

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042020\
 Data File : VN061104.D
 Acq On : 20 Apr 2020 16:14
 Operator : JC/MD
 Sample : L2330-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-SO-2020-04-16

Quant Time: Apr 21 04:00:19 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	145227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	252132	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	237351	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	102371	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	101149	54.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.88%	
35) Dibromofluoromethane	7.56	113	75772	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
50) Toluene-d8	10.08	98	311618	56.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.02%	
62) 4-Bromofluorobenzene	12.39	95	113576	52.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.16%	

Target Compounds

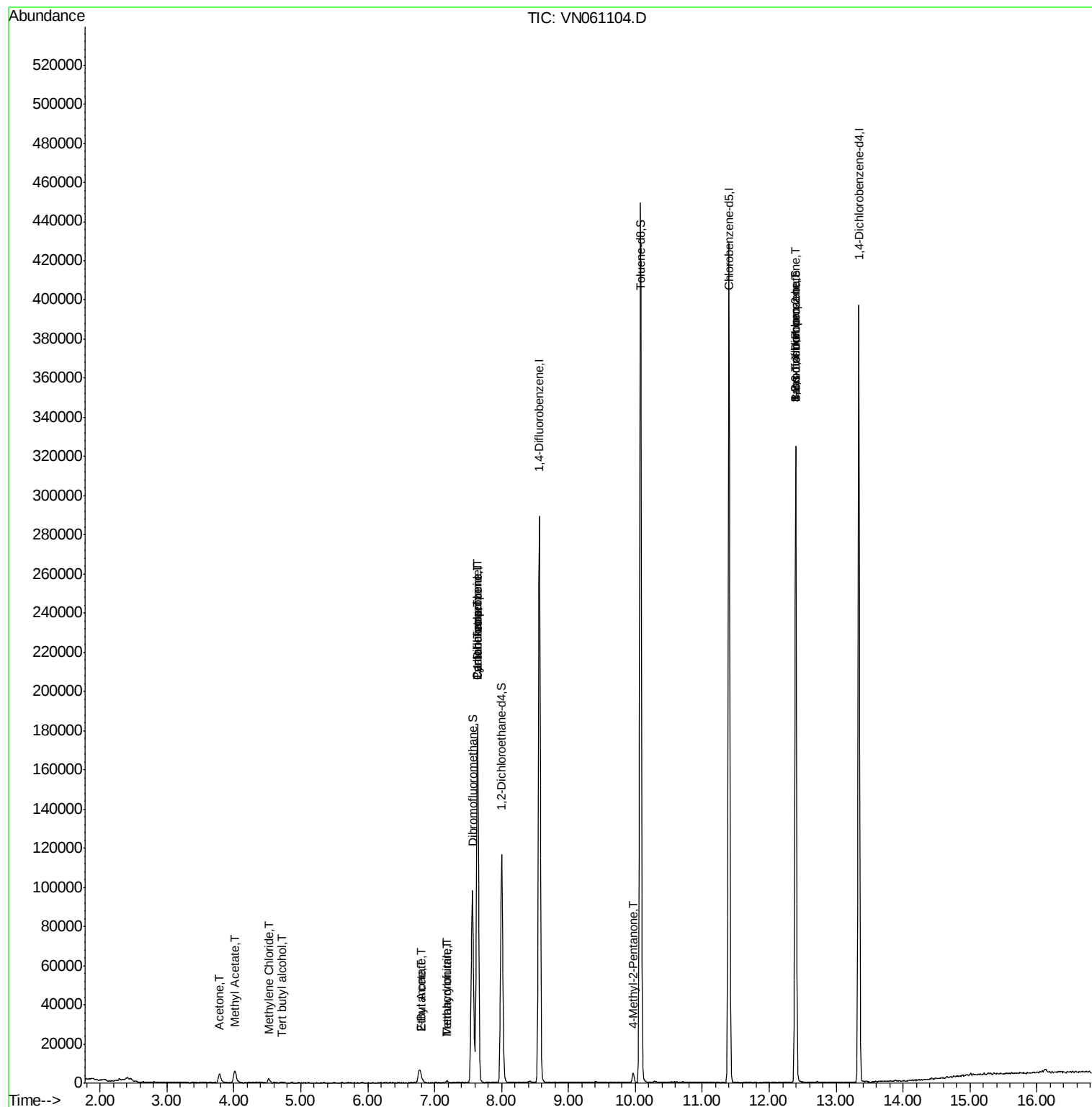
					Qvalue	
11) Tert butyl alcohol	4.71	59	504	1.529	ug/l #	73
16) Acetone	3.79	43	8651	10.578	ug/l	95
18) Methyl Acetate	4.01	43	2543	0.992	ug/l #	54
20) Methylene Chloride	4.52	84	1494	0.837	ug/l #	93
25) 2-Butanone	6.82	43	3113	2.484	ug/l	96
29) Tetrahydrofuran	7.18	42	1055	1.240	ug/l #	46
31) Cyclohexane	7.64	56	3009	0.869	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11543	4.437	ug/l #	50
37) Ethyl Acetate	6.82	43	3113	1.102	ug/l #	69
38) Carbon Tetrachloride	7.64	117	14323	6.614	ug/l #	15
41) Methacrylonitrile	7.18	41	261	0.221	ug/l #	100
51) 4-Methyl-2-Pentanone	9.97	43	3789	1.431	ug/l	91
71) Bromoform	12.40	173	539	0.412	ug/l #	1
76) 1,2,3-Trichloropropane	12.39	75	58313	25.897	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	58313	63.877	ug/l #	12

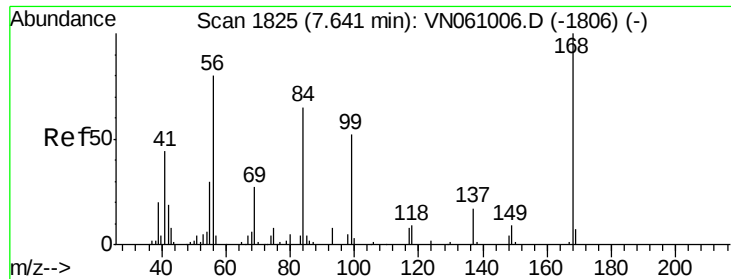
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061104.D

Acq: 20 Apr 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

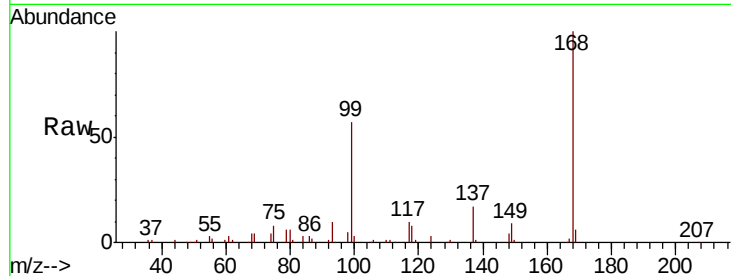
FB-SO-2020-04-16

Tot Ion:168 Resp: 145227

Ion Ratio Lower Upper

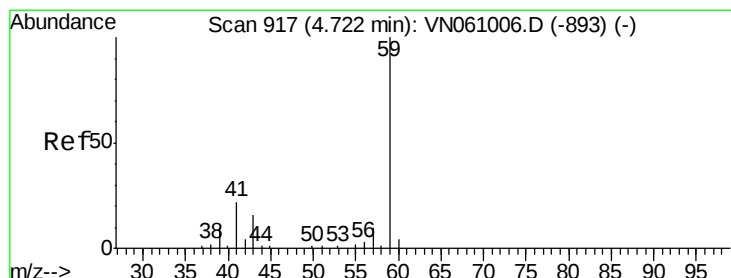
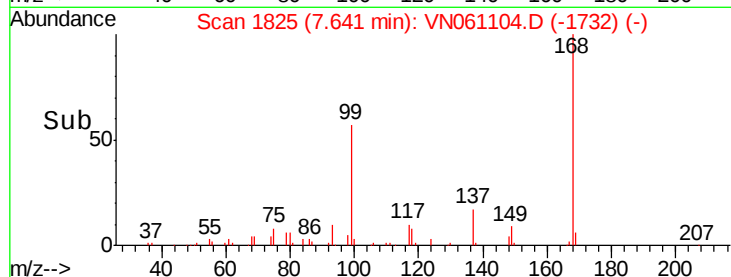
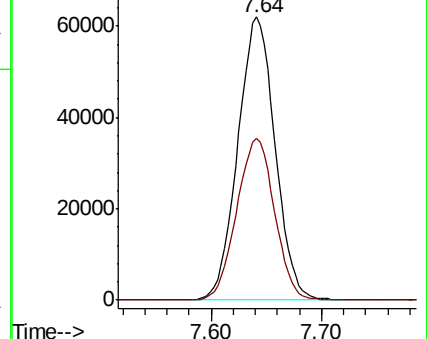
168 100

99 57.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 1.529 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.01 min

Lab File: VN061104.D

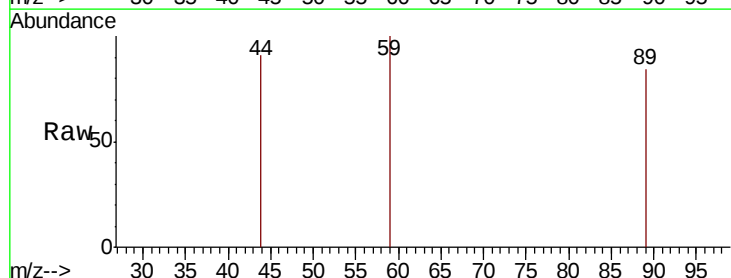
Acq: 20 Apr 2020 16:14

Tgt Ion: 59 Resp: 504

Ion Ratio Lower Upper

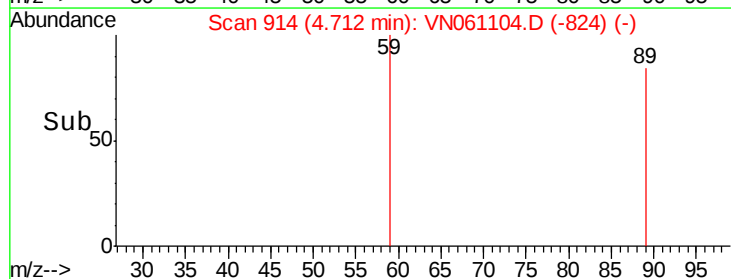
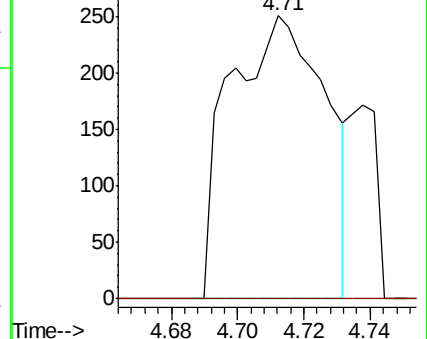
59 100

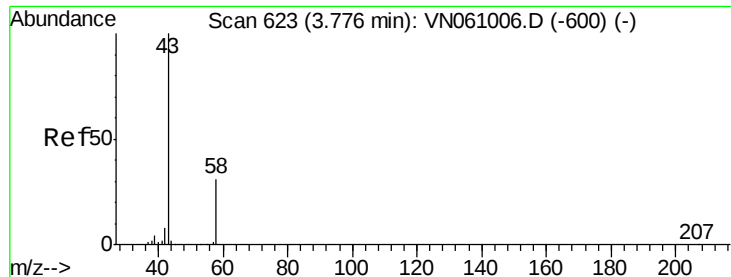
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 10.578 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN061104.D

Acq: 20 Apr 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

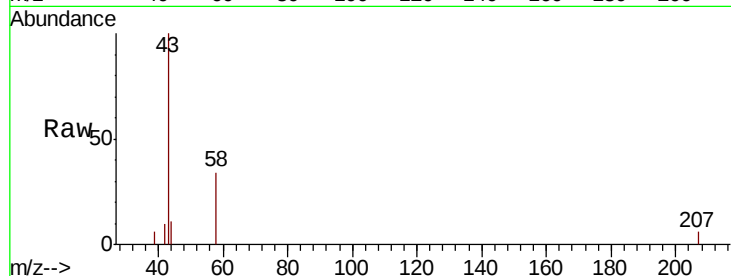
FB-SO-2020-04-16

Tot Ion: 43 Resp: 8651

Ion Ratio Lower Upper

43 100

58 33.6 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN061104.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN061104.D (-530) (-)

3000

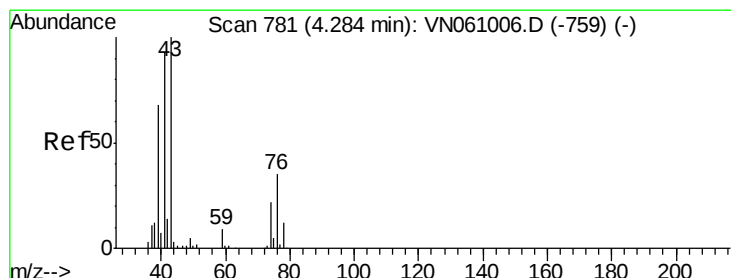
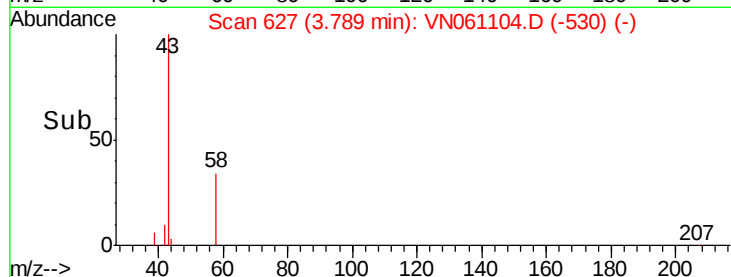
2000

1000

0

3.70 3.75 3.80 3.85 3.90

Time-->



#18

Methyl Acetate

Concen: 0.992 ug/l

RT: 4.01 min Scan# 695

Delta R.T. -0.28 min

Lab File: VN061104.D

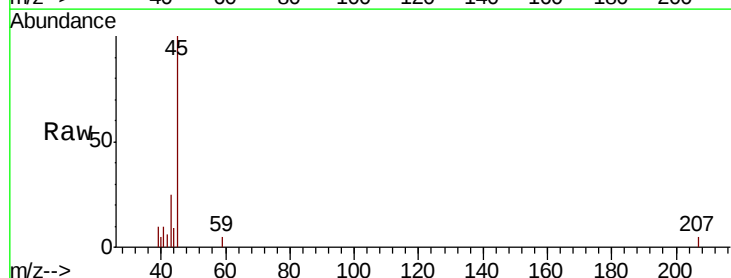
Acq: 20 Apr 2020 16:14

Tgt Ion: 43 Resp: 2543

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061104.D (-688) (-)

Ion 74.00 (73.70 to 74.70): VN061104.D (-688) (-)

1000

800

600

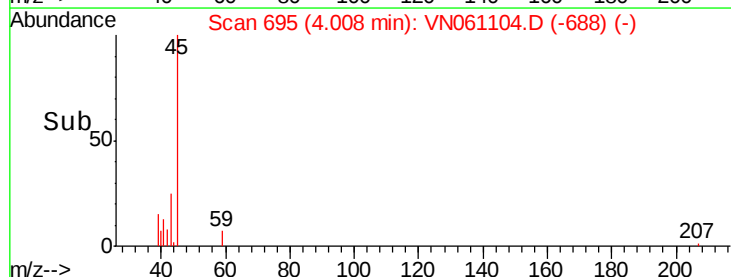
400

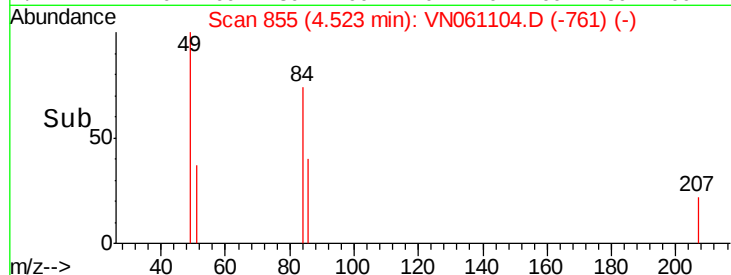
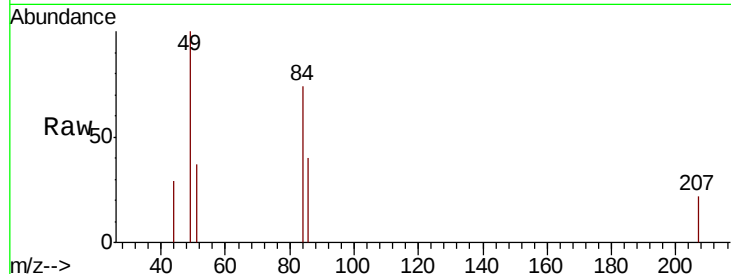
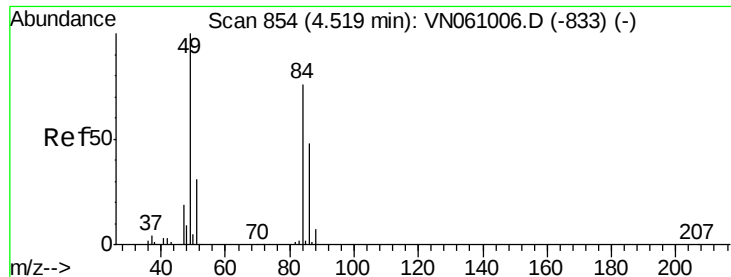
200

0

3.95 4.00 4.05 4.10

Time-->

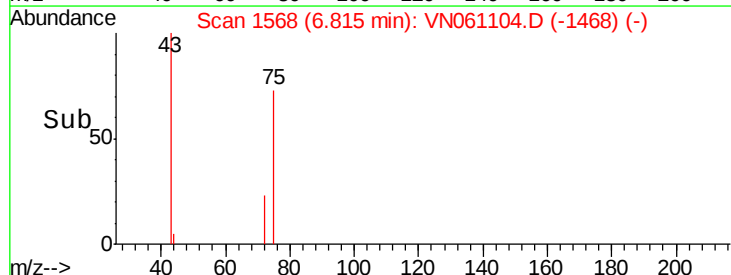
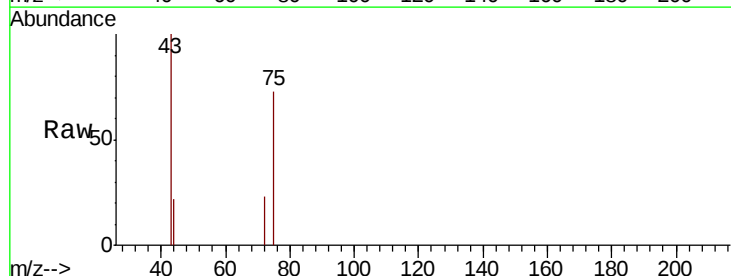
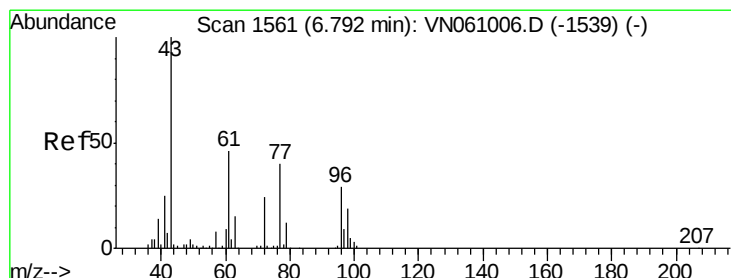
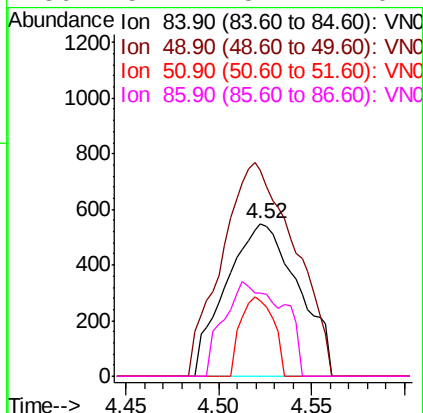




#20
Methvlene Chloride
Concen: 0.837 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

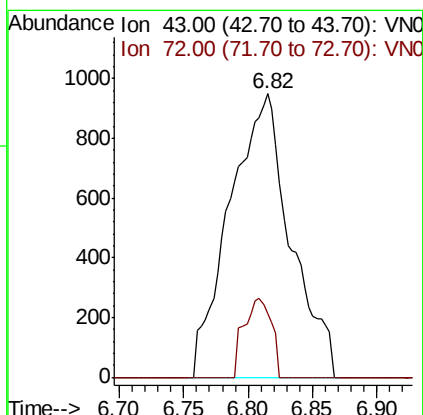
Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

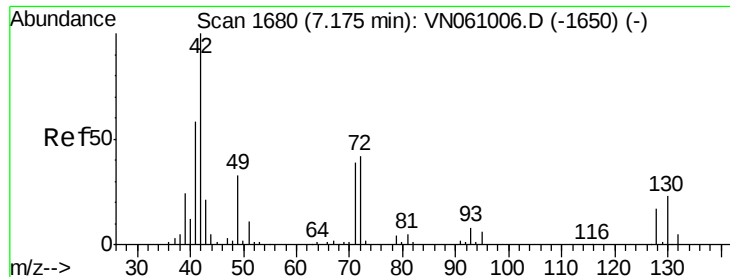
Tot Ion: 84 Resp: 1494
Ion Ratio Lower Upper
84 100
49 135.1 105.8 158.6
51 49.8 32.4 48.6#
86 54.4 51.1 76.7



#25
2-Butanone
Concen: 2.484 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

Tgt Ion: 43 Resp: 3113
Ion Ratio Lower Upper
43 100
72 22.6 19.6 29.4





#29

Tetrahydrofuran

Concen: 1.240 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN061104.D

Acq: 20 Apr 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

FB-SO-2020-04-16

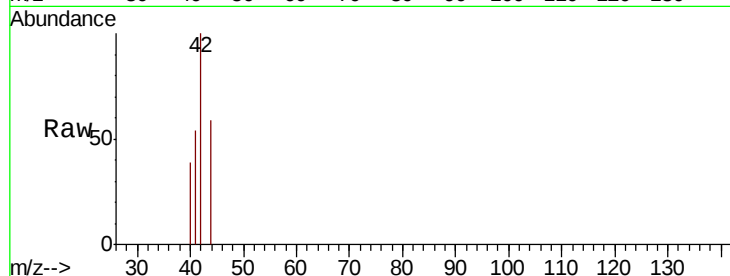
Tot Ion: 42 Resp: 1055

Ion Ratio Lower Upper

42 100

72 12.6 32.1 48.1#

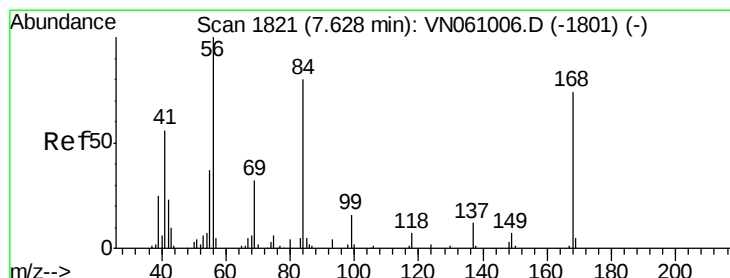
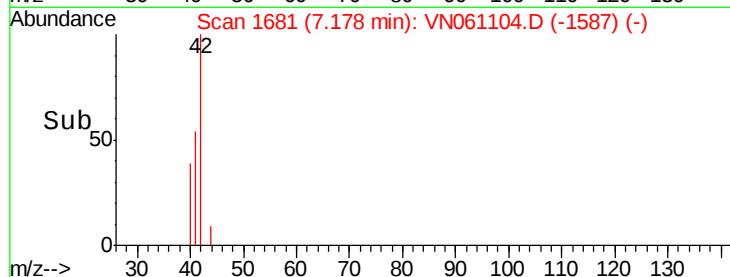
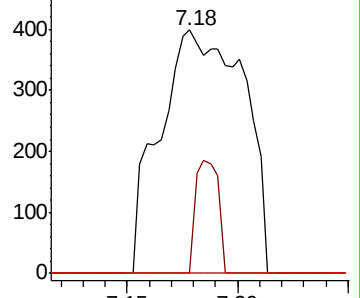
71 0.0 30.5 45.7#



Abundance Ion 42.00 (41.70 to 42.70): VN061104.D (-1680) (-)

Ion 72.00 (71.70 to 72.70): VN061104.D (-1680) (-)

Ion 71.00 (70.70 to 71.70): VN061104.D (-1680) (-)



#31

Cyclohexane

Concen: 0.869 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN061104.D

Acq: 20 Apr 2020 16:14

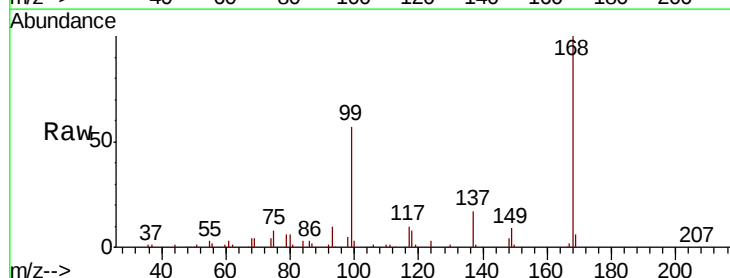
Tgt Ion: 56 Resp: 3009

Ion Ratio Lower Upper

56 100

69 173.6 25.6 38.4#

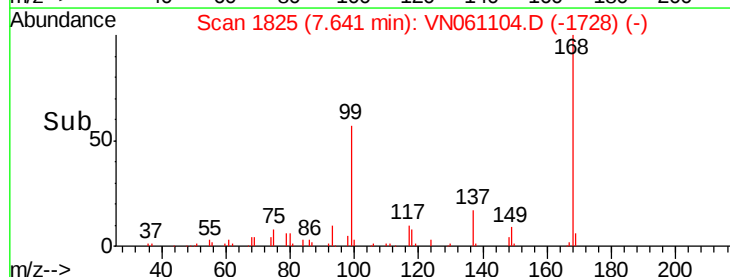
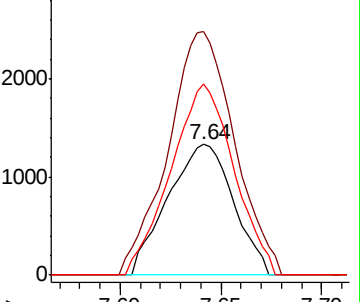
84 147.0 63.4 95.2#

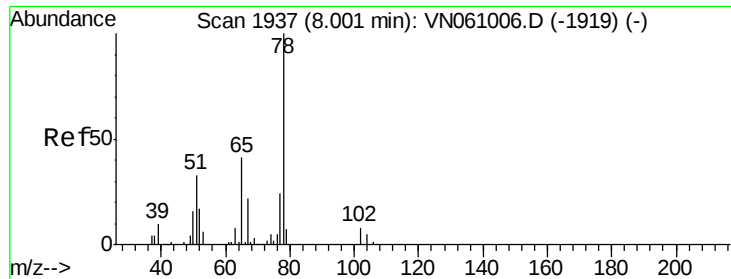


Abundance Ion 56.00 (55.70 to 56.70): VN061104.D (-1825) (-)

Ion 69.00 (68.70 to 69.70): VN061104.D (-1825) (-)

Ion 84.00 (83.70 to 84.70): VN061104.D (-1825) (-)

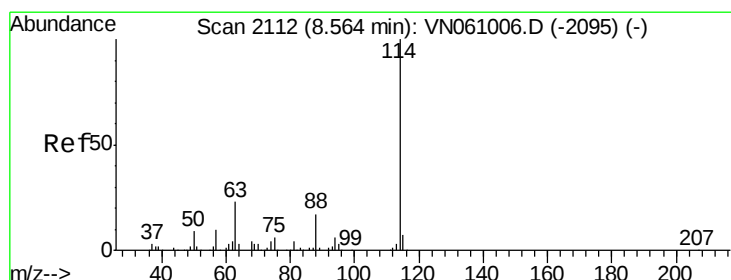
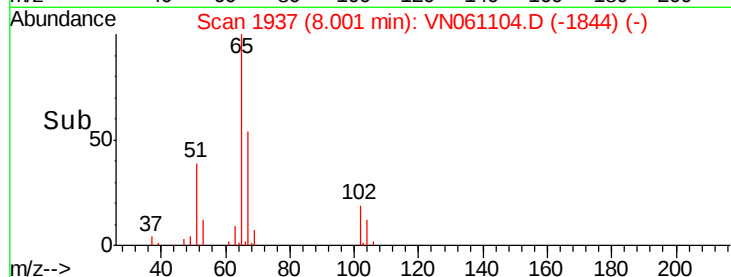
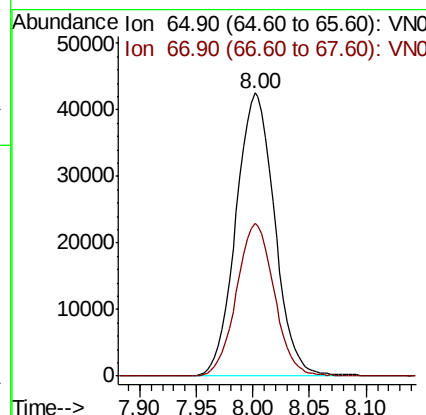
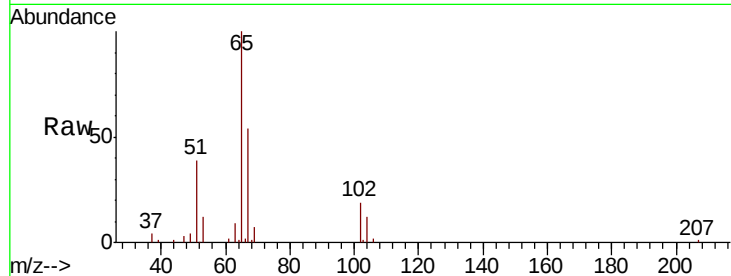




#33
 1,2-Dichloroethane-d4
 Concen: 54.437 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VN061104.D
 Acq: 20 Apr 2020 16:14

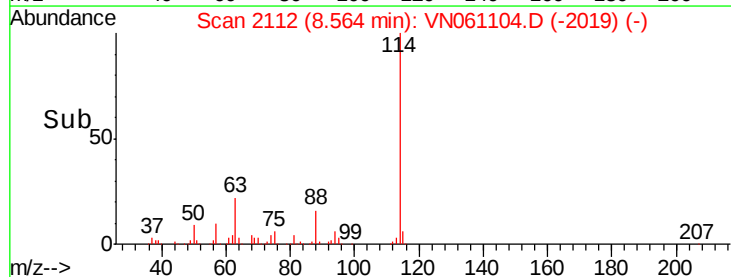
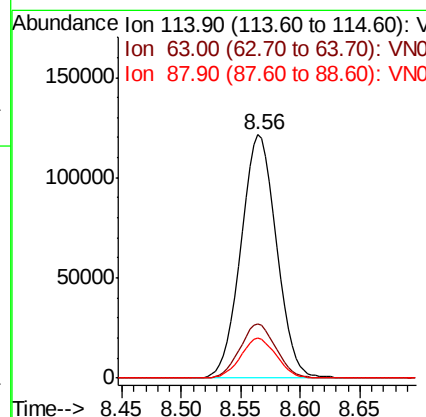
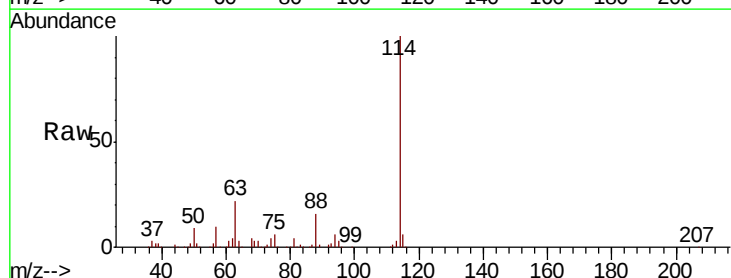
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-SO-2020-04-16

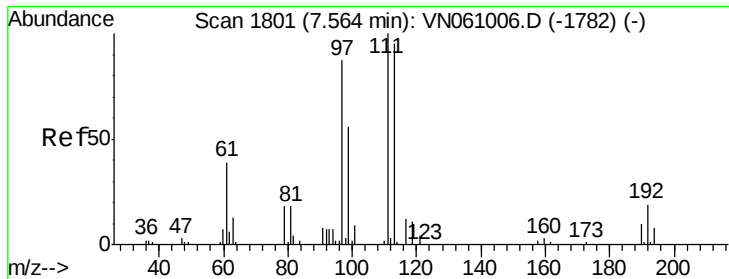
Tot Ion: 65 Resp: 101149
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061104.D
 Acq: 20 Apr 2020 16:14

Tgt Ion: 114 Resp: 252132
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 46.2
 88 16.4 0.0 33.4

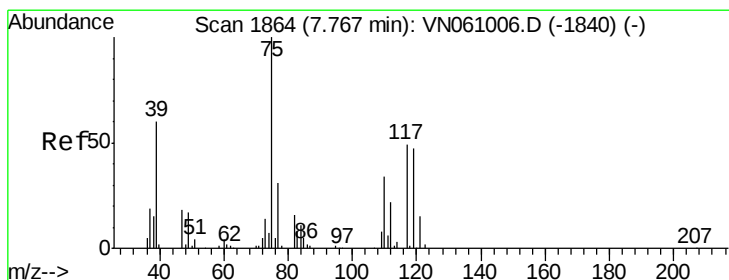
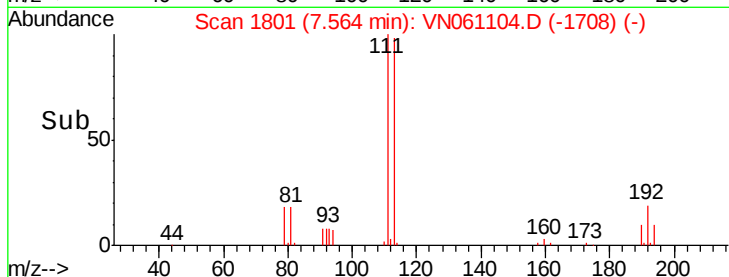
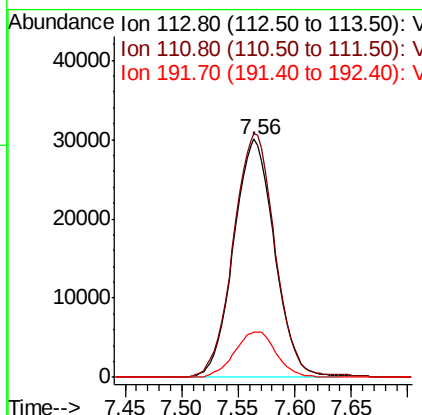
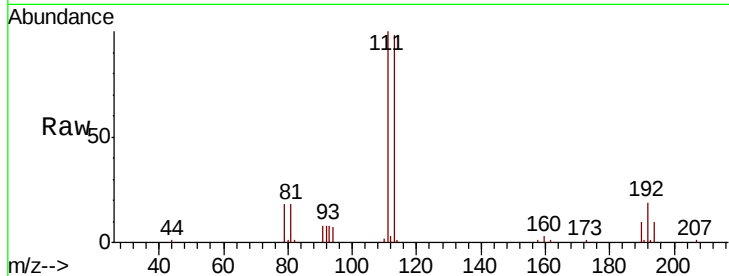




#35
Dibromofluoromethane
Concen: 51.461 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. 0.00 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

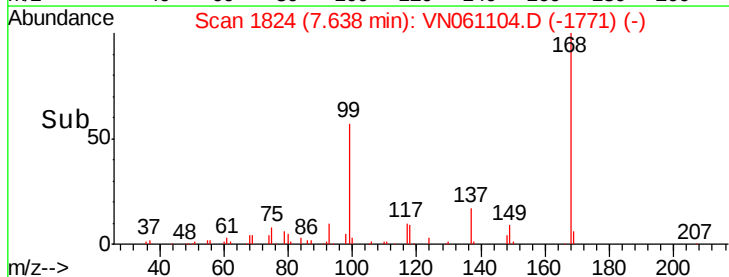
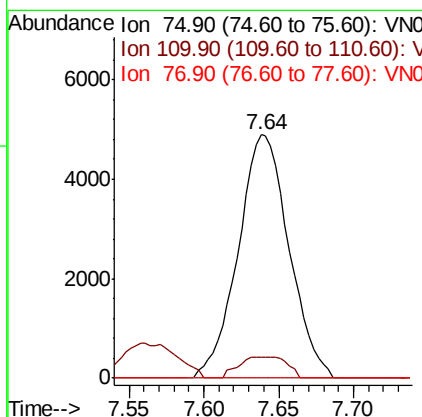
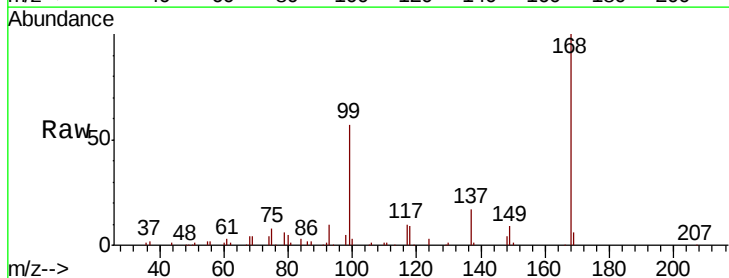
Instrument :
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ClientSampleId :
FB-SO-2020-04-16

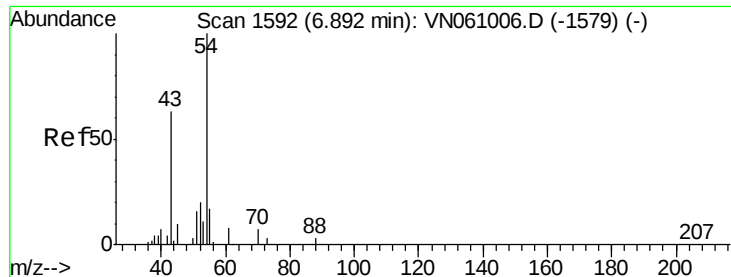
Tot Ion:113 Resp: 75772
Ion Ratio Lower Upper
113 100
111 104.1 83.4 125.2
192 19.4 15.5 23.3



#36
1,1-Dichloropropene
Concen: 4.437 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.13 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

Tgt Ion: 75 Resp: 11543
Ion Ratio Lower Upper
75 100
110 8.2 16.8 50.3#
77 0.0 24.7 37.1#

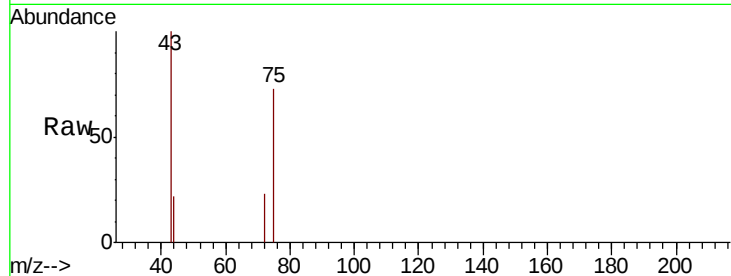




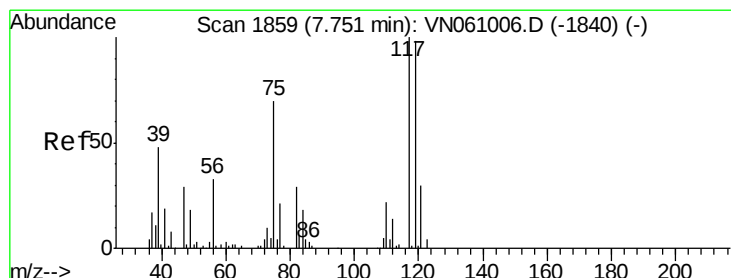
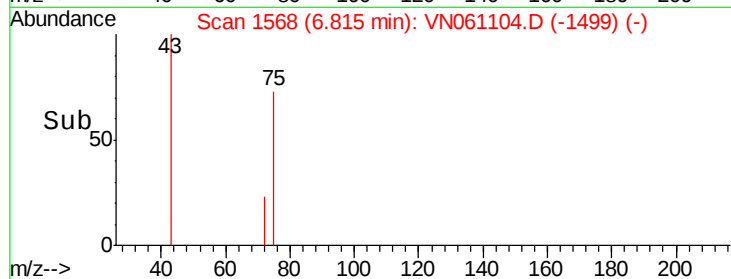
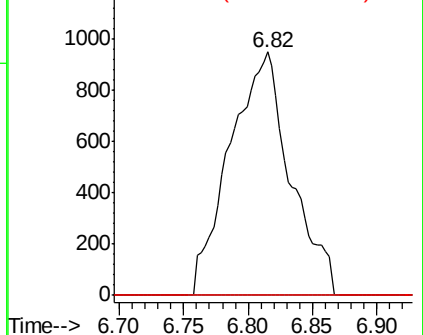
#37
Ethyl Acetate
Concen: 1.102 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. -0.08 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

Tot Ion: 43 Resp: 3113
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#

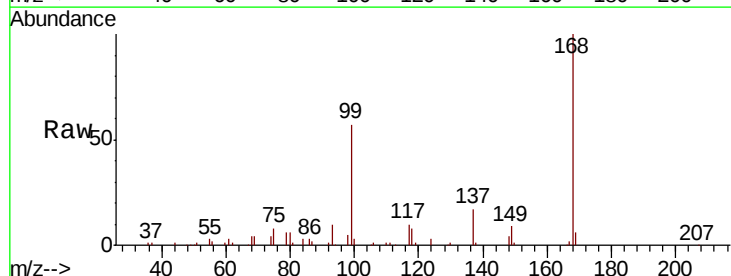


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

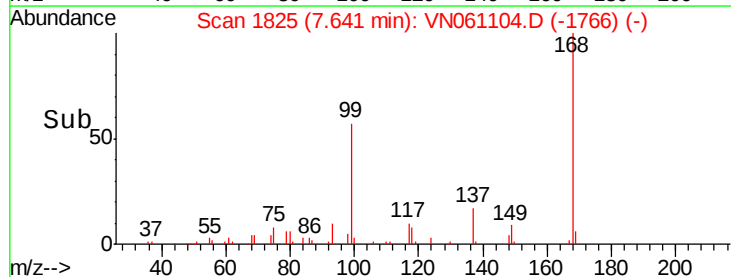
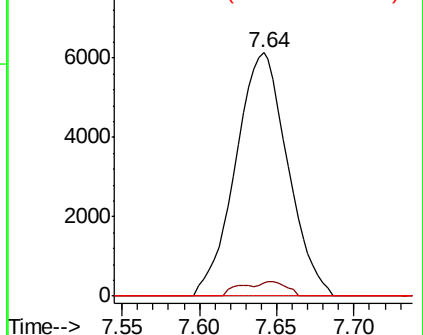


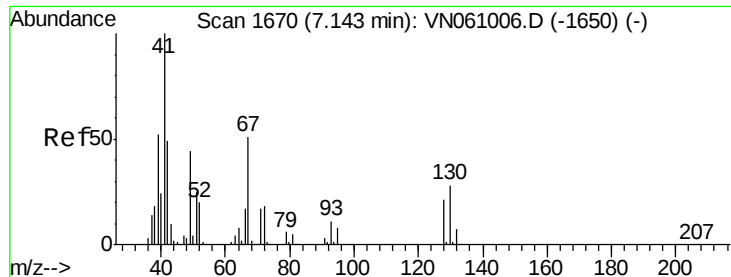
#38
Carbon Tetrachloride
Concen: 6.614 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

Tgt Ion: 117 Resp: 14323
Ion Ratio Lower Upper
117 100
119 5.3 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

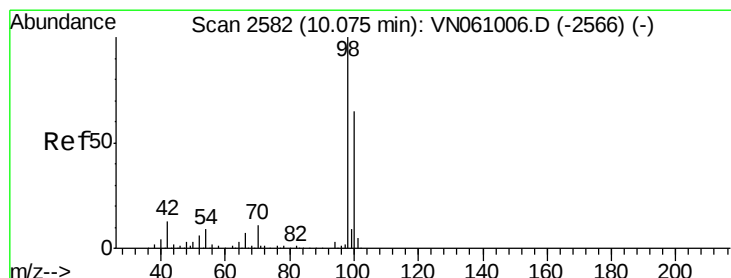
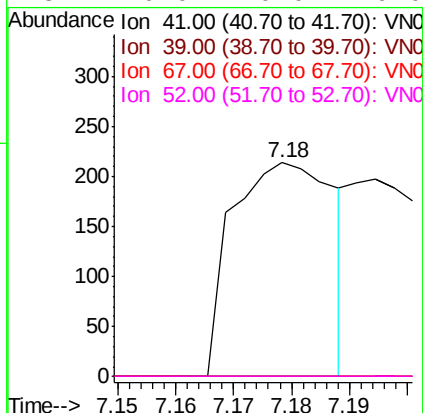
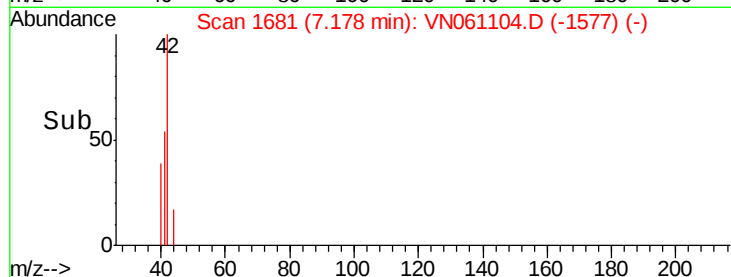
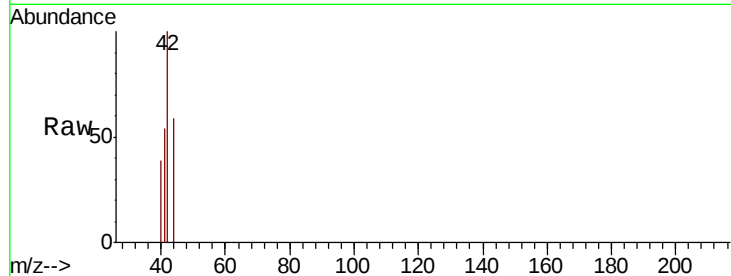




#41
Methacrylonitrile
Concen: 0.221 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.04 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

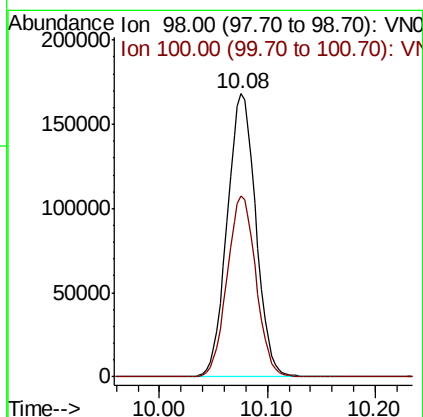
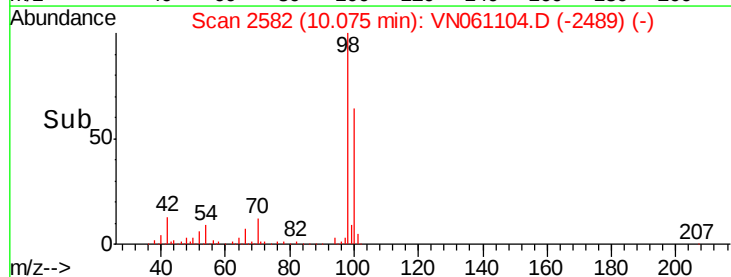
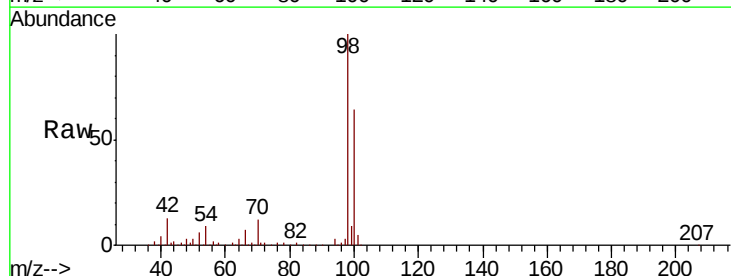
Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

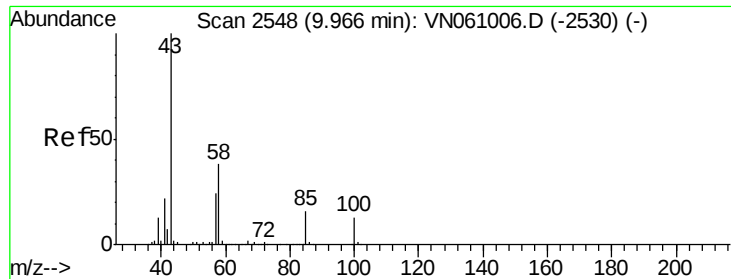
Tot Ion:	41	Resp:	261
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: 56.006 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

Tgt Ion:	98	Resp:	311618
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 1.431 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061104.D

Acq: 20 Apr 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

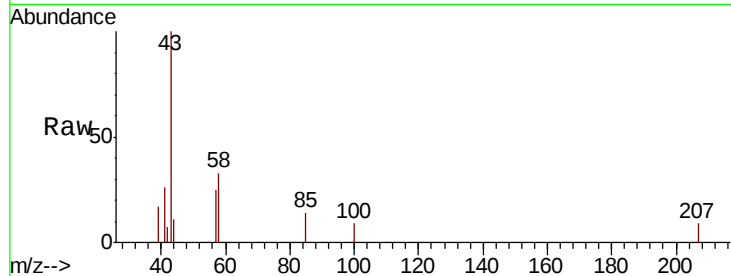
FB-SO-2020-04-16

Tot Ion: 43 Resp: 3789

Ion Ratio Lower Upper

43 100

58 32.3 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN061104.D (-2530) (-)

Ion 58.00 (57.70 to 58.70): VN061104.D (-2530) (-)

9.97

2000

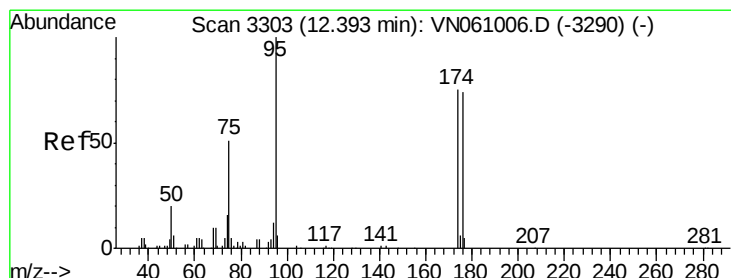
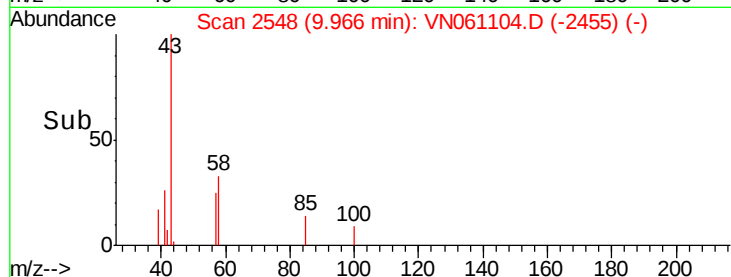
1500

1000

500

0

Time--> 9.90 9.95 10.00



#62

4-Bromofluorobenzene

Concen: 52.083 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.00 min

Lab File: VN061104.D

Acq: 20 Apr 2020 16:14

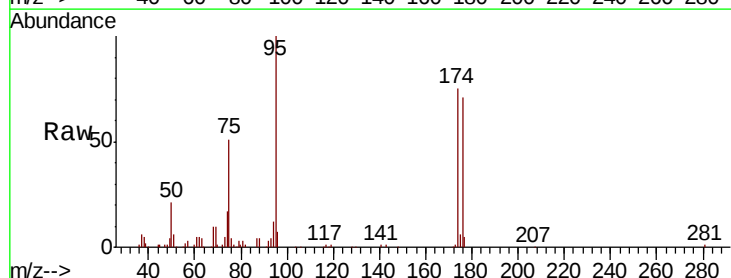
Tgt Ion: 95 Resp: 113576

Ion Ratio Lower Upper

95 100

174 76.5 0.0 151.2

176 73.7 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN061104.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061104.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061104.D (-3290) (-)

12.39

80000

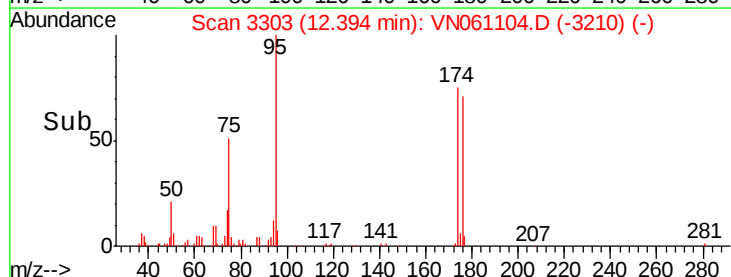
60000

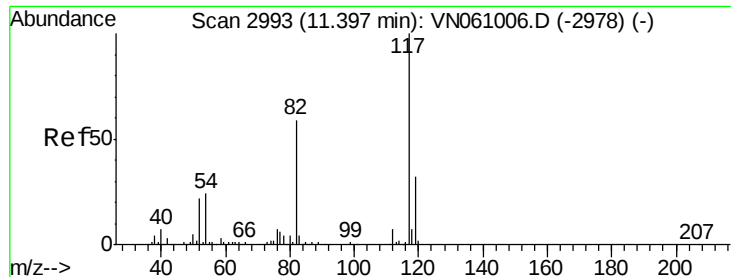
40000

20000

0

Time--> 12.35 12.40 12.45

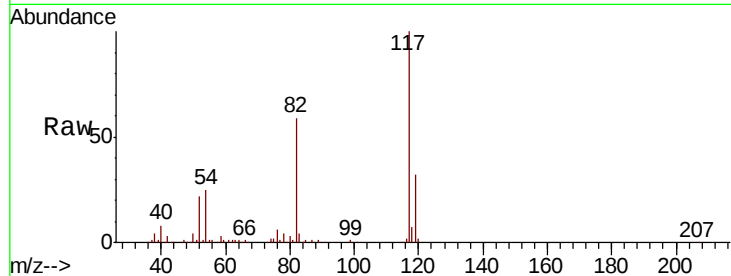




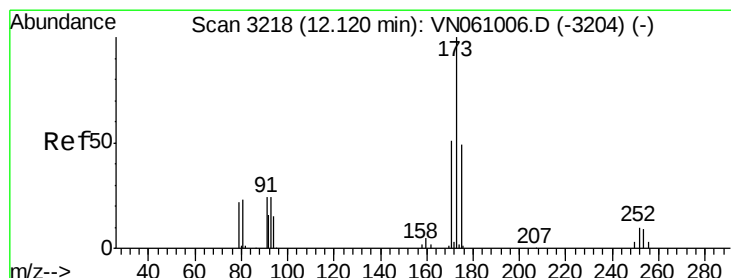
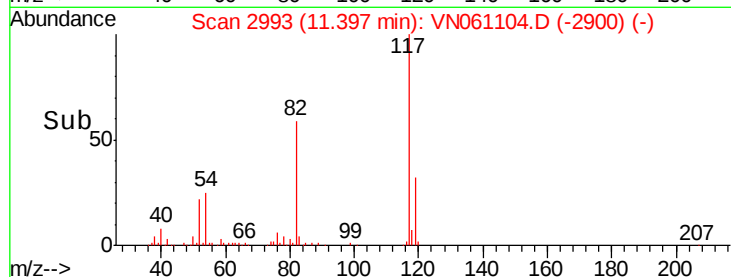
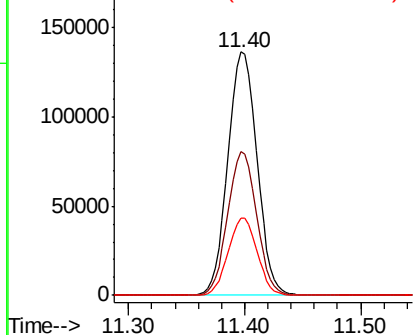
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

Tot Ion:117 Resp: 237351
Ion Ratio Lower Upper
117 100
82 58.9 47.1 70.7
119 31.8 25.7 38.5

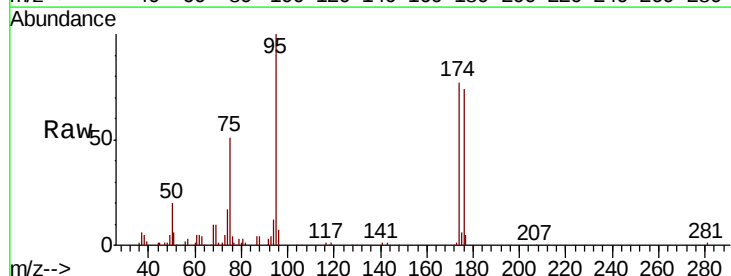


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

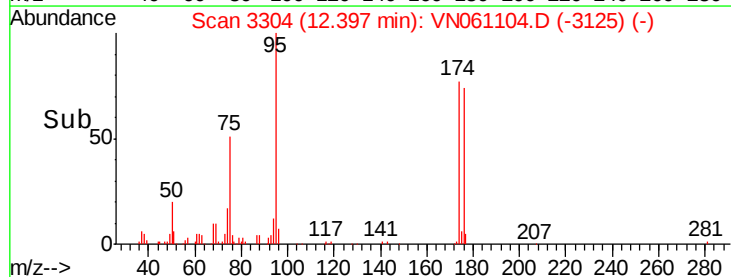
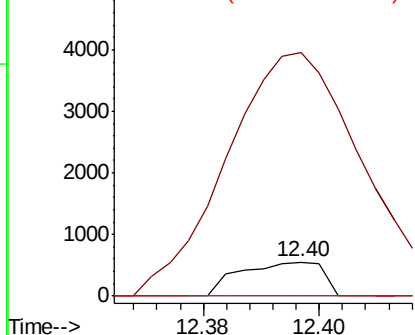


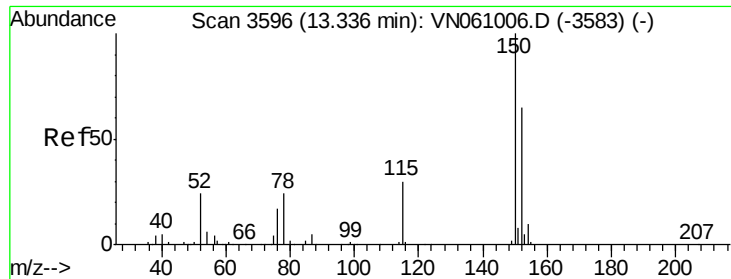
#71
Bromoform
Concen: 0.412 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN061104.D
Acq: 20 Apr 2020 16:14

Tgt Ion:173 Resp: 539
Ion Ratio Lower Upper
173 100
175 1031.2 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# 3597

Delta R.T. 0.00 min

Lab File: VN061104.D

Acq: 20 Apr 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

FB-SO-2020-04-16

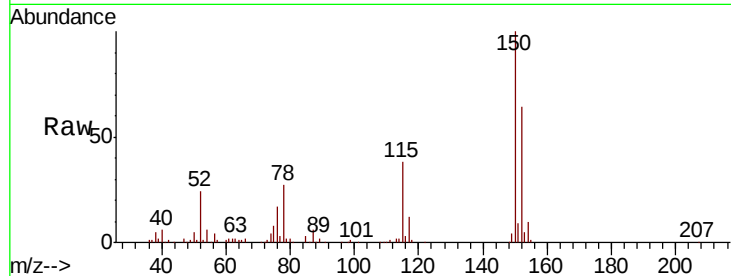
Tot Ion:152 Resp: 102371

Ion Ratio Lower Upper

152 100

115 60.3 30.8 92.4

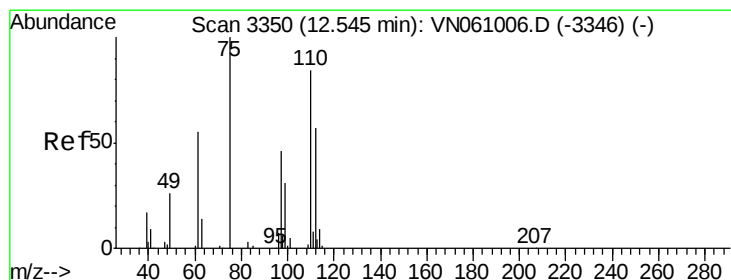
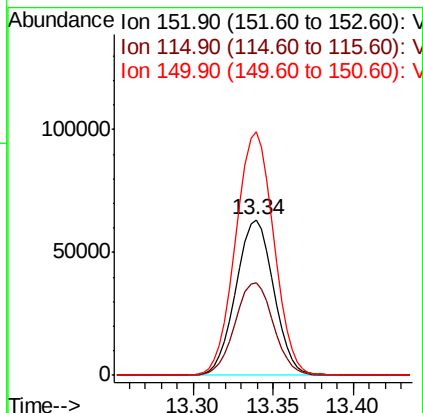
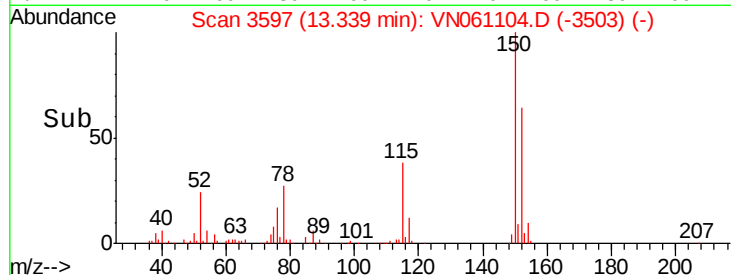
150 157.7 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 25.897 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061104.D

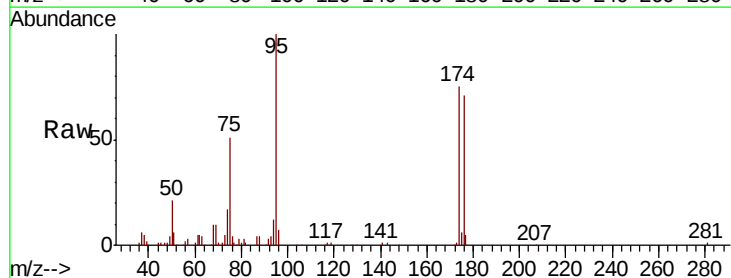
Acq: 20 Apr 2020 16:14

Tgt Ion: 75 Resp: 58313

Ion Ratio Lower Upper

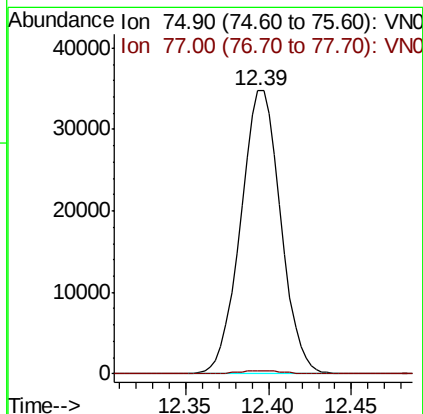
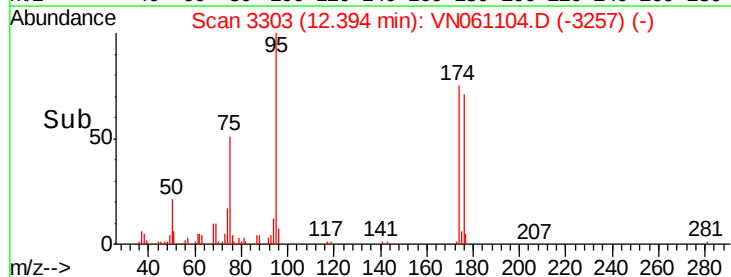
75 100

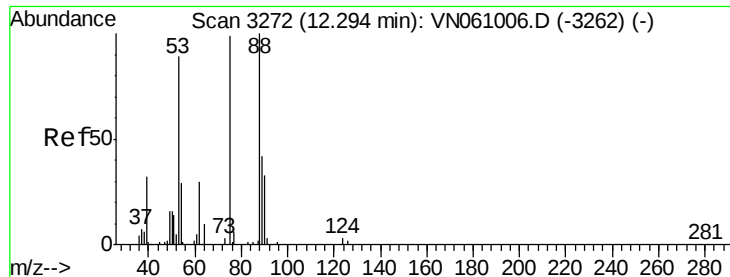
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 63.877 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061104.D

Acq: 20 Apr 2020 16:14

Instrument :

MSVOA_N

ClientSampleId :

FB-SO-2020-04-16

Tot Ion: 75 Resp: 58313

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#

