

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052638.D
 Acq On : 3 Dec 2018 18:16
 Operator : MD\SY
 Sample : PB115231ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231ZHE#09

Quant Time: Dec 04 00:34:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1182829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1818686	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1559438	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	519996	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	620620	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
35) Dibromofluoromethane	7.59	113	562959	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
50) Toluene-d8	10.09	98	2217740	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	12.40	95	648718	44.23	ug/l	0.00
Spiked Amount			Recovery	=	88.46%	

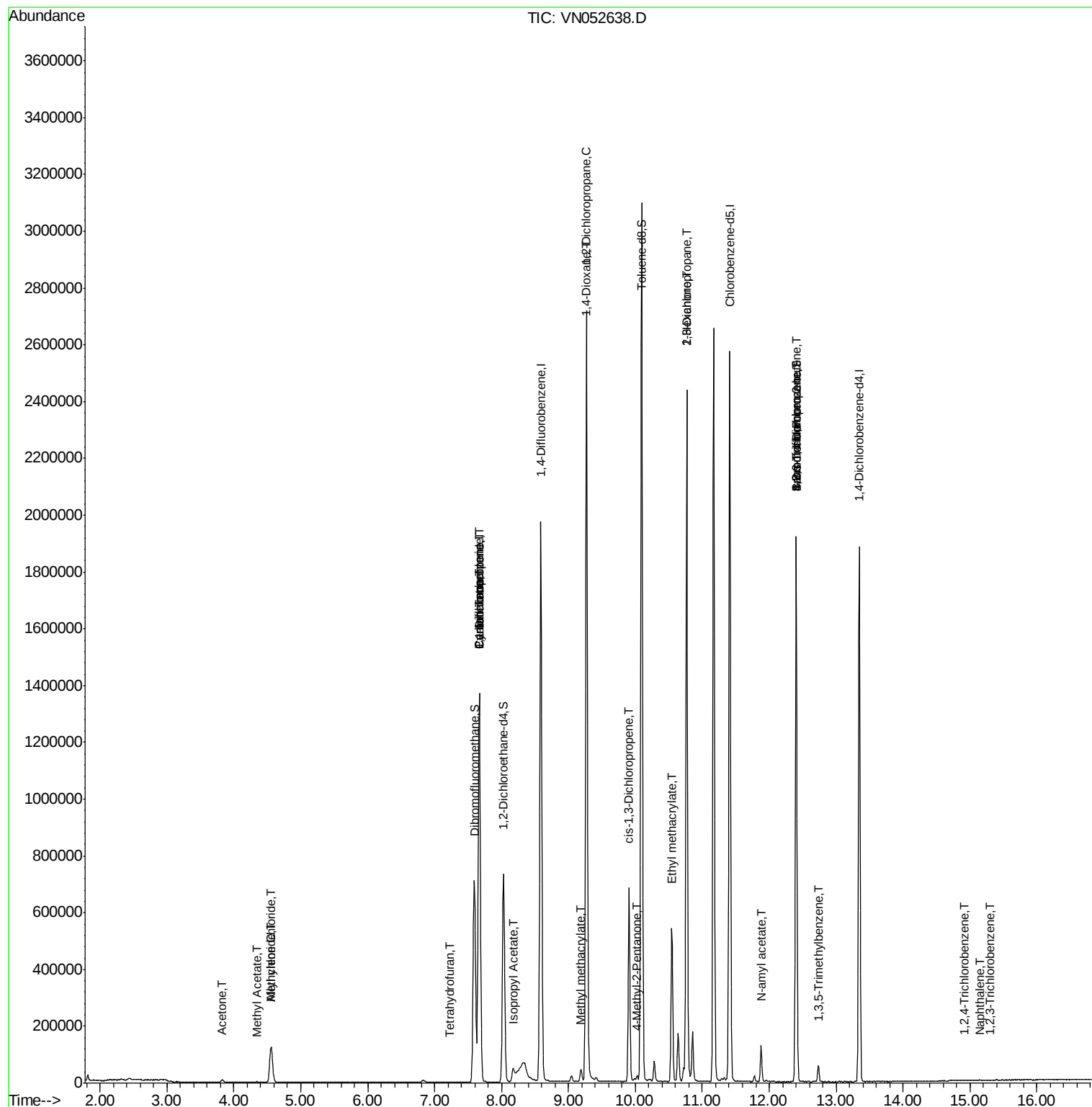
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	3993	0.209	ug/l #	26
16) Acetone	3.82	43	13325	3.923	ug/l	97
18) Methyl Acetate	4.34	43	5505	0.565	ug/l #	85
20) Methylene Chloride	4.55	84	97391	7.326	ug/l	97
29) Tetrahydrofuran	7.23	42	1770	0.570	ug/l #	53
31) Cyclohexane	7.67	56	20889	0.581	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	79429	4.625	ug/l #	50
38) Carbon Tetrachloride	7.67	117	102726	6.607	ug/l #	16
43) Isopropyl Acetate	8.17	43	63802	3.597	ug/l #	78
45) 1,2-Dichloropropane	9.27	63	3472	0.255	ug/l #	43
48) Methyl methacrylate	9.18	41	15346	1.659	ug/l #	13
49) 1,4-Dioxane	9.26	88	62	0.646	ug/l #	24
51) 4-Methyl-2-Pentanone	10.02	43	16887	1.697	ug/l #	36
54) cis-1,3-Dichloropropene	9.91	75	127169	6.735	ug/l #	63
56) Ethyl methacrylate	10.55	69	1762	2.805	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	26441	1.400	ug/l #	43
59) 2-Hexanone	10.77	43	353808	52.970	ug/l #	51
71) Bromoform	12.41	173	3951	0.534	ug/l #	1
74) N-amyl acetate	11.88	43	41262	4.003	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	313033	39.038	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	30931	0.951	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	313033	130.369	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	236	2.854	ug/l #	64
95) Naphthalene	15.14	128	622	3.458	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	59	2.733	ug/l #	1

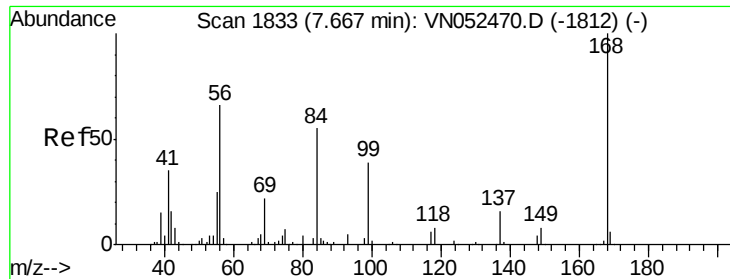
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 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: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

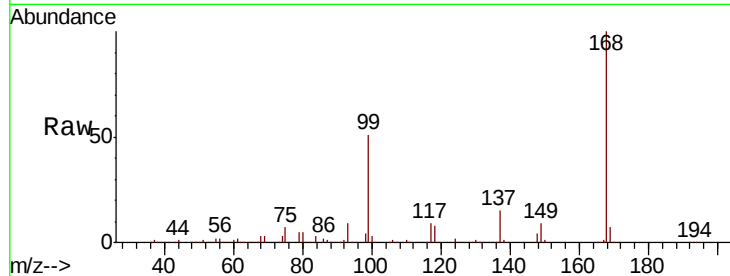
PB115231ZHE#09

Tot Ion:168 Resp: 1182829

Ion Ratio Lower Upper

168 100

99 51.2 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

300000

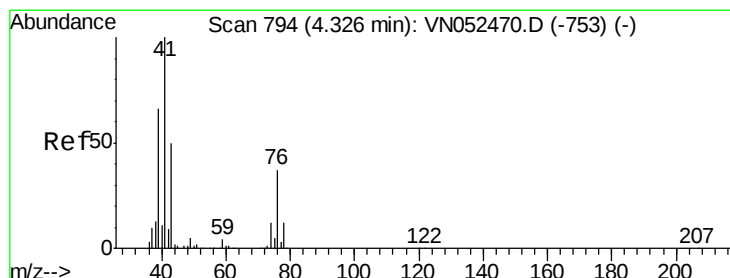
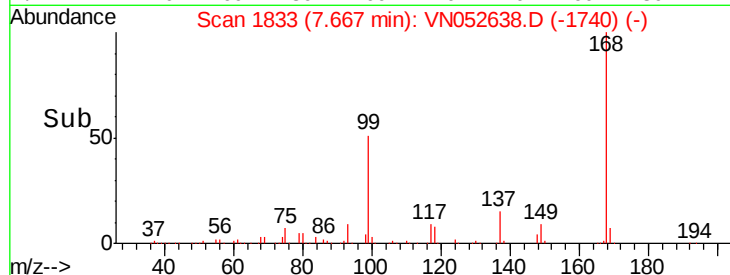
200000

100000

0

Time-->

7.60 7.70 7.80



#14

Allyl chloride

Concen: 0.209 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.23 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

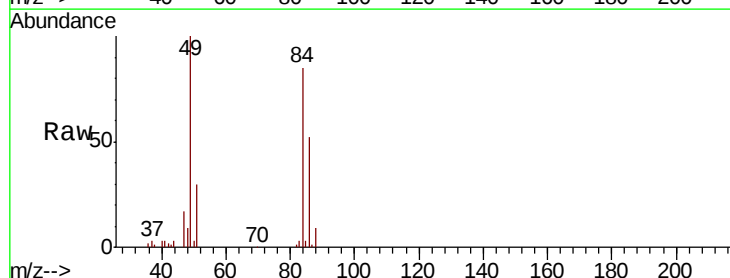
Tgt Ion: 41 Resp: 3993

Ion Ratio Lower Upper

41 100

39 0.0 50.6 76.0#

76 0.0 27.4 41.2#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

1500

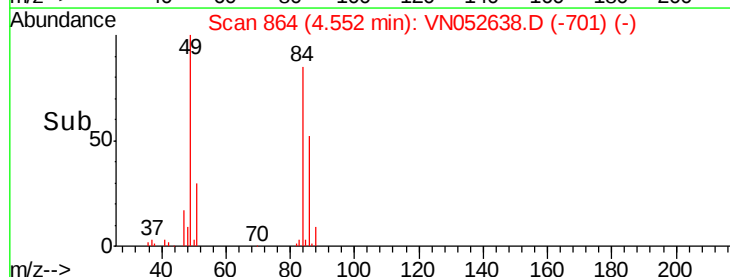
1000

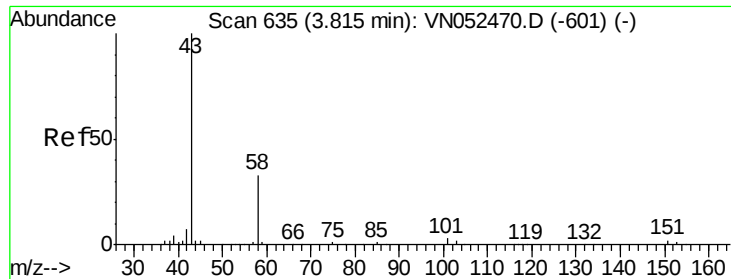
500

0

Time-->

4.50 4.55 4.60





#16

Acetone

Concen: 3.923 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

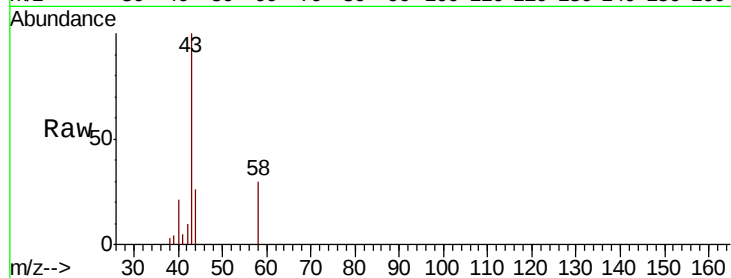
PB115231ZHE#09

Tot Ion: 43 Resp: 13325

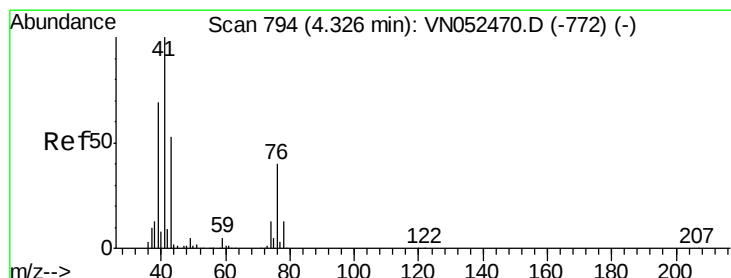
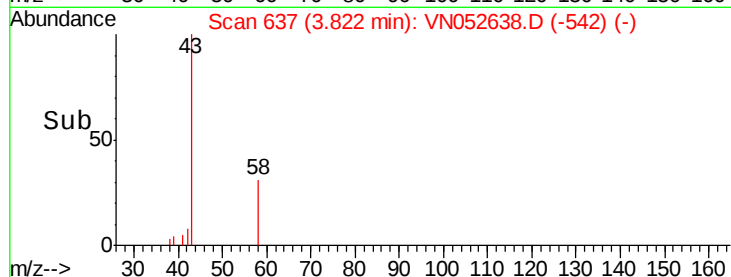
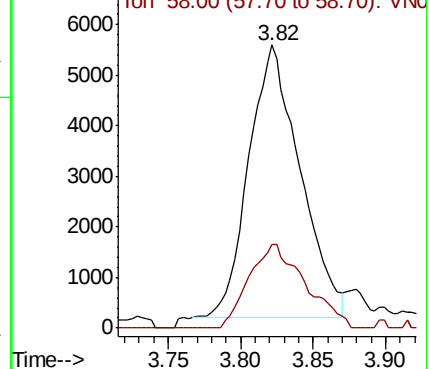
Ion Ratio Lower Upper

43 100

58 30.6 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052638.D (-601) (-)



#18

Methyl Acetate

Concen: 0.565 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN052638.D

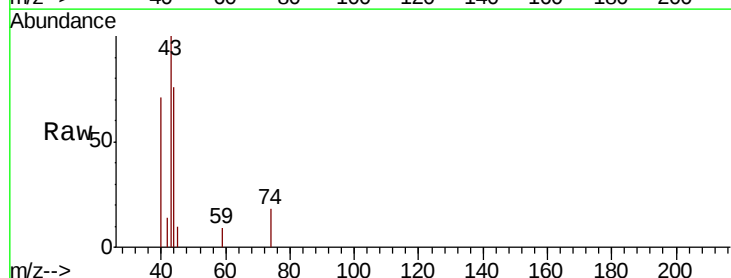
Acq: 3 Dec 2018 18:16

Tgt Ion: 43 Resp: 5505

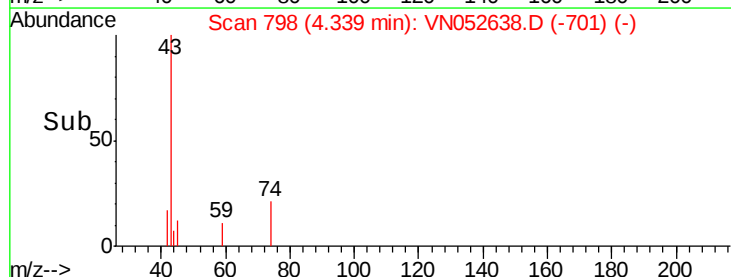
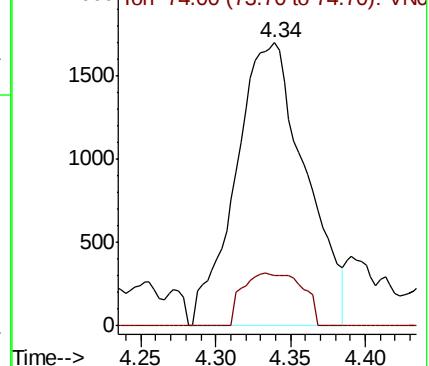
Ion Ratio Lower Upper

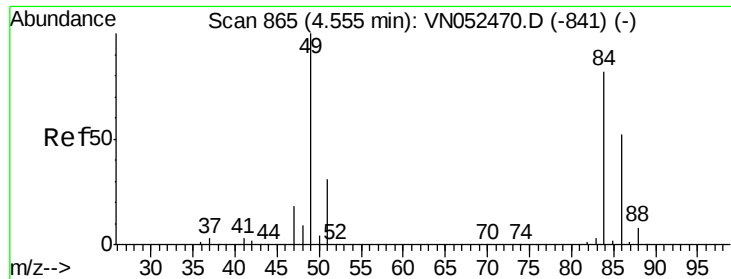
43 100

74 15.9 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052638.D (-772) (-)

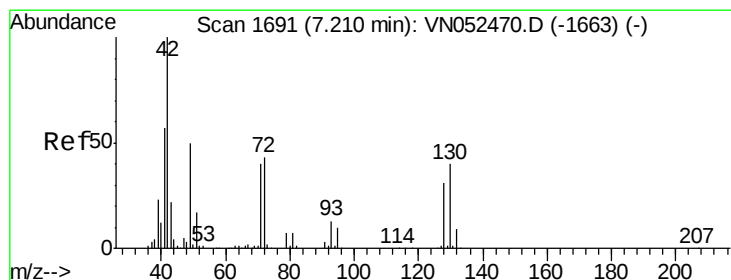
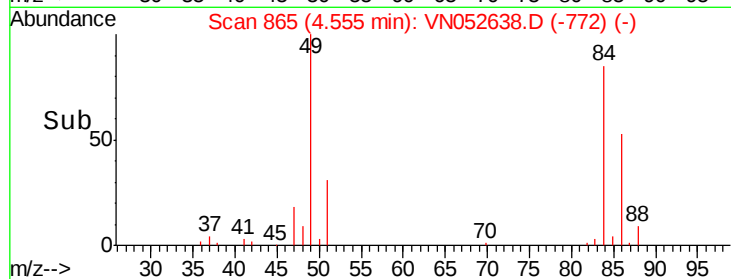
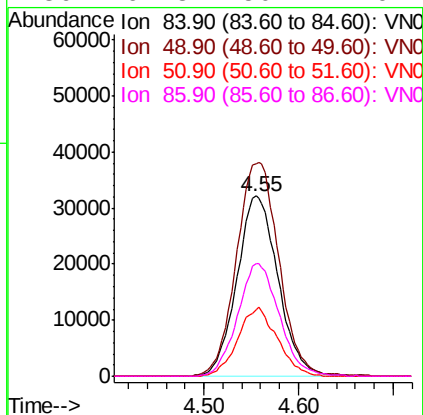
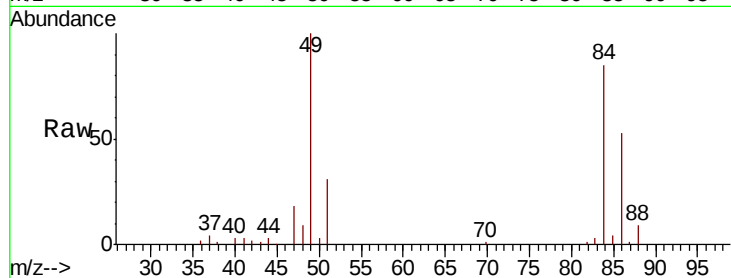




#20
Methvlene Chloride
Concen: 7.326 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

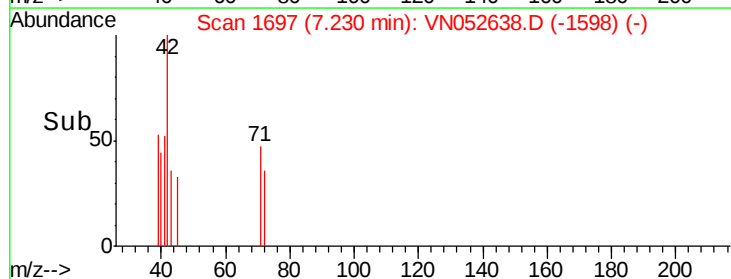
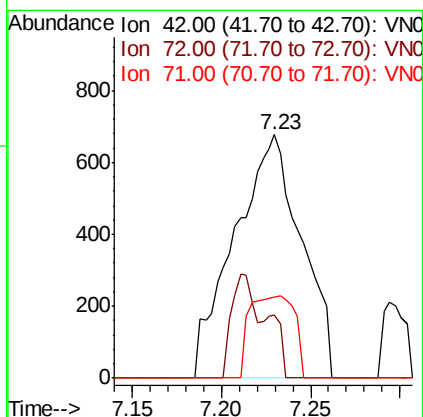
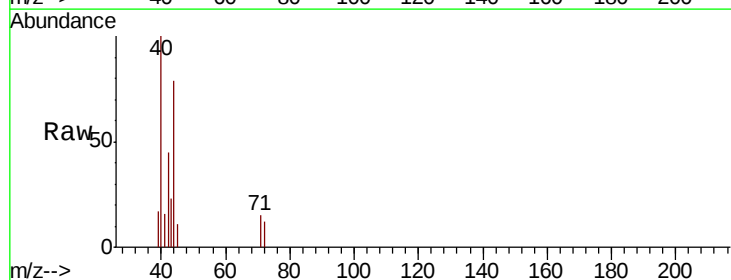
Instrument :
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ClientSampleId :
PB115231ZHE#09

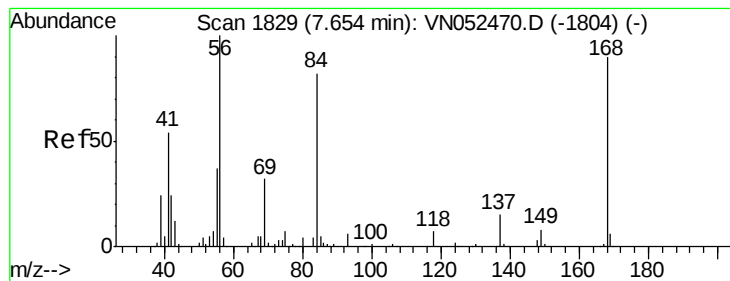
Tot Ion: 84 Resp: 97391
Ion Ratio Lower Upper
84 100
49 118.1 98.0 147.0
51 36.9 30.1 45.1
86 62.8 50.7 76.1



#29
Tetrahydrofuran
Concen: 0.570 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

Tgt Ion: 42 Resp: 1770
Ion Ratio Lower Upper
42 100
72 0.0 33.3 49.9#
71 22.8 32.0 48.0#





#31

Cyclohexane

Concen: 0.581 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

PB115231ZHE#09

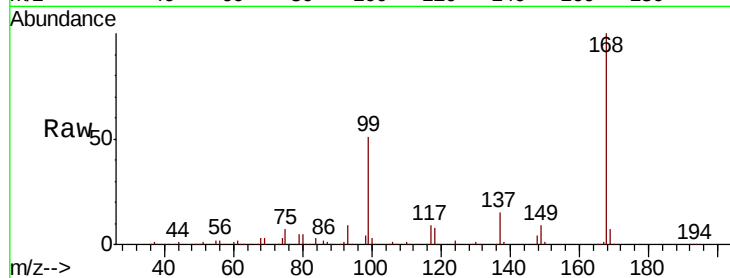
Tot Ion: 56 Resp: 20889

Ion Ratio Lower Upper

56 100

69 182.6 25.8 38.6#

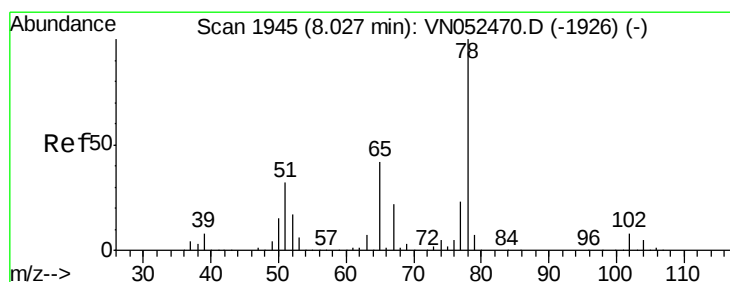
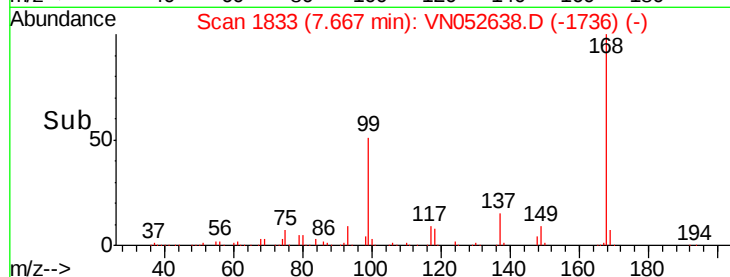
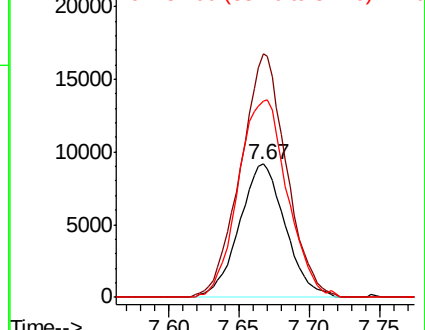
84 147.3 65.3 97.9#



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# 1946

Delta R.T. 0.00 min

Lab File: VN052638.D

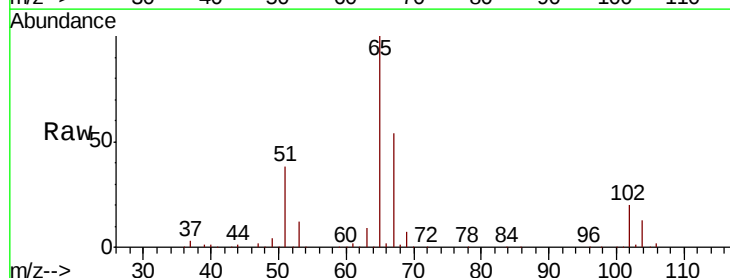
Acq: 3 Dec 2018 18:16

Tgt Ion: 65 Resp: 620620

Ion Ratio Lower Upper

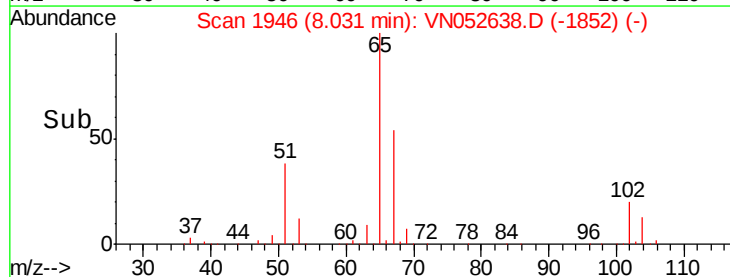
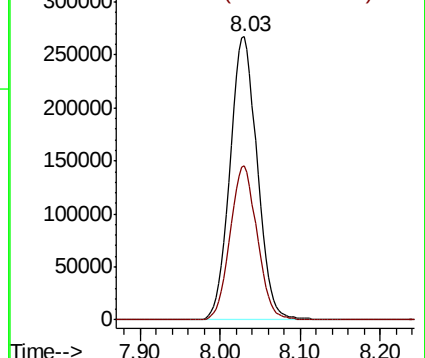
65 100

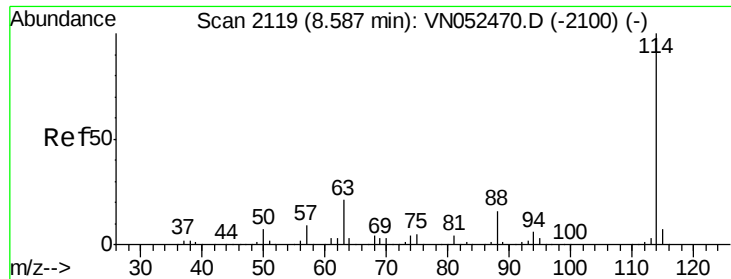
67 53.9 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

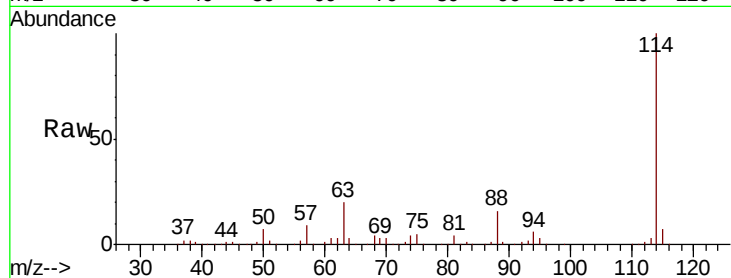




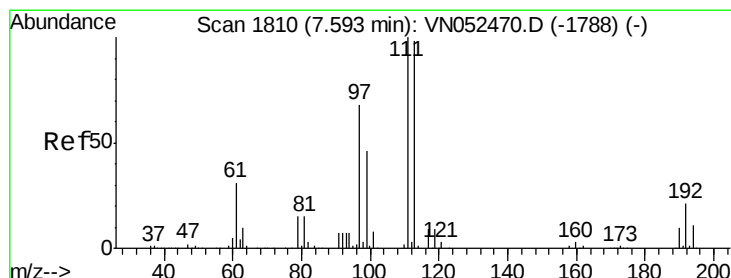
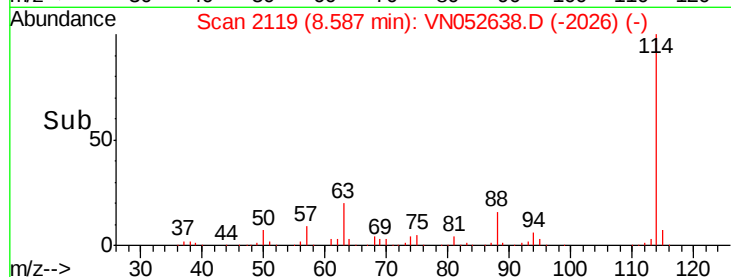
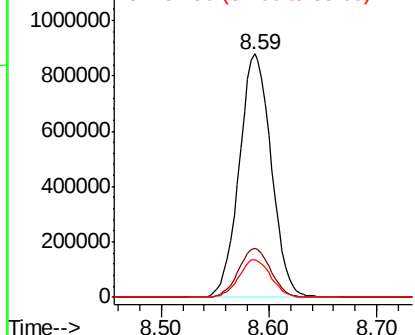
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

Instrument :
 MSVOA_N
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 PB115231ZHE#09

Tot Ion:114 Resp: 1818686
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.8
 88 15.5 0.0 31.6

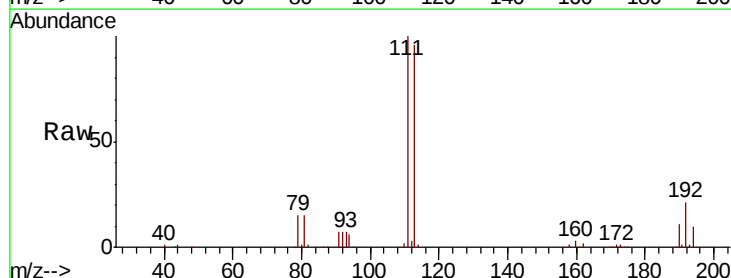


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

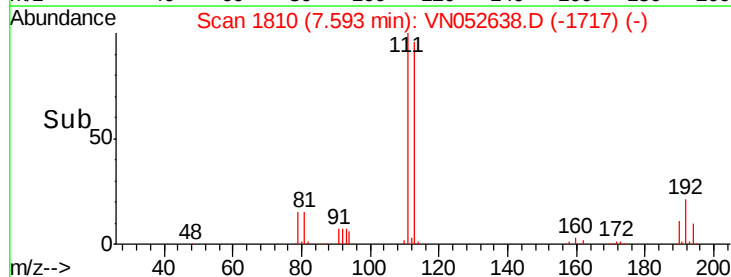
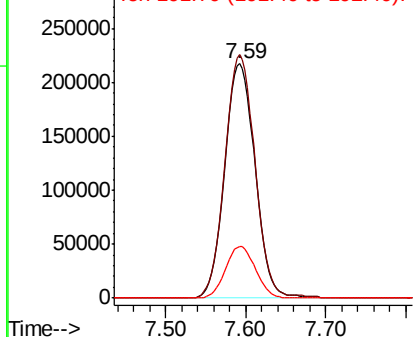


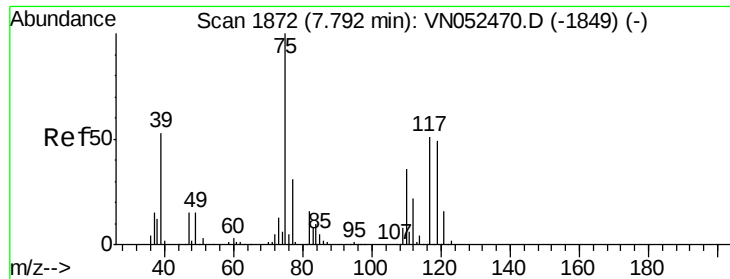
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

Tgt Ion:113 Resp: 562959
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.0 123.0
 192 21.8 17.0 25.6



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: 4.625 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

PB115231ZHE#09

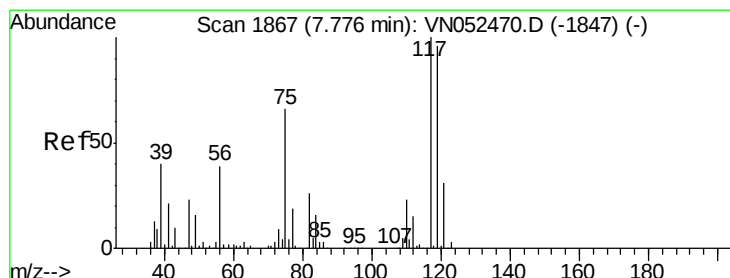
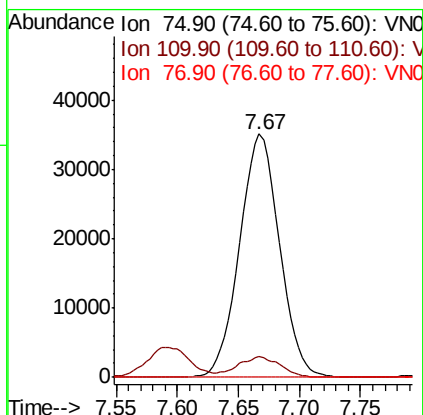
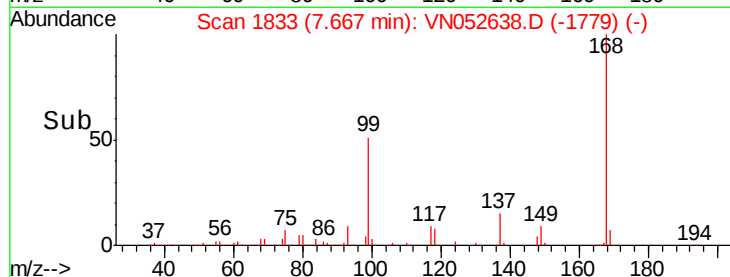
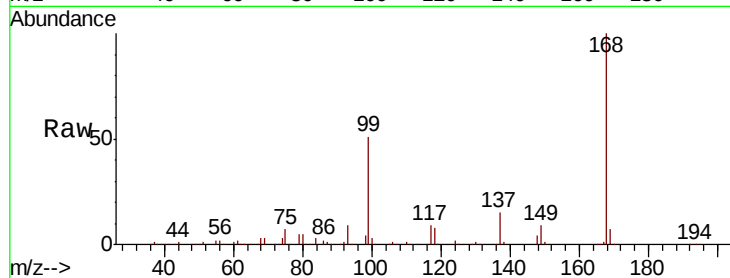
Tot Ion: 75 Resp: 79429

Ion Ratio Lower Upper

75 100

110 8.9 17.5 52.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.607 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

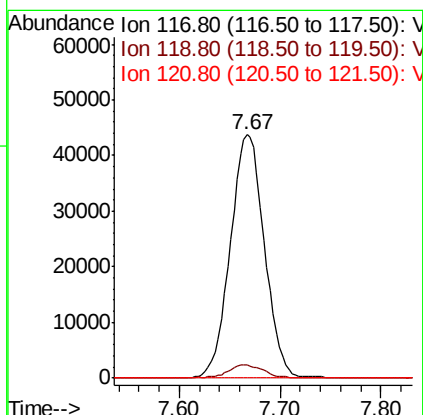
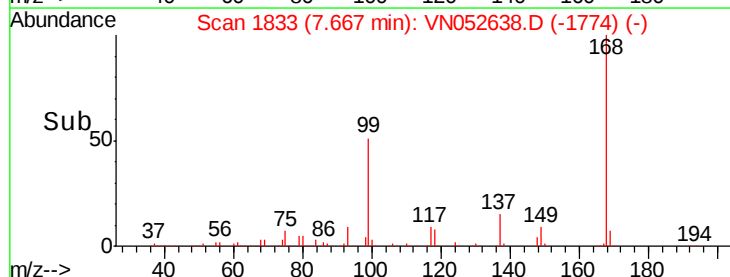
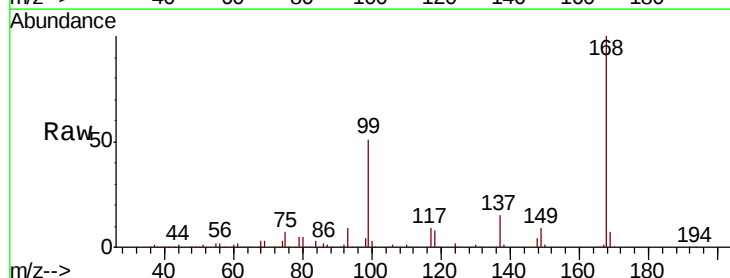
Tgt Ion: 117 Resp: 102726

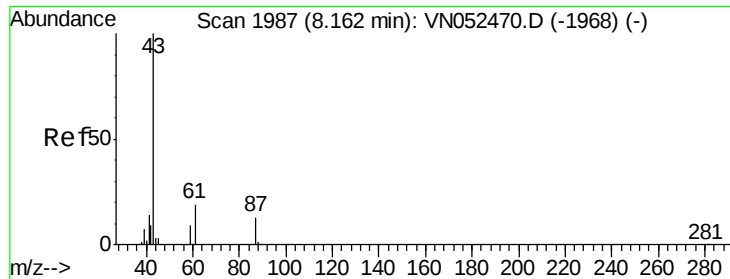
Ion Ratio Lower Upper

117 100

119 5.7 76.8 115.2#

121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 3.597 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

PB115231ZHE#09

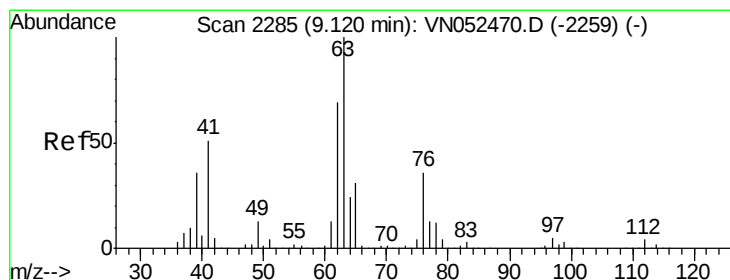
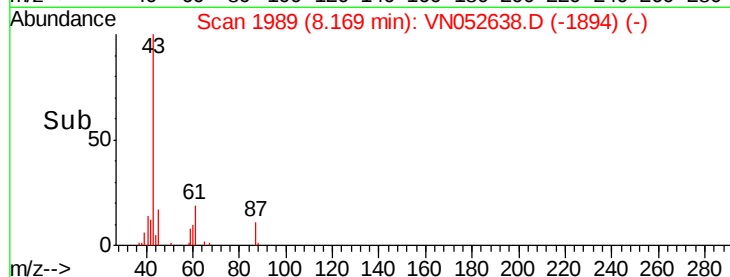
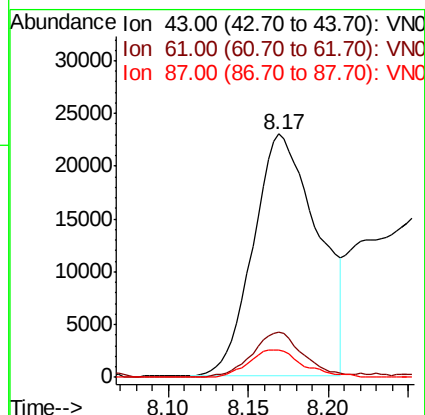
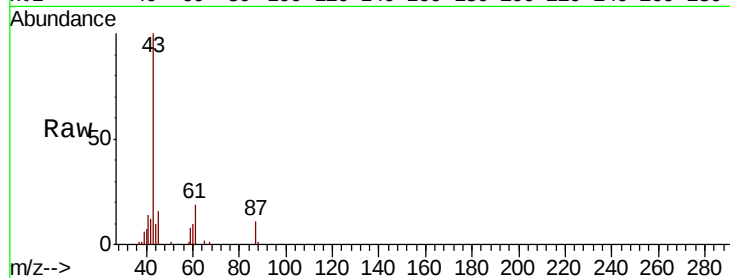
Tot Ion: 43 Resp: 63802

Ion Ratio Lower Upper

43 100

61 15.0 24.1 36.1#

87 9.5 10.6 15.8#



#45

1,2-Dichloropropane

Concen: 0.255 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052638.D

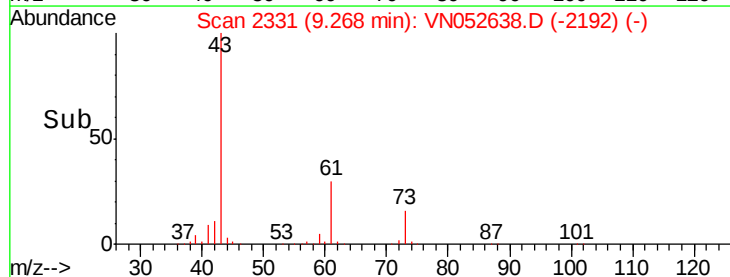
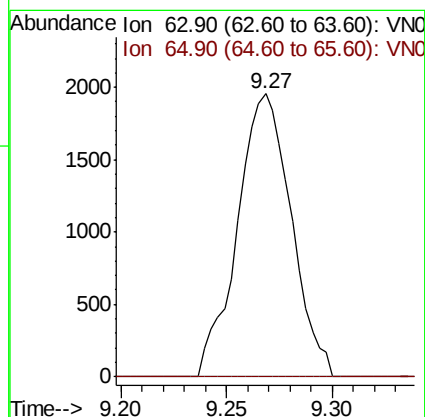
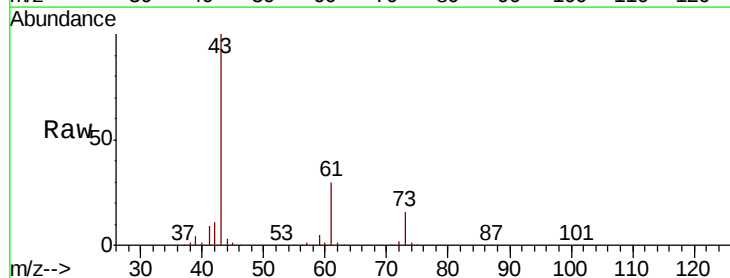
Acq: 3 Dec 2018 18:16

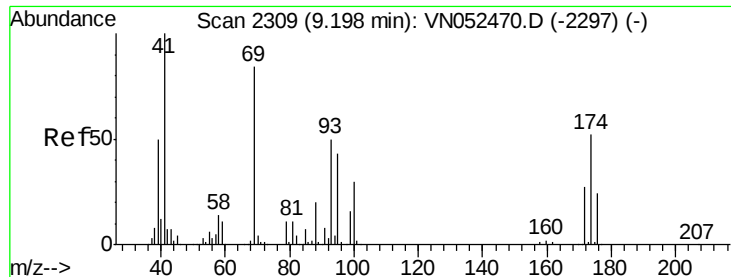
Tgt Ion: 63 Resp: 3472

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

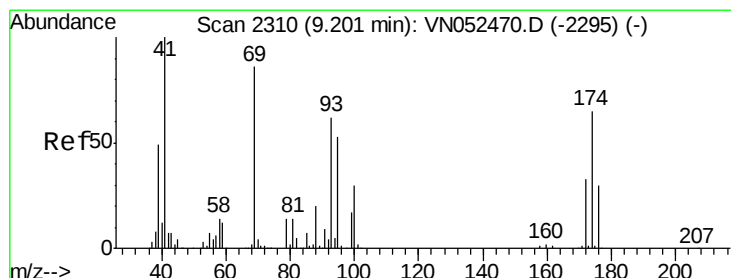
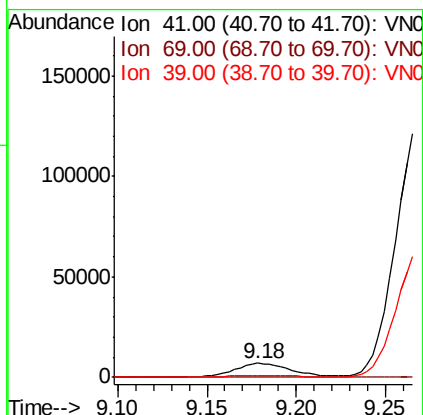
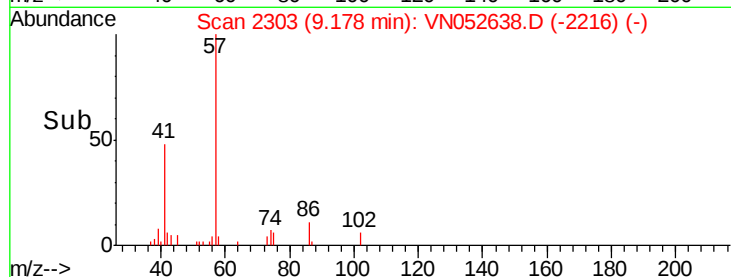
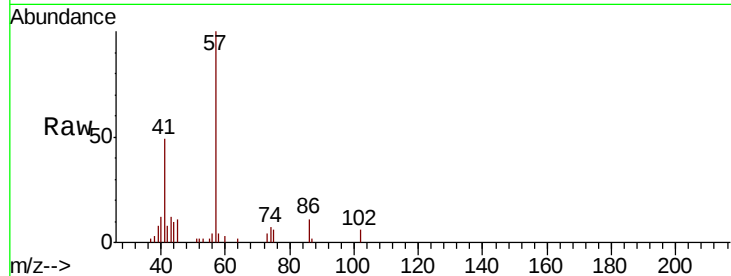




#48
Methvl methacrylate
Concen: 1.659 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

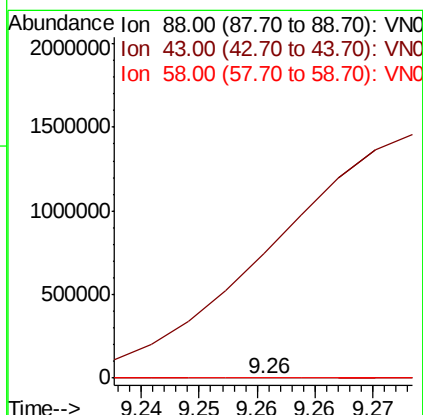
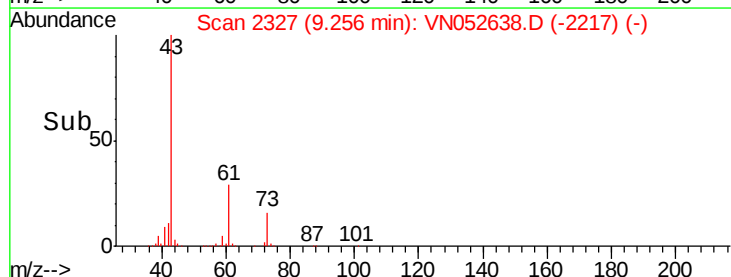
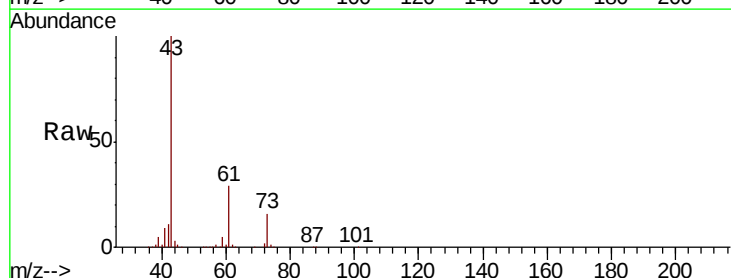
Instrument :
MSVOA_N
ClientSampleId :
PB115231ZHE#09

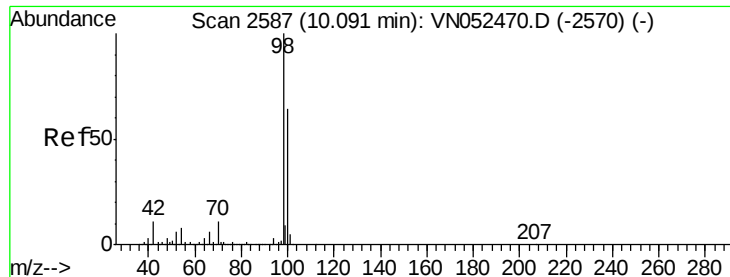
Tot Ion: 41 Resp: 15346
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 0.0 42.6 64.0#



#49
1,4-Dioxane
Concen: 0.646 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.05 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 0.0 26.4 39.6#
58 0.0 55.4 83.0#





#50

Toluene-d8

Concen: 0.646 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

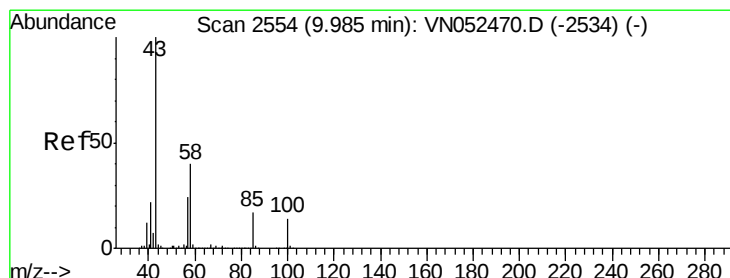
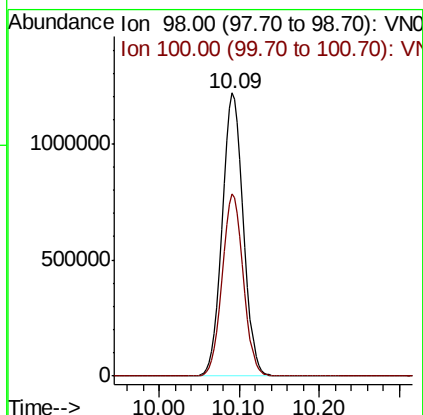
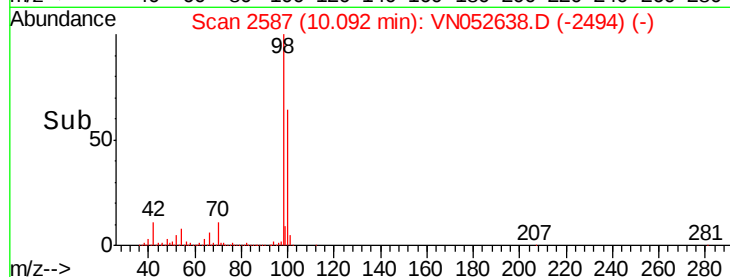
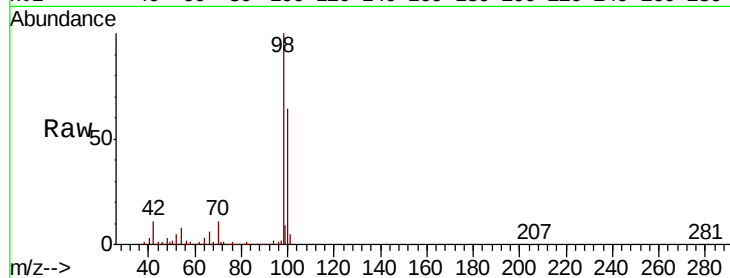
PB115231ZHE#09

Tot Ion: 98 Resp: 2217740

Ion Ratio Lower Upper

98 100

100 64.2 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 1.697 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052638.D

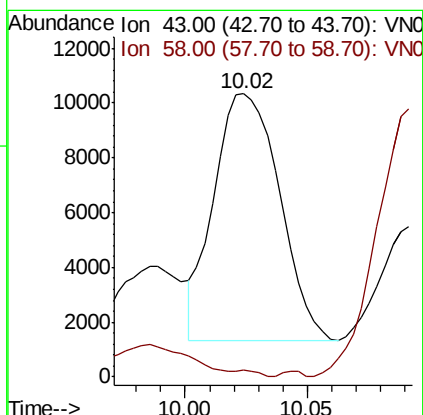
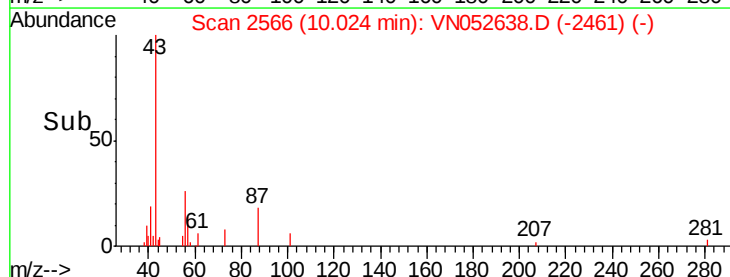
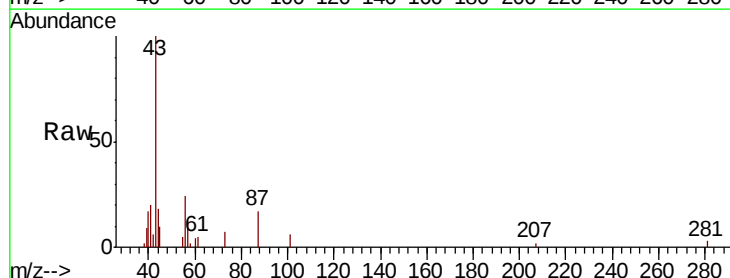
Acq: 3 Dec 2018 18:16

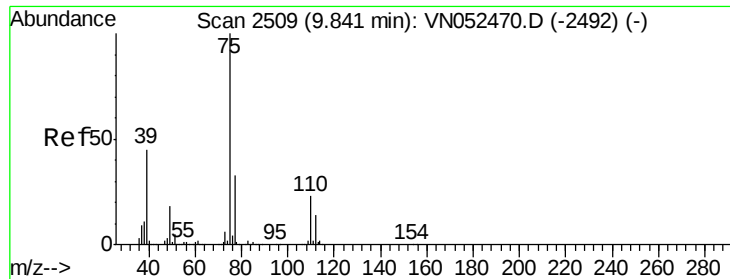
Tgt Ion: 43 Resp: 16887

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#





#54

cis-1,3-Dichloropropene

Concen: 6.735 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

PB115231ZHE#09

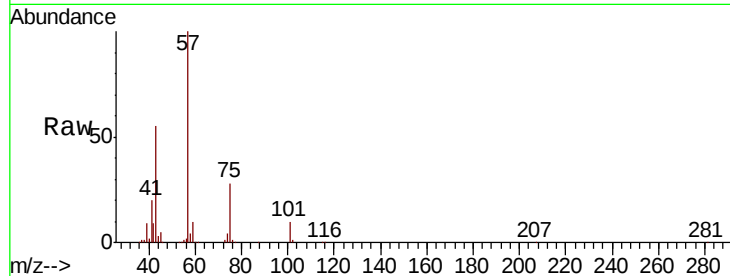
Tot Ion: 75 Resp: 127169

Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.2#

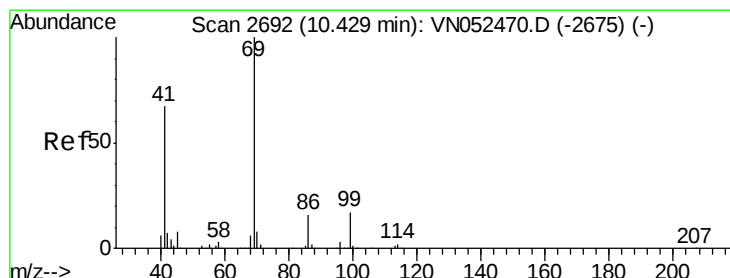
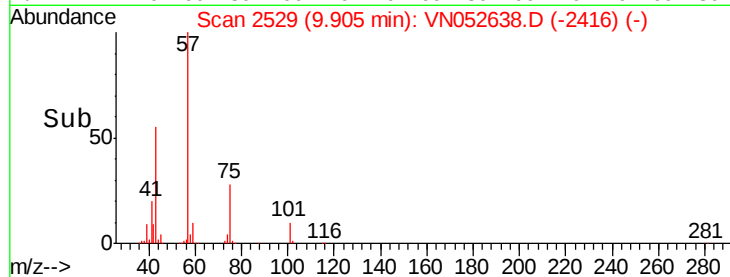
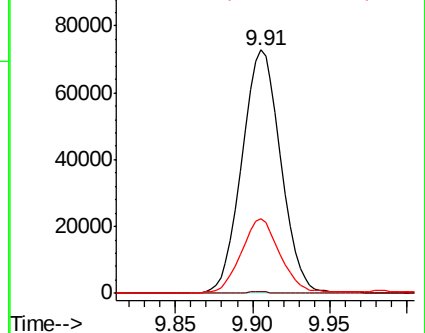
39 30.5 36.0 54.0#



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



#56

Ethyl methacrylate

Concen: 2.805 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

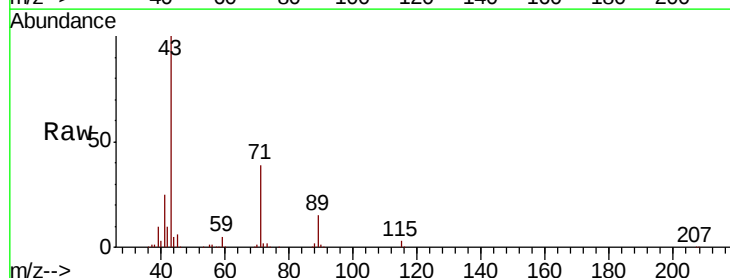
Tgt Ion: 69 Resp: 1762

Ion Ratio Lower Upper

69 100

41 5576.8 52.6 79.0#

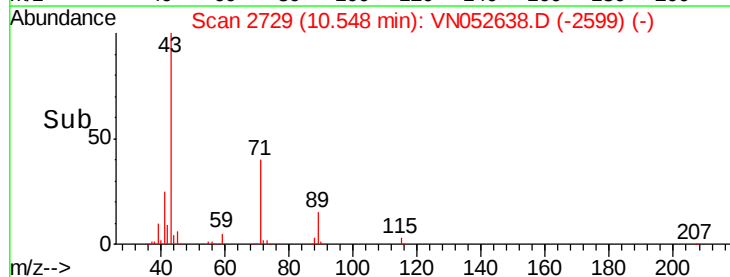
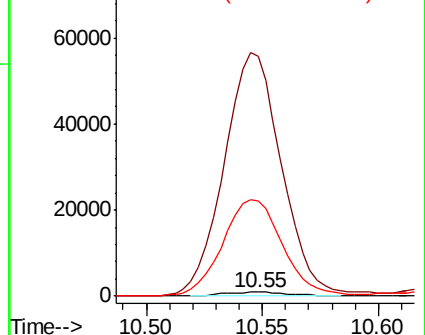
39 2296.4 25.9 38.9#

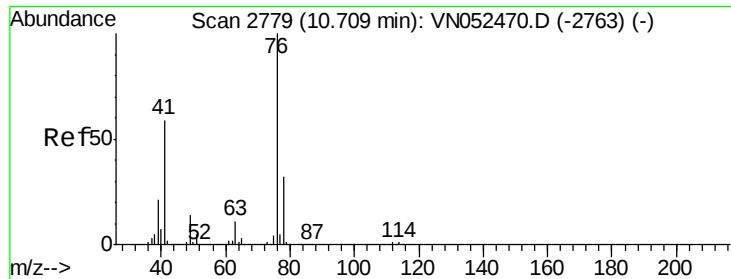


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

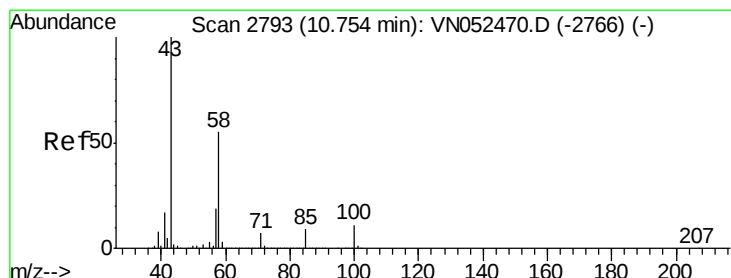
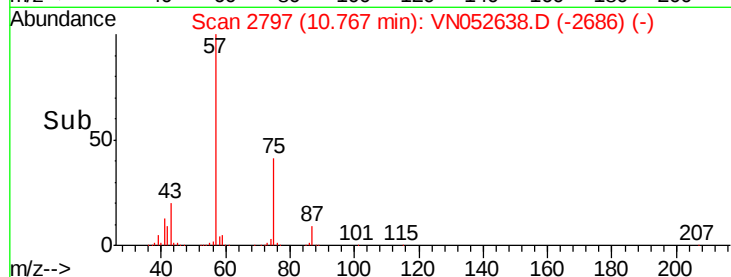
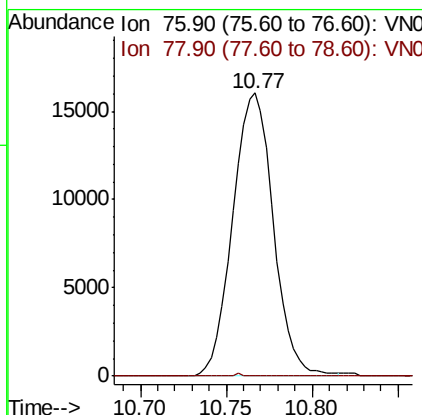
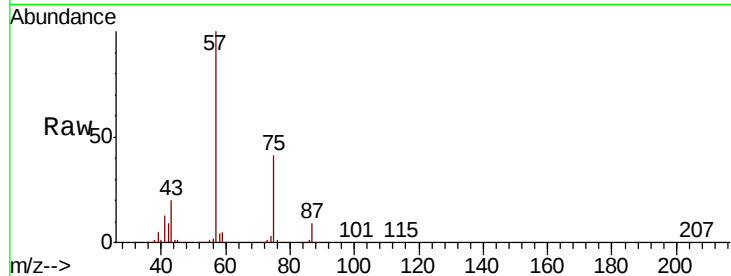




#57
 1,3-Dichloropropane
 Concen: 1.400 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

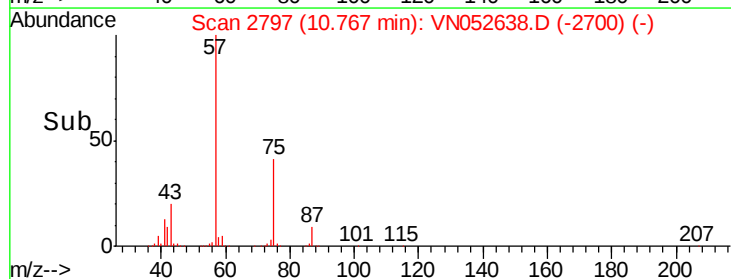
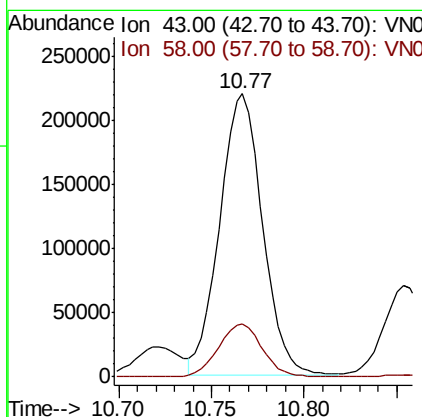
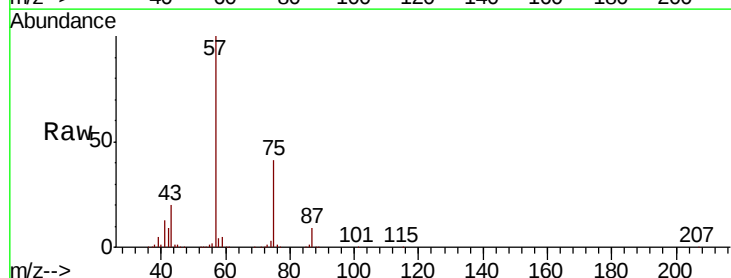
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231ZHE#09

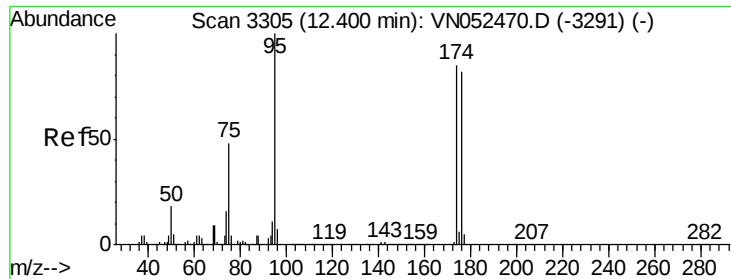
Tot Ion: 76 Resp: 26441
 Ion Ratio Lower Upper
 76 100
 78 0.1 25.6 38.4#



#59
 2-Hexanone
 Concen: 52.970 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

Tgt Ion: 43 Resp: 353808
 Ion Ratio Lower Upper
 43 100
 58 19.4 27.4 82.0#

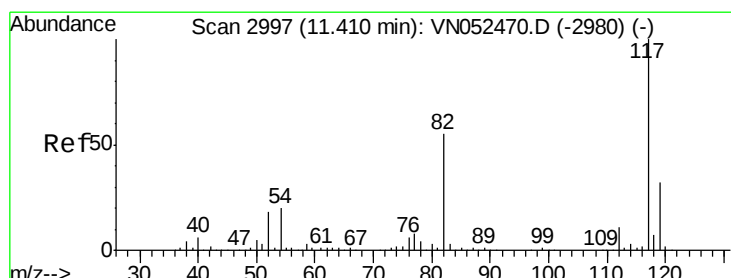
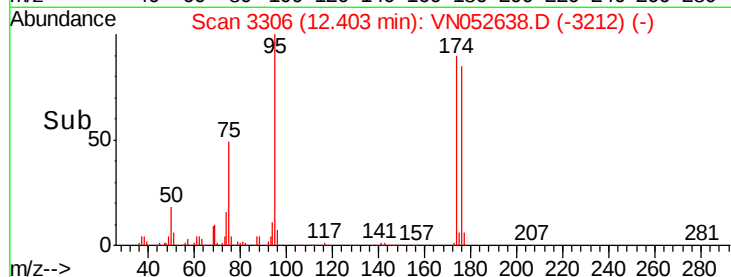
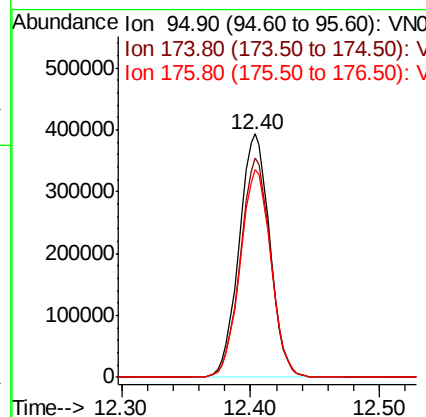
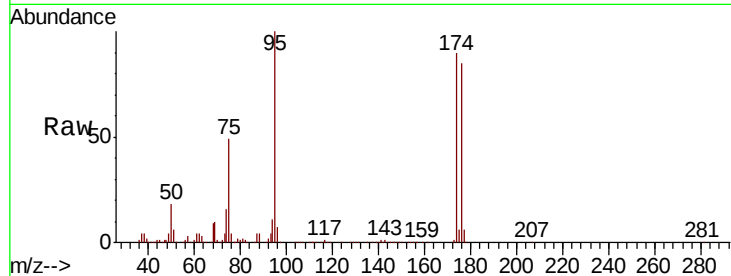




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

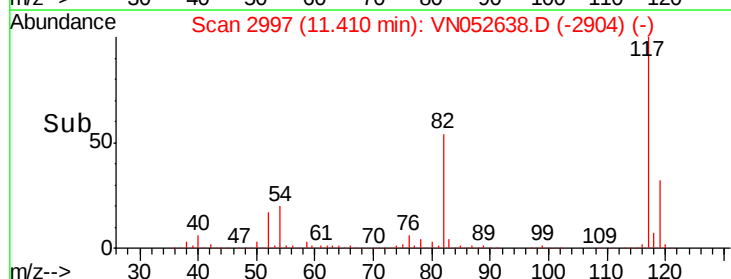
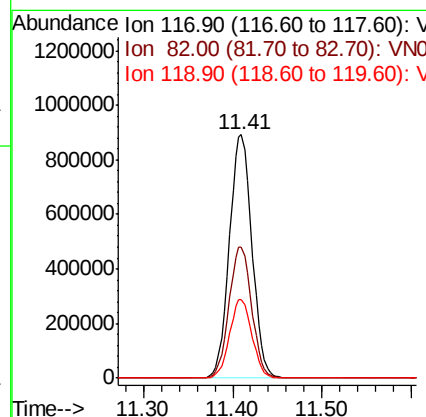
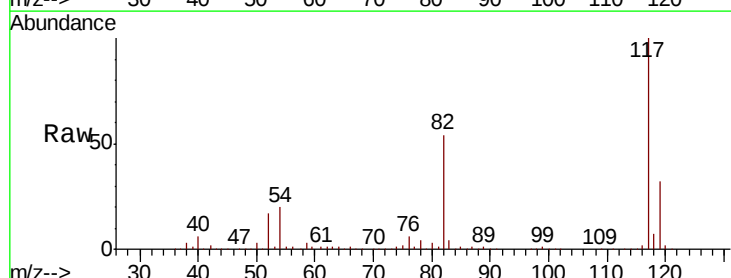
Instrument :
MSVOA_N
ClientSampleId :
PB115231ZHE#09

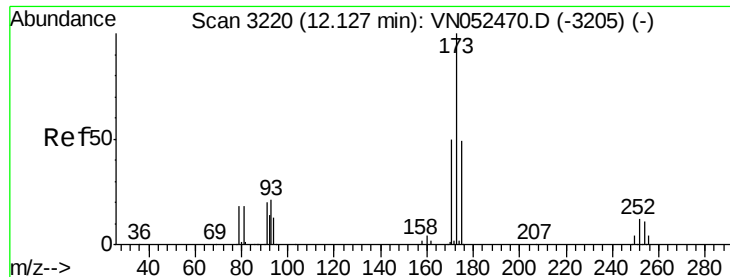
Tot Ion: 95 Resp: 648718
Ion Ratio Lower Upper
95 100
174 89.3 0.0 173.0
176 85.8 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

Tgt Ion: 117 Resp: 1559438
Ion Ratio Lower Upper
117 100
82 53.9 43.6 65.4
119 32.4 25.4 38.2

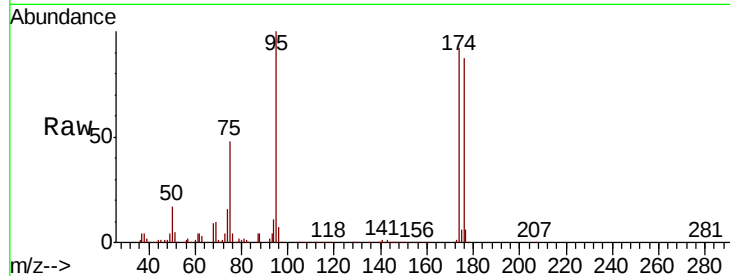




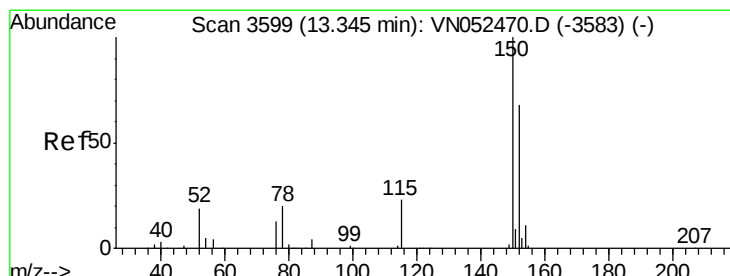
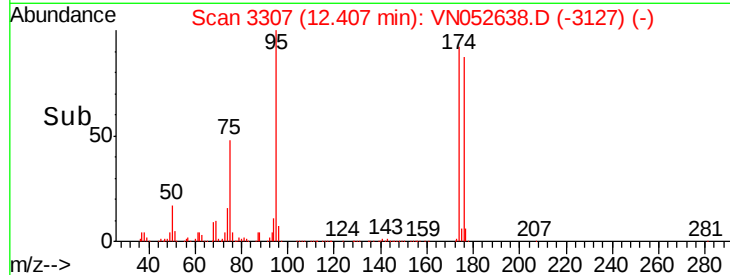
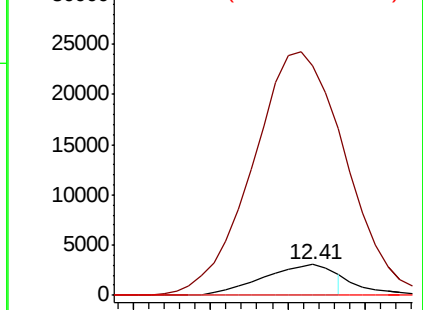
#71
Bromoform
Concen: 0.534 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

Instrument :
MSVOA_N
ClientSampleId :
PB115231ZHE#09

Tot Ion:173 Resp: 3951
Ion Ratio Lower Upper
173 100
175 874.8 24.4 73.2#
254 0.0 0.1 0.1#

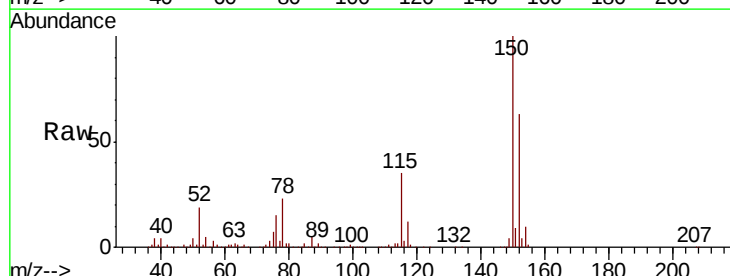


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

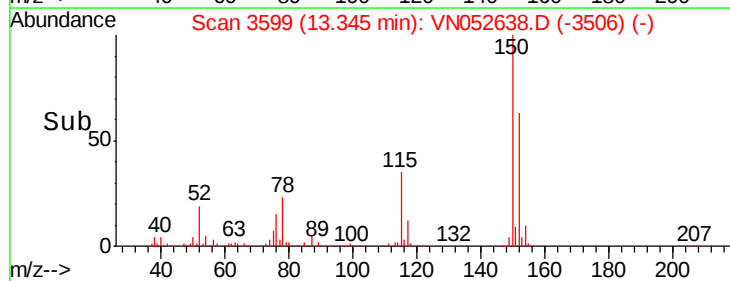
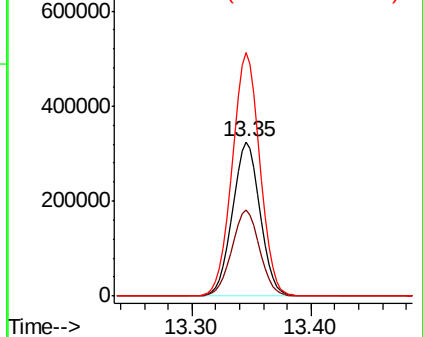


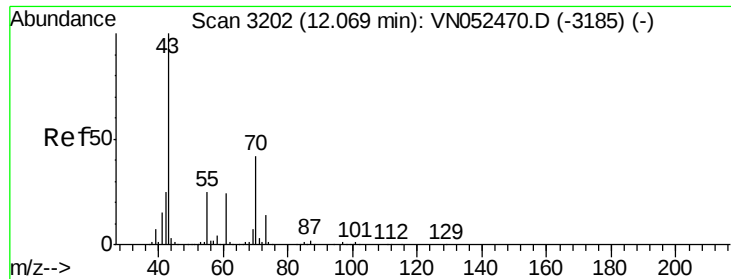
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052638.D
Acq: 3 Dec 2018 18:16

Tgt Ion:152 Resp: 519996
Ion Ratio Lower Upper
152 100
115 56.3 28.4 85.2
150 158.2 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 4.003 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN052638.D

Acq: 3 Dec 2018 18:16

Instrument :

MSVOA_N

ClientSampleId :

PB115231ZHE#09

Tot Ion: 43 Resp: 41262

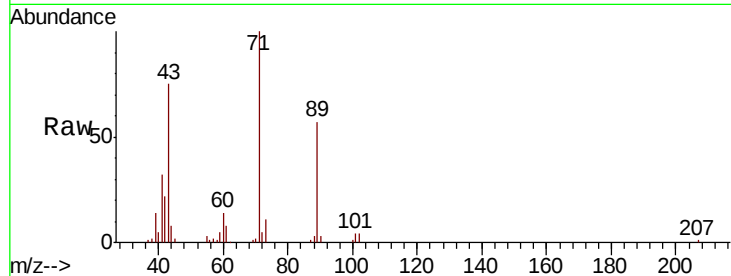
Ion Ratio Lower Upper

43 100

70 1.9 33.8 50.8#

55 4.6 20.0 30.0#

61 10.4 19.7 29.5#

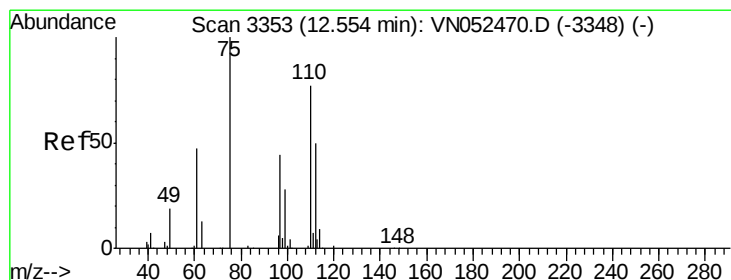
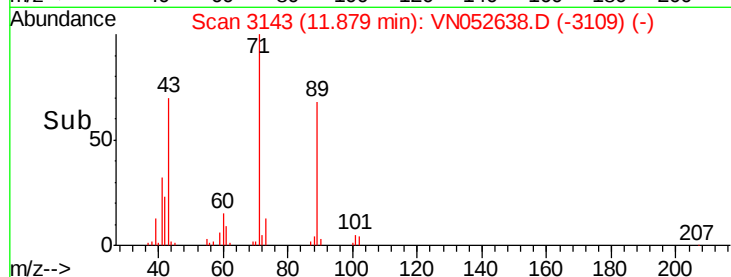
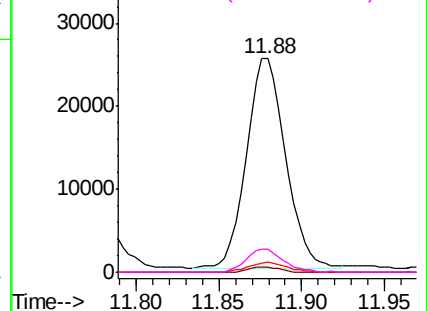


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 39.038 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052638.D

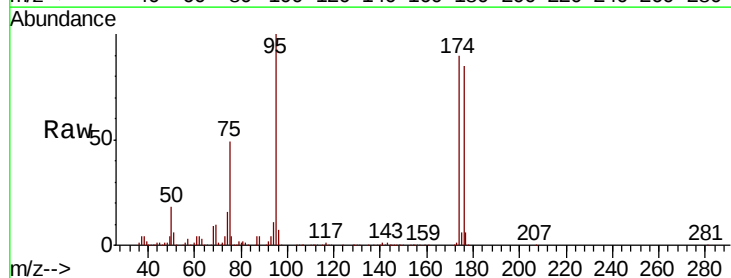
Acq: 3 Dec 2018 18:16

Tgt Ion: 75 Resp: 313033

Ion Ratio Lower Upper

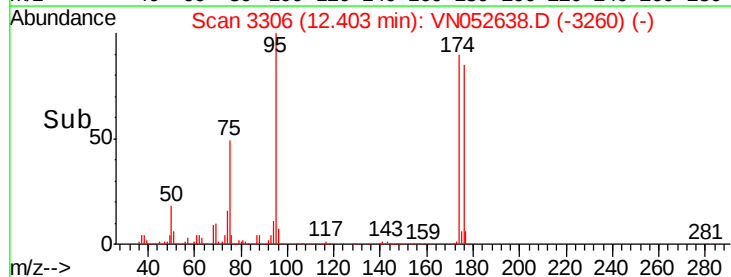
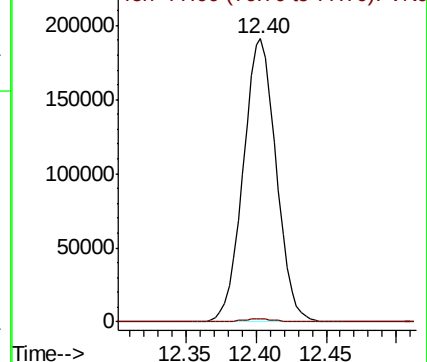
75 100

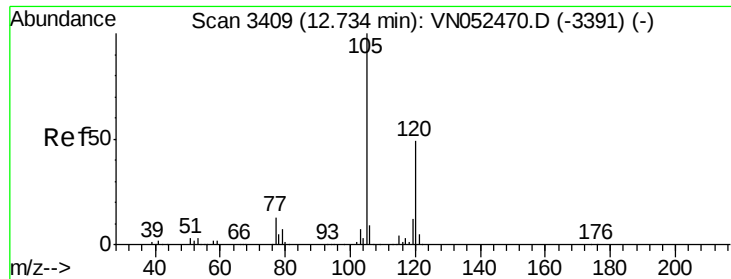
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

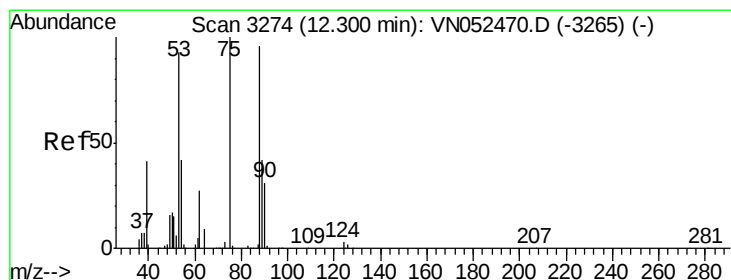
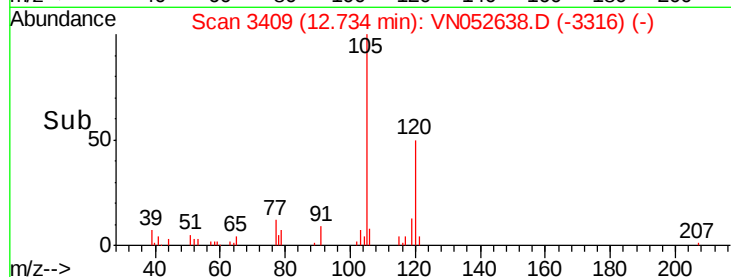
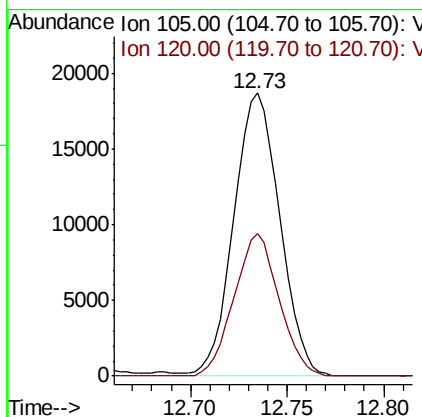
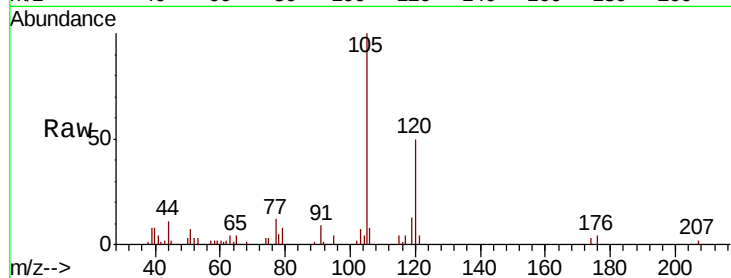




#80
 1,3,5-Trimethylbenzene
 Concen: 0.951 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

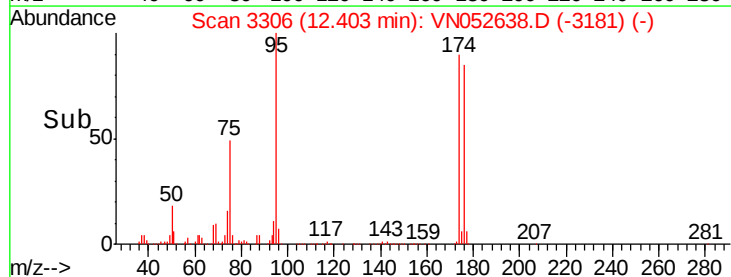
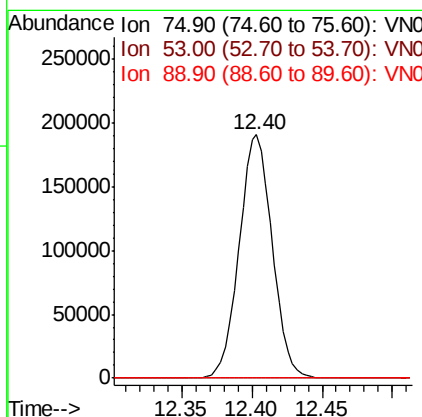
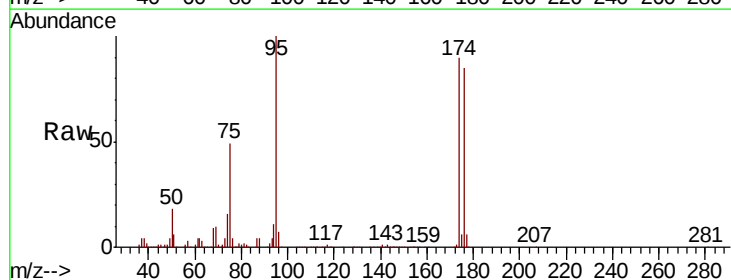
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231ZHE#09

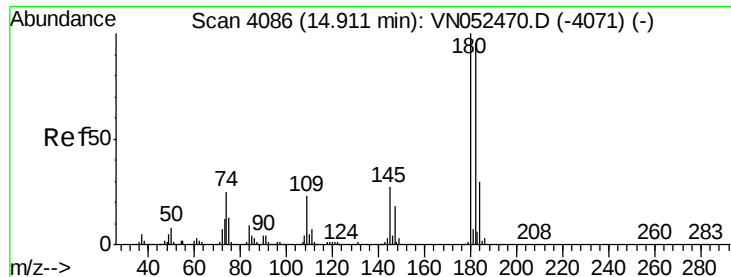
Tot Ion:105 Resp: 30931
 Ion Ratio Lower Upper
 105 100
 120 49.2 24.3 73.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 130.369 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

Tgt Ion: 75 Resp: 313033
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.4 116.0#
 89 0.0 35.4 53.2#

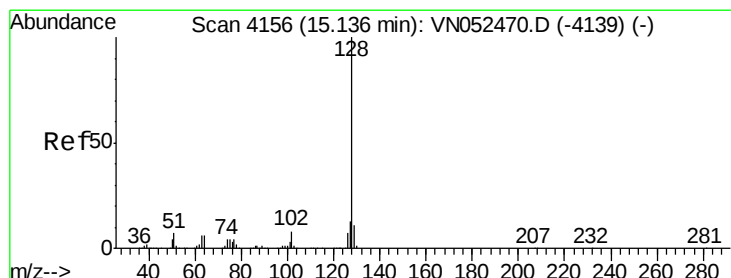
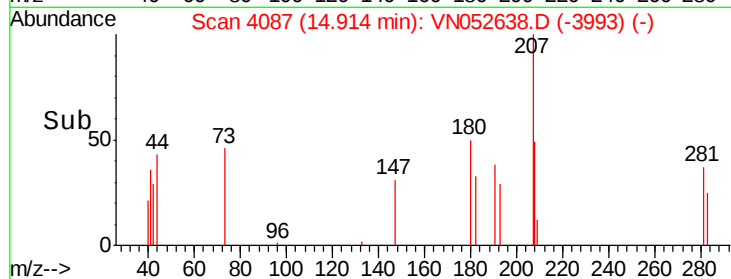
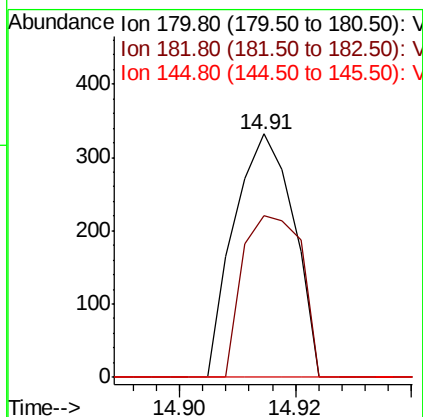
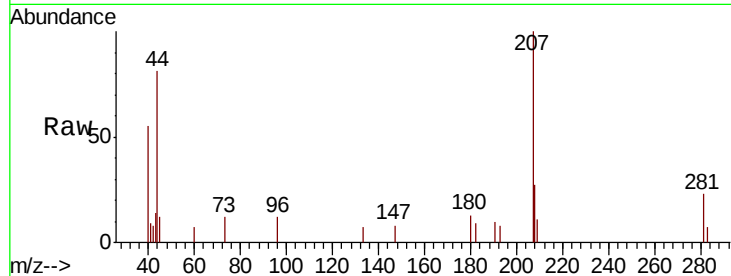




#93
 1,2,4-Trichlorobenzene
 Concen: 2.854 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

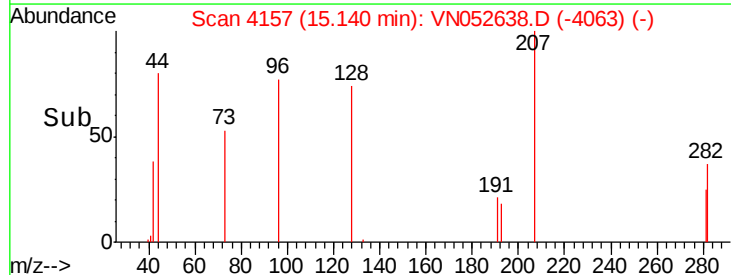
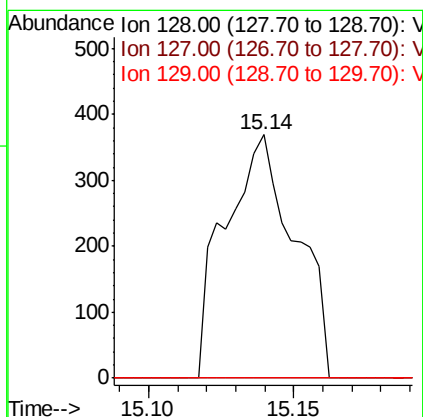
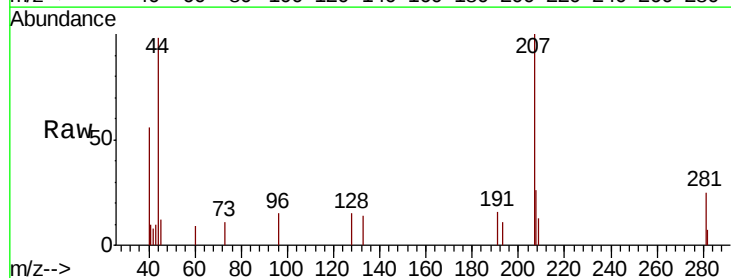
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231ZHE#09

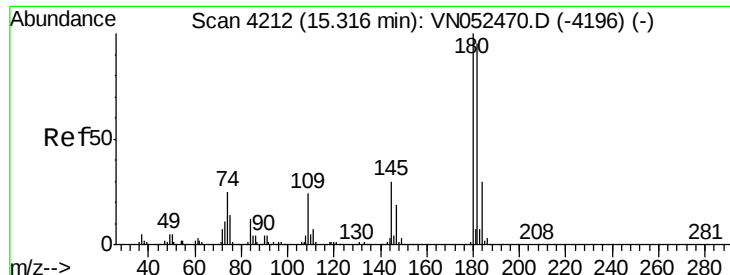
Tot Ion:180 Resp: 236
 Ion Ratio Lower Upper
 180 100
 182 65.7 47.8 143.4
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 3.458 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.00 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

Tgt Ion:128 Resp: 622
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.7 13.1#

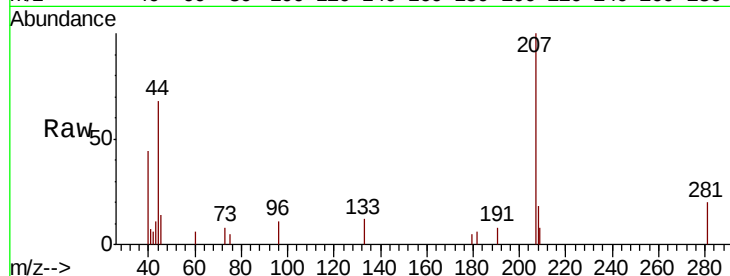




#96
 1,2,3-Trichlorobenzene
 Concen: 2.733 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052638.D
 Acq: 3 Dec 2018 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231ZHE#09

Tot Ion	Ratio	Lower	Upper
180	100		
182	327.1	47.8	143.3#
145	0.0	15.2	45.5#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

