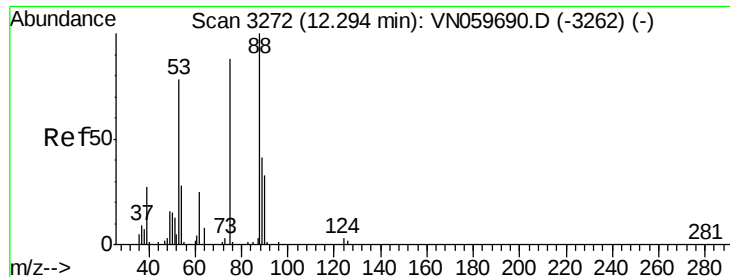
120 45.9 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059879.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN059879.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 67.796 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

Instrument :

MSVOA_N

ClientSampled :

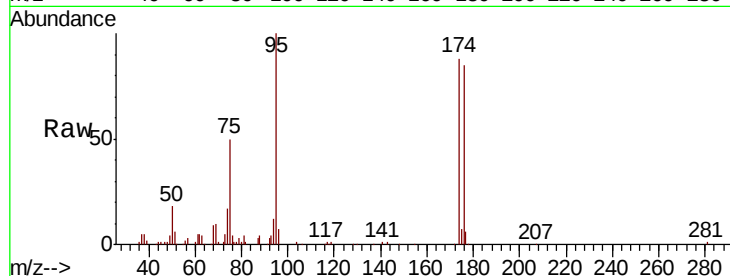
Tot Ion: 75 Resp: 64121

Ion Ratio Lower Upper

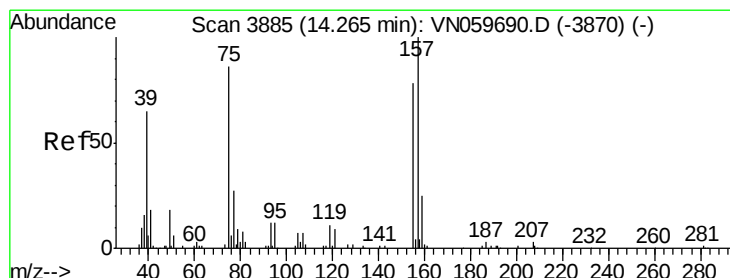
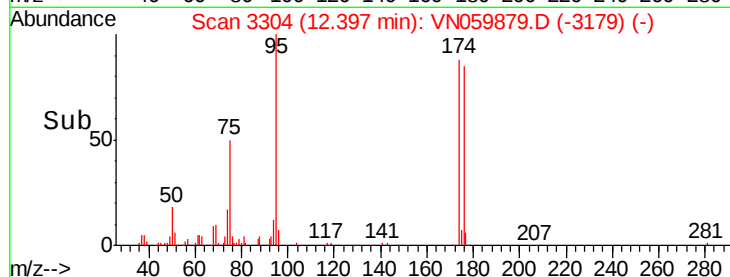
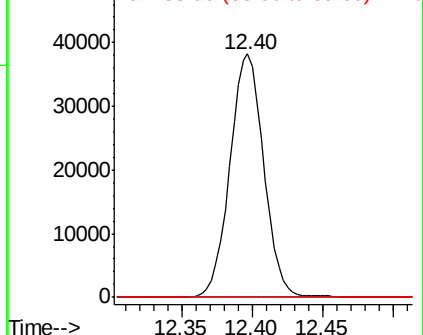
75 100

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: 14.26 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VN059879.D

Acq: 27 Jan 2020 17:49

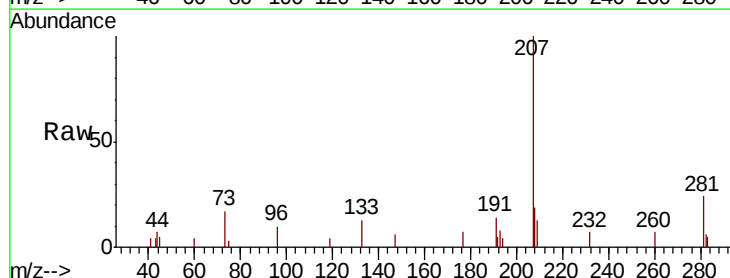
Tgt Ion: 75 Resp: 29

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

