

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052838.D
 Acq On : 12 Dec 2018 20:13
 Operator : MD\SY
 Sample : PB115564ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#02

Quant Time: Dec 13 04:13:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1155365	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1799629	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1612292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	667208	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	608734	49.55	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.10%		
35) Dibromofluoromethane	7.59	113	512686	51.04	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.08%		
50) Toluene-d8	10.09	98	2209695	50.73	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.46%		
62) 4-Bromofluorobenzene	12.40	95	724596	49.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.20%		

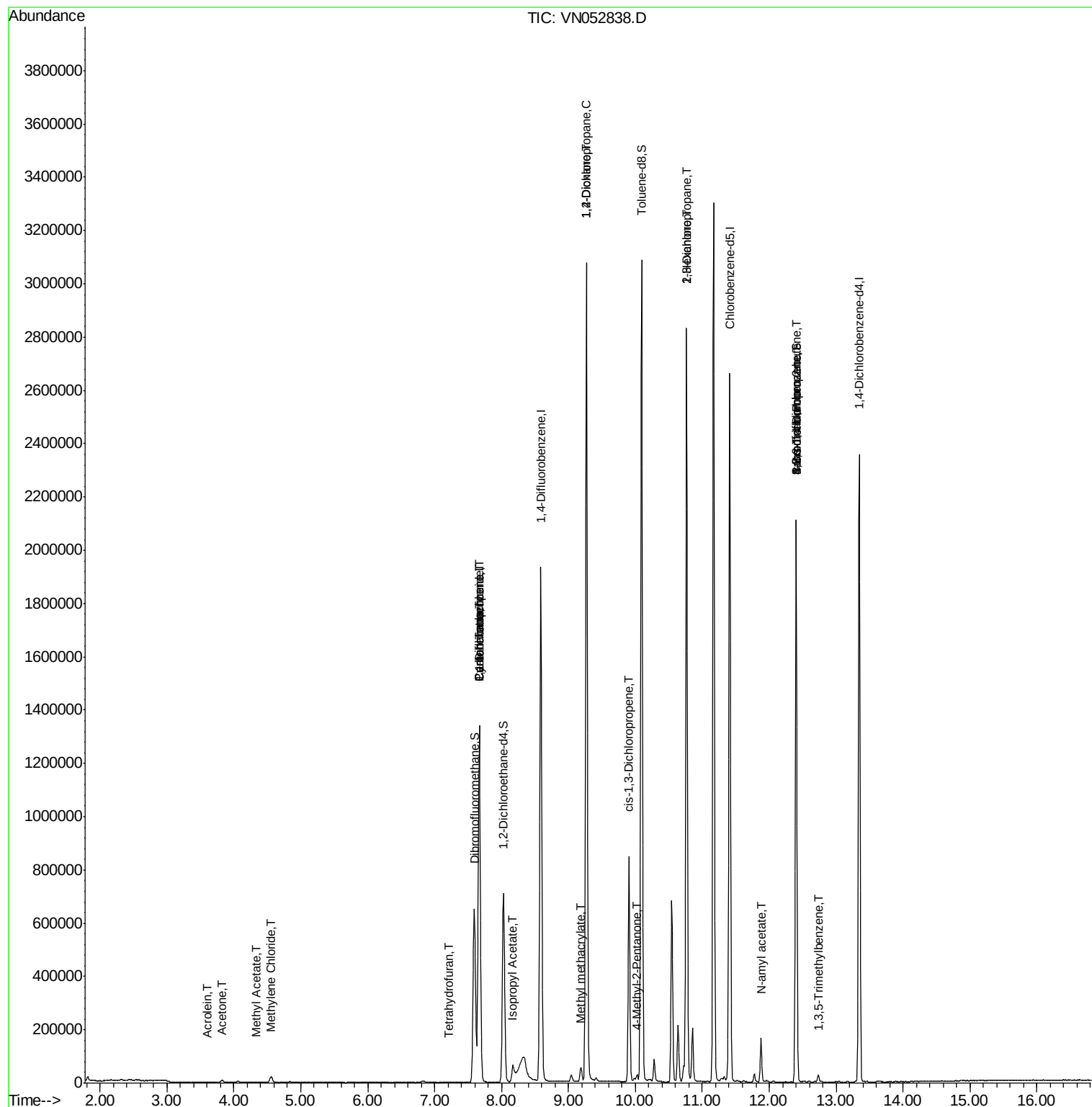
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	394	0.610	ug/l #	73
16) Acetone	3.82	43	16480	5.973	ug/l	94
18) Methyl Acetate	4.33	43	3544	0.350	ug/l #	90
20) Methylene Chloride	4.55	84	15883	1.279	ug/l	96
29) Tetrahydrofuran	7.21	42	807	0.276	ug/l #	70
31) Cyclohexane	7.66	56	19669	0.369	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	78005	4.707	ug/l #	49
38) Carbon Tetrachloride	7.67	117	102357	6.710	ug/l #	16
43) Isopropyl Acetate	8.17	43	78248	3.833	ug/l #	78
45) 1,2-Dichloropropane	9.27	63	4007	0.308	ug/l #	44
48) Methyl methacrylate	9.17	41	19100	2.134	ug/l #	12
49) 1,4-Dioxane	9.26	88	352	3.464	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	22255	2.378	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	155262	8.264	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	30328	1.645	ug/l #	43
59) 2-Hexanone	10.76	43	410419	63.985	ug/l #	50
71) Bromoform	12.40	173	4301	0.544	ug/l #	1
74) N-amyl acetate	11.88	43	51307	3.751	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	344039	34.949	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13483	0.335	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	344039	112.275	ug/l #	12

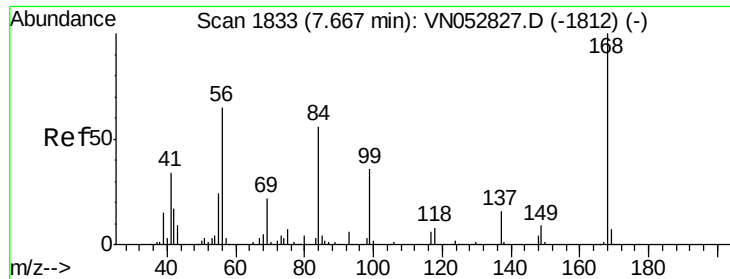
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

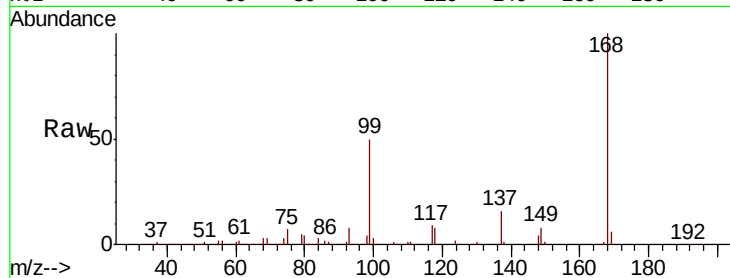
PB115564ZHE#02

Tot Ion:168 Resp: 1155365

Ion Ratio Lower Upper

168 100

99 50.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.67

500000

400000

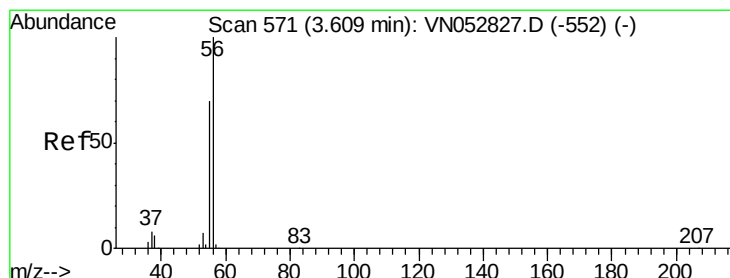
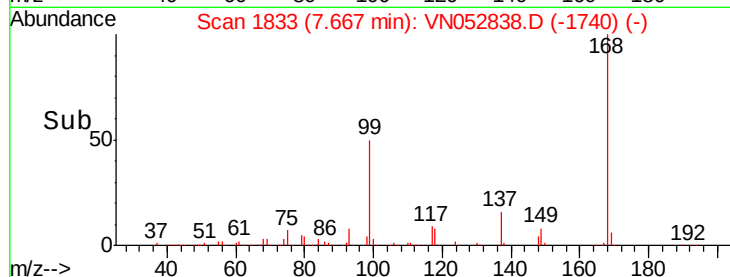
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.610 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052838.D

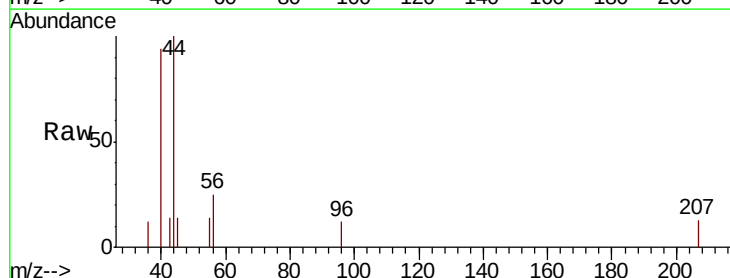
Acq: 12 Dec 2018 20:13

Tgt Ion: 56 Resp: 394

Ion Ratio Lower Upper

56 100

55 48.2 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052827.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052827.D (-552) (-)

3.61

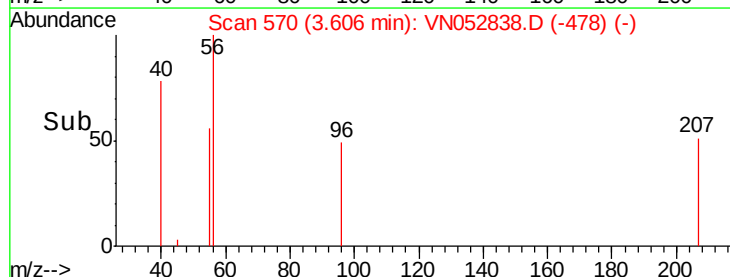
300

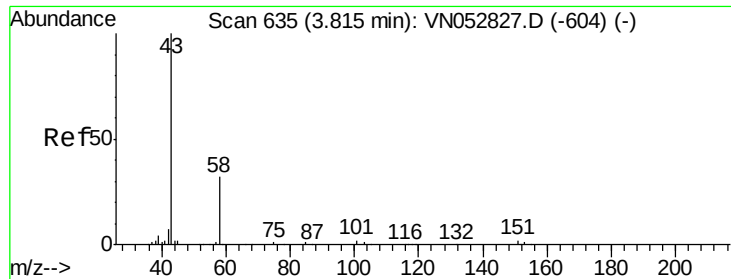
200

100

0

Time--> 3.58 3.60 3.62 3.64





#16

Acetone

Concen: 5.973 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

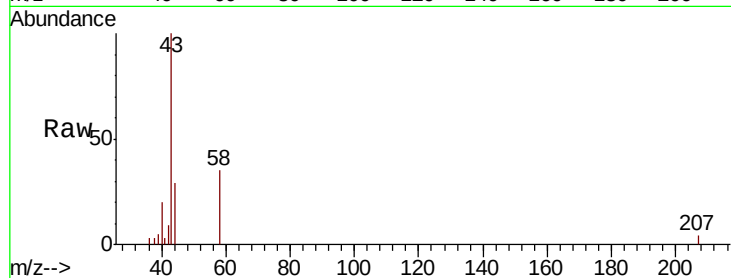
PB115564ZHE#02

Tot Ion: 43 Resp: 16480

Ion Ratio Lower Upper

43 100

58 34.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

6000

5000

4000

3000

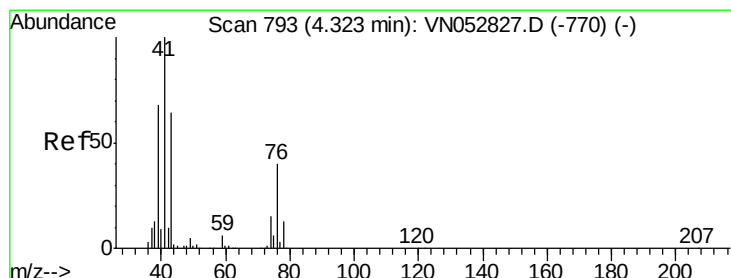
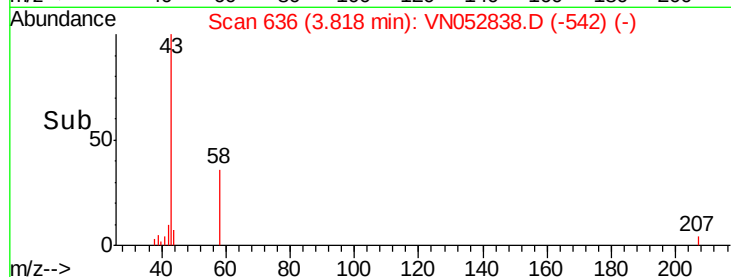
2000

1000

0

Time-->

3.70 3.80 3.90



#18

Methyl Acetate

Concen: 0.350 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN052838.D

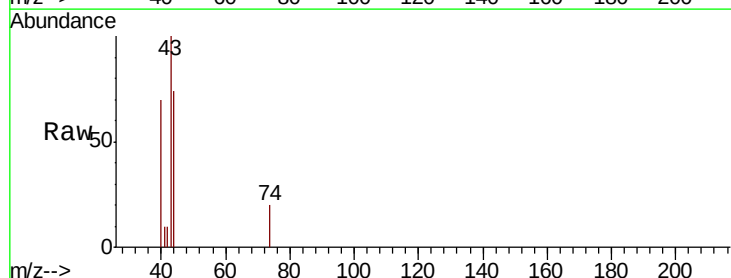
Acq: 12 Dec 2018 20:13

Tgt Ion: 43 Resp: 3544

Ion Ratio Lower Upper

43 100

74 19.1 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

1500

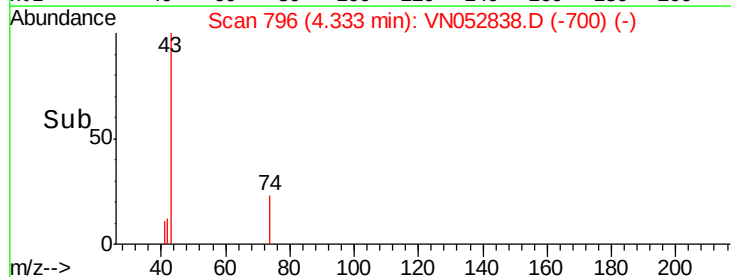
1000

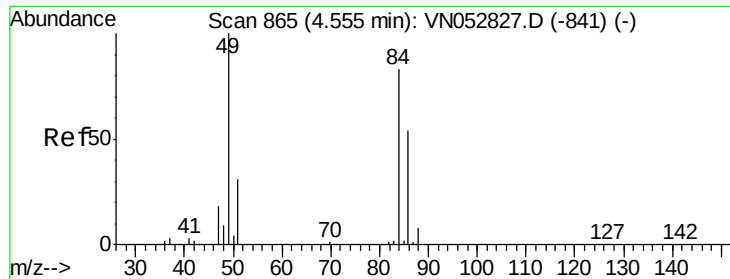
500

0

Time-->

4.25 4.30 4.35 4.40

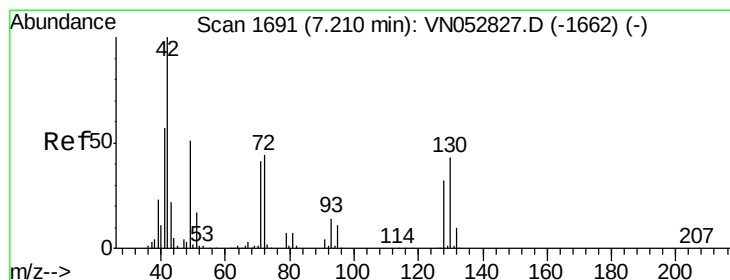
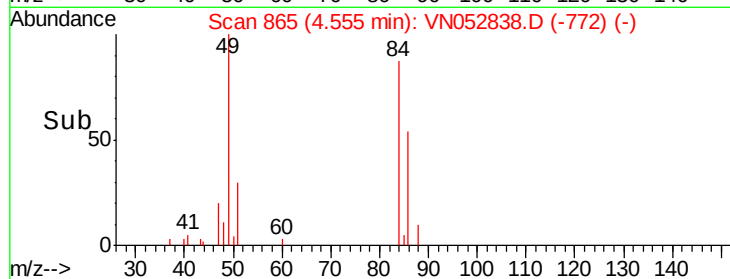
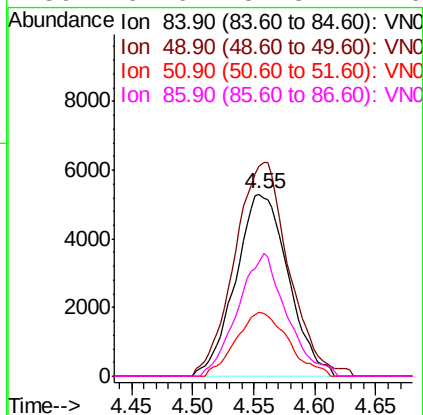
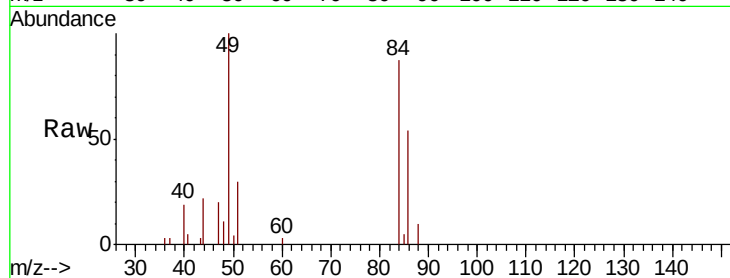




#20
Methvlene Chloride
Concen: 1.279 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

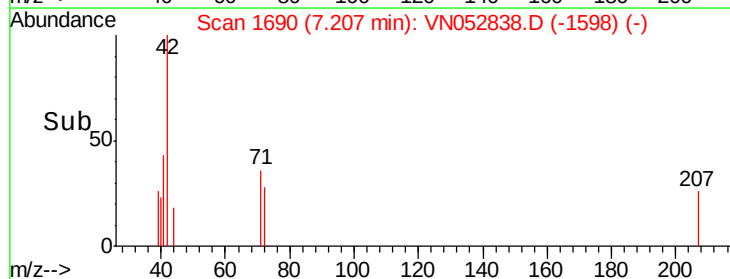
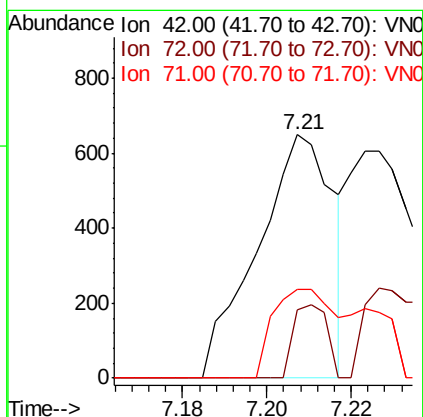
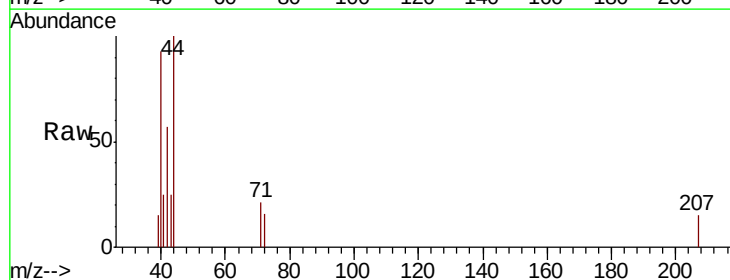
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#02

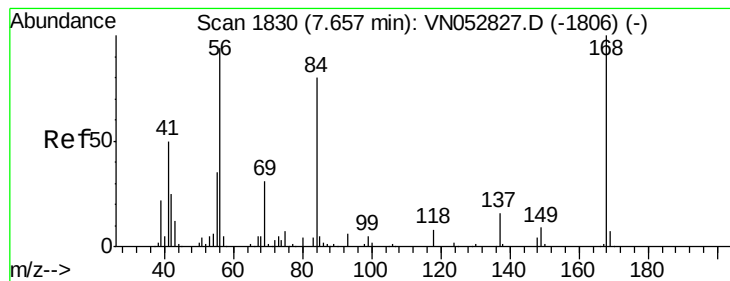
Tot Ion:	84	Resp:	15883
Ion	Ratio	Lower	Upper
84	100		
49	115.3	96.8	145.2
51	35.0	29.9	44.9
86	62.6	51.8	77.6



#29
Tetrahydrofuran
Concen: 0.276 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

Tgt Ion:	42	Resp:	807
Ion	Ratio	Lower	Upper
42	100		
72	13.4	34.7	52.1#
71	33.1	32.3	48.5





#31

Cyclohexane

Concen: 0.369 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#02

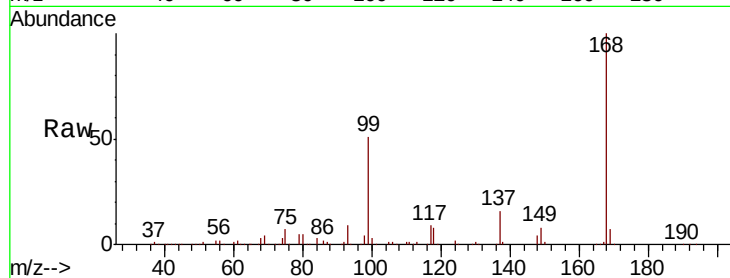
Tot Ion: 56 Resp: 19669

Ion Ratio Lower Upper

56 100

69 191.3 26.6 39.8#

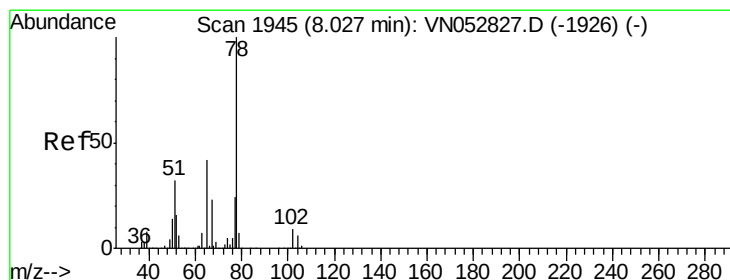
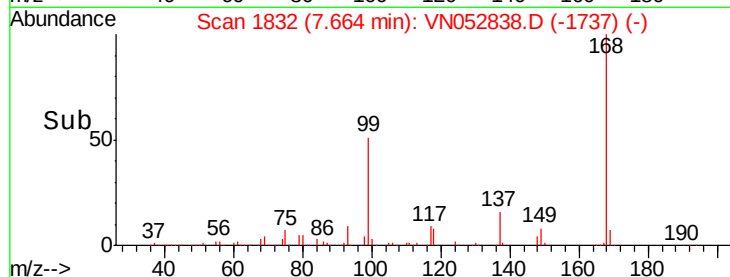
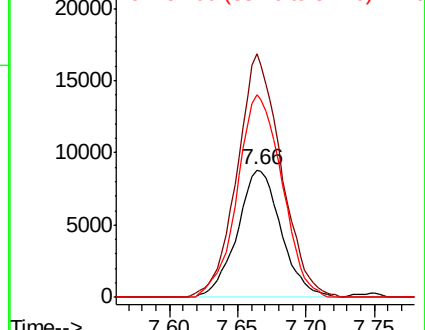
84 158.9 68.4 102.6#



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052838.D

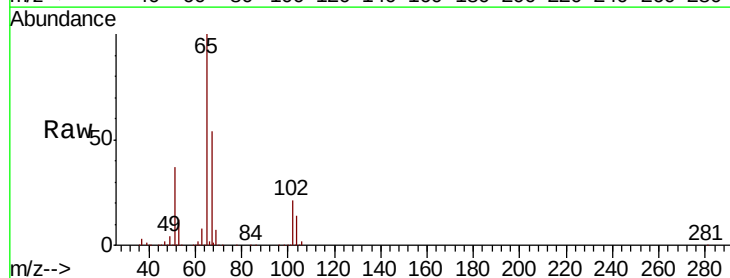
Acq: 12 Dec 2018 20:13

Tgt Ion: 65 Resp: 608734

Ion Ratio Lower Upper

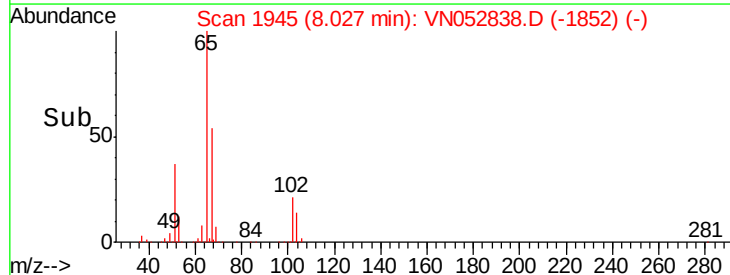
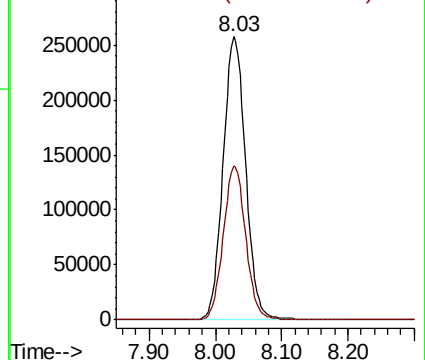
65 100

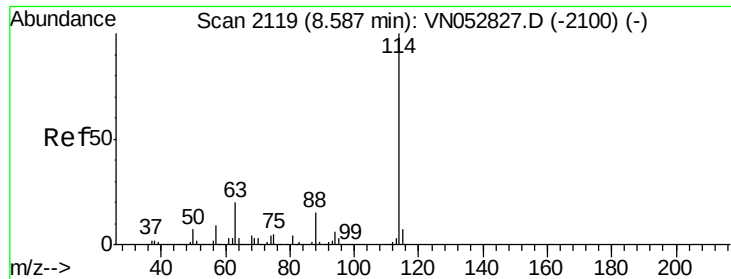
67 54.2 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

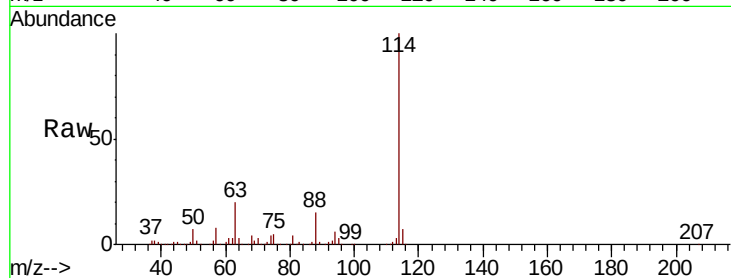




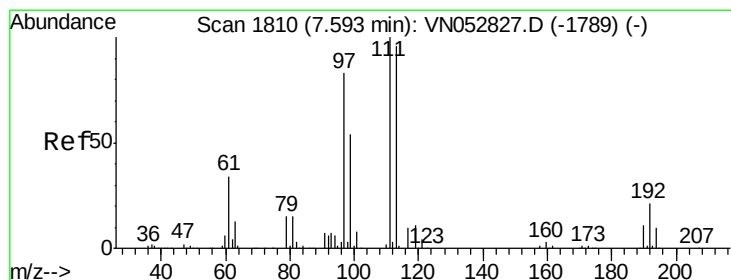
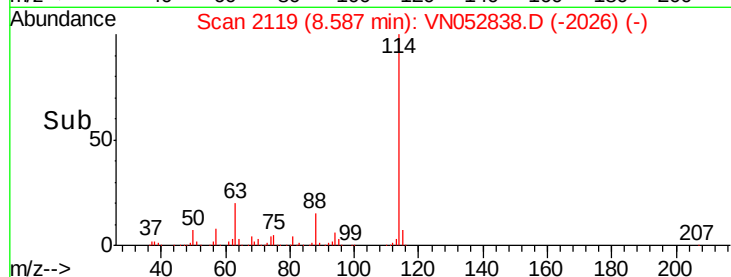
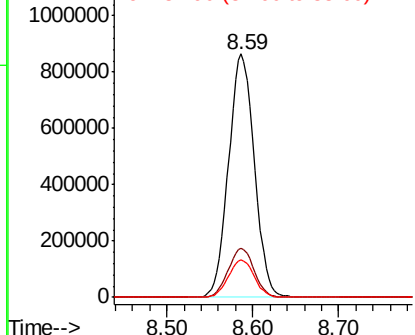
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052838.D
 Acq: 12 Dec 2018 20:13

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#02

Tot Ion:114 Resp: 1799629
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 39.8
 88 15.3 0.0 31.0

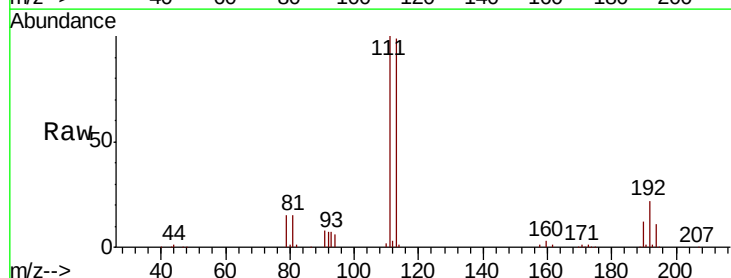


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

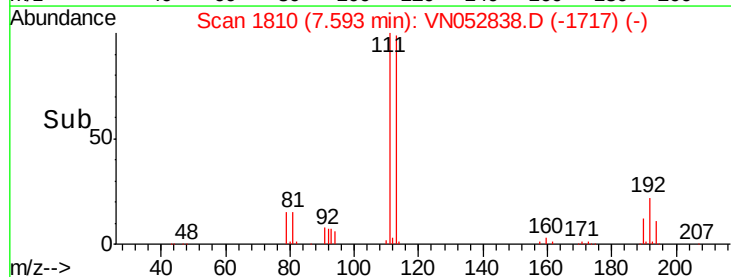
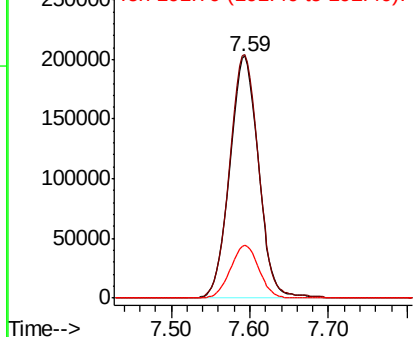


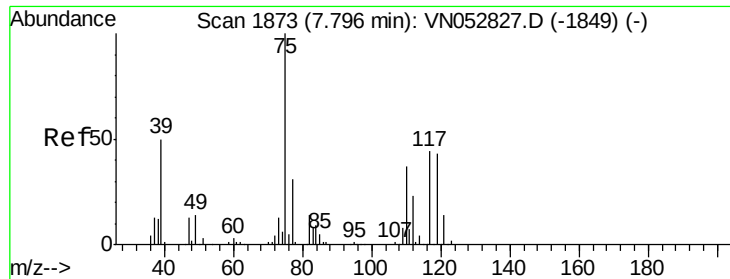
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052838.D
 Acq: 12 Dec 2018 20:13

Tgt Ion:113 Resp: 512686
 Ion Ratio Lower Upper
 113 100
 111 101.9 83.0 124.4
 192 21.8 17.5 26.3



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: 4.707 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#02

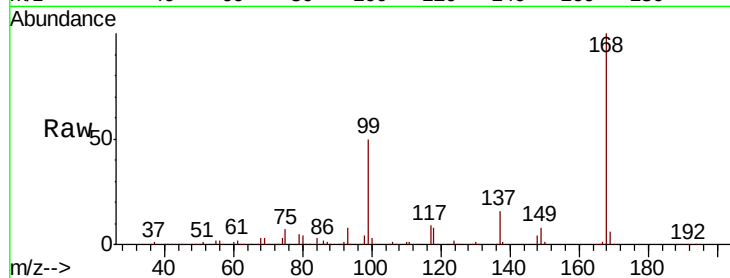
Tot Ion: 75 Resp: 78005

Ion Ratio Lower Upper

75 100

110 8.8 18.2 54.6#

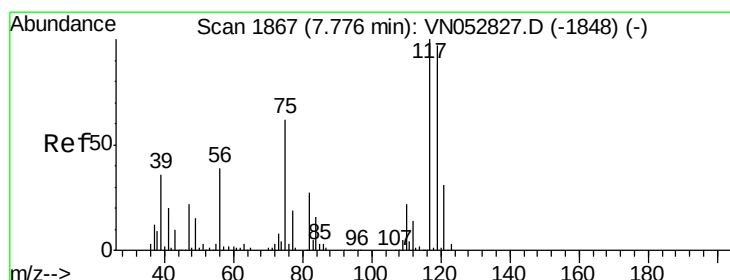
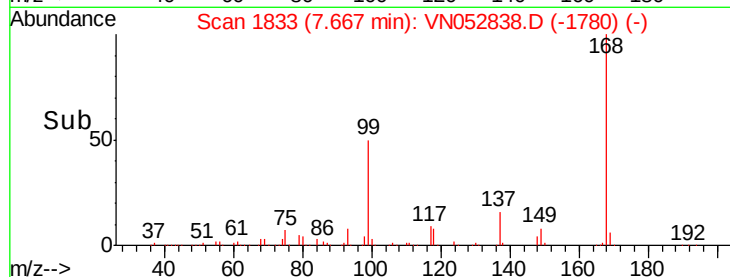
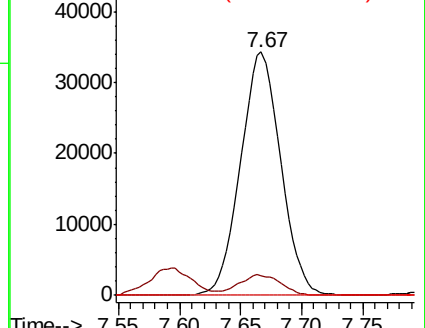
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN052838.D (-1780) (-)

Ion 109.90 (109.60 to 110.60): VN052838.D (-1780) (-)

Ion 76.90 (76.60 to 77.60): VN052838.D (-1780) (-)



#38

Carbon Tetrachloride

Concen: 6.710 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

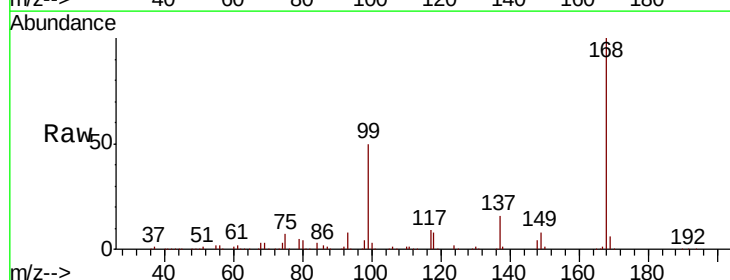
Tgt Ion: 117 Resp: 102357

Ion Ratio Lower Upper

117 100

119 4.9 77.1 115.7#

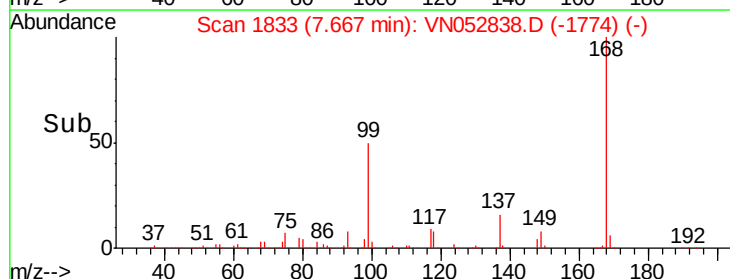
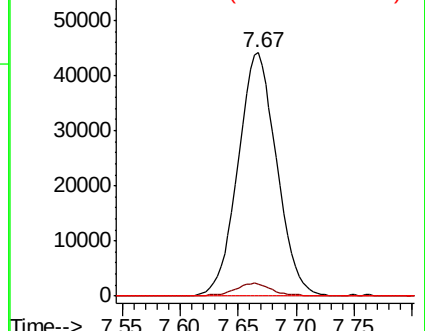
121 0.0 24.9 37.3#

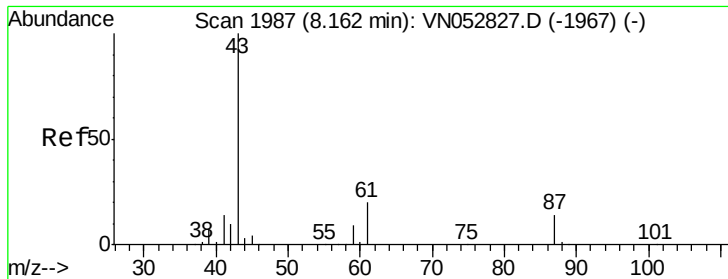


Abundance Ion 116.80 (116.50 to 117.50): VN052838.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052838.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052838.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 3.833 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#02

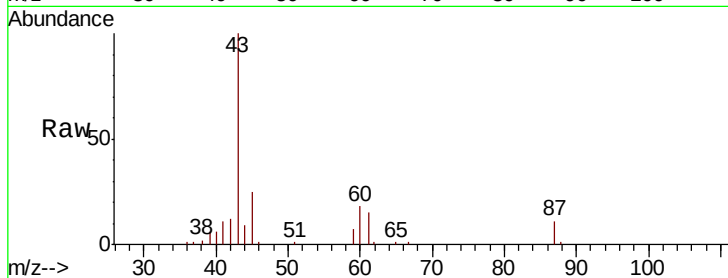
Tot Ion: 43 Resp: 78248

Ion Ratio Lower Upper

43 100

61 14.1 22.9 34.3#

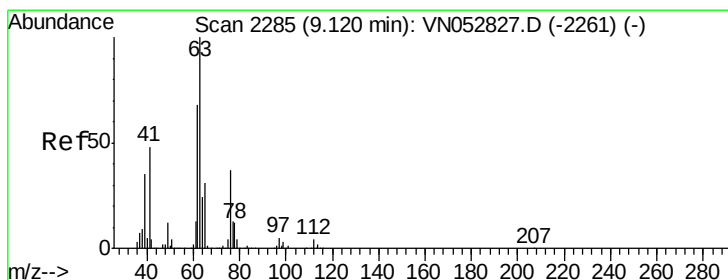
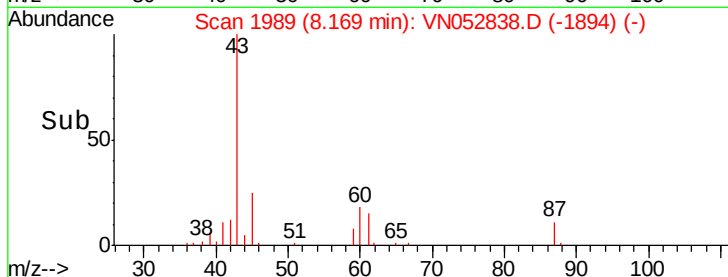
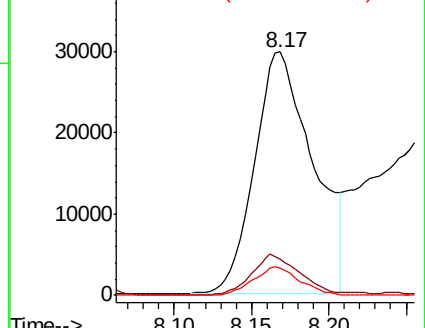
87 9.3 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.308 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052838.D

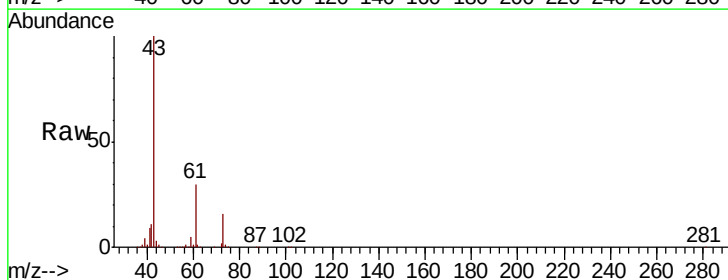
Acq: 12 Dec 2018 20:13

Tgt Ion: 63 Resp: 4007

Ion Ratio Lower Upper

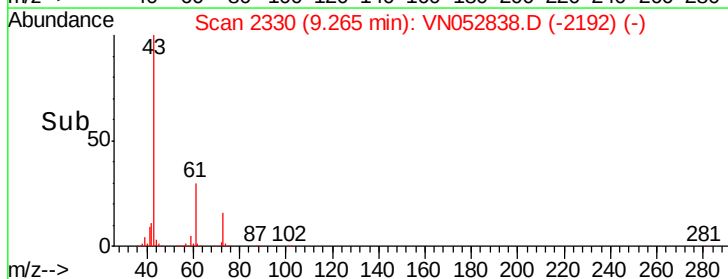
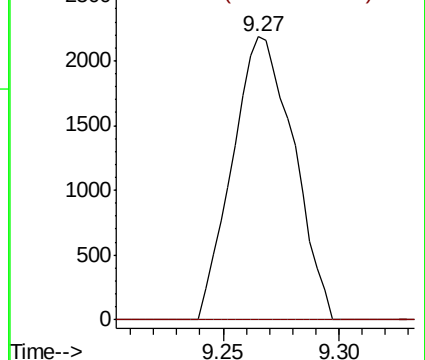
63 100

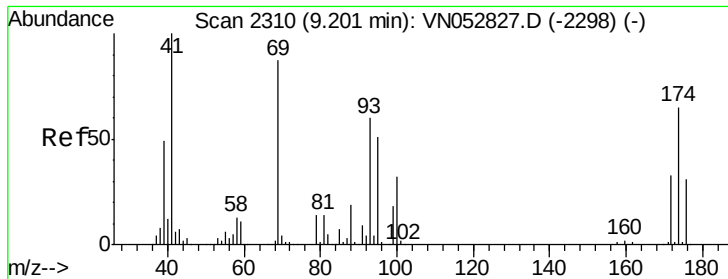
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

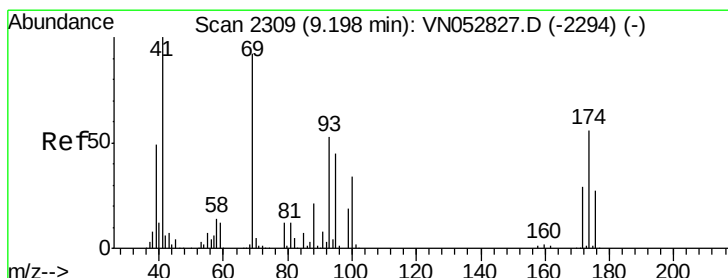
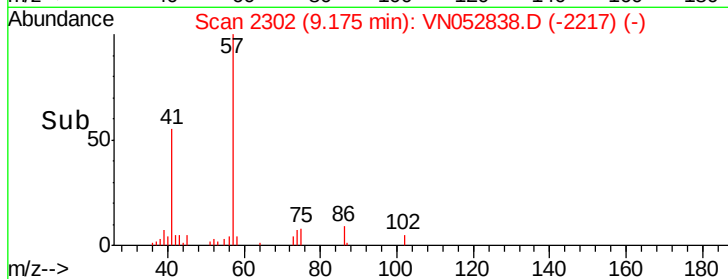
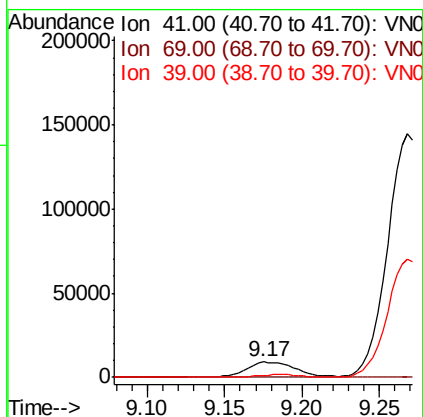
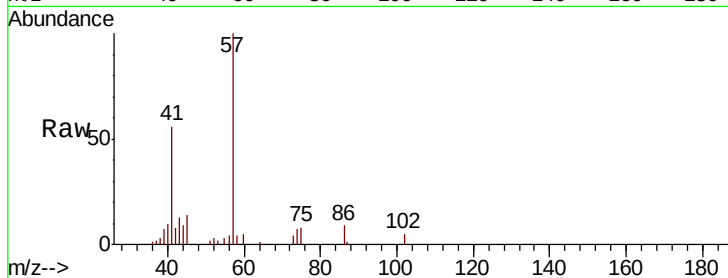




#48
Methvl methacrylate
Concen: 2.134 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

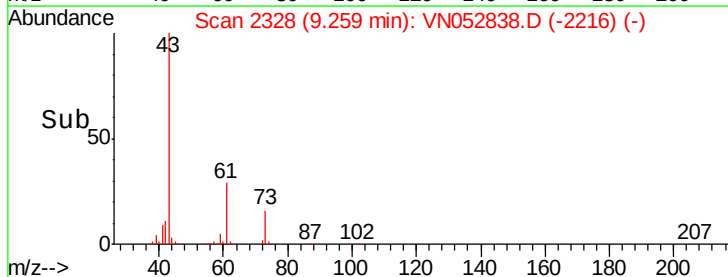
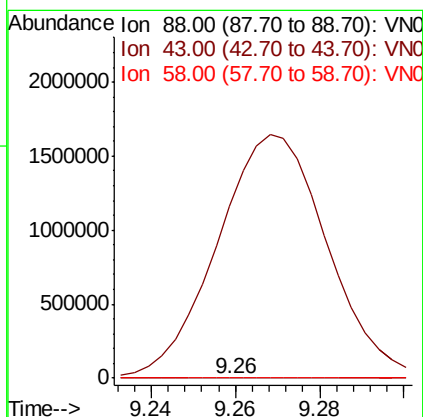
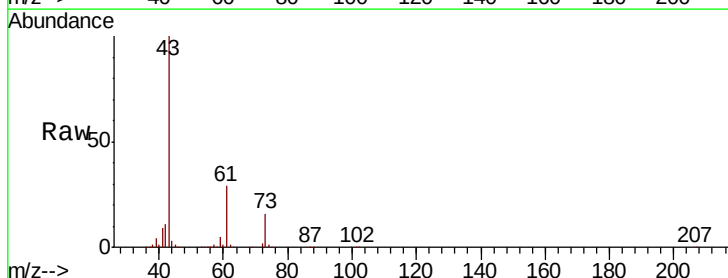
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#02

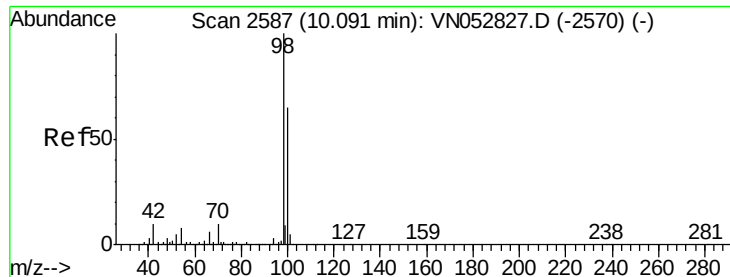
Tot Ion: 41 Resp: 19100
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#



#49
1,4-Dioxane
Concen: 3.464 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

Tgt Ion: 88 Resp: 352
Ion Ratio Lower Upper
88 100
43 857234.1 26.6 40.0#
58 3690.1 58.4 87.6#





#50

Toluene-d8

Concen: 3.464 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

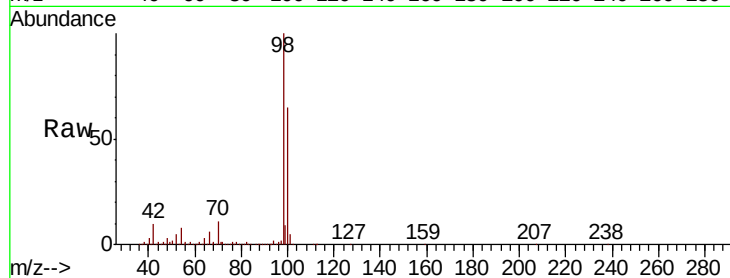
PB115564ZHE#02

Tot Ion: 98 Resp: 2209695

Ion Ratio Lower Upper

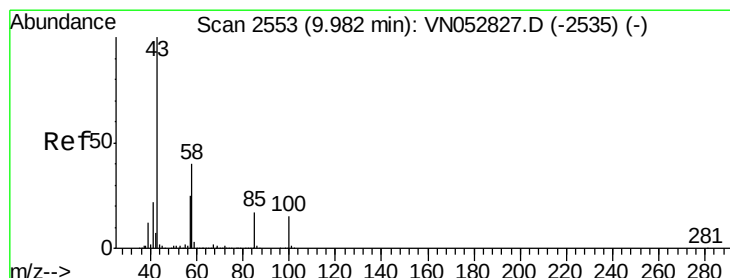
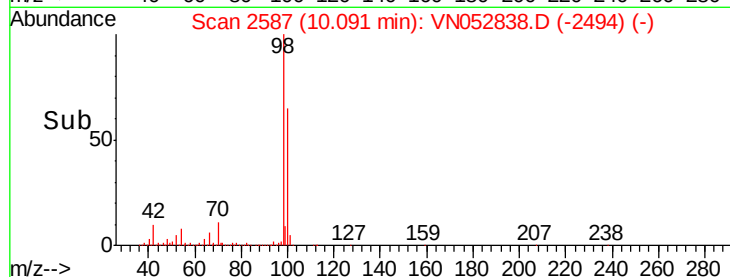
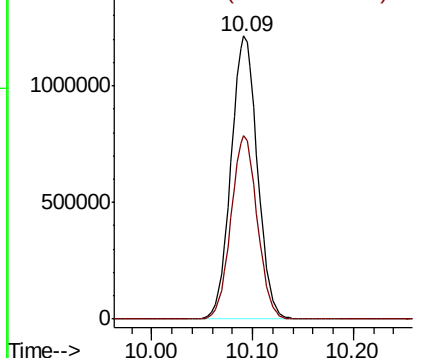
98 100

100 64.4 51.6 77.4



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: 2.378 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052838.D

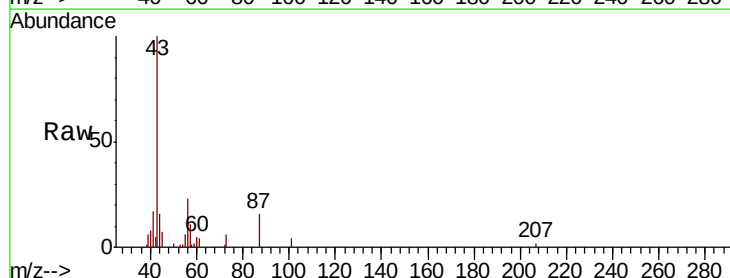
Acq: 12 Dec 2018 20:13

Tgt Ion: 43 Resp: 22255

Ion Ratio Lower Upper

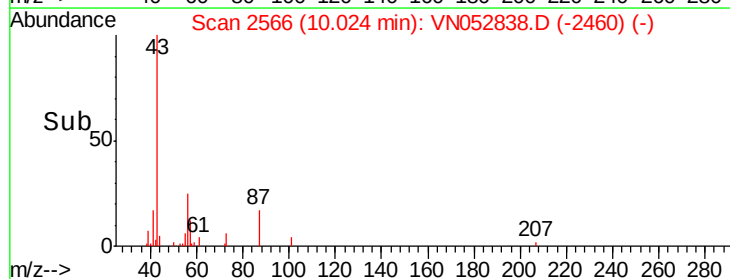
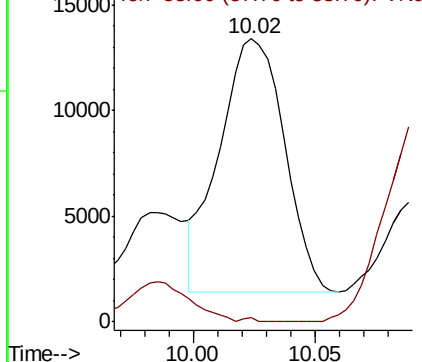
43 100

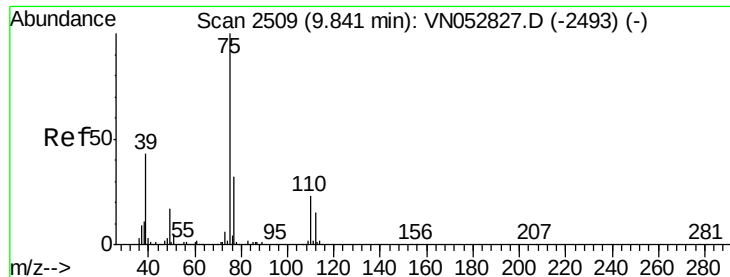
58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 8.264 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#02

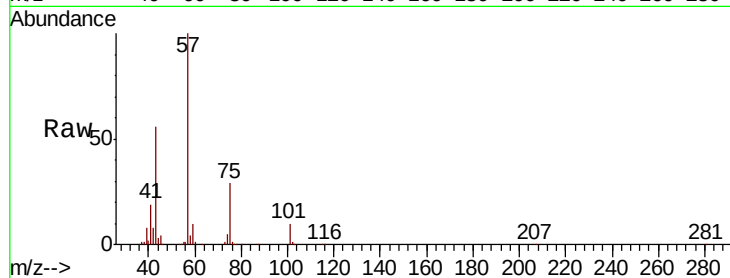
Tot Ion: 75 Resp: 155262

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 27.2 34.8 52.2#

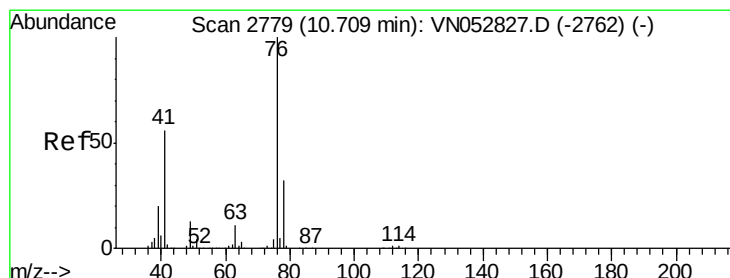
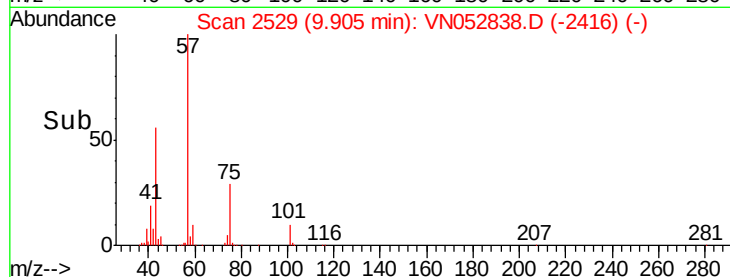
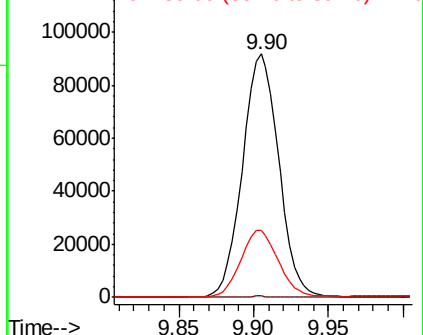


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.645 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052838.D

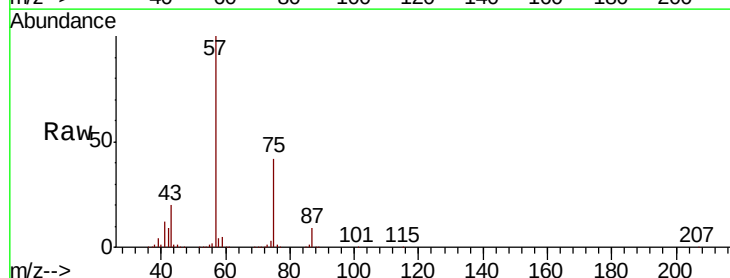
Acq: 12 Dec 2018 20:13

Tgt Ion: 76 Resp: 30328

Ion Ratio Lower Upper

76 100

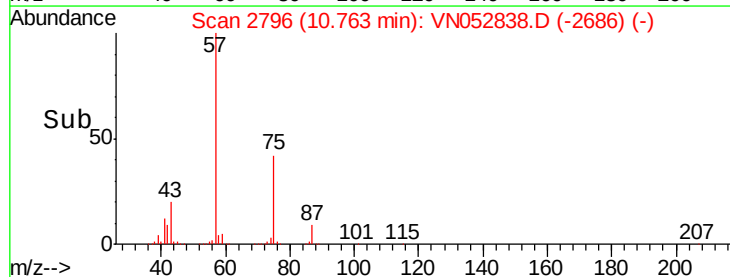
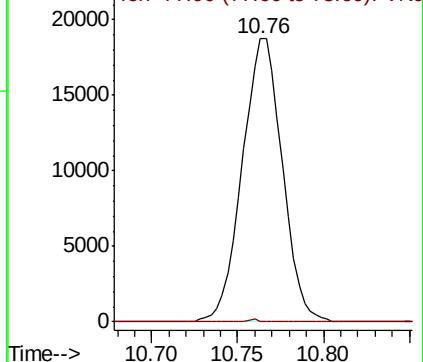
78 0.2 25.8 38.8#

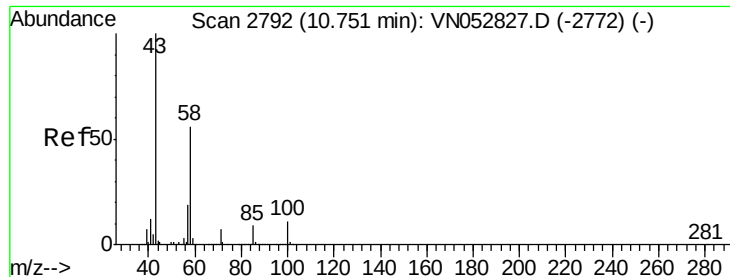


Abundance

Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

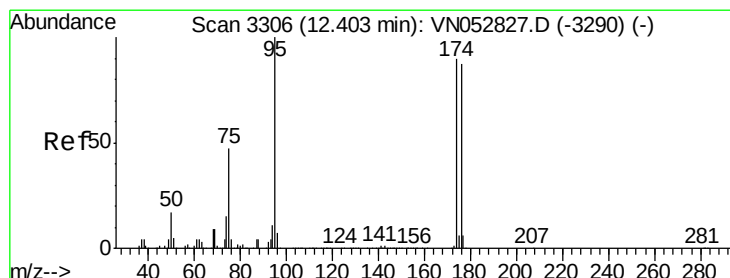
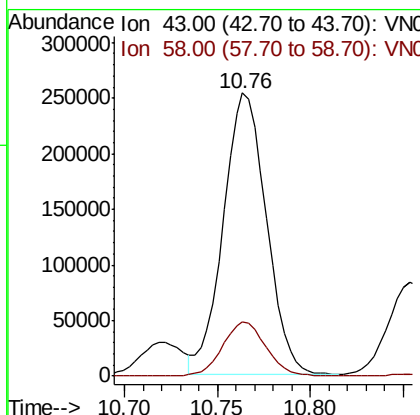
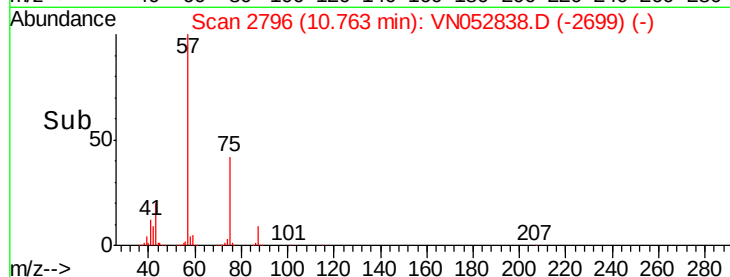
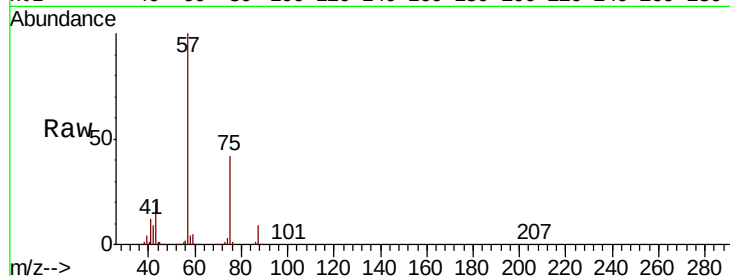




#59
2-Hexanone
Concen: 63.985 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

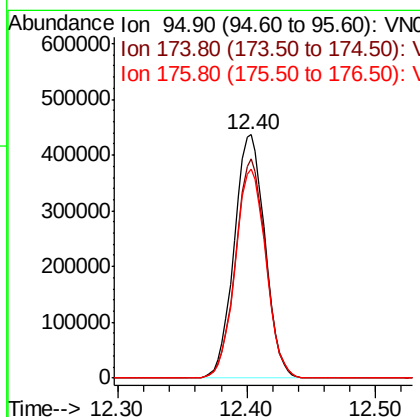
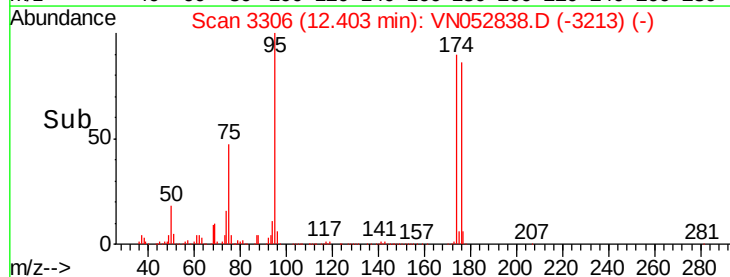
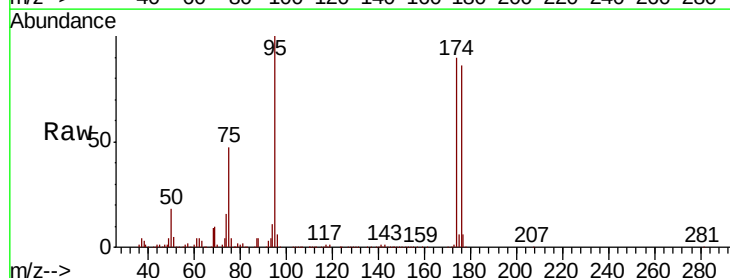
Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#02

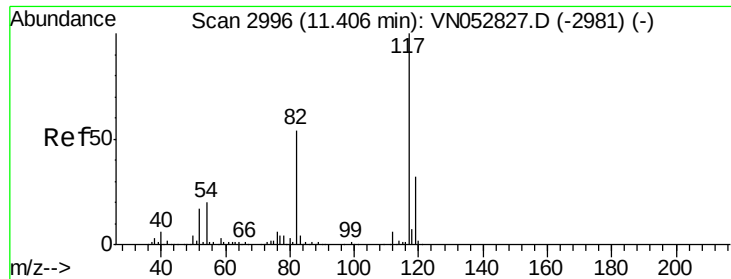
Tot Ion: 43 Resp: 410419
Ion Ratio Lower Upper
43 100
58 19.3 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

Tgt Ion: 95 Resp: 724596
Ion Ratio Lower Upper
95 100
174 88.5 0.0 178.8
176 85.7 0.0 173.8

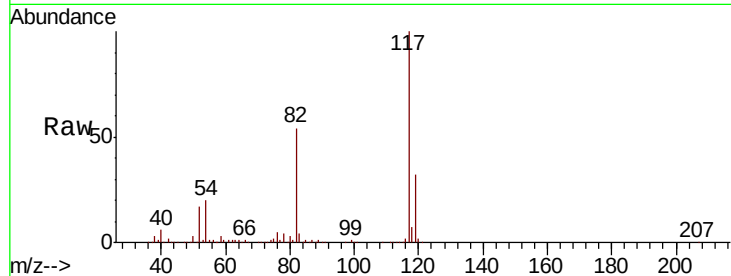




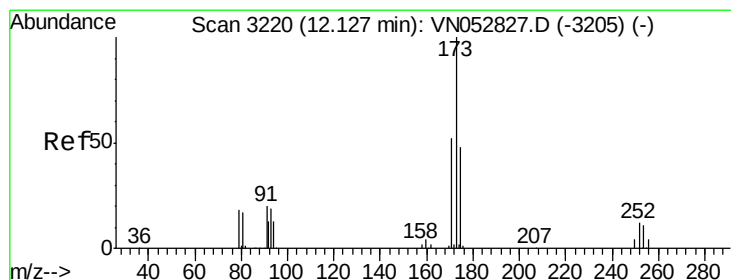
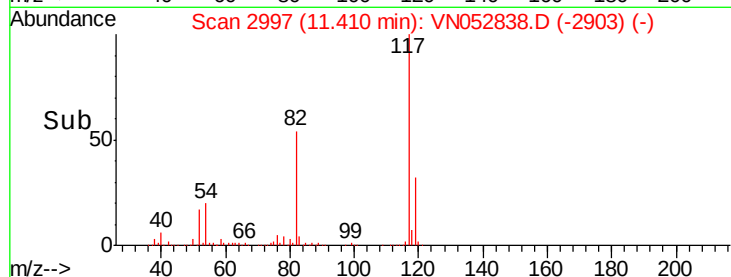
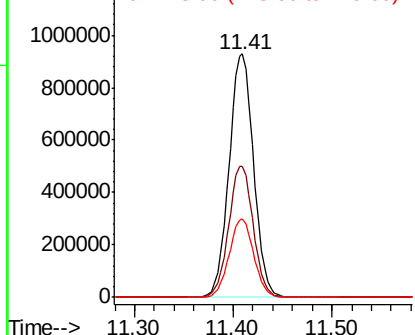
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

Instrument :
MSVOA_N
ClientSampleId :
PB115564ZHE#02

Tot Ion:117 Resp: 1612292
Ion Ratio Lower Upper
117 100
82 53.8 42.8 64.2
119 32.1 25.5 38.3

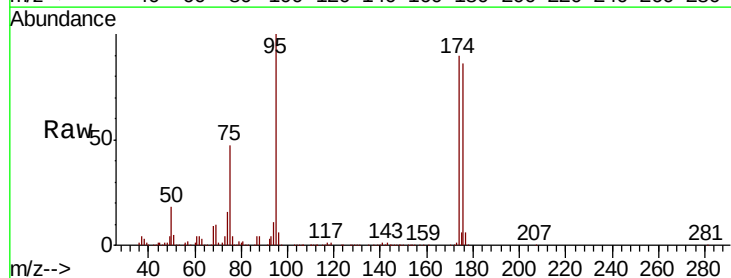


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

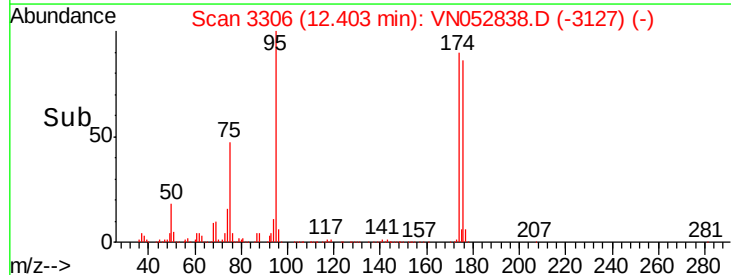
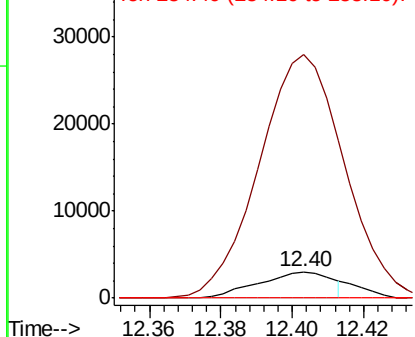


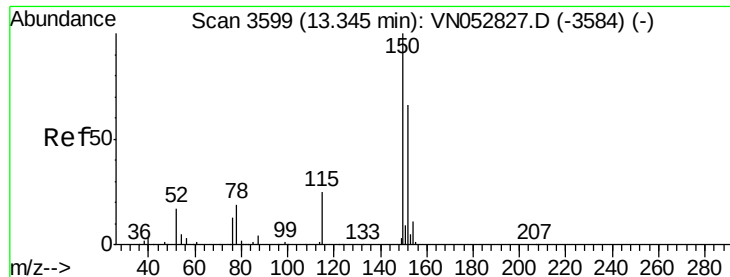
#71
Bromoform
Concen: 0.544 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052838.D
Acq: 12 Dec 2018 20:13

Tgt Ion:173 Resp: 4301
Ion Ratio Lower Upper
173 100
175 921.5 24.3 72.9#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#02

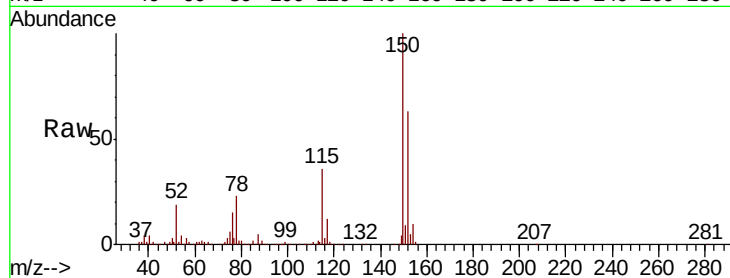
Tot Ion:152 Resp: 667208

Ion Ratio Lower Upper

152 100

115 56.8 28.3 85.0

150 156.5 0.0 347.8

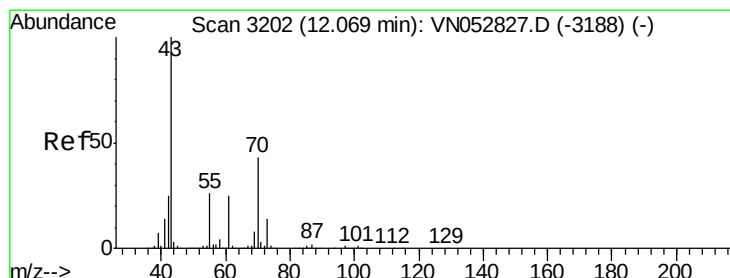
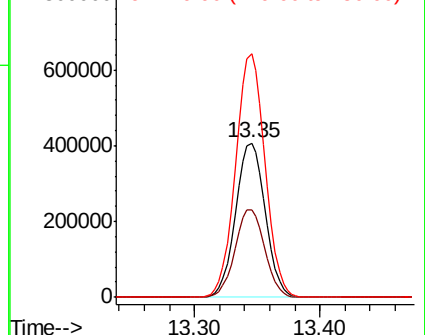
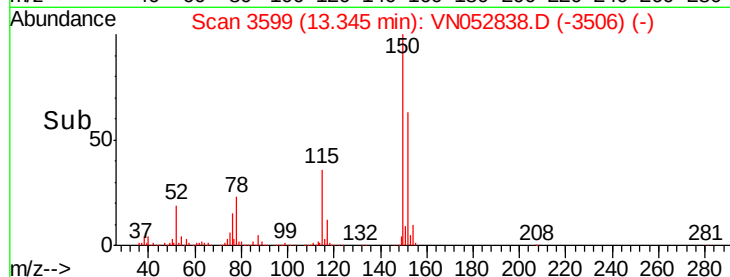


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.751 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Tgt Ion: 43 Resp: 51307

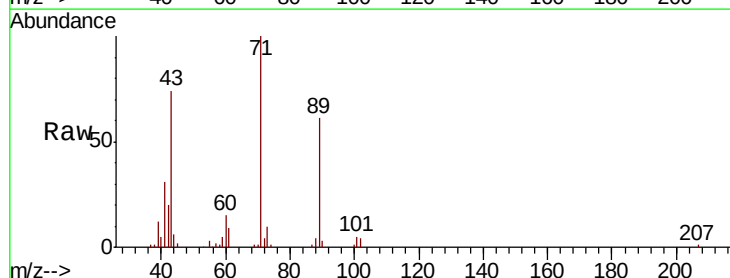
Ion Ratio Lower Upper

43 100

70 2.0 34.2 51.4#

55 4.3 20.3 30.5#

61 11.5 20.0 30.0#



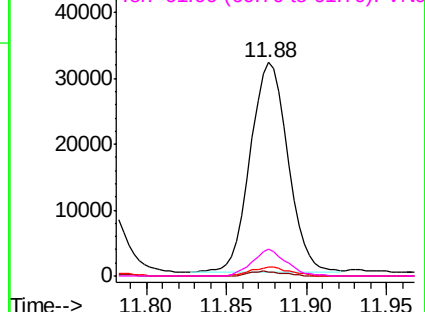
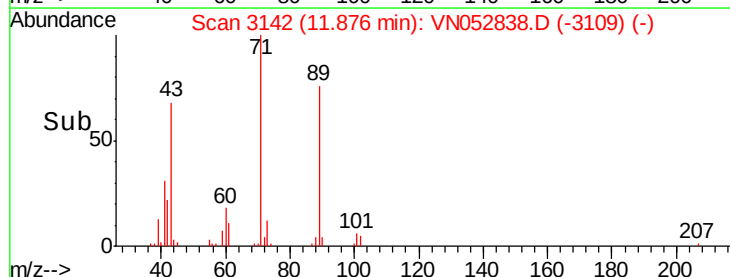
Abundance

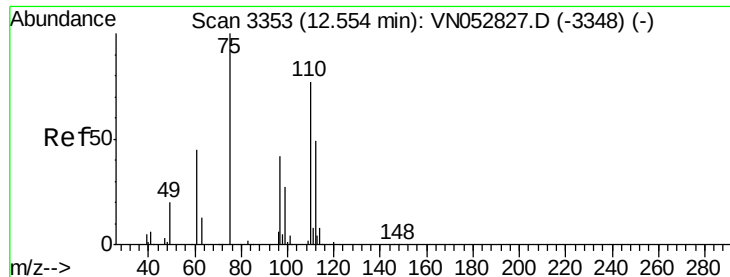
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

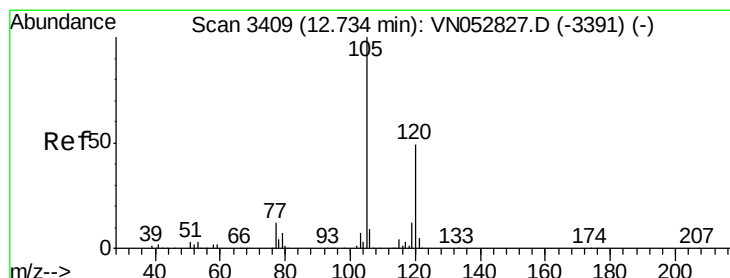
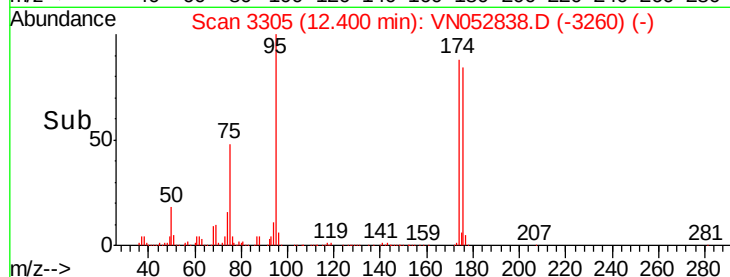
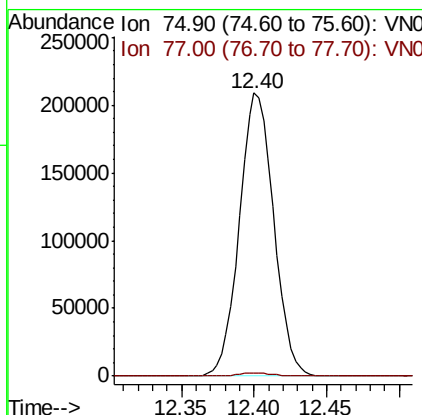
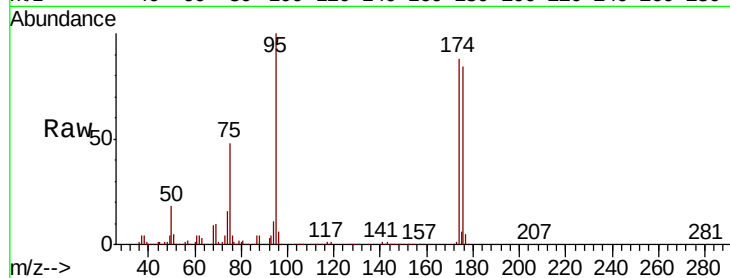




#76
 1,2,3-Trichloropropane
 Concen: 34.949 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052838.D
 Acq: 12 Dec 2018 20:13

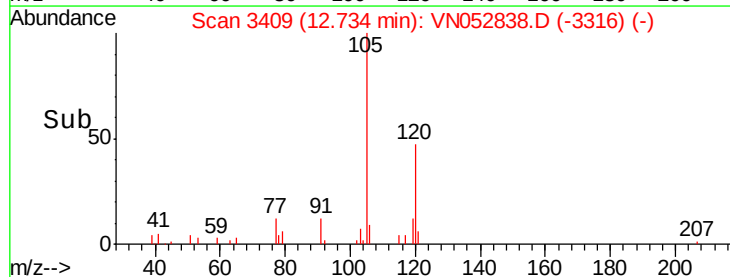
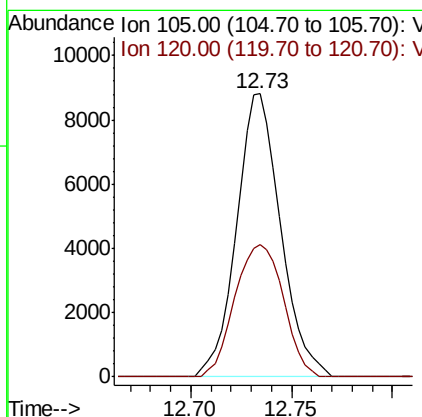
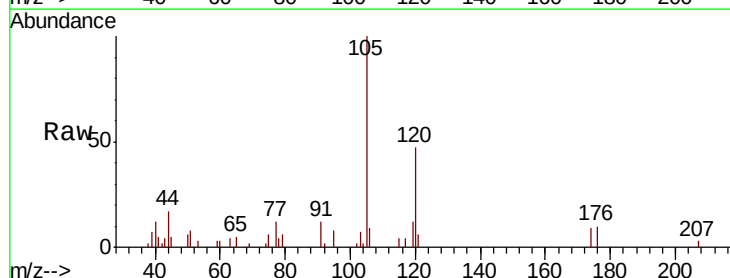
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#02

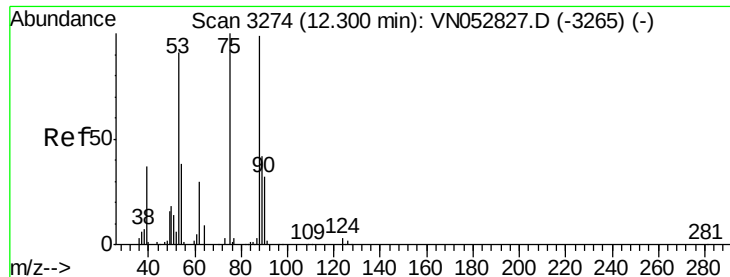
Tot Ion: 75 Resp: 344039
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.335 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. -0.00 min
 Lab File: VN052838.D
 Acq: 12 Dec 2018 20:13

Tgt Ion: 105 Resp: 13483
 Ion Ratio Lower Upper
 105 100
 120 51.4 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 112.275 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052838.D

Acq: 12 Dec 2018 20:13

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#02

Tot Ion: 75 Resp: 344039

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

