

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041320\
 Data File : VN060919.D
 Acq On : 13 Apr 2020 23:36
 Operator : JC/MD
 Sample : L2199-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-37-36-COMP

Quant Time: Apr 14 07:26:13 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	154034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	259890	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	242109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109172	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	102116	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
35) Dibromofluoromethane	7.56	113	75703	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	10.08	98	322232	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	12.40	95	121341	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	

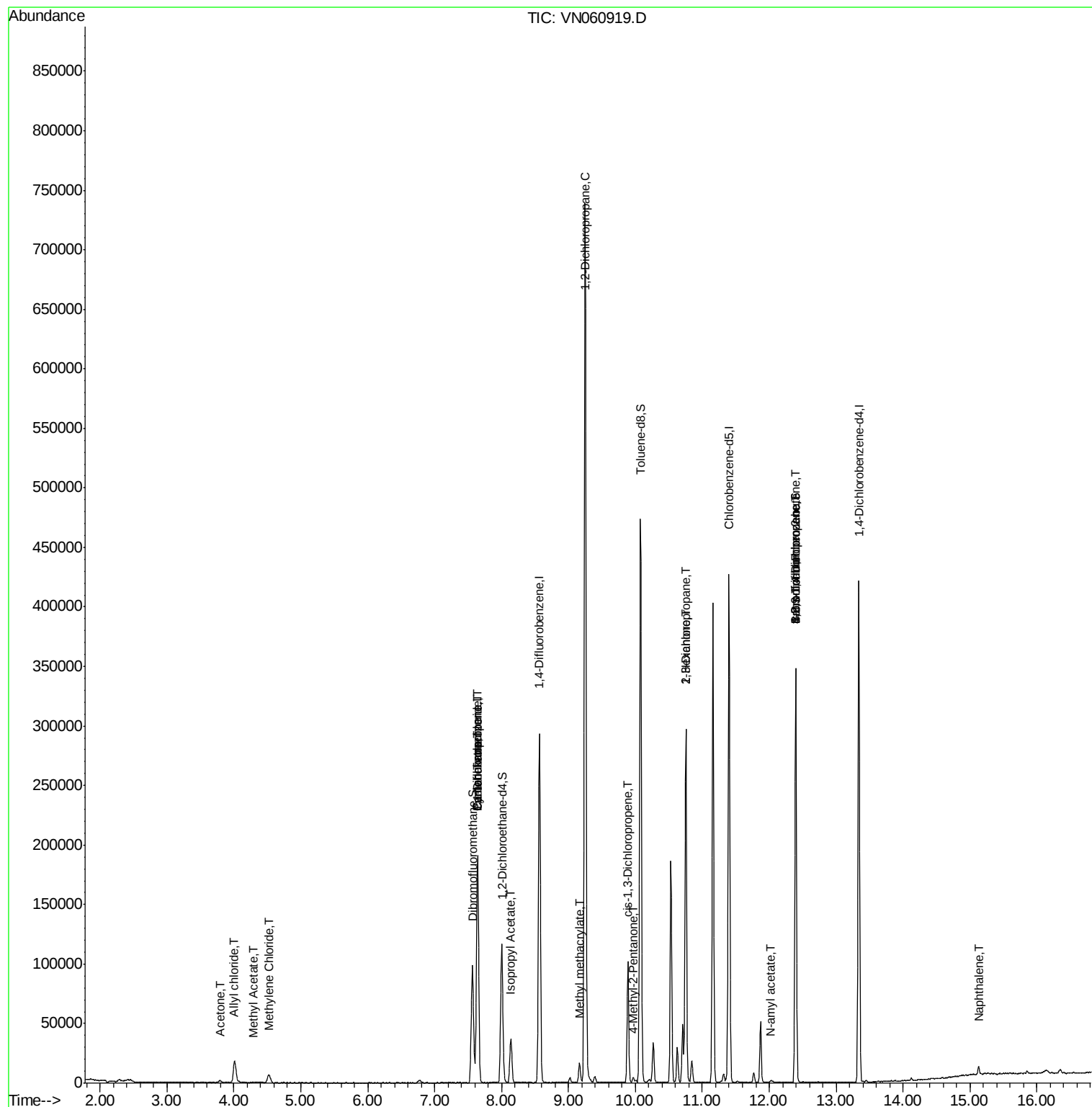
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.01	41	2076	0.708	ug/l #	67
16) Acetone	3.78	43	3913	5.224	ug/l	99
18) Methyl Acetate	4.29	43	1285	0.610	ug/l #	54
20) Methylene Chloride	4.52	84	5529	3.001	ug/l	96
31) Cyclohexane	7.64	56	3372	0.990	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12340	4.904	ug/l #	49
38) Carbon Tetrachloride	7.64	117	14947	6.627	ug/l #	16
43) Isopropyl Acetate	8.14	43	44987	10.032	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	790	0.394	ug/l #	43
48) Methyl methacrylate	9.16	41	2186	1.095	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	2572	1.008	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	17532	5.525	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2922	0.954	ug/l #	42
59) 2-Hexanone	10.75	43	44218	24.055	ug/l #	52
71) Bromoform	12.39	173	390	1.941	ug/l #	1
74) N-amyl acetate	12.02	43	2376	0.628	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	60884	25.845	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	60884	66.378	ug/l #	13
95) Naphthalene	15.13	128	5961	0.969	ug/l	97

(#) = 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: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

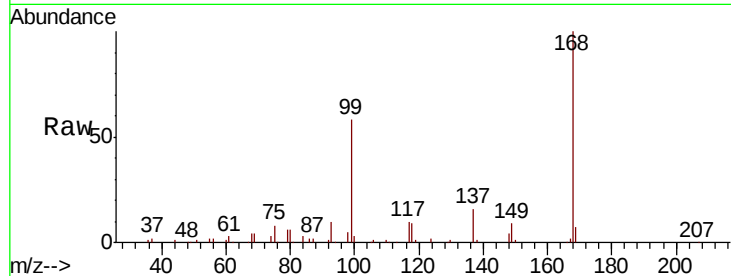
TP-37-36-COMP

Tot Ion:168 Resp: 154034

Ion Ratio Lower Upper

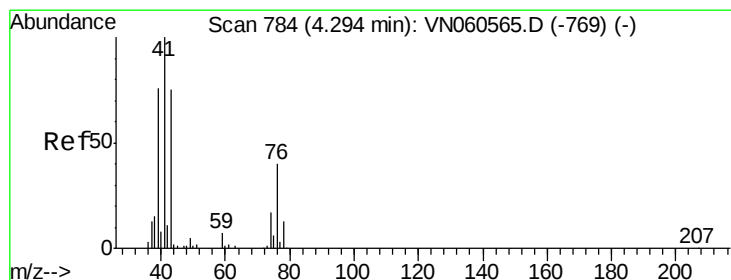
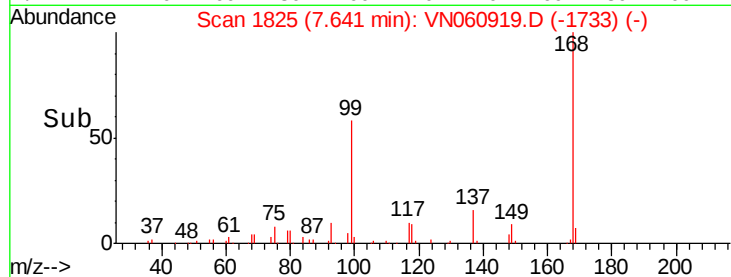
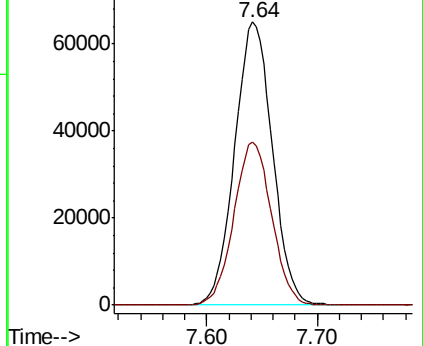
168 100

99 57.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#14

Allyl chloride

Concen: 0.708 ug/l

RT: 4.01 min Scan# 696

Delta R.T. -0.28 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

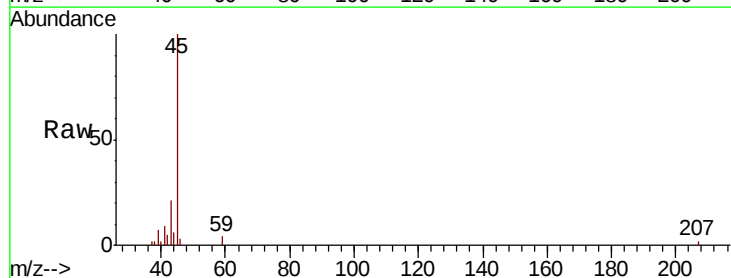
Tgt Ion: 41 Resp: 2076

Ion Ratio Lower Upper

41 100

39 88.2 57.8 86.8#

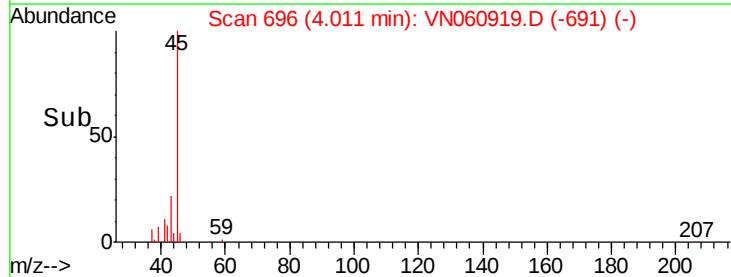
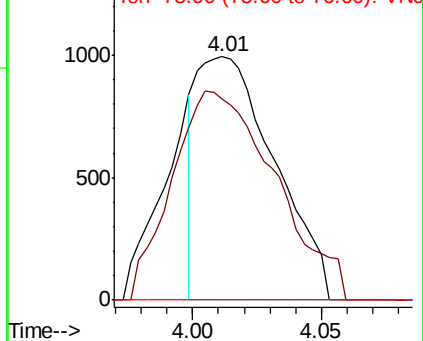
76 0.0 28.6 43.0#

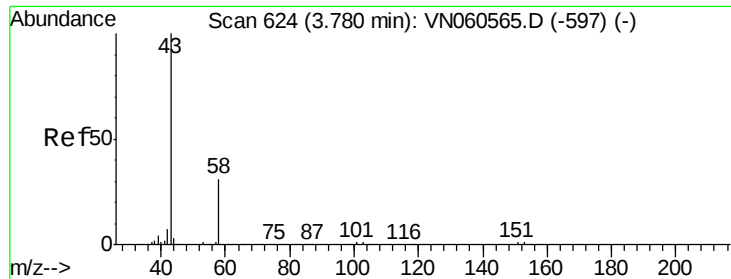


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN





#16

Acetone

Concen: 5.224 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampled :

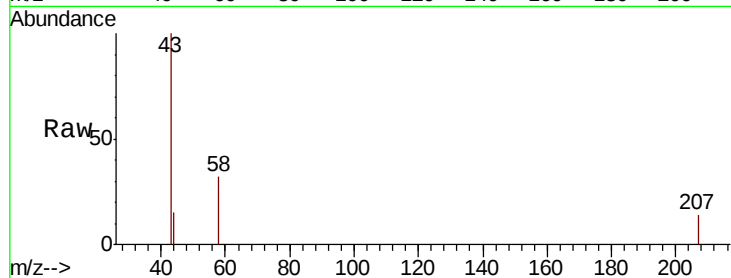
TP-37-36-COMP

Tot Ion: 43 Resp: 3913

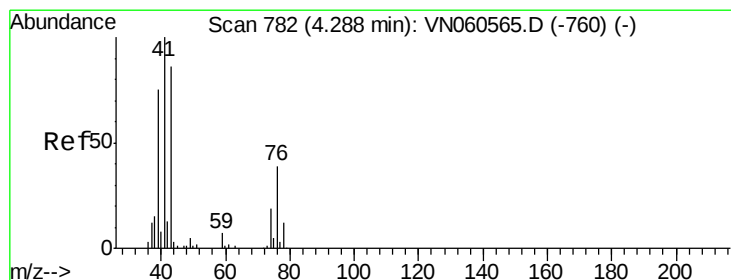
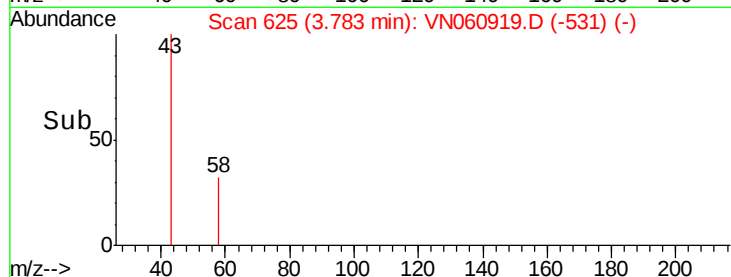
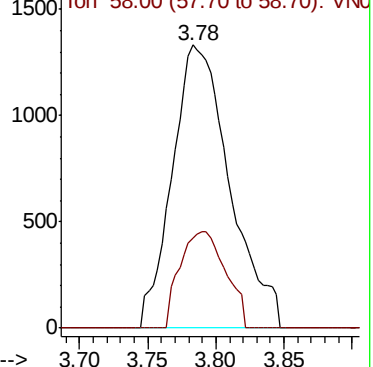
Ion Ratio Lower Upper

43 100

58 31.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060919.D (-531) (-)



#18

Methyl Acetate

Concen: 0.610 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060919.D

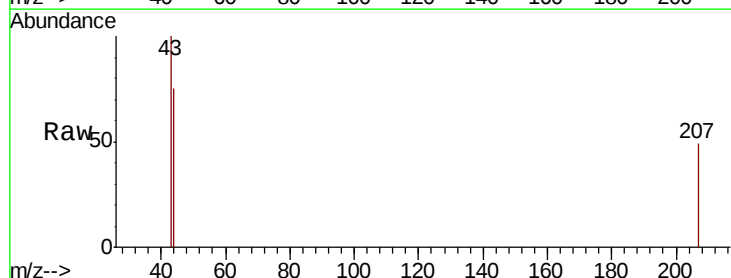
Acq: 13 Apr 2020 23:36

Tgt Ion: 43 Resp: 1285

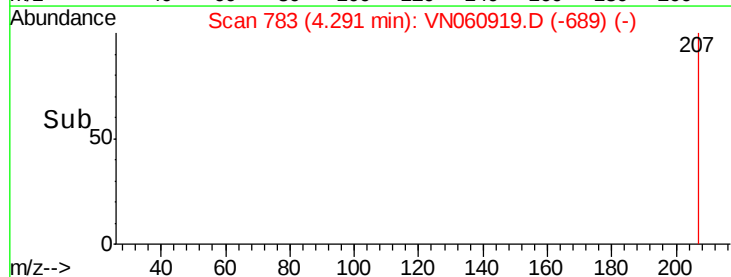
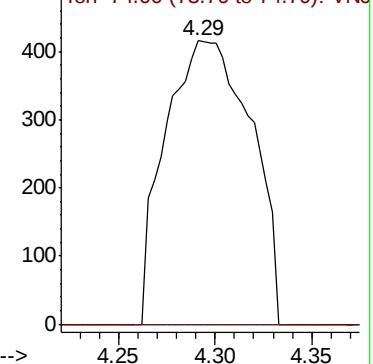
Ion Ratio Lower Upper

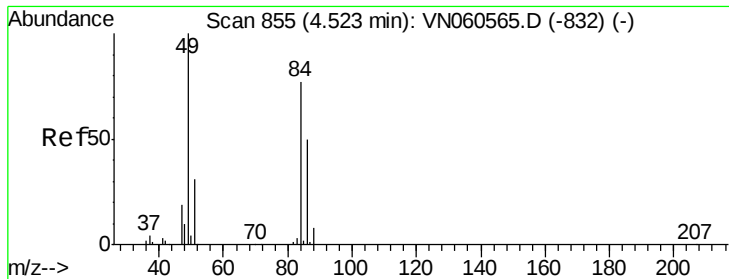
43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060919.D (-689) (-)

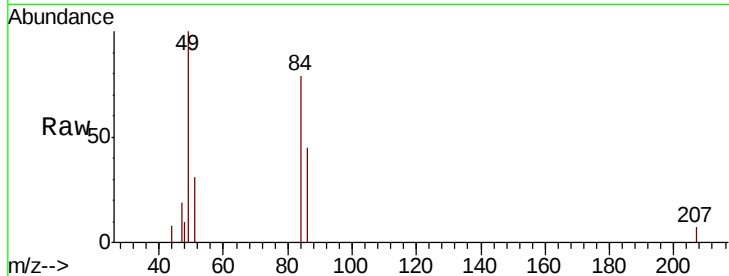




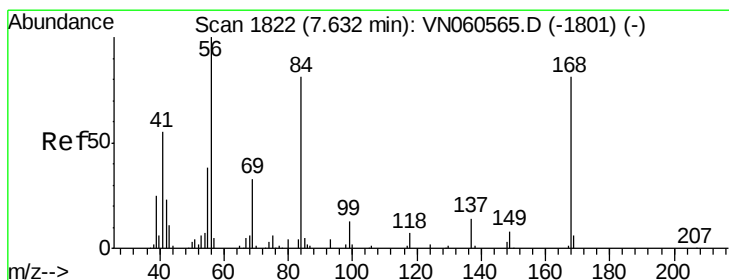
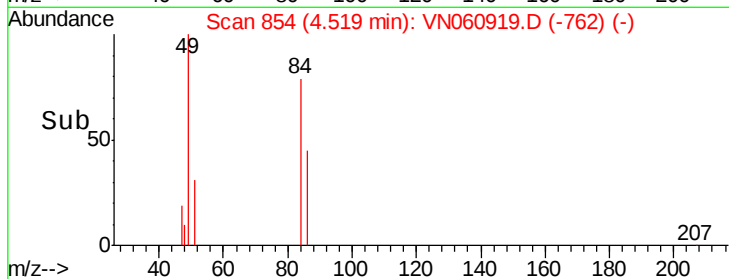
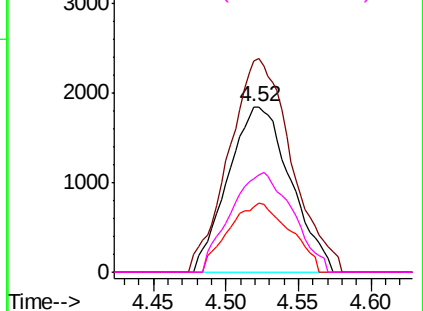
#20
Methvlene Chloride
Concen: 3.001 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060919.D
Acq: 13 Apr 2020 23:36

Instrument :
MSVOA_N
ClientSampleId :
TP-37-36-COMP

Tot Ion:	84	Resp:	5529
Ion	Ratio	Lower	Upper
84	100		
49	127.3	103.3	154.9
51	39.4	31.6	47.4
86	56.6	52.0	78.0

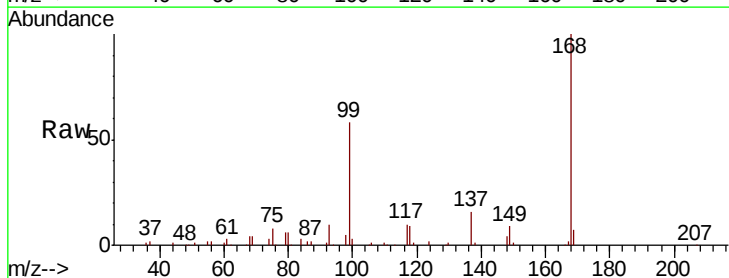


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

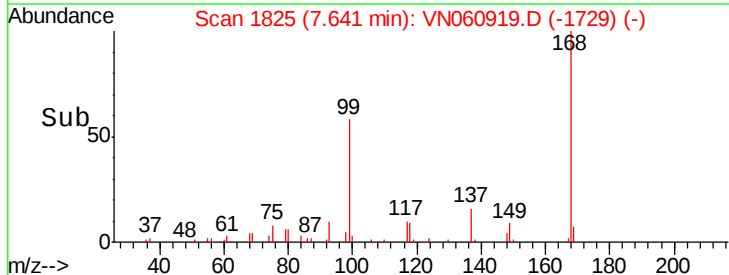
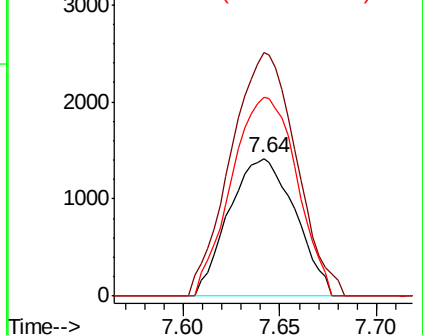


#31
Cyclohexane
Concen: 0.990 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060919.D
Acq: 13 Apr 2020 23:36

Tgt Ion:	56	Resp:	3372
Ion	Ratio	Lower	Upper
56	100		
69	176.8	26.6	40.0#
84	144.4	64.3	96.5#



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

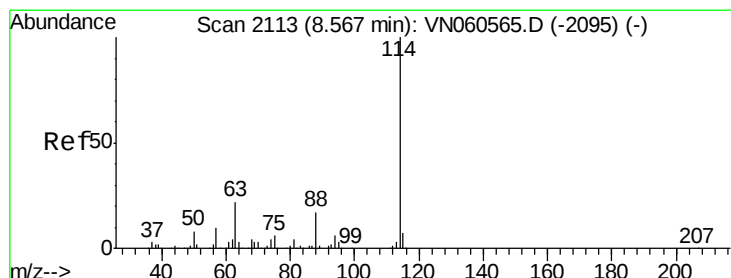
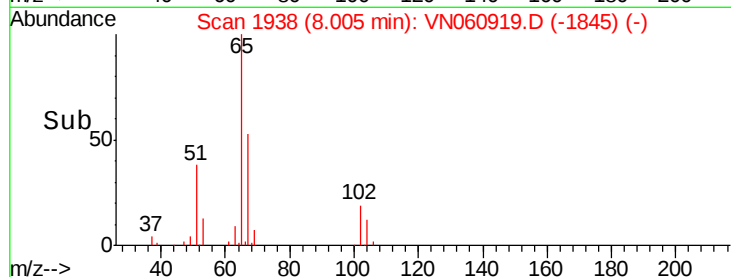
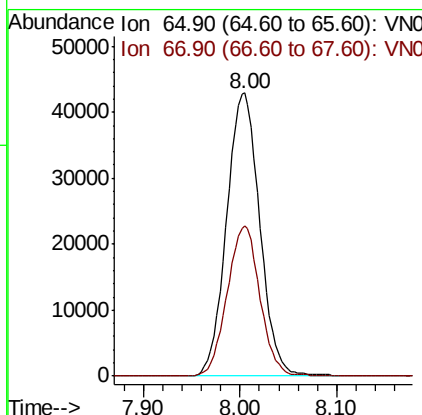
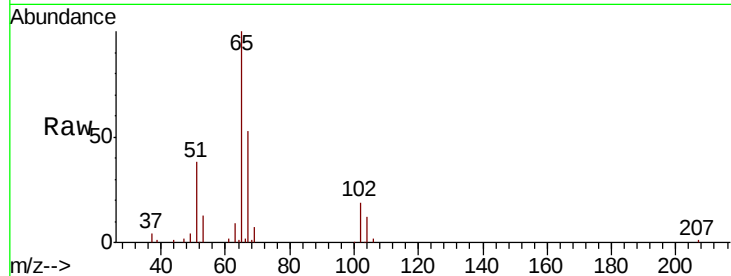




#33
 1,2-Dichloroethane-d4
 Concen: 48.292 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060919.D
 Acq: 13 Apr 2020 23:36

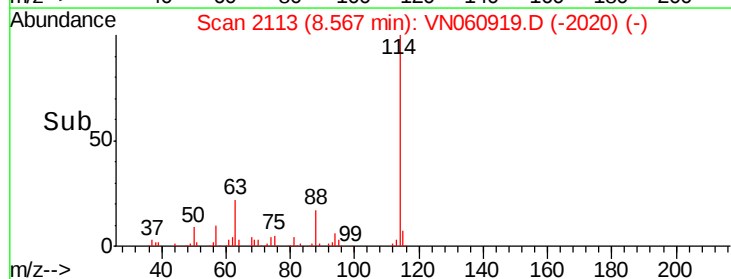
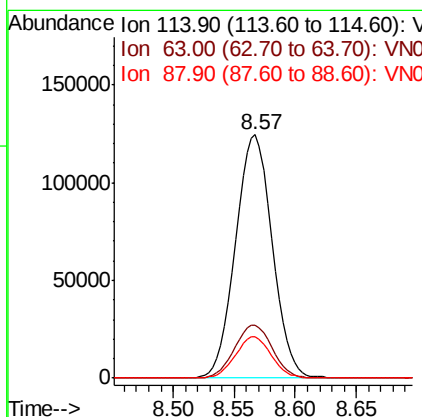
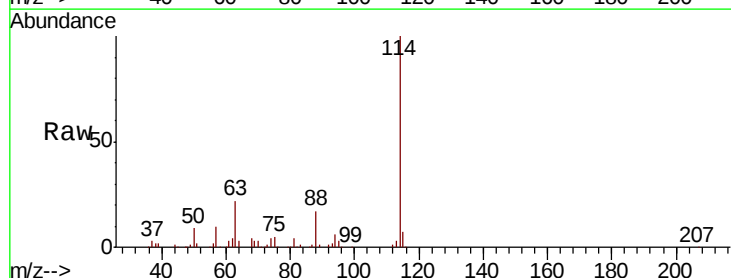
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-37-36-COMP

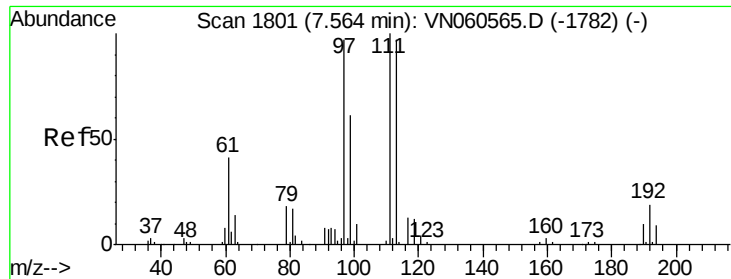
Tot Ion: 65 Resp: 102116
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060919.D
 Acq: 13 Apr 2020 23:36

Tgt Ion: 114 Resp: 259890
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.8
 88 16.8 0.0 33.0

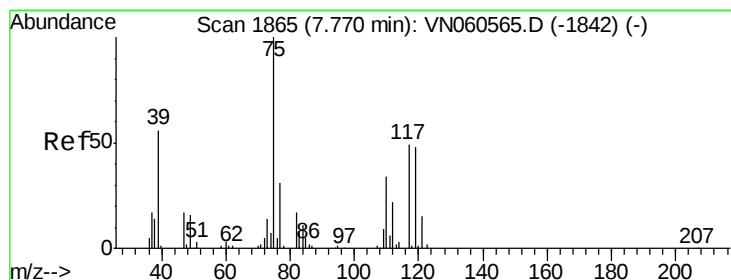
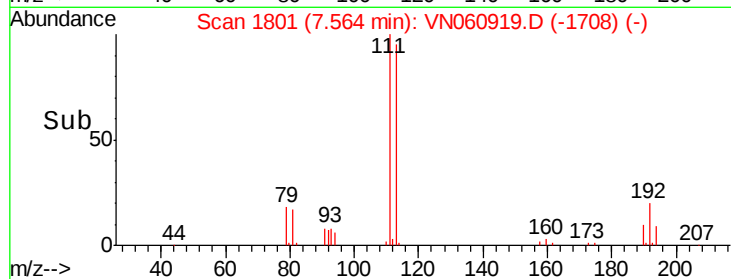
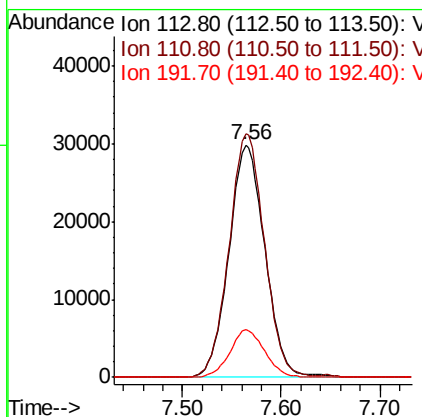
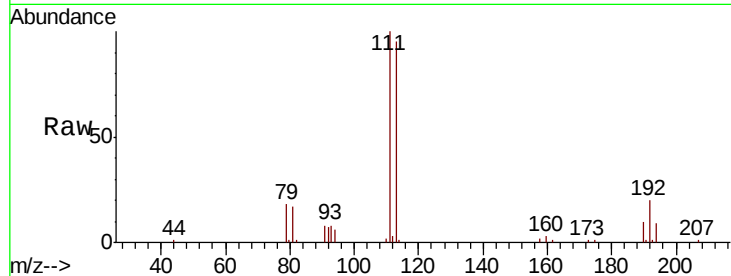




#35
 Dibromofluoromethane
 Concen: 48.173 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060919.D
 Acq: 13 Apr 2020 23:36

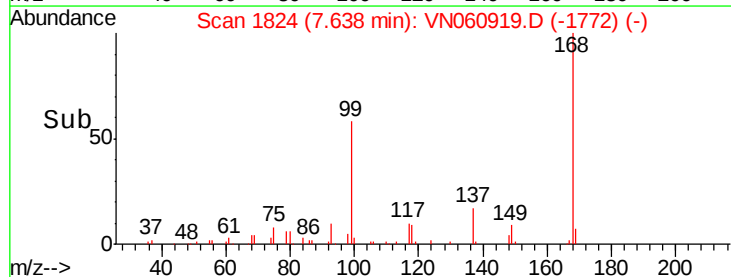
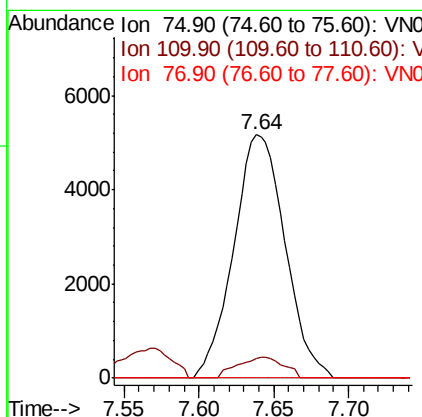
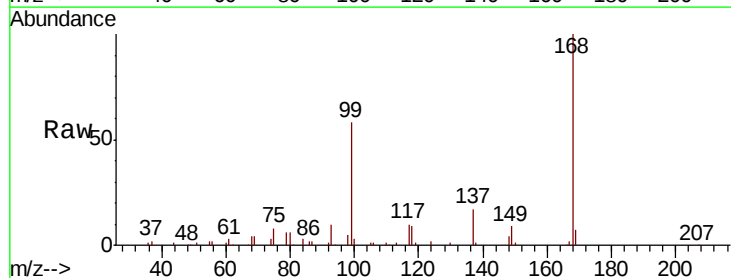
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-37-36-COMP

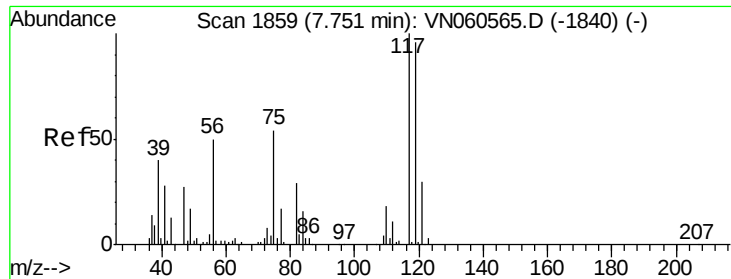
Tot Ion:113 Resp: 75703
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.9 124.3
 192 19.7 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.904 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060919.D
 Acq: 13 Apr 2020 23:36

Tgt Ion: 75 Resp: 12340
 Ion Ratio Lower Upper
 75 100
 110 7.7 16.9 50.6#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.627 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

TP-37-36-COMP

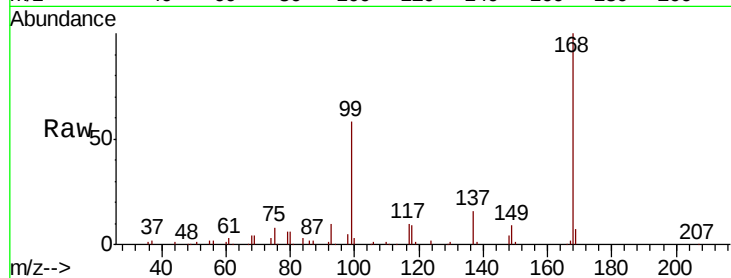
Tot Ion:117 Resp: 14947

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

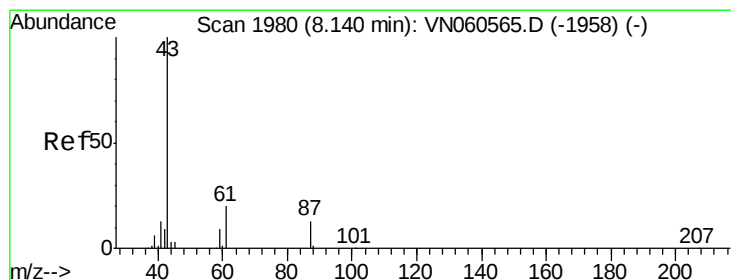
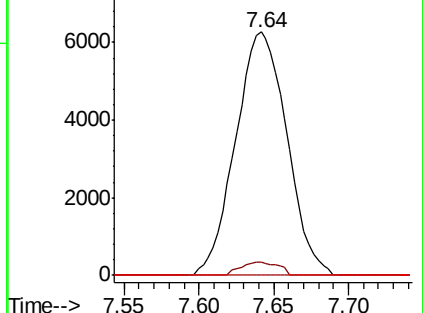
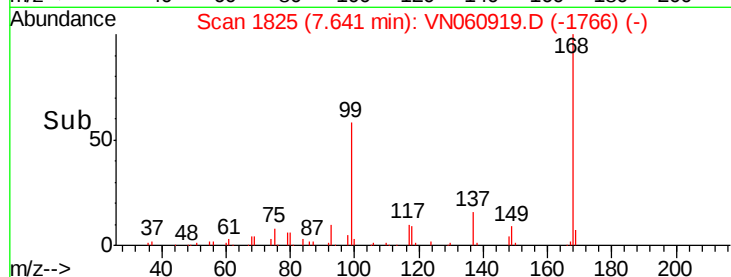
121 0.0 23.7 35.5#



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: 10.032 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

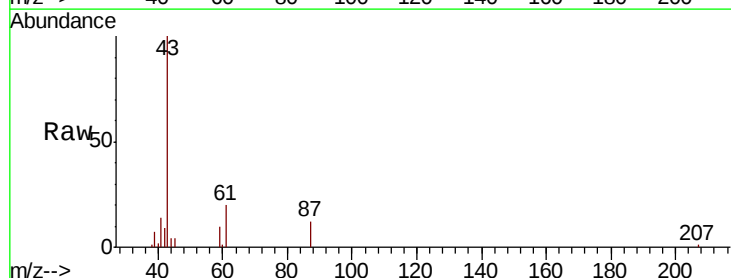
Tgt Ion: 43 Resp: 44987

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

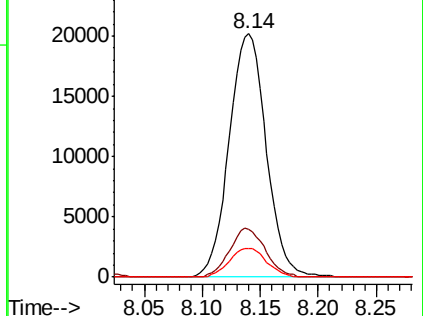
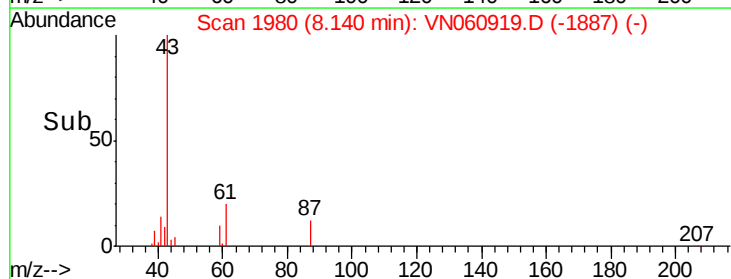
87 11.7 9.8 14.8

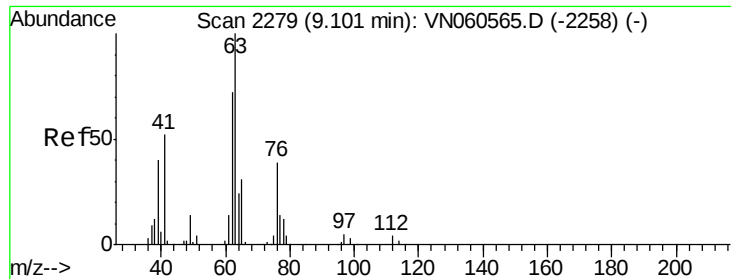


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.394 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

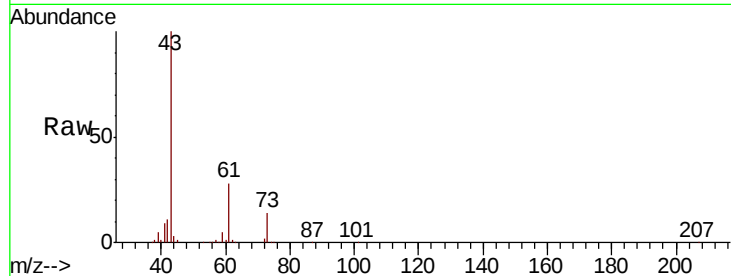
TP-37-36-COMP

Tot Ion: 63 Resp: 790

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

600

500

400

300

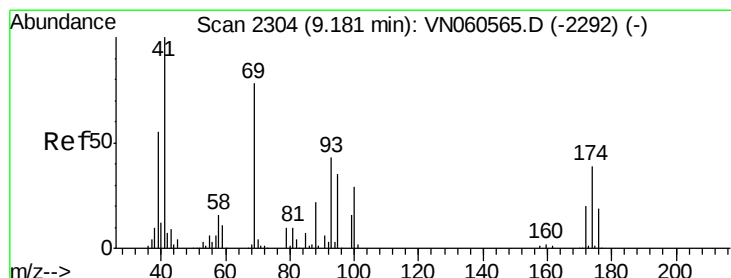
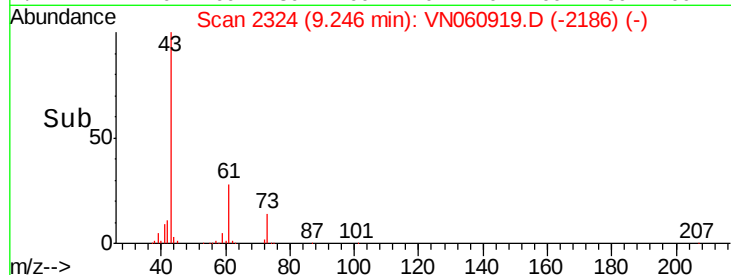
200

100

0

9.22 9.24 9.26 9.28

Time-->



#48

Methyl methacrylate

Concen: 1.095 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

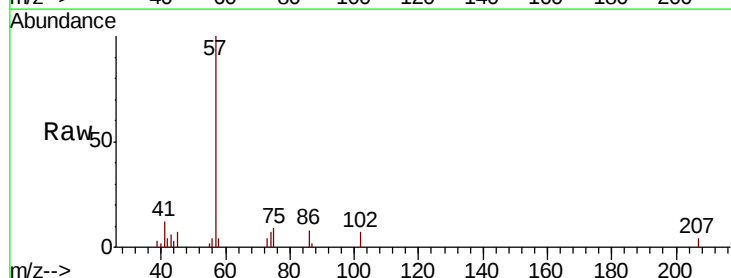
Tgt Ion: 41 Resp: 2186

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

20000

15000

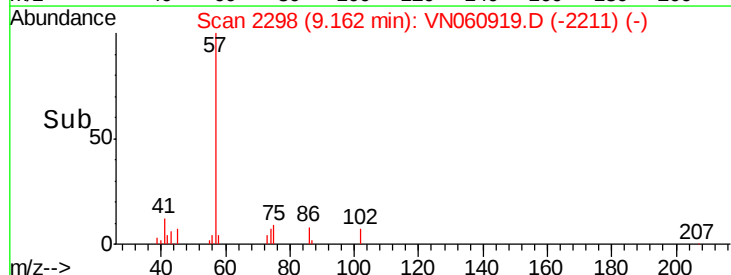
10000

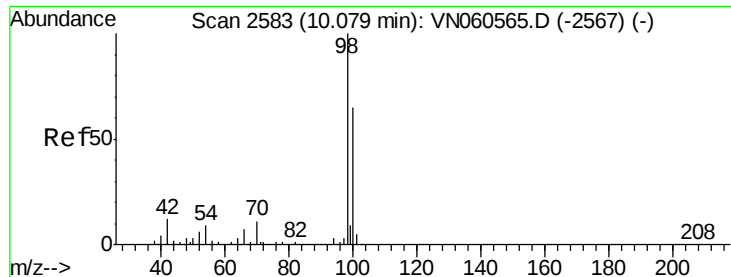
5000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 50.201 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

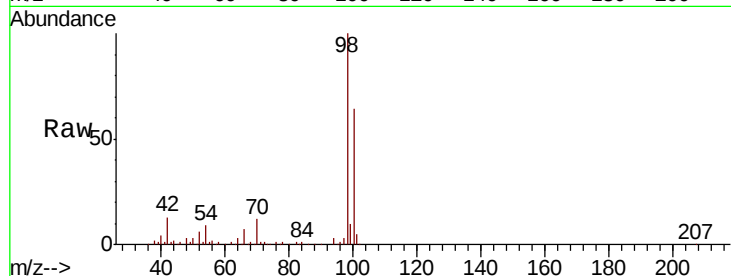
TP-37-36-COMP

Tot Ion: 98 Resp: 322232

Ion Ratio Lower Upper

98 100

100 64.8 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

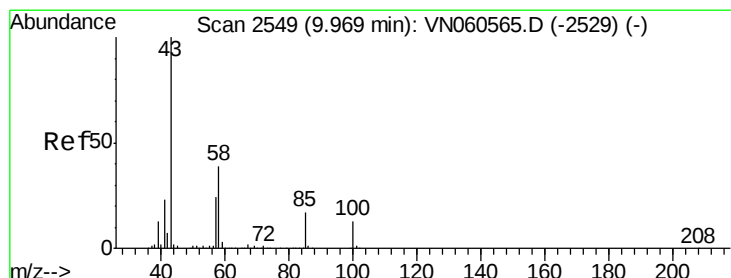
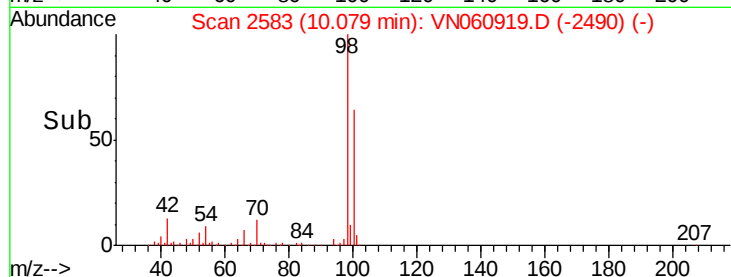
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.008 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060919.D

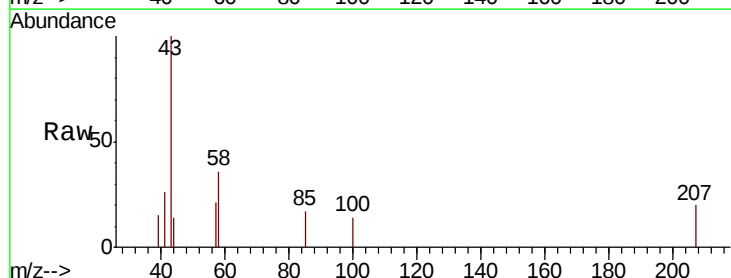
Acq: 13 Apr 2020 23:36

Tgt Ion: 43 Resp: 2572

Ion Ratio Lower Upper

43 100

58 39.0 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

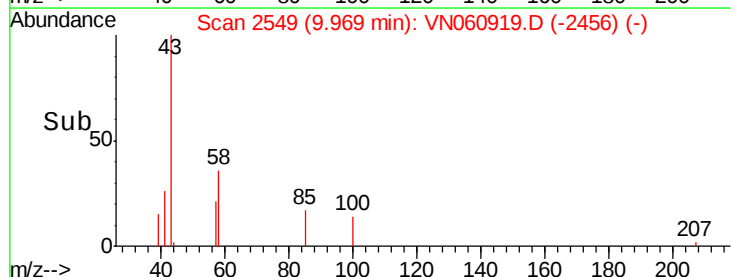
3000

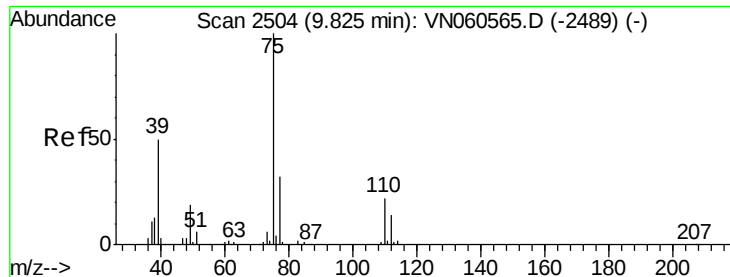
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.525 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

TP-37-36-COMP

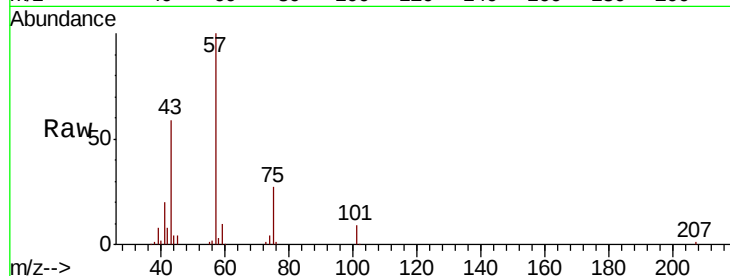
Tot Ion: 75 Resp: 17532

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

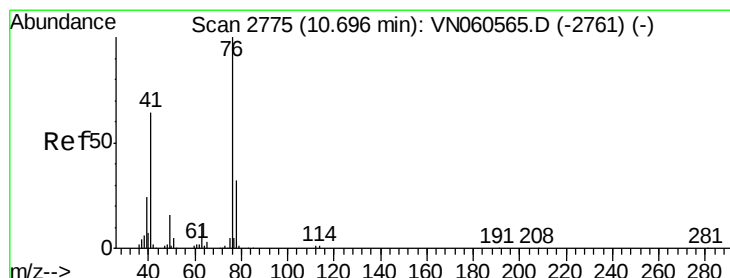
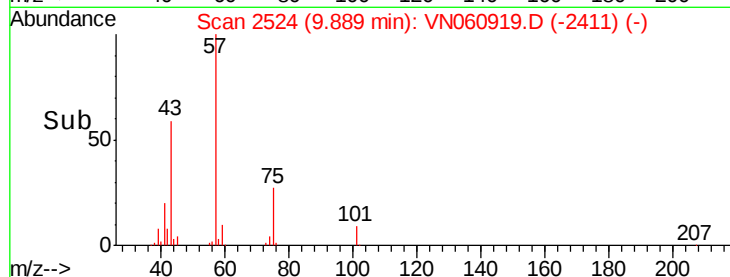
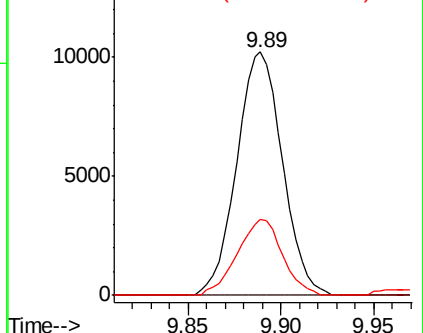
39 31.2 40.2 60.4#



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: 0.954 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060919.D

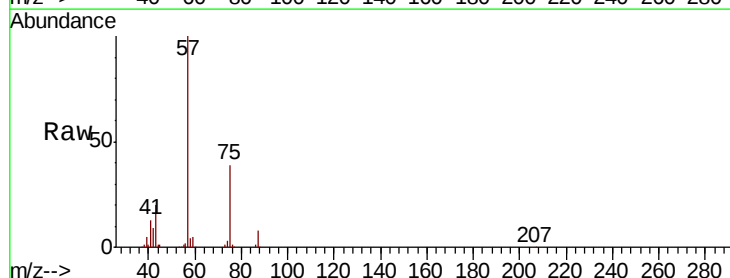
Acq: 13 Apr 2020 23:36

Tgt Ion: 76 Resp: 2922

Ion Ratio Lower Upper

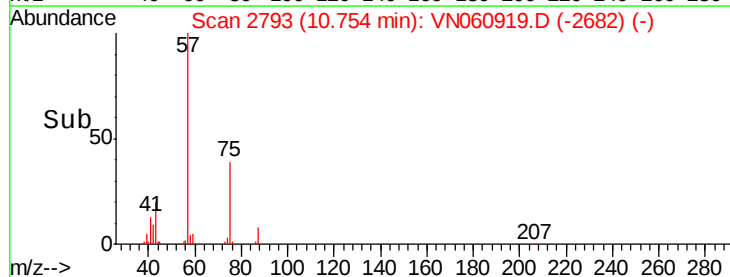
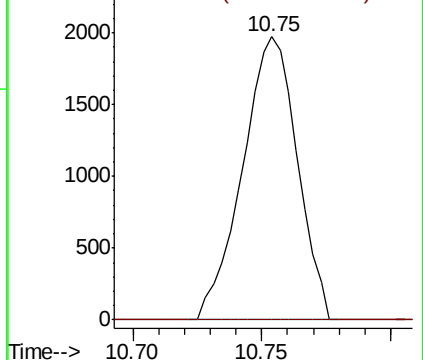
76 100

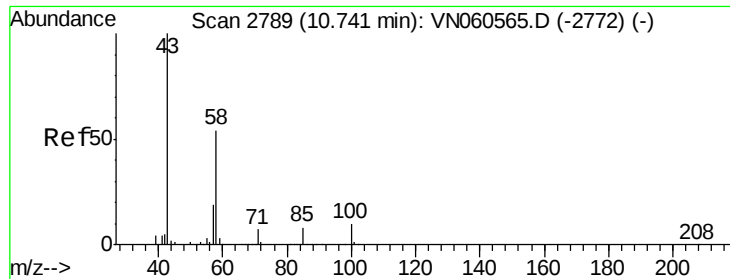
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

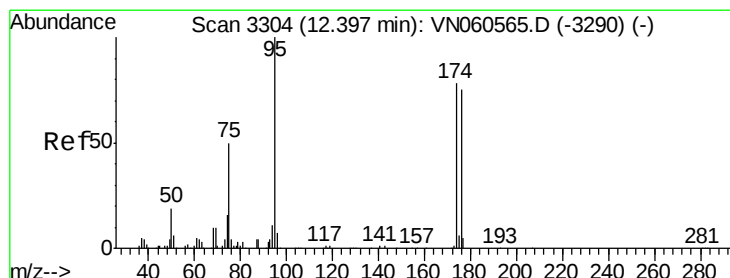
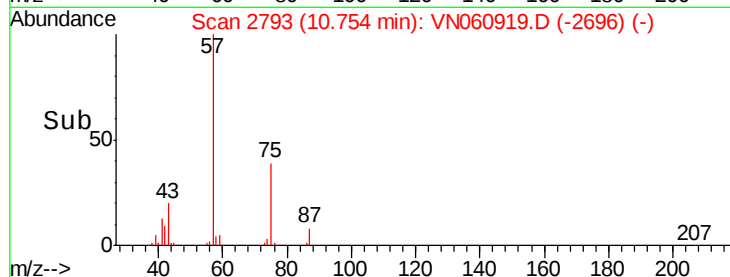
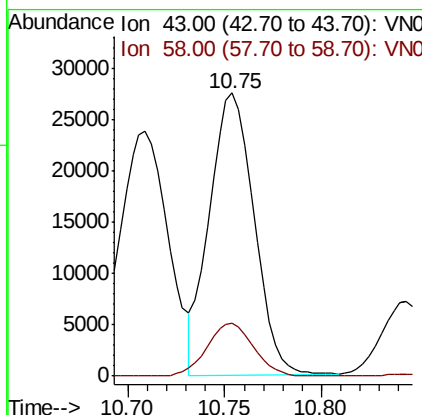
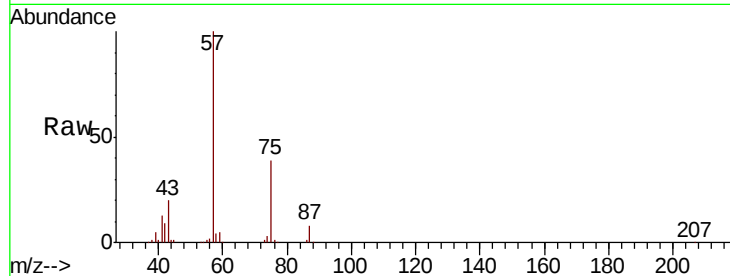




#59
2-Hexanone
Concen: 24.055 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060919.D
Acq: 13 Apr 2020 23:36

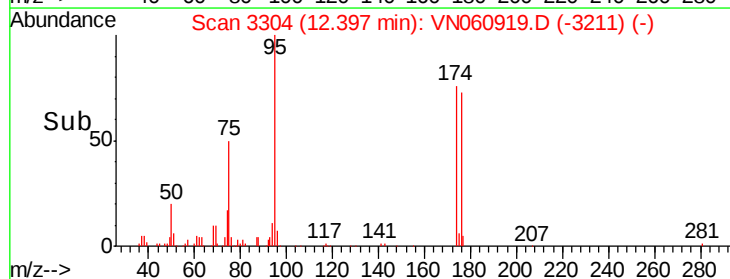
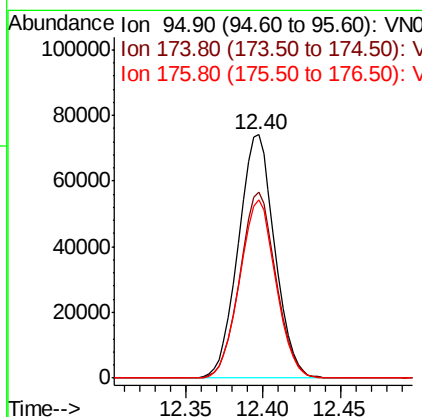
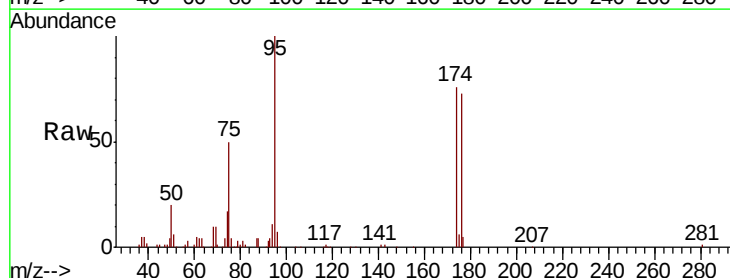
Instrument :
MSVOA_N
ClientSampleId :
TP-37-36-COMP

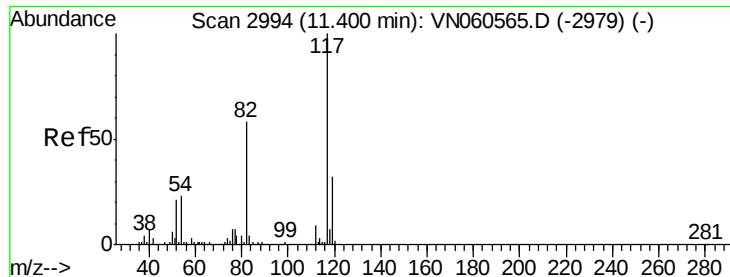
Tot Ion: 43 Resp: 44218
Ion Ratio Lower Upper
43 100
58 19.5 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.581 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060919.D
Acq: 13 Apr 2020 23:36

Tgt Ion: 95 Resp: 121341
Ion Ratio Lower Upper
95 100
174 75.9 0.0 157.6
176 72.8 0.0 150.6

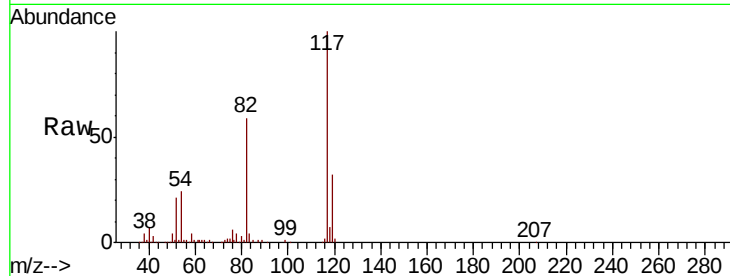




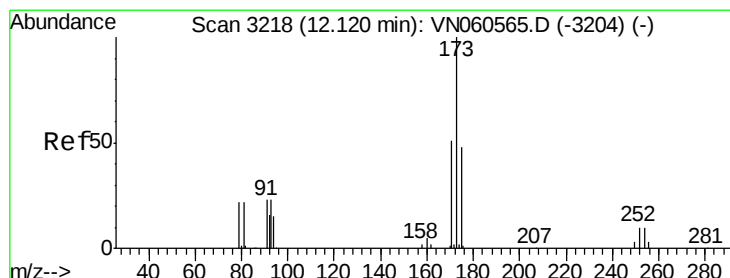
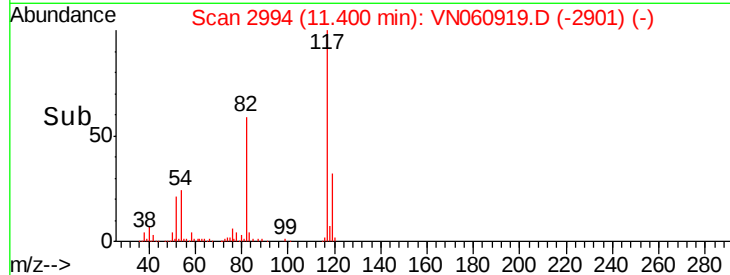
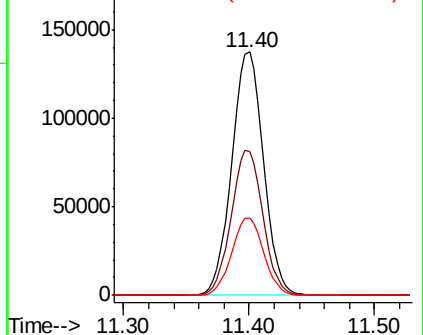
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060919.D
Acq: 13 Apr 2020 23:36

Instrument :
MSVOA_N
ClientSampleId :
TP-37-36-COMP

Tot Ion:117 Resp: 242109
Ion Ratio Lower Upper
117 100
82 59.0 46.7 70.1
119 31.8 25.5 38.3

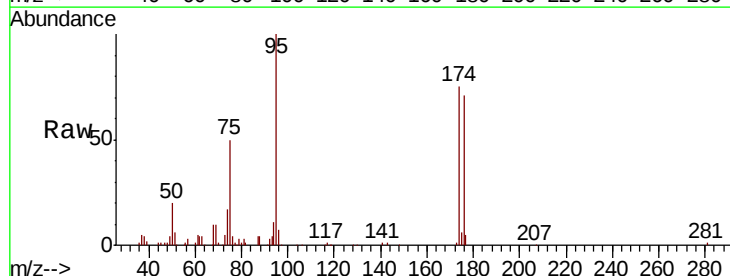


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

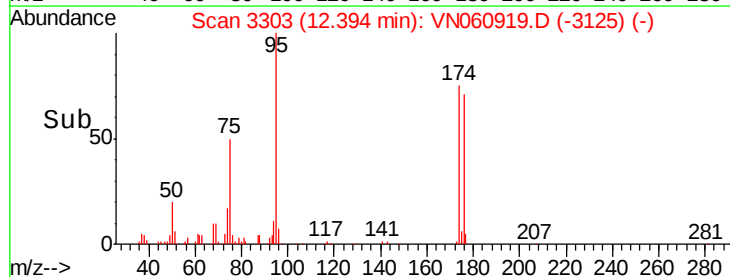
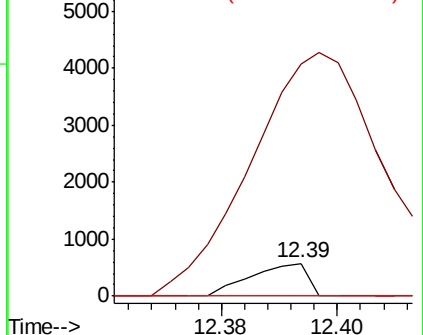


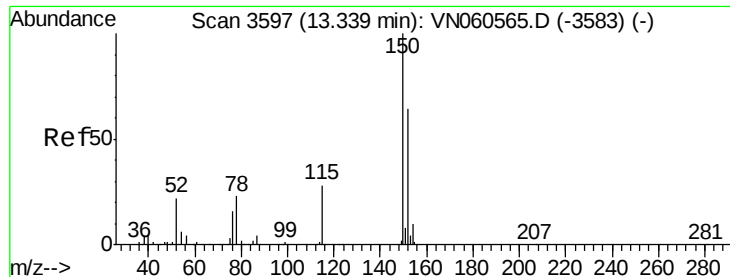
#71
Bromoform
Concen: 1.941 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060919.D
Acq: 13 Apr 2020 23:36

Tgt Ion:173 Resp: 390
Ion Ratio Lower Upper
173 100
175 1488.7 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: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampled :

TP-37-36-COMP

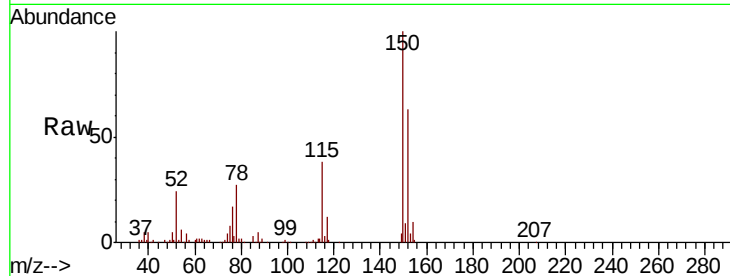
Tot Ion:152 Resp: 109172

Ion Ratio Lower Upper

152 100

115 60.5 30.2 90.6

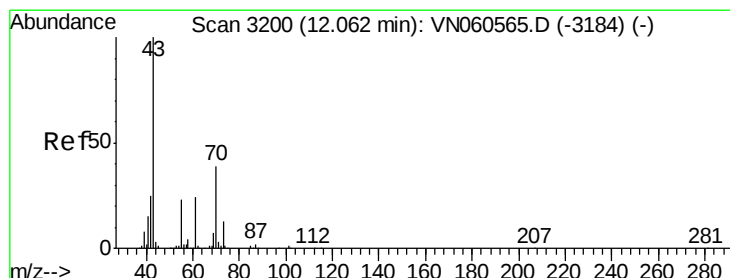
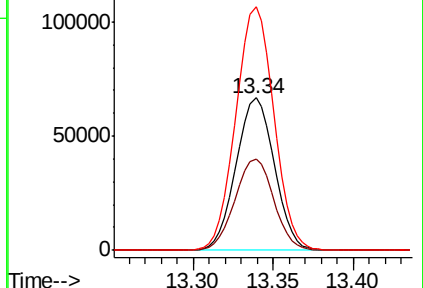
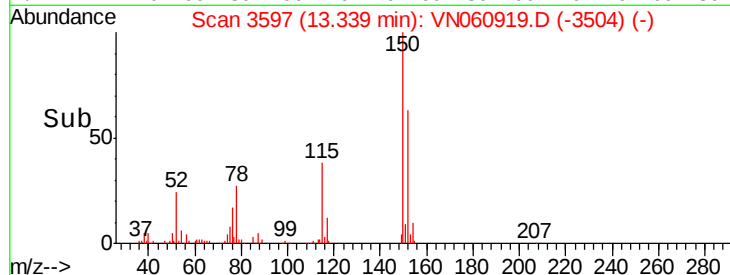
150 158.7 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.628 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

Tgt Ion: 43 Resp: 2376

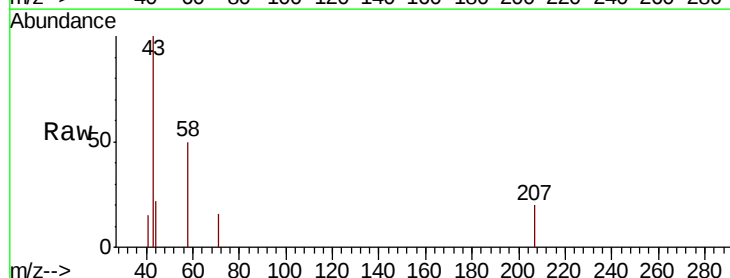
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

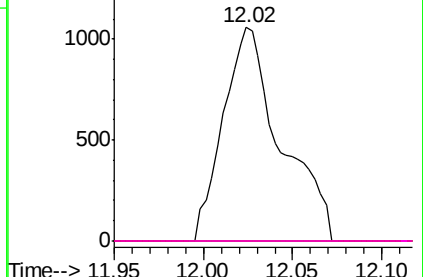
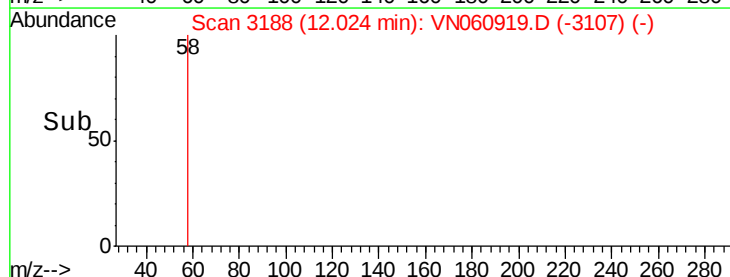


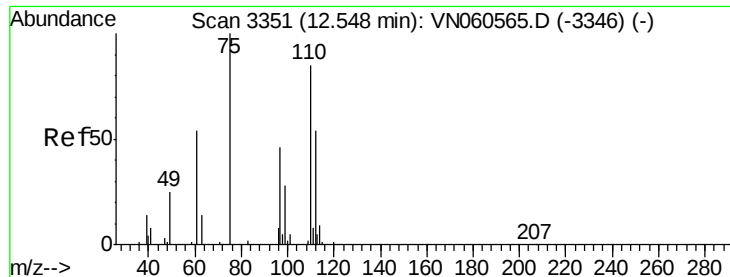
Abundance Ion 43.00 (42.70 to 43.70): V

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: 25.845 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

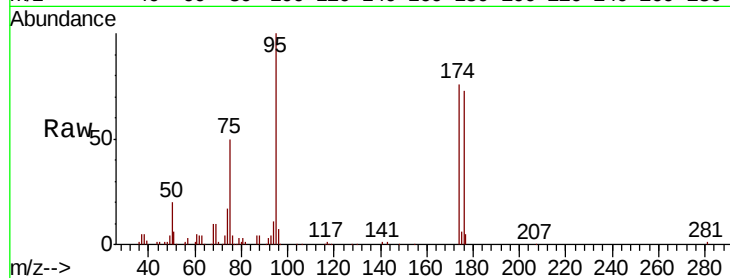
TP-37-36-COMP

Tot Ion: 75 Resp: 60884

Ion Ratio Lower Upper

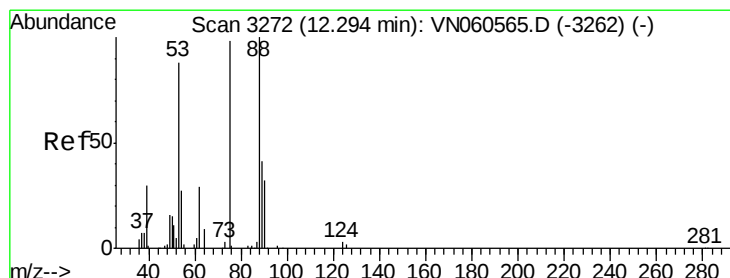
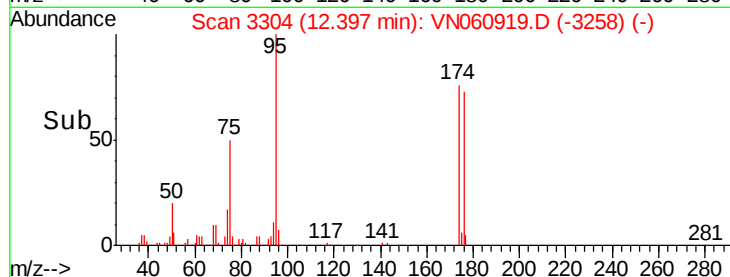
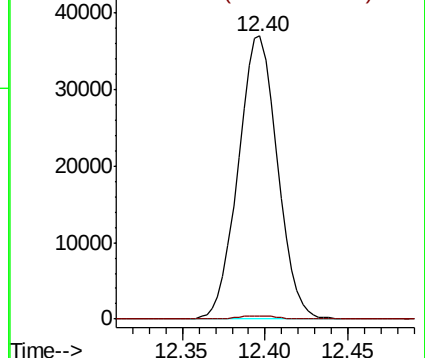
75 100

77 1.0 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: 66.378 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060919.D

Acq: 13 Apr 2020 23:36

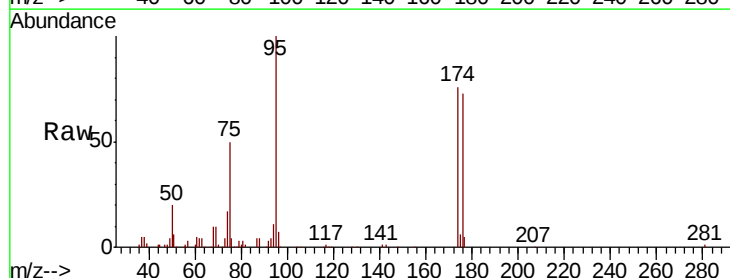
Tgt Ion: 75 Resp: 60884

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

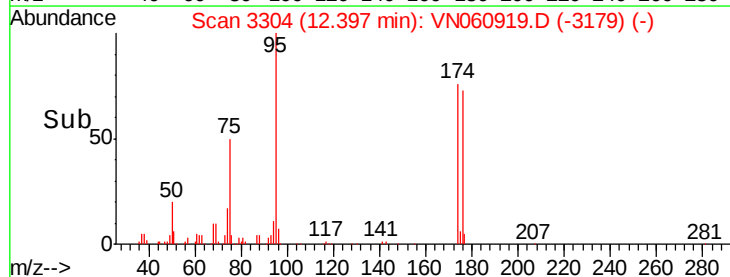
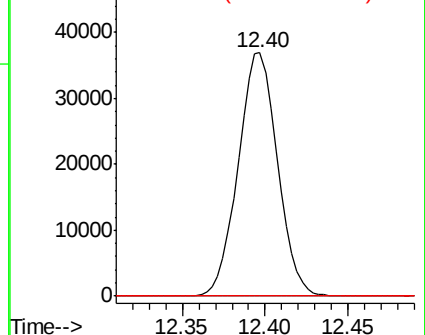
89 0.0 34.8 52.2#

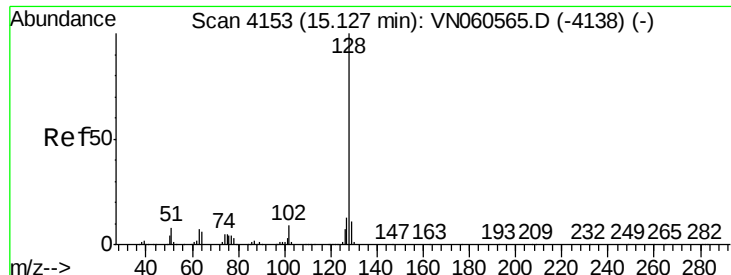


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95
 Naphthalene
 Concen: 0.969 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN060919.D
 Acq: 13 Apr 2020 23:36

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-37-36-COMP

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.2	15.2
129	10.0	8.8	13.2

