

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121118\
 Data File : VN052796.D
 Acq On : 11 Dec 2018 12:35
 Operator : MD\SY
 Sample : PB115504ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#01

Quant Time: Dec 12 00:26:58 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	1244205	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1939313	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1759971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	724571	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	644234	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	
35) Dibromofluoromethane	7.59	113	543091	45.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.84%	
50) Toluene-d8	10.09	98	2382355	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	
62) 4-Bromofluorobenzene	12.40	95	790781	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	

Target Compounds

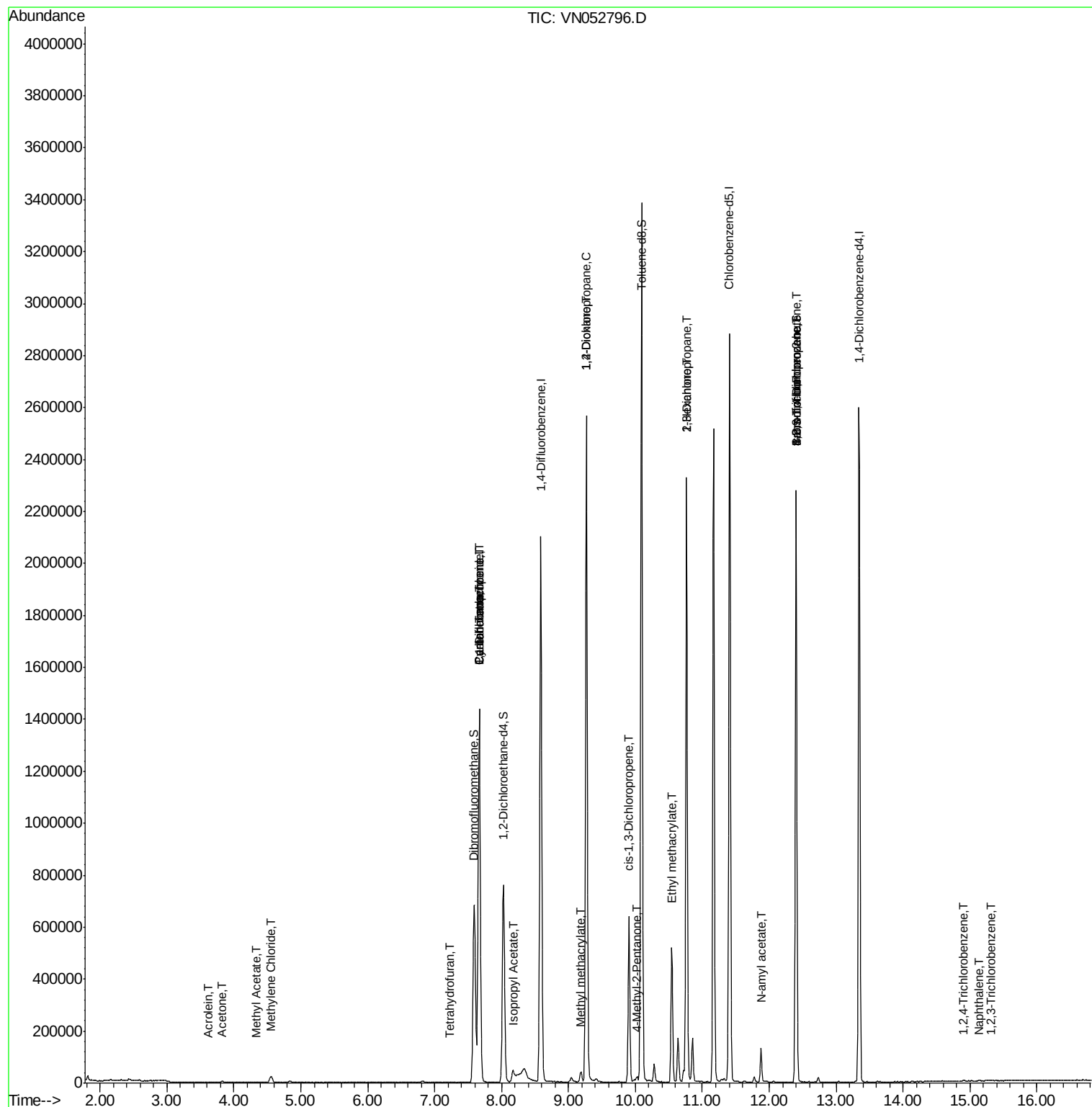
						Qvalue
13) Acrolein	3.62	56	274	0.232	ug/l #	66
16) Acetone	3.82	43	10536	2.949	ug/l	99
18) Methyl Acetate	4.33	43	4066	0.397	ug/l #	75
20) Methylene Chloride	4.55	84	17544	1.255	ug/l	99
29) Tetrahydrofuran	7.22	42	1464	0.448	ug/l #	61
31) Cyclohexane	7.67	56	21588	0.565	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	84032	4.589	ug/l #	50
38) Carbon Tetrachloride	7.67	117	110242	6.650	ug/l #	16
43) Isopropyl Acetate	8.17	43	61233	3.237	ug/l #	77
45) 1,2-Dichloropropane	9.26	63	3214	0.222	ug/l #	43
48) Methyl methacrylate	9.18	41	13414	1.360	ug/l #	13
49) 1,4-Dioxane	9.27	88	368	3.595	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	18143	1.710	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	118143	5.868	ug/l #	60
56) Ethyl methacrylate	10.54	69	1607	2.789	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	24301	1.207	ug/l #	43
59) 2-Hexanone	10.76	43	328397	46.108	ug/l #	51
71) Bromoform	12.40	173	4841	0.579	ug/l #	1
74) N-amyl acetate	11.88	43	40288	2.805	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	374435	33.512	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	374435	111.913	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1410	2.933	ug/l	91
95) Naphthalene	15.13	128	3941	3.563	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	1268	2.828	ug/l #	14

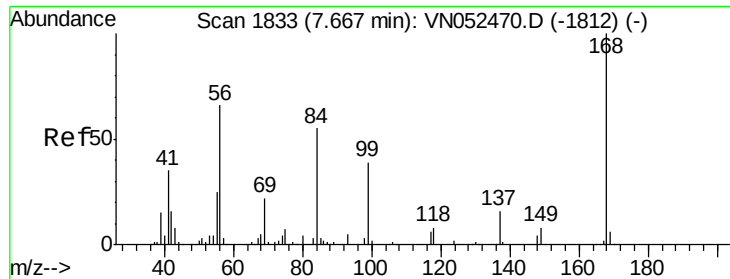
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

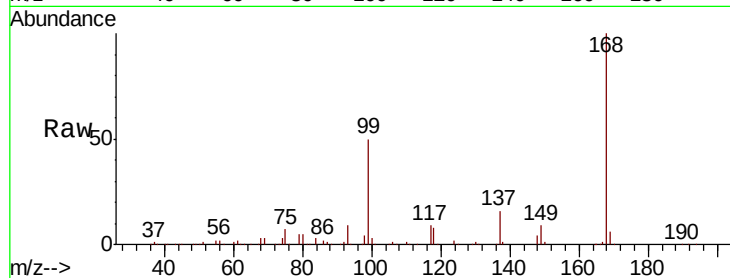
PB115504ZHE#01

Tot Ion:168 Resp: 1244205

Ion Ratio Lower Upper

168 100

99 50.4 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052470.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052470.D (-1812) (-)

7.67

600000

500000

400000

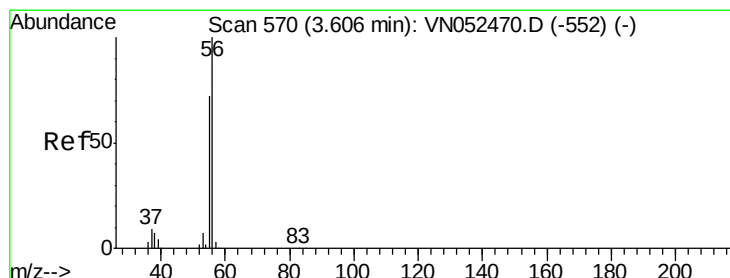
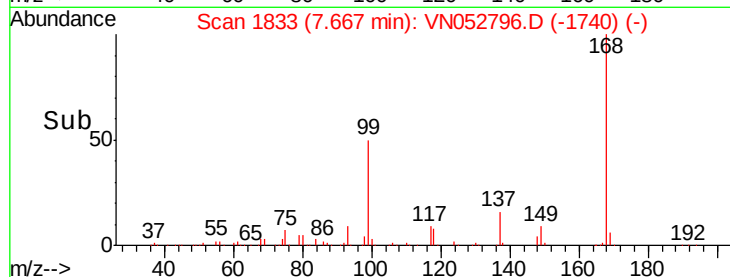
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.232 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052796.D

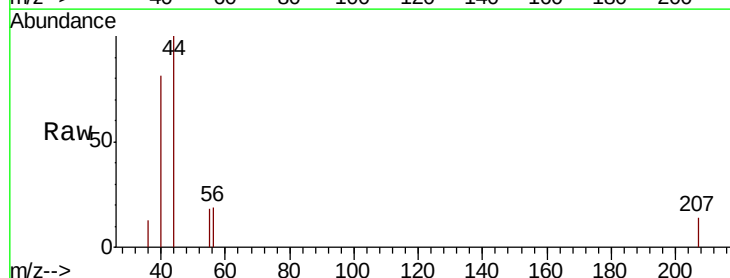
Acq: 11 Dec 2018 12:35

Tgt Ion: 56 Resp: 274

Ion Ratio Lower Upper

56 100

55 43.1 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VN052470.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052470.D (-552) (-)

3.62

250

200

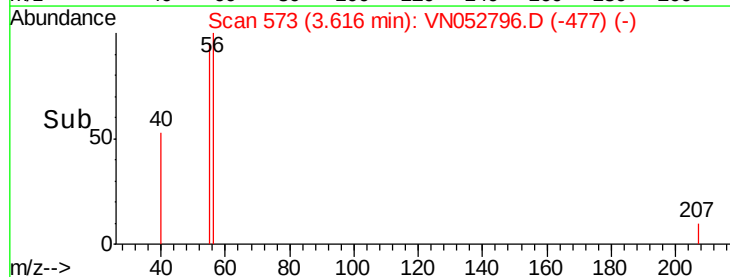
150

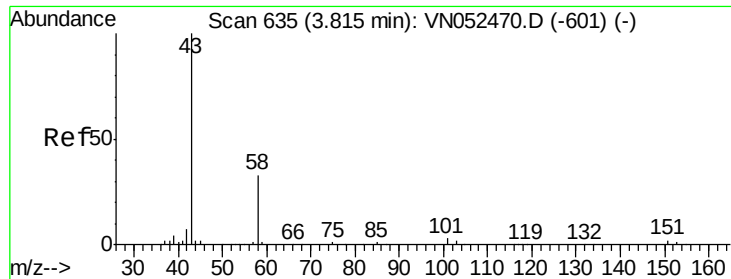
100

50

0

Time-->





#16

Acetone

Concen: 2.949 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

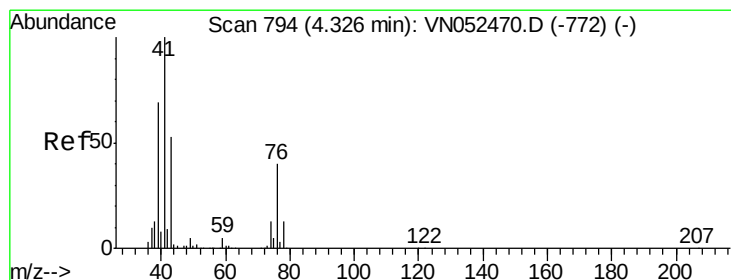
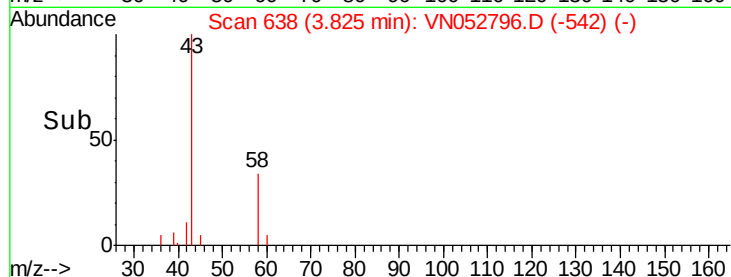
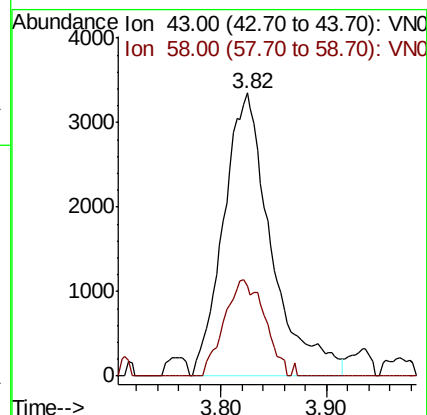
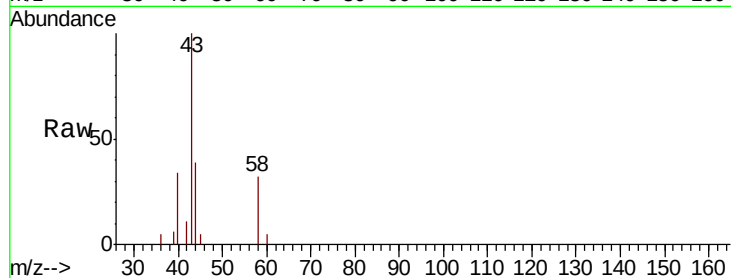
PB115504ZHE#01

Tot Ion: 43 Resp: 10536

Ion Ratio Lower Upper

43 100

58 31.8 26.0 39.0



#18

Methyl Acetate

Concen: 0.397 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052796.D

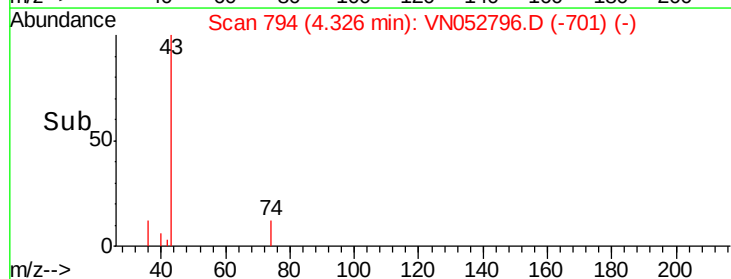
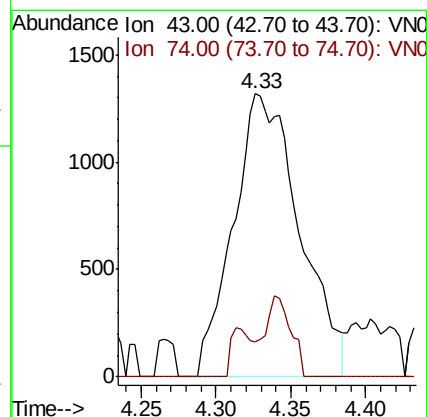
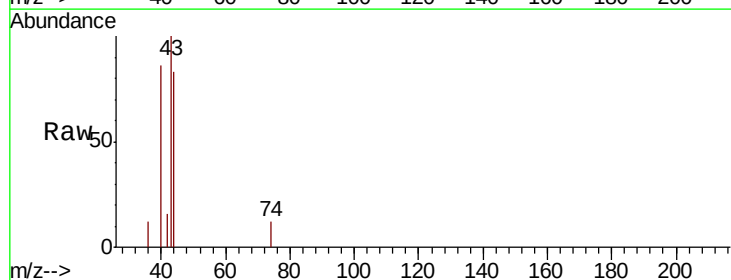
Acq: 11 Dec 2018 12:35

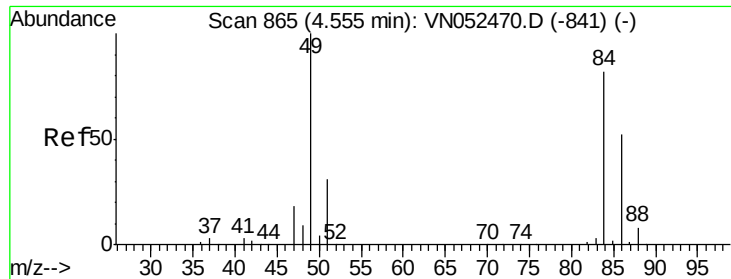
Tgt Ion: 43 Resp: 4066

Ion Ratio Lower Upper

43 100

74 10.8 18.6 27.8#

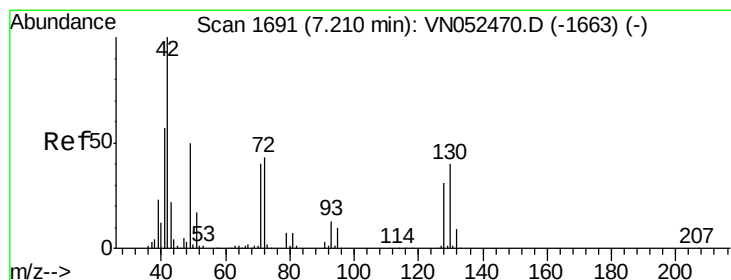
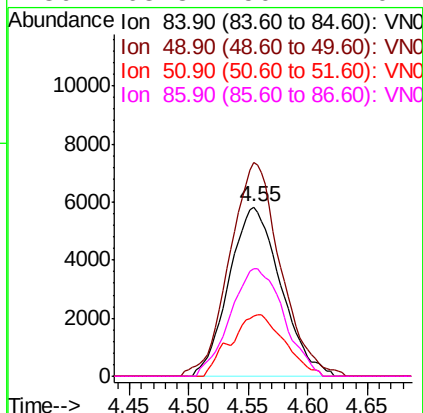
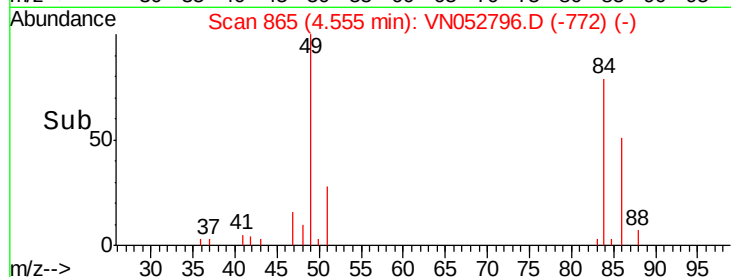
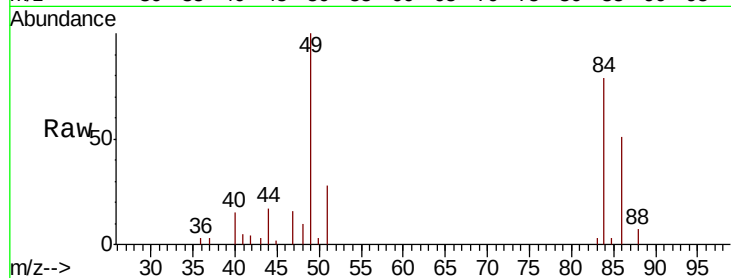




#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

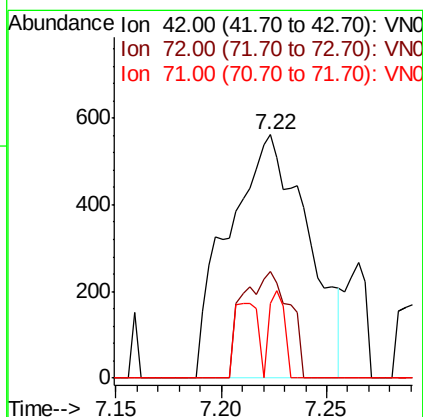
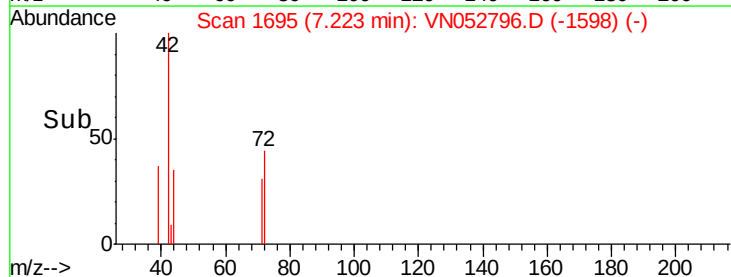
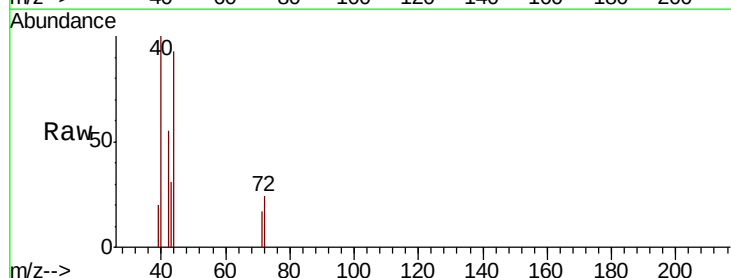
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#01

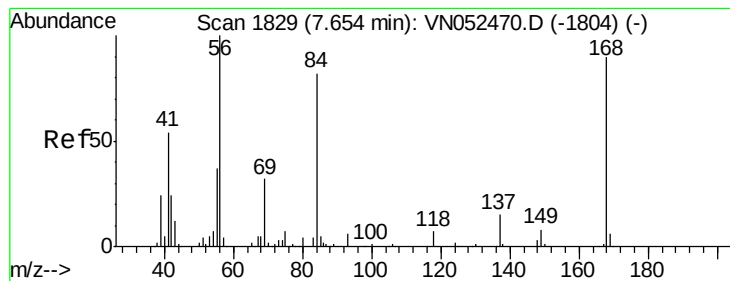
Tot Ion: 84 Resp: 17544
Ion Ratio Lower Upper
84 100
49 123.1 98.0 147.0
51 35.4 30.1 45.1
86 63.8 50.7 76.1



#29
Tetrahydrofuran
Concen: 0.448 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

Tgt Ion: 42 Resp: 1464
Ion Ratio Lower Upper
42 100
72 25.8 33.3 49.9#
71 7.1 32.0 48.0#





#31

Cyclohexane

Concen: 0.565 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#01

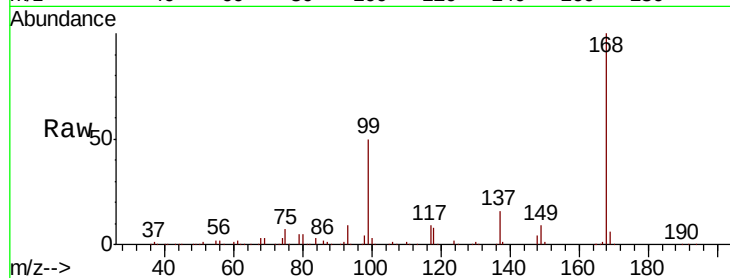
Tot Ion: 56 Resp: 21588

Ion Ratio Lower Upper

56 100

69 191.1 25.8 38.6#

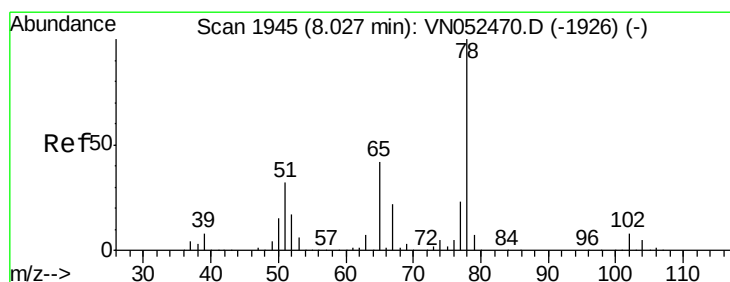
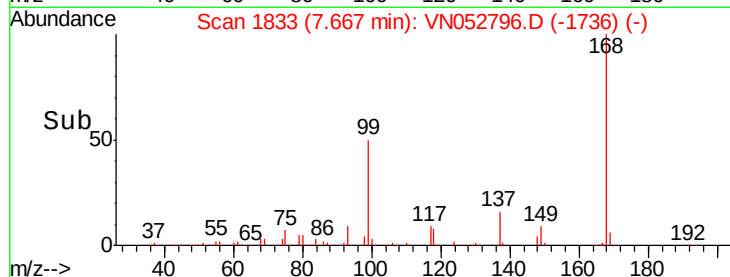
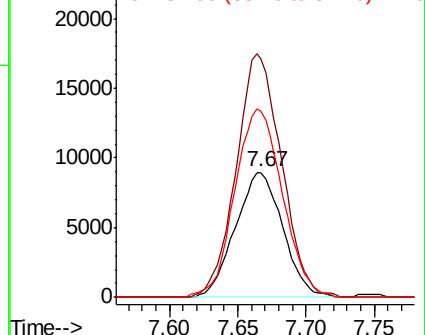
84 148.6 65.3 97.9#



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# 1945

Delta R.T. -0.00 min

Lab File: VN052796.D

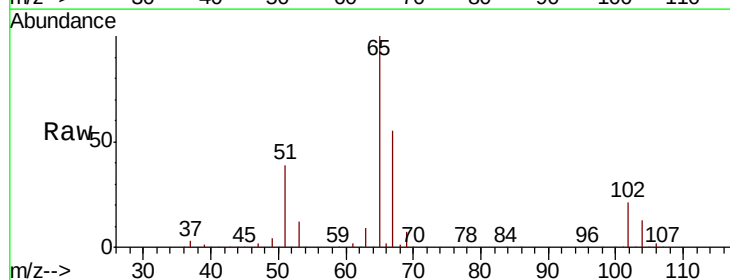
Acq: 11 Dec 2018 12:35

Tgt Ion: 65 Resp: 644234

Ion Ratio Lower Upper

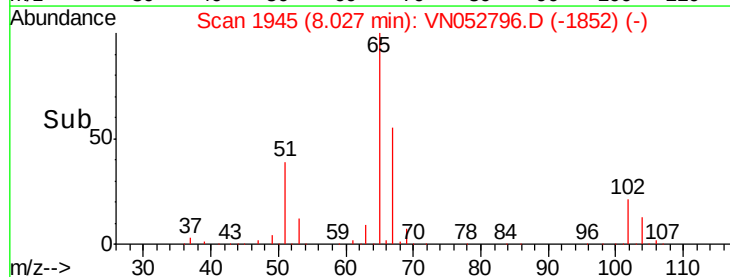
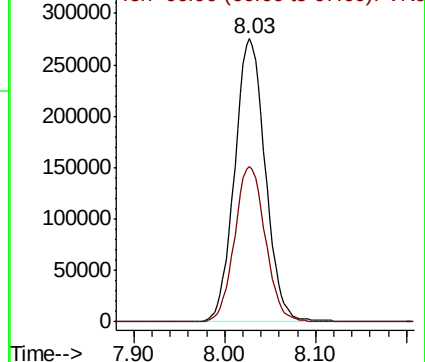
65 100

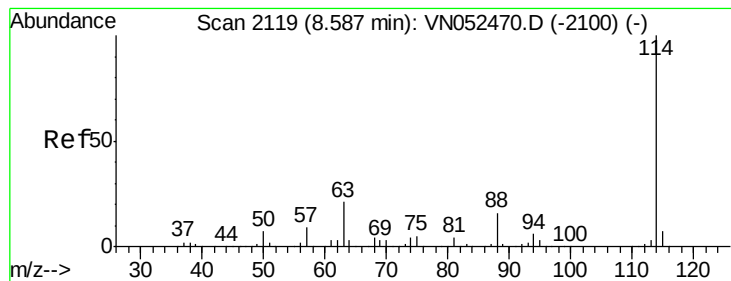
67 55.1 0.0 109.8



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: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#01

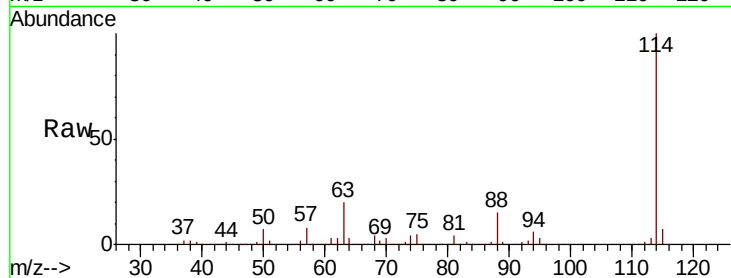
Tot Ion:114 Resp: 1939313

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.8

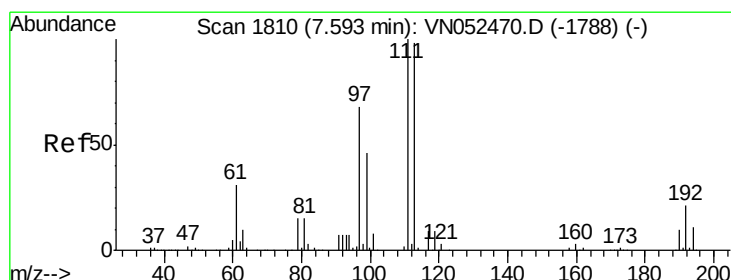
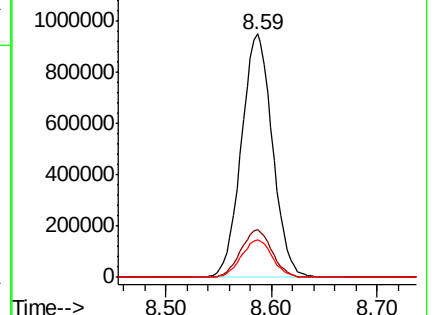
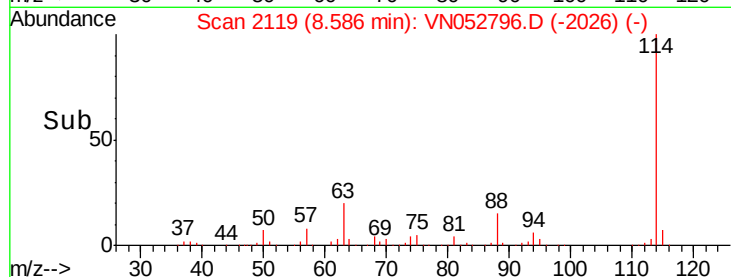
88 15.2 0.0 31.6



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# 1809

Delta R.T. -0.00 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

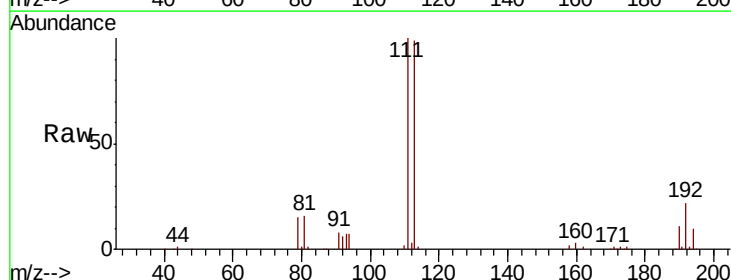
Tgt Ion:113 Resp: 543091

Ion Ratio Lower Upper

113 100

111 101.6 82.0 123.0

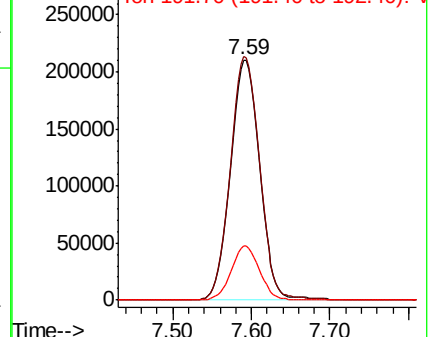
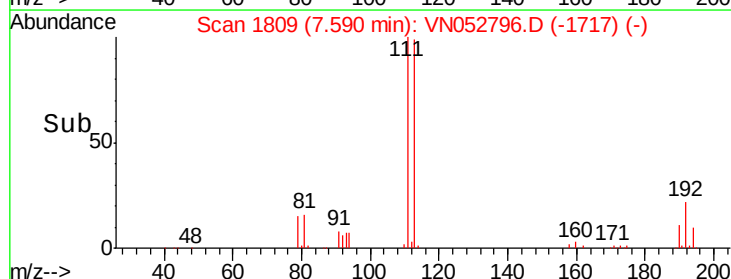
192 21.8 17.0 25.6

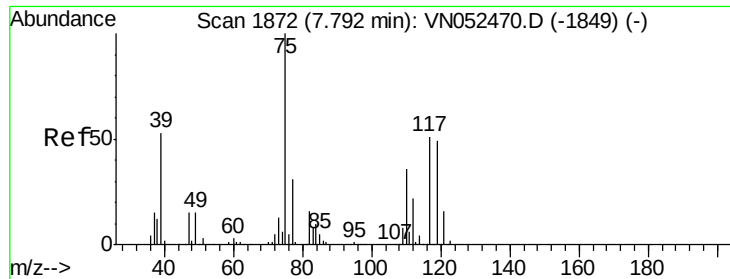


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

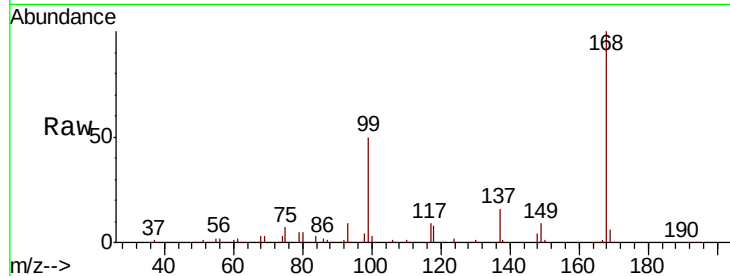




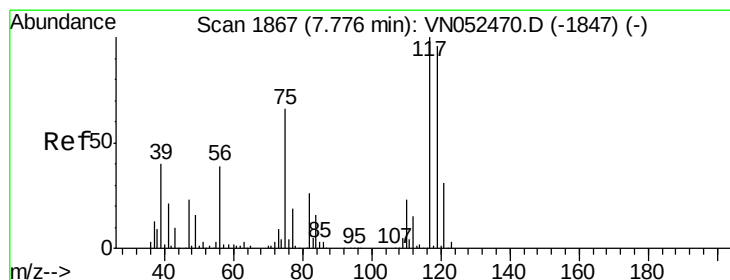
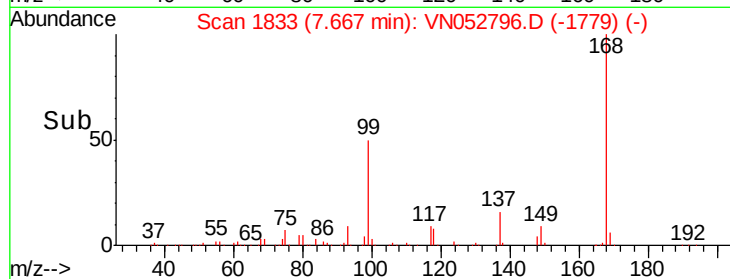
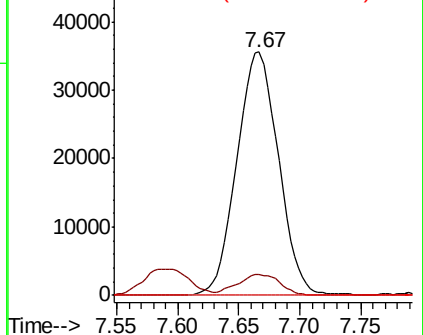
#36
 1,1-Dichloropropene
 Concen: 4.589 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052796.D
 Acq: 11 Dec 2018 12:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#01

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.5	52.6#
77	0.0	24.5	36.7#

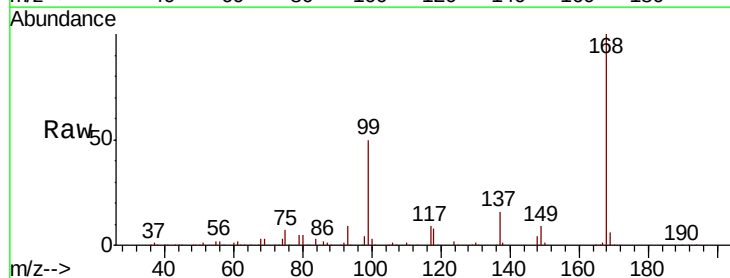


Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052470.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052470.D (-1849) (-)

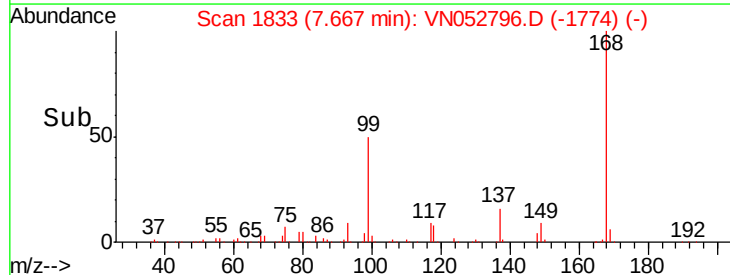
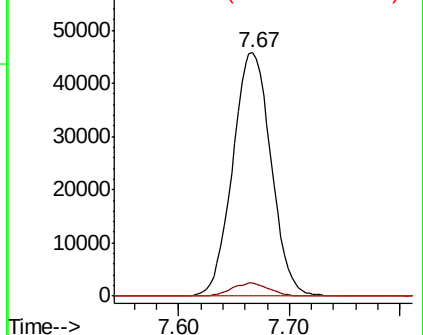


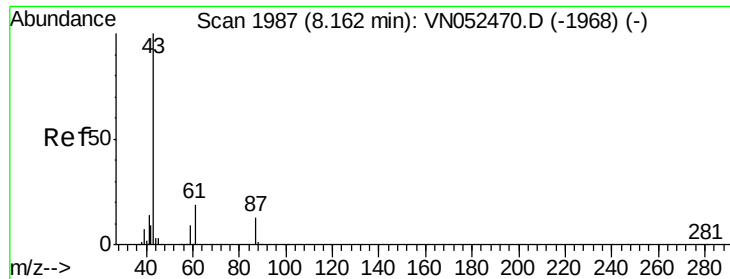
#38
 Carbon Tetrachloride
 Concen: 6.650 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052796.D
 Acq: 11 Dec 2018 12:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.8	115.2#
121	0.0	24.9	37.3#



Abundance Ion 116.80 (116.50 to 117.50): VN052470.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN052470.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN052470.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 3.237 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#01

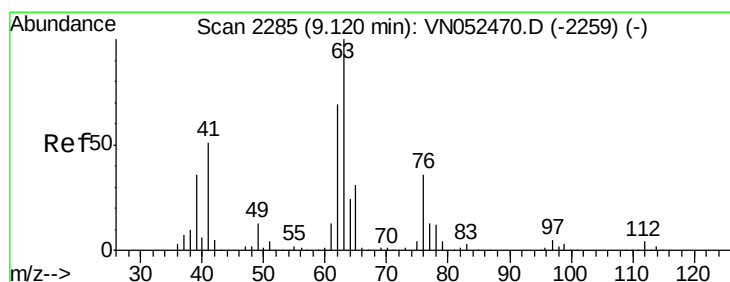
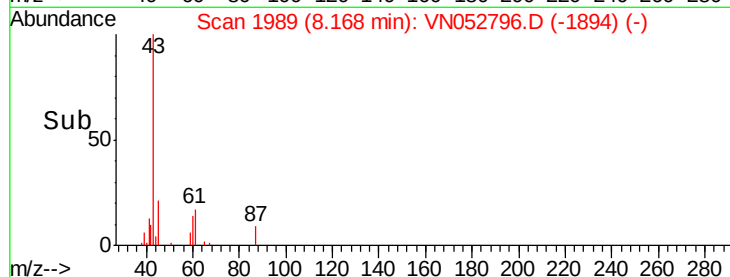
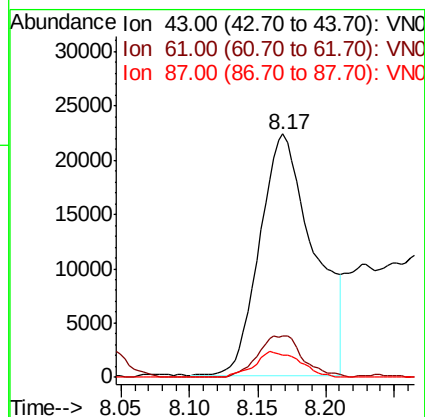
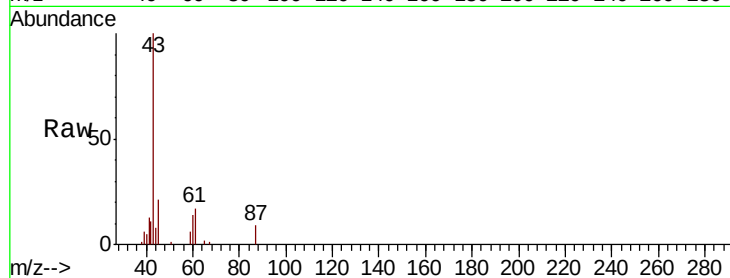
Tot Ion: 43 Resp: 61233

Ion Ratio Lower Upper

43 100

61 14.3 24.1 36.1#

87 9.0 10.6 15.8#



#45

1,2-Dichloropropane

Concen: 0.222 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052796.D

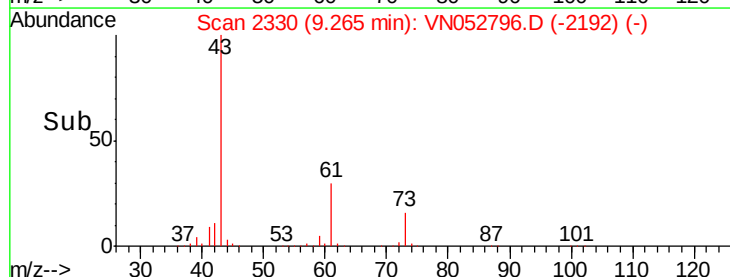
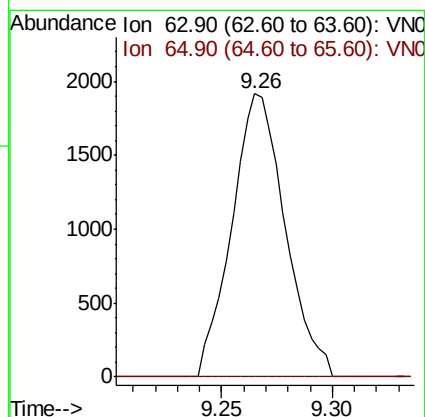
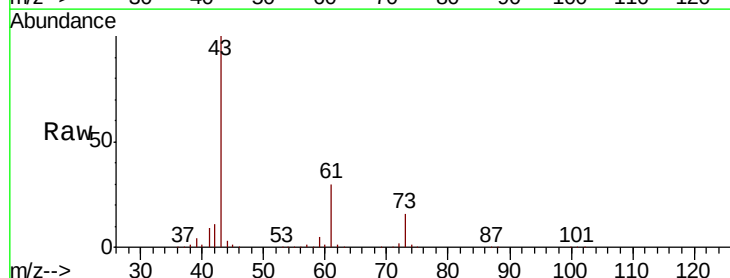
Acq: 11 Dec 2018 12:35

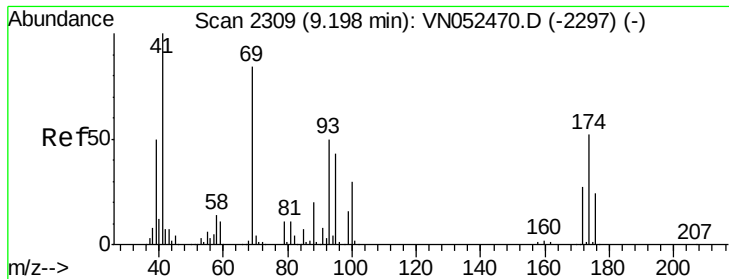
Tgt Ion: 63 Resp: 3214

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

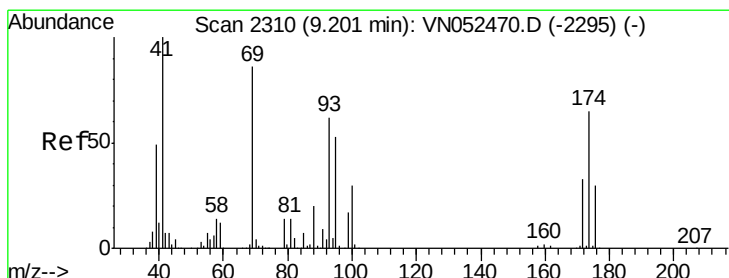
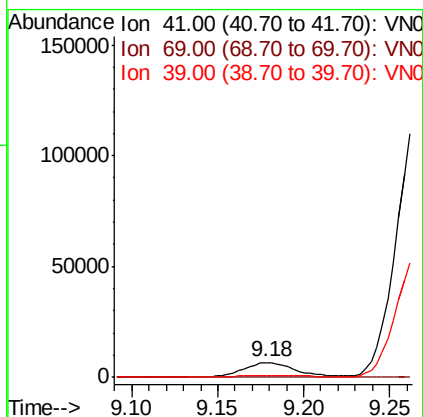
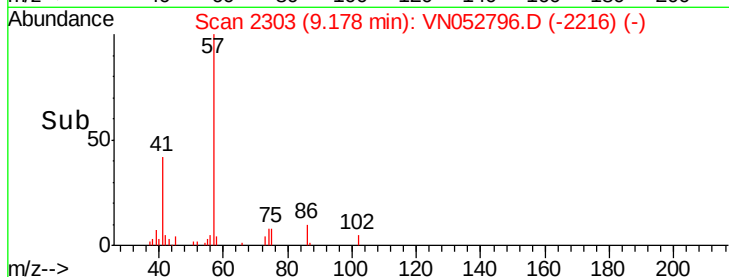
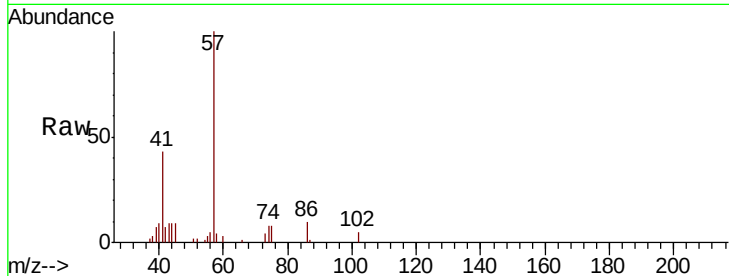




#48
Methvl methacrylate
Concen: 1.360 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

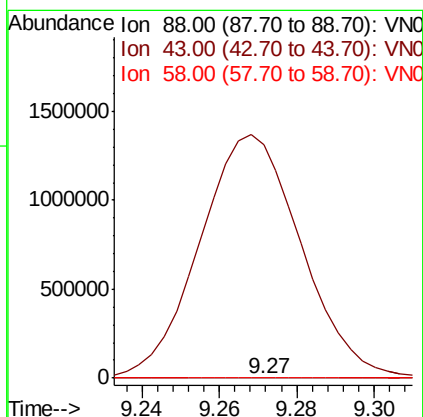
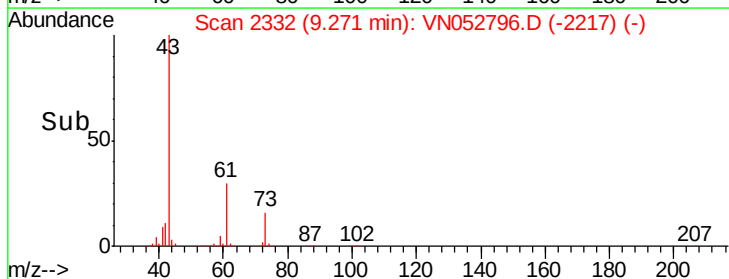
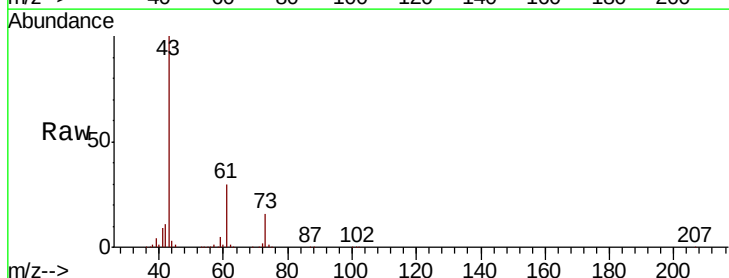
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#01

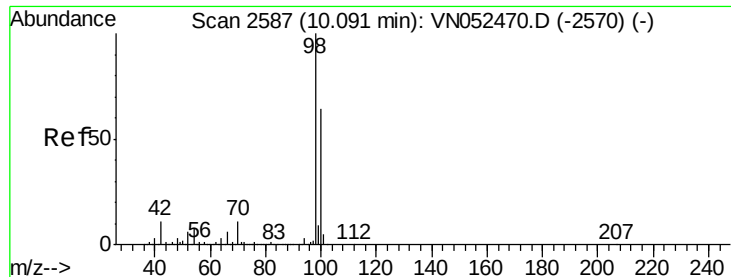
Tot Ion: 41 Resp: 13414
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 0.0 42.6 64.0#



#49
1,4-Dioxane
Concen: 3.595 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

Tgt Ion: 88 Resp: 368
Ion Ratio Lower Upper
88 100
43 683579.1 26.4 39.6#
58 3019.0 55.4 83.0#





#50

Toluene-d8

Concen: 3.595 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

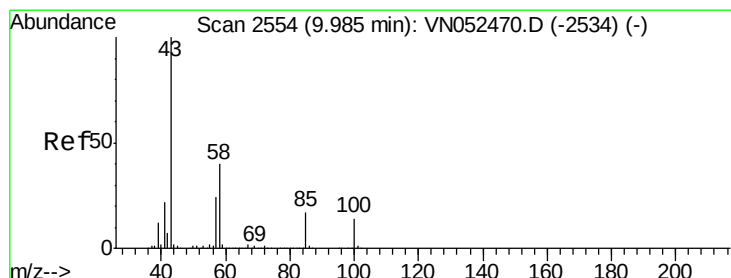
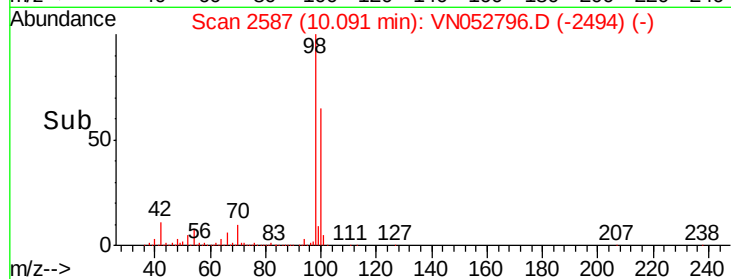
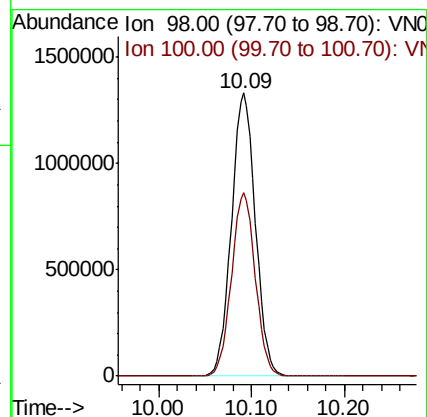
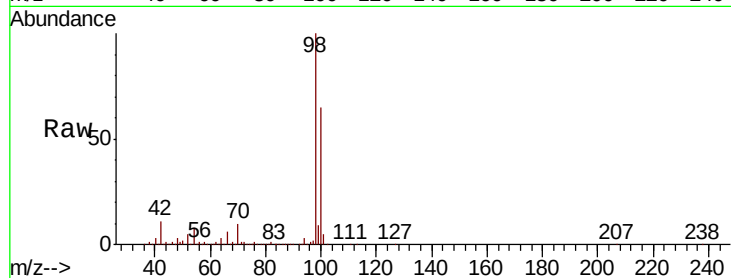
PB115504ZHE#01

Tot Ion: 98 Resp: 2382355

Ion Ratio Lower Upper

98 100

100 64.3 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 1.710 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN052796.D

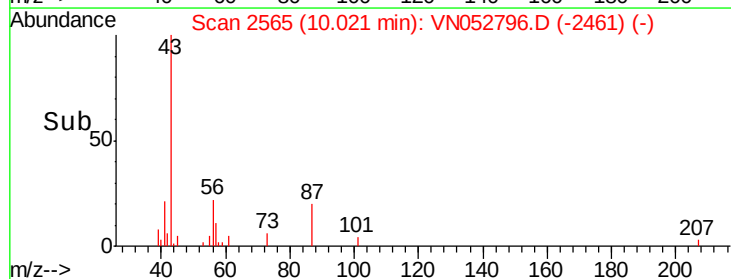
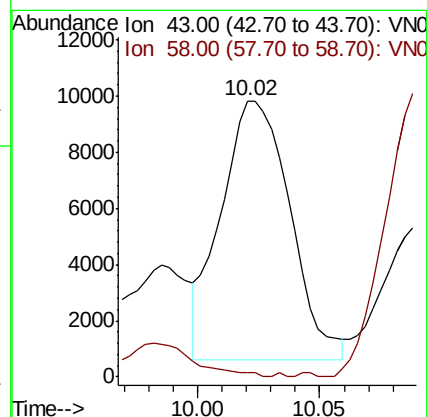
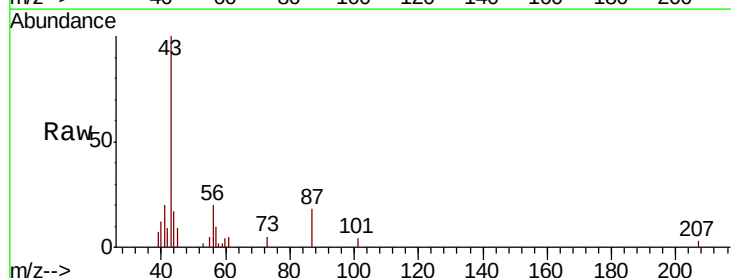
Acq: 11 Dec 2018 12:35

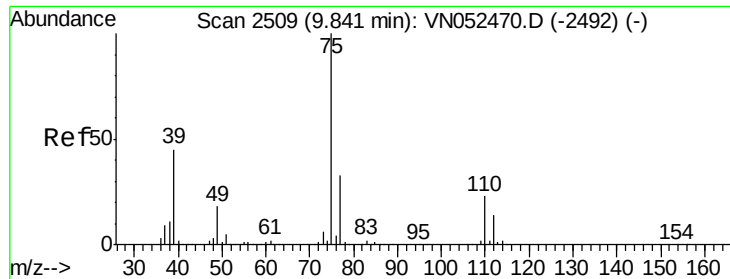
Tgt Ion: 43 Resp: 18143

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#





#54

cis-1,3-Dichloropropene

Concen: 5.868 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#01

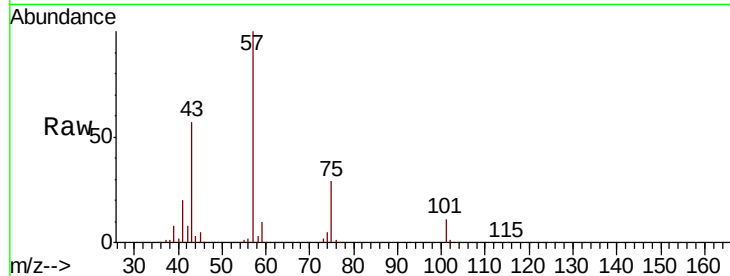
Tot Ion: 75 Resp: 118143

Ion Ratio Lower Upper

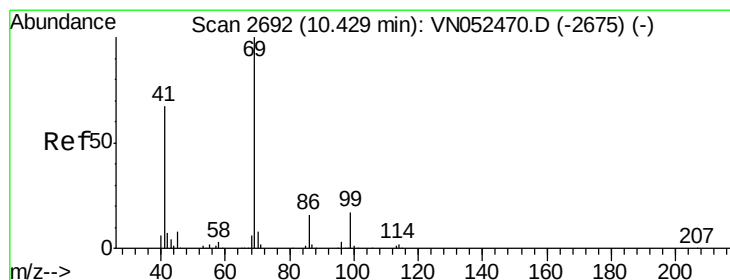
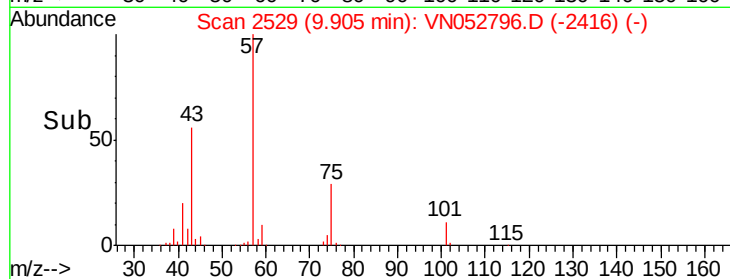
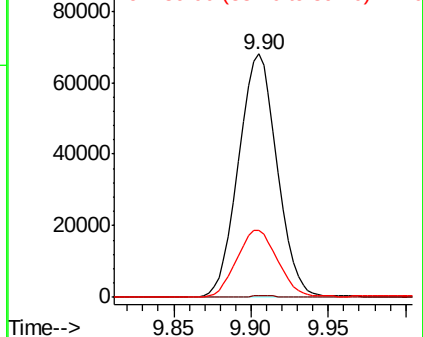
75 100

77 0.5 26.2 39.2#

39 27.6 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 2.789 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

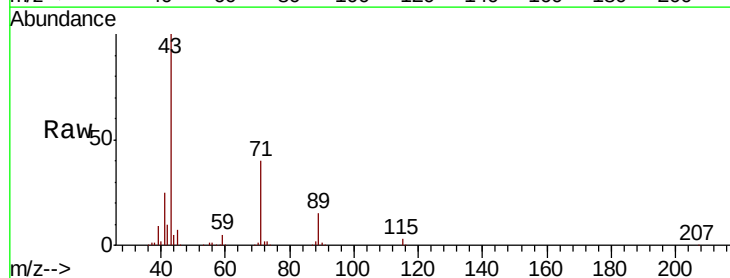
Tgt Ion: 69 Resp: 1607

Ion Ratio Lower Upper

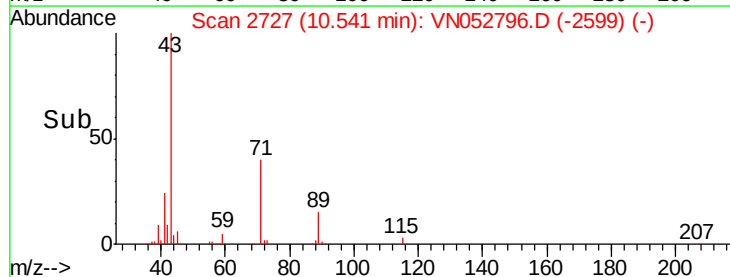
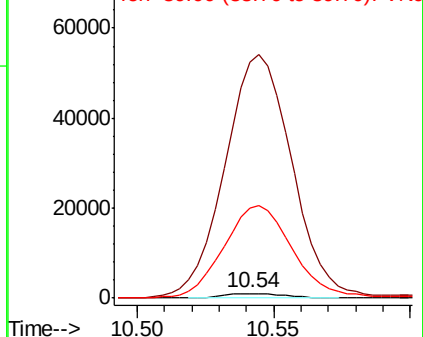
69 100

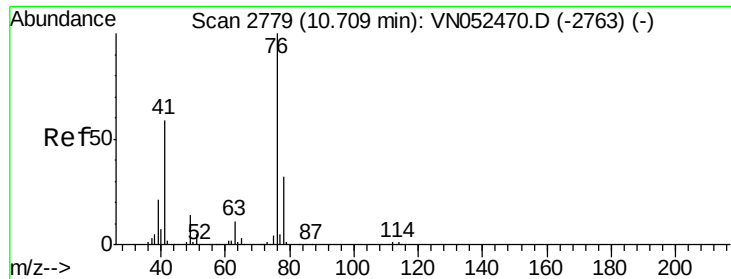
41 5782.5 52.6 79.0#

39 2267.6 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

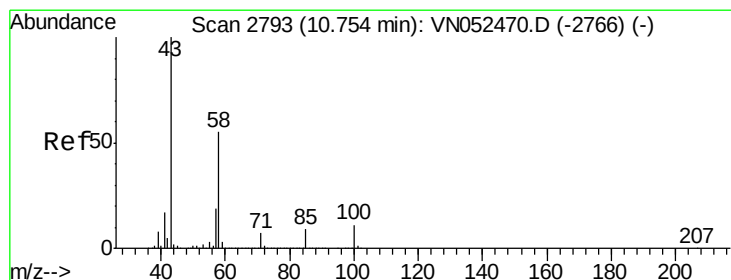
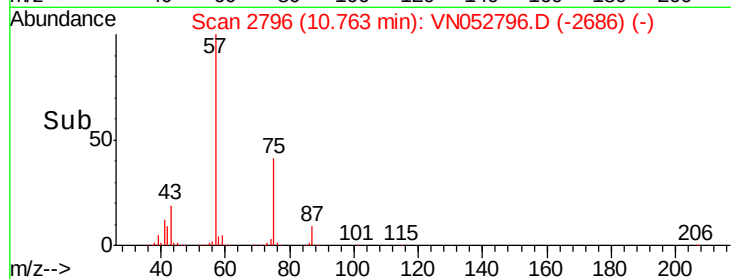
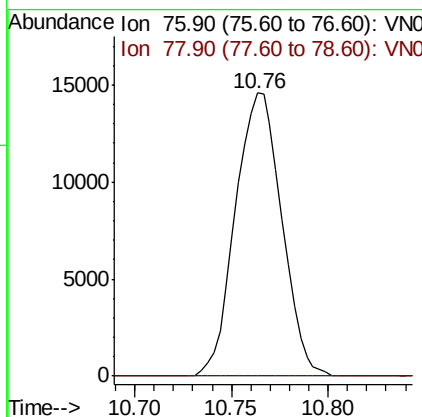
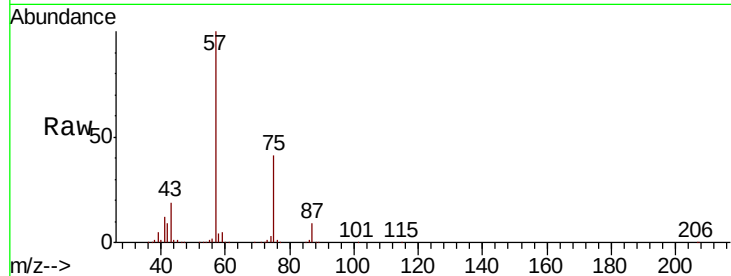




#57
 1,3-Dichloropropane
 Concen: 1.207 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN052796.D
 Acq: 11 Dec 2018 12:35

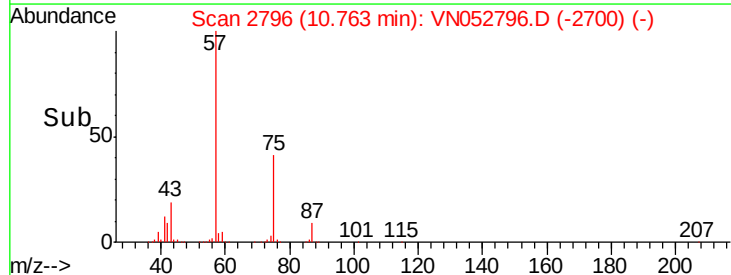
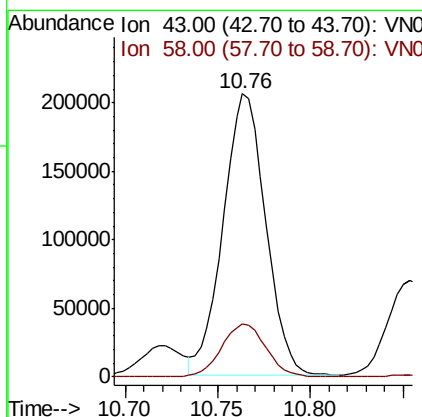
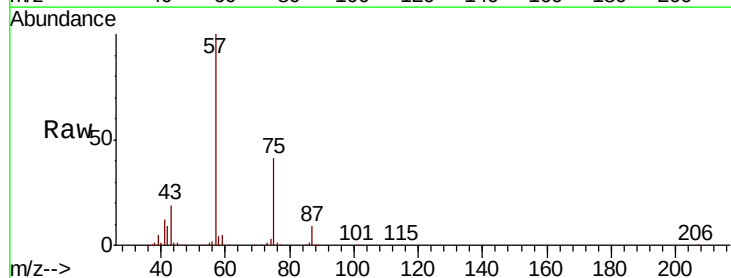
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#01

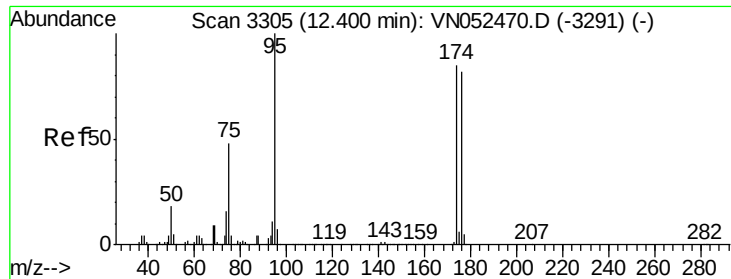
Tot Ion: 76 Resp: 24301
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 46.108 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052796.D
 Acq: 11 Dec 2018 12:35

Tgt Ion: 43 Resp: 328397
 Ion Ratio Lower Upper
 43 100
 58 19.6 27.4 82.0#

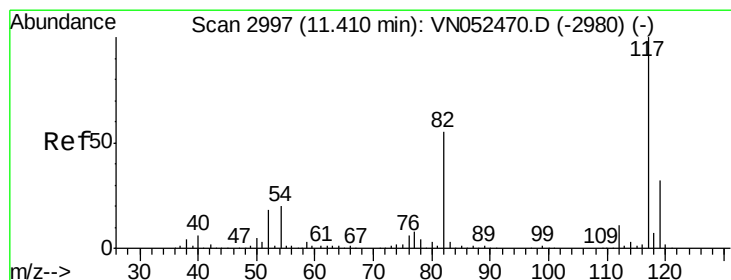
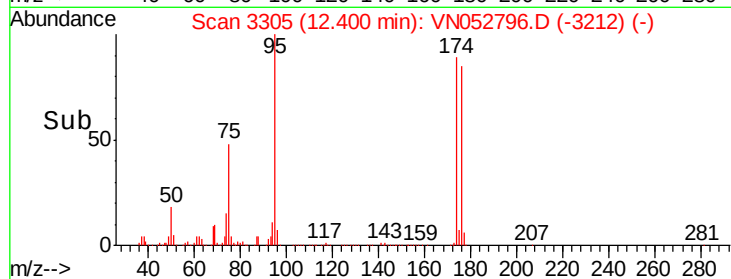
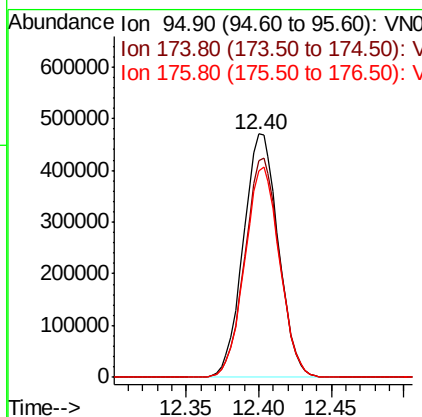
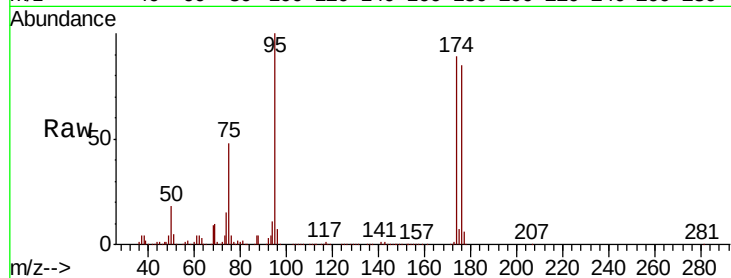




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

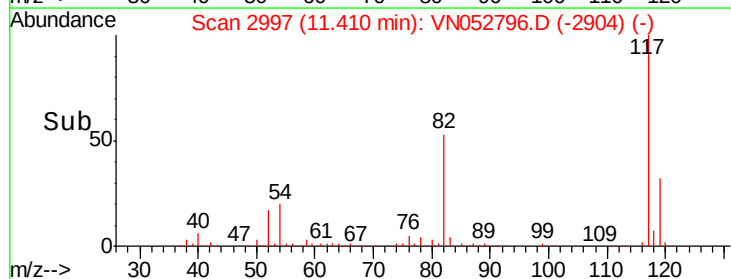
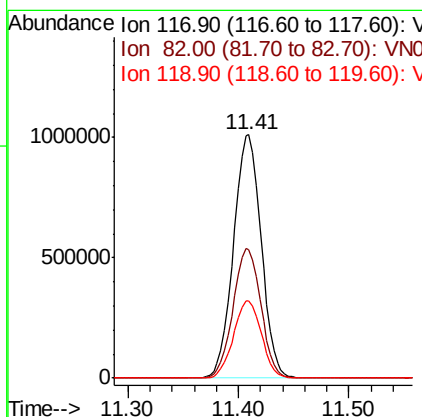
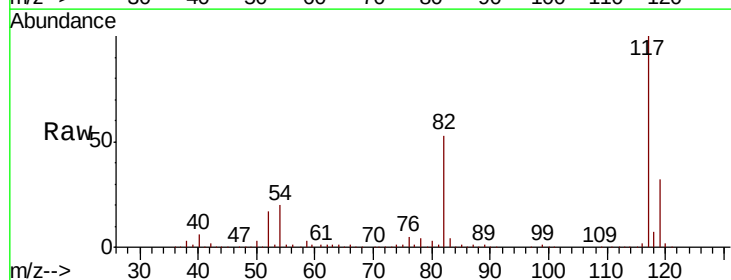
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#01

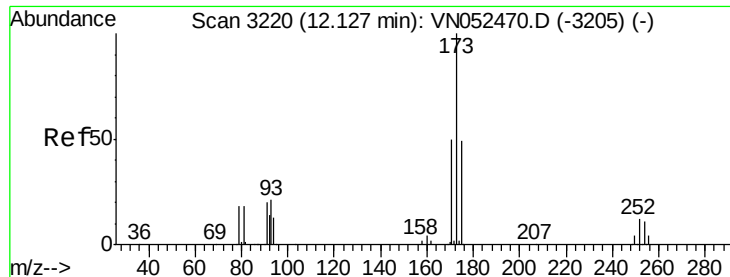
Tot Ion: 95 Resp: 790781
Ion Ratio Lower Upper
95 100
174 89.4 0.0 173.0
176 86.1 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

Tgt Ion: 117 Resp: 1759971
Ion Ratio Lower Upper
117 100
82 52.7 43.6 65.4
119 31.7 25.4 38.2





#71

Bromoform

Concen: 0.579 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#01

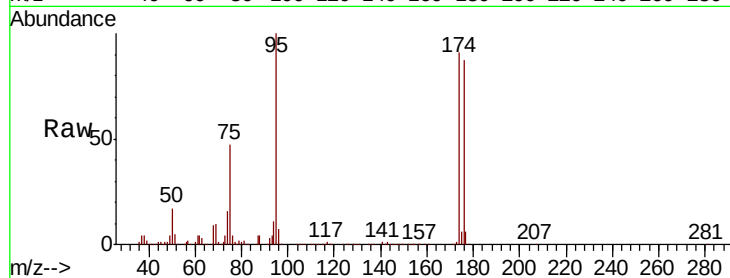
Tot Ion:173 Resp: 4841

Ion Ratio Lower Upper

173 100

175 929.1 24.4 73.2#

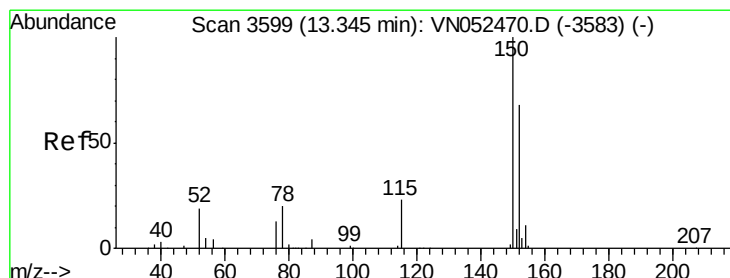
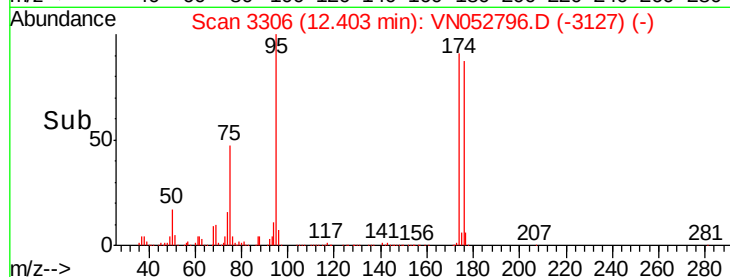
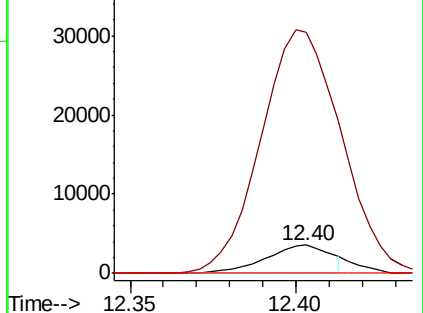
254 0.0 0.1 0.1#



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: VN052796.D

Acq: 11 Dec 2018 12:35

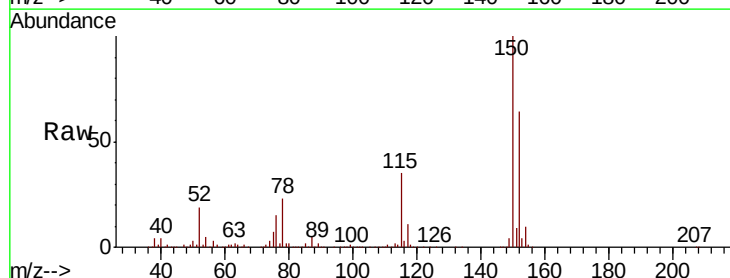
Tgt Ion:152 Resp: 724571

Ion Ratio Lower Upper

152 100

115 55.5 28.4 85.2

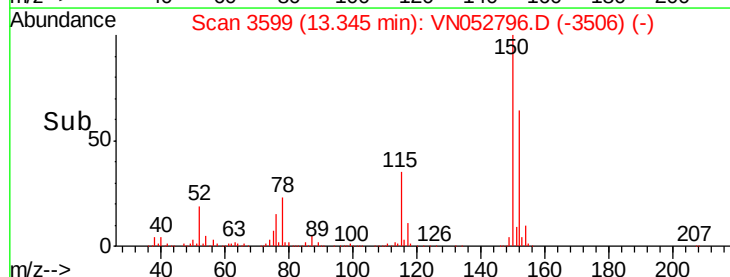
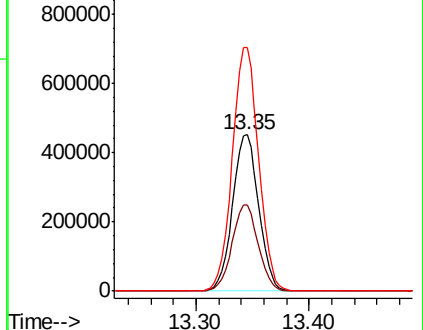
150 156.7 0.0 346.0

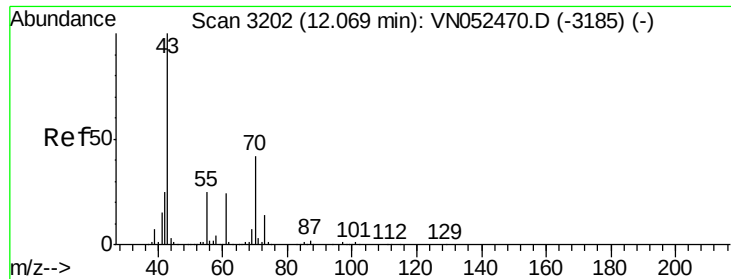


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

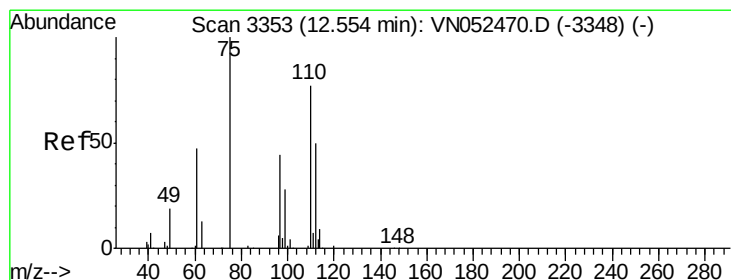
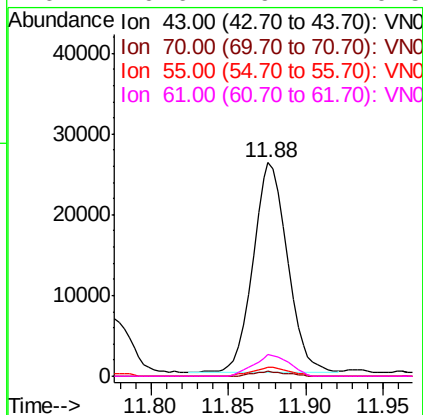
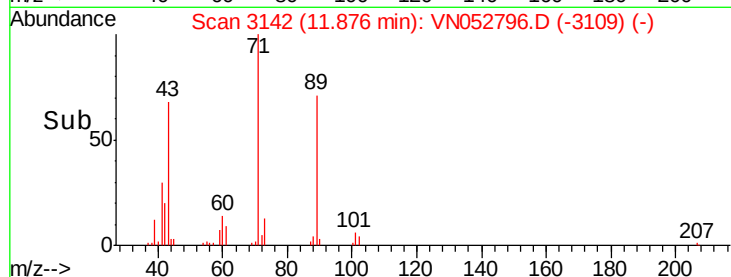
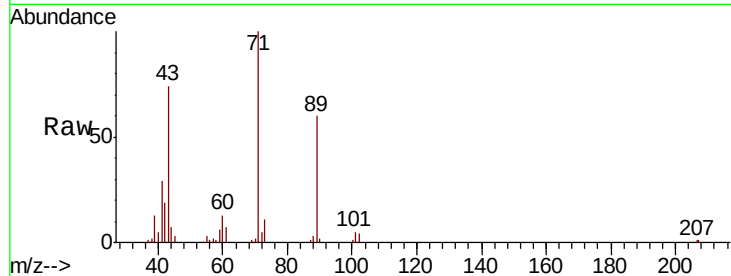




#74
N-amvl acetate
Concen: 2.805 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

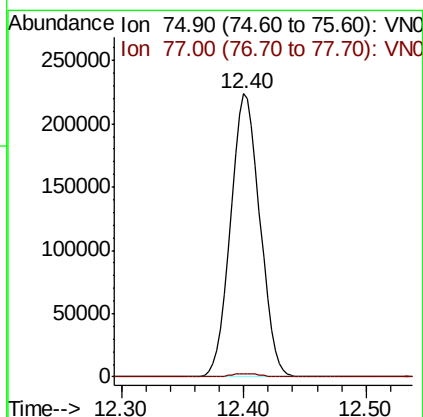
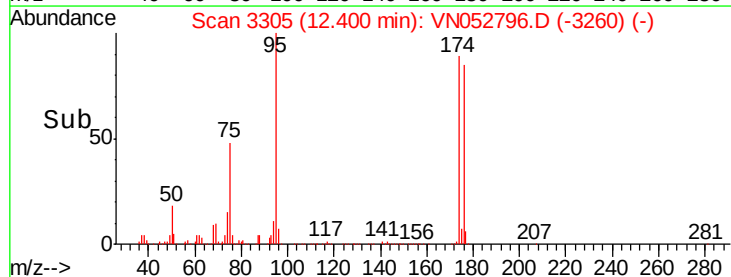
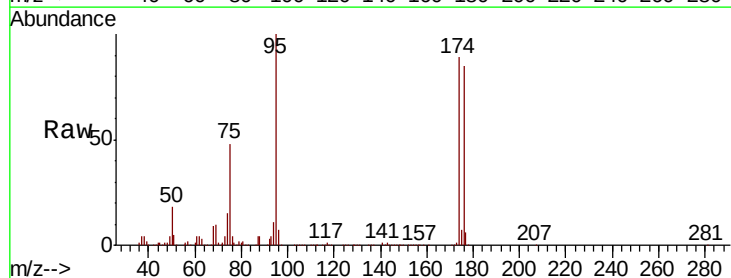
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#01

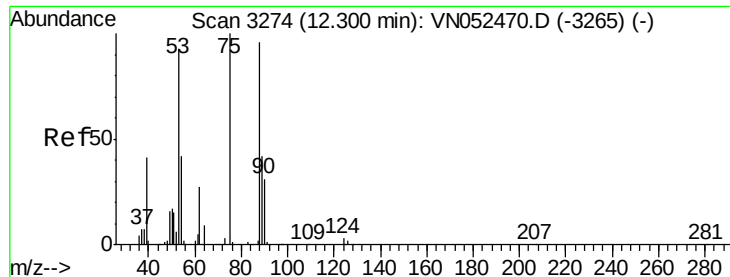
Tot Ion: 43 Resp: 40288
Ion Ratio Lower Upper
43 100
70 2.3 33.8 50.8#
55 4.5 20.0 30.0#
61 10.6 19.7 29.5#



#76
1,2,3-Trichloropropane
Concen: 33.512 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN052796.D
Acq: 11 Dec 2018 12:35

Tgt Ion: 75 Resp: 374435
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 111.913 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#01

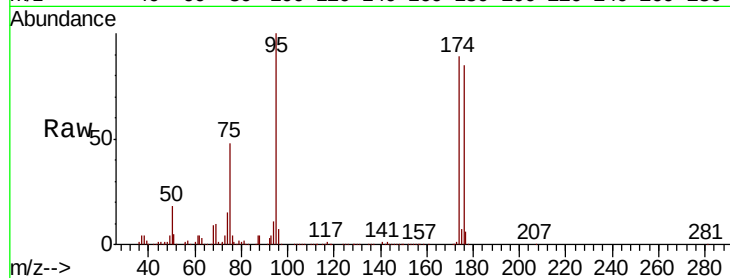
Tot Ion: 75 Resp: 374435

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

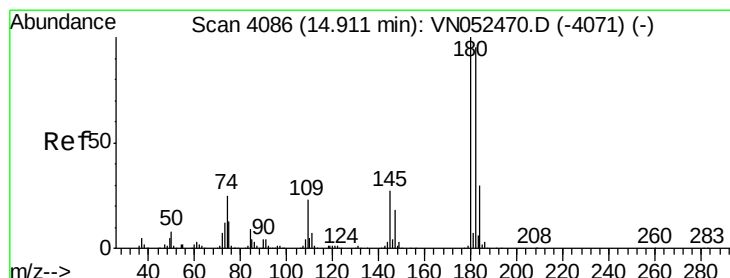
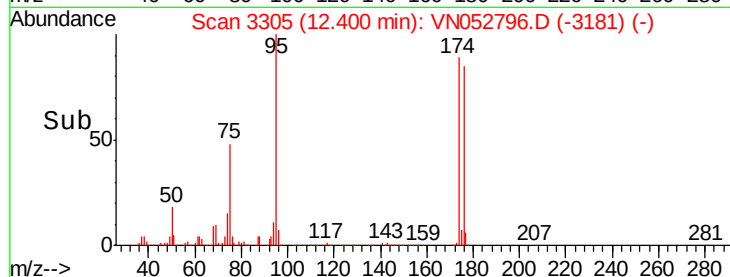
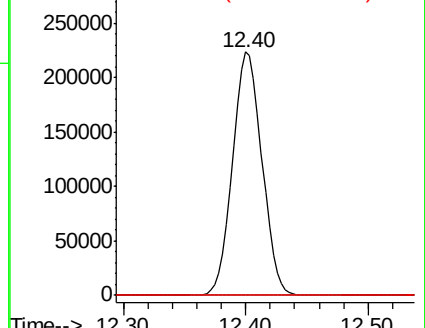
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 2.933 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

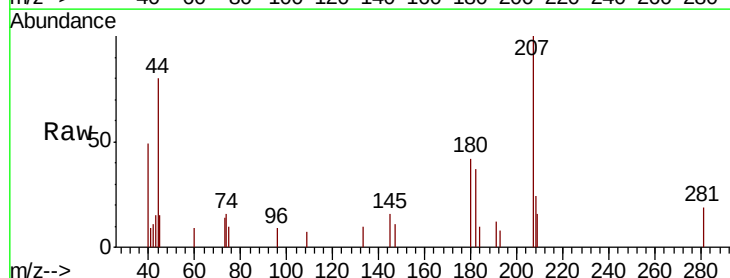
Tgt Ion: 180 Resp: 1410

Ion Ratio Lower Upper

180 100

182 87.8 47.8 143.4

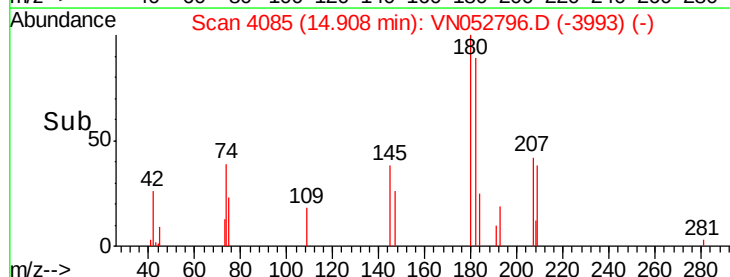
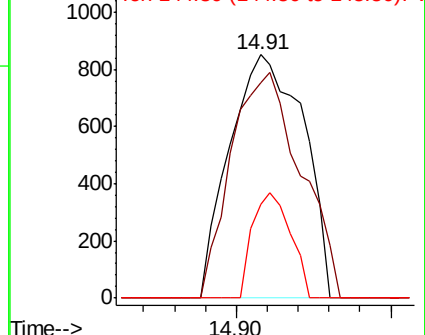
145 22.3 14.1 42.3

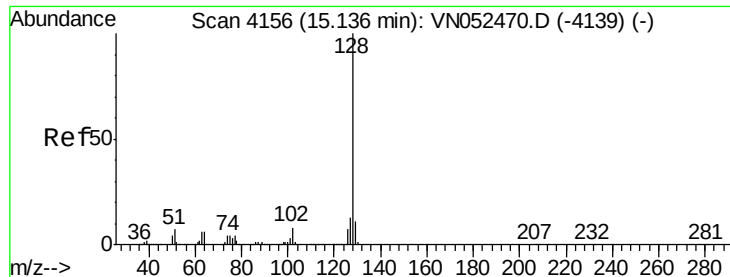


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.563 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.01 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#01

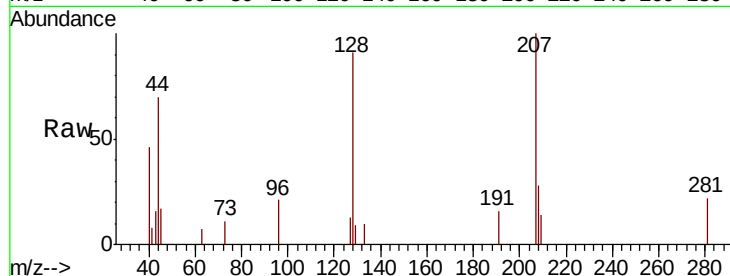
Tot Ion:128 Resp: 3941

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.2

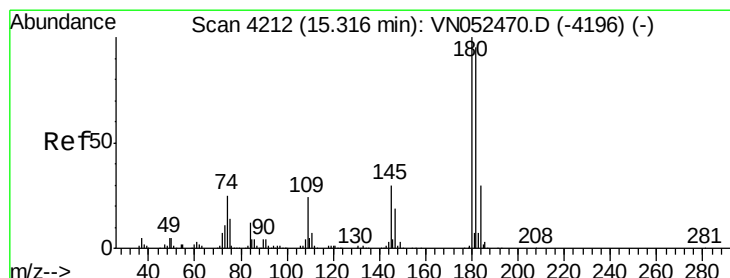
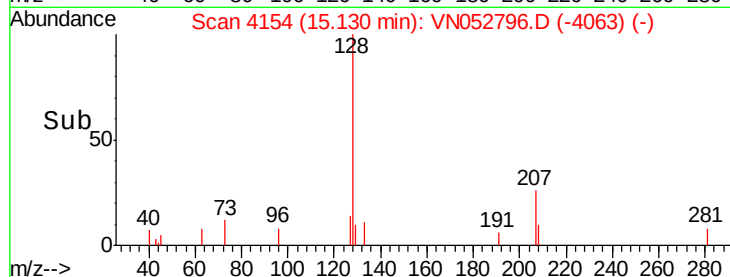
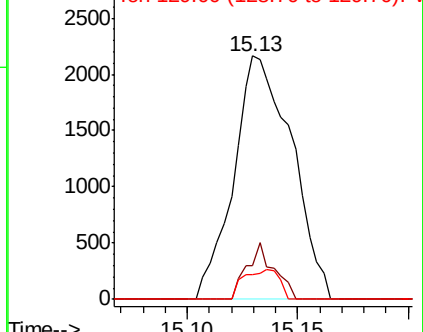
129 7.6 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.828 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.01 min

Lab File: VN052796.D

Acq: 11 Dec 2018 12:35

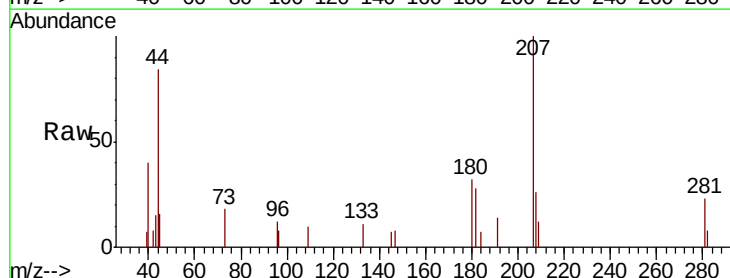
Tgt Ion:180 Resp: 1268

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

145 4.7 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

