

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102618\
 Data File : VN052031.D
 Acq On : 26 Oct 2018 16:34
 Operator : MD\SY
 Sample : PB114195ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#08

Quant Time: Oct 26 23:24:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1195573	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1739087	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1628578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	732687	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	600993	56.44	ug/l	0.00
Spiked Amount			Recovery	=	112.88%	
35) Dibromofluoromethane	7.59	113	643113	57.95	ug/l	0.00
Spiked Amount			Recovery	=	115.90%	
50) Toluene-d8	10.09	98	2348405	58.56	ug/l	0.00
Spiked Amount			Recovery	=	117.12%	
62) 4-Bromofluorobenzene	12.40	95	722381	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	

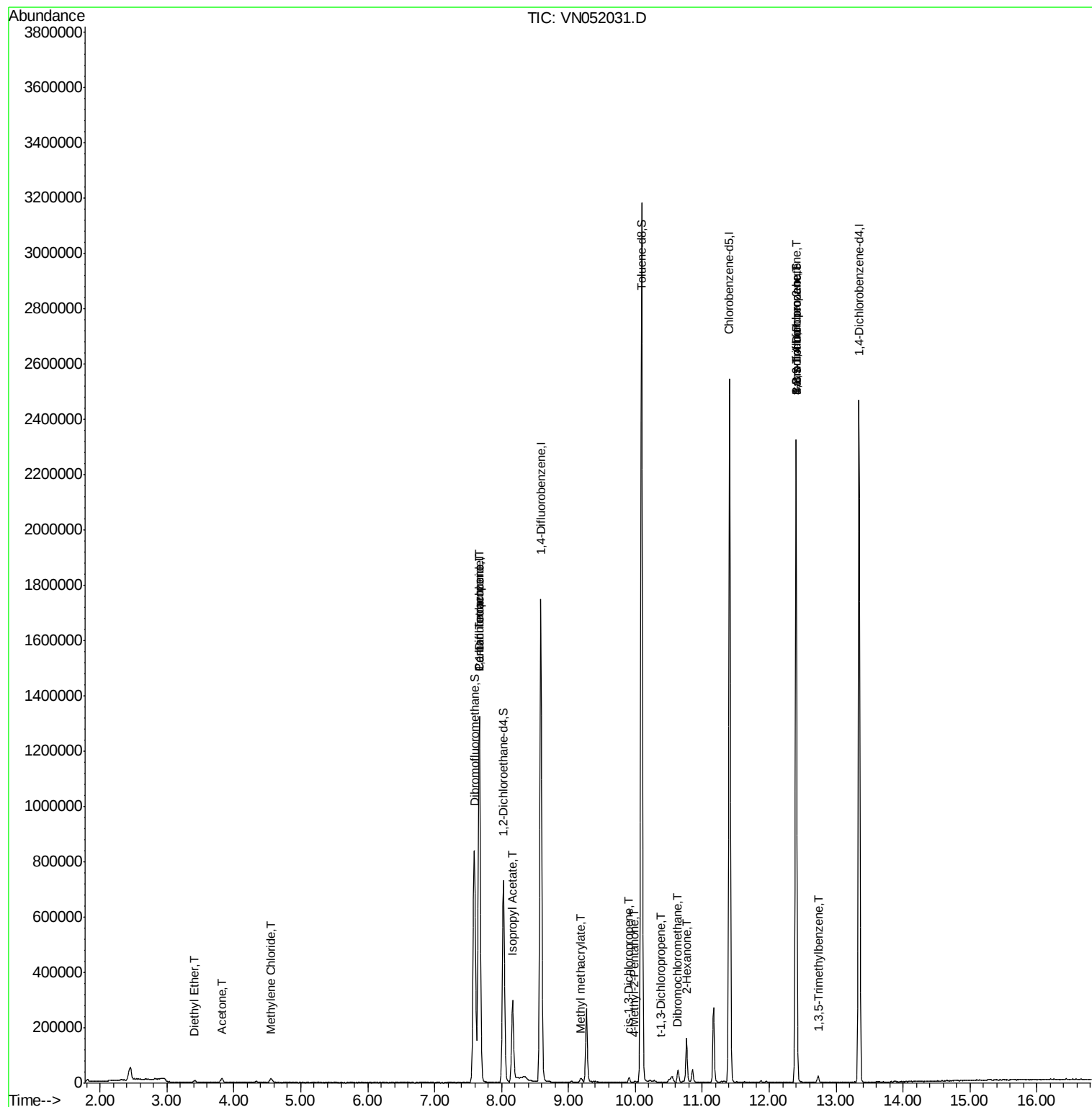
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	3481	0.718	ug/l	88
16) Acetone	3.82	43	24991	14.245	ug/l	98
18) Methyl Acetate	4.34	43	6853	Below Cal	#	87
20) Methylene Chloride	4.56	84	11886	1.155	ug/l	96
31) Cyclohexane	7.66	56	17901	Below Cal	#	22
36) 1,1-Dichloropropene	7.66	75	68733	5.152	ug/l #	47
37) Ethyl Acetate	6.93	43	131	Below Cal	#	64
38) Carbon Tetrachloride	7.66	117	104040	6.793	ug/l #	16
43) Isopropyl Acetate	8.16	43	332358	29.749	ug/l	99
48) Methyl methacrylate	9.18	41	7651	1.417	ug/l #	10
51) 4-Methyl-2-Pentanone	9.99	43	1339	0.218	ug/l	94
53) t-1,3-Dichloropropene	10.39	75	63	1.248	ug/l #	43
54) cis-1,3-Dichloropropene	9.90	75	3520	0.247	ug/l #	73
59) 2-Hexanone	10.76	43	19562	4.738	ug/l #	54
60) Dibromochloromethane	10.62	129	207	1.993	ug/l #	11
71) Bromoform	12.40	173	6501	4.381	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	349961	46.241	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	10123	0.272	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	349961	145.486	ug/l #	12

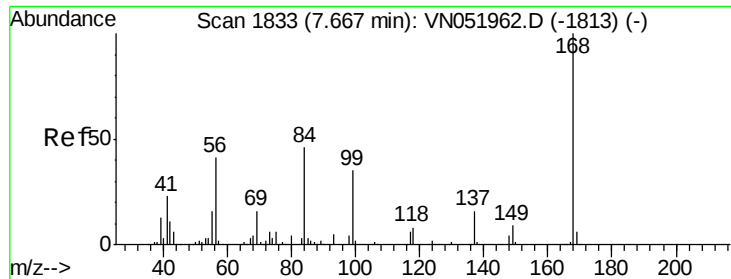
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

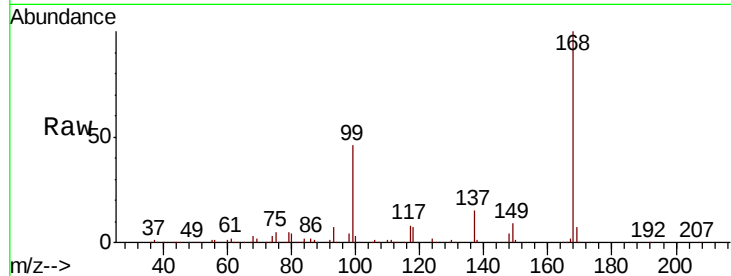
PB114195ZHE#08

Tot Ion:168 Resp: 1195573

Ion Ratio Lower Upper

168 100

99 45.6 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051962.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051962.D (-1813) (-)

7.67

600000

500000

400000

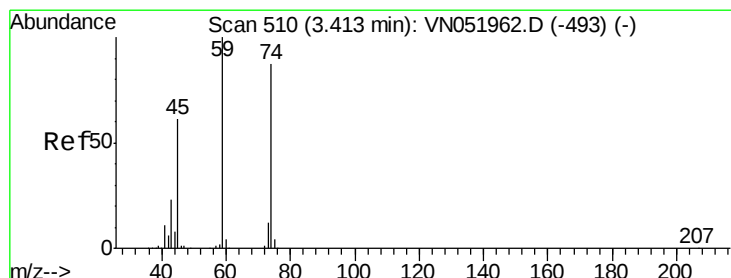
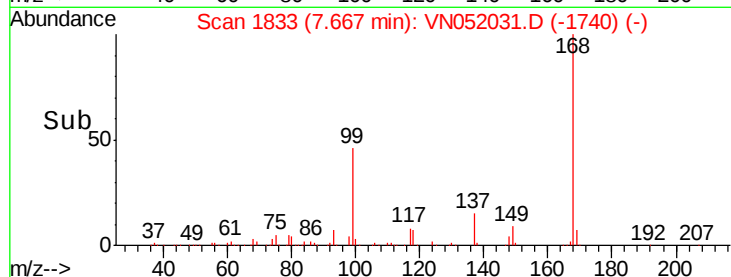
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.718 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN052031.D

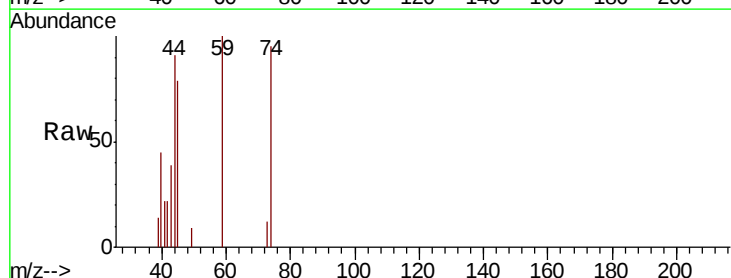
Acq: 26 Oct 2018 16:34

Tgt Ion: 74 Resp: 3481

Ion Ratio Lower Upper

74 100

45 81.1 35.5 106.5



Abundance Ion 74.00 (73.70 to 74.70): VN051962.D (-493) (-)

Ion 45.00 (44.70 to 45.70): VN051962.D (-493) (-)

3.41

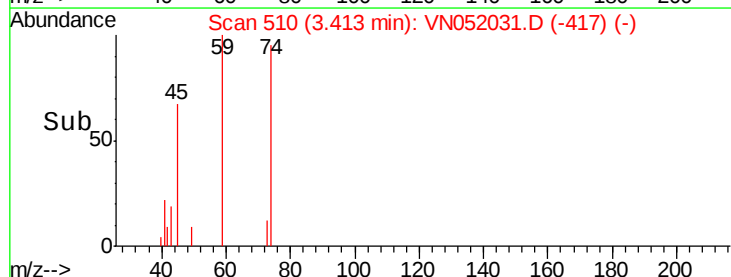
1500

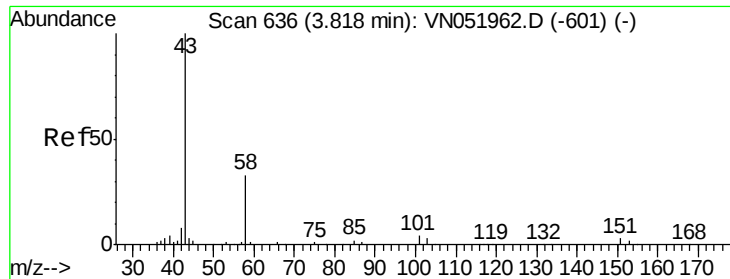
1000

500

0

Time-->





#16

Acetone

Concen: 14.245 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

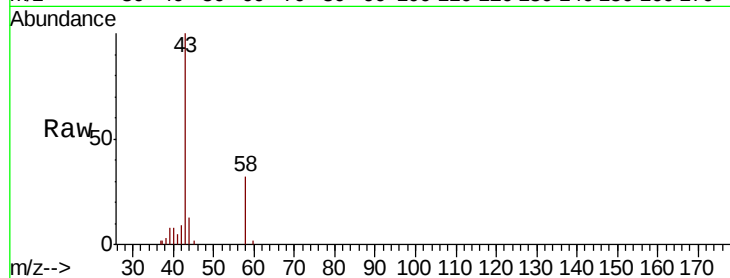
PB114195ZHE#08

Tot Ion: 43 Resp: 24991

Ion Ratio Lower Upper

43 100

58 32.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN051962.D (-601) (-)

3.82

10000

8000

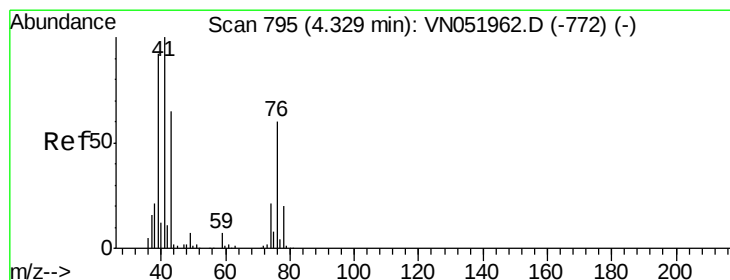
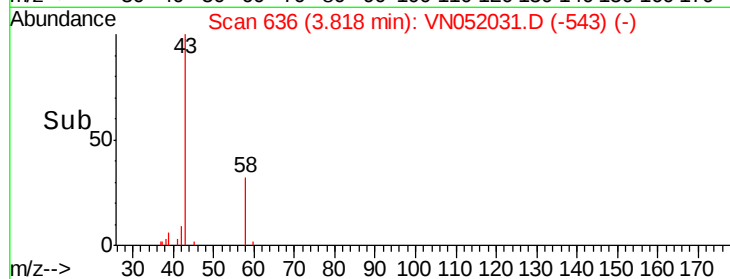
6000

4000

2000

0

Time--> 3.70 3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN052031.D

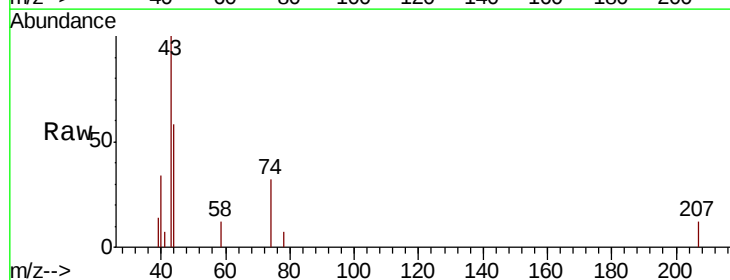
Acq: 26 Oct 2018 16:34

Tgt Ion: 43 Resp: 6853

Ion Ratio Lower Upper

43 100

74 25.0 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-772) (-)

Ion 74.00 (73.70 to 74.70): VN051962.D (-772) (-)

4.34

2500

2000

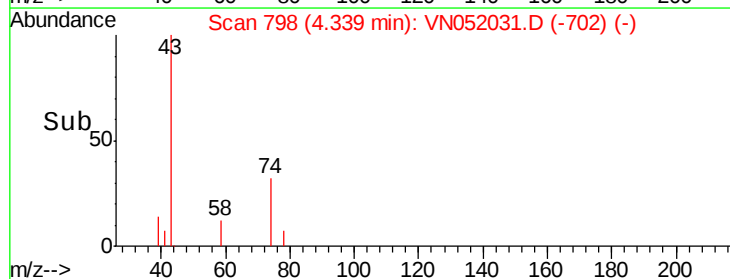
1500

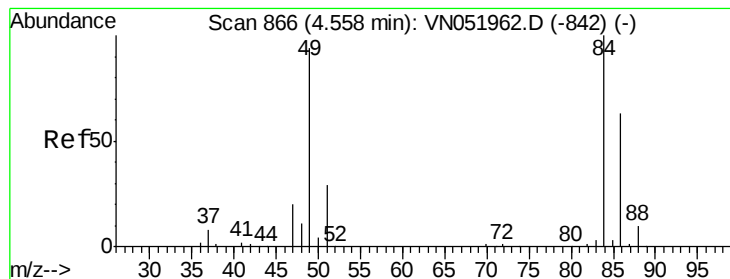
1000

500

0

Time--> 4.20 4.25 4.30 4.35 4.40





#20

Methylene Chloride

Concen: 1.155 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#08

Tot Ion: 84 Resp: 11886

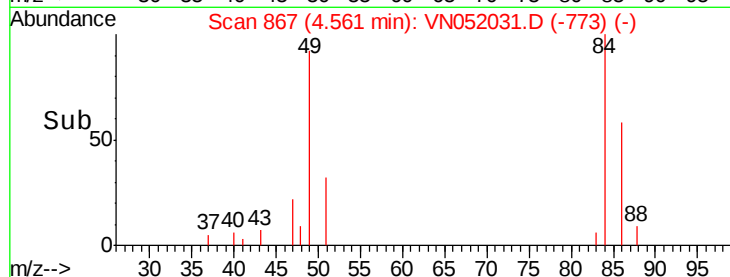
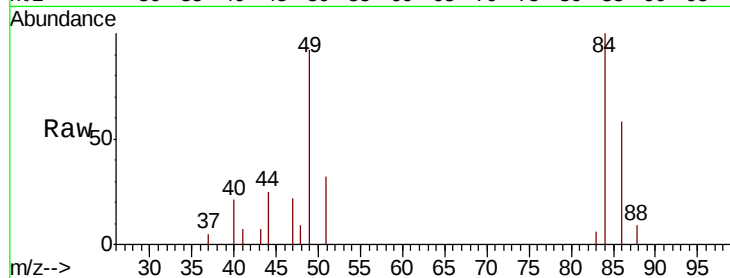
Ion Ratio Lower Upper

84 100

49 92.1 75.4 113.0

51 32.3 23.1 34.7

86 58.2 50.2 75.4

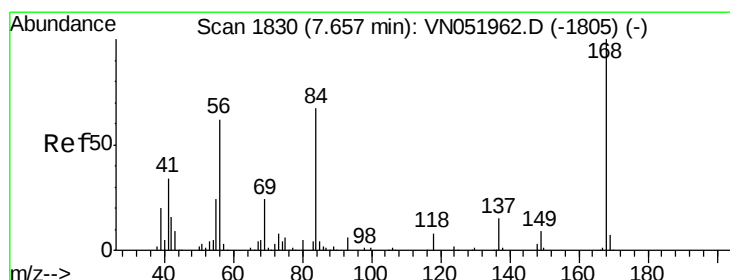
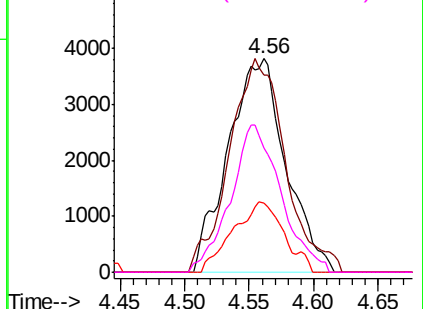


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

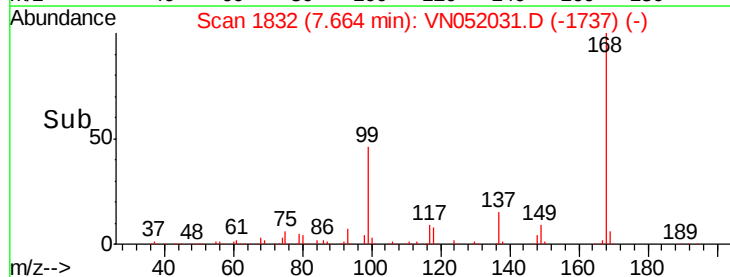
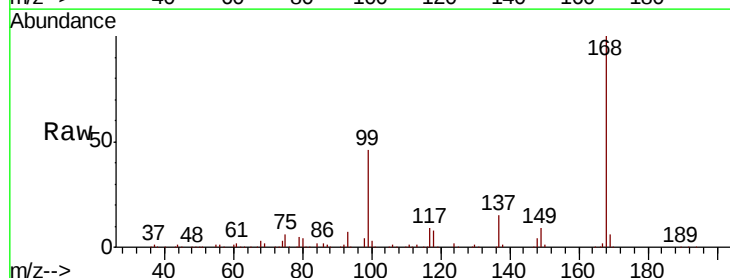
Tgt Ion: 56 Resp: 17901

Ion Ratio Lower Upper

56 100

69 175.6 31.2 46.8#

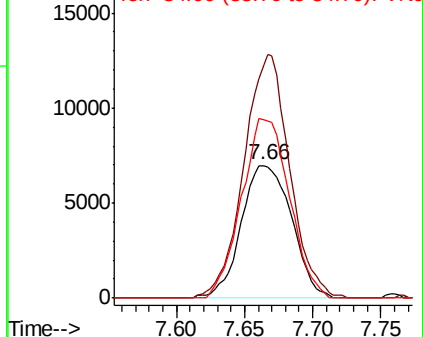
84 134.4 86.3 129.5#

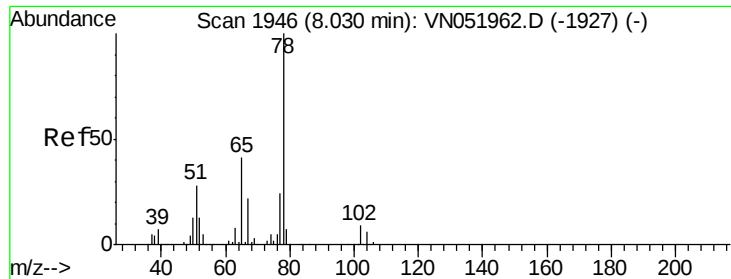


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

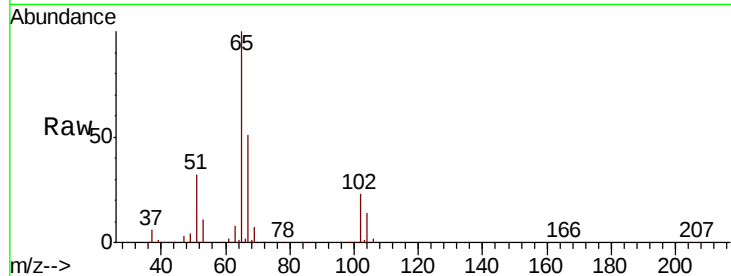
PB114195ZHE#08

Tot Ion: 65 Resp: 600993

Ion Ratio Lower Upper

65 100

67 52.8 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN051962.D (-1927) (-)

Ion 66.90 (66.60 to 67.60): VN051962.D (-1927) (-)

8.03

250000

200000

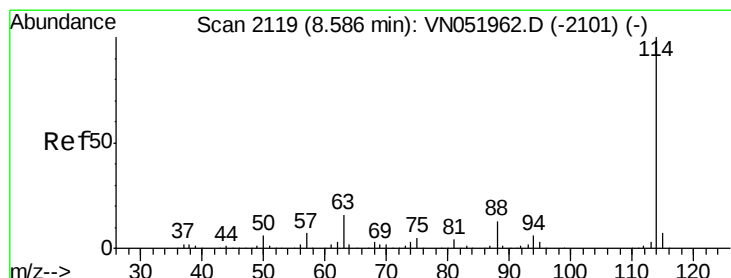
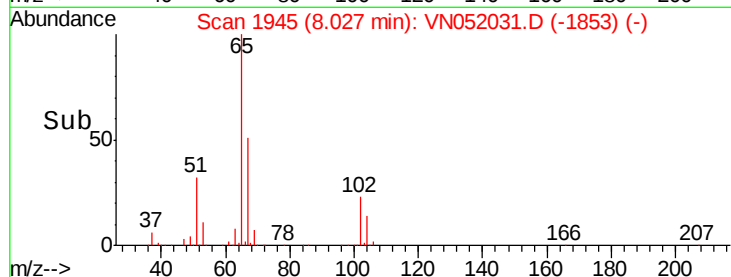
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

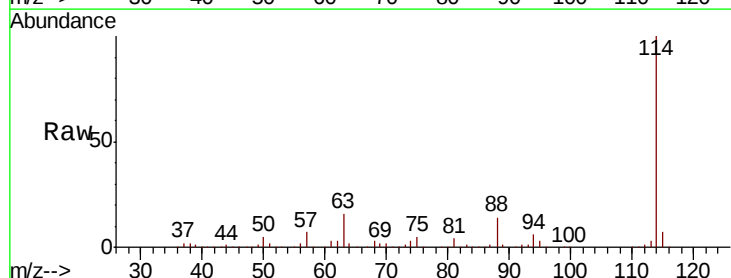
Tgt Ion: 114 Resp: 1739087

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.2

88 13.6 0.0 27.0



Abundance Ion 113.90 (113.60 to 114.60): VN051962.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051962.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN051962.D (-2101) (-)

8.59

1000000

800000

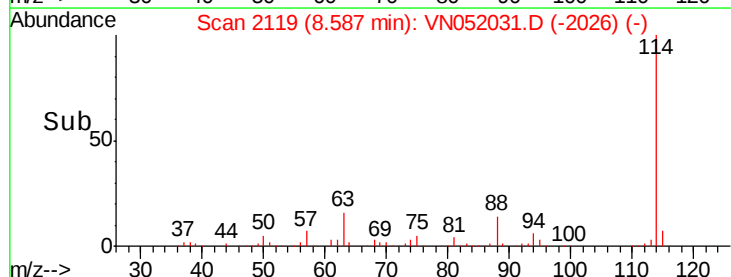
600000

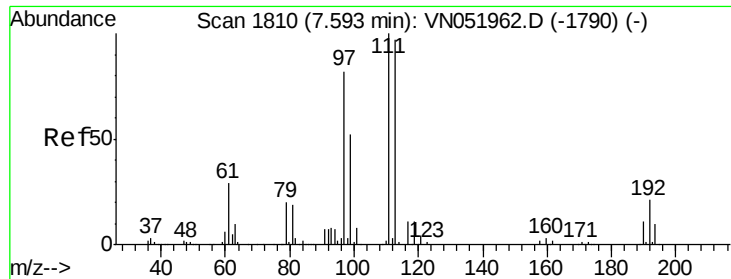
400000

200000

0

Time-->

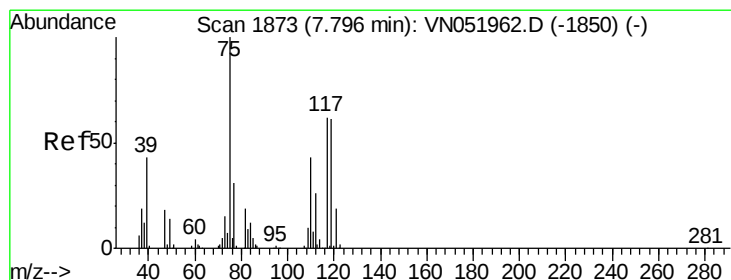
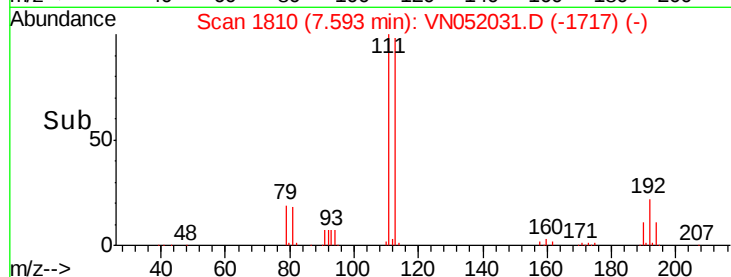
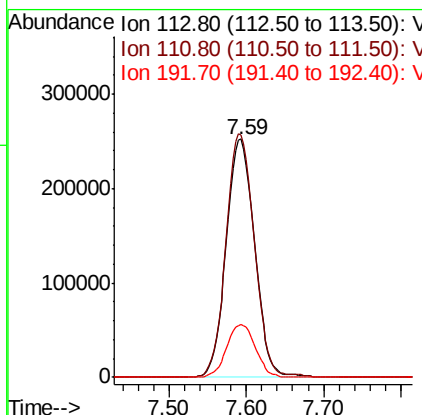
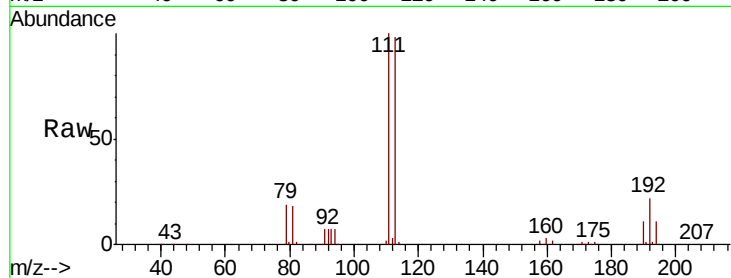




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052031.D
 Acq: 26 Oct 2018 16:34

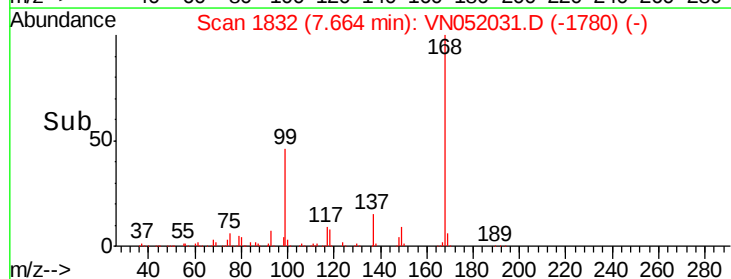
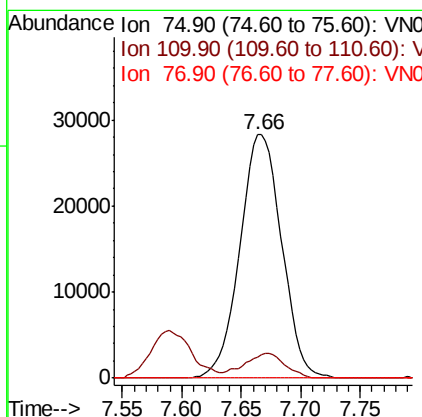
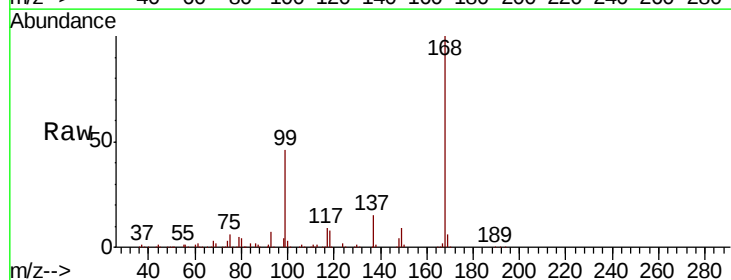
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#08

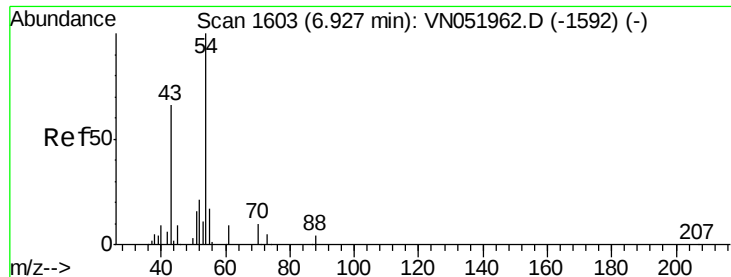
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.7	121.1
192	22.6	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.152 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052031.D
 Acq: 26 Oct 2018 16:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	20.9	62.8#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.93 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#08

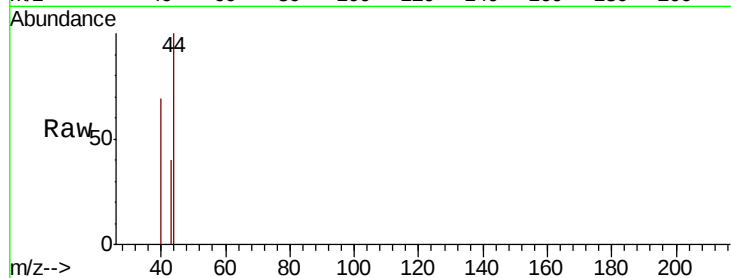
Tot Ion: 43 Resp: 131

Ion Ratio Lower Upper

43 100

61 0.0 13.5 20.3#

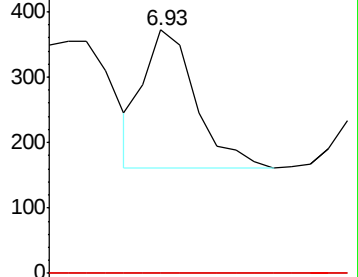
70 0.0 9.8 14.6#



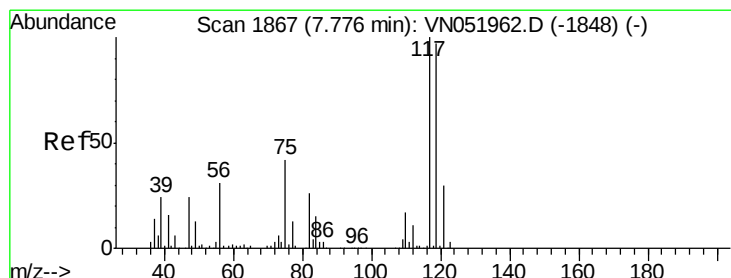
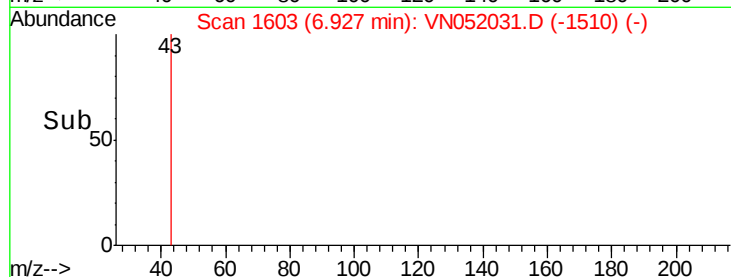
Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051962.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051962.D (-1592) (-)



Time-->



#38

Carbon Tetrachloride

Concen: 6.793 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

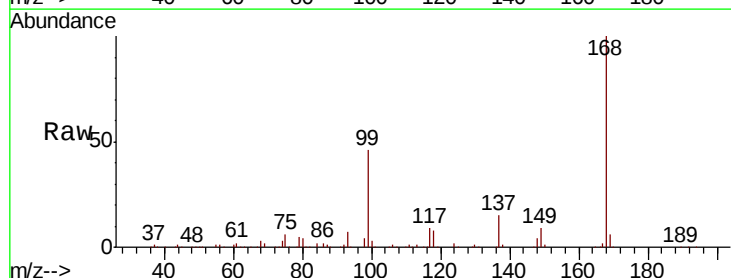
Tgt Ion: 117 Resp: 104040

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

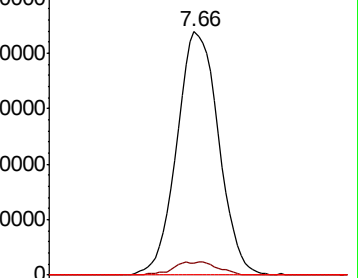
121 0.0 24.2 36.4#



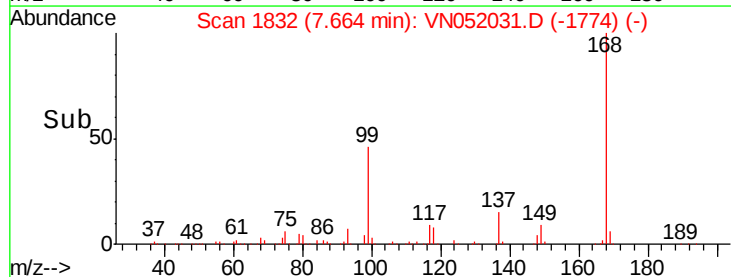
Abundance Ion 116.80 (116.50 to 117.50): VN051962.D (-1848) (-)

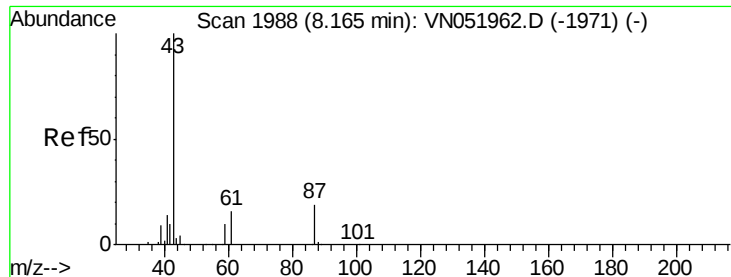
Ion 118.80 (118.50 to 119.50): VN051962.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051962.D (-1848) (-)



Time-->



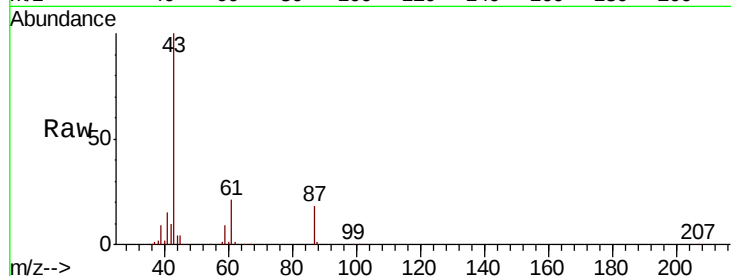


#43

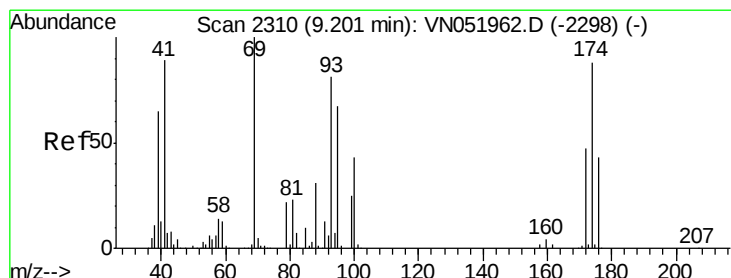
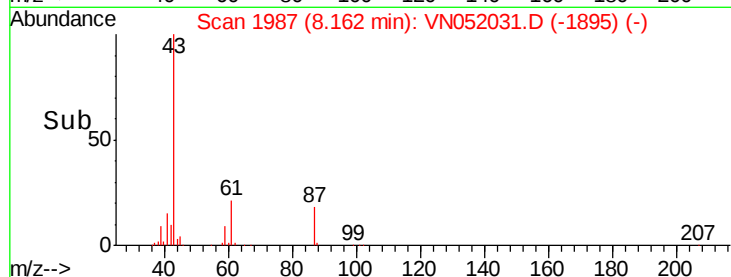
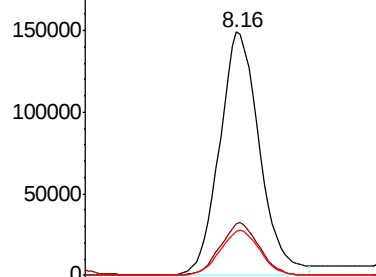
Isopropyl Acetate
 Concen: 29.749 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. -0.00 min
 Lab File: VN052031.D
 Acq: 26 Oct 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#08

Tot Ion: 43 Resp: 332358
 Ion Ratio Lower Upper
 43 100
 61 20.9 17.2 25.8
 87 18.3 15.2 22.8



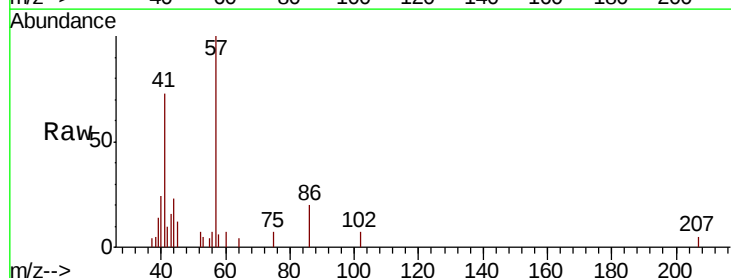
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



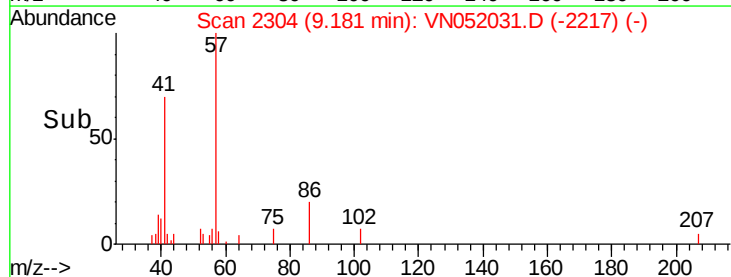
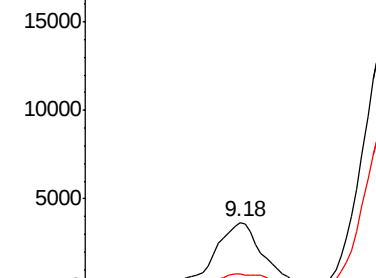
#48

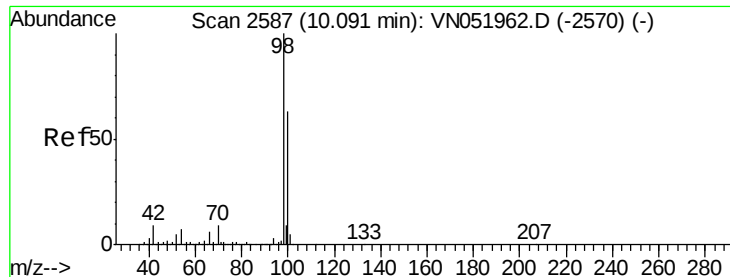
Methyl methacrylate
 Concen: 1.417 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN052031.D
 Acq: 26 Oct 2018 16:34

Tgt Ion: 41 Resp: 7651
 Ion Ratio Lower Upper
 41 100
 69 0.0 92.2 138.4#
 39 20.2 60.2 90.4#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

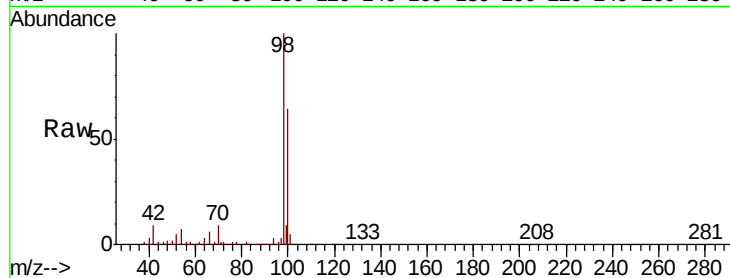
PB114195ZHE#08

Tot Ion: 98 Resp: 2348405

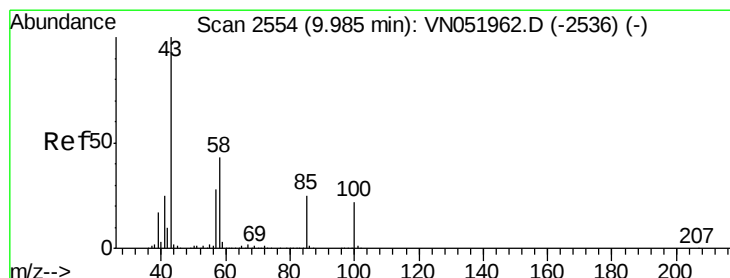
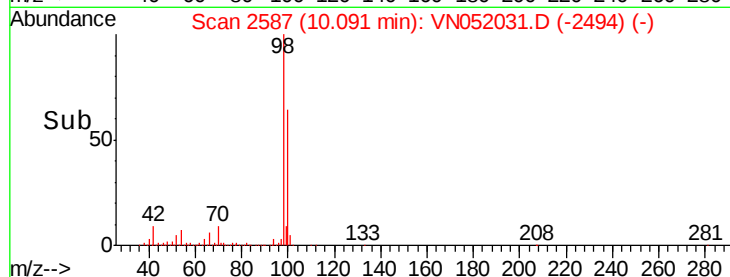
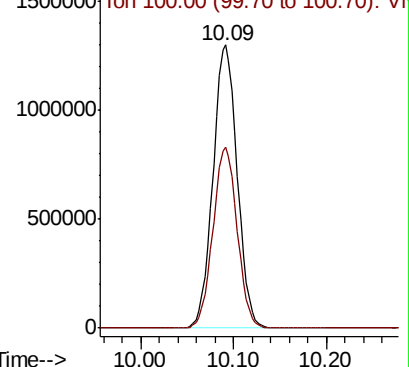
Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN051962.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.218 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052031.D

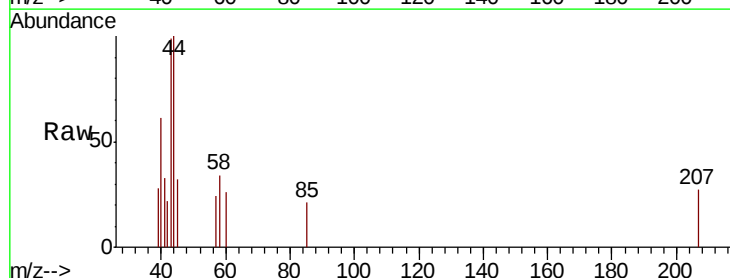
Acq: 26 Oct 2018 16:34

Tgt Ion: 43 Resp: 1339

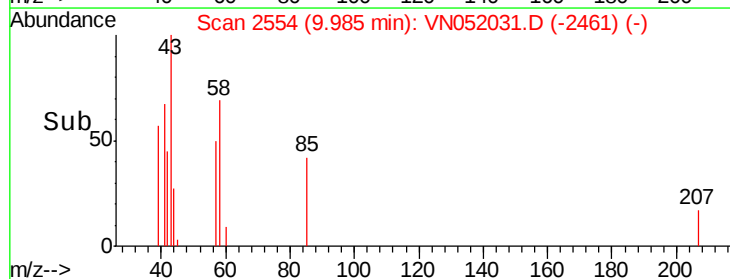
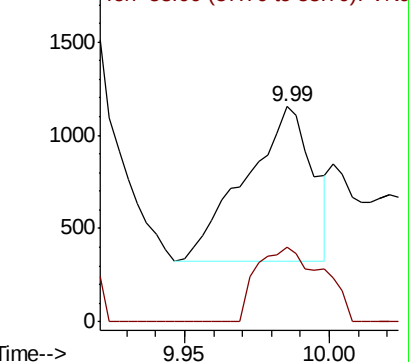
Ion Ratio Lower Upper

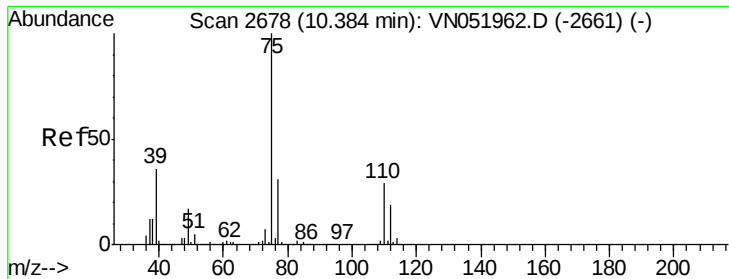
43 100

58 47.4 34.8 52.2



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-2536) (-)





#53

t-1,3-Dichloropropene

Concen: 1.248 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

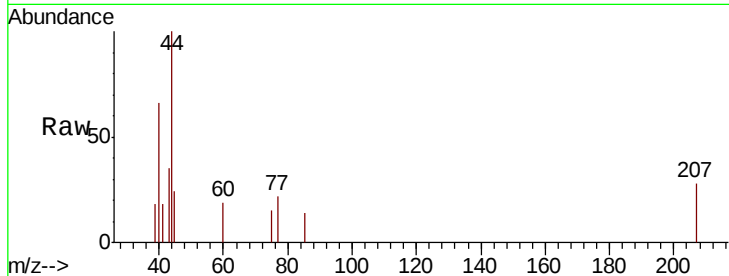
PB114195ZHE#08

Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

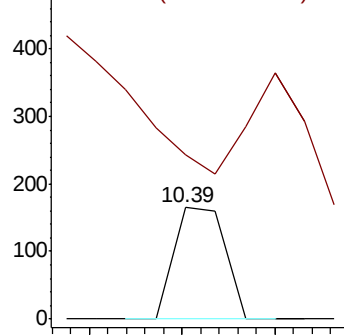
75 100

77 0.0 25.0 37.4#

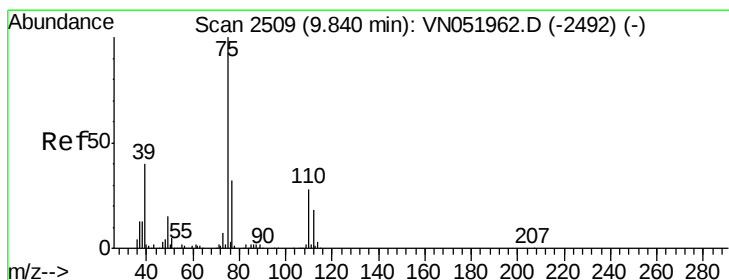
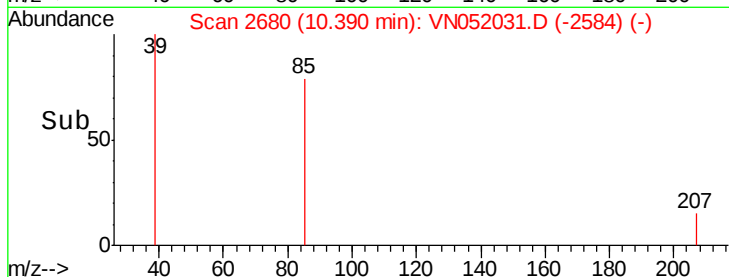


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.247 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

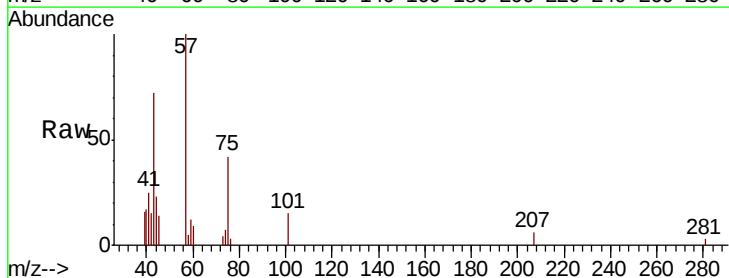
Tgt Ion: 75 Resp: 3520

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

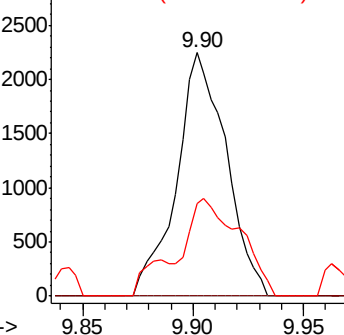
39 38.1 32.0 48.0



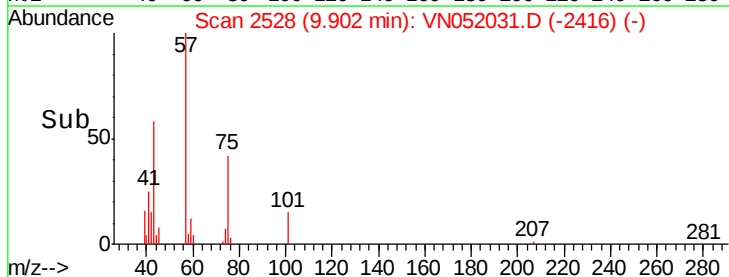
Abundance Ion 74.90 (74.60 to 75.60): VN0

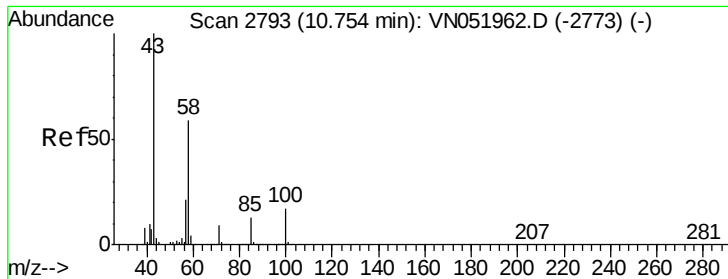
Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->

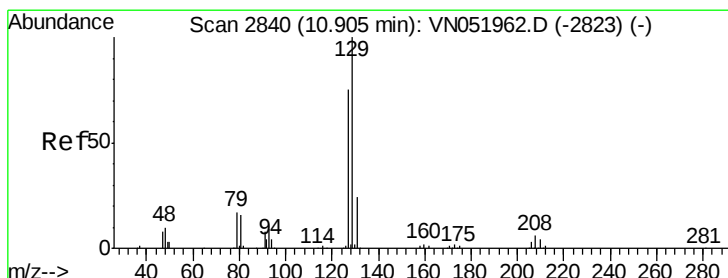
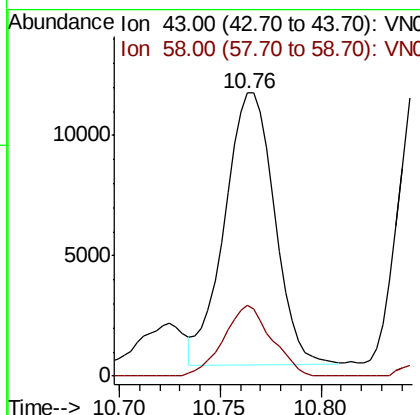
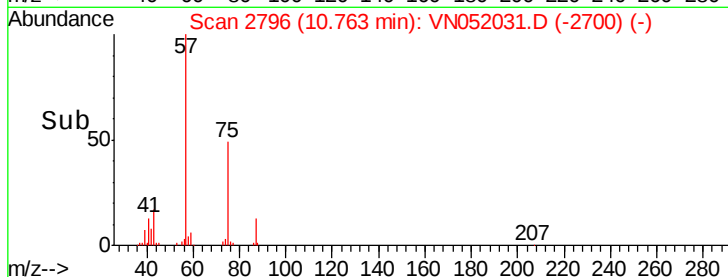
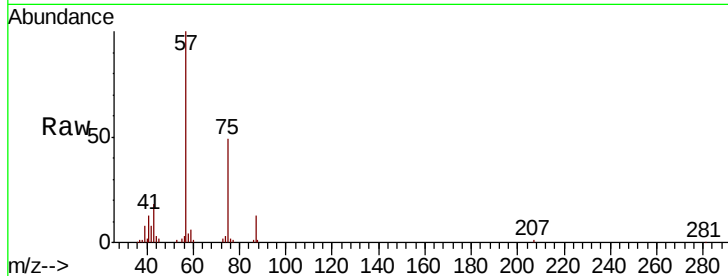




#59
2-Hexanone
Concen: 4.738 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052031.D
Acq: 26 Oct 2018 16:34

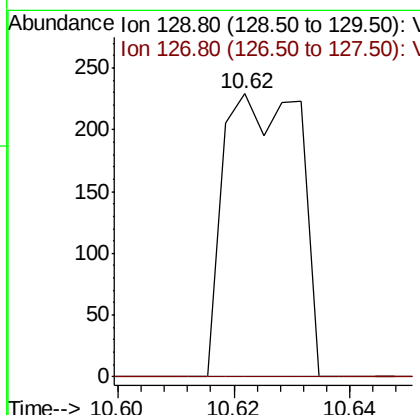
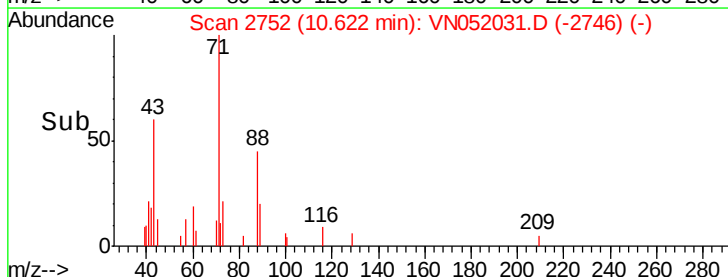
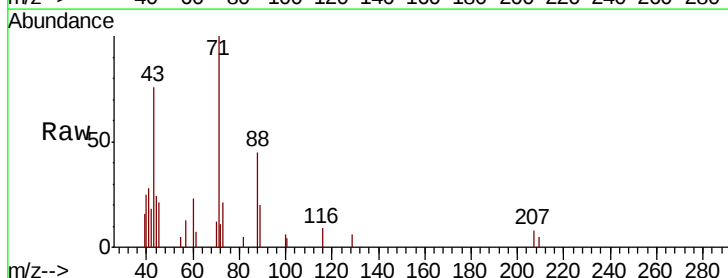
Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#08

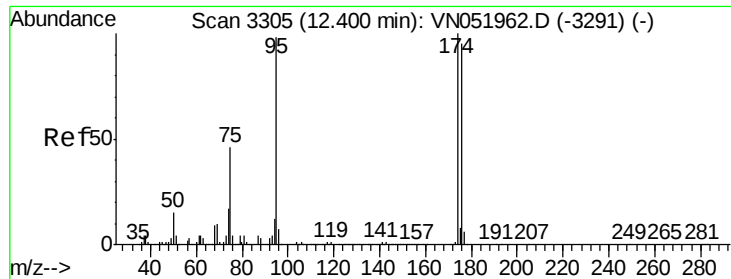
Tot Ion: 43 Resp: 19562
Ion Ratio Lower Upper
43 100
58 25.0 29.9 89.8#



#60
Dibromochloromethane
Concen: 1.993 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.28 min
Lab File: VN052031.D
Acq: 26 Oct 2018 16:34

Tgt Ion: 129 Resp: 207
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#

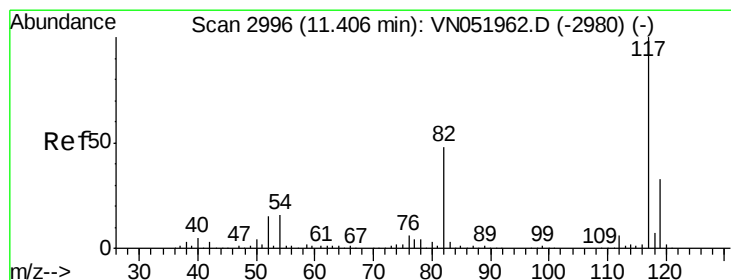
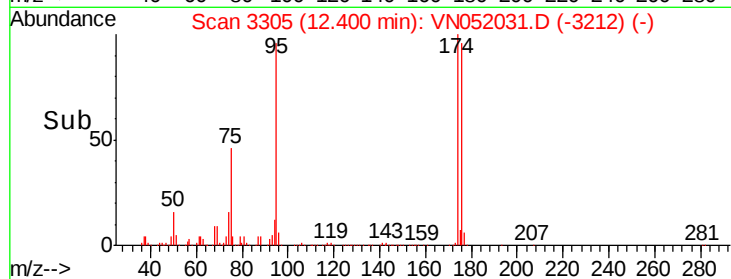
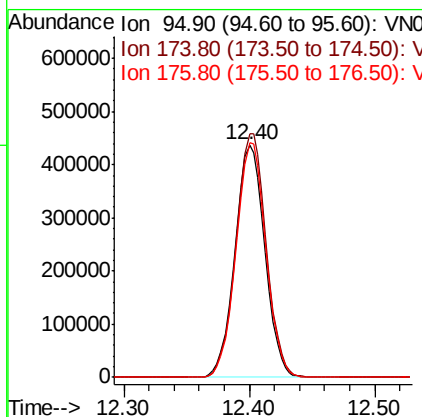
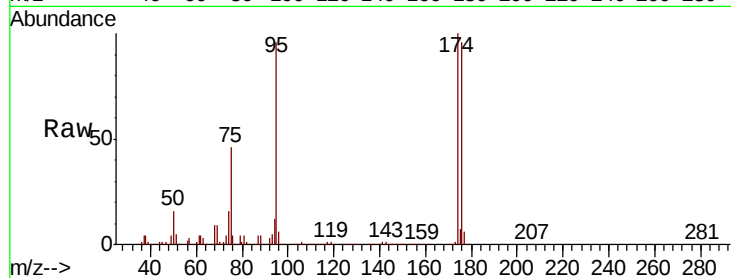




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052031.D
Acq: 26 Oct 2018 16:34

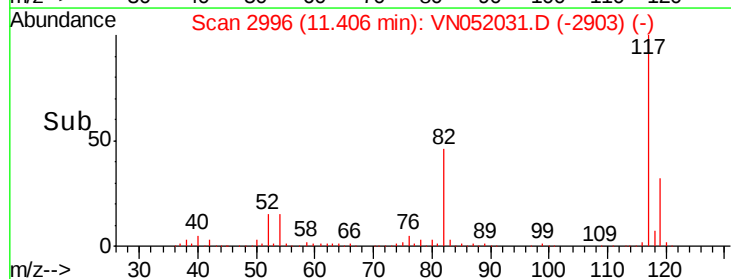
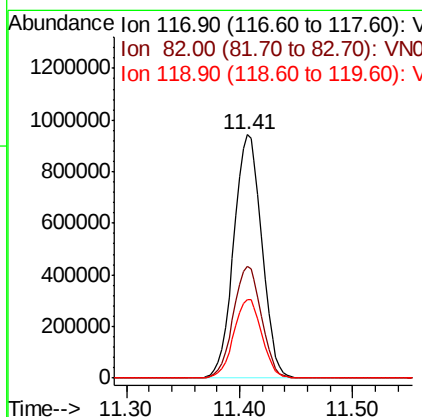
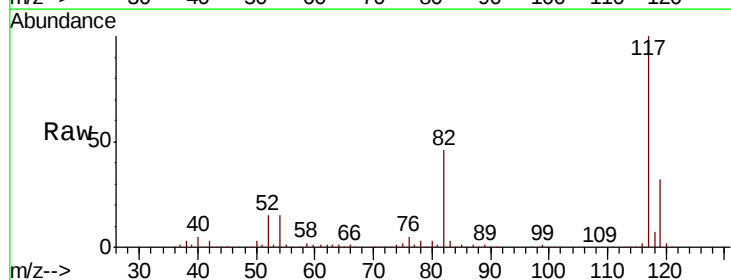
Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#08

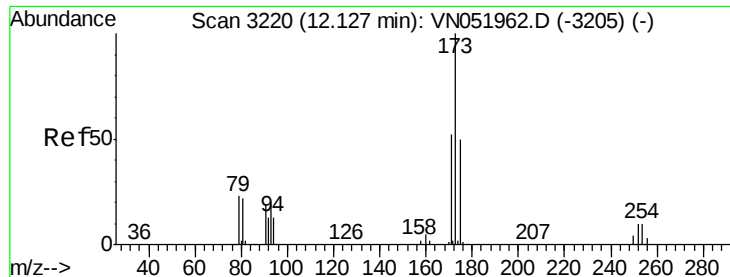
Tot Ion: 95 Resp: 722381
Ion Ratio Lower Upper
95 100
174 105.8 0.0 206.0
176 100.8 0.0 198.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052031.D
Acq: 26 Oct 2018 16:34

Tgt Ion: 117 Resp: 1628578
Ion Ratio Lower Upper
117 100
82 46.1 38.1 57.1
119 32.4 26.4 39.6





#71

Bromoform

Concen: 4.381 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#08

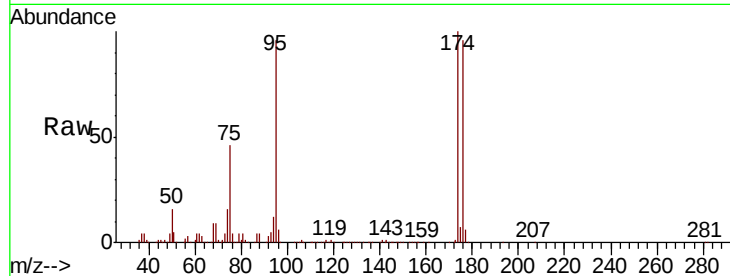
Tot Ion:173 Resp: 6501

Ion Ratio Lower Upper

173 100

175 740.0 24.6 74.0#

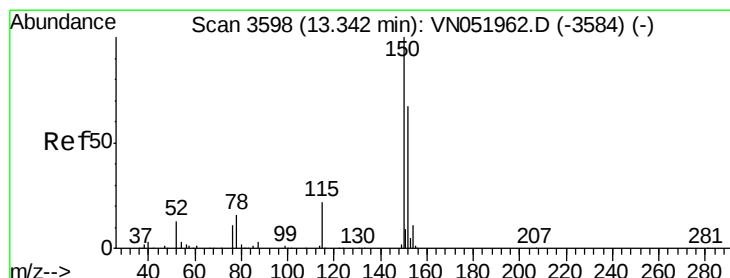
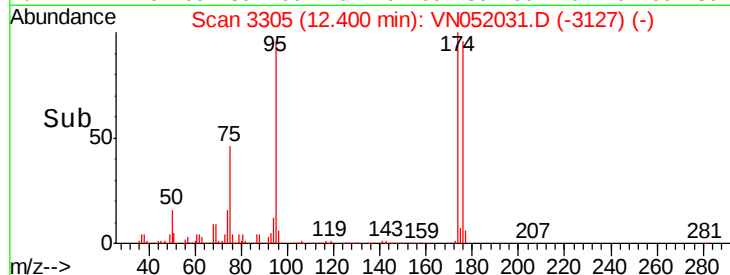
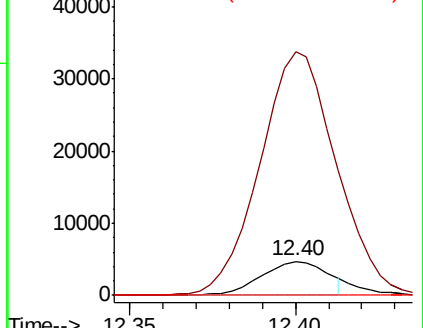
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

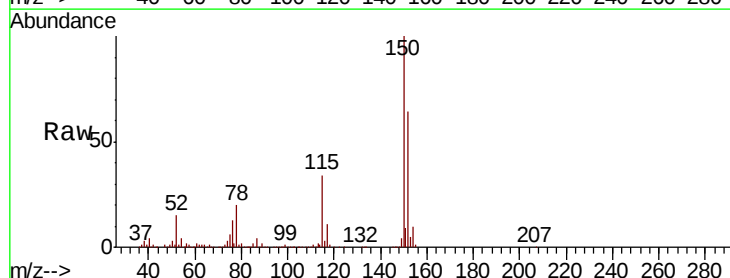
Tgt Ion:152 Resp: 732687

Ion Ratio Lower Upper

152 100

115 52.5 25.8 77.3

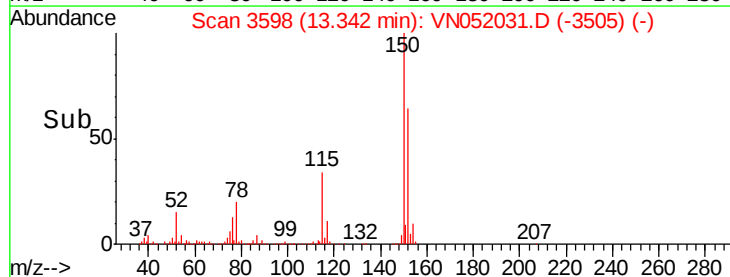
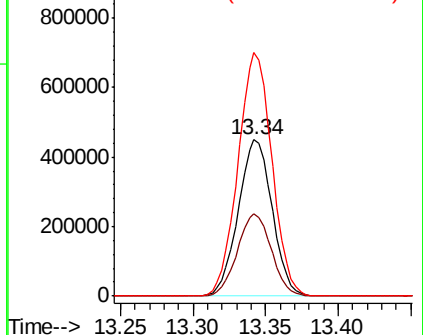
150 155.6 0.0 344.4

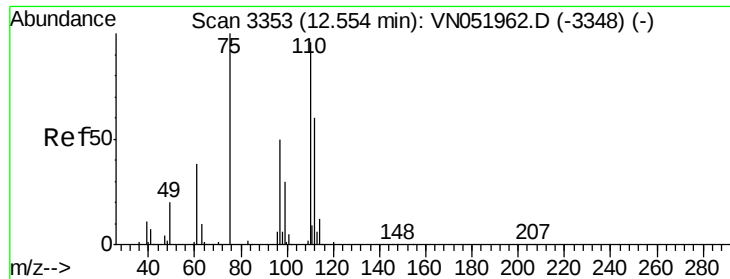


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 46.241 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

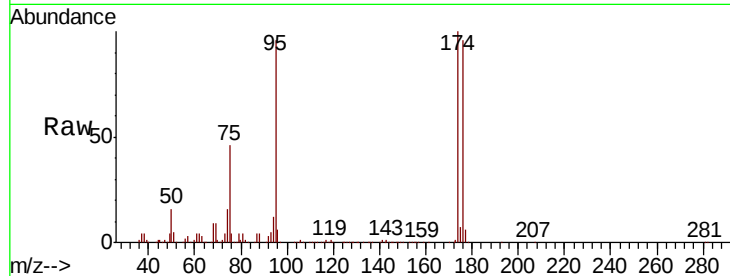
PB114195ZHE#08

Tot Ion: 75 Resp: 349961

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051962.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051962.D (-3348) (-)

250000

200000

150000

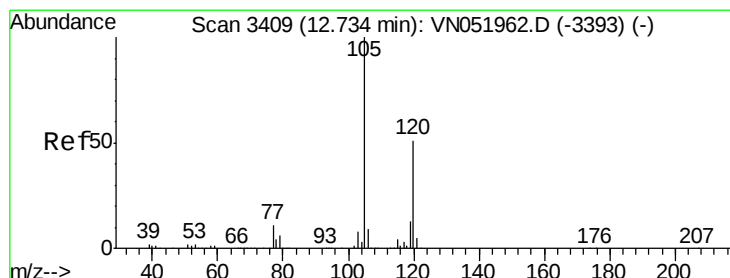
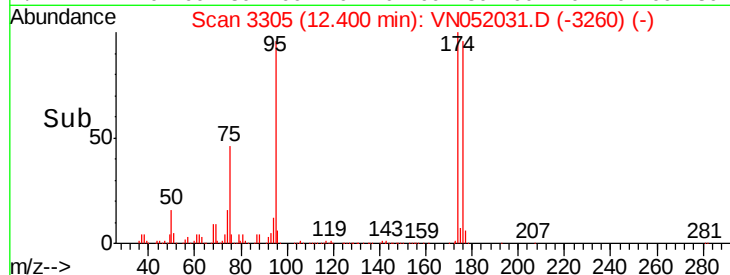
100000

50000

0

12.35 12.40 12.45 12.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.272 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052031.D

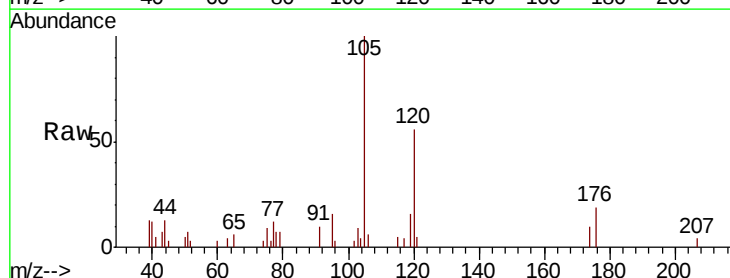
Acq: 26 Oct 2018 16:34

Tgt Ion: 105 Resp: 10123

Ion Ratio Lower Upper

105 100

120 53.9 25.7 77.1



Abundance Ion 105.00 (104.70 to 105.70): VN051962.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN051962.D (-3393) (-)

6000

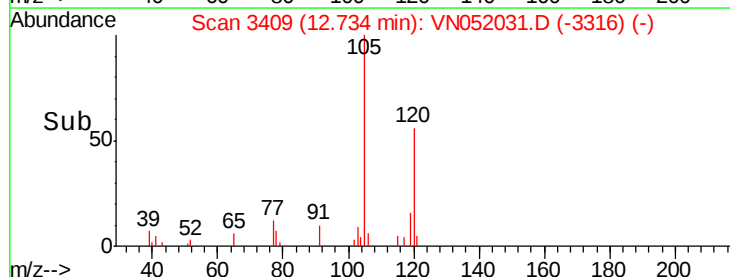
4000

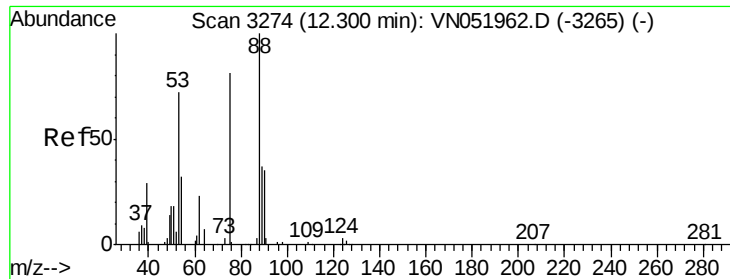
2000

0

12.70 12.73 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 145.486 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052031.D

Acq: 26 Oct 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#08

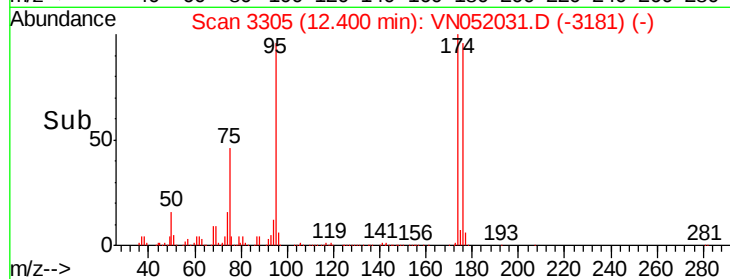
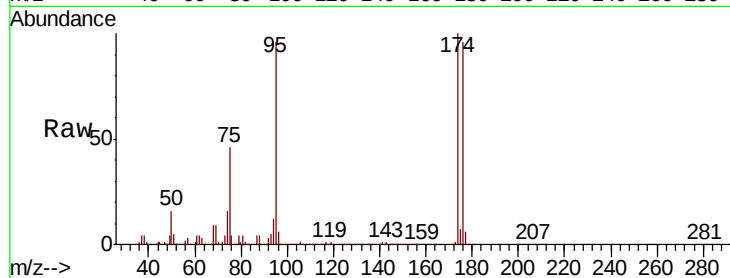
Tot Ion: 75 Resp: 349961

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

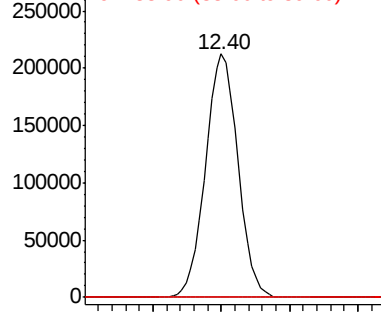
89 0.0 41.6 62.4#



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



Time-->