

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060854.D
 Acq On : 6 Apr 2020 16:20
 Operator : JC/MD
 Sample : L2129-44
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Apr 07 07:05:26 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	206922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	347307	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	323053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143402	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	133153	46.88	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.76%	
35) Dibromofluoromethane	7.56	113	101825	48.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.98%	
50) Toluene-d8	10.08	98	427693	49.86	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.40	95	160153	50.94	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.88%	

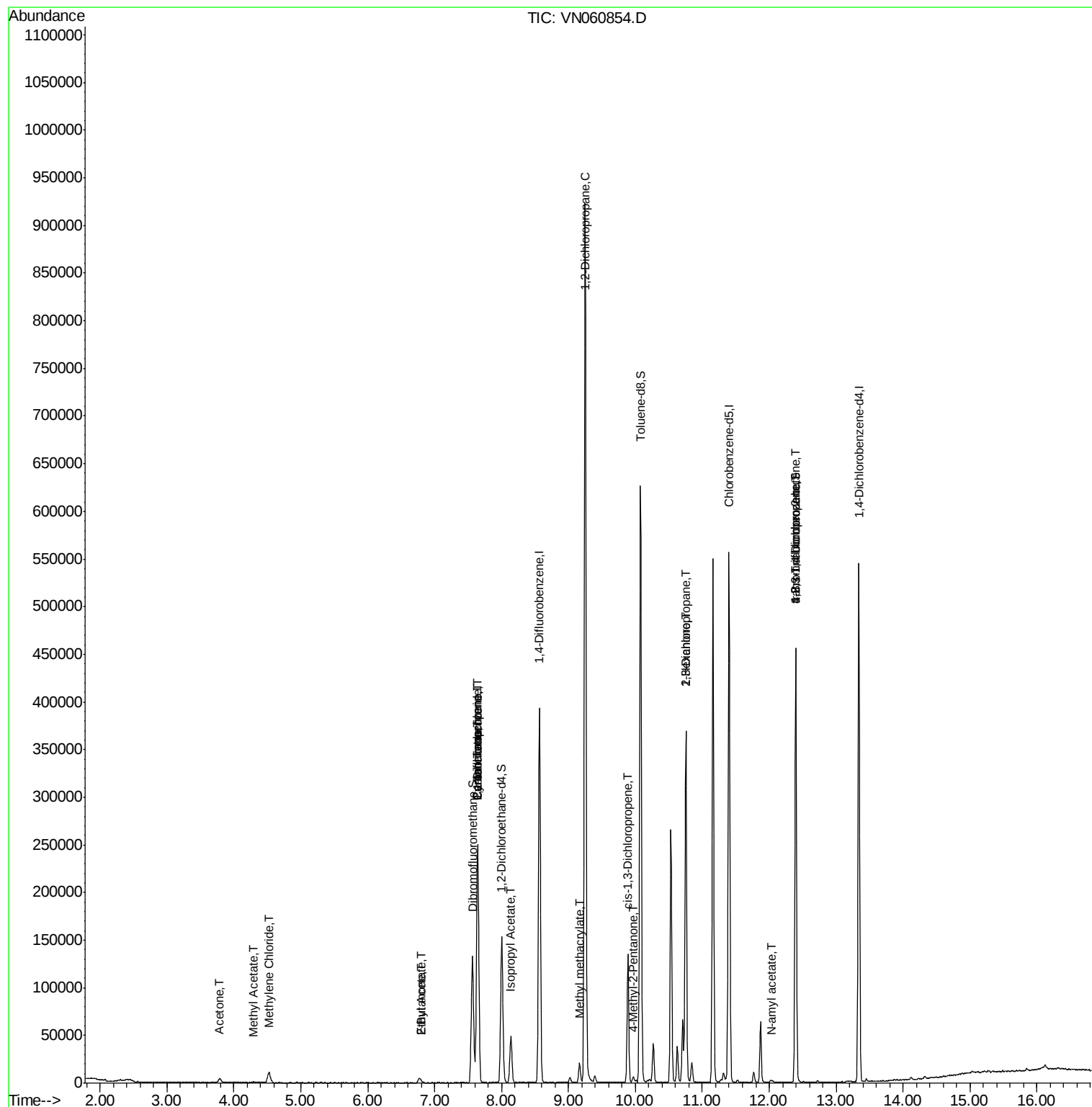
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	8221	8.170	ug/l	96
18) Methyl Acetate	4.30	43	2031	0.717	ug/l #	54
20) Methylene Chloride	4.53	84	8122	3.281	ug/l	94
25) 2-Butanone	6.81	43	1274	0.782	ug/l #	50
31) Cyclohexane	7.64	56	4183	0.914	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16020	4.764	ug/l #	50
37) Ethyl Acetate	6.81	43	1274	0.351	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19657	6.522	ug/l #	16
43) Isopropyl Acetate	8.14	43	57540	9.601	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1030	0.384	ug/l #	43
48) Methyl methacrylate	9.16	41	2957	1.108	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4741	1.390	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	24070	5.676	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3513	0.858	ug/l #	42
59) 2-Hexanone	10.75	43	54182	22.056	ug/l #	52
74) N-amyl acetate	12.02	43	2489	0.501	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	80077	25.879	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	80077	66.464	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

Instrument :

MSVOA_N

ClientSampleId :

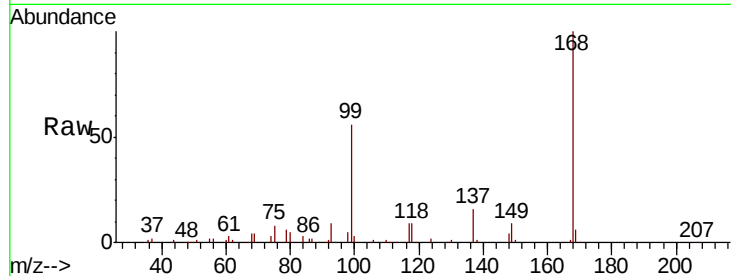
TP-3

Tot Ion:168 Resp: 206922

Ion Ratio Lower Upper

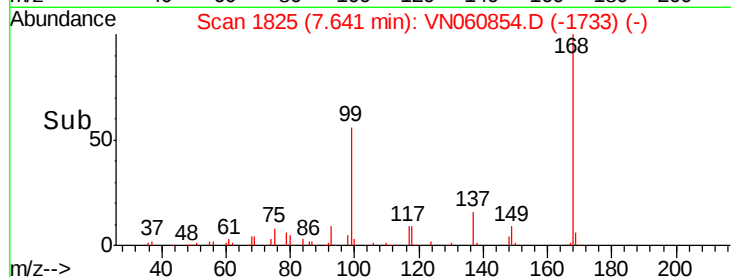
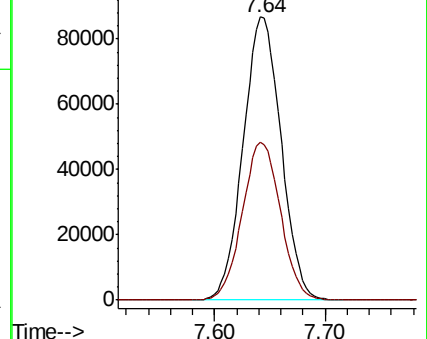
168 100

99 55.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060854.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060854.D (-1733) (-)



#16

Acetone

Concen: 8.170 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060854.D

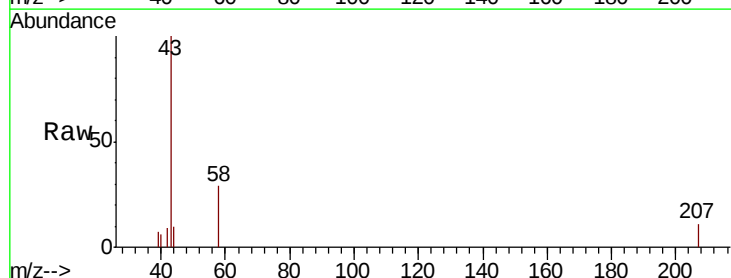
Acq: 6 Apr 2020 16:20

Tgt Ion: 43 Resp: 8221

Ion Ratio Lower Upper

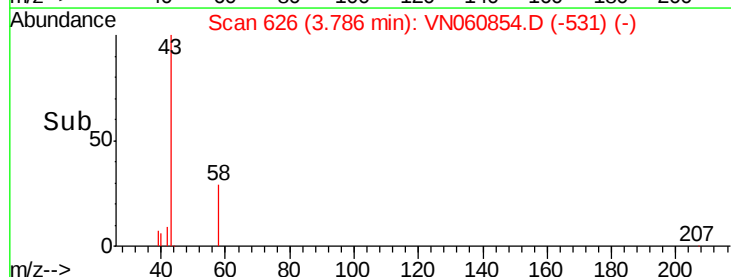
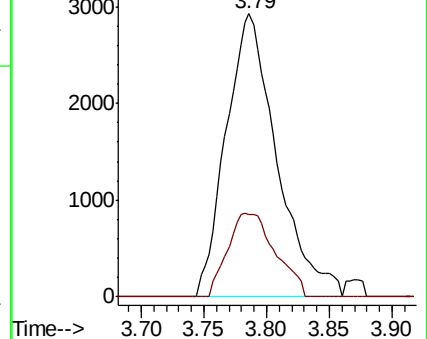
43 100

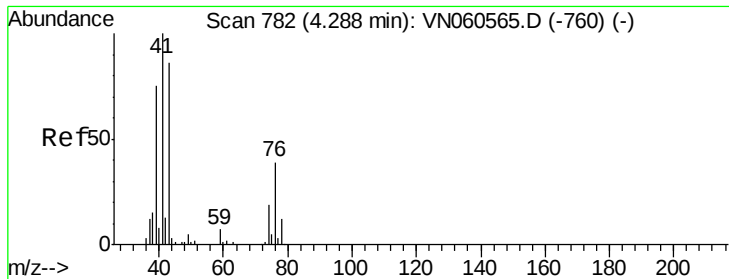
58 29.3 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060854.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060854.D (-531) (-)

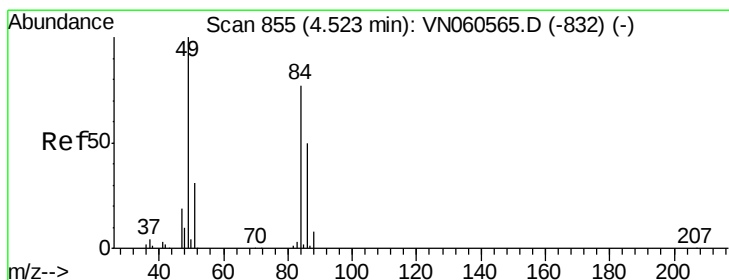
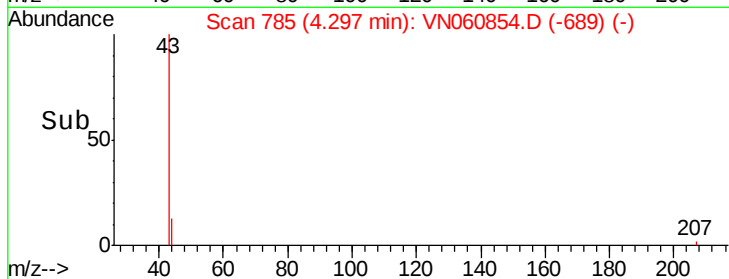
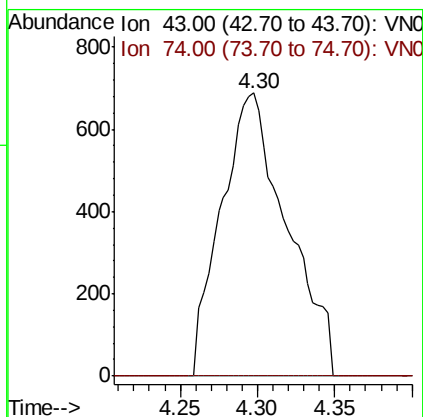
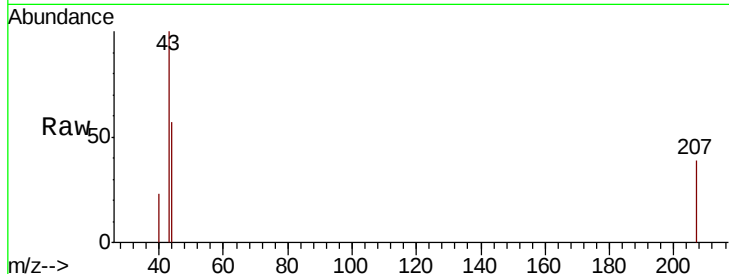




#18
Methyl Acetate
Concen: 0.717 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

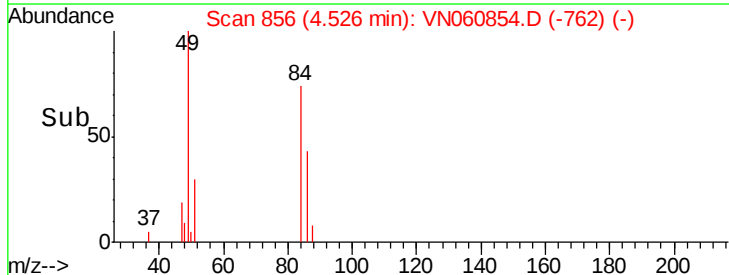
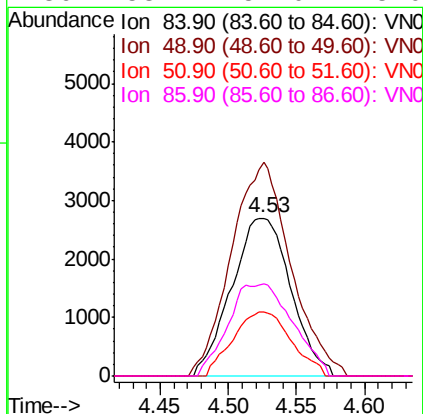
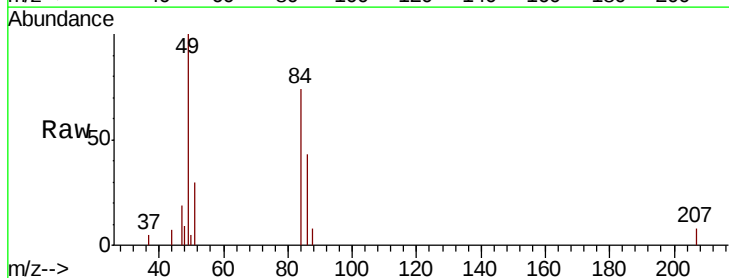
Instrument :
MSVOA_N
ClientSampleId :
TP-3

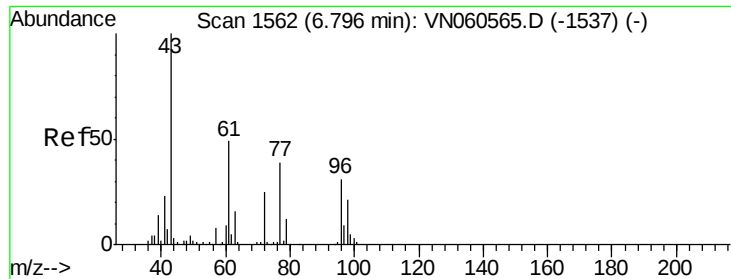
Tot Ion: 43 Resp: 2031
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.281 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

Tgt Ion: 84 Resp: 8122
Ion Ratio Lower Upper
84 100
49 135.1 103.3 154.9
51 40.8 31.6 47.4
86 58.2 52.0 78.0





#25

2-Butanone

Concen: 0.782 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

Instrument :

MSVOA_N

ClientSampled :

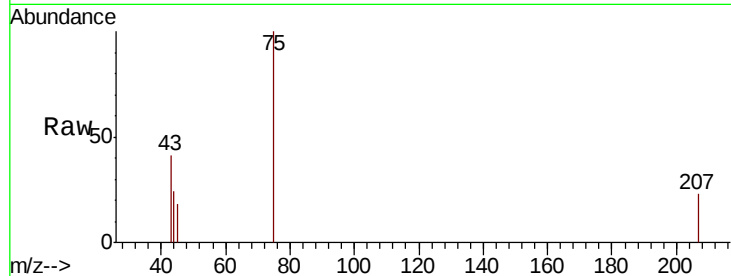
TP-3

Tot Ion: 43 Resp: 1274

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

500

400

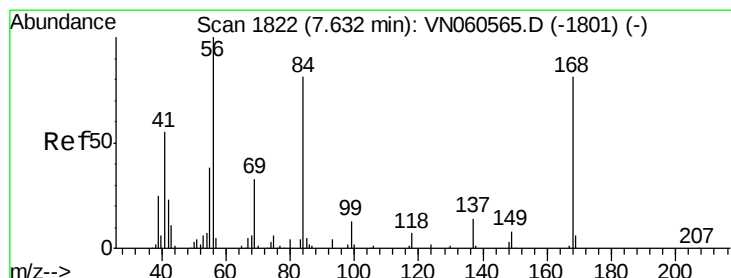
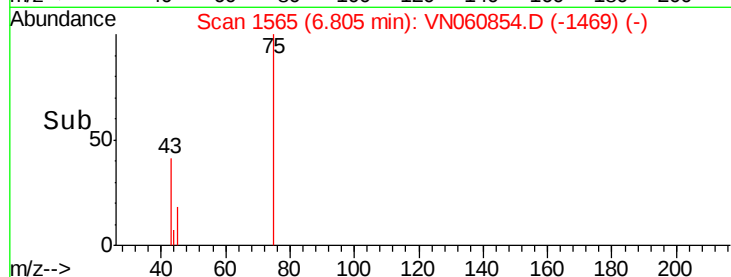
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 0.914 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

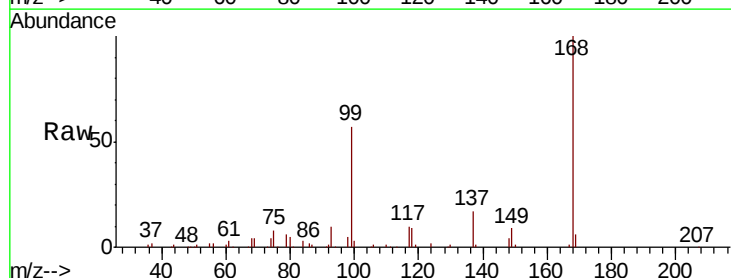
Tgt Ion: 56 Resp: 4183

Ion Ratio Lower Upper

56 100

69 189.4 26.6 40.0#

84 161.1 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

4000

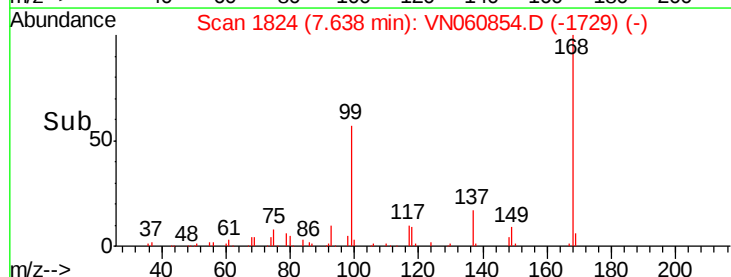
3000

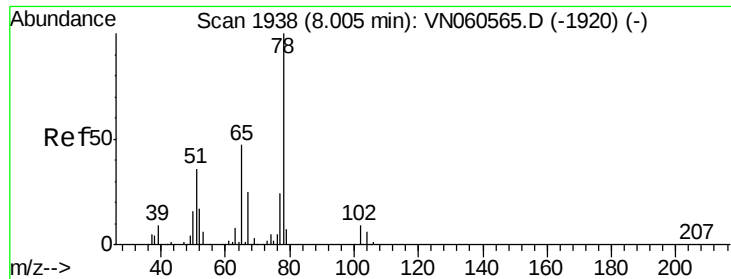
2000

1000

0

Time-->

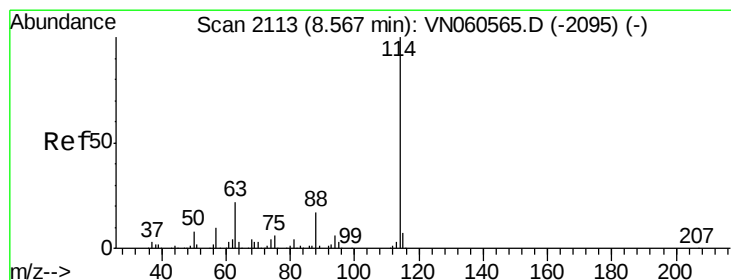
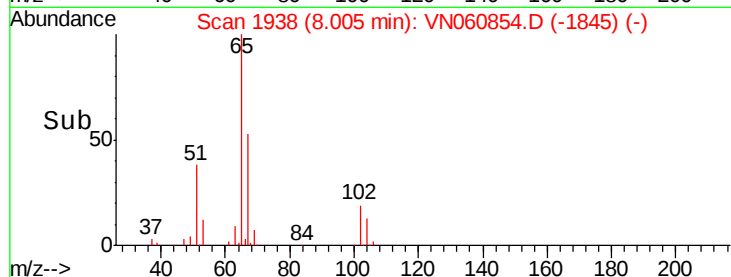
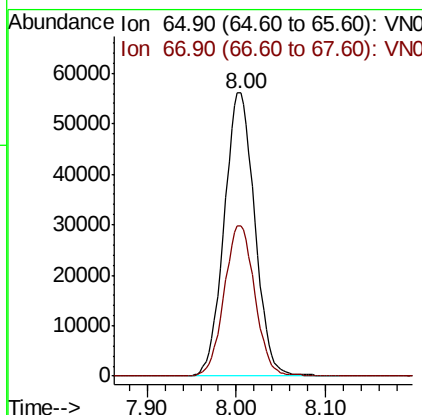
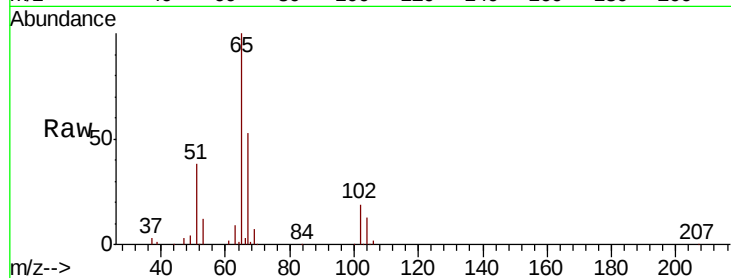




#33
 1,2-Dichloroethane-d4
 Concen: 46.876 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060854.D
 Acq: 6 Apr 2020 16:20

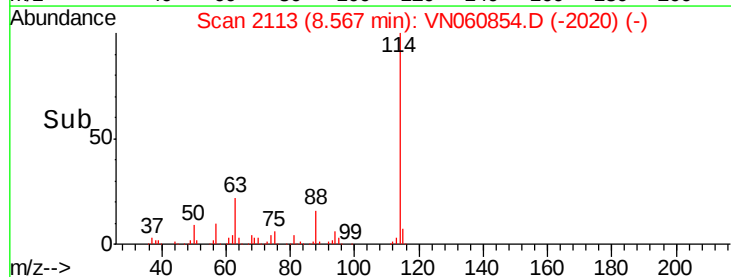
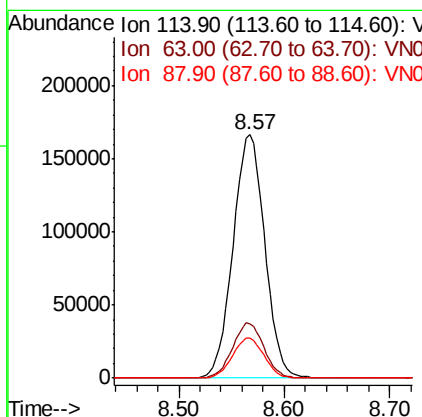
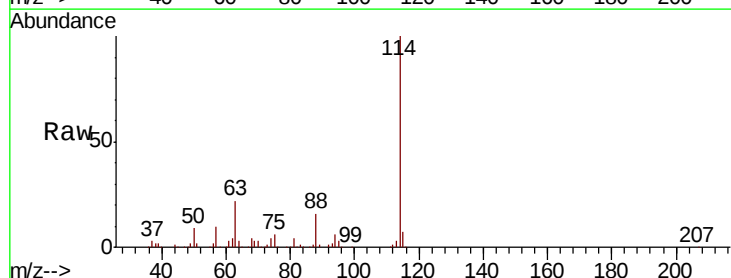
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3

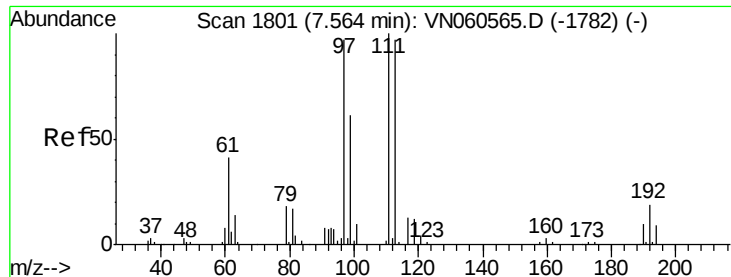
Tot Ion: 65 Resp: 133153
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060854.D
 Acq: 6 Apr 2020 16:20

Tgt Ion: 114 Resp: 347307
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 16.3 0.0 33.0

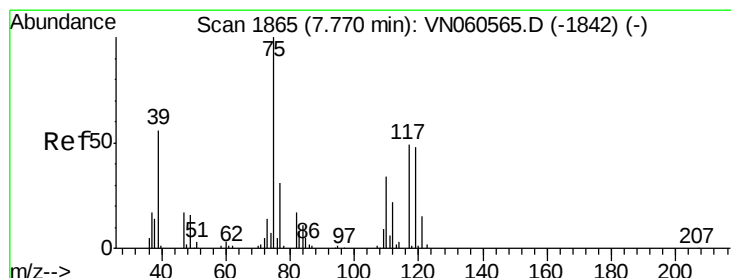
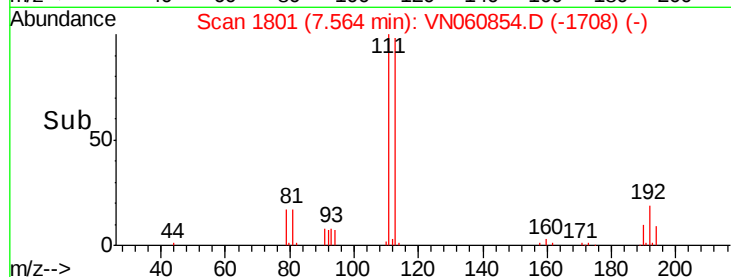
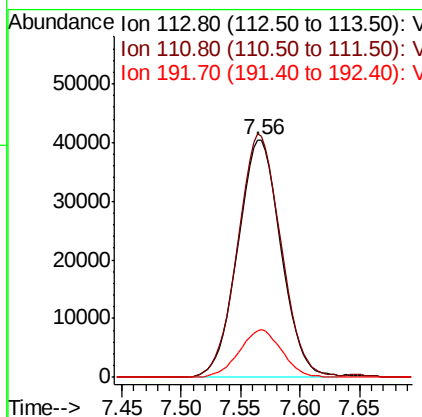
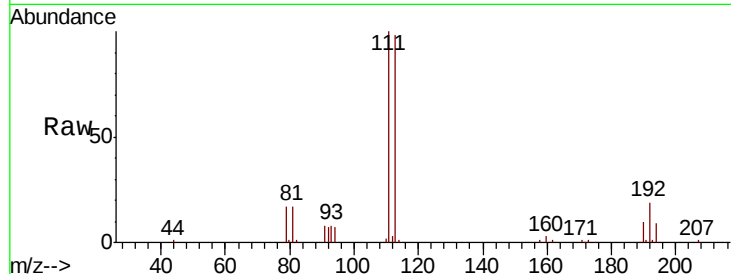




#35
 Dibromofluoromethane
 Concen: 48.487 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060854.D
 Acq: 6 Apr 2020 16:20

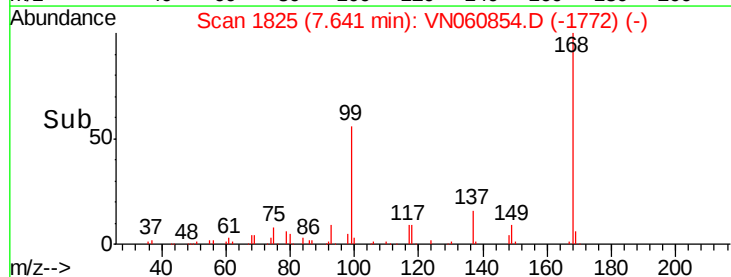
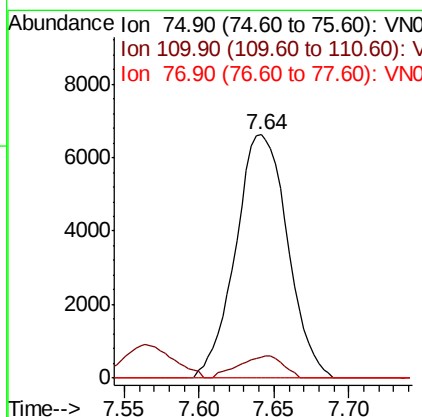
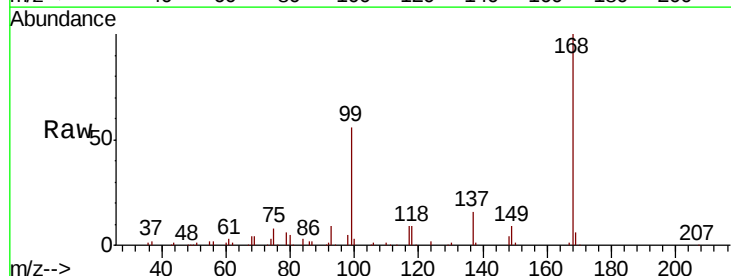
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3

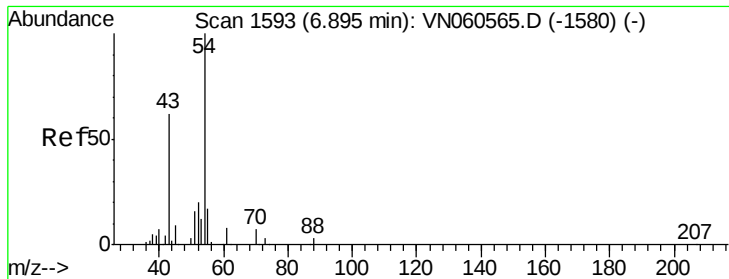
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.9	124.3
192	19.7	15.8	23.8



#36
 1,1-Dichloropropene
 Concen: 4.764 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060854.D
 Acq: 6 Apr 2020 16:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.9	50.6#
77	0.0	24.6	36.8#

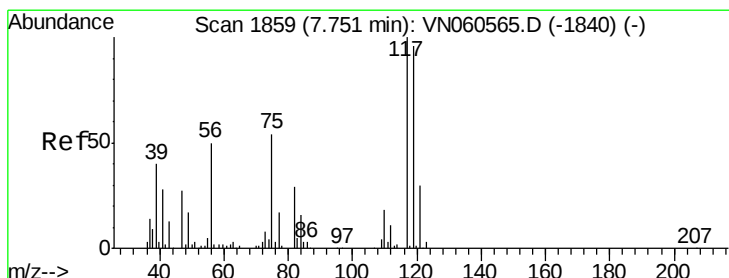
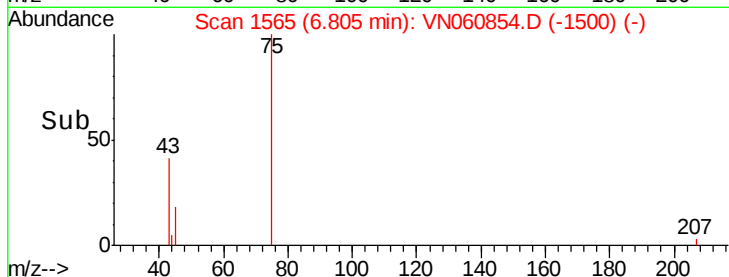
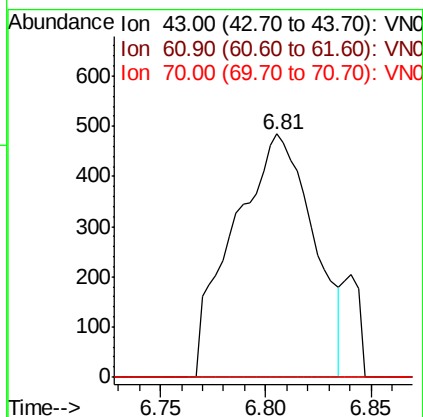
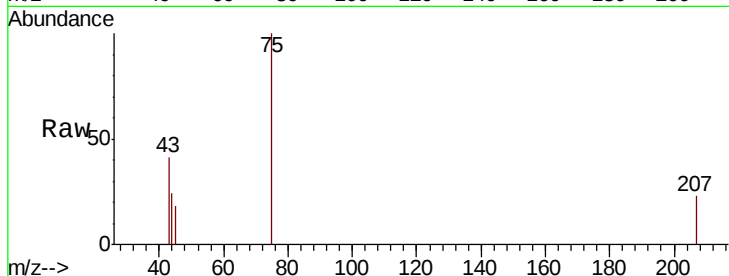




#37
Ethyl Acetate
Concen: 0.351 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

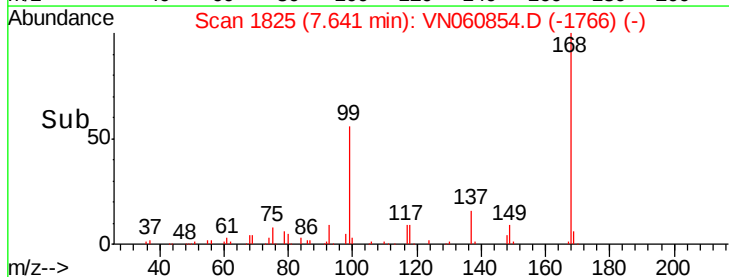
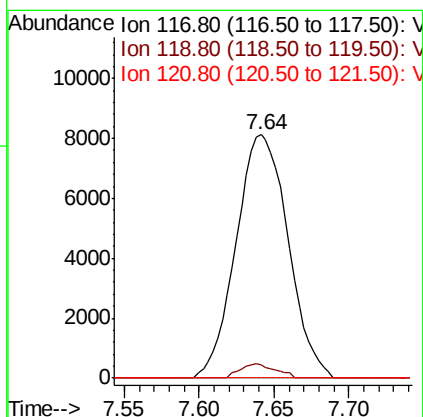
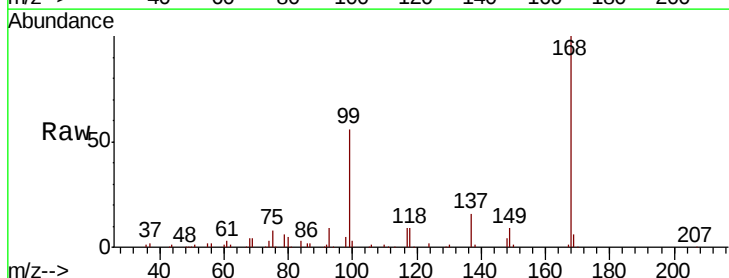
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MSVOA_N
ClientSampleId :
TP-3

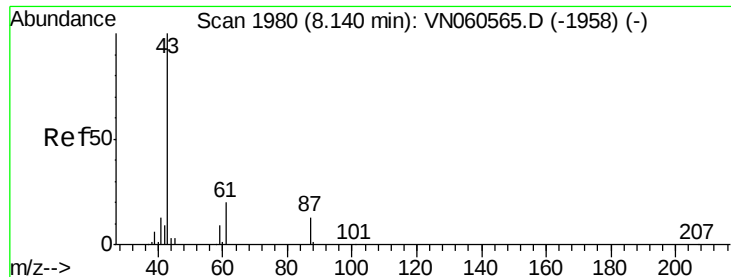
Tot Ion: 43 Resp: 1274
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.522 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

Tgt Ion: 117 Resp: 19657
Ion Ratio Lower Upper
117 100
119 5.2 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 9.601 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

Instrument :

MSVOA_N

ClientSampled :

TP-3

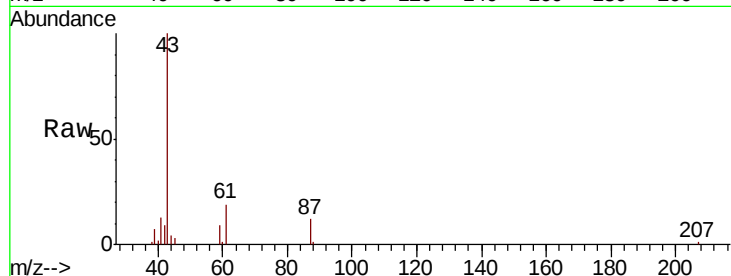
Tot Ion: 43 Resp: 57540

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

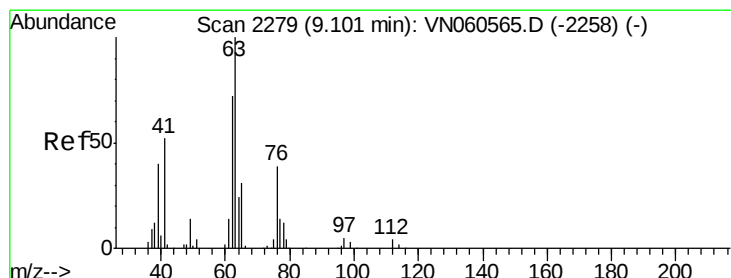
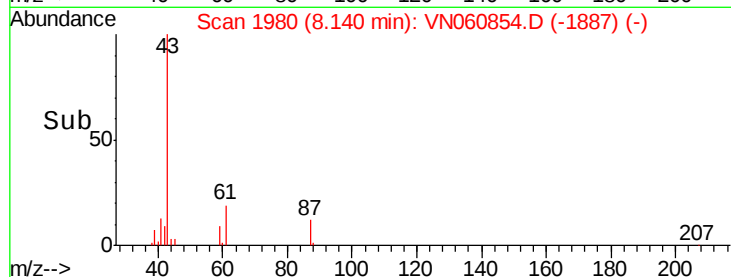
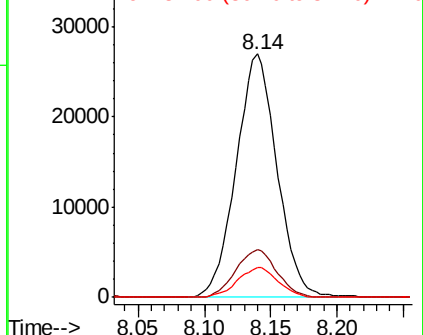
87 12.2 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060565.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060565.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.384 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060854.D

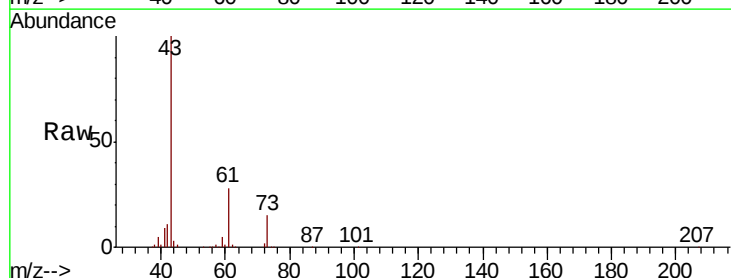
Acq: 6 Apr 2020 16:20

Tgt Ion: 63 Resp: 1030

Ion Ratio Lower Upper

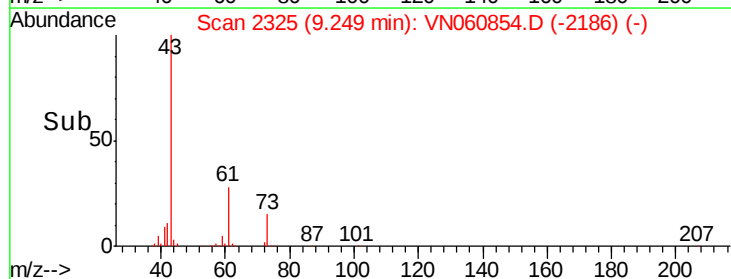
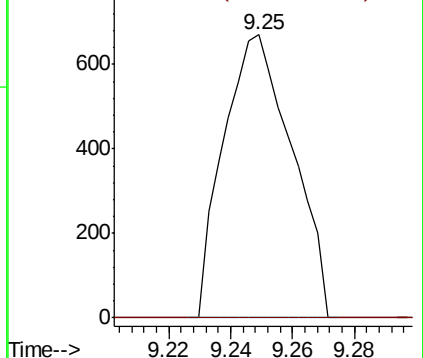
63 100

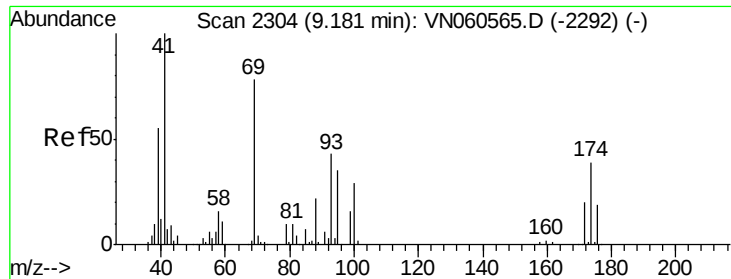
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060565.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060565.D (-2258) (-)

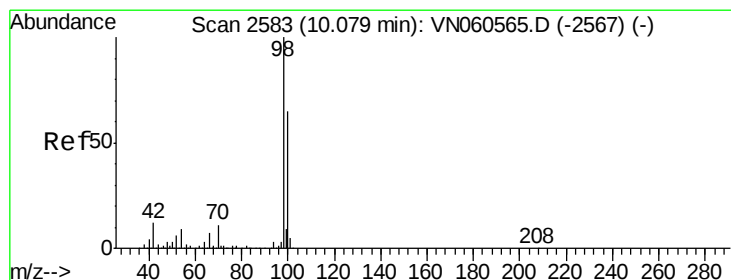
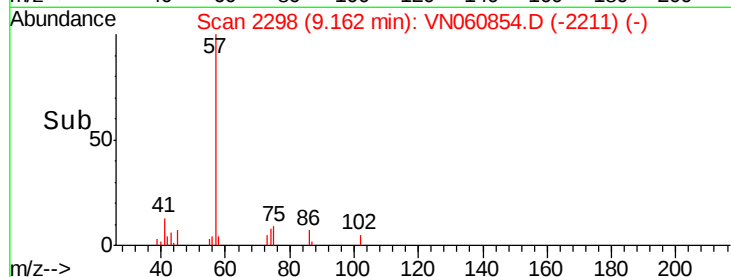
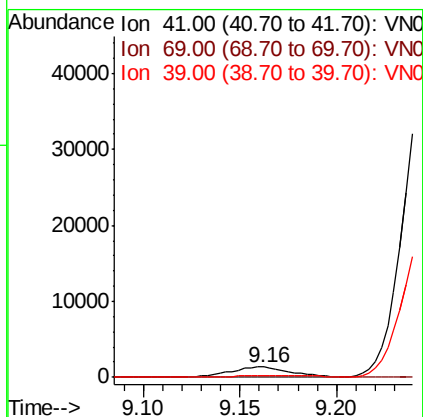
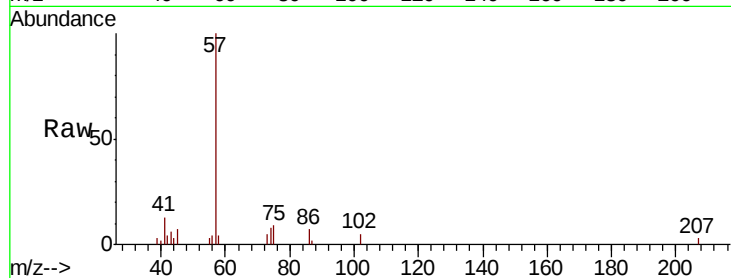




#48
Methvl methacrylate
Concen: 1.108 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

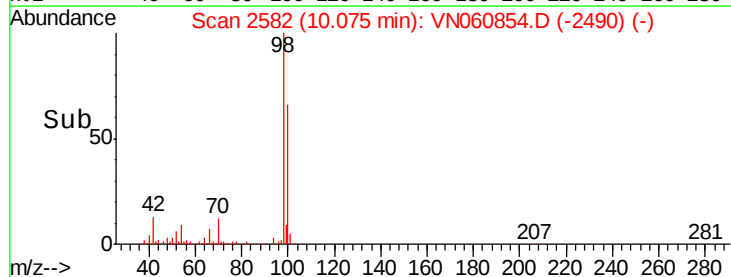
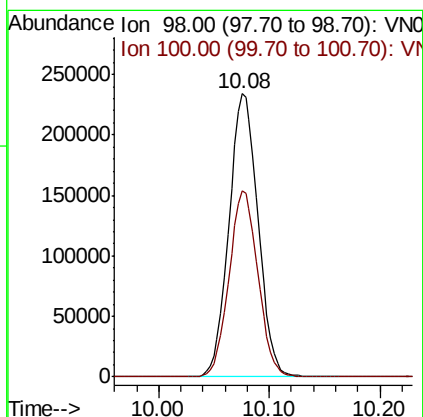
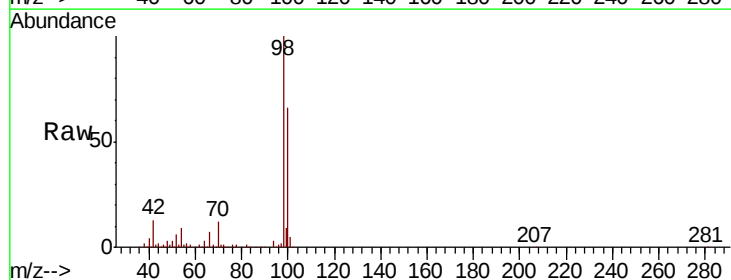
Instrument :
MSVOA_N
ClientSampleId :
TP-3

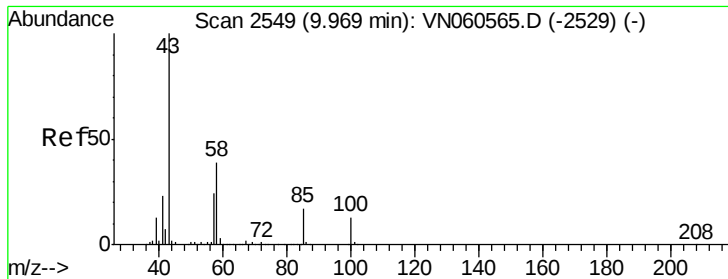
Tot Ion: 41 Resp: 2957
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.860 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

Tgt Ion: 98 Resp: 427693
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8

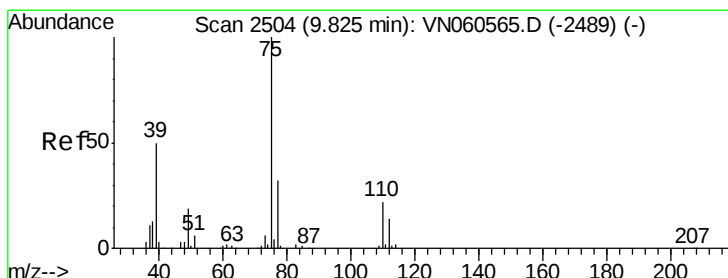
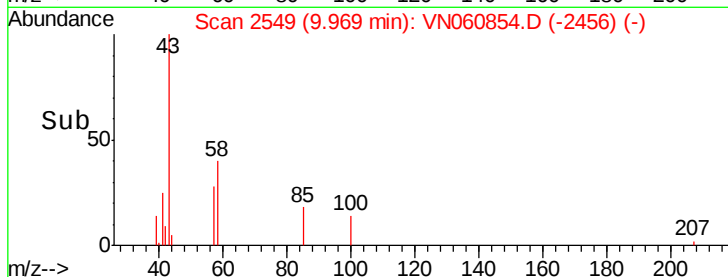
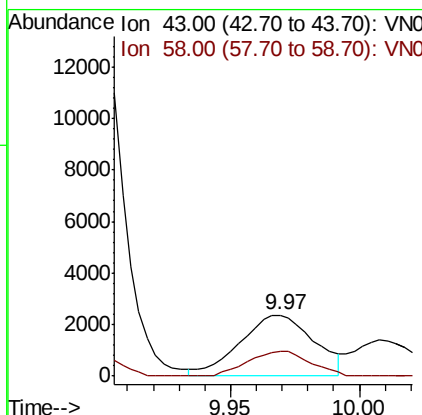
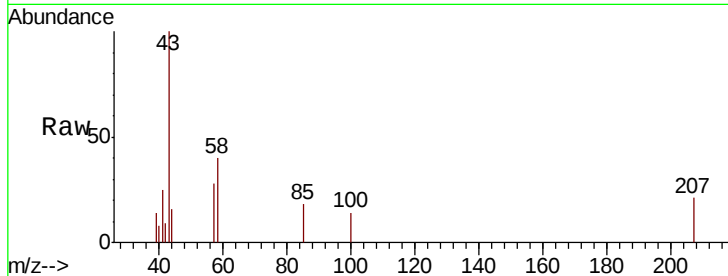




#51
 4-Methyl-2-Pentanone
 Concen: 1.390 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060854.D
 Acq: 6 Apr 2020 16:20

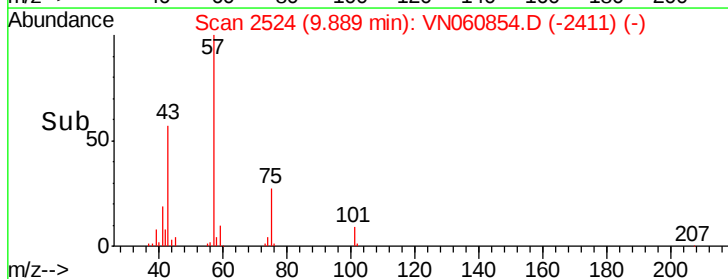
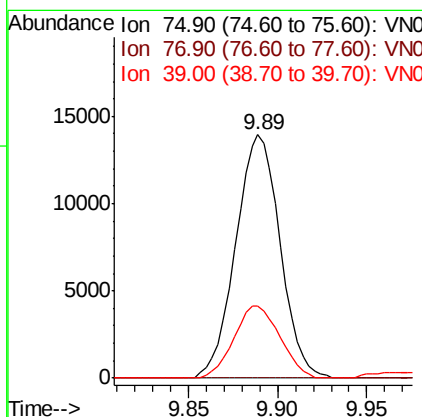
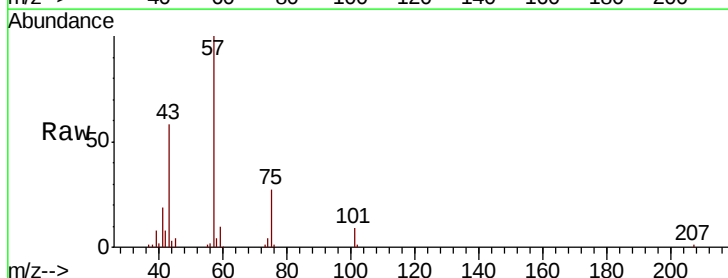
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3

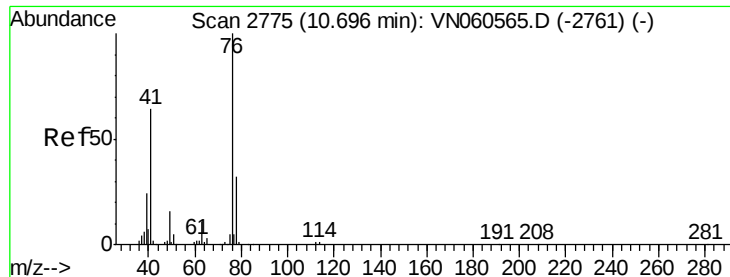
Tot Ion: 43 Resp: 4741
 Ion Ratio Lower Upper
 43 100
 58 34.2 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.676 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060854.D
 Acq: 6 Apr 2020 16:20

Tgt Ion: 75 Resp: 24070
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 29.7 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.858 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

Instrument :

MSVOA_N

ClientSampled :

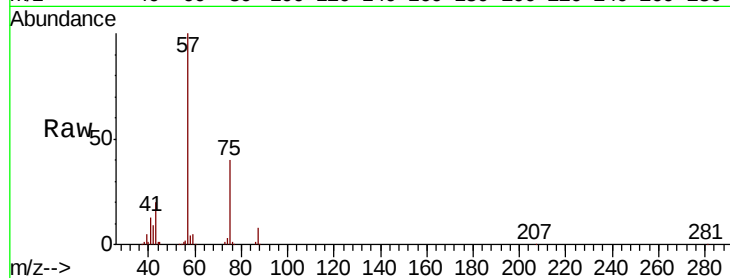
TP-3

Tot Ion: 76 Resp: 3513

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

2500

2000

1500

1000

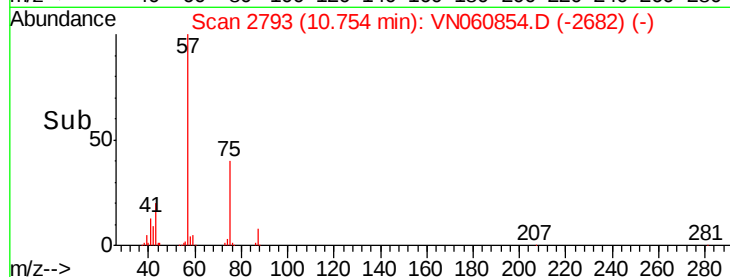
500

0

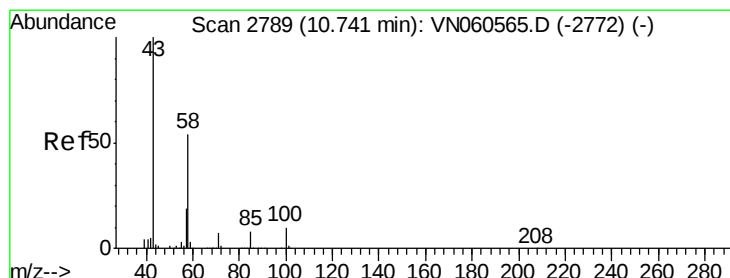
10.70

10.75

10.80



Time-->



#59

2-Hexanone

Concen: 22.056 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060854.D

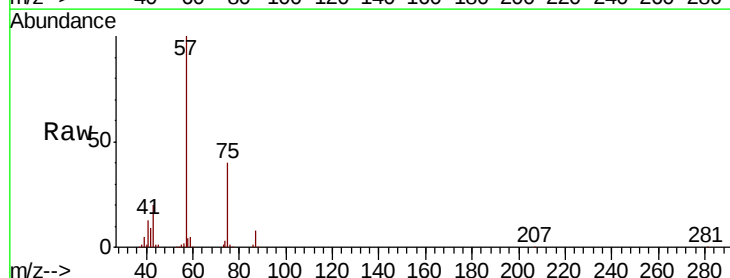
Acq: 6 Apr 2020 16:20

Tgt Ion: 43 Resp: 54182

Ion Ratio Lower Upper

43 100

58 19.2 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

40000

30000

20000

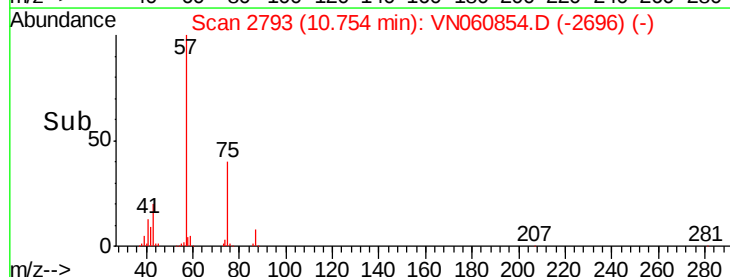
10000

0

10.70

10.75

10.80



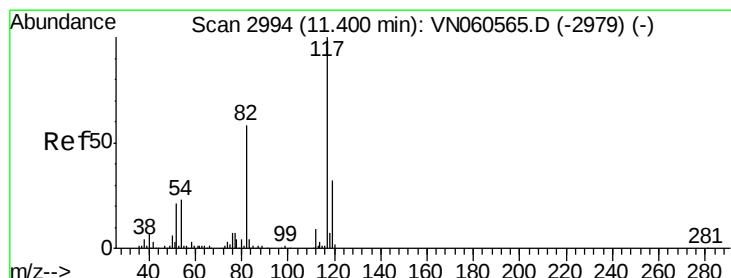
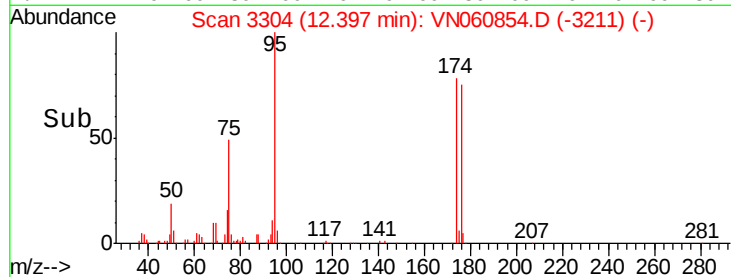
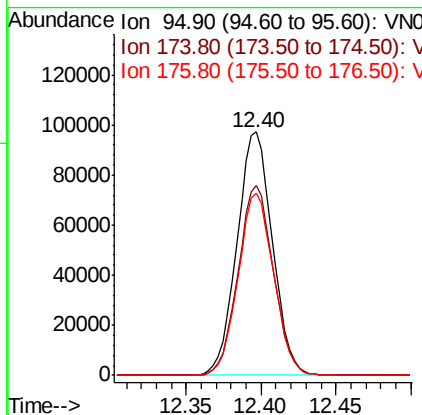
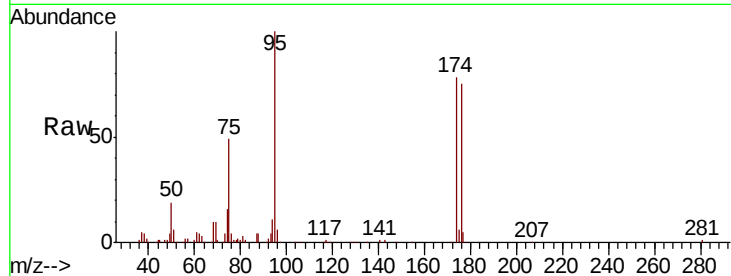
Time-->



#62
4-Bromofluorobenzene
Concen: 50.944 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

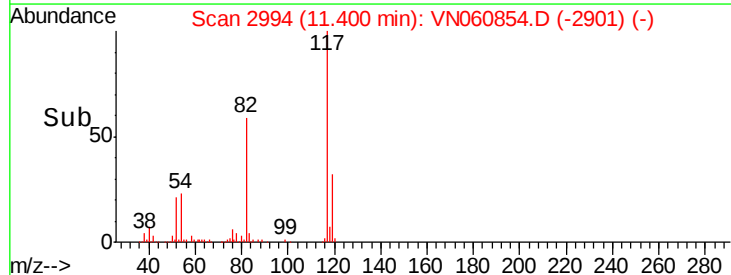
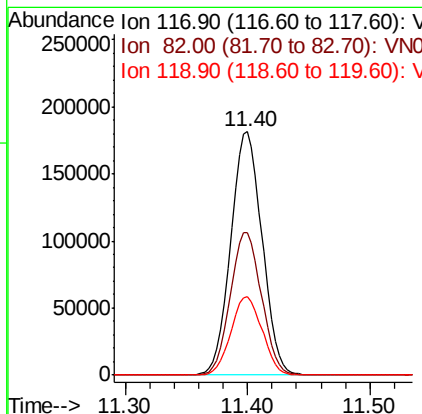
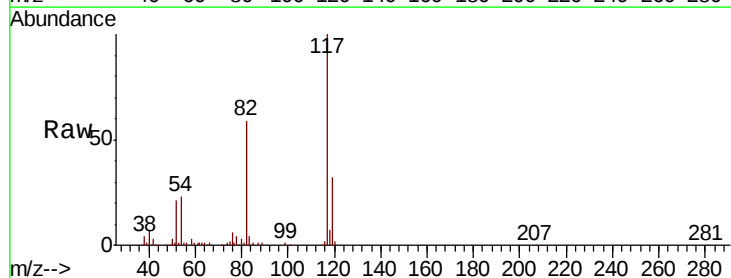
Instrument :
MSVOA_N
ClientSampled :
TP-3

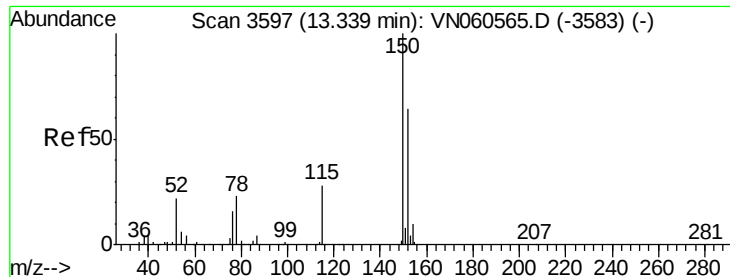
Tot Ion: 95 Resp: 160153
Ion Ratio Lower Upper
95 100
174 77.7 0.0 157.6
176 75.0 0.0 150.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060854.D
Acq: 6 Apr 2020 16:20

Tgt Ion: 117 Resp: 323053
Ion Ratio Lower Upper
117 100
82 58.6 46.7 70.1
119 32.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

Instrument :

MSVOA_N

ClientSampled :

TP-3

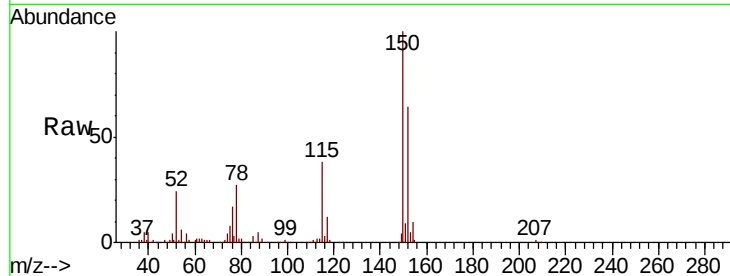
Tot Ion:152 Resp: 143402

Ion Ratio Lower Upper

152 100

115 59.9 30.2 90.6

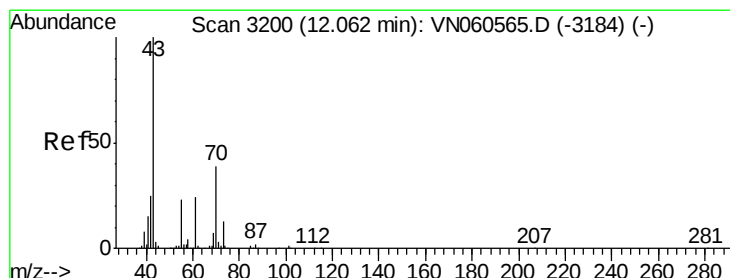
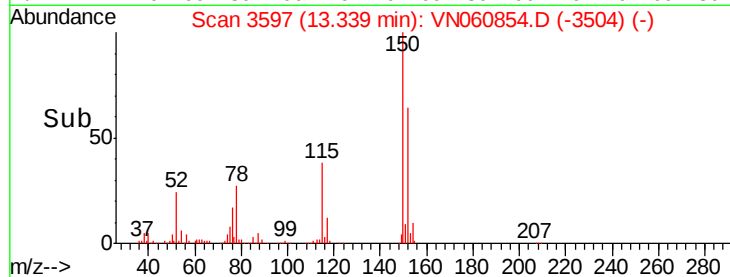
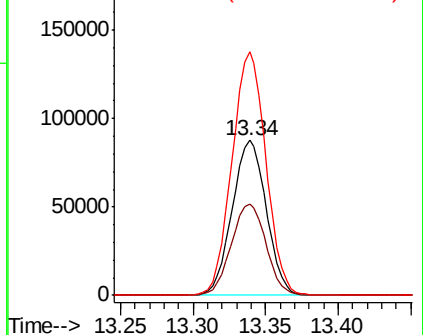
150 156.0 0.0 350.2



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: 0.501 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

Tgt Ion: 43 Resp: 2489

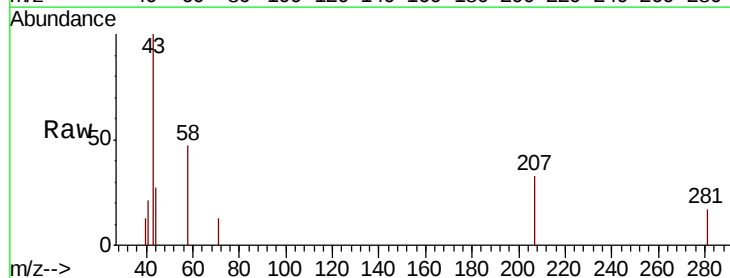
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

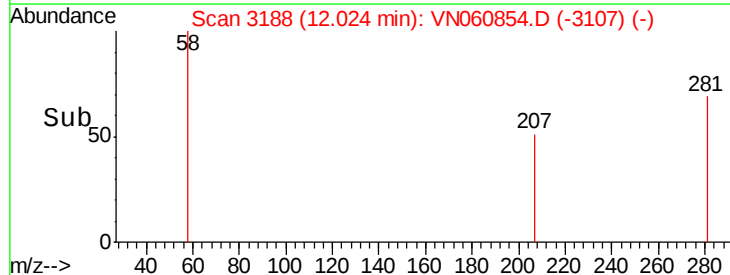
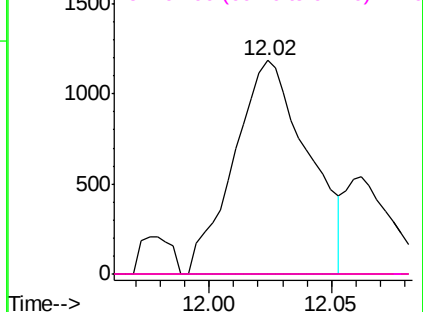


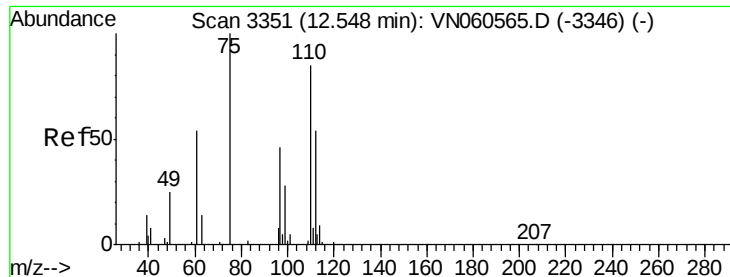
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.879 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

Instrument :

MSVOA_N

ClientSampled :

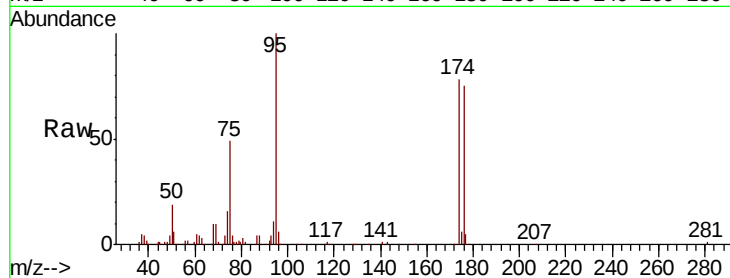
TP-3

Tot Ion: 75 Resp: 80077

Ion Ratio Lower Upper

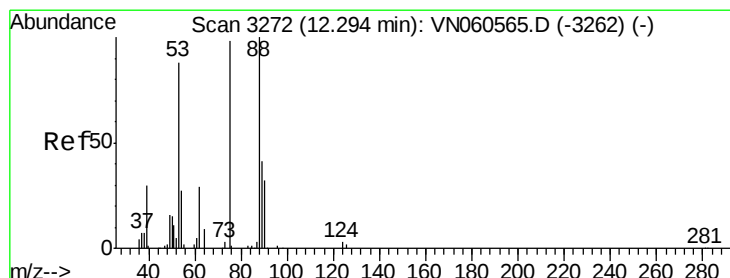
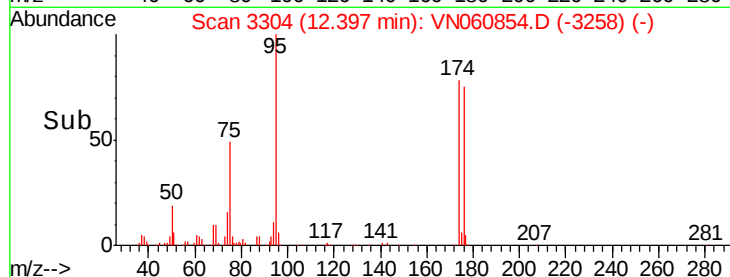
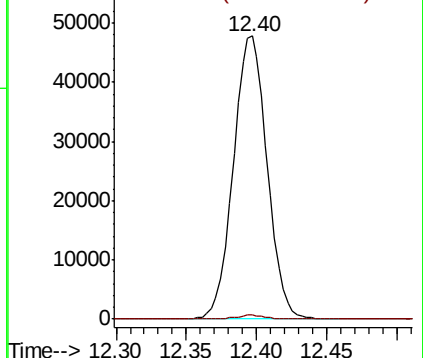
75 100

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: 66.464 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060854.D

Acq: 6 Apr 2020 16:20

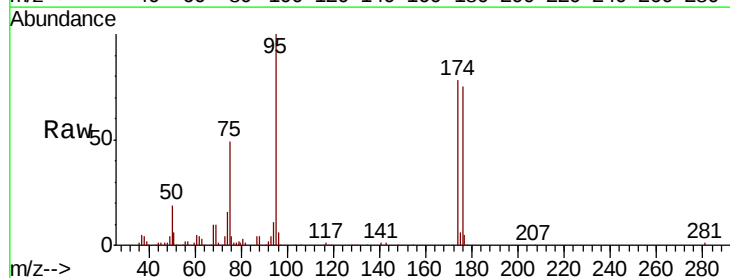
Tgt Ion: 75 Resp: 80077

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

