

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011619\
 Data File : VN053428.D
 Acq On : 16 Jan 2019 16:35
 Operator : JC/SP
 Sample : PB116405ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116405ZHE#11

Quant Time: Jan 17 03:57:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	951615	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1486027	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1420993	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	641737	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	495347	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
35) Dibromofluoromethane	7.59	113	431838	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
50) Toluene-d8	10.09	98	1873697	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
62) 4-Bromofluorobenzene	12.40	95	653376	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	

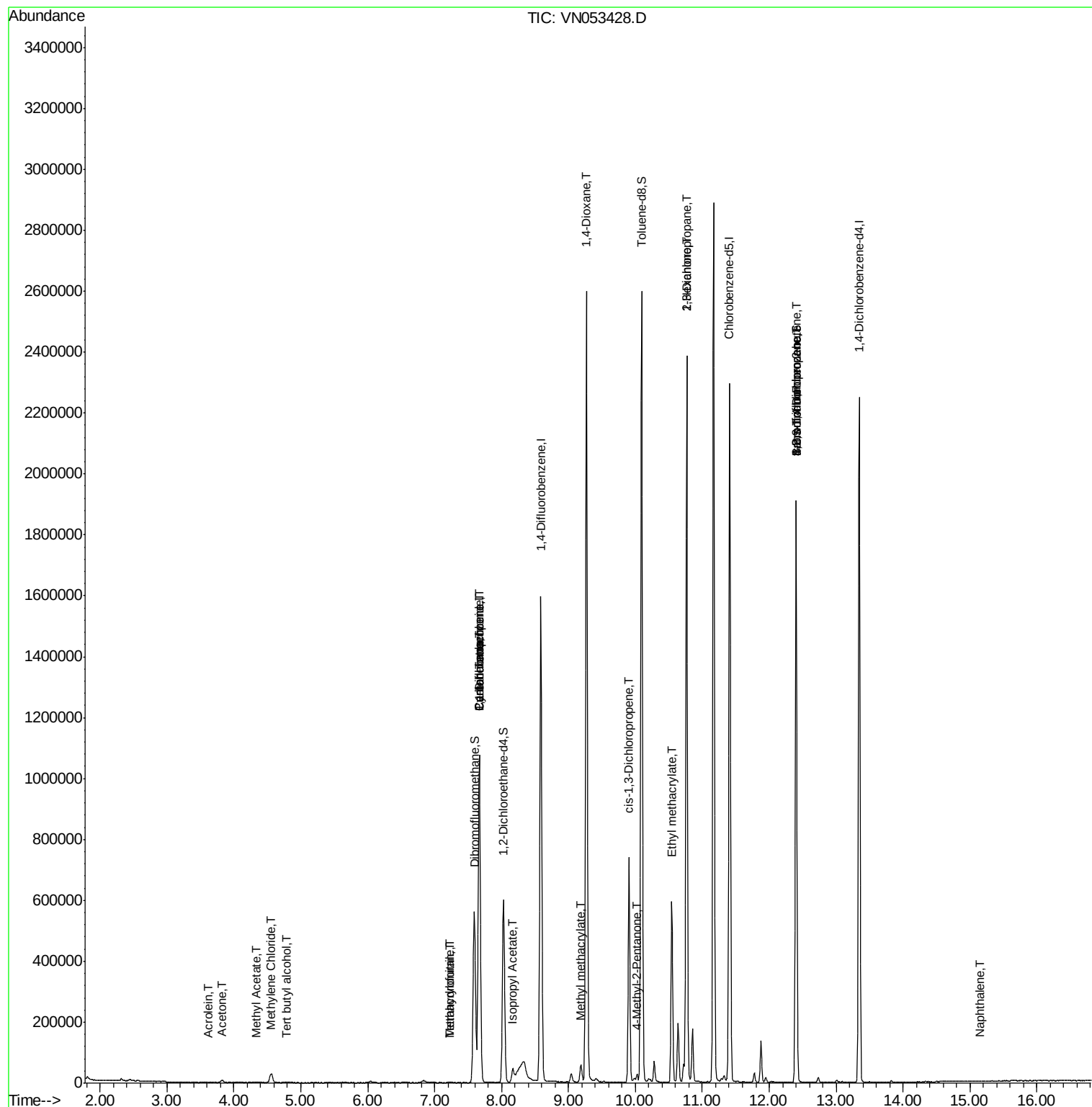
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	471	1.023	ug/l #	72
13) Acrolein	3.62	56	60	22.798	ug/l #	14
16) Acetone	3.82	43	13527	6.130	ug/l	93
18) Methyl Acetate	4.34	43	3813	0.513	ug/l #	76
20) Methylene Chloride	4.56	84	23528	2.335	ug/l	96
29) Tetrahydrofuran	7.22	42	1778	0.803	ug/l #	62
31) Cyclohexane	7.66	56	15283	0.704	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	61524	4.546	ug/l #	49
38) Carbon Tetrachloride	7.67	117	83569	6.522	ug/l #	16
41) Methacrylonitrile	7.23	41	627	0.801	ug/l #	34
43) Isopropyl Acetate	8.17	43	63887	4.563	ug/l #	79
48) Methyl methacrylate	9.18	41	21535	2.979	ug/l #	21
49) 1,4-Dioxane	9.27	88	354	5.014	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	21650	2.833	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	139637	8.929	ug/l #	60
56) Ethyl methacrylate	10.55	69	2319	2.236	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	24638	1.618	ug/l #	43
59) 2-Hexanone	10.76	43	331810	61.846	ug/l #	50
71) Bromoform	12.40	173	4868	0.676	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	306862	36.286	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	306862	89.710	ug/l #	15
95) Naphthalene	15.14	128	263	3.954	ug/l #	69

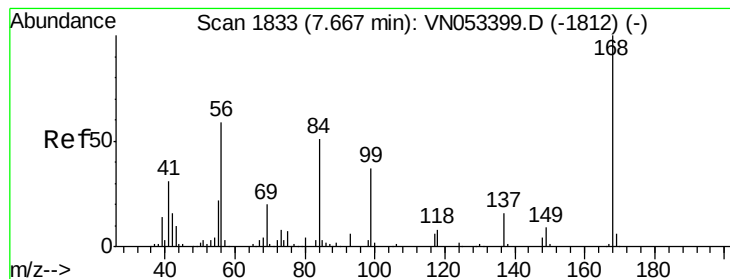
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 17 03:57:25 2019
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
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: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

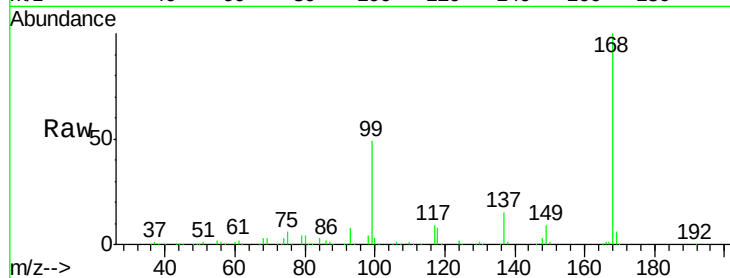
PB116405ZHE#11

Tot Ion:168 Resp: 951615

Ion Ratio Lower Upper

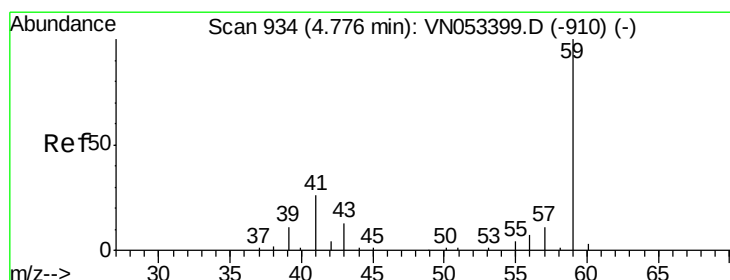
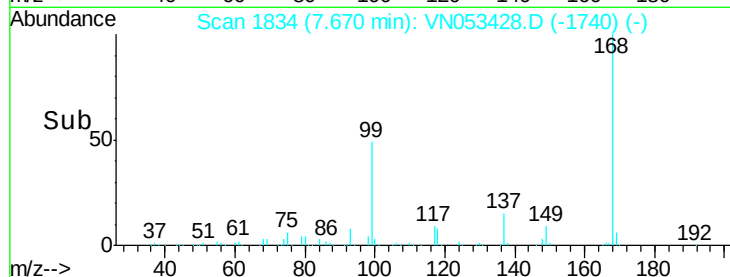
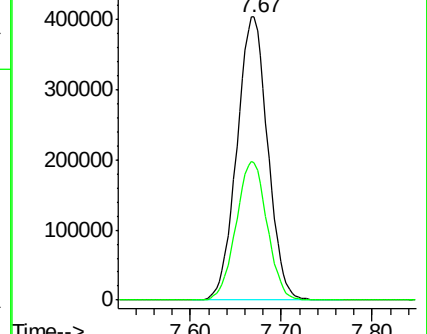
168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.023 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053428.D

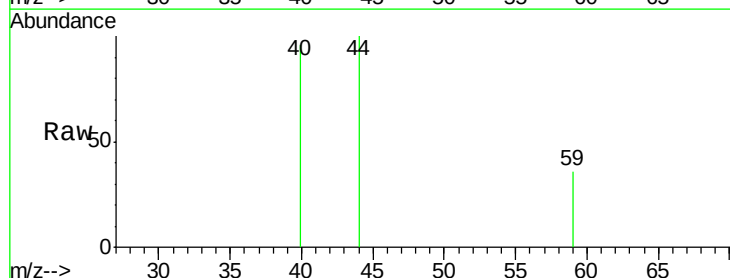
Acq: 16 Jan 2019 16:35

Tgt Ion: 59 Resp: 471

Ion Ratio Lower Upper

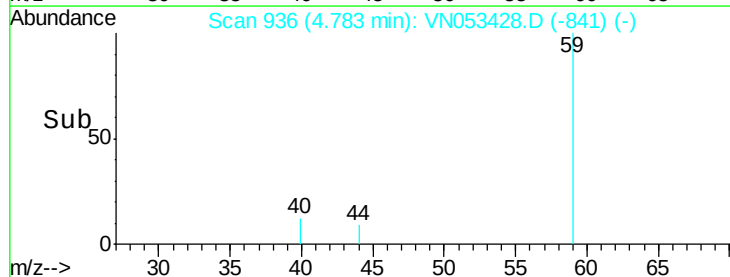
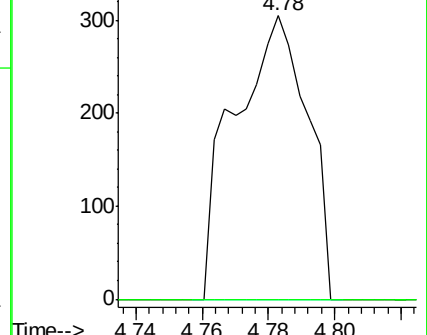
59 100

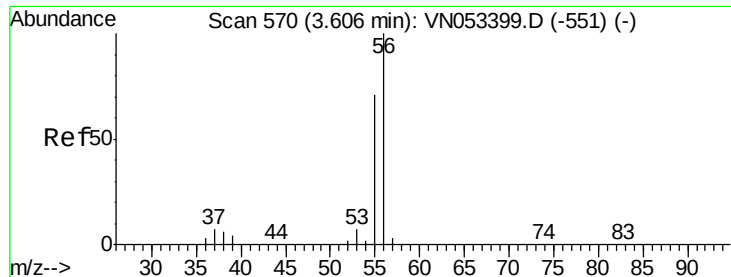
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 22.798 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

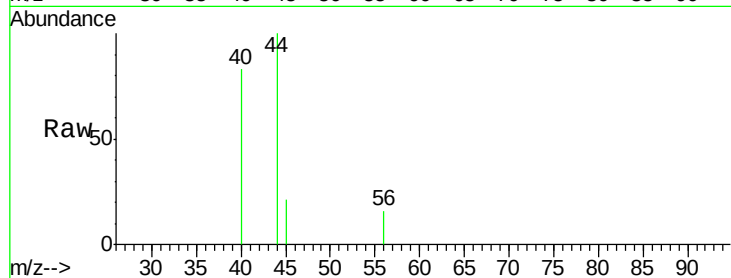
PB116405ZHE#11

Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

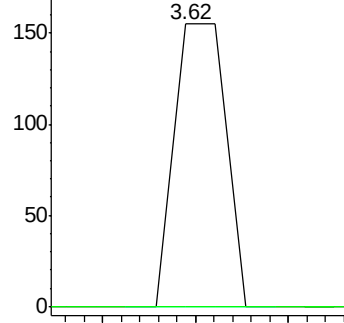
56 100

55 0.0 57.4 86.0#

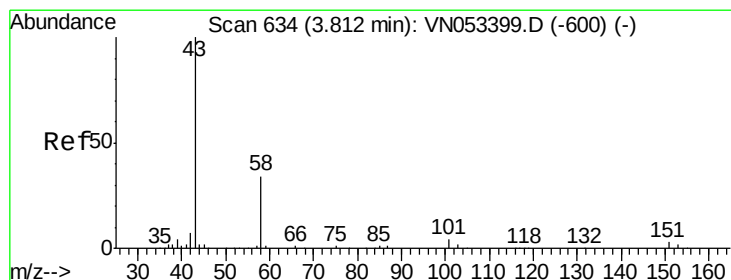
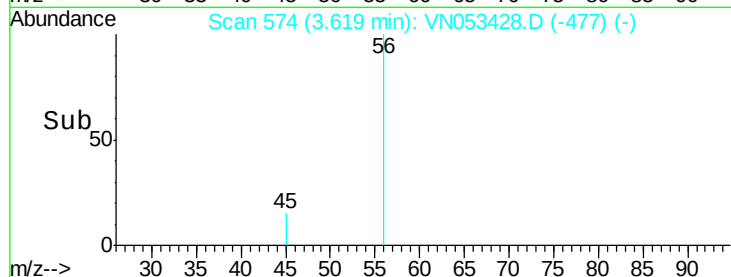


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 6.130 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053428.D

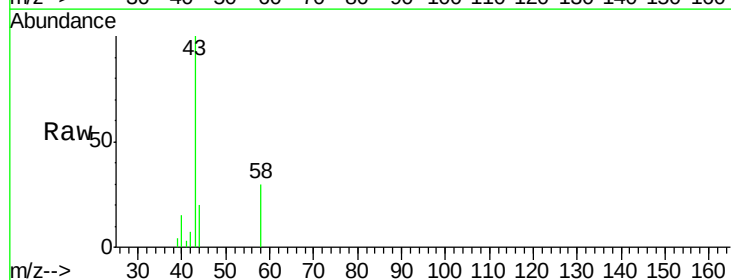
Acq: 16 Jan 2019 16:35

Tgt Ion: 43 Resp: 13527

Ion Ratio Lower Upper

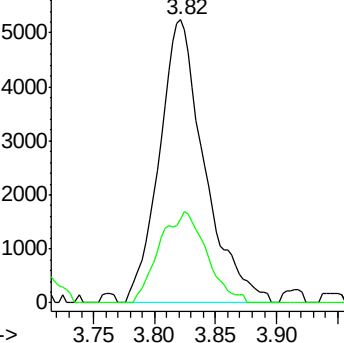
43 100

58 29.8 27.1 40.7

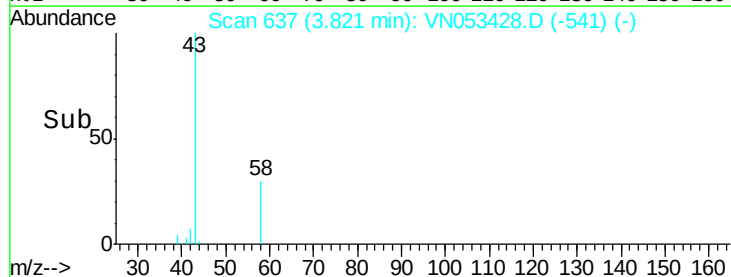


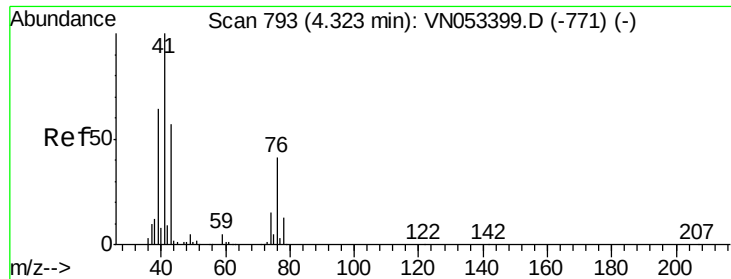
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

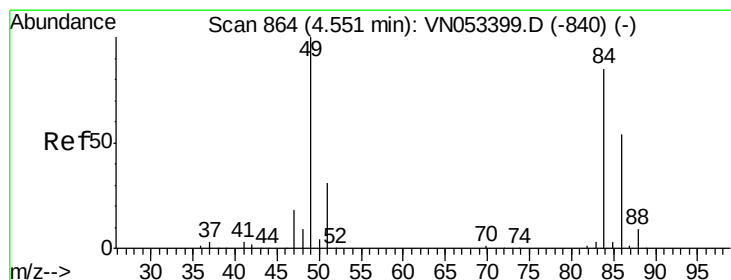
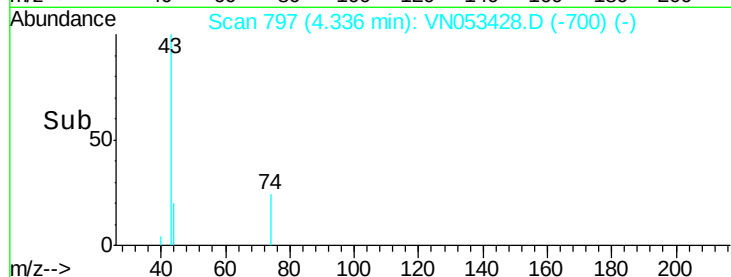
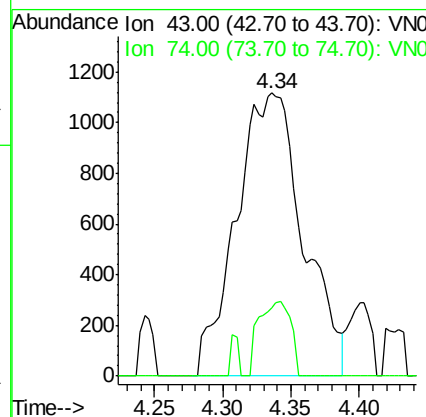
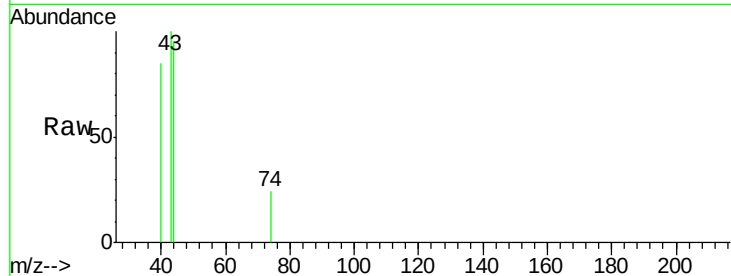




#18
Methvl Acetate
Concen: 0.513 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053428.D
Acq: 16 Jan 2019 16:35

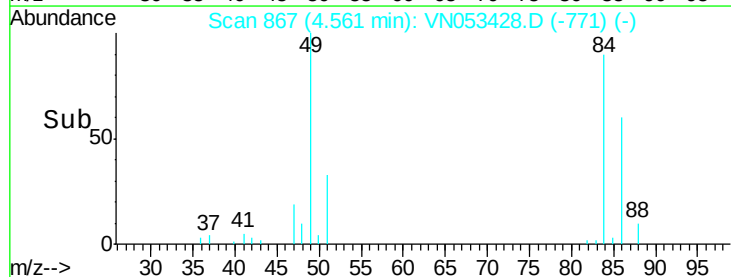
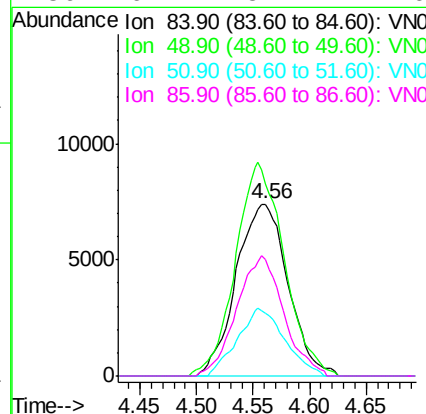
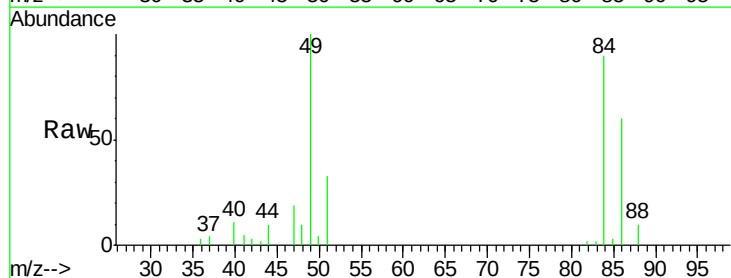
Instrument :
MSVOA_N
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PB116405ZHE#11

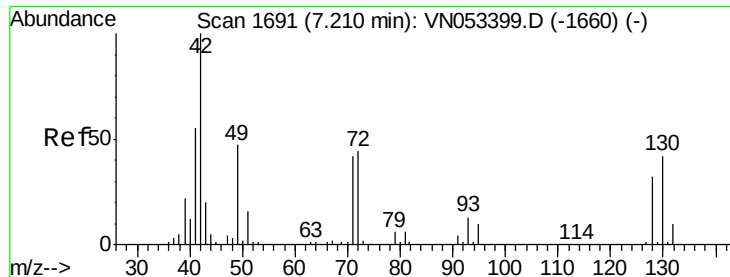
Tot Ion: 43 Resp: 3813
Ion Ratio Lower Upper
43 100
74 12.4 19.4 29.2#



#20
Methylene Chloride
Concen: 2.335 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053428.D
Acq: 16 Jan 2019 16:35

Tgt Ion: 84 Resp: 23528
Ion Ratio Lower Upper
84 100
49 111.6 94.3 141.5
51 36.4 29.4 44.2
86 67.4 51.4 77.0





#29

Tetrahydrofuran

Concen: 0.803 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#11

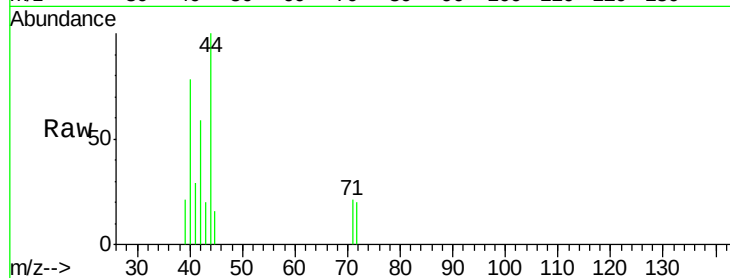
Tot Ion: 42 Resp: 1778

Ion Ratio Lower Upper

42 100

72 20.4 35.2 52.8#

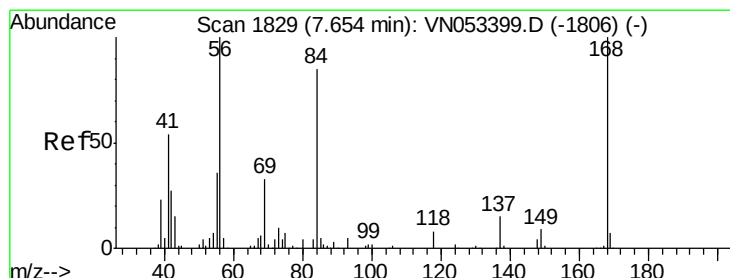
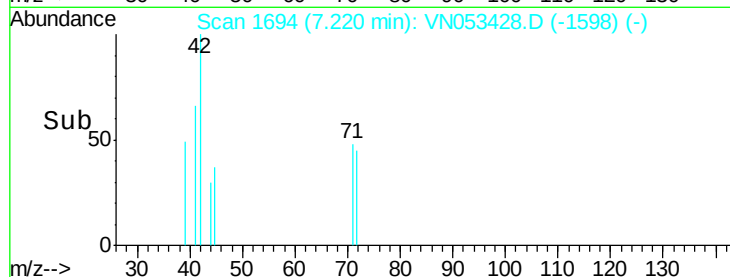
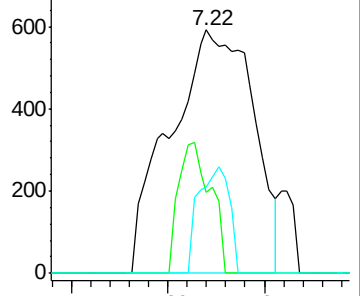
71 16.1 33.0 49.4#



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: 0.704 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

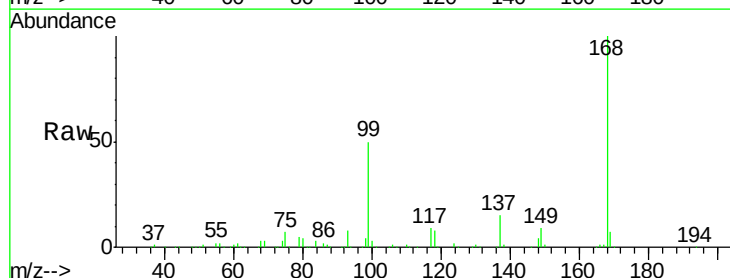
Tgt Ion: 56 Resp: 15283

Ion Ratio Lower Upper

56 100

69 186.0 26.4 39.6#

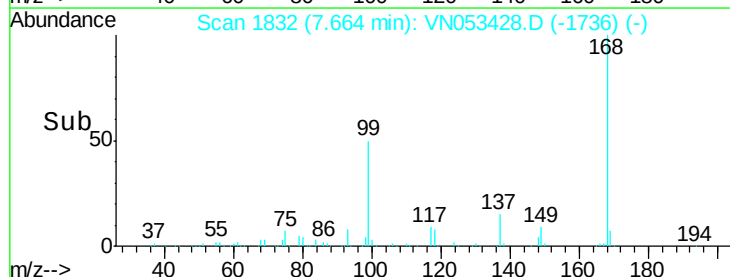
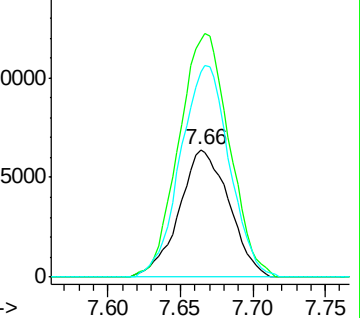
84 160.7 67.9 101.9#

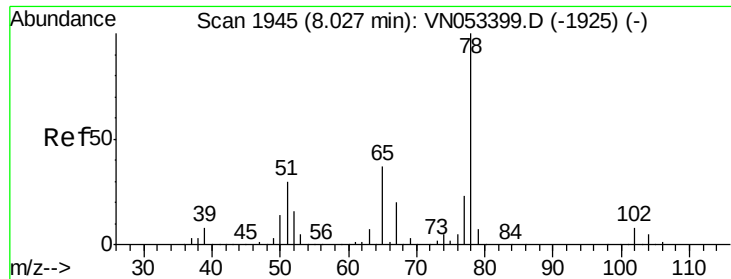


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

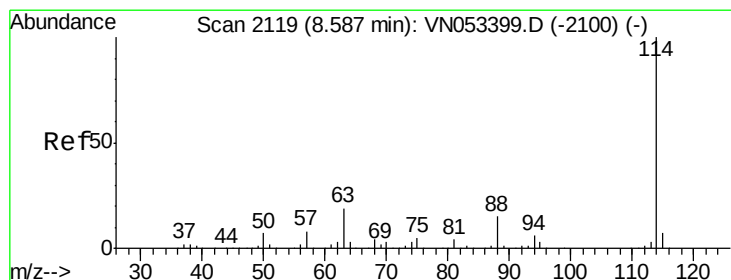
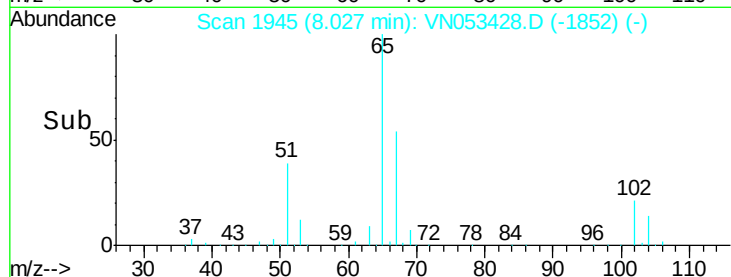
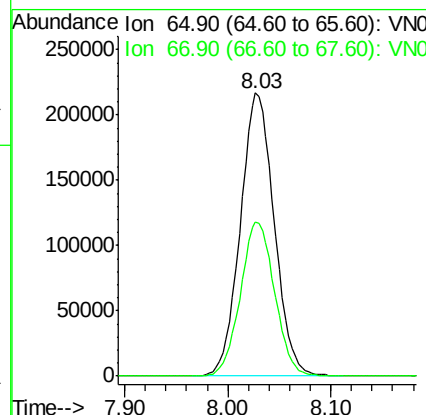
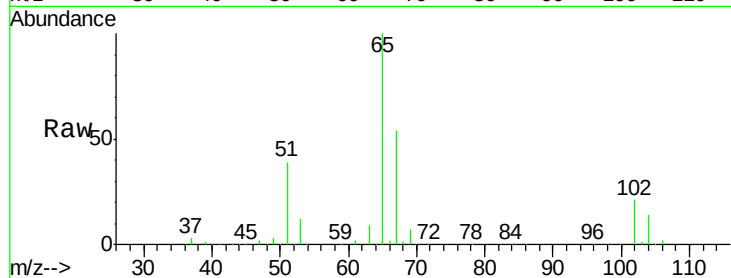




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053428.D
 Acq: 16 Jan 2019 16:35

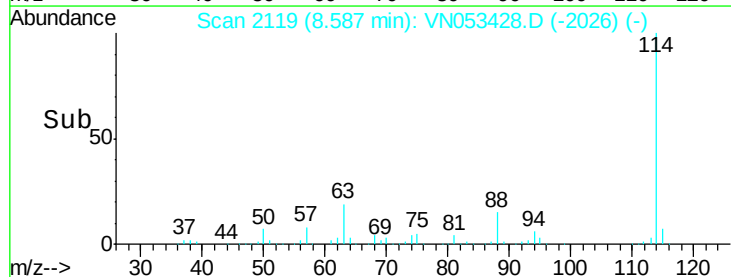
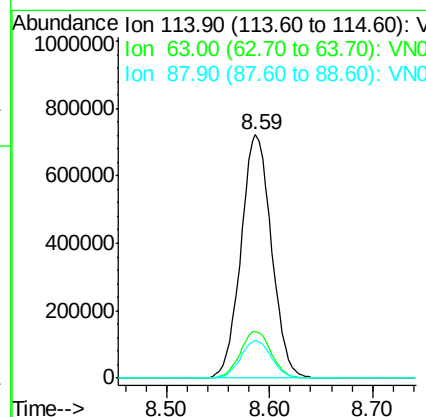
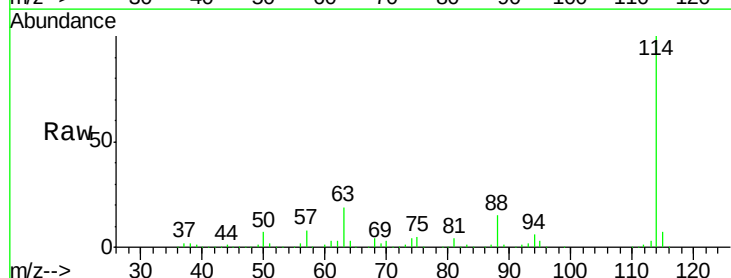
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 PB116405ZHE#11

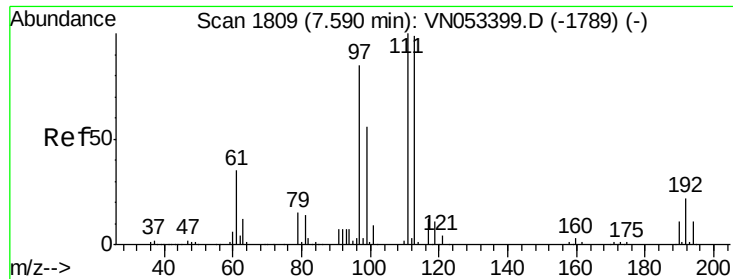
Tot Ion: 65 Resp: 495347
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053428.D
 Acq: 16 Jan 2019 16:35

Tgt Ion: 114 Resp: 1486027
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.6
 88 15.3 0.0 30.4

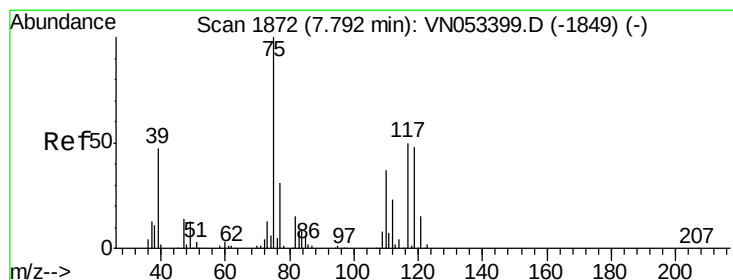
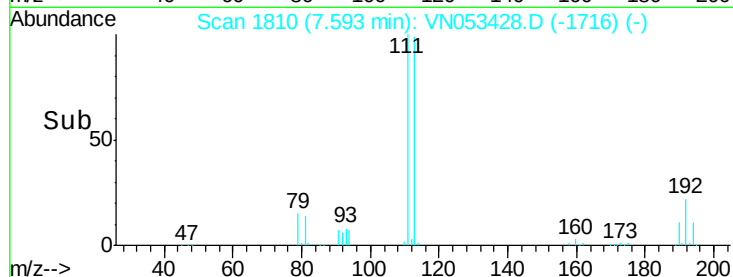
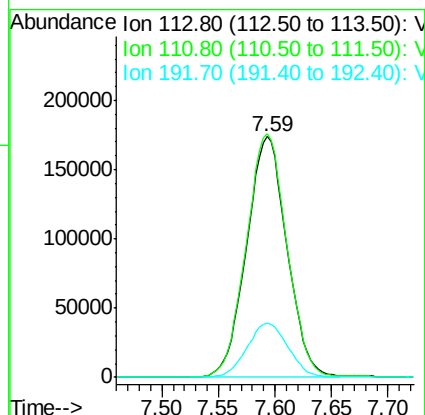
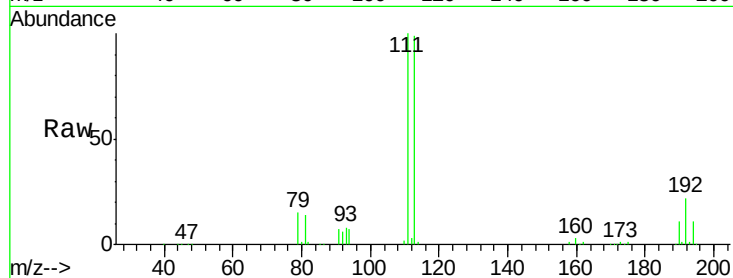




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053428.D
 Acq: 16 Jan 2019 16:35

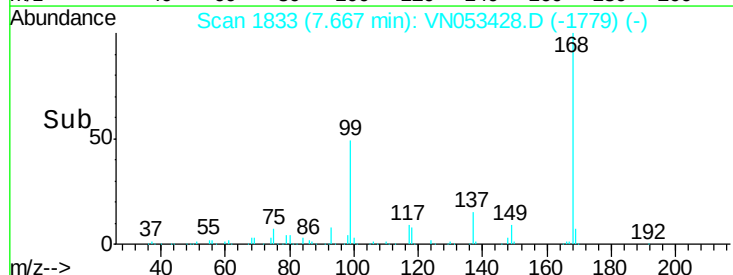
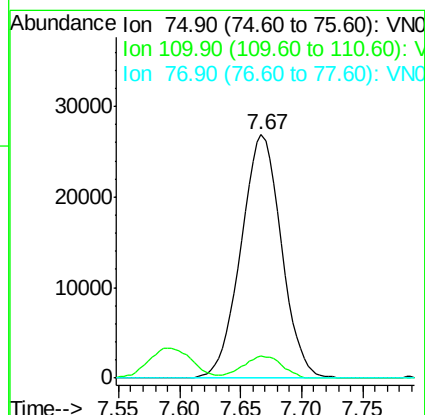
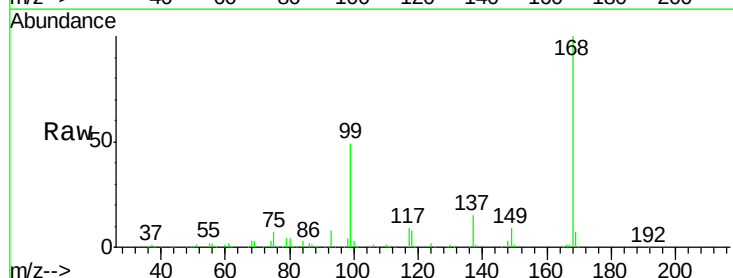
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116405ZHE#11

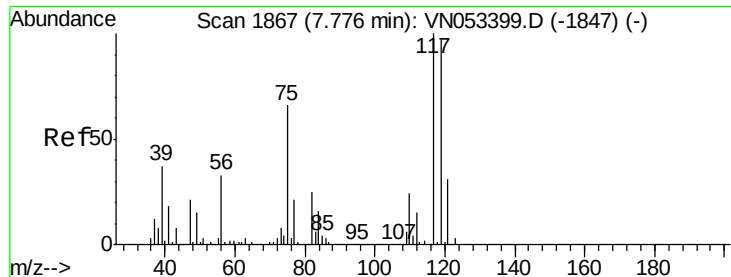
Tot Ion:113 Resp: 431838
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.1 121.7
 192 22.8 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 4.546 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053428.D
 Acq: 16 Jan 2019 16:35

Tgt Ion: 75 Resp: 61524
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.522 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#11

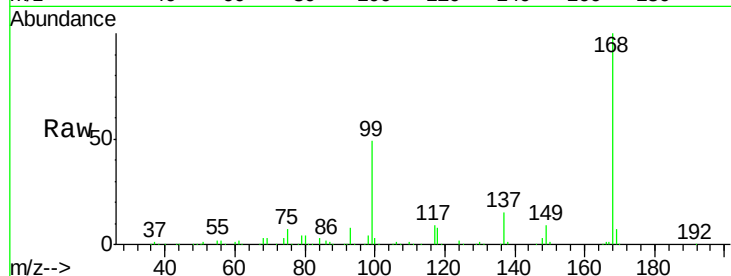
Tot Ion:117 Resp: 83569

Ion Ratio Lower Upper

117 100

119 5.5 77.2 115.8#

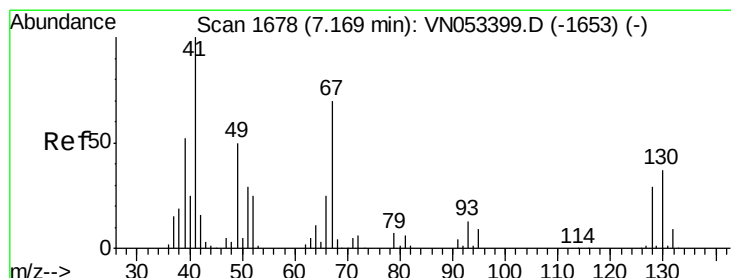
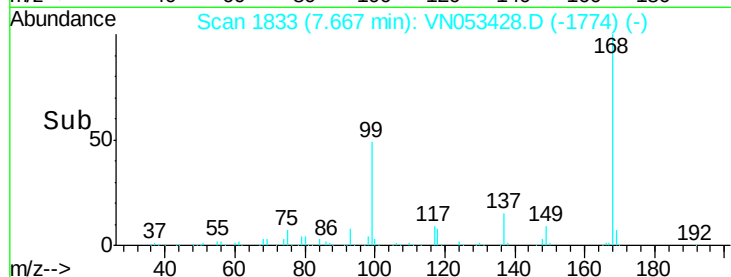
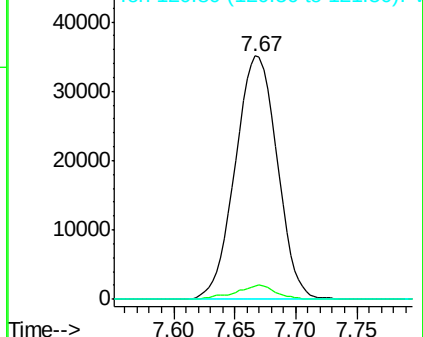
121 0.0 24.6 37.0#



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: 0.801 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.06 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Tgt Ion: 41 Resp: 627

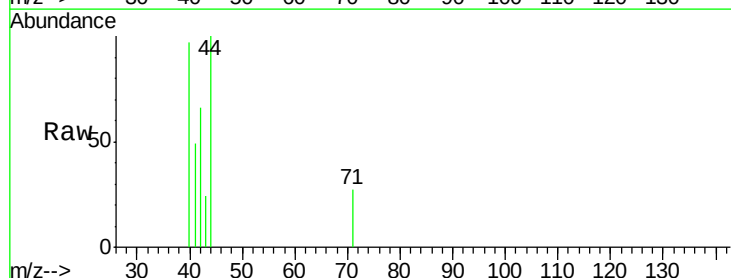
Ion Ratio Lower Upper

41 100

39 28.7 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

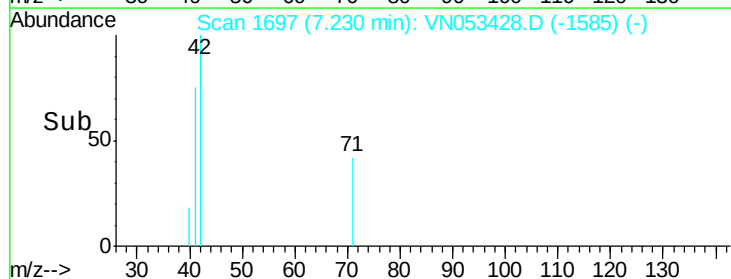
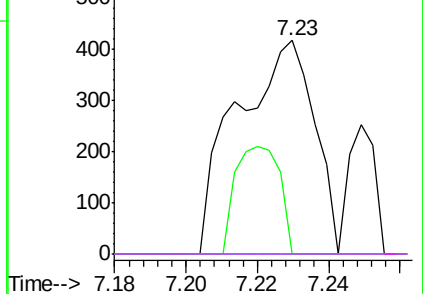


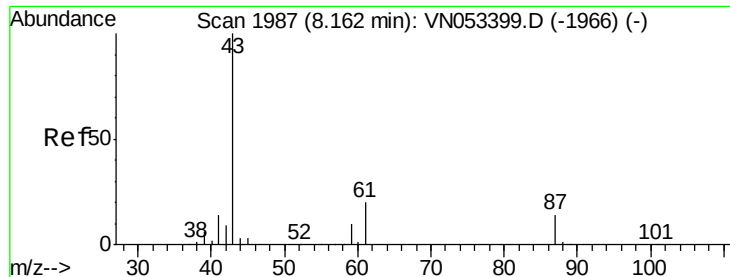
Abundance Ion 41.00 (40.70 to 41.70): VNO

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: 4.563 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#11

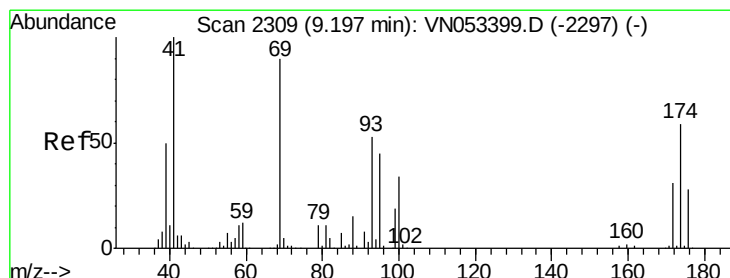
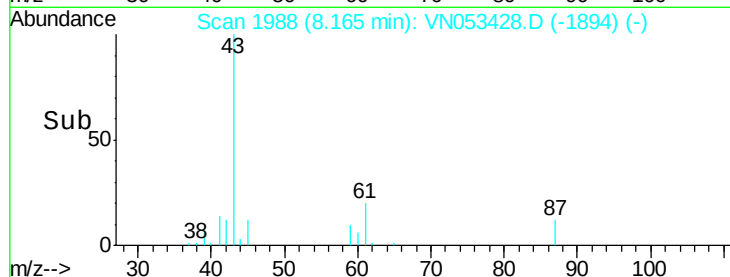
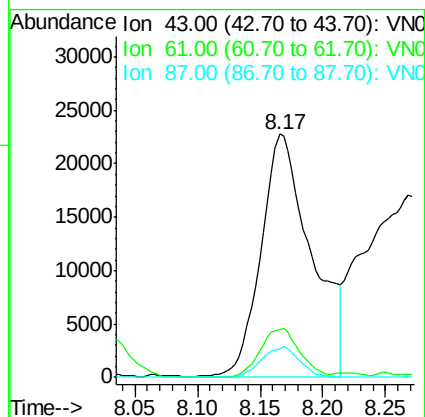
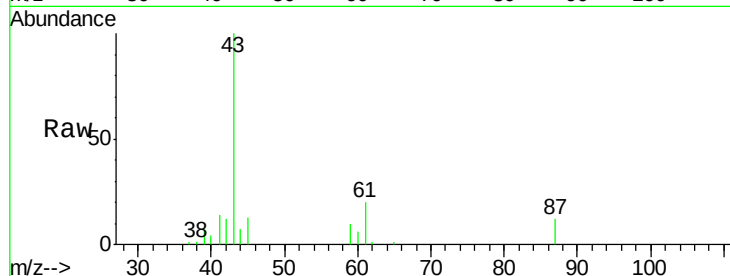
Tot Ion: 43 Resp: 63887

Ion Ratio Lower Upper

43 100

61 15.7 23.9 35.9#

87 9.4 11.0 16.6#



#48

Methyl methacrylate

Concen: 2.979 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

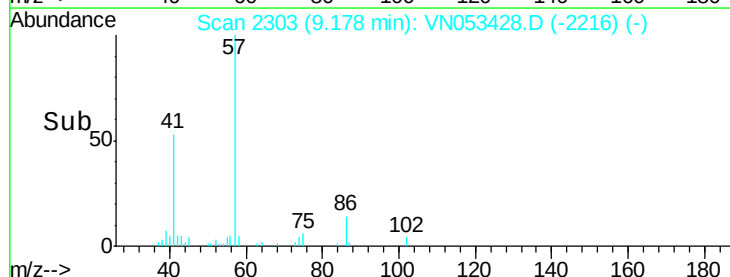
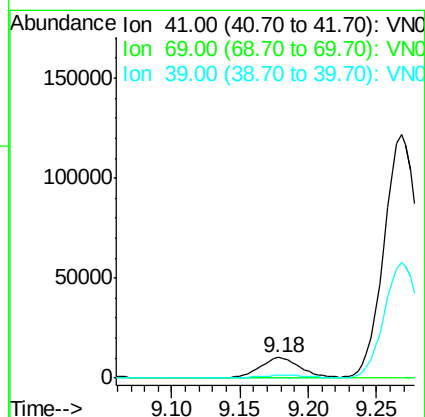
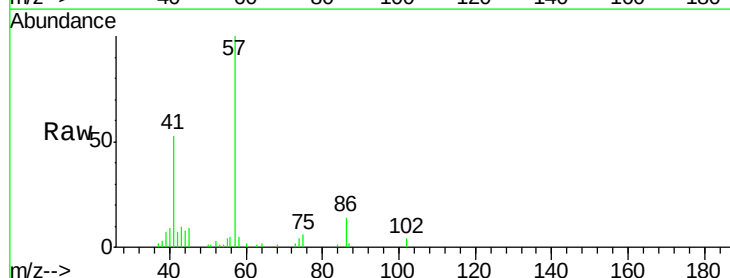
Tgt Ion: 41 Resp: 21535

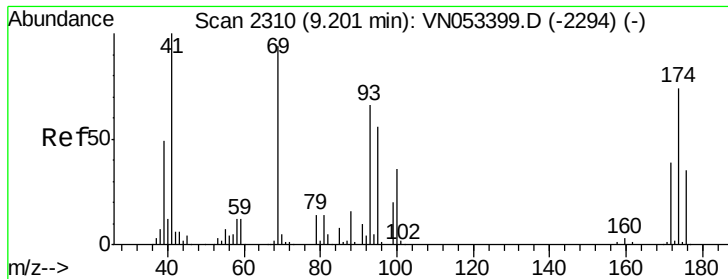
Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

39 17.9 40.0 60.0#





#49

1,4-Dioxane

Concen: 5.014 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#11

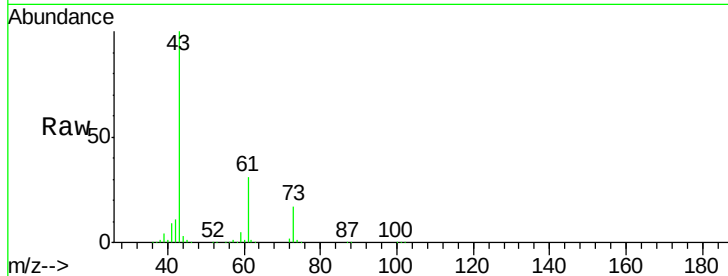
Tot Ion: 88 Resp: 354

Ion Ratio Lower Upper

88 100

43 703112.7 27.8 41.6#

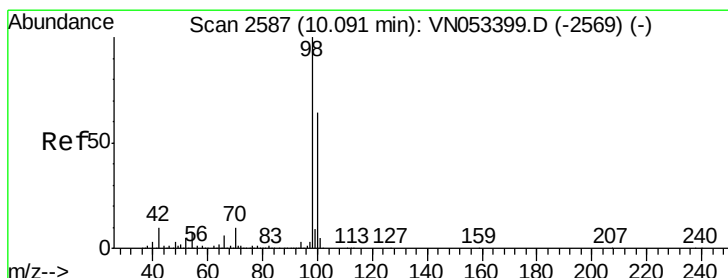
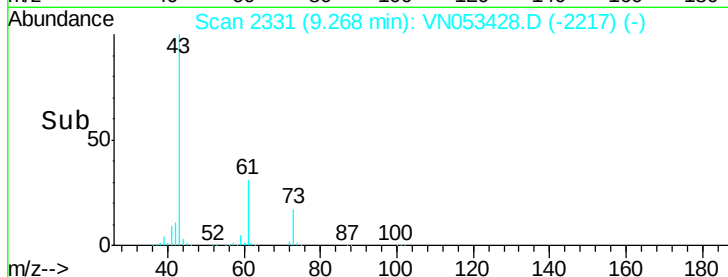
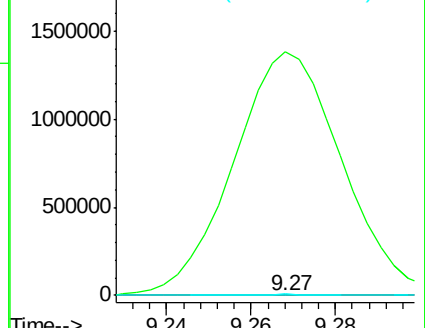
58 3308.8 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 5.014 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053428.D

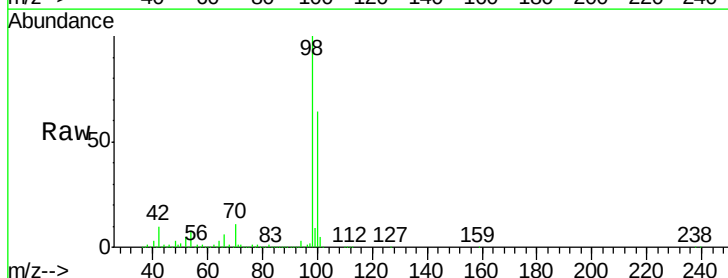
Acq: 16 Jan 2019 16:35

Tgt Ion: 98 Resp: 1873697

Ion Ratio Lower Upper

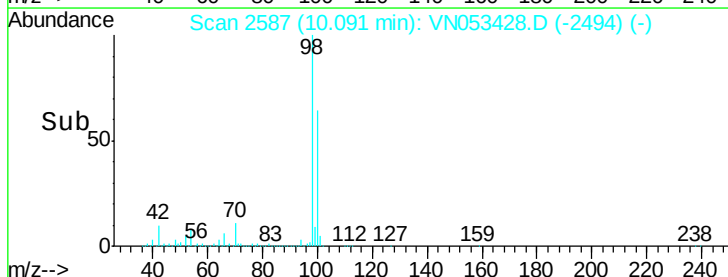
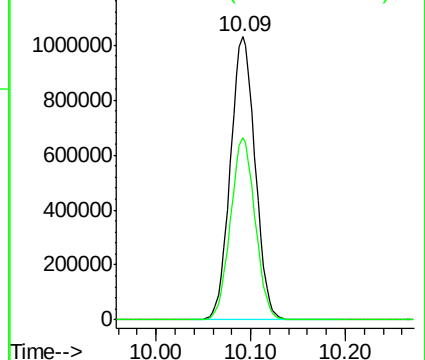
98 100

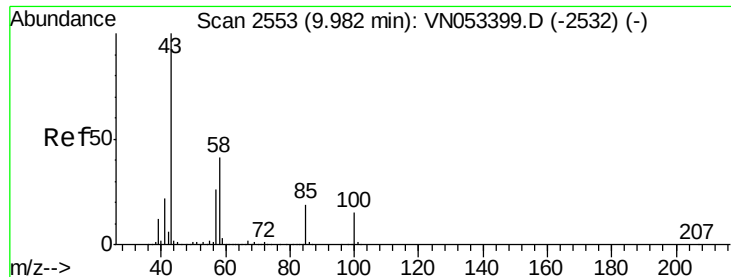
100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.833 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

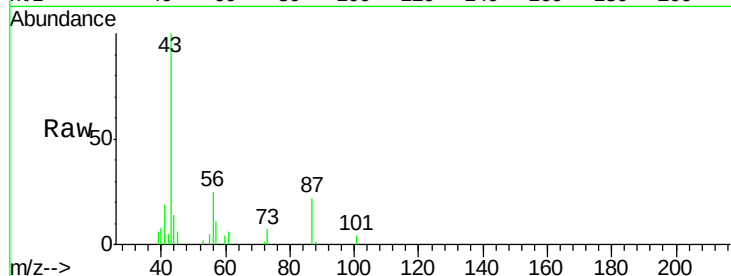
PB116405ZHE#11

Tot Ion: 43 Resp: 21650

Ion Ratio Lower Upper

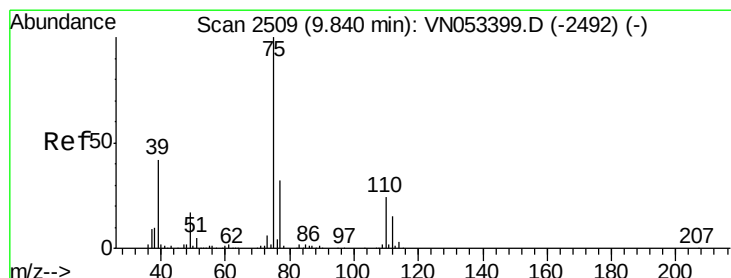
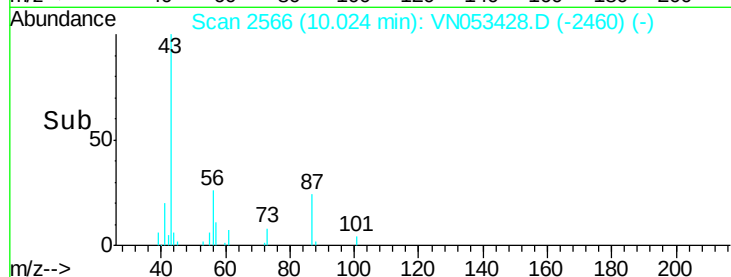
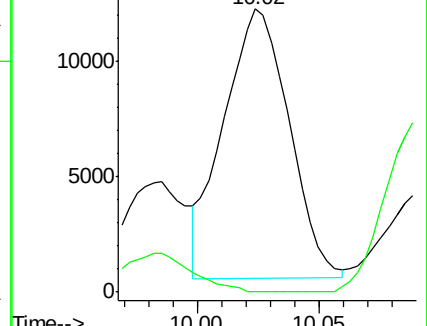
43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 8.929 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

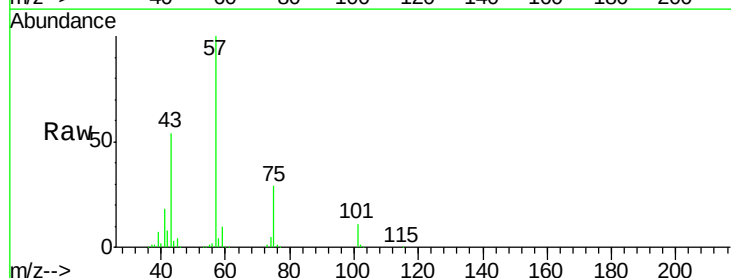
Tgt Ion: 75 Resp: 139637

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

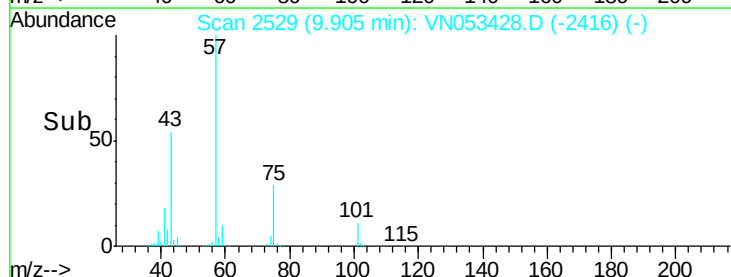
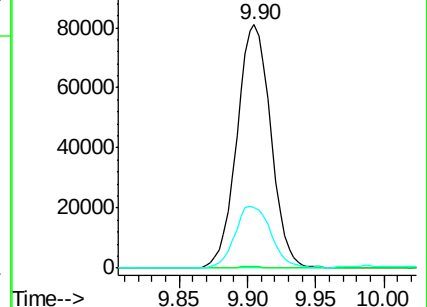
39 24.8 33.4 50.0#

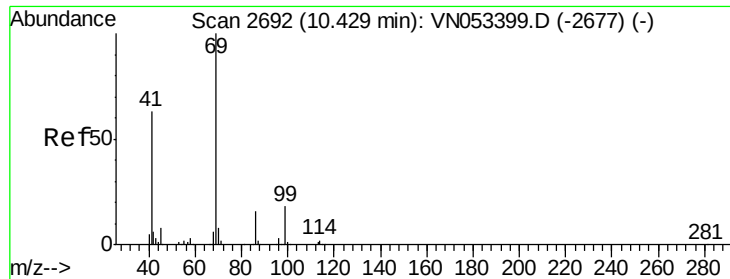


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 2.236 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#11

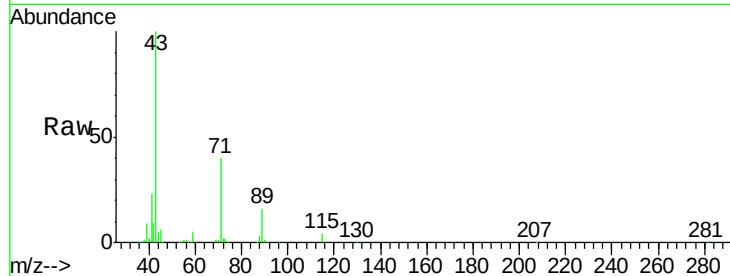
Tot Ion: 69 Resp: 2319

Ion Ratio Lower Upper

69 100

41 4353.0 49.4 74.0#

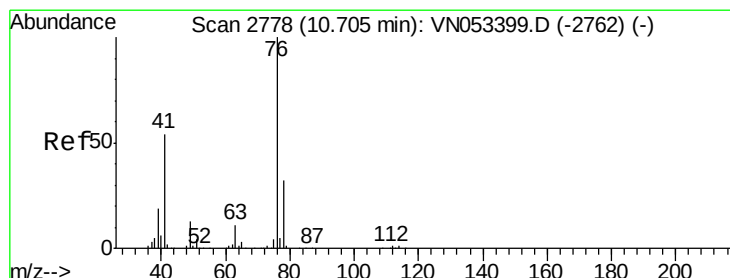
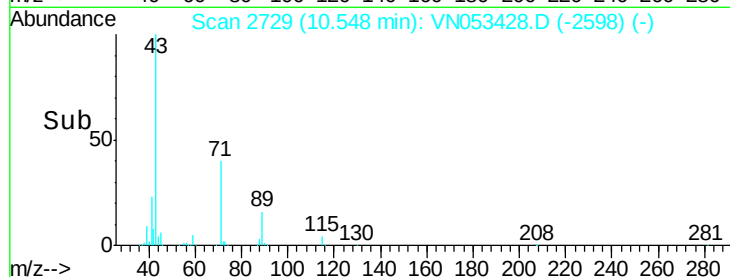
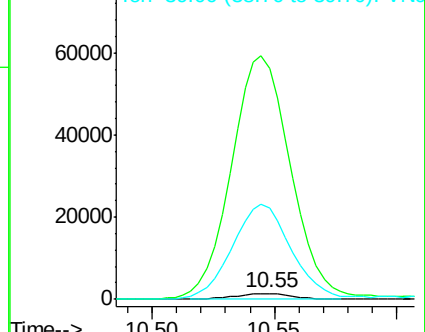
39 1685.8 23.3 34.9#



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



#57

1,3-Dichloropropane

Concen: 1.618 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053428.D

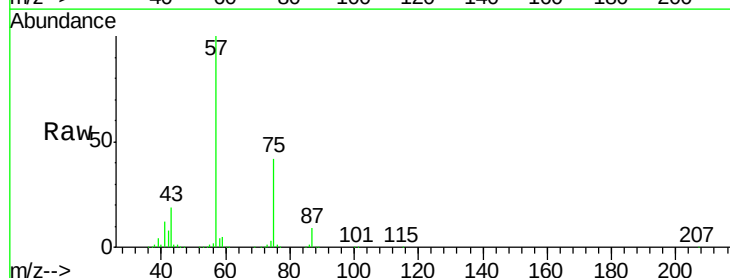
Acq: 16 Jan 2019 16:35

Tgt Ion: 76 Resp: 24638

Ion Ratio Lower Upper

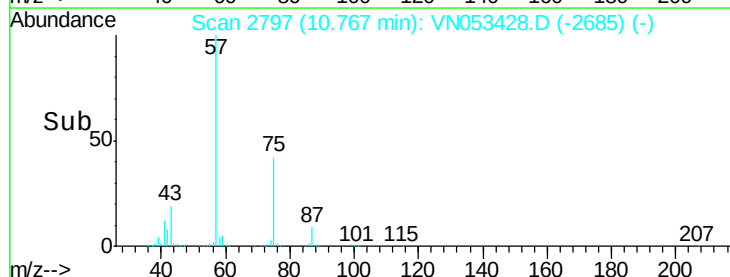
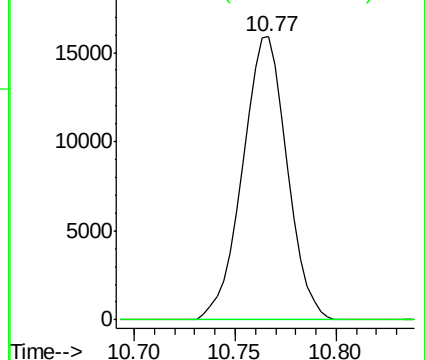
76 100

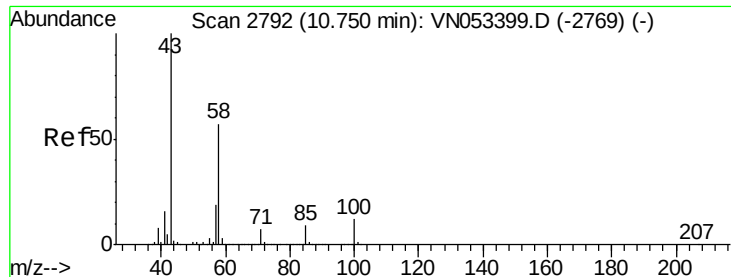
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 61.846 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

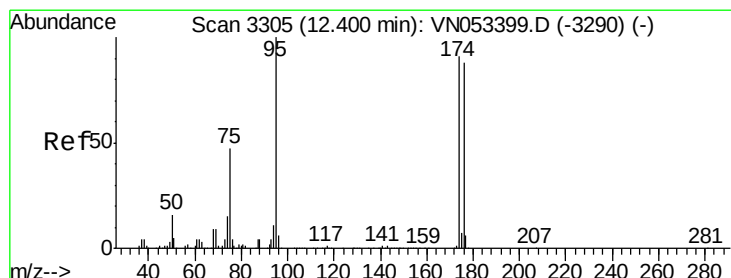
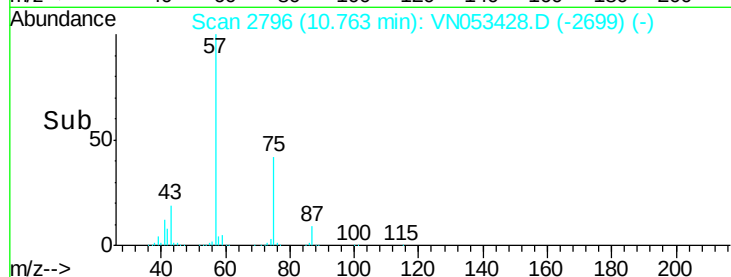
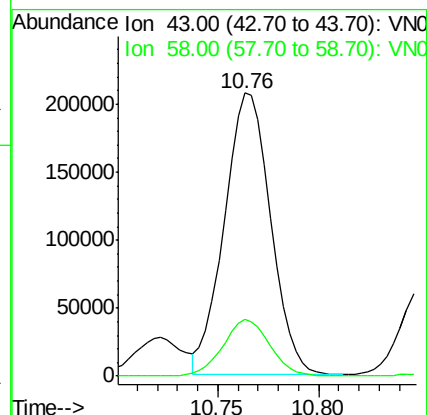
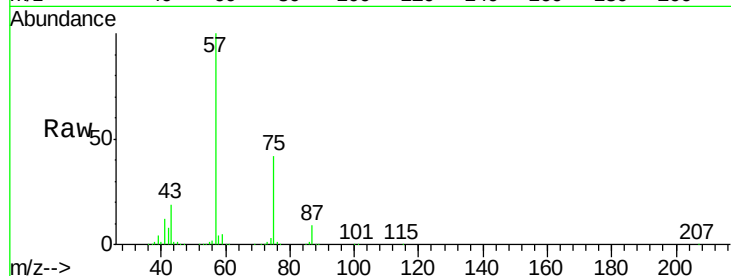
PB116405ZHE#11

Tot Ion: 43 Resp: 331810

Ion Ratio Lower Upper

43 100

58 20.5 28.6 85.8#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

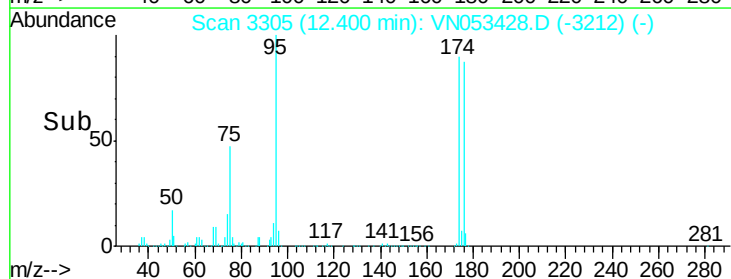
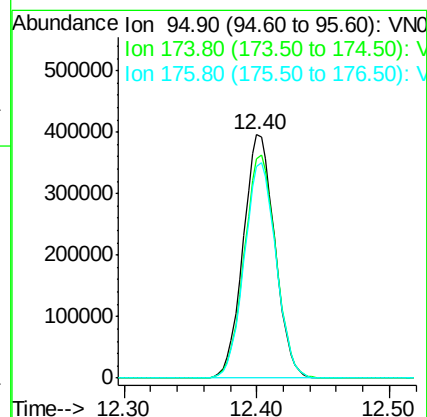
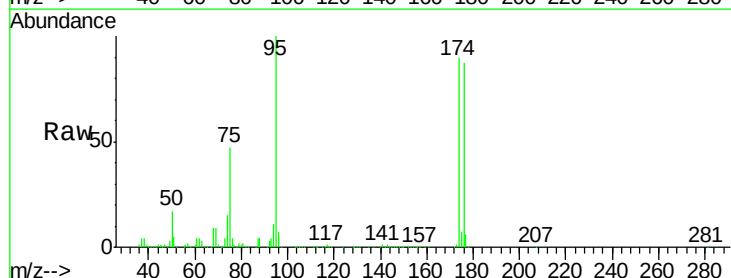
Tgt Ion: 95 Resp: 653376

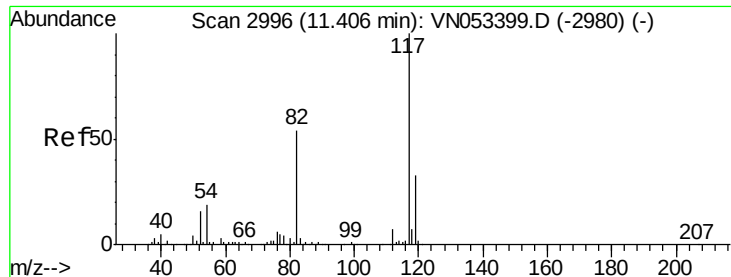
Ion Ratio Lower Upper

95 100

174 92.1 0.0 183.2

176 89.3 0.0 177.4

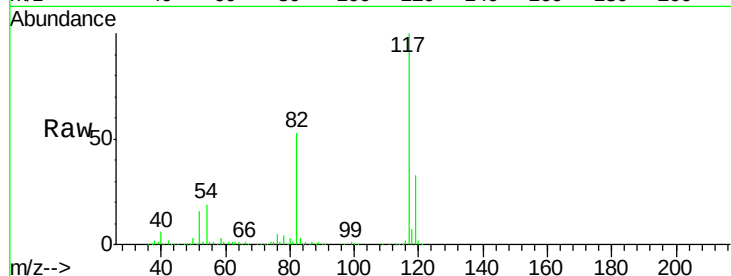




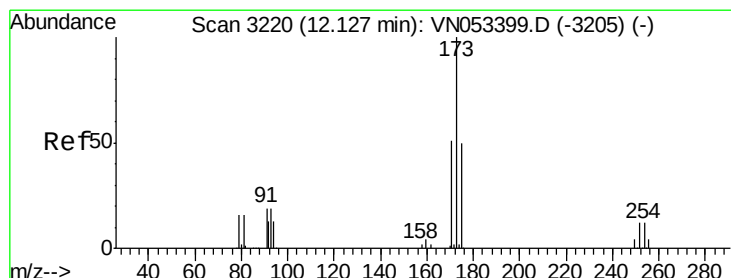
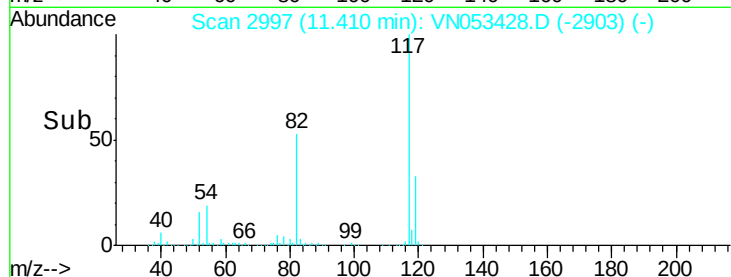
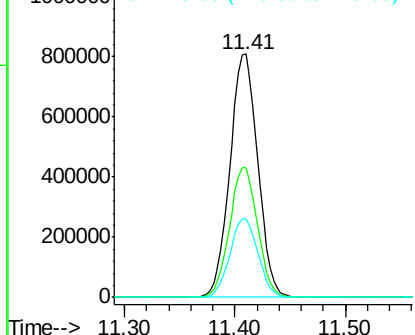
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053428.D
Acq: 16 Jan 2019 16:35

Instrument :
MSVOA_N
ClientSampleId :
PB116405ZHE#11

Tot Ion:117 Resp: 1420993
Ion Ratio Lower Upper
117 100
82 53.0 42.9 64.3
119 32.5 26.0 39.0

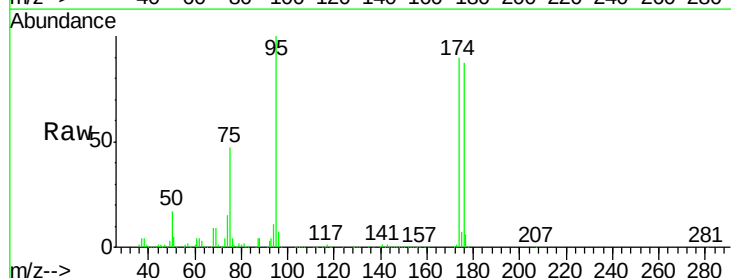


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

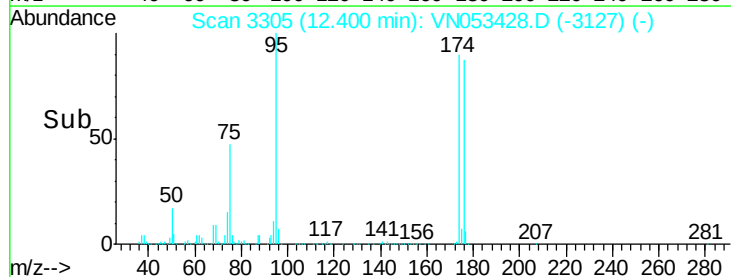
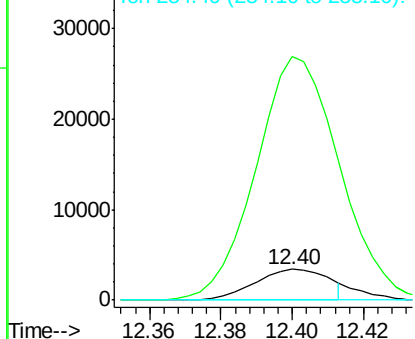


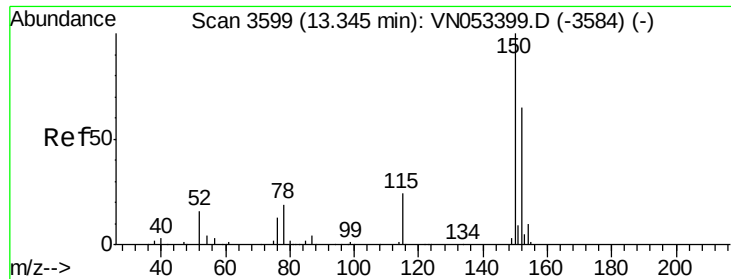
#71
Bromoform
Concen: 0.676 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053428.D
Acq: 16 Jan 2019 16:35

Tgt Ion:173 Resp: 4868
Ion Ratio Lower Upper
173 100
175 784.0 24.6 74.0#
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: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#11

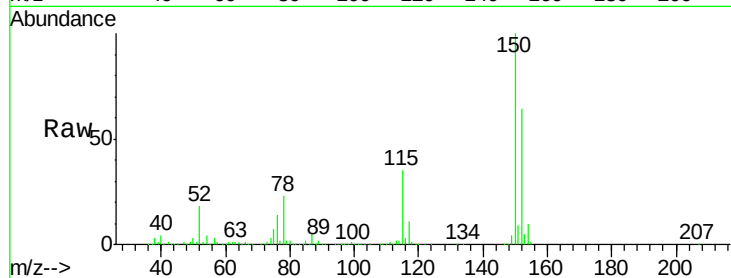
Tot Ion:152 Resp: 641737

Ion Ratio Lower Upper

152 100

115 55.3 27.8 83.4

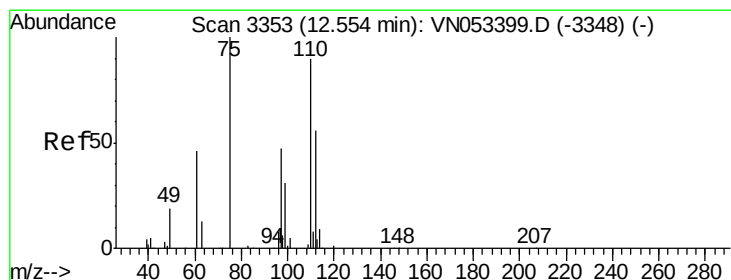
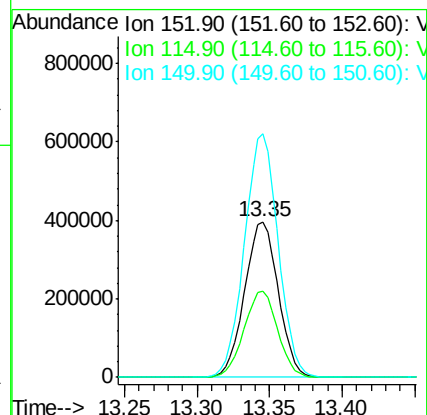
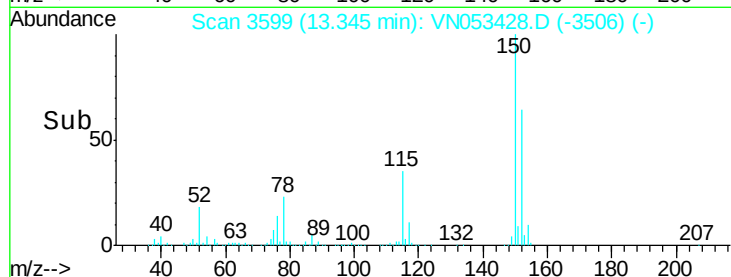
150 156.4 0.0 349.0



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: 36.286 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053428.D

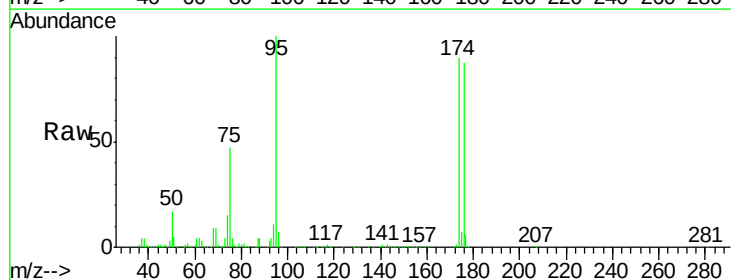
Acq: 16 Jan 2019 16:35

Tgt Ion: 75 Resp: 306862

Ion Ratio Lower Upper

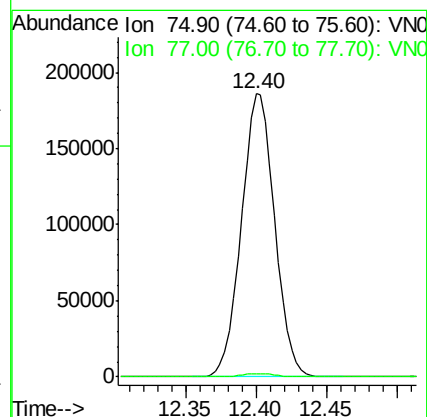
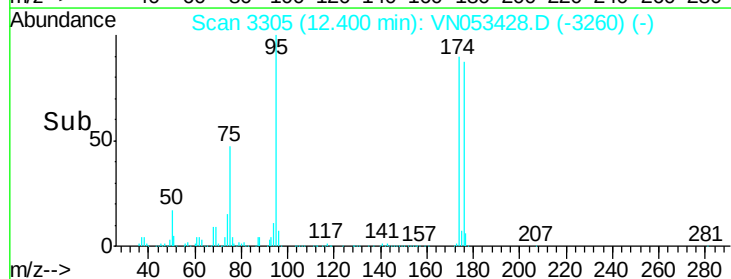
75 100

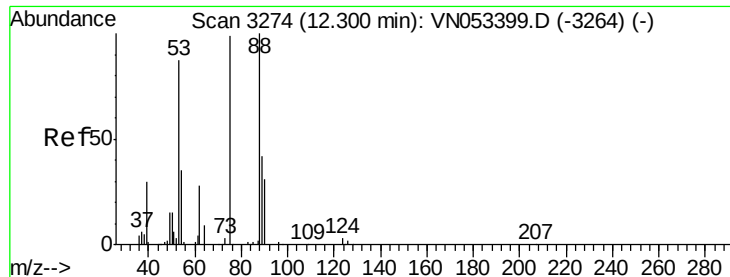
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 89.710 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#11

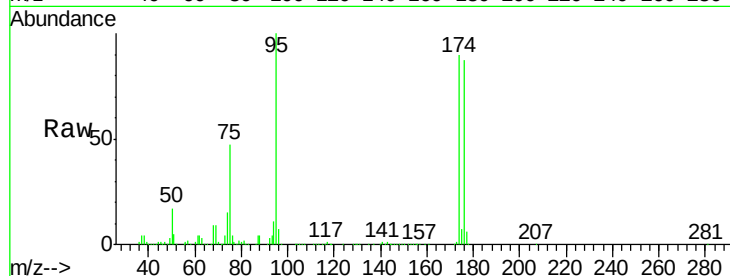
Tot Ion: 75 Resp: 306862

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

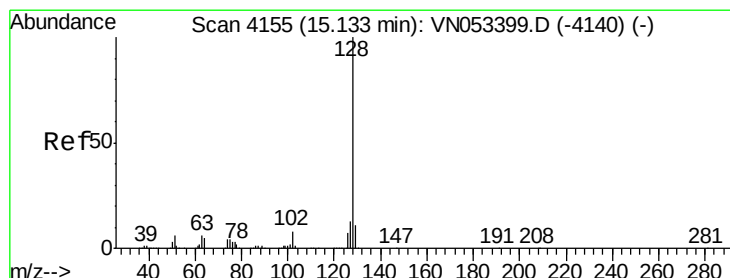
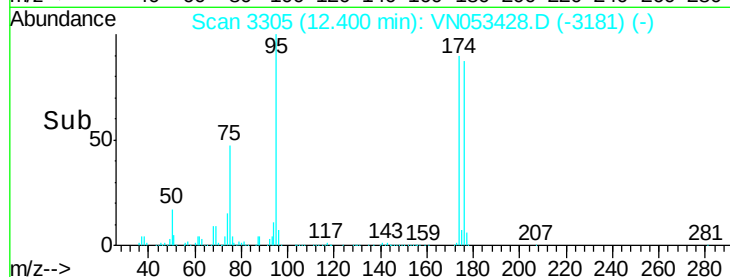
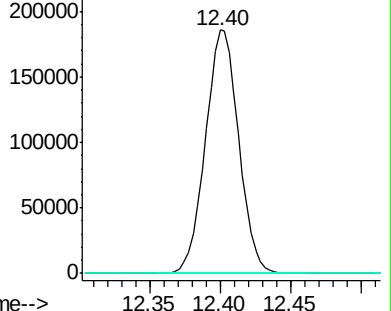
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN053399.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053399.D (-3264) (-)



#95

Naphthalene

Concen: 3.954 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN053428.D

Acq: 16 Jan 2019 16:35

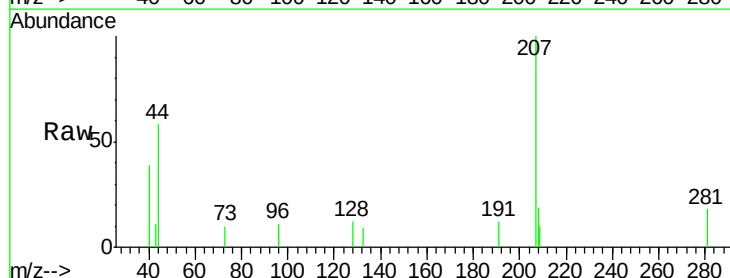
Tgt Ion: 128 Resp: 263

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053399.D (-4140) (-)

Ion 127.00 (126.70 to 127.70): VN053399.D (-4140) (-)

Ion 129.00 (128.70 to 129.70): VN053399.D (-4140) (-)

