

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051511.D
 Acq On : 26 Sep 2018 2:57
 Operator : MD\SY
 Sample : PB113167ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#05

Quant Time: Sep 26 04:14:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	629539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1000107	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	808642	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	262230	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	438258	55.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.14%	
35) Dibromofluoromethane	7.59	113	378423	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
50) Toluene-d8	10.09	98	1370153	45.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.00%	
62) 4-Bromofluorobenzene	12.40	95	350832	36.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.02%	

Target Compounds

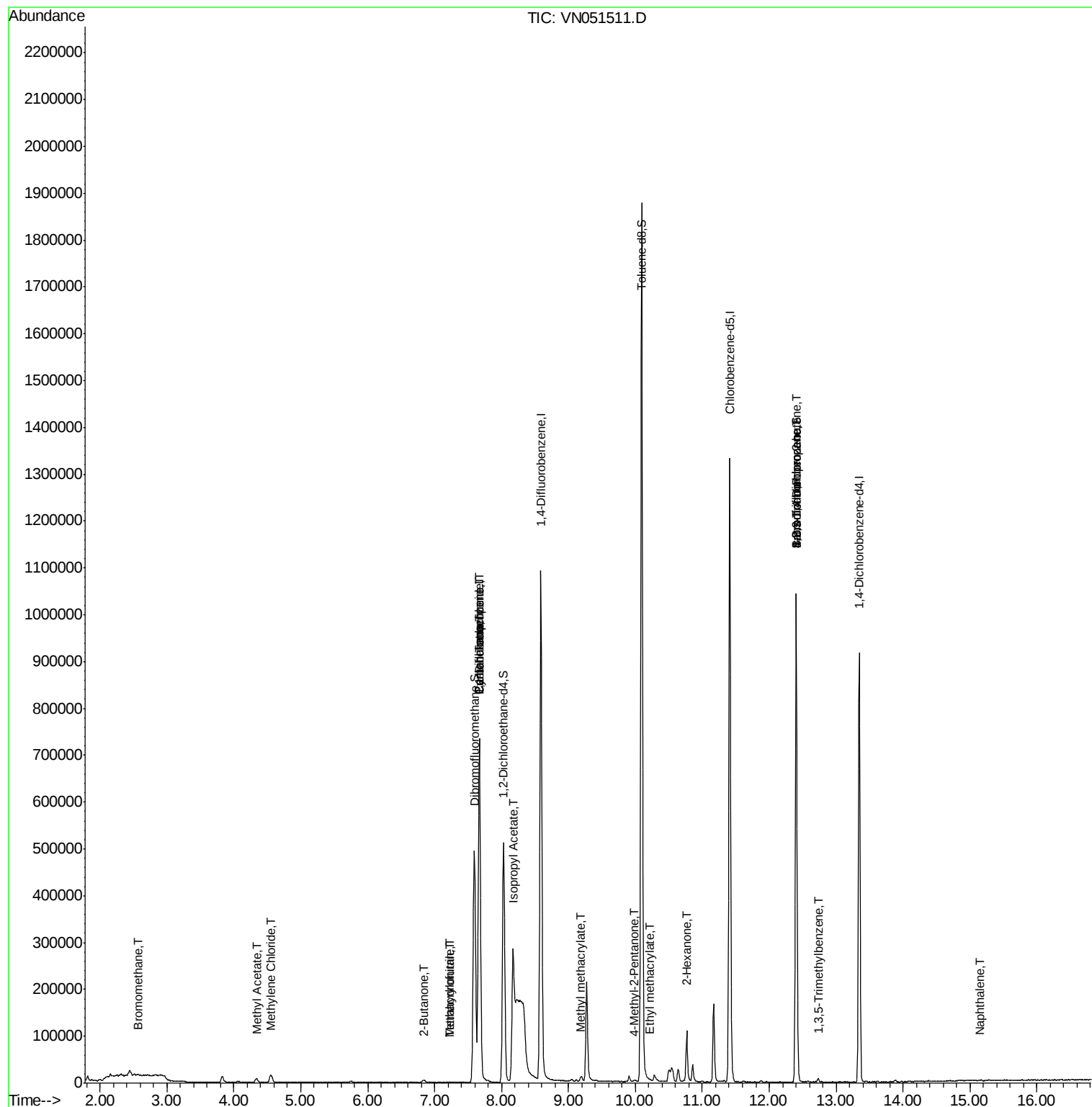
					Qvalue
5) Bromomethane	2.56	94	1034	0.226 ug/l #	59
16) Acetone	3.82	43	22333	Below Cal	95
18) Methyl Acetate	4.34	43	16170	2.692 ug/l #	65
20) Methylene Chloride	4.55	84	11654	1.493 ug/l	97
25) 2-Butanone	6.85	43	3604	1.335 ug/l	98
29) Tetrahydrofuran	7.22	42	1225	0.716 ug/l #	47
31) Cyclohexane	7.67	56	10831	0.872 ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44569	3.848 ug/l #	43
38) Carbon Tetrachloride	7.67	117	57093	4.713 ug/l #	17
41) Methacrylonitrile	7.22	41	875	0.238 ug/l #	32
43) Isopropyl Acetate	8.17	43	359110	29.824 ug/l #	88
48) Methyl methacrylate	9.18	41	6382	1.063 ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	2256	0.341 ug/l #	63
56) Ethyl methacrylate	10.22	69	1951	0.214 ug/l #	71
59) 2-Hexanone	10.77	43	15366	3.579 ug/l #	58
71) Bromoform	12.40	173	2239	0.417 ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	174022	39.976 ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3618	0.201 ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	174022	122.923 ug/l #	13
95) Naphthalene	15.14	128	290	8.069 ug/l #	69

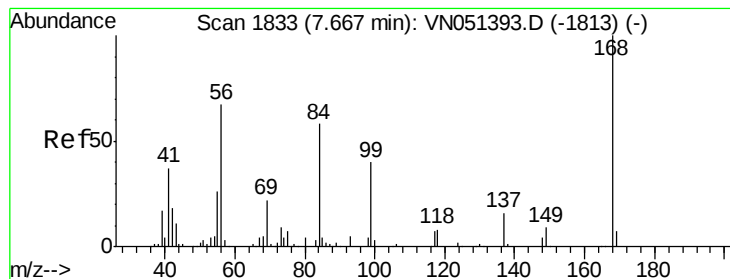
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

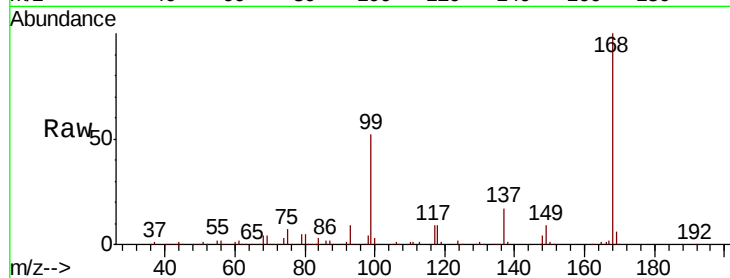
PB113167ZHE#05

Tot Ion:168 Resp: 629539

Ion Ratio Lower Upper

168 100

99 51.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

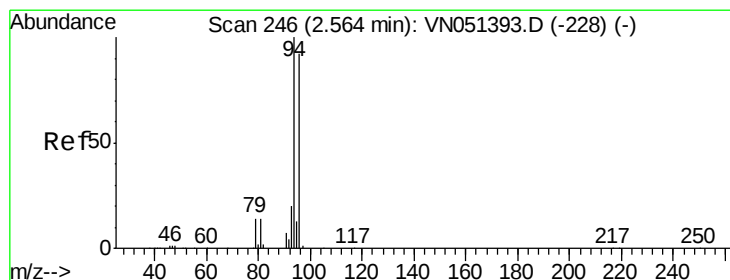
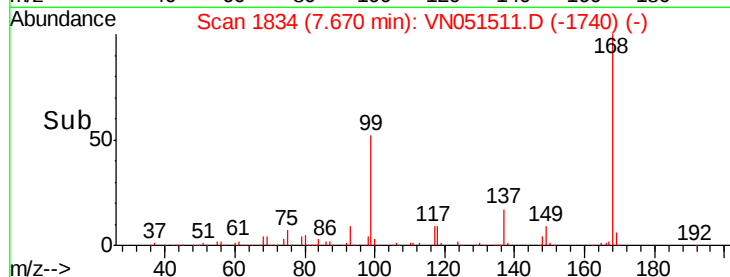
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.226 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.00 min

Lab File: VN051511.D

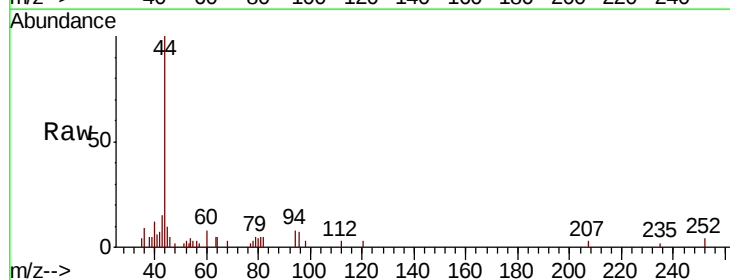
Acq: 26 Sep 2018 2:57

Tgt Ion: 94 Resp: 1034

Ion Ratio Lower Upper

94 100

96 53.2 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.56

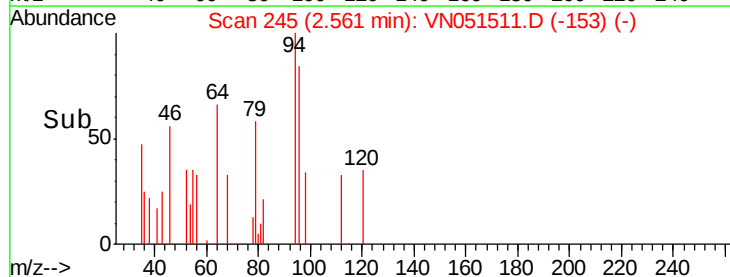
600

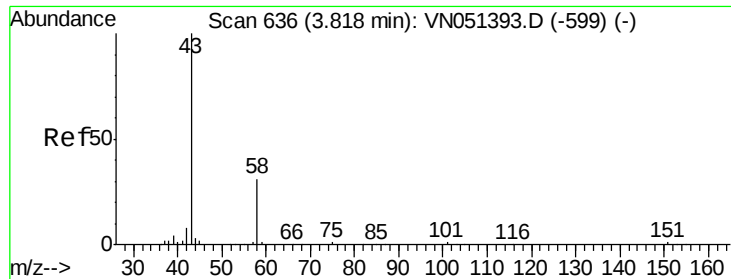
400

200

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

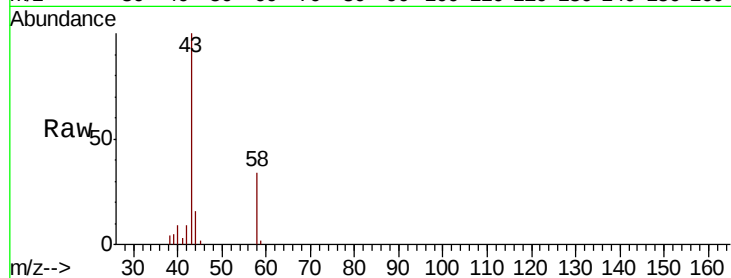
PB113167ZHE#05

Tot Ion: 43 Resp: 22333

Ion Ratio Lower Upper

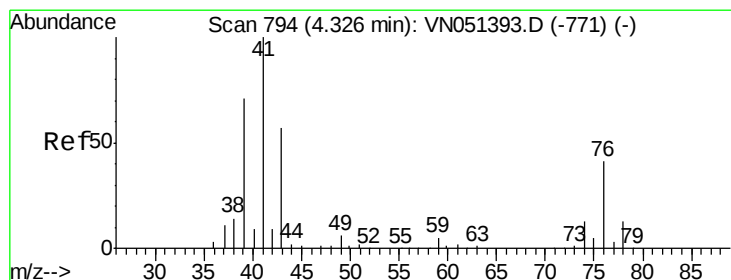
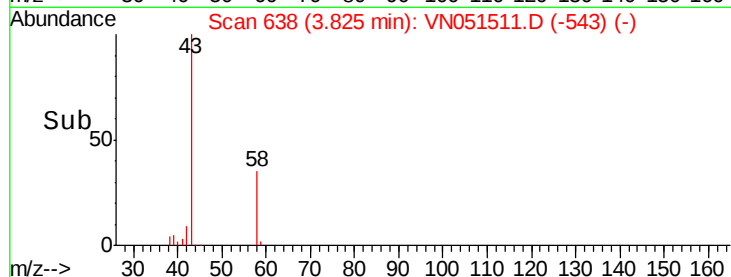
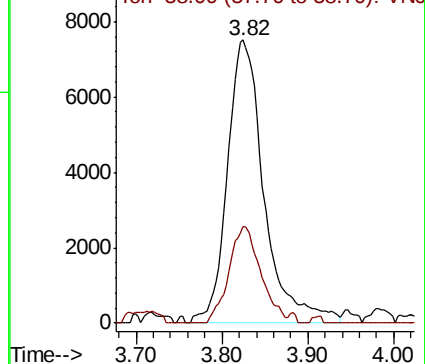
43 100

58 33.9 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.692 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051511.D

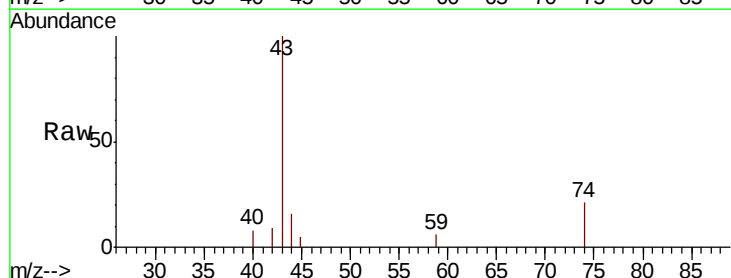
Acq: 26 Sep 2018 2:57

Tgt Ion: 43 Resp: 16170

Ion Ratio Lower Upper

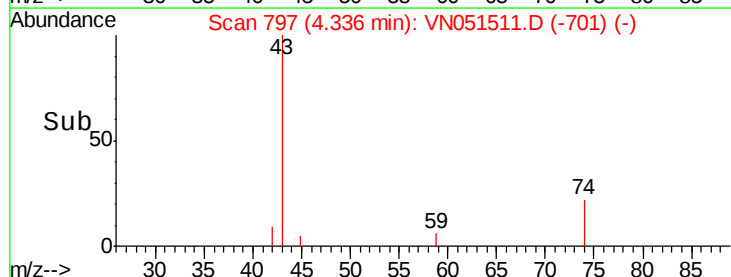
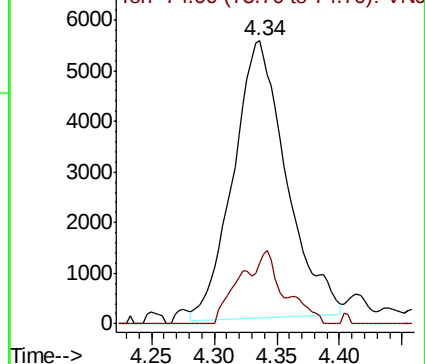
43 100

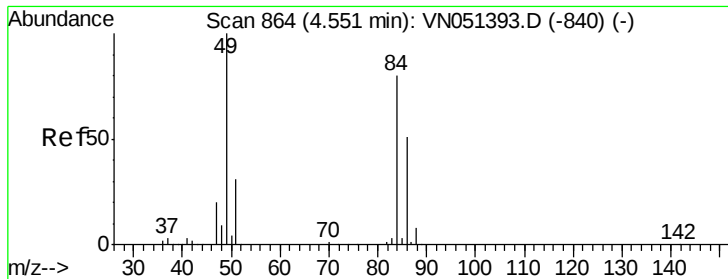
74 6.4 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 1.493 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#05

Tot Ion: 84 Resp: 11654

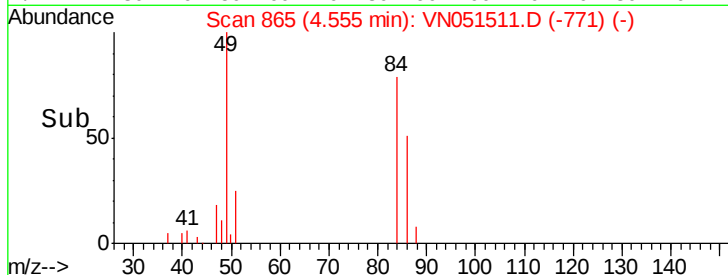
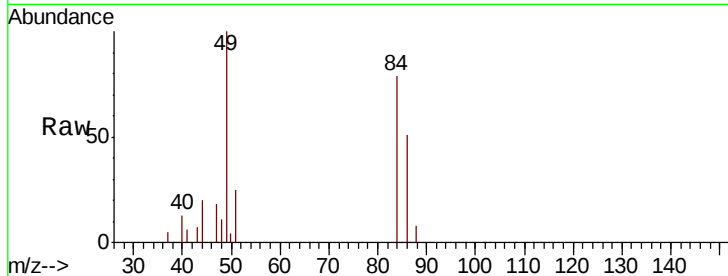
Ion Ratio Lower Upper

84 100

49 125.8 99.9 149.9

51 32.0 31.4 47.2

86 63.8 50.9 76.3

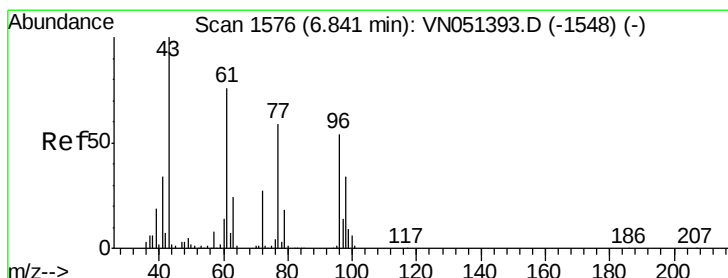
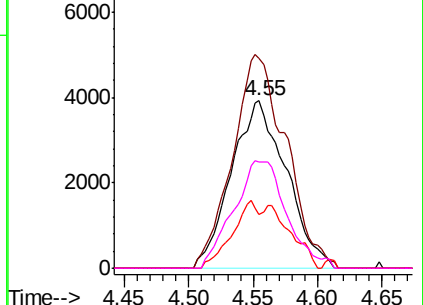


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.335 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN051511.D

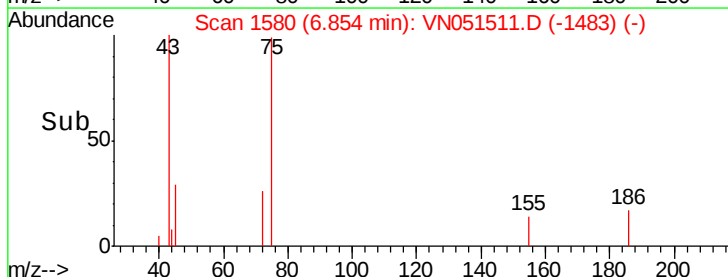
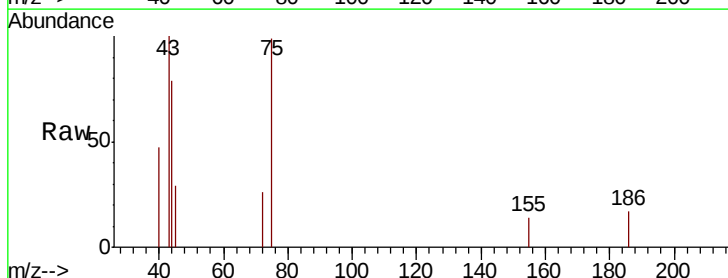
Acq: 26 Sep 2018 2:57

Tgt Ion: 43 Resp: 3604

Ion Ratio Lower Upper

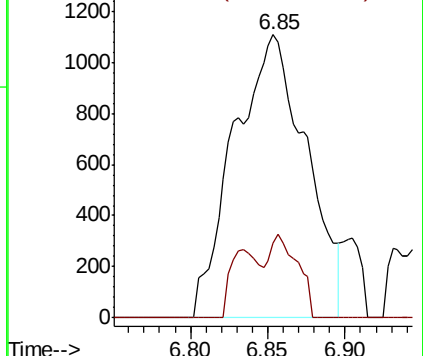
43 100

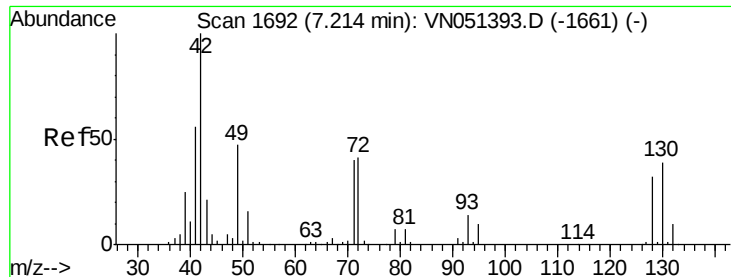
72 26.3 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.716 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#05

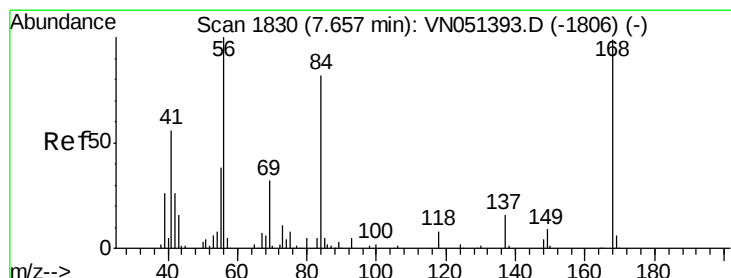
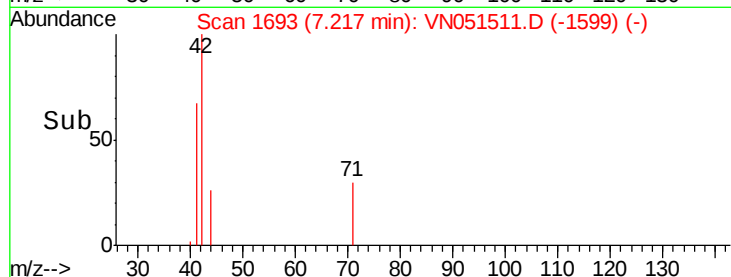
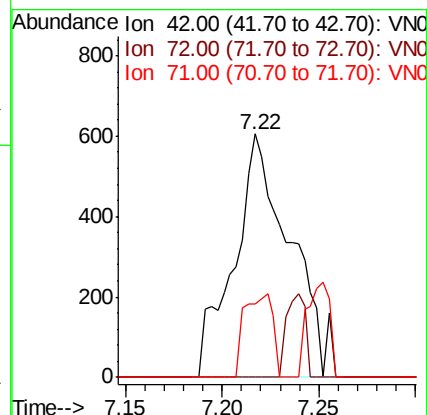
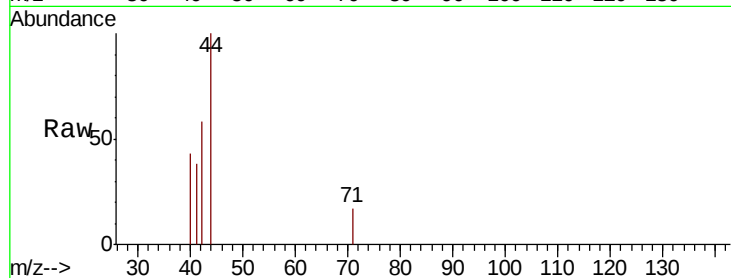
Tot Ion: 42 Resp: 1225

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

71 17.2 32.2 48.4#



#31

Cyclohexane

Concen: 0.872 ug/l

RT: 7.67 min Scan# 1835

Delta R.T. 0.02 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

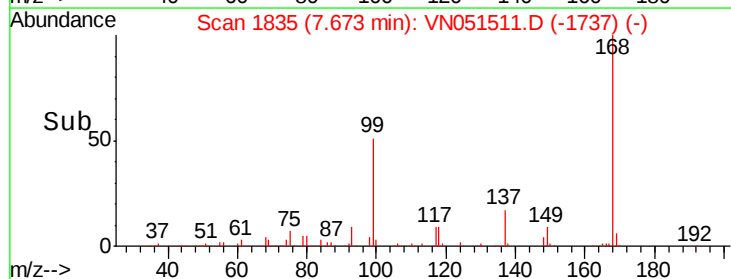
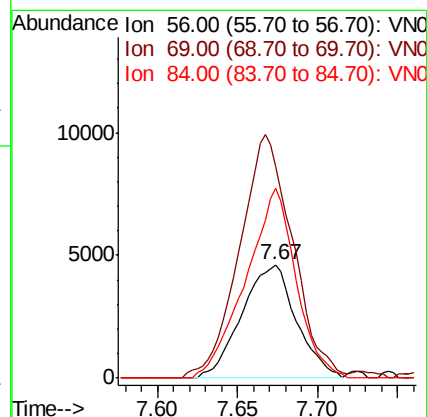
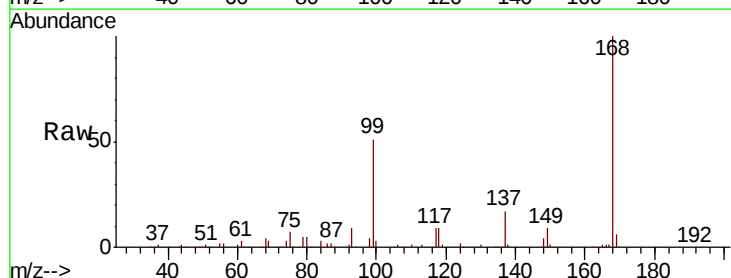
Tgt Ion: 56 Resp: 10831

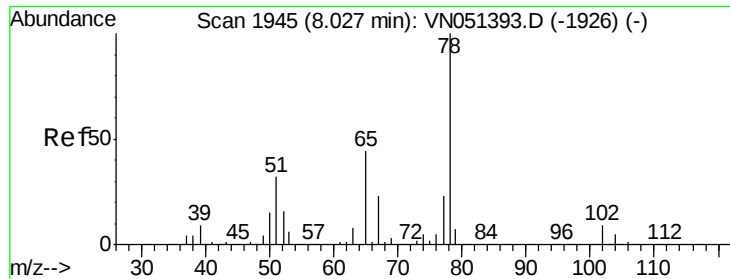
Ion Ratio Lower Upper

56 100

69 182.5 25.8 38.6#

84 168.2 66.0 99.0#

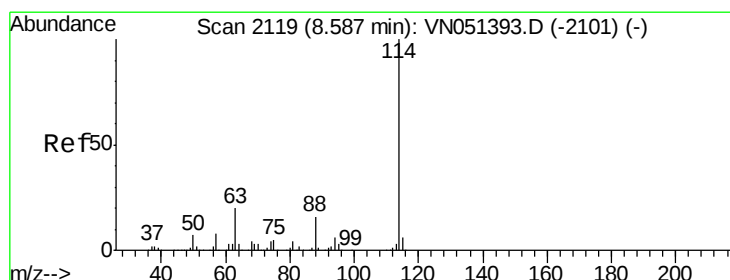
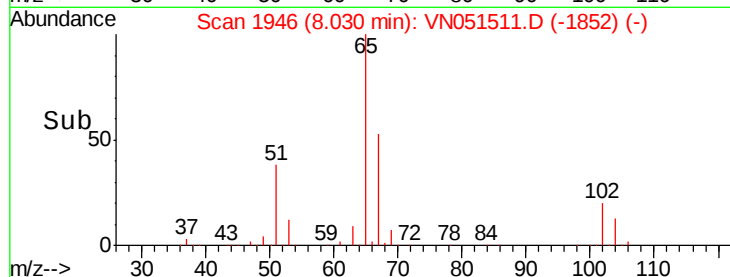
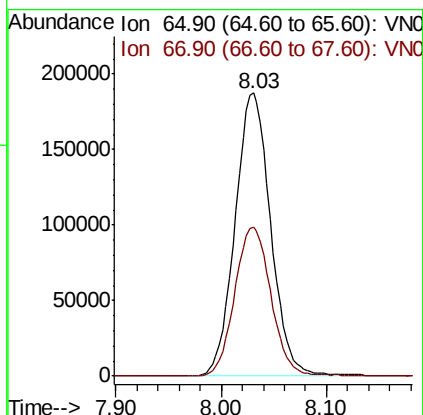
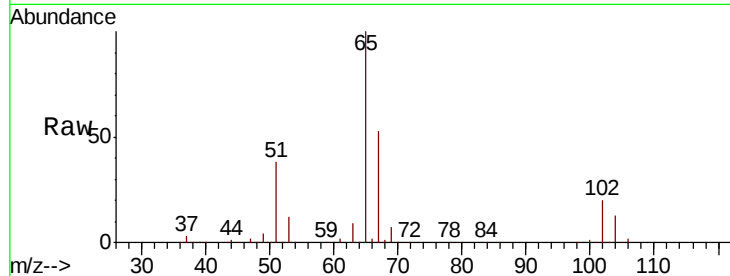




#33
 1,2-Dichloroethane-d4
 Concen: 55.573 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051511.D
 Acq: 26 Sep 2018 2:57

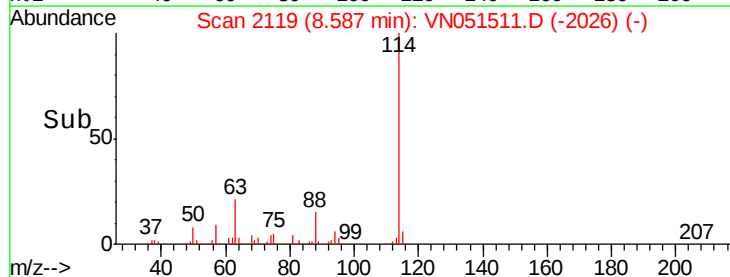
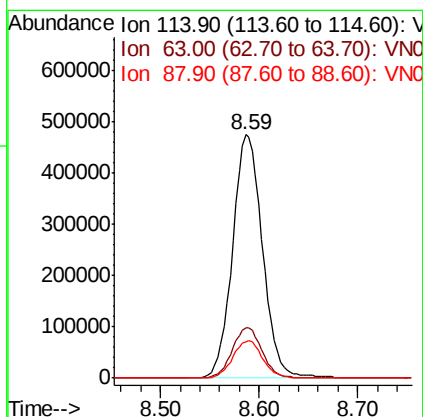
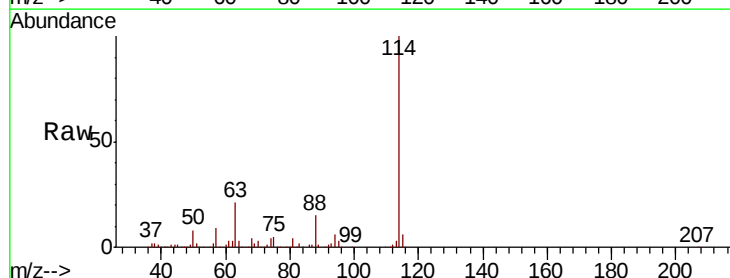
Instrument :
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 PB113167ZHE#05

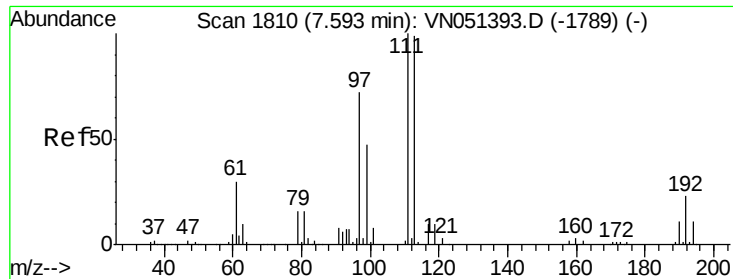
Tot Ion: 65 Resp: 438258
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051511.D
 Acq: 26 Sep 2018 2:57

Tgt Ion: 114 Resp: 1000107
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.2
 88 15.1 0.0 31.4

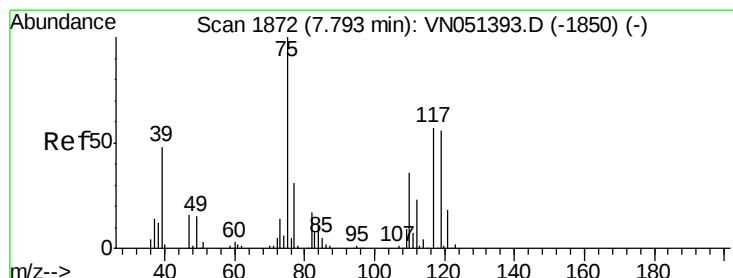
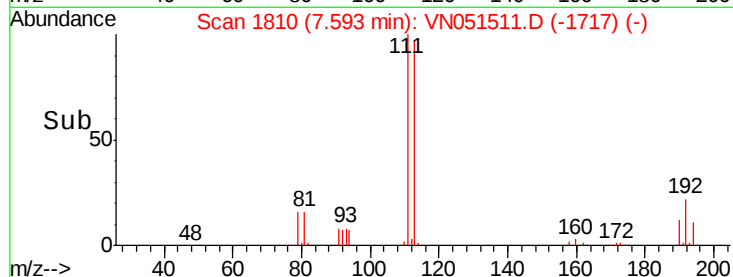
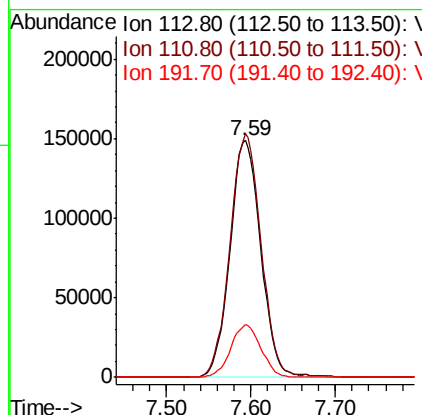
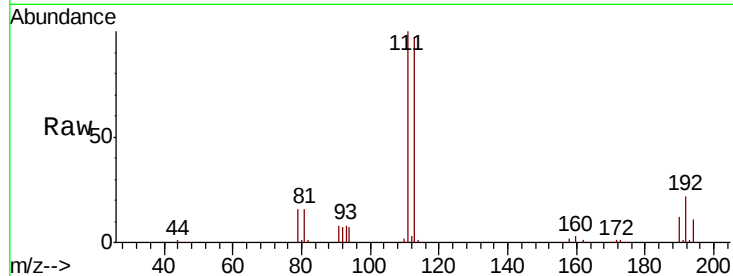




#35
 Dibromofluoromethane
 Concen: 47.318 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051511.D
 Acq: 26 Sep 2018 2:57

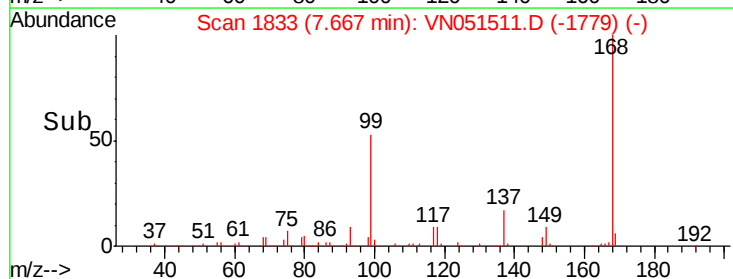
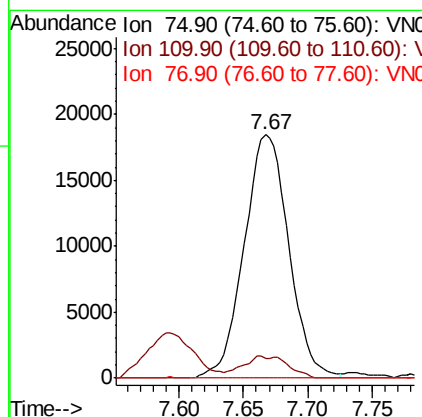
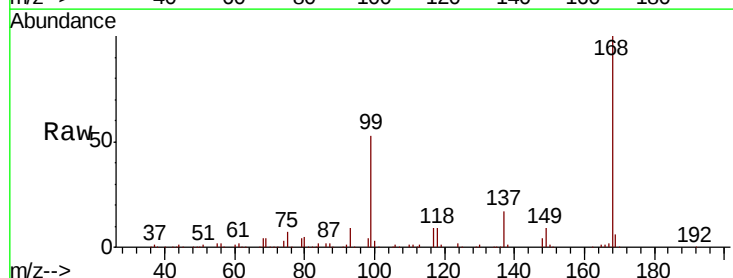
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#05

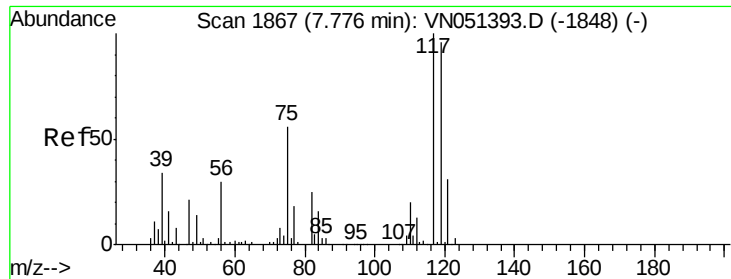
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	22.0	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.848 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051511.D
 Acq: 26 Sep 2018 2:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.3	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.713 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#05

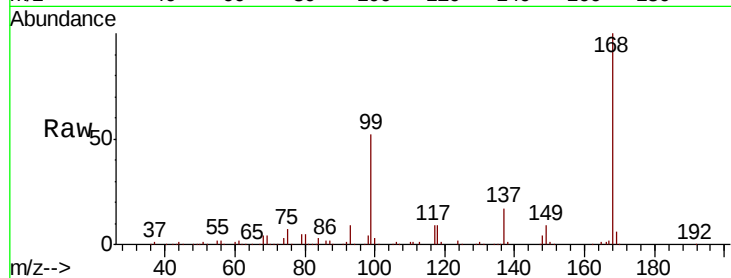
Tot Ion:117 Resp: 57093

Ion Ratio Lower Upper

117 100

119 6.6 76.9 115.3#

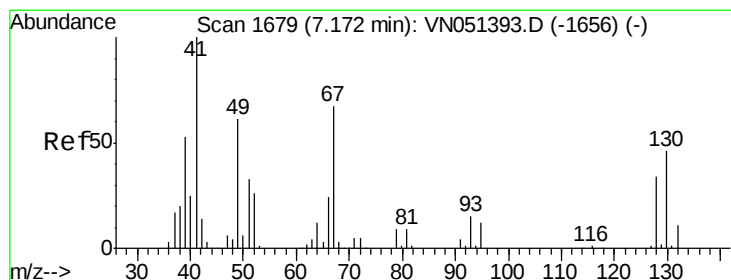
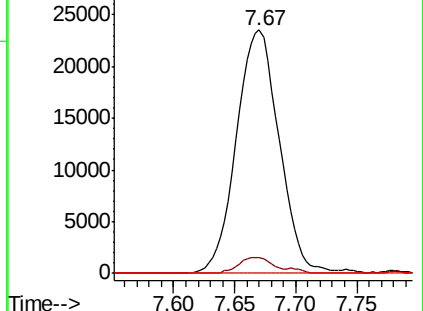
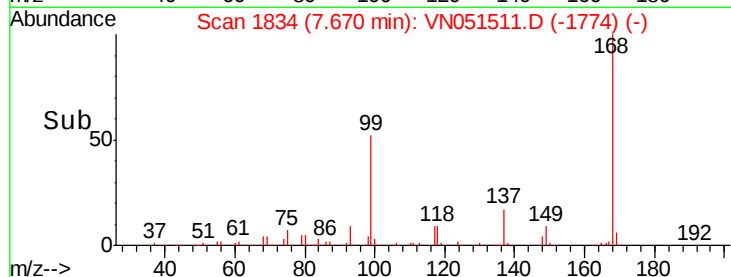
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.238 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.05 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Tgt Ion: 41 Resp: 875

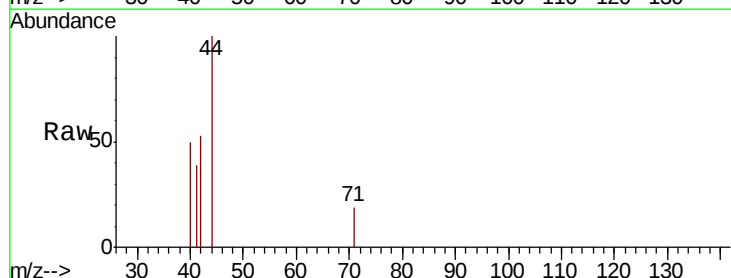
Ion Ratio Lower Upper

41 100

39 31.3 51.4 77.2#

67 0.0 66.8 100.2#

52 0.0 27.7 41.5#

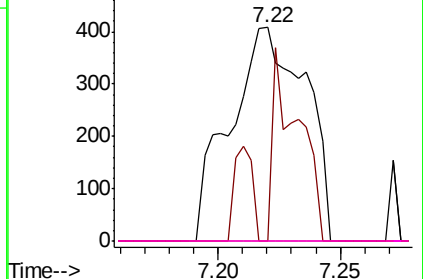
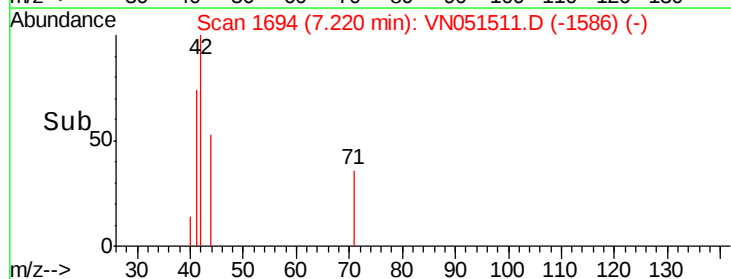


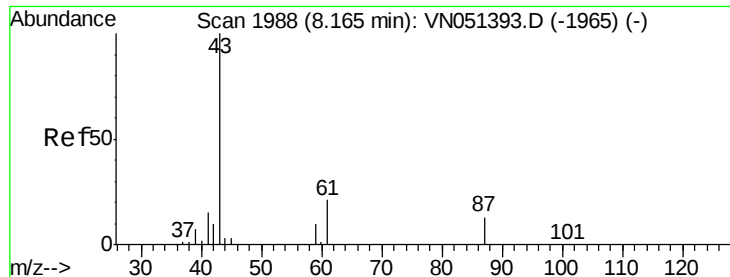
Abundance Ion 41.00 (40.70 to 41.70): VNO

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





#43

Isopropyl Acetate

Concen: 29.824 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#05

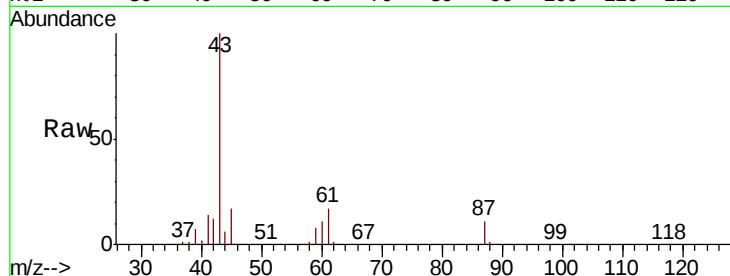
Tot Ion: 43 Resp: 359110

Ion Ratio Lower Upper

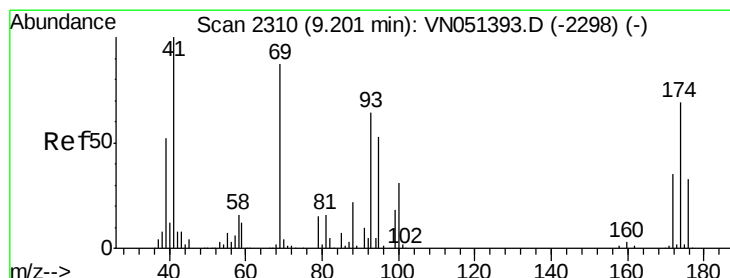
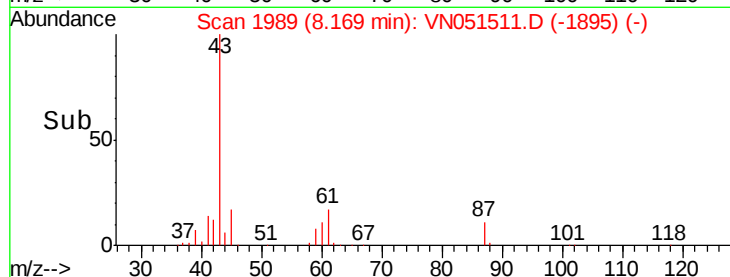
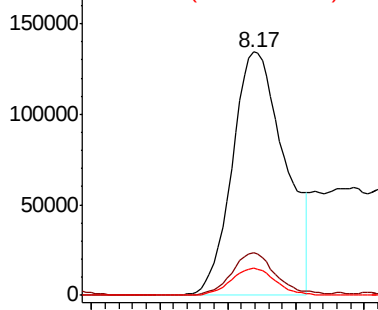
43 100

61 14.7 16.8 25.2#

87 9.4 10.7 16.1#



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: 1.063 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

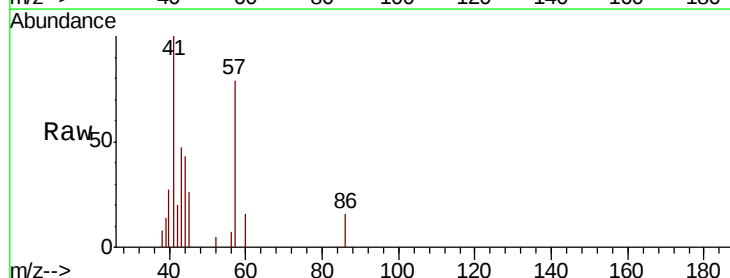
Tgt Ion: 41 Resp: 6382

Ion Ratio Lower Upper

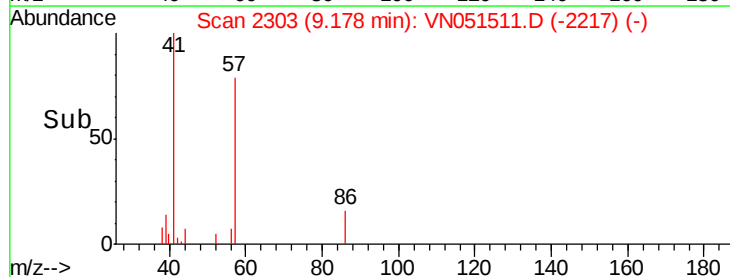
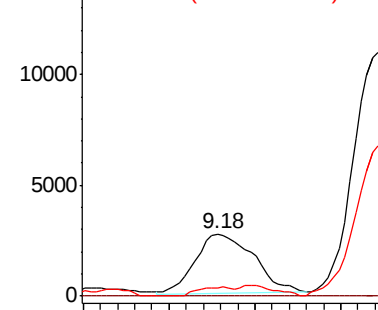
41 100

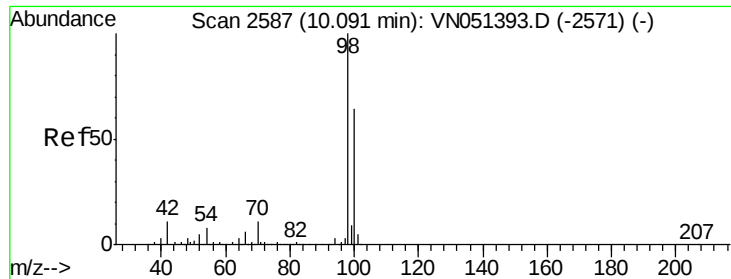
69 0.0 70.4 105.6#

39 9.0 43.8 65.8#



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

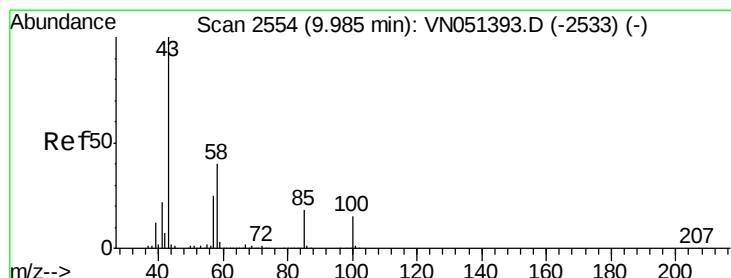
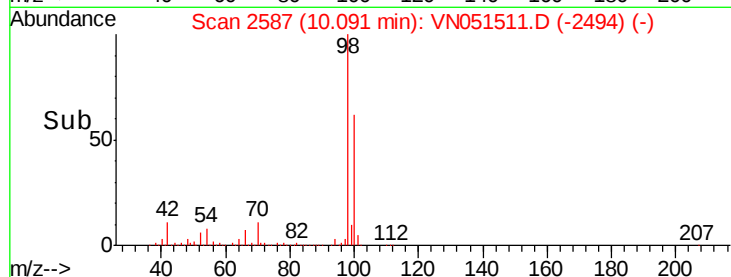
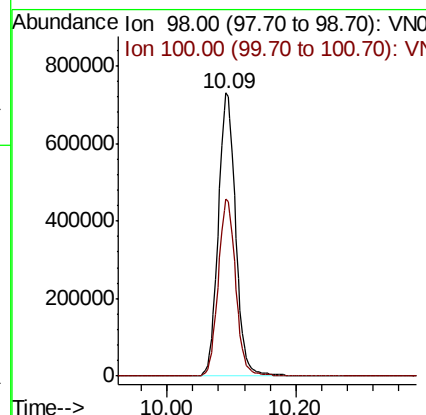
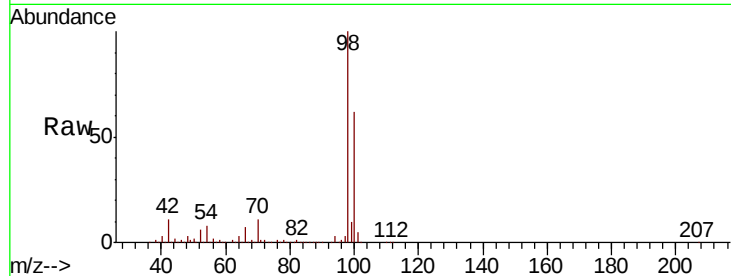




#50
Toluene-d8
Concen: 45.497 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051511.D
Acq: 26 Sep 2018 2:57

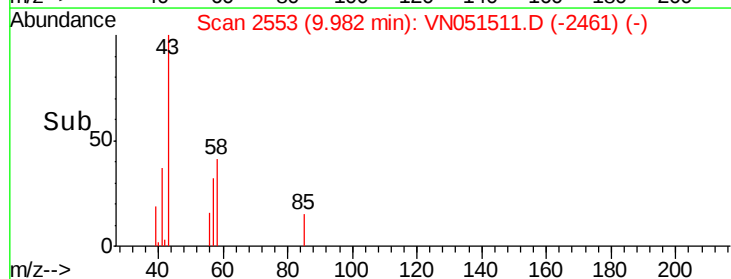
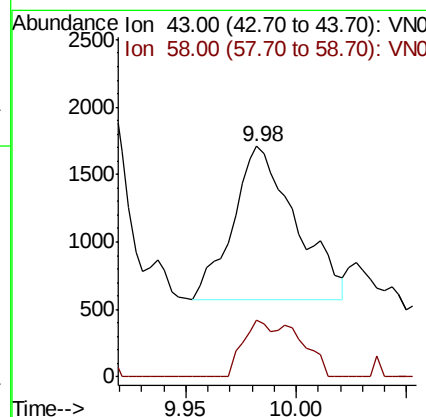
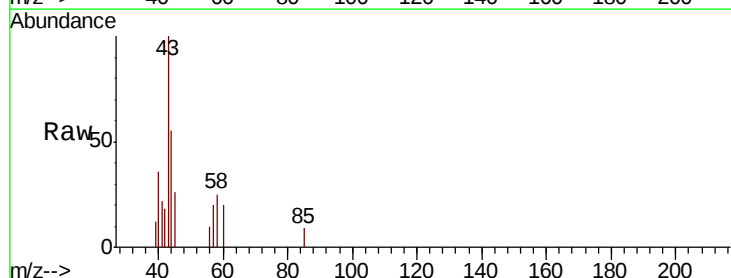
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#05

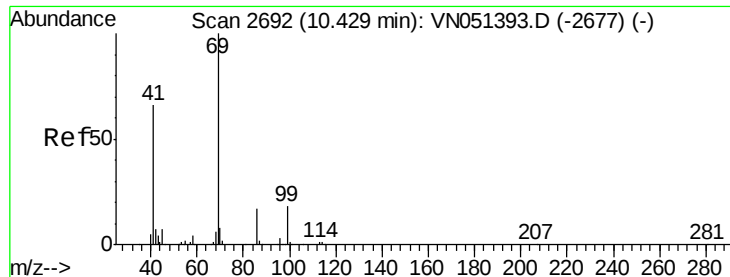
Tot Ion: 98 Resp: 1370153
Ion Ratio Lower Upper
98 100
100 63.0 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 0.341 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN051511.D
Acq: 26 Sep 2018 2:57

Tgt Ion: 43 Resp: 2256
Ion Ratio Lower Upper
43 100
58 16.5 31.5 47.3#





#56

Ethyl methacrylate

Concen: 0.214 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#05

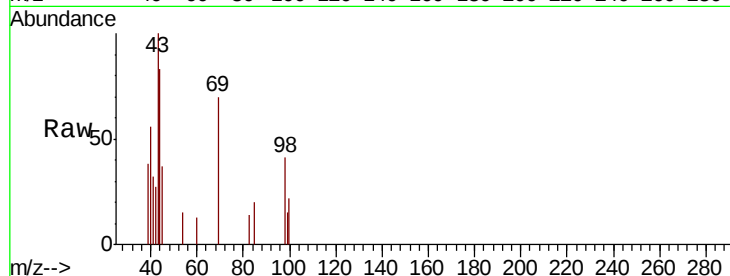
Tot Ion: 69 Resp: 1951

Ion Ratio Lower Upper

69 100

41 45.5 52.4 78.6#

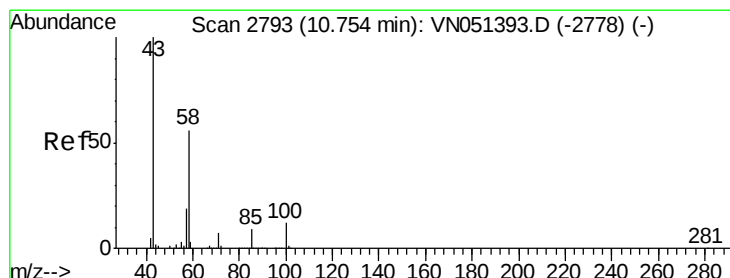
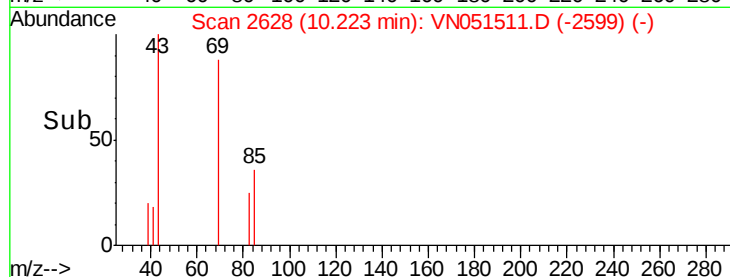
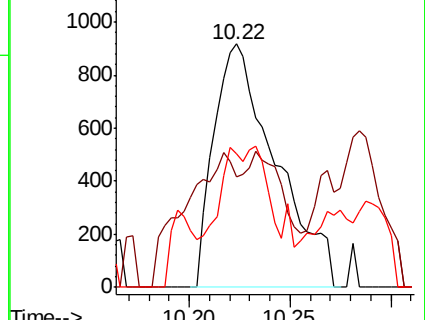
39 12.4 26.3 39.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.579 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051511.D

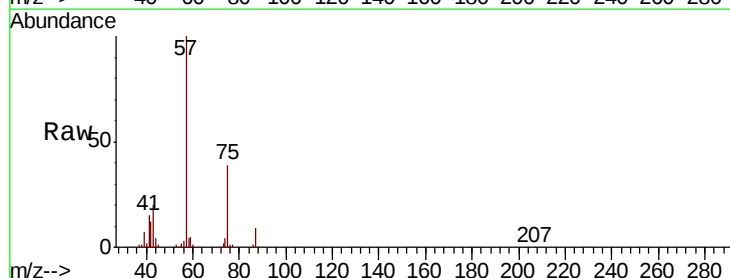
Acq: 26 Sep 2018 2:57

Tgt Ion: 43 Resp: 15366

Ion Ratio Lower Upper

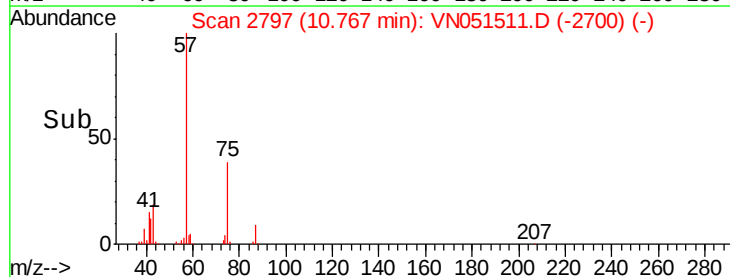
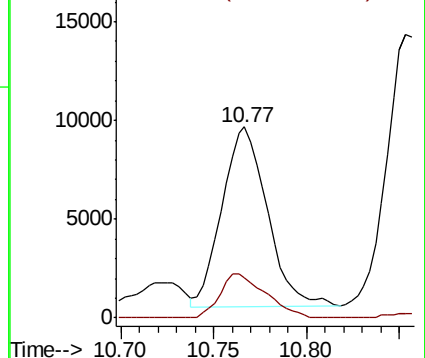
43 100

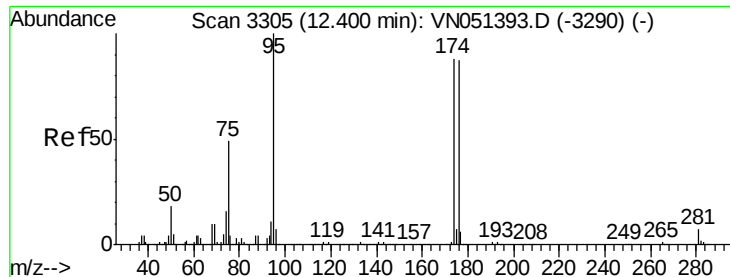
58 25.1 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.011 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#05

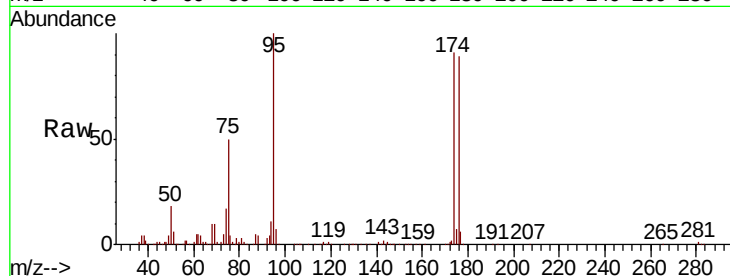
Tot Ion: 95 Resp: 350832

Ion Ratio Lower Upper

95 100

174 90.5 0.0 181.6

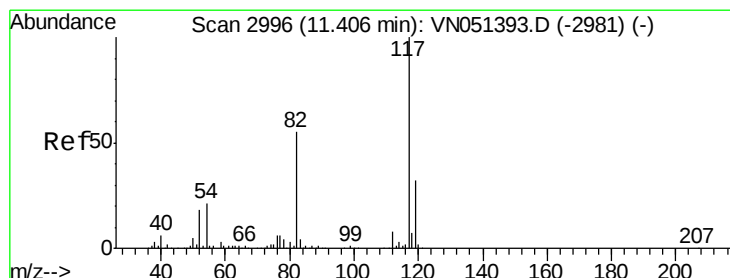
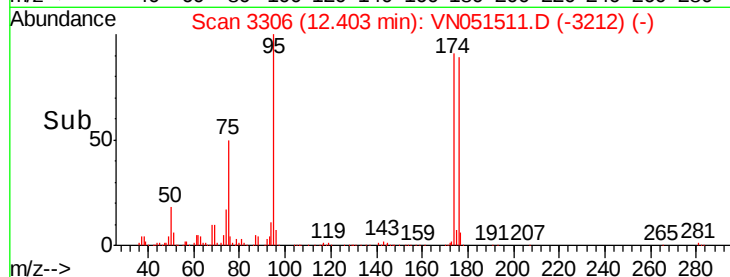
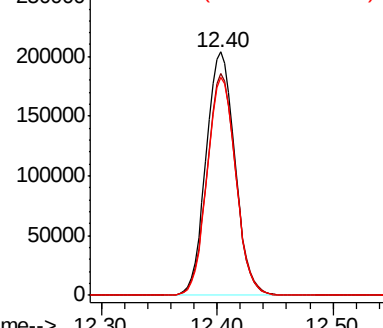
176 88.5 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

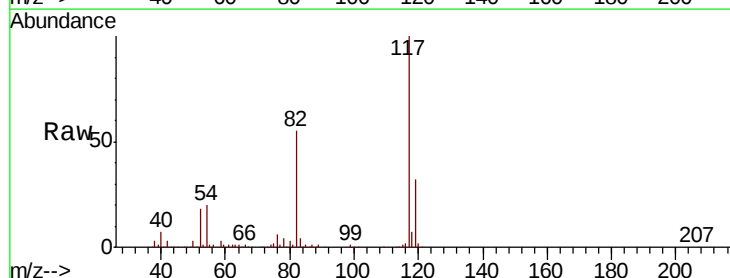
Tgt Ion: 117 Resp: 808642

Ion Ratio Lower Upper

117 100

82 55.4 44.2 66.2

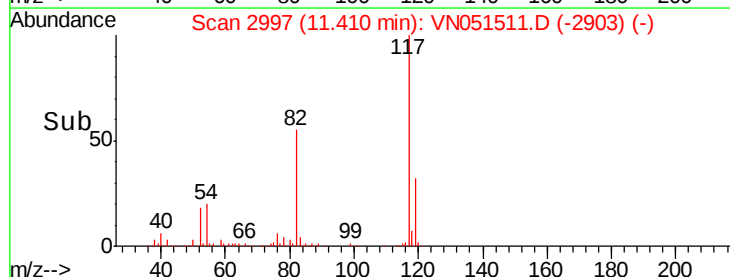
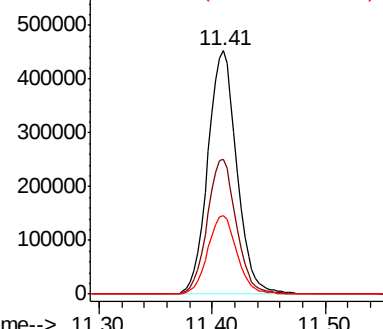
119 32.2 25.9 38.9

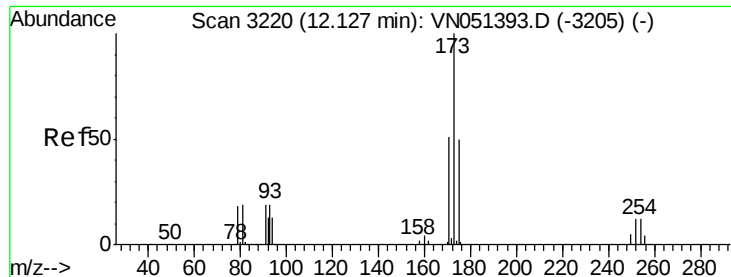


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)





#71

Bromoform

Concen: 0.417 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#05

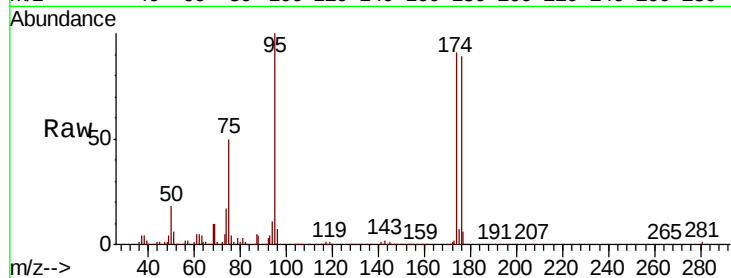
Tot Ion:173 Resp: 2239

Ion Ratio Lower Upper

173 100

175 905.5 24.8 74.3#

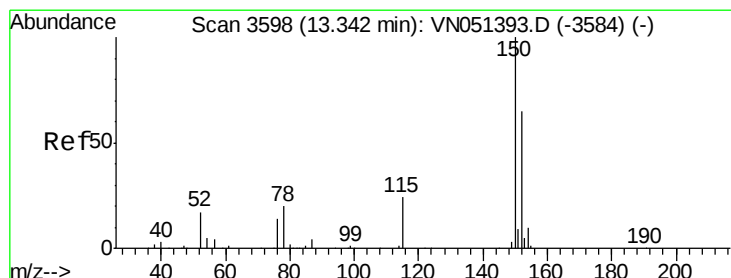
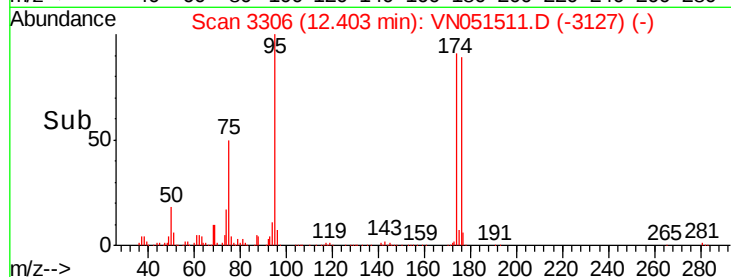
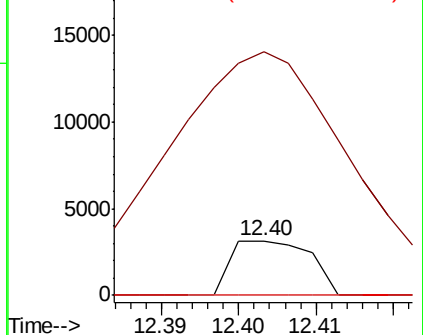
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051511.D

Acq: 26 Sep 2018 2:57

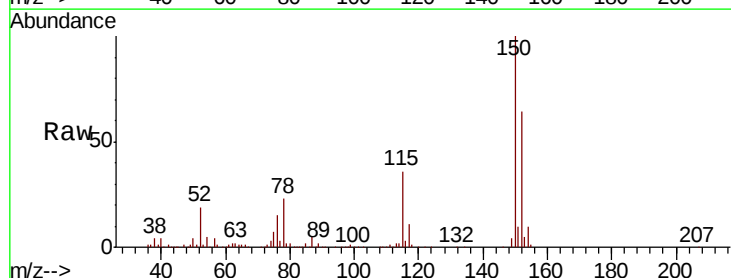
Tgt Ion:152 Resp: 262230

Ion Ratio Lower Upper

152 100

115 56.6 28.3 84.9

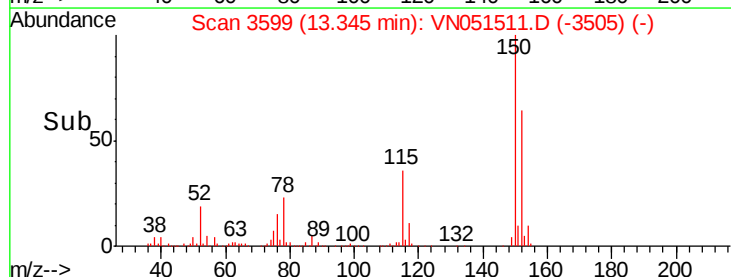
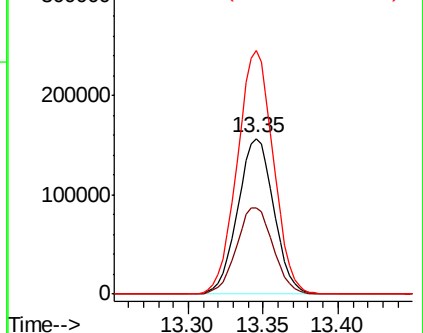
150 156.9 0.0 353.6

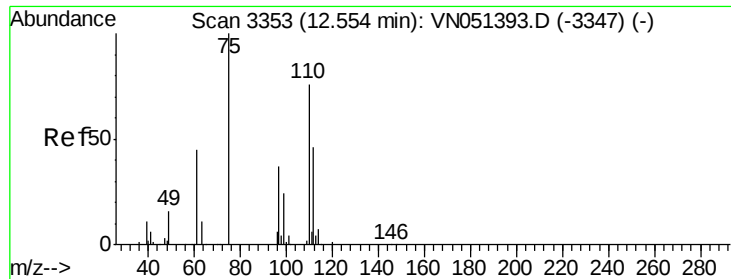


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

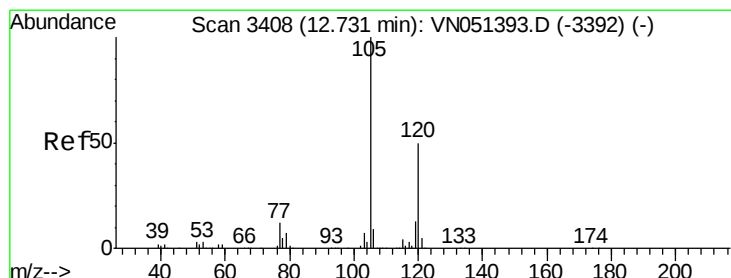
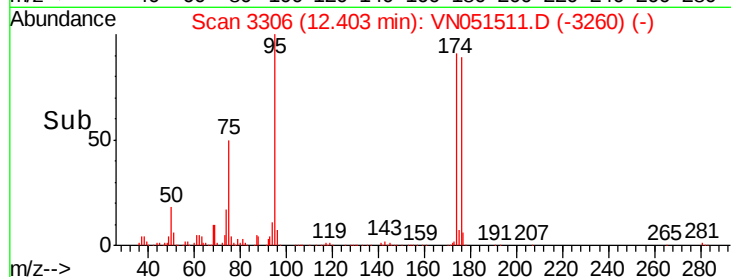
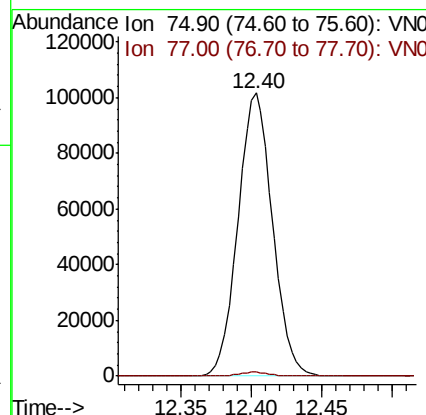
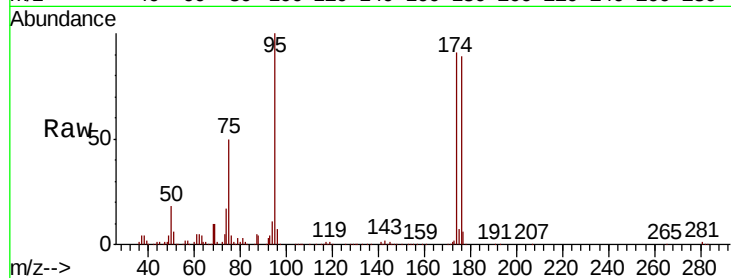




#76
 1,2,3-Trichloropropane
 Concen: 39.976 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051511.D
 Acq: 26 Sep 2018 2:57

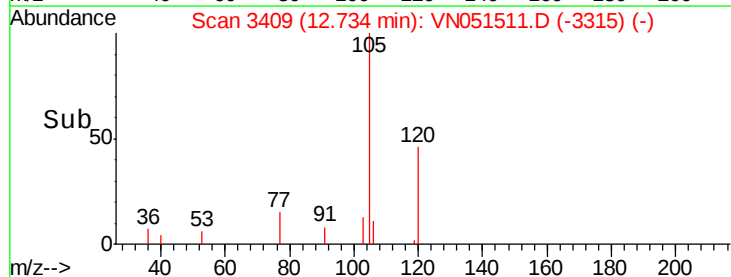
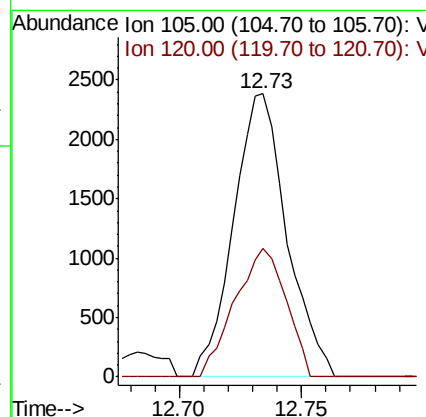
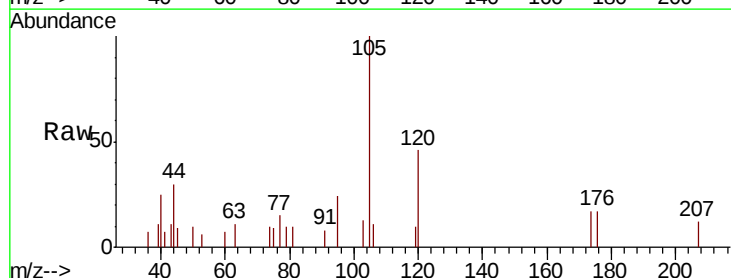
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#05

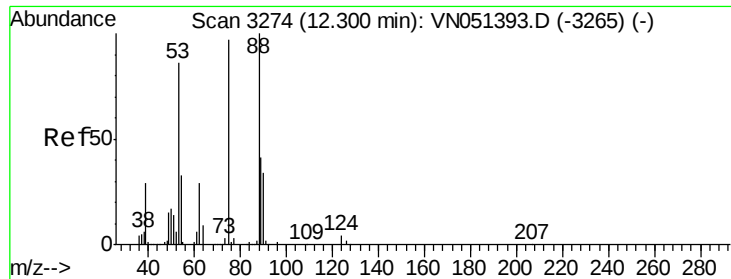
Tot Ion: 75 Resp: 174022
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.201 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051511.D
 Acq: 26 Sep 2018 2:57

Tgt Ion: 105 Resp: 3618
 Ion Ratio Lower Upper
 105 100
 120 43.6 24.8 74.4

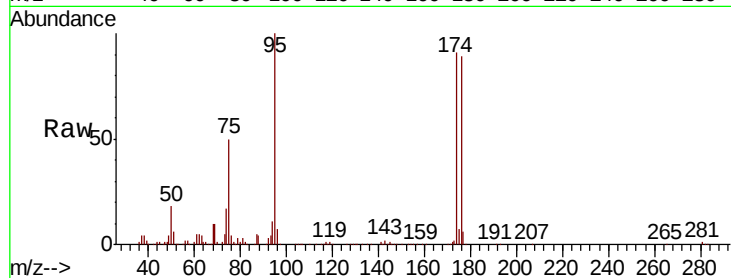




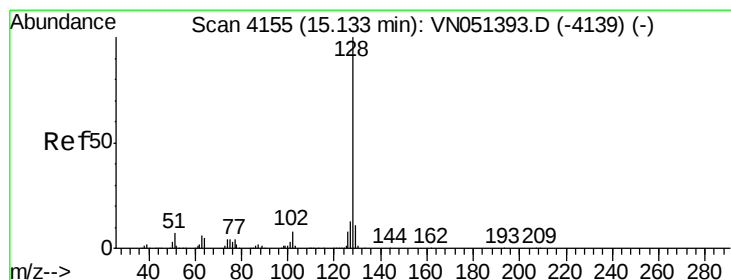
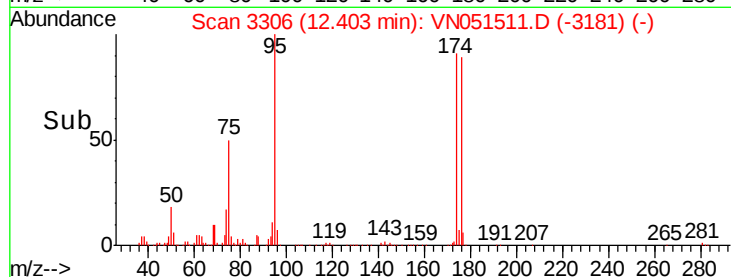
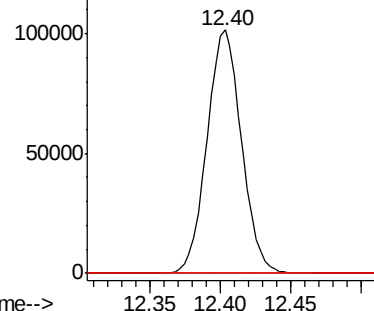
#81
trans-1,4-Dichloro-2-butene
Concen: 122.923 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051511.D
Acq: 26 Sep 2018 2:57

Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#05

Tot Ion: 75 Resp: 174022
Ion Ratio Lower Upper
75 100
53 0.3 73.9 110.9#
89 0.0 36.7 55.1#

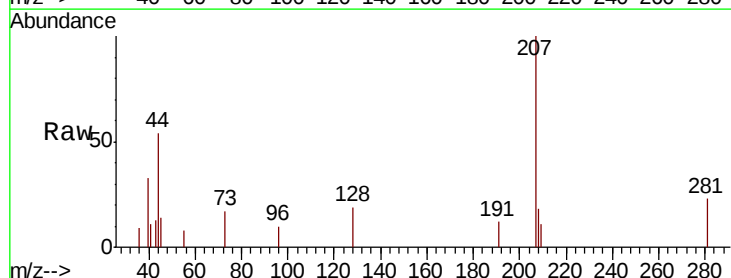


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 8.069 ug/l
RT: 15.14 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN051511.D
Acq: 26 Sep 2018 2:57

Tgt Ion: 128 Resp: 290
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 12.8#



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

