

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061021.D
 Acq On : 16 Apr 2020 18:57
 Operator : JC/MD
 Sample : L2284-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11-DA

Quant Time: Apr 17 04:00:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	163343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	278572	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	264925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	119635	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	111102	53.16	ug/l	0.00
Spiked Amount						
			Recovery	=	106.32%	
35) Dibromofluoromethane	7.56	113	83020	51.03	ug/l	0.00
Spiked Amount						
			Recovery	=	102.06%	
50) Toluene-d8	10.08	98	347239	56.49	ug/l	0.00
Spiked Amount						
			Recovery	=	112.98%	
62) 4-Bromofluorobenzene	12.39	95	132627	55.05	ug/l	0.00
Spiked Amount						
			Recovery	=	110.10%	

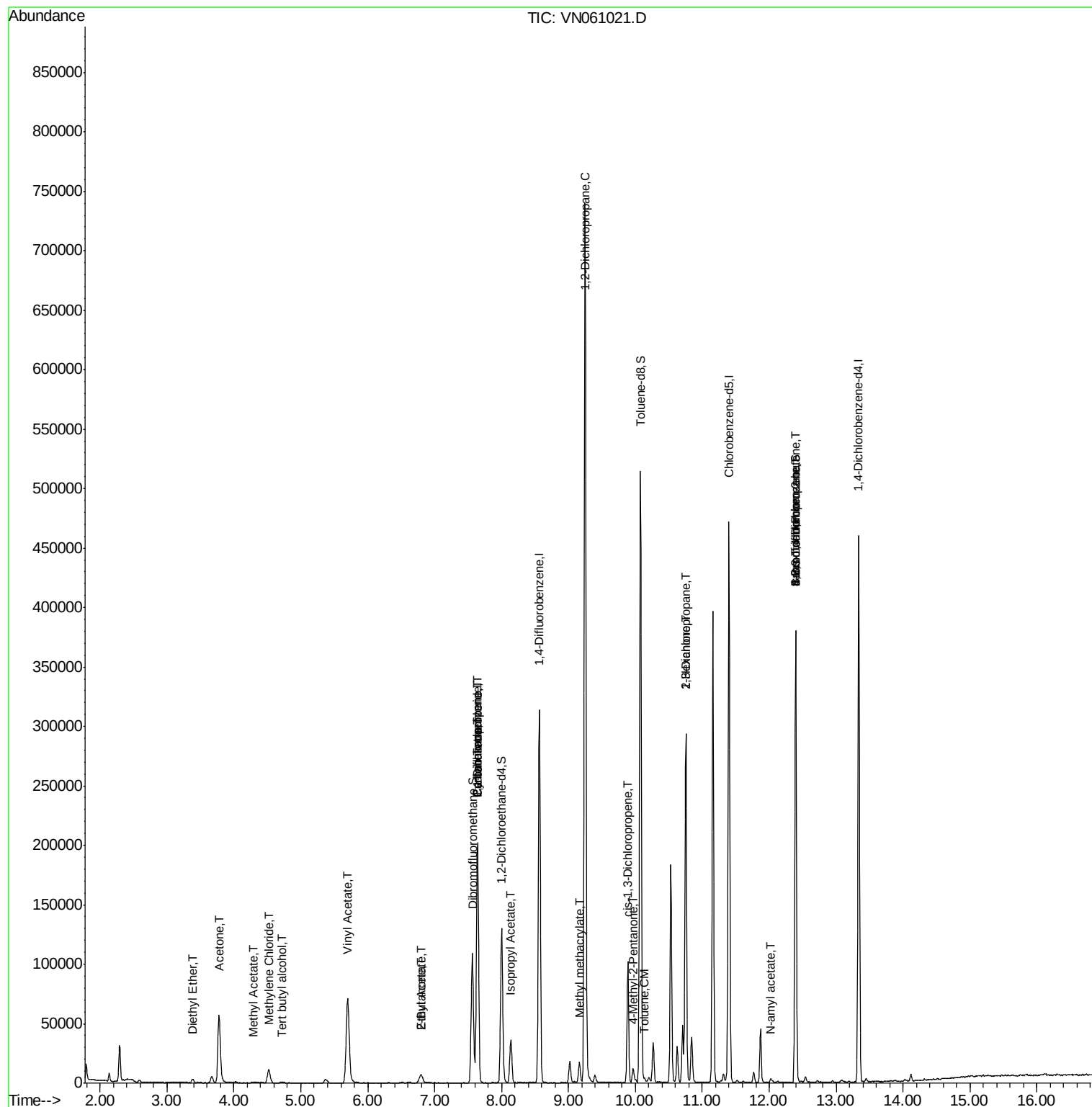
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	1516	1.273	ug/l	93
11) Tert butyl alcohol	4.72	59	2029	5.472	ug/l #	73
16) Acetone	3.78	43	99698	108.384	ug/l	97
18) Methyl Acetate	4.29	43	1694	0.587	ug/l #	54
20) Methylene Chloride	4.52	84	8600	4.282	ug/l	99
23) Vinyl Acetate	5.70	43	1640	0.298	ug/l #	75
25) 2-Butanone	6.80	43	13383	9.494	ug/l	96
31) Cyclohexane	7.64	56	3636	0.934	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12935	4.500	ug/l #	49
37) Ethyl Acetate	6.80	43	13383	4.288	ug/l #	69
38) Carbon Tetrachloride	7.64	117	16253	6.793	ug/l #	15
43) Isopropyl Acetate	8.14	43	44194	8.706	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	783	0.340	ug/l #	43
48) Methyl methacrylate	9.16	41	2856	1.273	ug/l #	14
51) 4-Methyl-2-Pentanone	9.97	43	8906	3.043	ug/l	94
52) Toluene	10.14	92	1459	0.285	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	18510	5.206	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2885	0.835	ug/l #	43
59) 2-Hexanone	10.75	43	46401	21.986	ug/l #	54
71) Bromoform	12.39	173	652	0.446	ug/l #	1
74) N-amyl acetate	12.02	43	3183	0.714	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	67593	25.686	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	67593	63.357	ug/l #	12

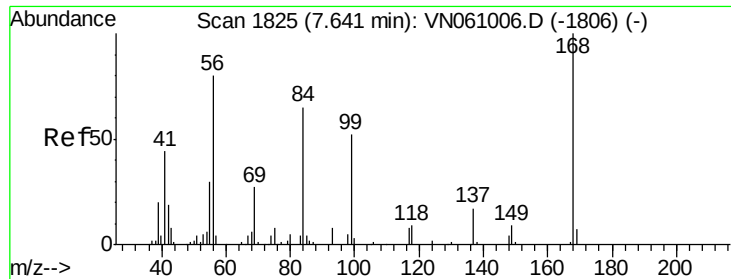
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 17 03:49:39 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

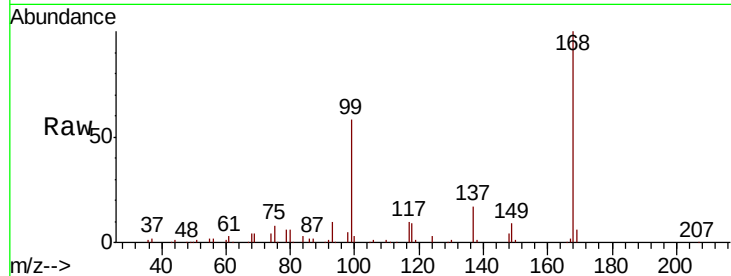
TP-11-DA

Tot Ion:168 Resp: 163343

Ion Ratio Lower Upper

168 100

99 58.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN061006.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN061006.D (-1806) (-)

7.64

60000

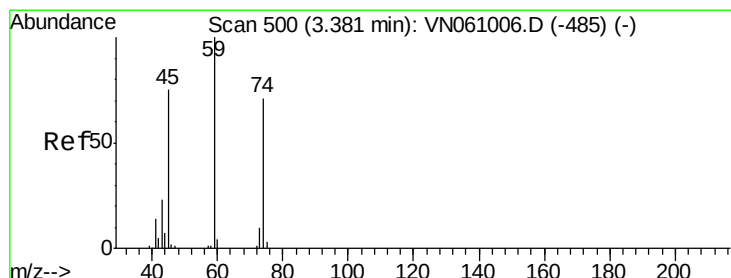
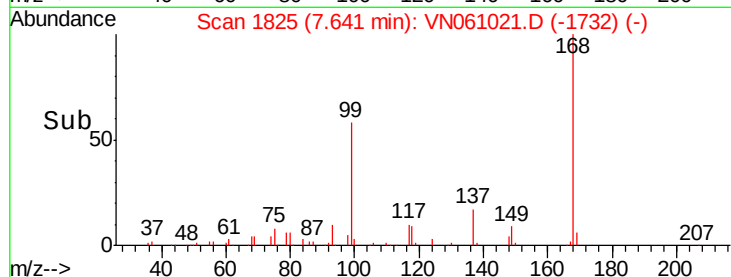
40000

20000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 1.273 ug/l

RT: 3.38 min Scan# 501

Delta R.T. 0.00 min

Lab File: VN061021.D

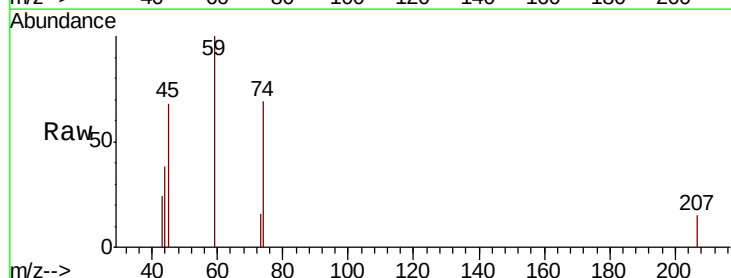
Acq: 16 Apr 2020 18:57

Tgt Ion: 74 Resp: 1516

Ion Ratio Lower Upper

74 100

45 113.6 52.9 158.8



Abundance Ion 74.00 (73.70 to 74.70): VN061006.D (-485) (-)

Ion 45.00 (44.70 to 45.70): VN061006.D (-485) (-)

3.38

800

600

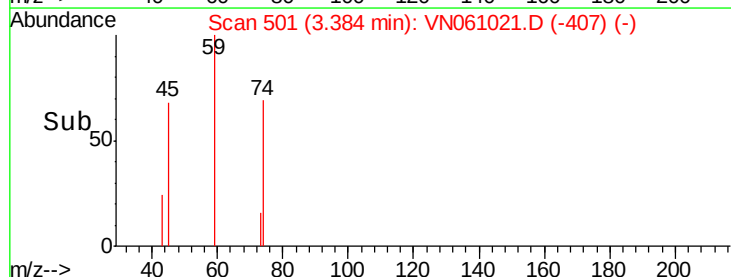
400

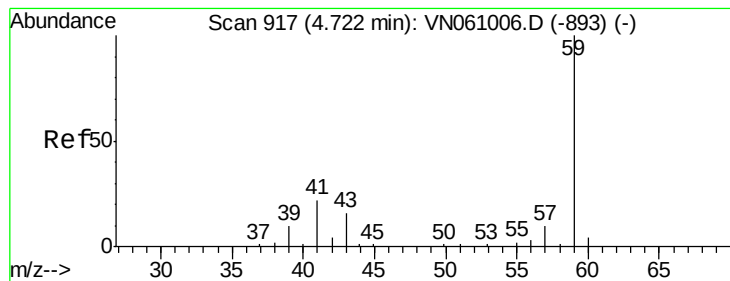
200

0

3.35 3.40

Time-->



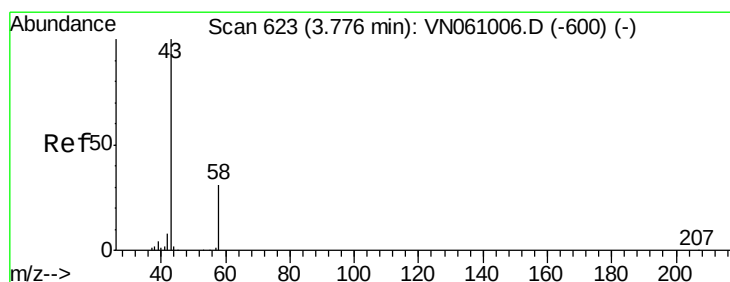
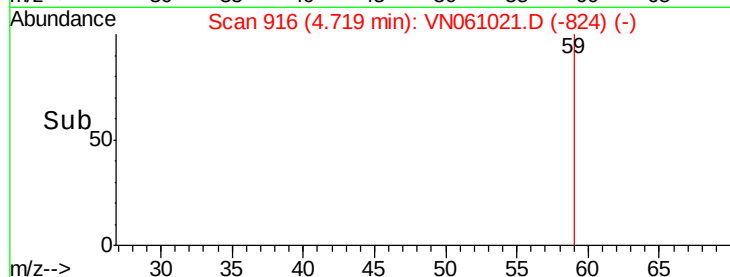
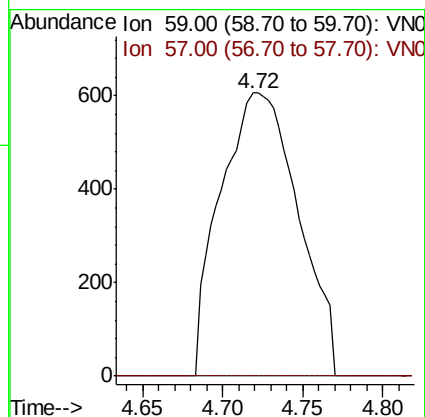
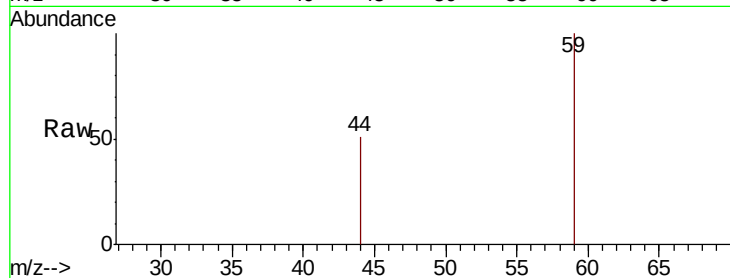


#11

Tert butyl alcohol
 Concen: 5.472 ug/l
 RT: 4.72 min Scan# 916
 Delta R.T. -0.00 min
 Lab File: VN061021.D
 Acq: 16 Apr 2020 18:57

Instrument :
 MSVOA_N
 ClientSampled :
 TP-11-DA

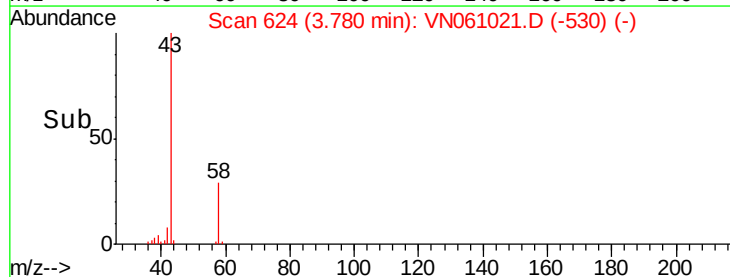
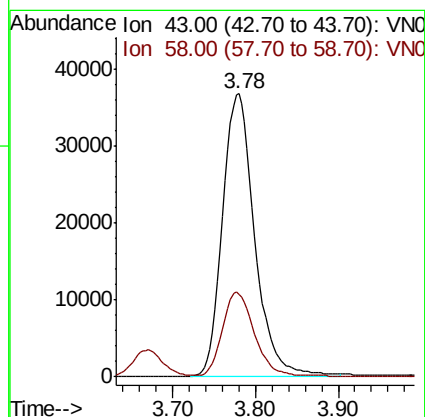
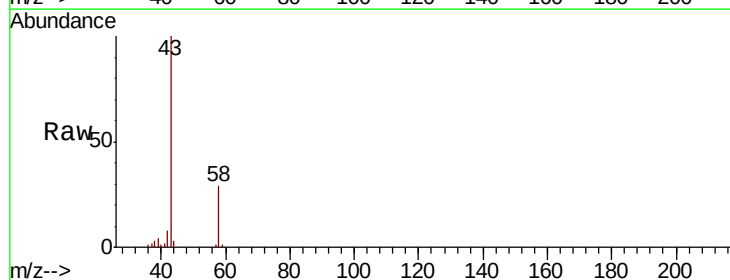
Tot Ion: 59 Resp: 2029
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

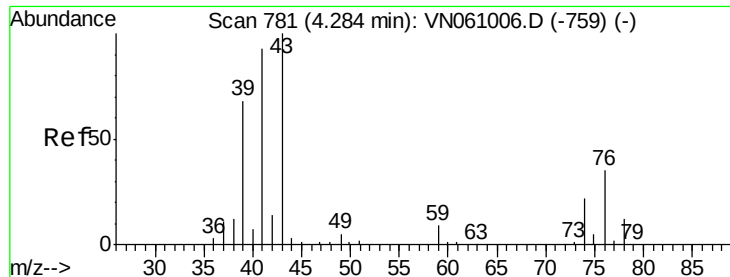


#16

Acetone
 Concen: 108.384 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.00 min
 Lab File: VN061021.D
 Acq: 16 Apr 2020 18:57

Tgt Ion: 43 Resp: 99698
 Ion Ratio Lower Upper
 43 100
 58 29.3 24.6 37.0

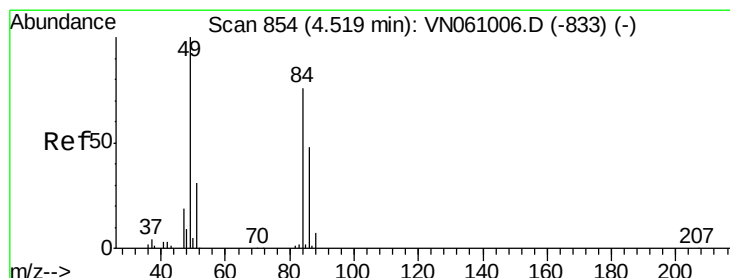
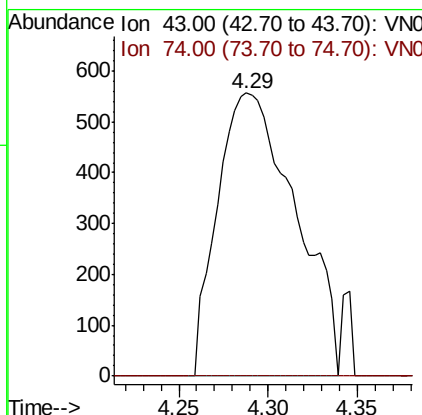
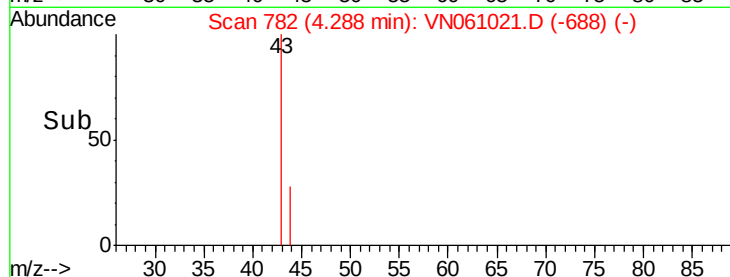
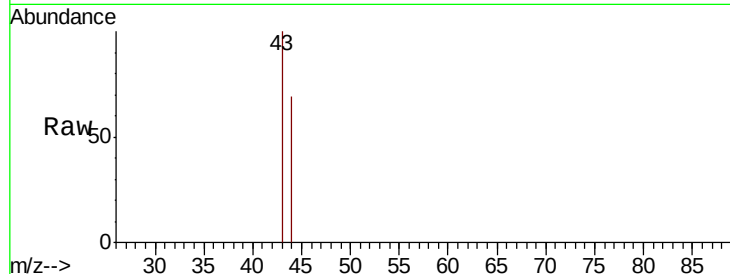




#18
Methyl Acetate
Concen: 0.587 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN061021.D
Acq: 16 Apr 2020 18:57

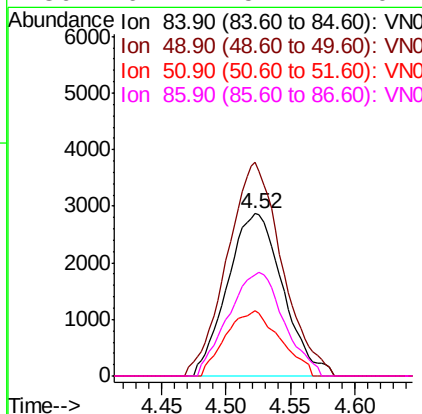
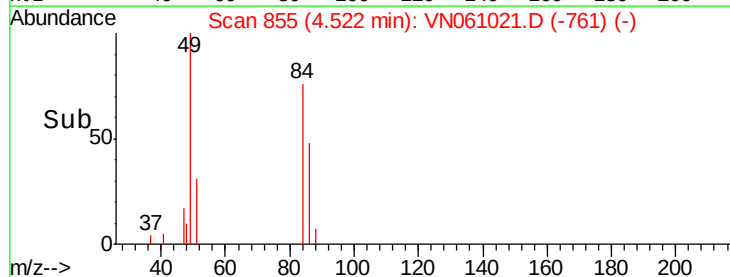
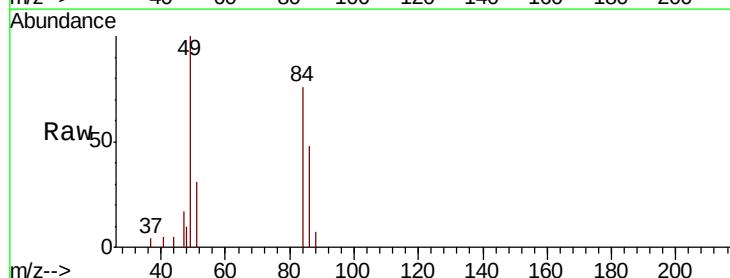
Instrument :
MSVOA_N
ClientSampleId :
TP-11-DA

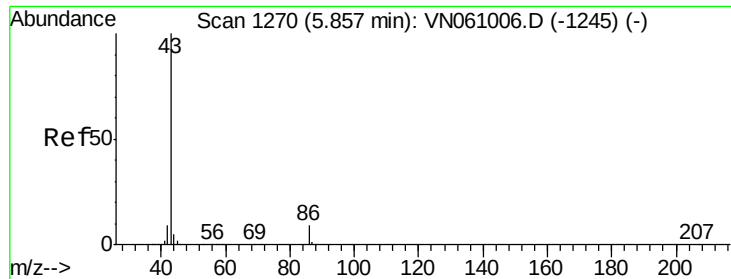
Tot Ion: 43 Resp: 1694
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#



#20
Methylene Chloride
Concen: 4.282 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061021.D
Acq: 16 Apr 2020 18:57

Tgt Ion: 84 Resp: 8600
Ion Ratio Lower Upper
84 100
49 131.8 105.8 158.6
51 40.2 32.4 48.6
86 62.7 51.1 76.7





#23

Vinyl Acetate

Concen: 0.298 ug/l

RT: 5.70 min Scan# 1221

Delta R.T. -0.16 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

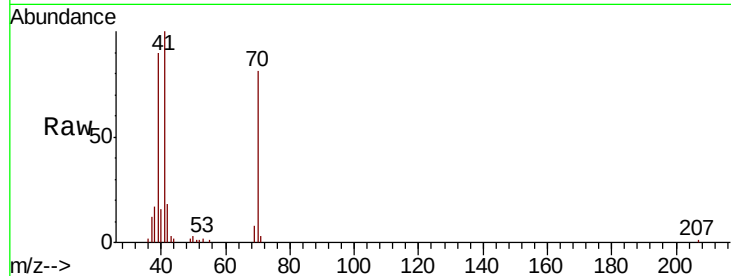
TP-11-DA

Tot Ion: 43 Resp: 1640

Ion Ratio Lower Upper

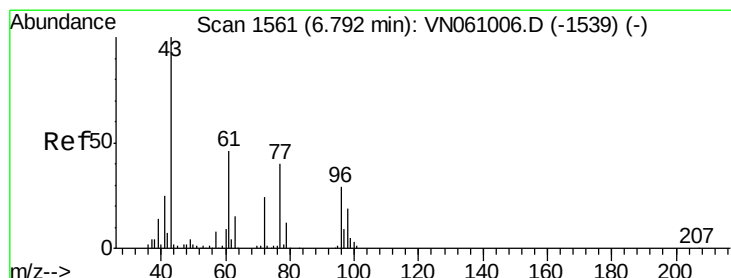
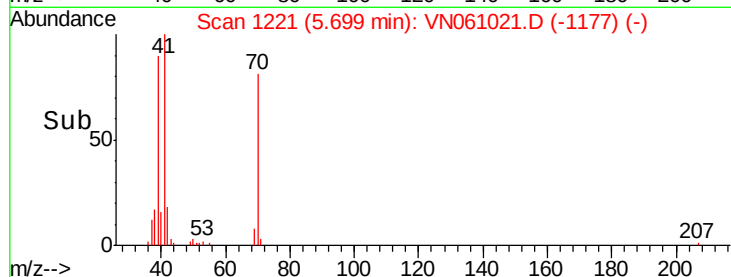
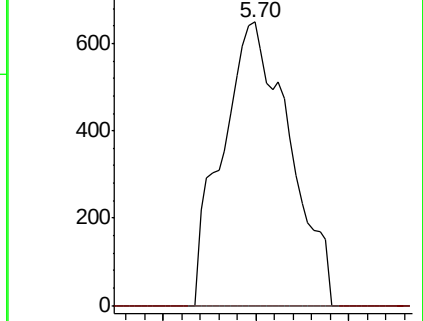
43 100

86 0.0 7.3 10.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#25

2-Butanone

Concen: 9.494 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.01 min

Lab File: VN061021.D

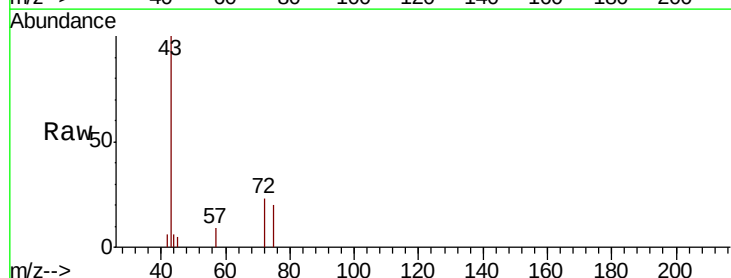
Acq: 16 Apr 2020 18:57

Tgt Ion: 43 Resp: 13383

Ion Ratio Lower Upper

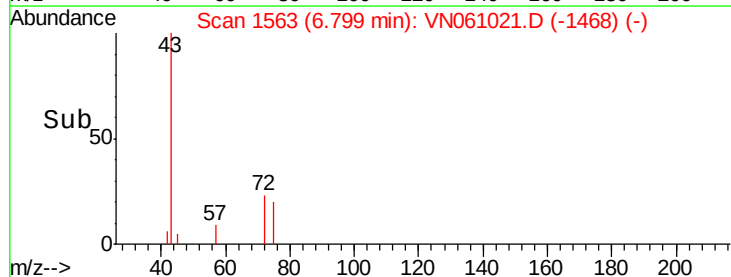
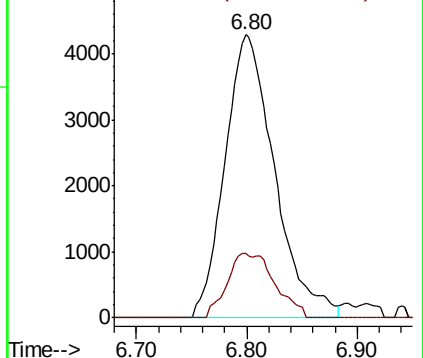
43 100

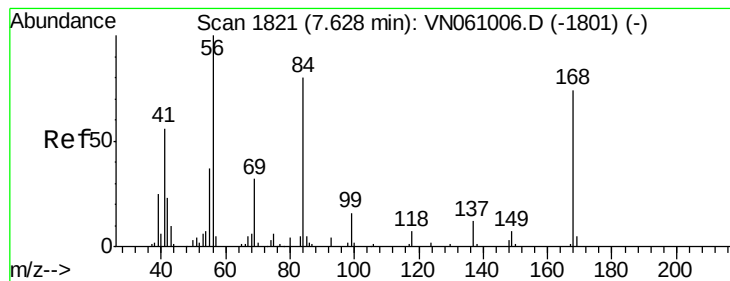
72 22.7 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.934 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

TP-11-DA

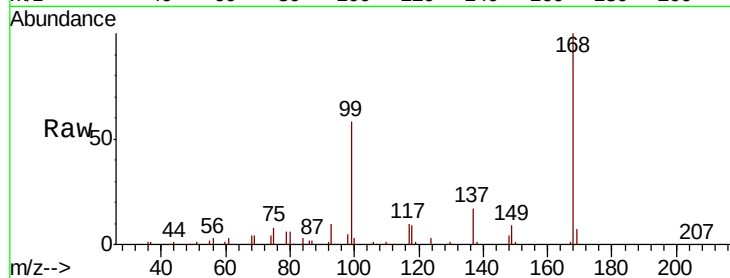
Tot Ion: 56 Resp: 3636

Ion Ratio Lower Upper

56 100

69 164.7 25.6 38.4#

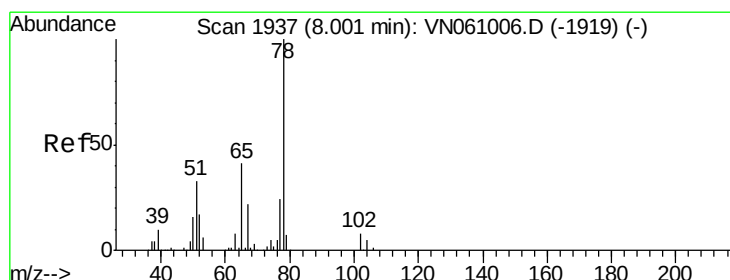
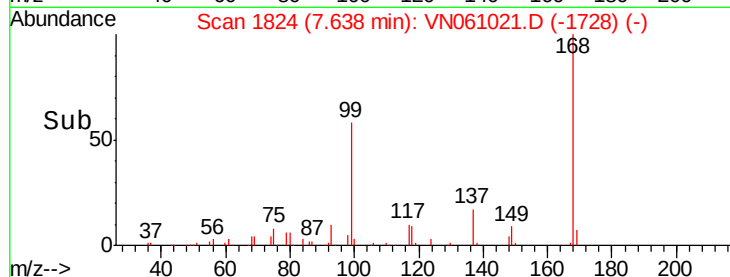
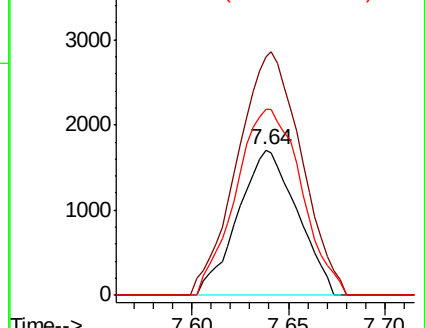
84 128.5 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VN061006.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN061006.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN061006.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.162 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061021.D

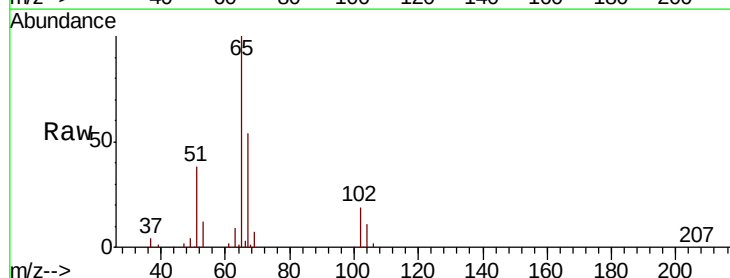
Acq: 16 Apr 2020 18:57

Tgt Ion: 65 Resp: 111102

Ion Ratio Lower Upper

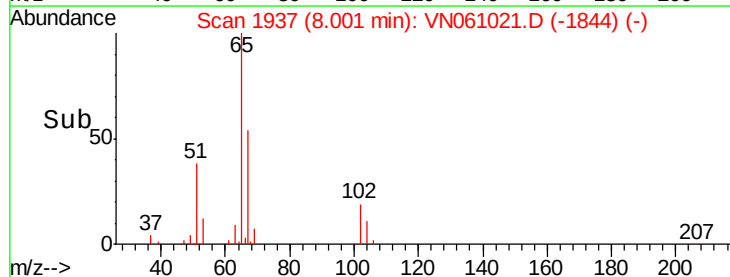
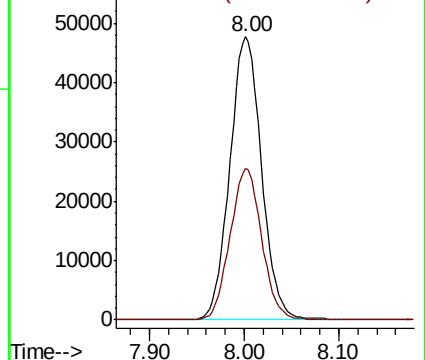
65 100

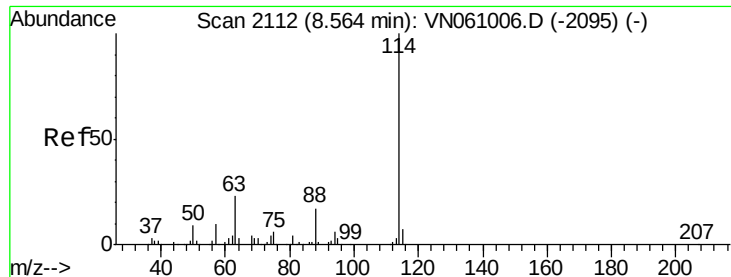
67 53.2 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN061006.D (-1919) (-)

Ion 66.90 (66.60 to 67.60): VN061006.D (-1919) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

TP-11-DA

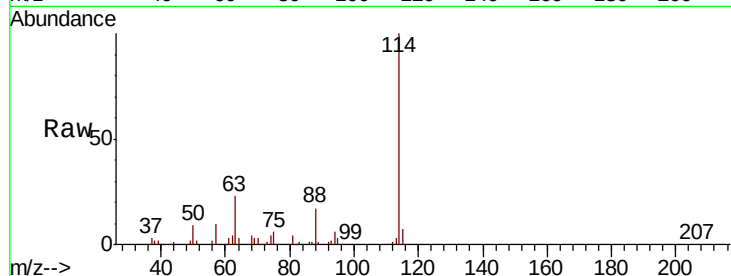
Tot Ion:114 Resp: 278572

Ion Ratio Lower Upper

114 100

63 22.5 0.0 46.2

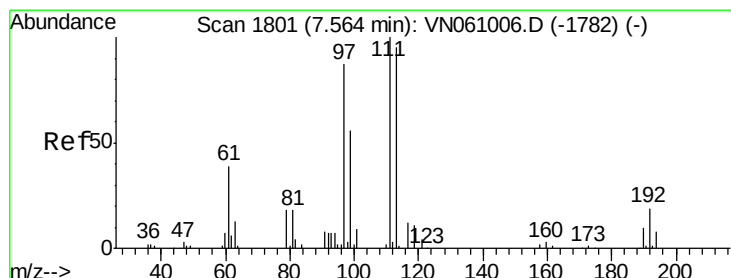
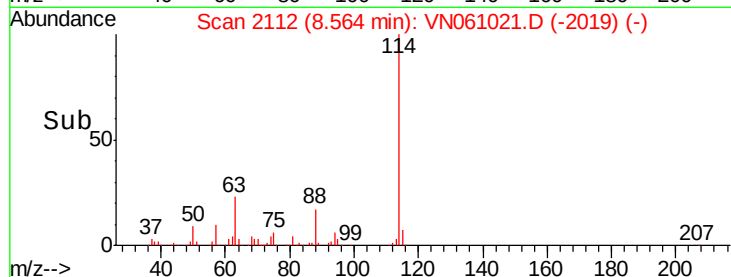
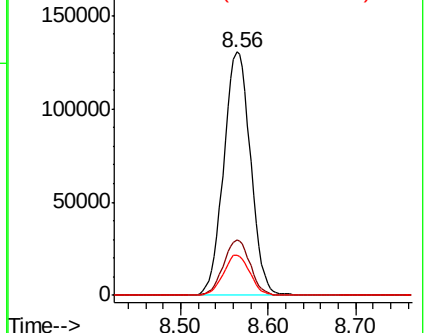
88 16.6 0.0 33.4



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: 51.032 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

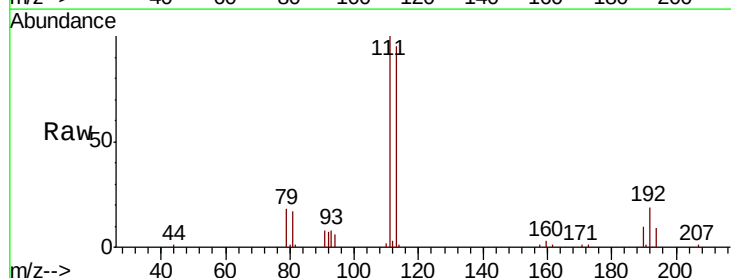
Tgt Ion:113 Resp: 83020

Ion Ratio Lower Upper

113 100

111 103.7 83.4 125.2

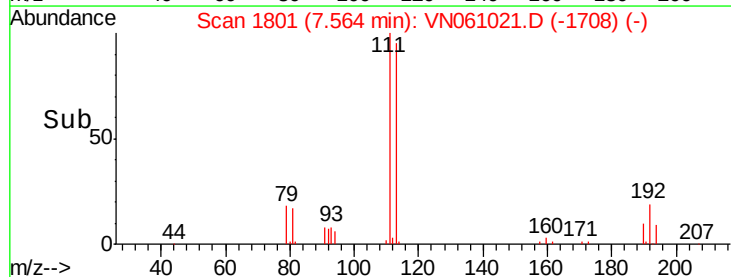
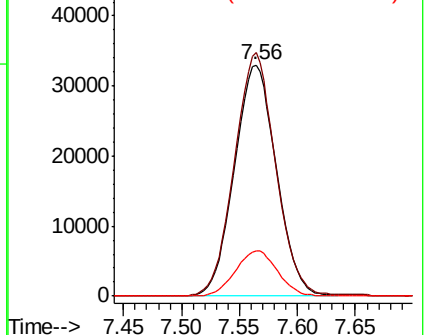
192 19.5 15.5 23.3

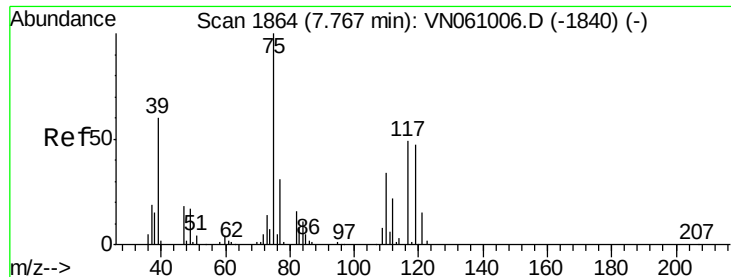


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

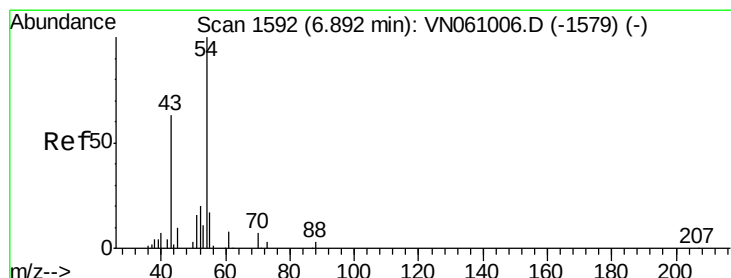
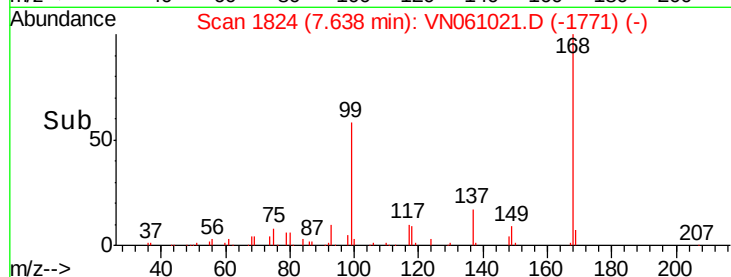
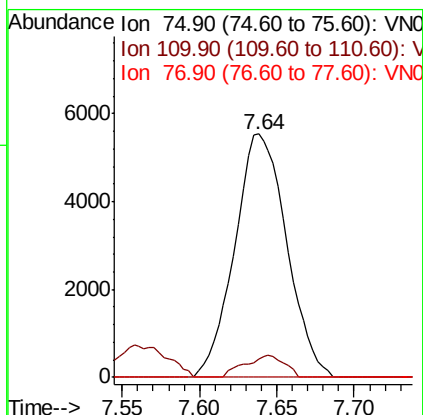
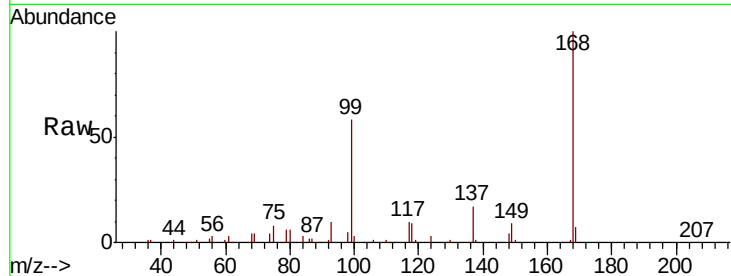




#36
 1,1-Dichloropropene
 Concen: 4.500 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061021.D
 Acq: 16 Apr 2020 18:57

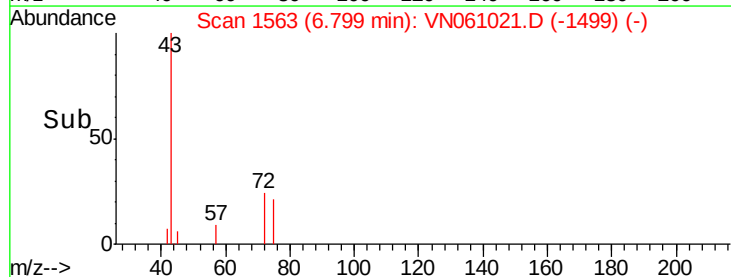
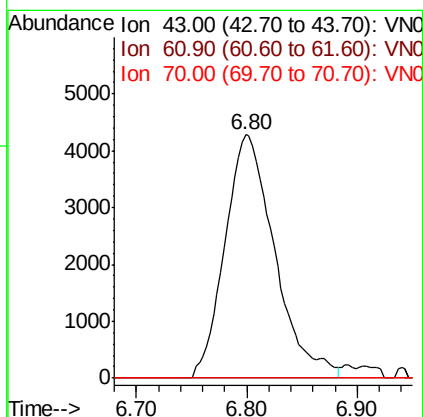
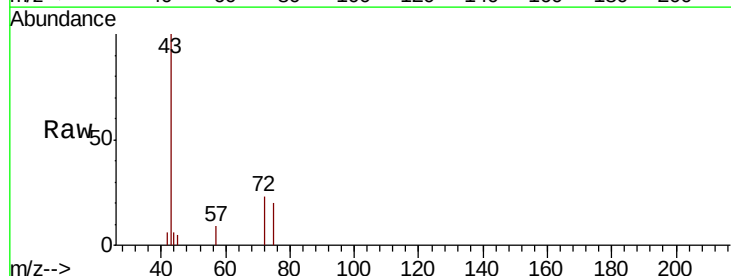
Instrument :
 MSVOA_N
 ClientSampled :
 TP-11-DA

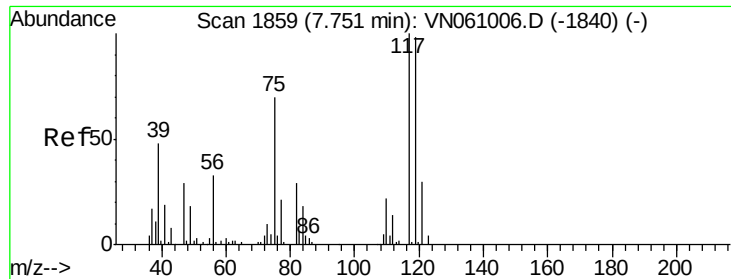
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.8	16.8	50.3#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 4.288 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.09 min
 Lab File: VN061021.D
 Acq: 16 Apr 2020 18:57

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	7.7	11.5#





#38

Carbon Tetrachloride

Concen: 6.793 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

TP-11-DA

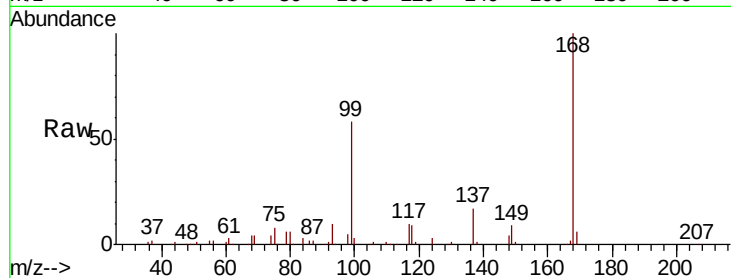
Tot Ion:117 Resp: 16253

Ion Ratio Lower Upper

117 100

119 5.2 78.1 117.1#

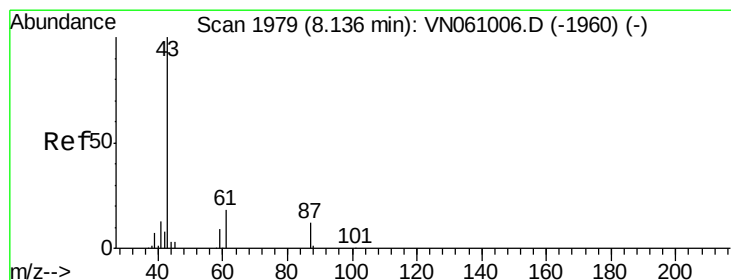
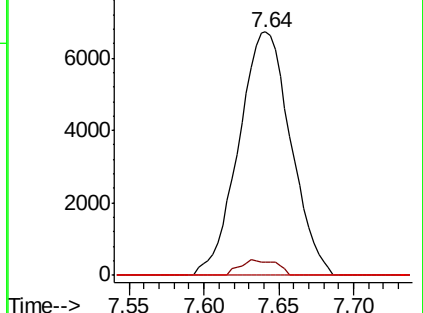
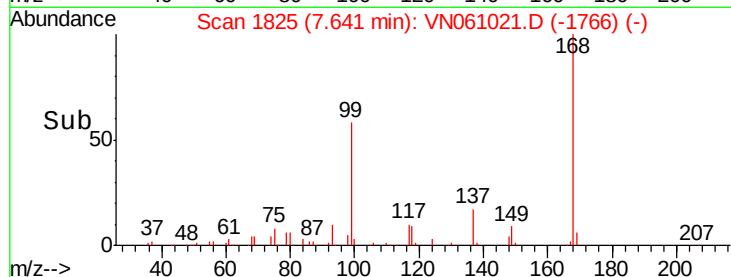
121 0.0 24.0 36.0#



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: 8.706 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

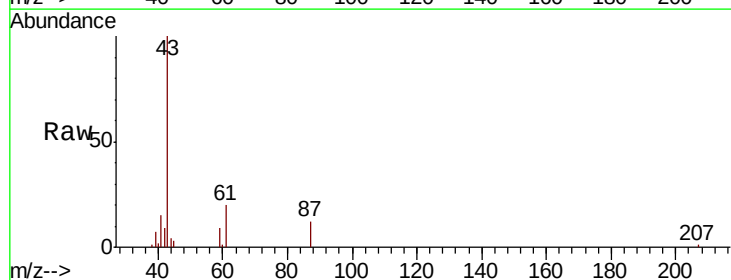
Tgt Ion: 43 Resp: 44194

Ion Ratio Lower Upper

43 100

61 19.8 20.3 30.5#

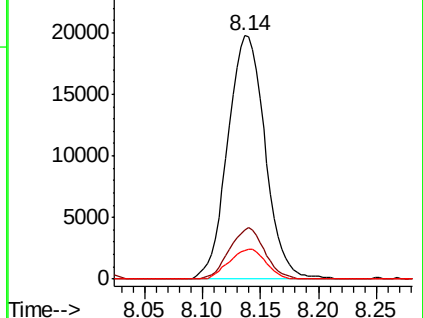
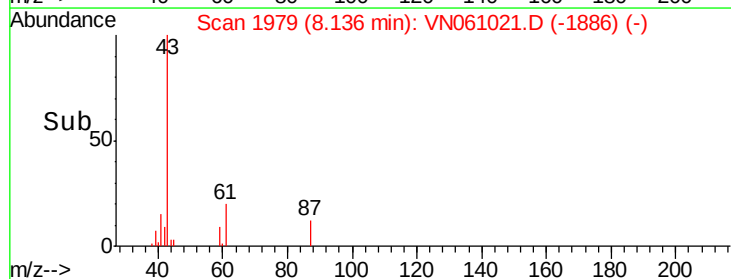
87 12.0 9.4 14.2

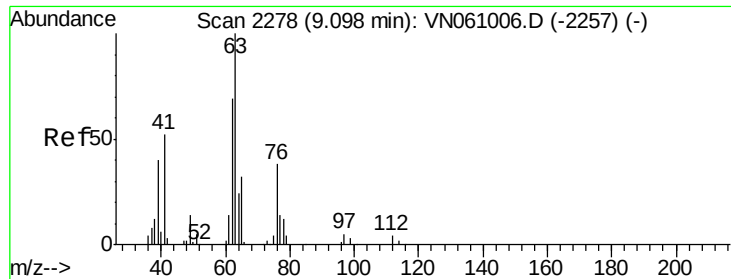


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.340 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

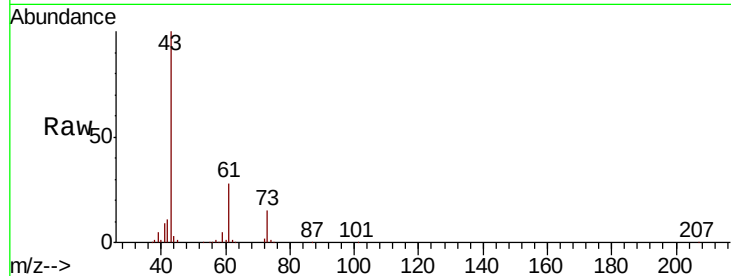
TP-11-DA

Tot Ion: 63 Resp: 783

Ion Ratio Lower Upper

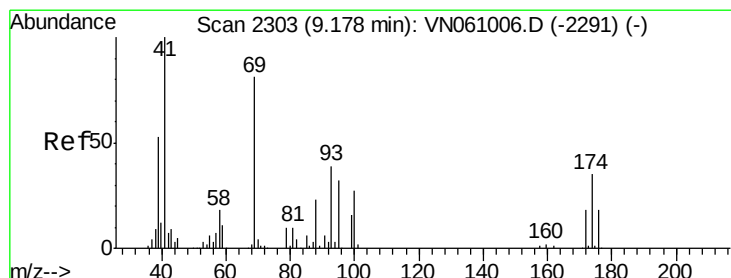
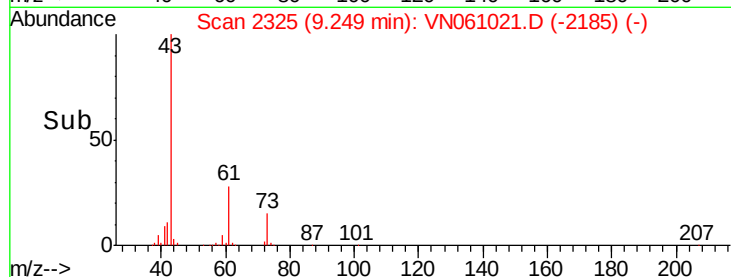
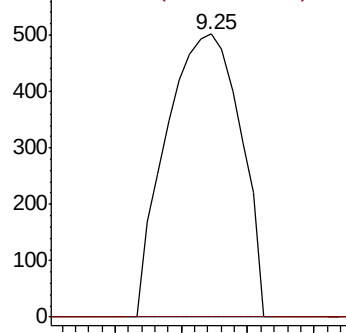
63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.273 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.02 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

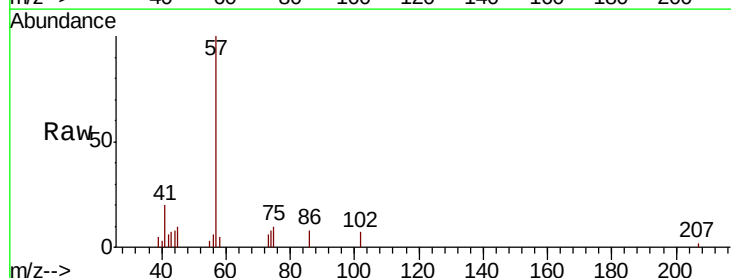
Tgt Ion: 41 Resp: 2856

Ion Ratio Lower Upper

41 100

69 0.0 65.3 97.9#

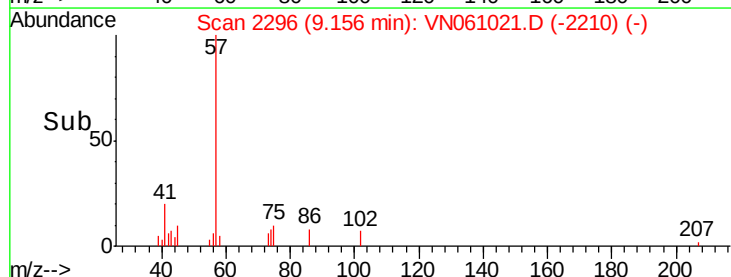
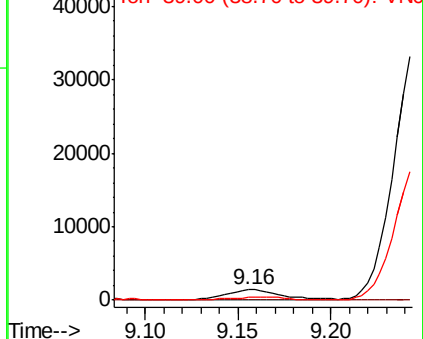
39 0.0 45.2 67.8#

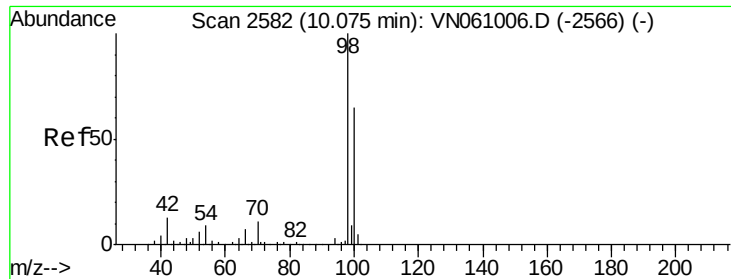


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 56.485 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

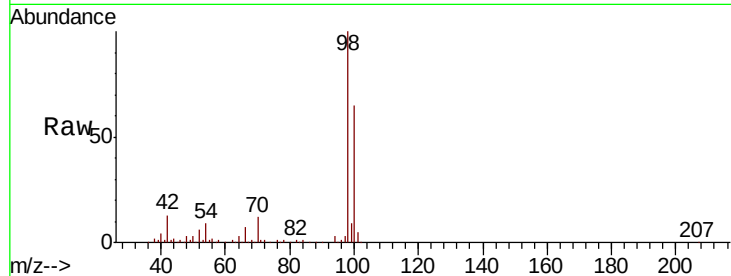
TP-11-DA

Tot Ion: 98 Resp: 347239

Ion Ratio Lower Upper

98 100

100 64.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN061006.D (-2566) (-)

Ion 100.00 (99.70 to 100.70): VN061006.D (-2566) (-)

10.08

200000

150000

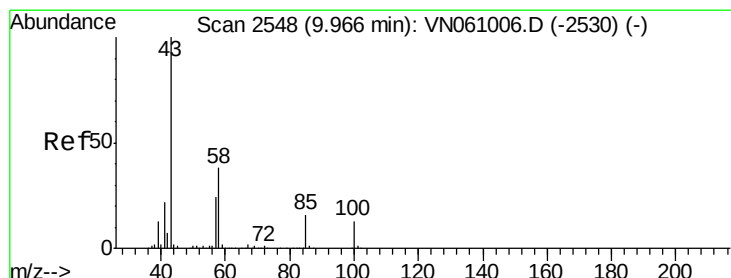
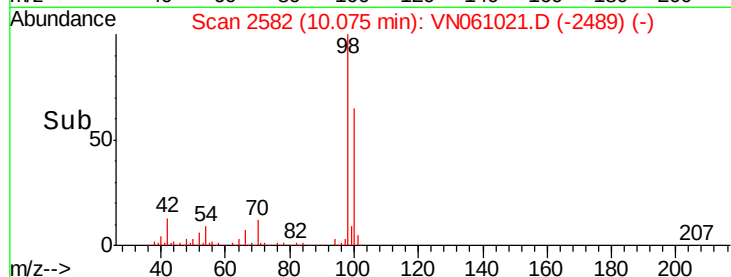
100000

50000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 3.043 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061021.D

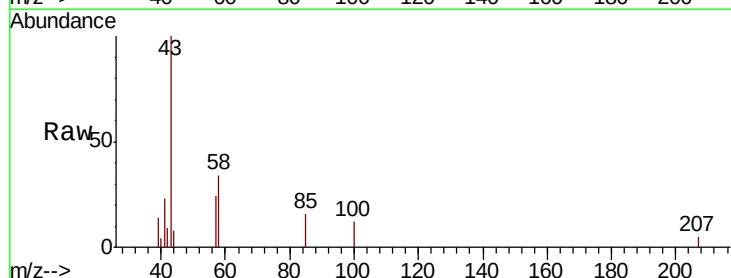
Acq: 16 Apr 2020 18:57

Tgt Ion: 43 Resp: 8906

Ion Ratio Lower Upper

43 100

58 34.1 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-2530) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-2530) (-)

15000

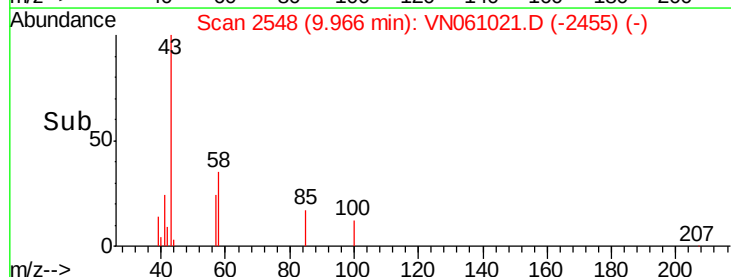
10000

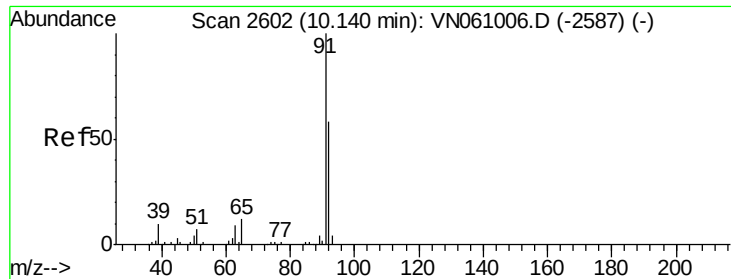
5000

0

Time-->

9.90 9.95 10.00





#52

Toluene

Concen: 0.285 ug/l

RT: 10.14 min Scan# 2601

Delta R.T. -0.00 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampled :

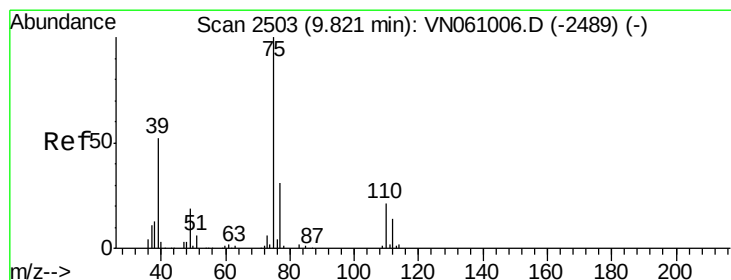
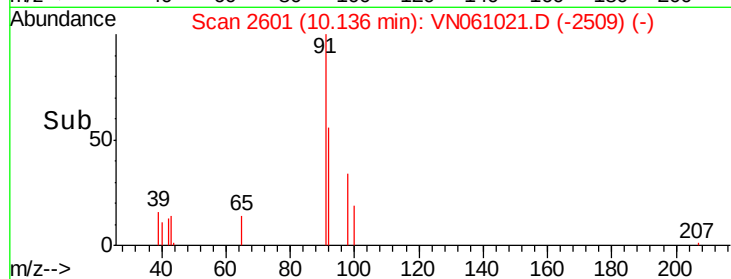
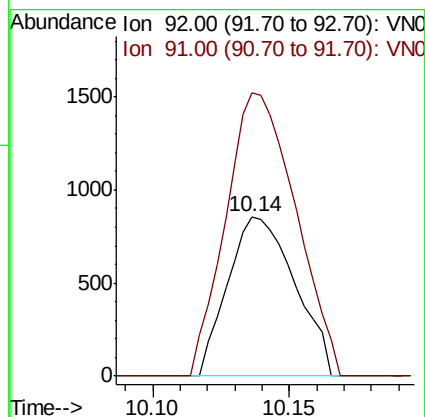
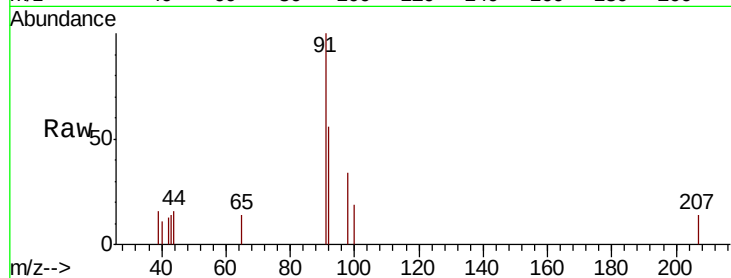
TP-11-DA

Tot Ion: 92 Resp: 1459

Ion Ratio Lower Upper

92 100

91 185.4 137.7 206.5



#54

cis-1,3-Dichloropropene

Concen: 5.206 ug/l

RT: 9.89 min Scan# 2523

Delta R.T. 0.06 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

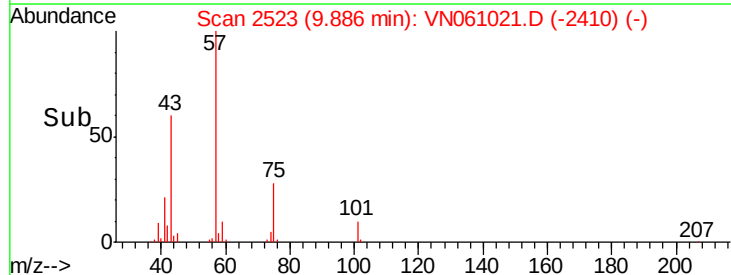
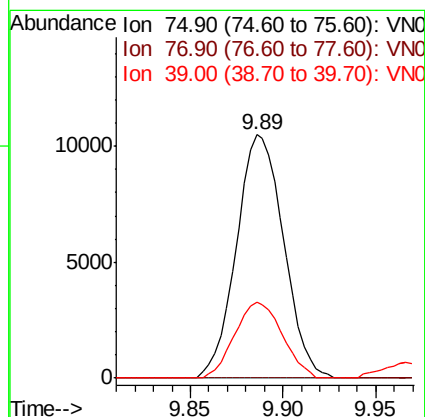
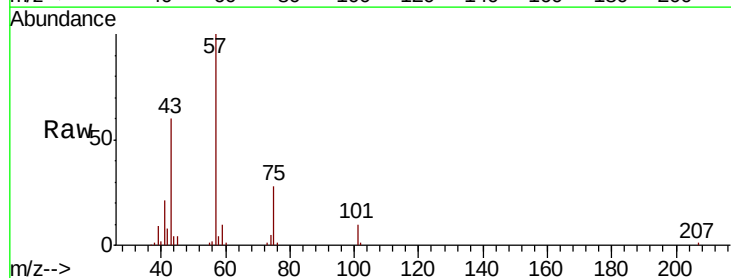
Tgt Ion: 75 Resp: 18510

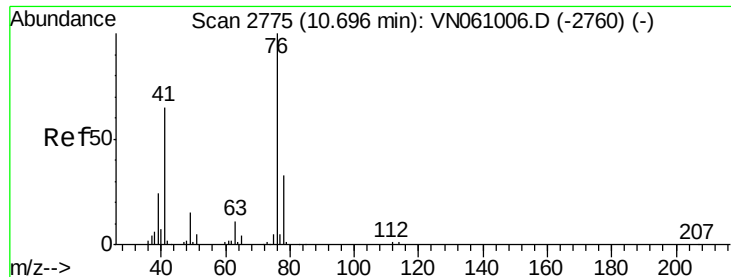
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 31.1 41.4 62.2#

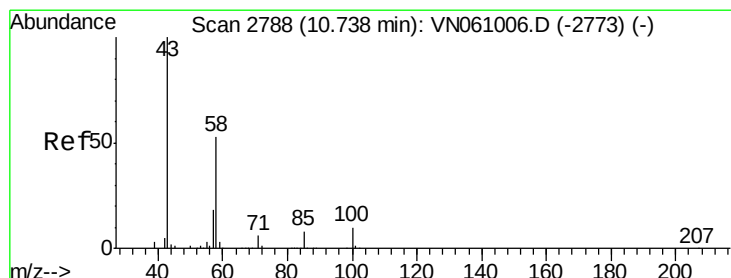
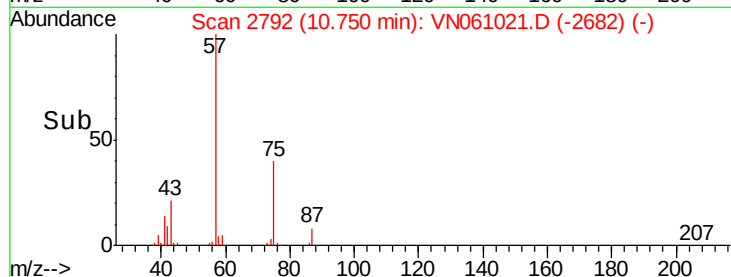
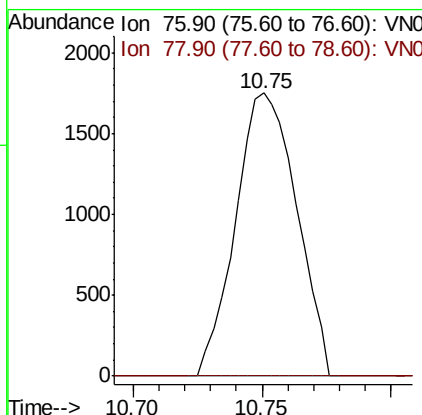
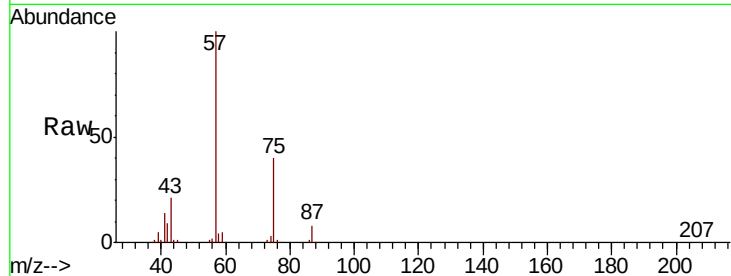




#57
 1,3-Dichloropropane
 Concen: 0.835 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN061021.D
 Acq: 16 Apr 2020 18:57

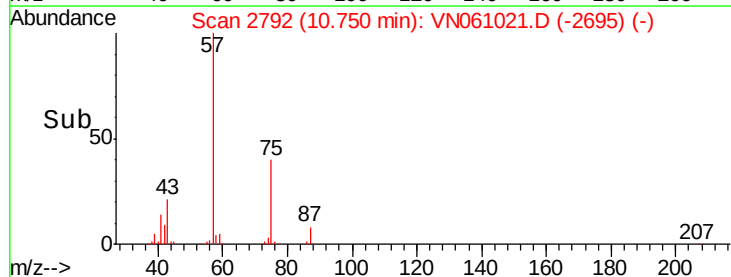
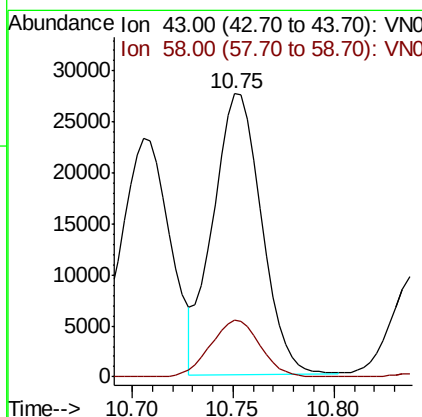
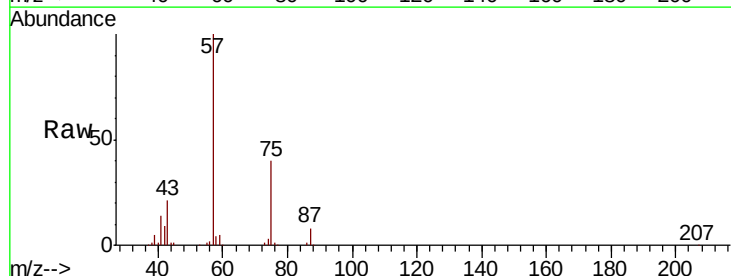
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11-DA

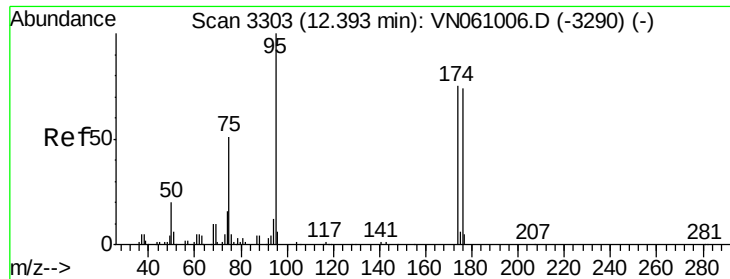
Tot Ion: 76 Resp: 2885
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 21.986 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.01 min
 Lab File: VN061021.D
 Acq: 16 Apr 2020 18:57

Tgt Ion: 43 Resp: 46401
 Ion Ratio Lower Upper
 43 100
 58 20.5 26.4 79.0#

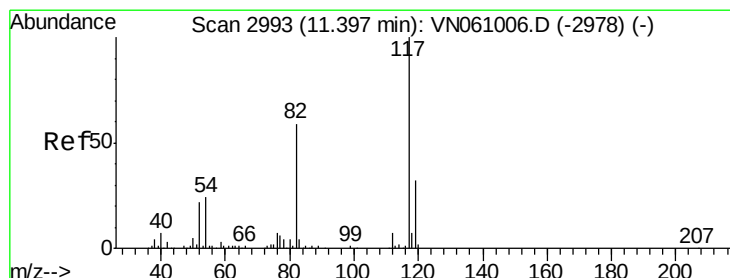
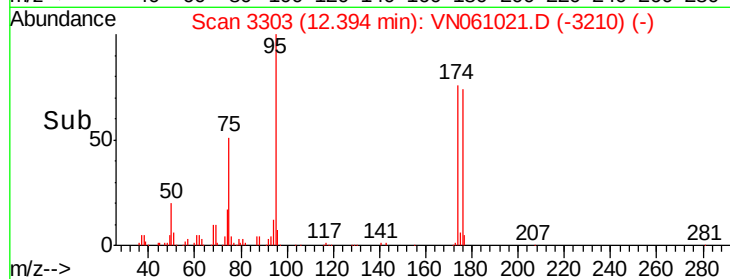
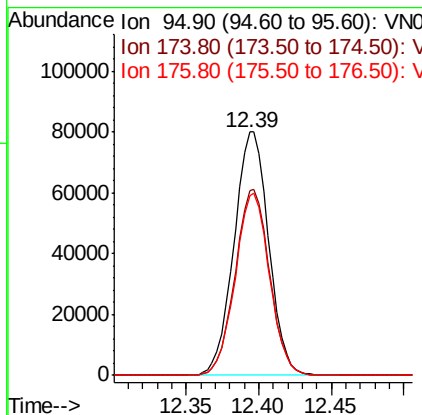
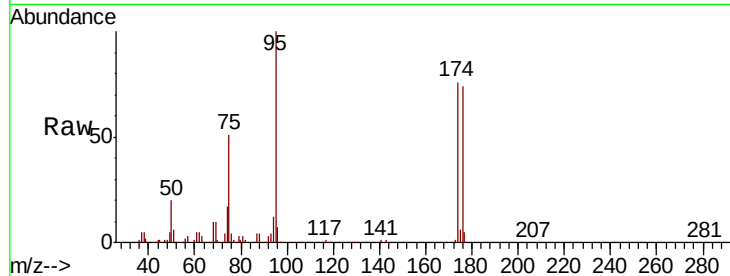




#62
4-Bromofluorobenzene
Concen: 55.046 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061021.D
Acq: 16 Apr 2020 18:57

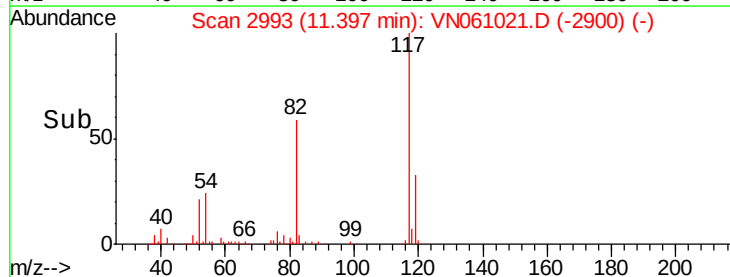
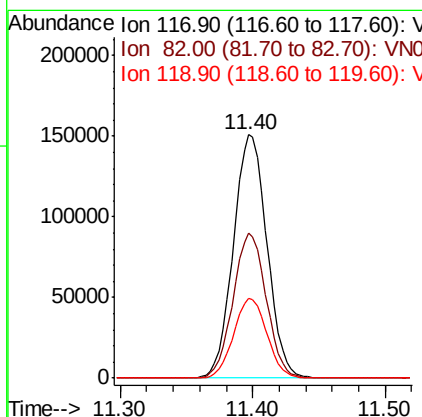
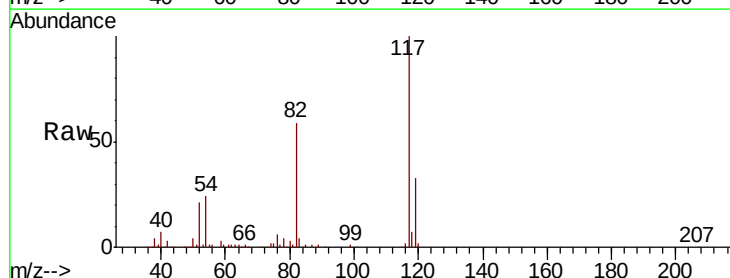
Instrument :
MSVOA_N
ClientSampleId :
TP-11-DA

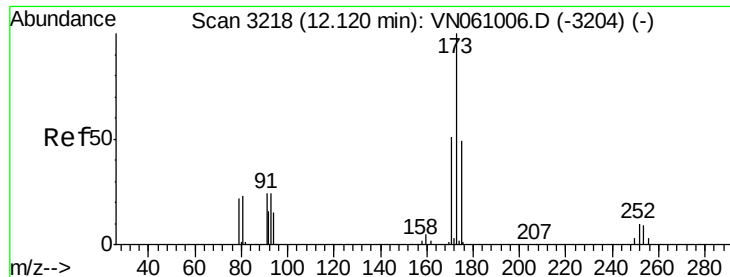
Tot Ion: 95 Resp: 132627
Ion Ratio Lower Upper
95 100
174 76.0 0.0 151.2
176 74.0 0.0 148.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061021.D
Acq: 16 Apr 2020 18:57

Tgt Ion: 117 Resp: 264925
Ion Ratio Lower Upper
117 100
82 59.3 47.1 70.7
119 32.7 25.7 38.5





#71

Bromoform

Concen: 0.446 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

TP-11-DA

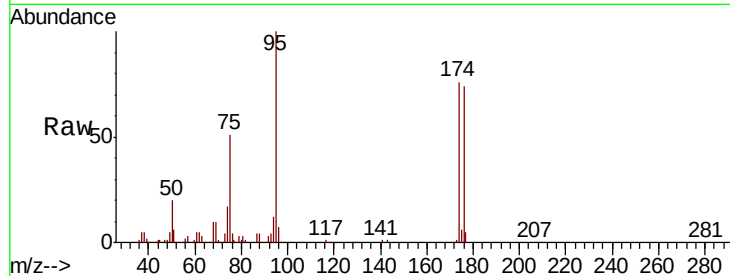
Tot Ion:173 Resp: 652

Ion Ratio Lower Upper

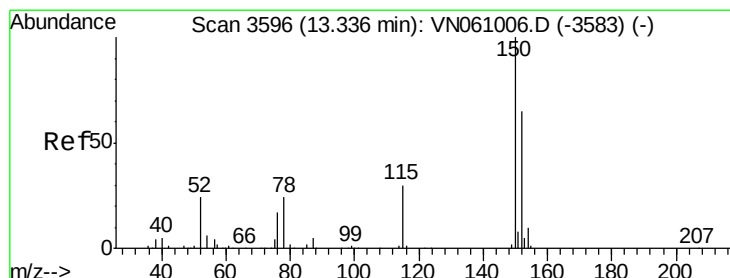
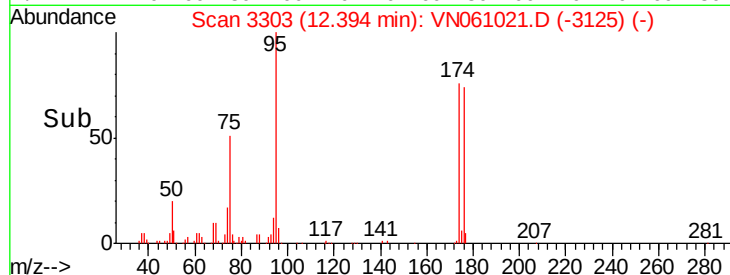
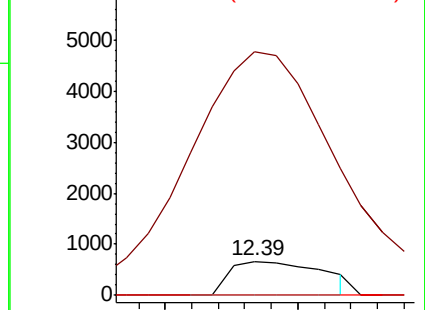
173 100

175 1031.3 24.5 73.5#

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# 3596

Delta R.T. 0.00 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

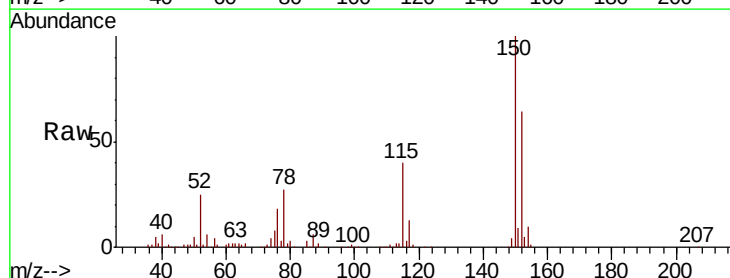
Tgt Ion:152 Resp: 119635

Ion Ratio Lower Upper

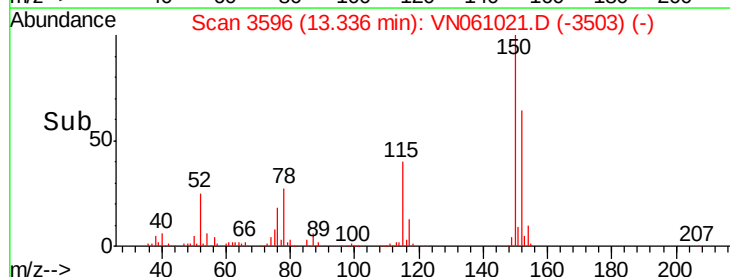
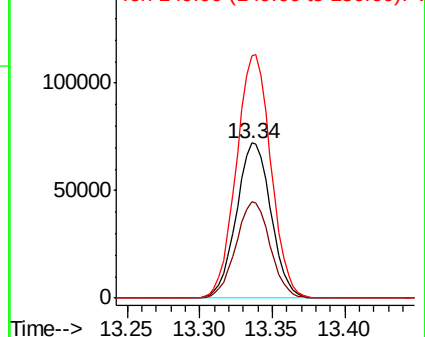
152 100

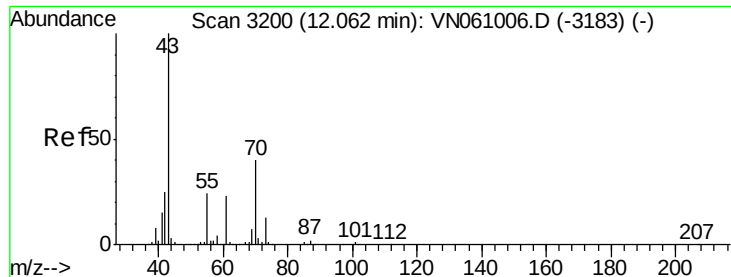
115 61.2 30.8 92.4

150 157.0 0.0 349.0



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

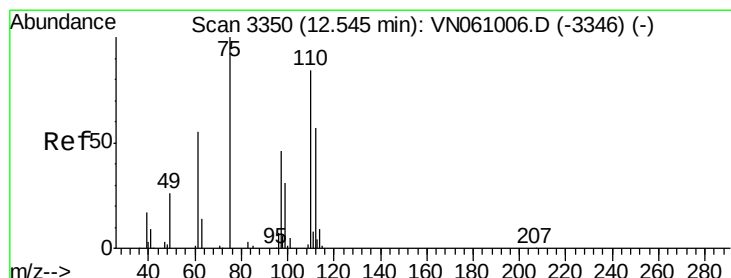
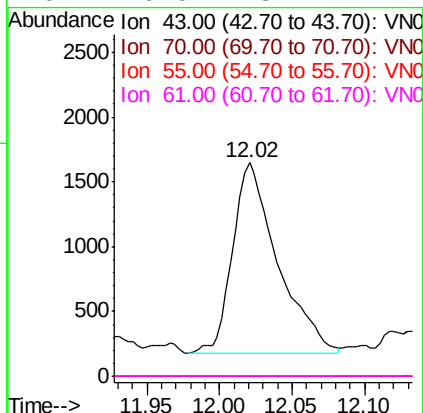
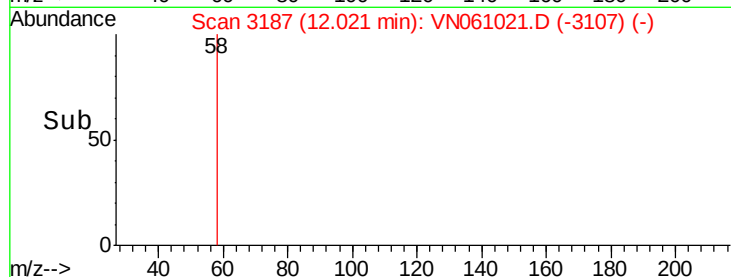
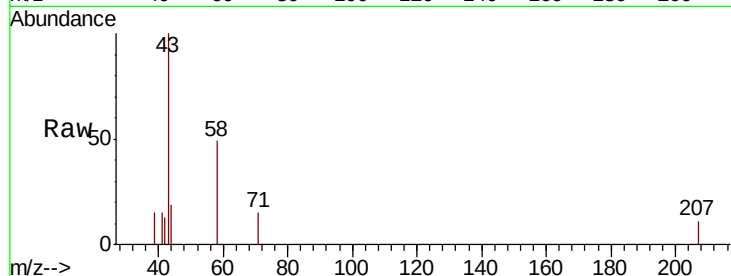




#74
N-amyl acetate
Concen: 0.714 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN061021.D
Acq: 16 Apr 2020 18:57

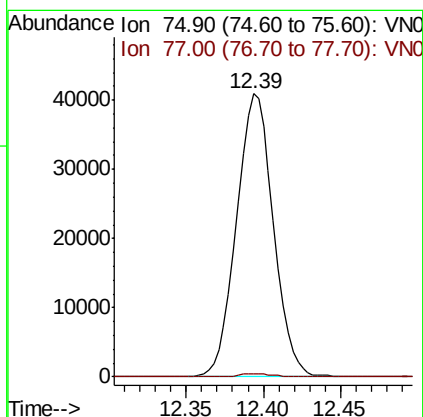
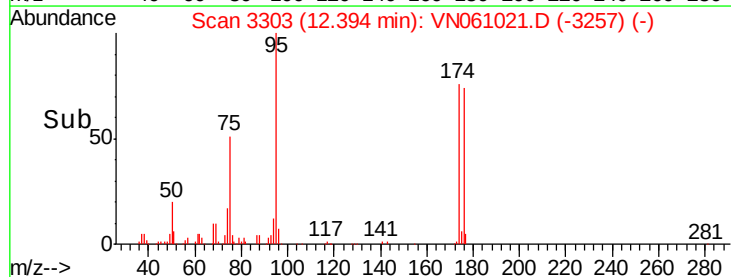
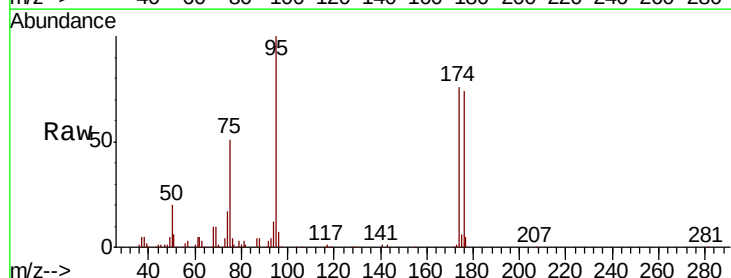
Instrument :
MSVOA_N
ClientSampled :
TP-11-DA

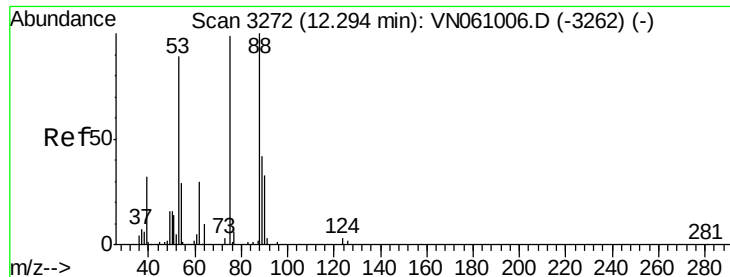
Tot Ion: 43 Resp: 3183
Ion Ratio Lower Upper
43 100
70 0.0 31.0 46.6#
55 0.0 18.6 27.8#
61 0.0 18.2 27.4#



#76
1,2,3-Trichloropropane
Concen: 25.686 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.15 min
Lab File: VN061021.D
Acq: 16 Apr 2020 18:57

Tgt Ion: 75 Resp: 67593
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 63.357 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061021.D

Acq: 16 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

TP-11-DA

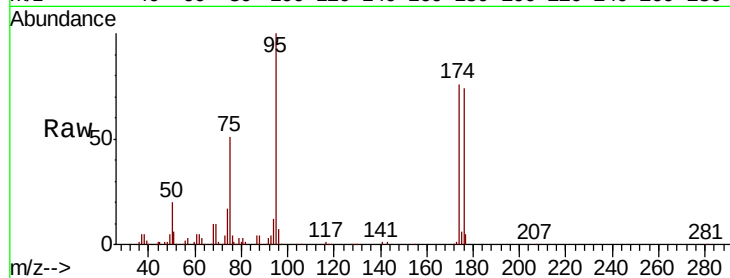
Tot Ion: 75 Resp: 67593

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

