

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060865.D
 Acq On : 6 Apr 2020 20:29
 Operator : JC/MD
 Sample : L2162-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-50-COMP

Quant Time: Apr 07 07:08:32 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	211677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	350862	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	326786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150971	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	134398	46.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.50%	
35) Dibromofluoromethane	7.56	113	103222	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	
50) Toluene-d8	10.08	98	429879	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	162863	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	

Target Compounds

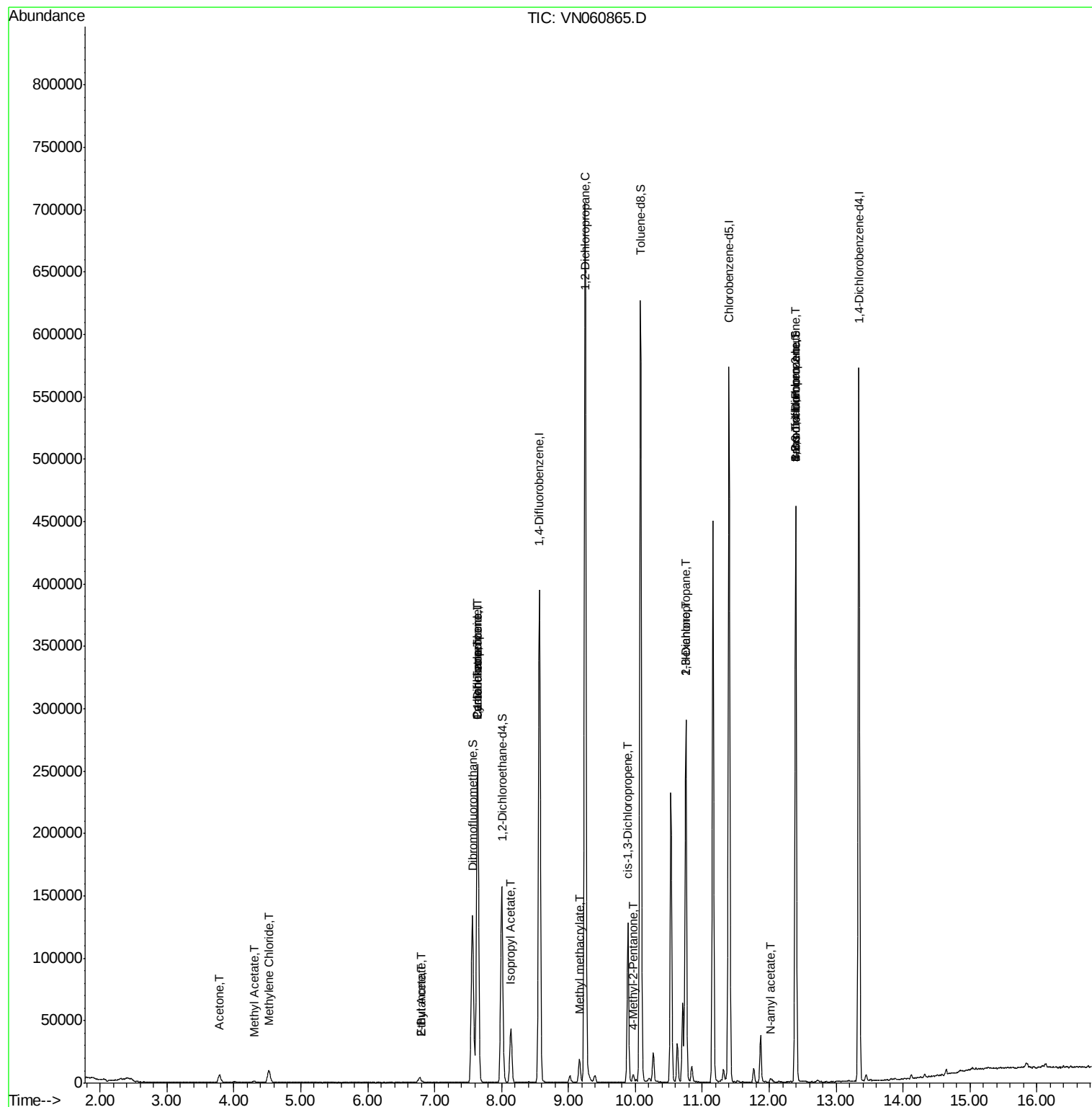
						Qvalue
16) Acetone	3.78	43	11479	11.152	ug/l	92
18) Methyl Acetate	4.30	43	1976	0.682	ug/l #	54
20) Methylene Chloride	4.52	84	7488	2.957	ug/l	97
25) 2-Butanone	6.82	43	1450	0.871	ug/l #	50
31) Cyclohexane	7.64	56	4281	0.915	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16308	4.800	ug/l #	46
37) Ethyl Acetate	6.82	43	1450	0.395	ug/l #	70
38) Carbon Tetrachloride	7.64	117	20039	6.581	ug/l #	16
43) Isopropyl Acetate	8.14	43	52851	8.730	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	773	0.286	ug/l #	43
48) Methyl methacrylate	9.16	41	2695	1.000	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4893	1.420	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	21852	5.101	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2896	0.700	ug/l #	42
59) 2-Hexanone	10.75	43	43337	17.463	ug/l #	52
71) Bromoform	12.40	173	945	2.149	ug/l #	1
74) N-amyl acetate	12.02	43	2161	0.413	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	79925	24.535	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79925	63.012	ug/l #	13

(#) = 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: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

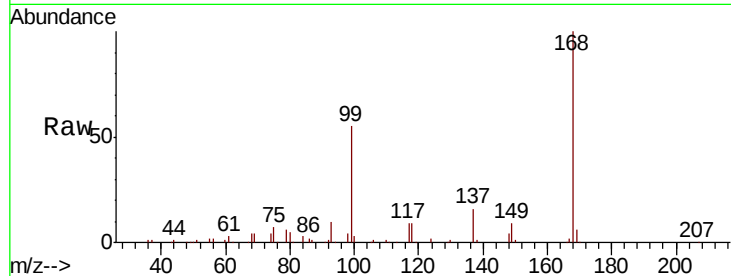
TP-50-COMP

Tot Ion:168 Resp: 211677

Ion Ratio Lower Upper

168 100

99 55.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

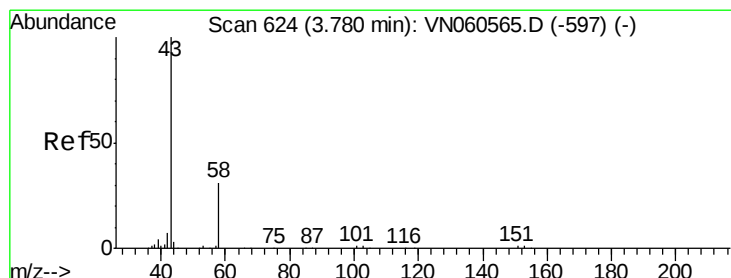
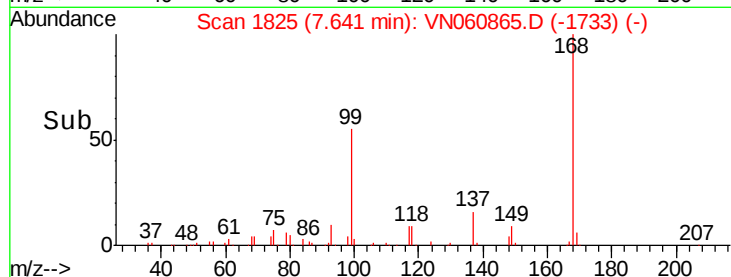
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 11.152 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060865.D

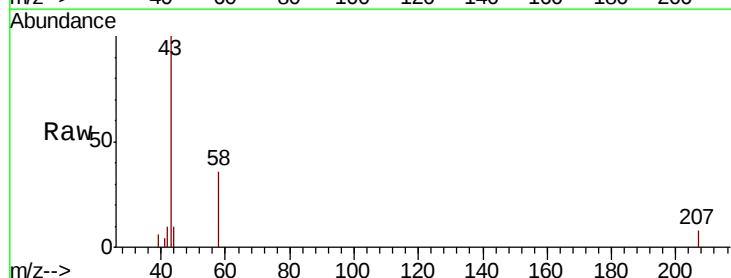
Acq: 6 Apr 2020 20:29

Tgt Ion: 43 Resp: 11479

Ion Ratio Lower Upper

43 100

58 35.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

4000

3000

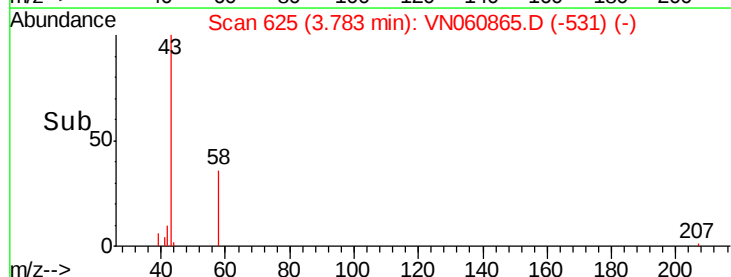
2000

1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

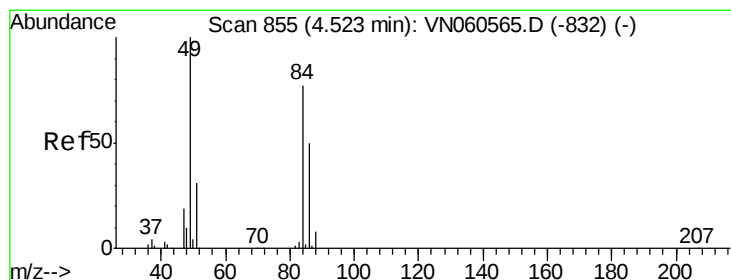
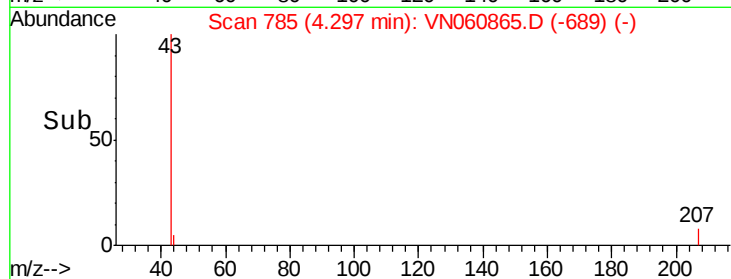
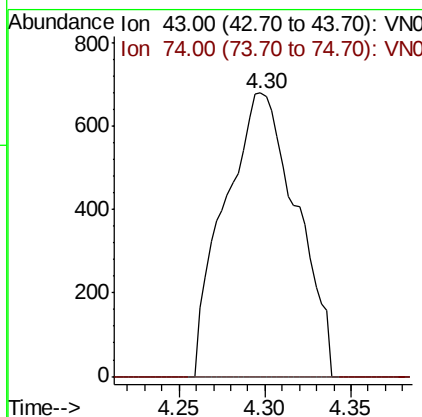
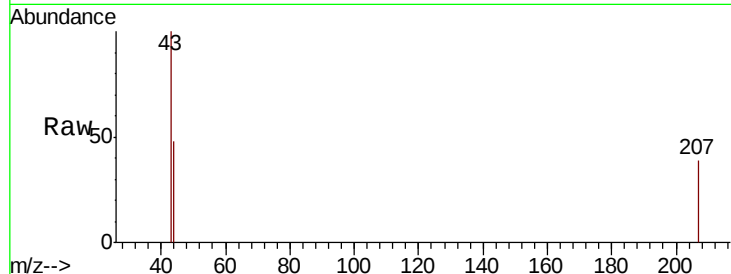




#18
Methyl Acetate
Concen: 0.682 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

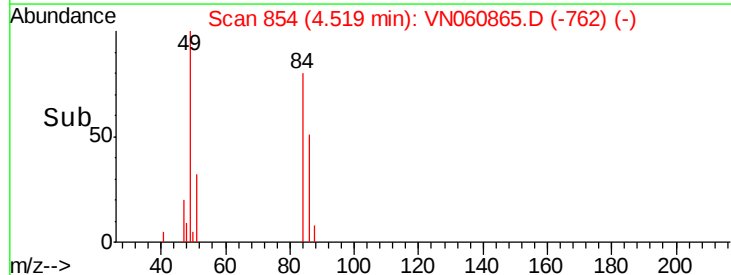
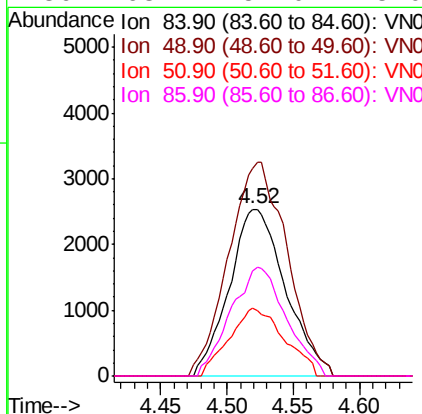
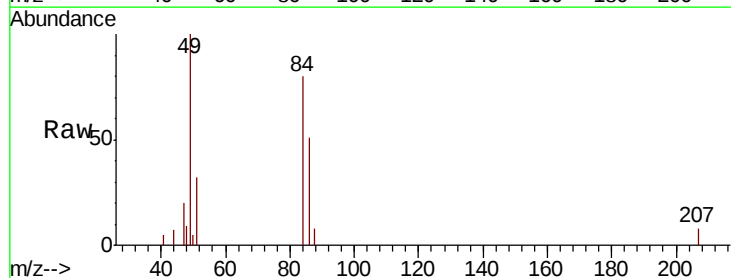
Instrument :
MSVOA_N
ClientSampled :
TP-50-COMP

Tot Ion: 43 Resp: 1976
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.957 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

Tgt Ion: 84 Resp: 7488
Ion Ratio Lower Upper
84 100
49 124.7 103.3 154.9
51 40.4 31.6 47.4
86 63.1 52.0 78.0

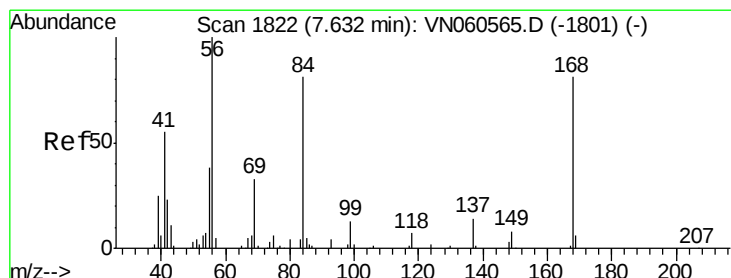
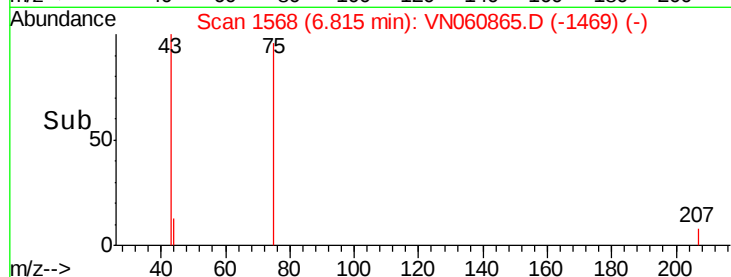
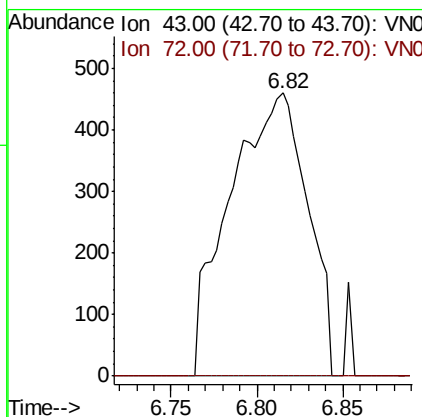
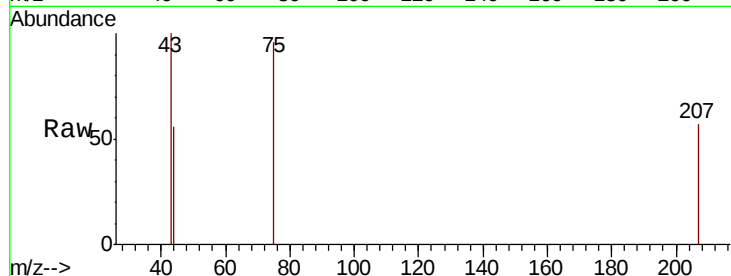




#25
2-Butanone
Concen: 0.871 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

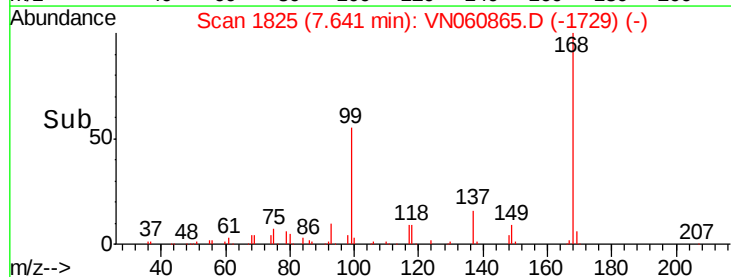
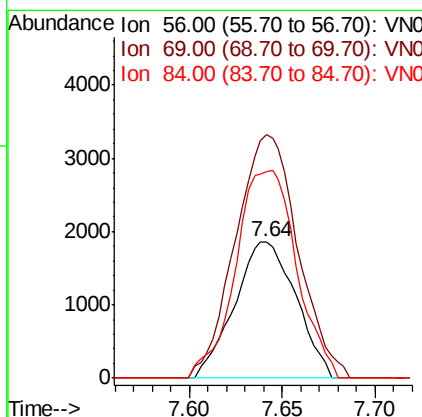
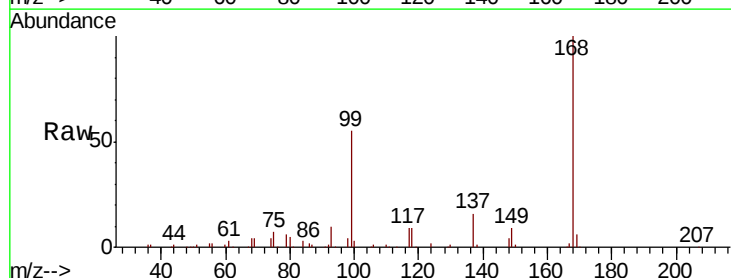
Instrument :
MSVOA_N
ClientSampleId :
TP-50-COMP

Tot Ion: 43 Resp: 1450
Ion Ratio Lower Upper
43 100
72 0.0 20.4 30.6#



#31
Cyclohexane
Concen: 0.915 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

Tgt Ion: 56 Resp: 4281
Ion Ratio Lower Upper
56 100
69 178.7 26.6 40.0#
84 151.4 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 46.251 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

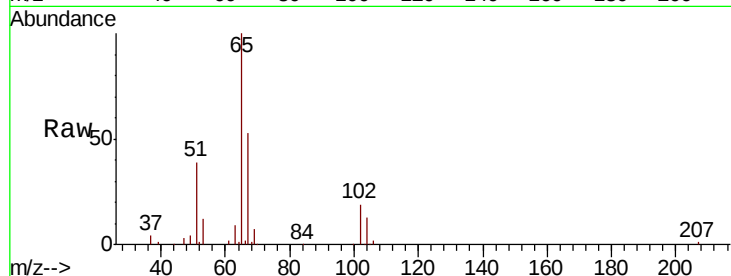
TP-50-COMP

Tot Ion: 65 Resp: 134398

Ion Ratio Lower Upper

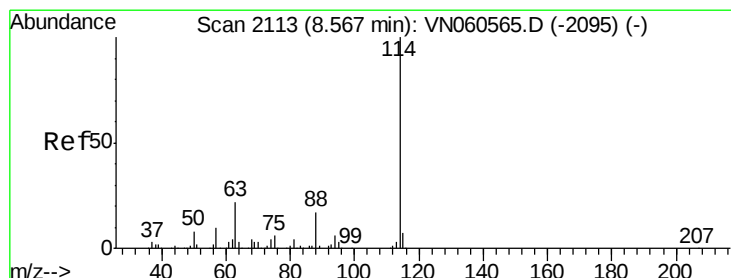
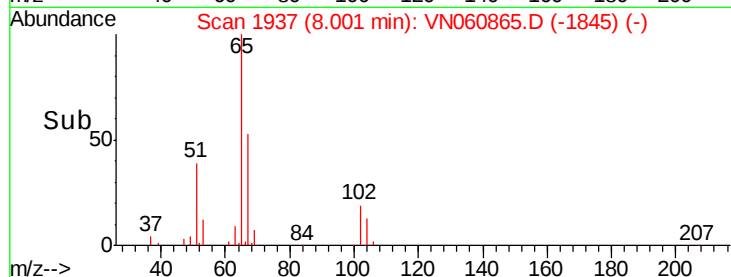
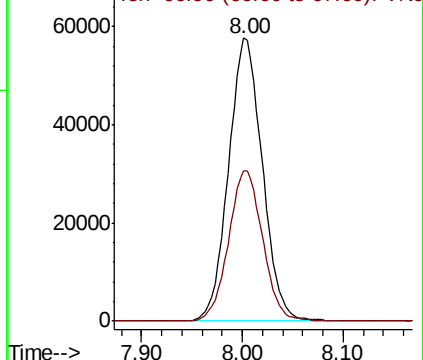
65 100

67 53.5 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: VN060865.D

Acq: 6 Apr 2020 20:29

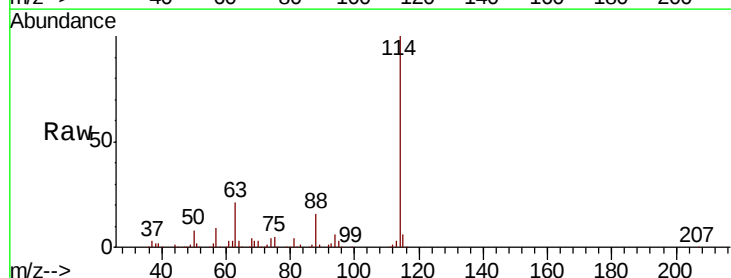
Tgt Ion: 114 Resp: 350862

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.8

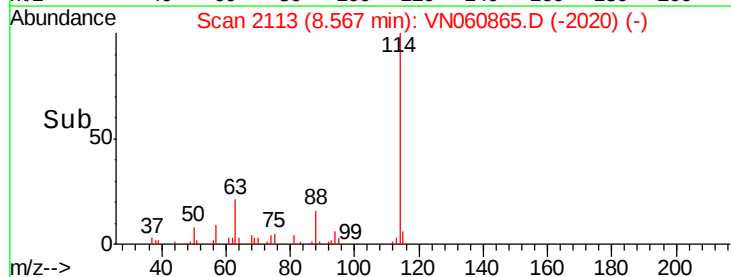
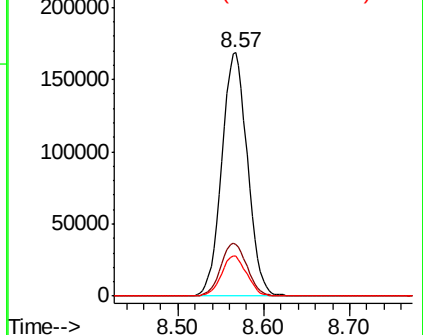
88 16.2 0.0 33.0

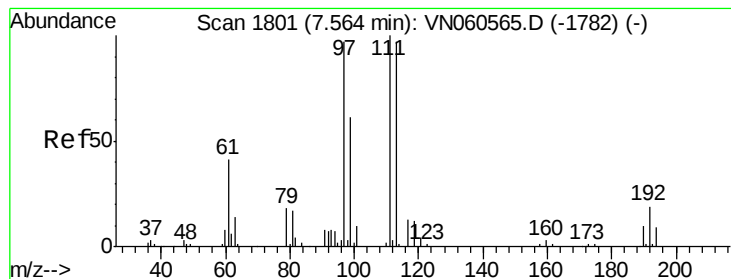


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#35

Dibromofluoromethane

Concen: 48.654 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

TP-50-COMP

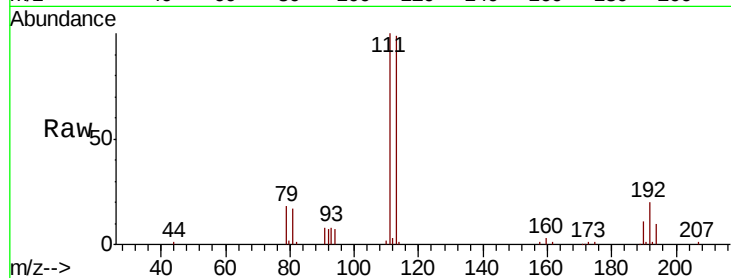
Tot Ion:113 Resp: 103222

Ion Ratio Lower Upper

113 100

111 102.9 82.9 124.3

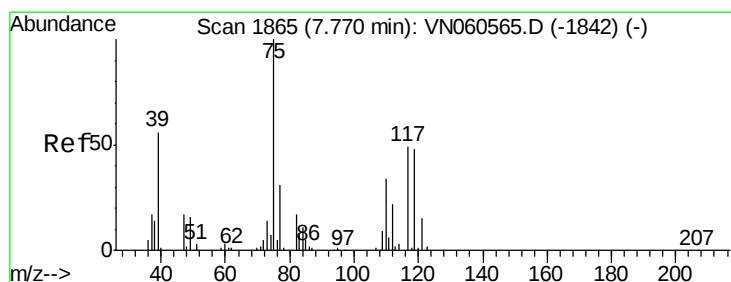
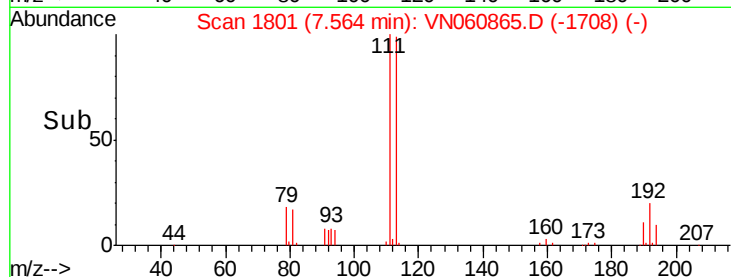
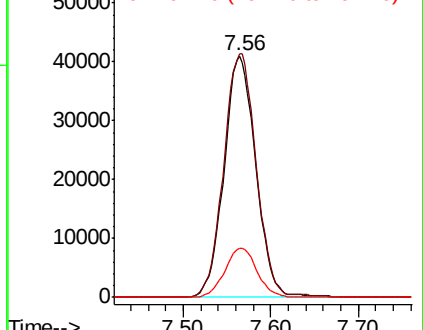
192 20.4 15.8 23.8



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: 4.800 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

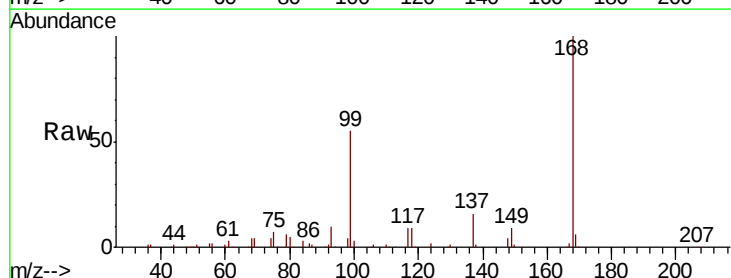
Tgt Ion: 75 Resp: 16308

Ion Ratio Lower Upper

75 100

110 4.0 16.9 50.6#

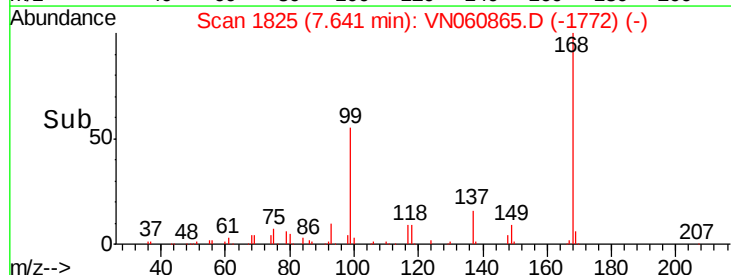
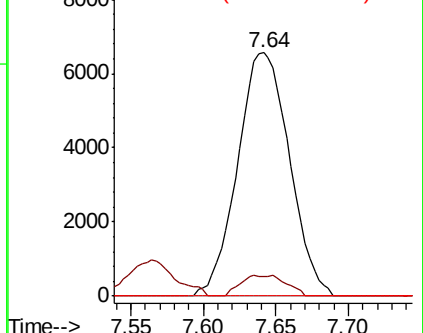
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

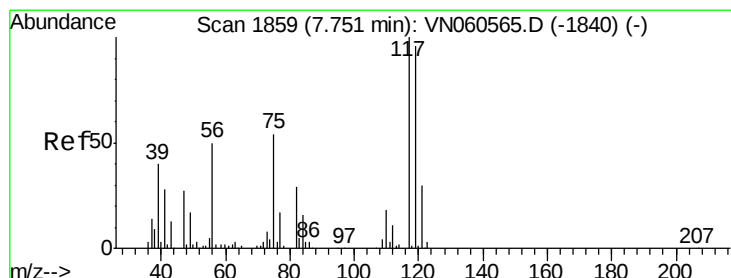
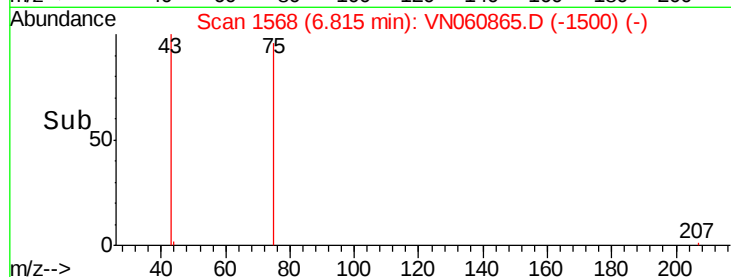
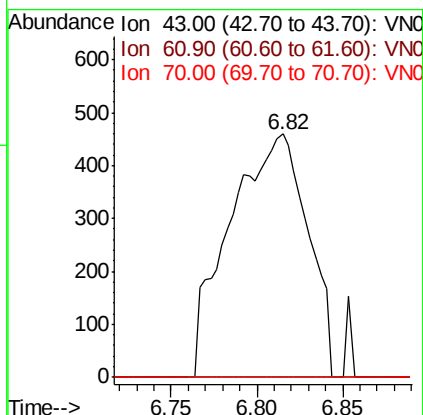
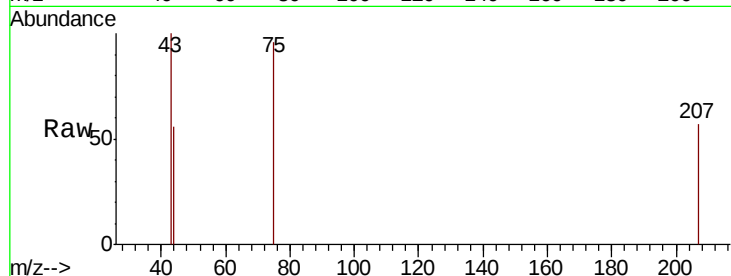




#37
Ethyl Acetate
Concen: 0.395 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. -0.08 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

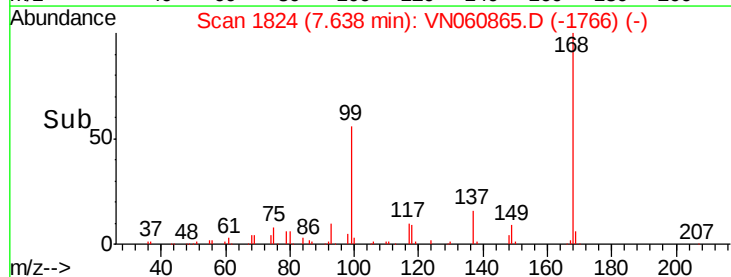
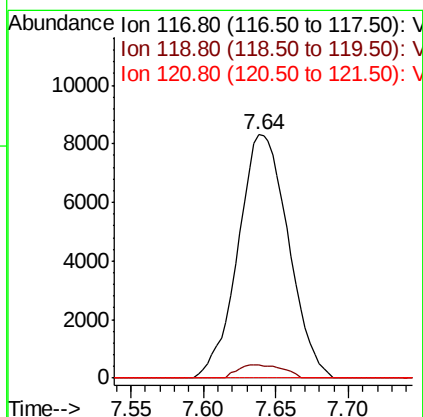
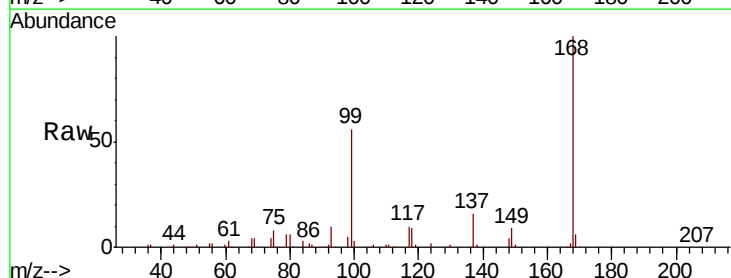
Instrument :
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TP-50-COMP

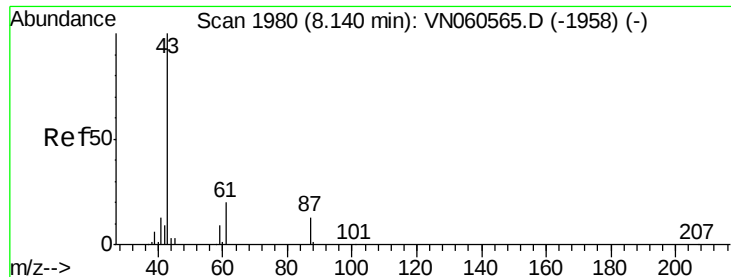
Tot Ion: 43 Resp: 1450
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.581 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

Tgt Ion: 117 Resp: 20039
Ion Ratio Lower Upper
117 100
119 5.3 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 8.730 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

TP-50-COMP

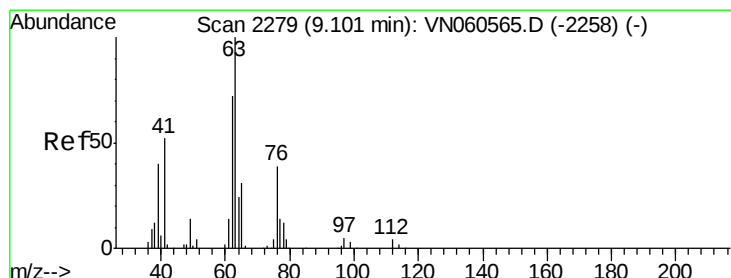
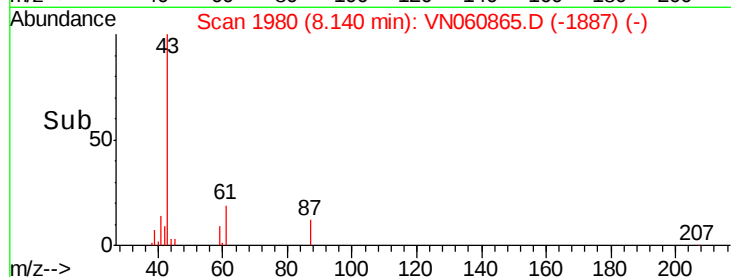
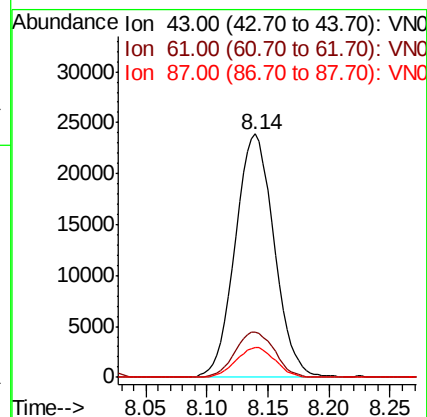
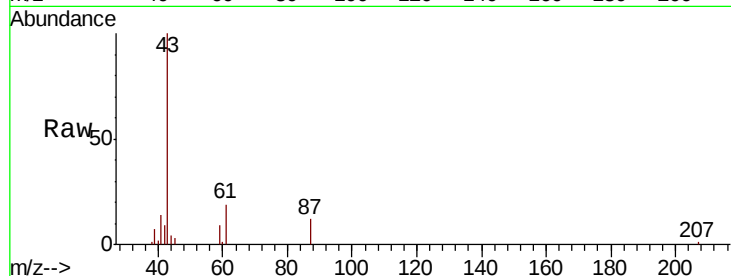
Tot Ion: 43 Resp: 52851

Ion Ratio Lower Upper

43 100

61 18.9 20.7 31.1#

87 12.2 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.286 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060865.D

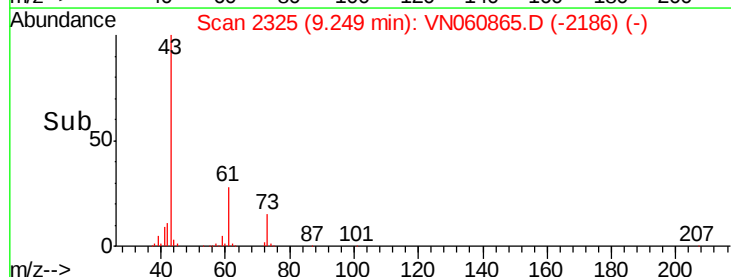
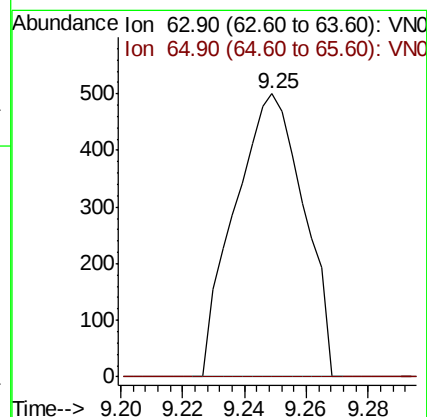
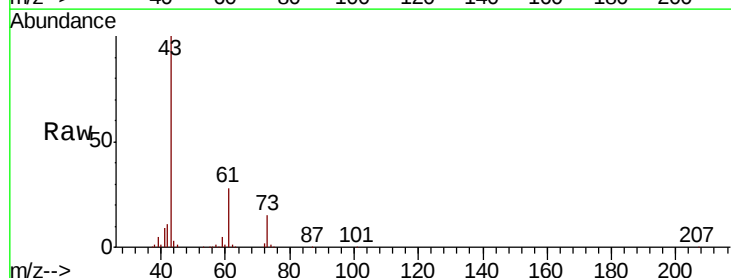
Acq: 6 Apr 2020 20:29

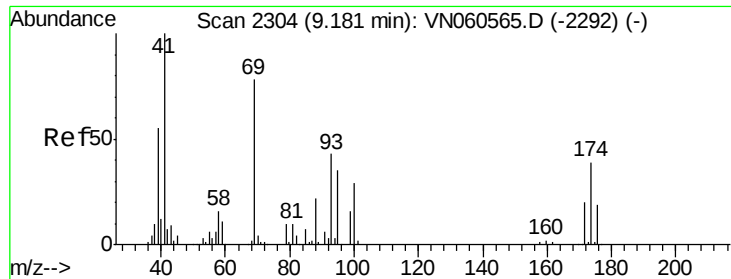
Tgt Ion: 63 Resp: 773

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

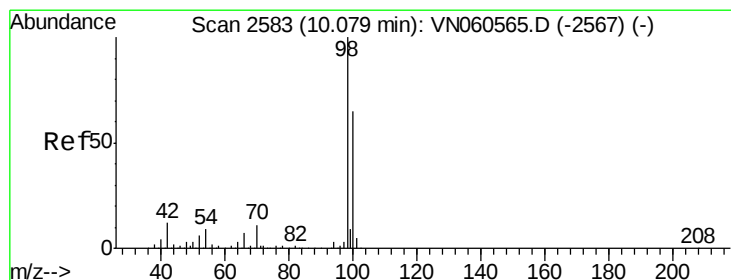
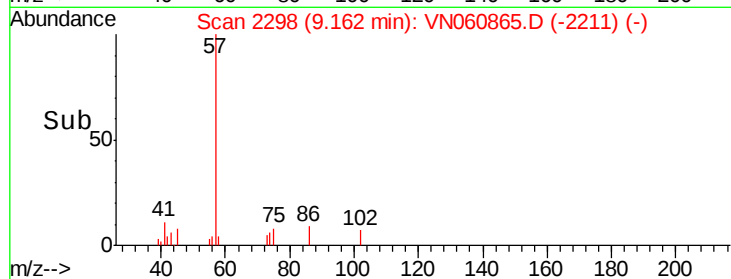
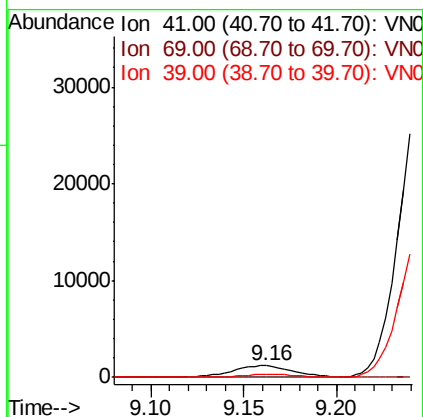
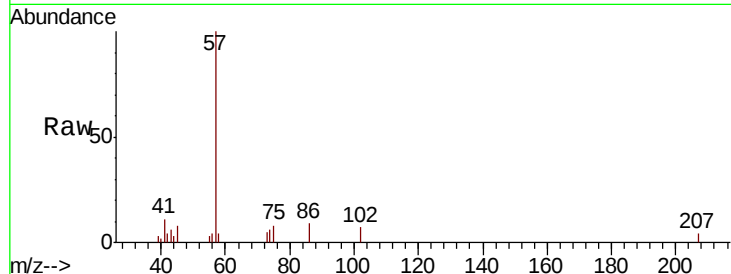




#48
Methvl methacrylate
Concen: 1.000 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

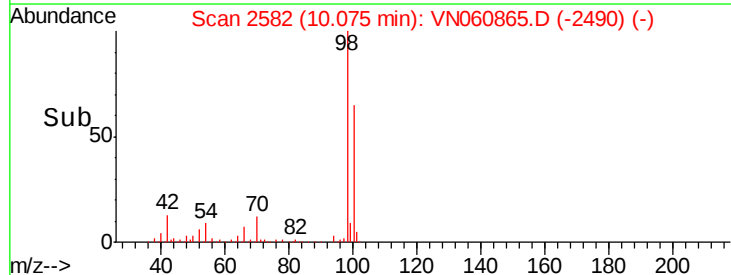
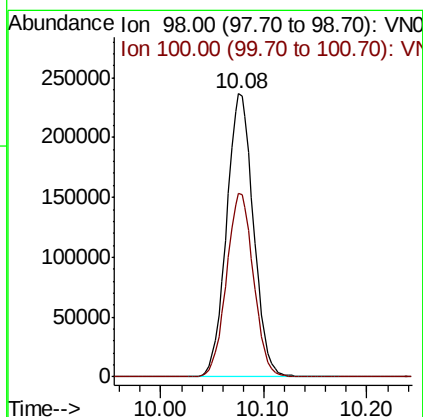
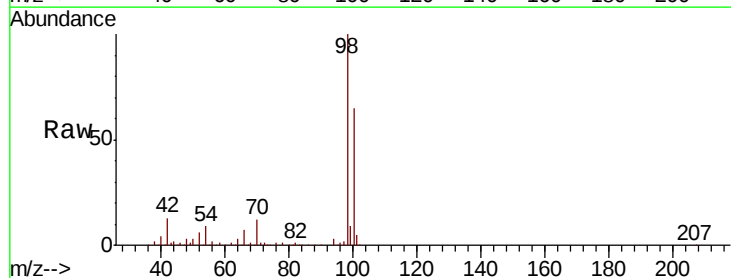
Instrument :
MSVOA_N
ClientSampled :
TP-50-COMP

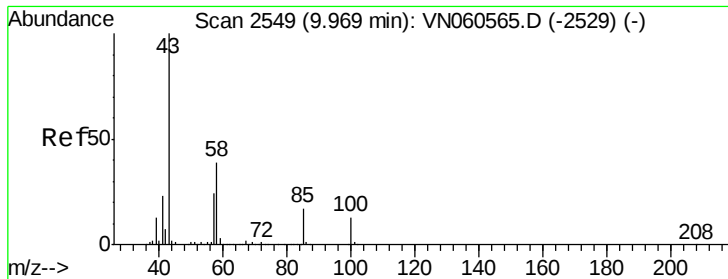
Tot Ion: 41 Resp: 2695
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.607 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

Tgt Ion: 98 Resp: 429879
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.420 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

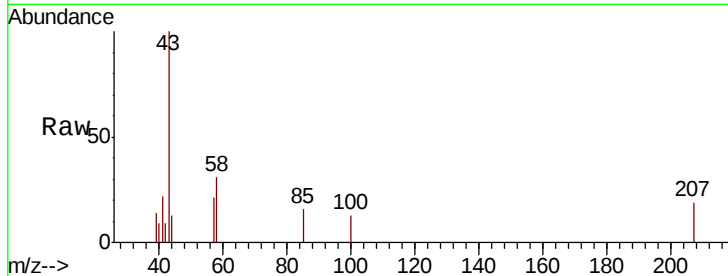
TP-50-COMP

Tot Ion: 43 Resp: 4893

Ion Ratio Lower Upper

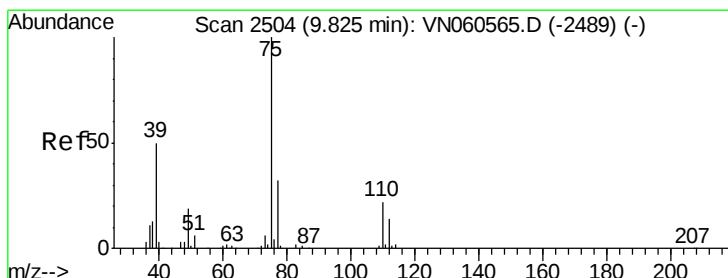
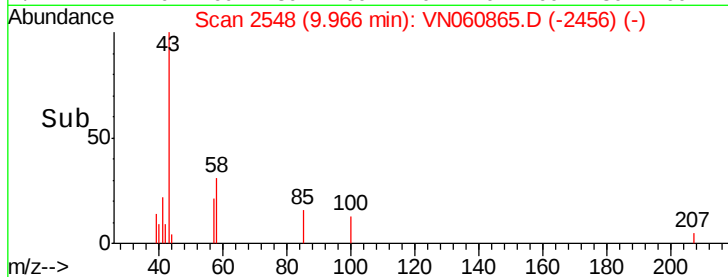
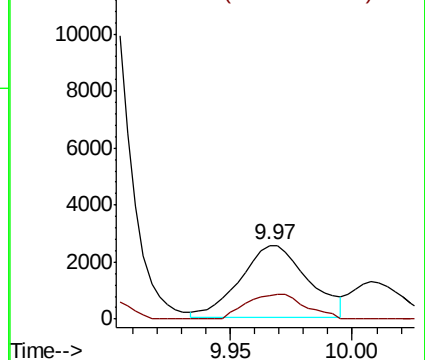
43 100

58 29.8 30.8 46.2#



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: 5.101 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

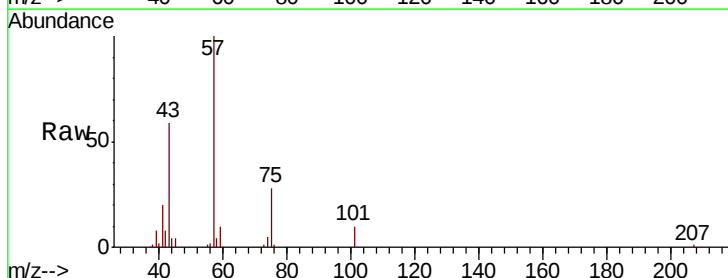
Tgt Ion: 75 Resp: 21852

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

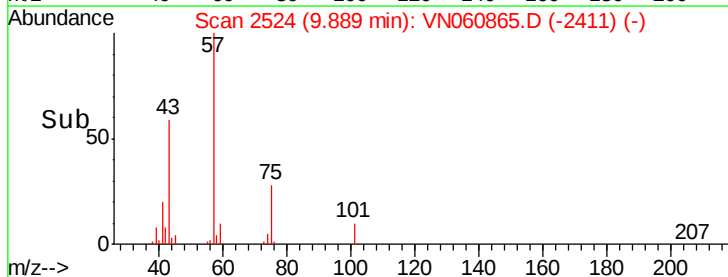
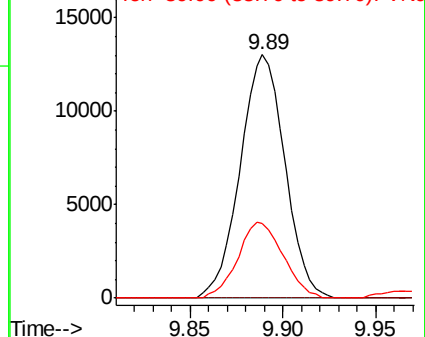
39 30.6 40.2 60.4#



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: 0.700 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

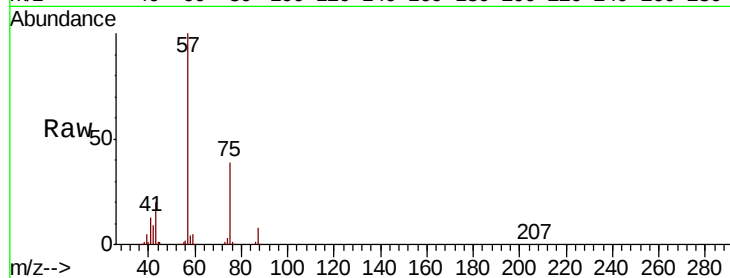
TP-50-COMP

Tot Ion: 76 Resp: 2896

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

10.75

2000

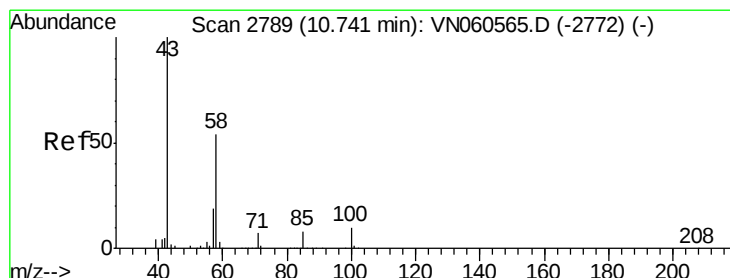
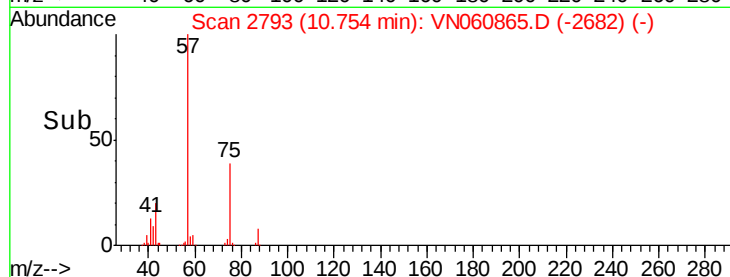
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 17.463 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060865.D

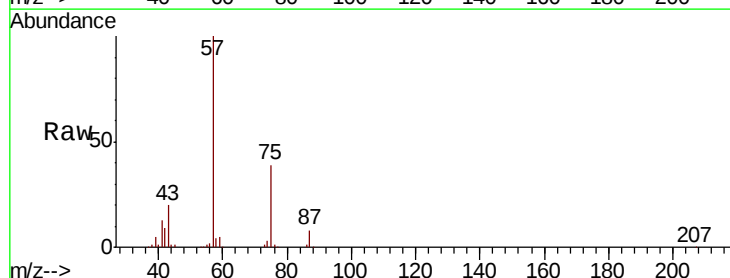
Acq: 6 Apr 2020 20:29

Tgt Ion: 43 Resp: 43337

Ion Ratio Lower Upper

43 100

58 19.2 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

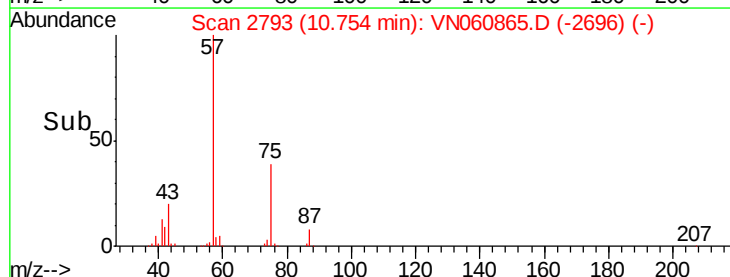
30000

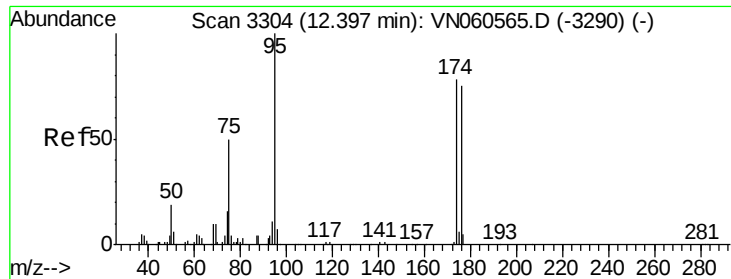
20000

10000

0

Time--> 10.70 10.75 10.80

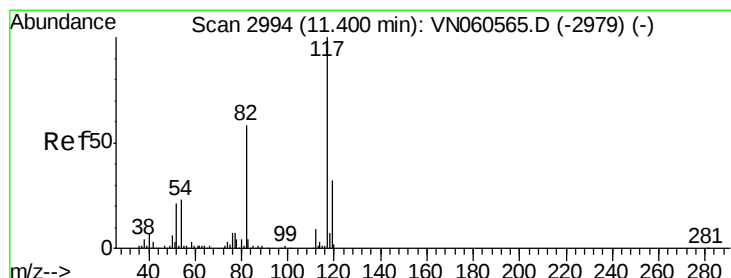
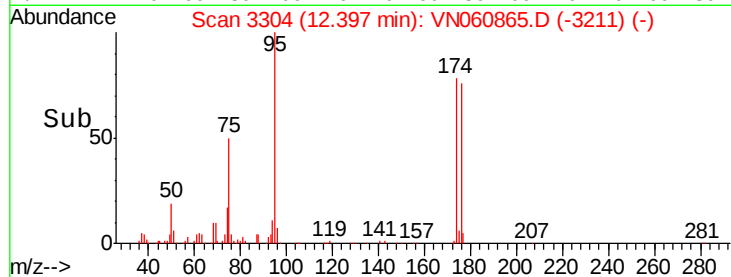
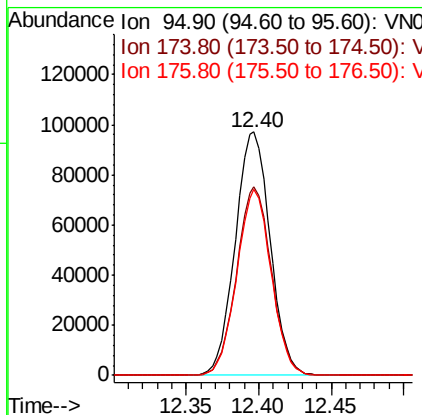
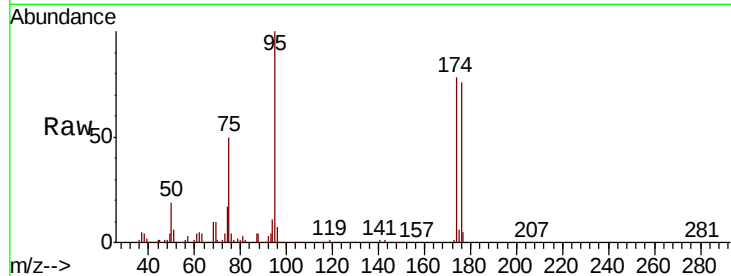




#62
4-Bromofluorobenzene
Concen: 51.282 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

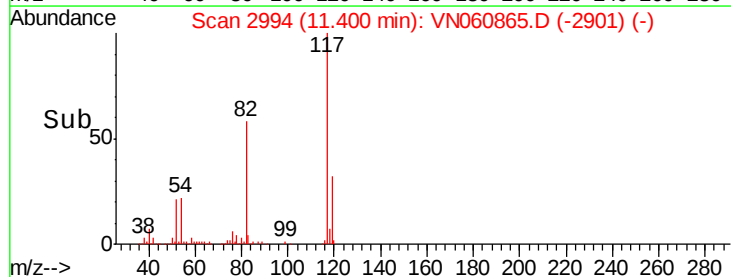
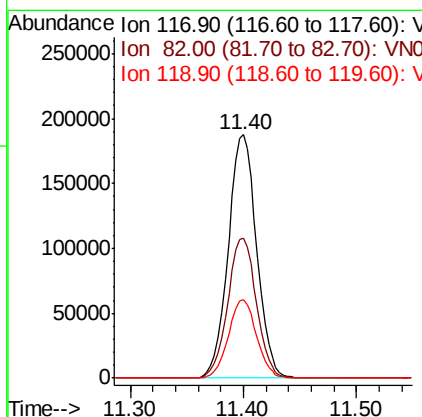
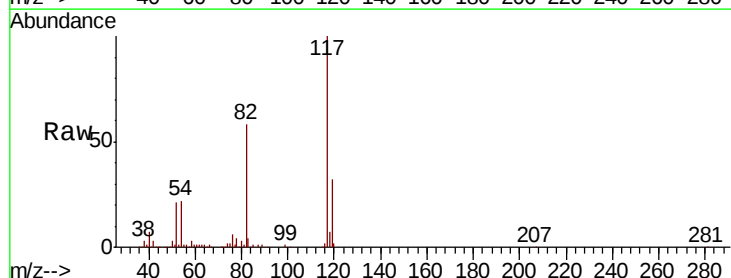
Instrument :
MSVOA_N
ClientSampleId :
TP-50-COMP

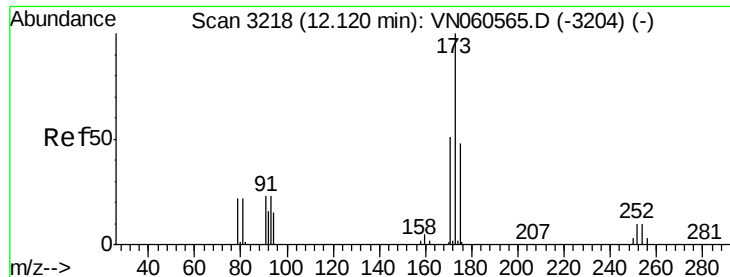
Tot Ion: 95 Resp: 162863
Ion Ratio Lower Upper
95 100
174 77.2 0.0 157.6
176 74.8 0.0 150.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060865.D
Acq: 6 Apr 2020 20:29

Tgt Ion: 117 Resp: 326786
Ion Ratio Lower Upper
117 100
82 57.6 46.7 70.1
119 32.1 25.5 38.3





#71

Bromoform

Concen: 2.149 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

TP-50-COMP

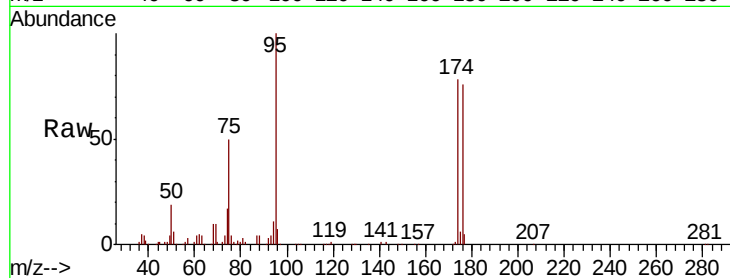
Tot Ion:173 Resp: 945

Ion Ratio Lower Upper

173 100

175 835.2 24.1 72.4#

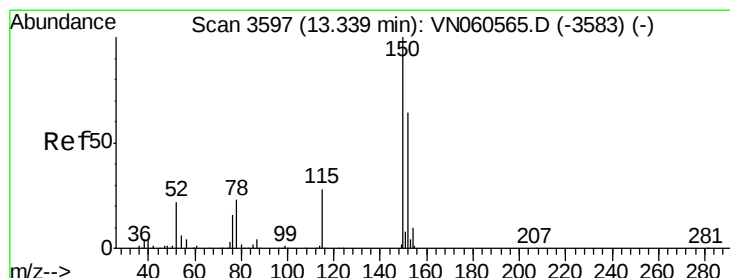
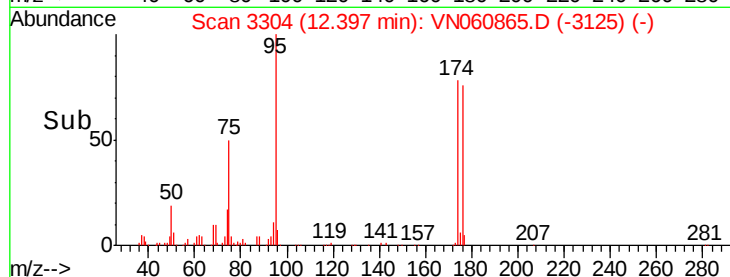
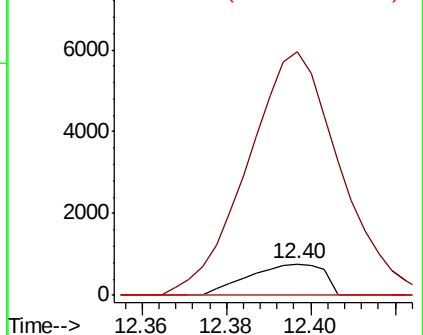
254 0.0 0.0 0.0



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: VN060865.D

Acq: 6 Apr 2020 20:29

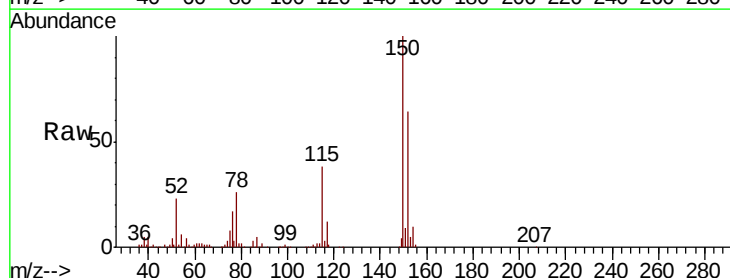
Tgt Ion:152 Resp: 150971

Ion Ratio Lower Upper

152 100

115 59.0 30.2 90.6

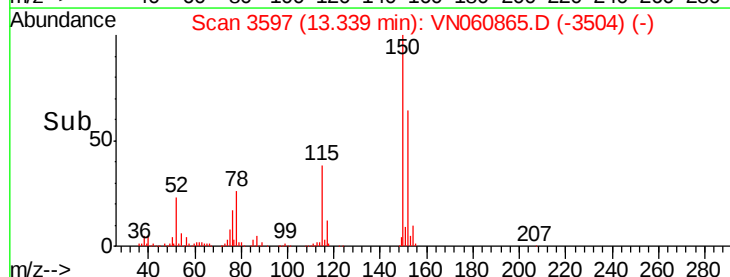
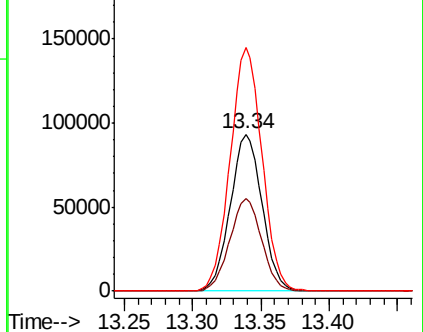
150 155.5 0.0 350.2



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: 0.413 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

TP-50-COMP

Tot Ion: 43 Resp: 2161

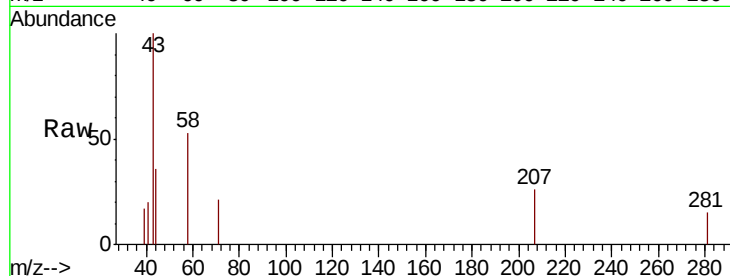
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

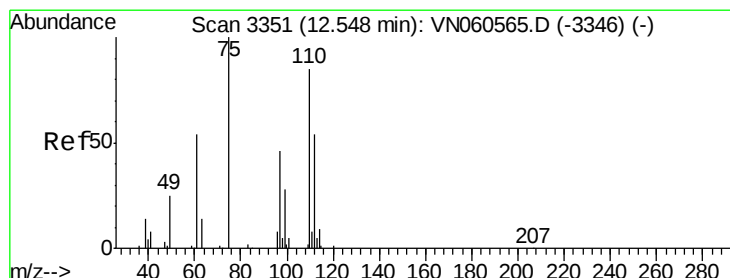
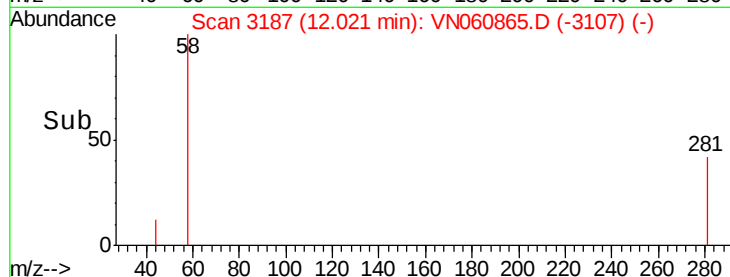
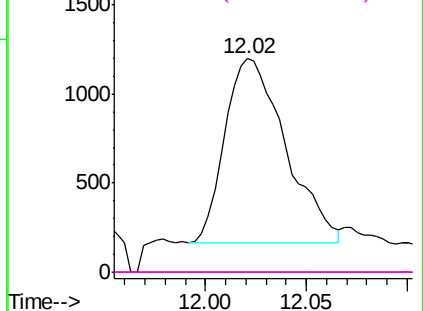


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.535 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060865.D

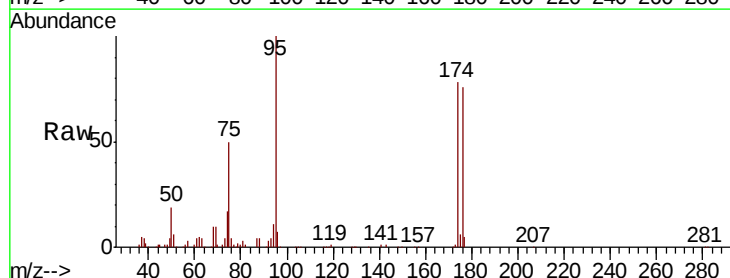
Acq: 6 Apr 2020 20:29

Tgt Ion: 75 Resp: 79925

Ion Ratio Lower Upper

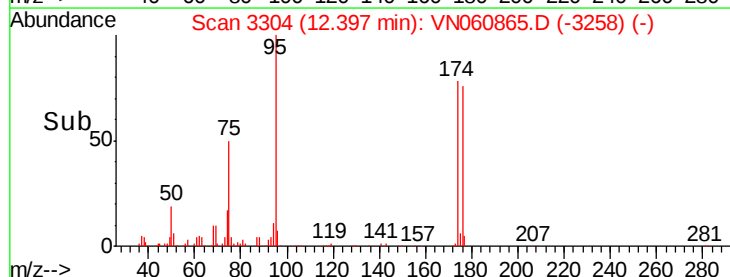
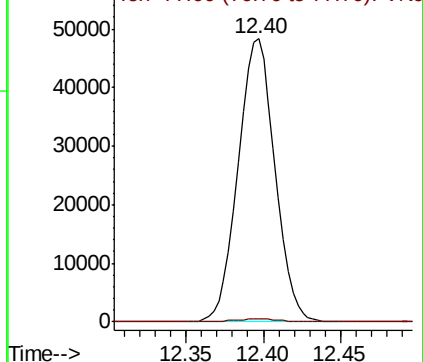
75 100

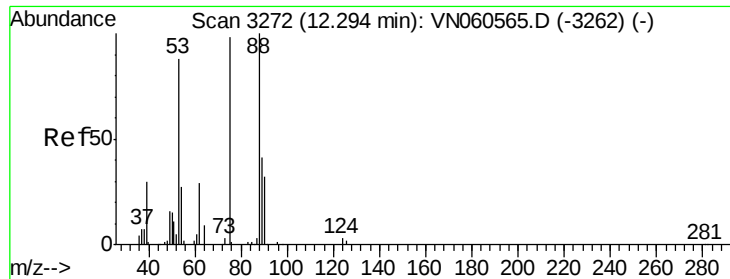
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.012 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060865.D

Acq: 6 Apr 2020 20:29

Instrument :

MSVOA_N

ClientSampleId :

TP-50-COMP

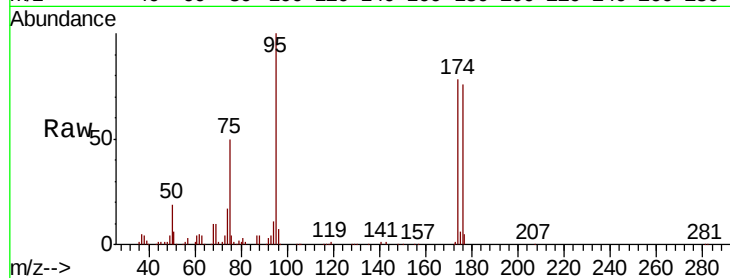
Tot Ion: 75 Resp: 79925

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

