

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031020\
 Data File : VN060430.D
 Acq On : 10 Mar 2020 20:18
 Operator : JC/MD
 Sample : L1852-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-S

Quant Time: Mar 11 06:44:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	327332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	311234	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145699	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	128867	50.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.12%	
35) Dibromofluoromethane	7.57	113	96799	63.71	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	127.42%	
50) Toluene-d8	10.08	98	408677	53.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.30%	
62) 4-Bromofluorobenzene	12.40	95	152455	52.30	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.60%	

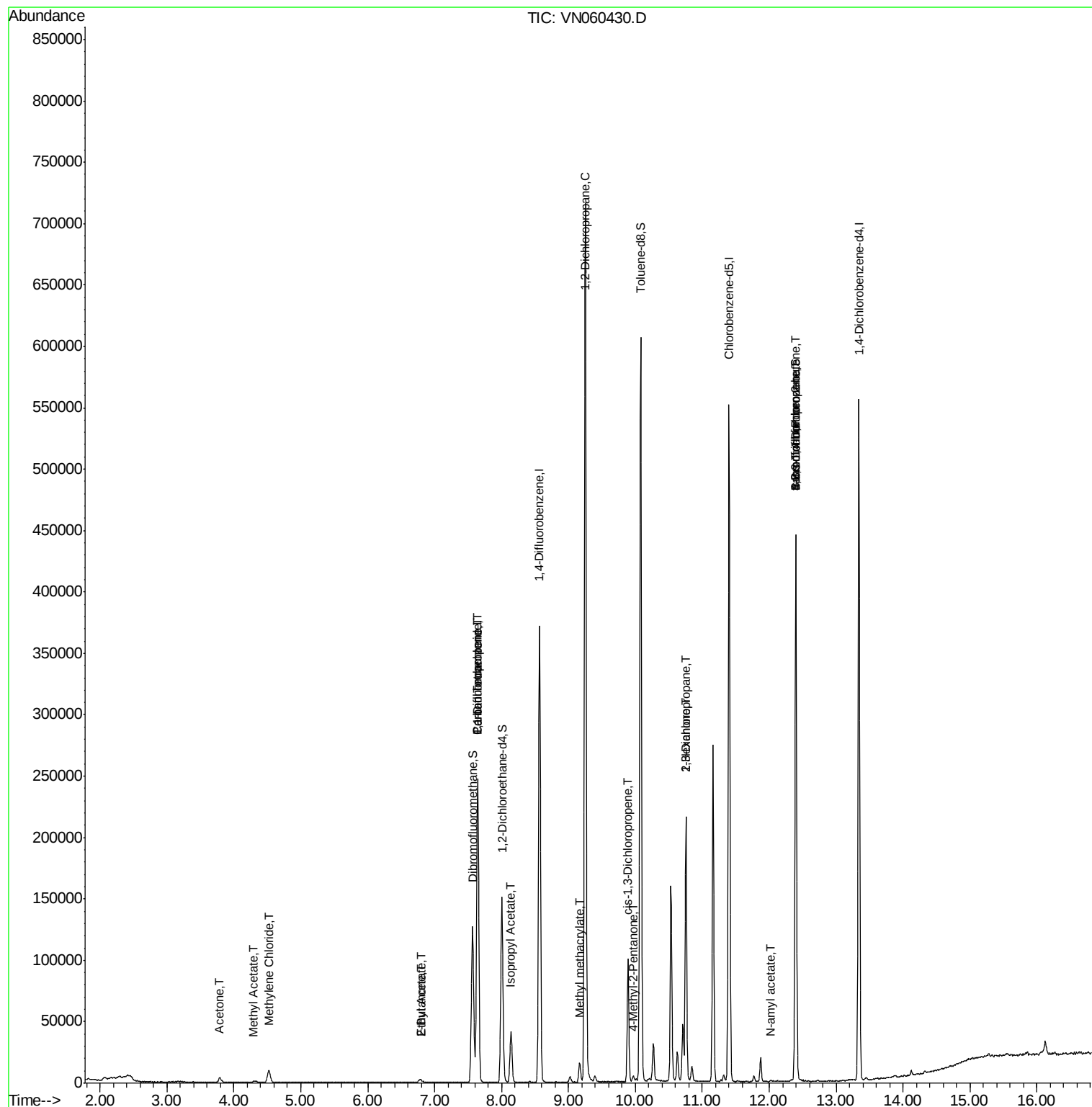
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7470	8.986	ug/l	98
17) Carbon Disulfide	4.02	76	332	Below Cal	#	75
18) Methyl Acetate	4.29	43	608	0.219	ug/l #	52
20) Methylene Chloride	4.52	84	7710	3.377	ug/l	95
25) 2-Butanone	6.81	43	660	0.492	ug/l #	49
31) Cyclohexane	7.64	56	4150	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15820	5.071	ug/l #	49
37) Ethyl Acetate	6.81	43	660	0.223	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19338	6.367	ug/l #	16
43) Isopropyl Acetate	8.14	43	49126	9.500	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	662	0.279	ug/l #	44
48) Methyl methacrylate	9.16	41	2468	1.047	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3647	1.244	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	17645	4.436	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2079	0.556	ug/l #	42
59) 2-Hexanone	10.75	43	32604	15.145	ug/l #	51
71) Bromoform	12.40	173	643	0.384	ug/l #	1
74) N-amyl acetate	12.02	43	1591	0.337	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	77362	24.201	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77362	66.806	ug/l #	8

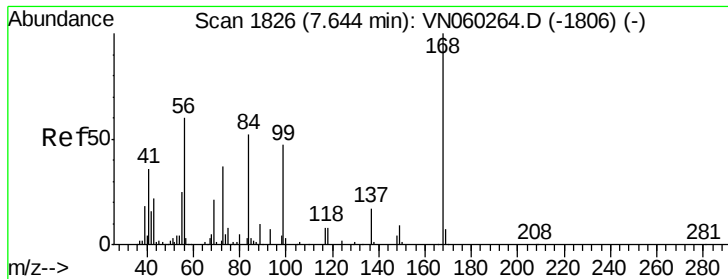
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

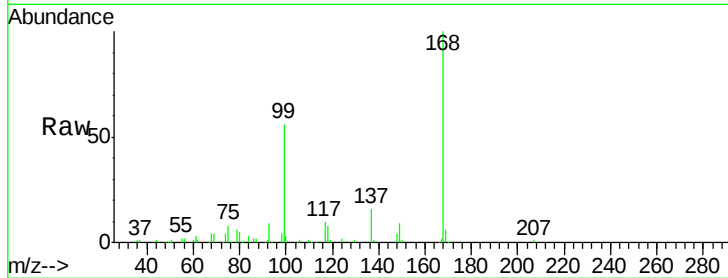
TP-3-S

Tgt Ion:168 Resp: 200645

Ion Ratio Lower Upper

168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

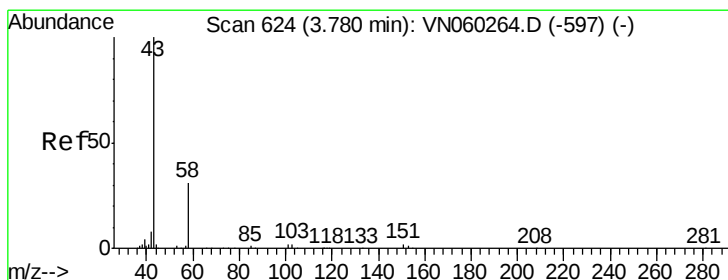
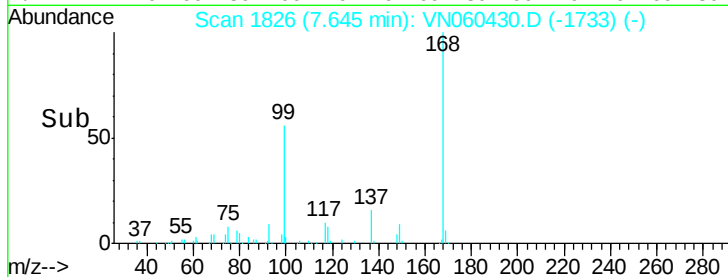
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.986 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060430.D

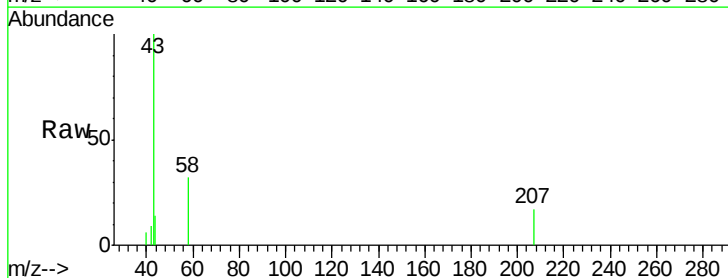
Acq: 10 Mar 2020 20:18

Tgt Ion: 43 Resp: 7470

Ion Ratio Lower Upper

43 100

58 31.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

3000

2500

2000

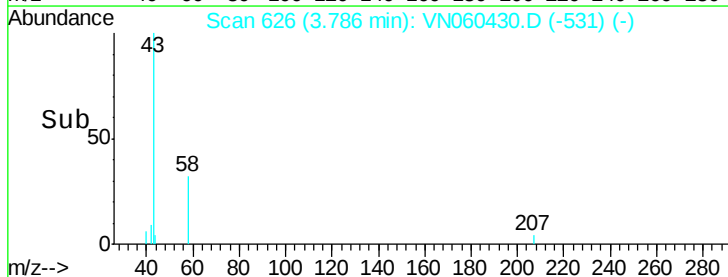
1500

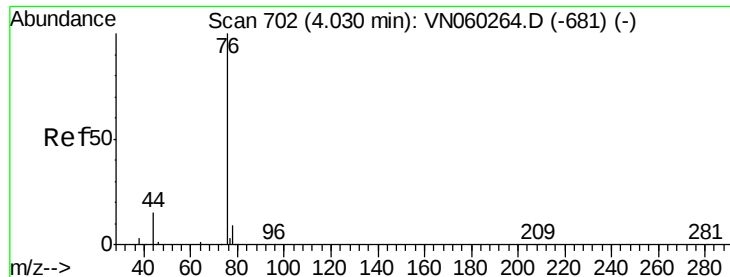
1000

500

0

Time--> 3.70 3.80 3.90





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

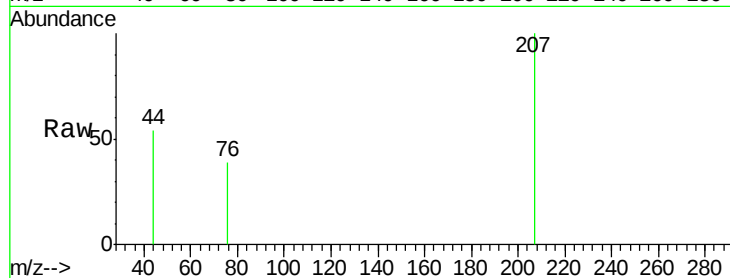
TP-3-S

Tgt Ion: 76 Resp: 332

Ion Ratio Lower Upper

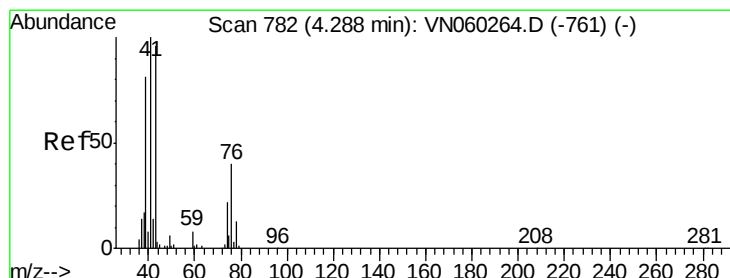
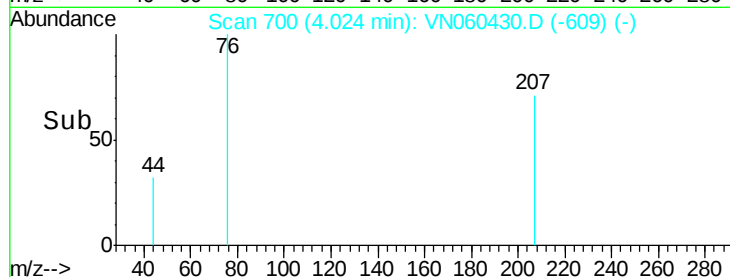
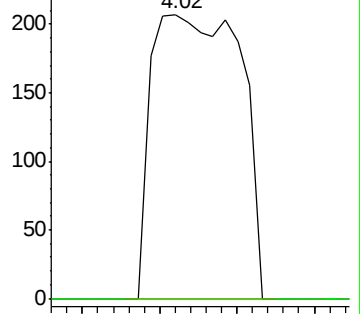
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.219 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.00 min

Lab File: VN060430.D

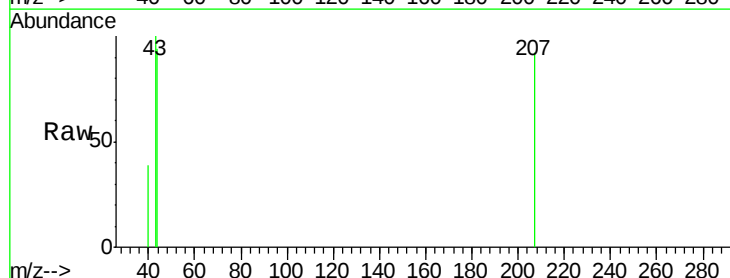
Acq: 10 Mar 2020 20:18

Tgt Ion: 43 Resp: 608

Ion Ratio Lower Upper

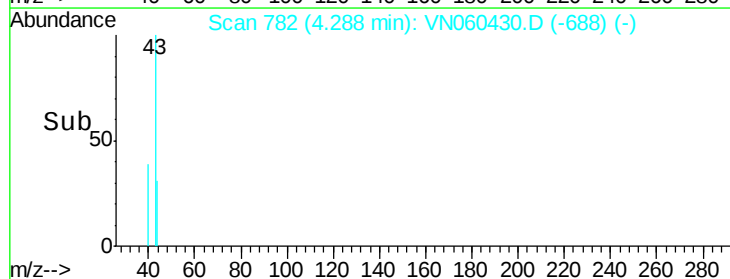
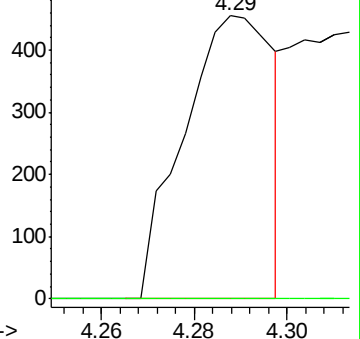
43 100

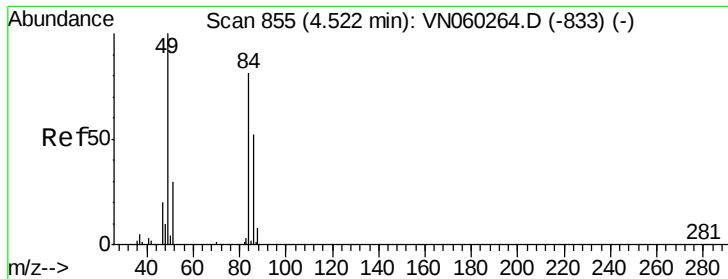
74 0.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

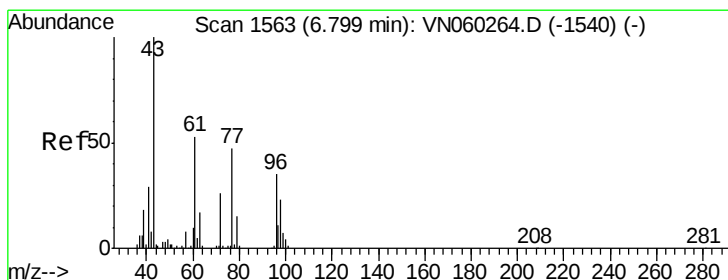
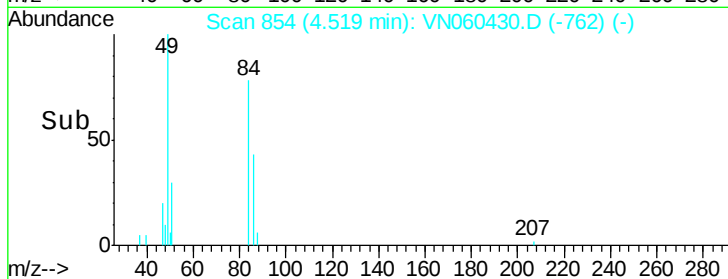
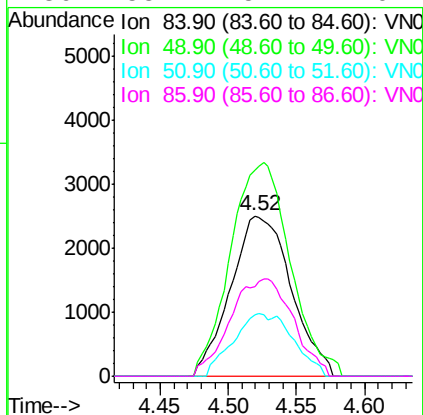
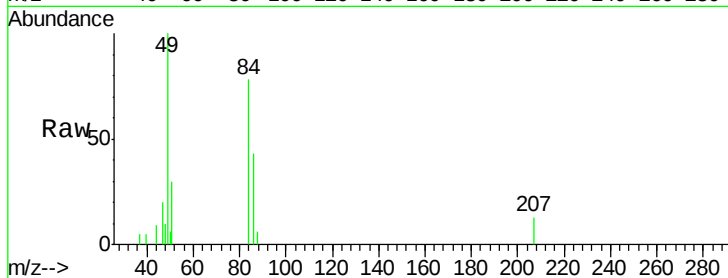




#20
Methylene Chloride
Concen: 3.377 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060430.D
Acq: 10 Mar 2020 20:18

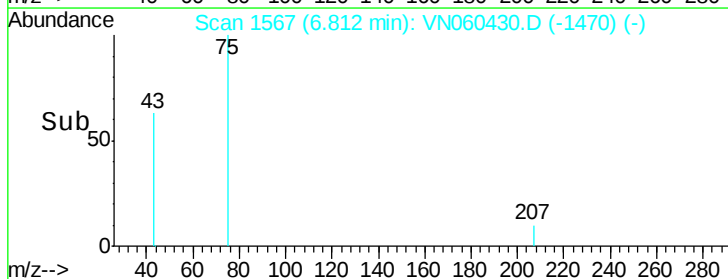
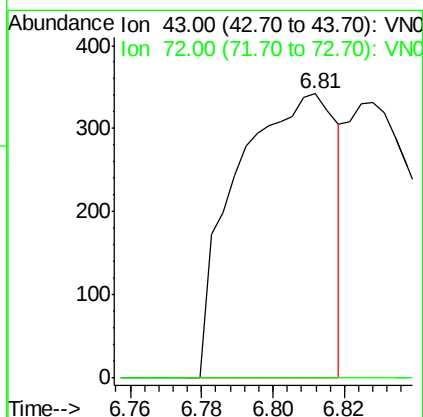
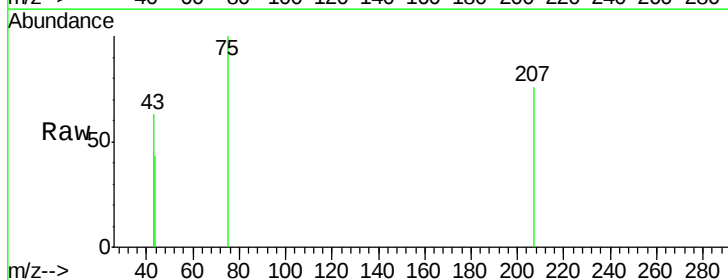
Instrument :
MSVOA_N
ClientSampled :
TP-3-S

Tgt Ion:	84	Resp:	7710
Ion	Ratio	Lower	Upper
84	100		
49	128.4	99.3	148.9
51	38.6	30.1	45.1
86	55.7	51.1	76.7



#25
2-Butanone
Concen: 0.492 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN060430.D
Acq: 10 Mar 2020 20:18

Tgt Ion:	43	Resp:	660
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#

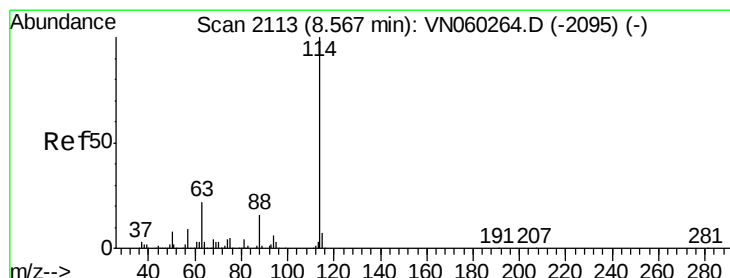
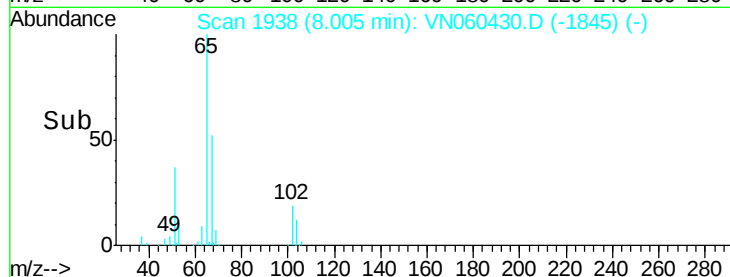
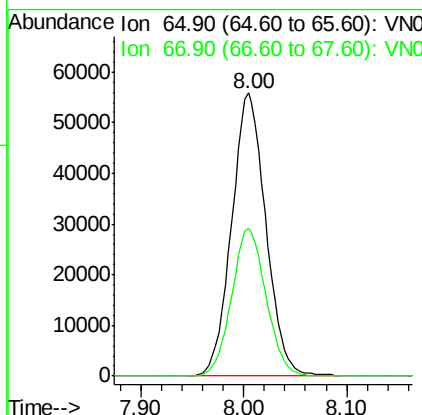
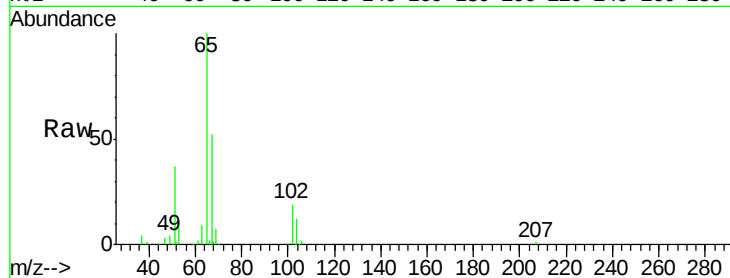




#33
 1,2-Dichloroethane-d4
 Concen: 50.059 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060430.D
 Acq: 10 Mar 2020 20:18

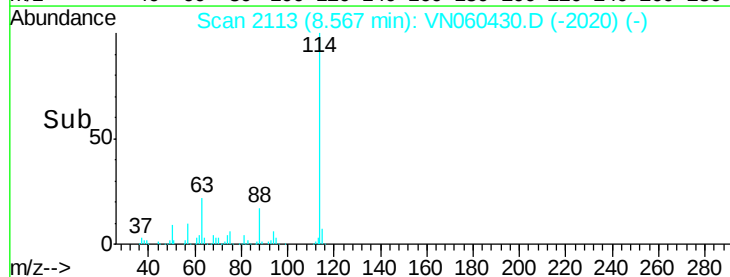
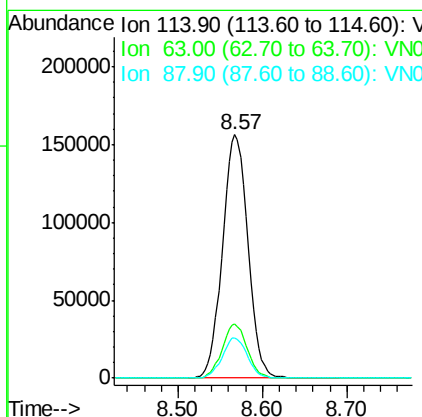
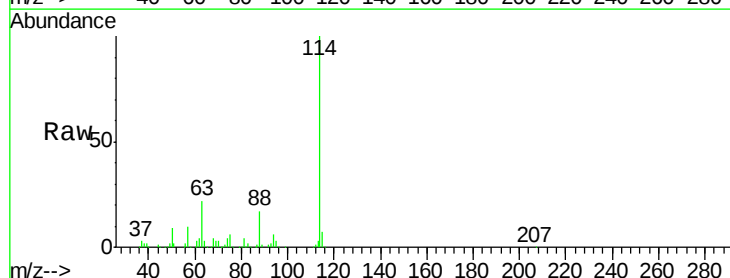
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-S

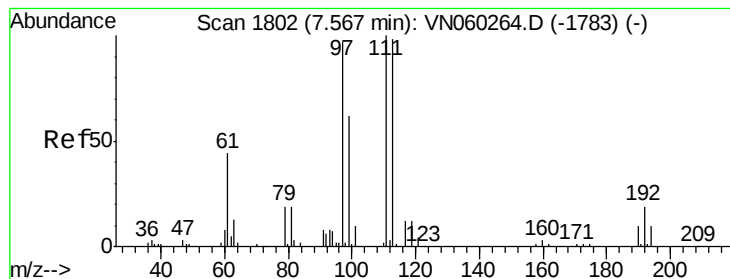
Tgt Ion: 65 Resp: 128867
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060430.D
 Acq: 10 Mar 2020 20:18

Tgt Ion: 114 Resp: 327332
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.2
 88 16.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 63.710 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampled :

TP-3-S

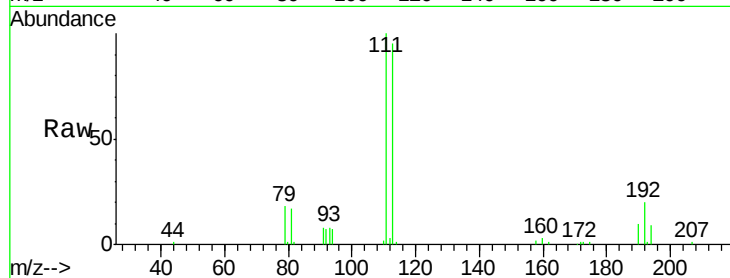
Tgt Ion:113 Resp: 96799

Ion Ratio Lower Upper

113 100

111 103.2 82.4 123.6

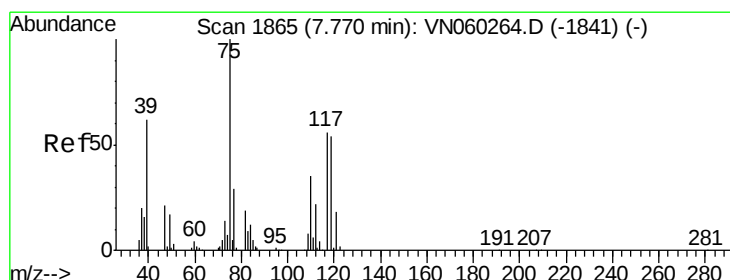
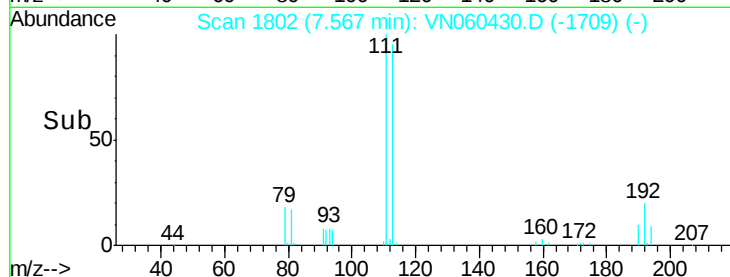
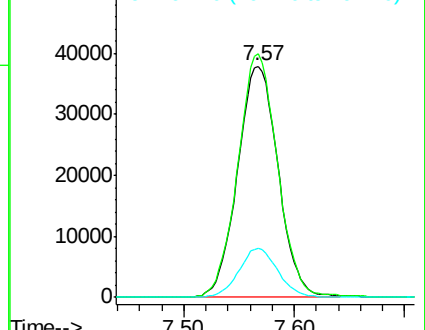
192 20.3 16.2 24.2



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: 5.071 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

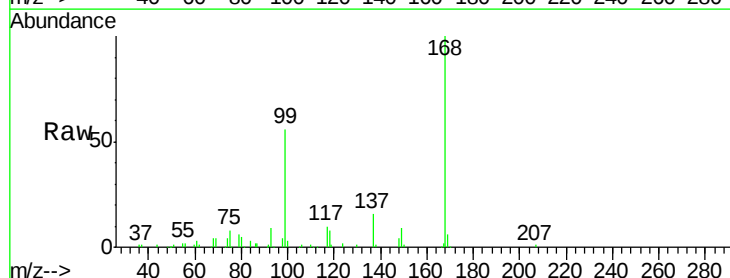
Tgt Ion: 75 Resp: 15820

Ion Ratio Lower Upper

75 100

110 7.7 17.3 52.0#

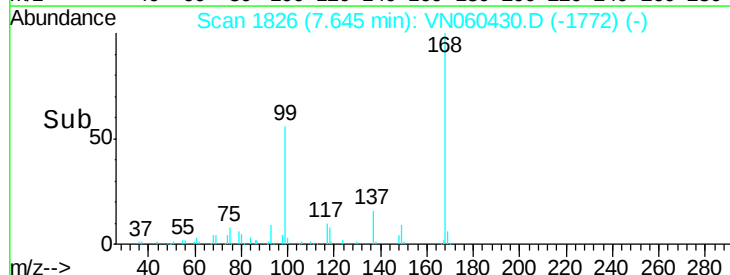
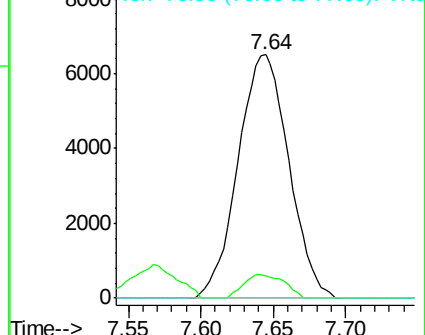
77 0.0 24.2 36.2#

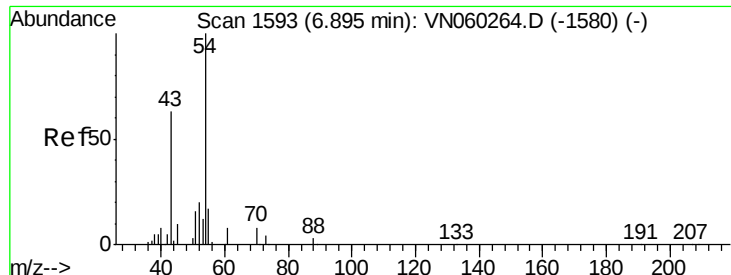


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

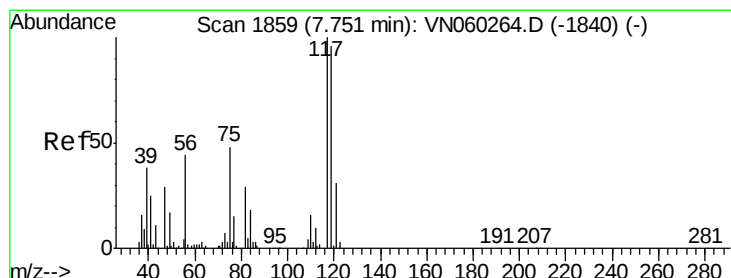
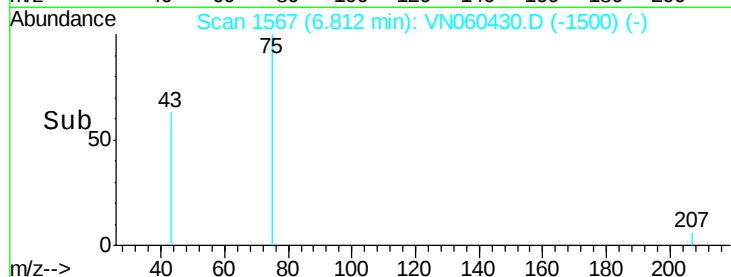
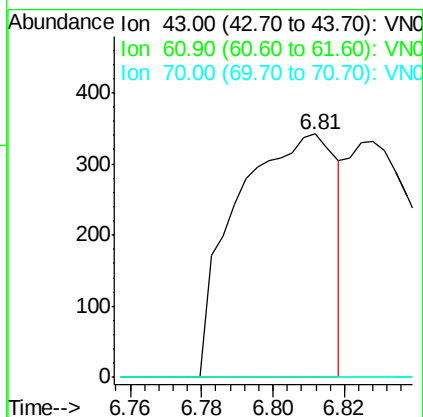
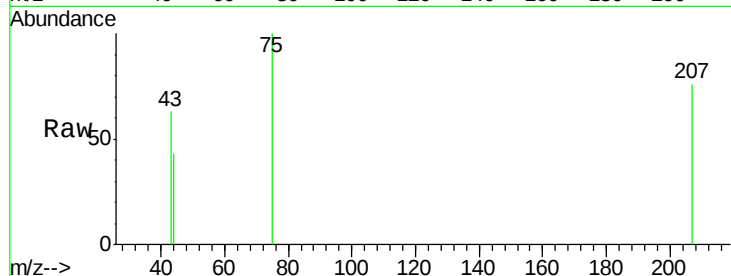




#37
Ethyl Acetate
Concen: 0.223 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.08 min
Lab File: VN060430.D
Acq: 10 Mar 2020 20:18

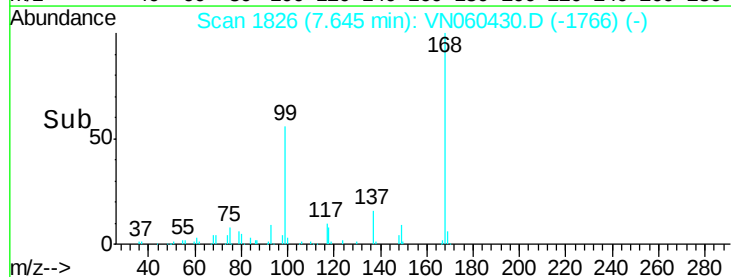
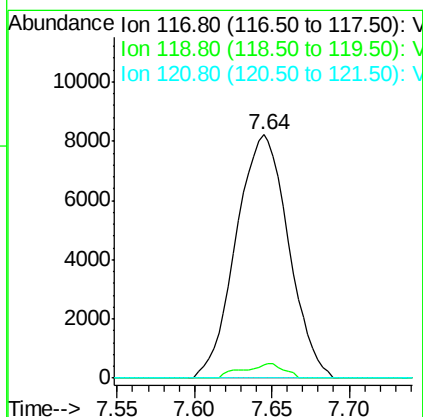
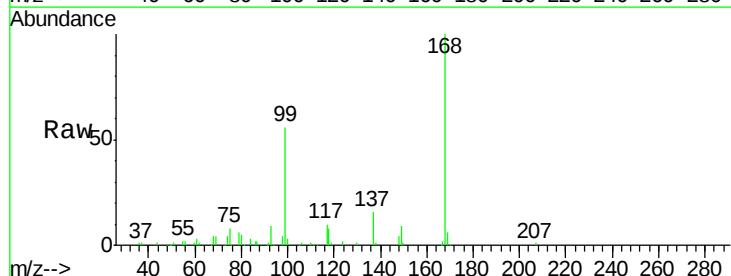
Instrument :
MSVOA_N
ClientSampleId :
TP-3-S

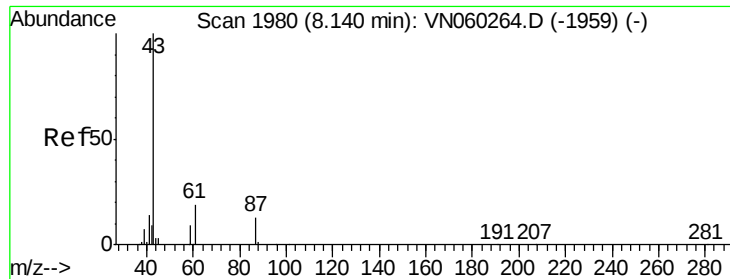
Tgt Ion: 43 Resp: 660
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.367 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060430.D
Acq: 10 Mar 2020 20:18

Tgt Ion: 117 Resp: 19338
Ion Ratio Lower Upper
117 100
119 5.5 76.7 115.1#
121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 9.500 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-S

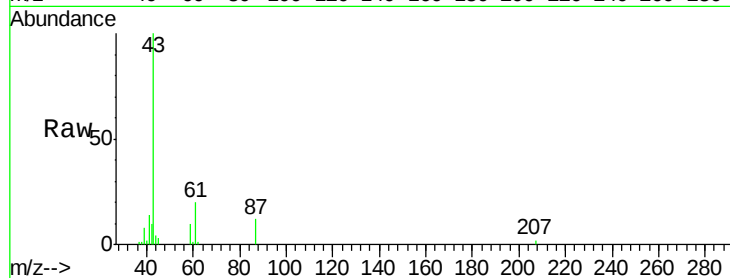
Tgt Ion: 43 Resp: 49126

Ion Ratio Lower Upper

43 100

61 19.6 20.9 31.3#

87 11.9 10.6 16.0

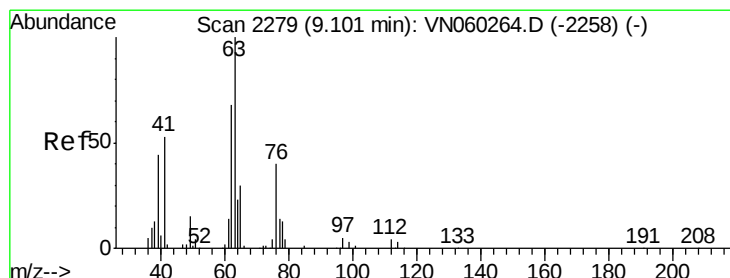
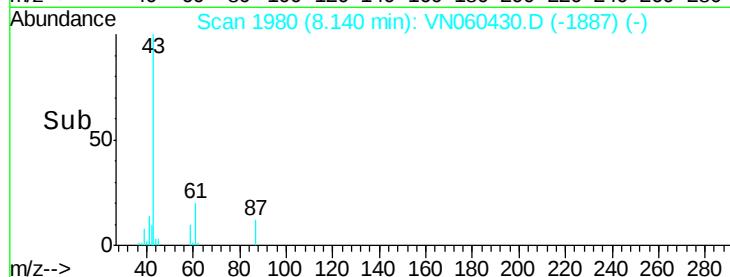


Abundance Ion 43.00 (42.70 to 43.70): VN060430.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060430.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060430.D (-1887) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.279 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060430.D

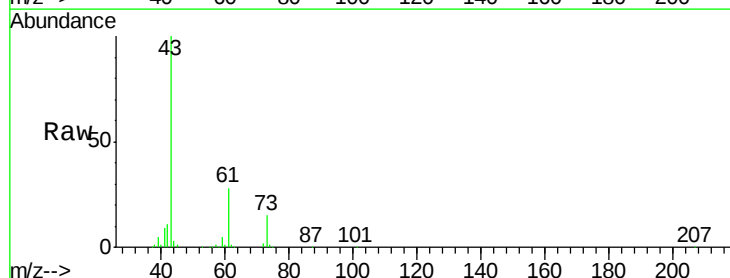
Acq: 10 Mar 2020 20:18

Tgt Ion: 63 Resp: 662

Ion Ratio Lower Upper

63 100

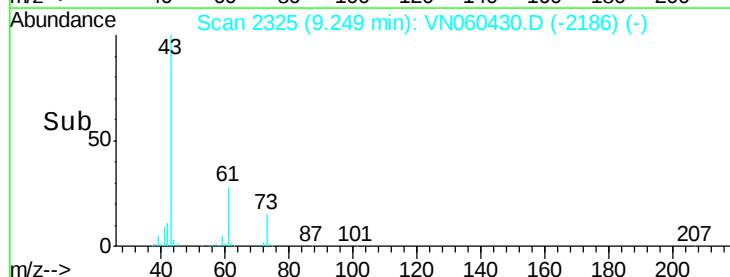
65 0.0 24.4 36.6#

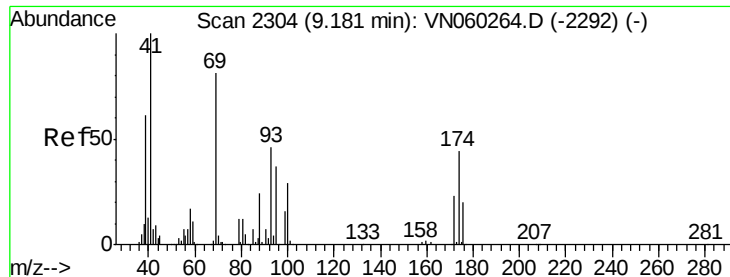


Abundance Ion 62.90 (62.60 to 63.60): VN060430.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060430.D (-2186) (-)

Time-->

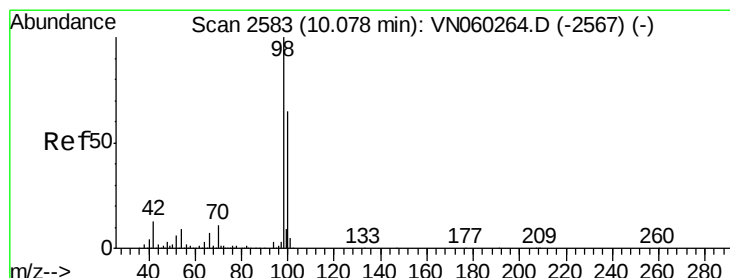
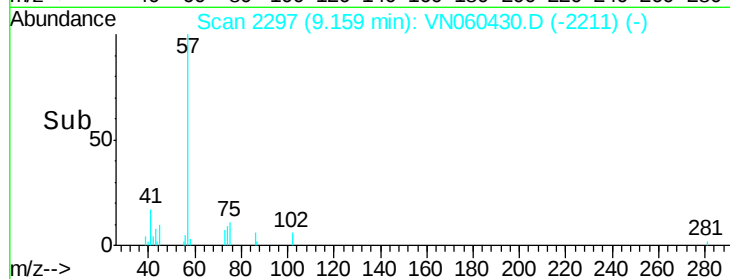
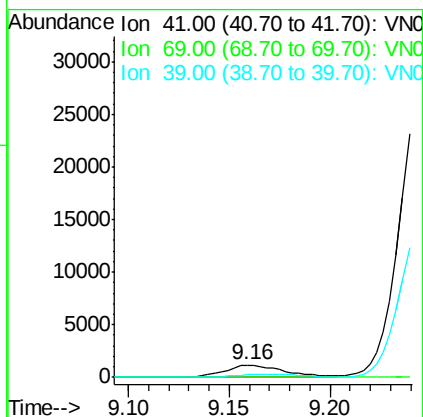
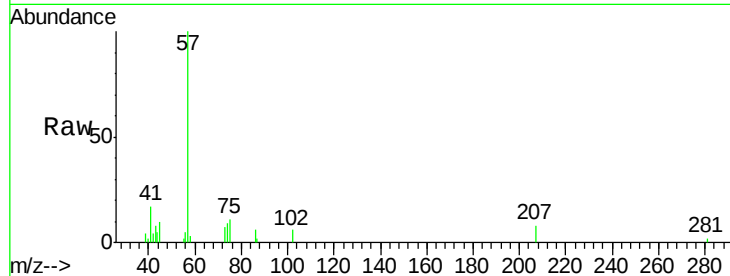




#48
Methyl methacrylate
Concen: 1.047 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060430.D
Acq: 10 Mar 2020 20:18

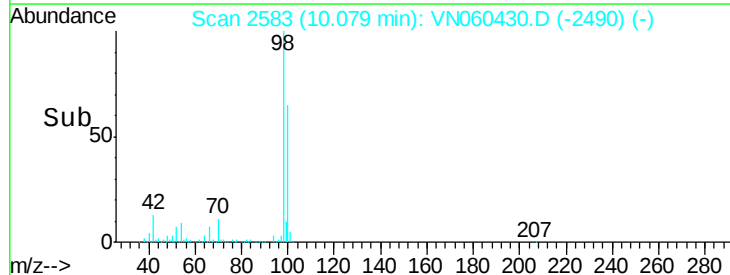
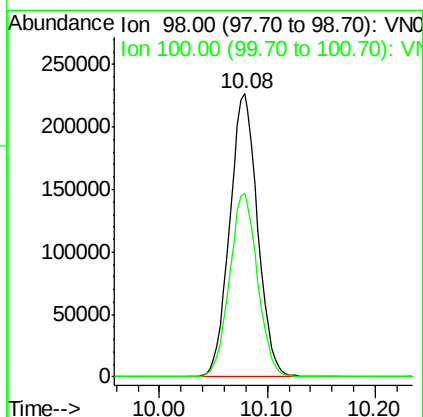
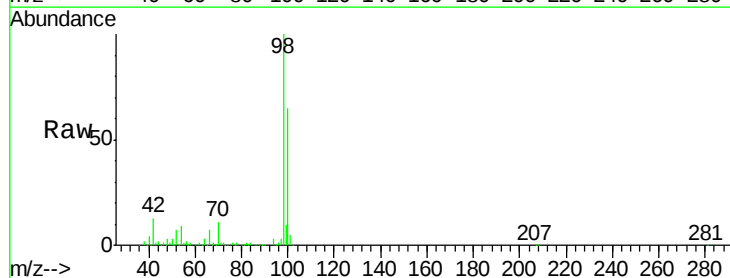
Instrument :
MSVOA_N
ClientSampled :
TP-3-S

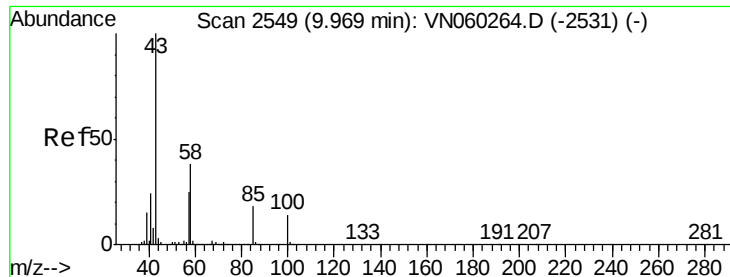
Tgt Ion: 41 Resp: 2468
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 53.146 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060430.D
Acq: 10 Mar 2020 20:18

Tgt Ion: 98 Resp: 408677
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.244 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampled :

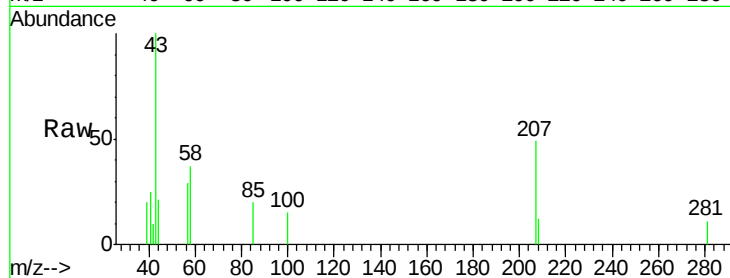
TP-3-S

Tgt Ion: 43 Resp: 3647

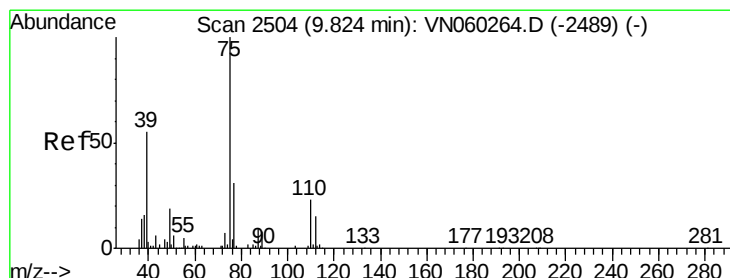
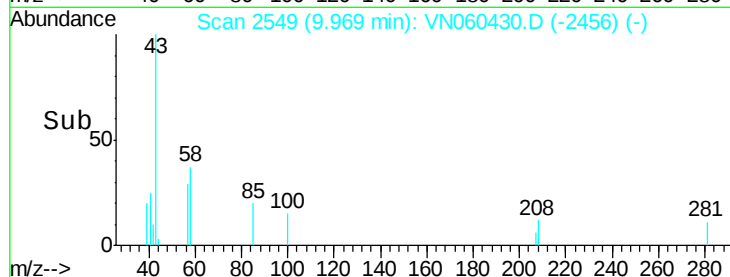
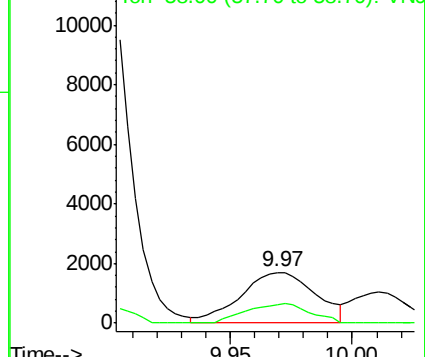
Ion Ratio Lower Upper

43 100

58 32.9 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO



#54

cis-1,3-Dichloropropene

Concen: 4.436 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

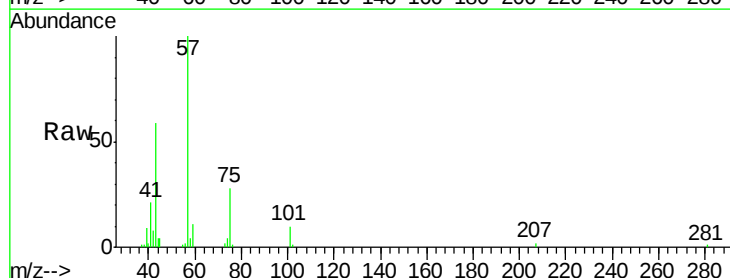
Tgt Ion: 75 Resp: 17645

Ion Ratio Lower Upper

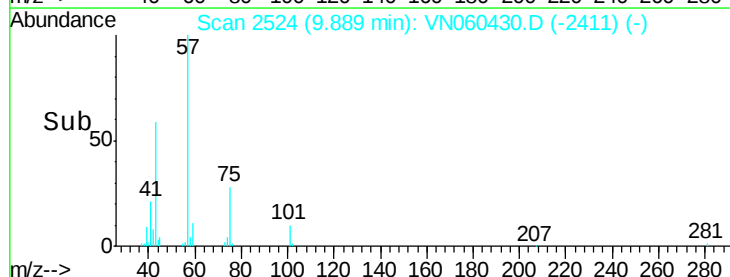
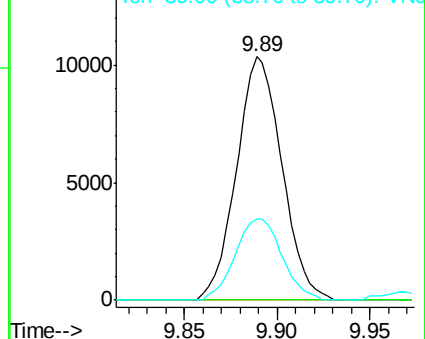
75 100

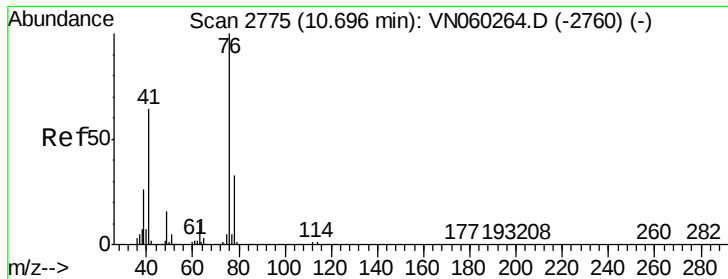
77 0.0 24.8 37.2#

39 33.3 43.8 65.8#



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





#57

1,3-Dichloropropane

Concen: 0.556 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampled :

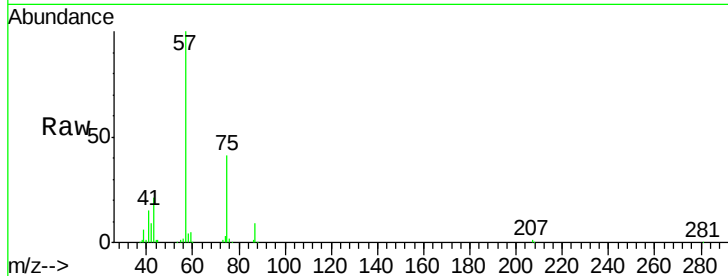
TP-3-S

Tgt Ion: 76 Resp: 2079

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.75

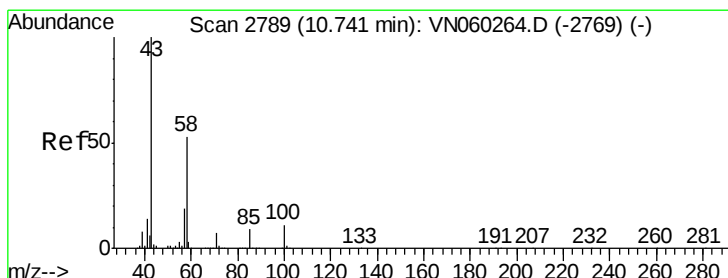
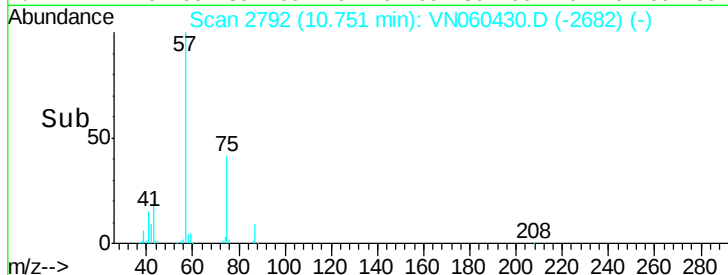
1500

1000

500

0

Time-->



#59

2-Hexanone

Concen: 15.145 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060430.D

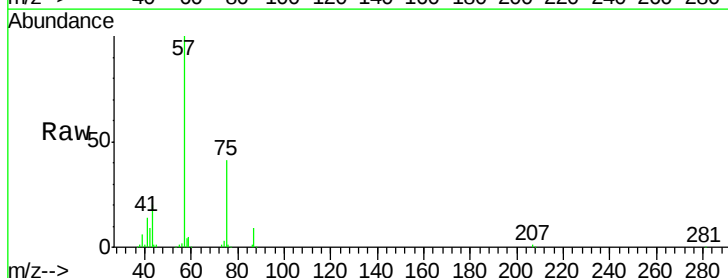
Acq: 10 Mar 2020 20:18

Tgt Ion: 43 Resp: 32604

Ion Ratio Lower Upper

43 100

58 18.5 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

25000

20000

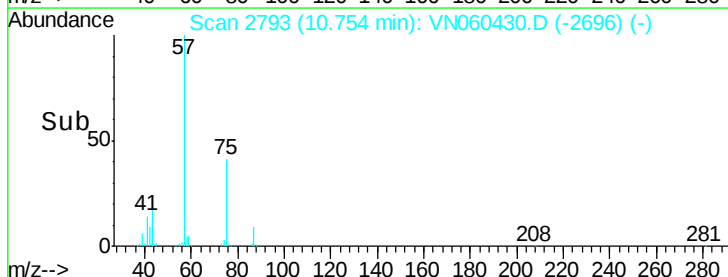
15000

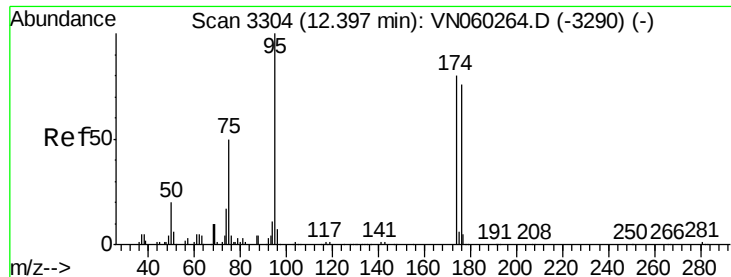
10000

5000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 52.300 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-S

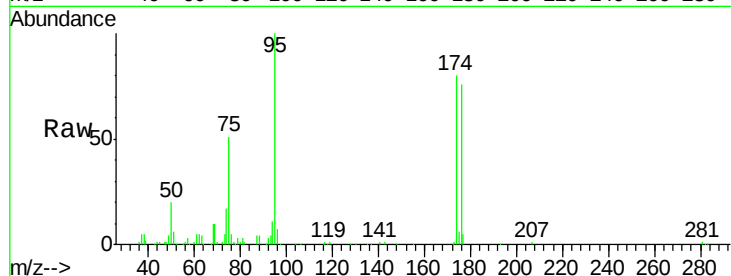
Tgt Ion: 95 Resp: 152455

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.2

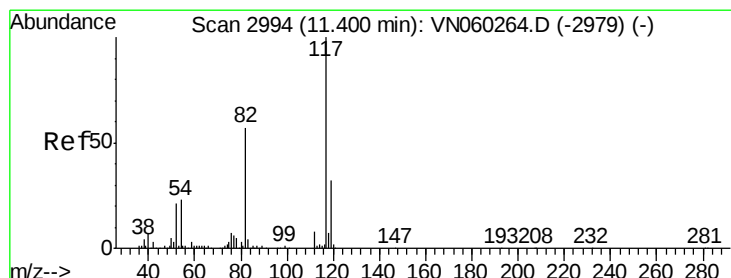
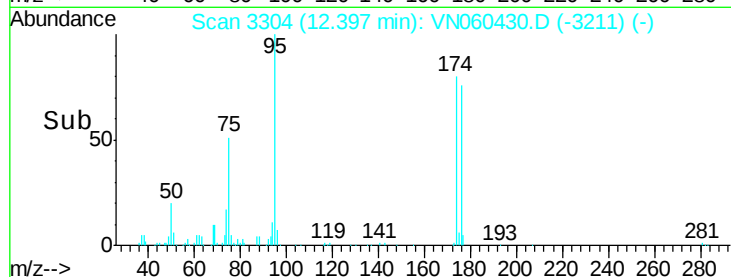
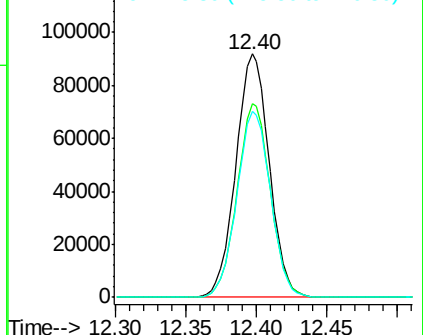
176 77.2 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060430.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060430.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060430.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

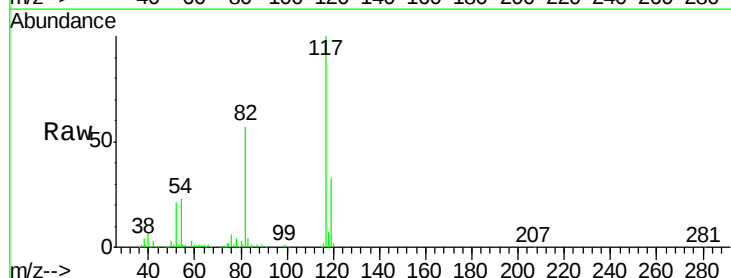
Tgt Ion: 117 Resp: 311234

Ion Ratio Lower Upper

117 100

82 57.1 45.8 68.6

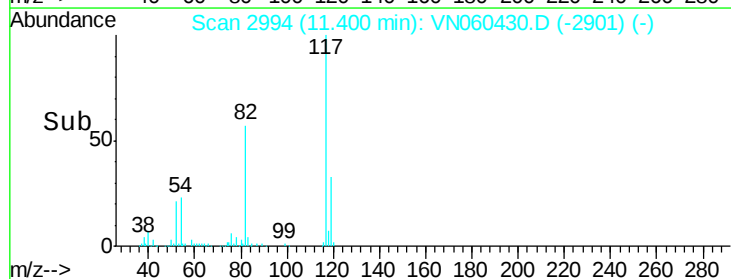
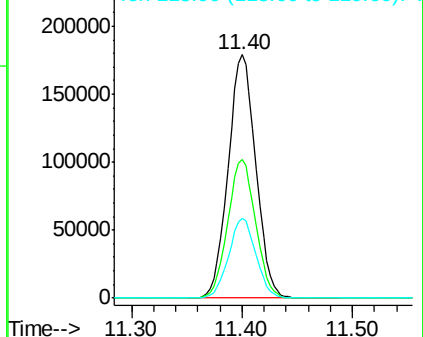
119 32.9 25.8 38.8

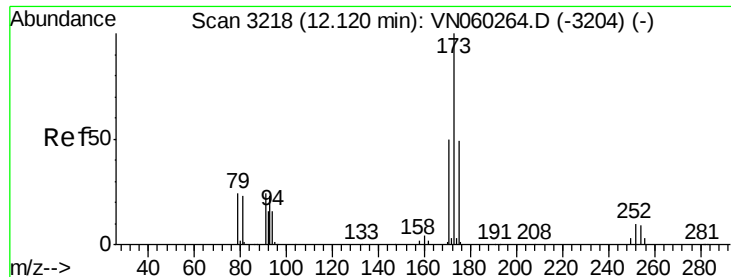


Abundance Ion 116.90 (116.60 to 117.60): VN060430.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060430.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060430.D (-2901) (-)





#71

Bromoform

Concen: 0.384 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-S

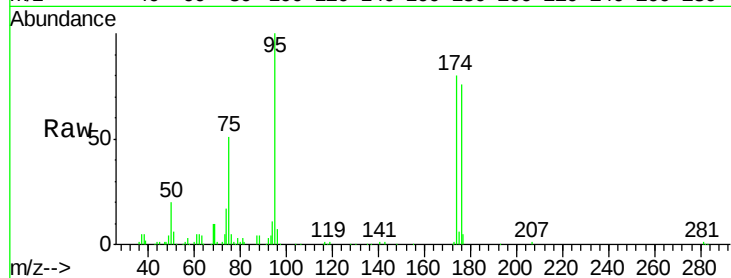
Tgt Ion:173 Resp: 643

Ion Ratio Lower Upper

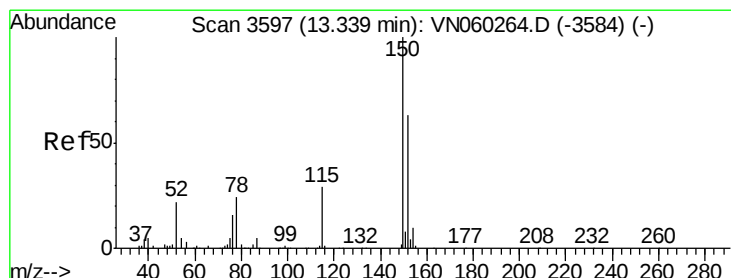
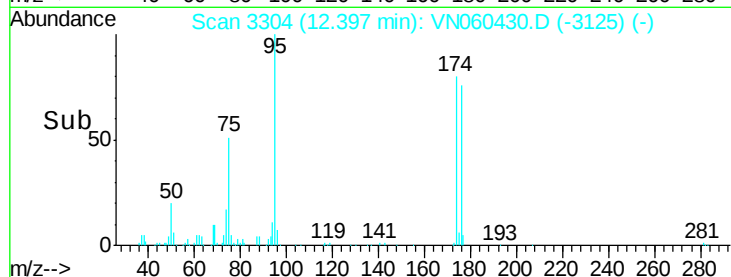
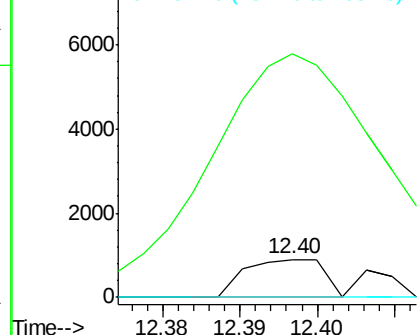
173 100

175 1204.4 24.1 72.2#

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: VN060430.D

Acq: 10 Mar 2020 20:18

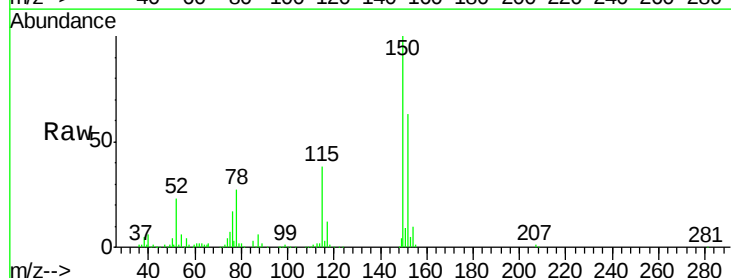
Tgt Ion:152 Resp: 145699

Ion Ratio Lower Upper

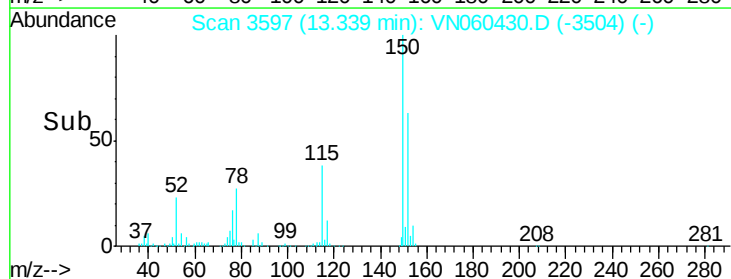
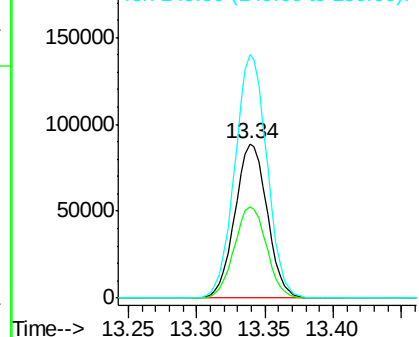
152 100

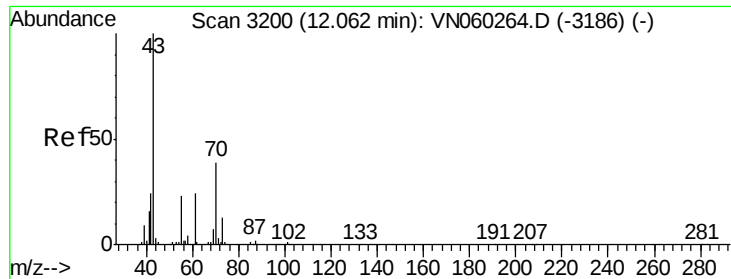
115 59.5 30.0 90.0

150 157.3 0.0 349.6



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: 0.337 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampled :

TP-3-S

Tgt Ion: 43 Resp: 1591

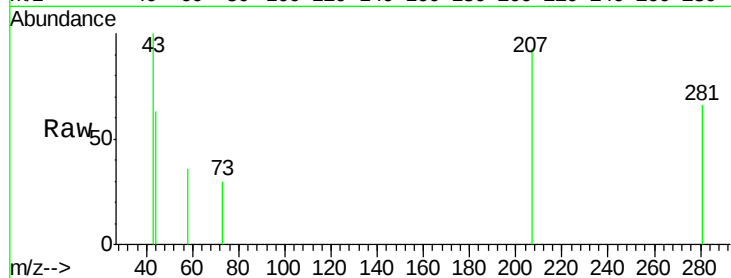
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

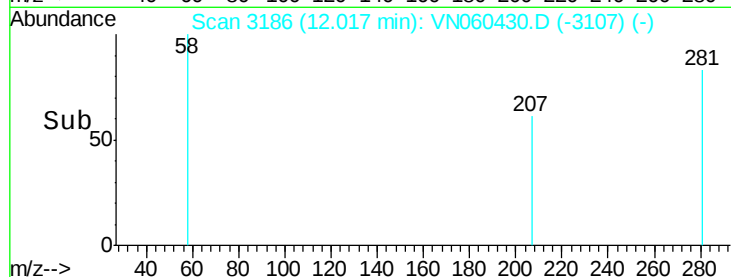
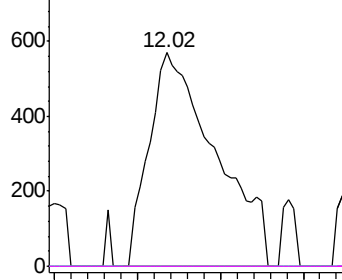


Abundance Ion 43.00 (42.70 to 43.70): VN0

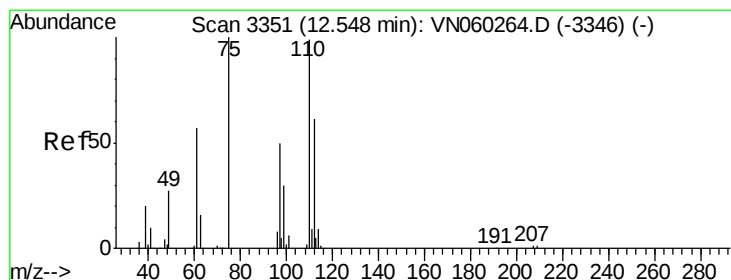
Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 24.201 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060430.D

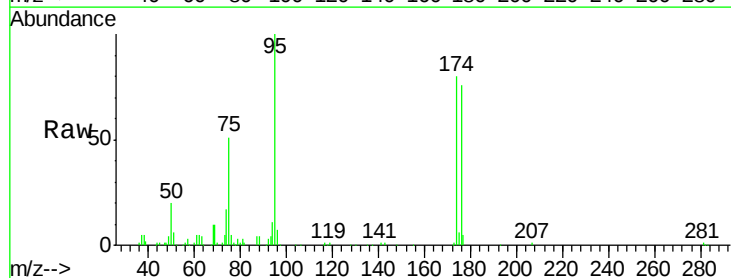
Acq: 10 Mar 2020 20:18

Tgt Ion: 75 Resp: 77362

Ion Ratio Lower Upper

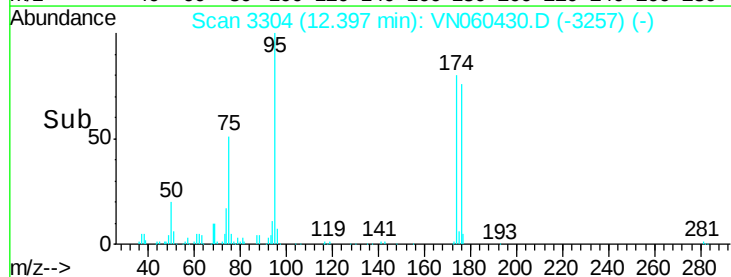
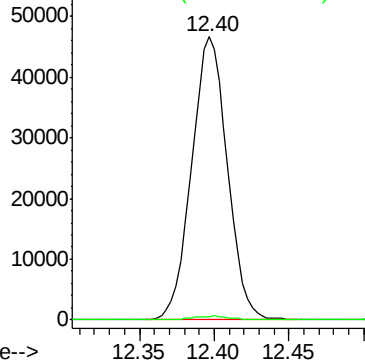
75 100

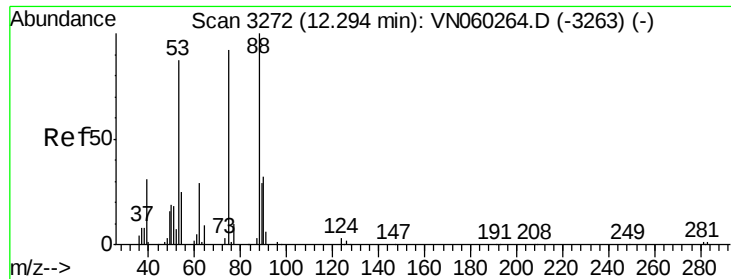
77 1.4 0.0 0.0#



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: 66.806 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060430.D

Acq: 10 Mar 2020 20:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-S

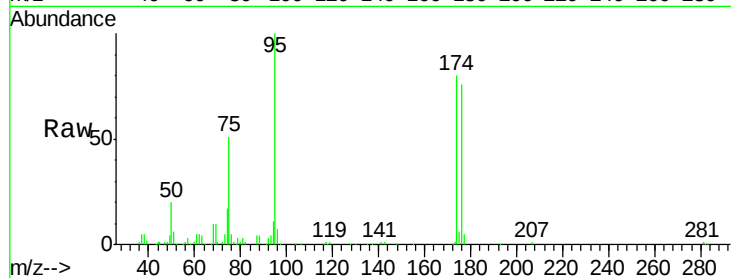
Tgt Ion: 75 Resp: 77362

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



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

