

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092018\
 Data File : VN051353.D
 Acq On : 20 Sep 2018 20:58
 Operator : MD\SY
 Sample : PB113045ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113045ZHE#04

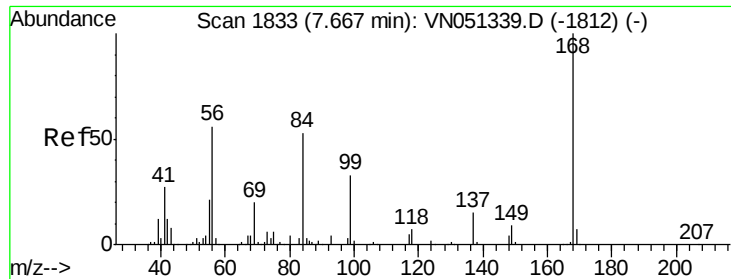
Quant Time: Sep 21 06:46:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 03:27:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	796043	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1184809	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	999087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	390400	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	451531	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
35) Dibromofluoromethane	7.59	113	437690	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
50) Toluene-d8	10.09	98	1596718	43.38	ug/l	0.00
Spiked Amount			Recovery	=	86.76%	
62) 4-Bromofluorobenzene	12.40	95	439203	36.68	ug/l	0.00
Spiked Amount			Recovery	=	73.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1385	0.21	ug/l	94
16) Acetone	3.82	43	27738	15.65	ug/l	98
18) Methyl Acetate	4.33	43	12438	2.04	ug/l	94
20) Methylene Chloride	4.56	84	38133	4.30	ug/l	93
25) 2-Butanone	6.84	43	5396	2.19	ug/l	96
29) Tetrahydrofuran	7.22	42	899	0.58	ug/l #	60
31) Cyclohexane	7.67	56	12313	0.89	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	48401	3.99	ug/l #	48
37) Ethyl Acetate	6.84	43	5396	0.90	ug/l #	64
38) Carbon Tetrachloride	7.67	117	65898	5.03	ug/l #	16
43) Isopropyl Acetate	8.17	43	306940	29.21	ug/l #	92
48) Methyl methacrylate	9.18	41	6954	1.30	ug/l #	15
51) 4-Methyl-2-Pentanone	9.98	43	3613	0.64	ug/l #	85
59) 2-Hexanone	10.77	43	17855	4.69	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	201164	35.68	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4750	0.20	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	201164	123.53	ug/l #	14

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

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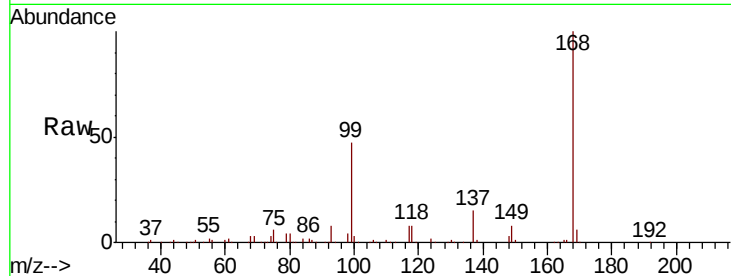
PB113045ZHE#04

Tot Ion:168 Resp: 796043

Ion Ratio Lower Upper

168 100

99 46.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

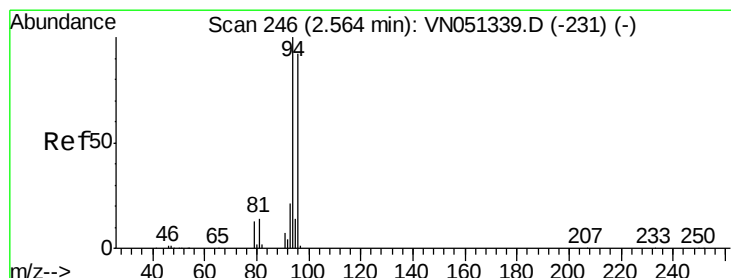
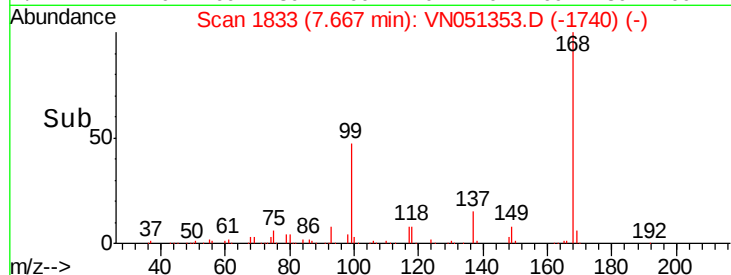
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.21 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051353.D

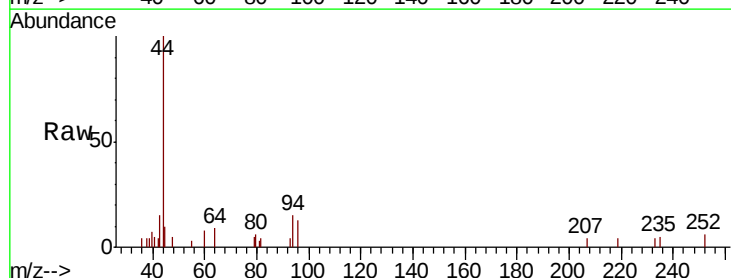
Acq: 20 Sep 2018 20:58

Tgt Ion: 94 Resp: 1385

Ion Ratio Lower Upper

94 100

96 86.8 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

800

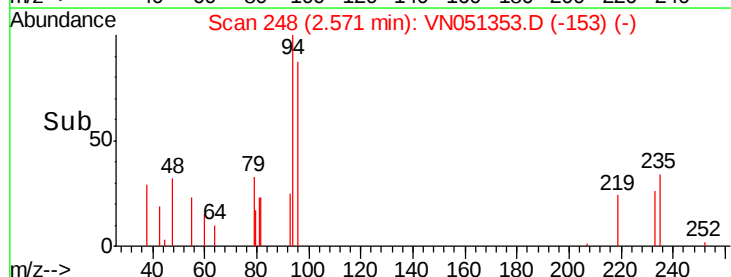
600

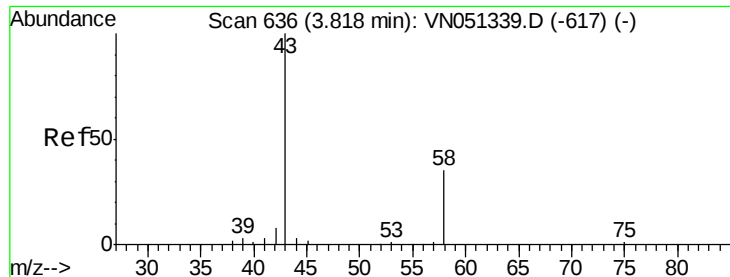
400

200

0

Time--> 2.55 2.60





#16

Acetone

Concen: 15.65 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

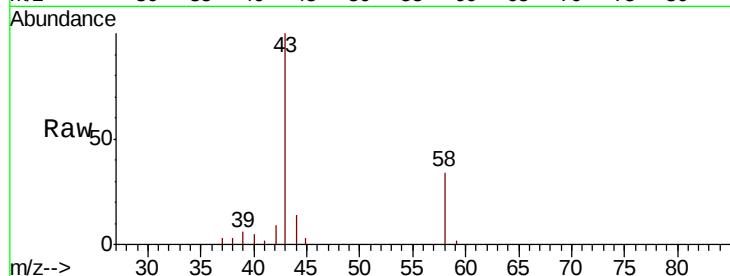
PB113045ZHE#04

Tot Ion: 43 Resp: 27738

Ion Ratio Lower Upper

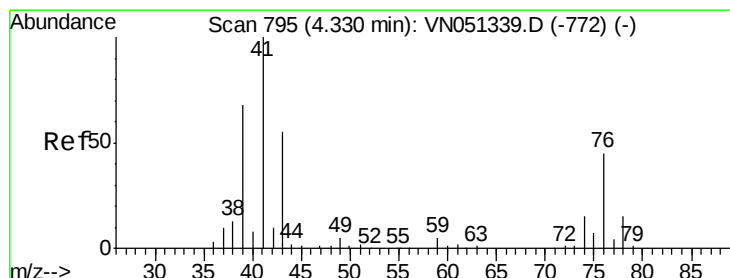
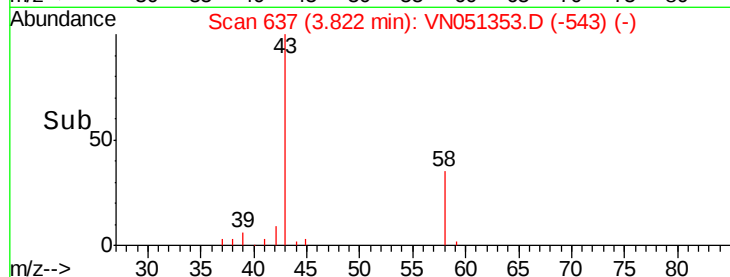
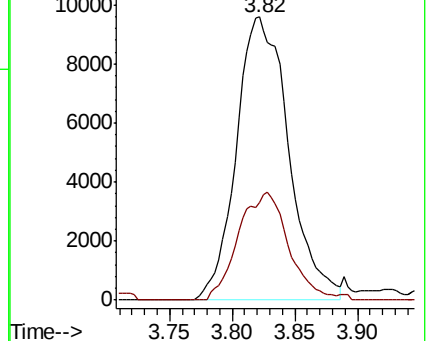
43 100

58 34.4 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.04 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN051353.D

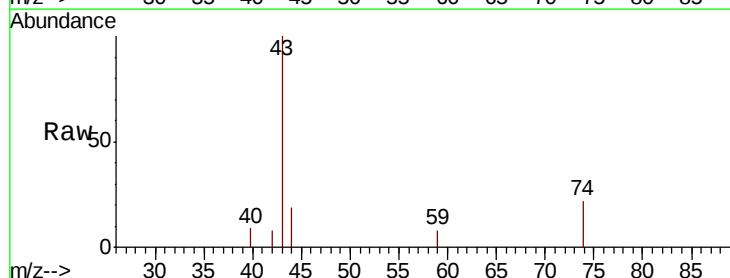
Acq: 20 Sep 2018 20:58

Tgt Ion: 43 Resp: 12438

Ion Ratio Lower Upper

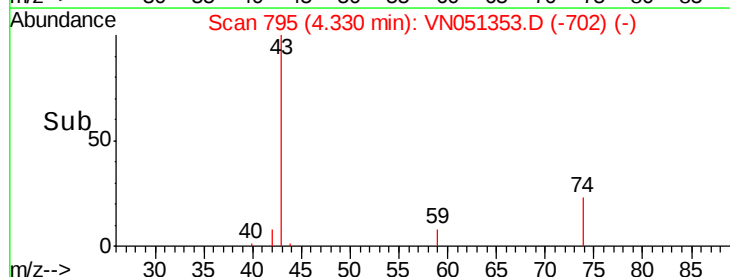
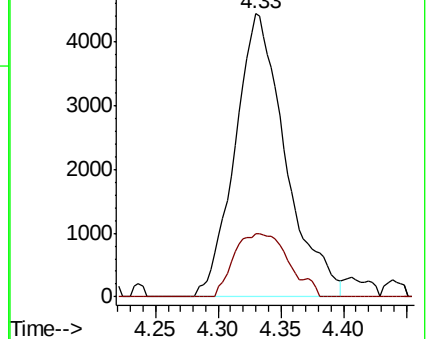
43 100

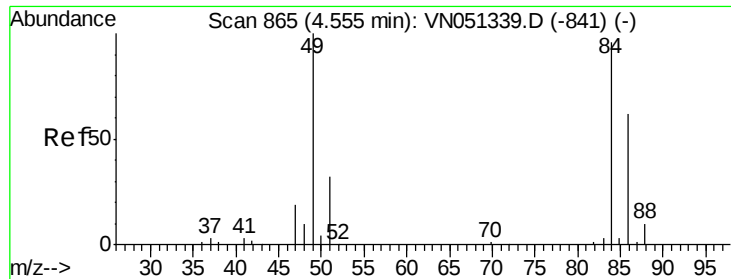
74 24.1 21.7 32.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

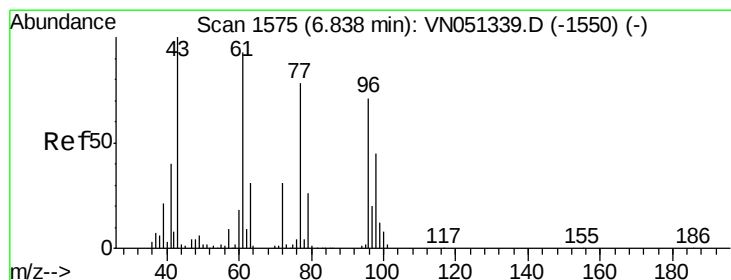
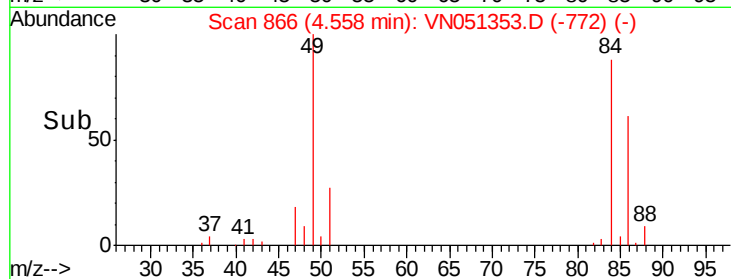
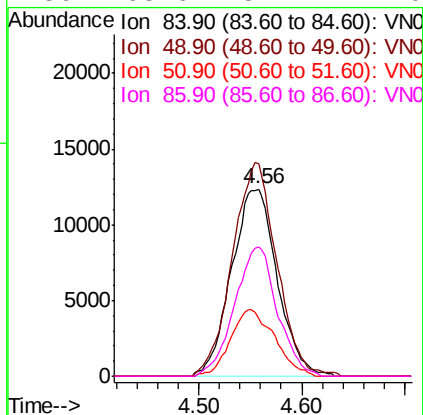
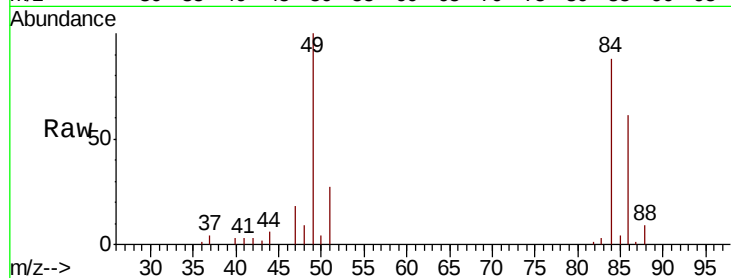




#20
Methvlene Chloride
Concen: 4.30 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051353.D
Acq: 20 Sep 2018 20:58

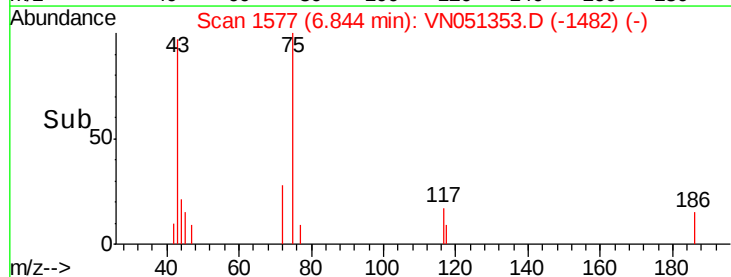
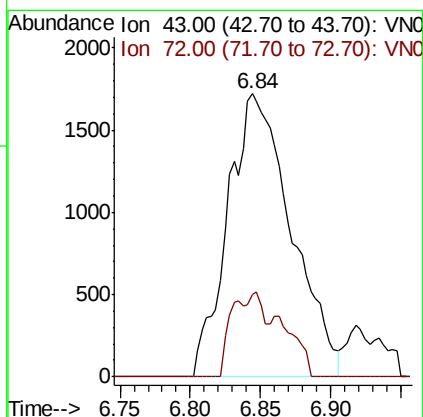
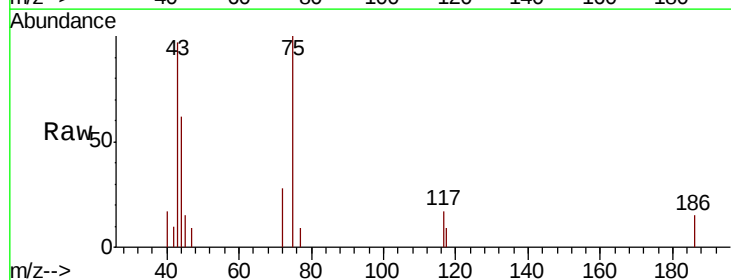
Instrument :
MSVOA_N
ClientSampleId :
PB113045ZHE#04

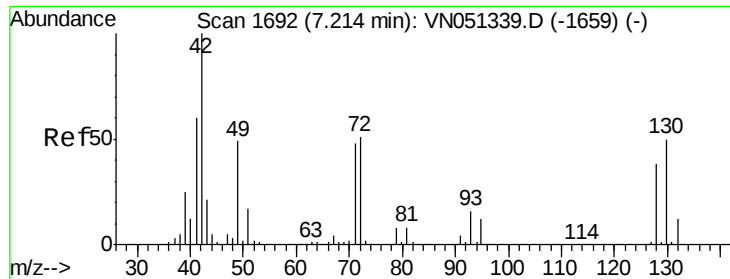
Tot Ion: 84 Resp: 38133
Ion Ratio Lower Upper
84 100
49 113.3 83.2 124.8
51 31.0 26.4 39.6
86 68.6 51.4 77.0



#25
2-Butanone
Concen: 2.19 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051353.D
Acq: 20 Sep 2018 20:58

Tgt Ion: 43 Resp: 5396
Ion Ratio Lower Upper
43 100
72 29.0 24.7 37.1





#29

Tetrahydrofuran

Concen: 0.58 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#04

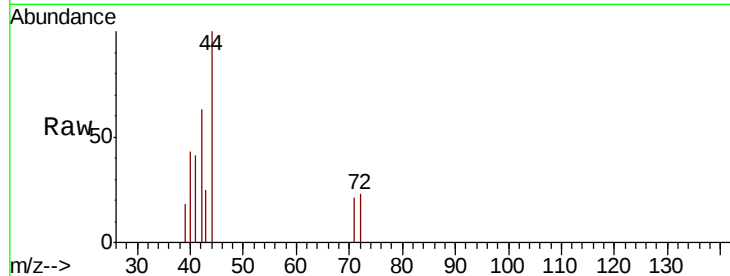
Tot Ion: 42 Resp: 899

Ion Ratio Lower Upper

42 100

72 20.1 39.0 58.4#

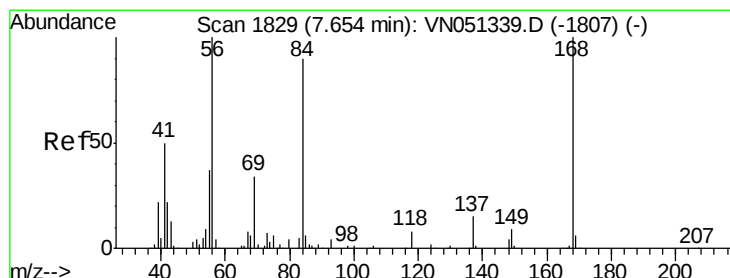
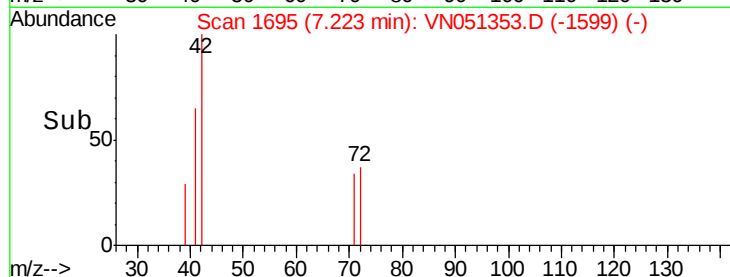
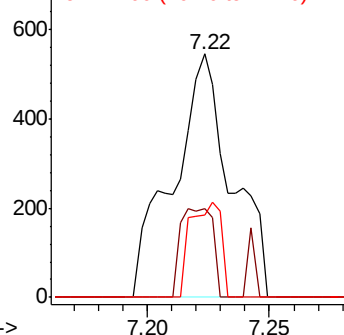
71 20.5 36.5 54.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.89 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

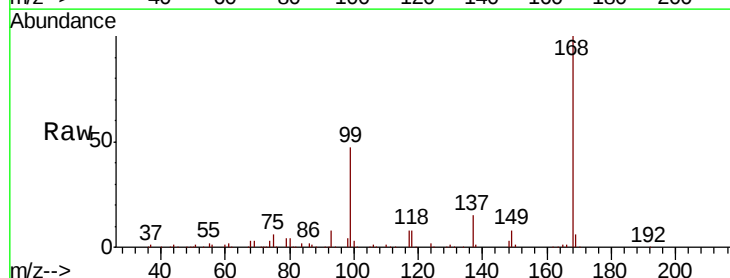
Tgt Ion: 56 Resp: 12313

Ion Ratio Lower Upper

56 100

69 199.8 27.3 40.9#

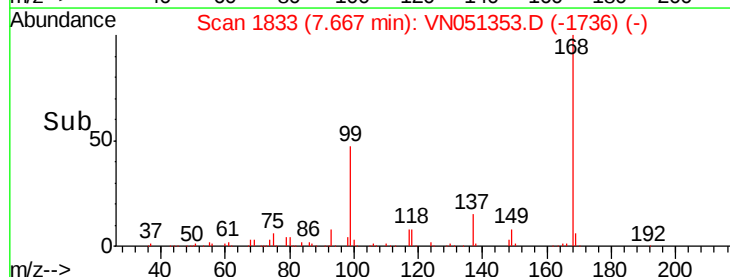
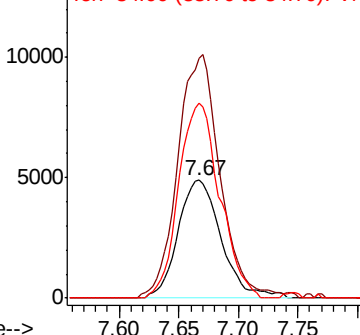
84 165.1 72.2 108.2#

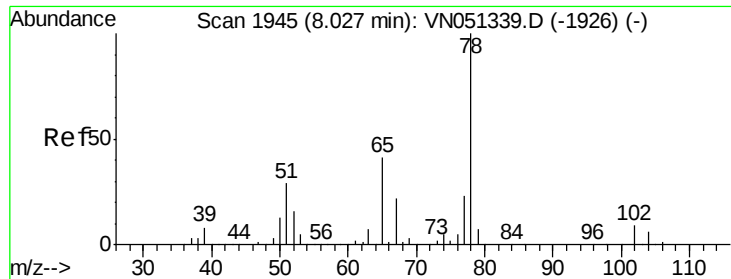


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

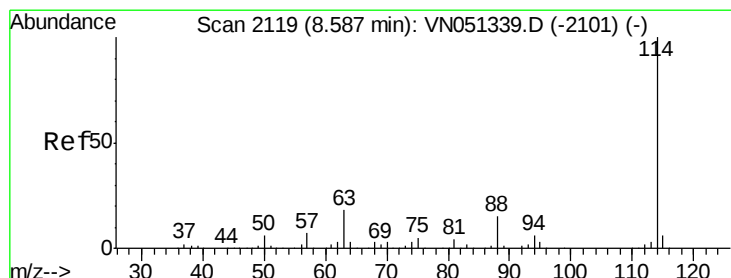
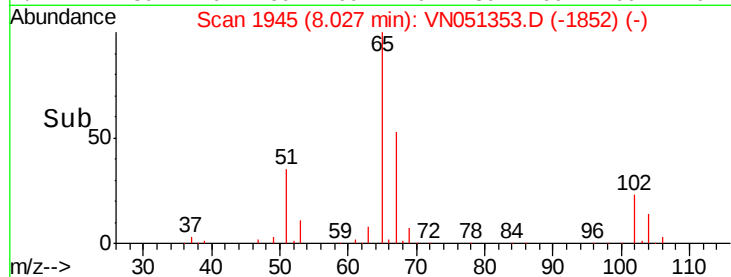
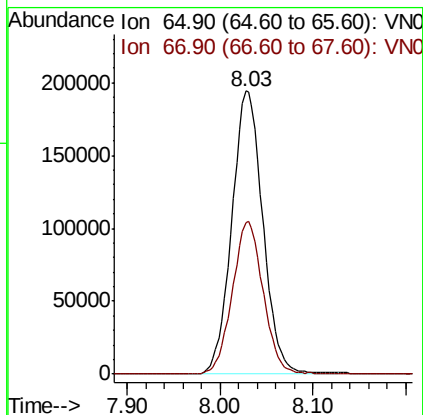
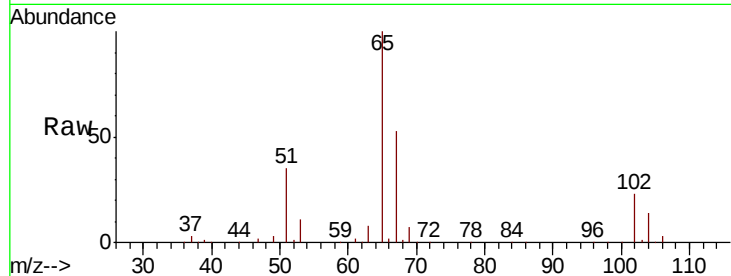




#33
 1,2-Dichloroethane-d4
 Concen: 52.33 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051353.D
 Acq: 20 Sep 2018 20:58

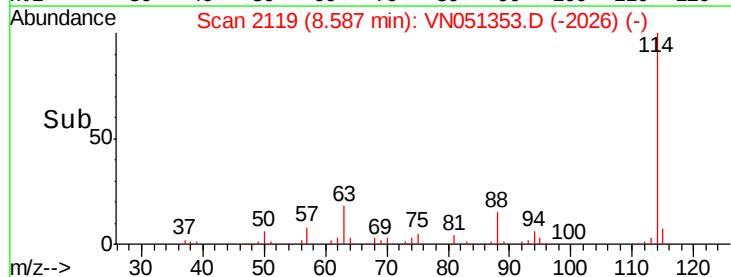
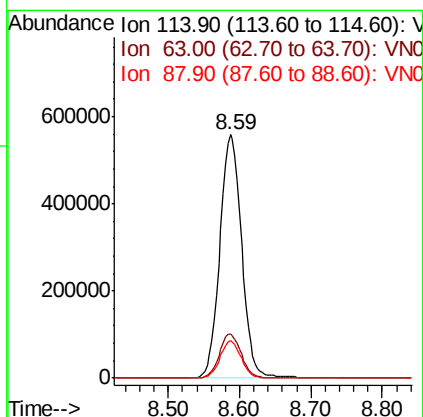
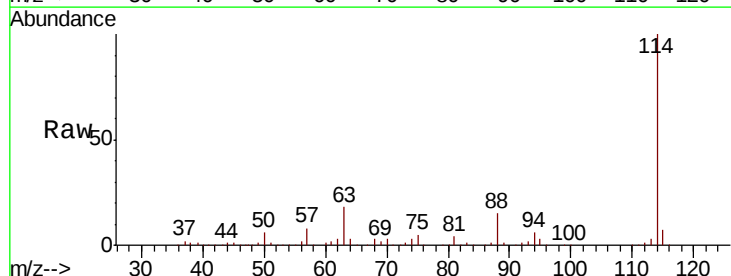
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113045ZHE#04

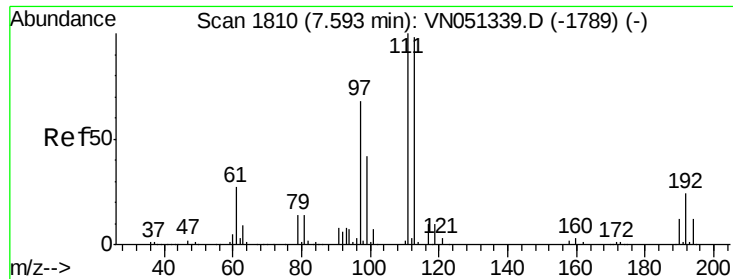
Tot Ion: 65 Resp: 451531
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051353.D
 Acq: 20 Sep 2018 20:58

Tgt Ion: 114 Resp: 1184809
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 36.6
 88 15.4 0.0 29.8

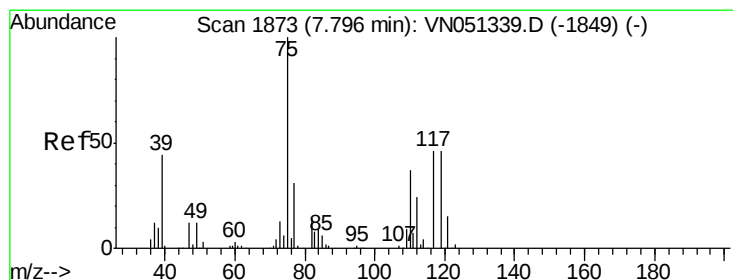
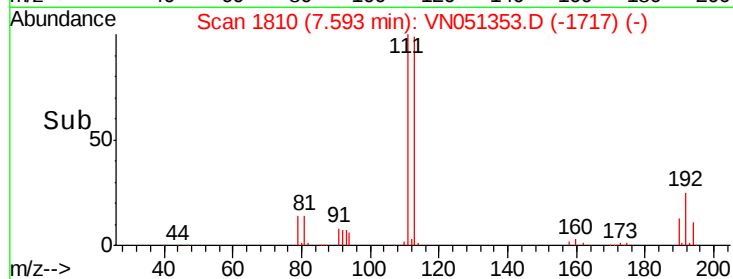
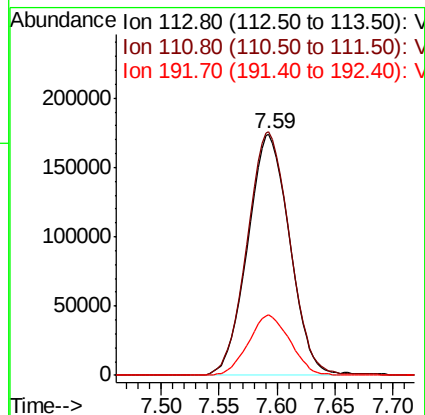
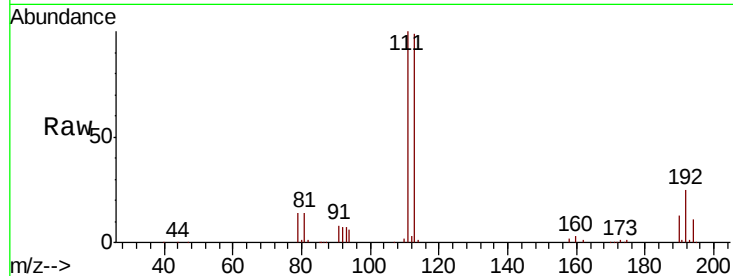




#35
 Dibromofluoromethane
 Concen: 45.71 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051353.D
 Acq: 20 Sep 2018 20:58

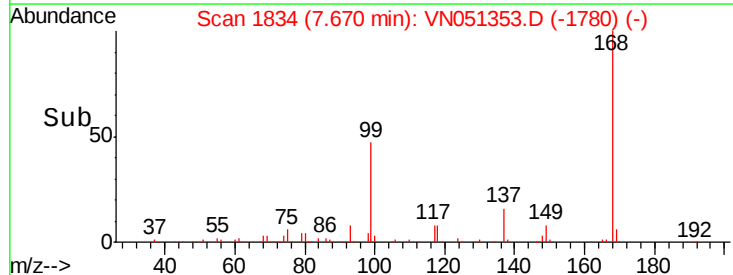
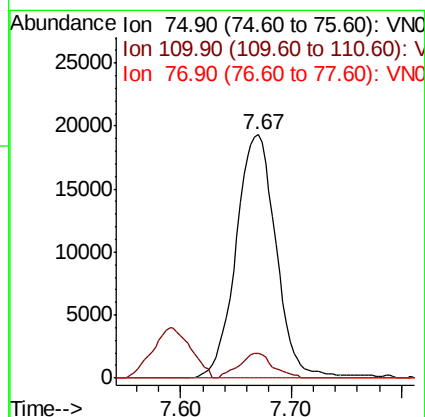
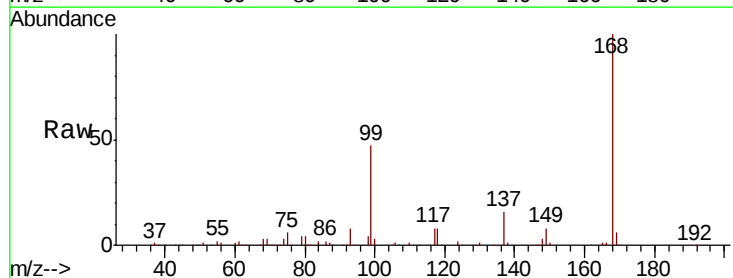
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113045ZHE#04

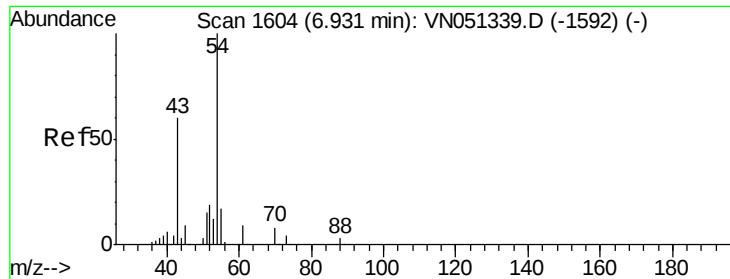
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	24.9	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.99 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN051353.D
 Acq: 20 Sep 2018 20:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.9	56.5#
77	0.0	25.4	38.2#





#37

Ethyl Acetate

Concen: 0.90 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.09 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#04

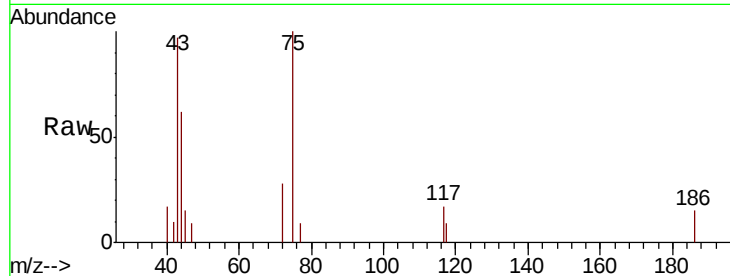
Tot Ion: 43 Resp: 5396

Ion Ratio Lower Upper

43 100

61 0.0 13.6 20.4#

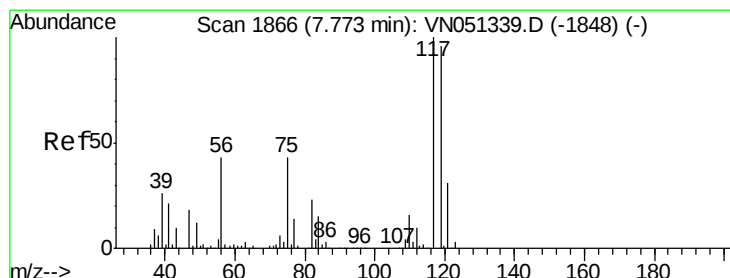
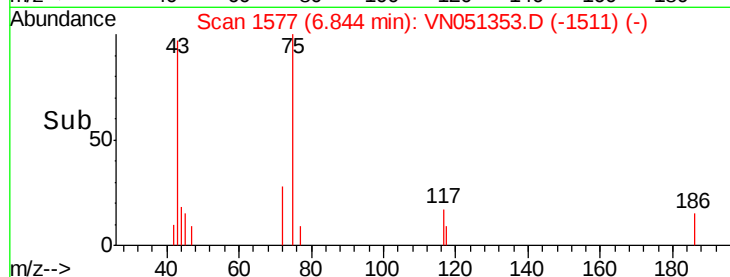
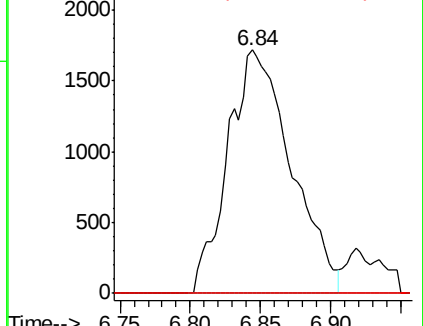
70 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051339.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051339.D (-1592) (-)



#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

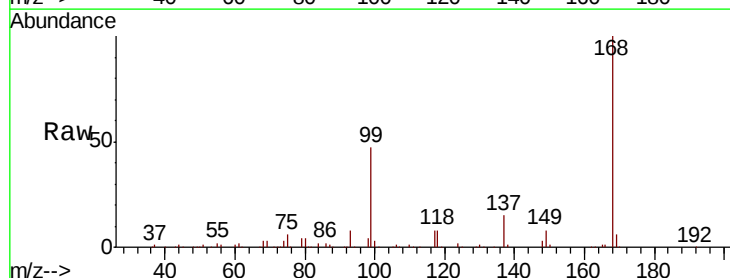
Tgt Ion: 117 Resp: 65898

Ion Ratio Lower Upper

117 100

119 5.4 77.0 115.4#

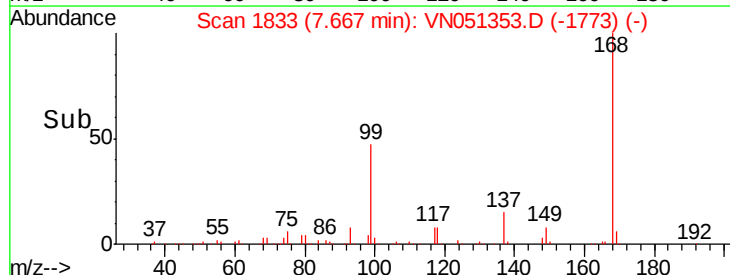
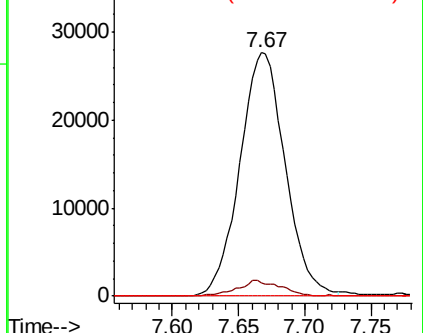
121 0.0 25.0 37.4#

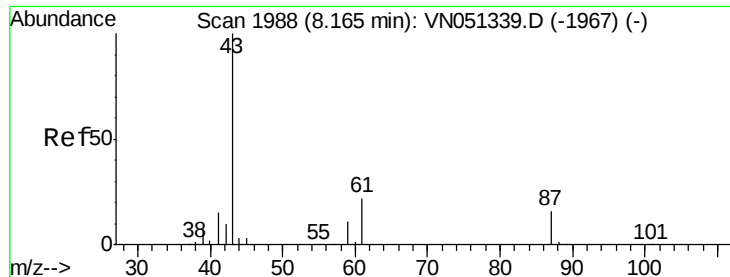


Abundance Ion 116.80 (116.50 to 117.50): VN051339.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN051339.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051339.D (-1848) (-)





#43

Isopropyl Acetate

Concen: 29.21 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#04

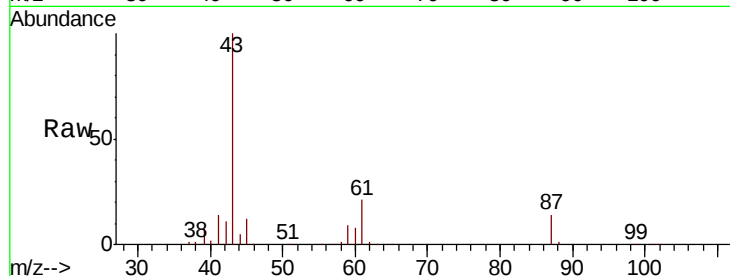
Tot Ion: 43 Resp: 306940

Ion Ratio Lower Upper

43 100

61 18.7 18.1 27.1

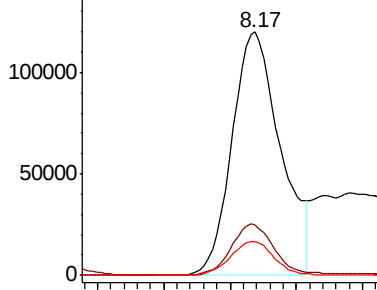
87 12.7 12.8 19.2#



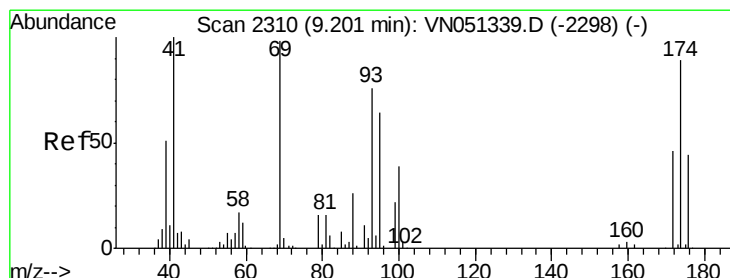
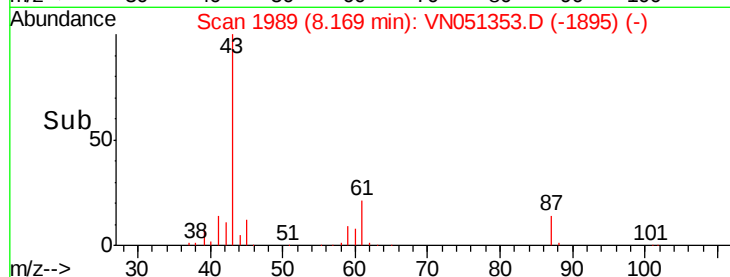
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



Time-->



#48

Methyl methacrylate

Concen: 1.30 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

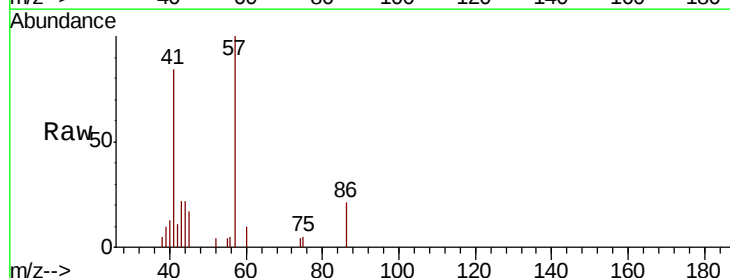
Tgt Ion: 41 Resp: 6954

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

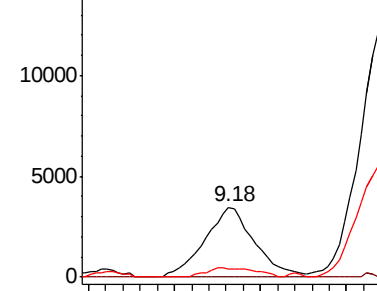
39 13.1 43.0 64.6#



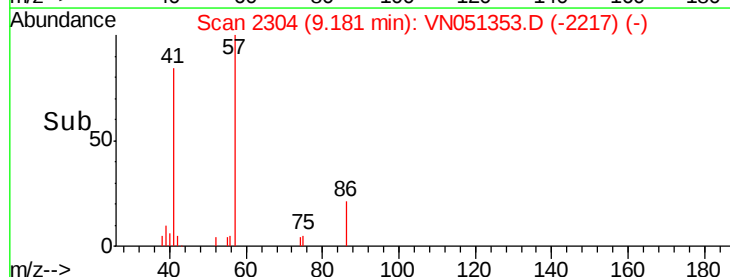
Abundance Ion 41.00 (40.70 to 41.70): VN0

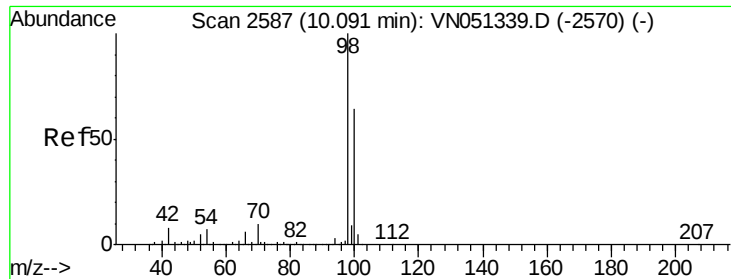
Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->





#50

Toluene-d8

Concen: 43.38 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

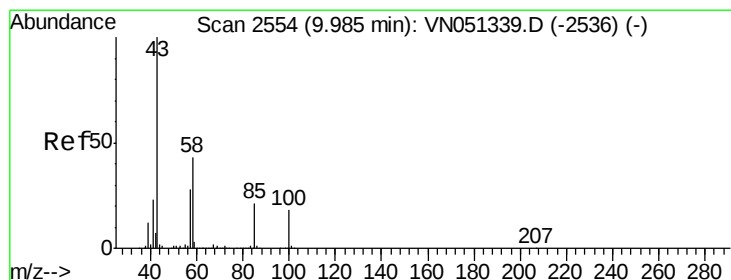
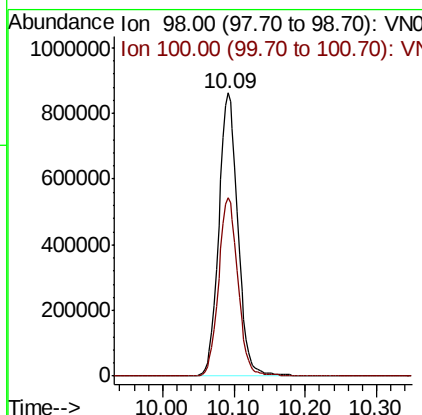
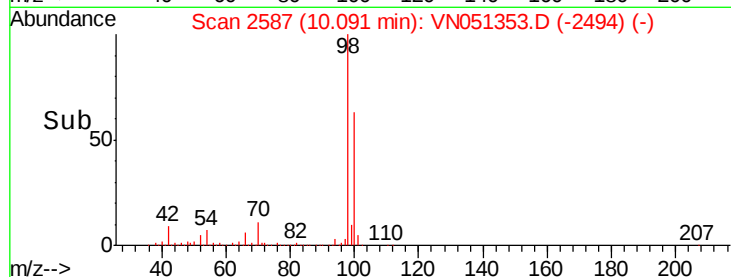
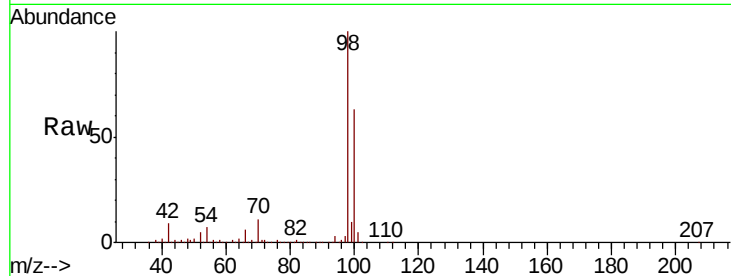
PB113045ZHE#04

Tot Ion: 98 Resp: 1596718

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 0.64 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051353.D

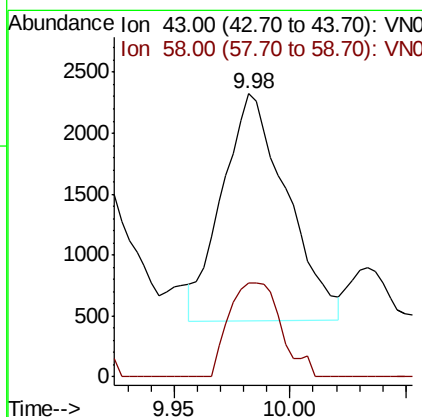
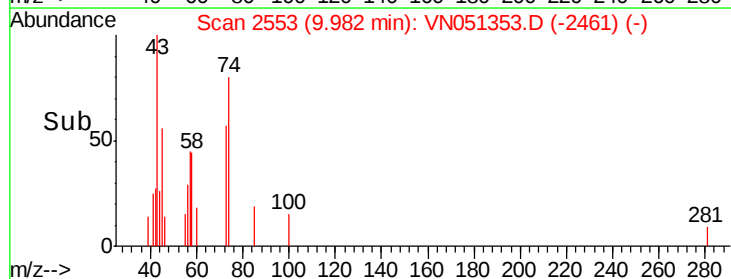
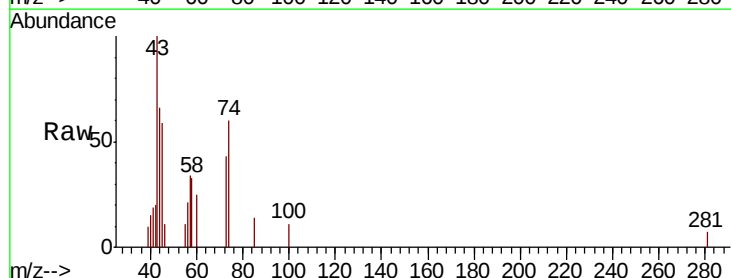
Acq: 20 Sep 2018 20:58

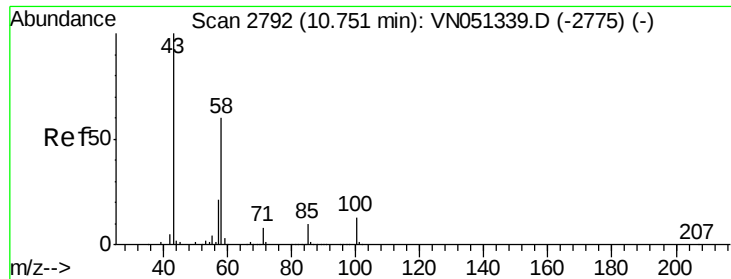
Tgt Ion: 43 Resp: 3613

Ion Ratio Lower Upper

43 100

58 33.4 34.2 51.4#

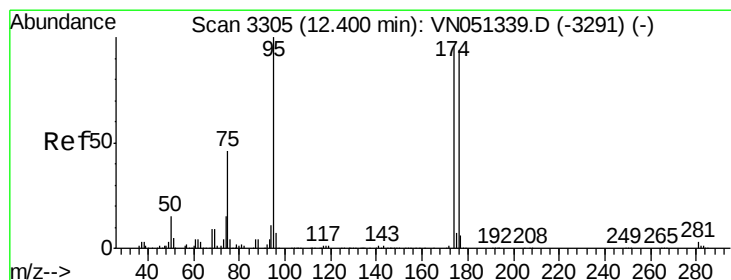
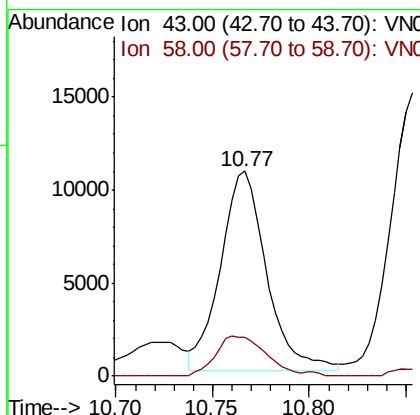
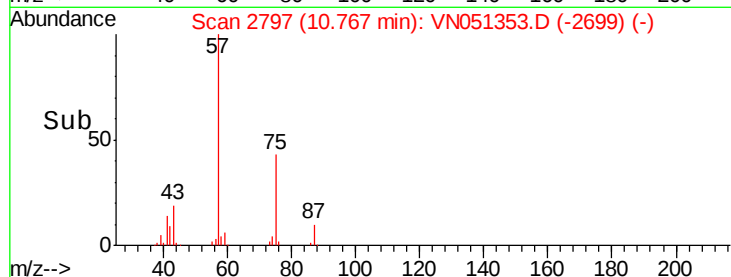
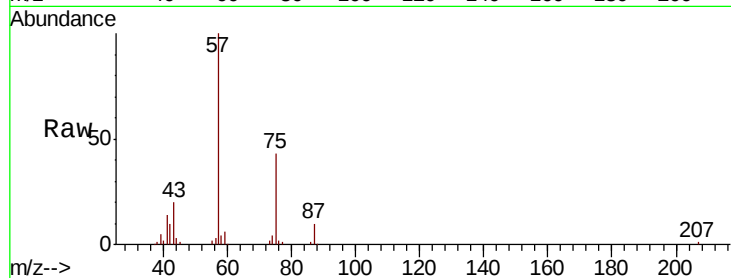




#59
2-Hexanone
Concen: 4.69 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051353.D
Acq: 20 Sep 2018 20:58

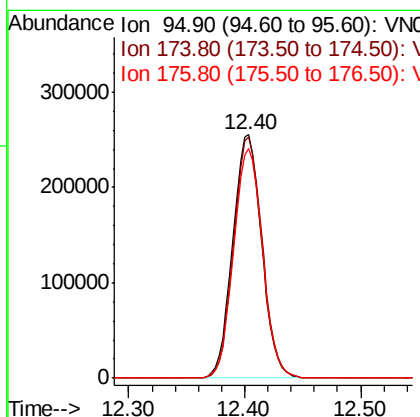
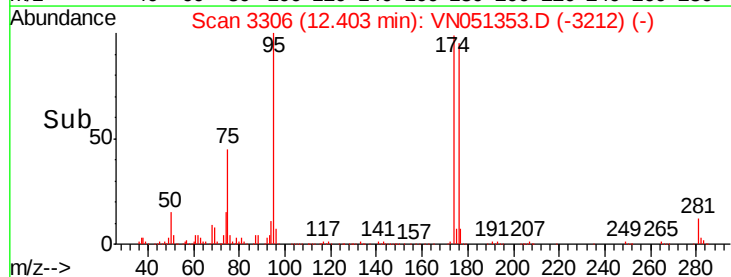
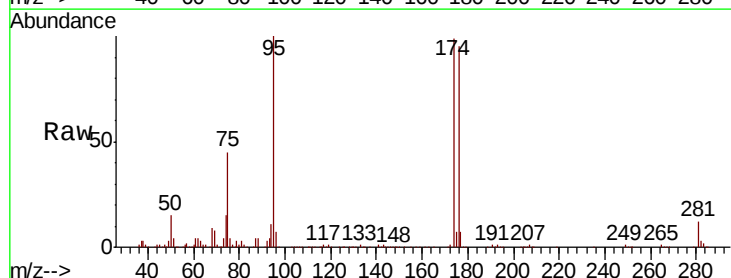
Instrument :
MSVOA_N
ClientSampleId :
PB113045ZHE#04

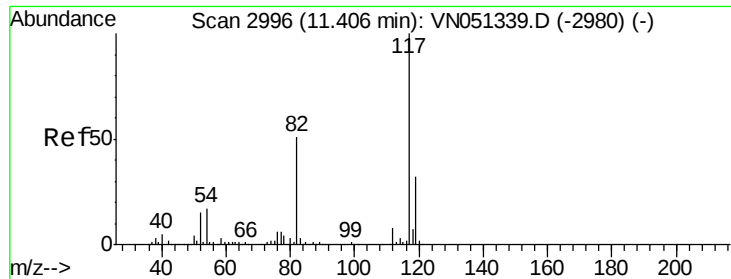
Tot Ion: 43 Resp: 17855
Ion Ratio Lower Upper
43 100
58 22.3 29.9 89.8#



#62
4-Bromofluorobenzene
Concen: 36.68 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051353.D
Acq: 20 Sep 2018 20:58

Tgt Ion: 95 Resp: 439203
Ion Ratio Lower Upper
95 100
174 98.6 0.0 194.6
176 94.1 0.0 189.6

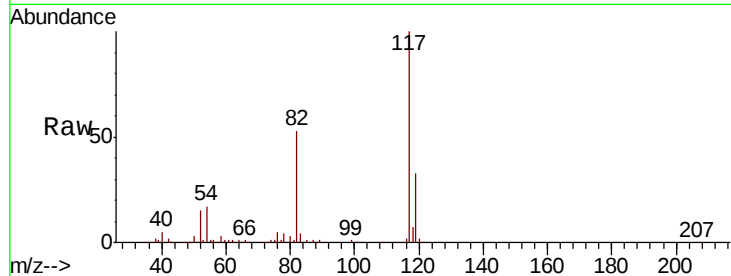




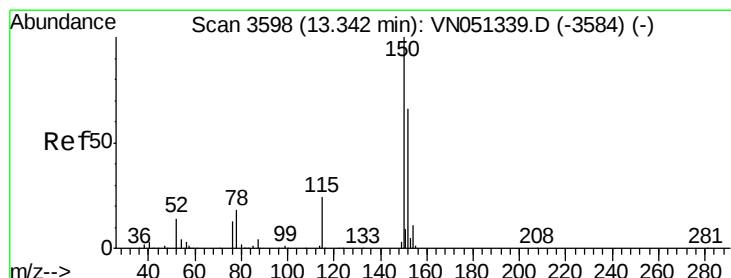
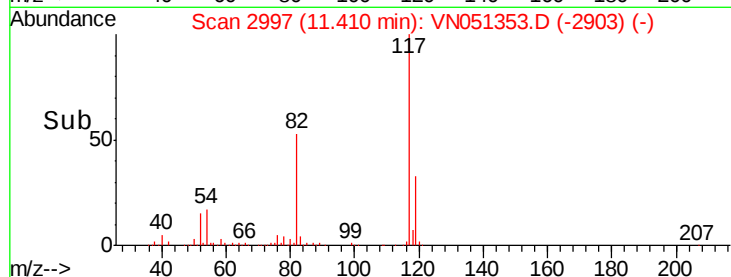
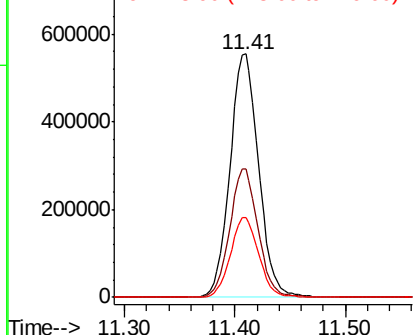
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051353.D
Acq: 20 Sep 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
PB113045ZHE#04

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	40.7	61.1
119	32.9	25.3	37.9

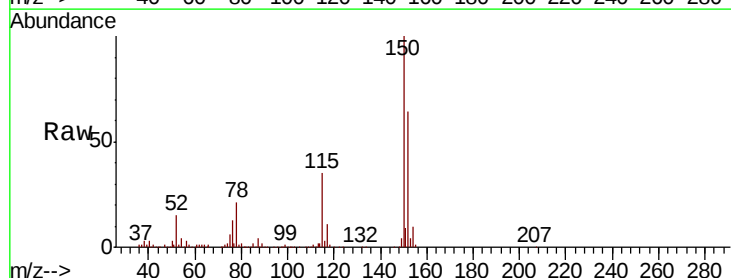


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

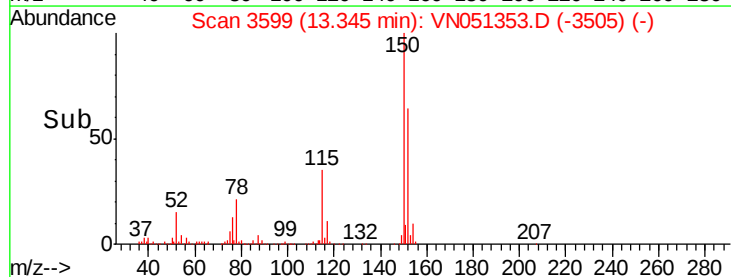
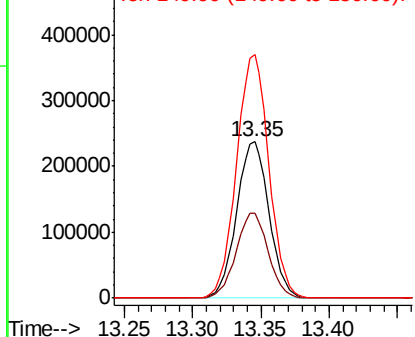


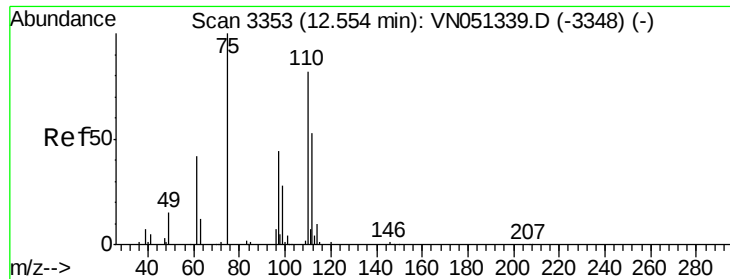
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051353.D
Acq: 20 Sep 2018 20:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	26.9	80.7
150	155.7	0.0	345.0



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: 35.68 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

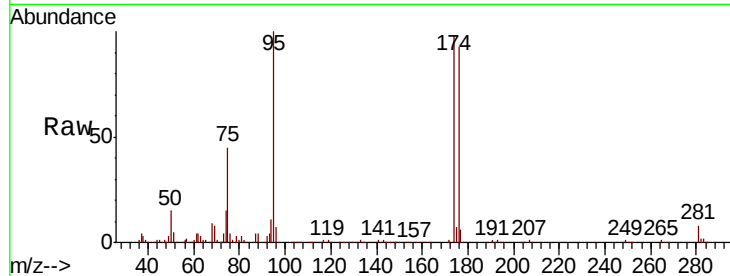
PB113045ZHE#04

Tot Ion: 75 Resp: 201164

Ion Ratio Lower Upper

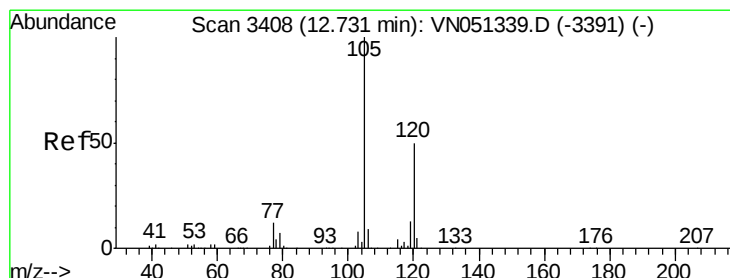
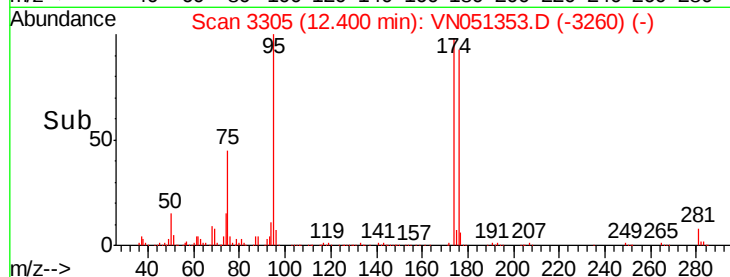
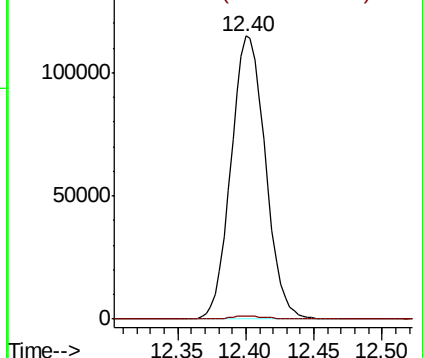
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.20 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051353.D

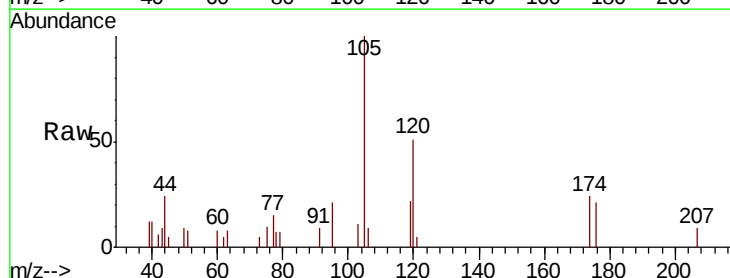
Acq: 20 Sep 2018 20:58

Tgt Ion: 105 Resp: 4750

Ion Ratio Lower Upper

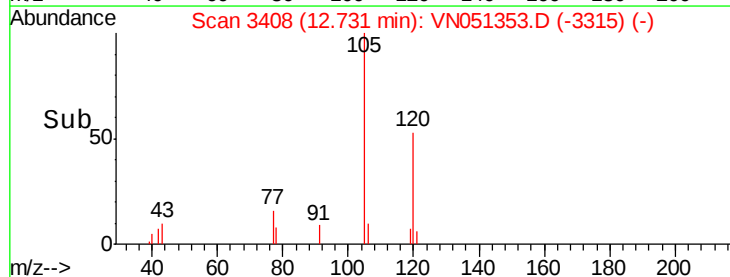
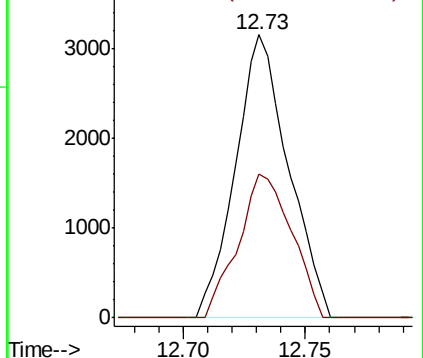
105 100

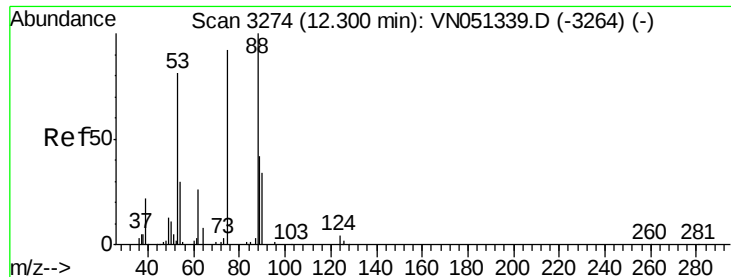
120 51.3 25.2 75.6



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: 123.53 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051353.D

Acq: 20 Sep 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#04

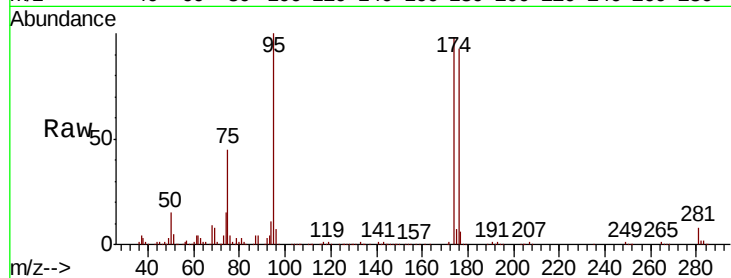
Tot Ion: 75 Resp: 201164

Ion Ratio Lower Upper

75 100

53 0.1 69.9 104.9#

89 0.0 37.9 56.9#



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

