

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060673.D
 Acq On : 24 Mar 2020 15:36
 Operator : JC/MD
 Sample : PB127723ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:53:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	203246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	339092	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	321101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148391	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	132029	47.32	ug/l	0.00
Spiked Amount						
			Recovery	=	94.64%	
35) Dibromofluoromethane	7.56	113	99437	48.50	ug/l	0.00
Spiked Amount						
			Recovery	=	97.00%	
50) Toluene-d8	10.08	98	418882	50.02	ug/l	0.00
Spiked Amount						
			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.40	95	159276	51.89	ug/l	0.00
Spiked Amount						
			Recovery	=	103.78%	

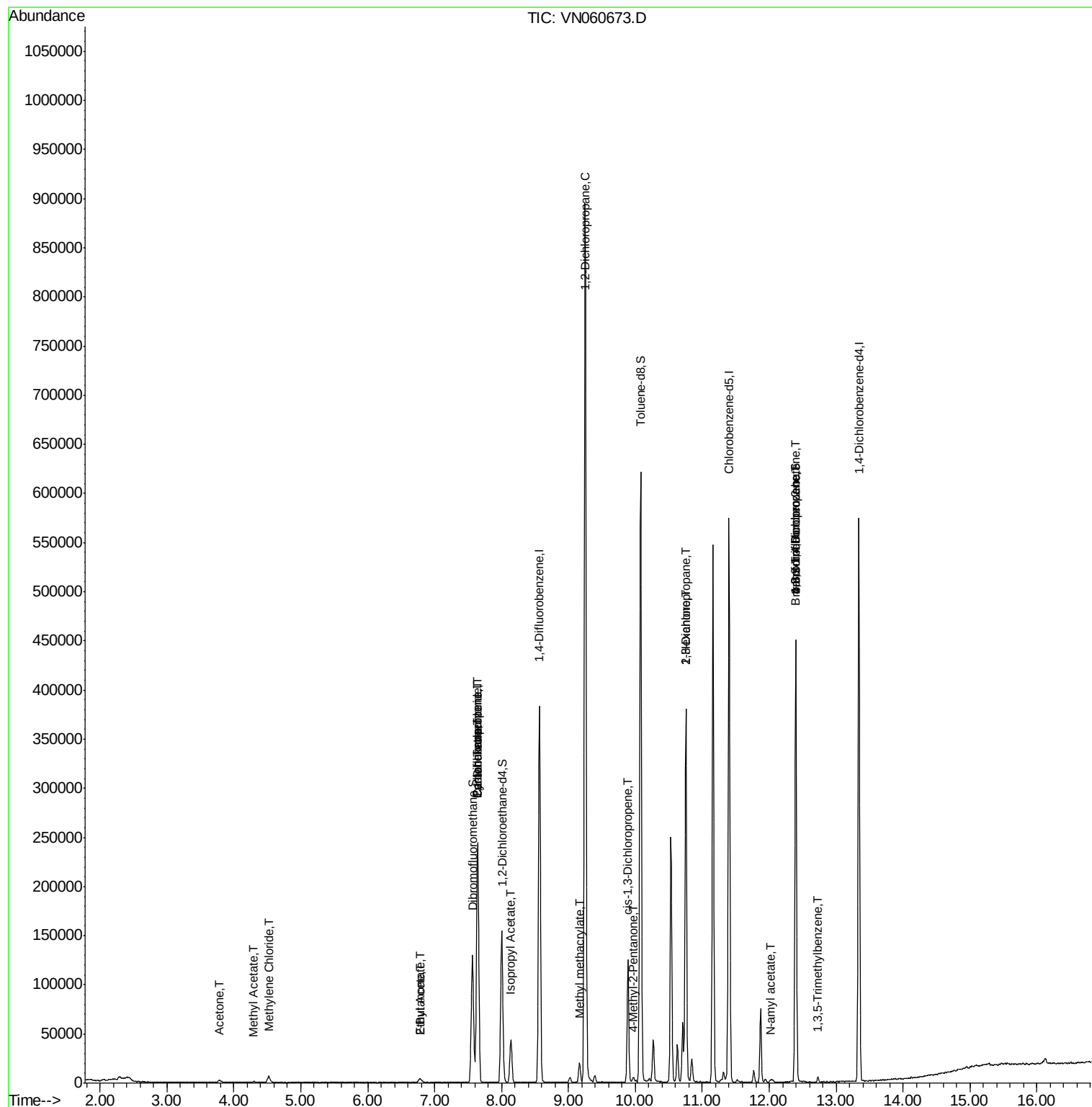
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4949	5.008	ug/l	91
18) Methyl Acetate	4.29	43	1801	0.647	ug/l #	57
20) Methylene Chloride	4.52	84	4790	1.970	ug/l	99
25) 2-Butanone	6.80	43	2067	1.292	ug/l	91
31) Cyclohexane	7.64	56	4254	0.947	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15706	4.783	ug/l #	50
37) Ethyl Acetate	6.80	43	2067	0.583	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19215	6.529	ug/l #	17
43) Isopropyl Acetate	8.14	43	53274	9.105	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	982	0.375	ug/l #	43
48) Methyl methacrylate	9.16	41	2907	1.116	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4035	1.212	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	21878	5.284	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3690	0.923	ug/l #	42
59) 2-Hexanone	10.75	43	55608	23.185	ug/l #	53
71) Bromoform	12.38	173	135	1.749	ug/l #	1
74) N-amyl acetate	12.02	43	3350	0.651	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	79722	24.898	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2951	0.312	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	79722	63.945	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.47	75	29	Below Cal	#	3

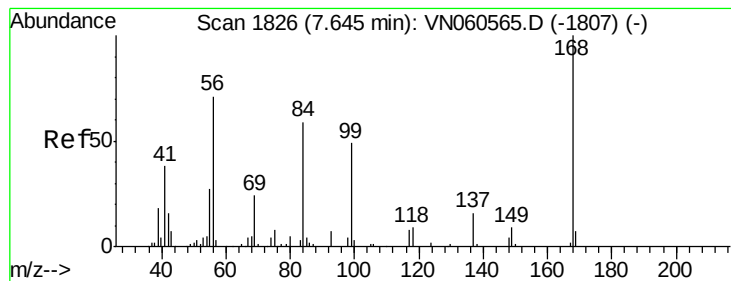
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 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: VN060673.D

Acq: 24 Mar 2020 15:36

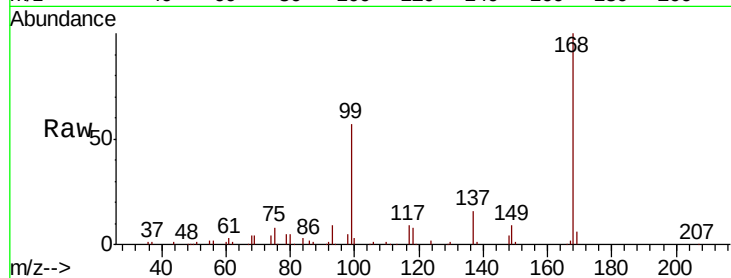
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 203246

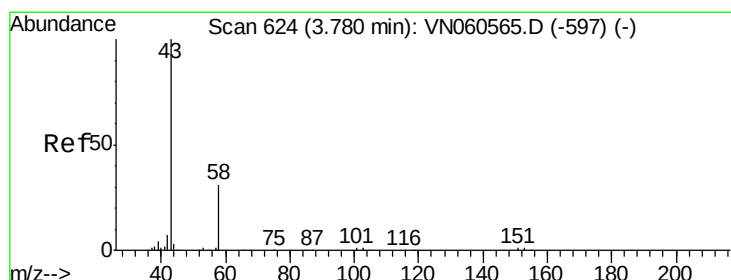
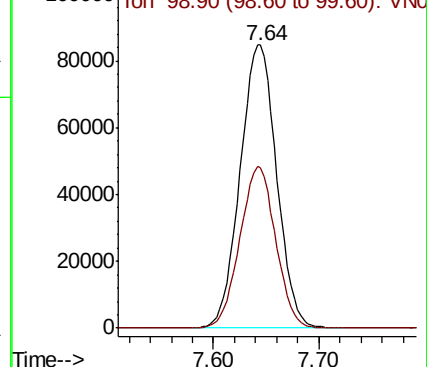
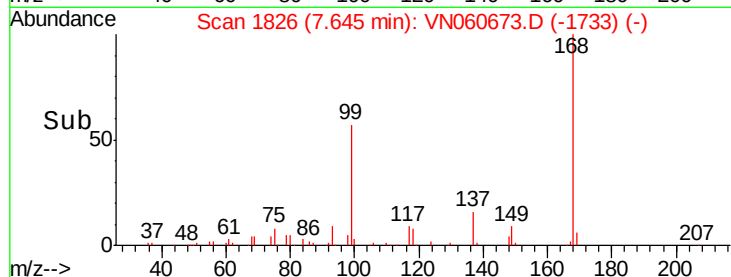
Ion Ratio Lower Upper

168 100

99 56.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060673.D (-1733) (-)



#16

Acetone

Concen: 5.008 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060673.D

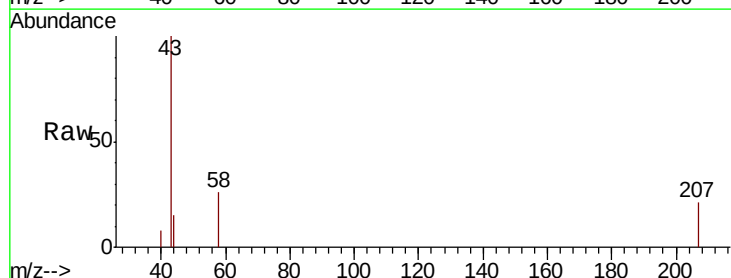
Acq: 24 Mar 2020 15:36

Tgt Ion: 43 Resp: 4949

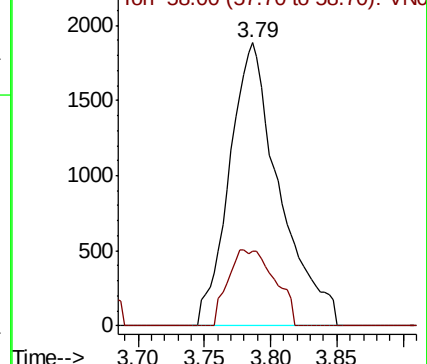
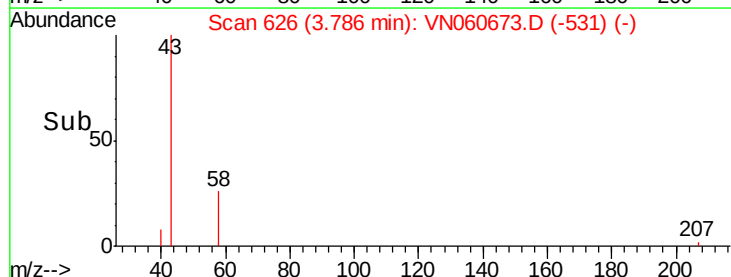
Ion Ratio Lower Upper

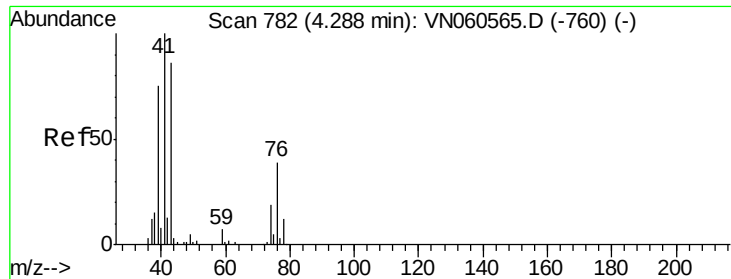
43 100

58 26.3 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060673.D (-531) (-)

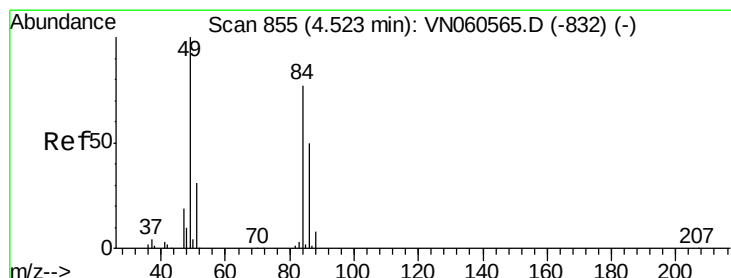
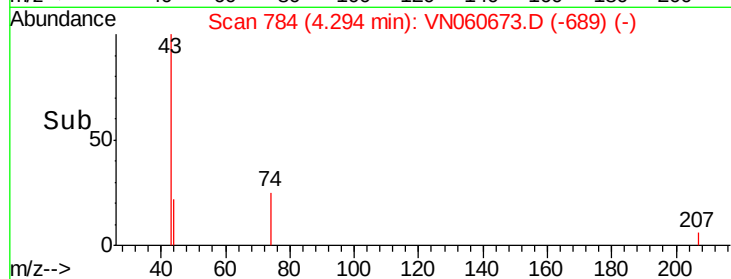
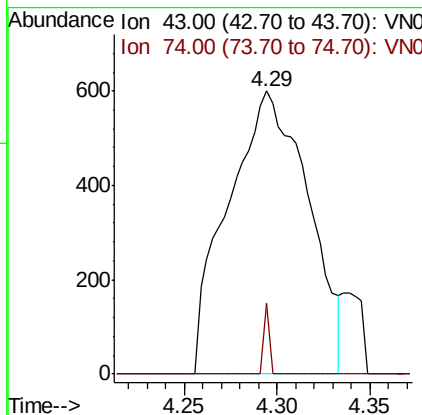
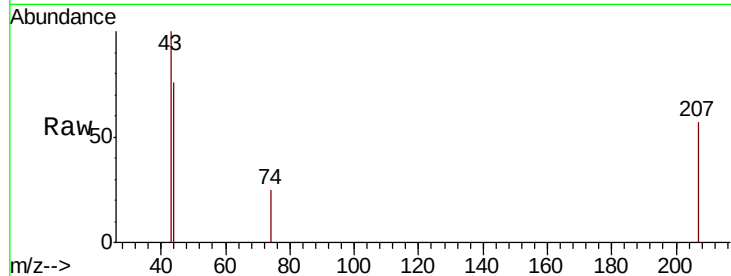




#18
Methyl Acetate
Concen: 0.647 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

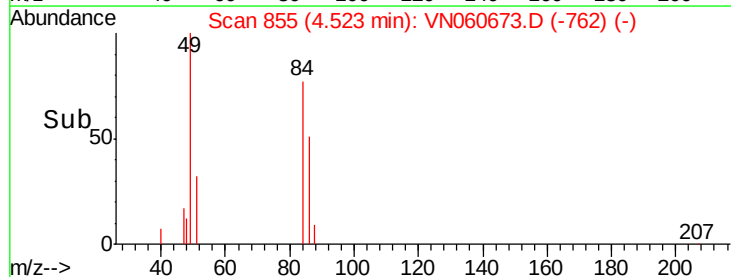
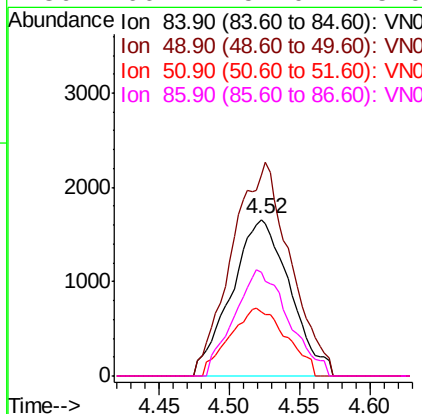
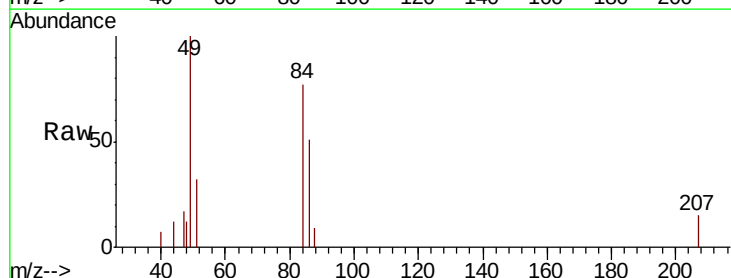
Instrument :
MSVOA_N
ClientSampleId :

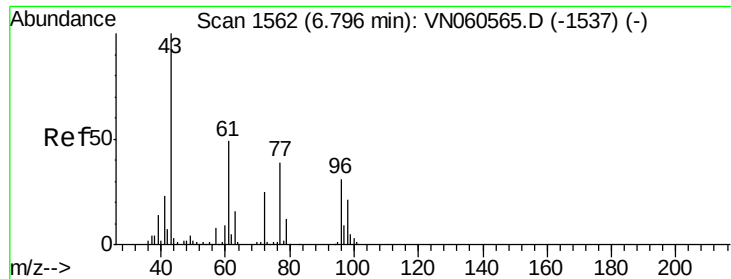
Tot Ion: 43 Resp: 1801
Ion Ratio Lower Upper
43 100
74 1.6 17.5 26.3#



#20
Methylene Chloride
Concen: 1.970 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

Tgt Ion: 84 Resp: 4790
Ion Ratio Lower Upper
84 100
49 129.0 103.3 154.9
51 41.2 31.6 47.4
86 66.1 52.0 78.0





#25

2-Butanone

Concen: 1.292 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

Instrument :

MSVOA_N

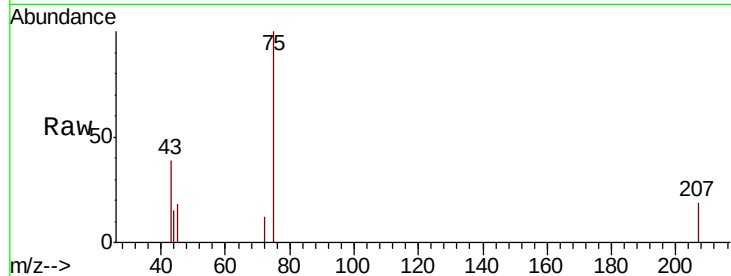
ClientSampleId :

Tot Ion: 43 Resp: 2067

Ion Ratio Lower Upper

43 100

72 29.8 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.80

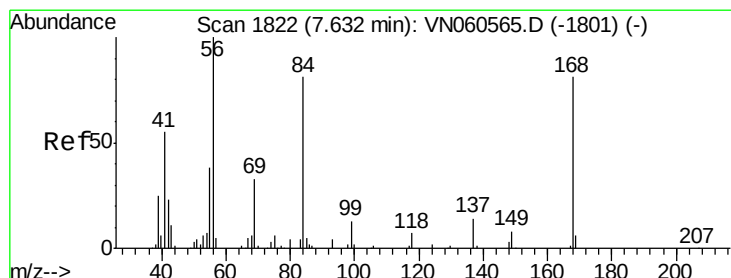
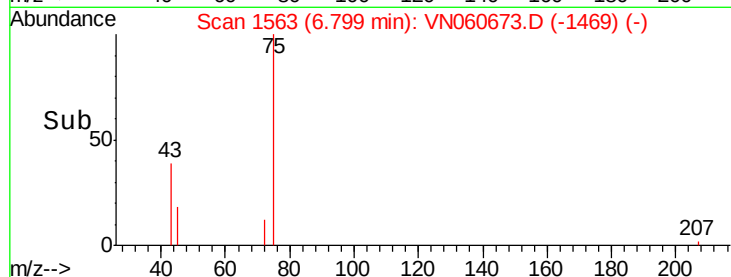
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.947 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

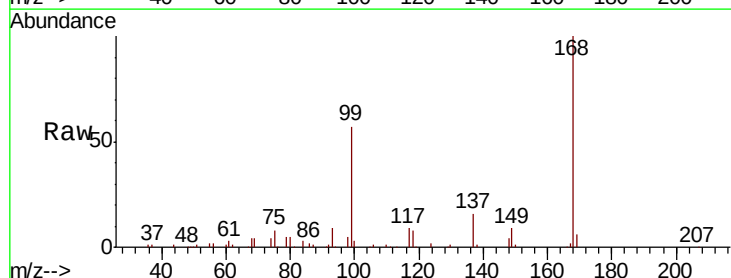
Tgt Ion: 56 Resp: 4254

Ion Ratio Lower Upper

56 100

69 168.9 26.6 40.0#

84 136.5 64.3 96.5#



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

4000

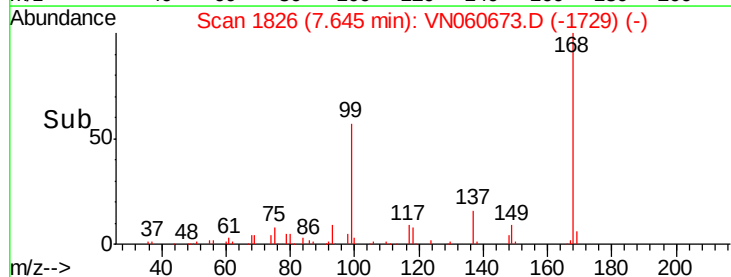
3000

2000

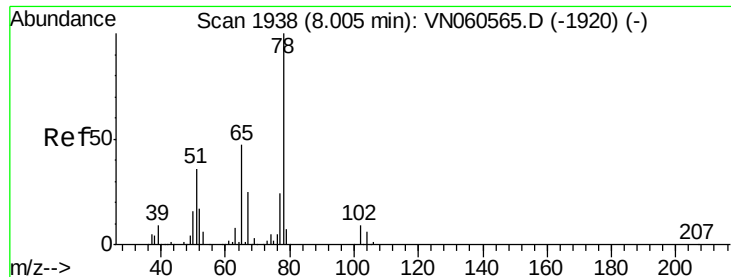
1000

0

Time-->



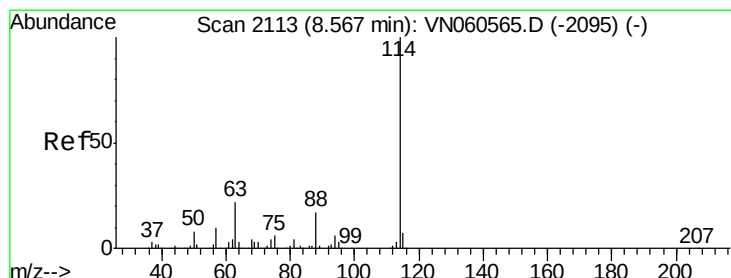
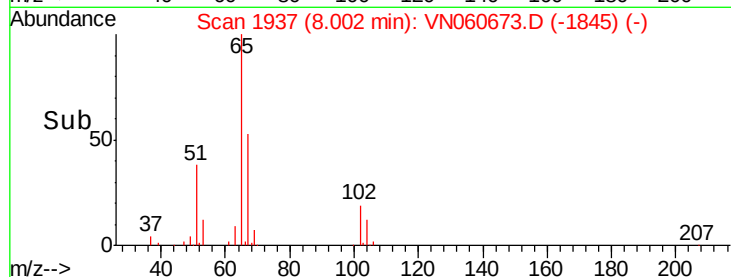
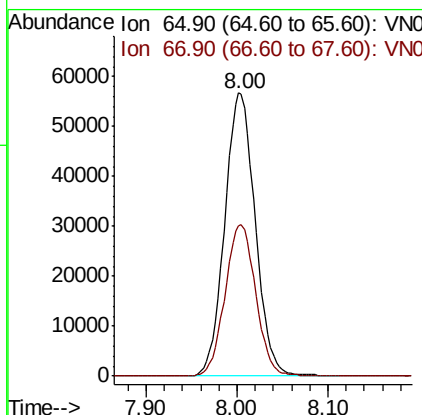
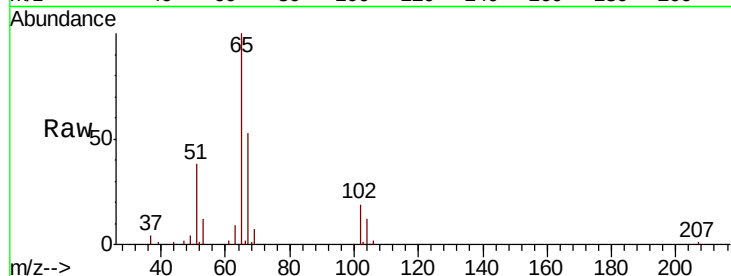
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 47.320 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

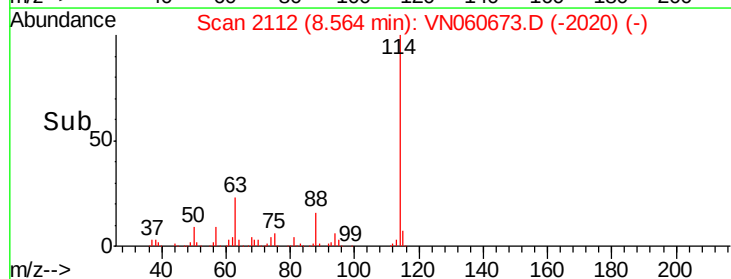
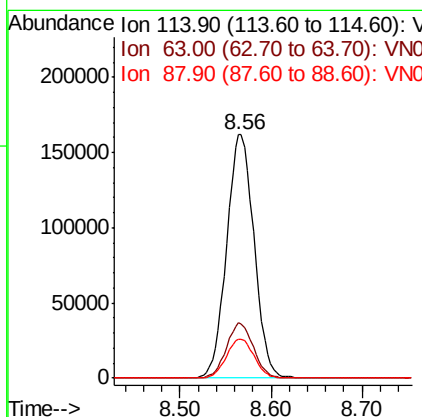
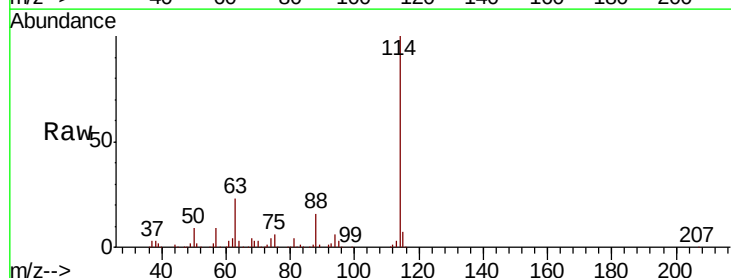
Instrument :
 MSVOA_N
 ClientSampleId :

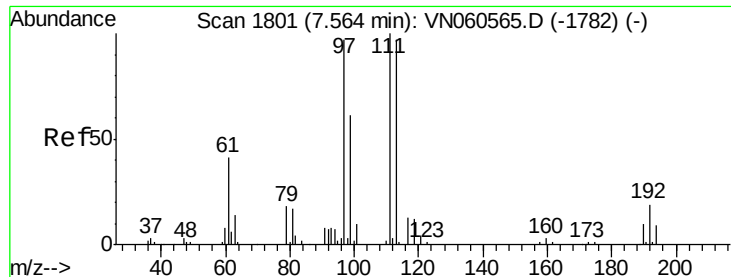
Tot Ion: 65 Resp: 132029
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

Tgt Ion: 114 Resp: 339092
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 43.8
 88 16.1 0.0 33.0

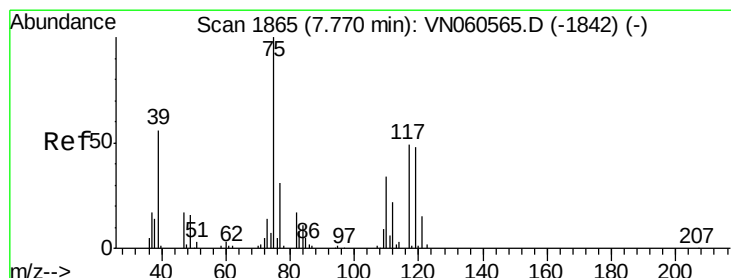
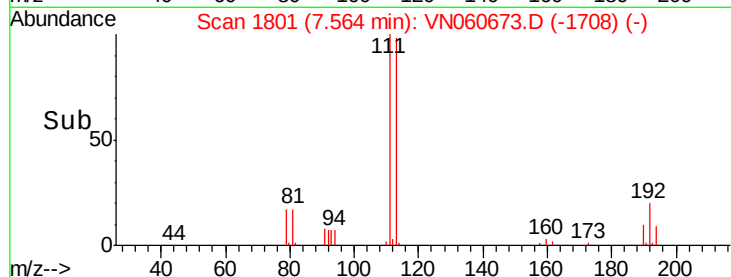
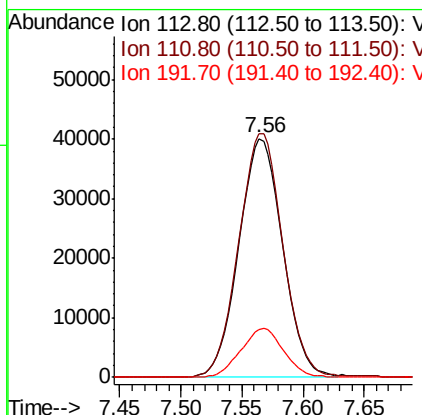
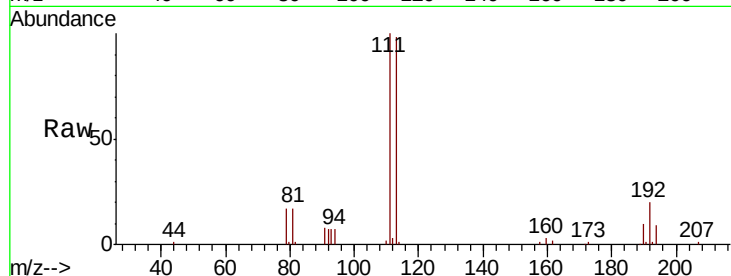




#35
 Dibromofluoromethane
 Concen: 48.497 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

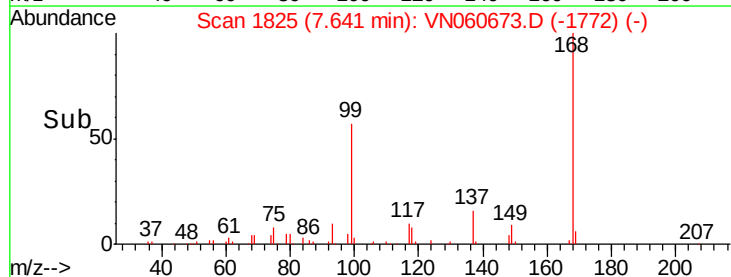
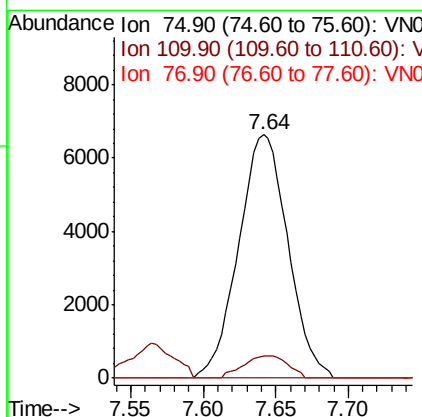
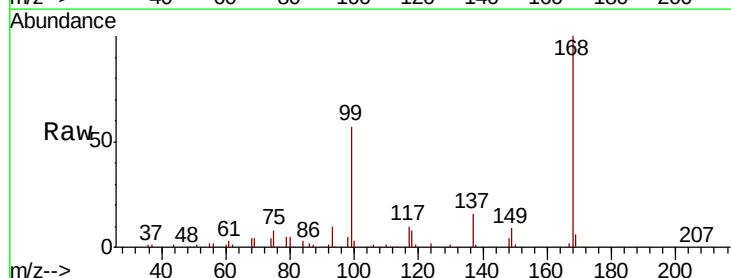
Instrument :
 MSVOA_N
 ClientSampled :

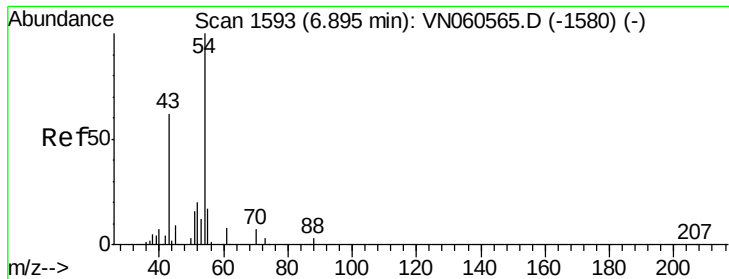
Tot Ion:113 Resp: 99437
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.9 124.3
 192 20.1 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.783 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

Tgt Ion: 75 Resp: 15706
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.9 50.6#
 77 0.0 24.6 36.8#

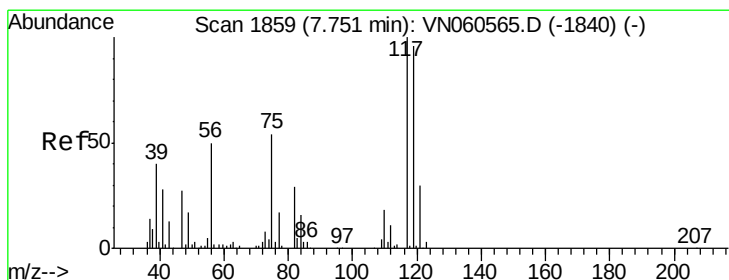
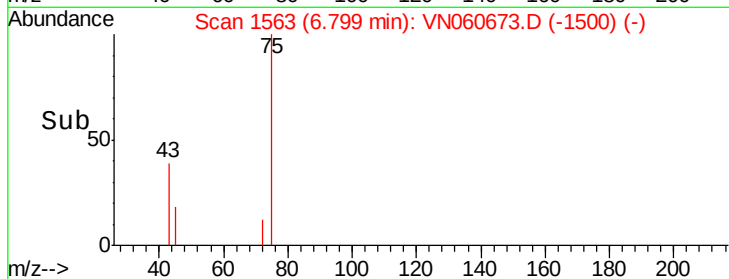
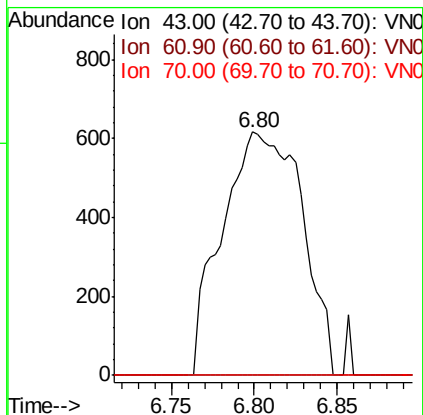
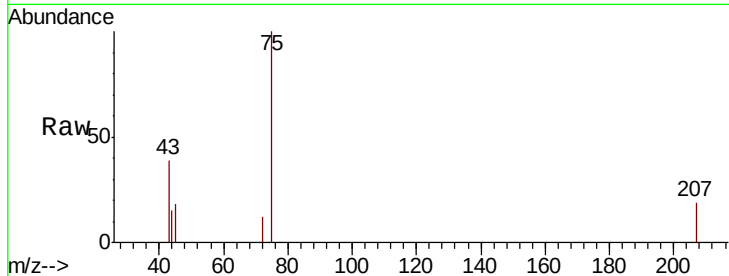




#37
Ethyl Acetate
Concen: 0.583 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

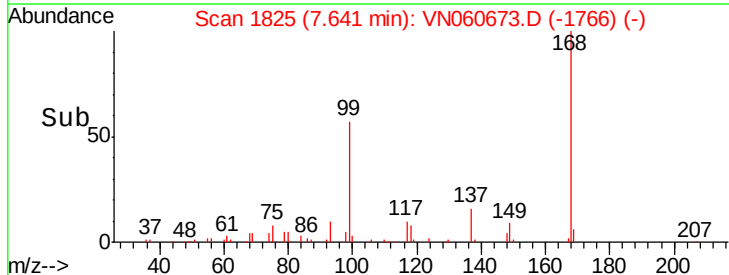
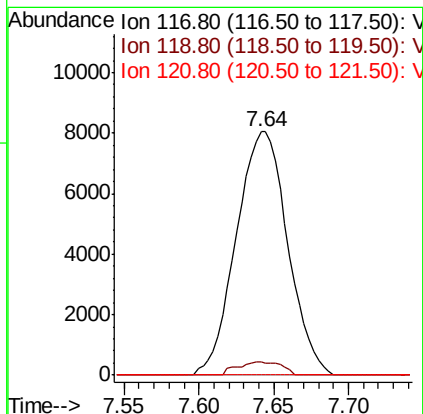
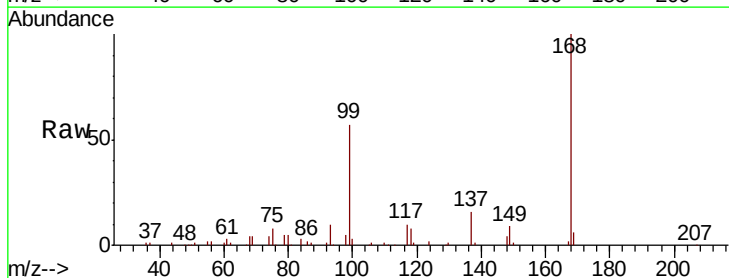
Instrument :
MSVOA_N
ClientSampleId :

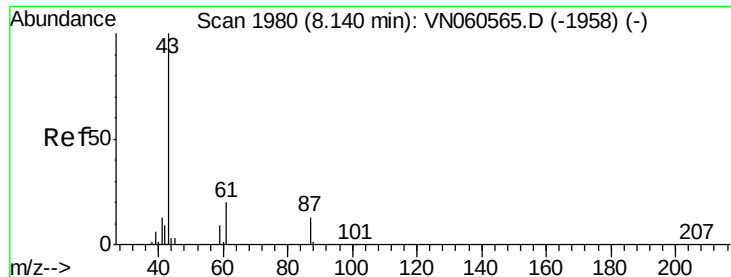
Tot Ion: 43 Resp: 2067
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.529 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

Tgt Ion: 117 Resp: 19215
Ion Ratio Lower Upper
117 100
119 5.4 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 9.105 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

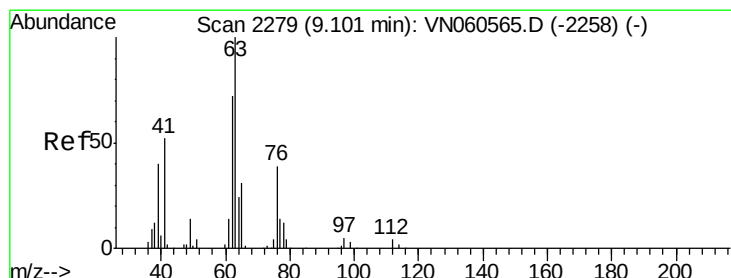
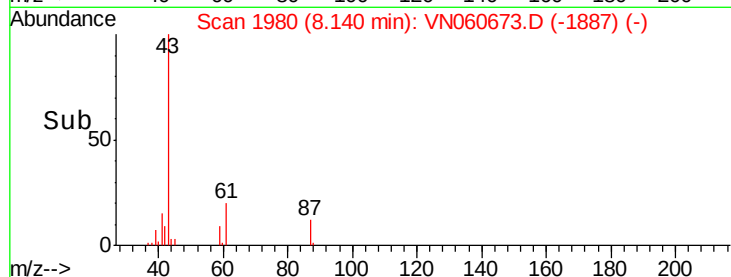
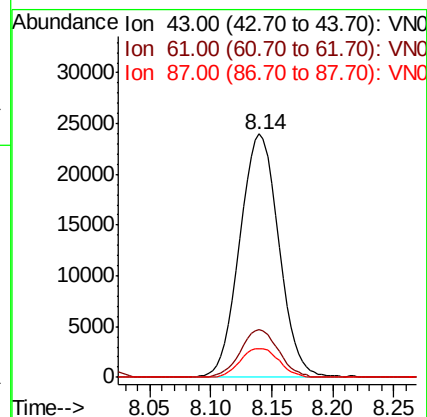
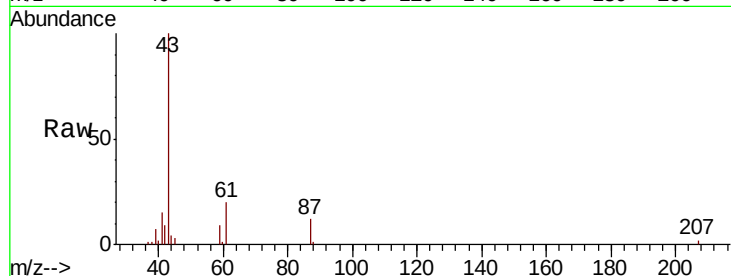
Tot Ion: 43 Resp: 53274

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

87 11.7 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.375 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060673.D

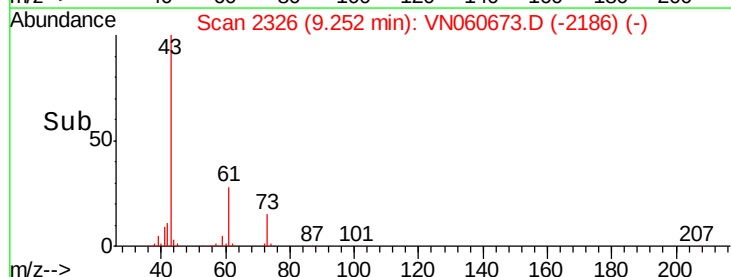
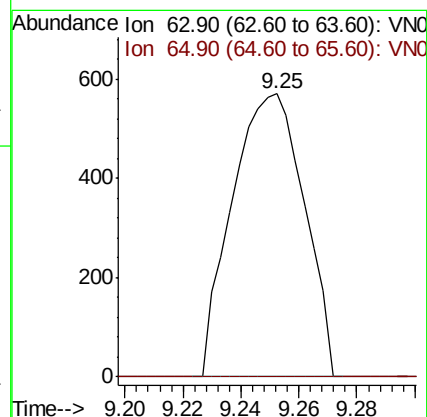
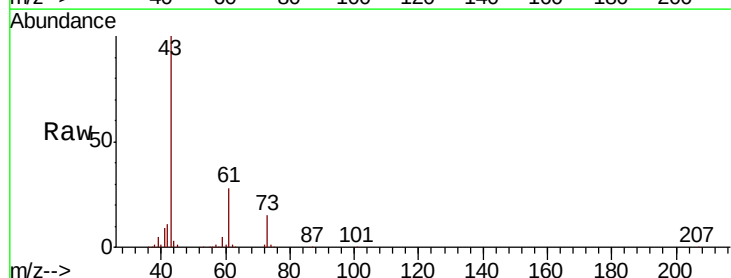
Acq: 24 Mar 2020 15:36

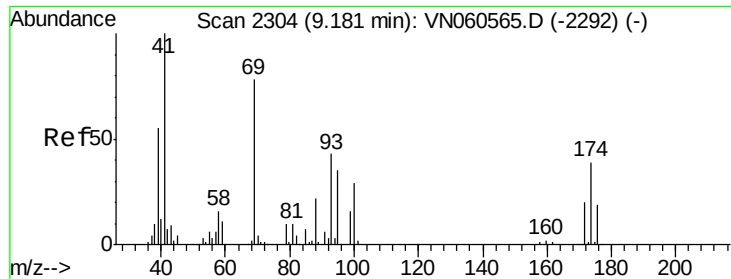
Tgt Ion: 63 Resp: 982

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

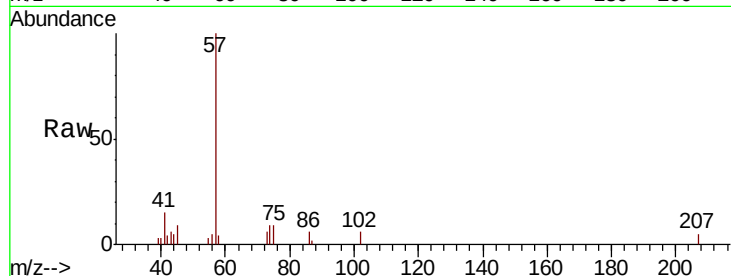




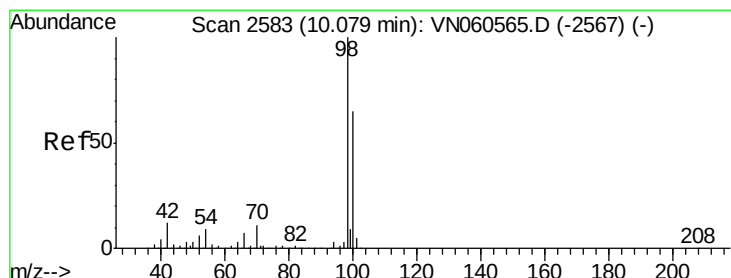
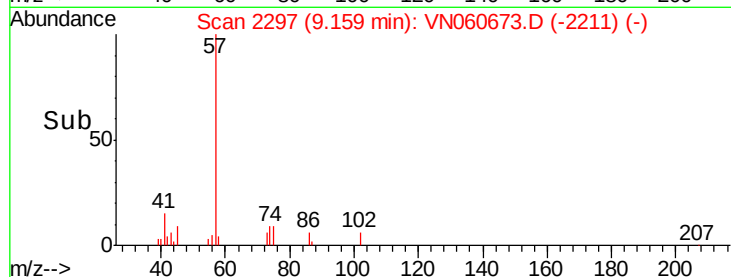
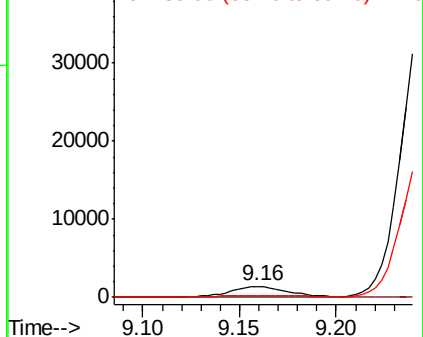
#48
Methvl methacrylate
Concen: 1.116 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2907
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

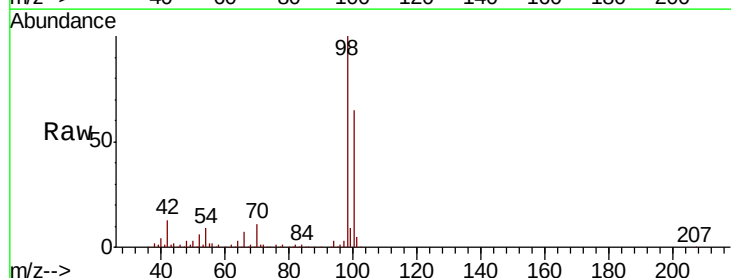


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

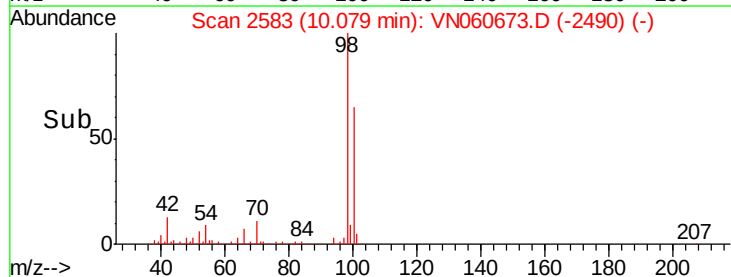
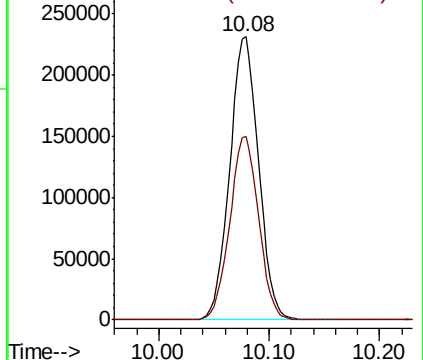


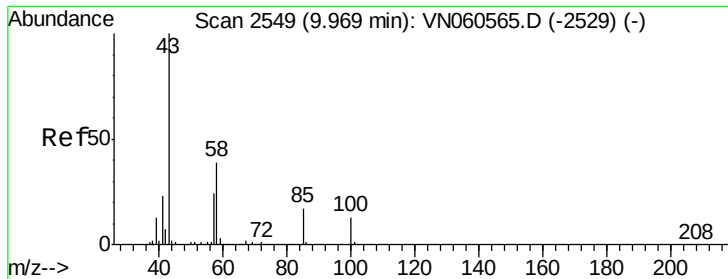
#50
Toluene-d8
Concen: 50.016 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

Tgt Ion: 98 Resp: 418882
Ion Ratio Lower Upper
98 100
100 64.8 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

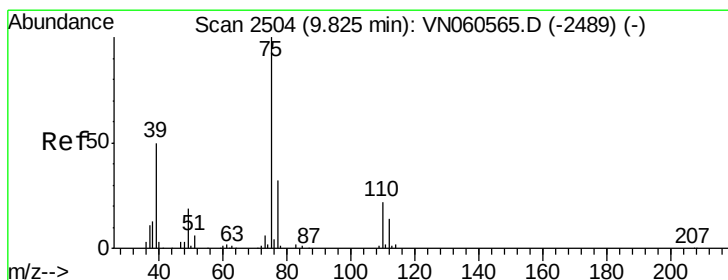
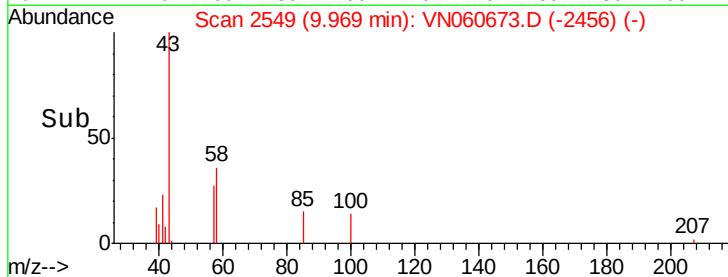
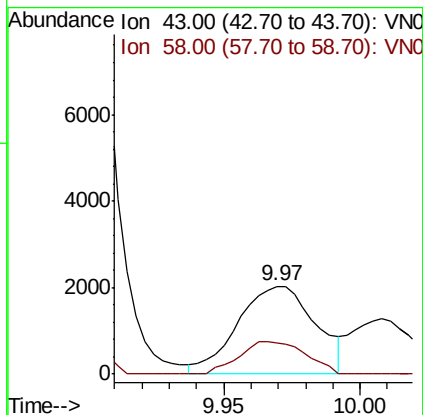
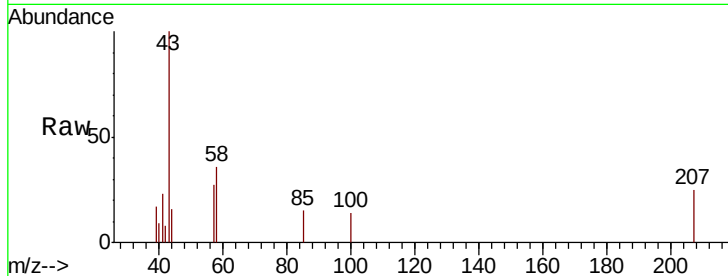




#51
 4-Methyl-2-Pentanone
 Concen: 1.212 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

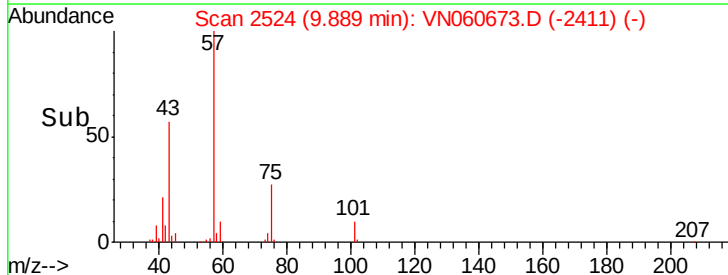
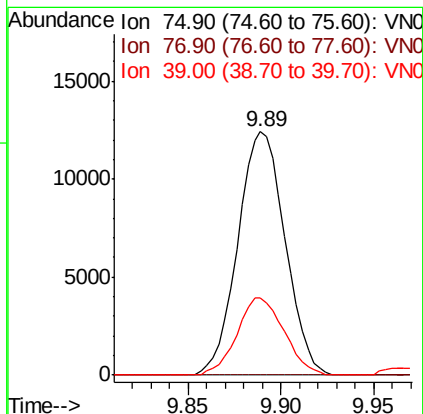
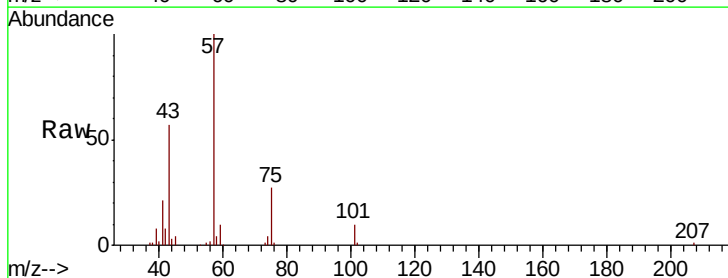
Instrument :
 MSVOA_N
 ClientSampled :

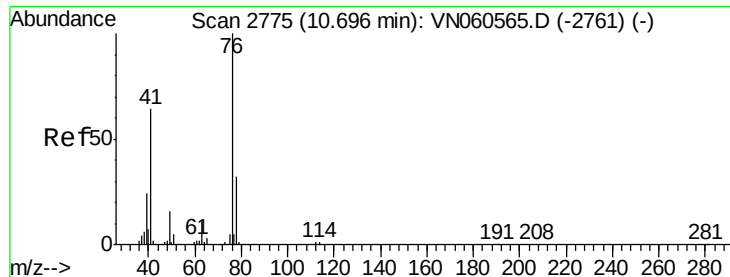
Tot Ion: 43 Resp: 4035
 Ion Ratio Lower Upper
 43 100
 58 31.8 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.284 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

Tgt Ion: 75 Resp: 21878
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.7 40.2 60.4#

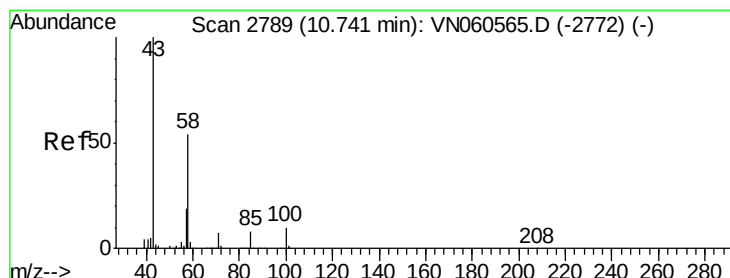
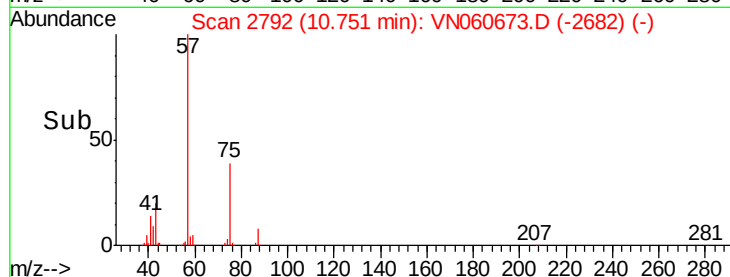
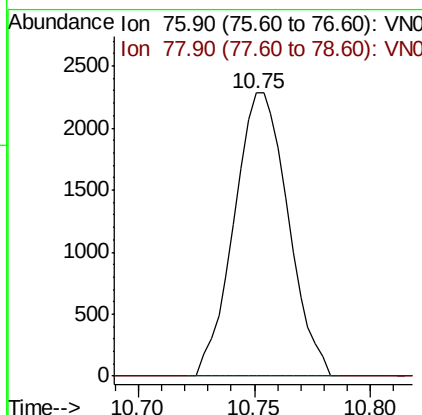
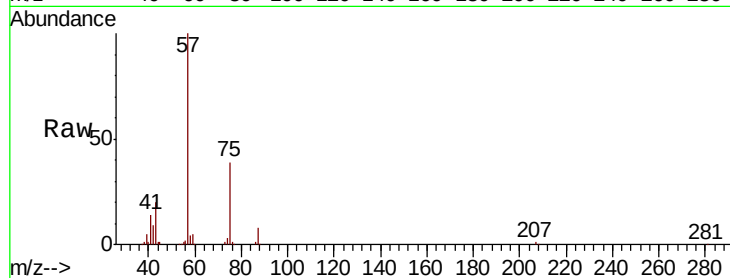




#57
 1,3-Dichloropropane
 Concen: 0.923 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

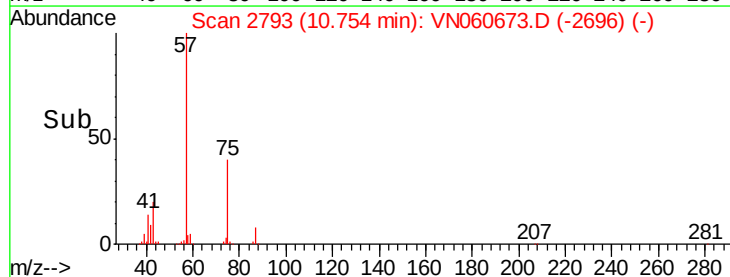
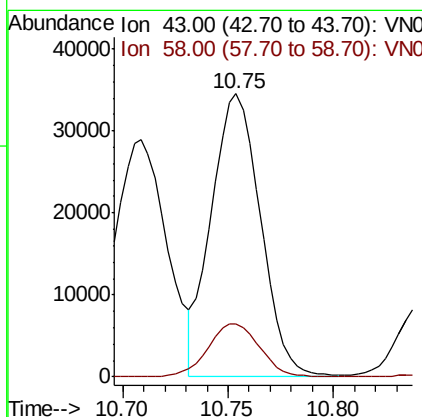
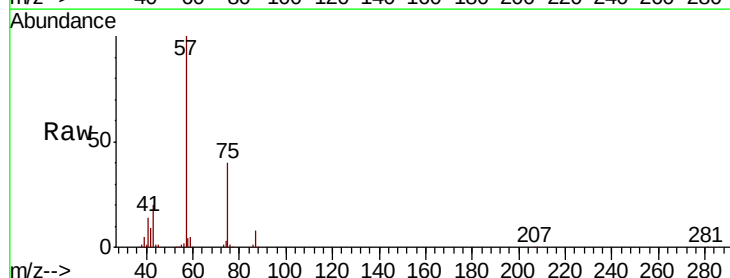
Instrument :
 MSVOA_N
 ClientSampled :

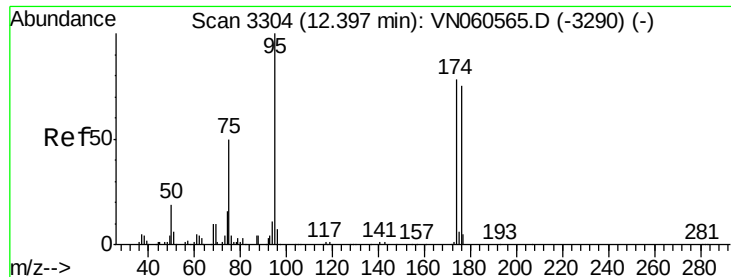
Tot Ion: 76 Resp: 3690
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 23.185 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060673.D
 Acq: 24 Mar 2020 15:36

Tgt Ion: 43 Resp: 55608
 Ion Ratio Lower Upper
 43 100
 58 19.8 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 51.893 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

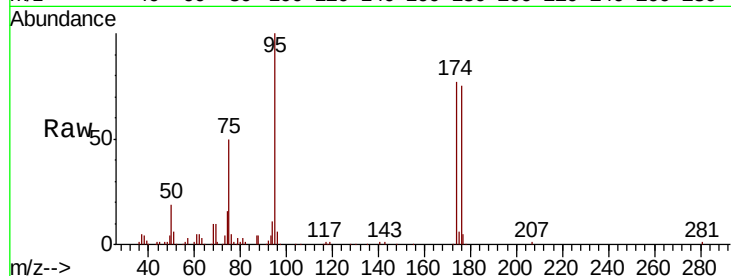
Tot Ion: 95 Resp: 159276

Ion Ratio Lower Upper

95 100

174 77.5 0.0 157.6

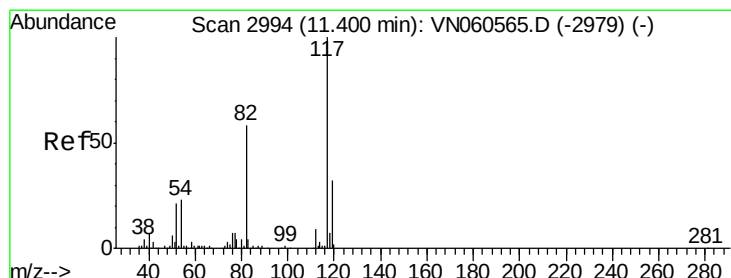
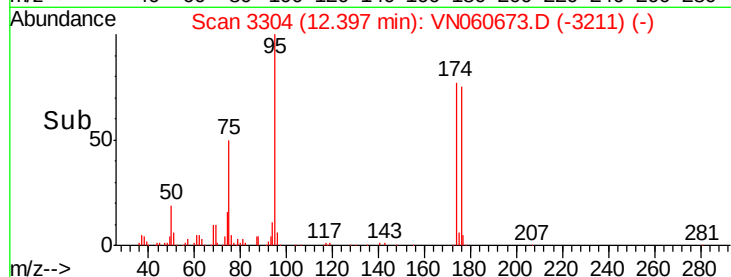
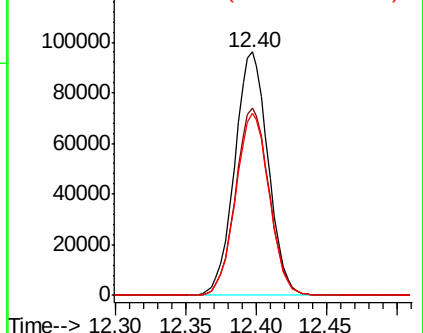
176 75.3 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060673.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060673.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060673.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

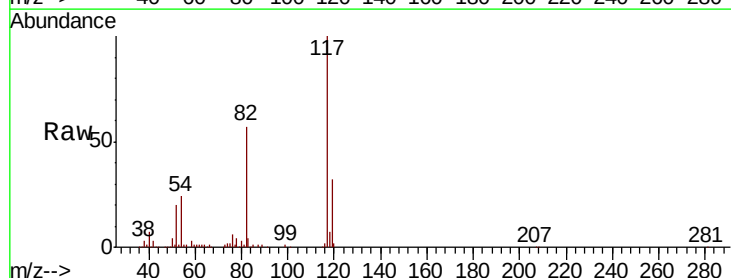
Tgt Ion: 117 Resp: 321101

Ion Ratio Lower Upper

117 100

82 57.3 46.7 70.1

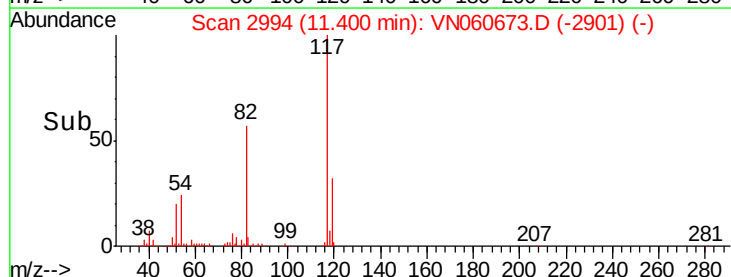
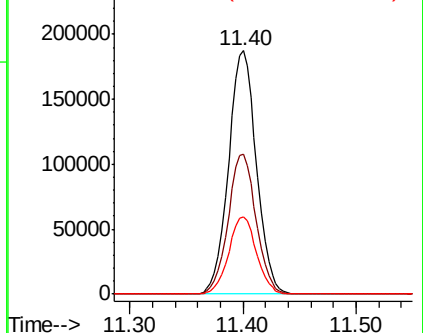
119 32.0 25.5 38.3

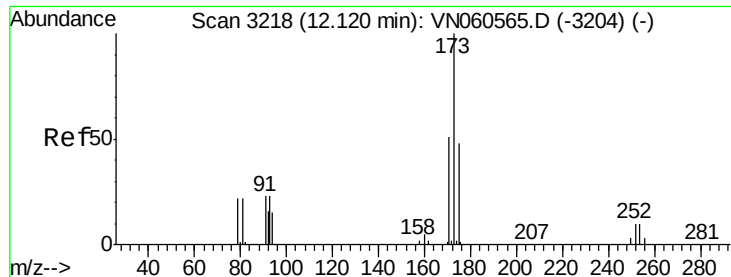


Abundance Ion 116.90 (116.60 to 117.60): VN060673.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060673.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060673.D (-2979) (-)





#71

Bromoform

Concen: 1.749 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

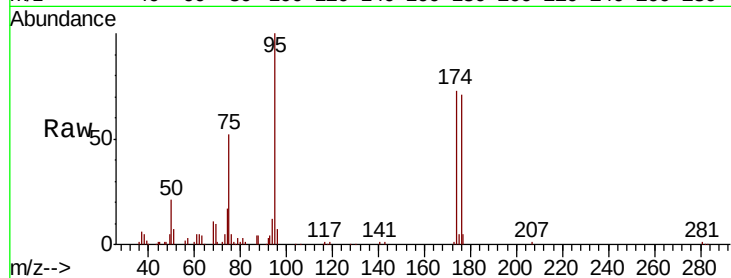
Tot Ion:173 Resp: 135

Ion Ratio Lower Upper

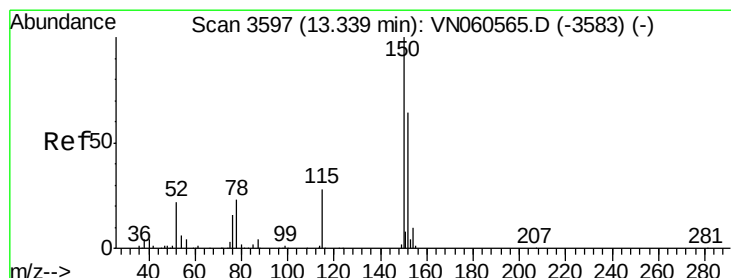
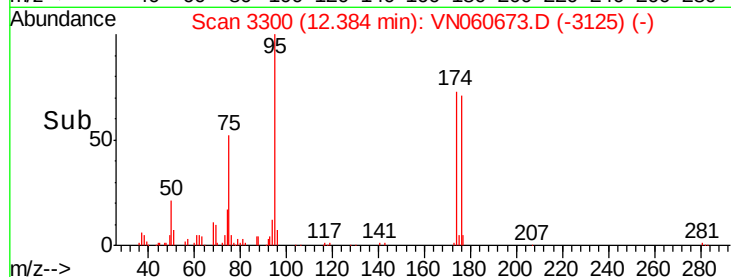
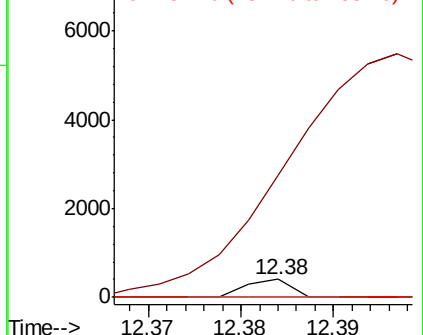
173 100

175 5574.8 24.1 72.4#

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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

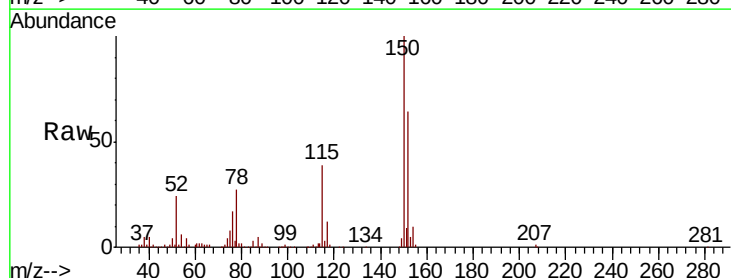
Tgt Ion:152 Resp: 148391

Ion Ratio Lower Upper

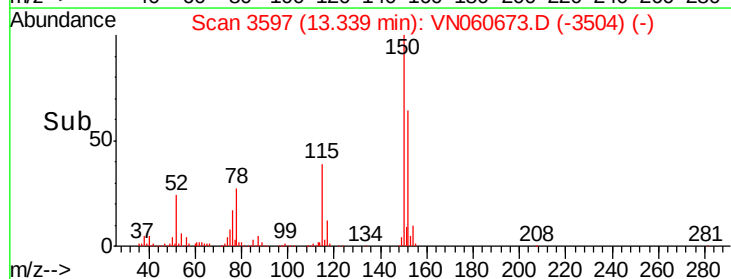
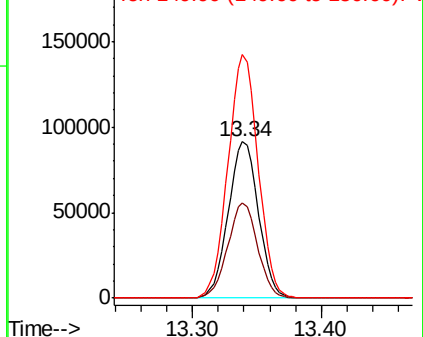
152 100

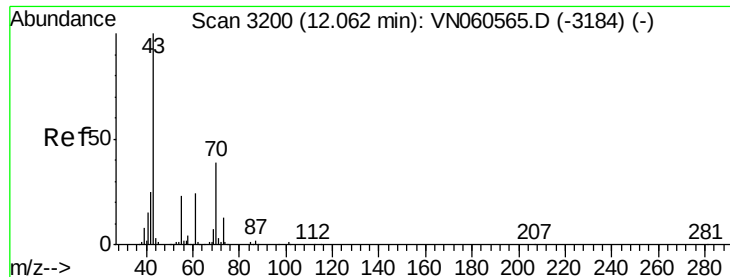
115 60.0 30.2 90.6

150 155.7 0.0 350.2



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

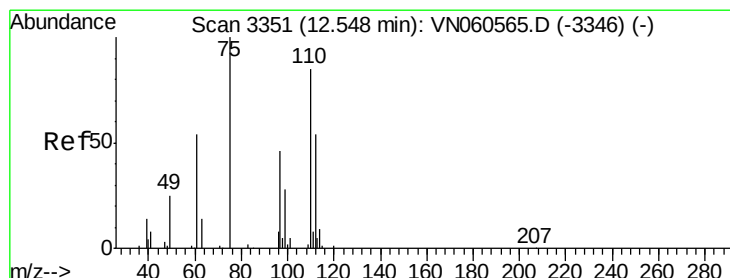
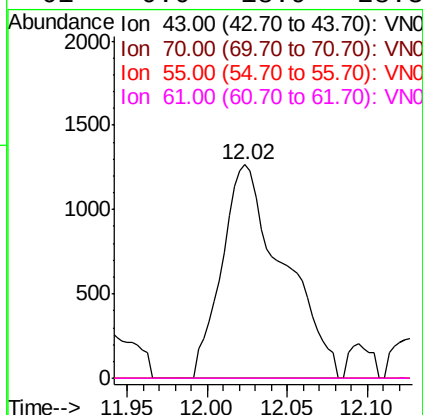
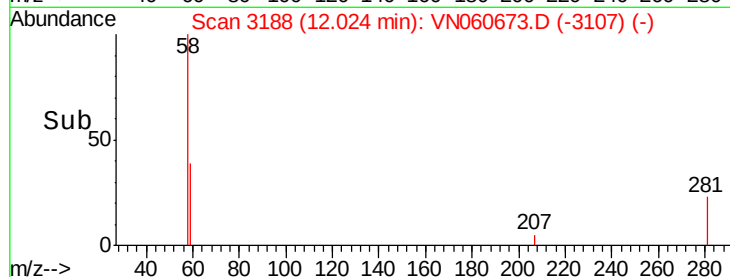
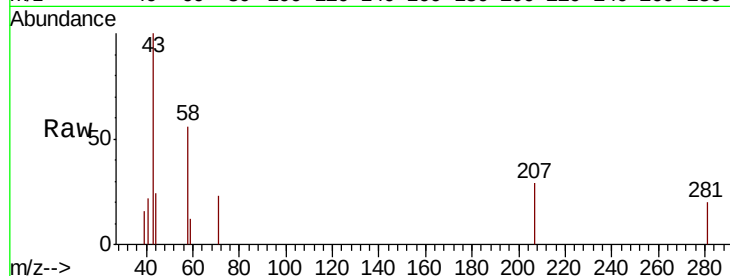




#74
N-amvl acetate
Concen: 0.651 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

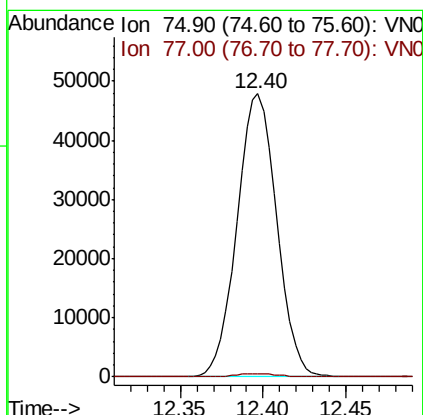
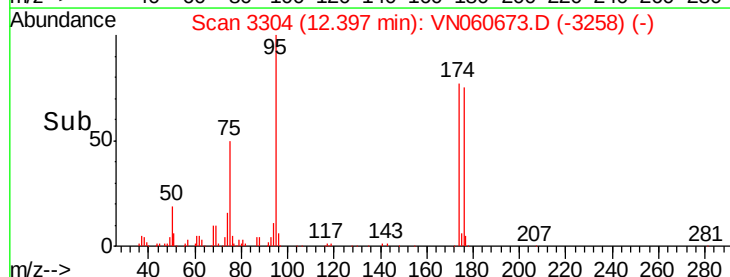
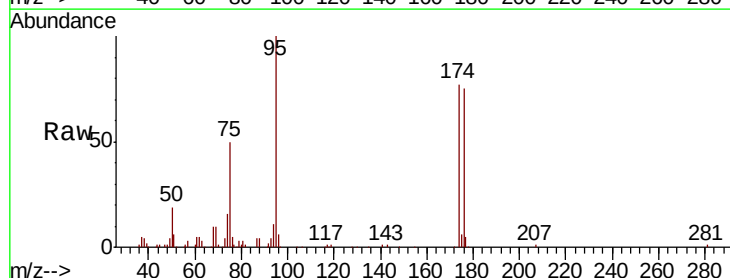
Instrument :
MSVOA_N
ClientSampleId :

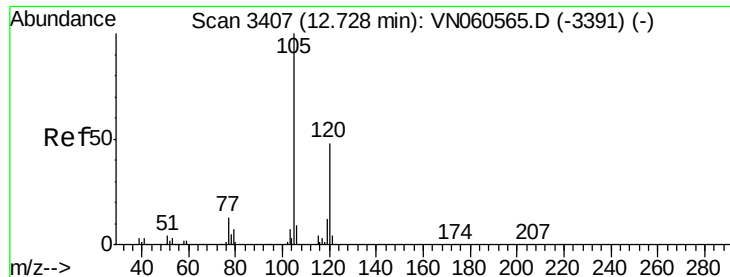
Tot Ion: 43 Resp: 3350
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 0.0 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 24.898 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060673.D
Acq: 24 Mar 2020 15:36

Tgt Ion: 75 Resp: 79722
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.312 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

Instrument :

MSVOA_N

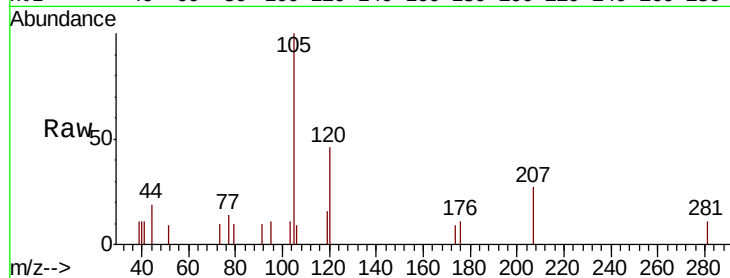
ClientSampleId :

Tot Ion:105 Resp: 2951

Ion Ratio Lower Upper

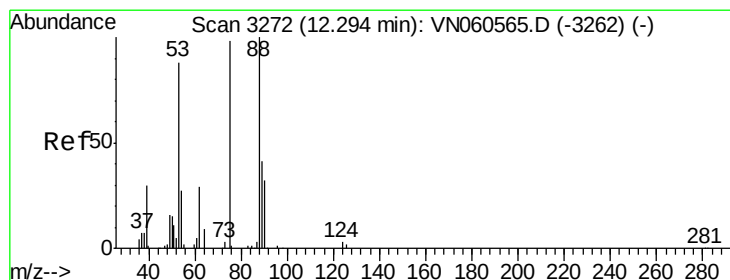
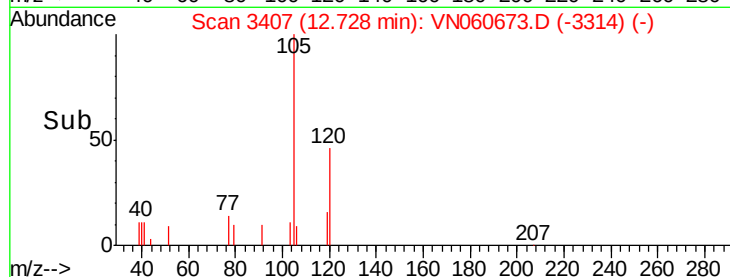
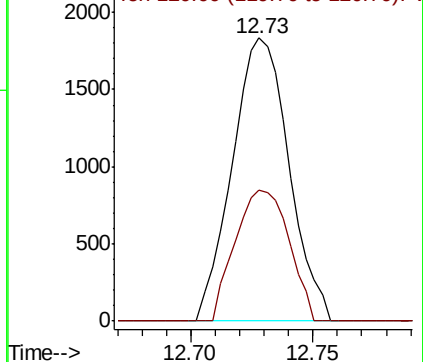
105 100

120 44.0 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 63.945 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

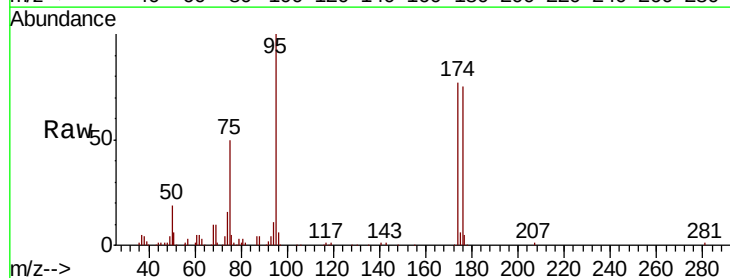
Tgt Ion: 75 Resp: 79722

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

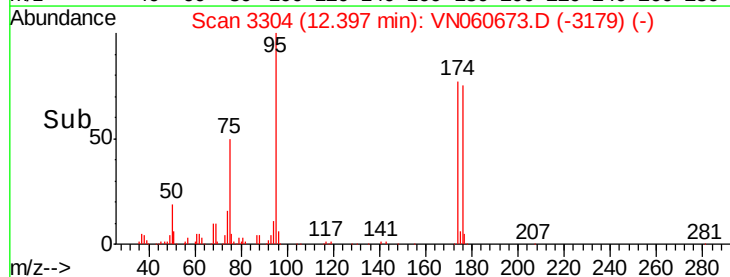
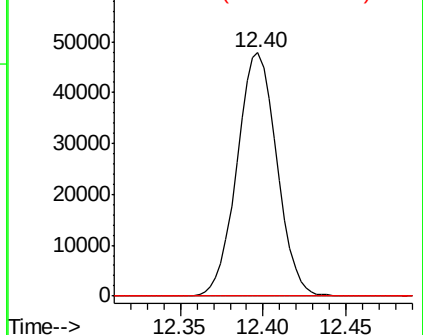
89 0.0 34.8 52.2#

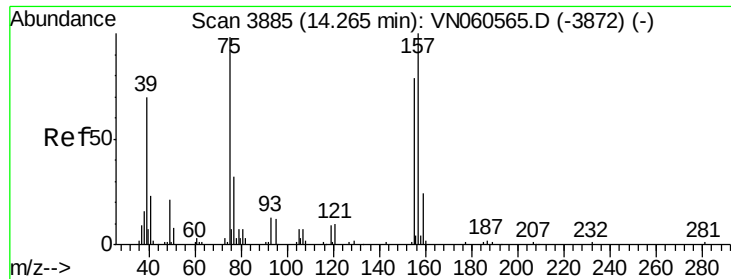


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.47 min Scan# 3950

Delta R.T. 0.21 min

Lab File: VN060673.D

Acq: 24 Mar 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

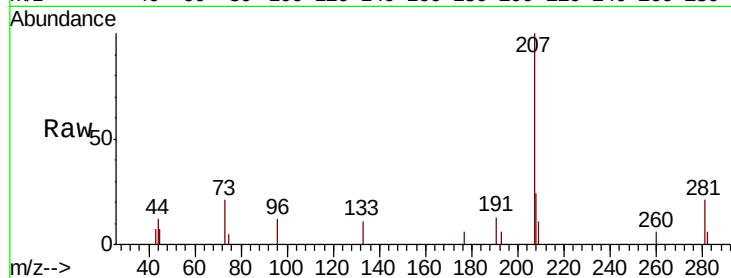
Tot Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 40.7 122.1#

157 0.0 51.5 154.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060673.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060673.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060673.D (-3791) (-)

