

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061912.D
 Acq On : 18 Jun 2020 20:04
 Operator : JC/MD
 Sample : L3024-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-16

Quant Time: Jun 19 05:29:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

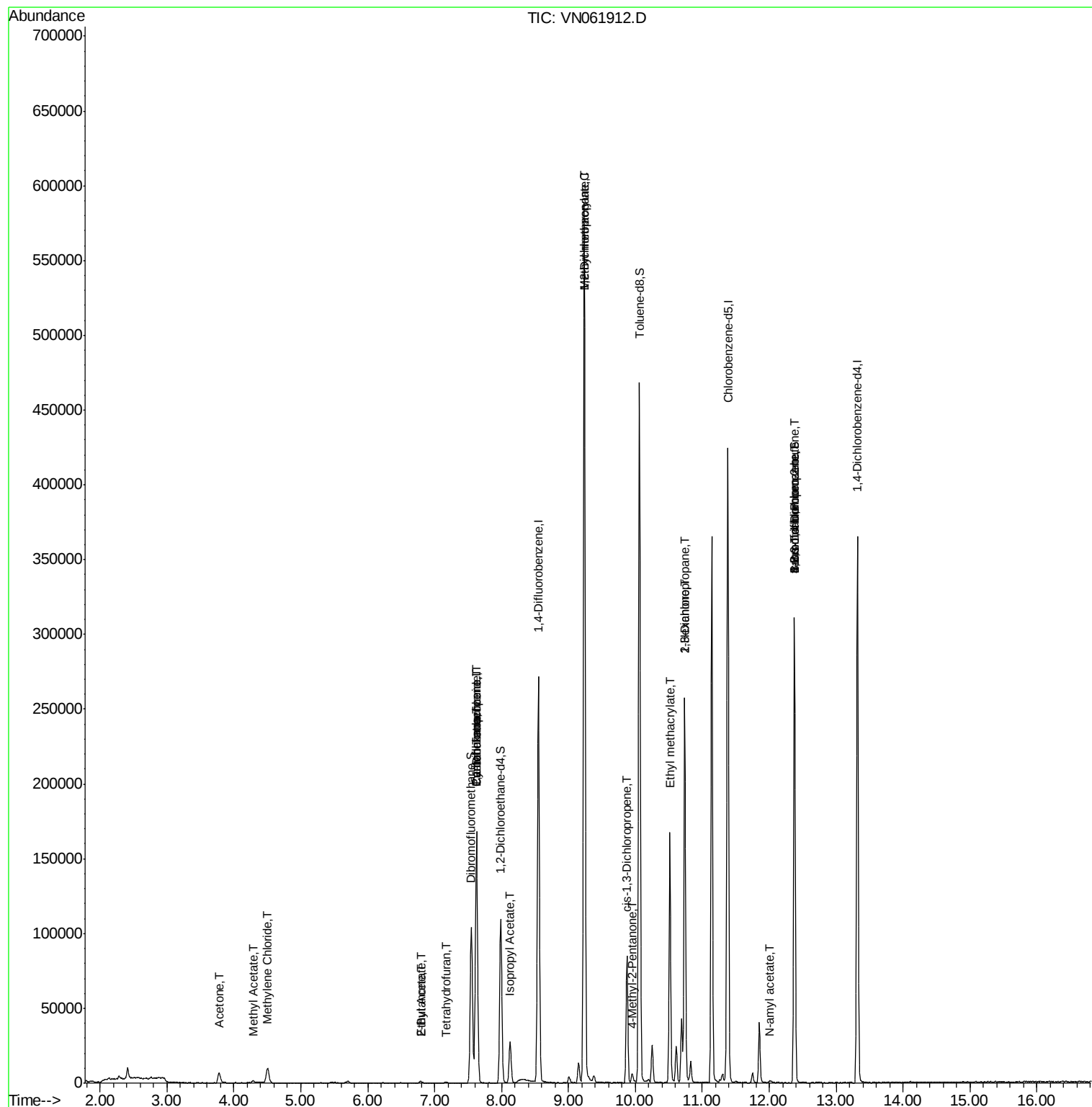
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	133100	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	251849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	257893	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	100930	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	91866	51.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.92%	
35) Dibromofluoromethane	7.55	113	81016	50.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.56%	
50) Toluene-d8	10.06	98	327445	51.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.38%	
62) 4-Bromofluorobenzene	12.38	95	108920	50.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.26%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	12054	22.861	ug/l	91
18) Methyl Acetate	4.28	43	954	0.628	ug/l #	84
20) Methylene Chloride	4.50	84	8218	4.784	ug/l	97
25) 2-Butanone	6.79	43	2091	2.718	ug/l	99
29) Tetrahydrofuran	7.16	42	390	0.770	ug/l #	26
31) Cyclohexane	7.63	56	2584	1.098	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10726	4.669	ug/l #	50
37) Ethyl Acetate	6.79	43	2091	1.166	ug/l #	65
38) Carbon Tetrachloride	7.62	117	13568	5.964	ug/l #	17
43) Isopropyl Acetate	8.13	43	30557	10.108	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	609	0.356	ug/l #	43
48) Methyl methacrylate	9.24	41	56641	41.200	ug/l #	33
51) 4-Methyl-2-Pentanone	9.96	43	3914	2.191	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	16820	5.916	ug/l #	68
56) Ethyl methacrylate	10.52	69	681	3.147	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2886	0.991	ug/l #	42
59) 2-Hexanone	10.74	43	32816	35.167	ug/l #	50
71) Bromoform	12.37	173	1019	0.736	ug/l #	1
74) N-amyl acetate	12.00	43	1815	3.720	ug/l #	38
76) 1,2,3-Trichloropropane	12.37	75	54554	27.532	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	54554	75.090	ug/l #	14

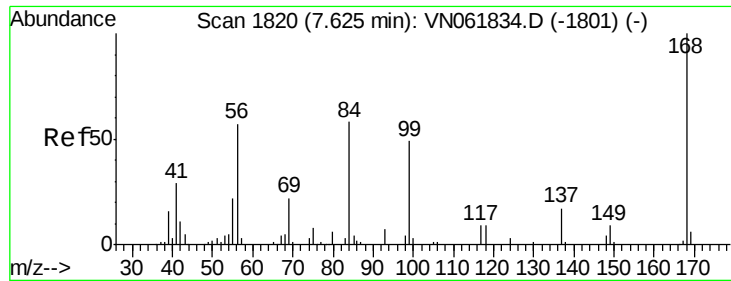
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

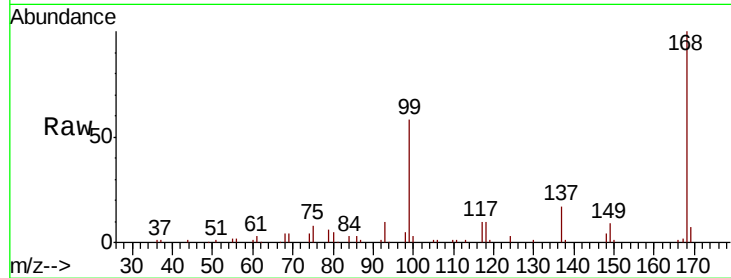
RO-16

Tot Ion:168 Resp: 133100

Ion Ratio Lower Upper

168 100

99 58.0 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): VN061834.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-1801) (-)

7.63

60000

50000

40000

30000

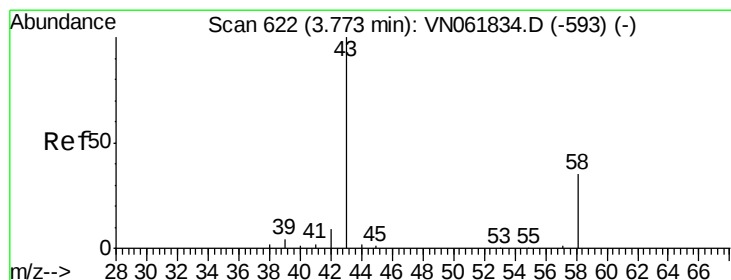
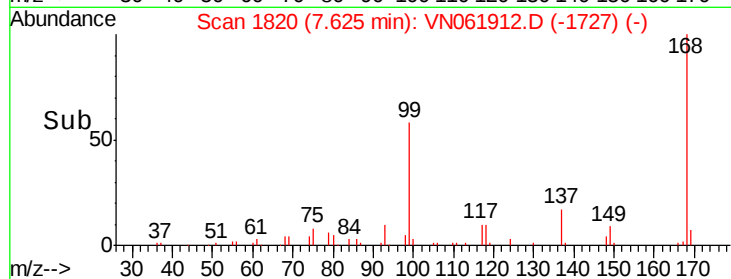
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 22.861 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061912.D

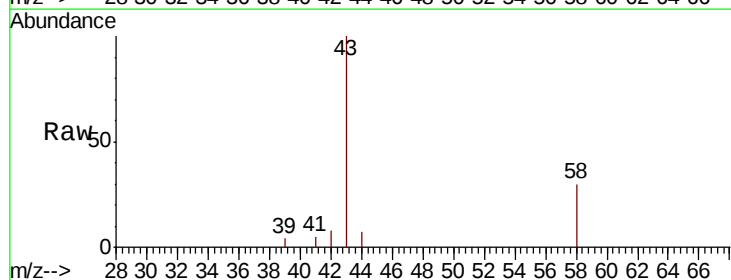
Acq: 18 Jun 2020 20:04

Tgt Ion: 43 Resp: 12054

Ion Ratio Lower Upper

43 100

58 29.7 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-593) (-)

3.78

5000

4000

3000

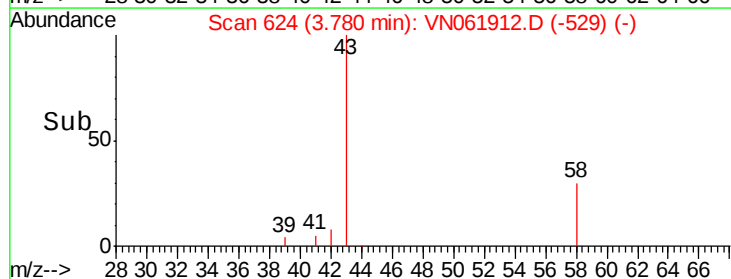
2000

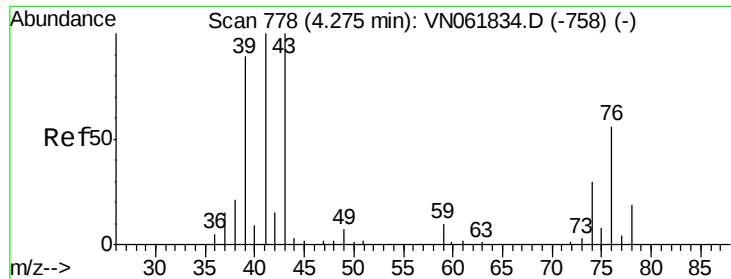
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

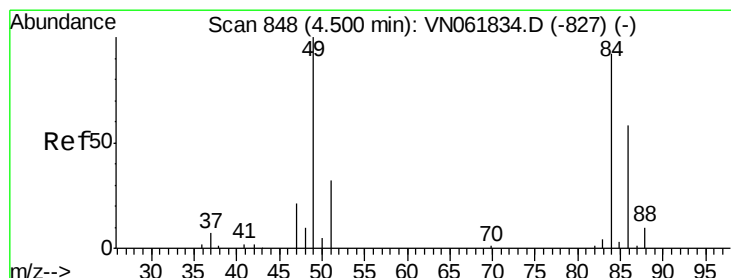
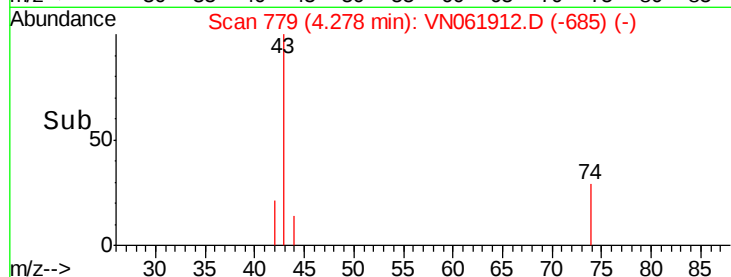
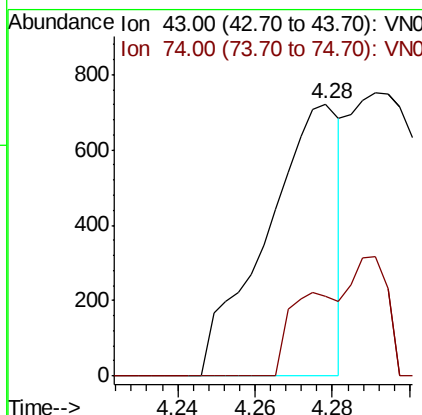
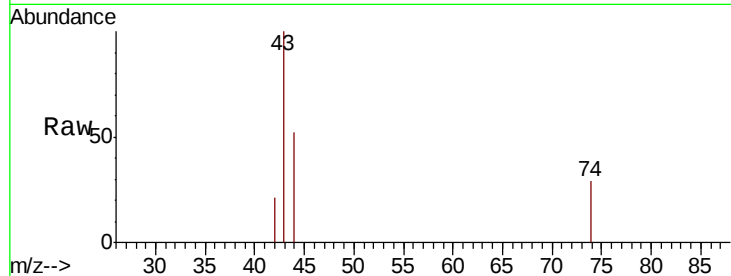




#18
Methyl Acetate
Concen: 0.628 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

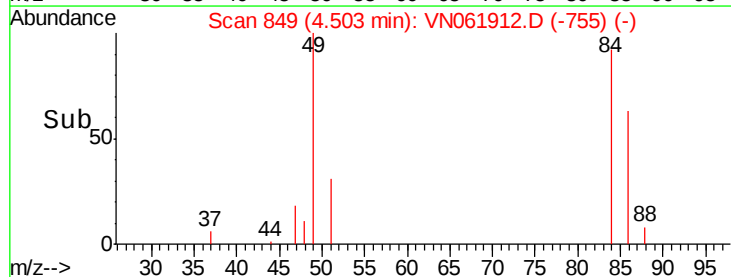
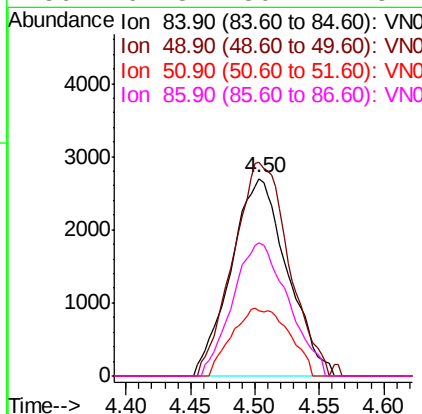
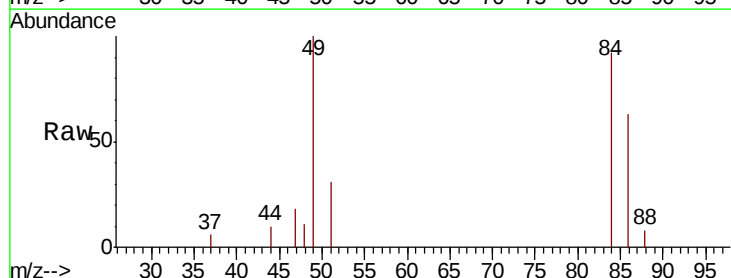
Instrument :
MSVOA_N
ClientSampled :
RO-16

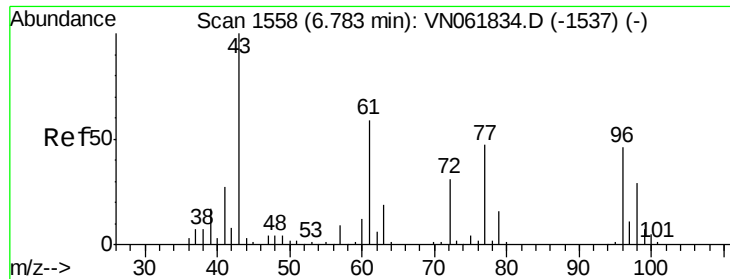
Tot Ion: 43 Resp: 954
Ion Ratio Lower Upper
43 100
74 20.4 23.0 34.4#



#20
Methylene Chloride
Concen: 4.784 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

Tgt Ion: 84 Resp: 8218
Ion Ratio Lower Upper
84 100
49 108.3 87.0 130.4
51 33.1 27.8 41.6
86 67.8 50.2 75.2

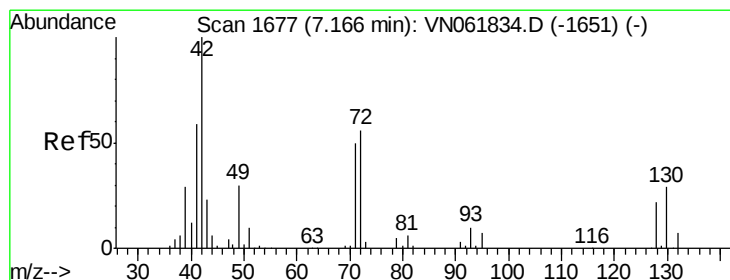
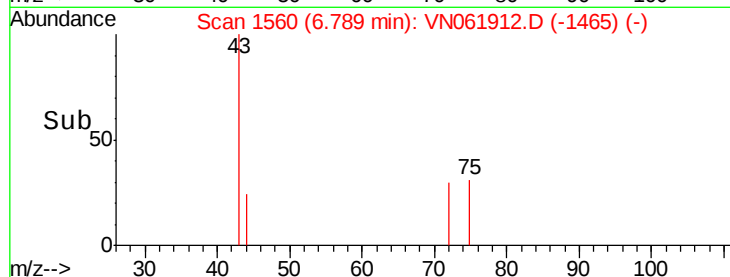
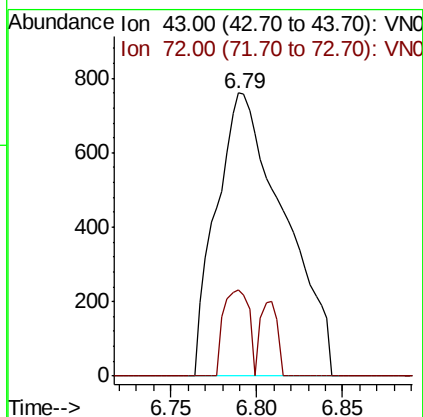
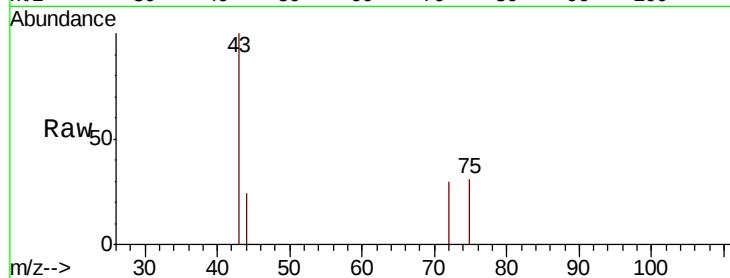




#25
2-Butanone
Concen: 2.718 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

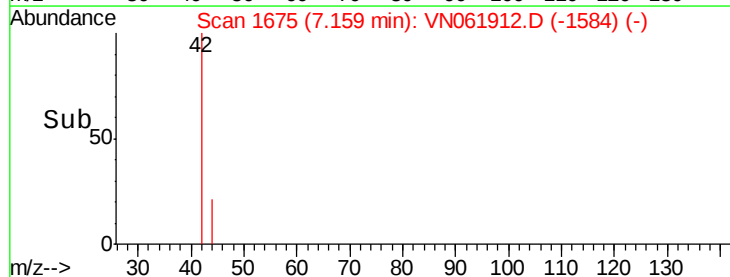
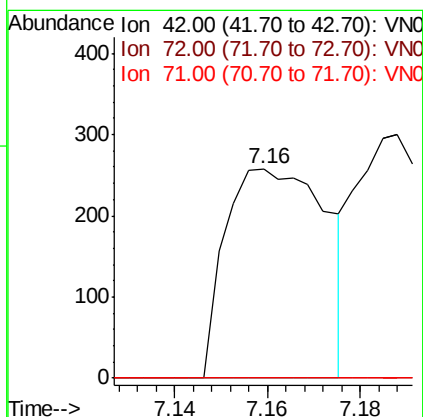
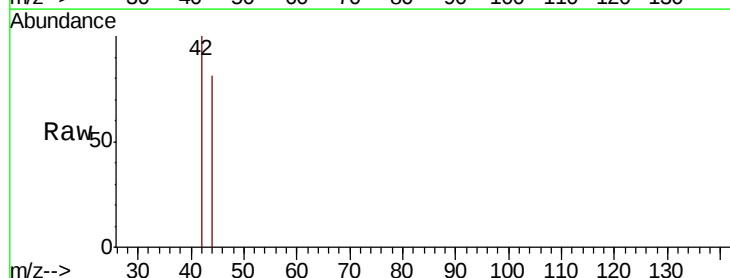
Instrument :
MSVOA_N
ClientSampled :
RO-16

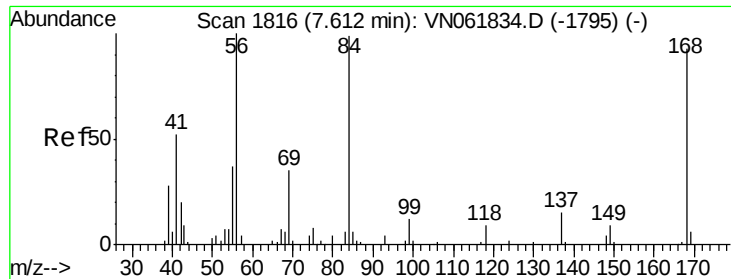
Tot Ion: 43 Resp: 2091
Ion Ratio Lower Upper
43 100
72 30.4 24.6 37.0



#29
Tetrahydrofuran
Concen: 0.770 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

Tgt Ion: 42 Resp: 390
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 40.0 60.0#

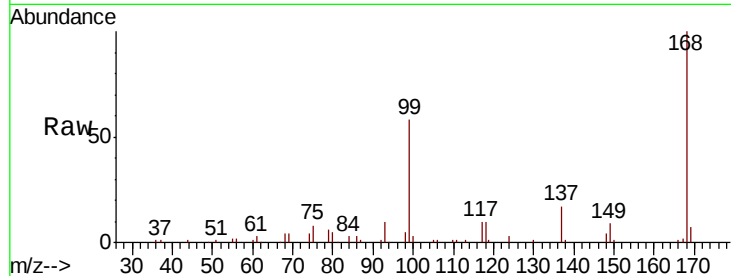




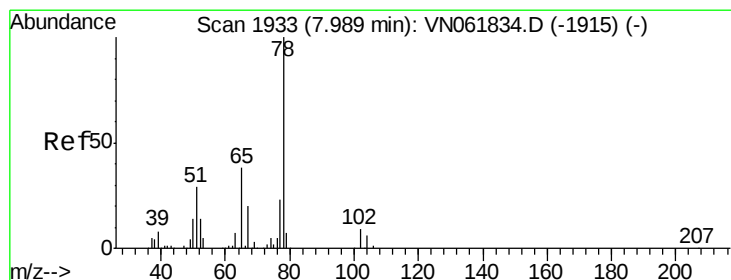
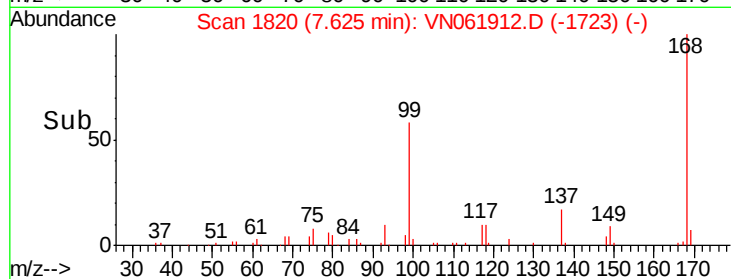
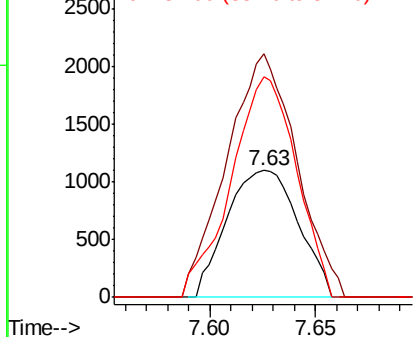
#31
Cyclohexane
Concen: 1.098 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

Instrument :
MSVOA_N
ClientSampled :
RO-16

Tot Ion: 56 Resp: 2584
Ion Ratio Lower Upper
56 100
69 176.6 27.7 41.5#
84 173.4 79.1 118.7#

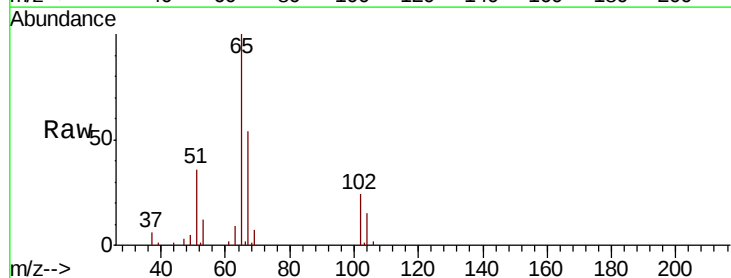


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

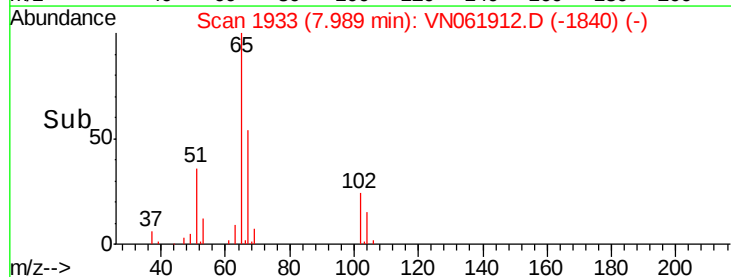
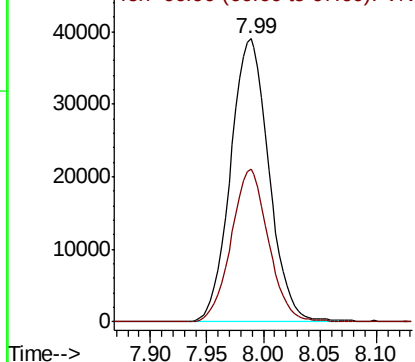


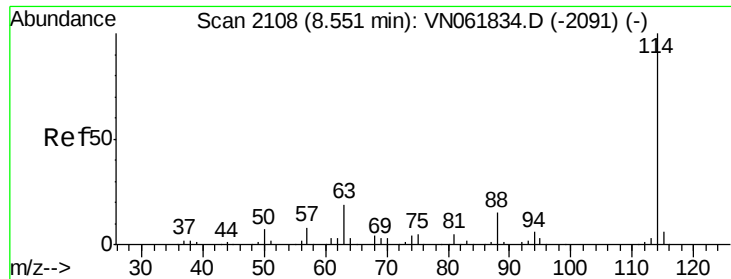
#33
1,2-Dichloroethane-d4
Concen: 51.464 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

Tgt Ion: 65 Resp: 91866
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

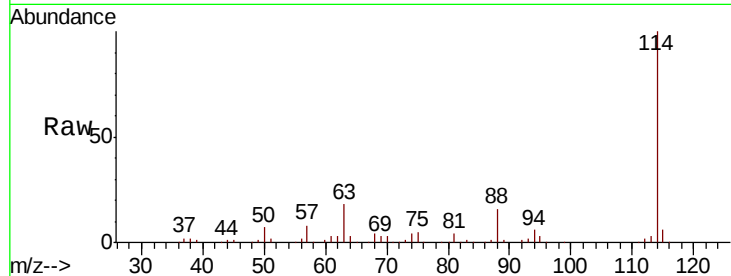




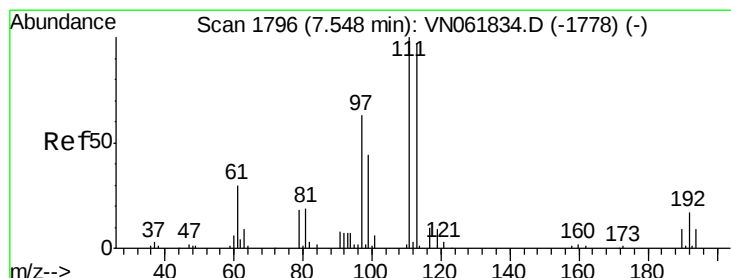
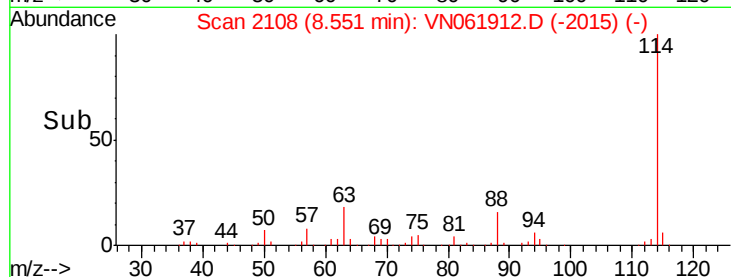
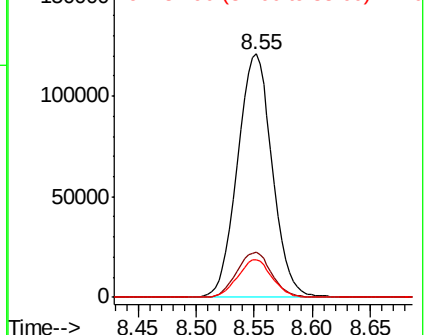
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

Instrument :
MSVOA_N
ClientSampleId :
RO-16

Tot Ion:114 Resp: 251849
Ion Ratio Lower Upper
114 100
63 18.4 0.0 37.6
88 15.6 0.0 31.0

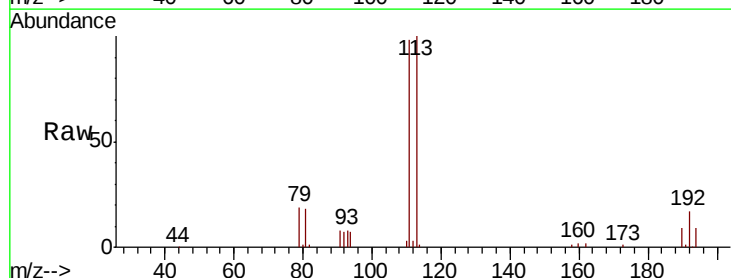


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

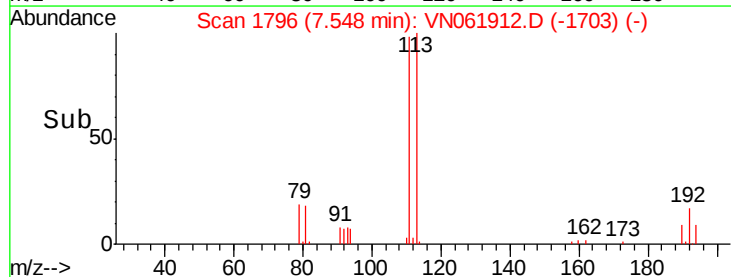
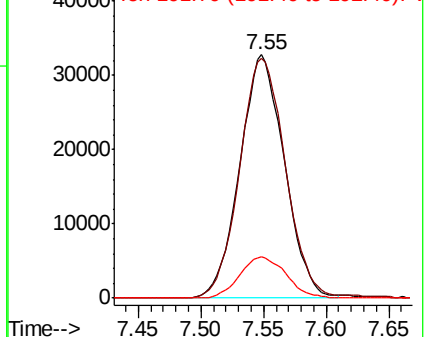


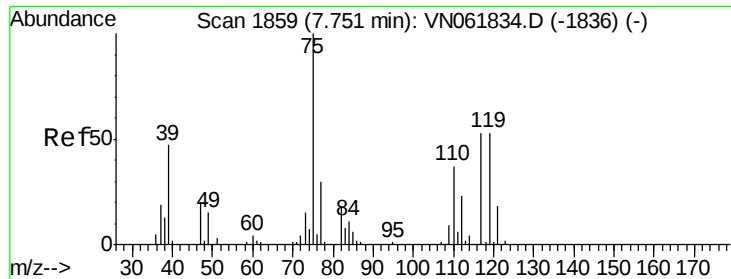
#35
Dibromofluoromethane
Concen: 50.283 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

Tgt Ion:113 Resp: 81016
Ion Ratio Lower Upper
113 100
111 101.6 83.7 125.5
192 17.6 13.9 20.9



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

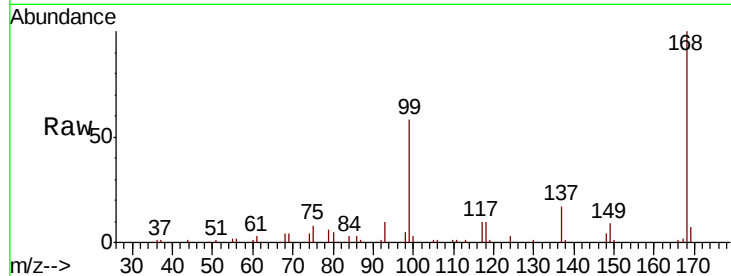




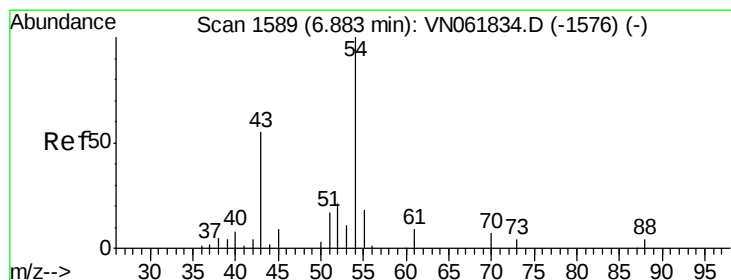
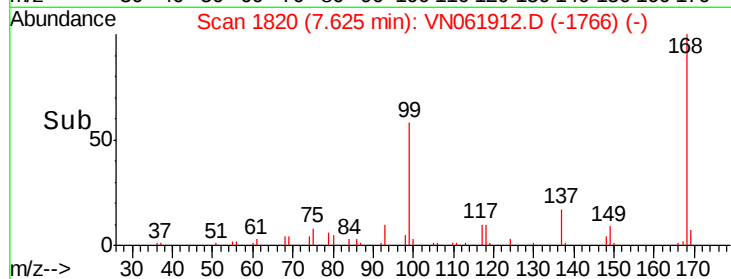
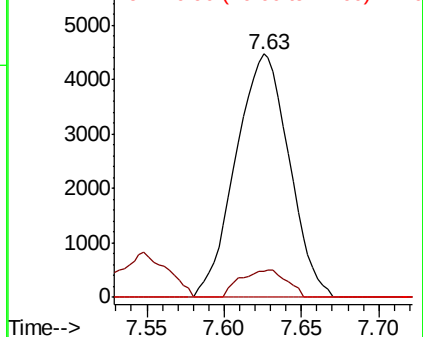
#36
 1,1-Dichloropropene
 Concen: 4.669 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061912.D
 Acq: 18 Jun 2020 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-16

Tot Ion: 75 Resp: 10726
 Ion Ratio Lower Upper
 75 100
 110 9.7 18.2 54.6#
 77 0.0 24.2 36.4#

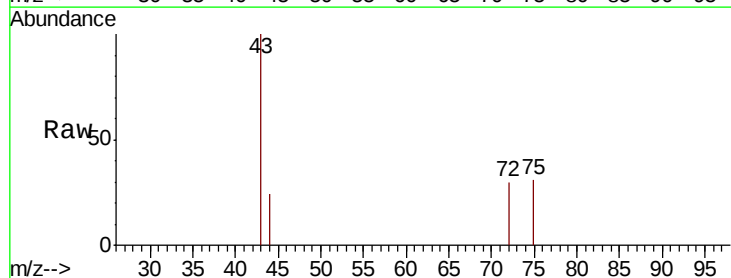


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

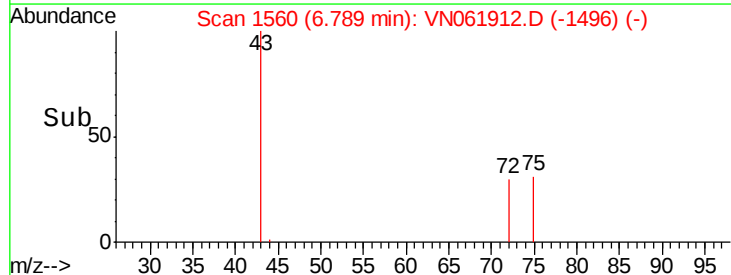
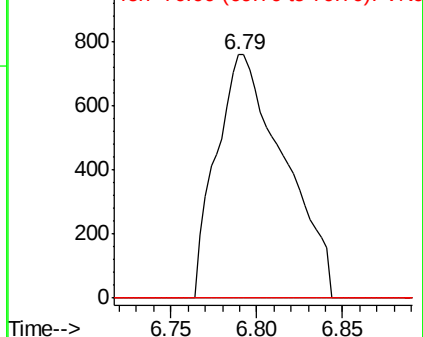


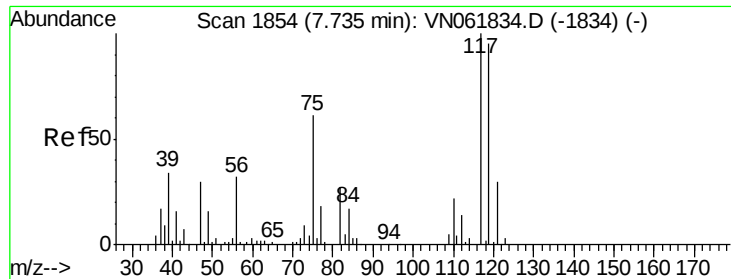
#37
 Ethyl Acetate
 Concen: 1.166 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. -0.09 min
 Lab File: VN061912.D
 Acq: 18 Jun 2020 20:04

Tgt Ion: 43 Resp: 2091
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.0 19.4#
 70 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.964 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

RO-16

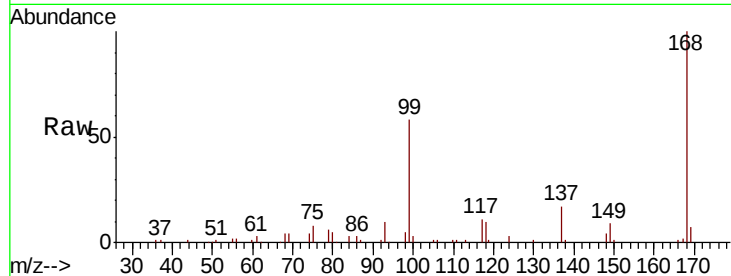
Tot Ion:117 Resp: 13568

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.6#

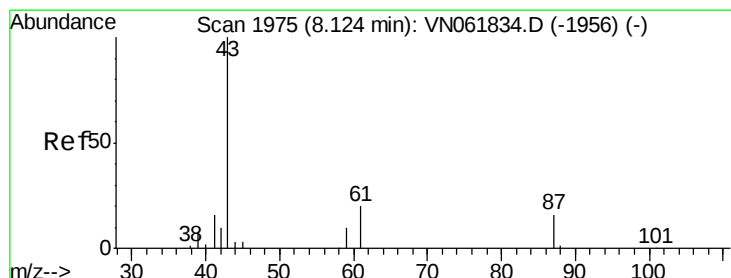
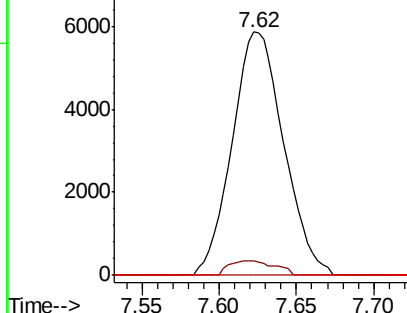
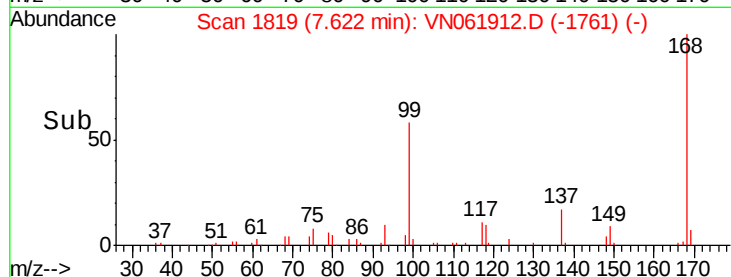
121 0.0 23.8 35.6#



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: 10.108 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

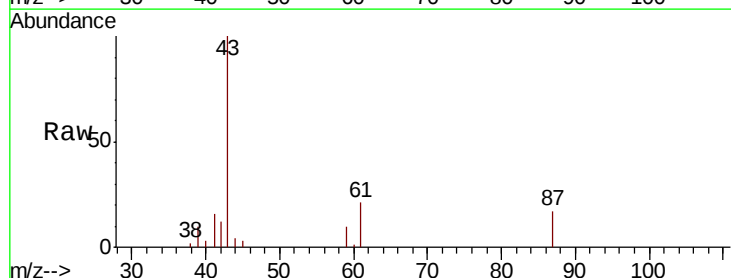
Tgt Ion: 43 Resp: 30557

Ion Ratio Lower Upper

43 100

61 21.2 24.0 36.0#

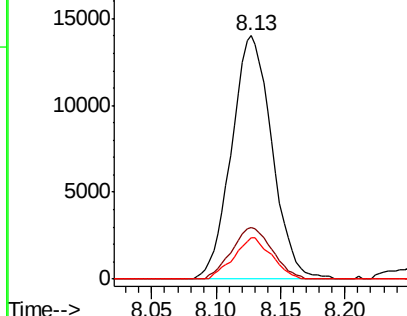
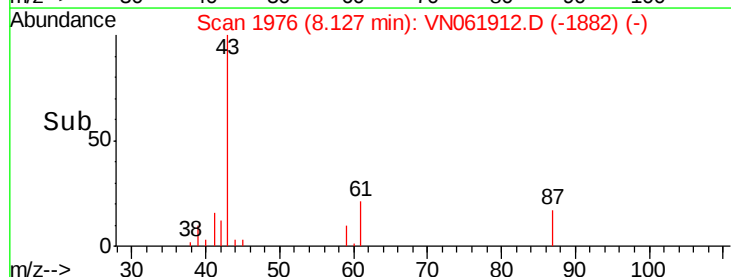
87 16.0 12.5 18.7

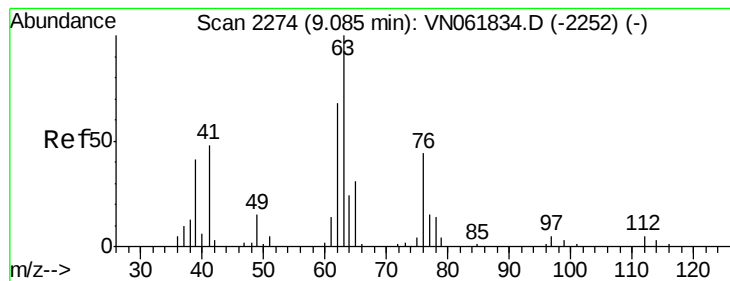


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.356 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

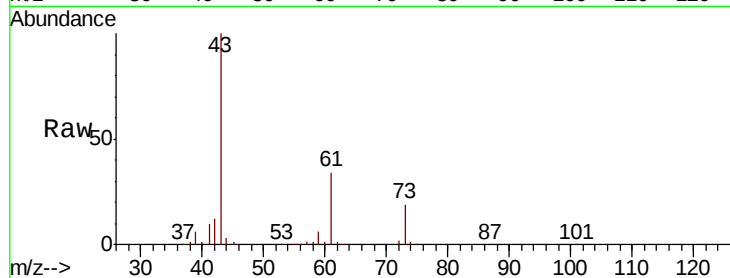
RO-16

Tot Ion: 63 Resp: 609

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.23

400

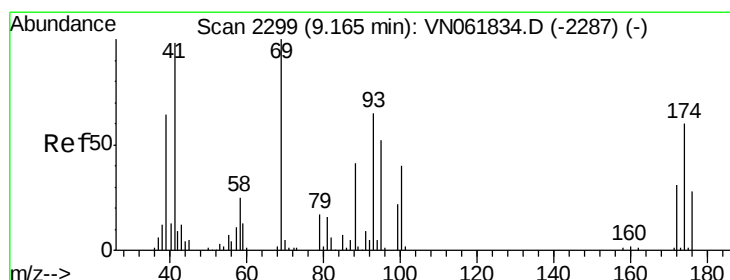
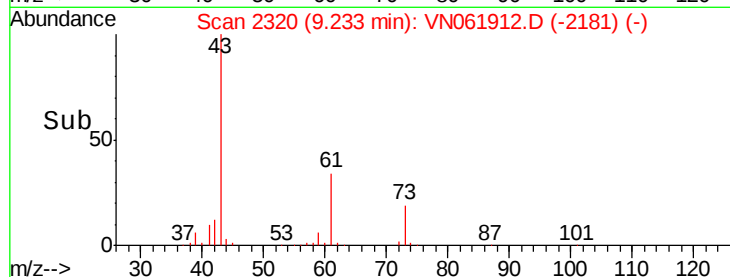
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 41.200 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.07 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

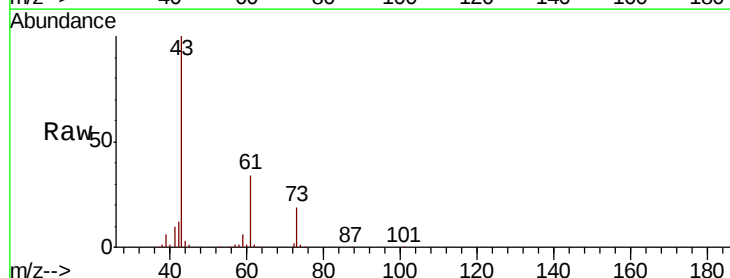
Tgt Ion: 41 Resp: 56641

Ion Ratio Lower Upper

41 100

69 0.0 83.0 124.4#

39 55.9 55.1 82.7



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

40000

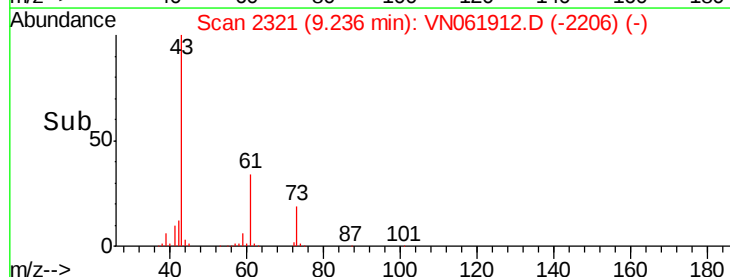
30000

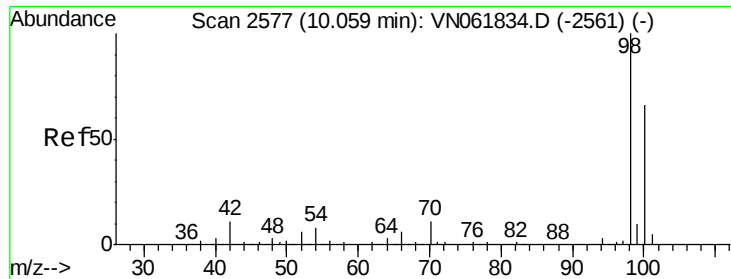
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.694 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

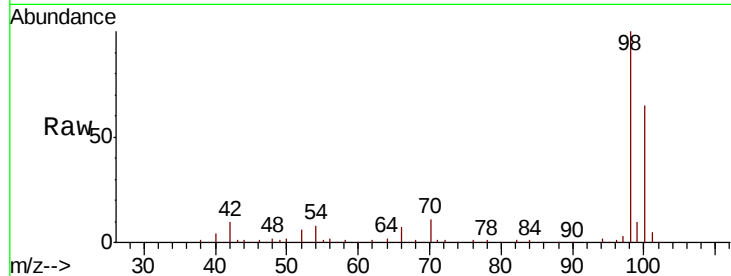
RO-16

Tot Ion: 98 Resp: 327445

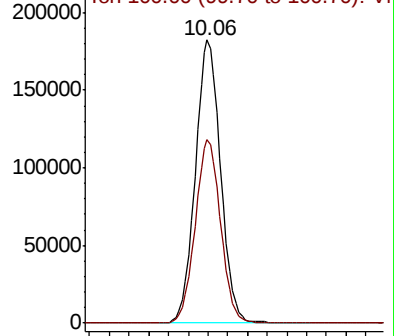
Ion Ratio Lower Upper

98 100

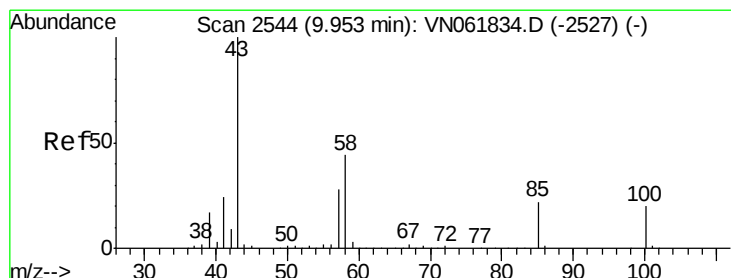
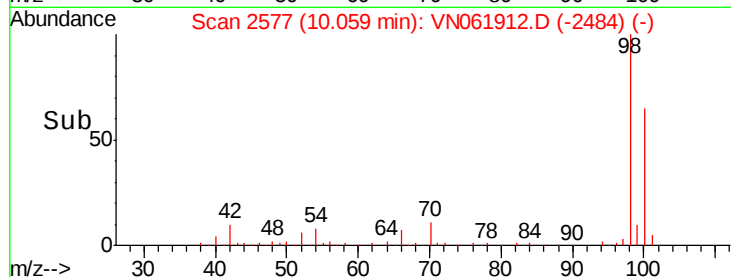
100 65.1 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.191 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061912.D

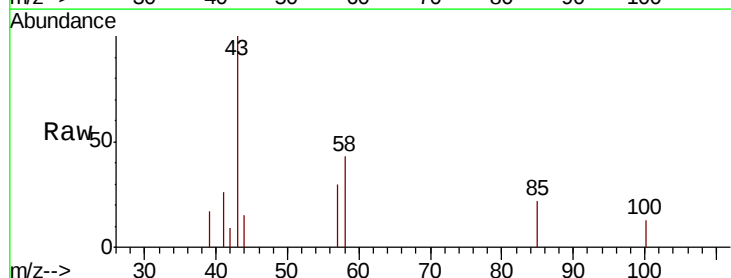
Acq: 18 Jun 2020 20:04

Tgt Ion: 43 Resp: 3914

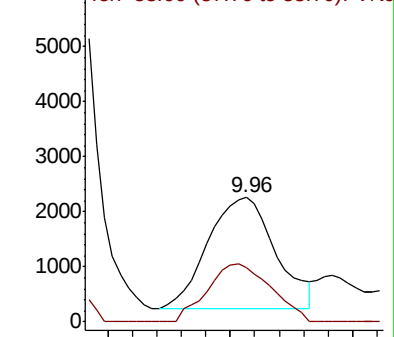
Ion Ratio Lower Upper

43 100

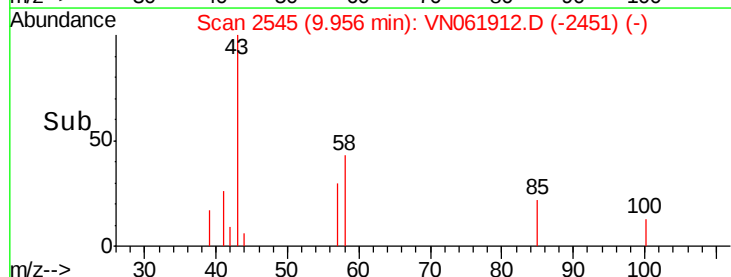
58 48.4 34.6 52.0

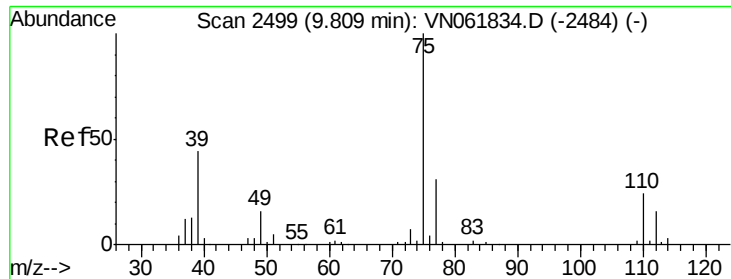


Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)



Time-->

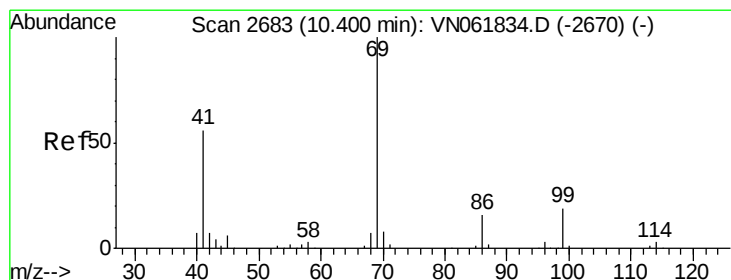
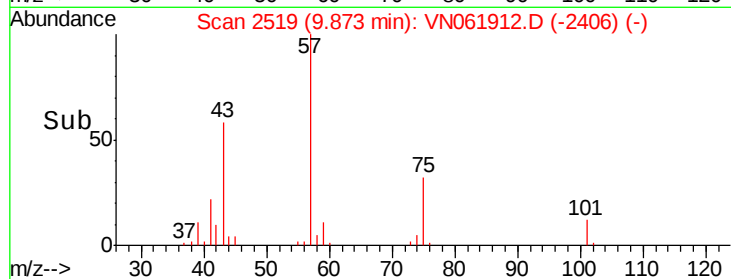
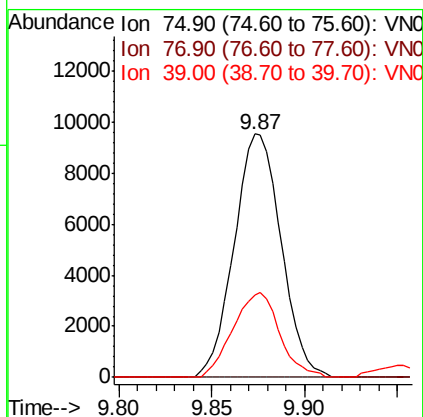
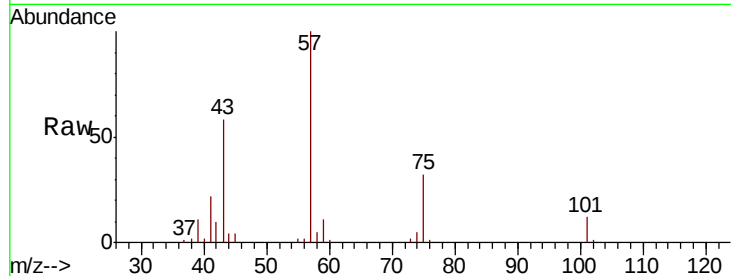




#54
 cis-1,3-Dichloropropene
 Concen: 5.916 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061912.D
 Acq: 18 Jun 2020 20:04

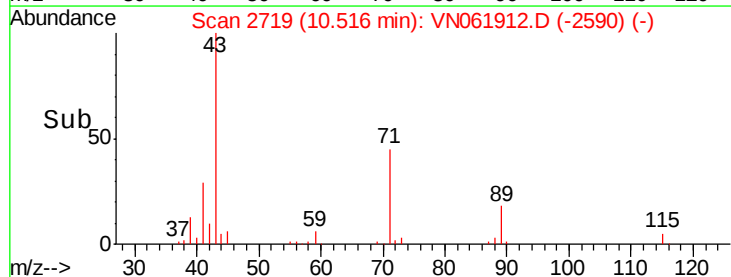
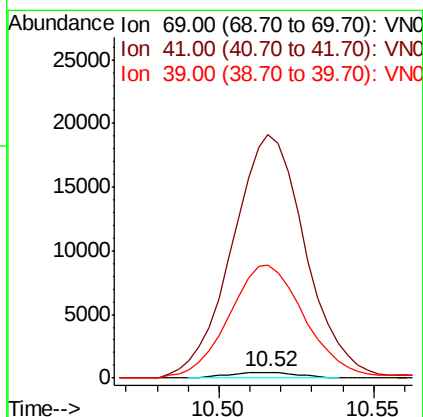
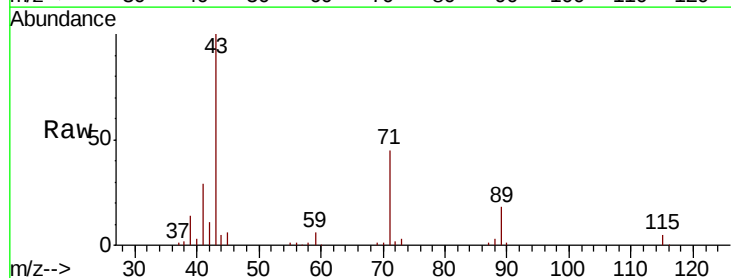
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-16

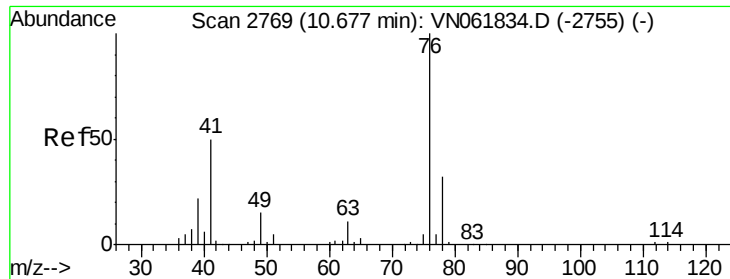
Tot Ion: 75 Resp: 16820
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 34.0 35.4 53.0#



#56
 Ethyl methacrylate
 Concen: 3.147 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061912.D
 Acq: 18 Jun 2020 20:04

Tgt Ion: 69 Resp: 681
 Ion Ratio Lower Upper
 69 100
 41 4653.3 44.9 67.3#
 39 2272.5 30.0 45.0#

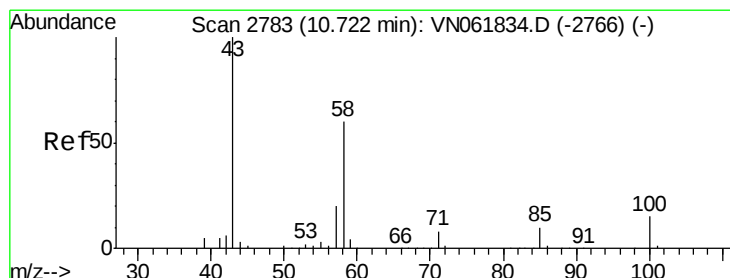
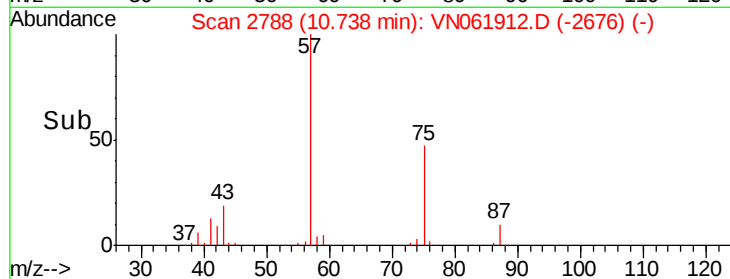
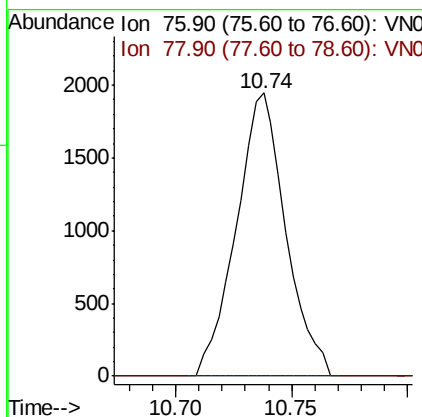
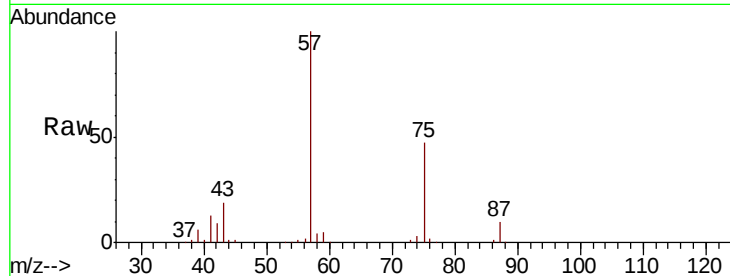




#57
 1,3-Dichloropropane
 Concen: 0.991 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061912.D
 Acq: 18 Jun 2020 20:04

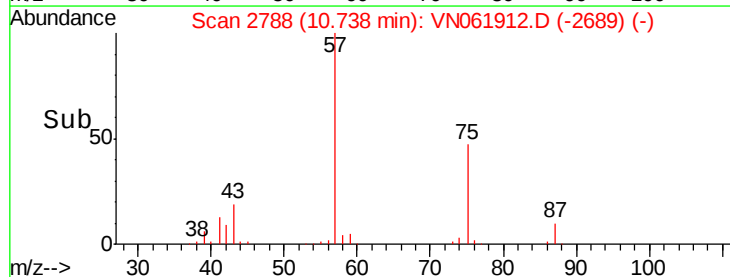
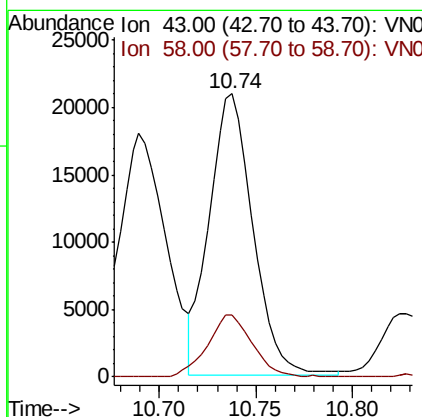
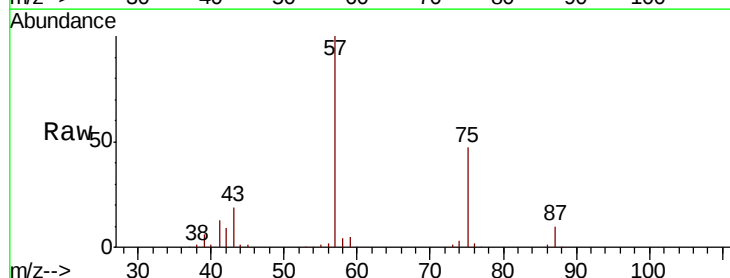
Instrument :
 MSVOA_N
 ClientSampled :
 RO-16

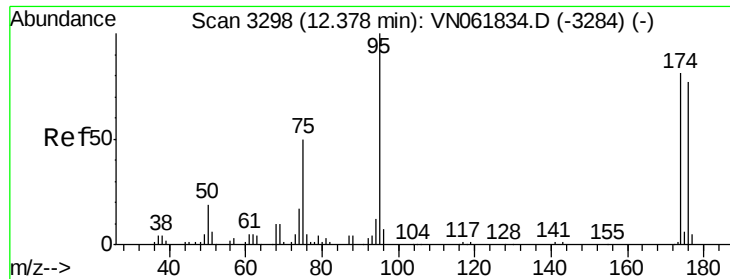
Tot Ion: 76 Resp: 2886
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 35.167 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061912.D
 Acq: 18 Jun 2020 20:04

Tgt Ion: 43 Resp: 32816
 Ion Ratio Lower Upper
 43 100
 58 22.4 30.1 90.5#

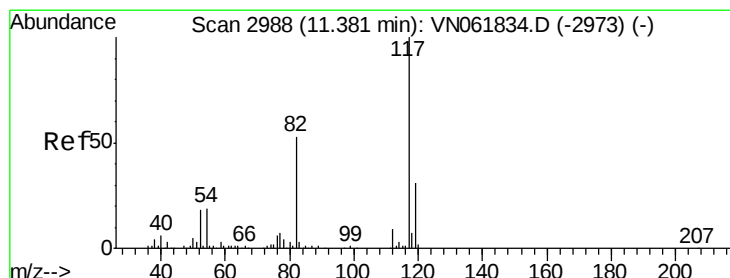
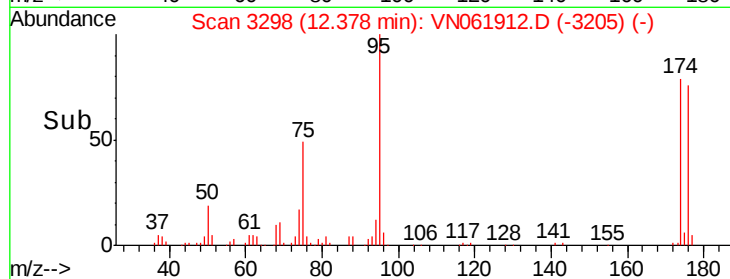
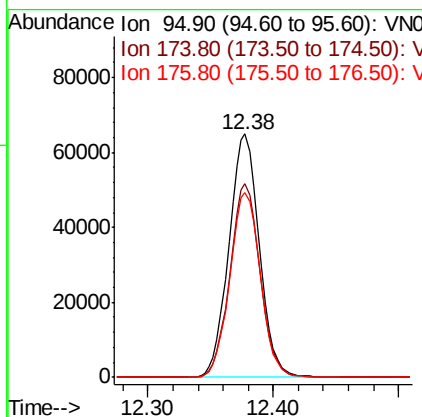
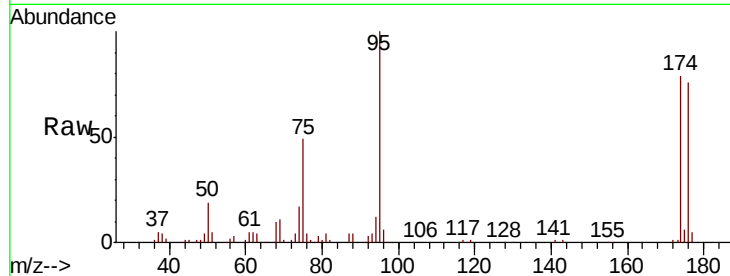




#62
4-Bromofluorobenzene
Concen: 50.130 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

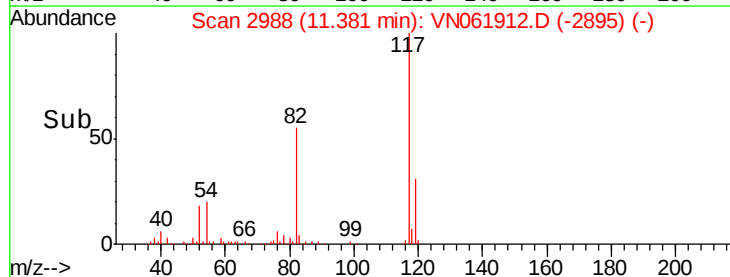
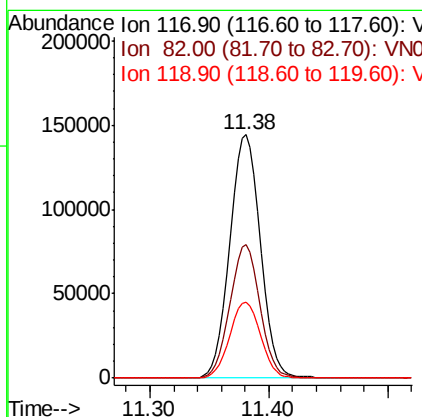
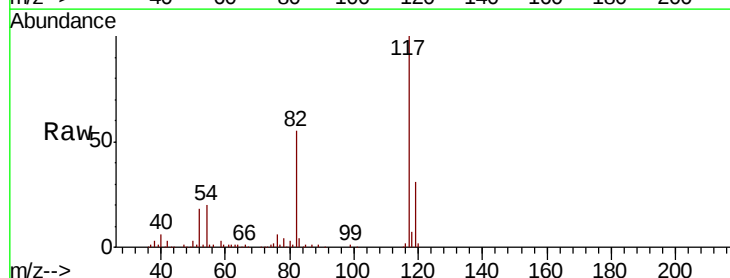
Instrument :
MSVOA_N
ClientSampleId :
RO-16

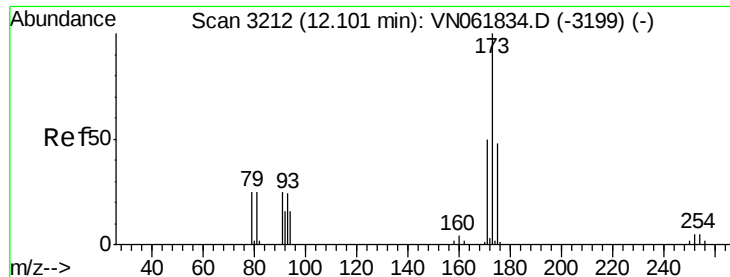
Tot Ion	95	Resp	108920
Ion Ratio	Lower	Upper	
95	100		
174	79.3	0.0	158.6
176	76.4	0.0	152.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061912.D
Acq: 18 Jun 2020 20:04

Tgt Ion	117	Resp	257893
Ion Ratio	Lower	Upper	
117	100		
82	55.0	42.6	64.0
119	31.1	24.7	37.1





#71

Bromoform

Concen: 0.736 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

Instrument :

MSVOA_N

ClientSampled :

RO-16

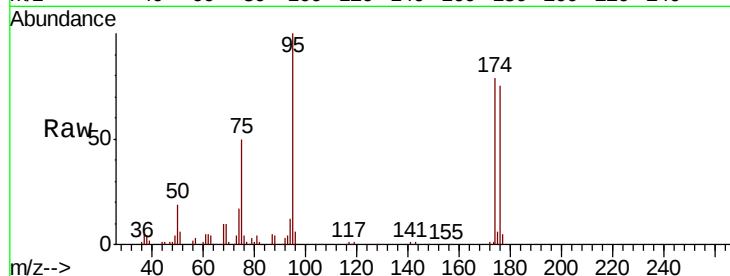
Tot Ion:173 Resp: 1019

Ion Ratio Lower Upper

173 100

175 564.4 23.9 71.7#

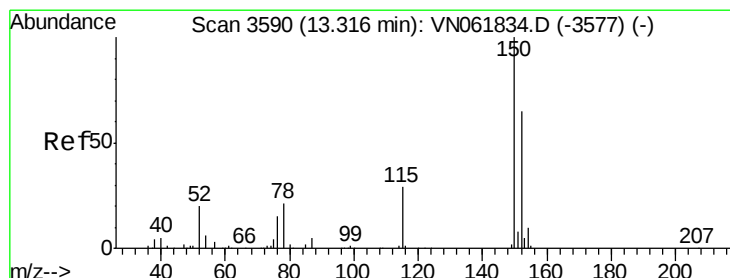
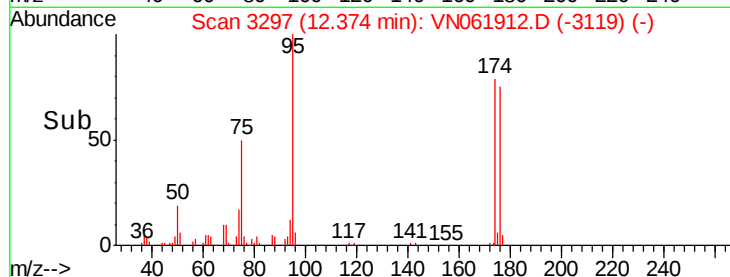
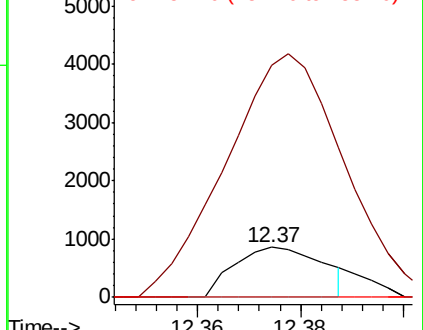
254 0.0 0.0 0.0



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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

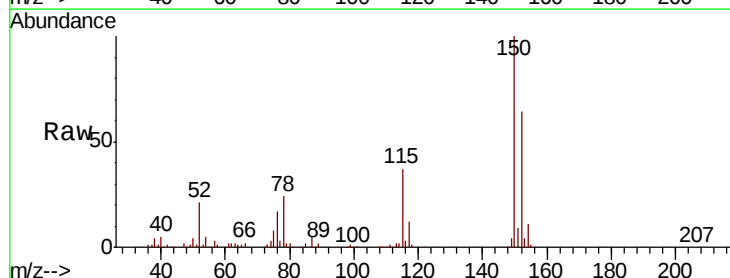
Tgt Ion:152 Resp: 100930

Ion Ratio Lower Upper

152 100

115 57.8 29.1 87.3

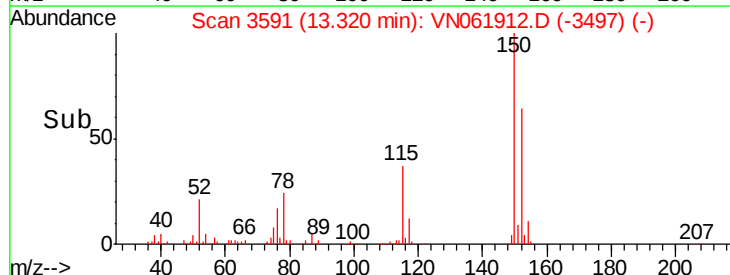
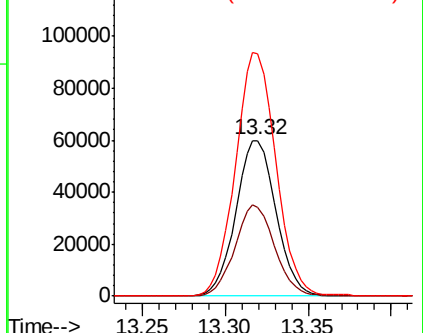
150 157.7 0.0 347.6

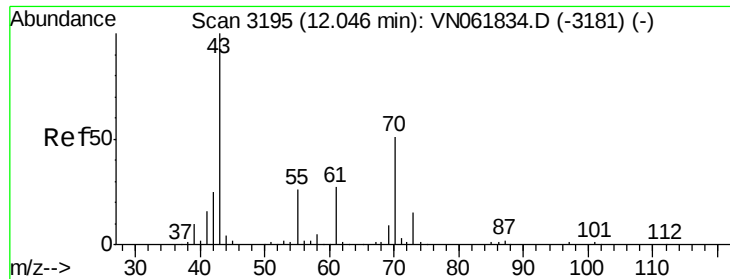


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.720 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

RO-16

Tot Ion: 43 Resp: 1815

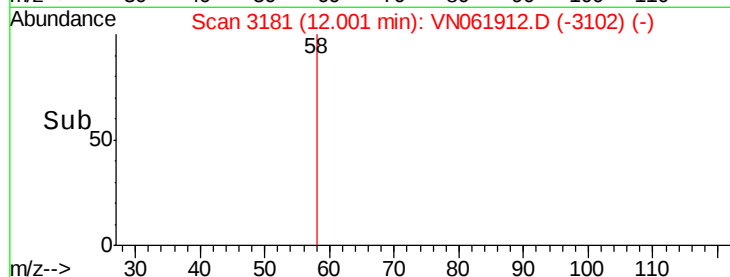
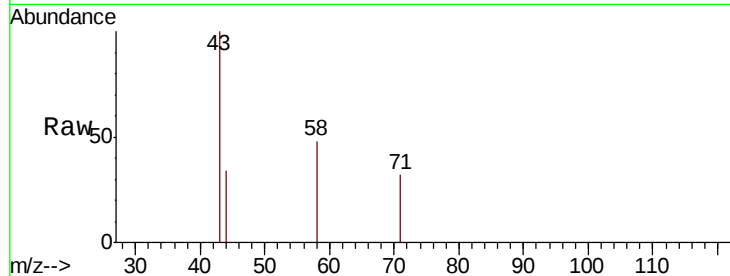
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

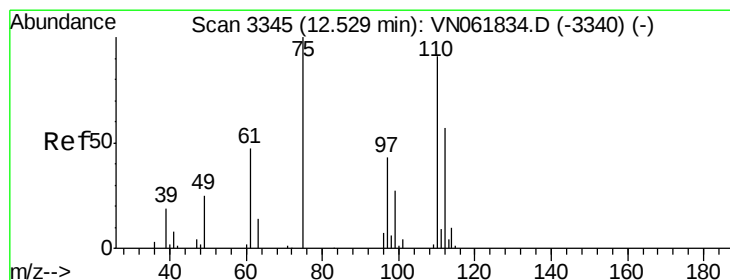
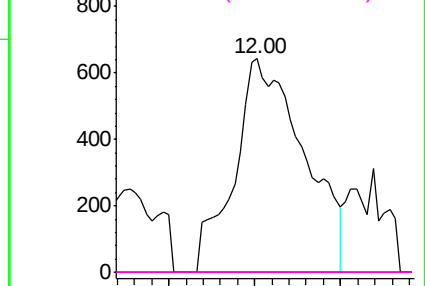


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.532 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061912.D

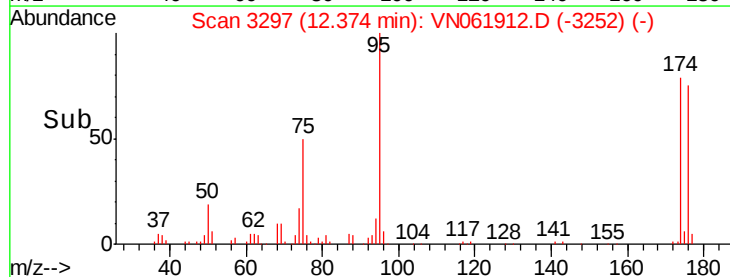
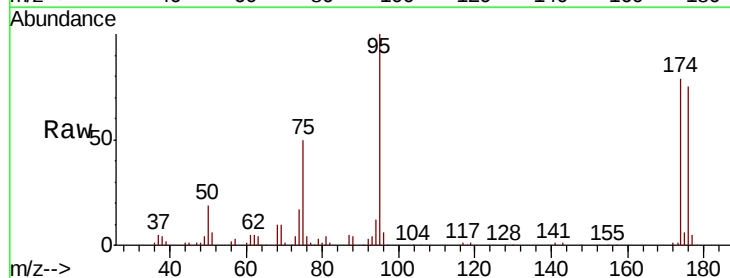
Acq: 18 Jun 2020 20:04

Tgt Ion: 75 Resp: 54554

Ion Ratio Lower Upper

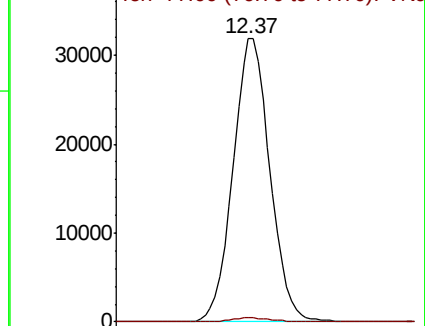
75 100

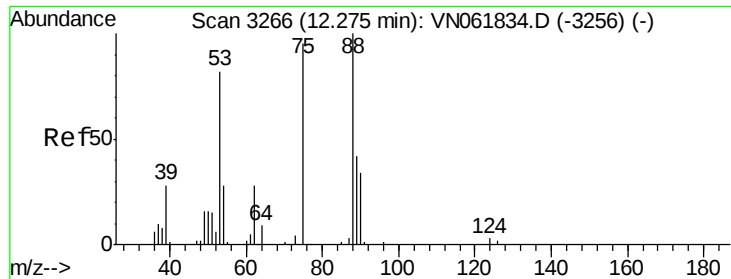
77 1.5 0.0 0.0#



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: 75.090 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061912.D

Acq: 18 Jun 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

RO-16

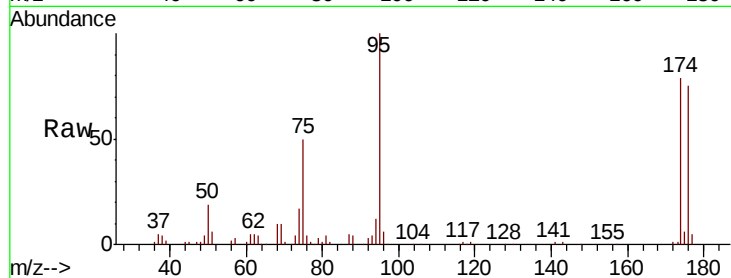
Tot Ion: 75 Resp: 54554

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



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

