

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\
 Data File : VN060641.D
 Acq On : 19 Mar 2020 16:54
 Operator : JC/MD
 Sample : L1978-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-7A

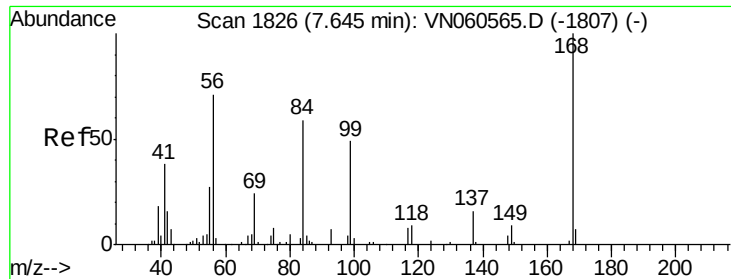
Quant Time: Mar 20 01:50:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	199164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	329295	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	313690	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142270	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	129678	47.43	ug/l	0.00
Spiked Amount						
			Recovery	=	94.86%	
35) Dibromofluoromethane	7.57	113	98540	49.49	ug/l	0.00
Spiked Amount						
			Recovery	=	98.98%	
50) Toluene-d8	10.08	98	409744	50.38	ug/l	0.00
Spiked Amount						
			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	12.40	95	152402	51.13	ug/l	0.00
Spiked Amount						
			Recovery	=	102.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	11571	11.948	ug/l	96
18) Methyl Acetate	4.30	43	1604	0.588	ug/l #	54
20) Methylene Chloride	4.52	84	7533	3.162	ug/l	96
25) 2-Butanone	6.81	43	3514	2.242	ug/l	98
31) Cyclohexane	7.64	56	4020	0.913	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15472	4.852	ug/l #	49
37) Ethyl Acetate	6.81	43	3514	1.020	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18517	6.479	ug/l #	17
43) Isopropyl Acetate	8.14	43	52197	9.186	ug/l #	91
44) Trichloroethene	8.82	130	11913	4.910	ug/l	98
45) 1,2-Dichloropropane	9.25	63	993	0.391	ug/l #	43
48) Methyl methacrylate	9.17	41	3140	1.241	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4186	1.295	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	21336	5.306	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3325	0.857	ug/l #	42
59) 2-Hexanone	10.75	43	50889	21.849	ug/l #	52
71) Bromoform	12.40	173	331	1.851	ug/l #	1
74) N-amyl acetate	12.02	43	3739	0.758	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	78088	25.437	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78088	65.329	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

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MSVOA_N

ClientSampleId :

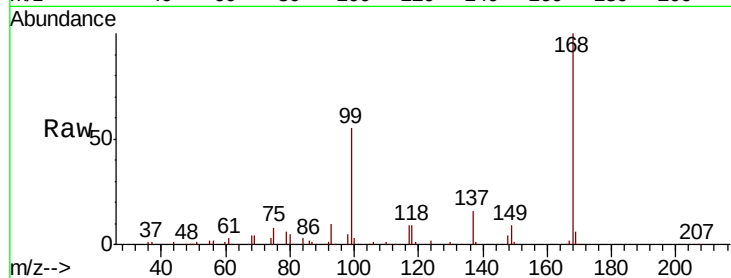
TP-7A

Tot Ion:168 Resp: 199164

Ion Ratio Lower Upper

168 100

99 55.5 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

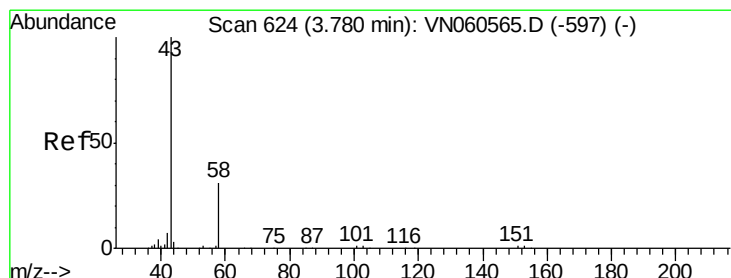
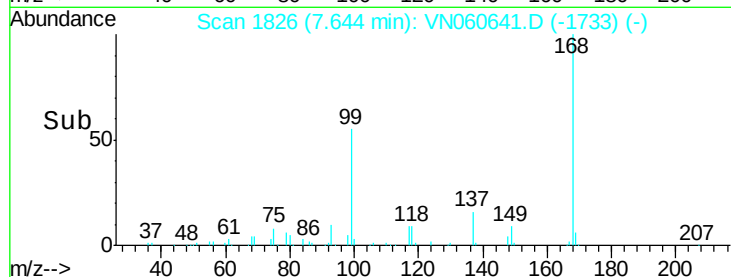
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 11.948 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060641.D

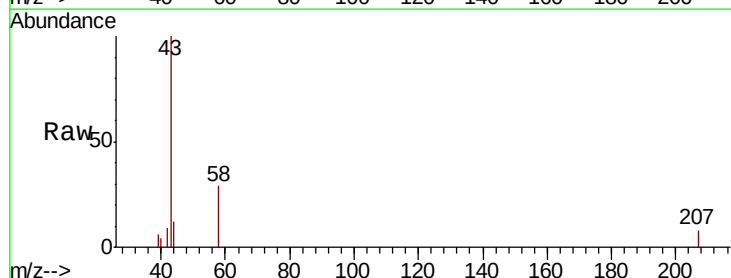
Acq: 19 Mar 2020 16:54

Tgt Ion: 43 Resp: 11571

Ion Ratio Lower Upper

43 100

58 29.4 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

4000

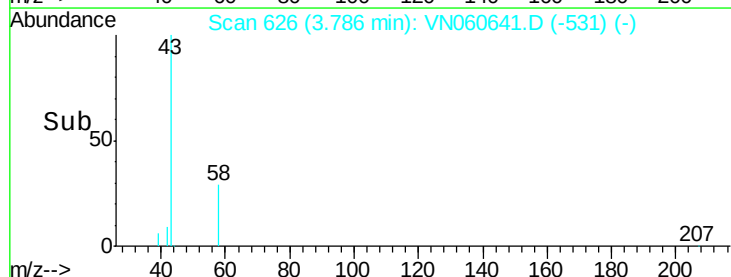
3000

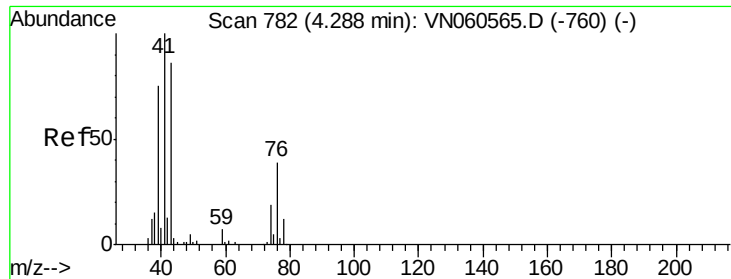
2000

1000

0

Time--> 3.70 3.75 3.80 3.85 3.90

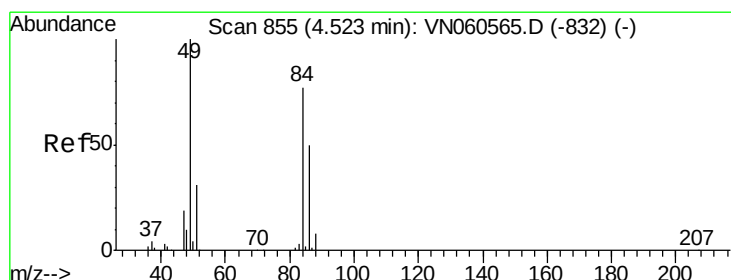
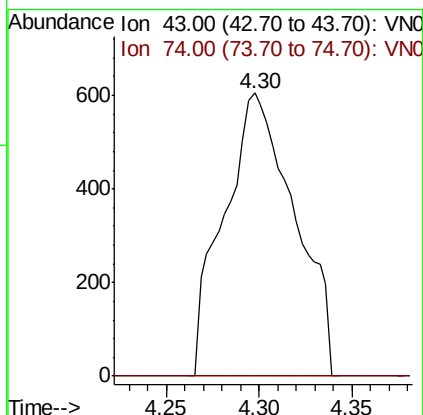
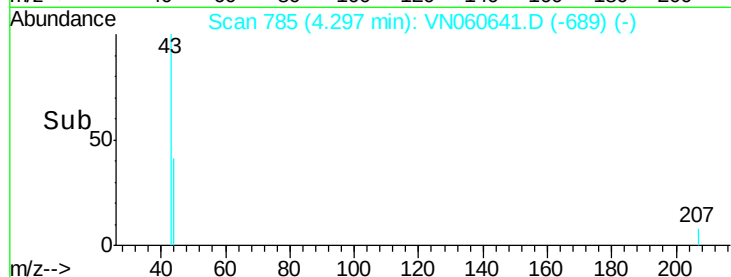
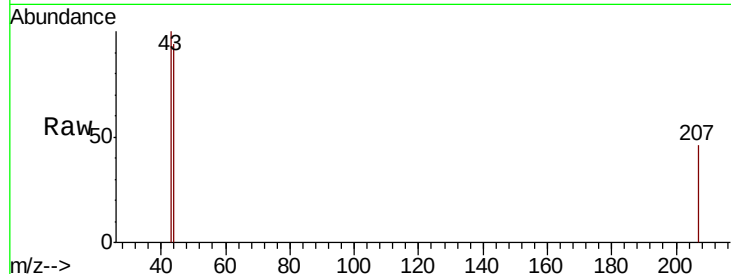




#18
Methyl Acetate
Concen: 0.588 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

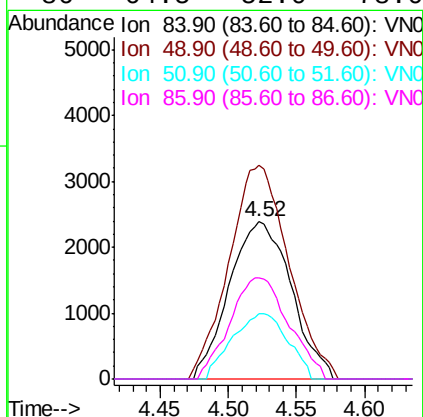
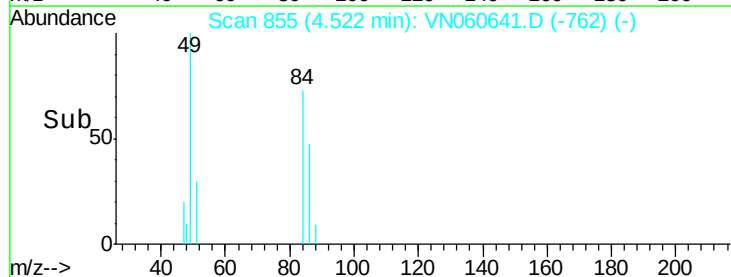
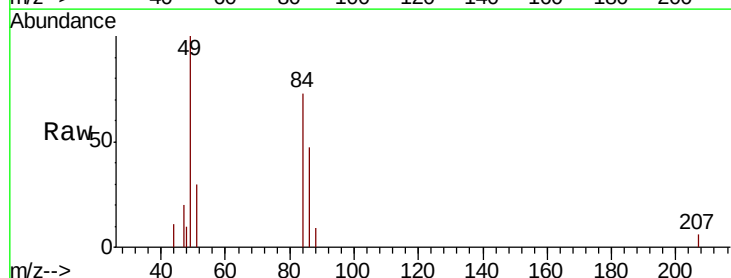
Instrument :
MSVOA_N
ClientSampleId :
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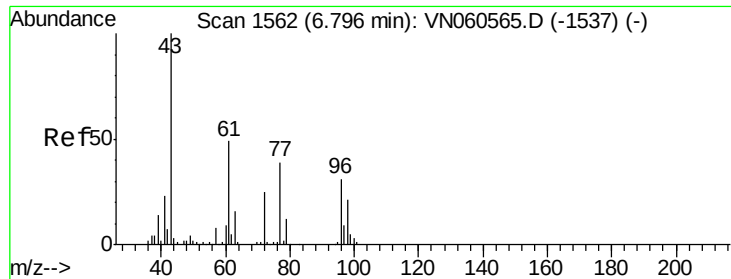
Tot Ion: 43 Resp: 1604
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.162 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

Tgt Ion: 84 Resp: 7533
Ion Ratio Lower Upper
84 100
49 136.2 103.3 154.9
51 41.3 31.6 47.4
86 64.5 52.0 78.0





#25

2-Butanone

Concen: 2.242 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060641.D

Acq: 19 Mar 2020 16:54

Instrument :

MSVOA_N

ClientSampled :

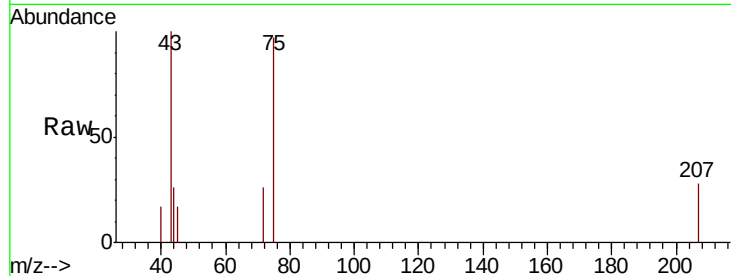
TP-7A

Tot Ion: 43 Resp: 3514

Ion Ratio Lower Upper

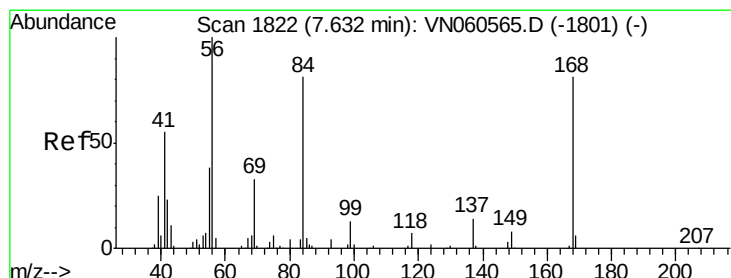
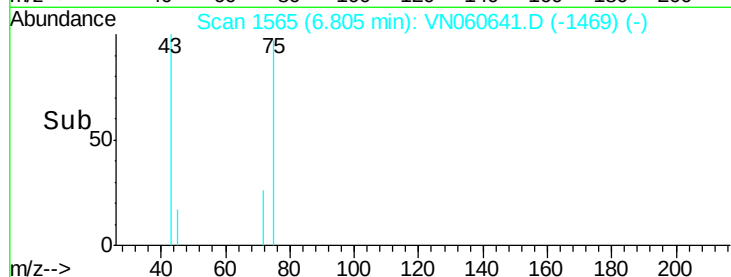
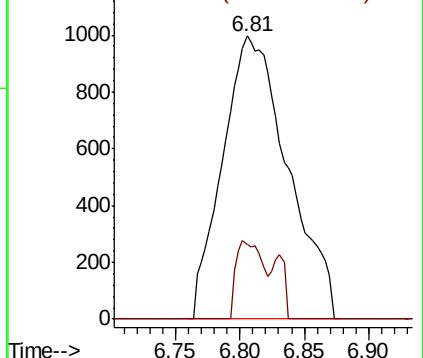
43 100

72 26.5 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.913 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060641.D

Acq: 19 Mar 2020 16:54

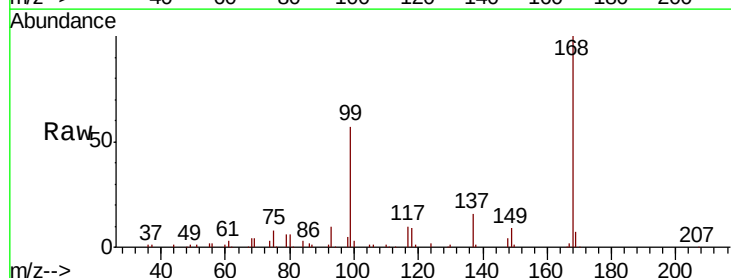
Tgt Ion: 56 Resp: 4020

Ion Ratio Lower Upper

56 100

69 189.6 26.6 40.0#

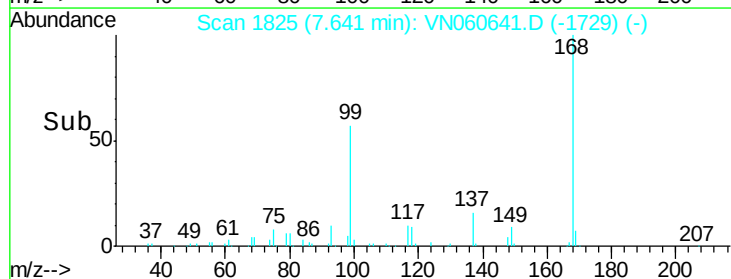
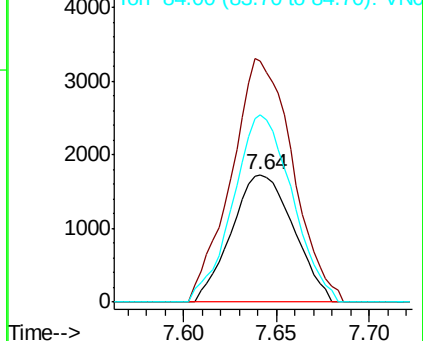
84 146.9 64.3 96.5#

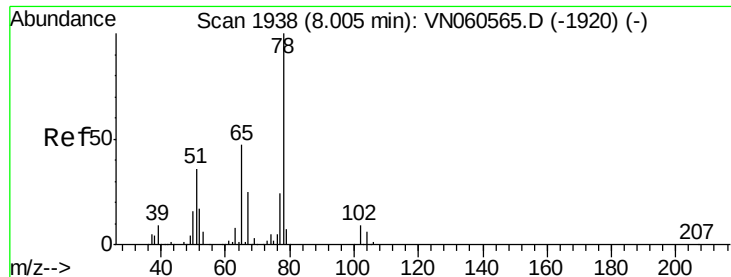


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

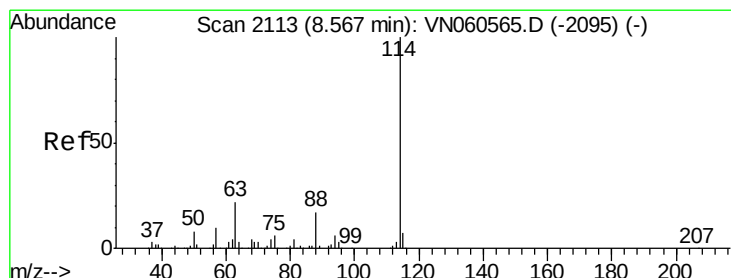
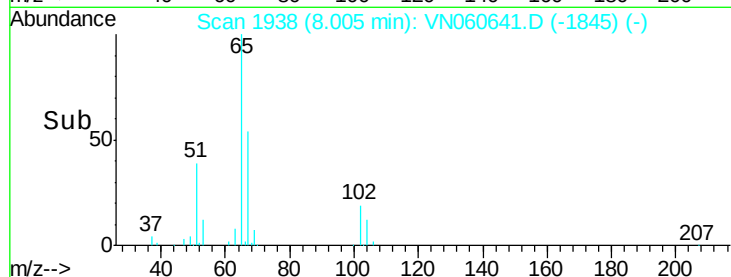
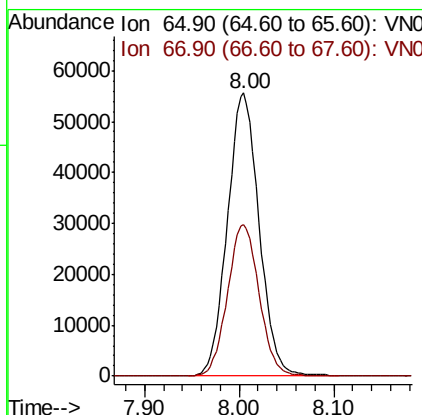
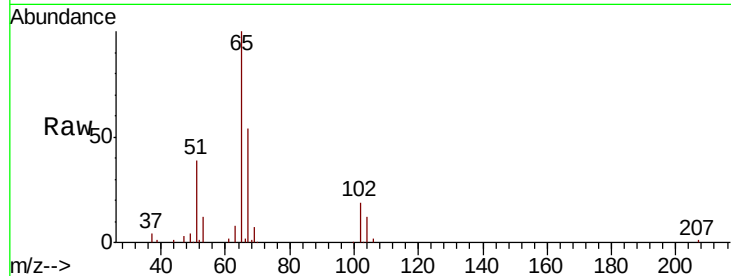




#33
 1,2-Dichloroethane-d4
 Concen: 47.430 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

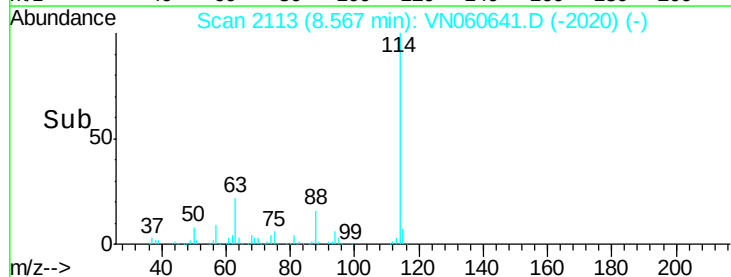
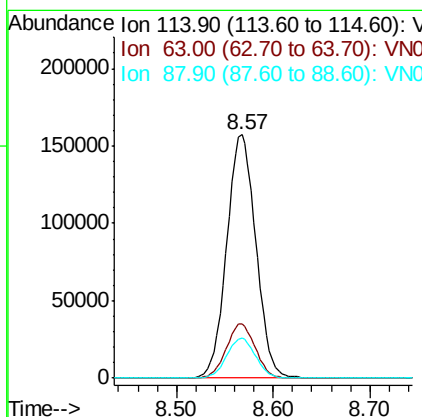
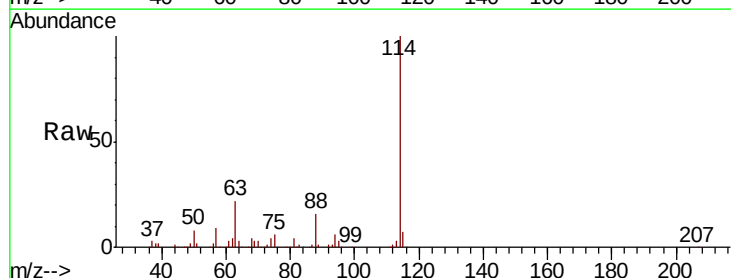
Instrument :
 MSVOA_N
 ClientSampled :
 TP-7A

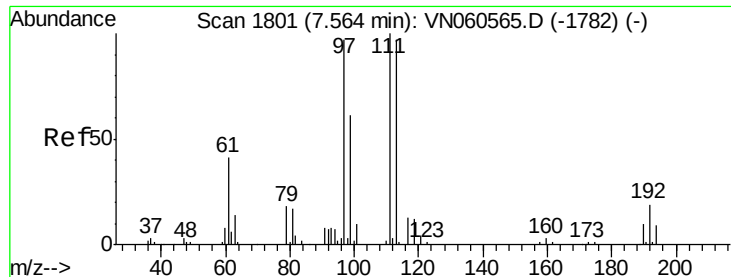
Tot Ion: 65 Resp: 129678
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

Tgt Ion: 114 Resp: 329295
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 16.2 0.0 33.0

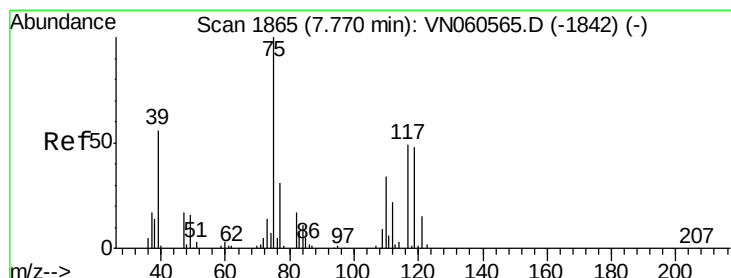
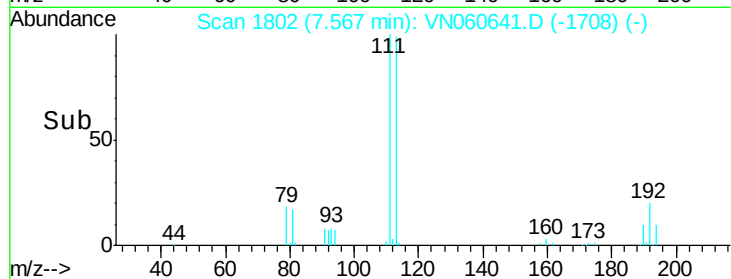
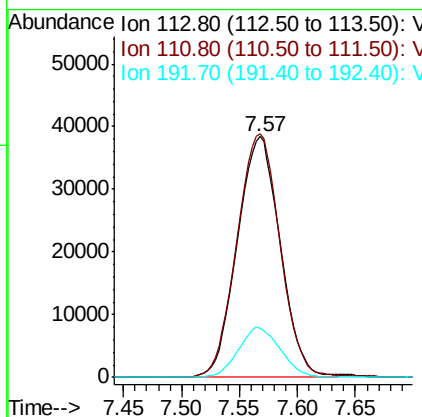
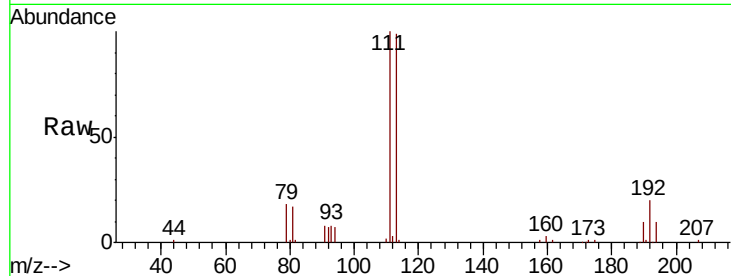




#35
 Dibromofluoromethane
 Concen: 49.489 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

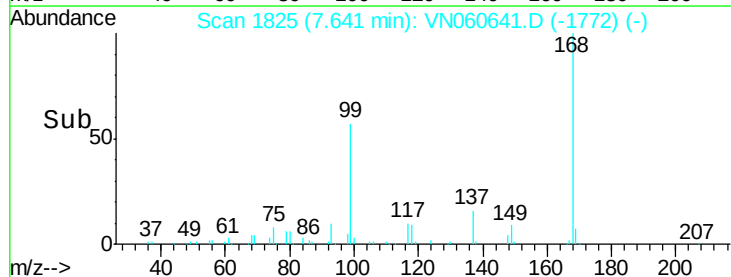
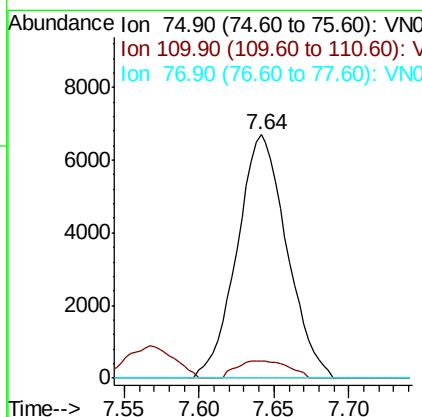
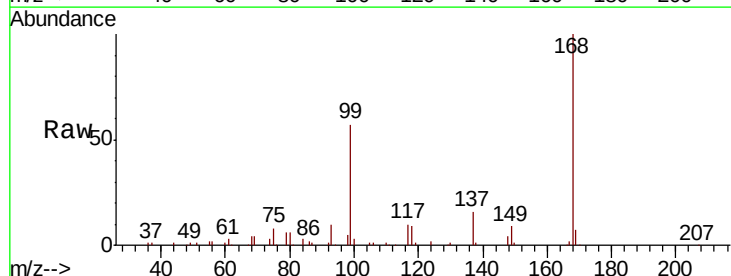
Instrument :
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 TP-7A

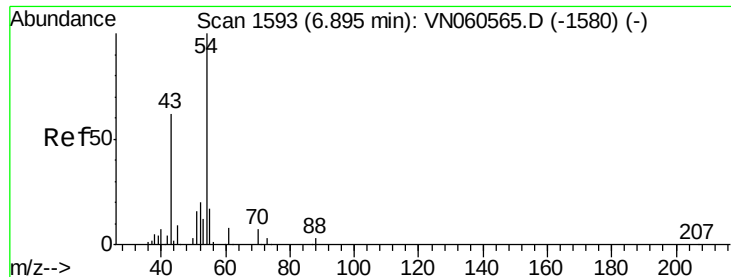
Tot Ion:113 Resp: 98540
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 20.2 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.852 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

Tgt Ion: 75 Resp: 15472
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.9 50.6#
 77 0.0 24.6 36.8#

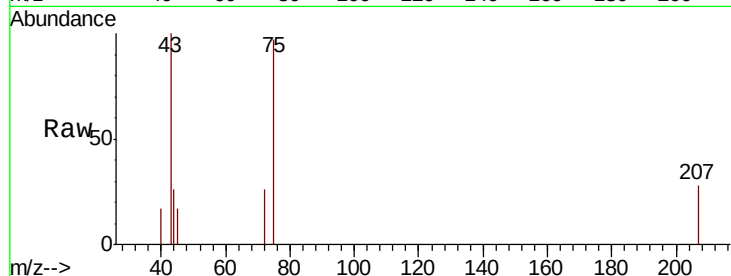




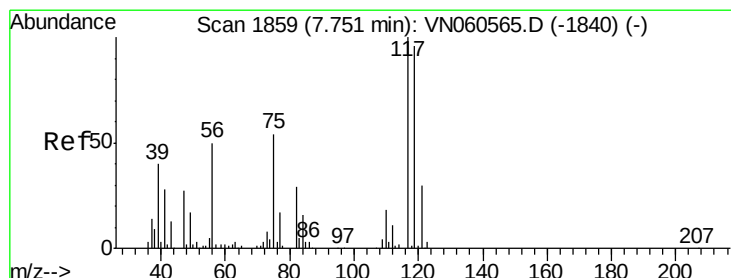
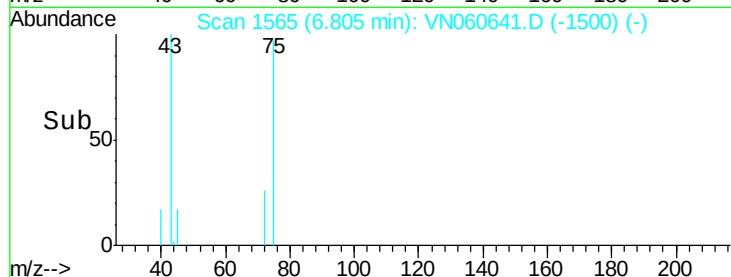
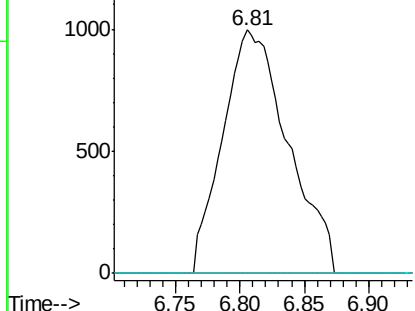
#37
Ethyl Acetate
Concen: 1.020 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

Instrument :
MSVOA_N
ClientSampleId :
TP-7A

Tot Ion: 43 Resp: 3514
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

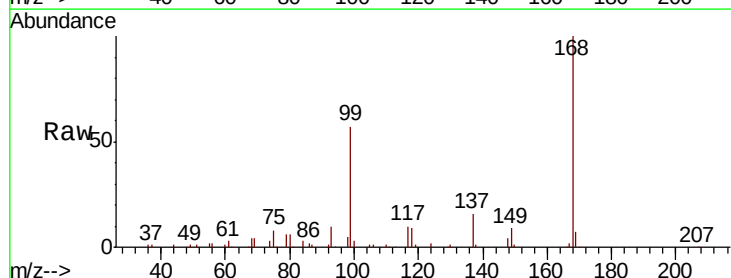


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

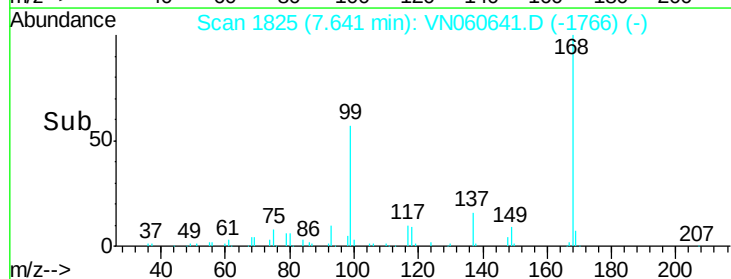
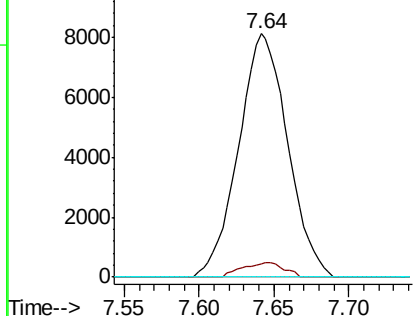


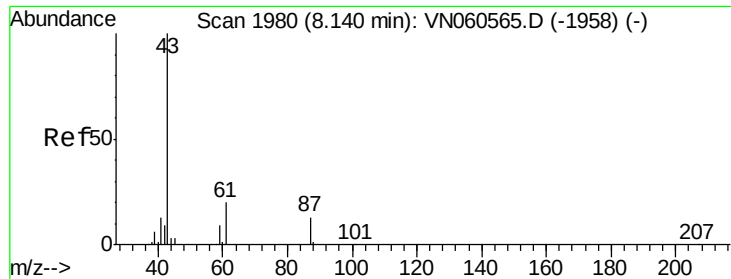
#38
Carbon Tetrachloride
Concen: 6.479 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

Tgt Ion: 117 Resp: 18517
Ion Ratio Lower Upper
117 100
119 5.7 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: 9.186 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060641.D

Acq: 19 Mar 2020 16:54

Instrument :

MSVOA_N

ClientSampled :

TP-7A

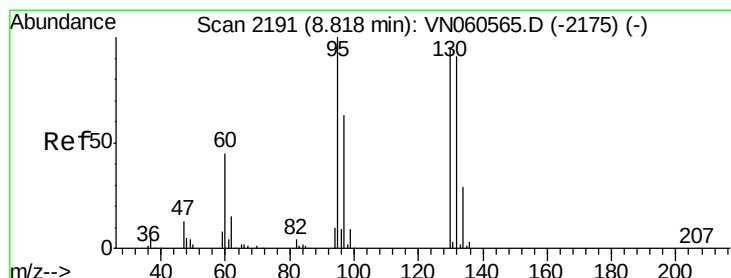
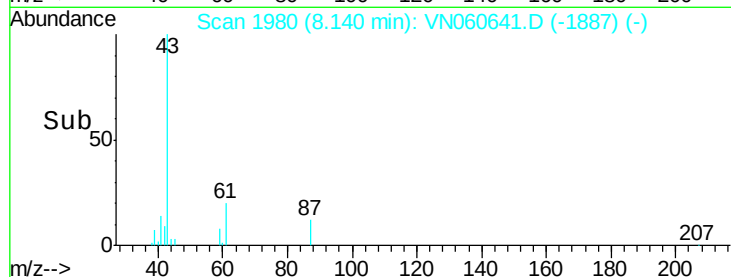
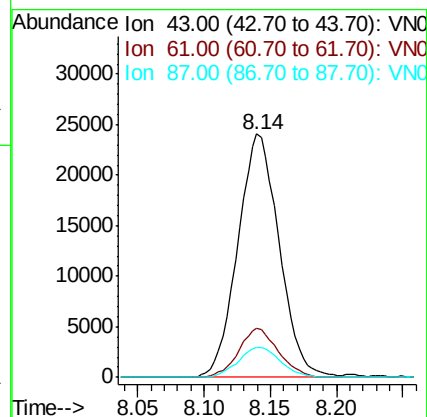
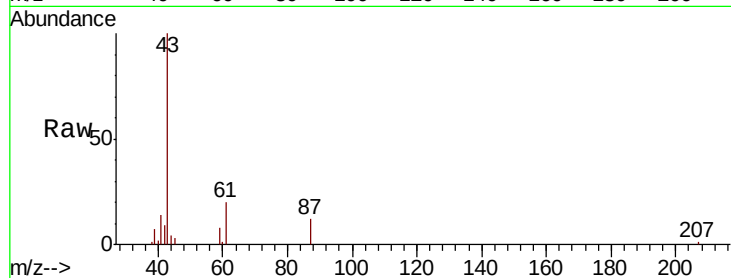
Tot Ion: 43 Resp: 52197

Ion Ratio Lower Upper

43 100

61 19.2 20.7 31.1#

87 12.4 9.8 14.8



#44

Trichloroethene

Concen: 4.910 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VN060641.D

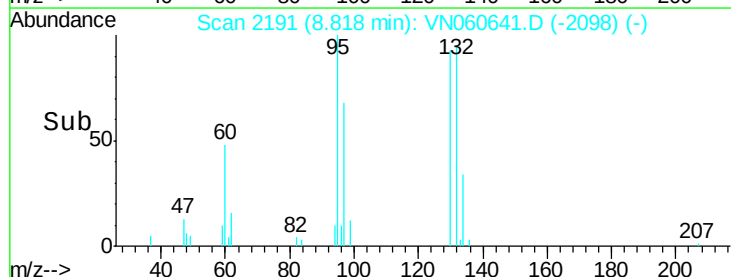
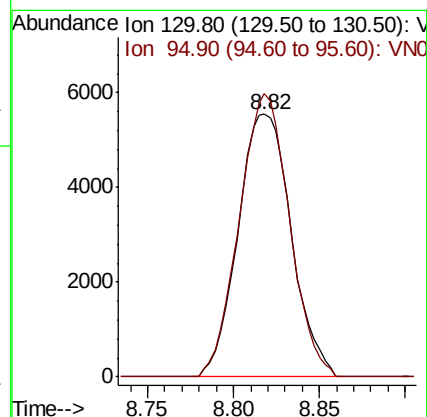
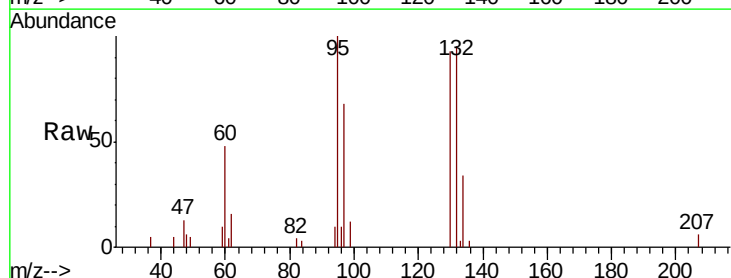
Acq: 19 Mar 2020 16:54

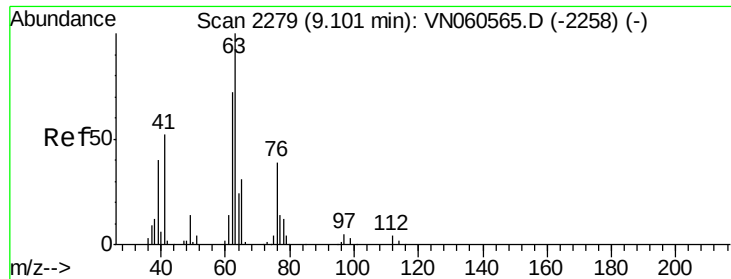
Tgt Ion:130 Resp: 11913

Ion Ratio Lower Upper

130 100

95 107.8 0.0 211.2

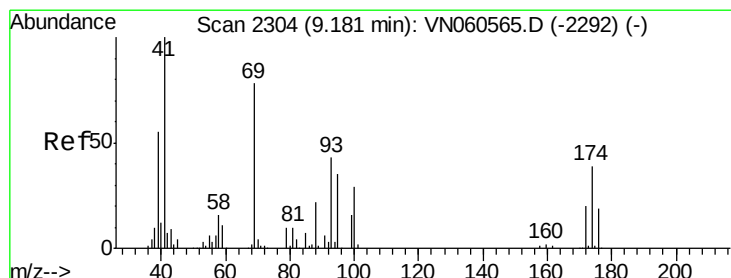
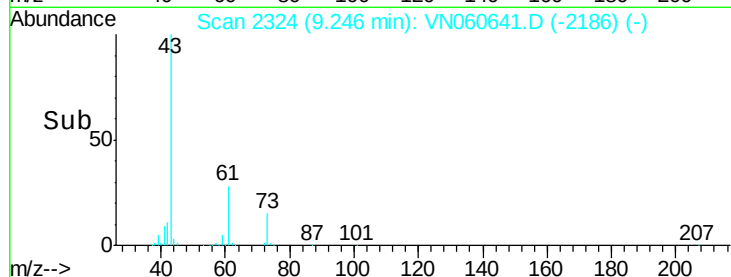
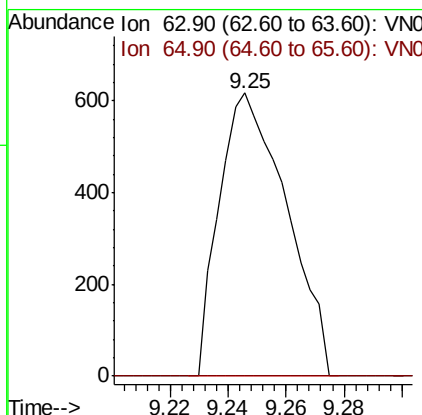
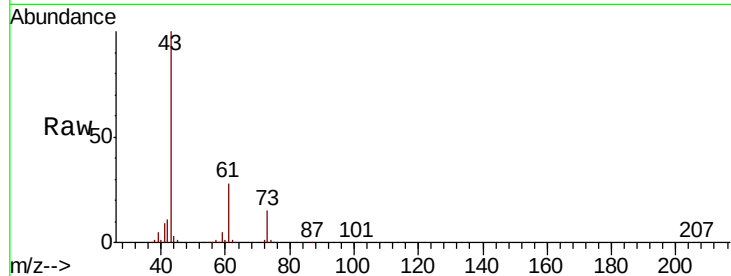




#45
 1,2-Dichloropropane
 Concen: 0.391 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

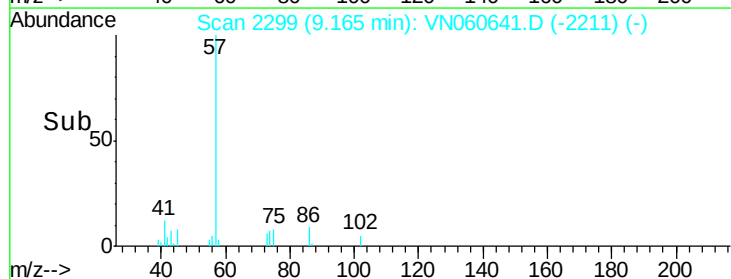
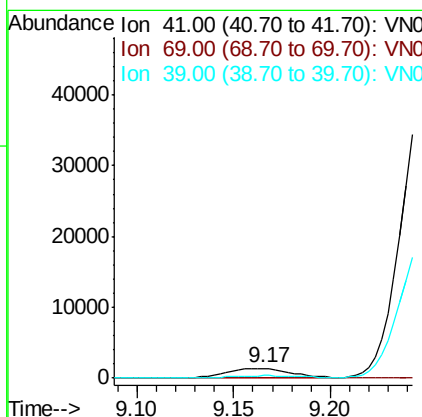
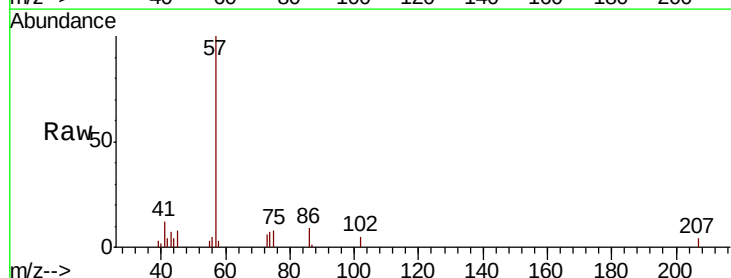
Instrument :
 MSVOA_N
 ClientSampled :
 TP-7A

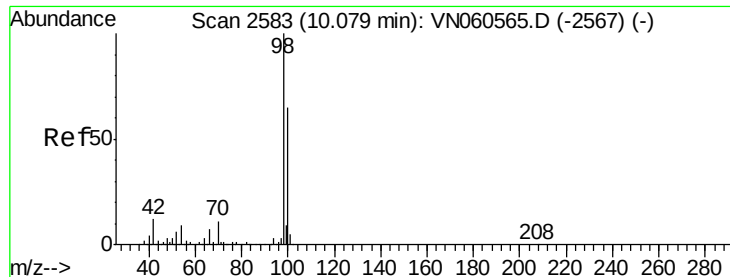
Tot Ion: 63 Resp: 993
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.241 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

Tgt Ion: 41 Resp: 3140
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#





#50

Toluene-d8

Concen: 50.380 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060641.D

Acq: 19 Mar 2020 16:54

Instrument :

MSVOA_N

ClientSampled :

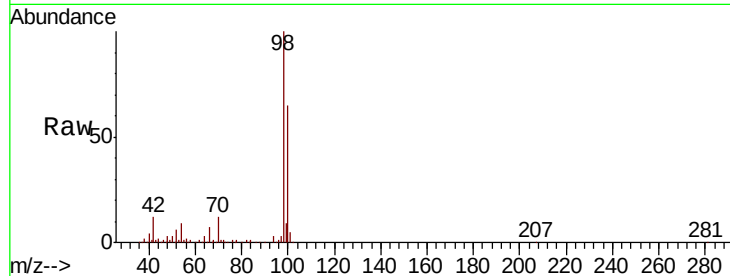
TP-7A

Tot Ion: 98 Resp: 409744

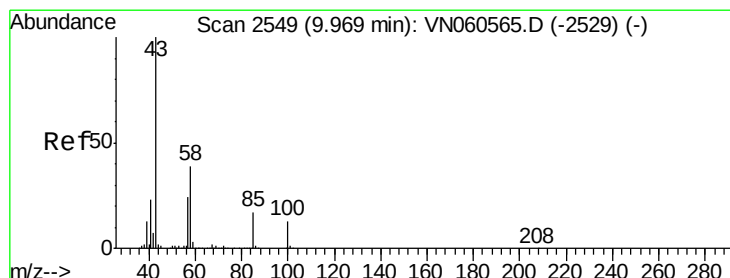
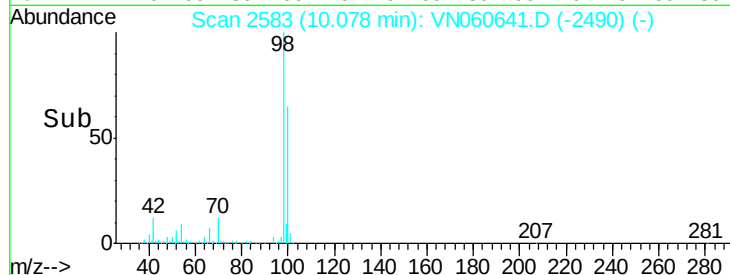
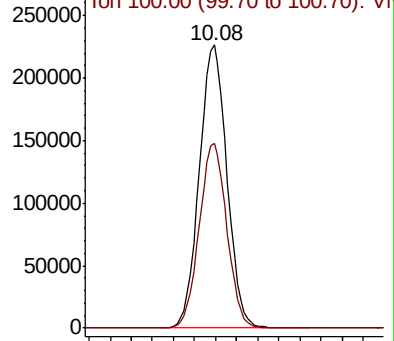
Ion Ratio Lower Upper

98 100

100 65.1 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060641.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.295 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060641.D

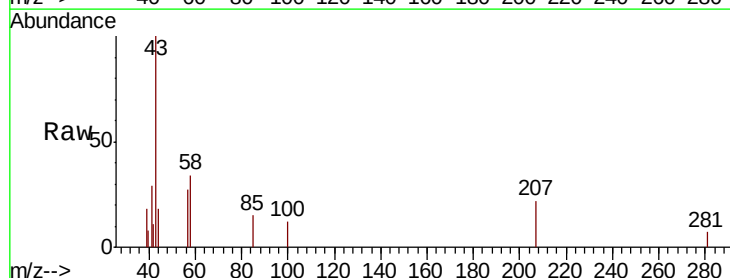
Acq: 19 Mar 2020 16:54

Tgt Ion: 43 Resp: 4186

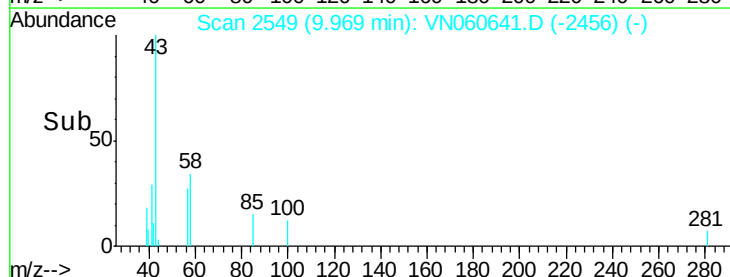
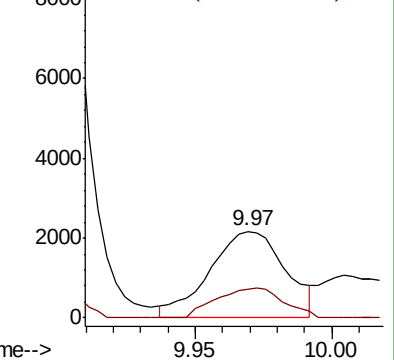
Ion Ratio Lower Upper

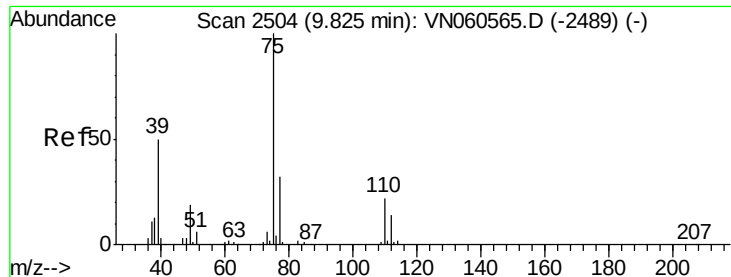
43 100

58 30.7 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060641.D (-2456) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.306 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060641.D

Acq: 19 Mar 2020 16:54

Instrument :

MSVOA_N

ClientSampleId :

TP-7A

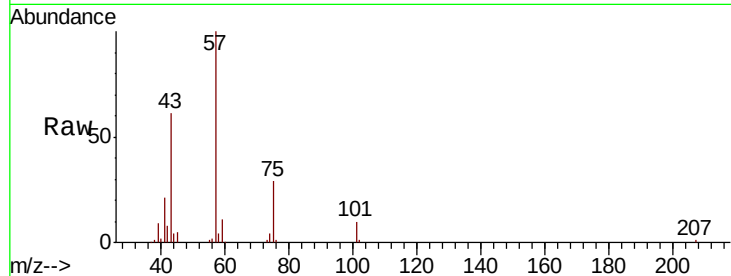
Tot Ion: 75 Resp: 21336

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

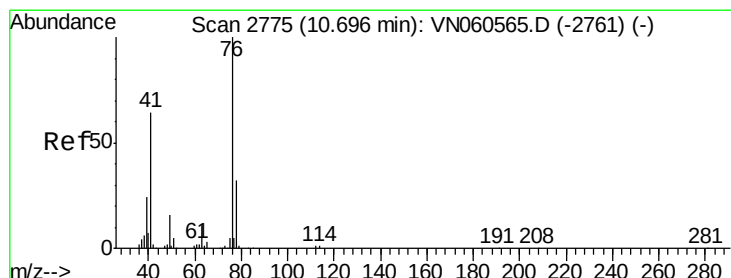
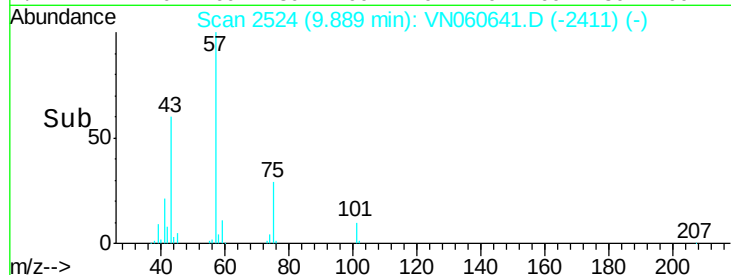
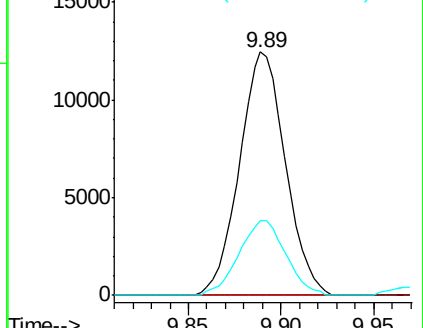
39 30.5 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060641.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060641.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060641.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 0.857 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060641.D

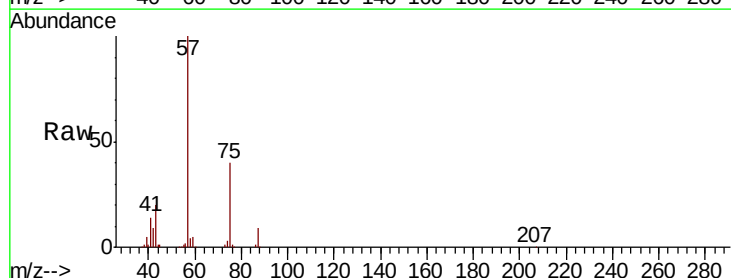
Acq: 19 Mar 2020 16:54

Tgt Ion: 76 Resp: 3325

Ion Ratio Lower Upper

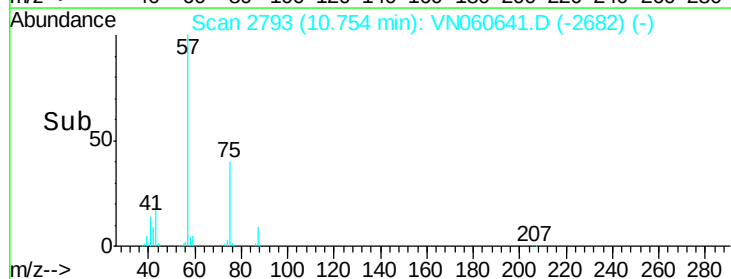
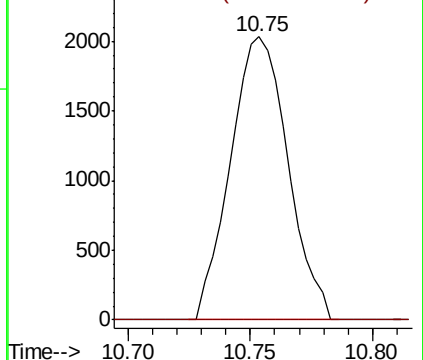
76 100

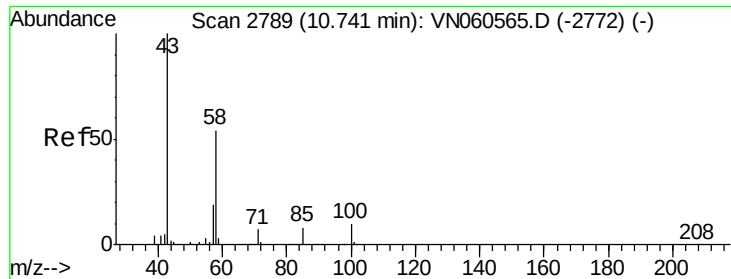
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060641.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060641.D (-2682) (-)

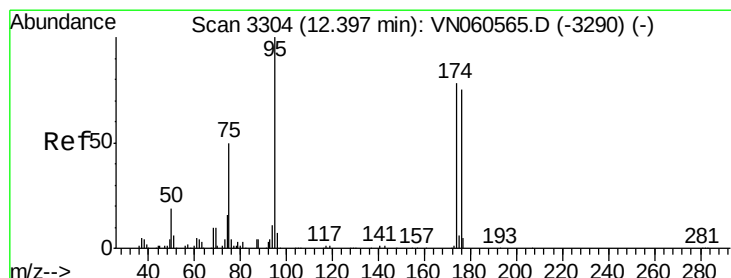
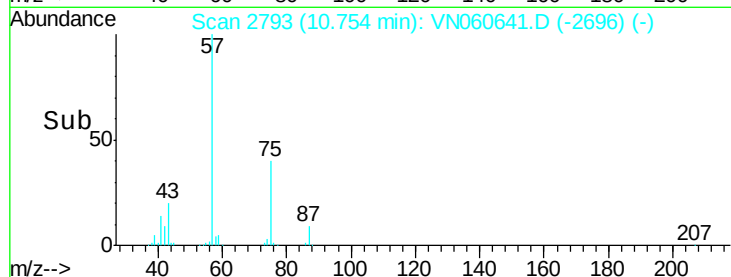
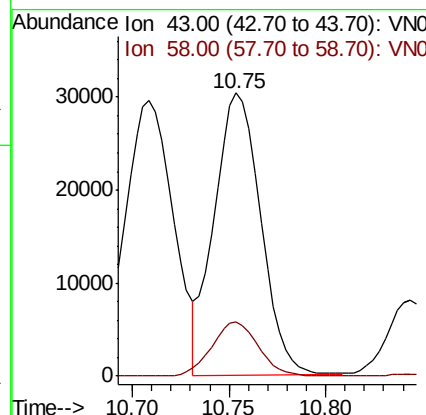
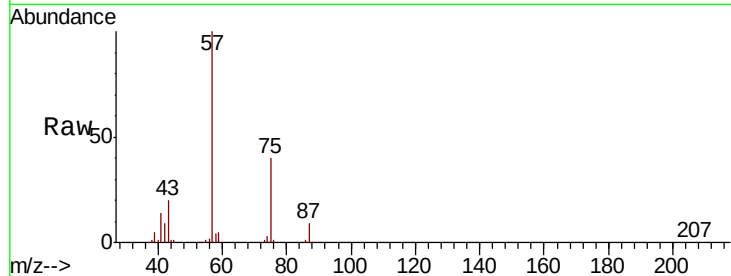




#59
2-Hexanone
Concen: 21.849 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

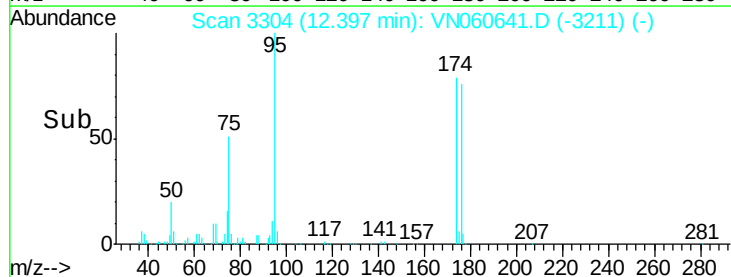
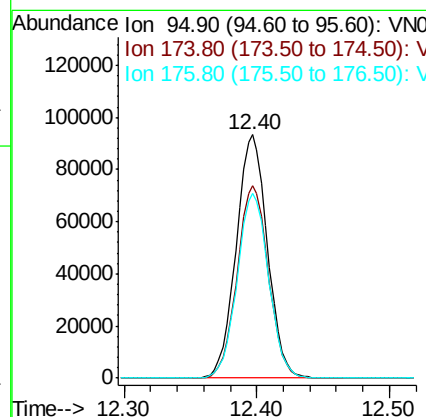
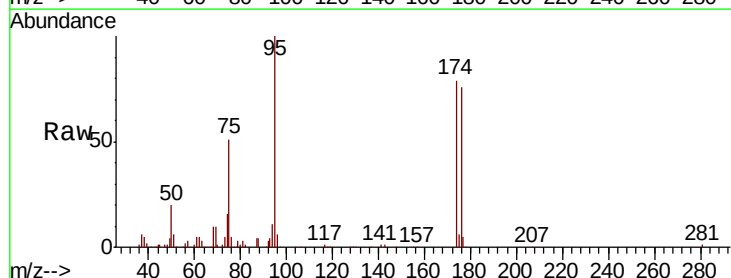
Instrument :
MSVOA_N
ClientSampleId :
TP-7A

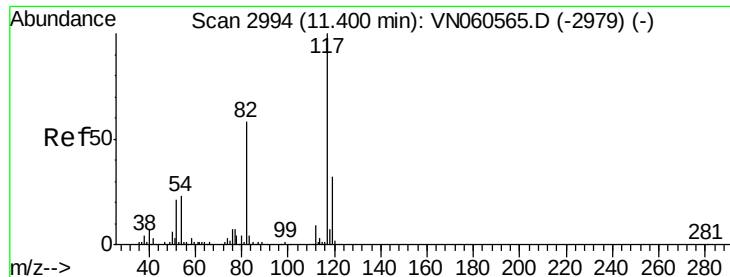
Tot Ion: 43 Resp: 50889
Ion Ratio Lower Upper
43 100
58 19.2 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.131 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

Tgt Ion: 95 Resp: 152402
Ion Ratio Lower Upper
95 100
174 79.2 0.0 157.6
176 76.2 0.0 150.6

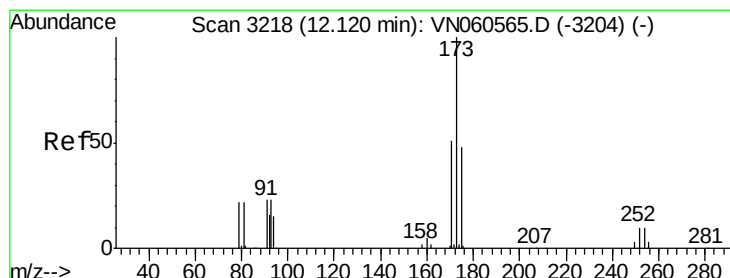
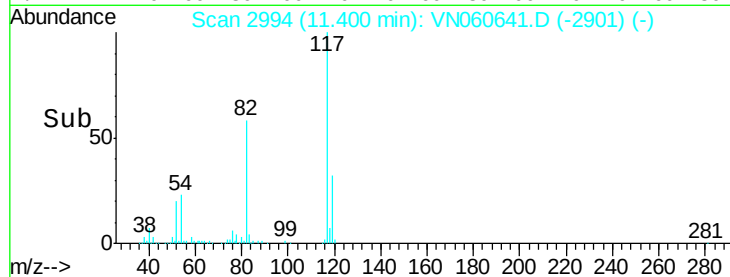
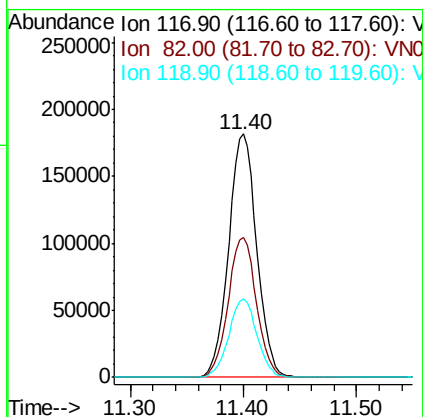
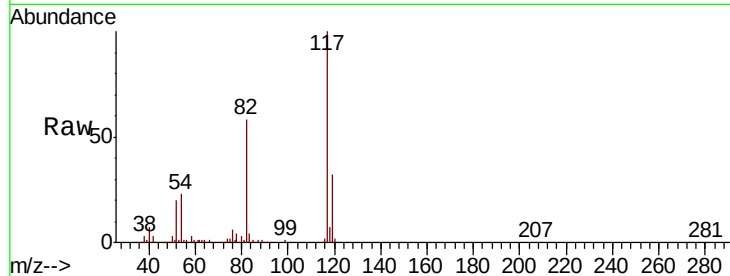




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

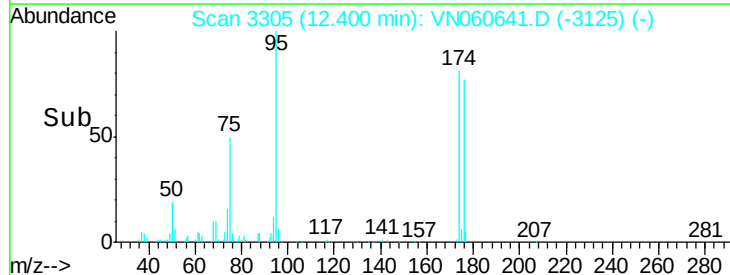
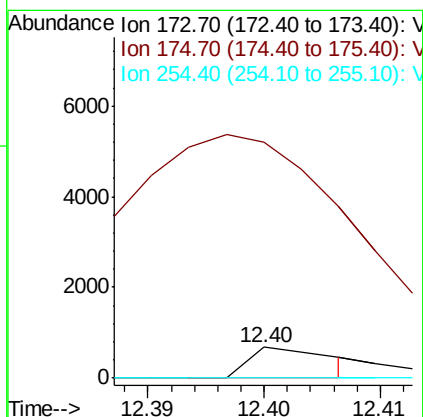
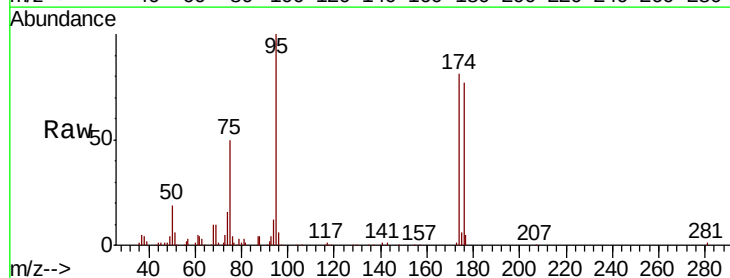
Instrument :
MSVOA_N
ClientSampled :
TP-7A

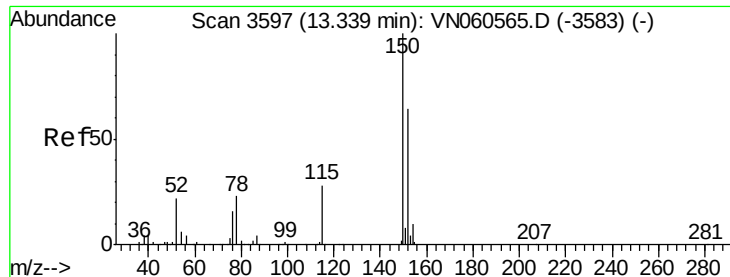
Tot Ion:117 Resp: 313690
Ion Ratio Lower Upper
117 100
82 57.5 46.7 70.1
119 32.3 25.5 38.3



#71
Bromoform
Concen: 1.851 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN060641.D
Acq: 19 Mar 2020 16:54

Tgt Ion:173 Resp: 331
Ion Ratio Lower Upper
173 100
175 2273.7 24.1 72.4#
254 0.0 0.0 0.0

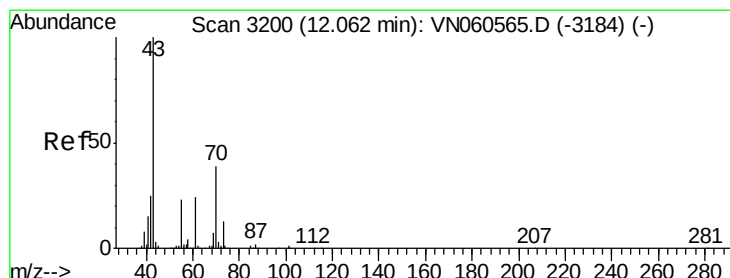
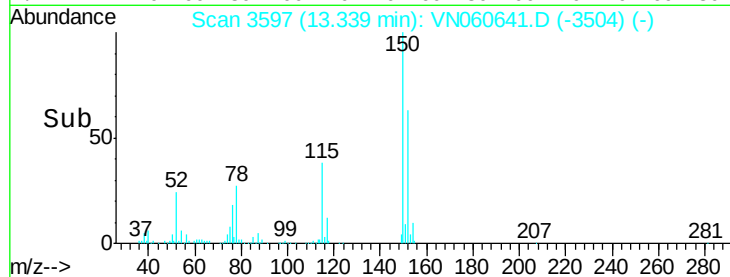
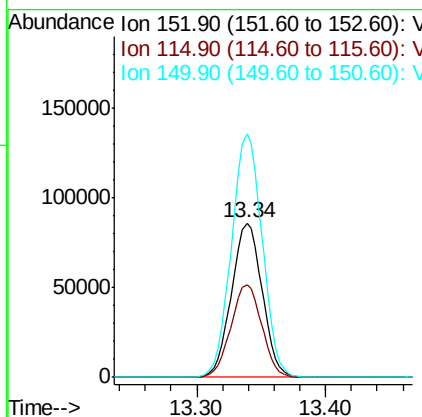
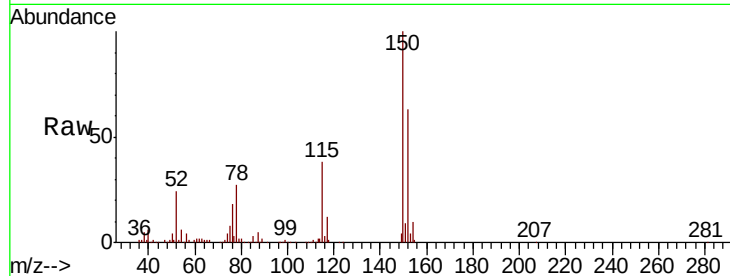




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

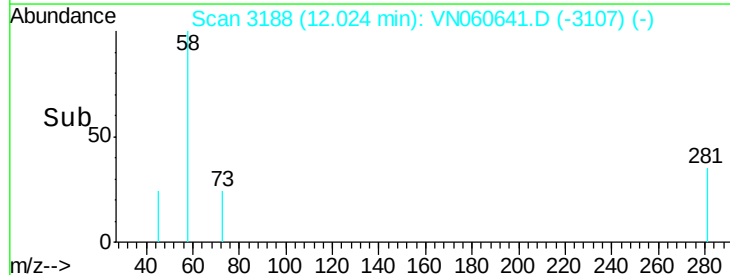
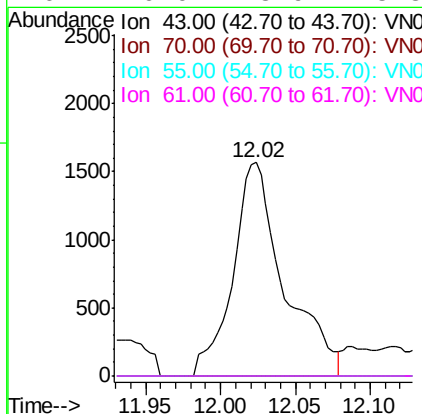
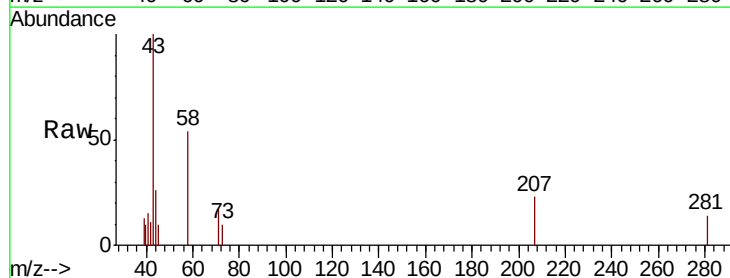
Instrument :
 MSVOA_N
 ClientSampled :
 TP-7A

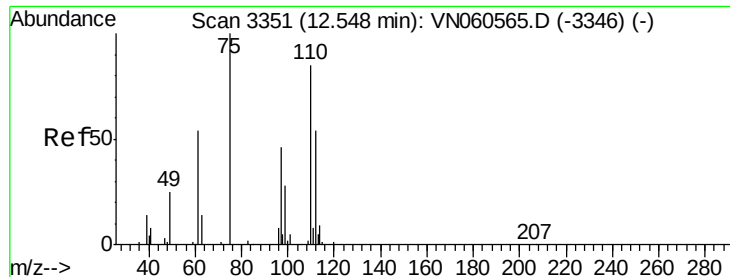
Tot Ion:152 Resp: 142270
 Ion Ratio Lower Upper
 152 100
 115 60.1 30.2 90.6
 150 157.9 0.0 350.2



#74
 N-ethyl acetate
 Concen: 0.758 ug/l
 RT: 12.02 min Scan# 3188
 Delta R.T. -0.04 min
 Lab File: VN060641.D
 Acq: 19 Mar 2020 16:54

Tgt Ion: 43 Resp: 3739
 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: 25.437 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060641.D

Acq: 19 Mar 2020 16:54

Instrument :

MSVOA_N

ClientSampled :

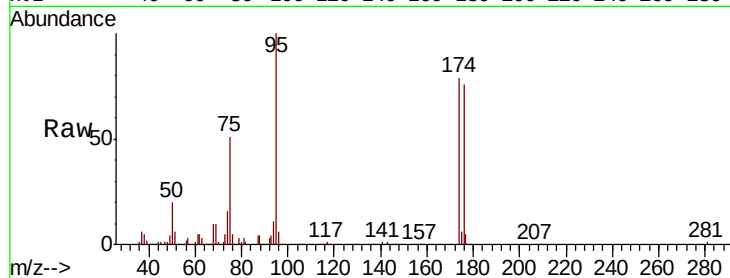
TP-7A

Tot Ion: 75 Resp: 78088

Ion Ratio Lower Upper

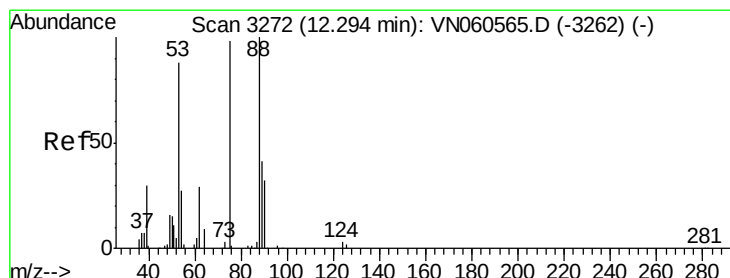
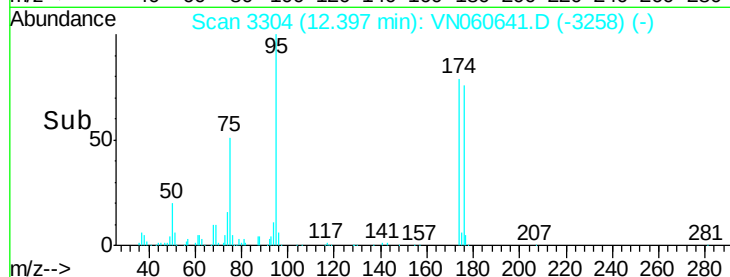
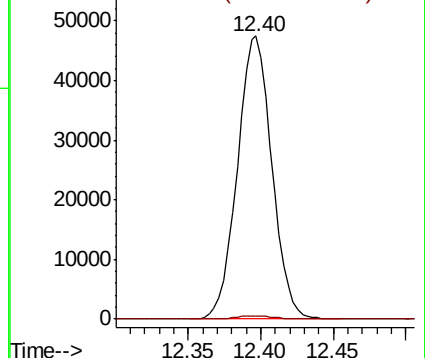
75 100

77 1.1 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: 65.329 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060641.D

Acq: 19 Mar 2020 16:54

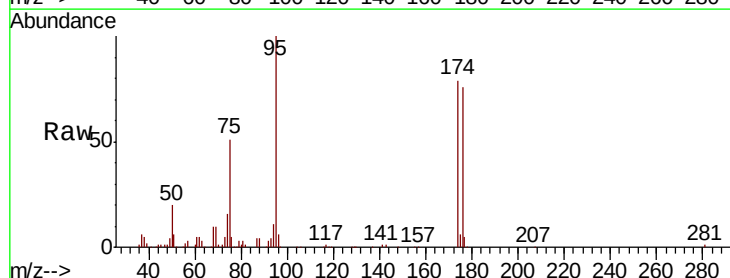
Tgt Ion: 75 Resp: 78088

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

