

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020619\
 Data File : VN053628.D
 Acq On : 6 Feb 2019 12:16
 Operator : JC/SP
 Sample : PB116860ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#01

Quant Time: Feb 07 03:40:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	801975	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1307699	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1189266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	509233	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	423441	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
35) Dibromofluoromethane	7.59	113	413564	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
50) Toluene-d8	10.09	98	1567049	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.40	95	528500	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	

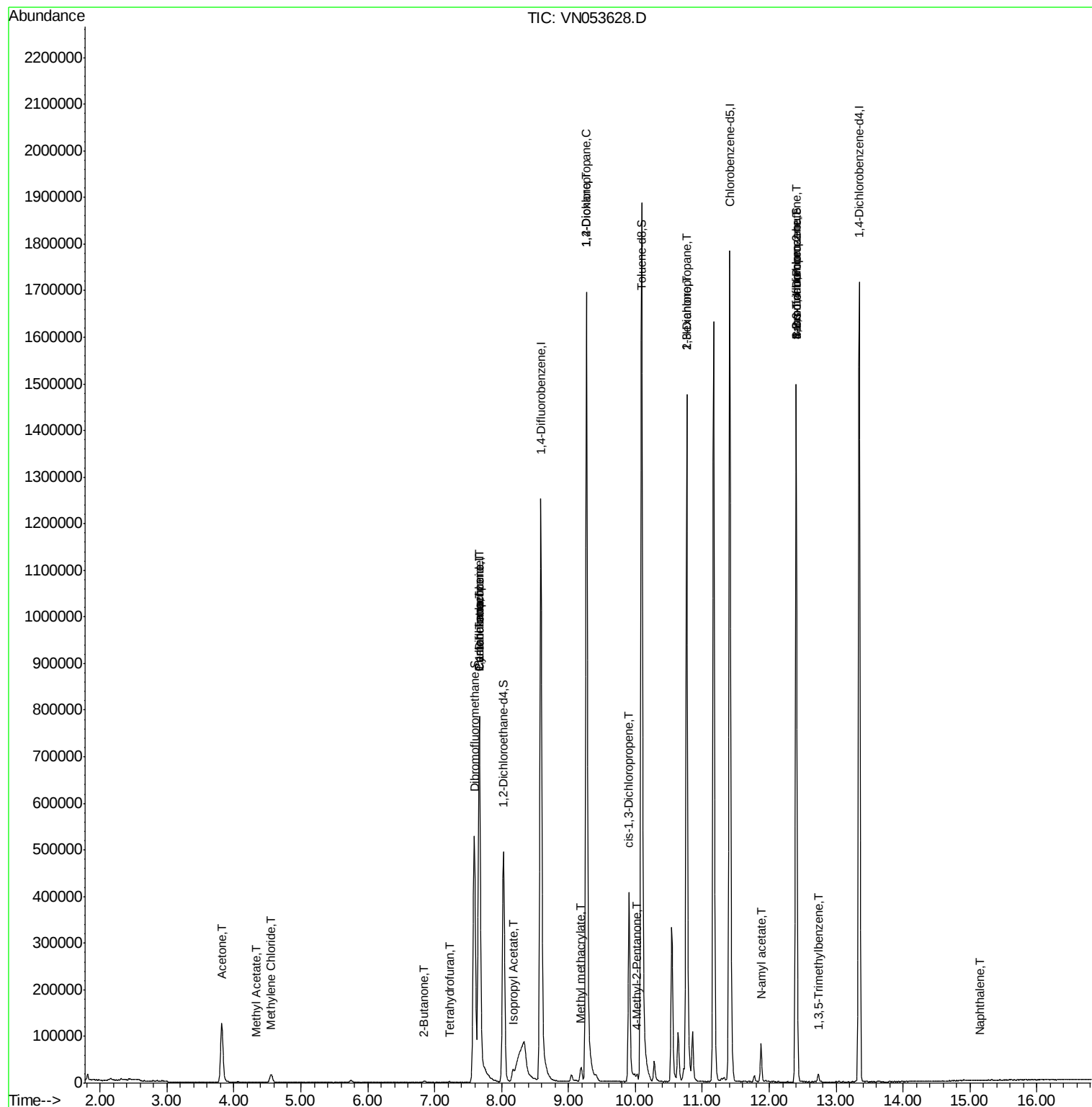
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	219953	106.584	ug/l	99
18) Methyl Acetate	4.32	43	1477	0.242	ug/l #	51
20) Methylene Chloride	4.56	84	13475	1.556	ug/l	97
25) 2-Butanone	6.85	43	5039	1.712	ug/l	95
29) Tetrahydrofuran	7.22	42	1516	0.802	ug/l #	50
31) Cyclohexane	7.67	56	11199	0.656	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	49017	4.158	ug/l #	48
38) Carbon Tetrachloride	7.67	117	62108	5.230	ug/l #	16
43) Isopropyl Acetate	8.17	43	36309	2.856	ug/l #	86
45) 1,2-Dichloropropane	9.27	63	2522	0.271	ug/l #	43
48) Methyl methacrylate	9.18	41	12111	1.995	ug/l #	12
49) 1,4-Dioxane	9.27	88	142	40.650	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	9864	1.579	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	88183	6.377	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	16802	1.265	ug/l #	43
59) 2-Hexanone	10.77	43	221573	52.239	ug/l #	51
71) Bromoform	12.40	173	2308	0.382	ug/l #	1
74) N-amyl acetate	11.88	43	24806	2.882	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	242319	37.047	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8402	0.283	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	242319	104.174	ug/l #	15
95) Naphthalene	15.14	128	1591	1.805	ug/l #	69

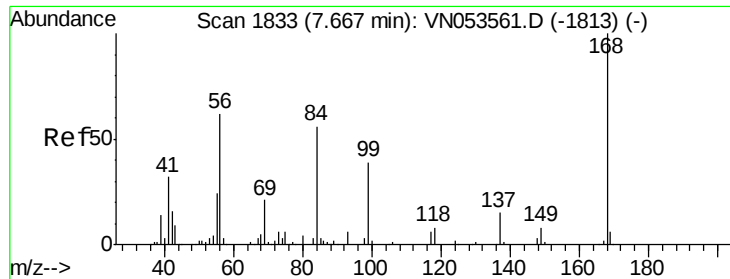
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
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: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

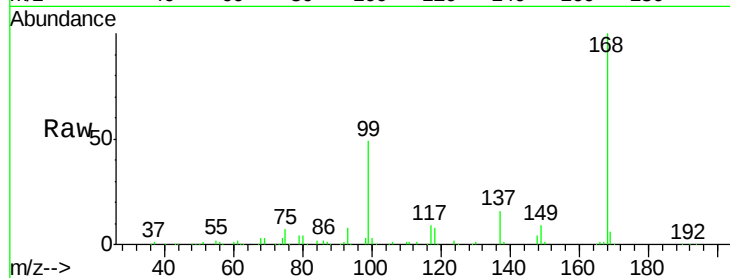
PB116860ZHE#01

Tot Ion:168 Resp: 801975

Ion Ratio Lower Upper

168 100

99 48.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

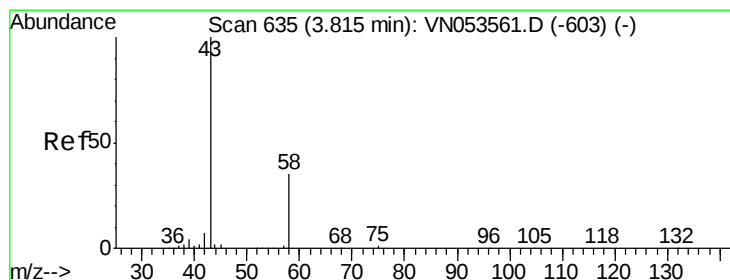
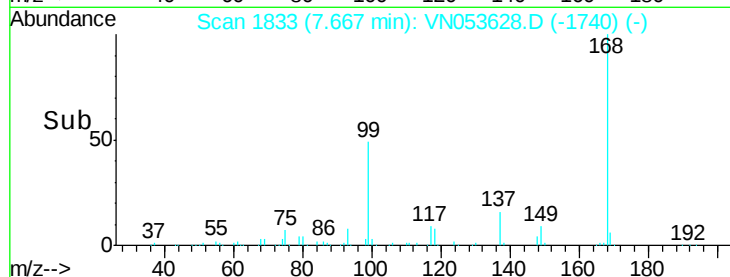
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 106.584 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053628.D

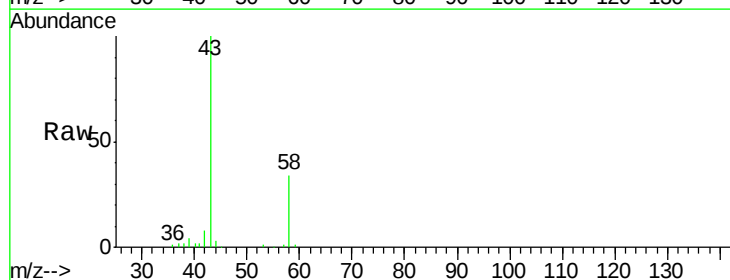
Acq: 6 Feb 2019 12:16

Tgt Ion: 43 Resp: 219953

Ion Ratio Lower Upper

43 100

58 34.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

80000

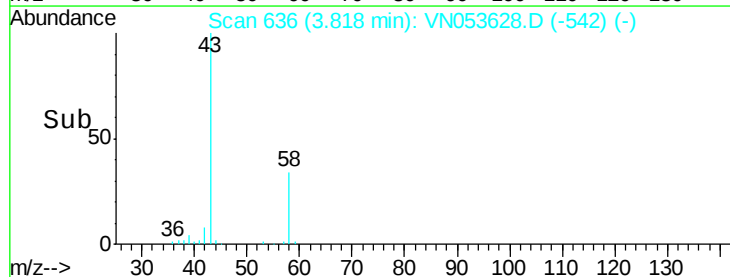
60000

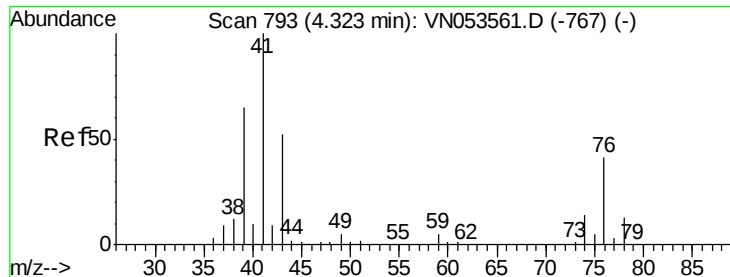
40000

20000

0

Time-->

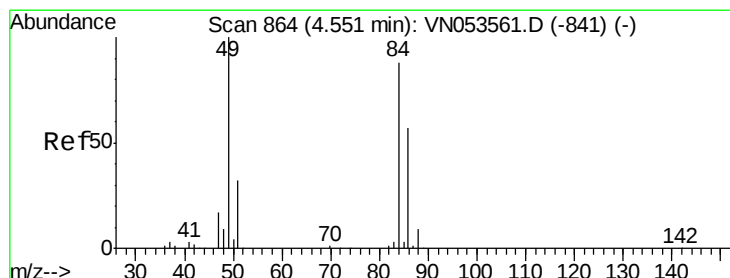
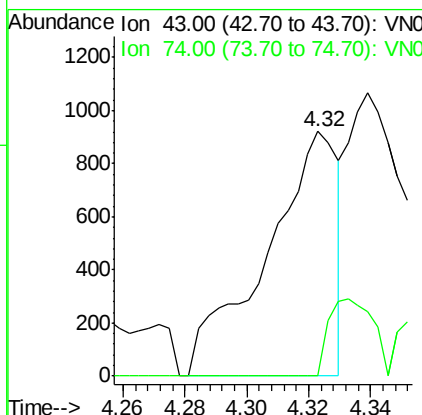
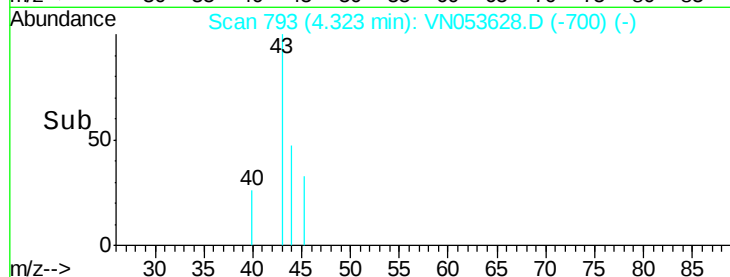
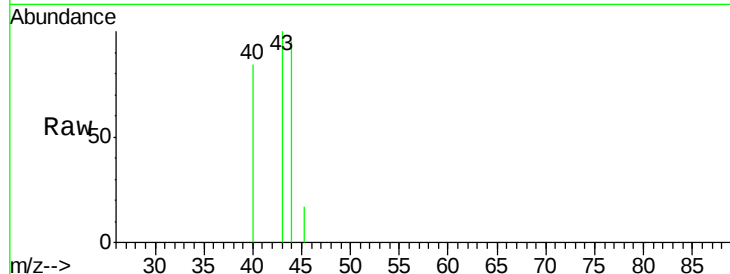




#18
Methyl Acetate
Concen: 0.242 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

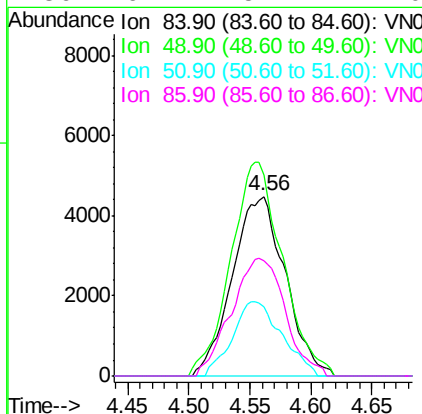
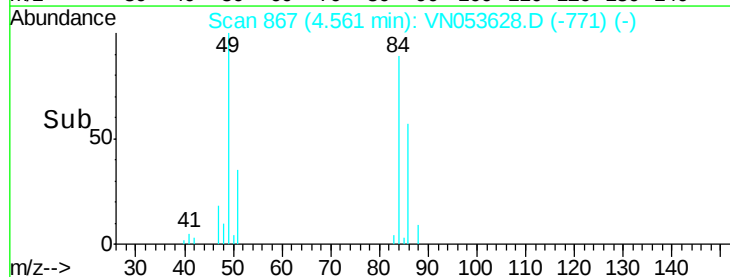
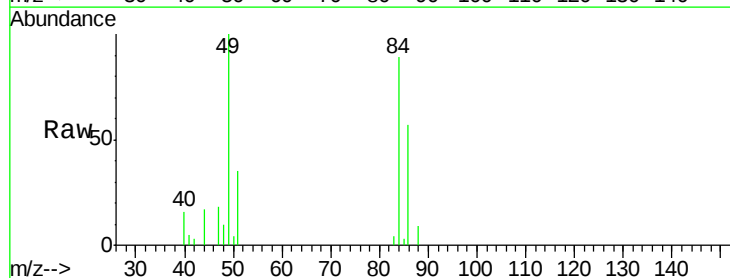
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#01

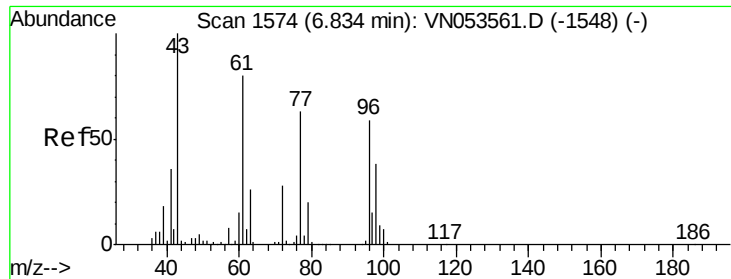
Tot Ion: 43 Resp: 1477
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#



#20
Methylene Chloride
Concen: 1.556 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

Tgt Ion: 84 Resp: 13475
Ion Ratio Lower Upper
84 100
49 112.2 94.3 141.5
51 38.8 29.4 44.2
86 64.2 51.4 77.0

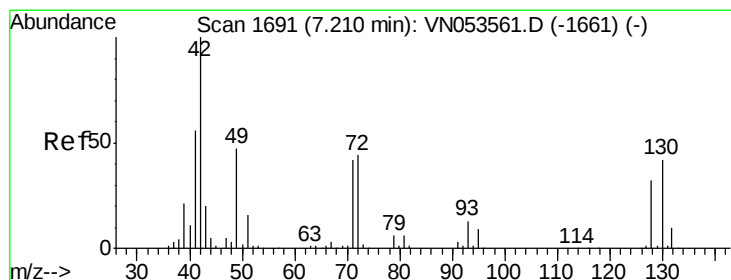
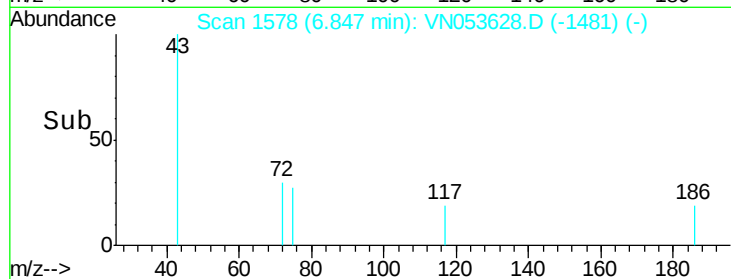
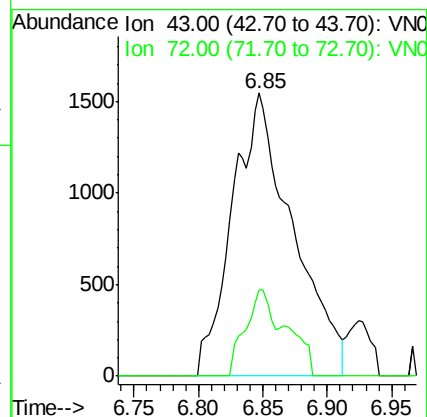
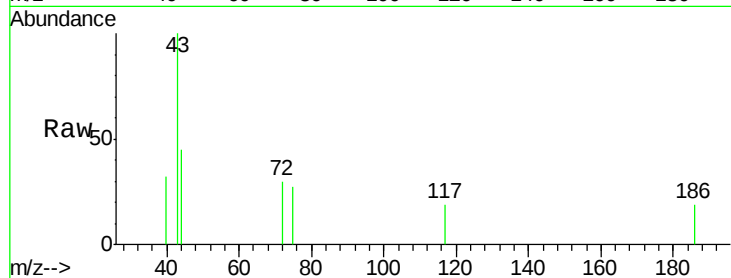




#25
2-Butanone
Concen: 1.712 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

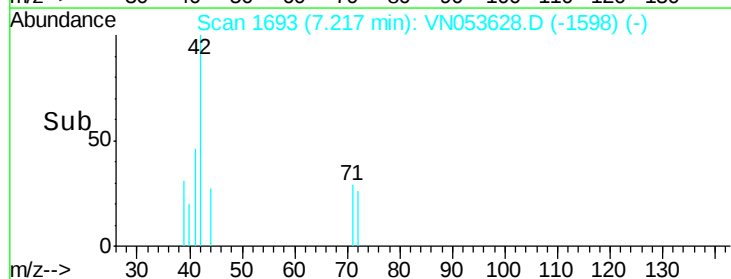
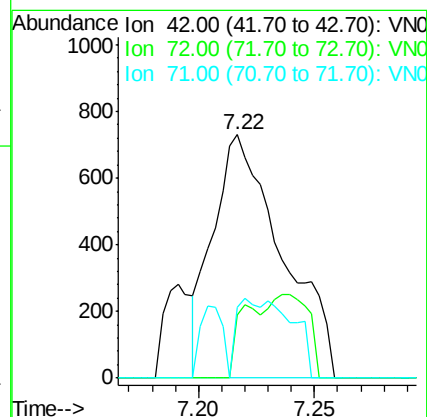
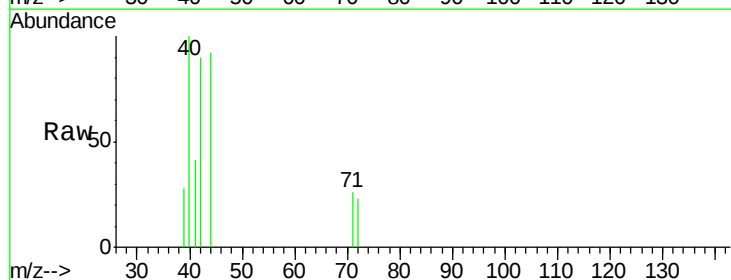
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#01

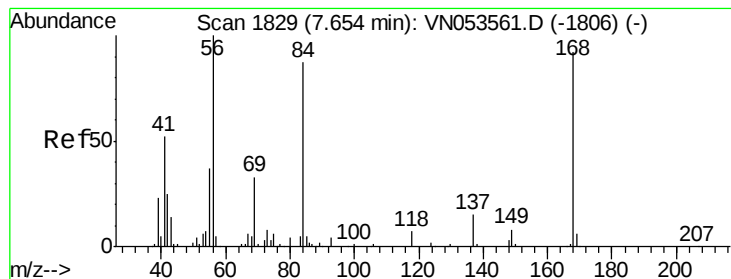
Tot Ion: 43 Resp: 5039
Ion Ratio Lower Upper
43 100
72 30.3 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.802 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

Tgt Ion: 42 Resp: 1516
Ion Ratio Lower Upper
42 100
72 10.3 35.2 52.8#
71 11.2 33.0 49.4#





#31

Cyclohexane

Concen: 0.656 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#01

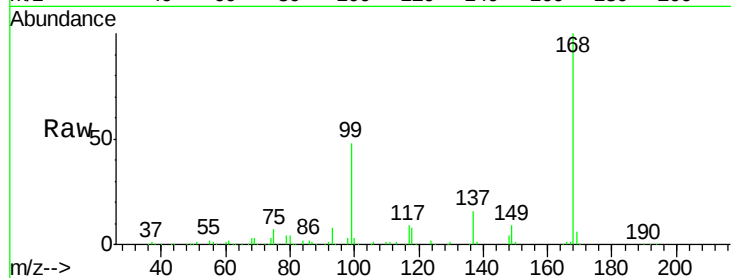
Tot Ion: 56 Resp: 11199

Ion Ratio Lower Upper

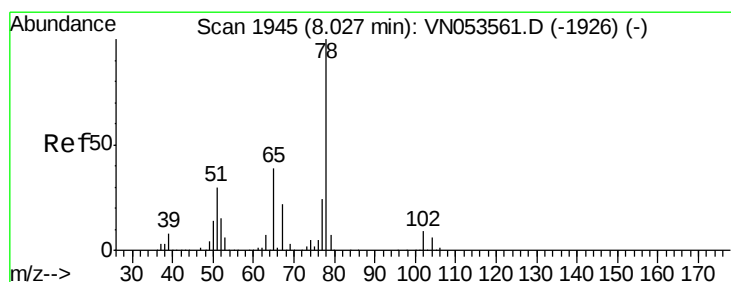
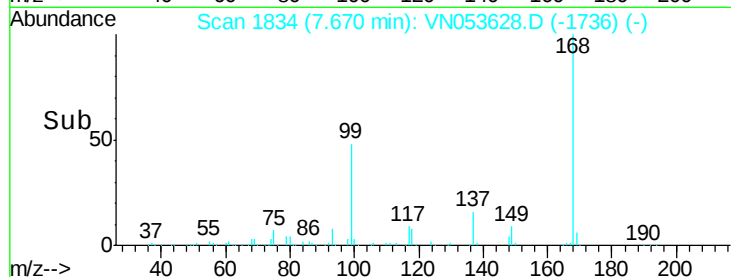
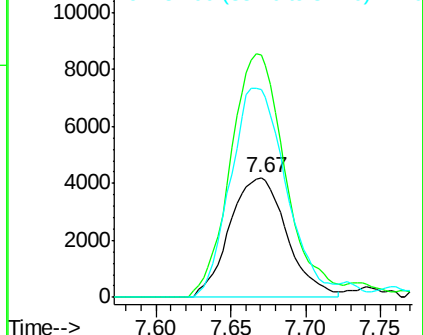
56 100

69 202.7 26.4 39.6#

84 174.0 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053628.D

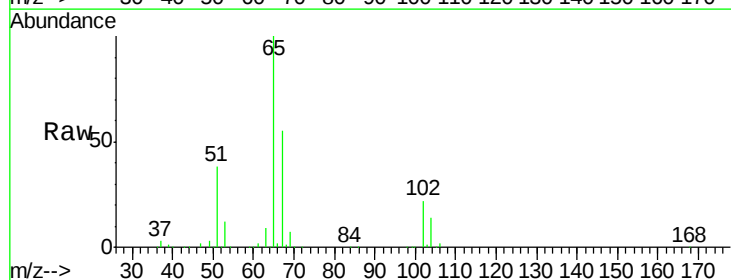
Acq: 6 Feb 2019 12:16

Tgt Ion: 65 Resp: 423441

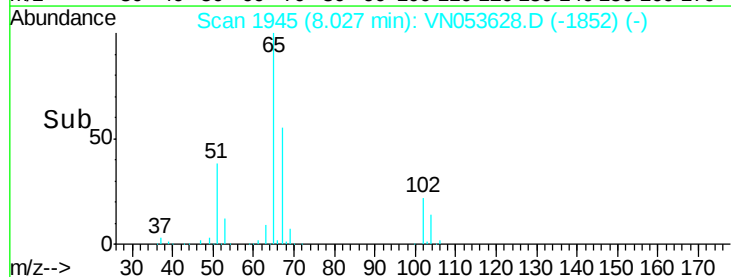
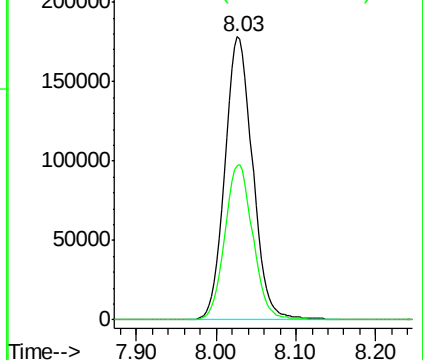
Ion Ratio Lower Upper

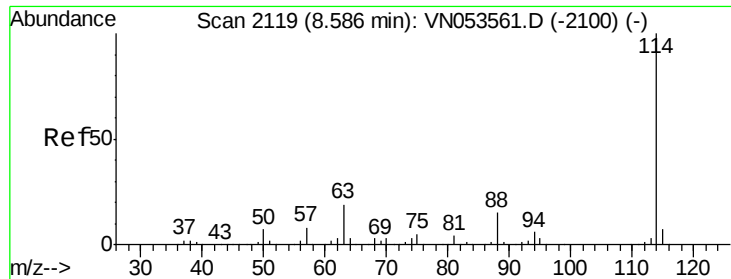
65 100

67 55.6 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

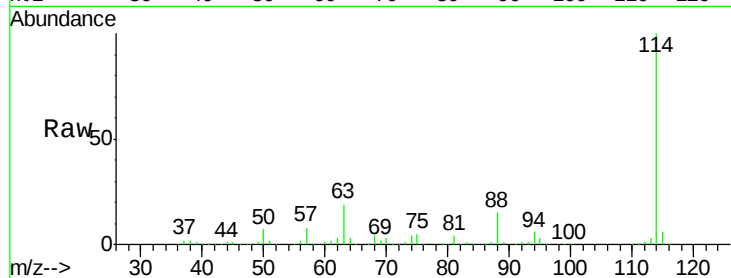




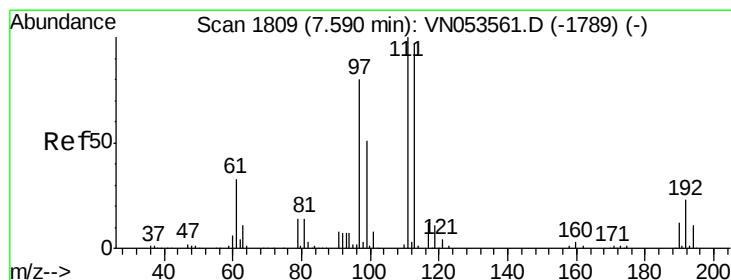
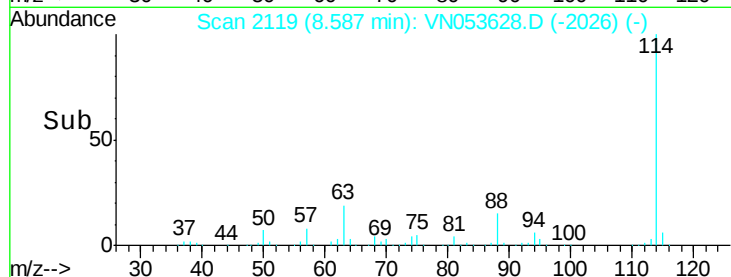
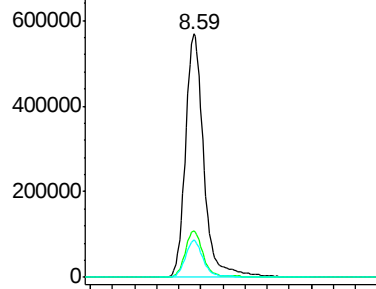
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053628.D
 Acq: 6 Feb 2019 12:16

Instrument :
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 PB116860ZHE#01

Tot Ion:114 Resp: 1307699
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.6
 88 15.3 0.0 30.4

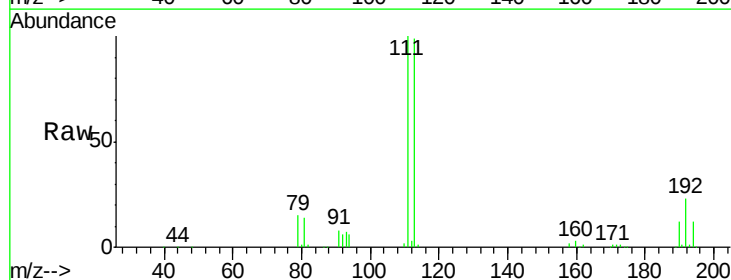


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

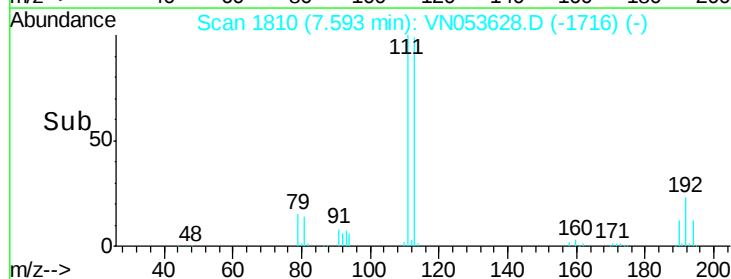
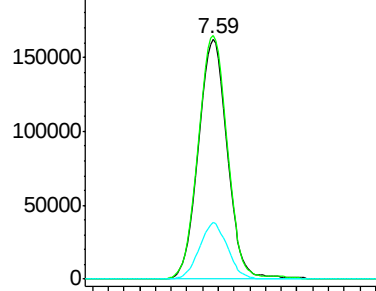


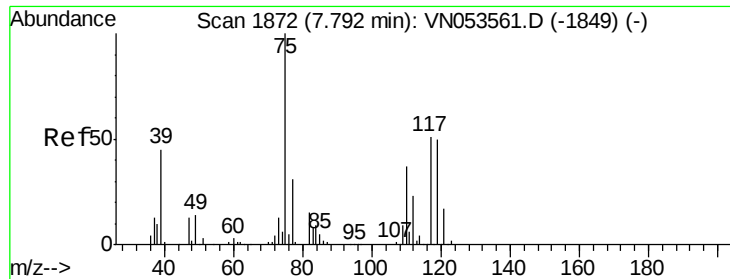
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053628.D
 Acq: 6 Feb 2019 12:16

Tgt Ion:113 Resp: 413564
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.1 121.7
 192 23.1 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

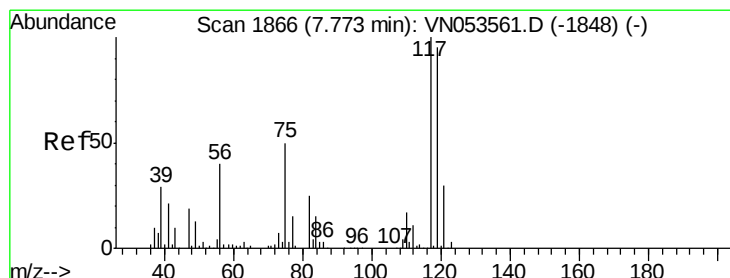
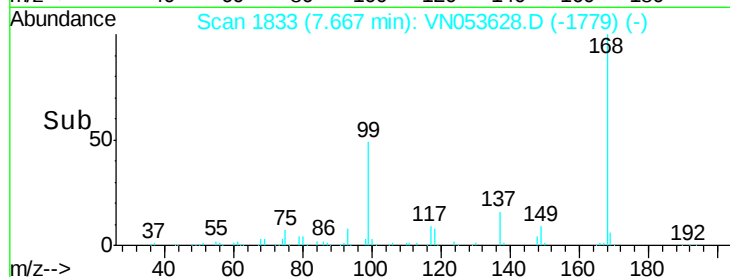
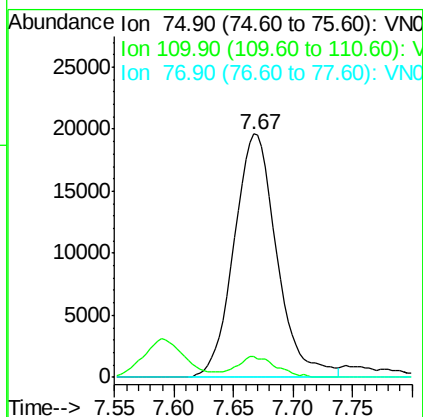
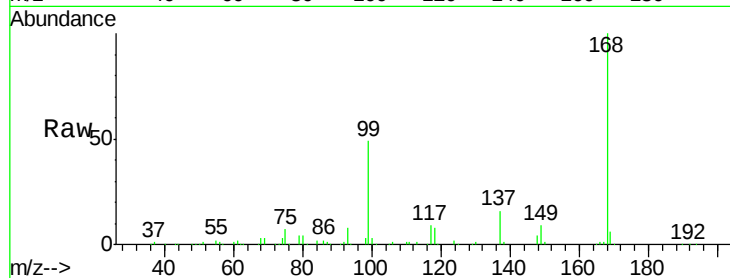




#36
 1,1-Dichloropropene
 Concen: 4.158 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053628.D
 Acq: 6 Feb 2019 12:16

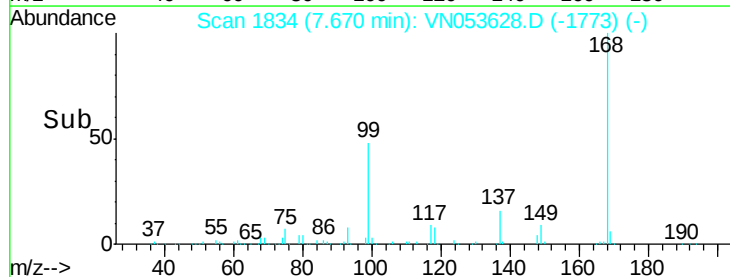
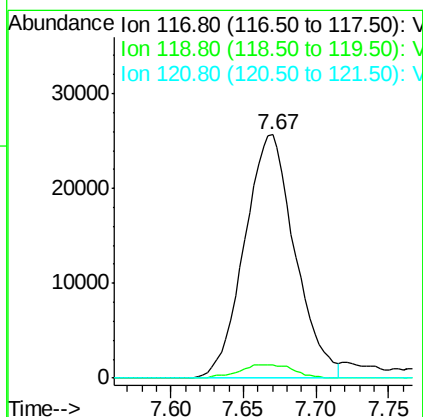
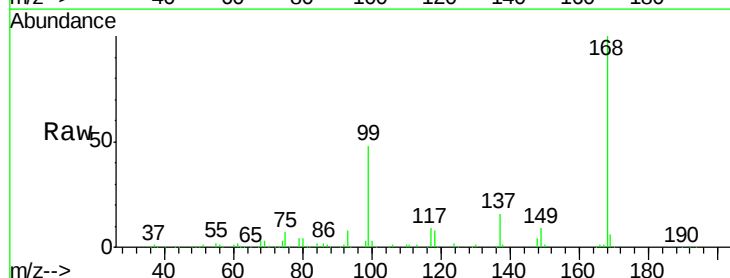
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#01

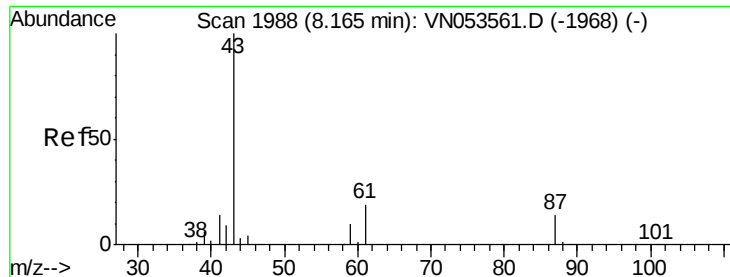
Tot Ion: 75 Resp: 49017
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.1 54.3#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.230 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.10 min
 Lab File: VN053628.D
 Acq: 6 Feb 2019 12:16

Tgt Ion: 117 Resp: 62108
 Ion Ratio Lower Upper
 117 100
 119 5.2 77.2 115.8#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 2.856 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#01

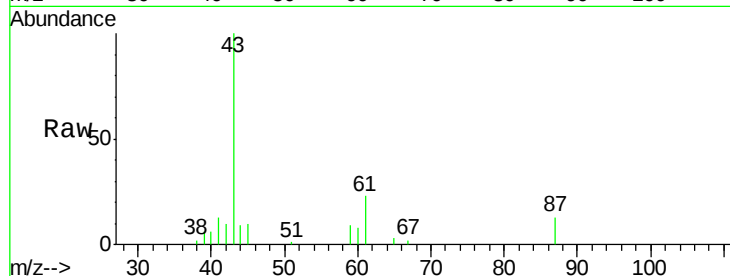
Tot Ion: 43 Resp: 36309

Ion Ratio Lower Upper

43 100

61 20.0 23.9 35.9#

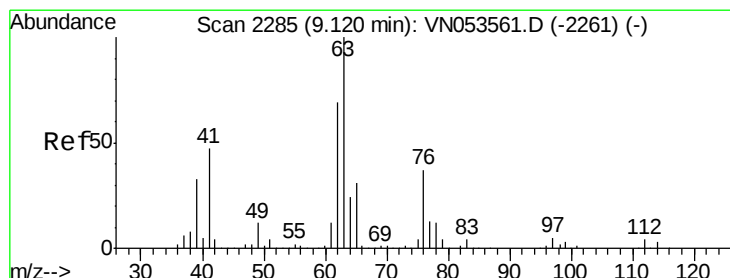
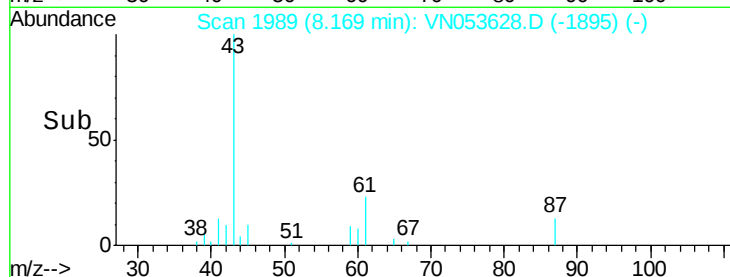
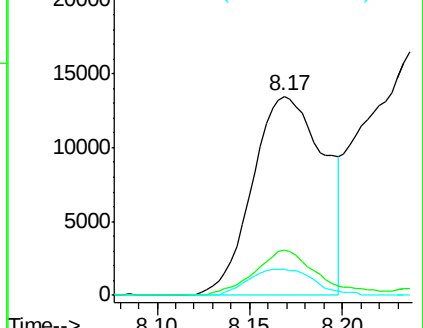
87 11.8 11.0 16.6



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



#45

1,2-Dichloropropane

Concen: 0.271 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN053628.D

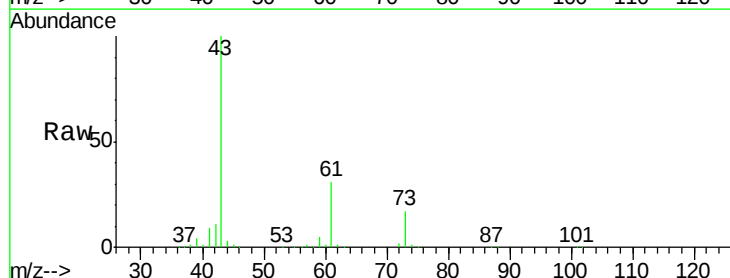
Acq: 6 Feb 2019 12:16

Tgt Ion: 63 Resp: 2522

Ion Ratio Lower Upper

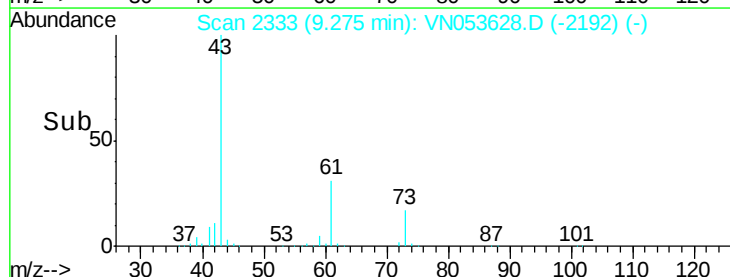
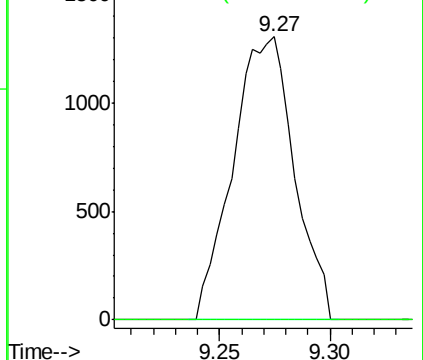
63 100

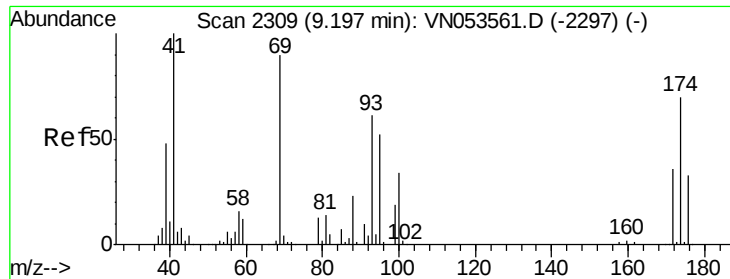
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

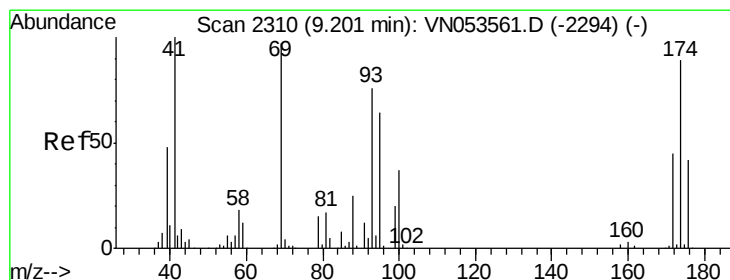
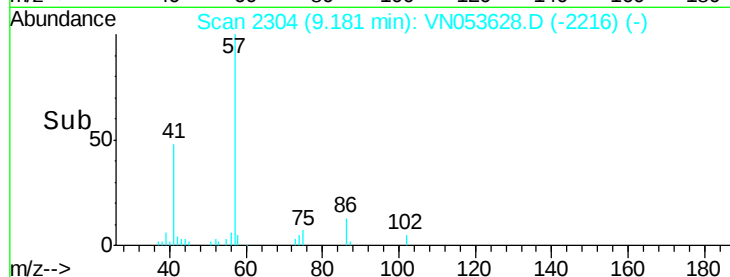
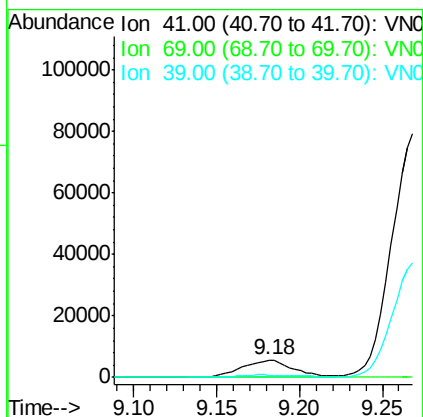
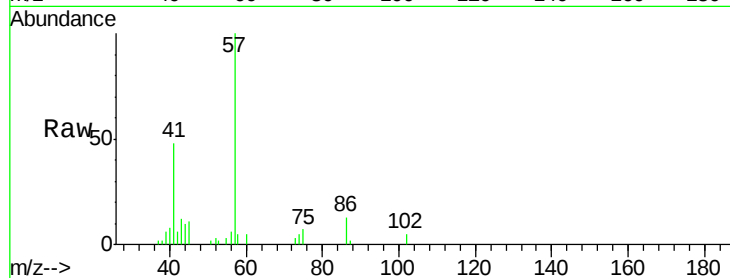




#48
Methyl methacrylate
Concen: 1.995 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

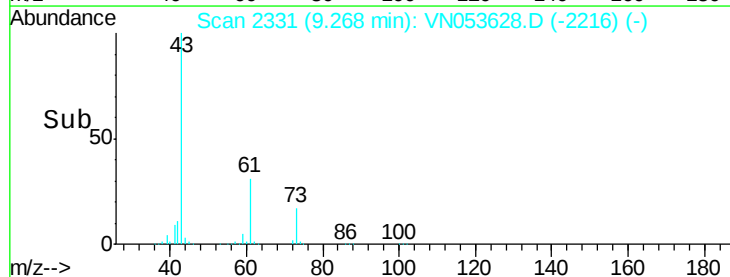
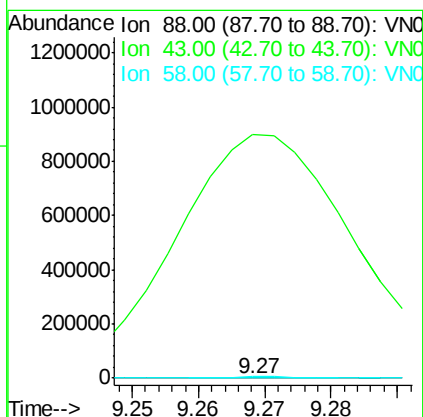
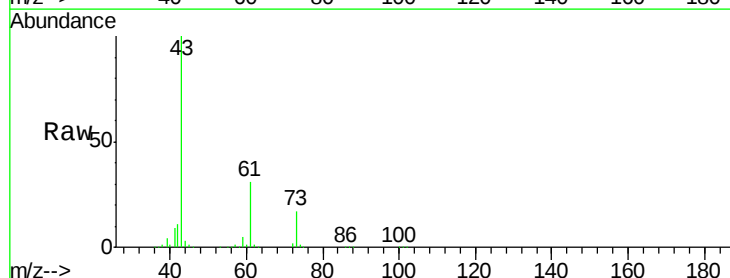
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#01

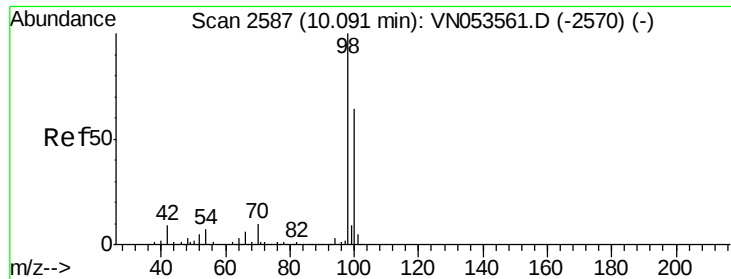
Tot Ion: 41 Resp: 12111
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 40.650 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

Tgt Ion: 88 Resp: 142
Ion Ratio Lower Upper
88 100
43 1311400.7 27.8 41.6#
58 5924.6 56.5 84.7#





#50

Toluene-d8

Concen: 40.650 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

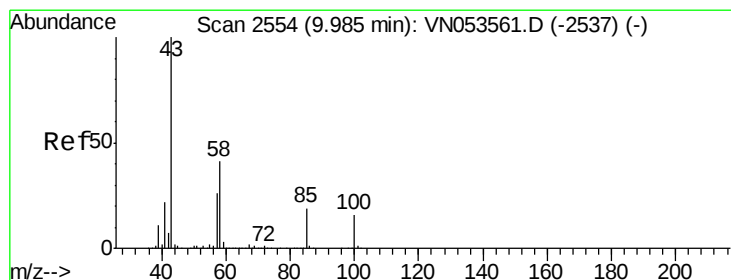
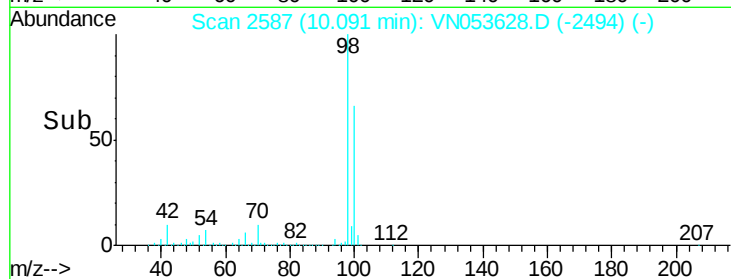
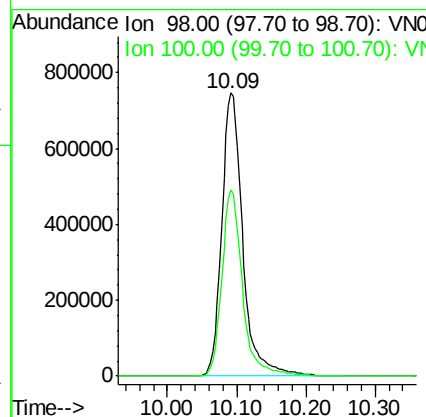
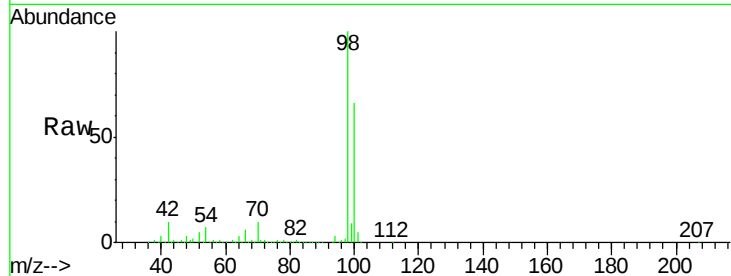
PB116860ZHE#01

Tot Ion: 98 Resp: 1567049

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.579 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN053628.D

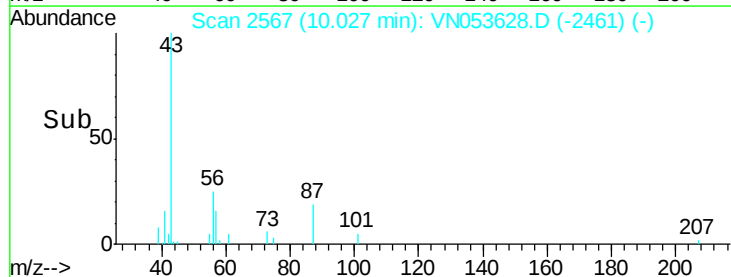
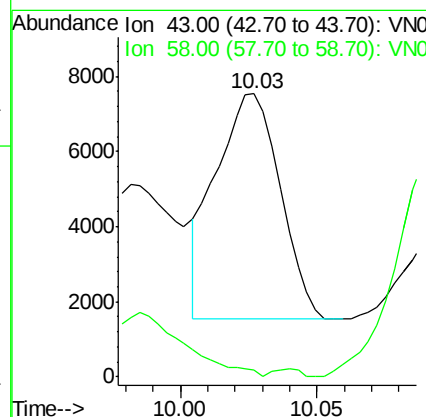
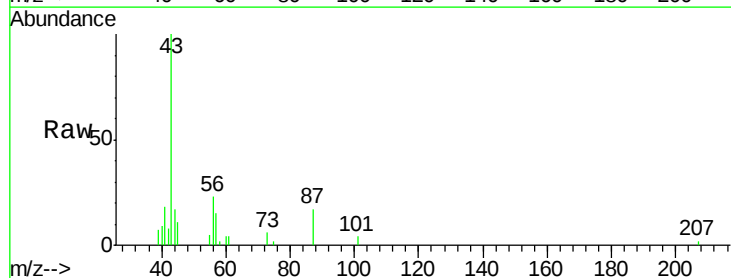
Acq: 6 Feb 2019 12:16

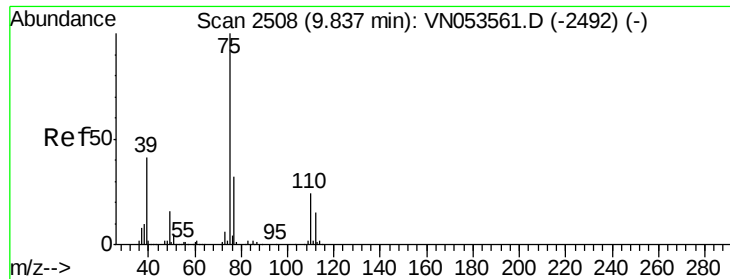
Tgt Ion: 43 Resp: 9864

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 6.377 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#01

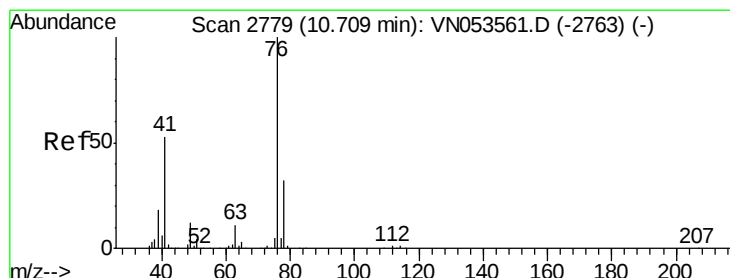
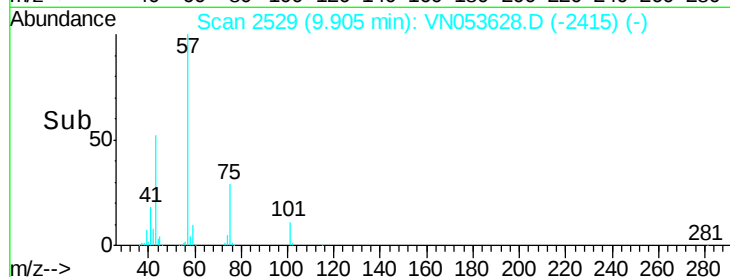
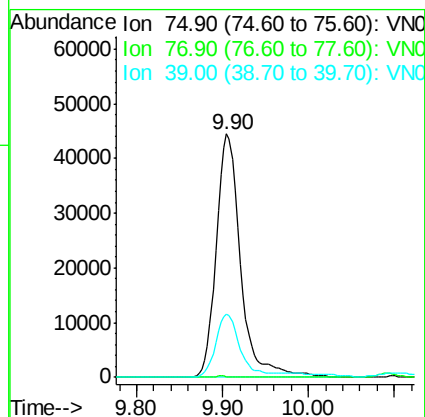
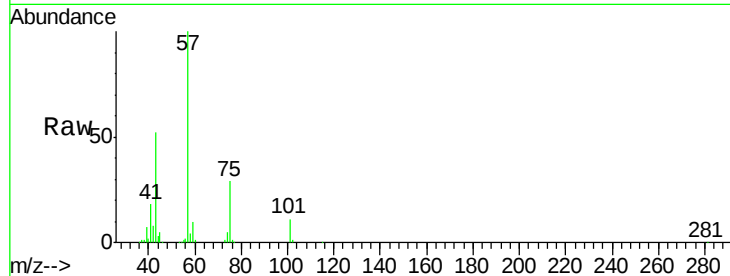
Tot Ion: 75 Resp: 88183

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 26.0 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 1.265 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053628.D

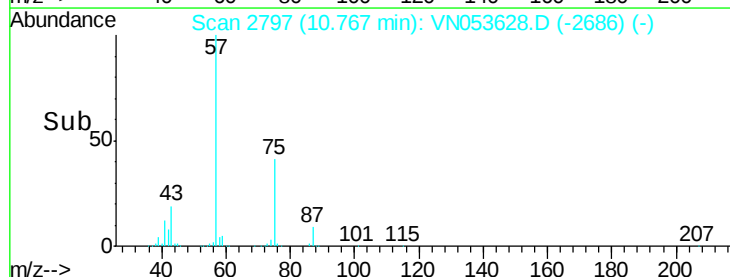
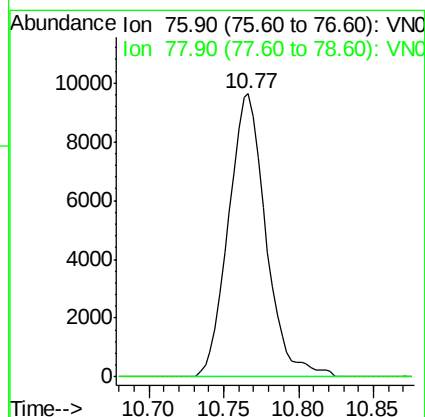
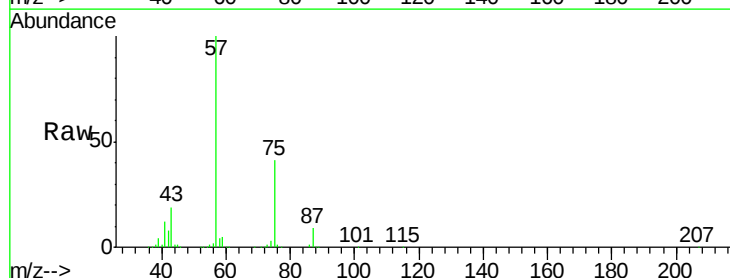
Acq: 6 Feb 2019 12:16

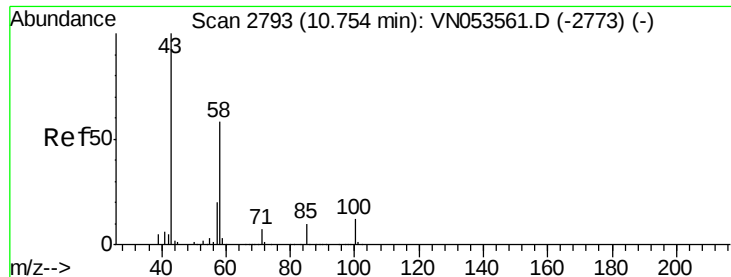
Tgt Ion: 76 Resp: 16802

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

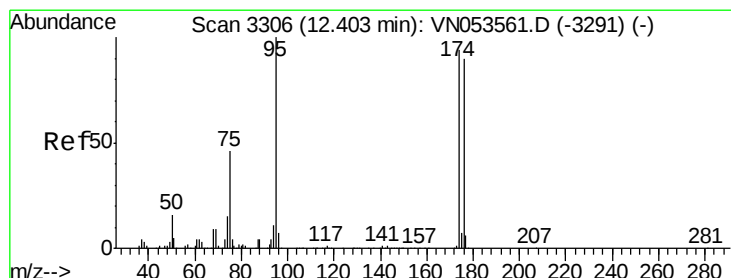
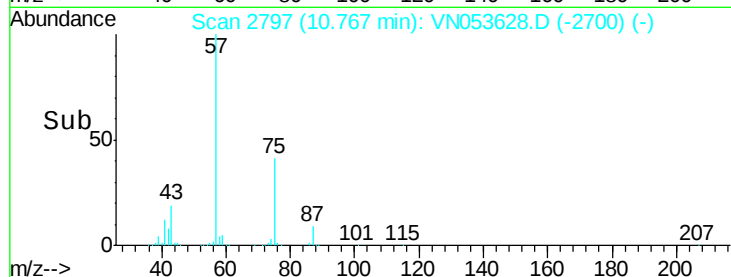
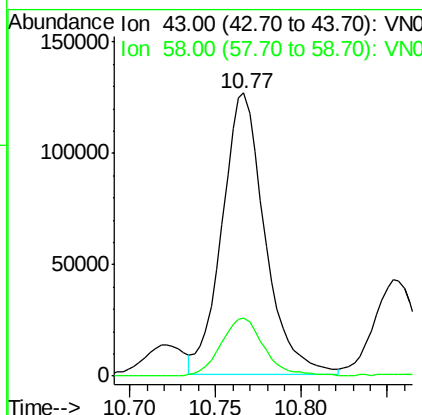
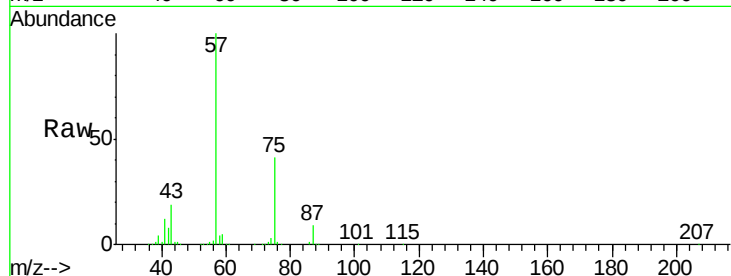




#59
2-Hexanone
Concen: 52.239 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

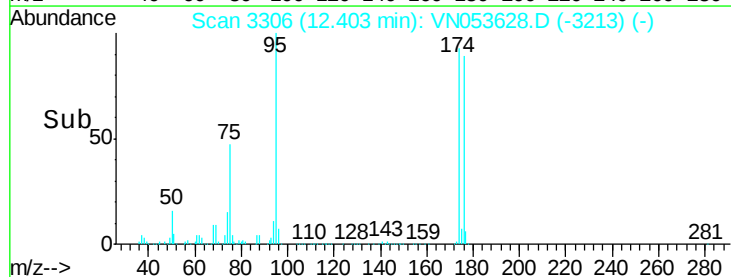
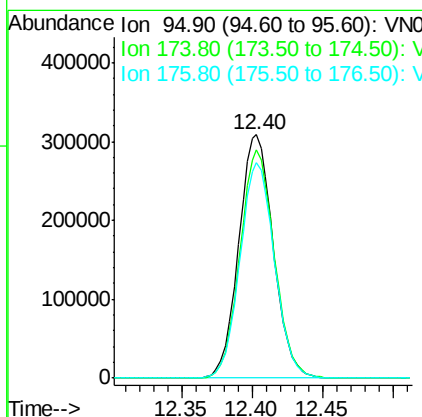
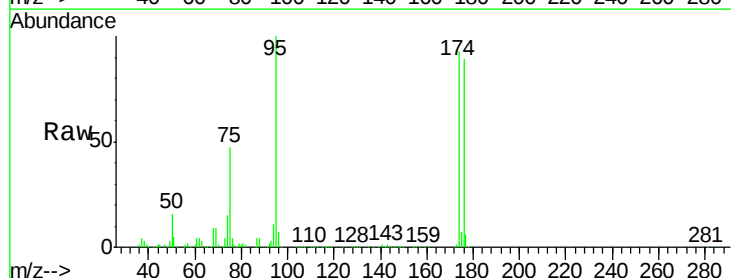
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#01

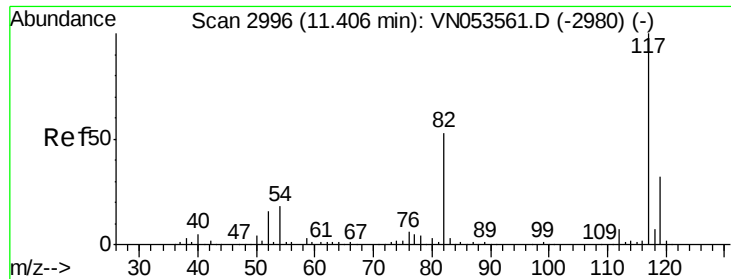
Tot Ion: 43 Resp: 221573
Ion Ratio Lower Upper
43 100
58 20.8 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

Tgt Ion: 95 Resp: 528500
Ion Ratio Lower Upper
95 100
174 93.1 0.0 183.2
176 88.7 0.0 177.4

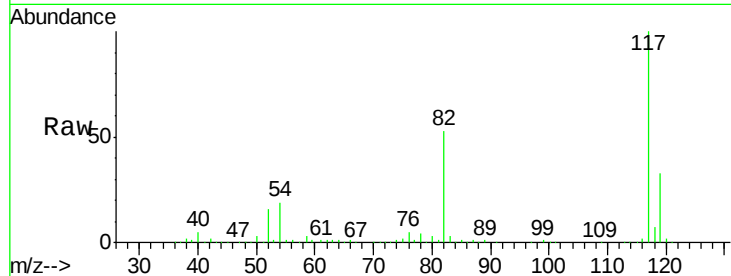




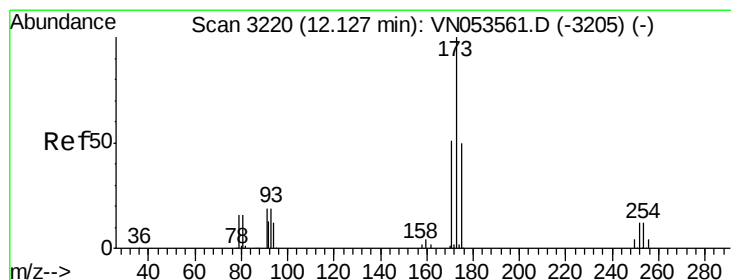
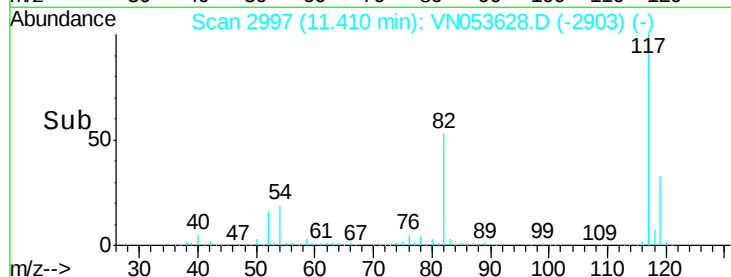
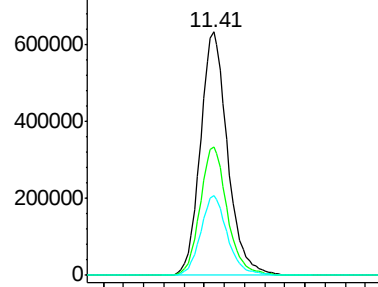
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#01

Tot Ion:117 Resp: 1189266
Ion Ratio Lower Upper
117 100
82 52.8 42.9 64.3
119 32.5 26.0 39.0

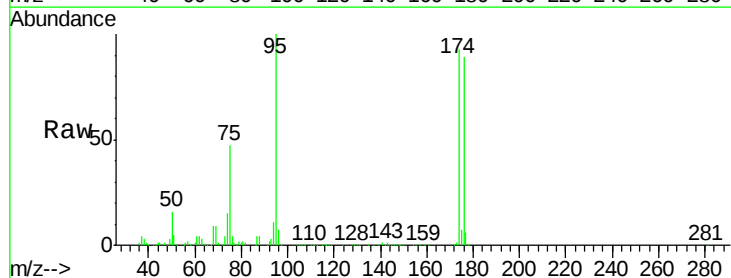


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

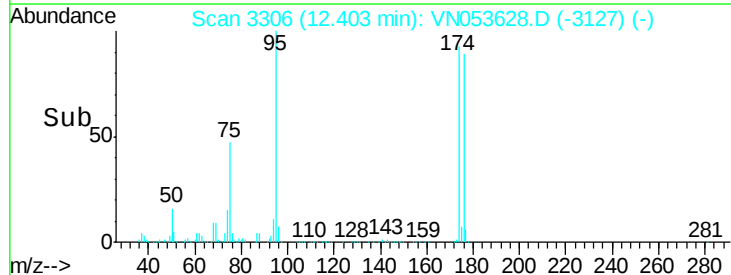
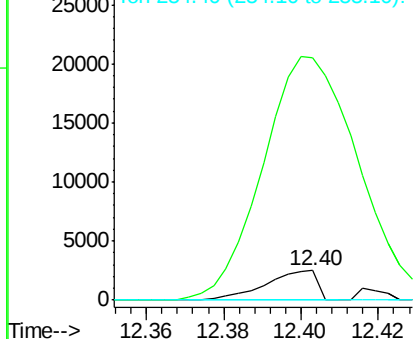


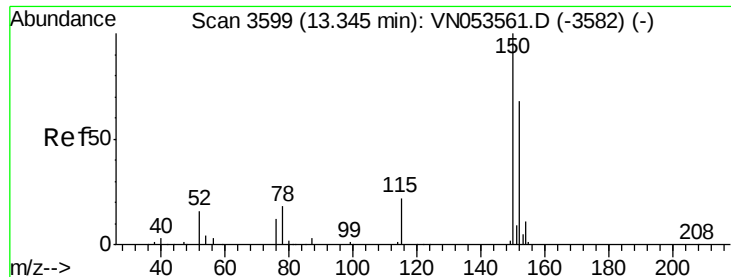
#71
Bromoform
Concen: 0.382 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053628.D
Acq: 6 Feb 2019 12:16

Tgt Ion:173 Resp: 2308
Ion Ratio Lower Upper
173 100
175 1290.9 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: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#01

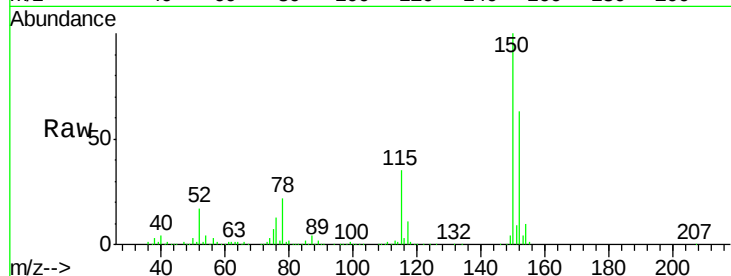
Tot Ion:152 Resp: 509233

Ion Ratio Lower Upper

152 100

115 55.0 27.8 83.4

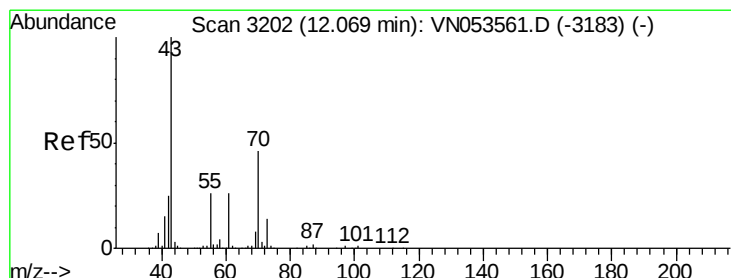
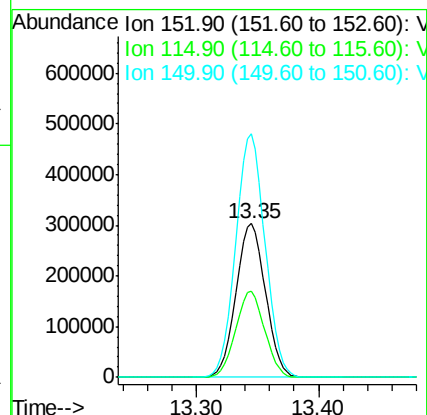
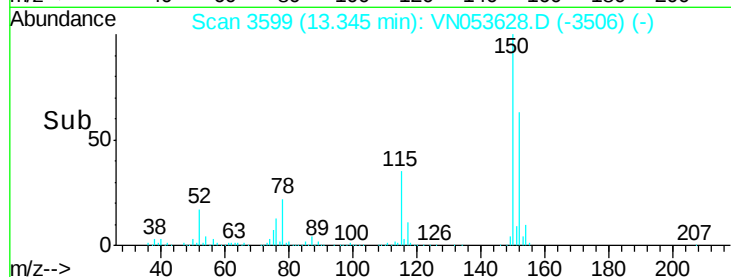
150 157.5 0.0 349.0



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



#74

N-ethyl acetate

Concen: 2.882 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

Tgt Ion: 43 Resp: 24806

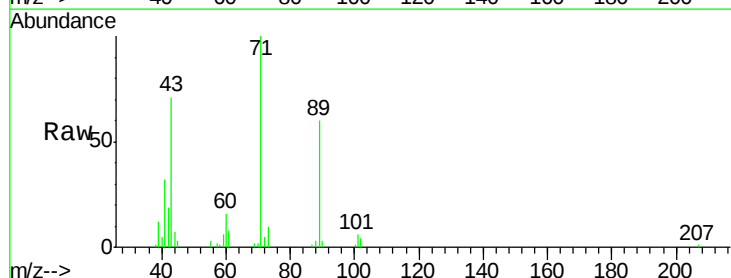
Ion Ratio Lower Upper

43 100

70 2.3 35.4 53.2#

55 4.5 20.9 31.3#

61 10.7 20.5 30.7#

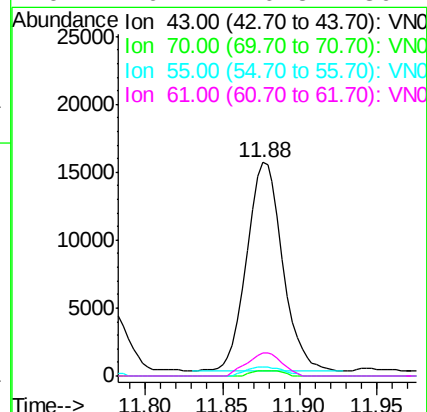
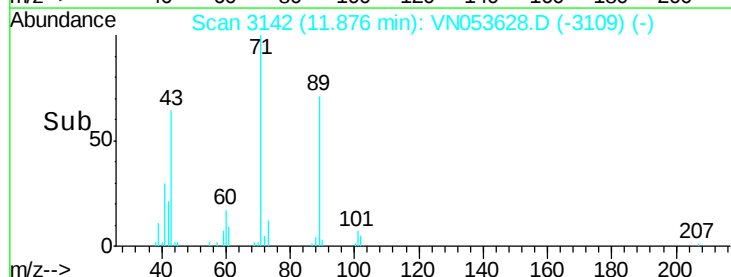


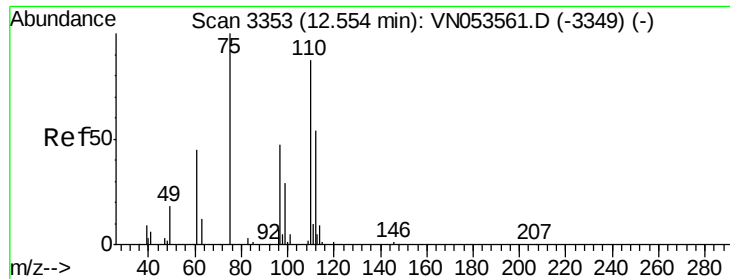
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 37.047 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

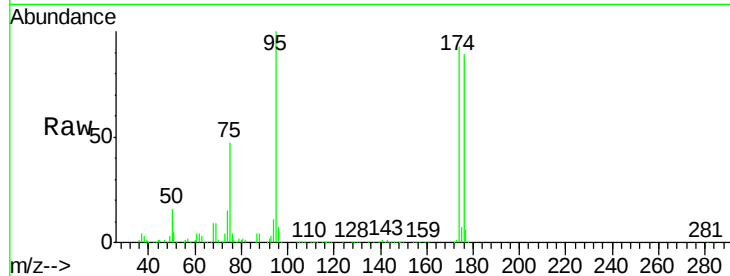
PB116860ZHE#01

Tot Ion: 75 Resp: 242319

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)

12.40

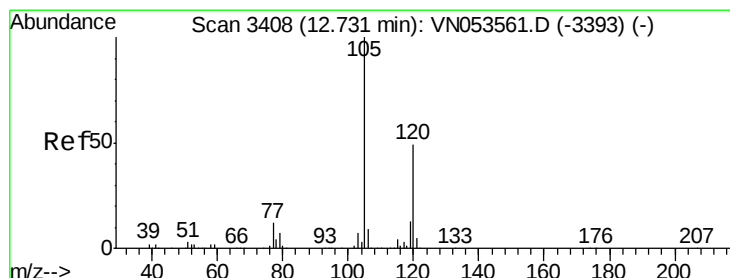
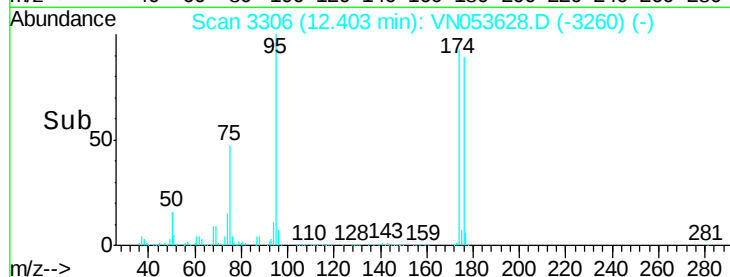
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.283 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053628.D

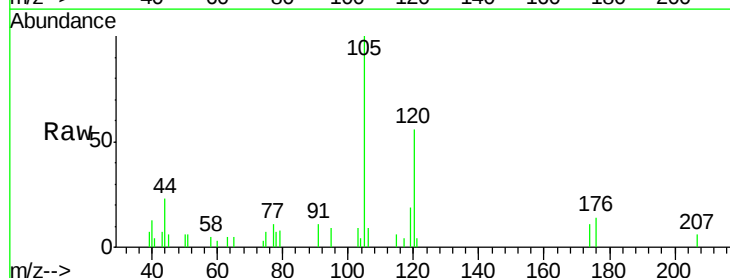
Acq: 6 Feb 2019 12:16

Tgt Ion: 105 Resp: 8402

Ion Ratio Lower Upper

105 100

120 50.8 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

12.73

6000

5000

4000

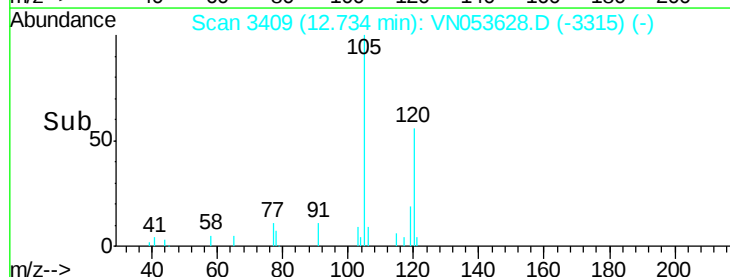
3000

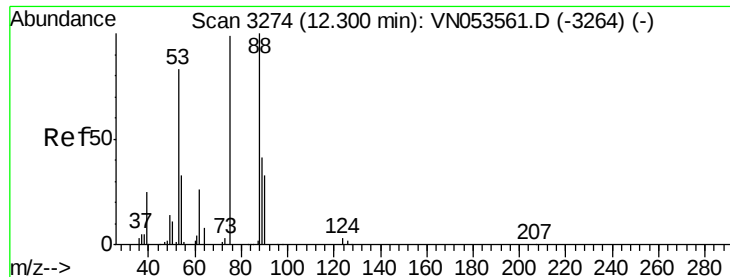
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 104.174 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#01

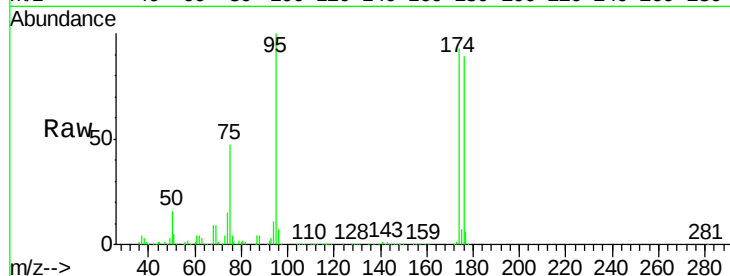
Tot Ion: 75 Resp: 242319

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

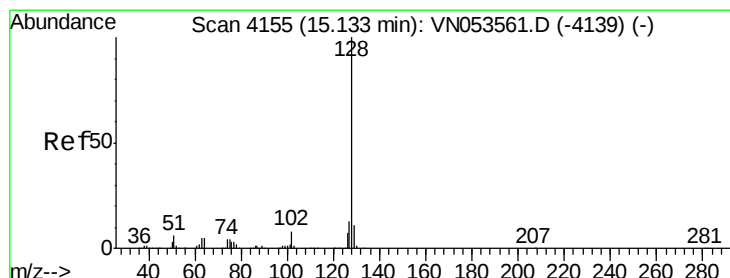
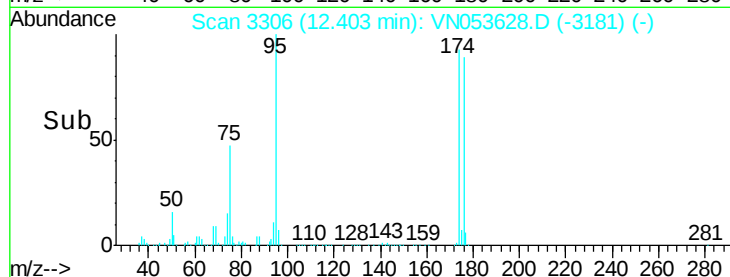
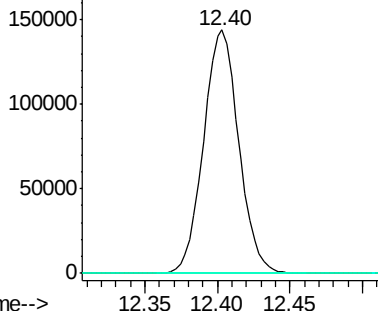
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053628.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053628.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053628.D (-3181) (-)



#95

Naphthalene

Concen: 1.805 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053628.D

Acq: 6 Feb 2019 12:16

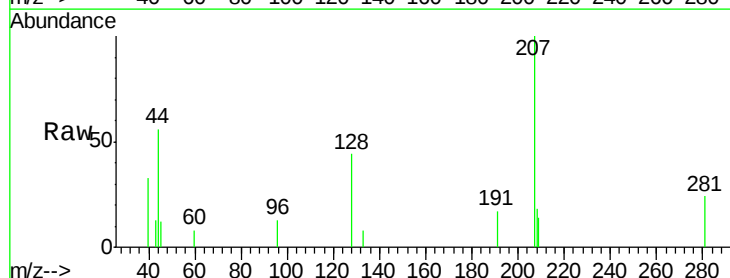
Tgt Ion: 128 Resp: 1591

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): VN053628.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053628.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053628.D (-4061) (-)

