

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052782.D
 Acq On : 11 Dec 2018 5:24
 Operator : MD\SY
 Sample : PB115498TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115498TB

Quant Time: Dec 11 06:18:21 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	1223501	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1894516	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1671854	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	655145	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	630317	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
35) Dibromofluoromethane	7.59	113	522877	44.77	ug/l	0.00
Spiked Amount			Recovery	=	89.54%	
50) Toluene-d8	10.09	98	2320075	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.40	95	740686	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	

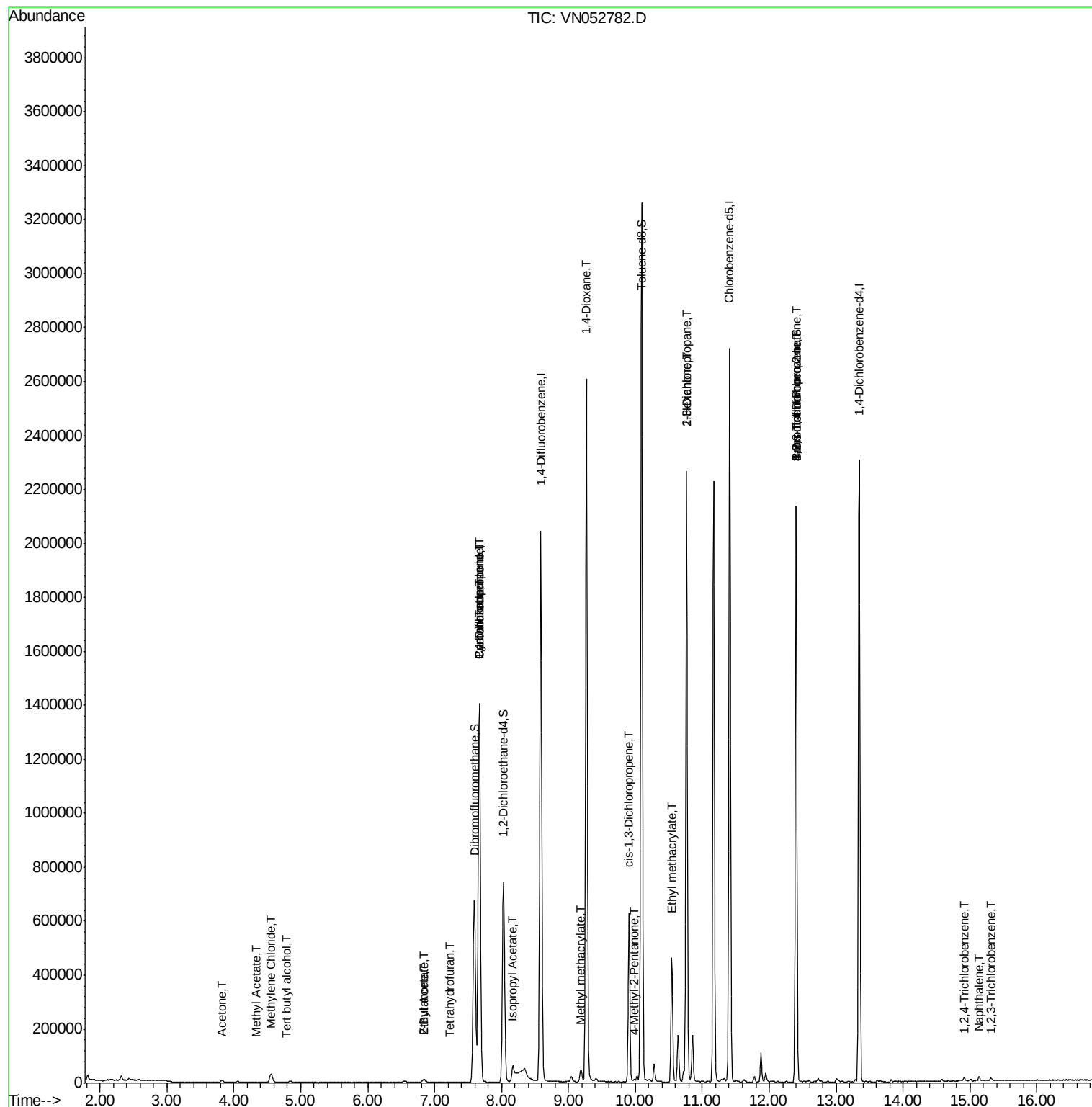
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	213	0.319	ug/l #	73
16) Acetone	3.82	43	14070	4.004	ug/l	97
18) Methyl Acetate	4.34	43	5410	0.537	ug/l #	68
20) Methylene Chloride	4.56	84	24935	1.813	ug/l	93
25) 2-Butanone	6.85	43	13413	2.693	ug/l	98
29) Tetrahydrofuran	7.22	42	1538	0.479	ug/l #	57
31) Cyclohexane	7.67	56	20576	0.536	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	84020	4.696	ug/l #	49
37) Ethyl Acetate	6.85	43	13413	1.228	ug/l #	73
38) Carbon Tetrachloride	7.67	117	108171	6.679	ug/l #	16
43) Isopropyl Acetate	8.17	43	79658	4.311	ug/l #	77
48) Methyl methacrylate	9.18	41	16246	1.686	ug/l #	13
49) 1,4-Dioxane	9.26	88	410	4.100	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6922	0.668	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	116877	5.942	ug/l #	61
56) Ethyl methacrylate	10.54	69	1337	2.775	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	22383	1.138	ug/l #	43
59) 2-Hexanone	10.76	43	330159	47.451	ug/l #	52
71) Bromoform	12.40	173	4713	0.594	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	347995	34.446	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	347995	115.033	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	4118	3.164	ug/l	87
95) Naphthalene	15.13	128	14944	3.993	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.31	180	4902	3.160	ug/l	98

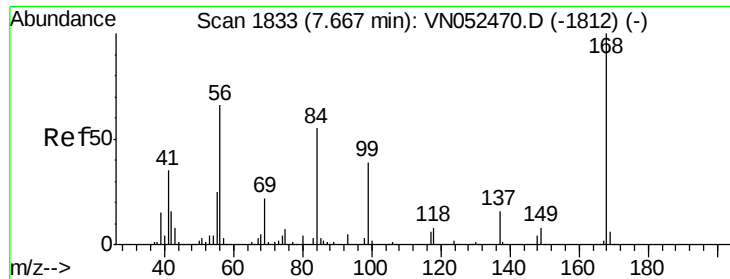
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 11 06:18:21 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
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: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleId :

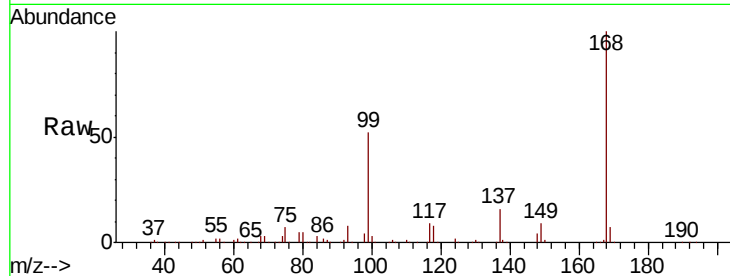
PB115498TB

Tot Ion:168 Resp: 1223501

Ion Ratio Lower Upper

168 100

99 51.6 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052782.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052782.D (-1740) (-)

7.67

600000

500000

400000

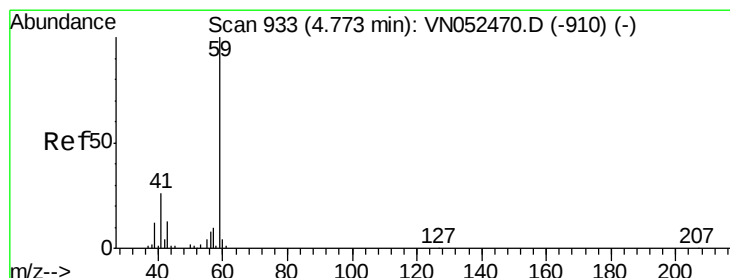
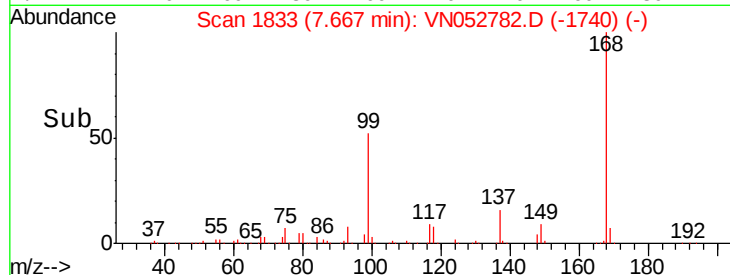
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.319 ug/l

RT: 4.77 min Scan# 933

Delta R.T. 0.00 min

Lab File: VN052782.D

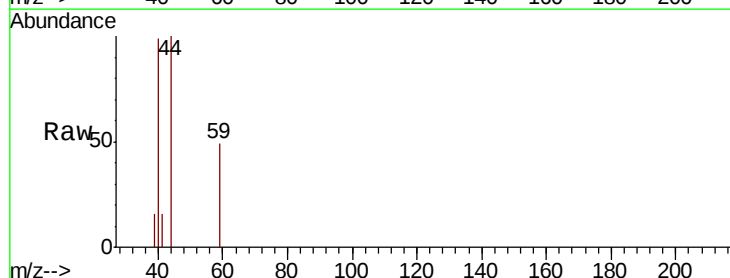
Acq: 11 Dec 2018 5:24

Tgt Ion: 59 Resp: 213

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN052782.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN052782.D (-840) (-)

4.77

600

500

400

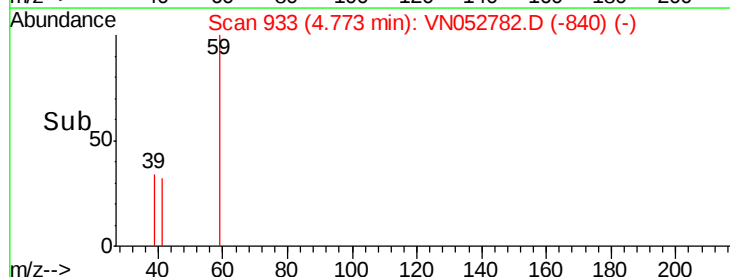
300

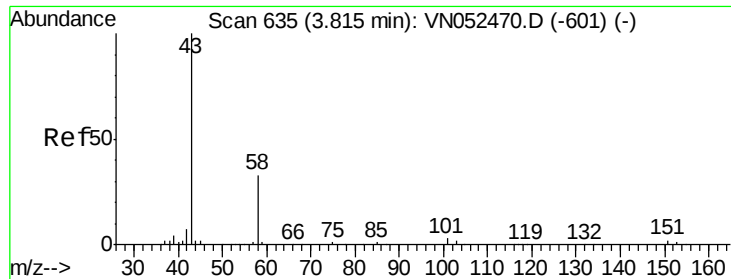
200

100

0

Time-->





#16

Acetone

Concen: 4.004 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampled :

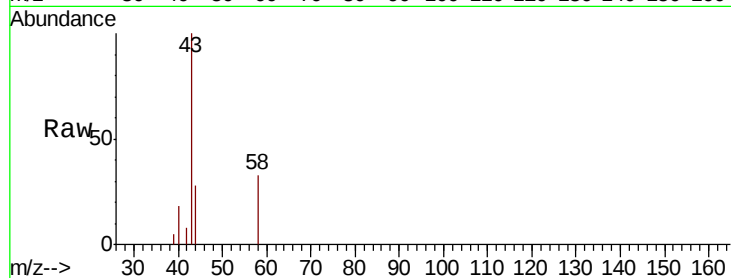
PB115498TB

Tot Ion: 43 Resp: 14070

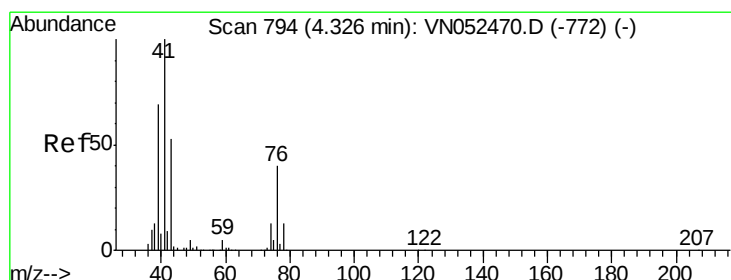
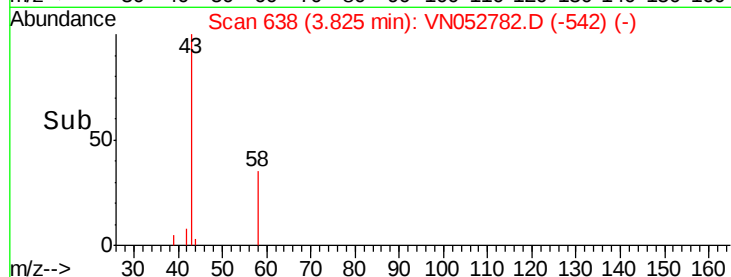
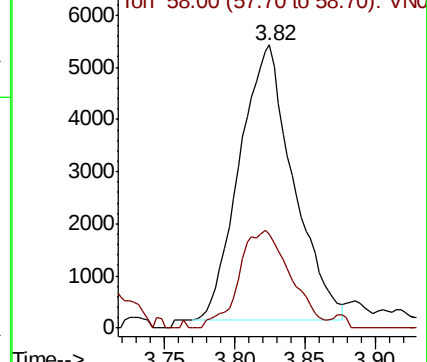
Ion Ratio Lower Upper

43 100

58 34.3 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-601) (-)



#18

Methyl Acetate

Concen: 0.537 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN052782.D

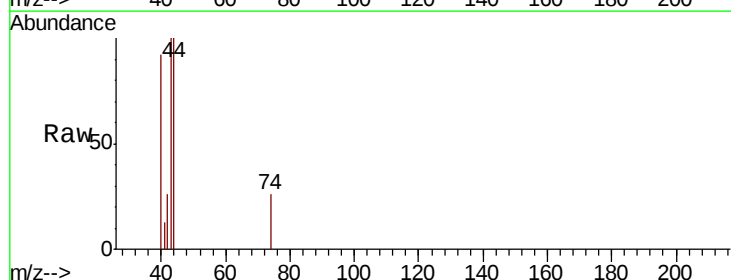
Acq: 11 Dec 2018 5:24

Tgt Ion: 43 Resp: 5410

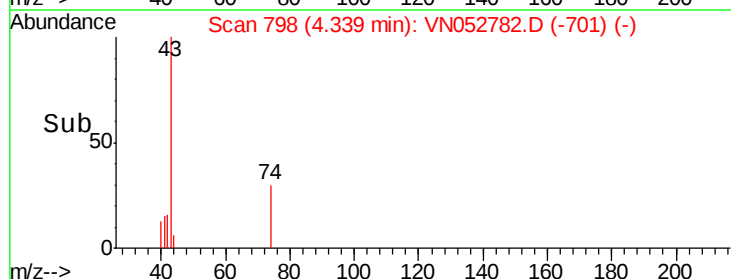
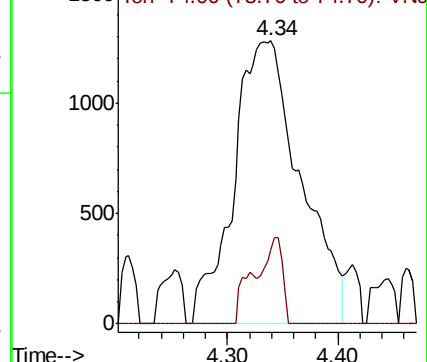
Ion Ratio Lower Upper

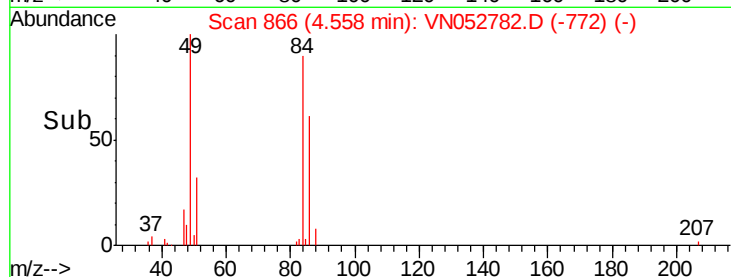
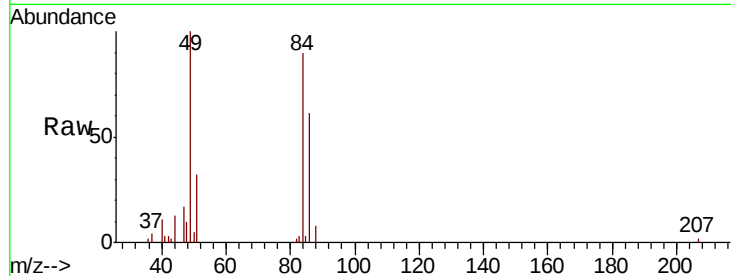
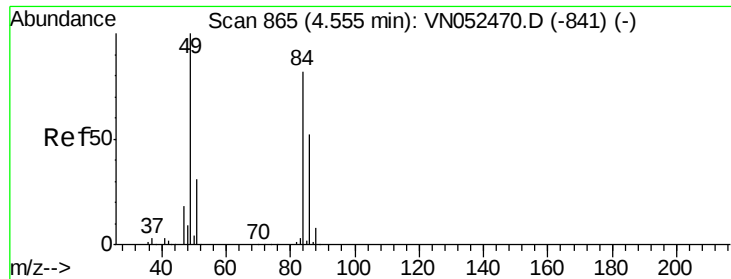
43 100

74 7.5 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-772) (-)

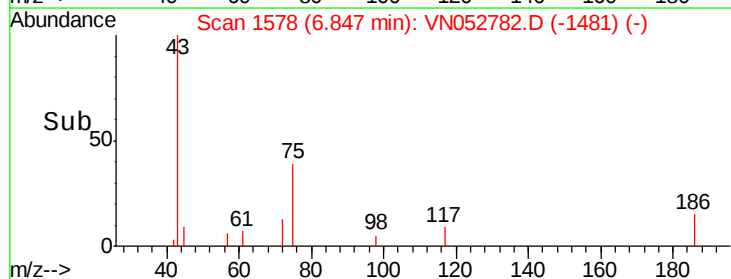
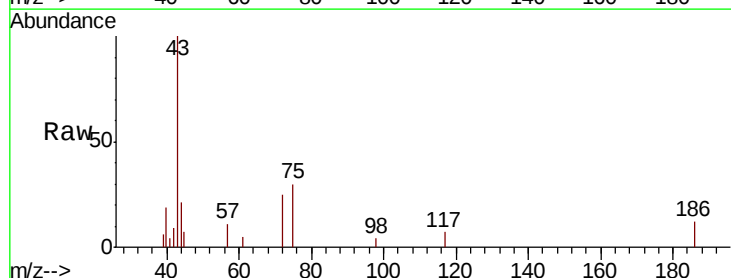
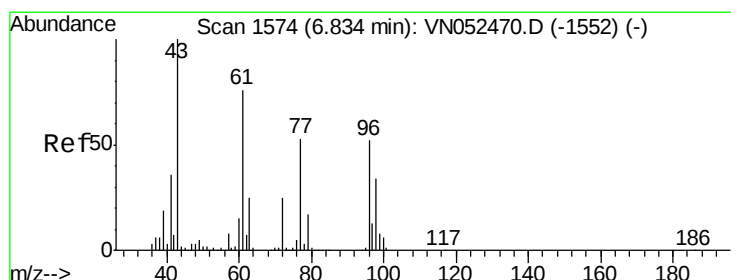
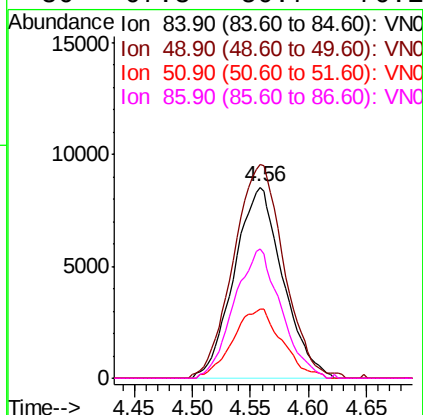




#20
Methylene Chloride
Concen: 1.813 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052782.D
Acq: 11 Dec 2018 5:24

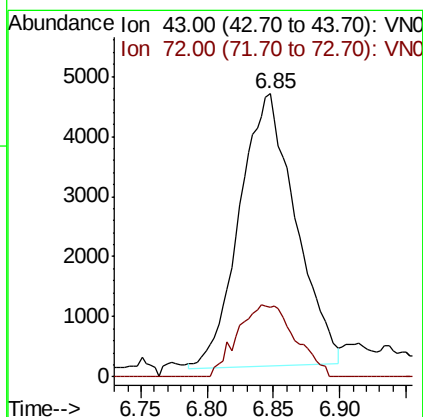
Instrument :
MSVOA_N
ClientSampleId :
PB115498TB

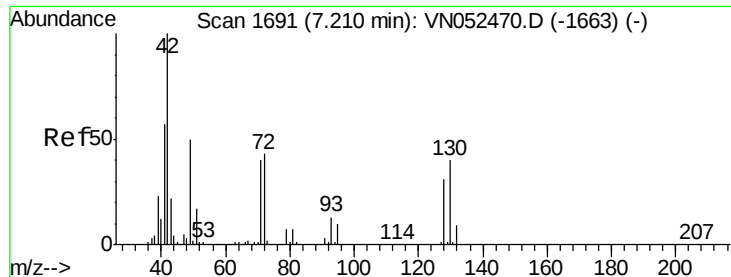
Tot Ion: 84 Resp: 24935
Ion Ratio Lower Upper
84 100
49 111.7 98.0 147.0
51 36.1 30.1 45.1
86 67.8 50.7 76.1



#25
2-Butanone
Concen: 2.693 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052782.D
Acq: 11 Dec 2018 5:24

Tgt Ion: 43 Resp: 13413
Ion Ratio Lower Upper
43 100
72 25.9 20.1 30.1





#29

Tetrahydrofuran

Concen: 0.479 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleId :

PB115498TB

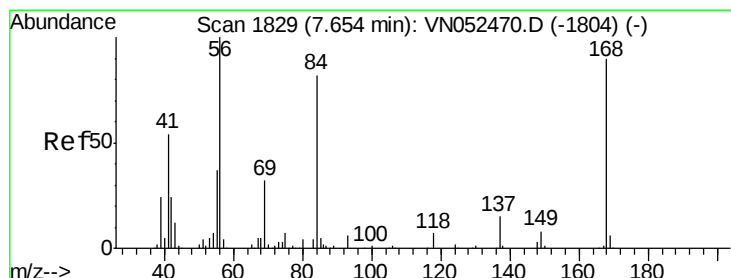
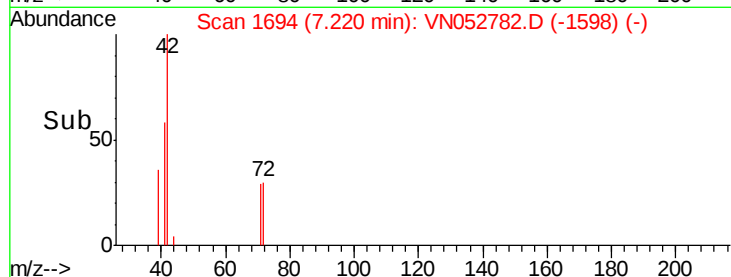
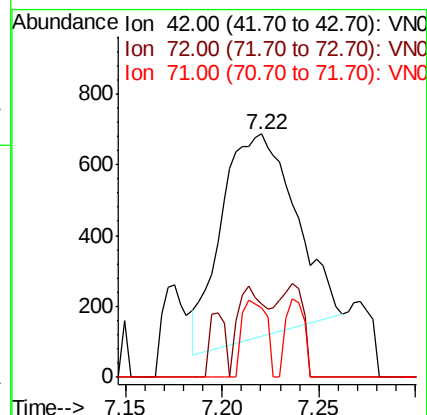
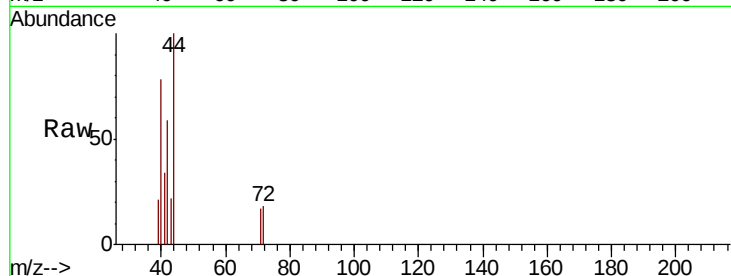
Tot Ion: 42 Resp: 1538

Ion Ratio Lower Upper

42 100

72 15.9 33.3 49.9#

71 12.2 32.0 48.0#



#31

Cyclohexane

Concen: 0.536 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

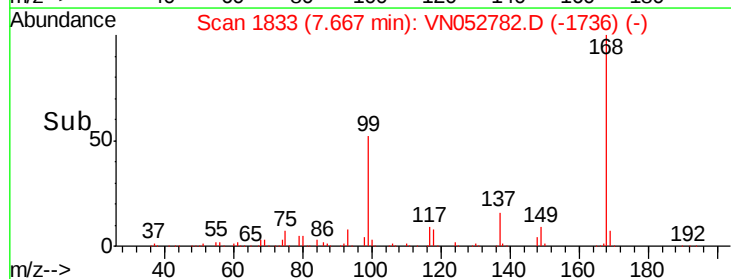
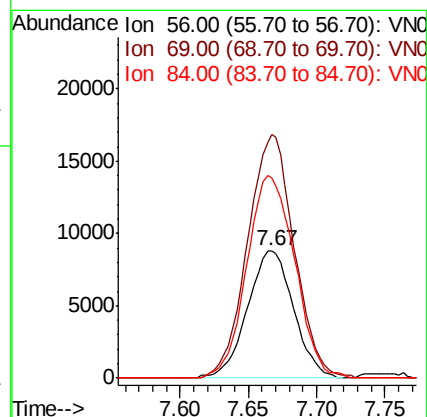
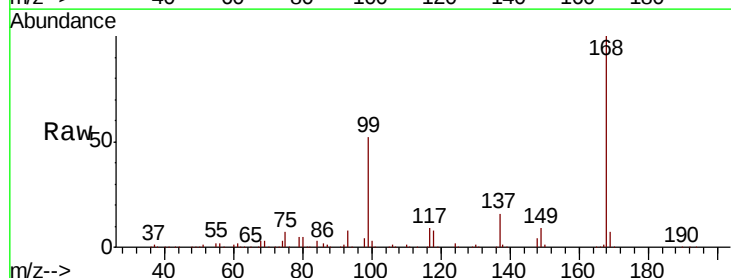
Tgt Ion: 56 Resp: 20576

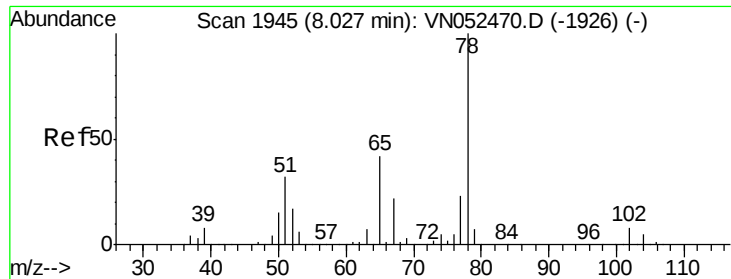
Ion Ratio Lower Upper

56 100

69 190.6 25.8 38.6#

84 157.0 65.3 97.9#

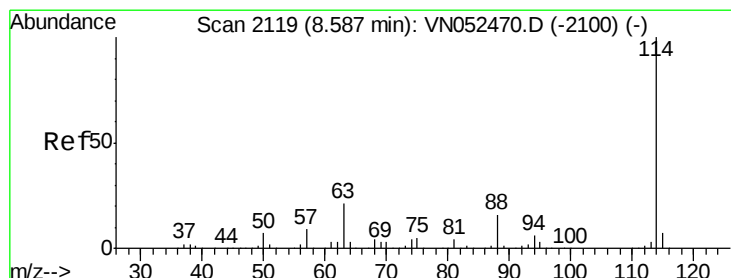
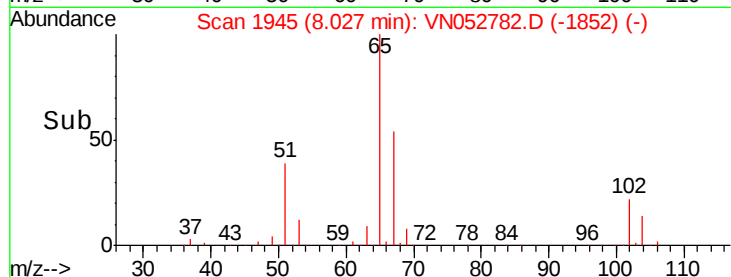
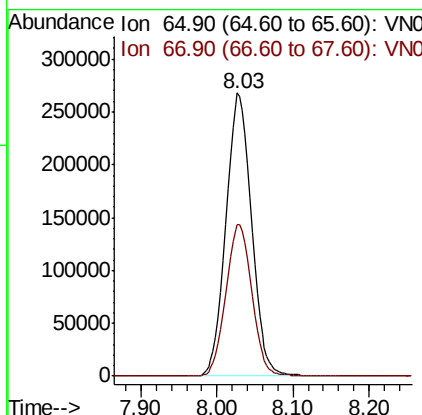
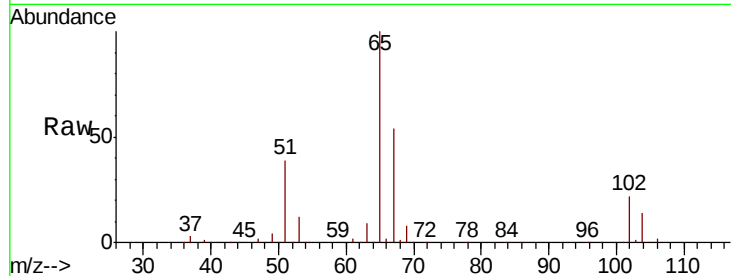




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052782.D
 Acq: 11 Dec 2018 5:24

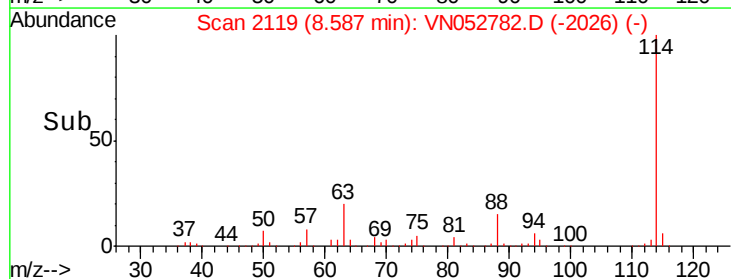
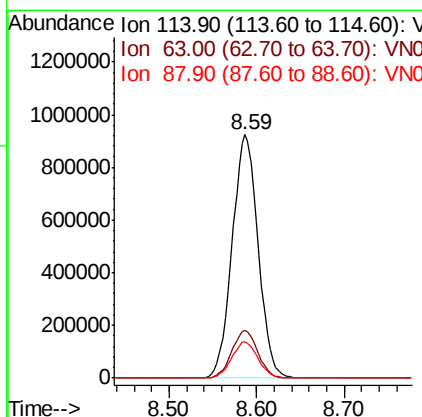
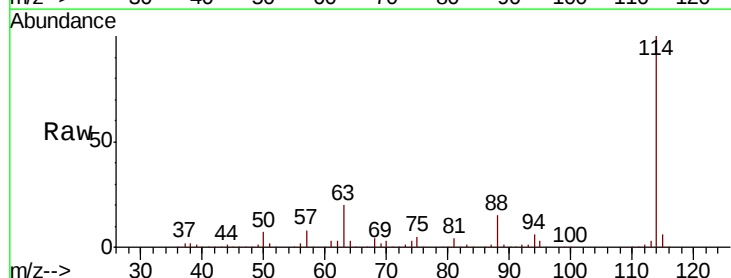
Instrument :
 MSVOA_N
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 PB115498TB

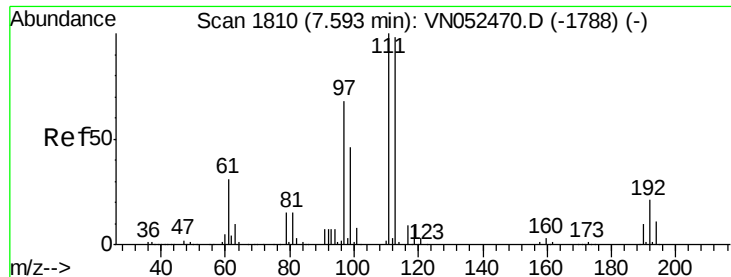
Tot Ion: 65 Resp: 630317
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052782.D
 Acq: 11 Dec 2018 5:24

Tgt Ion: 114 Resp: 1894516
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 41.8
 88 15.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampled :

PB115498TB

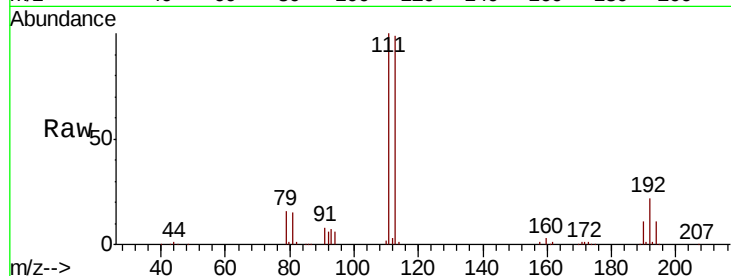
Tot Ion:113 Resp: 522877

Ion Ratio Lower Upper

113 100

111 103.1 82.0 123.0

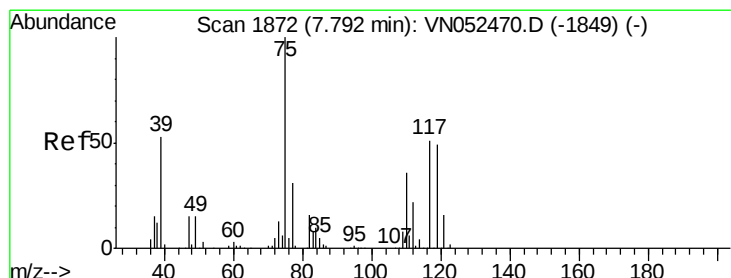
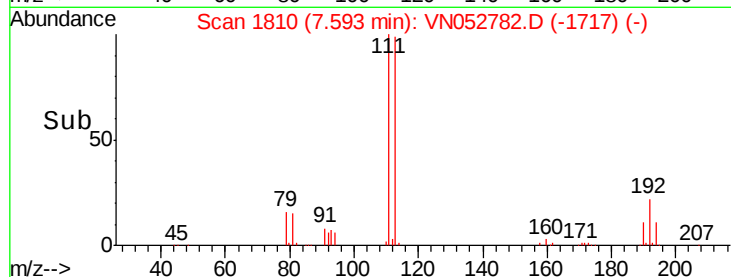
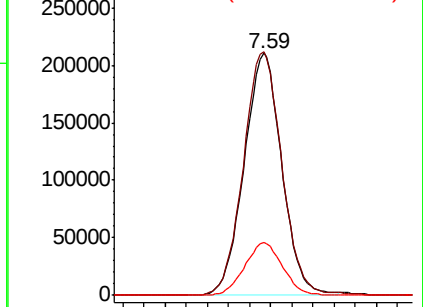
192 22.0 17.0 25.6



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: 4.696 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

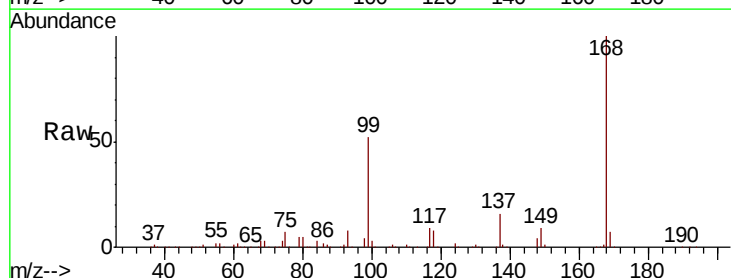
Tgt Ion: 75 Resp: 84020

Ion Ratio Lower Upper

75 100

110 7.9 17.5 52.6#

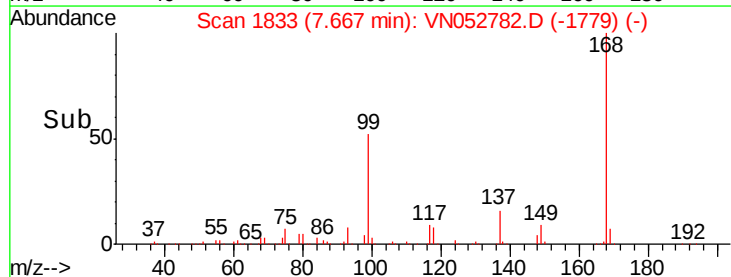
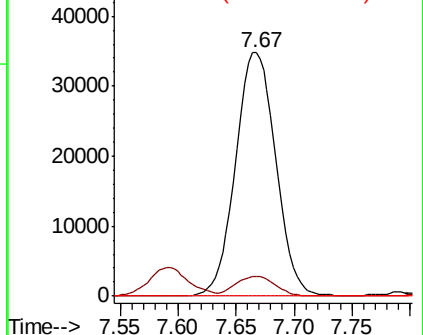
77 0.0 24.5 36.7#

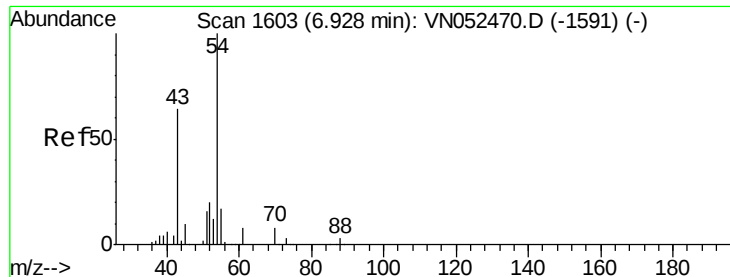


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 1.228 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.08 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleId :

PB115498TB

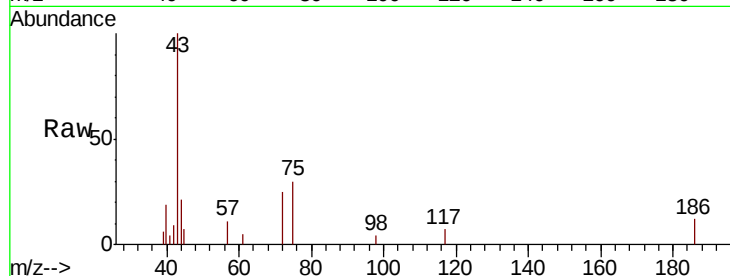
Tot Ion: 43 Resp: 13413

Ion Ratio Lower Upper

43 100

61 3.3 11.8 17.8#

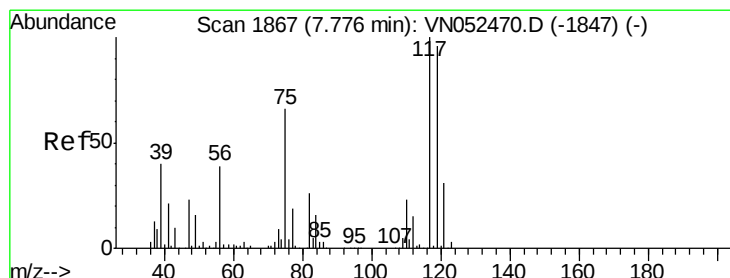
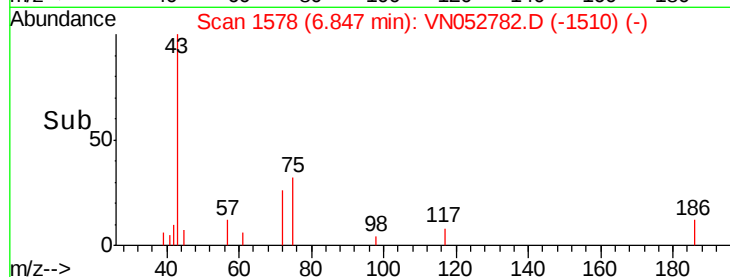
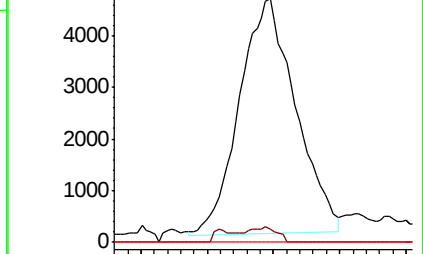
70 0.0 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052782.D (-1510) (-)

Ion 60.90 (60.60 to 61.60): VN052782.D (-1510) (-)

Ion 70.00 (69.70 to 70.70): VN052782.D (-1510) (-)



#38

Carbon Tetrachloride

Concen: 6.679 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

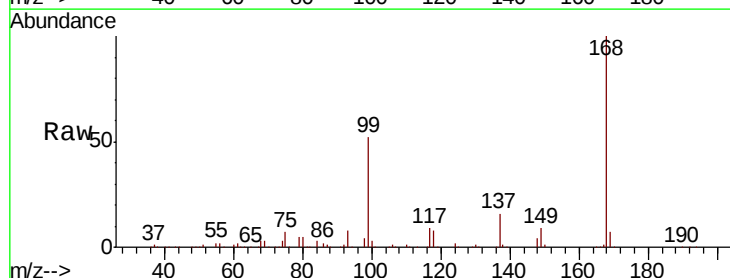
Tgt Ion: 117 Resp: 108171

Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

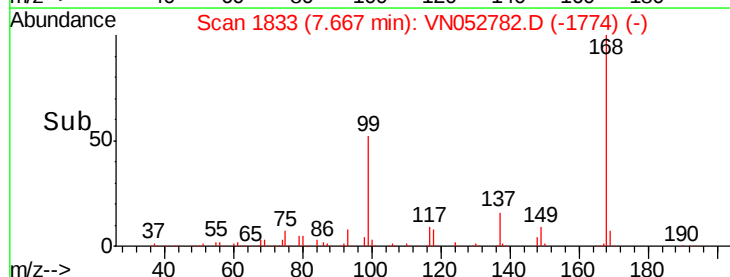
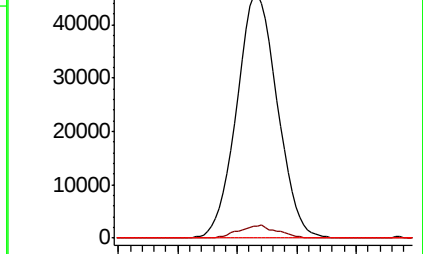
121 0.0 24.9 37.3#

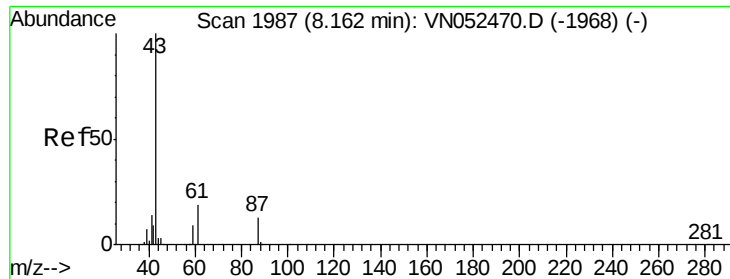


Abundance Ion 116.80 (116.50 to 117.50): VN052782.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052782.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052782.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 4.311 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleId :

PB115498TB

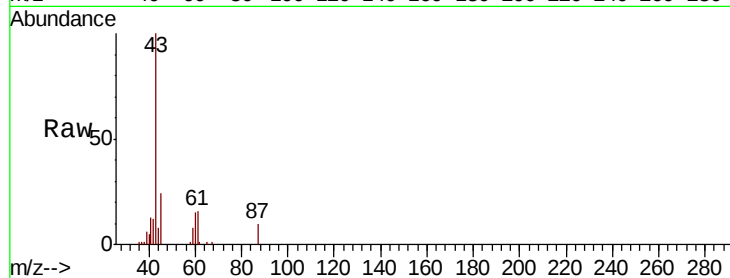
Tot Ion: 43 Resp: 79658

Ion Ratio Lower Upper

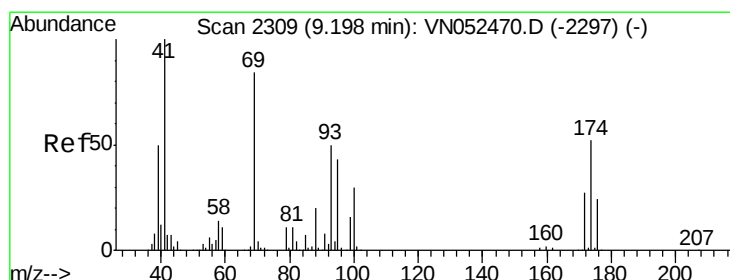
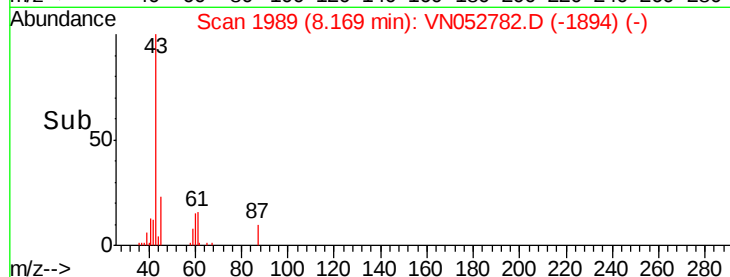
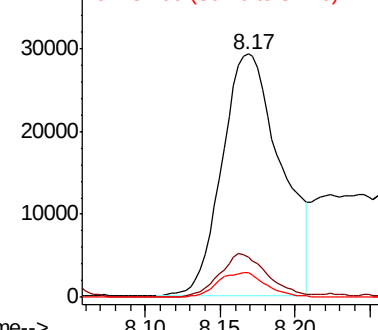
43 100

61 14.7 24.1 36.1#

87 8.5 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.686 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

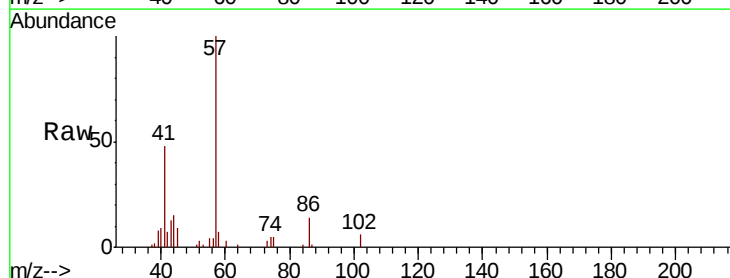
Tgt Ion: 41 Resp: 16246

Ion Ratio Lower Upper

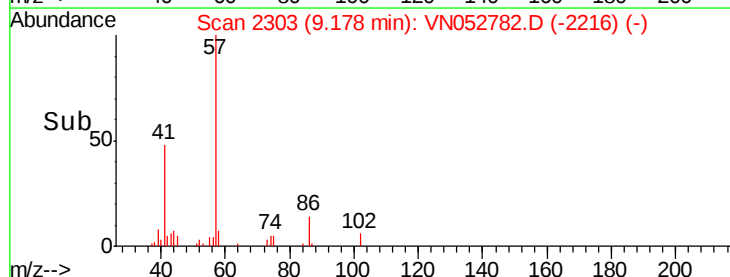
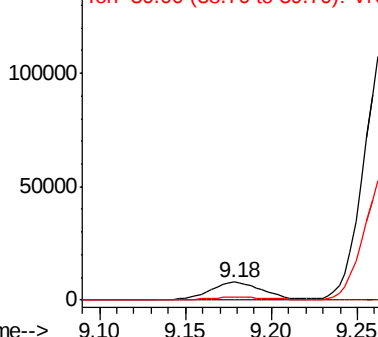
41 100

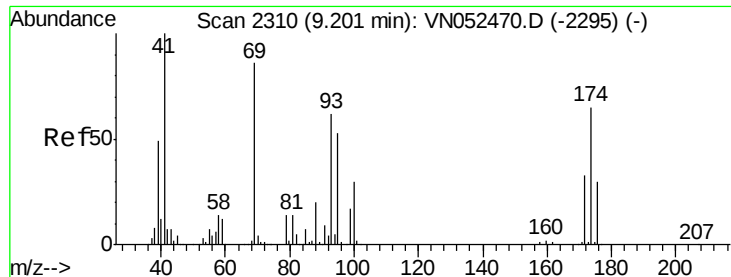
69 0.0 70.0 105.0#

39 0.0 42.6 64.0#



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





#49

1,4-Dioxane

Concen: 4.100 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleId :

PB115498TB

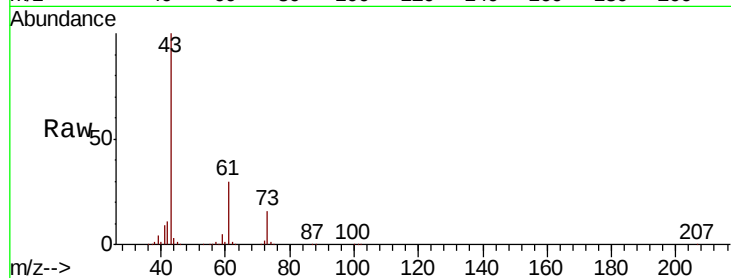
Tot Ion: 88 Resp: 410

Ion Ratio Lower Upper

88 100

43 625582.7 26.4 39.6#

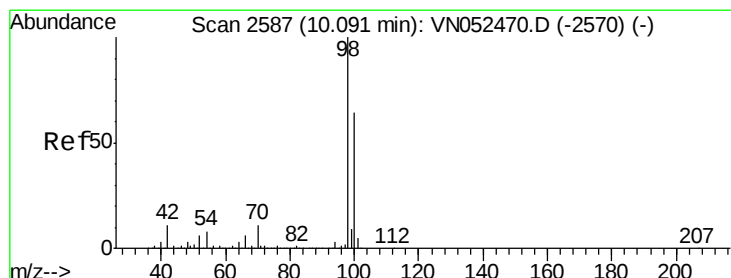
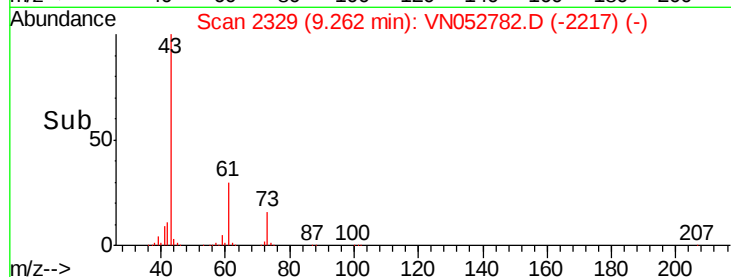
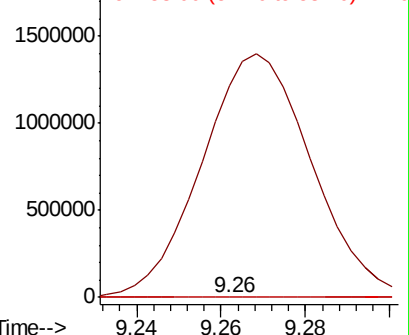
58 2752.4 55.4 83.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 4.100 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052782.D

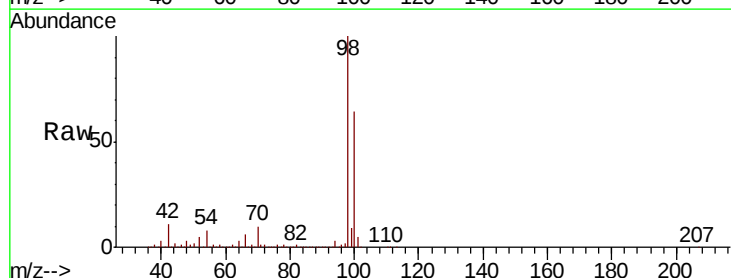
Acq: 11 Dec 2018 5:24

Tgt Ion: 98 Resp: 2320075

Ion Ratio Lower Upper

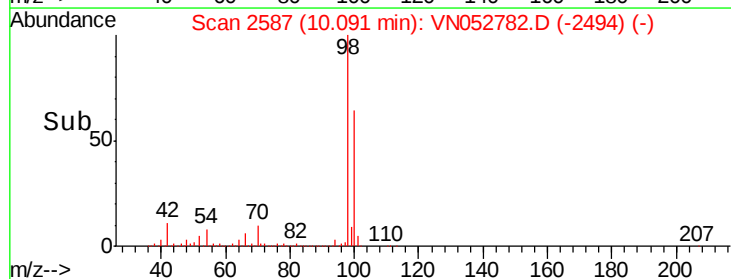
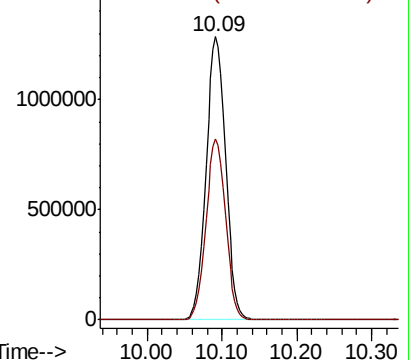
98 100

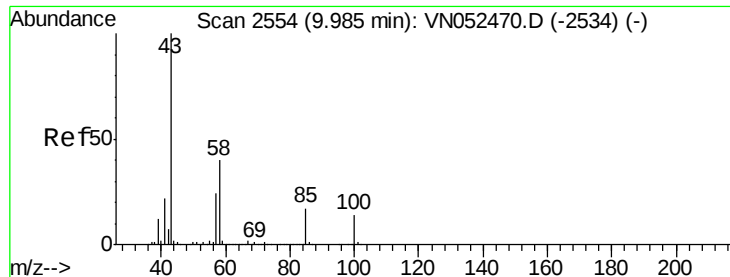
100 64.1 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.668 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleID :

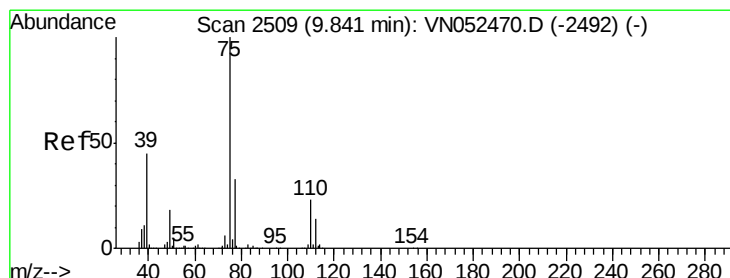
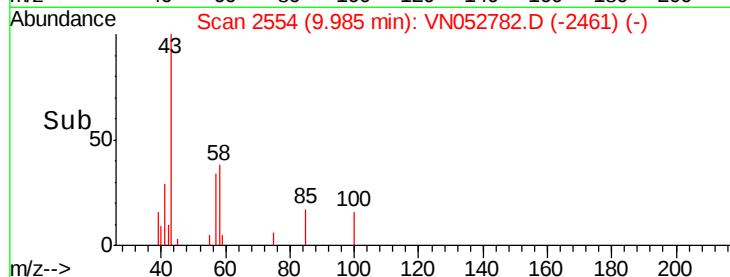
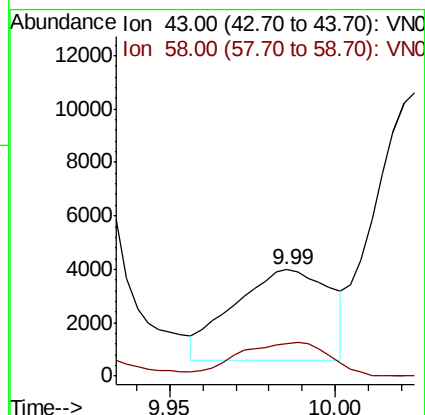
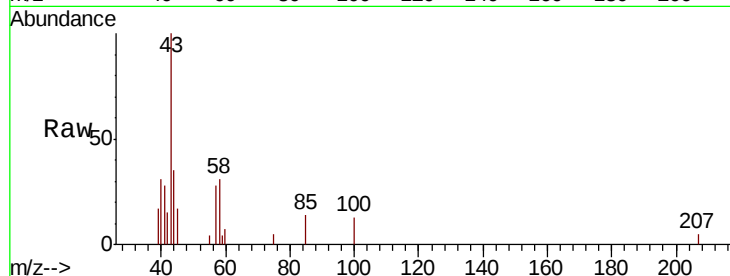
PB115498TB

Tot Ion: 43 Resp: 6922

Ion Ratio Lower Upper

43 100

58 35.1 31.5 47.3



#54

cis-1,3-Dichloropropene

Concen: 5.942 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

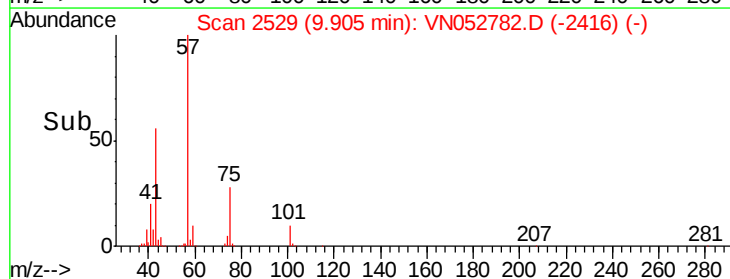
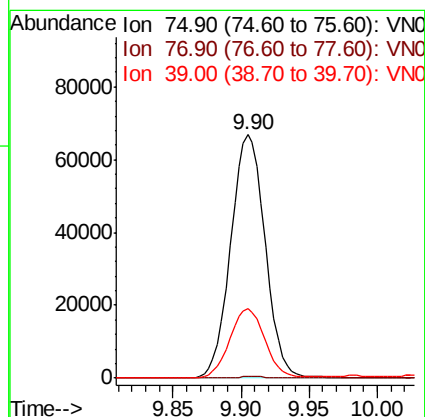
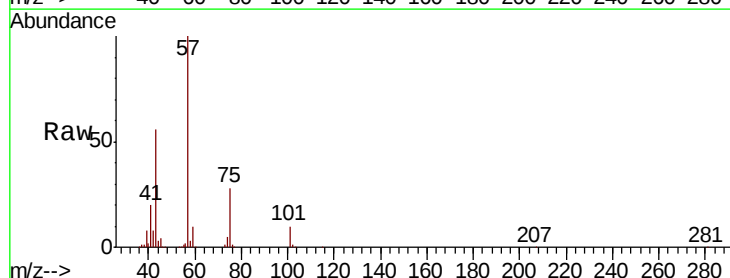
Tgt Ion: 75 Resp: 116877

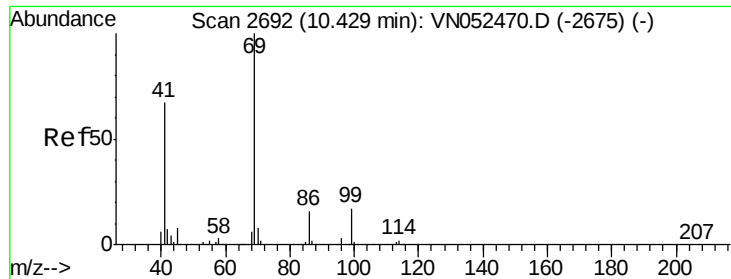
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 28.1 36.0 54.0#





#56

Ethyl methacrylate

Concen: 2.775 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampled :

PB115498TB

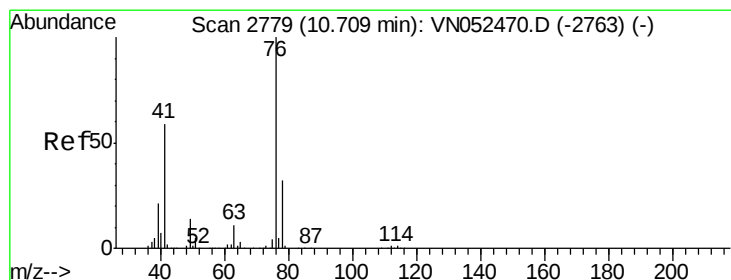
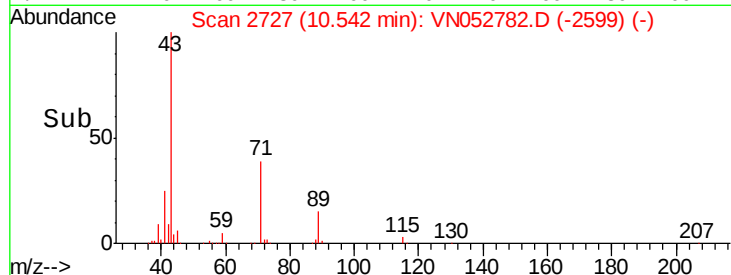
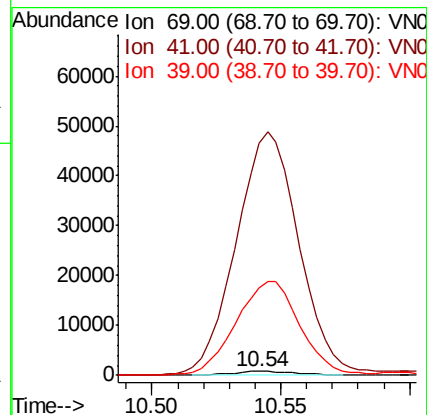
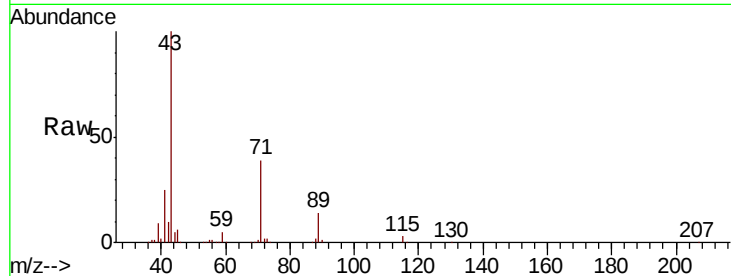
Tot Ion: 69 Resp: 1337

Ion Ratio Lower Upper

69 100

41 6272.3 52.6 79.0#

39 2446.1 25.9 38.9#



#57

1,3-Dichloropropane

Concen: 1.138 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052782.D

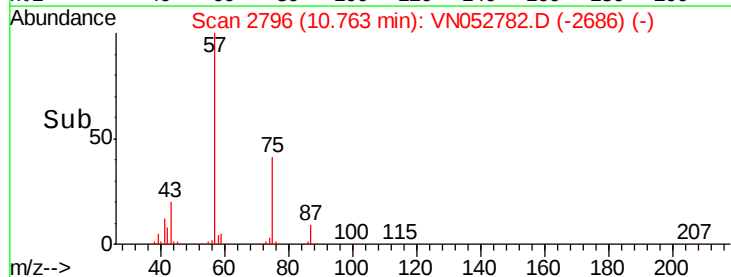
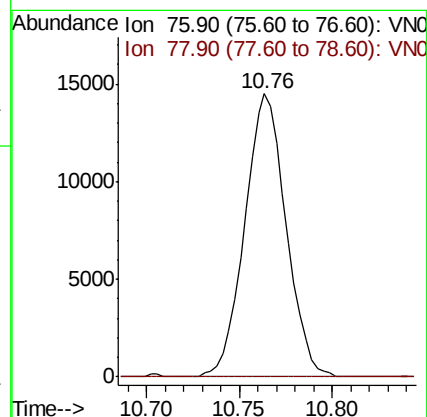
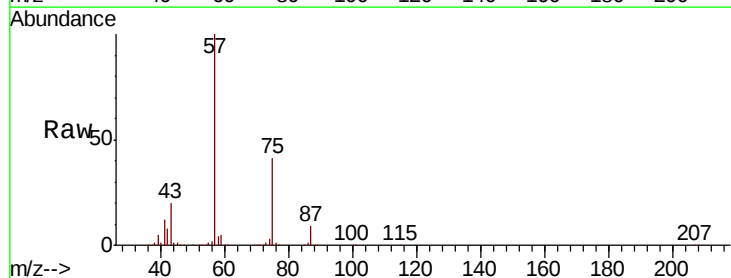
Acq: 11 Dec 2018 5:24

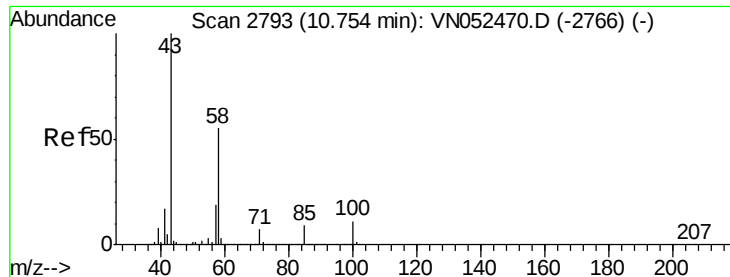
Tgt Ion: 76 Resp: 22383

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

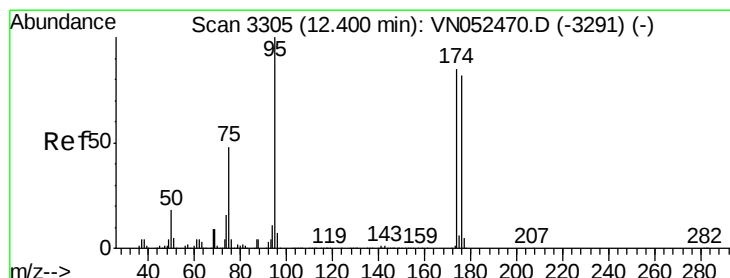
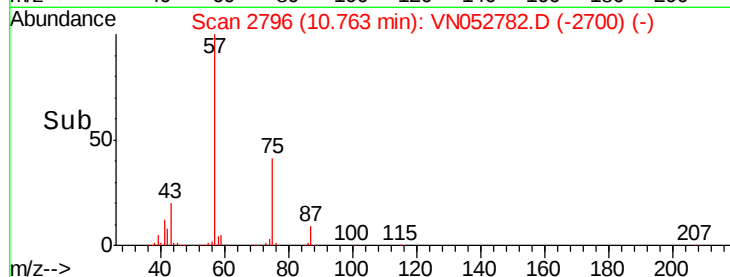
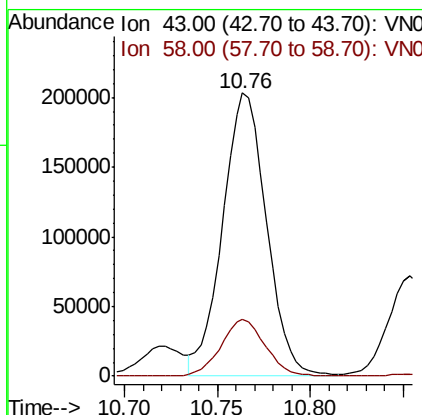
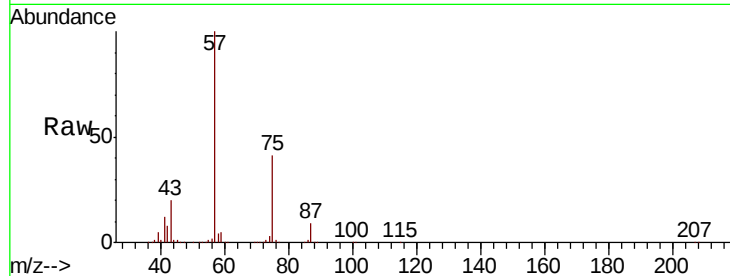




#59
2-Hexanone
Concen: 47.451 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052782.D
Acq: 11 Dec 2018 5:24

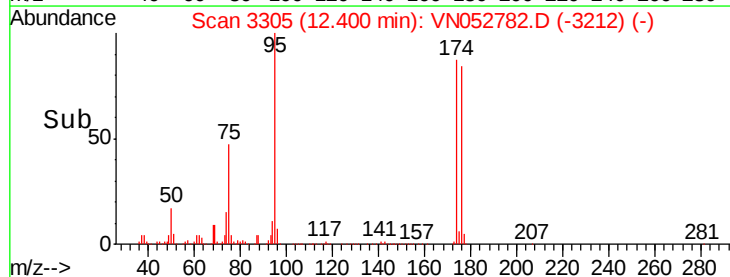
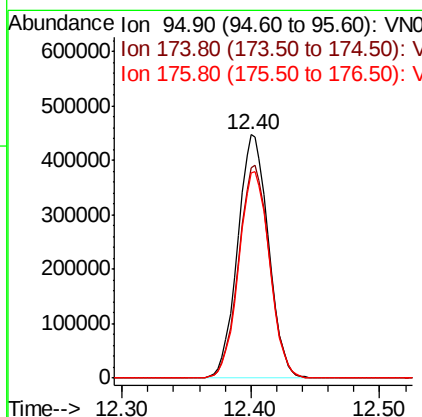
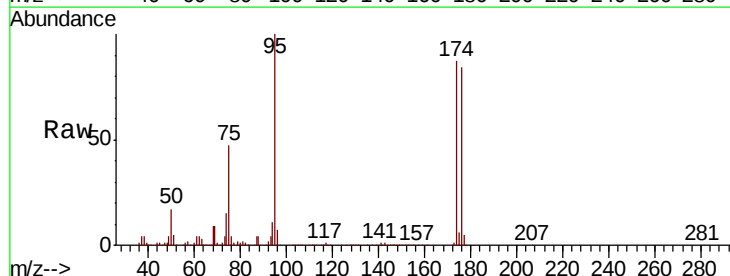
Instrument :
MSVOA_N
ClientSampleId :
PB115498TB

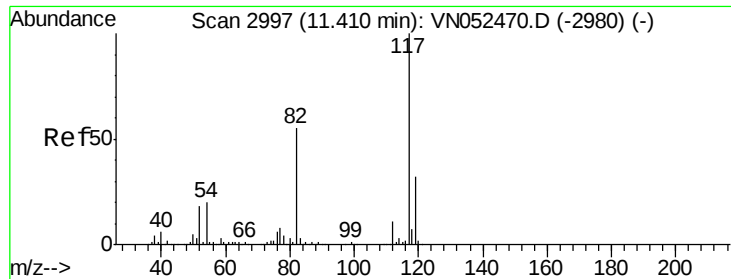
Tot Ion: 43 Resp: 330159
Ion Ratio Lower Upper
43 100
58 20.4 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052782.D
Acq: 11 Dec 2018 5:24

Tgt Ion: 95 Resp: 740686
Ion Ratio Lower Upper
95 100
174 87.8 0.0 173.0
176 85.2 0.0 166.2

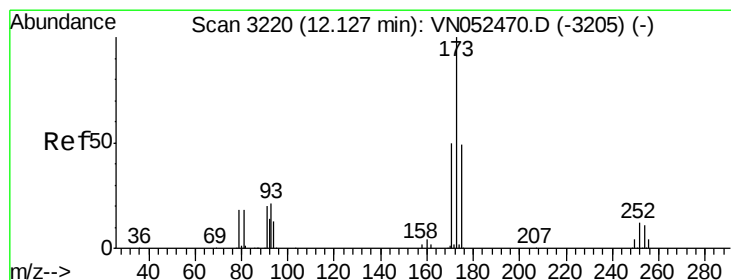
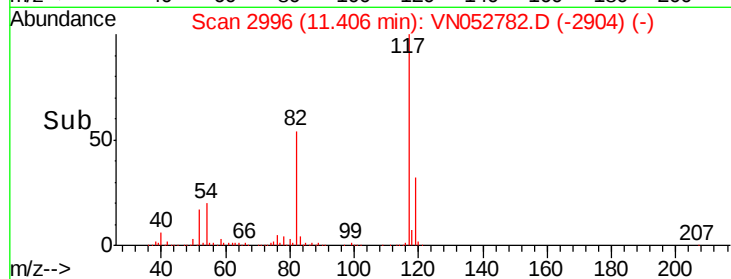
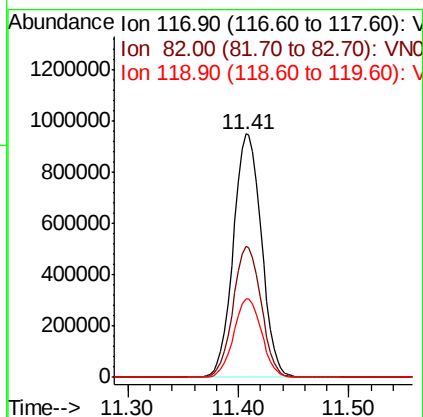
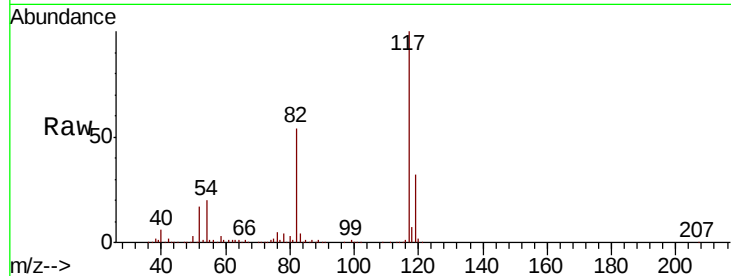




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052782.D
Acq: 11 Dec 2018 5:24

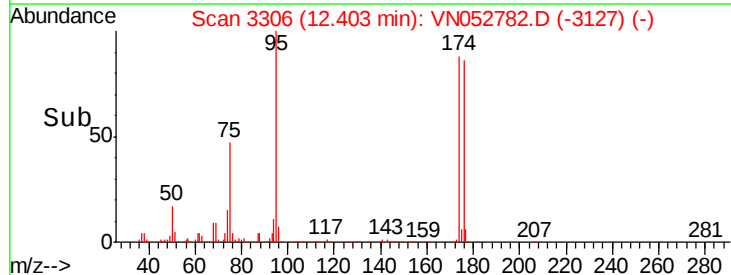
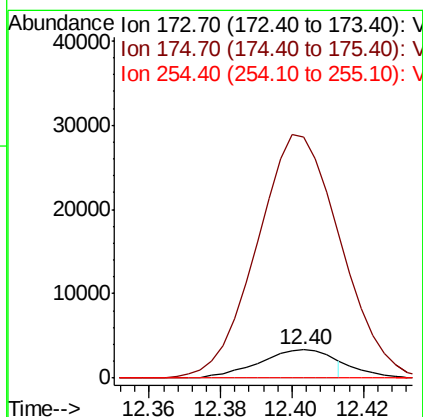
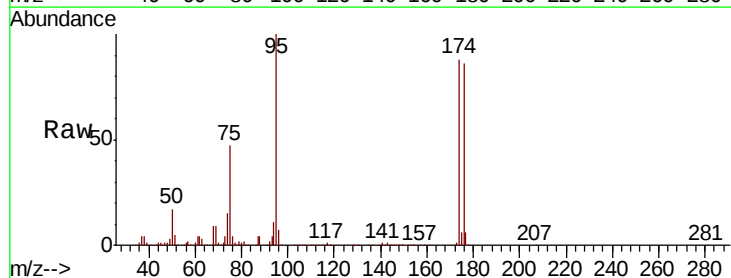
Instrument :
MSVOA_N
ClientSampleId :
PB115498TB

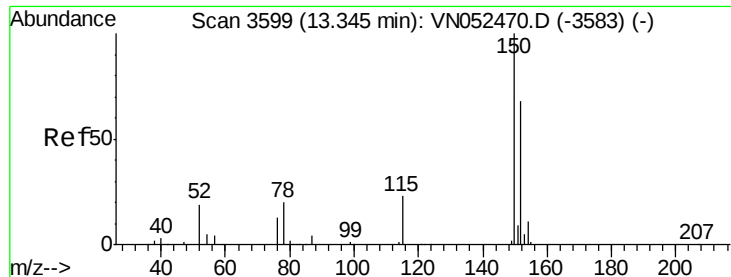
Tot Ion:117 Resp: 1671854
Ion Ratio Lower Upper
117 100
82 53.8 43.6 65.4
119 32.3 25.4 38.2



#71
Bromoform
Concen: 0.594 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052782.D
Acq: 11 Dec 2018 5:24

Tgt Ion:173 Resp: 4713
Ion Ratio Lower Upper
173 100
175 868.5 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleId :

PB115498TB

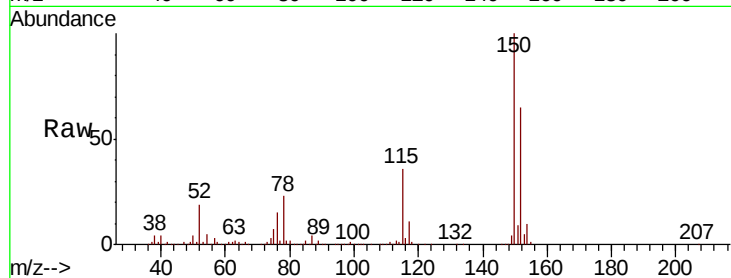
Tot Ion:152 Resp: 655145

Ion Ratio Lower Upper

152 100

115 56.2 28.4 85.2

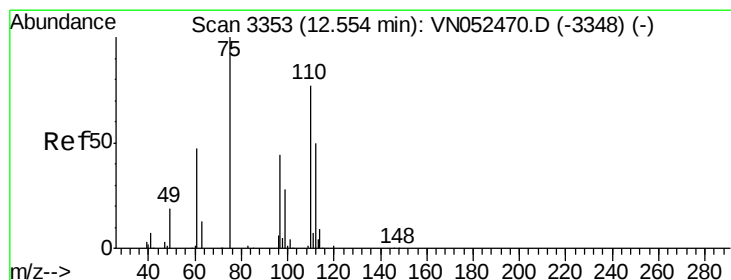
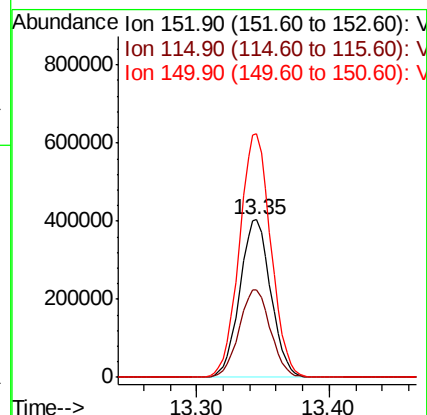
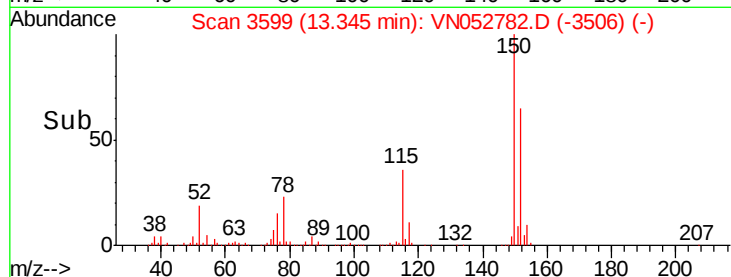
150 156.2 0.0 346.0



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



#76

1,2,3-Trichloropropane

Concen: 34.446 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052782.D

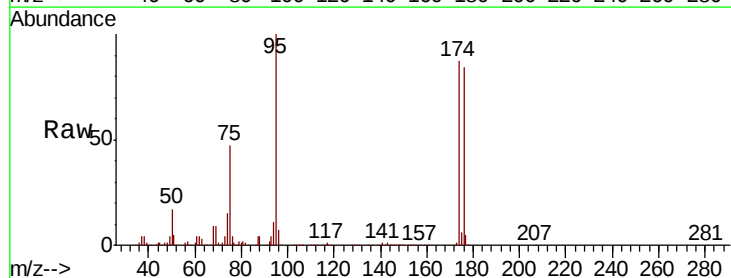
Acq: 11 Dec 2018 5:24

Tgt Ion: 75 Resp: 347995

Ion Ratio Lower Upper

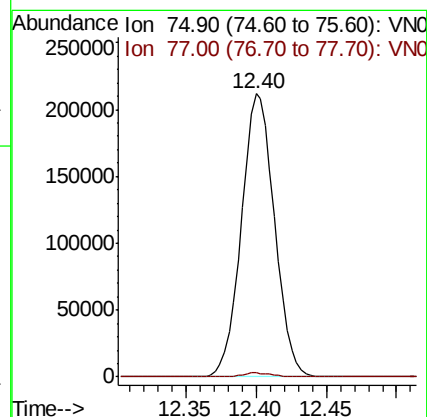
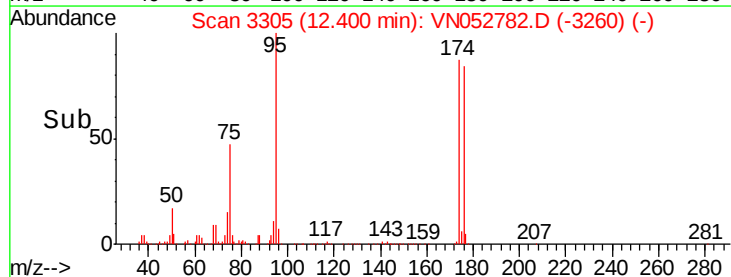
75 100

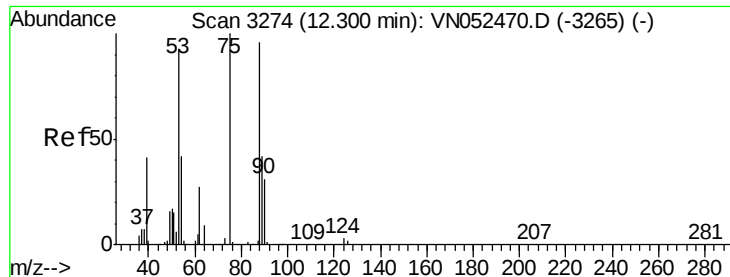
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 115.033 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampled :

PB115498TB

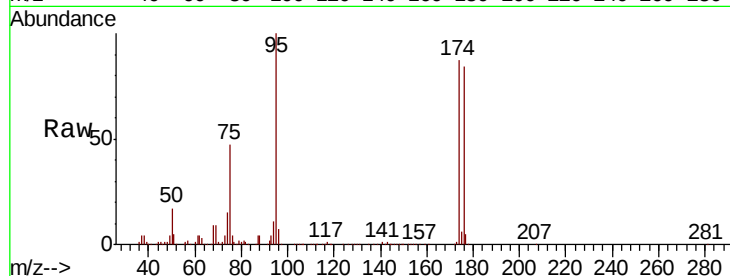
Tot Ion: 75 Resp: 347995

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

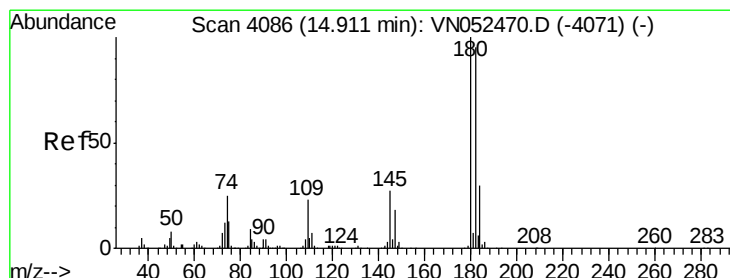
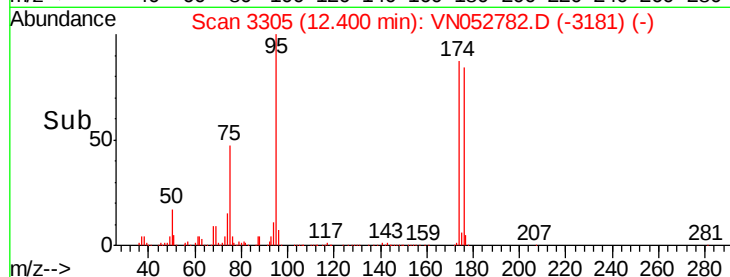
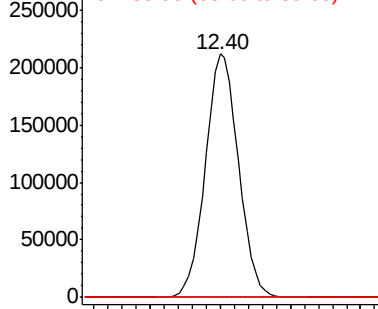
89 0.0 35.4 53.2#



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: 3.164 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

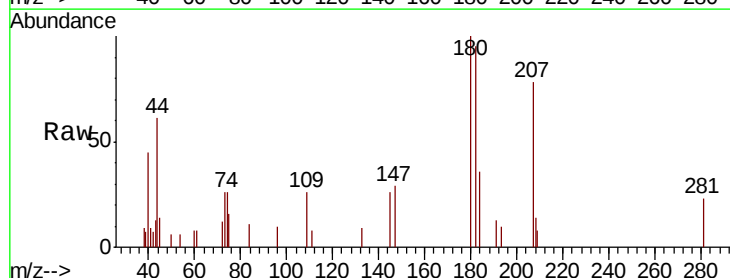
Tgt Ion: 180 Resp: 4118

Ion Ratio Lower Upper

180 100

182 109.6 47.8 143.4

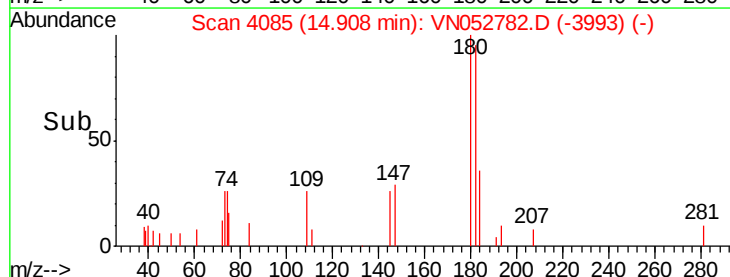
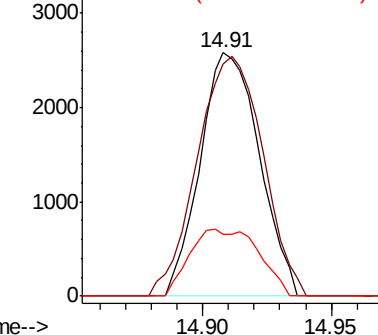
145 32.0 14.1 42.3

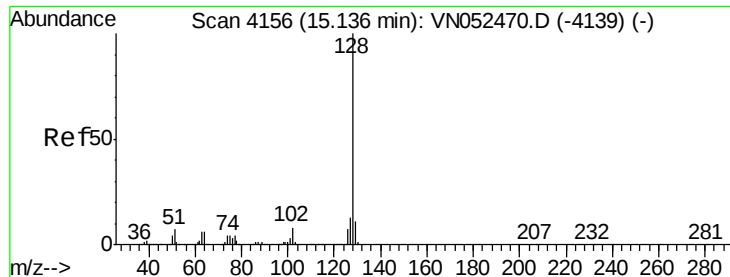


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.993 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

Instrument :

MSVOA_N

ClientSampleId :

PB115498TB

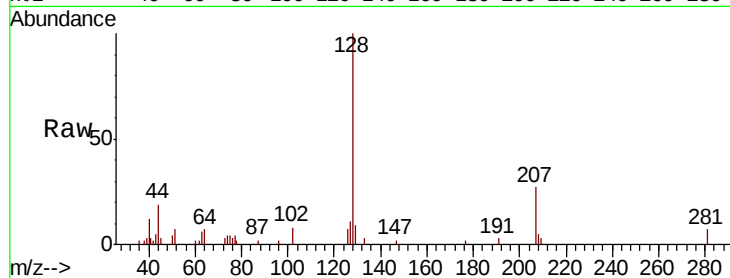
Tot Ion:128 Resp: 14944

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

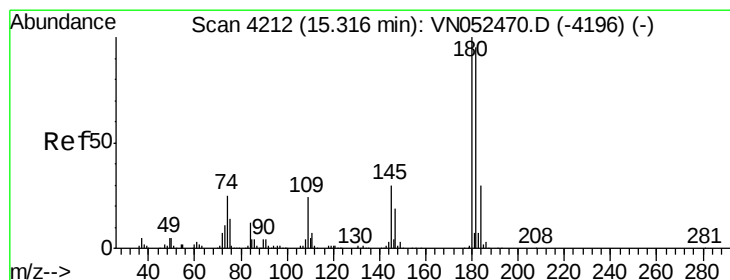
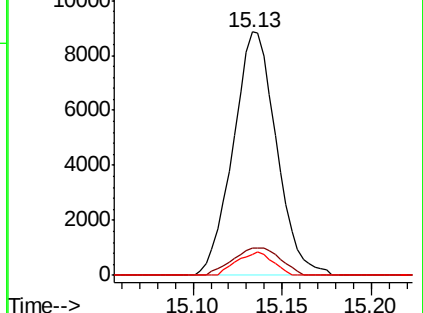
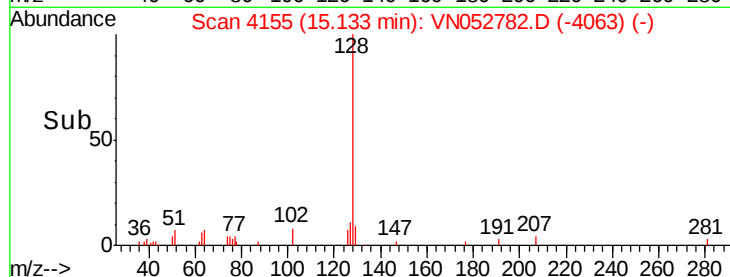
129 7.9 8.7 13.1#



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: 3.160 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052782.D

Acq: 11 Dec 2018 5:24

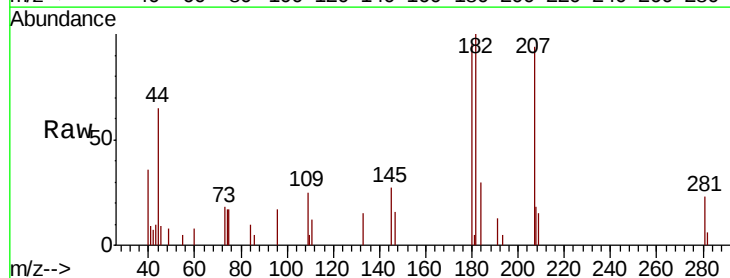
Tgt Ion:180 Resp: 4902

Ion Ratio Lower Upper

180 100

182 96.0 47.8 143.3

145 26.5 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

