

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055164.D
 Acq On : 20 Apr 2019 2:19
 Operator : JC/SP
 Sample : K2202-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-06-041819-B

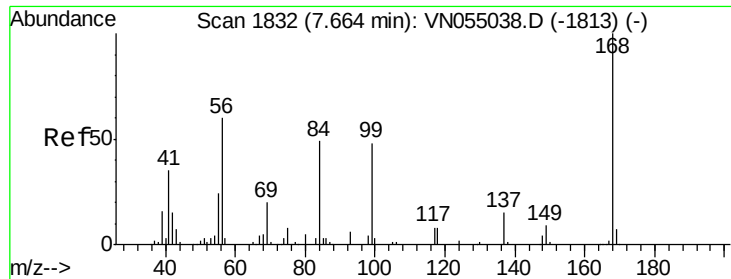
Quant Time: Apr 20 04:30:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	670341	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1018400	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	738839	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	222096	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	400841	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	
35) Dibromofluoromethane	7.59	113	319957	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	
50) Toluene-d8	10.09	98	1169560	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
62) 4-Bromofluorobenzene	12.40	95	300150	37.90	ug/l	0.00
Spiked Amount			Recovery	=	75.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	4607	1.905	ug/l	99
18) Methyl Acetate	4.34	43	7444	0.636	ug/l #	78
20) Methylene Chloride	4.55	84	55848	6.569	ug/l	90
25) 2-Butanone	6.85	43	1006	0.279	ug/l #	53
30) Chloroform	7.36	83	2778	0.201	ug/l	93
31) Cyclohexane	7.67	56	14000	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	50325	5.242	ug/l #	50
38) Carbon Tetrachloride	7.67	117	63406	6.942	ug/l #	16
43) Isopropyl Acetate	8.21	43	45691	3.794	ug/l #	64
45) 1,2-Dichloropropane	9.27	63	1701	0.211	ug/l #	44
48) Methyl methacrylate	9.18	41	7999	1.340	ug/l #	17
49) 1,4-Dioxane	9.27	88	30	0.536	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5131	0.737	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	55411	5.395	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	10968	1.009	ug/l #	43
59) 2-Hexanone	10.76	43	177674	40.658	ug/l #	54
74) N-amyl acetate	11.88	43	17919	3.230	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	149795	37.507	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4161	0.262	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	149795	149.984	ug/l #	2
95) Naphthalene	15.13	128	1718	3.282	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

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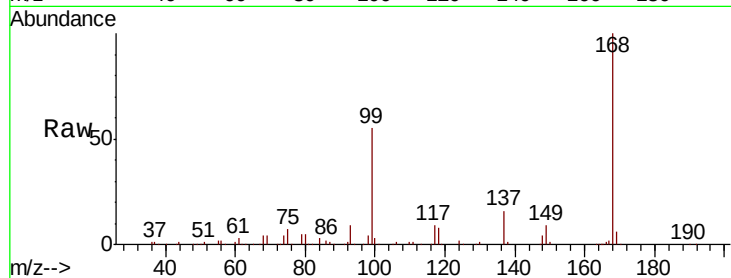
SA-06-041819-B

Tot Ion:168 Resp: 670341

Ion Ratio Lower Upper

168 100

99 55.5 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055038.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055038.D (-1813) (-)

7.67

300000

250000

200000

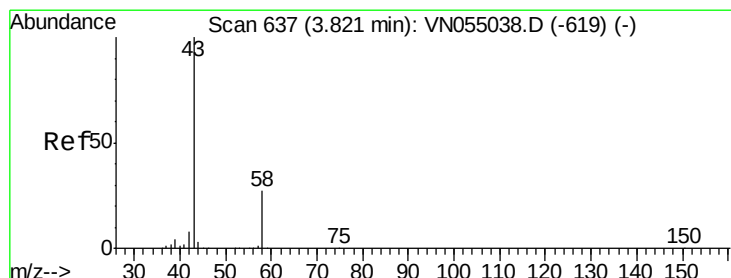
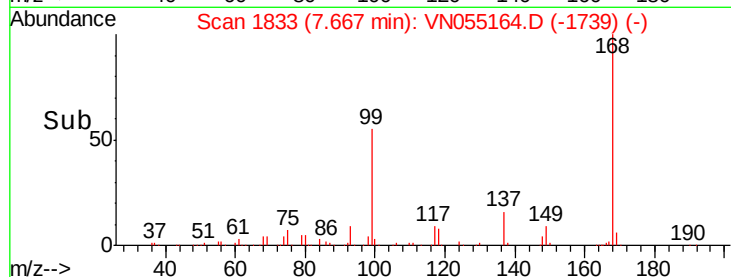
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#16

Acetone

Concen: 1.905 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055164.D

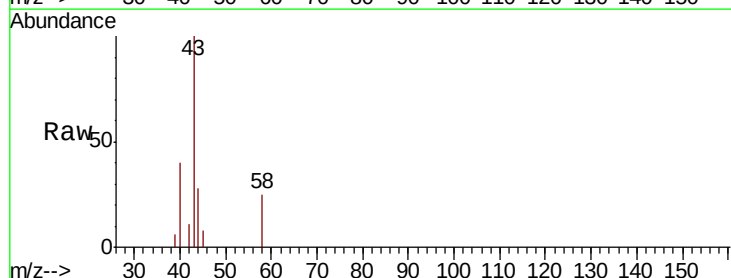
Acq: 20 Apr 2019 2:19

Tgt Ion: 43 Resp: 4607

Ion Ratio Lower Upper

43 100

58 26.6 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-619) (-)

Ion 58.00 (57.70 to 58.70): VN055038.D (-619) (-)

3.82

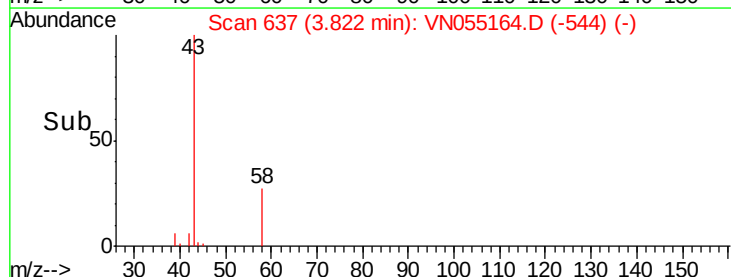
3000

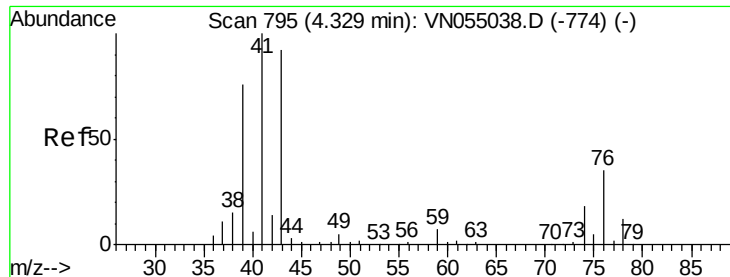
2000

1000

0

Time--> 3.75 3.80 3.85





#18

Methvl Acetate

Concen: 0.636 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

Instrument :

MSVOA_N

ClientSampleId :

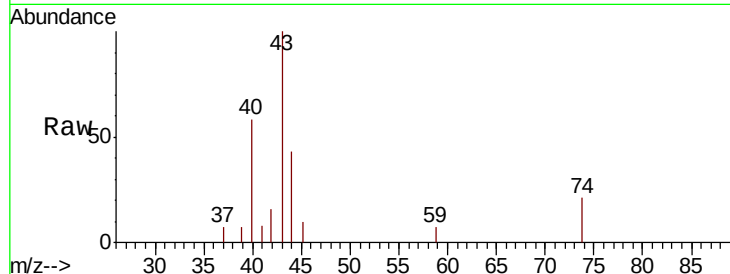
SA-06-041819-B

Tot Ion: 43 Resp: 7444

Ion Ratio Lower Upper

43 100

74 9.9 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055164.D (-702) (-)

Ion 74.00 (73.70 to 74.70): VN055164.D (-702) (-)

2500

2000

1500

1000

500

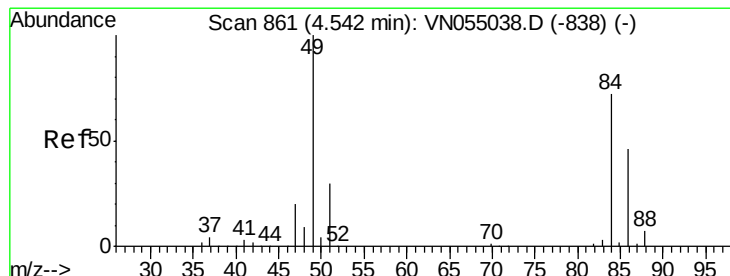
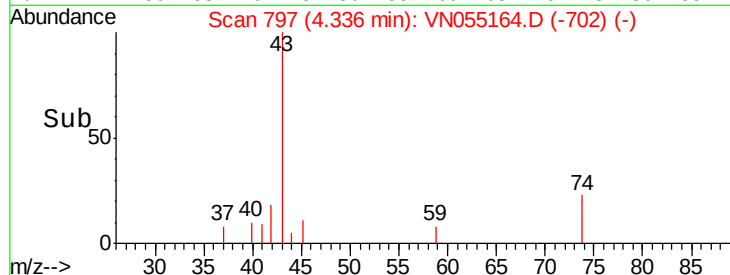
0

4.20

4.30

4.40

Time-->



#20

Methylene Chloride

Concen: 6.569 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.01 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

Tgt Ion: 84 Resp: 55848

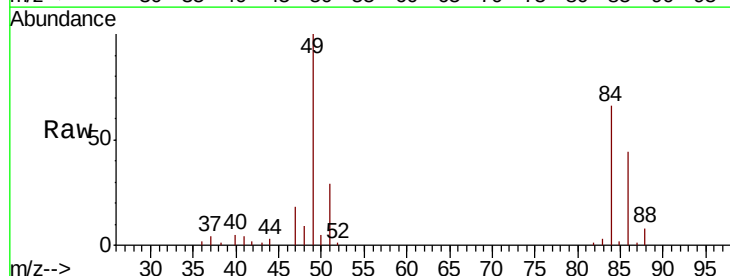
Ion Ratio Lower Upper

84 100

49 152.6 109.4 164.2

51 43.7 32.2 48.4

86 66.8 49.3 73.9



Abundance Ion 83.90 (83.60 to 84.60): VN055164.D (-768) (-)

Ion 48.90 (48.60 to 49.60): VN055164.D (-768) (-)

Ion 50.90 (50.60 to 51.60): VN055164.D (-768) (-)

Ion 85.90 (85.60 to 86.60): VN055164.D (-768) (-)

40000

30000

20000

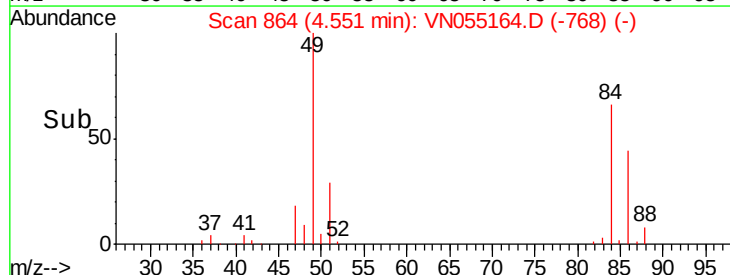
10000

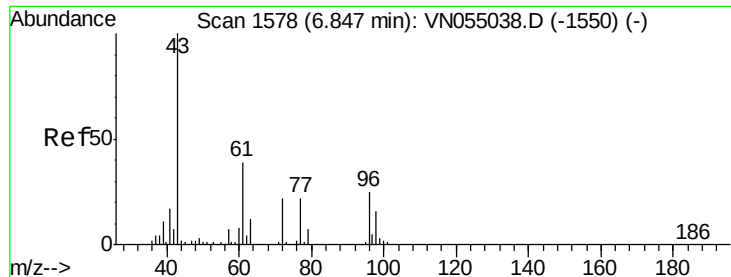
0

4.50

4.60

Time-->

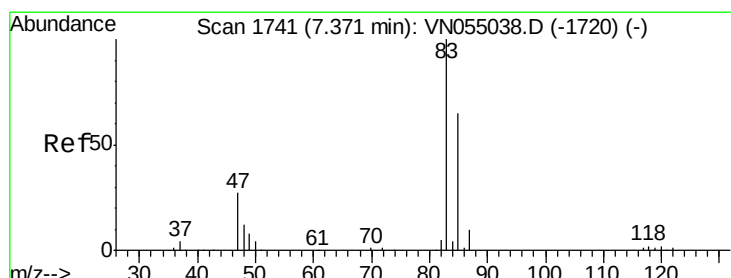
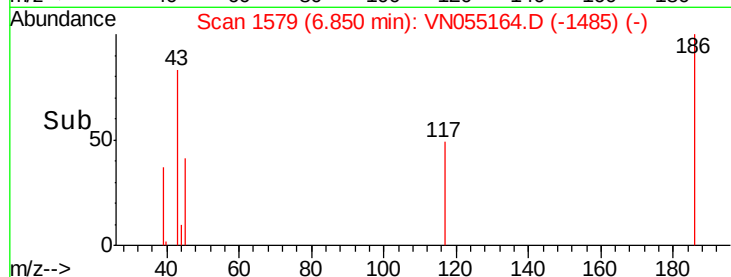
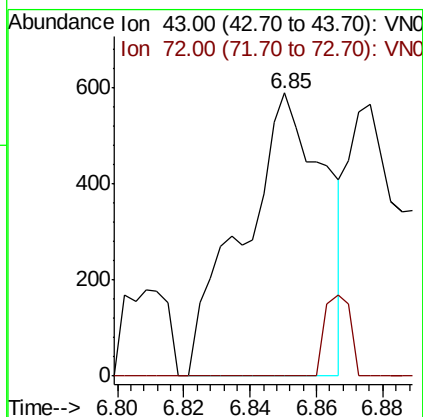
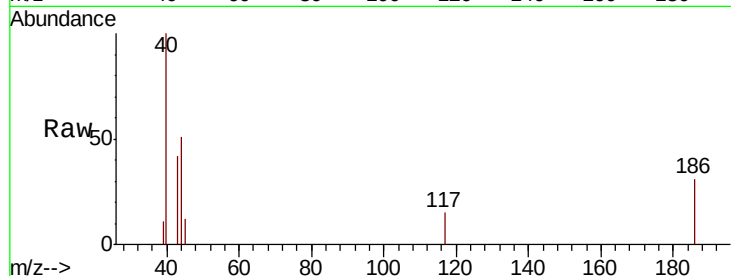




#25
2-Butanone
Concen: 0.279 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VN055164.D
Acq: 20 Apr 2019 2:19

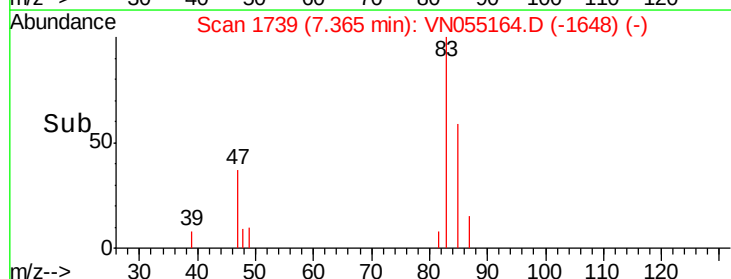
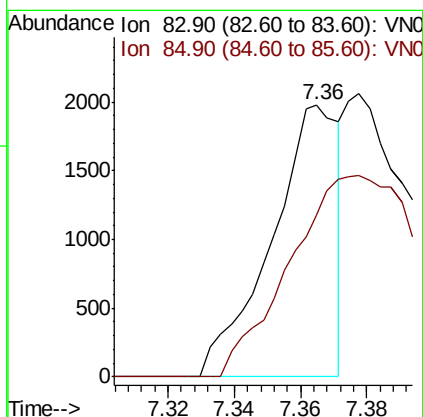
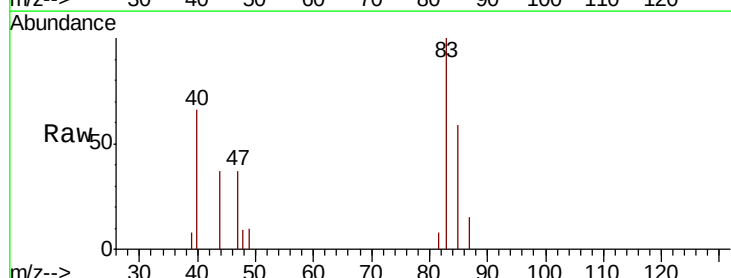
Instrument :
MSVOA_N
ClientSampleId :
SA-06-041819-B

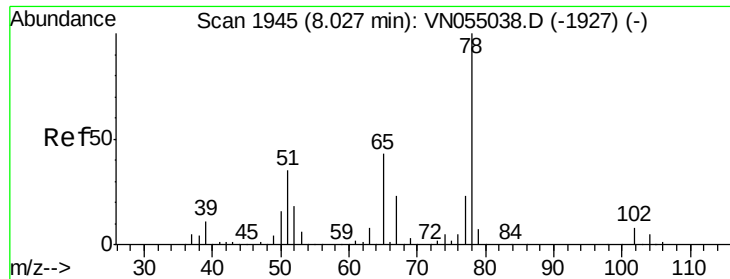
Tot Ion: 43 Resp: 1006
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1#



#30
Chloroform
Concen: 0.201 ug/l
RT: 7.36 min Scan# 1739
Delta R.T. -0.01 min
Lab File: VN055164.D
Acq: 20 Apr 2019 2:19

Tgt Ion: 83 Resp: 2778
Ion Ratio Lower Upper
83 100
85 59.4 51.8 77.6





#33

1,2-Dichloroethane-d4

Concen: 44.985 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

Instrument :

MSVOA_N

ClientSampleId :

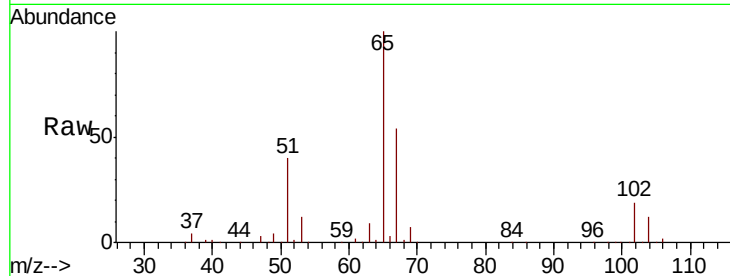
SA-06-041819-B

Tot Ion: 65 Resp: 400841

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VN055164.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN055164.D (-1852) (-)

8.03

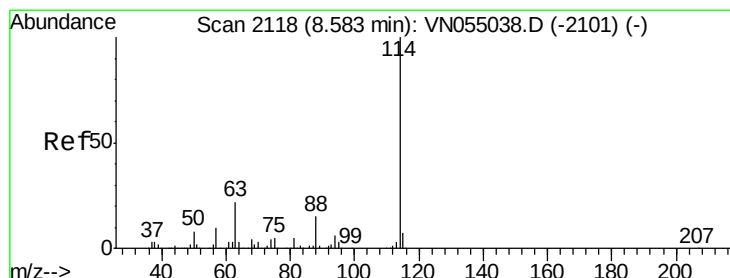
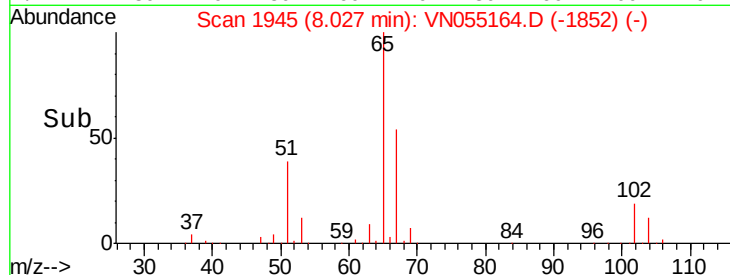
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

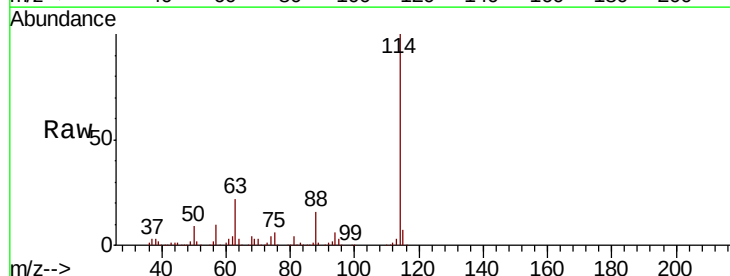
Tgt Ion: 114 Resp: 1018400

Ion Ratio Lower Upper

114 100

63 22.2 0.0 45.2

88 15.9 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): VN055164.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN055164.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN055164.D (-2025) (-)

8.59

600000

500000

400000

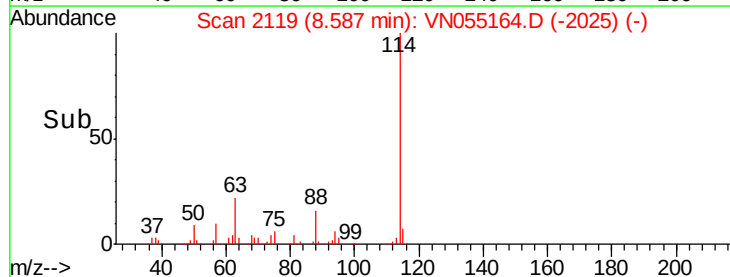
300000

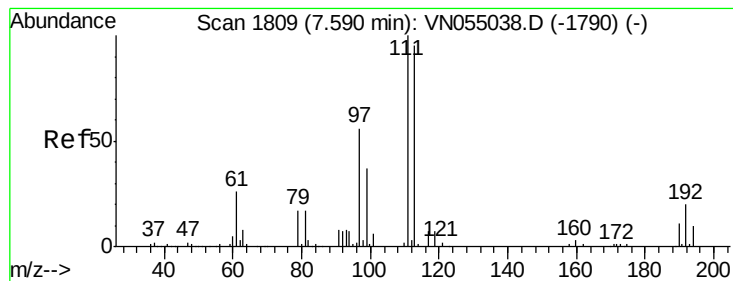
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 47.011 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

Instrument :

MSVOA_N

ClientSampled :

SA-06-041819-B

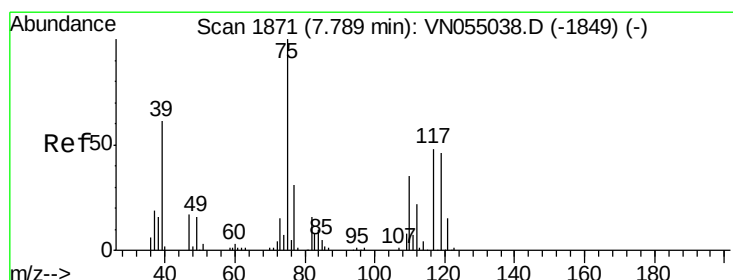
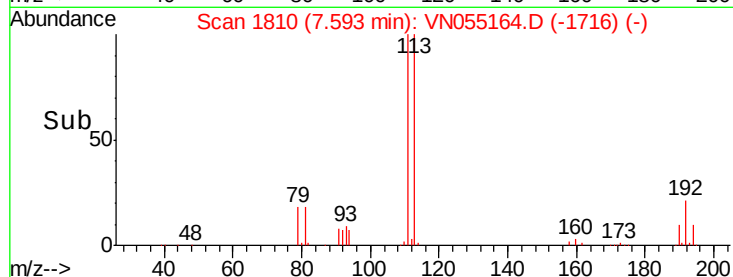
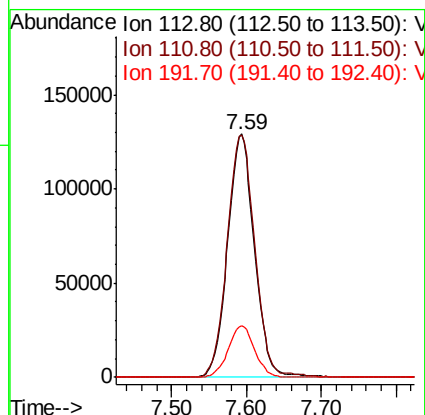
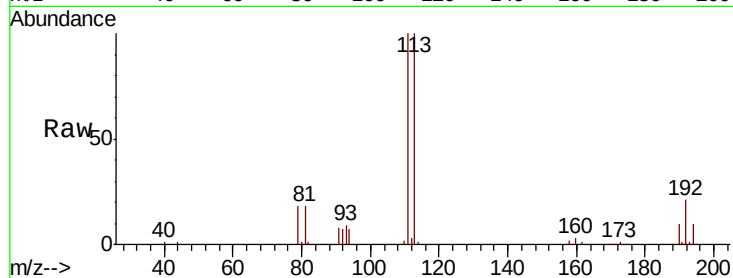
Tot Ion:113 Resp: 319957

Ion Ratio Lower Upper

113 100

111 102.8 82.1 123.1

192 20.9 16.5 24.7



#36

1,1-Dichloropropene

Concen: 5.242 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

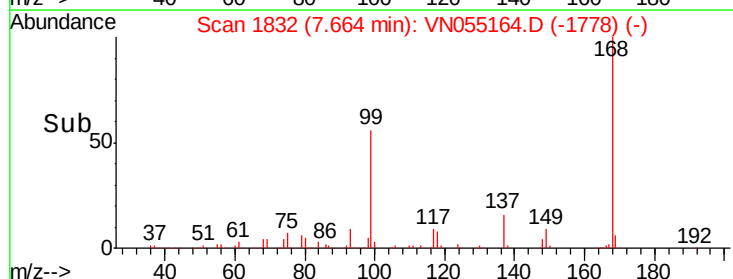
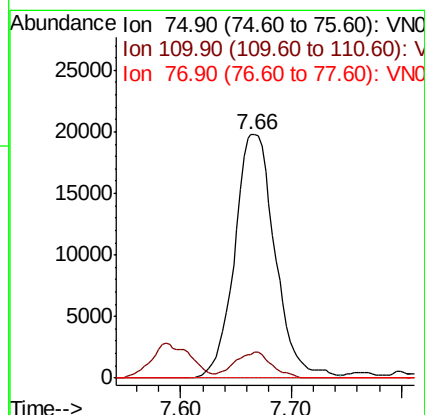
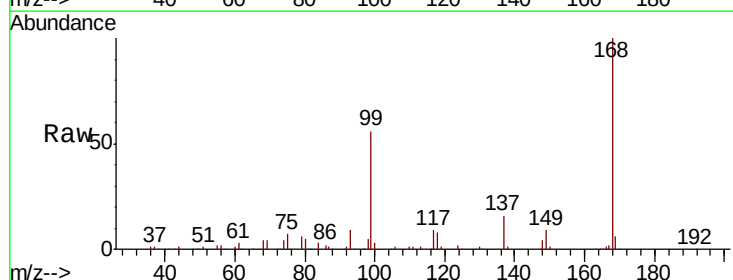
Tgt Ion: 75 Resp: 50325

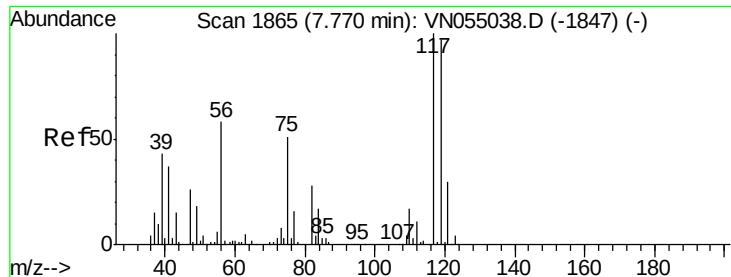
Ion Ratio Lower Upper

75 100

110 9.8 17.5 52.5#

77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.942 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

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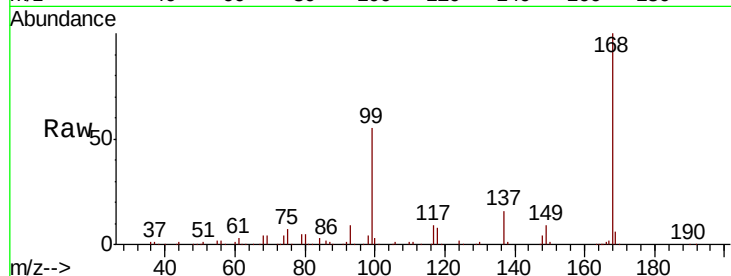
Tot Ion:117 Resp: 63406

Ion Ratio Lower Upper

117 100

119 4.6 76.3 114.5#

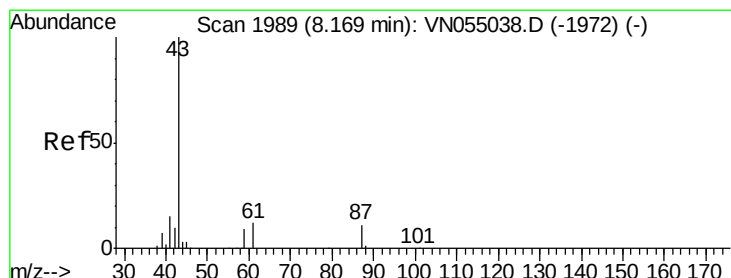
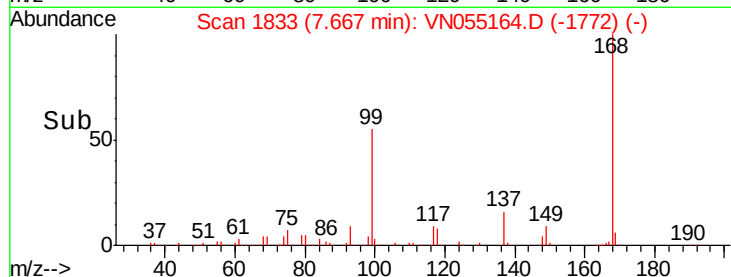
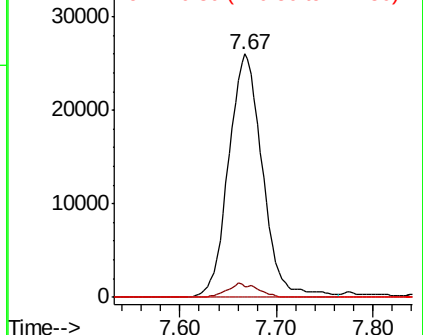
121 0.0 23.9 35.9#



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: 3.794 ug/l

RT: 8.21 min Scan# 2002

Delta R.T. 0.04 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

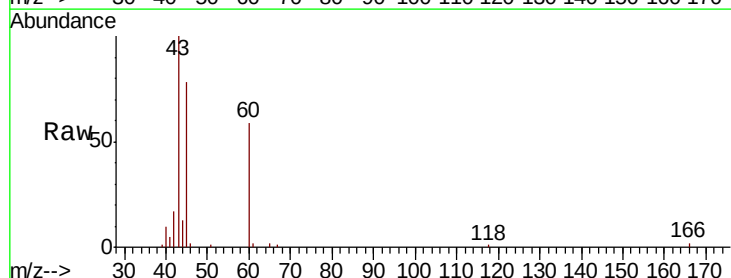
Tgt Ion: 43 Resp: 45691

Ion Ratio Lower Upper

43 100

61 0.0 14.3 21.5#

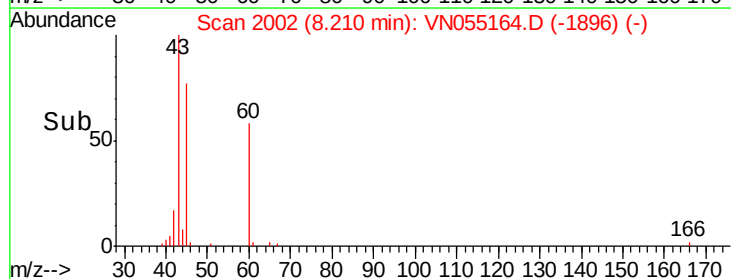
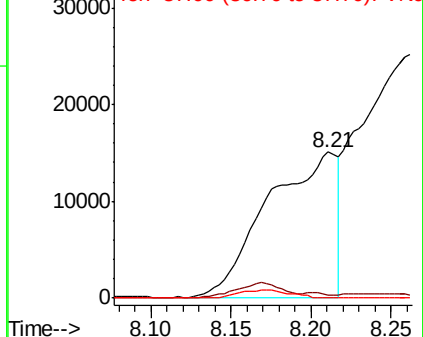
87 0.0 8.6 13.0#

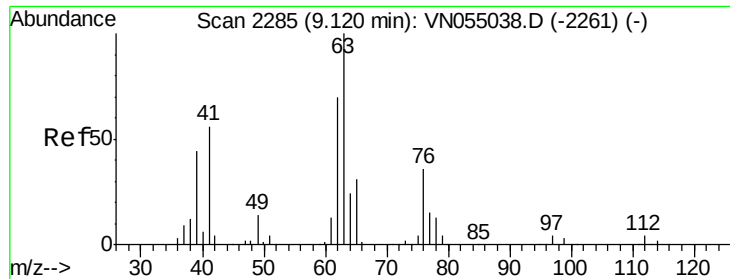


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

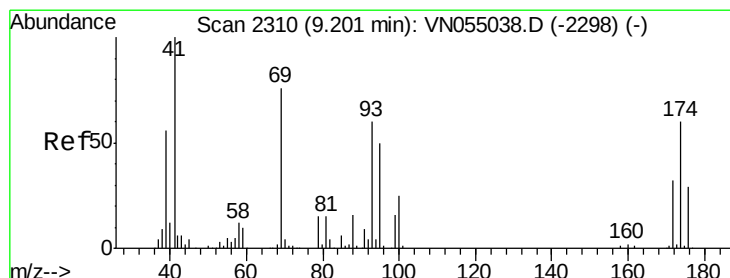
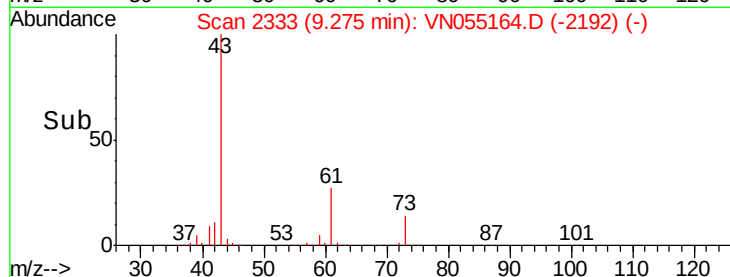
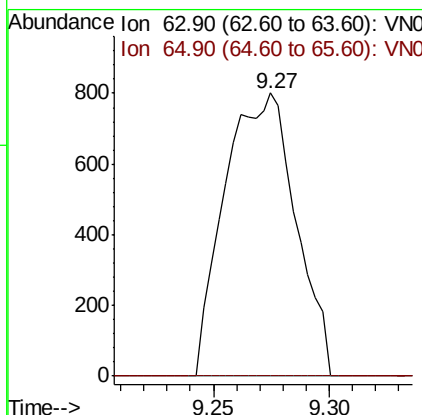
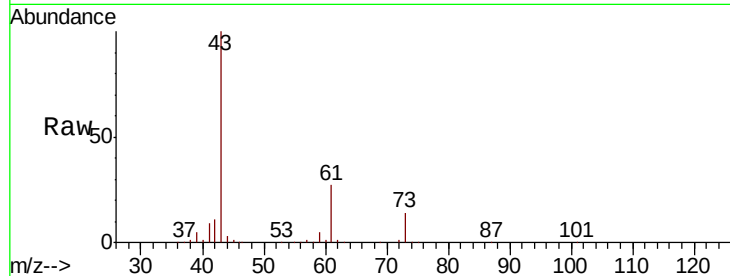




#45
 1,2-Dichloropropane
 Concen: 0.211 ug/l
 RT: 9.27 min Scan# 2333
 Delta R.T. 0.15 min
 Lab File: VN055164.D
 Acq: 20 Apr 2019 2:19

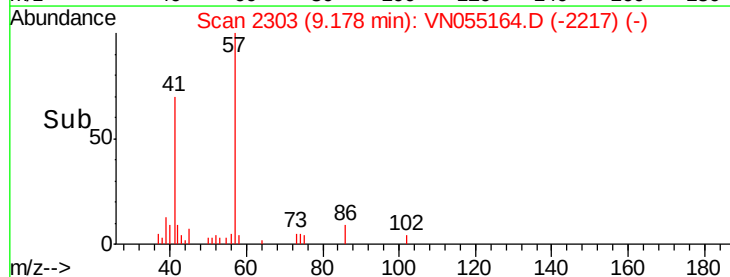
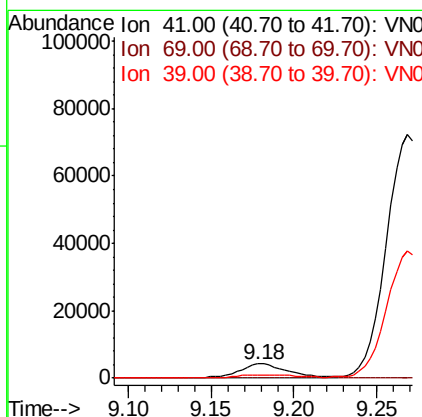
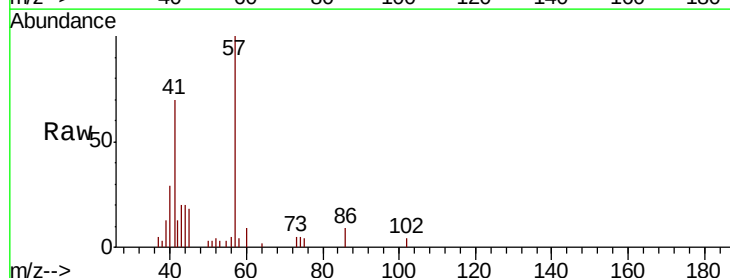
Instrument :
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 SA-06-041819-B

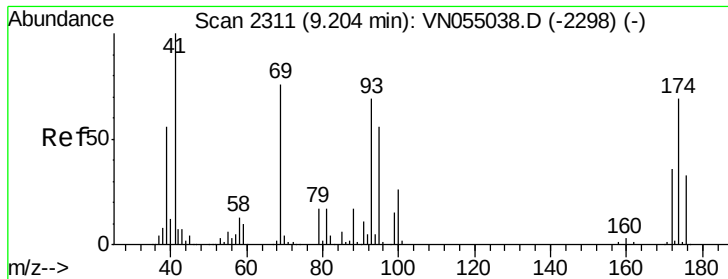
Tot Ion: 63 Resp: 1701
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.340 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN055164.D
 Acq: 20 Apr 2019 2:19

Tgt Ion: 41 Resp: 7999
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.5 90.7#
 39 0.0 43.9 65.9#





#49

1,4-Dioxane

Concen: 0.536 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.06 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

Instrument :

MSVOA_N

ClientSampleId :

SA-06-041819-B

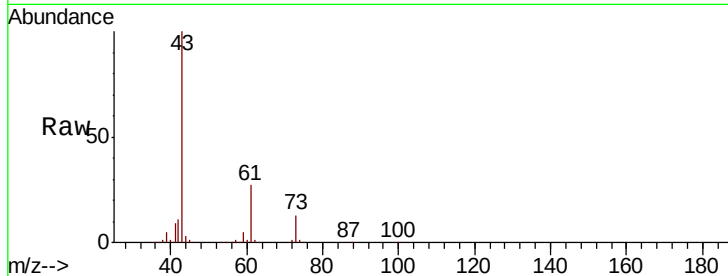
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 4877870.0 31.8 47.8#

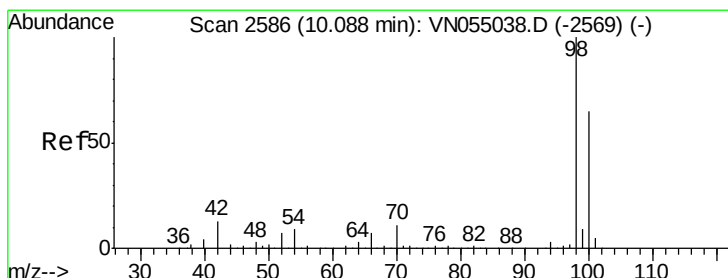
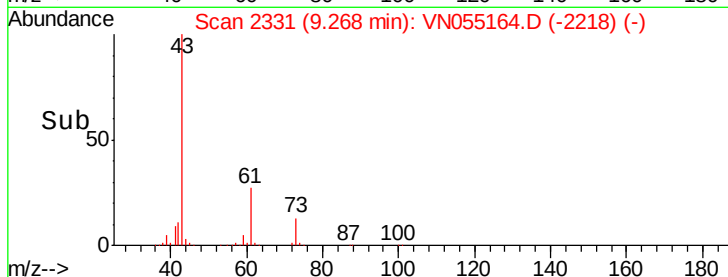
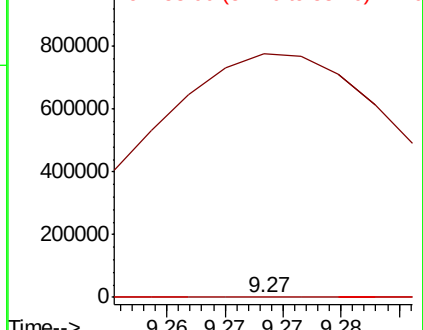
58 22560.0 61.6 92.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.013 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055164.D

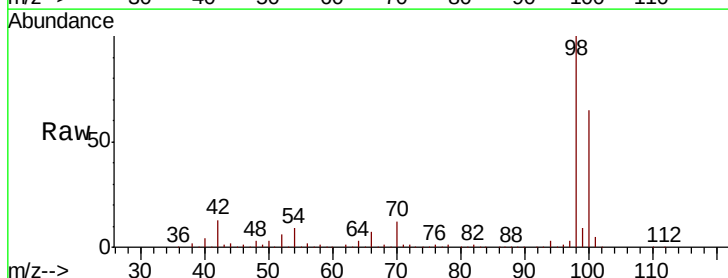
Acq: 20 Apr 2019 2:19

Tgt Ion: 98 Resp: 1169560

Ion Ratio Lower Upper

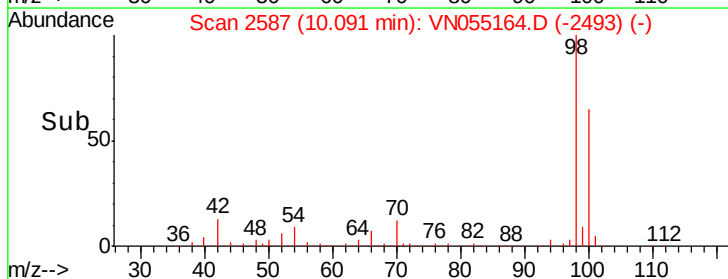
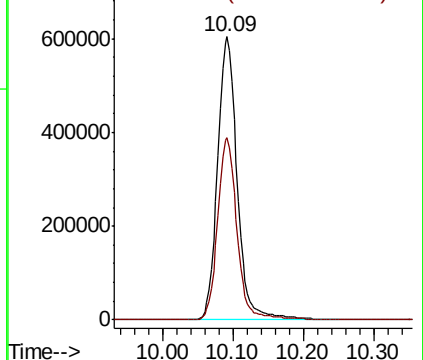
98 100

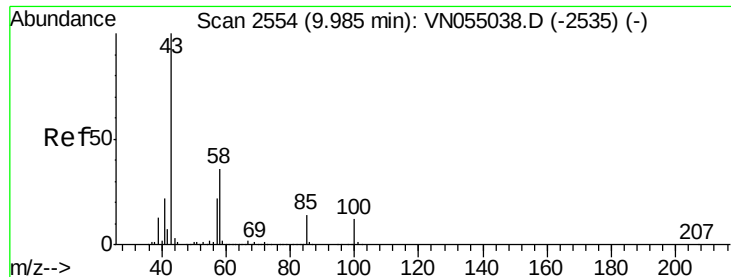
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

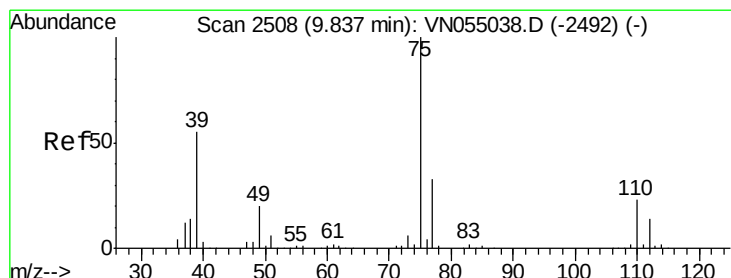
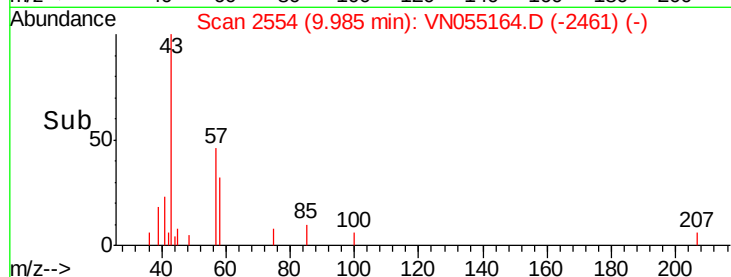
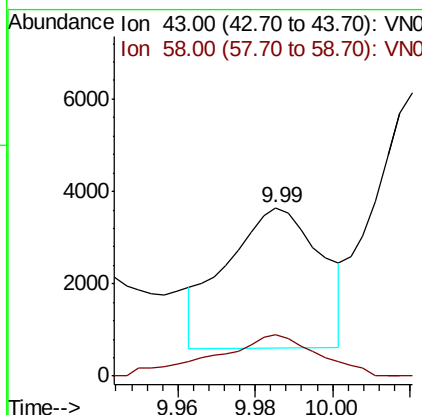
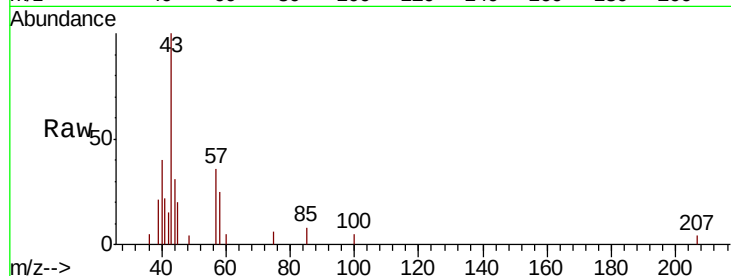




#51
4-Methyl-2-Pentanone
Concen: 0.737 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055164.D
Acq: 20 Apr 2019 2:19

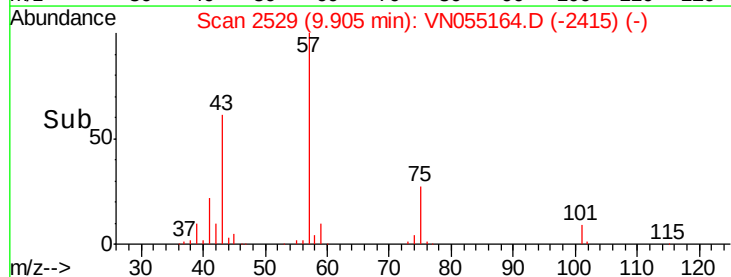
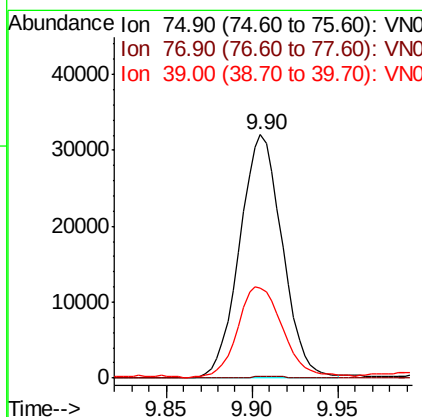
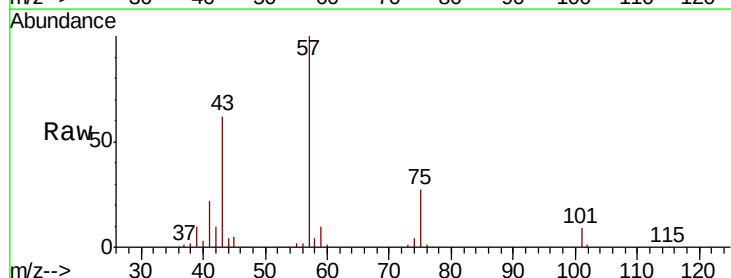
Instrument :
MSVOA_N
ClientSampleId :
SA-06-041819-B

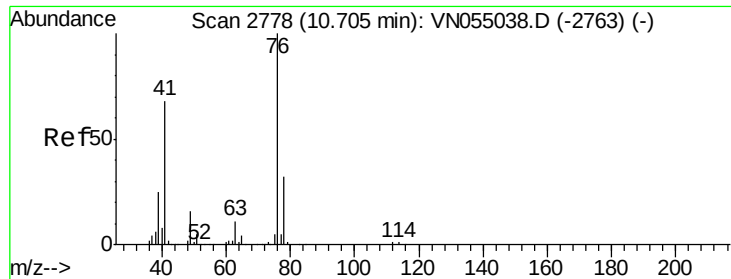
Tot Ion: 43 Resp: 5131
Ion Ratio Lower Upper
43 100
58 32.1 29.0 43.4



#54
cis-1,3-Dichloropropene
Concen: 5.395 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.07 min
Lab File: VN055164.D
Acq: 20 Apr 2019 2:19

Tgt Ion: 75 Resp: 55411
Ion Ratio Lower Upper
75 100
77 0.6 25.8 38.6#
39 36.9 43.8 65.8#

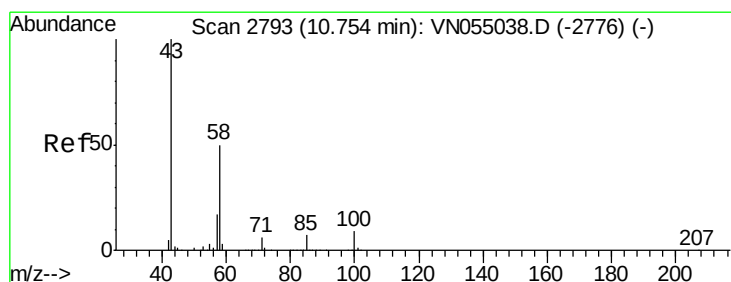
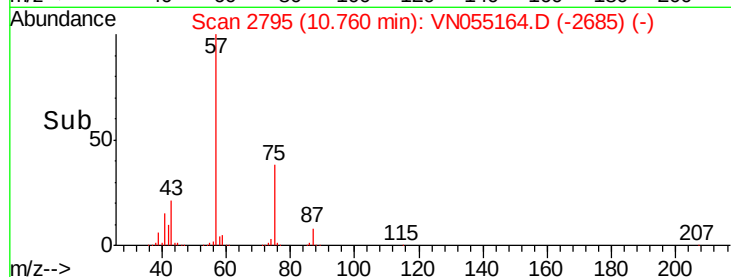
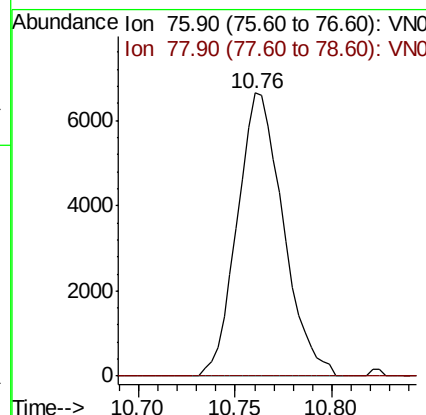
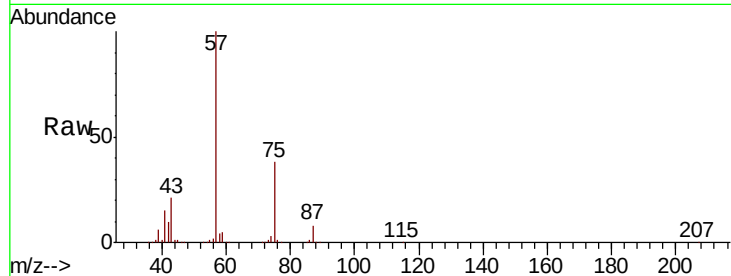




#57
 1,3-Dichloropropane
 Concen: 1.009 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN055164.D
 Acq: 20 Apr 2019 2:19

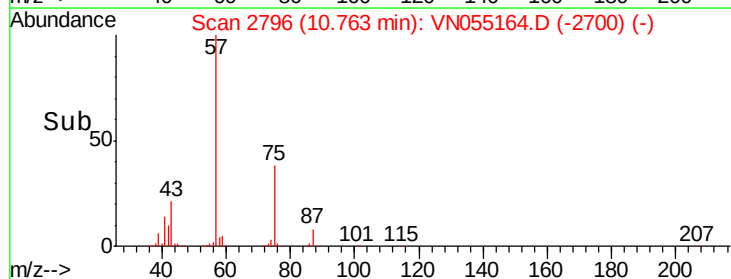
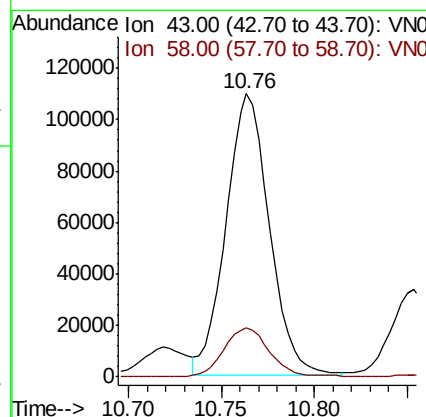
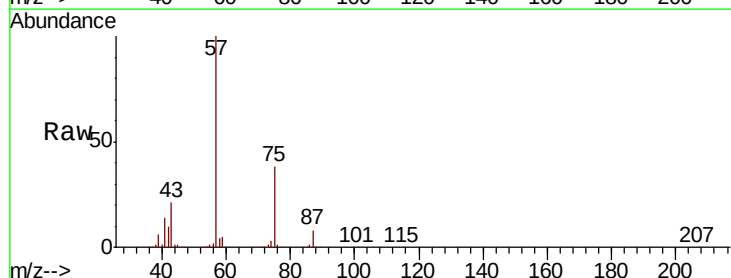
Instrument :
 MSVOA_N
 ClientSampled :
 SA-06-041819-B

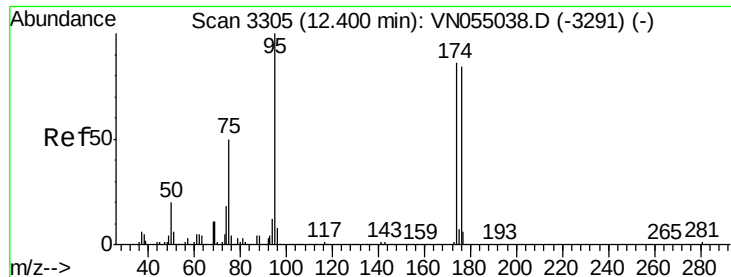
Tot Ion: 76 Resp: 10968
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 40.658 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055164.D
 Acq: 20 Apr 2019 2:19

Tgt Ion: 43 Resp: 177674
 Ion Ratio Lower Upper
 43 100
 58 18.5 25.1 75.2#

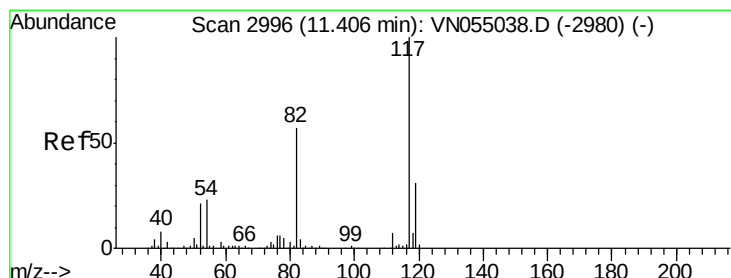
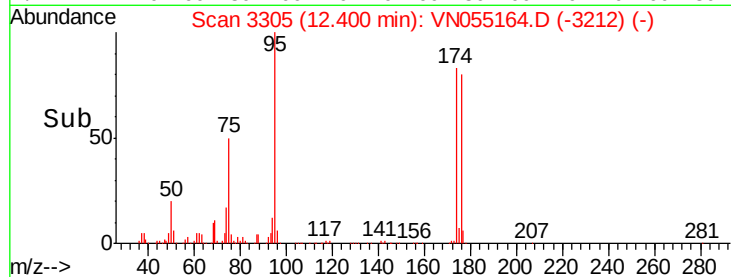
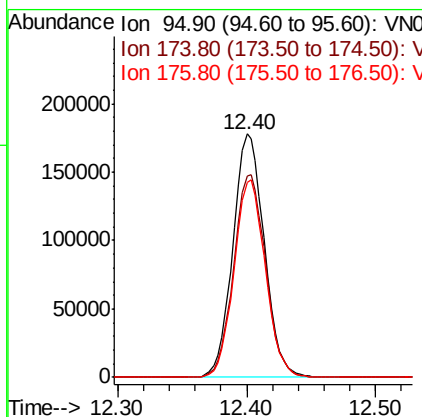
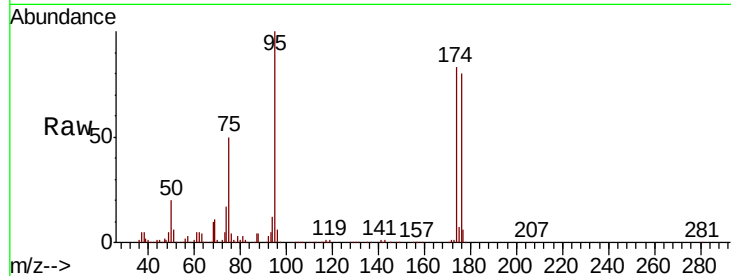




#62
4-Bromofluorobenzene
Concen: 37.902 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055164.D
Acq: 20 Apr 2019 2:19

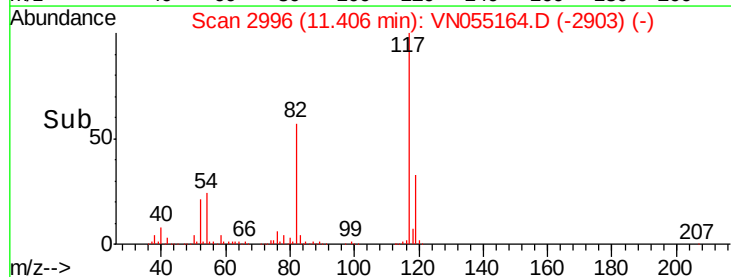
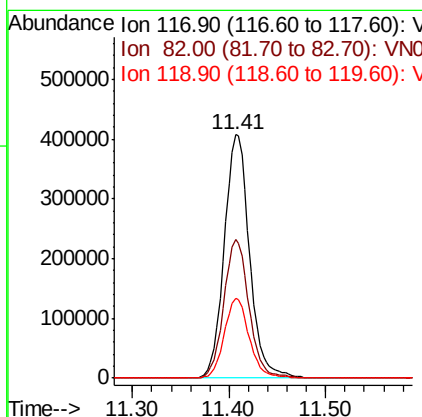
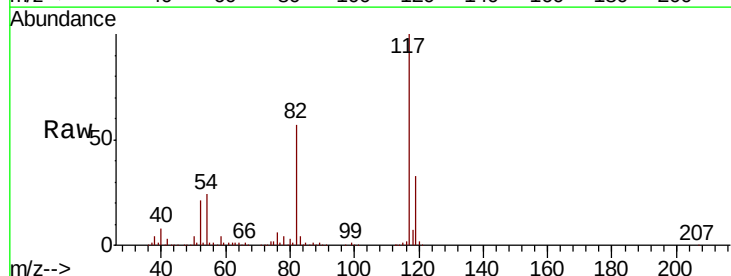
Instrument :
MSVOA_N
ClientSampleId :
SA-06-041819-B

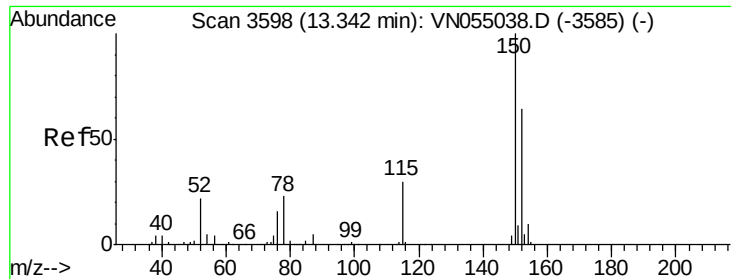
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	174.4
176	81.3	0.0	166.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055164.D
Acq: 20 Apr 2019 2:19

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.6	66.8
119	32.6	25.5	38.3

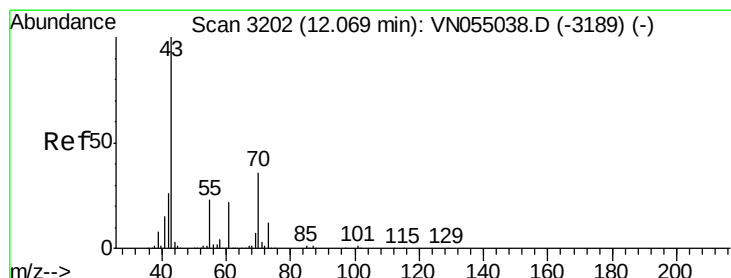
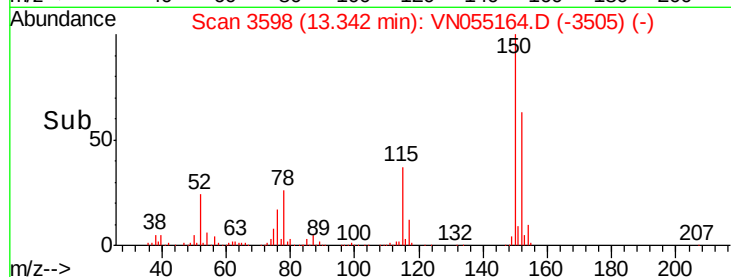
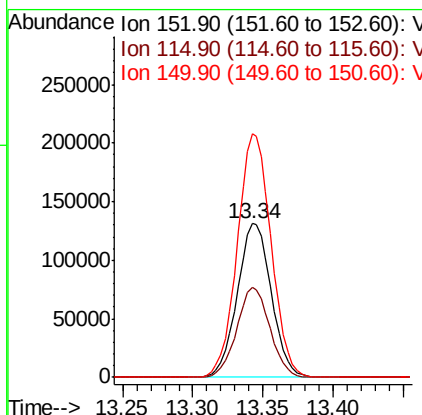
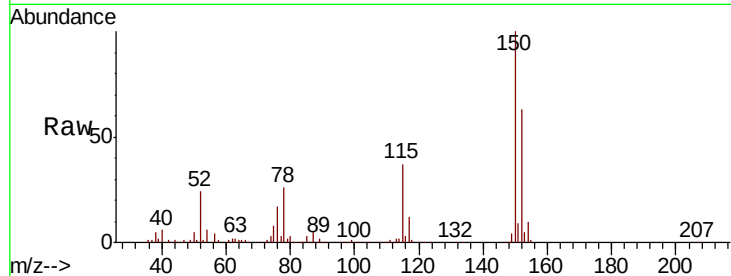




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VN055164.D
 Acq: 20 Apr 2019 2:19

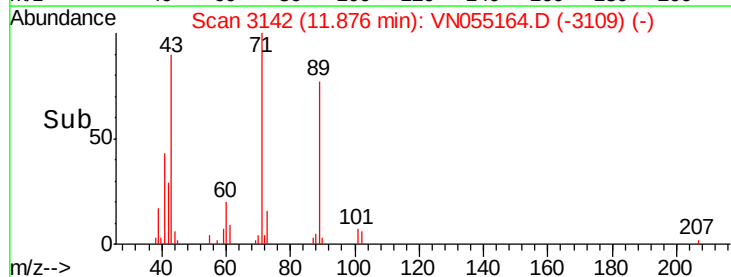
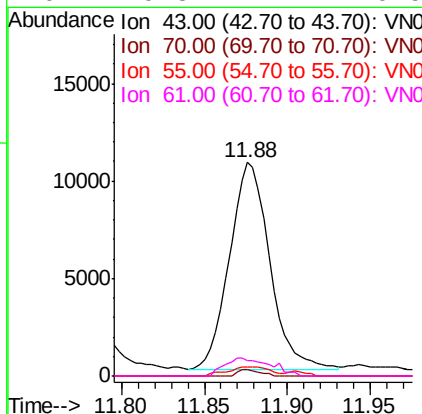
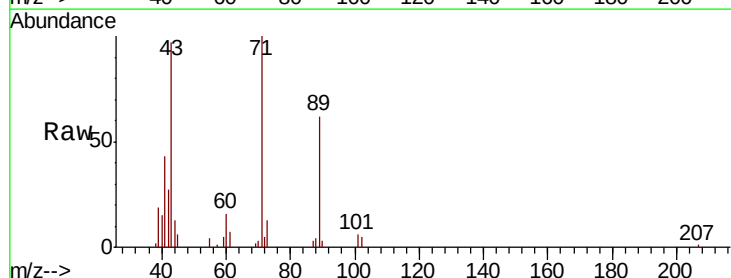
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-06-041819-B

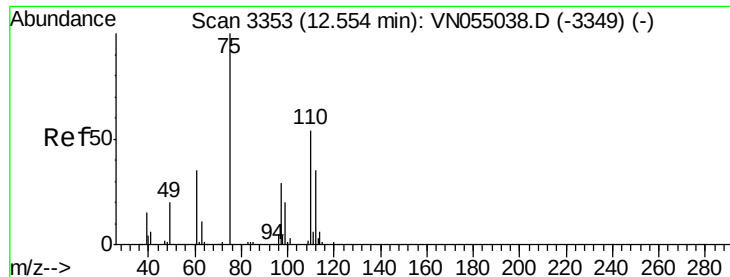
Tot Ion:152 Resp: 222096
 Ion Ratio Lower Upper
 152 100
 115 57.0 28.5 85.6
 150 157.0 0.0 347.2



#74
 N-ethyl acetate
 Concen: 3.230 ug/l
 RT: 11.88 min Scan# 3142
 Delta R.T. -0.19 min
 Lab File: VN055164.D
 Acq: 20 Apr 2019 2:19

Tgt Ion: 43 Resp: 17919
 Ion Ratio Lower Upper
 43 100
 70 1.8 29.4 44.0#
 55 4.7 19.0 28.4#
 61 9.8 17.7 26.5#





#76

1,2,3-Trichloropropane

Concen: 37.507 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

Instrument :

MSVOA_N

ClientSampleId :

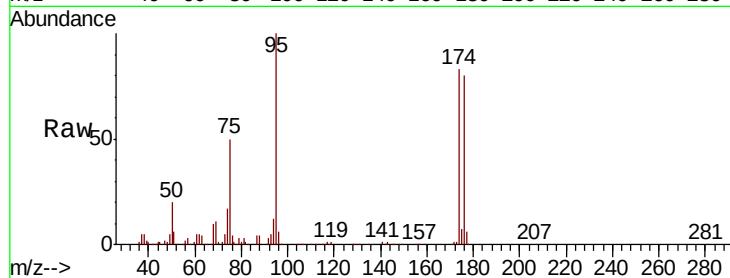
SA-06-041819-B

Tot Ion: 75 Resp: 149795

Ion Ratio Lower Upper

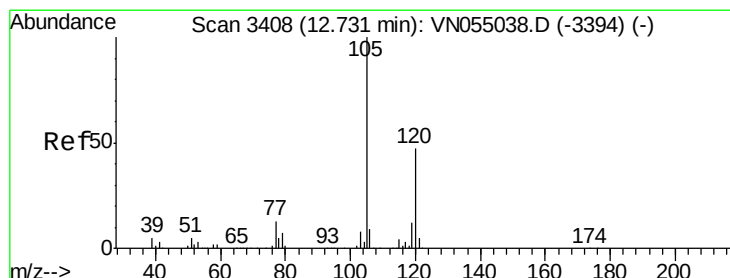
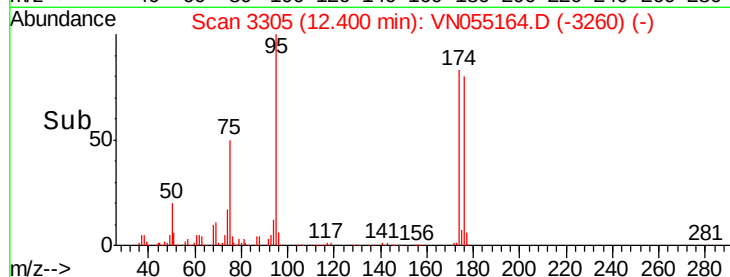
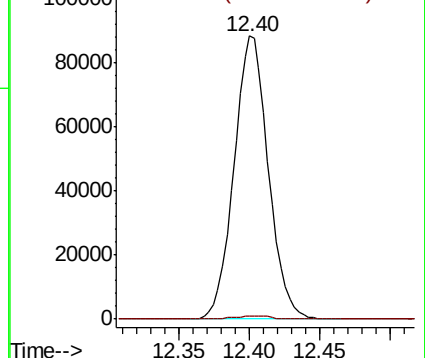
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.262 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055164.D

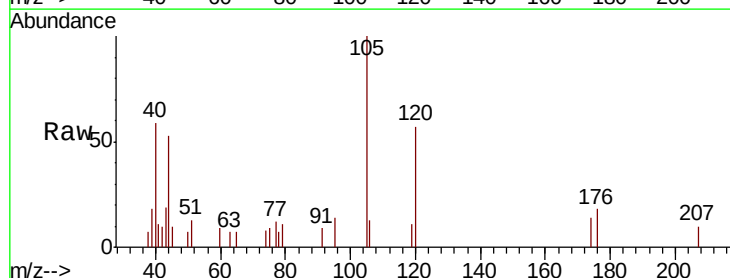
Acq: 20 Apr 2019 2:19

Tgt Ion:105 Resp: 4161

Ion Ratio Lower Upper

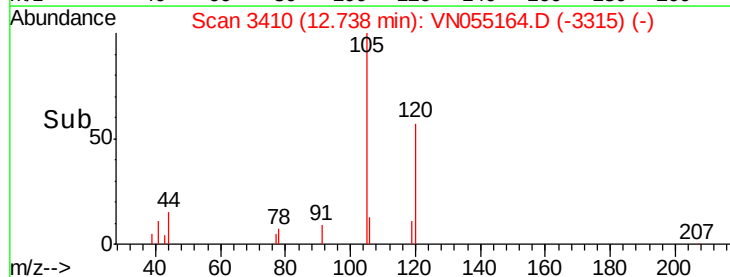
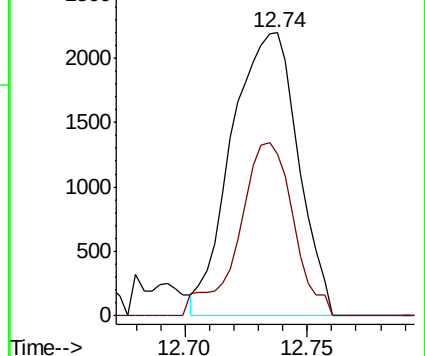
105 100

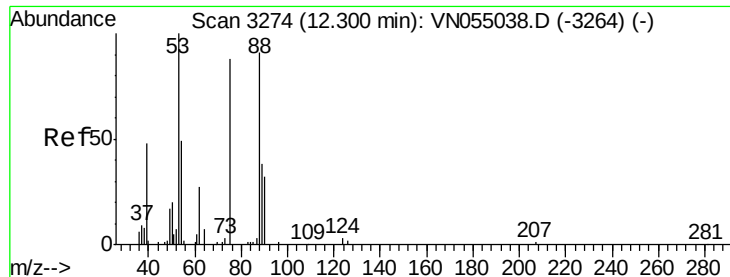
120 50.0 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 149.984 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

Instrument :

MSVOA_N

ClientSampleId :

SA-06-041819-B

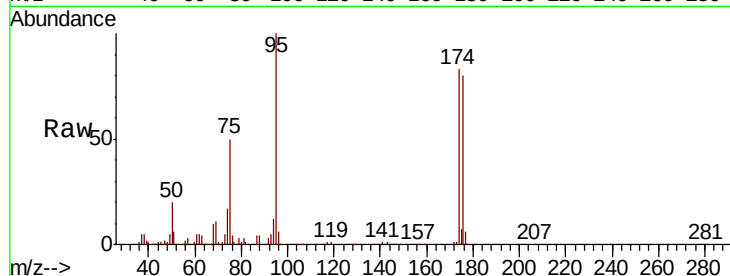
Tot Ion: 75 Resp: 149795

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

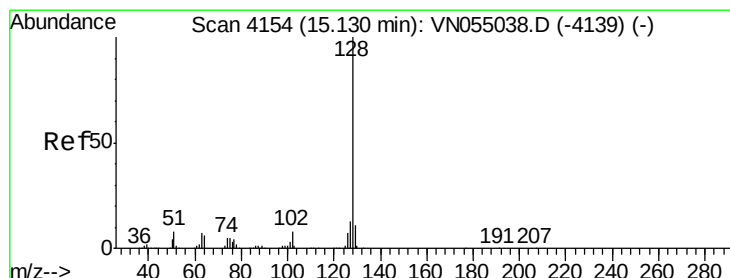
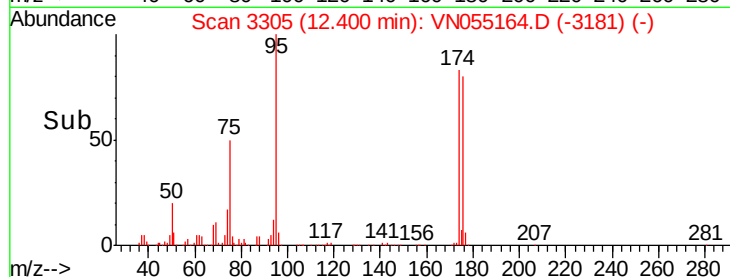
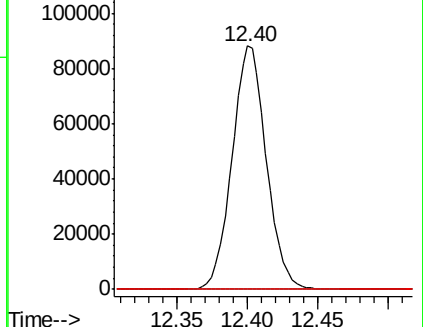
89 0.0 38.6 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055038.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055038.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055038.D (-3264) (-)



#95

Naphthalene

Concen: 3.282 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055164.D

Acq: 20 Apr 2019 2:19

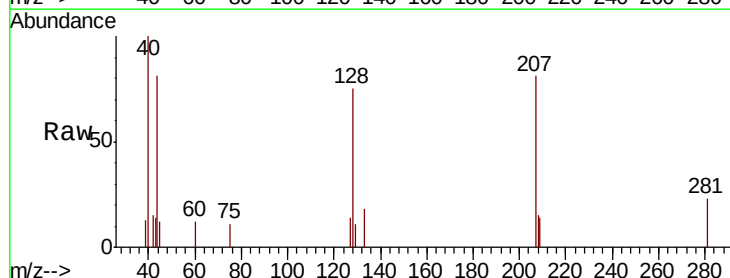
Tgt Ion: 128 Resp: 1718

Ion Ratio Lower Upper

128 100

127 10.1 10.1 15.1#

129 9.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): VN055038.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN055038.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN055038.D (-4139) (-)

