

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\
 Data File : VN060639.D
 Acq On : 19 Mar 2020 16:09
 Operator : JC/MD
 Sample : L1978-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5A

Quant Time: Mar 20 01:50:20 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	186701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	314513	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	295756	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	133474	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	123723	48.27	ug/l	0.00
Spiked Amount						
			Recovery	=	96.54%	
35) Dibromofluoromethane	7.56	113	93318	49.07	ug/l	0.00
Spiked Amount						
			Recovery	=	98.14%	
50) Toluene-d8	10.08	98	388546	50.02	ug/l	0.00
Spiked Amount						
			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.40	95	143566	50.43	ug/l	0.00
Spiked Amount						
			Recovery	=	100.86%	

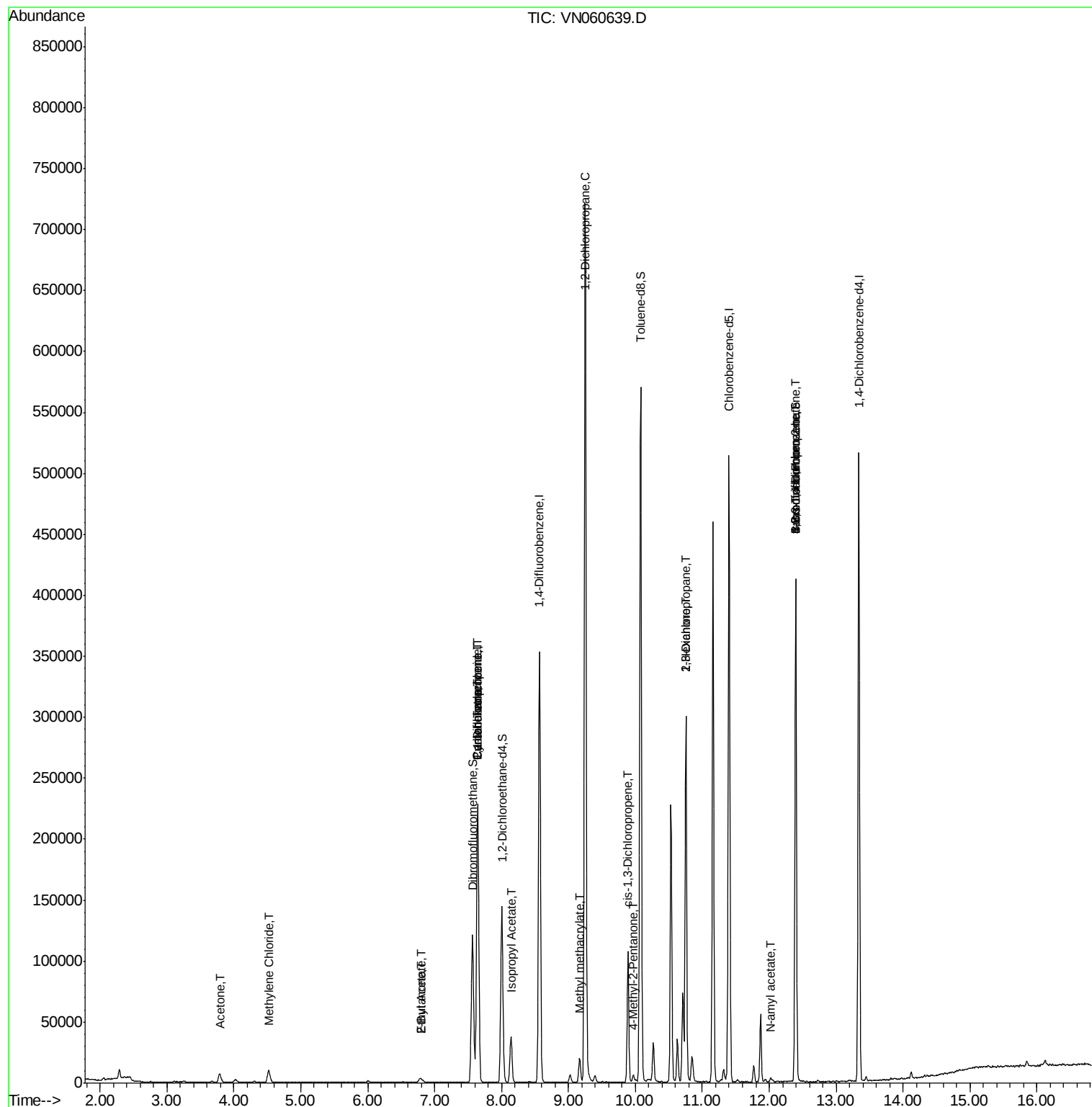
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	13806	15.207	ug/l	99
20) Methylene Chloride	4.52	84	7407	3.317	ug/l	96
25) 2-Butanone	6.81	43	2116	1.440	ug/l	95
31) Cyclohexane	7.64	56	3767	0.913	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14511	4.765	ug/l #	50
37) Ethyl Acetate	6.81	43	2116	0.643	ug/l #	70
38) Carbon Tetrachloride	7.64	117	17822	6.529	ug/l #	17
43) Isopropyl Acetate	8.14	43	45782	8.436	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	778	0.321	ug/l #	43
48) Methyl methacrylate	9.16	41	3647	1.509	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4985	1.614	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	19130	4.981	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3121	0.842	ug/l #	42
59) 2-Hexanone	10.75	43	43276	19.454	ug/l #	54
71) Bromoform	12.40	173	795	2.116	ug/l #	1
74) N-amyl acetate	12.02	43	3953	0.854	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	73985	25.688	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	73985	65.975	ug/l #	13

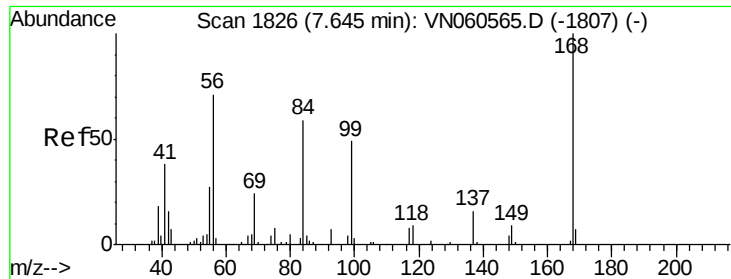
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampled :

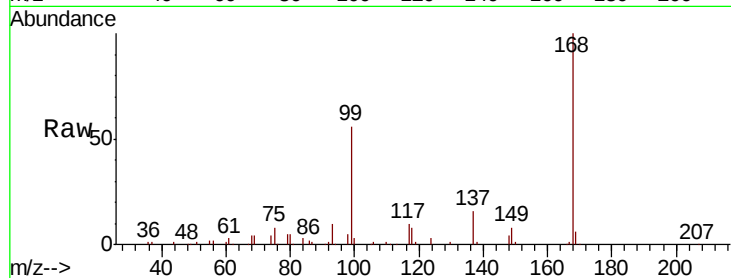
TP-5A

Tot Ion:168 Resp: 186701

Ion Ratio Lower Upper

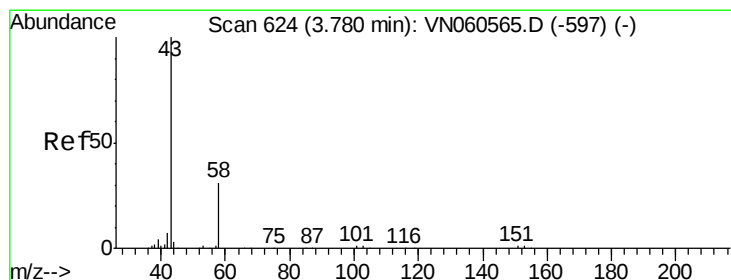
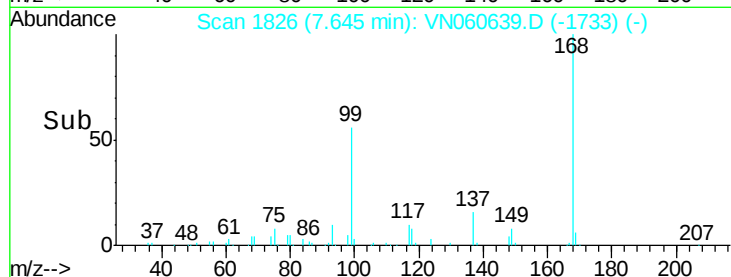
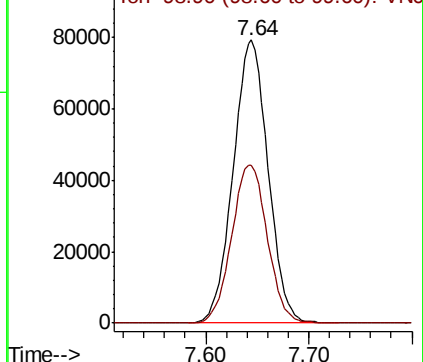
168 100

99 55.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 15.207 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060639.D

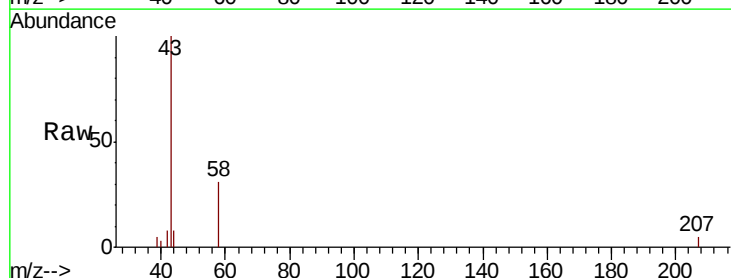
Acq: 19 Mar 2020 16:09

Tgt Ion: 43 Resp: 13806

Ion Ratio Lower Upper

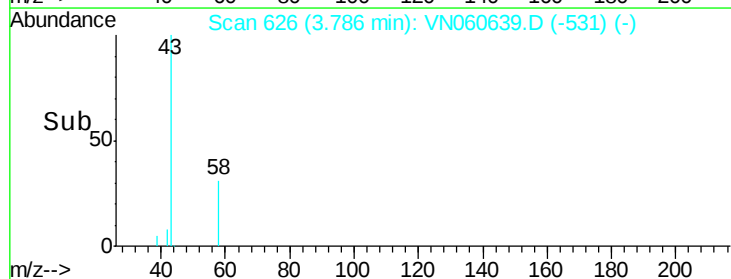
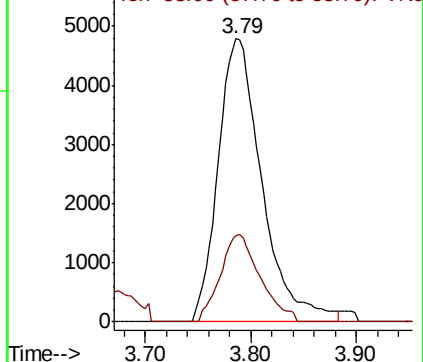
43 100

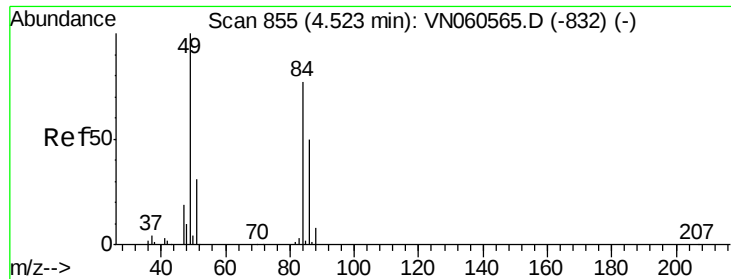
58 30.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

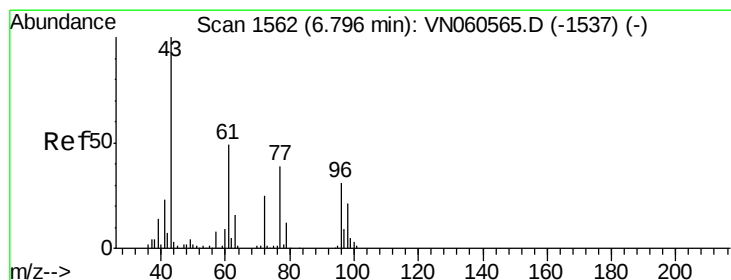
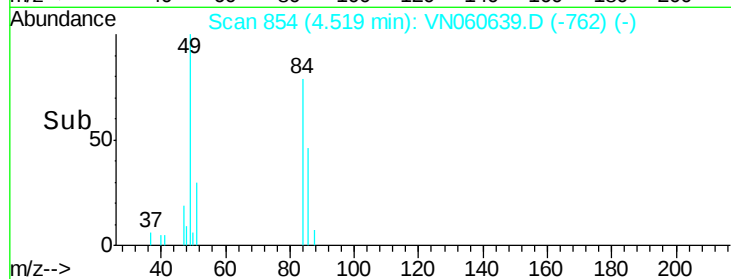
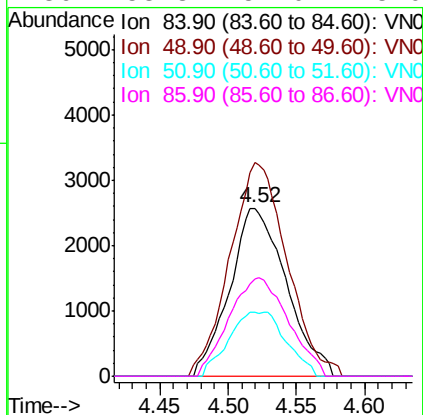
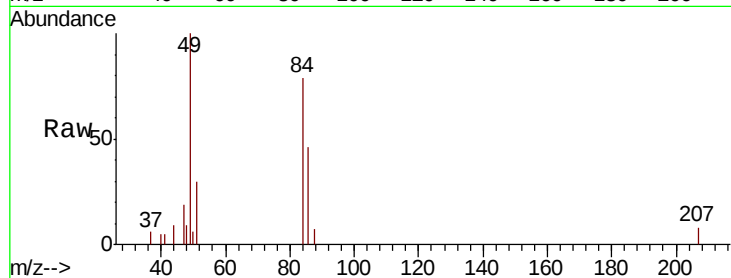




#20
Methvlene Chloride
Concen: 3.317 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060639.D
Acq: 19 Mar 2020 16:09

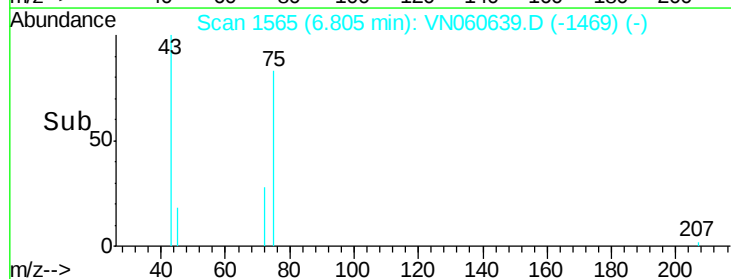
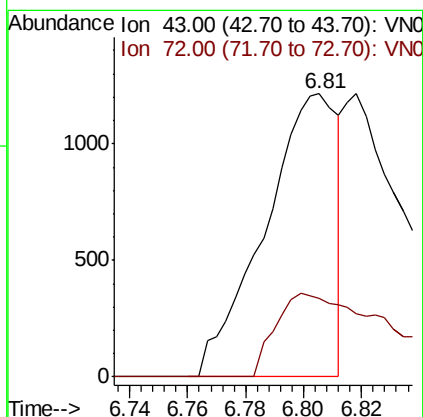
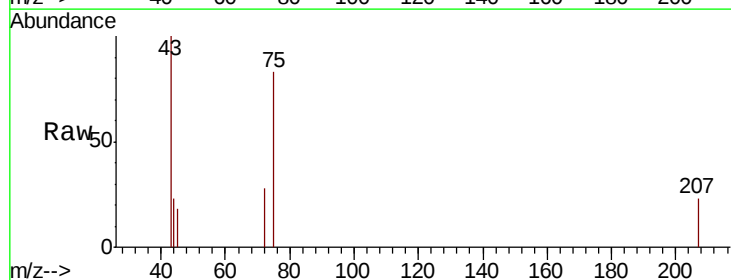
Instrument :
MSVOA_N
ClientSampleId :
TP-5A

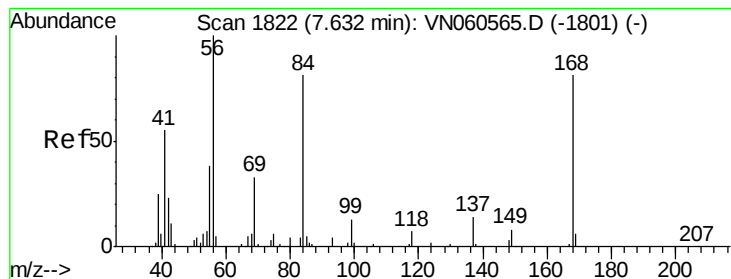
Tot Ion:	84	Resp:	7407
Ion	Ratio	Lower	Upper
84	100		
49	127.3	103.3	154.9
51	38.2	31.6	47.4
86	58.3	52.0	78.0



#25
2-Butanone
Concen: 1.440 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060639.D
Acq: 19 Mar 2020 16:09

Tgt Ion:	43	Resp:	2116
Ion	Ratio	Lower	Upper
43	100		
72	27.8	20.4	30.6





#31

Cyclohexane

Concen: 0.913 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampled :

TP-5A

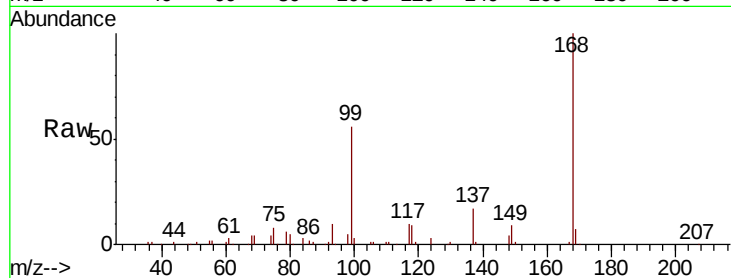
Tot Ion: 56 Resp: 3767

Ion Ratio Lower Upper

56 100

69 175.0 26.6 40.0#

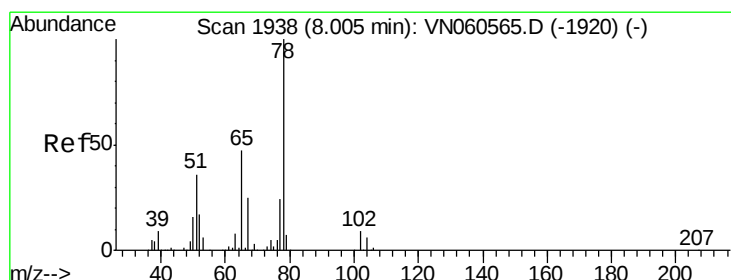
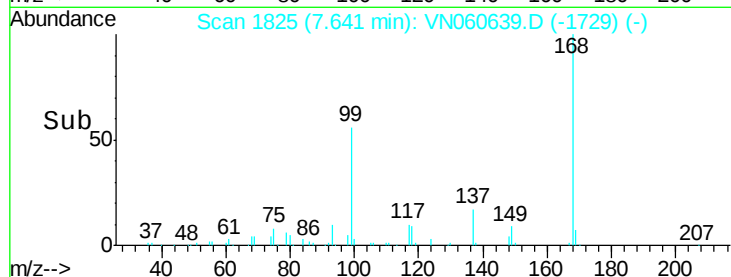
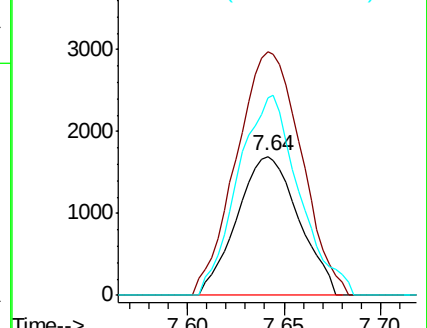
84 141.6 64.3 96.5#



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: 48.273 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060639.D

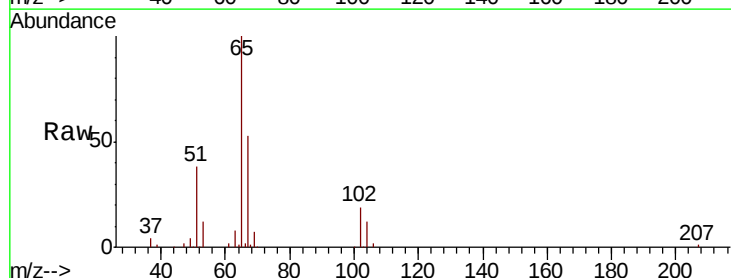
Acq: 19 Mar 2020 16:09

Tgt Ion: 65 Resp: 123723

Ion Ratio Lower Upper

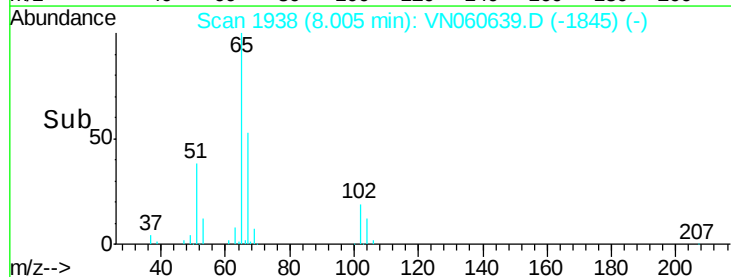
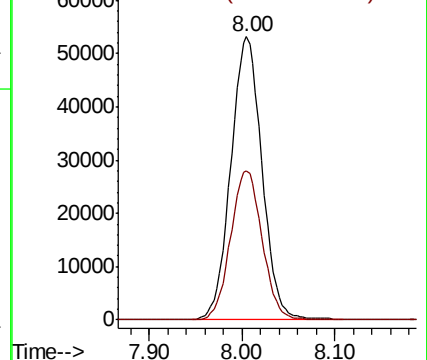
65 100

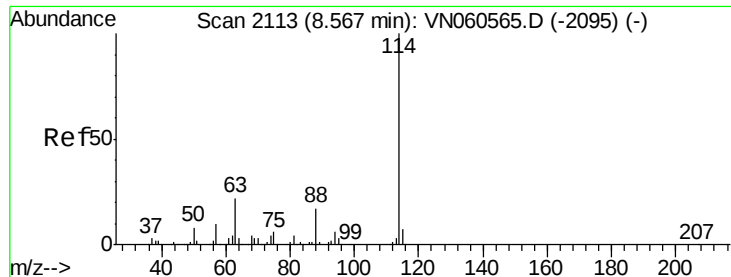
67 53.3 0.0 107.6



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: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampleId :

TP-5A

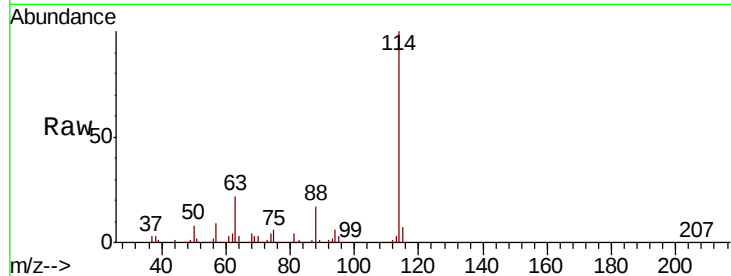
Tot Ion:114 Resp: 314513

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

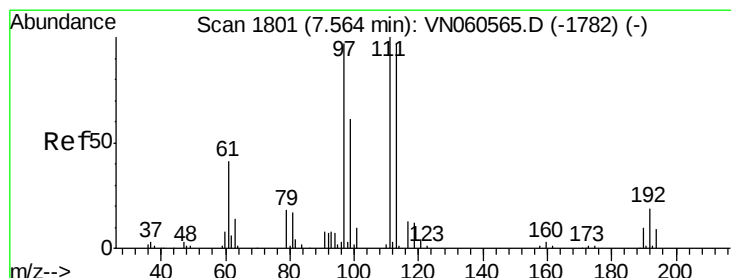
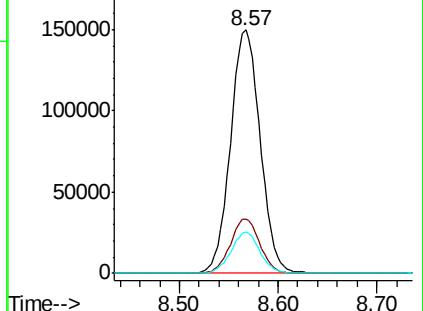
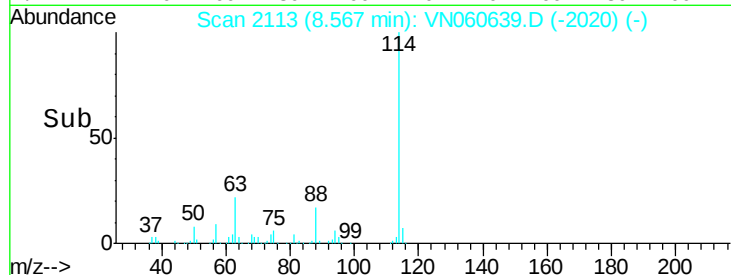
88 16.8 0.0 33.0



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: 49.069 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

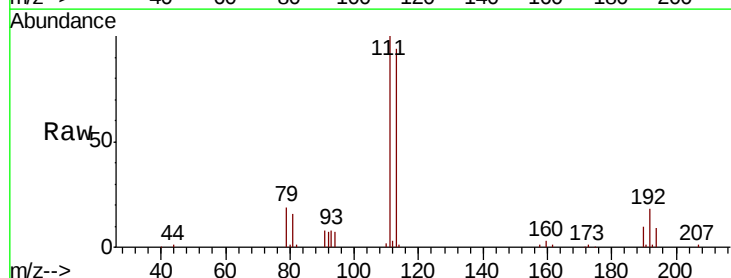
Tgt Ion:113 Resp: 93318

Ion Ratio Lower Upper

113 100

111 103.1 82.9 124.3

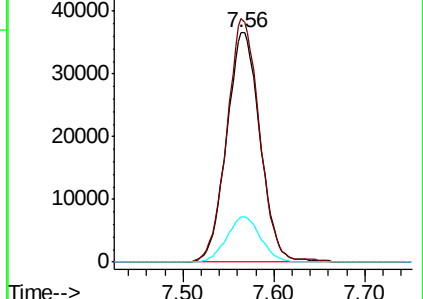
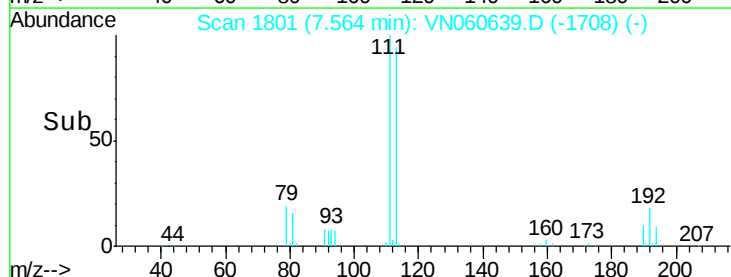
192 19.9 15.8 23.8

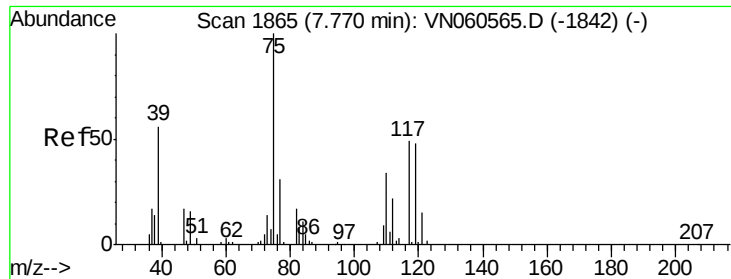


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.765 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampled :

TP-5A

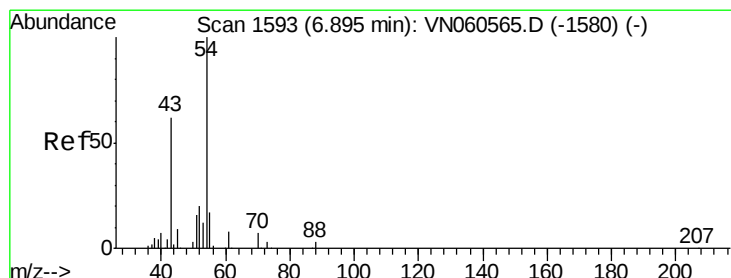
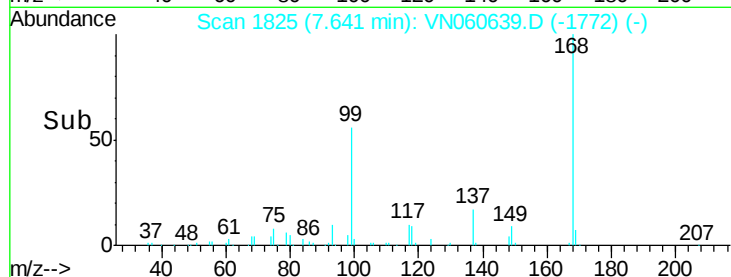
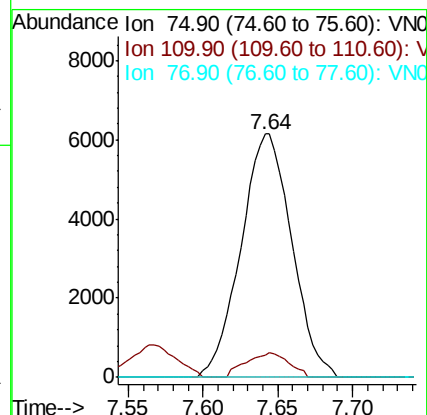
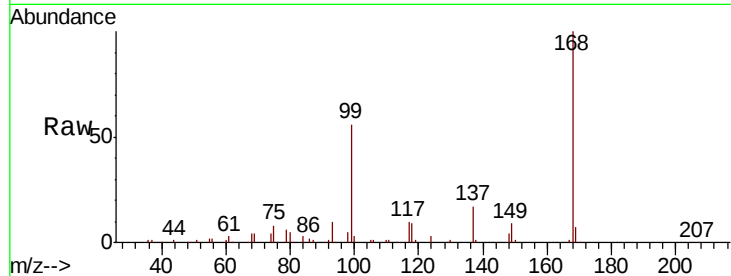
Tot Ion: 75 Resp: 14511

Ion Ratio Lower Upper

75 100

110 8.5 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 0.643 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

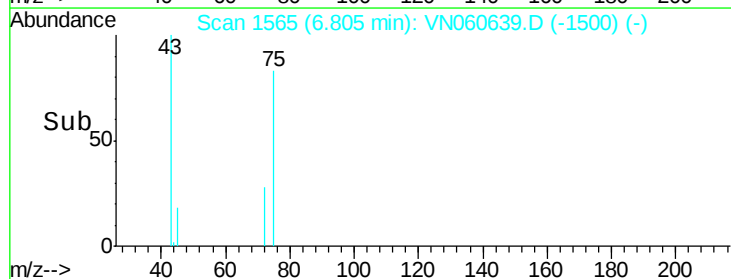
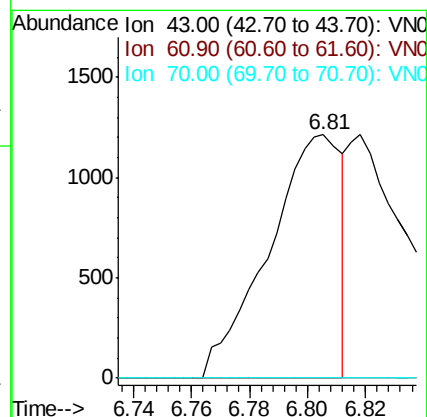
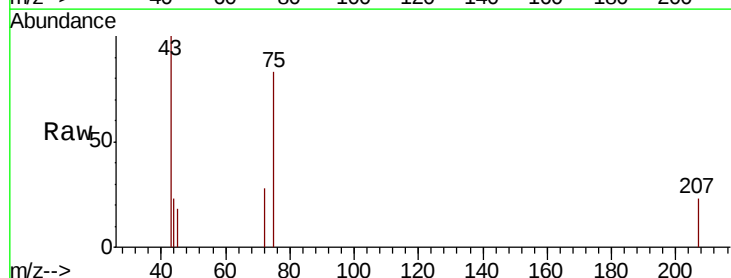
Tgt Ion: 43 Resp: 2116

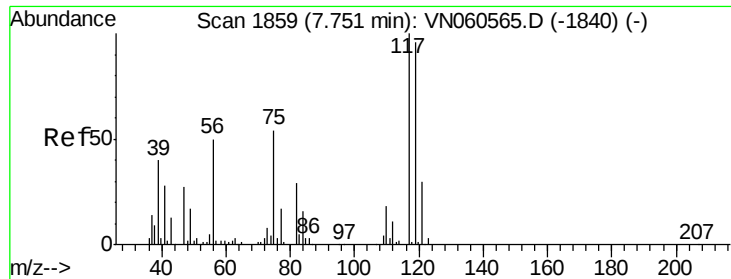
Ion Ratio Lower Upper

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# 1826

Delta R.T. -0.11 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

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ClientSampled :

TP-5A

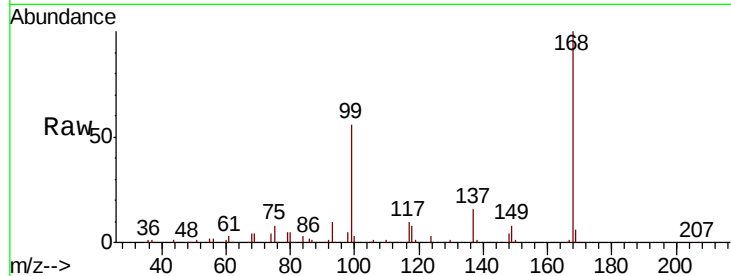
Tot Ion:117 Resp: 17822

Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.2#

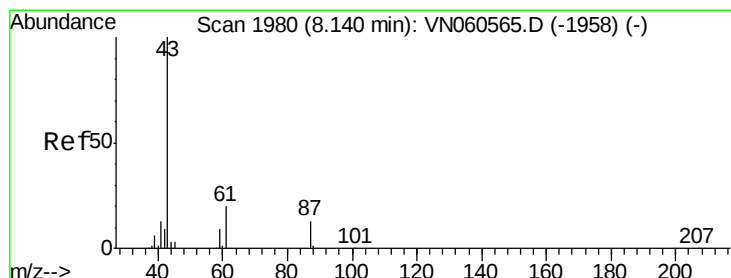
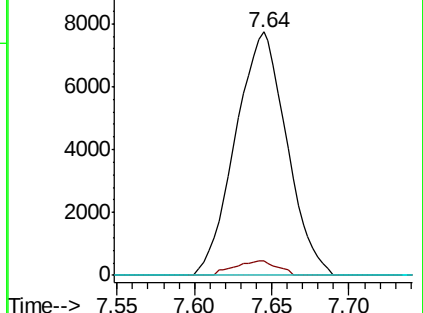
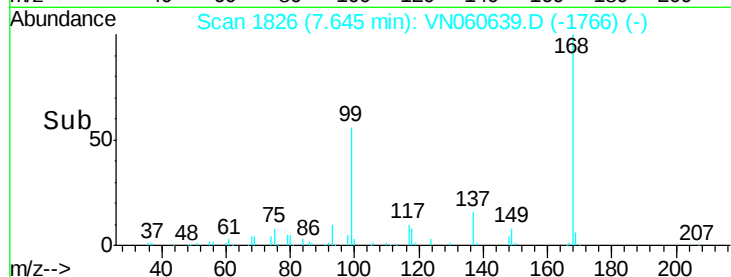
121 0.0 23.7 35.5#



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: 8.436 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

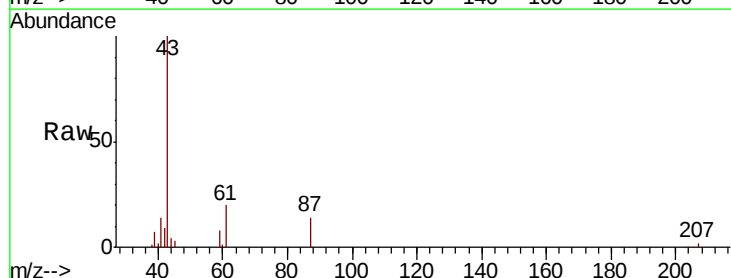
Tgt Ion: 43 Resp: 45782

Ion Ratio Lower Upper

43 100

61 19.6 20.7 31.1#

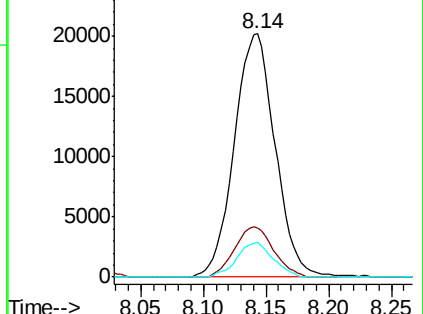
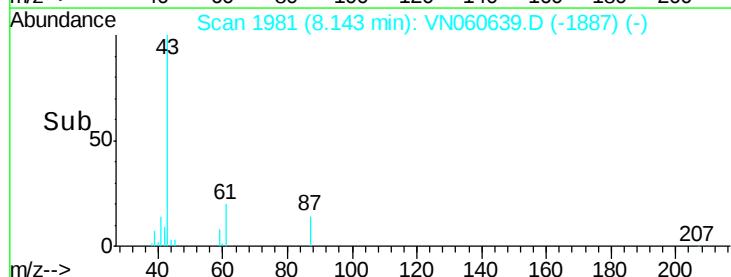
87 12.6 9.8 14.8

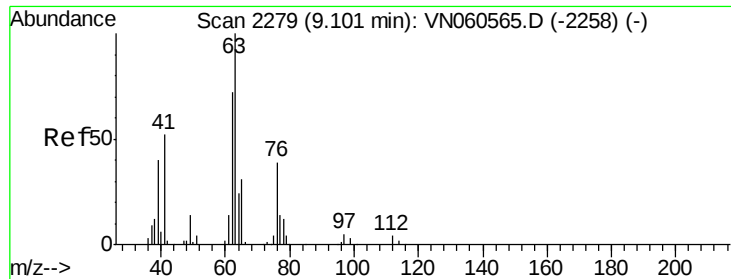


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.321 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampleId :

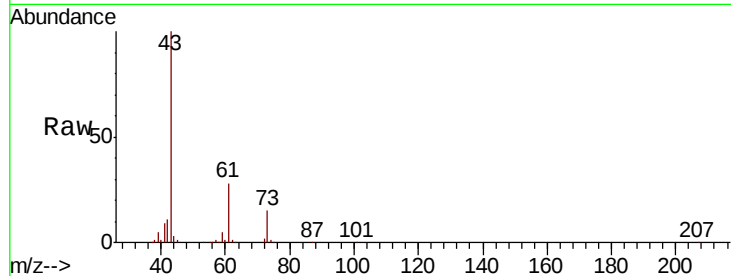
TP-5A

Tot Ion: 63 Resp: 778

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

9.25

500

400

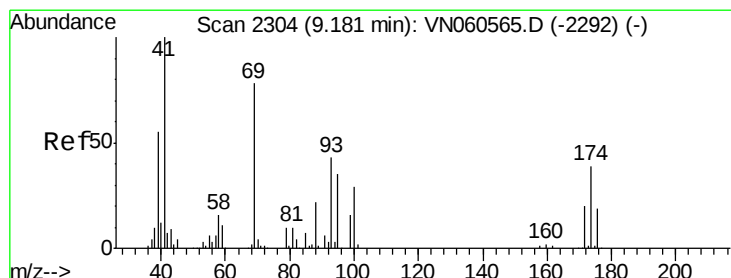
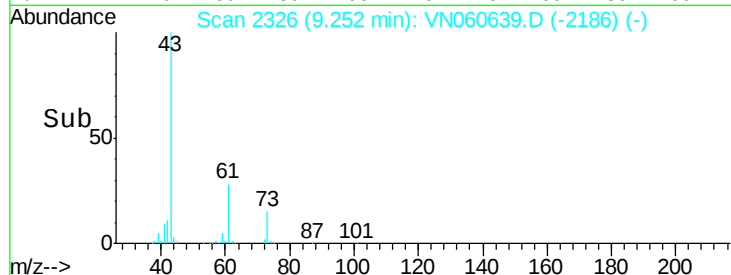
300

200

100

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.509 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

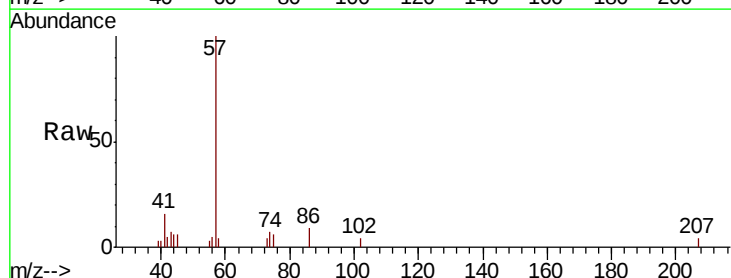
Tgt Ion: 41 Resp: 3647

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

30000

25000

20000

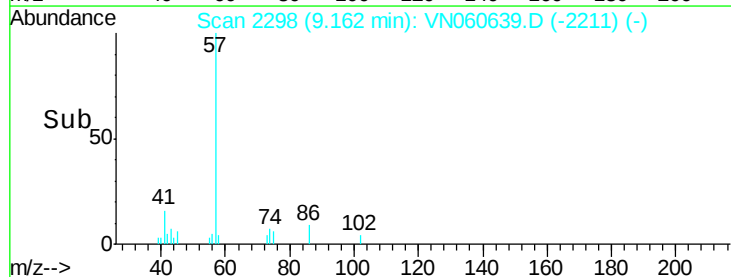
15000

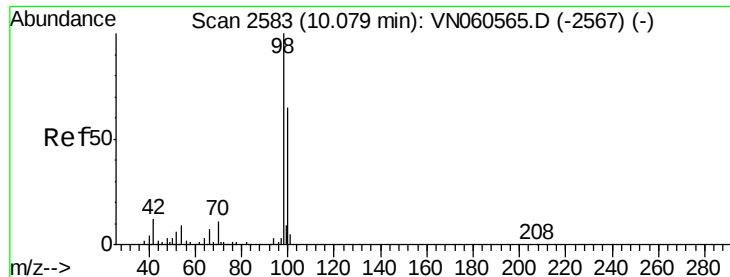
10000

5000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 50.019 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampleId :

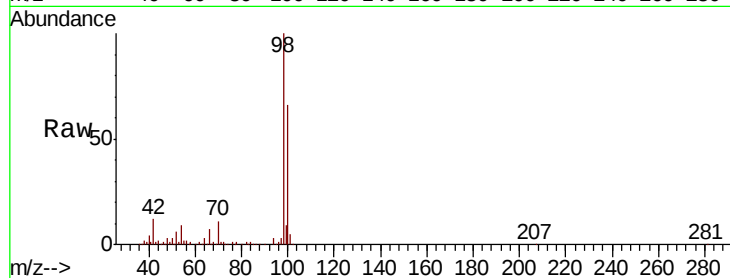
TP-5A

Tot Ion: 98 Resp: 388546

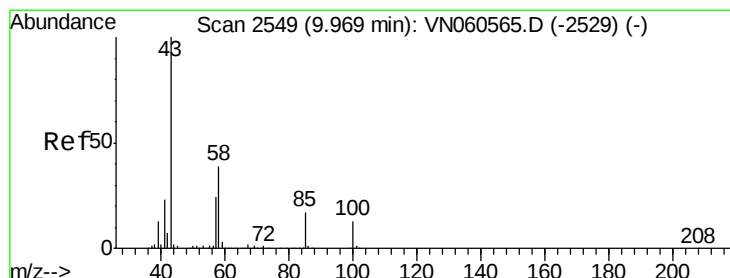
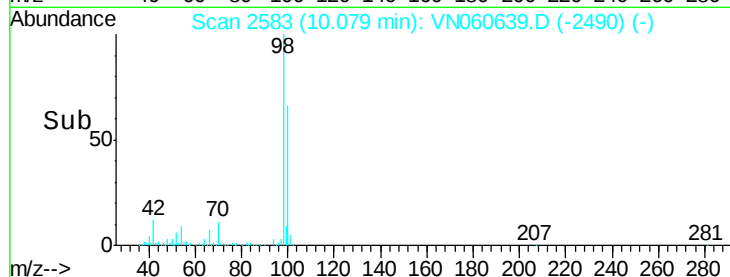
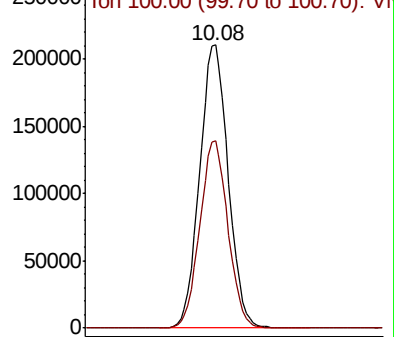
Ion Ratio Lower Upper

98 100

100 65.4 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060639.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.614 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060639.D

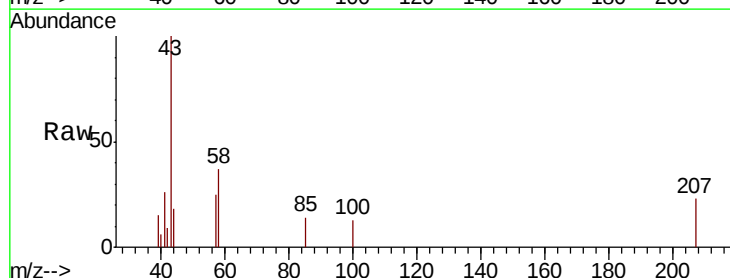
Acq: 19 Mar 2020 16:09

Tgt Ion: 43 Resp: 4985

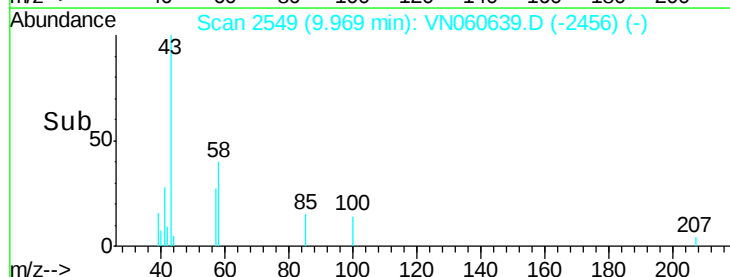
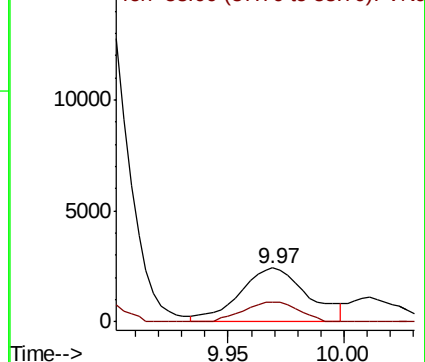
Ion Ratio Lower Upper

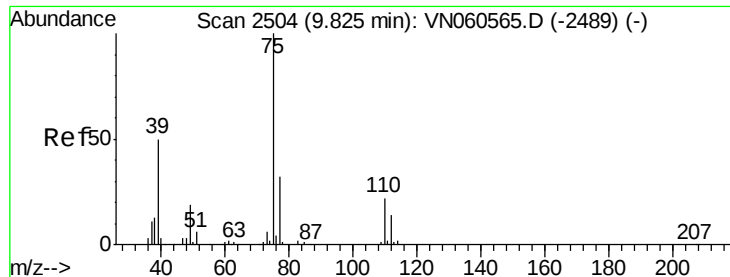
43 100

58 29.7 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060639.D (-2456) (-)

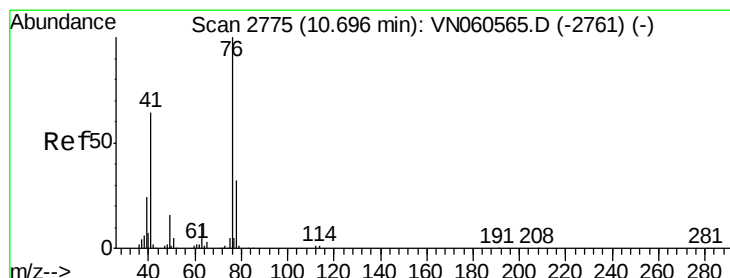
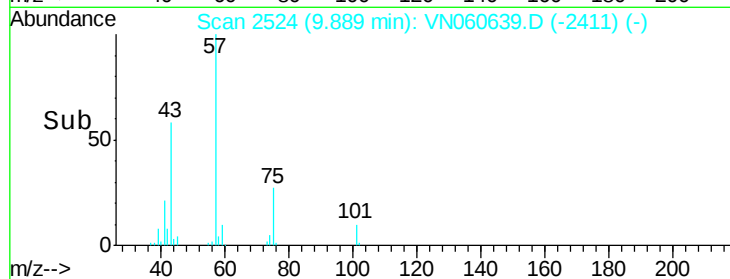
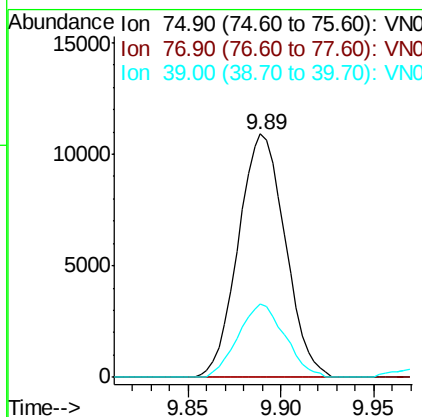
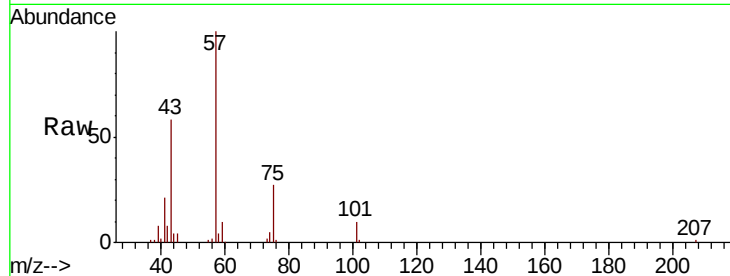




#54
 cis-1,3-Dichloropropene
 Concen: 4.981 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060639.D
 Acq: 19 Mar 2020 16:09

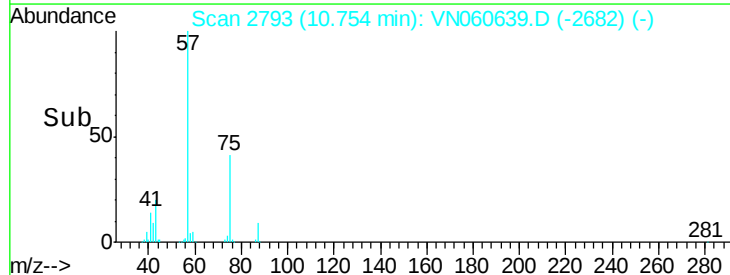
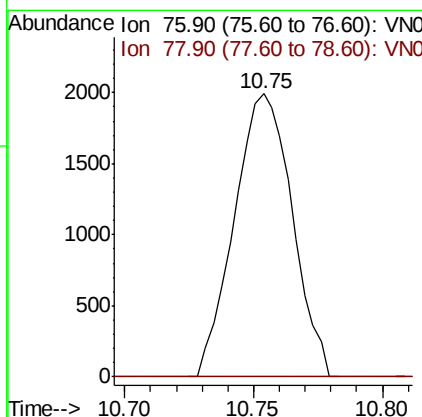
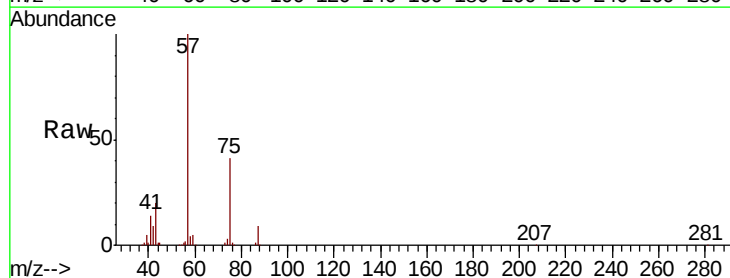
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5A

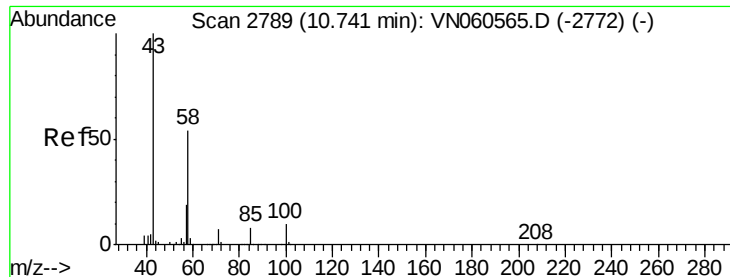
Tot Ion: 75 Resp: 19130
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 30.3 40.2 60.4#



#57
 1,3-Dichloropropane
 Concen: 0.842 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060639.D
 Acq: 19 Mar 2020 16:09

Tgt Ion: 76 Resp: 3121
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#

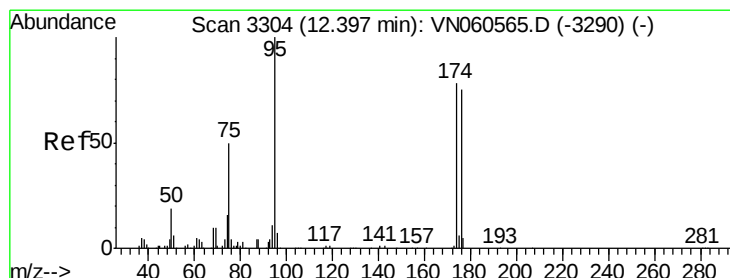
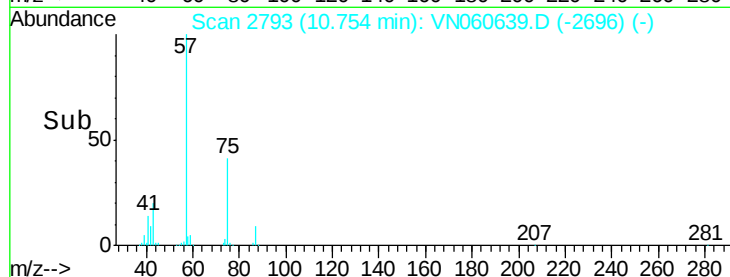
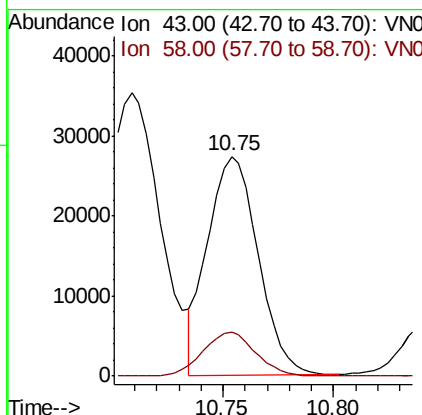
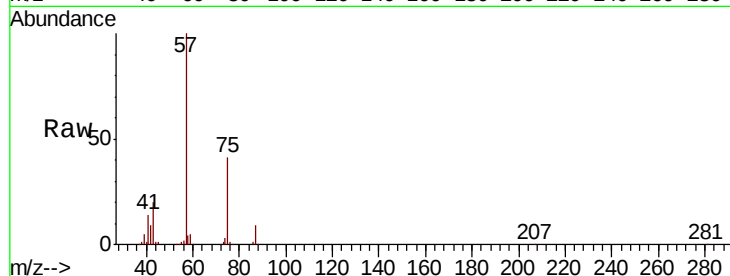




#59
2-Hexanone
Concen: 19.454 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060639.D
Acq: 19 Mar 2020 16:09

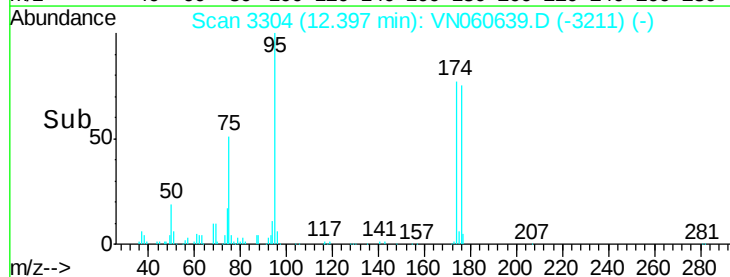
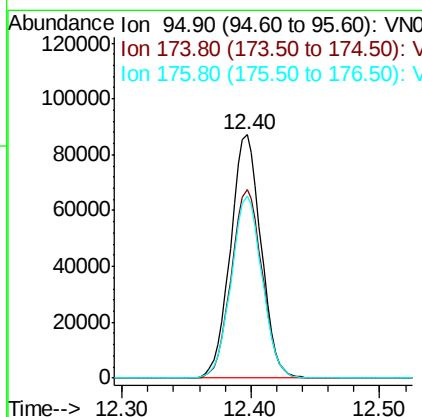
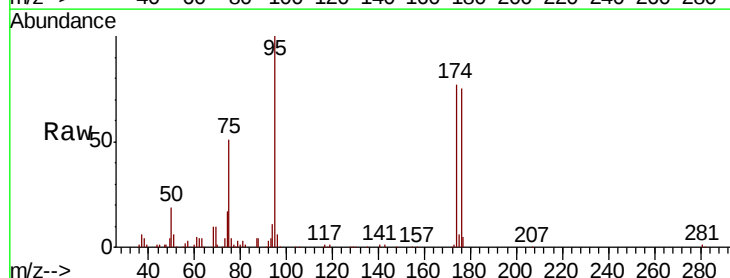
Instrument :
MSVOA_N
ClientSampleId :
TP-5A

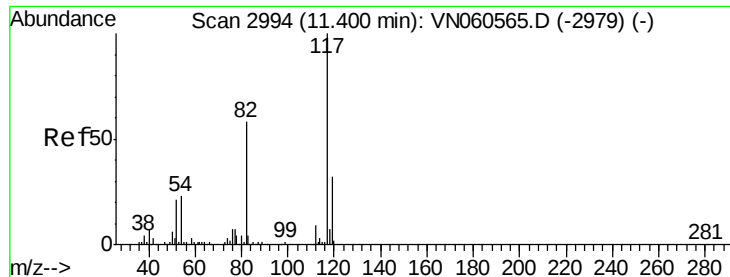
Tot Ion: 43 Resp: 43276
Ion Ratio Lower Upper
43 100
58 20.8 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 50.430 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060639.D
Acq: 19 Mar 2020 16:09

Tgt Ion: 95 Resp: 143566
Ion Ratio Lower Upper
95 100
174 78.4 0.0 157.6
176 75.6 0.0 150.6

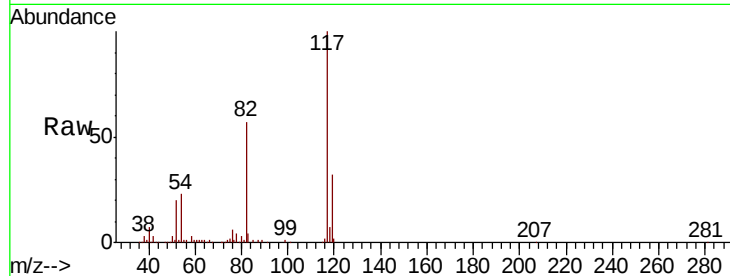




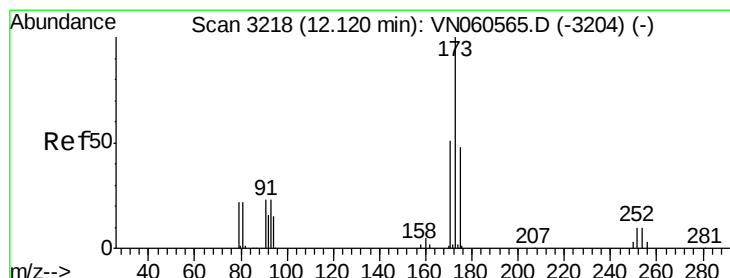
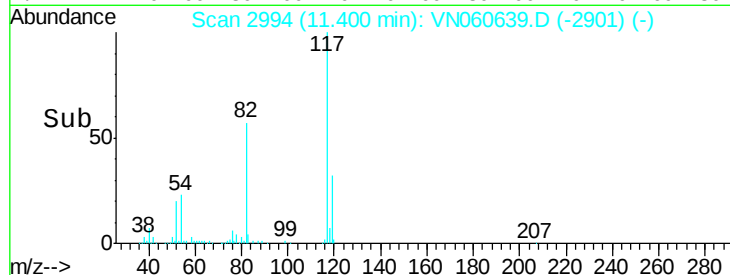
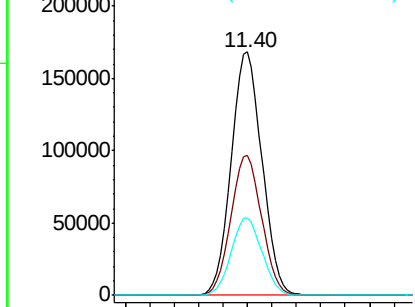
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060639.D
Acq: 19 Mar 2020 16:09

Instrument :
MSVOA_N
ClientSampled :
TP-5A

Tot Ion:117 Resp: 295756
Ion Ratio Lower Upper
117 100
82 57.3 46.7 70.1
119 31.9 25.5 38.3

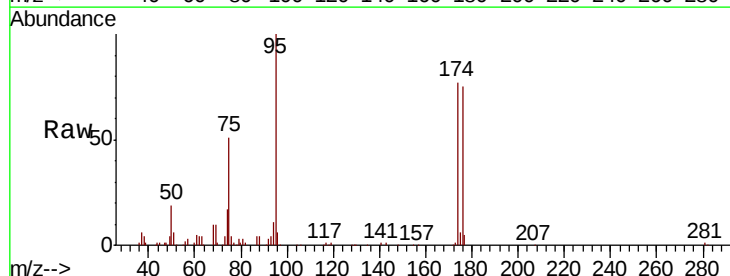


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

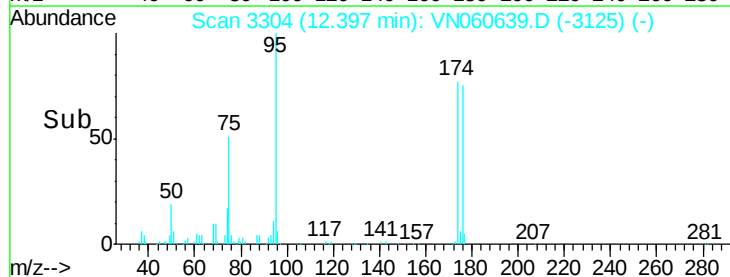
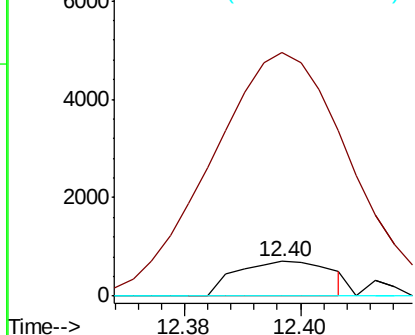


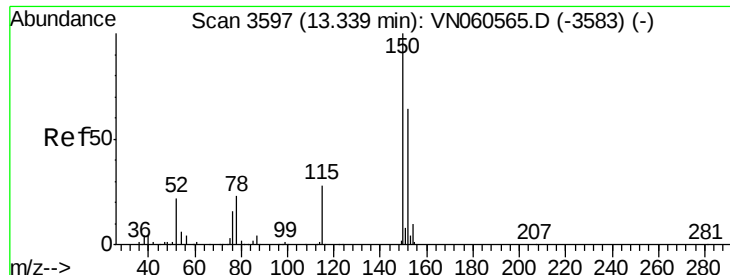
#71
Bromoform
Concen: 2.116 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060639.D
Acq: 19 Mar 2020 16:09

Tgt Ion:173 Resp: 795
Ion Ratio Lower Upper
173 100
175 885.2 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: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampleId :

TP-5A

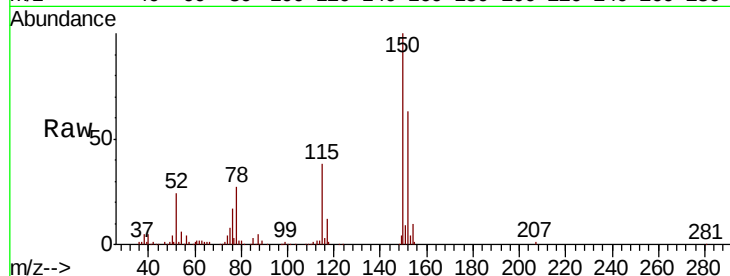
Tot Ion:152 Resp: 133474

Ion Ratio Lower Upper

152 100

115 59.8 30.2 90.6

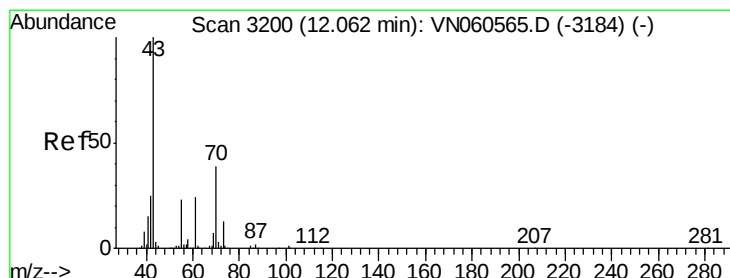
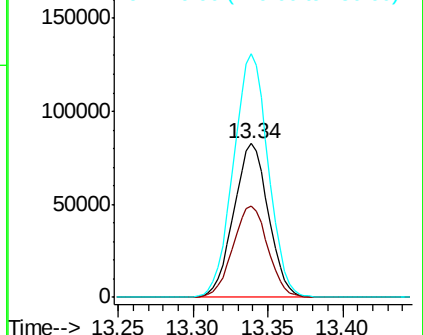
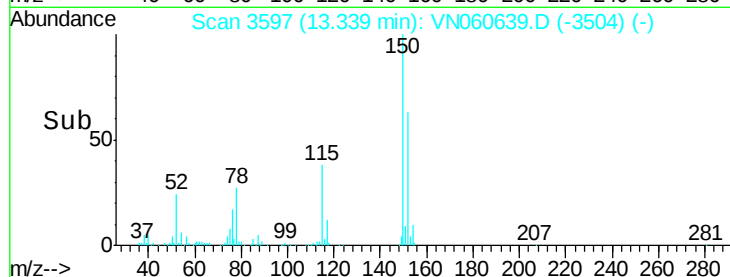
150 158.8 0.0 350.2



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: 0.854 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Tgt Ion: 43 Resp: 3953

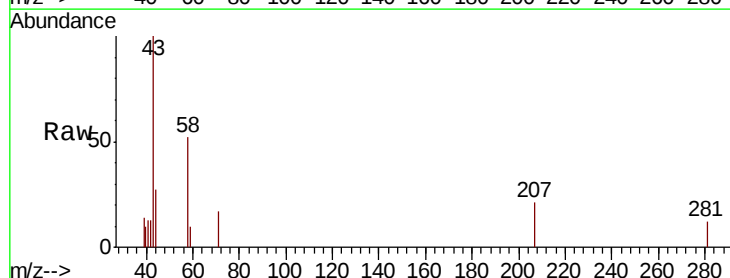
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

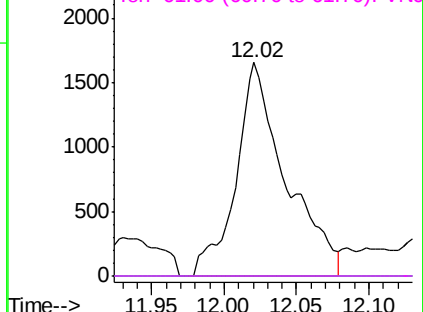
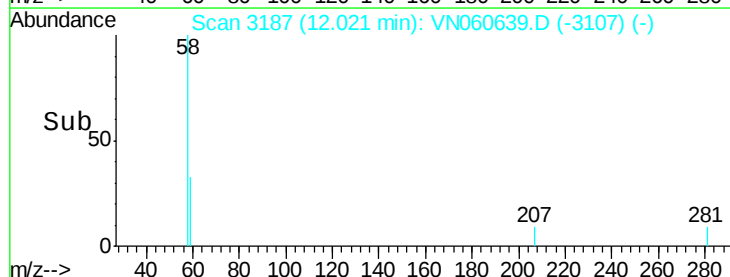


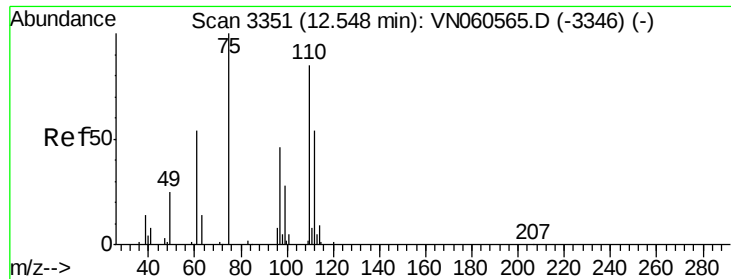
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.688 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

Instrument :

MSVOA_N

ClientSampled :

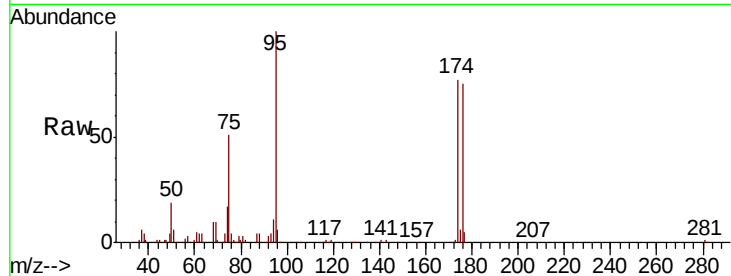
TP-5A

Tot Ion: 75 Resp: 73985

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

12.40

50000

40000

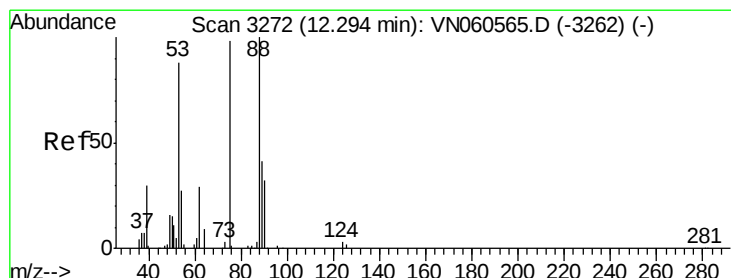
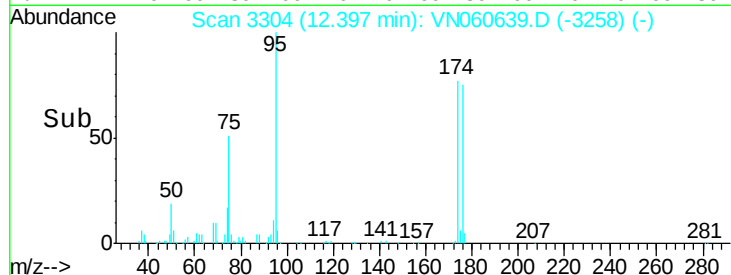
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.975 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060639.D

Acq: 19 Mar 2020 16:09

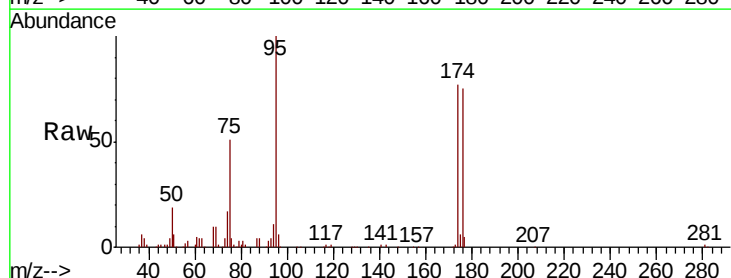
Tgt Ion: 75 Resp: 73985

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

60000

50000

40000

30000

20000

10000

0

Time-->

