

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121718\
 Data File : VN052927.D
 Acq On : 17 Dec 2018 15:11
 Operator : MD\SY
 Sample : J6438-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 23701

Quant Time: Dec 18 04:44:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-7.67
34) 1,4-Difluorobenzene	8.79	114	1666431	50.00	ug/l	0.20
63) Chlorobenzene-d5	11.45	117	1418330	50.00	ug/l	0.05
72) 1,4-Dichlorobenzene-d4	13.35	152	591127	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.29	65	520611	0.00	ug/l	0.27
Spiked Amount			Recovery	=	0.00%	
35) Dibromofluoromethane	7.91	113	363487	39.08	ug/l	0.32
Spiked Amount			Recovery	=	78.16%	
50) Toluene-d8	10.19	98	1986012	49.24	ug/l	0.10
Spiked Amount			Recovery	=	98.48%	
62) 4-Bromofluorobenzene	12.43	95	632285	46.27	ug/l	0.02
Spiked Amount			Recovery	=	92.54%	

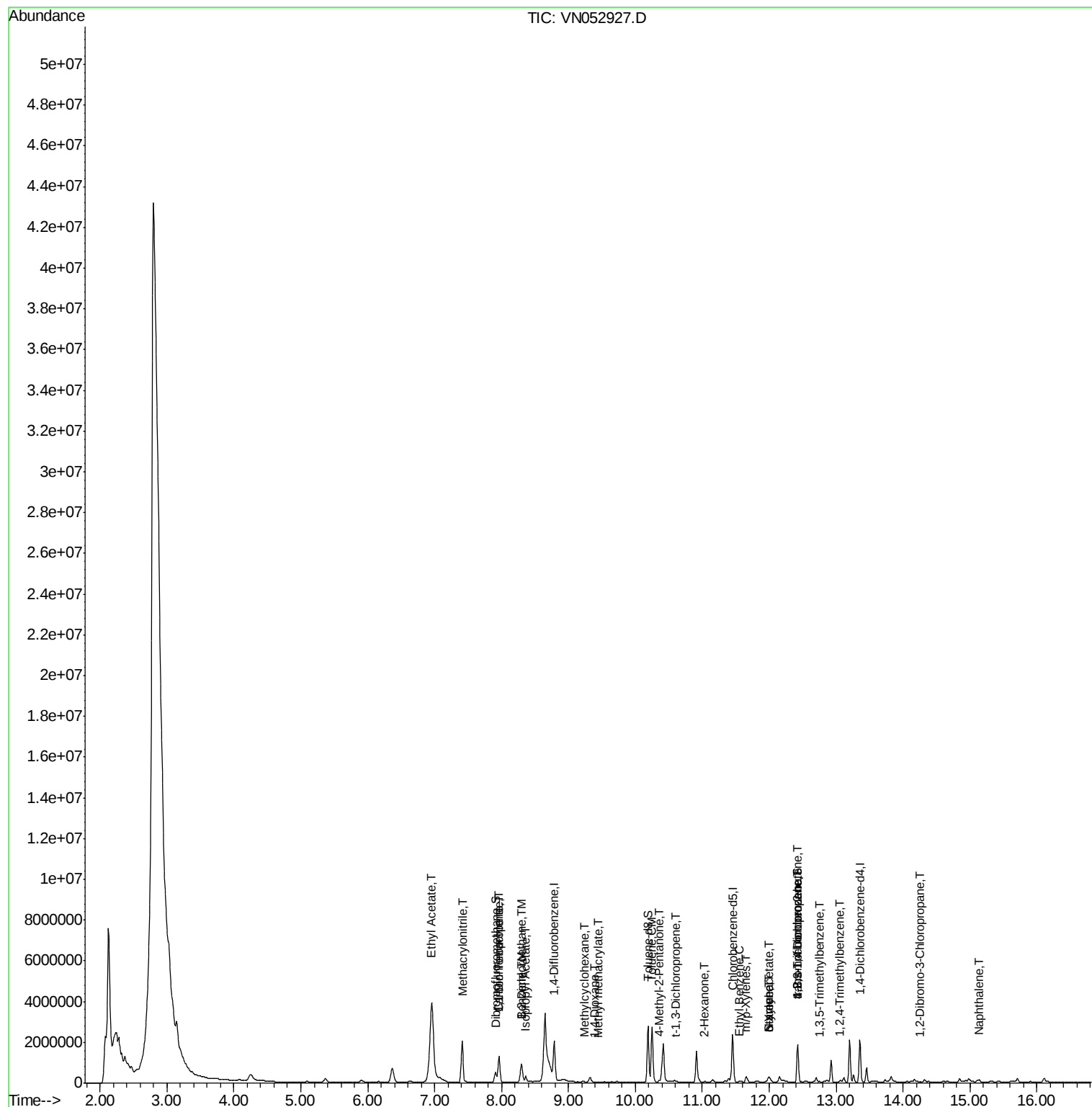
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	7.96	75	69690	4.541	ug/l #	48
37) Ethyl Acetate	6.96	43	3193995	346.471	ug/l #	68
38) Carbon Tetrachloride	7.96	117	89769	6.355	ug/l #	15
39) Methylcyclohexane	9.25	83	4366	0.232	ug/l	89
40) Benzene	8.31	78	287650	6.245	ug/l	98
41) Methacrylonitrile	7.41	41	62425	12.221	ug/l #	17
42) 1,2-Dichloroethane	8.31	62	5643	0.407	ug/l	87
43) Isopropyl Acetate	8.36	43	161775	8.559	ug/l #	85
48) Methyl methacrylate	9.44	41	3424	0.413	ug/l #	28
49) 1,4-Dioxane	9.40	88	128	1.360	ug/l #	22
51) 4-Methyl-2-Pentanone	10.35	43	50370	5.812	ug/l #	71
52) Toluene	10.25	92	1222099	43.810	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	4568	0.313	ug/l #	71
59) 2-Hexanone	11.03	43	13316	2.242	ug/l #	23
67) Ethyl Benzene	11.55	91	44764	0.886	ug/l	94
68) m/p-Xylenes	11.66	106	90157	4.752	ug/l	99
69) o-Xylene	11.98	106	33176	1.791	ug/l	97
70) Styrene	11.99	104	34464	1.157	ug/l	93
74) N-amyl acetate	11.99	43	185785	15.333	ug/l #	46
76) 1,2,3-Trichloropropane	12.43	75	300503	34.456	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.75	105	16128	0.453	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.43	75	300585	110.719	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.06	105	60954	1.690	ug/l	76
92) 1,2-Dibromo-3-Chloropropan	14.26	75	371	0.249	ug/l #	1
95) Naphthalene	15.14	128	86523	4.005	ug/l	99

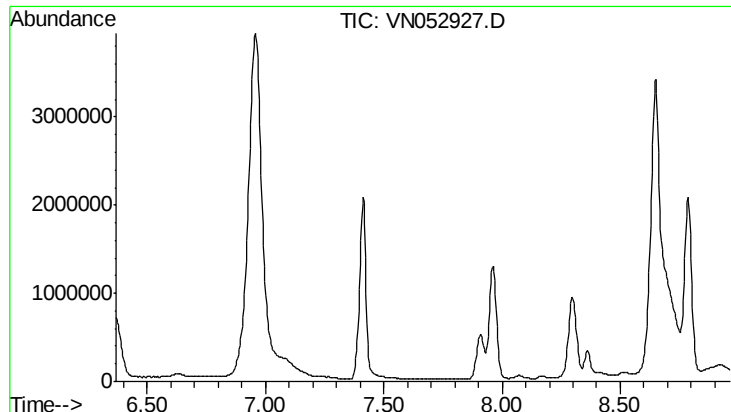
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 7.67 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Tot Ion: 168

Sig Exp Ratio

168 100

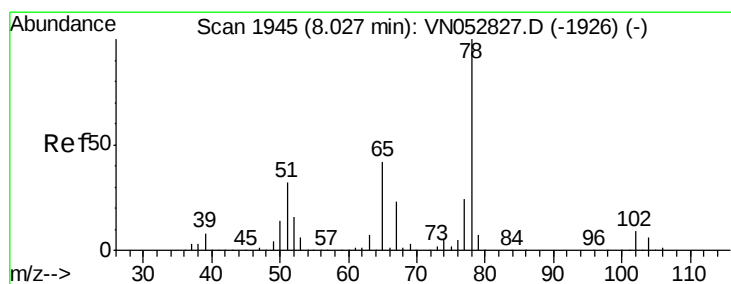
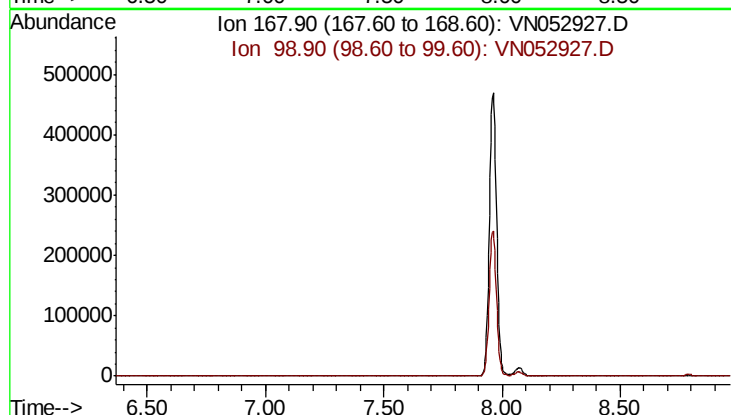
99 50.2

Instrument :

MSVOA_N

ClientSampleId :

23701



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.27 min

Lab File: VN052927.D

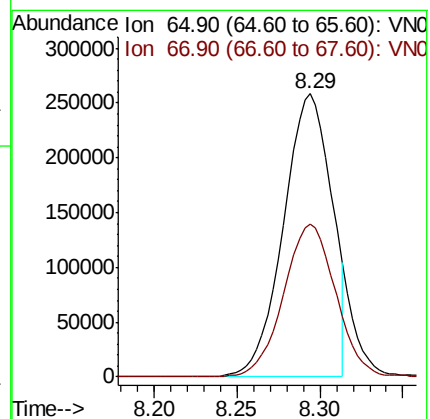
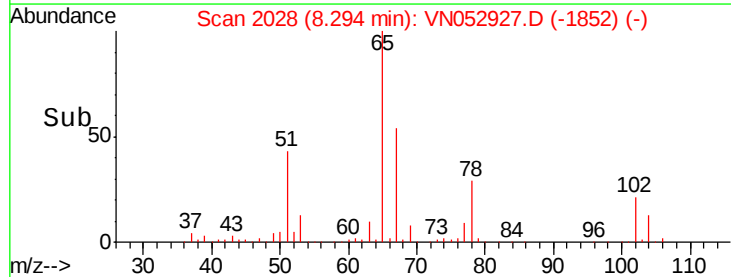
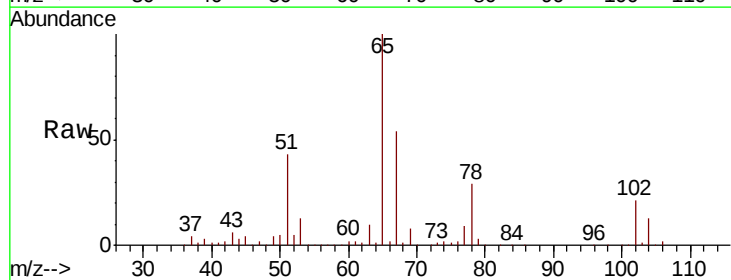
Acq: 17 Dec 2018 15:11

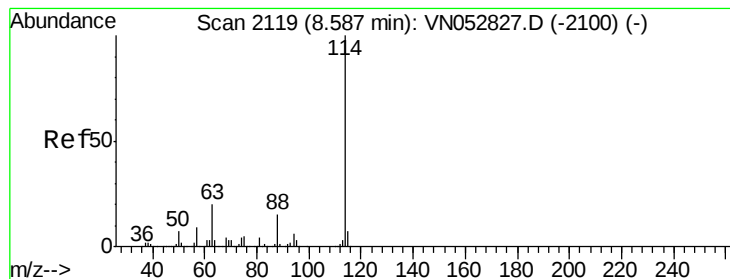
Tgt Ion: 65 Resp: 520611

Ion Ratio Lower Upper

65 100

67 54.1 0.0 110.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.79 min Scan# 2181

Delta R.T. 0.20 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampled :

23701

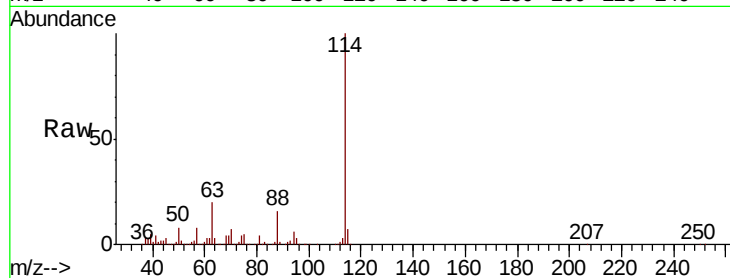
Tot Ion:114 Resp: 1666431

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

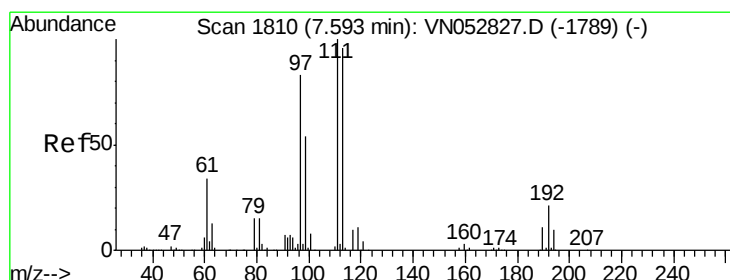
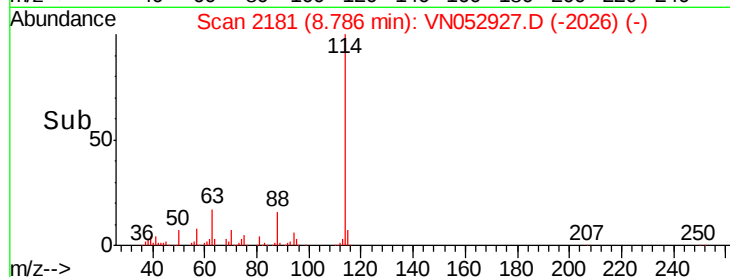
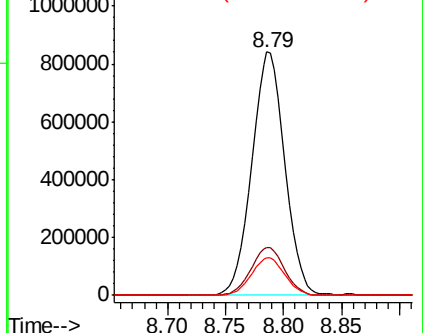
88 15.5 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VNO

Ion 87.90 (87.60 to 88.60): VNO



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.91 min Scan# 1908

Delta R.T. 0.32 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

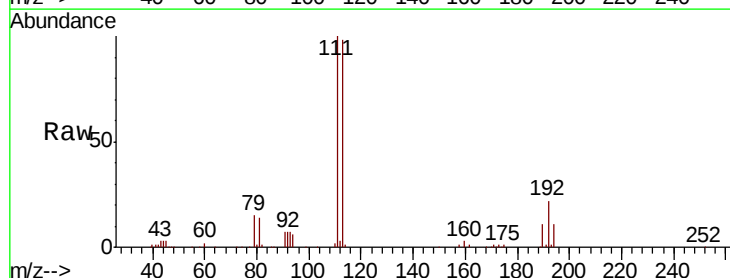
Tgt Ion:113 Resp: 363487

Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.4

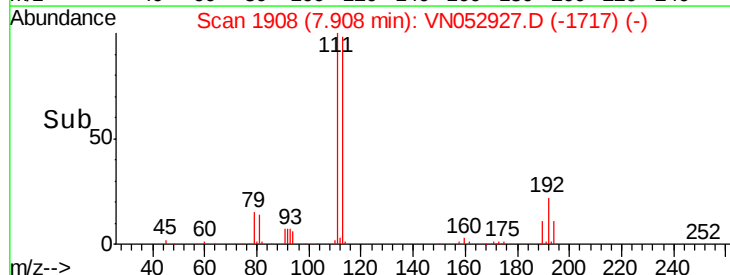
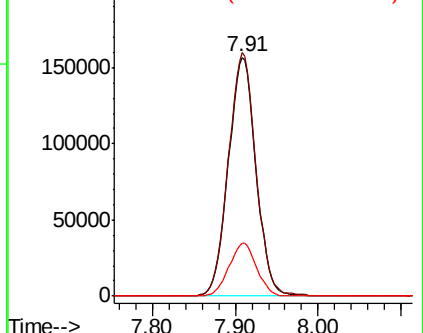
192 22.1 17.5 26.3

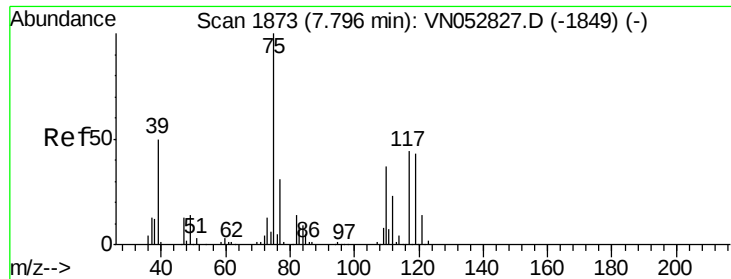


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

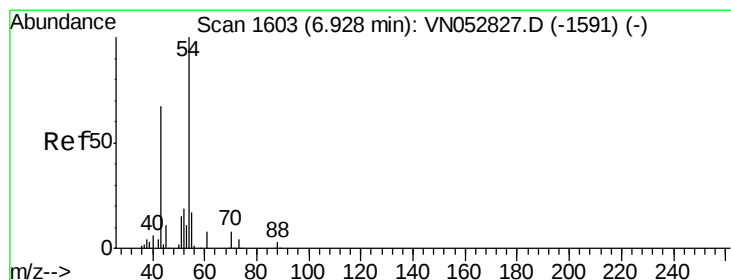
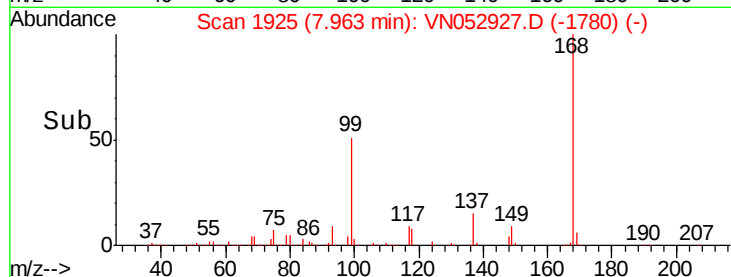
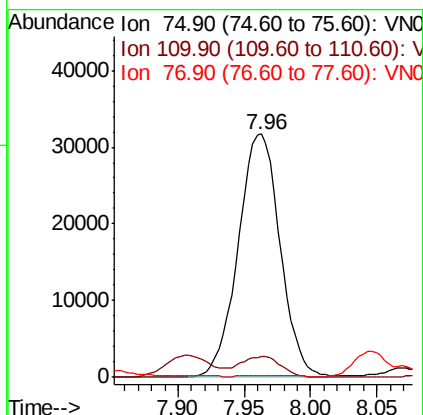
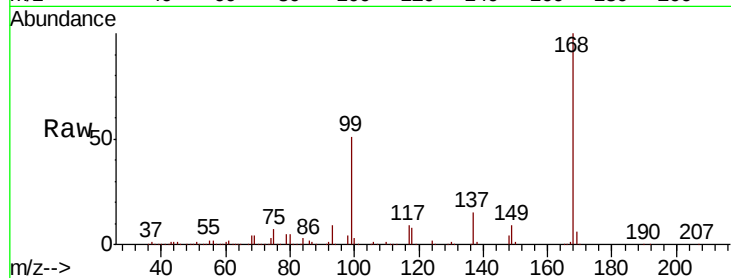




#36
 1,1-Dichloropropene
 Concen: 4.541 ug/l
 RT: 7.96 min Scan# 1925
 Delta R.T. 0.17 min
 Lab File: VN052927.D
 Acq: 17 Dec 2018 15:11

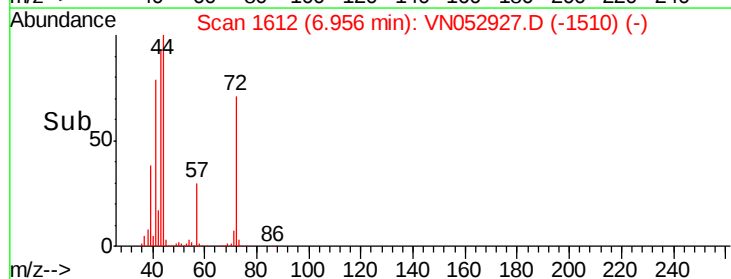
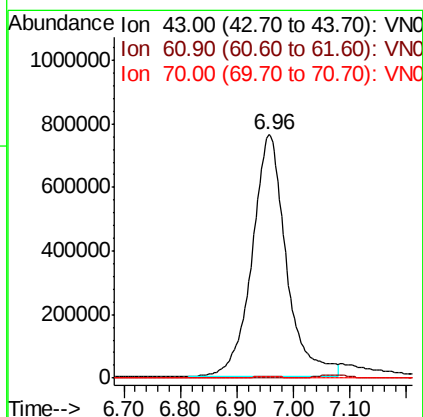
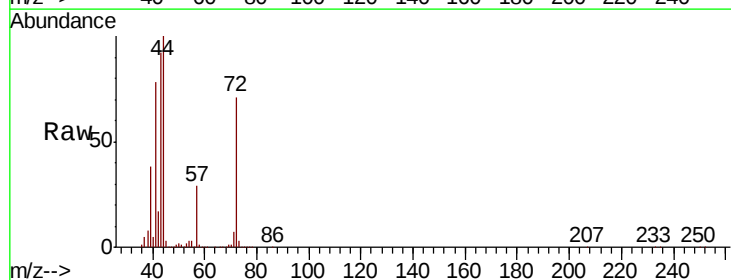
Instrument :
 MSVOA_N
 ClientSampled :
 23701

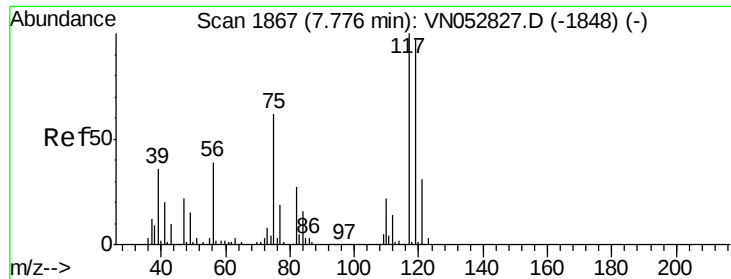
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.2	54.6#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 346.471 ug/l
 RT: 6.96 min Scan# 1612
 Delta R.T. 0.03 min
 Lab File: VN052927.D
 Acq: 17 Dec 2018 15:11

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.7	8.4	12.6#





#38

Carbon Tetrachloride

Concen: 6.355 ug/l

RT: 7.96 min Scan# 1925

Delta R.T. 0.19 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampled :

23701

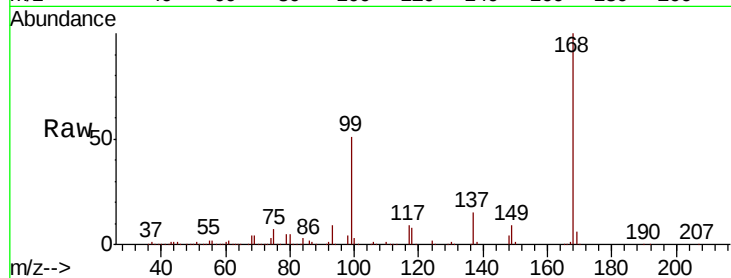
Tot Ion:117 Resp: 89769

Ion Ratio Lower Upper

117 100

119 4.2 77.1 115.7#

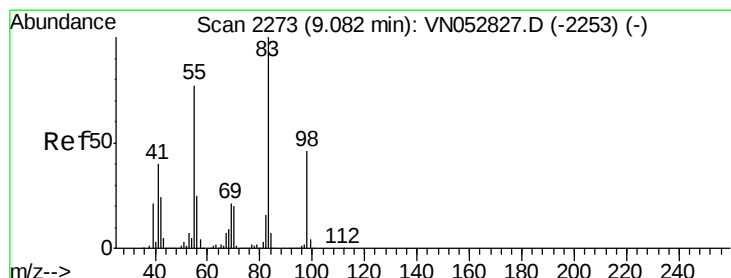
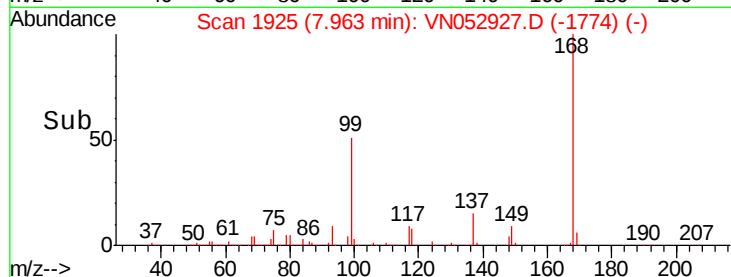
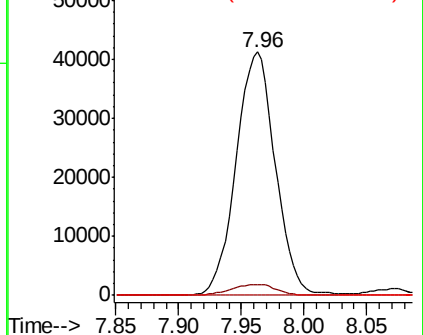
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.232 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.17 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

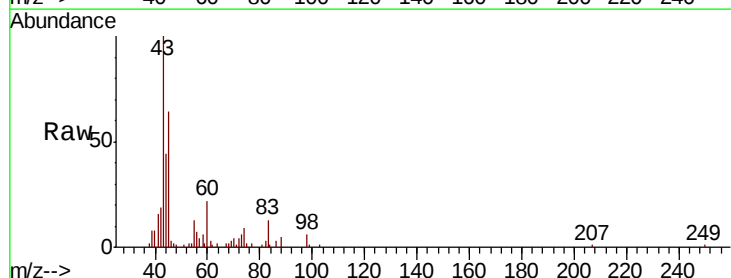
Tgt Ion: 83 Resp: 4366

Ion Ratio Lower Upper

83 100

55 62.9 61.3 91.9

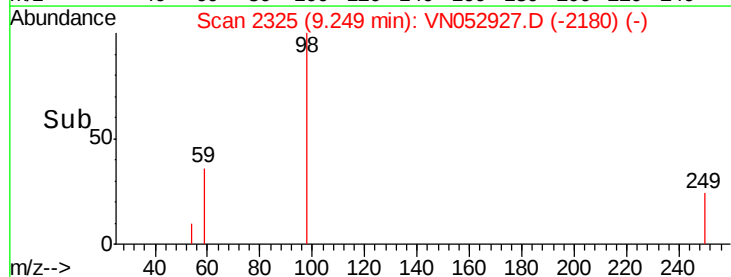
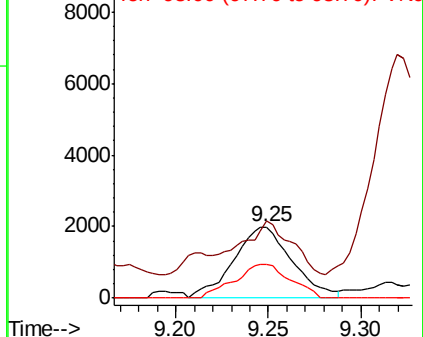
98 47.9 37.0 55.4

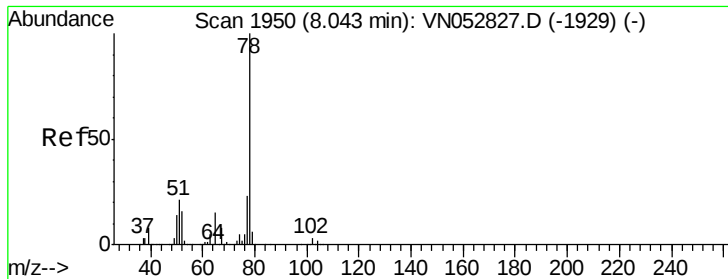


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#40

Benzene

Concen: 6.245 ug/l

RT: 8.31 min Scan# 2033

Delta R.T. 0.27 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

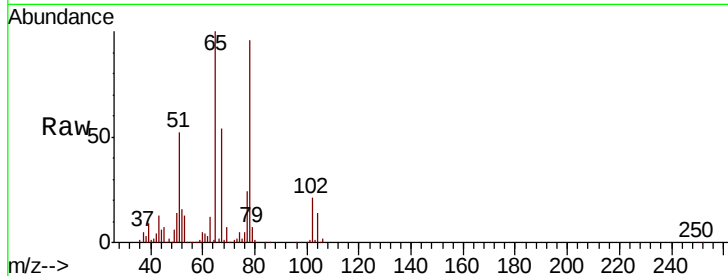
23701

Tot Ion: 78 Resp: 287650

Ion Ratio Lower Upper

78 100

77 24.3 18.5 27.7



Abundance Ion 78.00 (77.70 to 78.70): VNO

Ion 77.00 (76.70 to 77.70): VNO

8.31

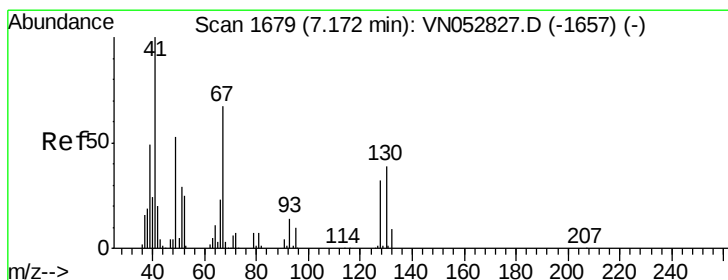
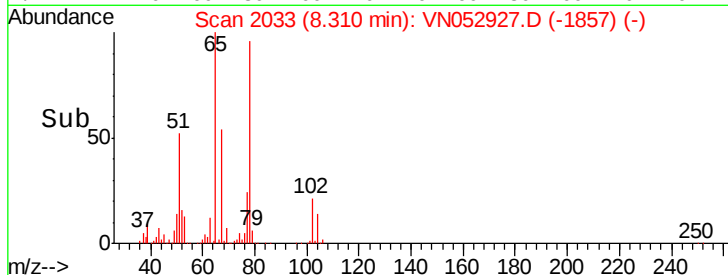
150000

100000

50000

0

Time-->



#41

Methacrylonitrile

Concen: 12.221 ug/l

RT: 7.41 min Scan# 1754

Delta R.T. 0.24 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Tgt Ion: 41 Resp: 62425

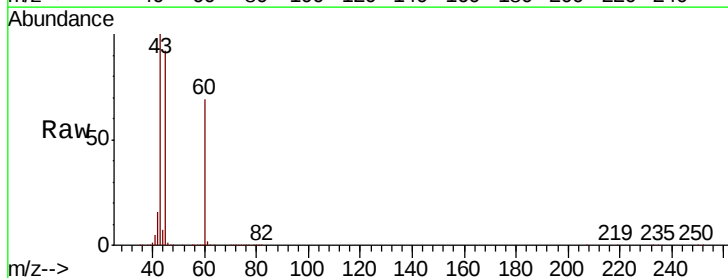
Ion Ratio Lower Upper

41 100

39 0.0 48.0 72.0#

67 0.0 70.3 105.5#

52 0.0 26.9 40.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO

7.41

50000

40000

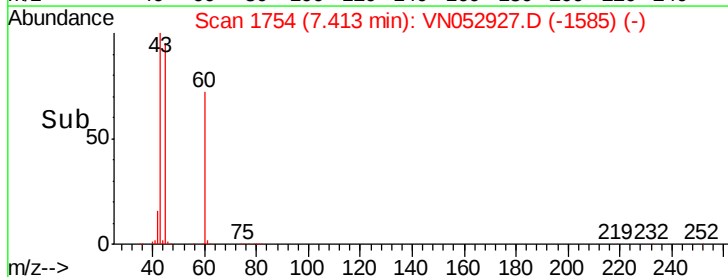
30000

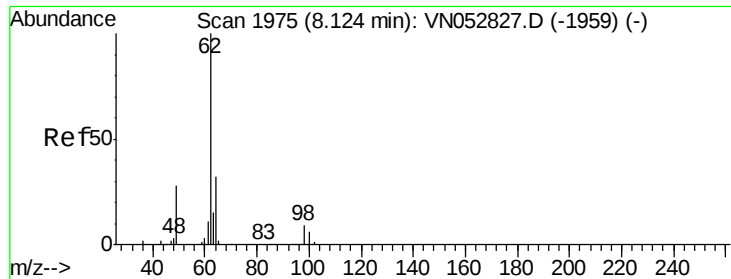
20000

10000

0

Time-->





#42

1,2-Dichloroethane

Concen: 0.407 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.18 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampled :

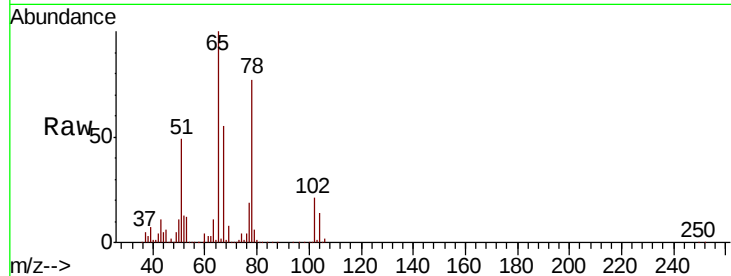
23701

Tot Ion: 62 Resp: 5643

Ion Ratio Lower Upper

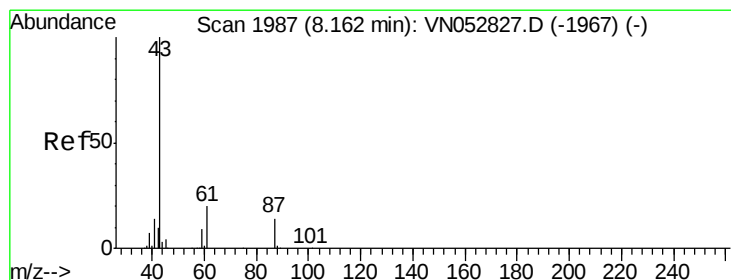
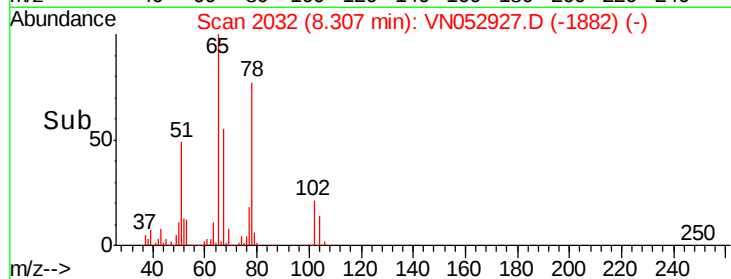
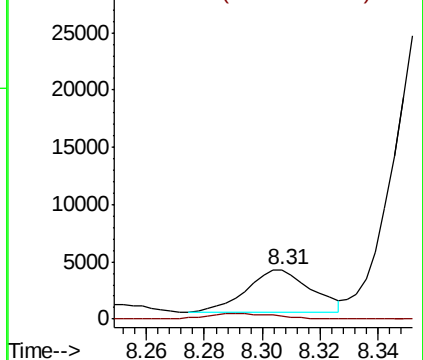
62 100

98 14.2 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#43

Isopropyl Acetate

Concen: 8.559 ug/l

RT: 8.36 min Scan# 2048

Delta R.T. 0.20 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

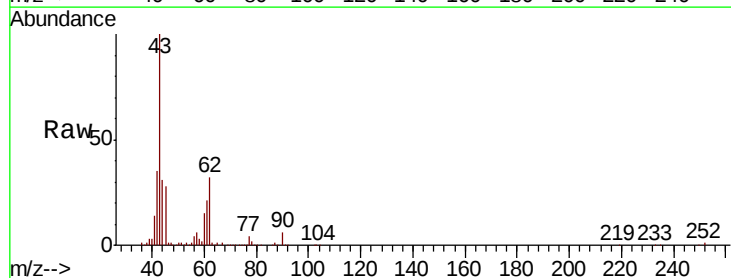
Tgt Ion: 43 Resp: 161775

Ion Ratio Lower Upper

43 100

61 24.7 22.9 34.3

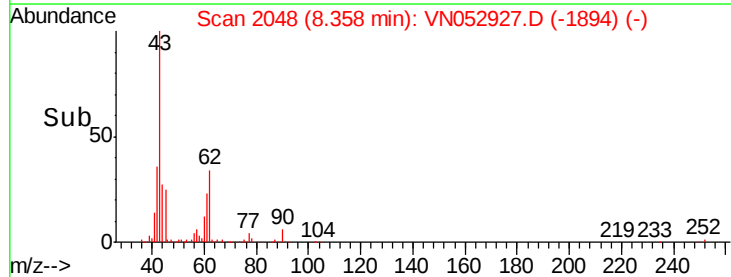
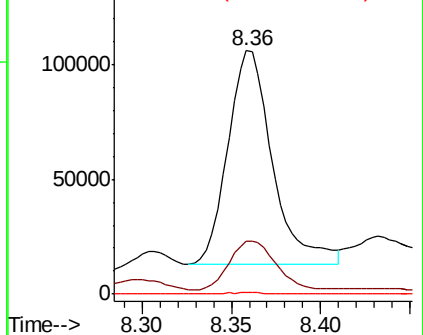
87 0.8 10.6 15.8#

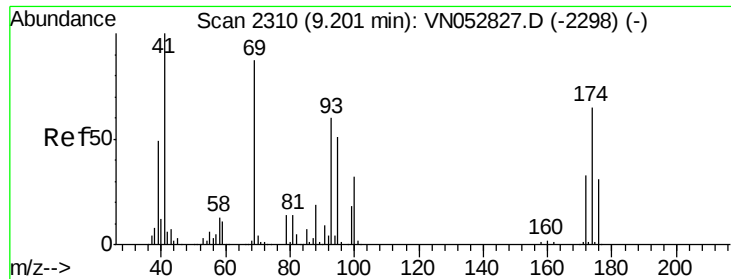


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

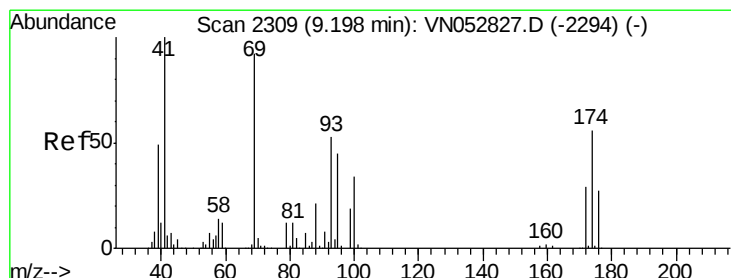
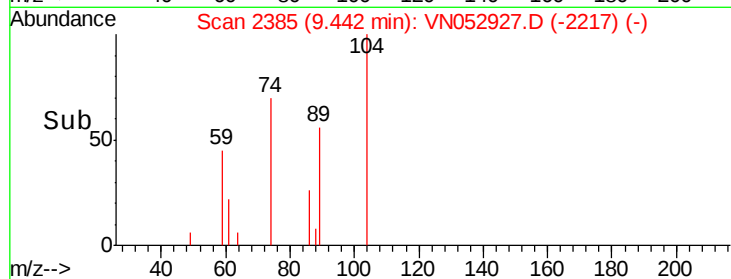
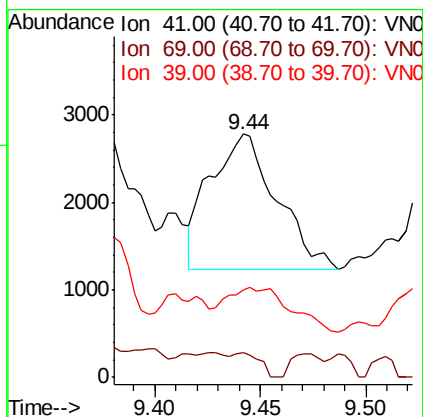
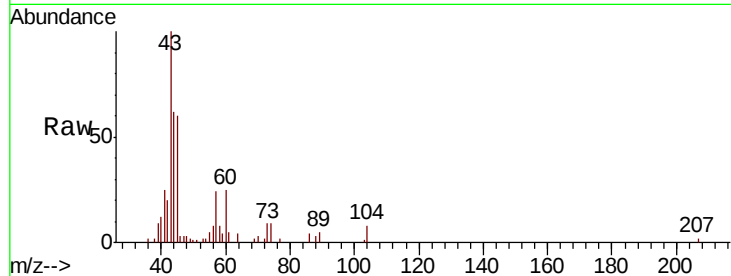




#48
Methvl methacrylate
Concen: 0.413 ug/l
RT: 9.44 min Scan# 2385
Delta R.T. 0.24 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

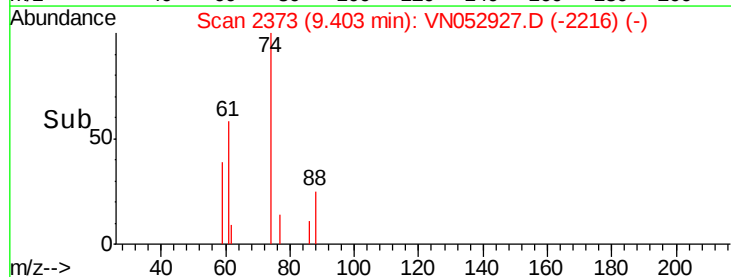
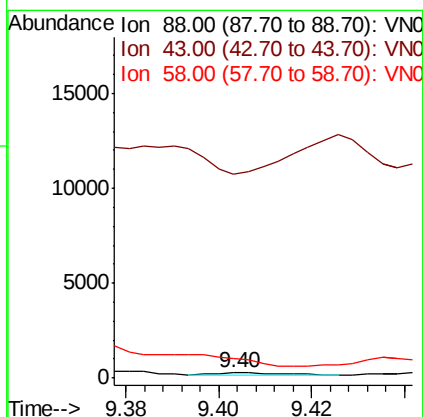
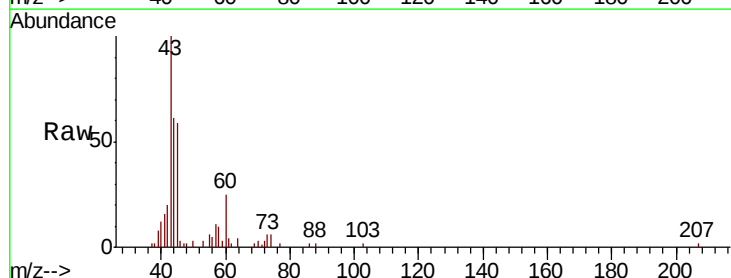
Instrument :
MSVOA_N
ClientSampled :
23701

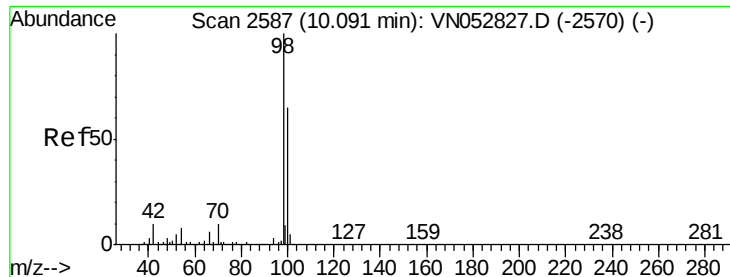
Tot Ion: 41 Resp: 3424
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 30.7 41.9 62.9#



#49
1,4-Dioxane
Concen: 1.360 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.21 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 88 Resp: 128
Ion Ratio Lower Upper
88 100
43 0.0 26.6 40.0#
58 0.0 58.4 87.6#





#50

Toluene-d8

Concen: 1.360 ug/l

RT: 10.19 min Scan# 2617

Delta R.T. 0.10 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampleId :

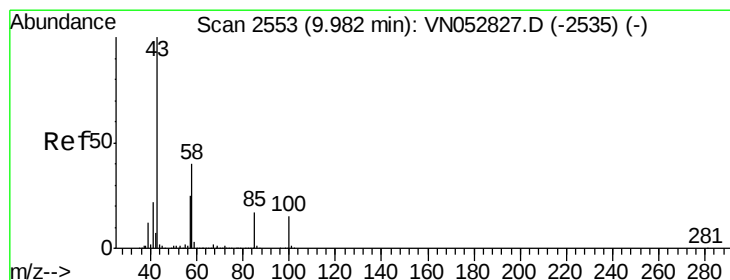
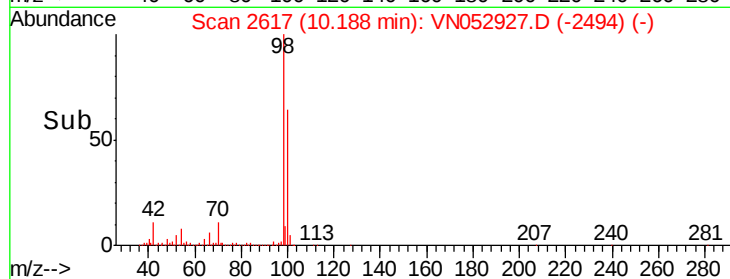
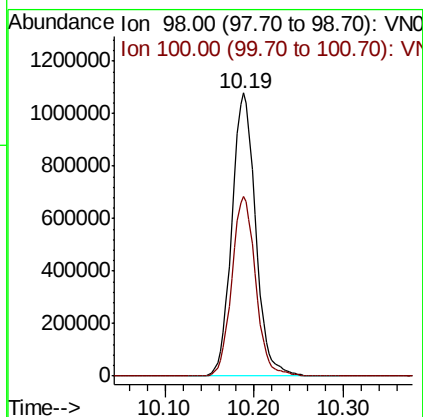
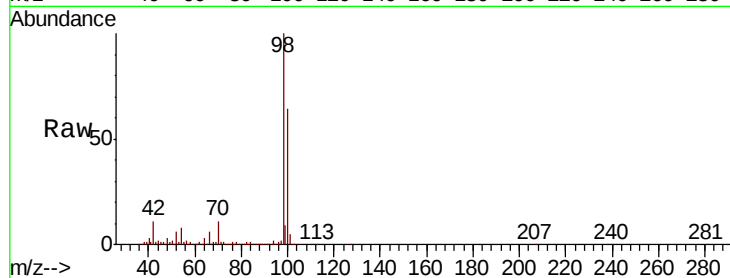
23701

Tot Ion: 98 Resp: 1986012

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 5.812 ug/l

RT: 10.35 min Scan# 2669

Delta R.T. 0.37 min

Lab File: VN052927.D

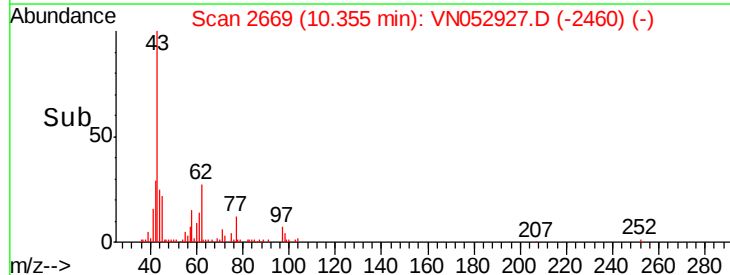
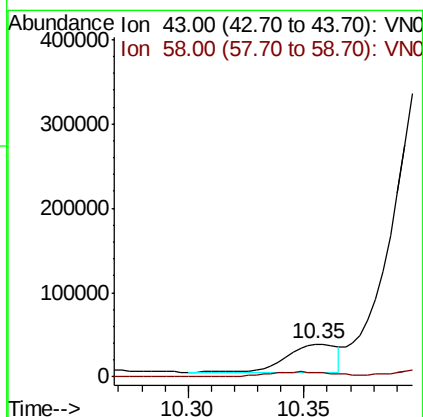
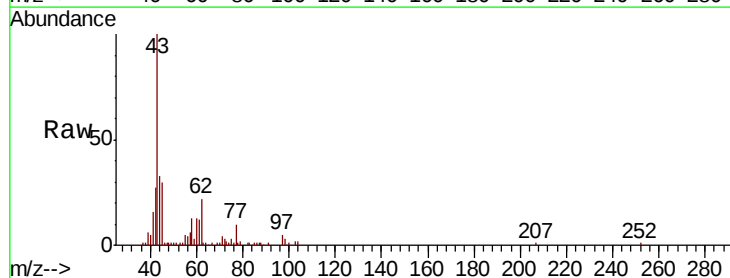
Acq: 17 Dec 2018 15:11

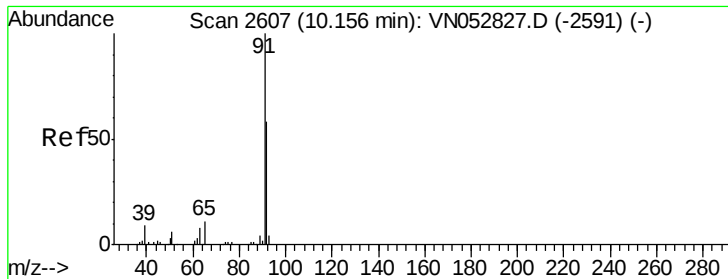
Tgt Ion: 43 Resp: 50370

Ion Ratio Lower Upper

43 100

58 22.1 32.2 48.4#





#52

Toluene

Concen: 43.810 ug/l

RT: 10.25 min Scan# 2636

Delta R.T. 0.09 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampled :

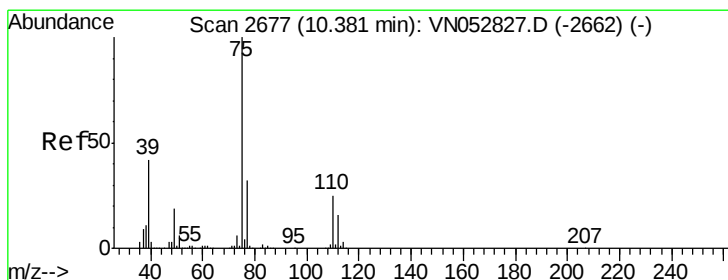
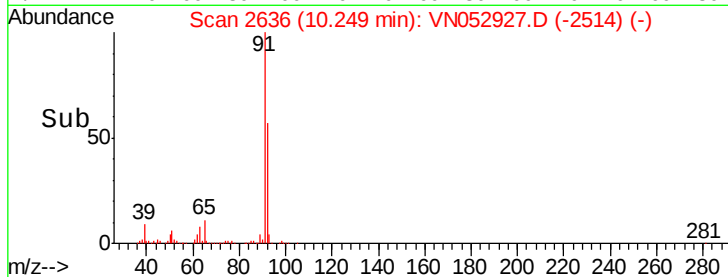
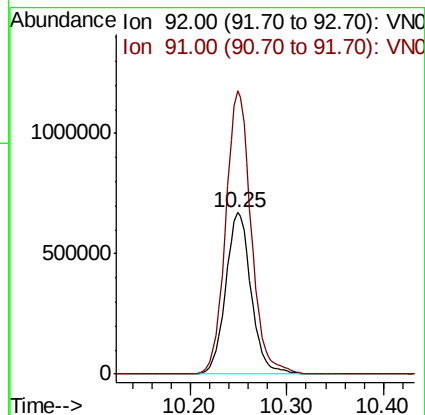
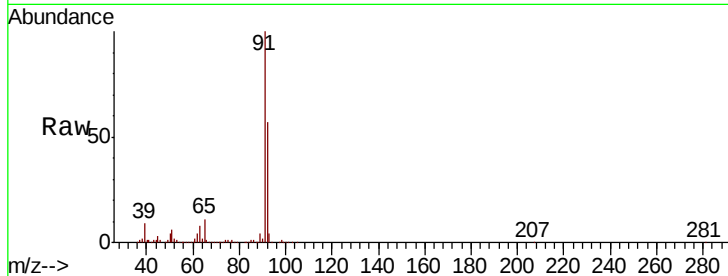
23701

Tot Ion: 92 Resp: 1222099

Ion Ratio Lower Upper

92 100

91 175.5 139.8 209.6



#53

t-1,3-Dichloropropene

Concen: 0.313 ug/l

RT: 10.61 min Scan# 2749

Delta R.T. 0.23 min

Lab File: VN052927.D

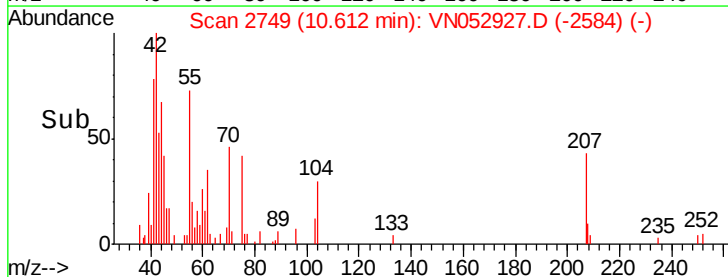
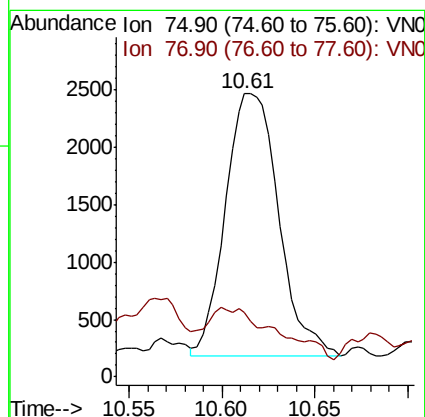
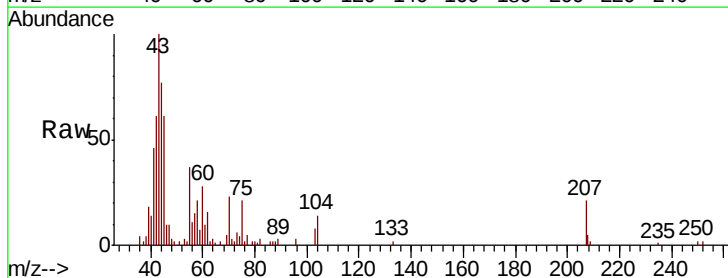
Acq: 17 Dec 2018 15:11

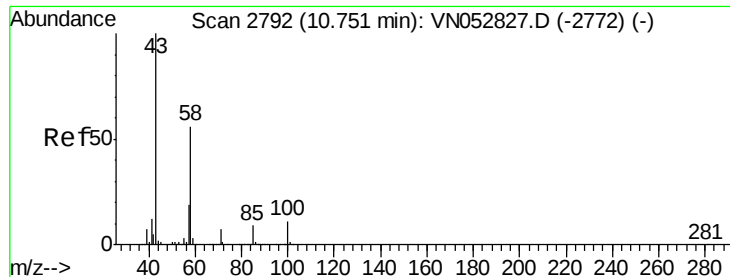
Tgt Ion: 75 Resp: 4568

Ion Ratio Lower Upper

75 100

77 15.6 25.6 38.4#

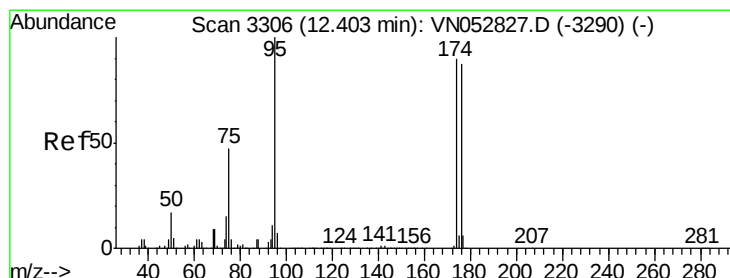
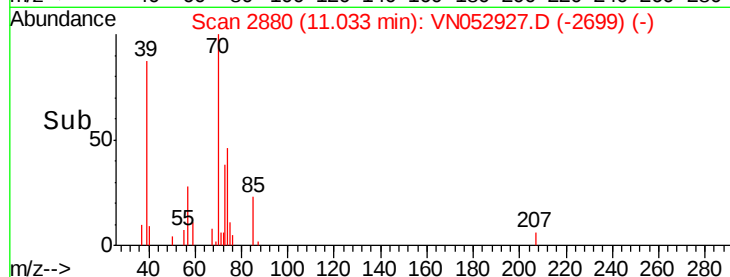
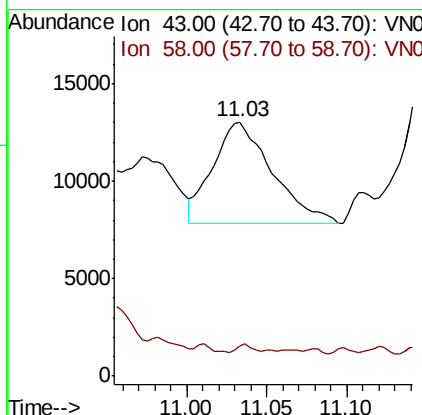
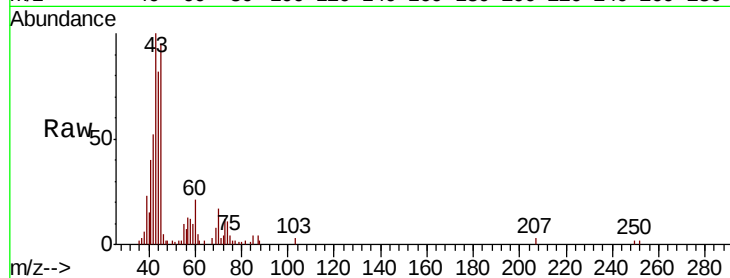




#59
2-Hexanone
Concen: 2.242 ug/l
RT: 11.03 min Scan# 2880
Delta R.T. 0.28 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

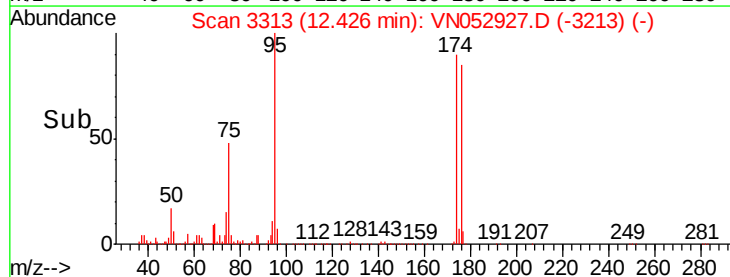
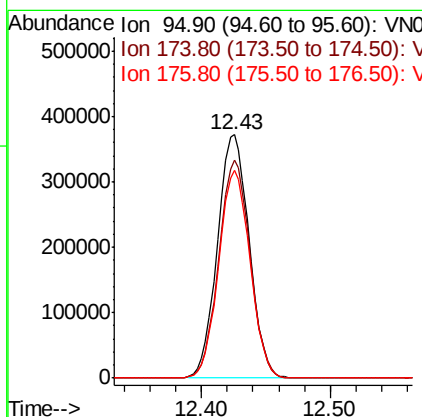
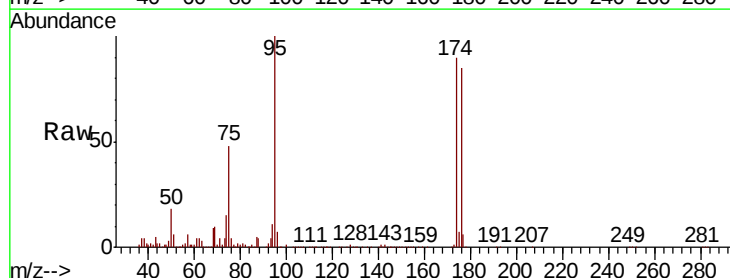
Instrument :
MSVOA_N
ClientSampleId :
23701

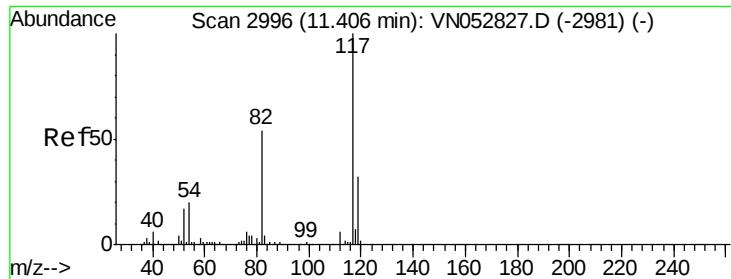
Tot Ion: 43 Resp: 13316
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.43 min Scan# 3313
Delta R.T. 0.02 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 95 Resp: 632285
Ion Ratio Lower Upper
95 100
174 88.5 0.0 178.8
176 84.6 0.0 173.8

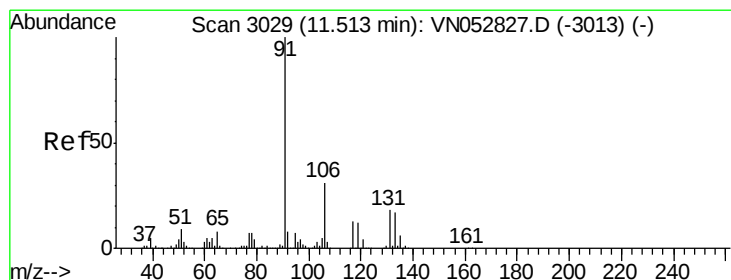
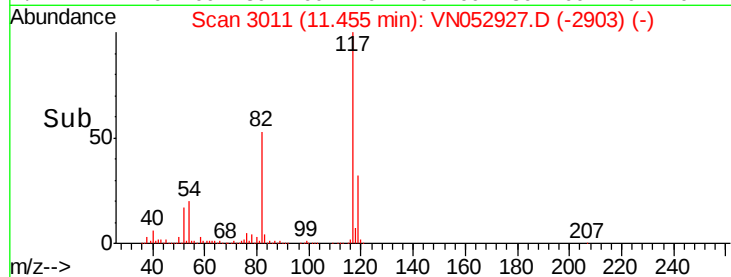
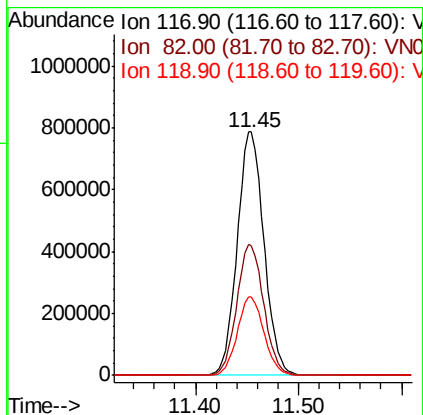
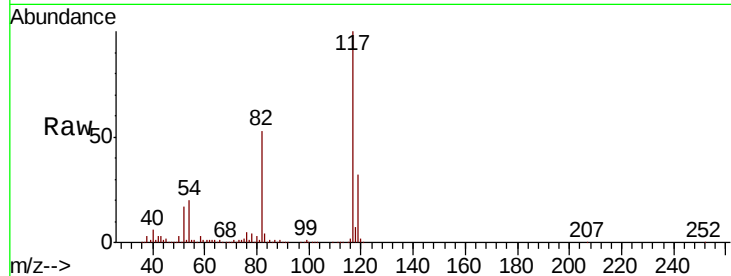




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.45 min Scan# 3011
Delta R.T. 0.05 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

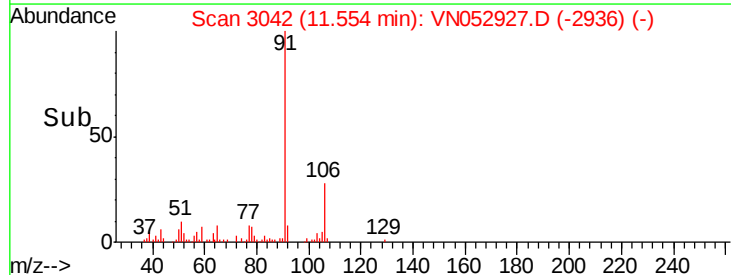
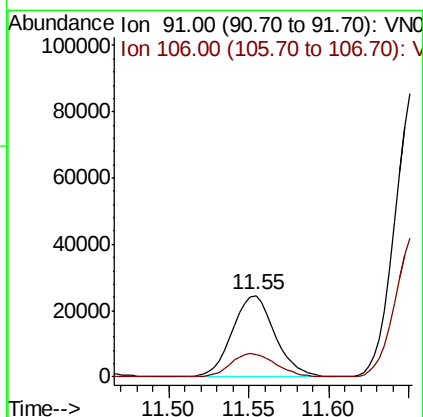
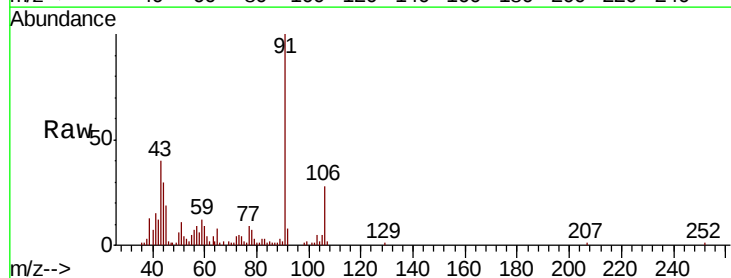
Instrument :
MSVOA_N
ClientSampled :
23701

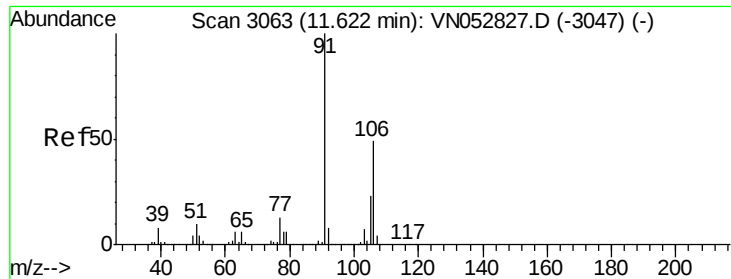
Tot Ion:117 Resp: 1418330
Ion Ratio Lower Upper
117 100
82 53.4 42.8 64.2
119 32.0 25.5 38.3



#67
Ethyl Benzene
Concen: 0.886 ug/l
RT: 11.55 min Scan# 3042
Delta R.T. 0.04 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 91 Resp: 44764
Ion Ratio Lower Upper
91 100
106 27.6 24.9 37.3





#68

m/p-Xylenes

Concen: 4.752 ug/l

RT: 11.66 min Scan# 3074

Delta R.T. 0.04 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

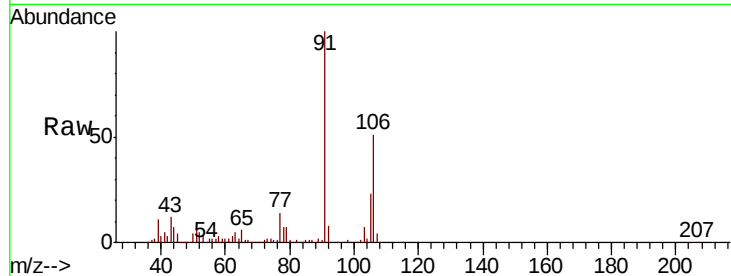
ClientSampled :
23701

Tot Ion:106 Resp: 90157

Ion Ratio Lower Upper

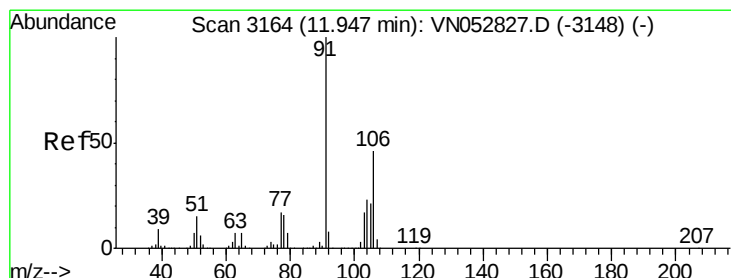
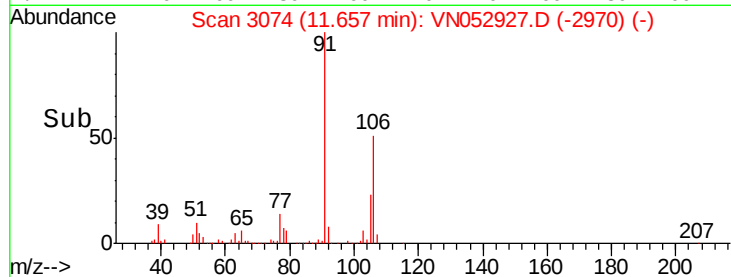
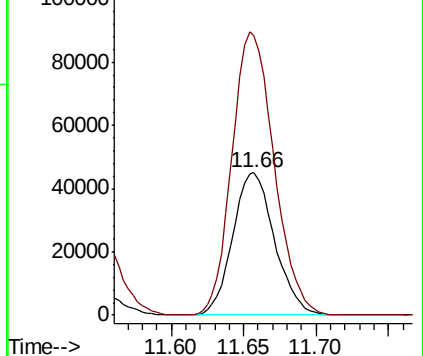
106 100

91 200.8 162.2 243.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#69

o-Xylene

Concen: 1.791 ug/l

RT: 11.98 min Scan# 3174

Delta R.T. 0.03 min

Lab File: VN052927.D

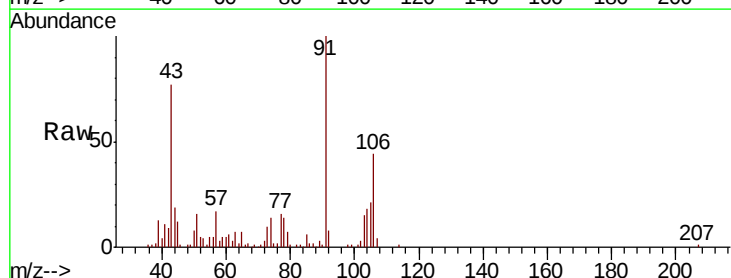
Acq: 17 Dec 2018 15:11

Tgt Ion:106 Resp: 33176

Ion Ratio Lower Upper

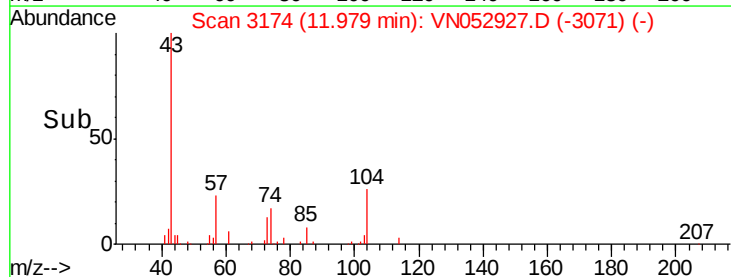
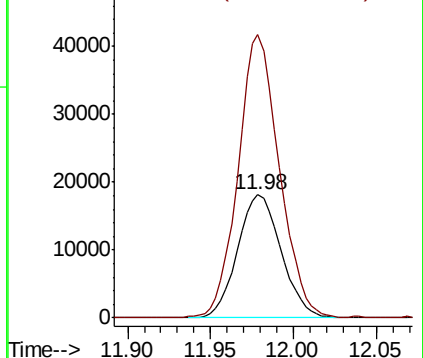
106 100

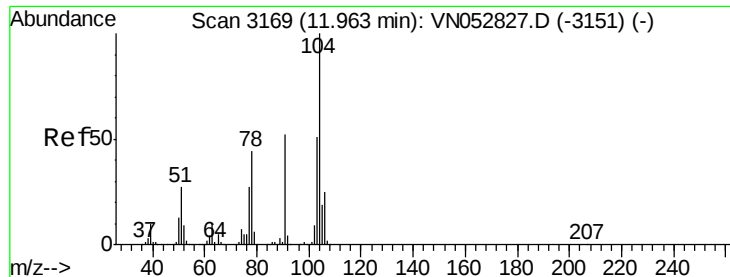
91 217.3 106.6 319.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#70

Stvrene

Concen: 1.157 ug/l

RT: 11.99 min Scan# 3179

Delta R.T. 0.03 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampled :
23701

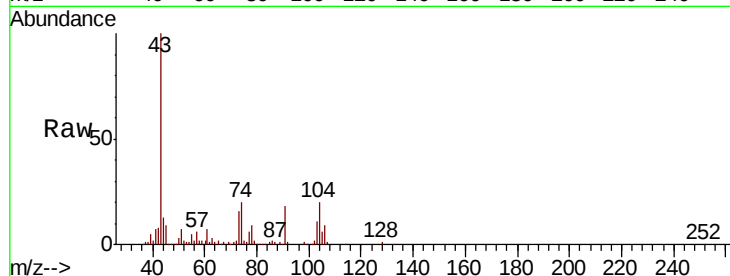
Tot Ion:104 Resp: 34464

Ion Ratio Lower Upper

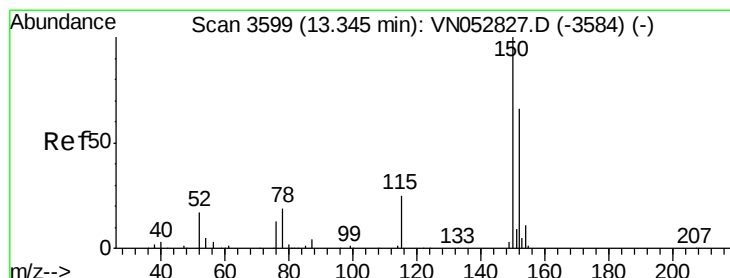
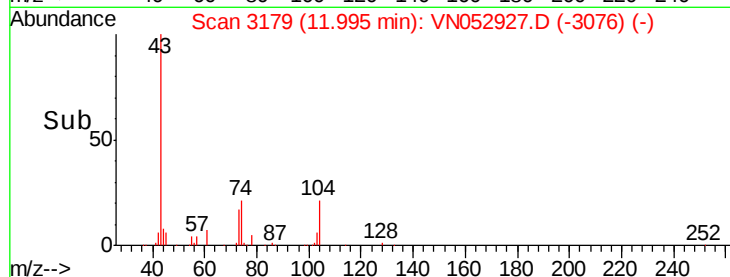
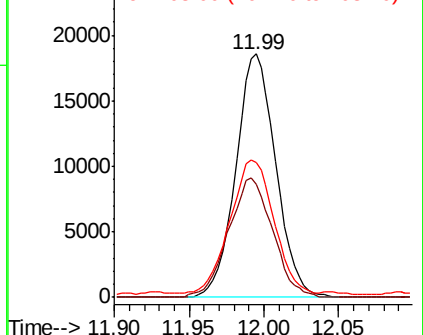
104 100

78 54.1 38.9 58.3

103 59.8 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3602

Delta R.T. 0.01 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

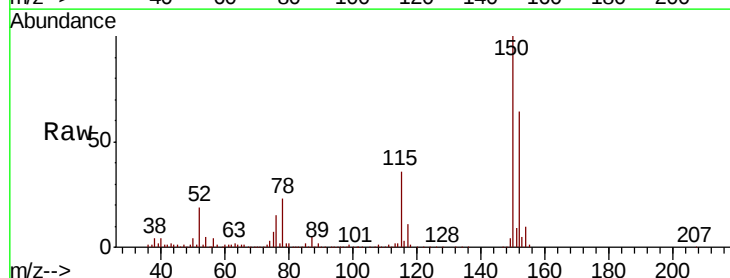
Tgt Ion:152 Resp: 591127

Ion Ratio Lower Upper

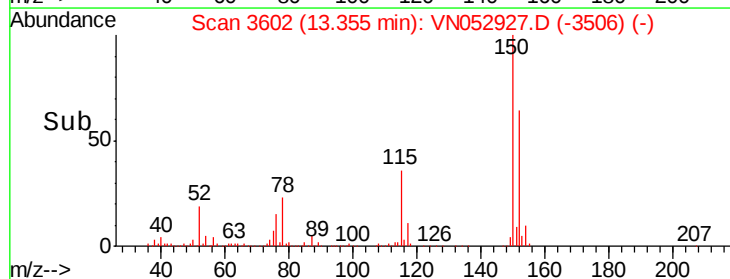
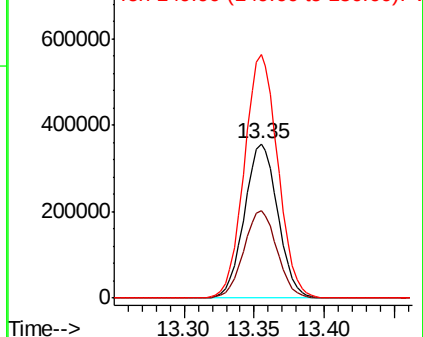
152 100

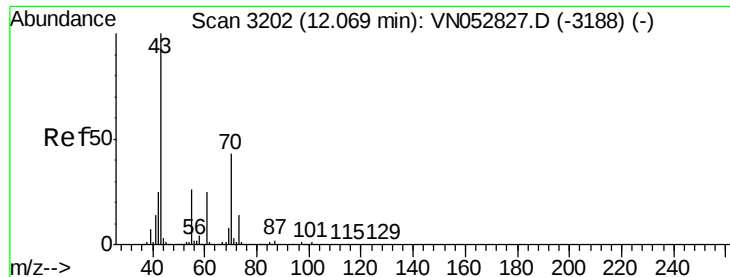
115 56.5 28.3 85.0

150 158.9 0.0 347.8



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

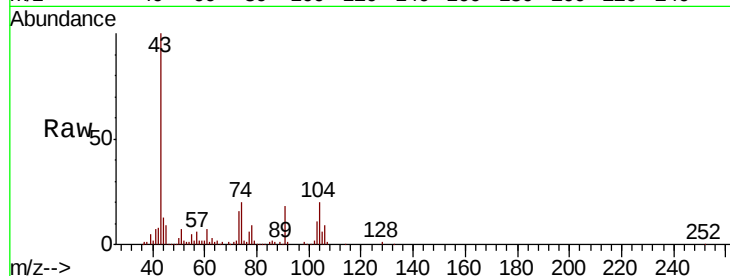




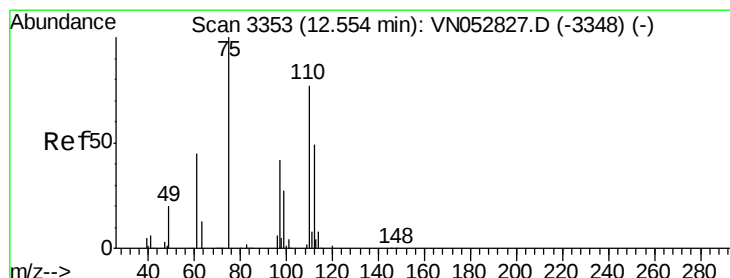
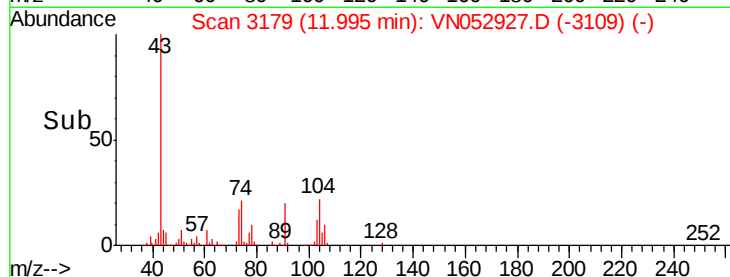
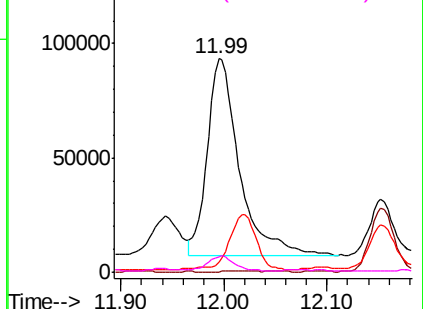
#74
N-amvl acetate
Concen: 15.333 ug/l
RT: 11.99 min Scan# 3179
Delta R.T. -0.07 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

Instrument :
MSVOA_N
ClientSampled :
23701

Tot Ion: 43 Resp: 185785
Ion Ratio Lower Upper
43 100
70 0.0 34.2 51.4#
55 1.1 20.3 30.5#
61 6.0 20.0 30.0#

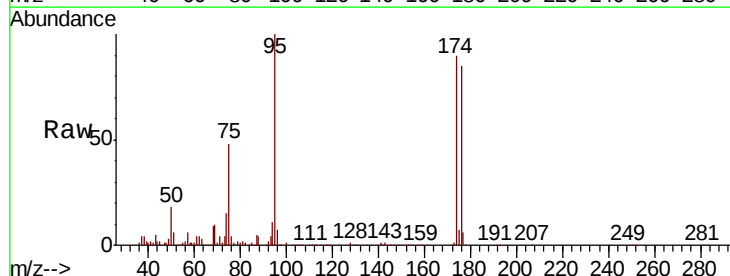


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO

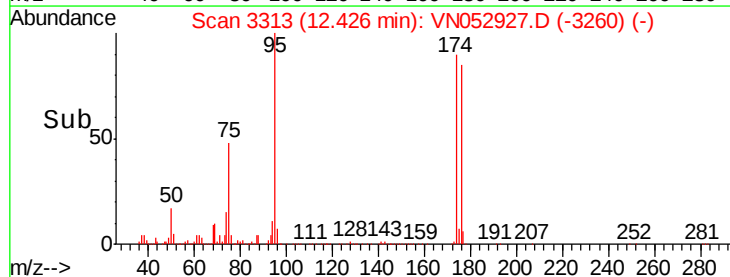
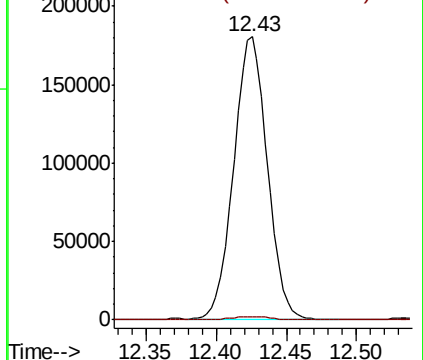


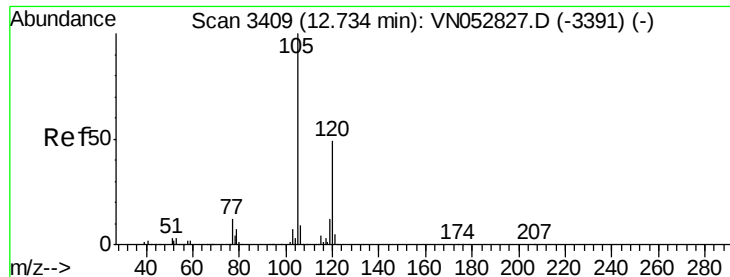
#76
1,2,3-Trichloropropane
Concen: 34.456 ug/l
RT: 12.43 min Scan# 3313
Delta R.T. -0.13 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 75 Resp: 300503
Ion Ratio Lower Upper
75 100
77 1.4 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: 0.453 ug/l

RT: 12.75 min Scan# 3414

Delta R.T. 0.02 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_N

ClientSampled :

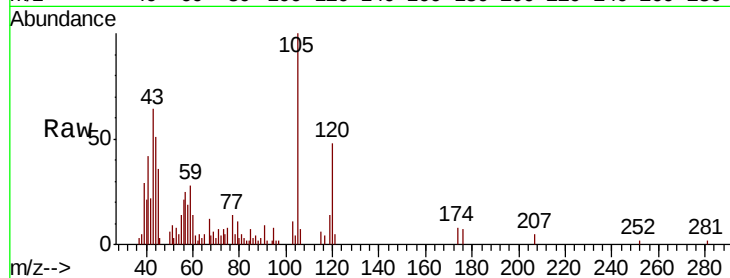
23701

Tot Ion:105 Resp: 16128

Ion Ratio Lower Upper

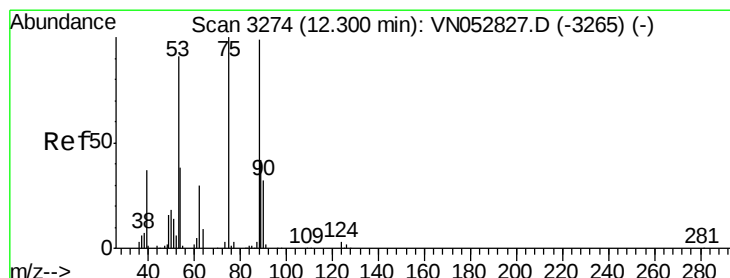
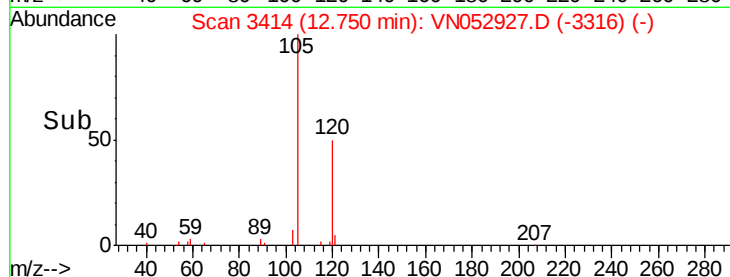
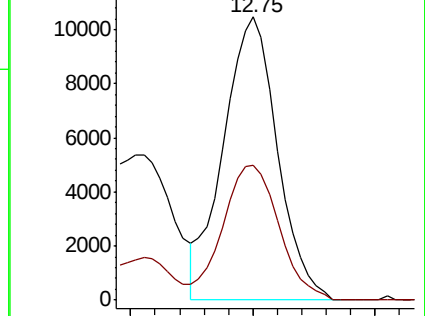
105 100

120 49.3 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 110.719 ug/l

RT: 12.43 min Scan# 3313

Delta R.T. 0.13 min

Lab File: VN052927.D

Acq: 17 Dec 2018 15:11

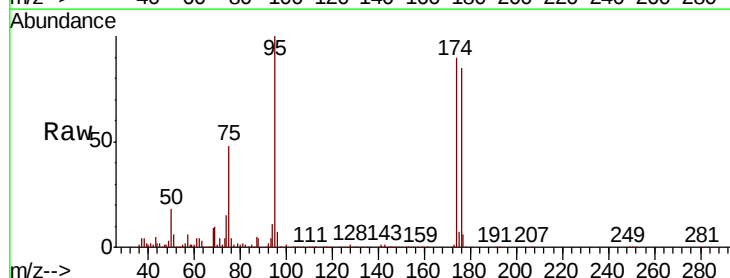
Tgt Ion: 75 Resp: 300585

Ion Ratio Lower Upper

75 100

53 0.6 74.7 112.1#

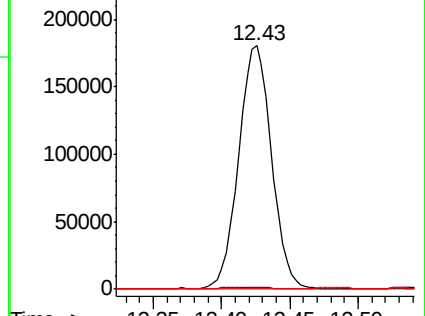
89 0.2 36.1 54.1#

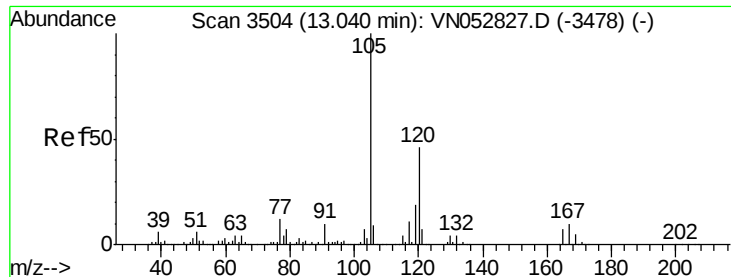


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

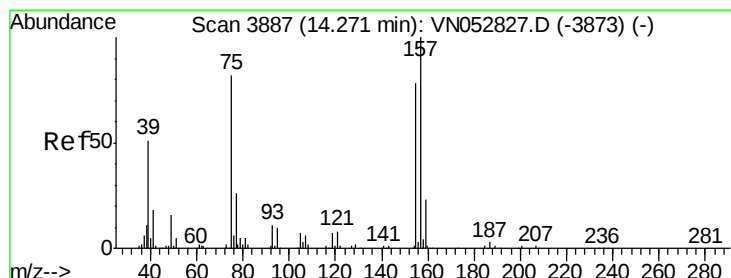
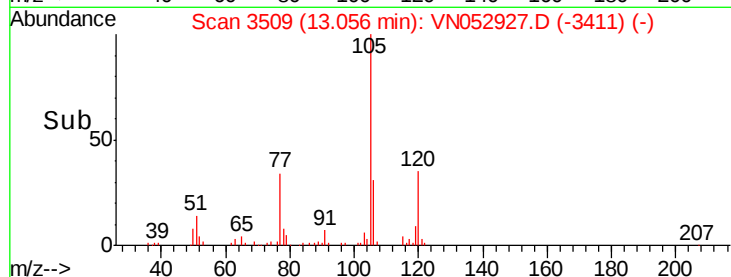
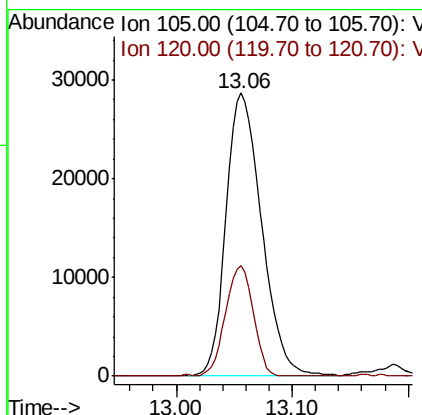
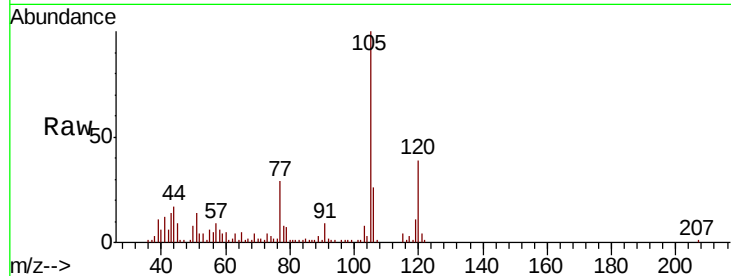




#84
 1,2,4-Trimethylbenzene
 Concen: 1.690 ug/l
 RT: 13.06 min Scan# 3509
 Delta R.T. 0.02 min
 Lab File: VN052927.D
 Acq: 17 Dec 2018 15:11

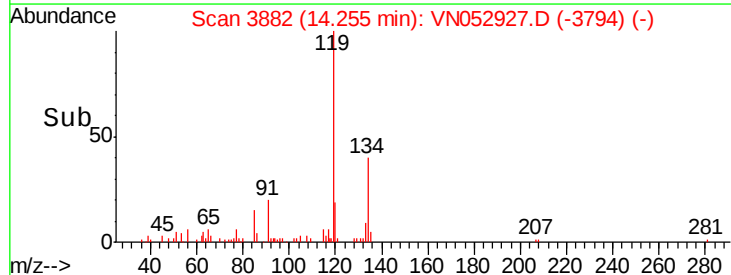
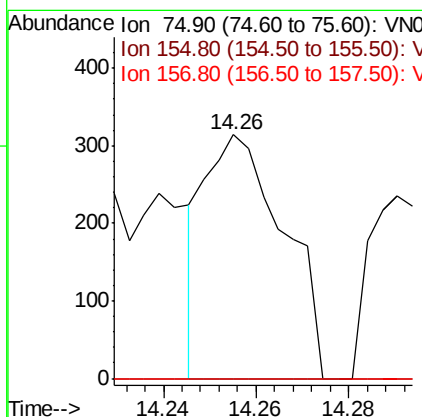
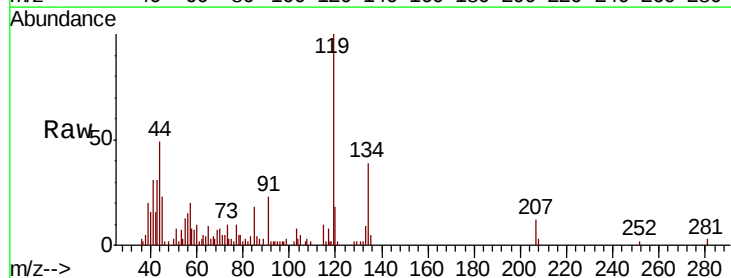
Instrument :
 MSVOA_N
 ClientSampleId :
 23701

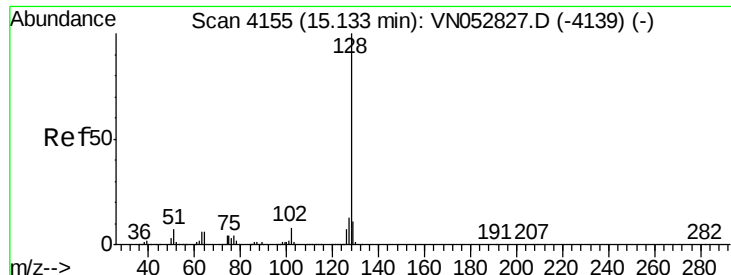
Tot Ion:105 Resp: 60954
 Ion Ratio Lower Upper
 105 100
 120 30.2 22.9 68.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.249 ug/l
 RT: 14.26 min Scan# 3882
 Delta R.T. -0.02 min
 Lab File: VN052927.D
 Acq: 17 Dec 2018 15:11

Tgt Ion: 75 Resp: 371
 Ion Ratio Lower Upper
 75 100
 155 0.0 48.2 144.6#
 157 0.0 61.2 183.5#

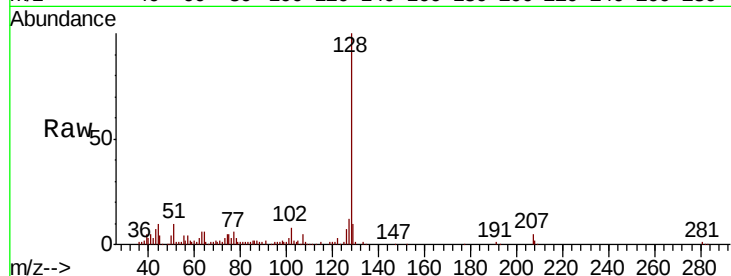




#95
Naphthalene
Concen: 4.005 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052927.D
Acq: 17 Dec 2018 15:11

Instrument :
MSVOA_N
ClientSampleId :
23701

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	11.9	8.6	13.0



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

