

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060846.D
 Acq On : 6 Apr 2020 13:19
 Operator : JC/MD
 Sample : L2129-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Quant Time: Apr 07 07:03:34 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

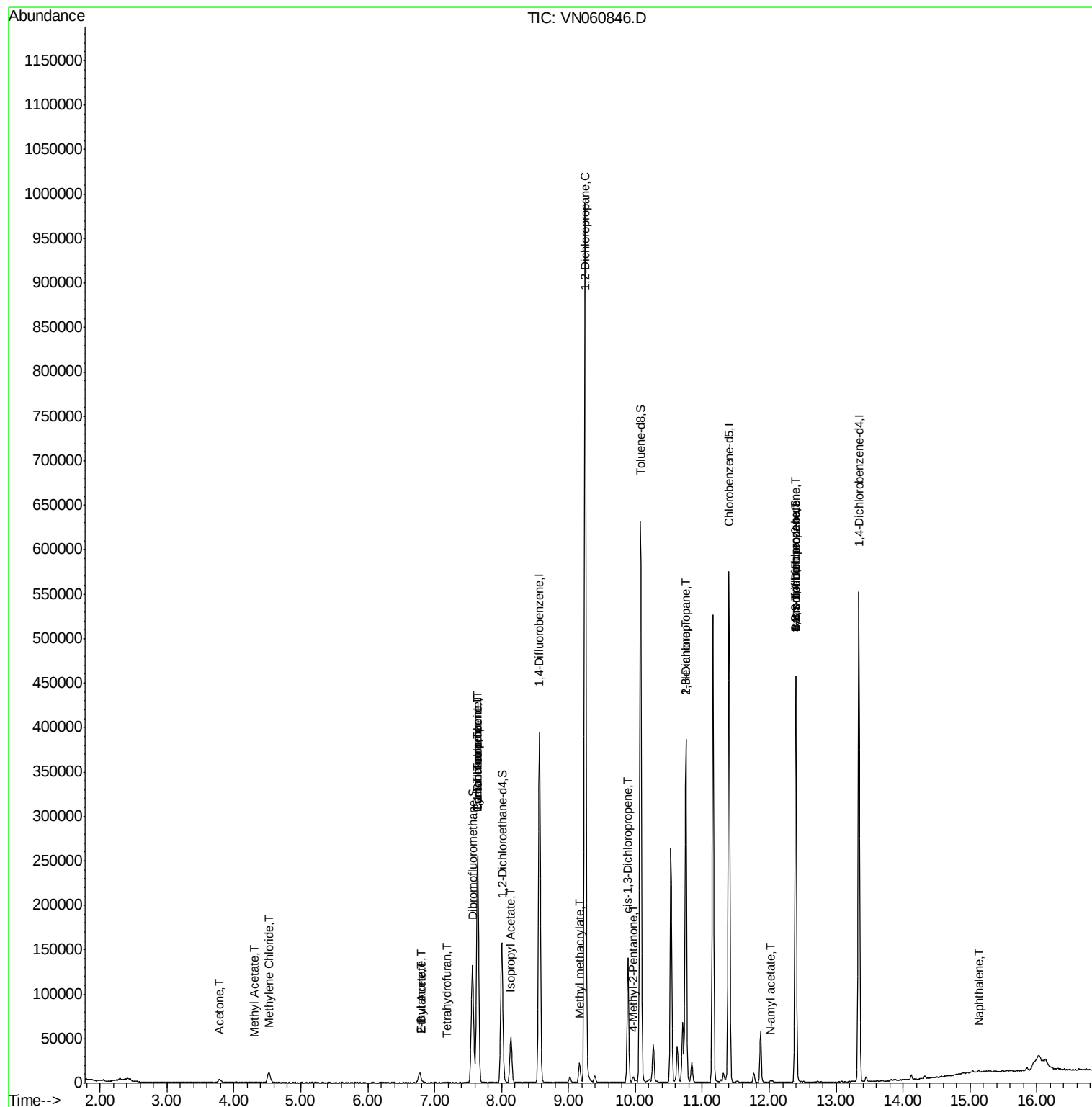
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	209285	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	350092	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	326829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145734	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	135403	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	
35) Dibromofluoromethane	7.57	113	103549	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
50) Toluene-d8	10.08	98	430839	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
62) 4-Bromofluorobenzene	12.40	95	161422	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
Target Compounds						
					Qvalue	
16) Acetone	3.79	43	7726	7.592	ug/l	97
18) Methyl Acetate	4.30	43	1890	0.660	ug/l #	54
20) Methylene Chloride	4.53	84	9047	3.614	ug/l	97
25) 2-Butanone	6.81	43	1866	1.133	ug/l #	50
29) Tetrahydrofuran	7.18	42	460	0.395	ug/l #	35
31) Cyclohexane	7.64	56	4243	0.917	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16616	4.902	ug/l #	50
37) Ethyl Acetate	6.81	43	1866	0.509	ug/l #	70
38) Carbon Tetrachloride	7.64	117	20449	6.730	ug/l #	16
43) Isopropyl Acetate	8.14	43	62680	10.376	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1052	0.390	ug/l #	43
48) Methyl methacrylate	9.17	41	3117	1.159	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4868	1.416	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	25630	5.996	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3806	0.922	ug/l #	42
59) 2-Hexanone	10.75	43	57866	23.369	ug/l #	52
71) Bromoform	12.39	173	361	1.859	ug/l #	1
74) N-amyl acetate	12.02	43	3093	0.612	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	80830	25.704	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	80830	66.016	ug/l #	13
95) Naphthalene	15.13	128	1998	0.243	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

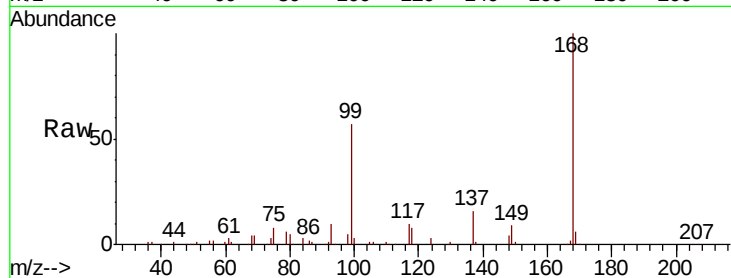
Instrument :
MSVOA_N
ClientSampled :
TP-9

Tot Ion:168 Resp: 209285

Ion Ratio Lower Upper

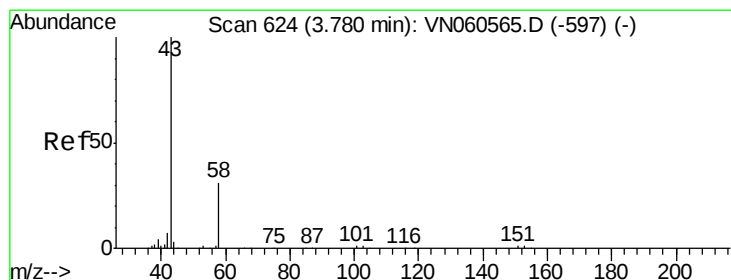
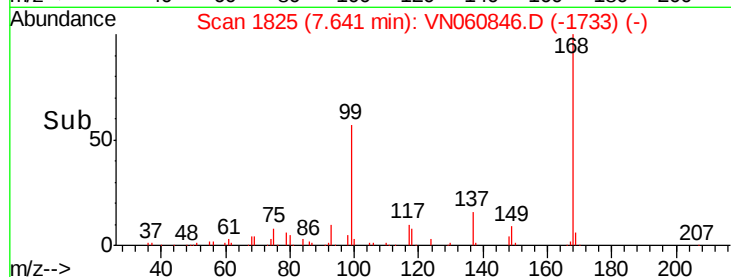
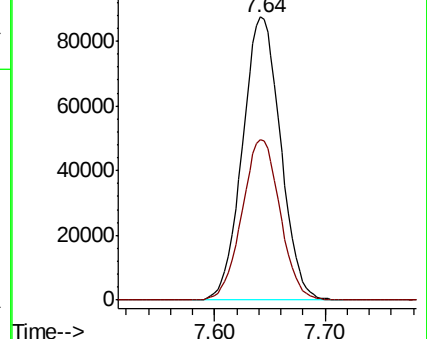
168 100

99 56.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 7.592 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060846.D

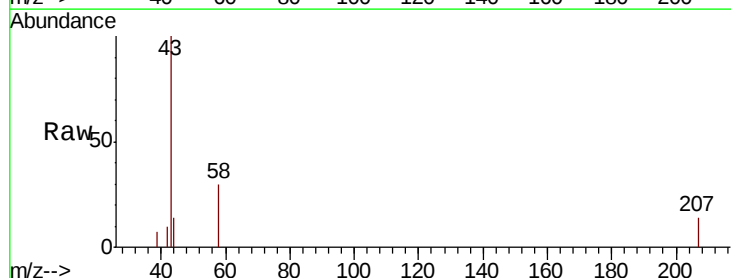
Acq: 6 Apr 2020 13:19

Tgt Ion: 43 Resp: 7726

Ion Ratio Lower Upper

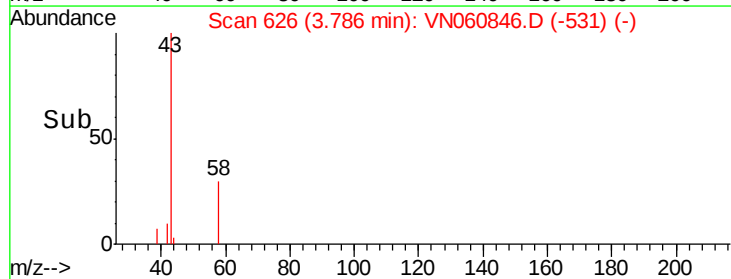
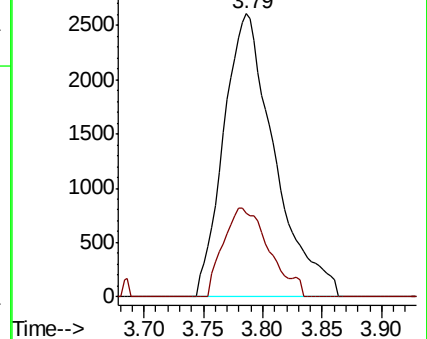
43 100

58 29.5 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

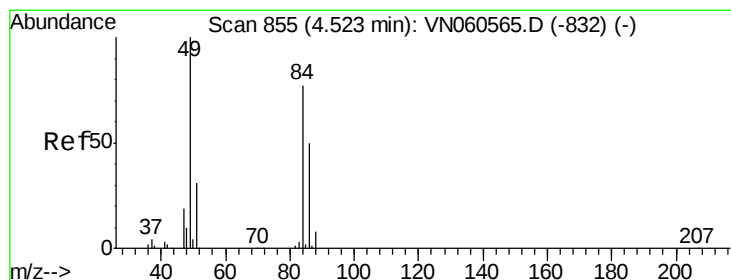
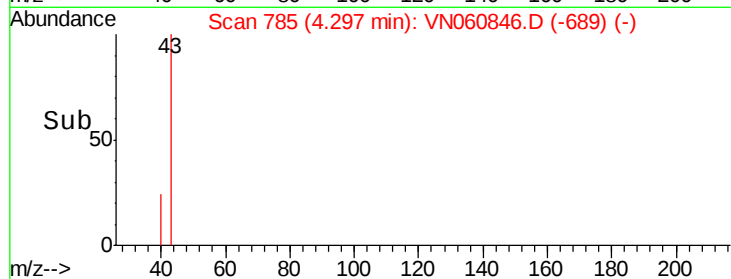
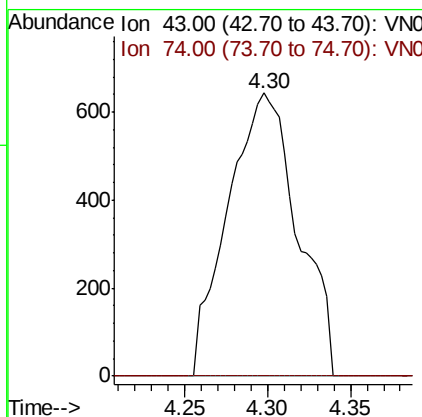
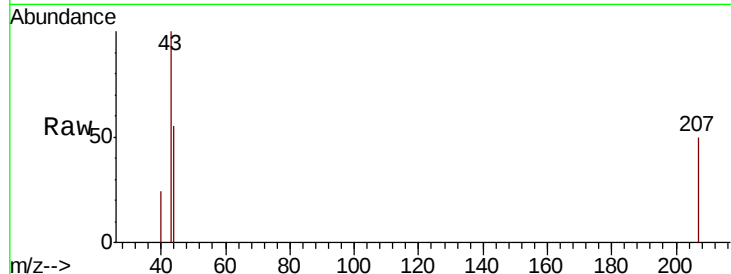




#18
Methyl Acetate
Concen: 0.660 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

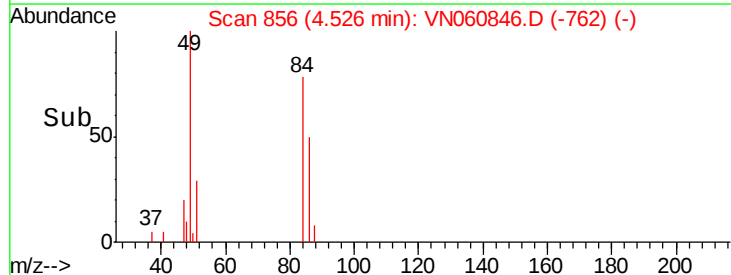
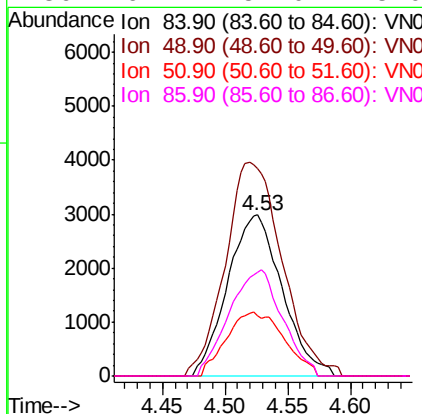
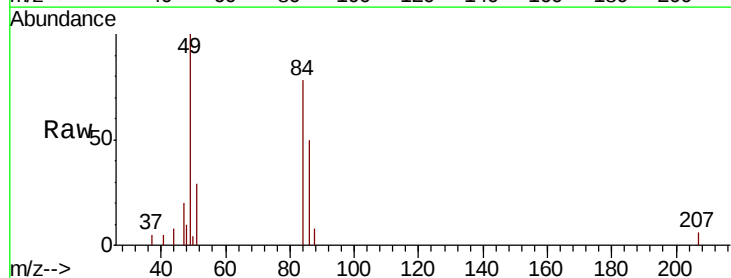
Instrument :
MSVOA_N
ClientSampled :
TP-9

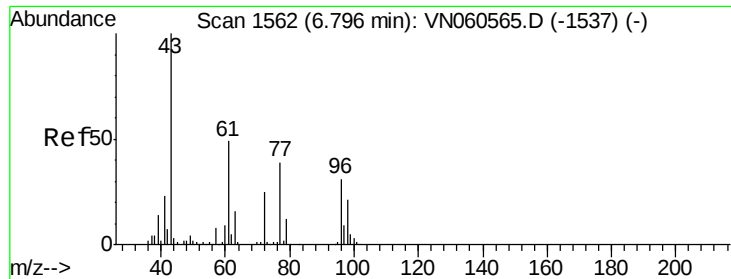
Tot Ion: 43 Resp: 1890
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.614 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

Tgt Ion: 84 Resp: 9047
Ion Ratio Lower Upper
84 100
49 123.8 103.3 154.9
51 37.7 31.6 47.4
86 64.1 52.0 78.0





#25

2-Butanone

Concen: 1.133 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

MSVOA_N

ClientSampled :

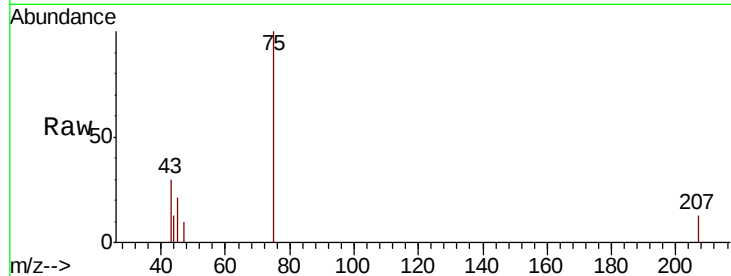
TP-9

Tot Ion: 43 Resp: 1866

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

600

500

400

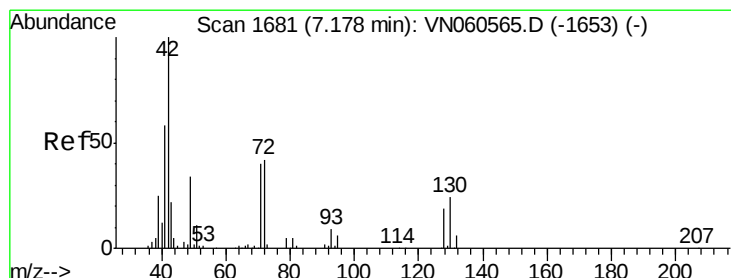
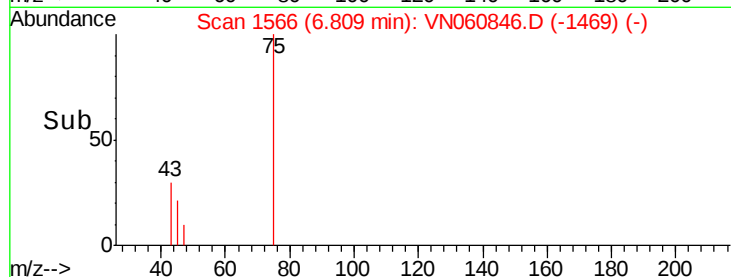
300

200

100

0

Time--> 6.70 6.75 6.80 6.85



#29

Tetrahydrofuran

Concen: 0.395 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

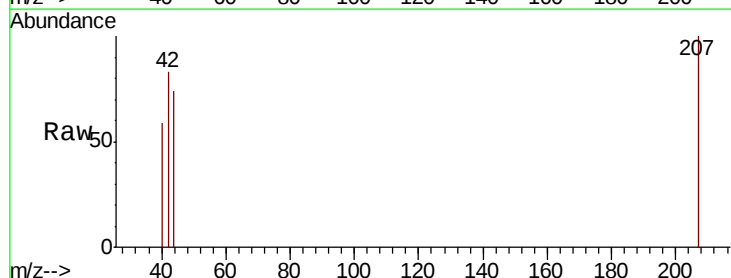
Tgt Ion: 42 Resp: 460

Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

300

250

200

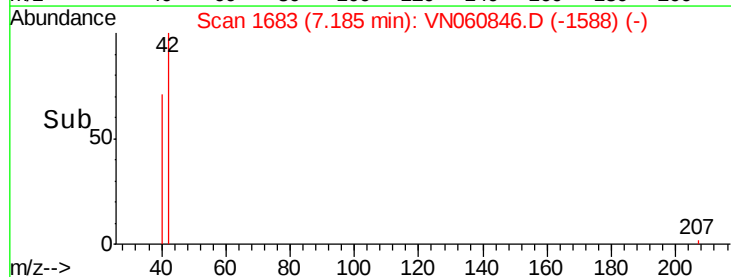
150

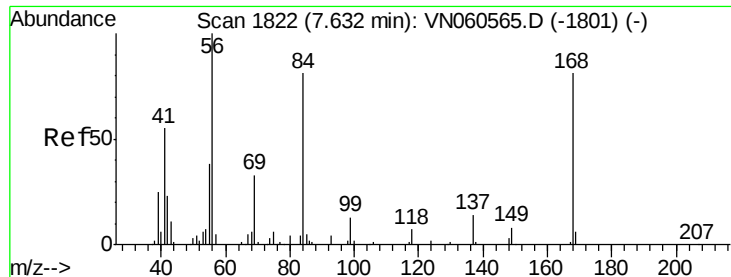
100

50

0

Time--> 7.14 7.16 7.18 7.20 7.22

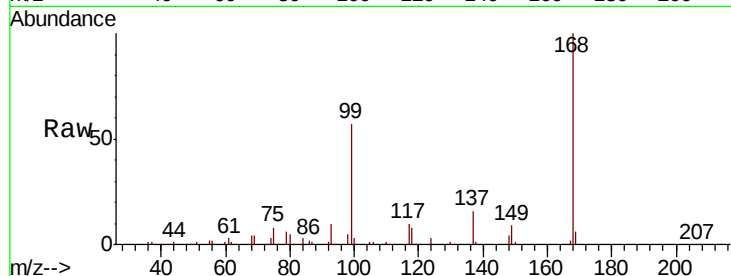




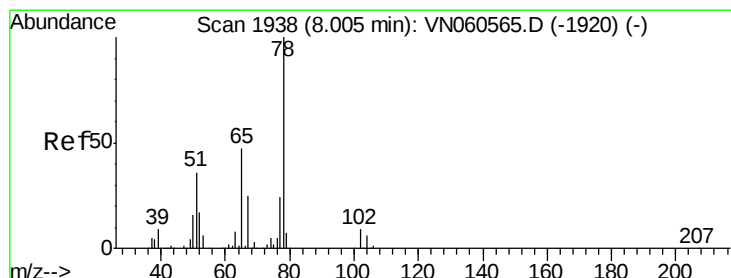
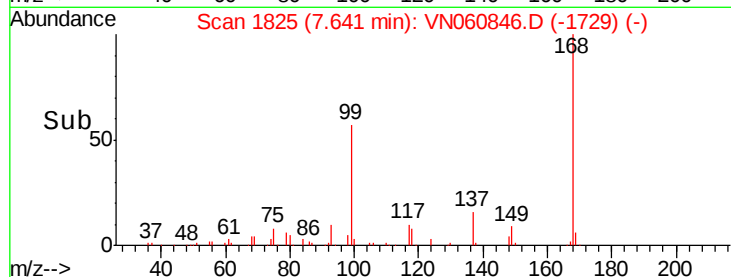
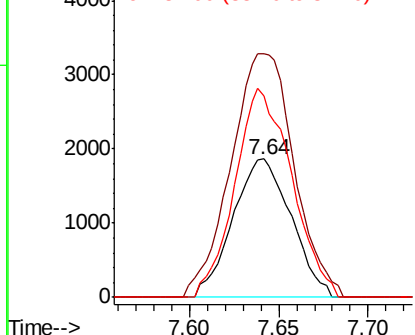
#31
Cyclohexane
Concen: 0.917 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

Instrument :
MSVOA_N
ClientSampled :
TP-9

Tot Ion: 56 Resp: 4243
Ion Ratio Lower Upper
56 100
69 167.0 26.6 40.0#
84 145.3 64.3 96.5#

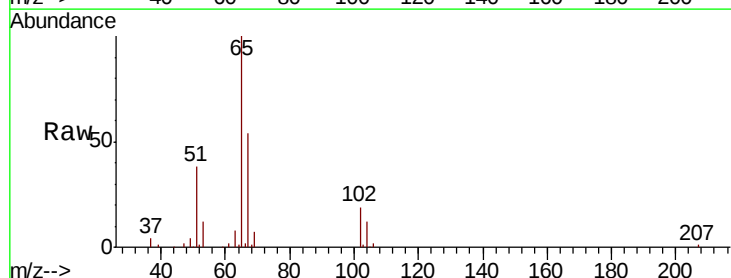


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

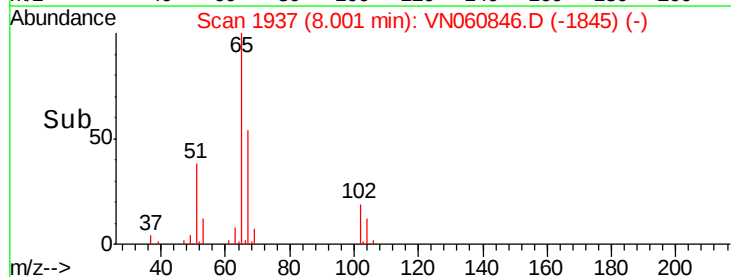
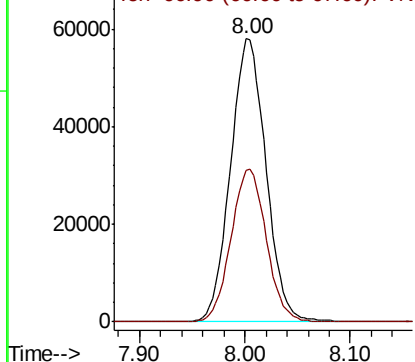


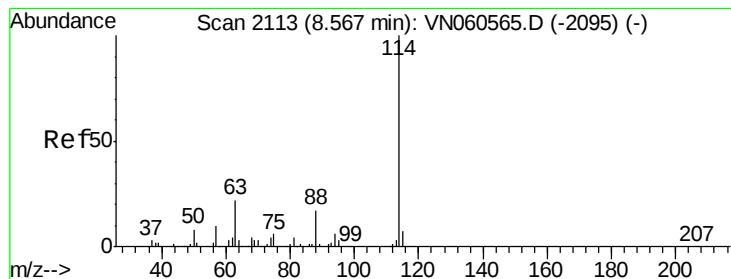
#33
1,2-Dichloroethane-d4
Concen: 47.129 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

Tgt Ion: 65 Resp: 135403
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.6



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: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

MSVOA_N

ClientSampleId :

TP-9

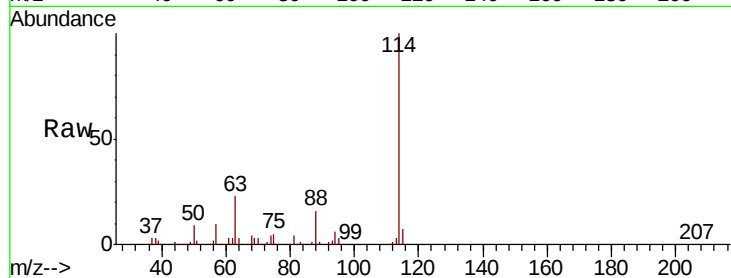
Tot Ion:114 Resp: 350092

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.8

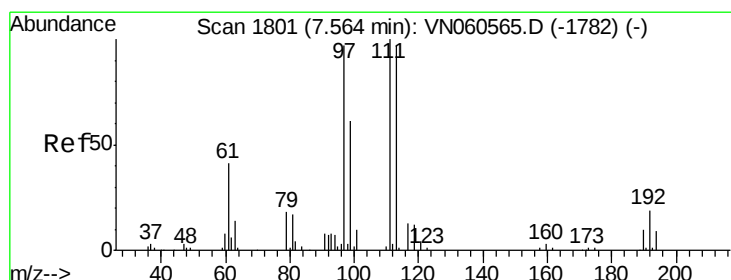
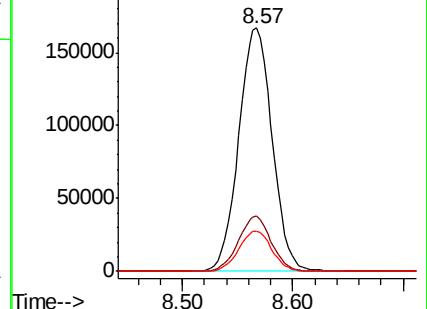
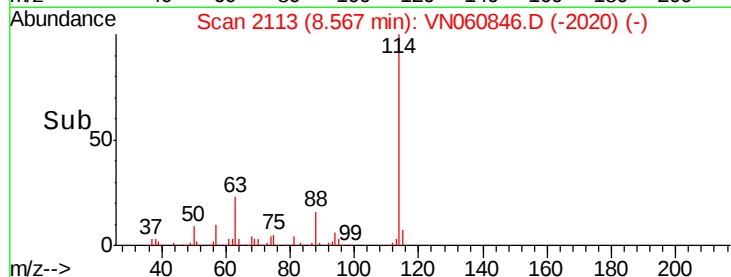
88 16.4 0.0 33.0



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: 48.915 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

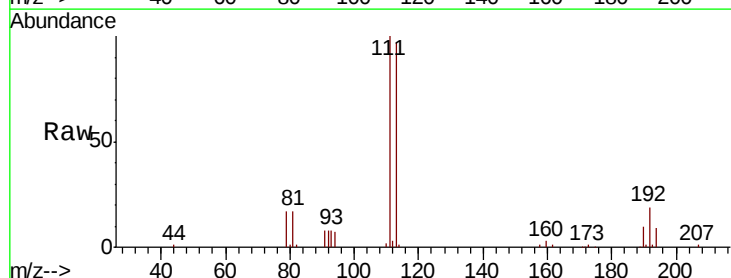
Tgt Ion:113 Resp: 103549

Ion Ratio Lower Upper

113 100

111 103.2 82.9 124.3

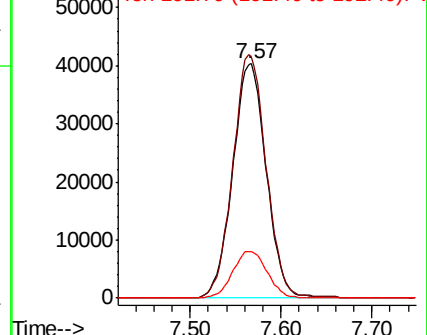
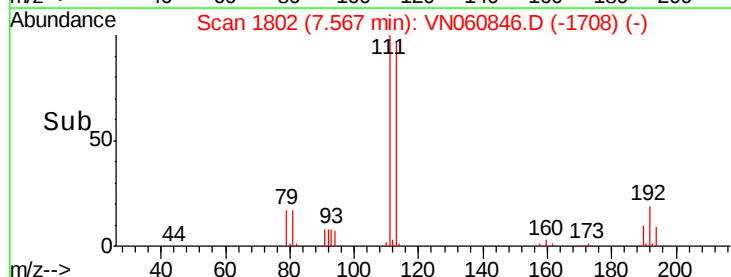
192 20.3 15.8 23.8

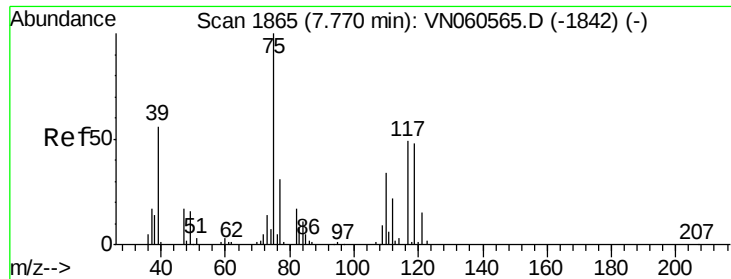


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.902 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

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TP-9

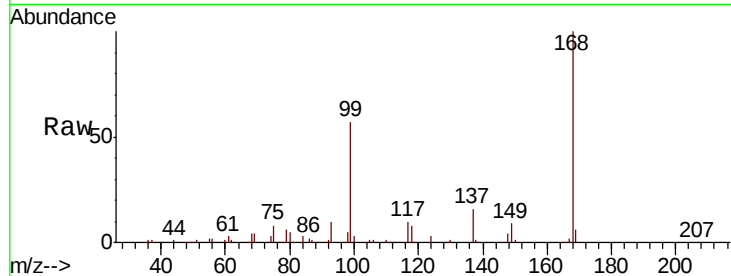
Tot Ion: 75 Resp: 16616

Ion Ratio Lower Upper

75 100

110 7.8 16.9 50.6#

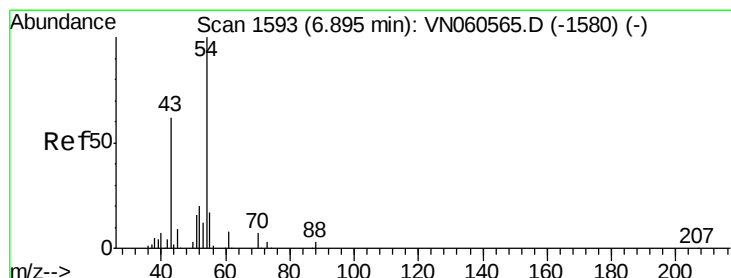
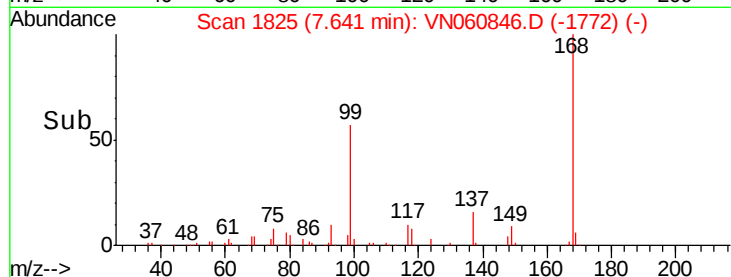
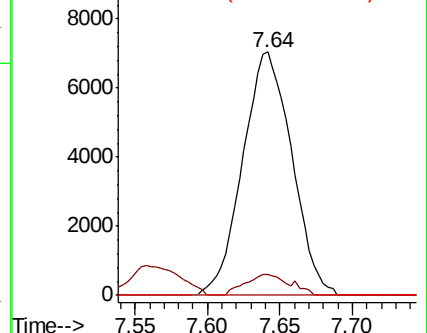
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.509 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

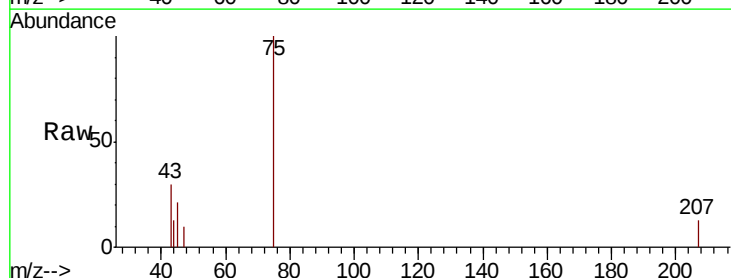
Tgt Ion: 43 Resp: 1866

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

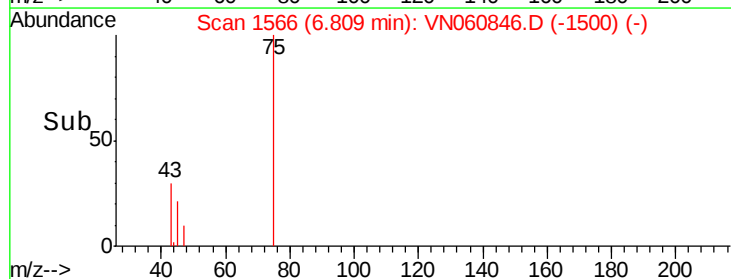
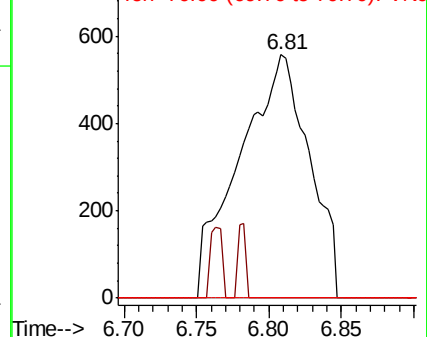
70 0.0 7.9 11.9#

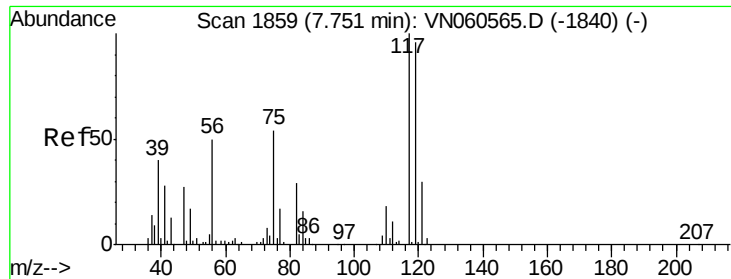


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.730 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

MSVOA_N

ClientSampled :

TP-9

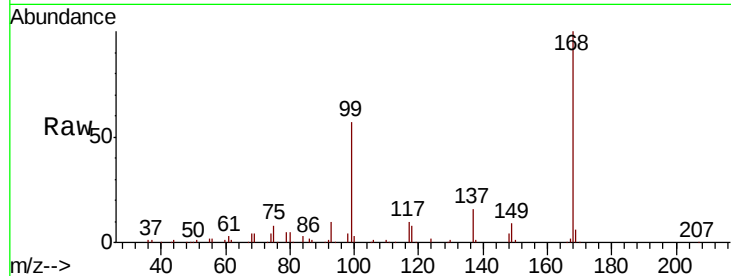
Tot Ion:117 Resp: 20449

Ion Ratio Lower Upper

117 100

119 4.2 76.2 114.2#

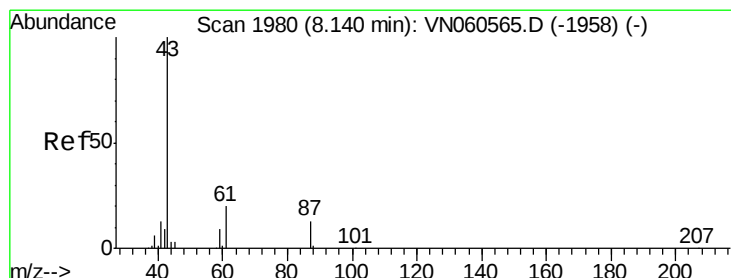
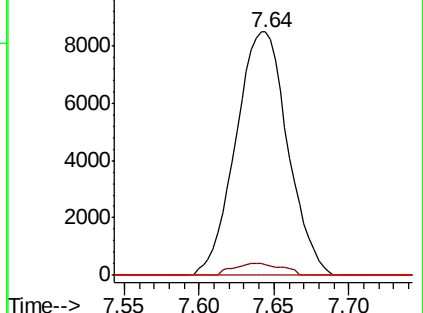
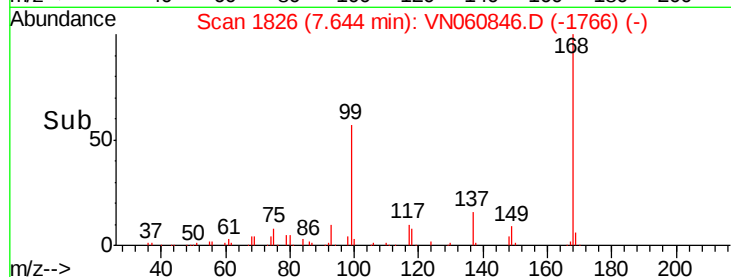
121 0.0 23.7 35.5#



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: 10.376 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

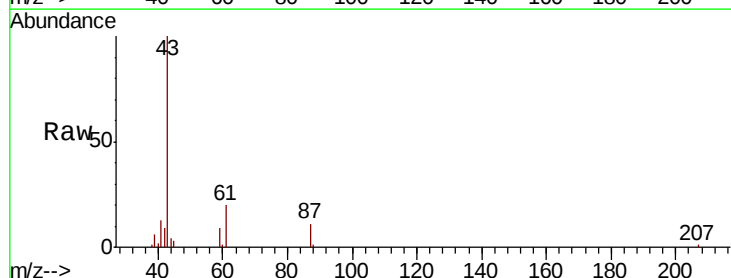
Tgt Ion: 43 Resp: 62680

Ion Ratio Lower Upper

43 100

61 19.8 20.7 31.1#

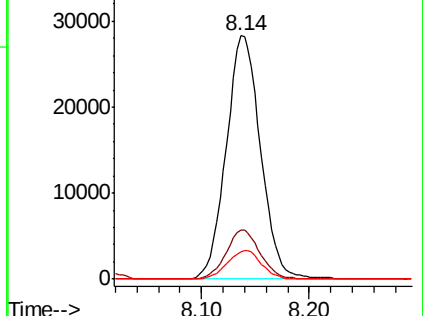
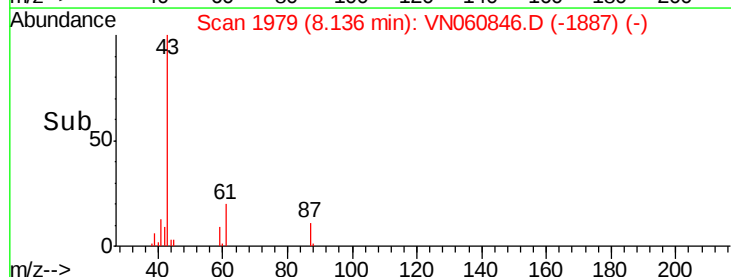
87 11.4 9.8 14.8

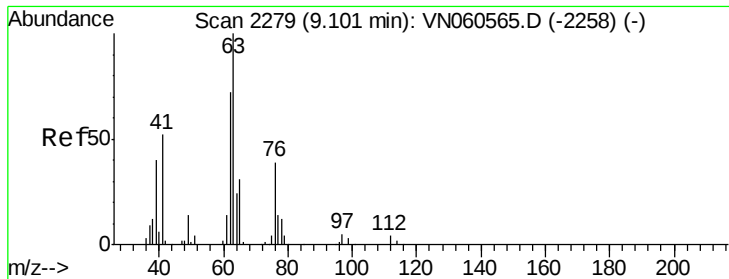


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.390 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

MSVOA_N

ClientSampleId :

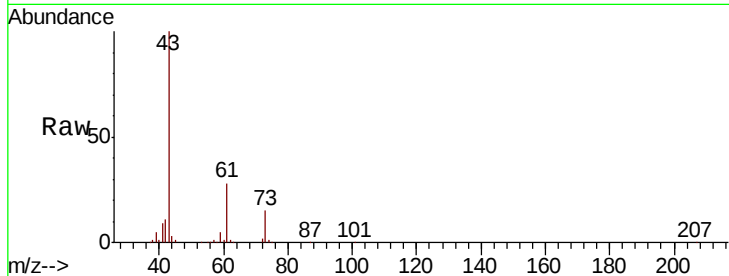
TP-9

Tot Ion: 63 Resp: 1052

Ion Ratio Lower Upper

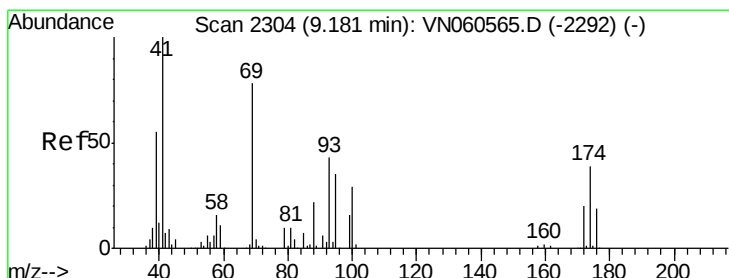
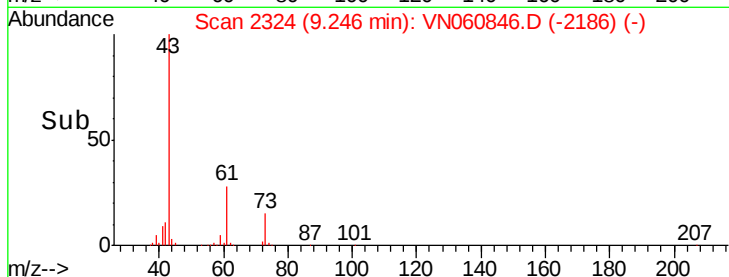
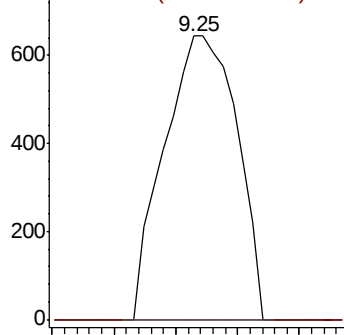
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.159 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

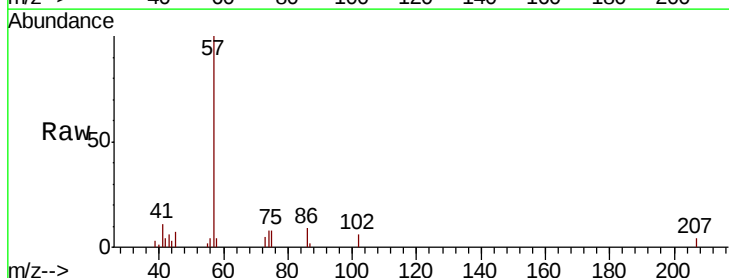
Tgt Ion: 41 Resp: 3117

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

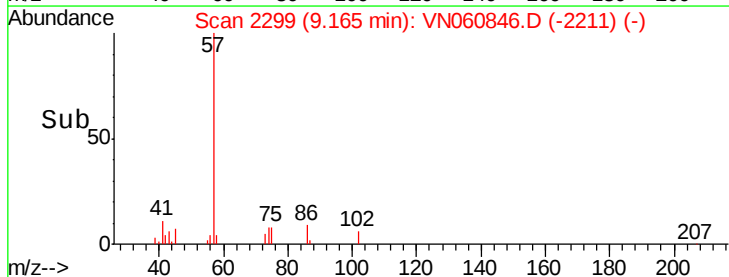
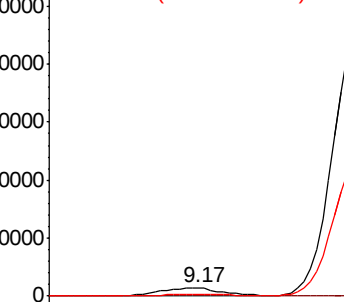
39 0.0 44.0 66.0#

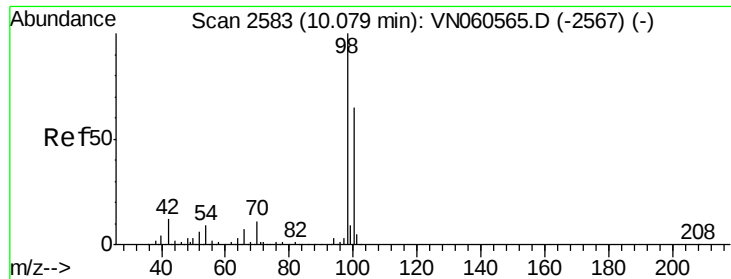


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

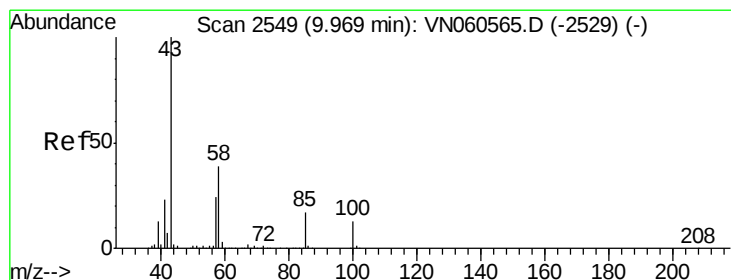
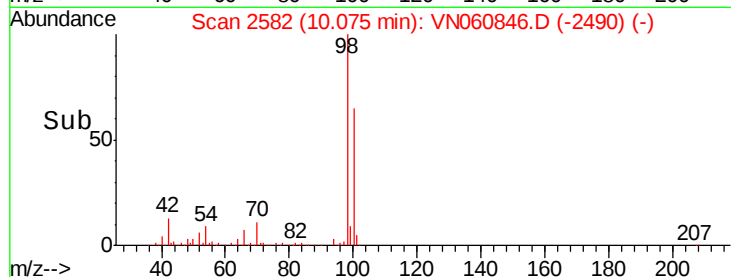
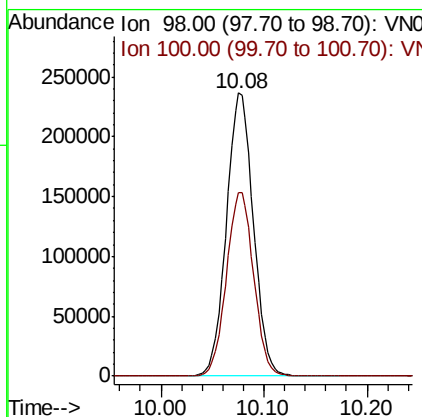
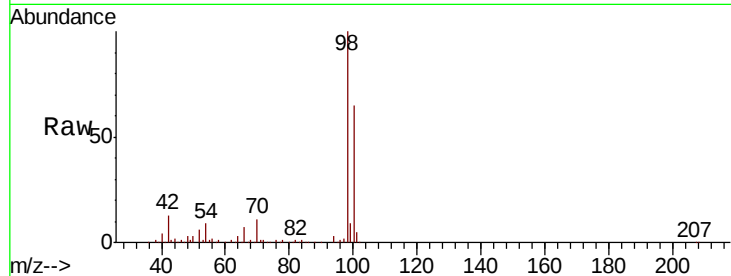




#50
Toluene-d8
Concen: 49.827 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

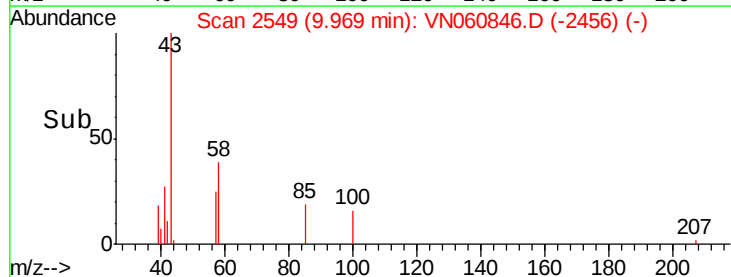
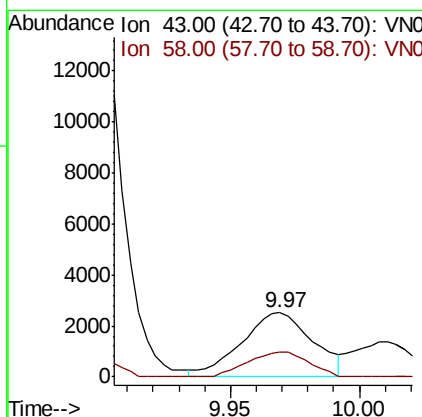
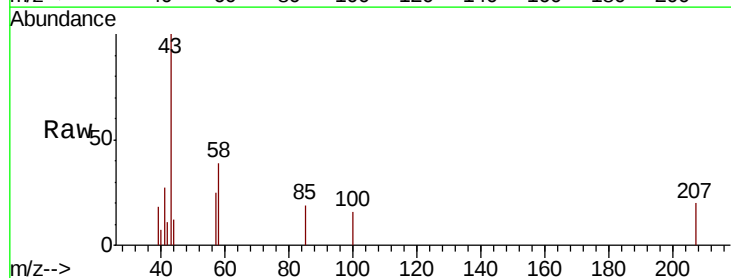
Instrument :
MSVOA_N
ClientSampled :
TP-9

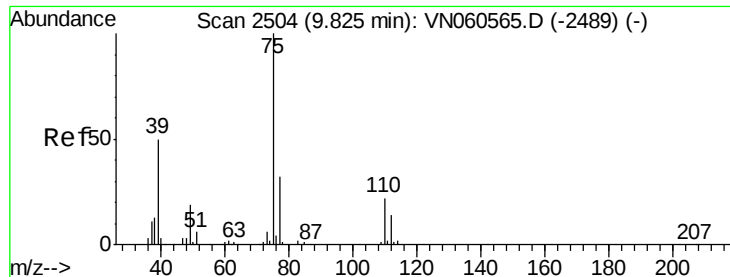
Tot Ion: 98 Resp: 430839
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.416 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

Tgt Ion: 43 Resp: 4868
Ion Ratio Lower Upper
43 100
58 33.4 30.8 46.2



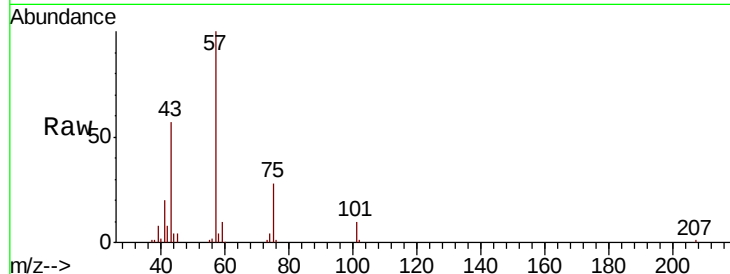


#54

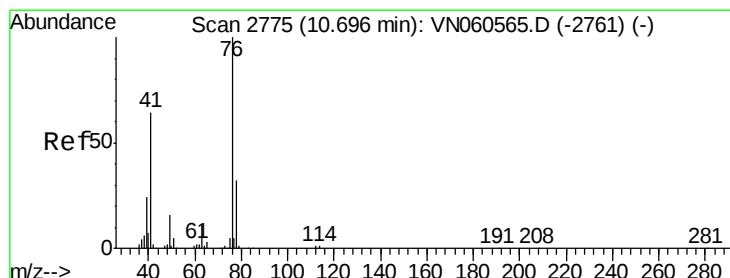
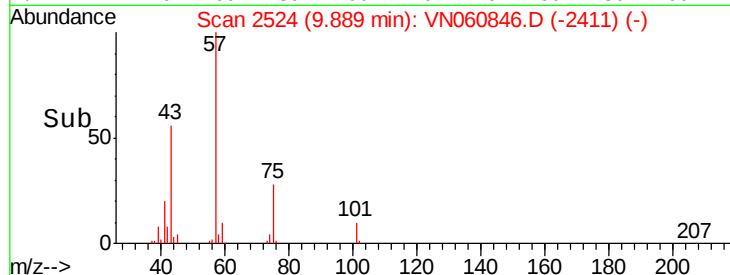
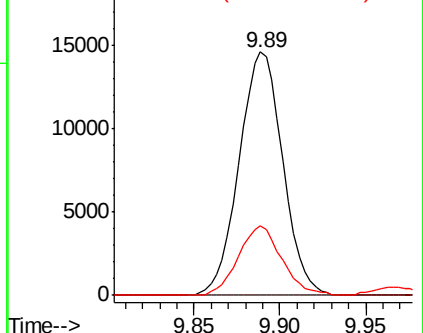
cis-1,3-Dichloropropene
 Concen: 5.996 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060846.D
 Acq: 6 Apr 2020 13:19

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.4	38.0#
39	28.5	40.2	60.4#



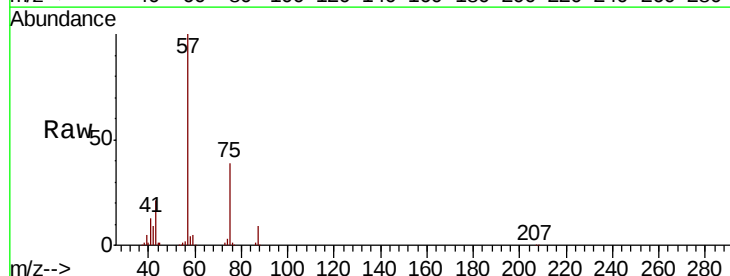
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



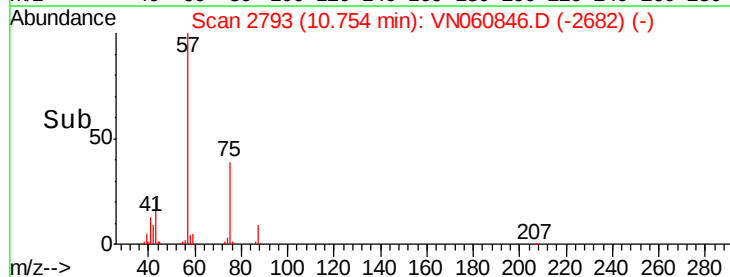
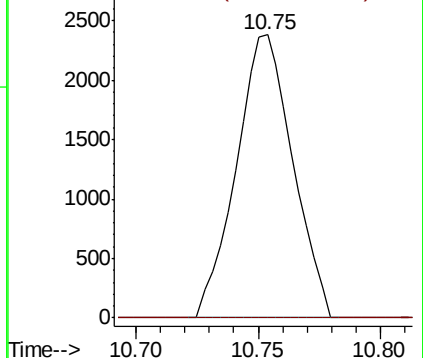
#57

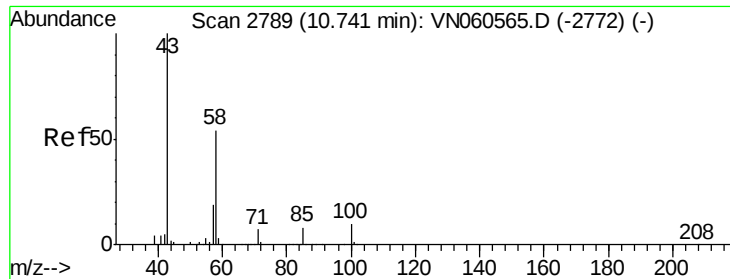
1,3-Dichloropropane
 Concen: 0.922 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060846.D
 Acq: 6 Apr 2020 13:19

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

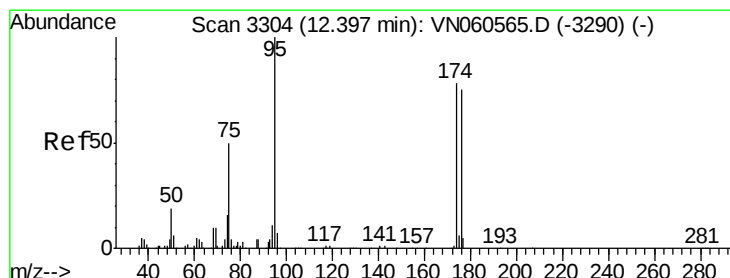
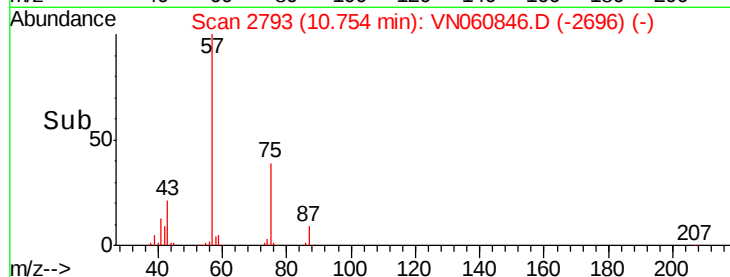
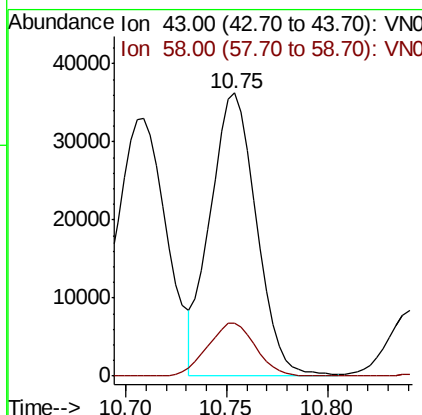
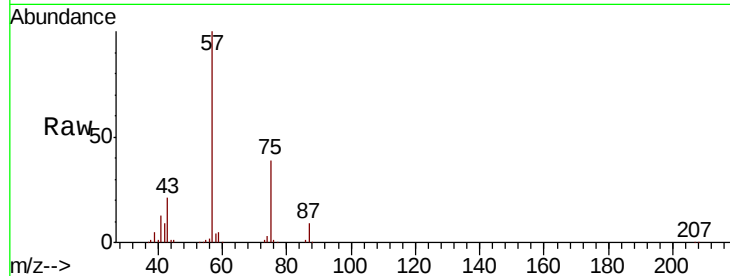




#59
2-Hexanone
Concen: 23.369 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

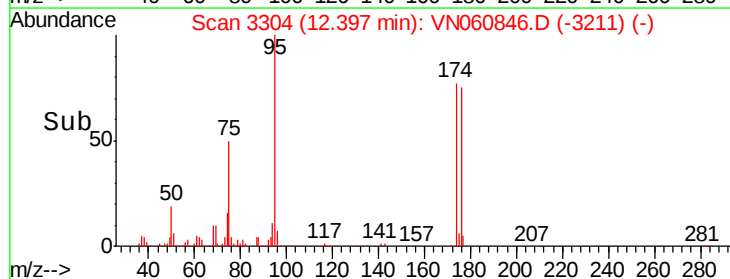
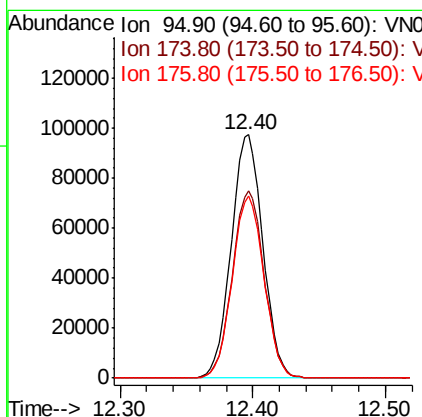
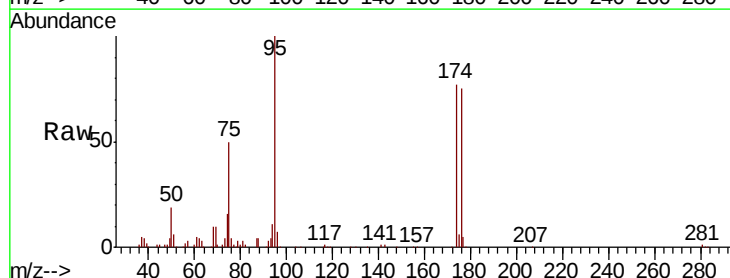
Instrument :
MSVOA_N
ClientSampleId :
TP-9

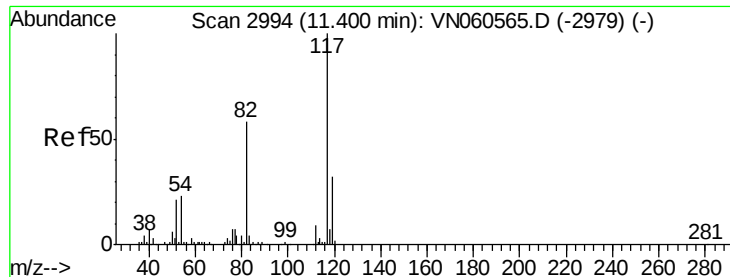
Tot Ion: 43 Resp: 57866
Ion Ratio Lower Upper
43 100
58 19.3 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 50.940 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

Tgt Ion: 95 Resp: 161422
Ion Ratio Lower Upper
95 100
174 77.5 0.0 157.6
176 75.0 0.0 150.6

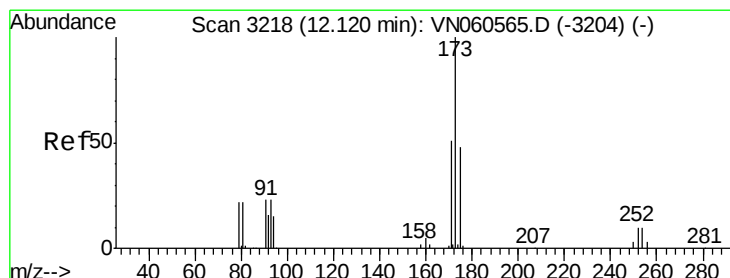
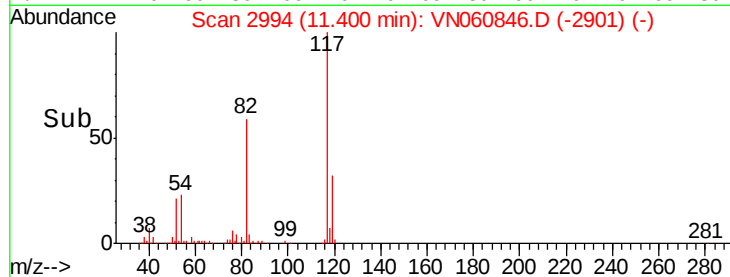
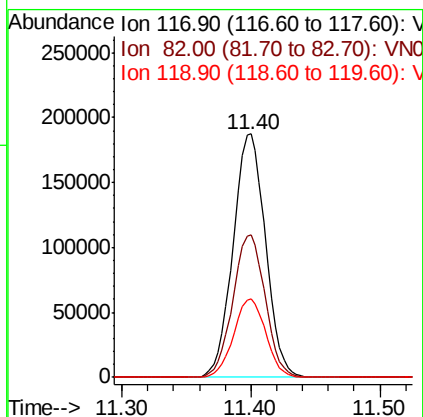
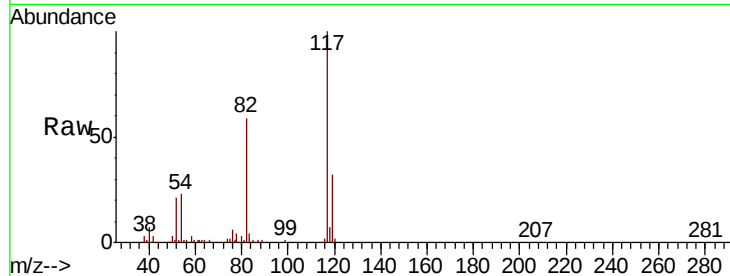




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

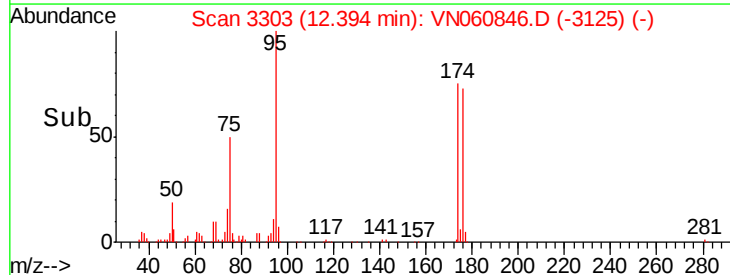
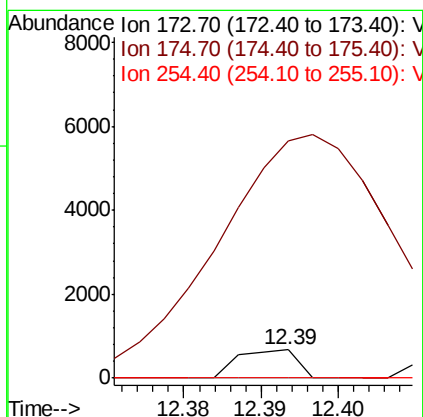
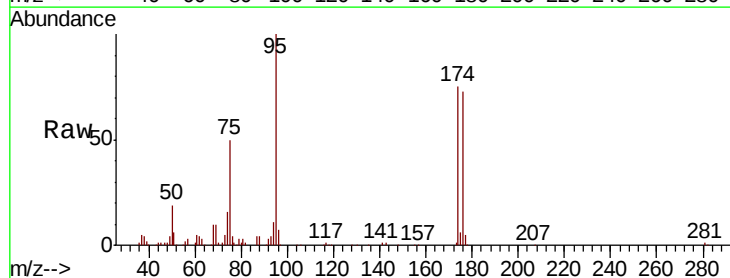
Instrument :
MSVOA_N
ClientSampled :
TP-9

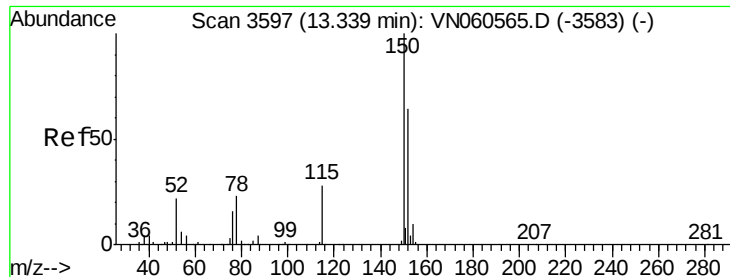
Tot Ion:117 Resp: 326829
Ion Ratio Lower Upper
117 100
82 58.7 46.7 70.1
119 32.2 25.5 38.3



#71
Bromoform
Concen: 1.859 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060846.D
Acq: 6 Apr 2020 13:19

Tgt Ion:173 Resp: 361
Ion Ratio Lower Upper
173 100
175 2270.9 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

MSVOA_N

ClientSampleId :

TP-9

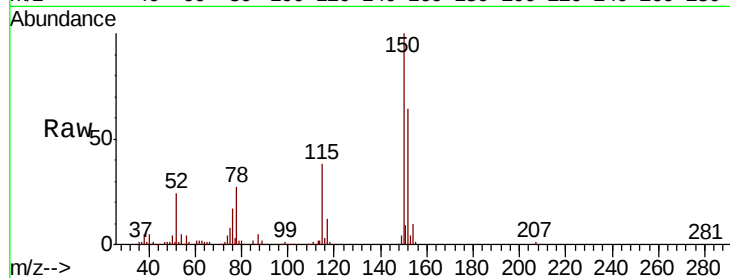
Tot Ion:152 Resp: 145734

Ion Ratio Lower Upper

152 100

115 59.8 30.2 90.6

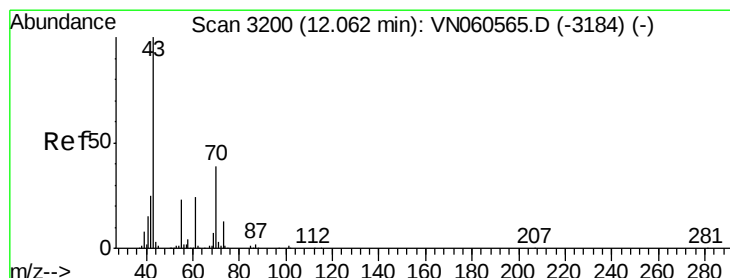
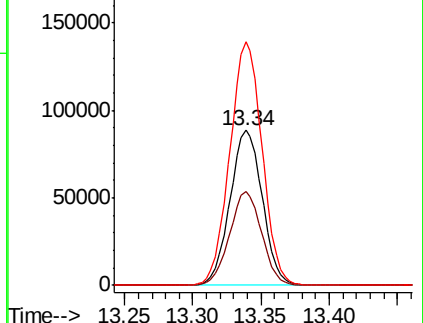
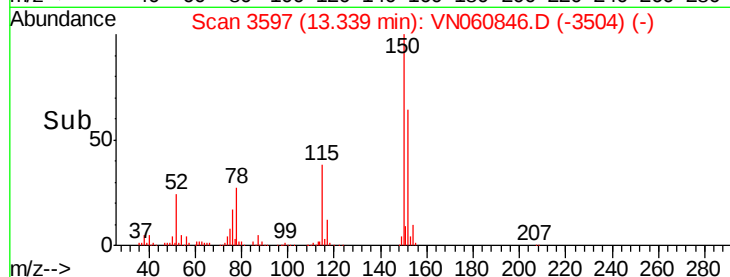
150 157.2 0.0 350.2



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-ethyl acetate

Concen: 0.612 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Tgt Ion: 43 Resp: 3093

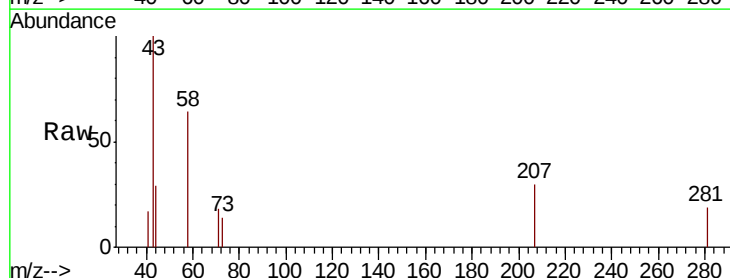
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

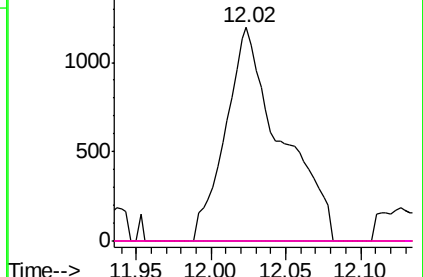
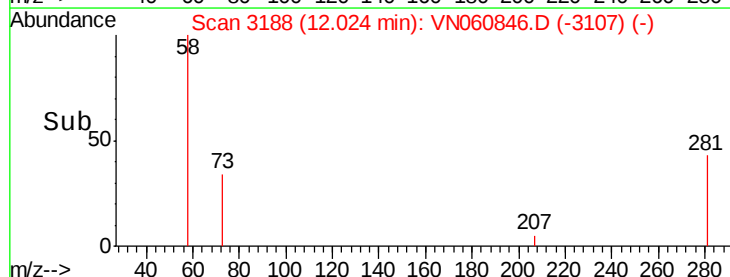


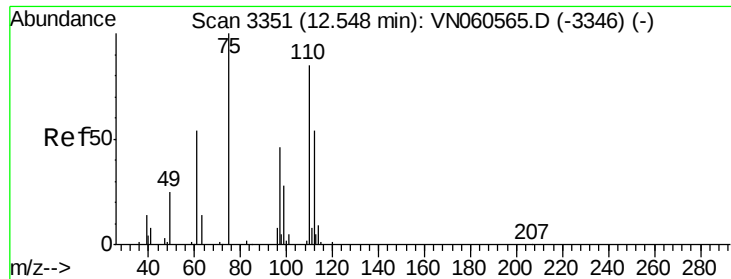
Abundance Ion 43.00 (42.70 to 43.70): V

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: 25.704 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

MSVOA_N

ClientSampled :

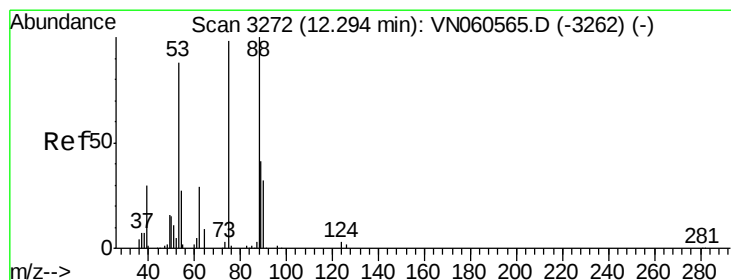
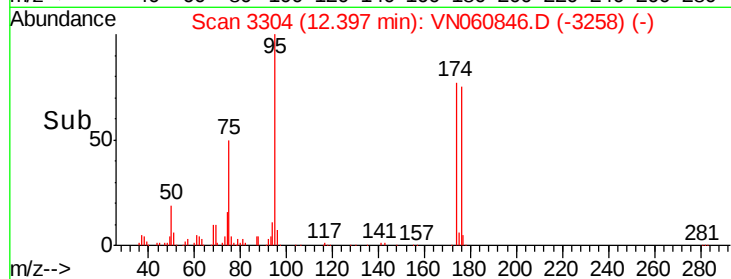
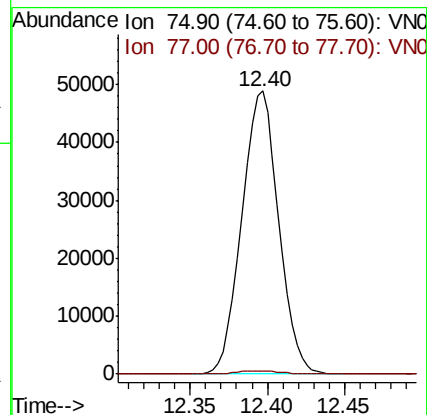
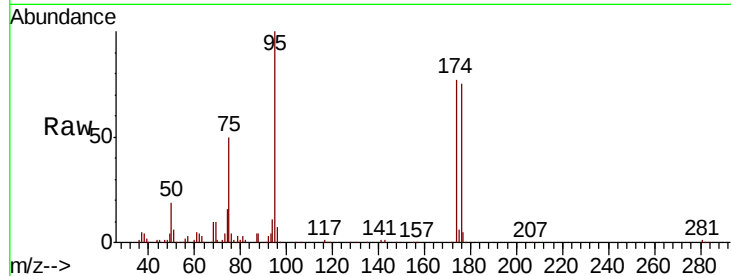
TP-9

Tot Ion: 75 Resp: 80830

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.016 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

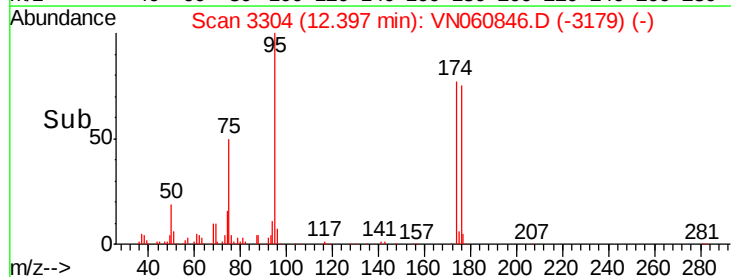
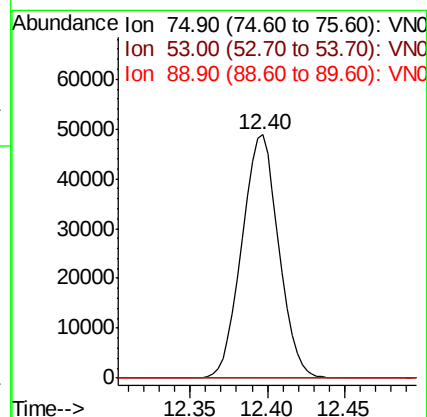
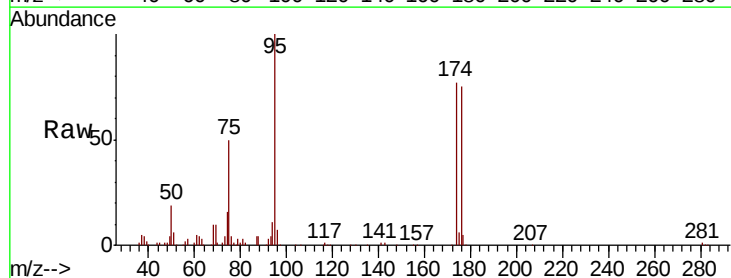
Tgt Ion: 75 Resp: 80830

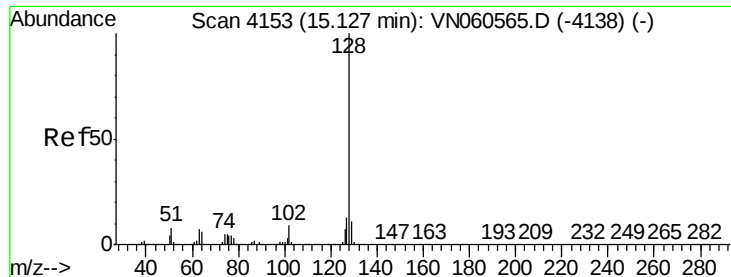
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#95

Naphthalene

Concen: 0.243 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060846.D

Acq: 6 Apr 2020 13:19

Instrument :

MSVOA_N

ClientSampleId :

TP-9

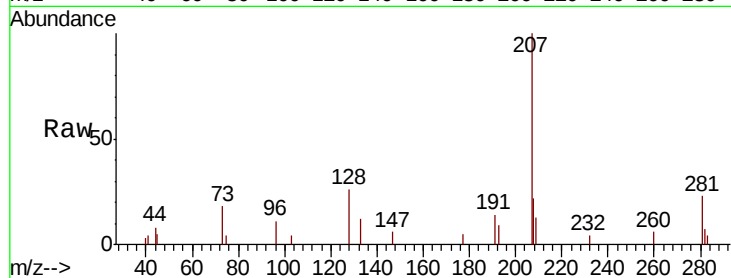
Tot Ion:128 Resp: 1998

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 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

