

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN031419\
 Data File : VN054268.D
 Acq On : 14 Mar 2019 18:04
 Operator : JC/SP
 Sample : K1898-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

Quant Time: Mar 26 01:35:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1475761	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2456785	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2524697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1083648	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	759867	48.48	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.96%	
35) Dibromofluoromethane	7.59	113	754611	47.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.24%	
50) Toluene-d8	10.09	98	3017059	51.56	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	12.40	95	1139172	55.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.28%	

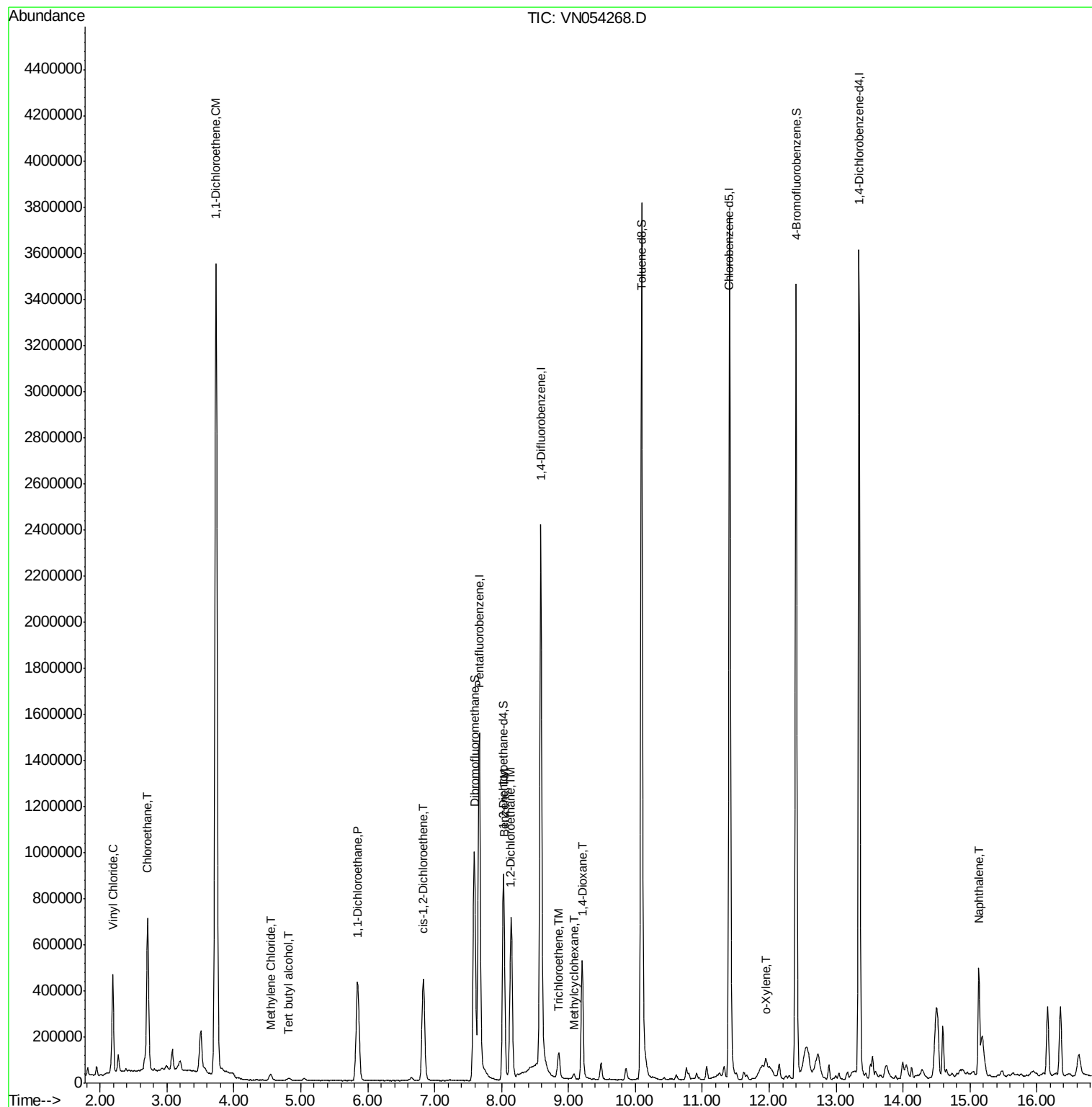
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	387911	24.98	ug/l	99
6) Chloroethane	2.71	64	594254	63.25	ug/l	98
11) Tert butyl alcohol	4.81	59	16234	15.11	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	2041251	133.14	ug/l	97
20) Methylene Chloride	4.55	84	19842	1.35	ug/l	97
24) 1,1-Dichloroethane	5.85	63	656964	26.06	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	326488	19.92	ug/l	86
39) Methylcyclohexane	9.08	83	11079	0.40	ug/l	96
40) Benzene	8.04	78	48880	0.75	ug/l	97
42) 1,2-Dichloroethane	8.13	62	146021	6.68	ug/l	98
44) Trichloroethene	8.84	130	17184	0.85	ug/l	86
49) 1,4-Dioxane	9.20	88	462081	2821.04	ug/l #	93
69) o-Xylene	11.95	106	10959	0.31	ug/l	97
95) Naphthalene	15.13	128	433448	11.96	ug/l	99

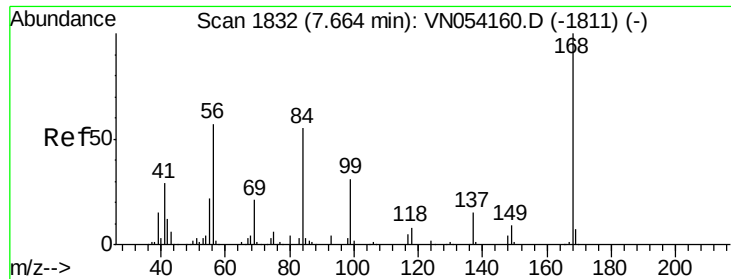
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

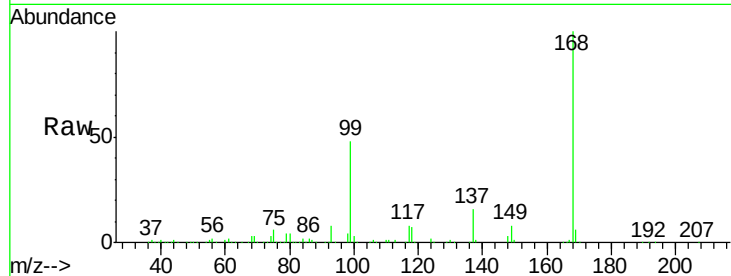
MW-1

Tot Ion:168 Resp: 1475761

Ion Ratio Lower Upper

168 100

99 47.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

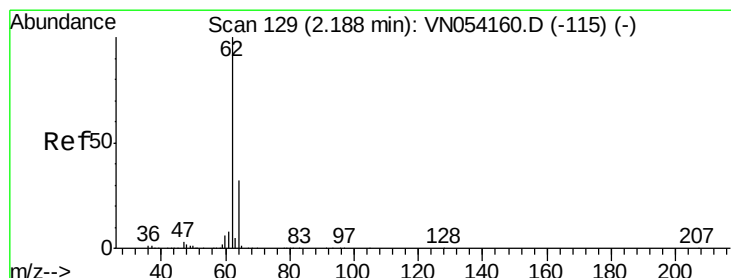
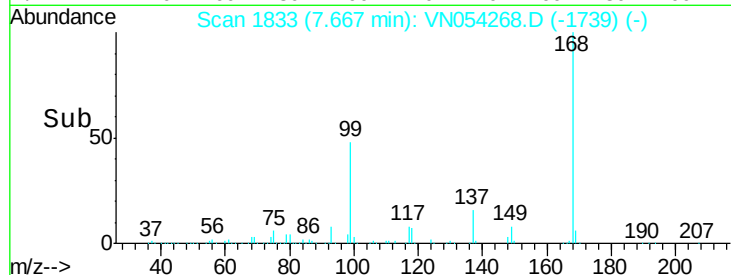
600000

400000

200000

0

Time-->



#4

Vinyl Chloride

Concen: 24.98 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054268.D

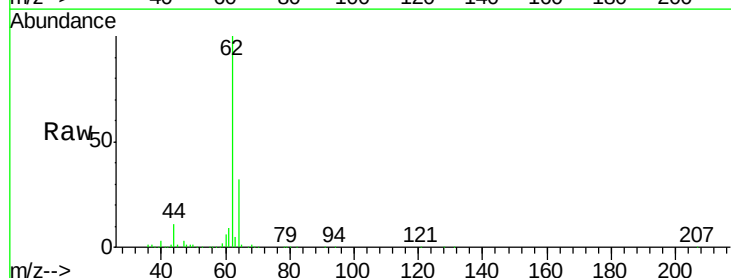
Acq: 14 Mar 2019 18:04

Tgt Ion: 62 Resp: 387911

Ion Ratio Lower Upper

62 100

64 32.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

300000

250000

200000

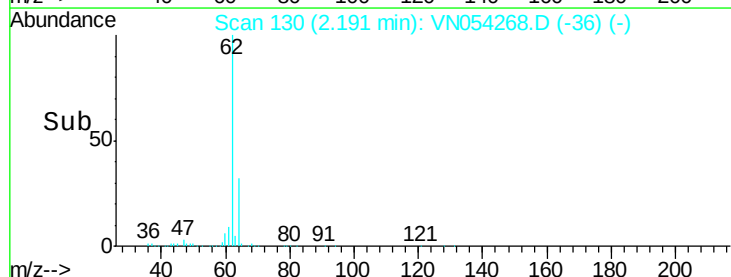
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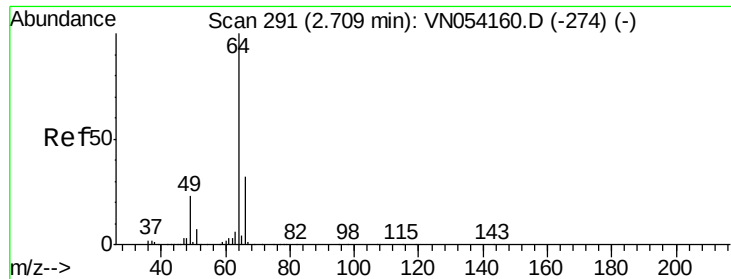
100000

50000

0

Time-->





#6

Chloroethane

Concen: 63.25 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

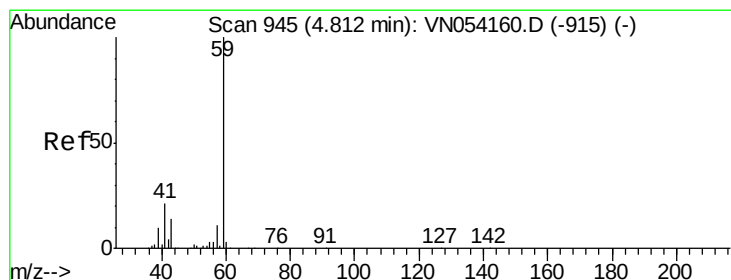
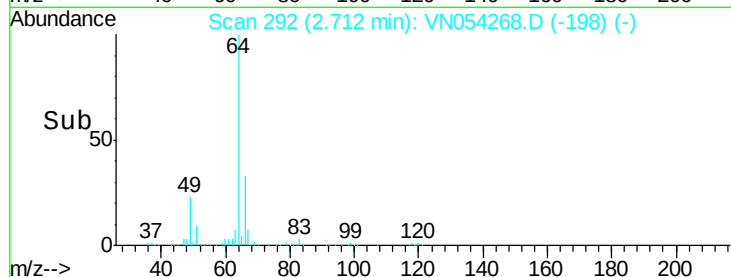
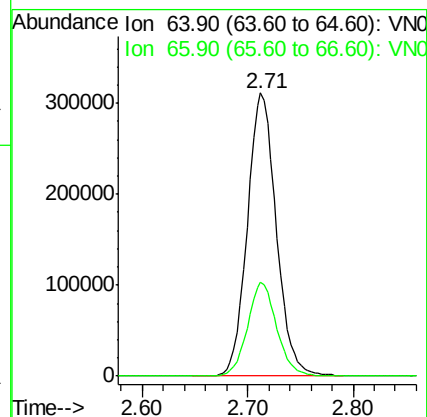
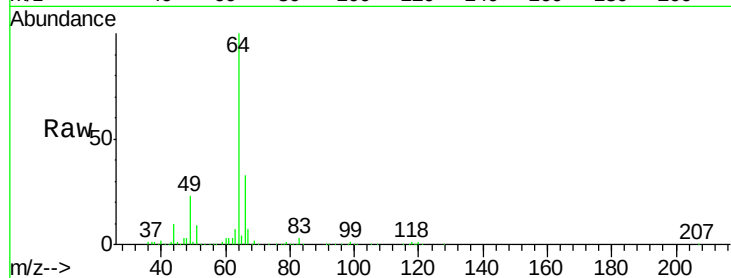
MW-1

Tot Ion: 64 Resp: 594254

Ion Ratio Lower Upper

64 100

66 33.3 25.7 38.5



#11

Tert butyl alcohol

Concen: 15.11 ug/l

RT: 4.81 min Scan# 945

Delta R.T. 0.00 min

Lab File: VN054268.D

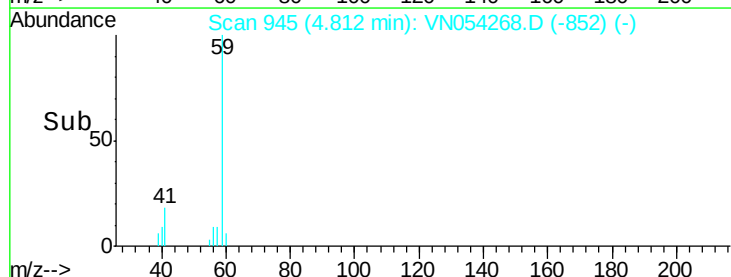
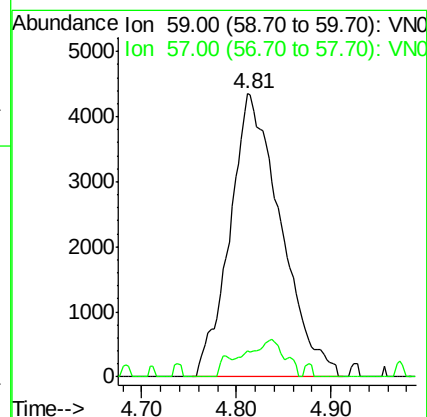
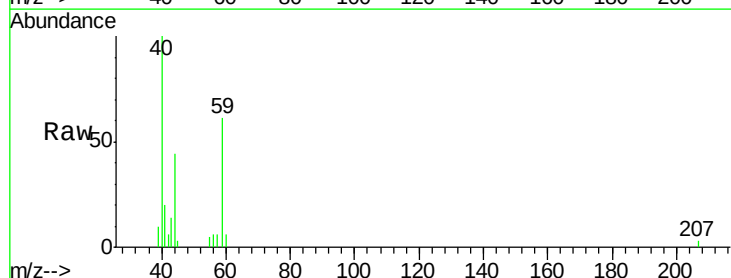
Acq: 14 Mar 2019 18:04

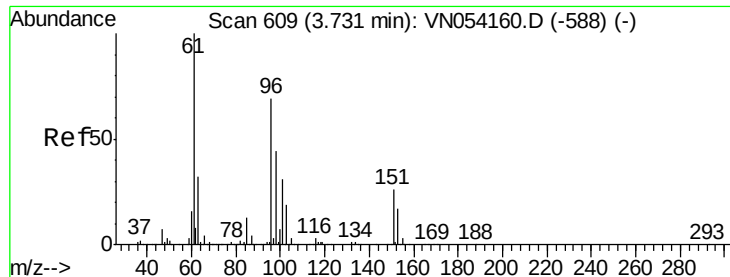
Tgt Ion: 59 Resp: 16234

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#





#12

1,1-Dichloroethene

Concen: 133.14 ug/l

RT: 3.73 min Scan# 609

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

MW-1

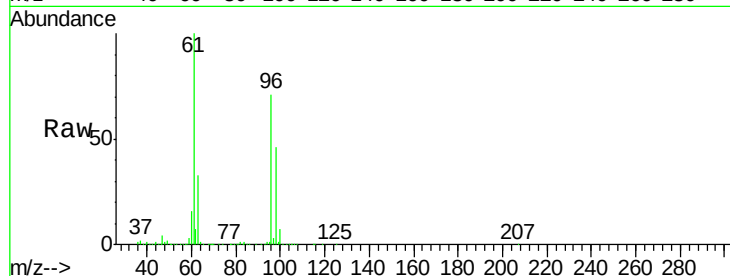
Tot Ion: 96 Resp: 2041251

Ion	Ratio	Lower	Upper
96	100		
61	141.3	116.5	174.7
98	64.4	51.0	76.4

96 100

61 141.3 116.5 174.7

98 64.4 51.0 76.4

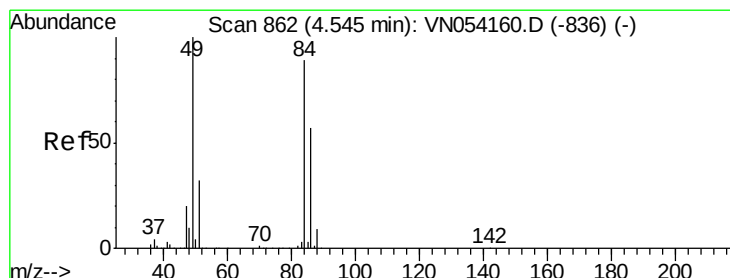
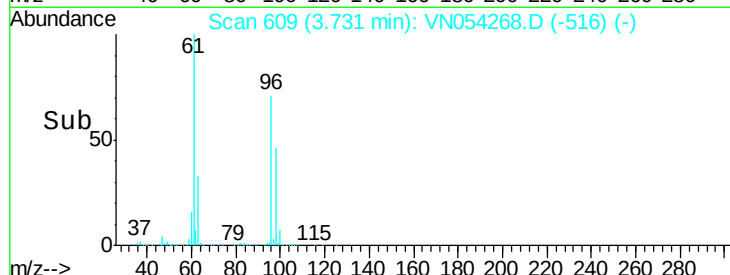
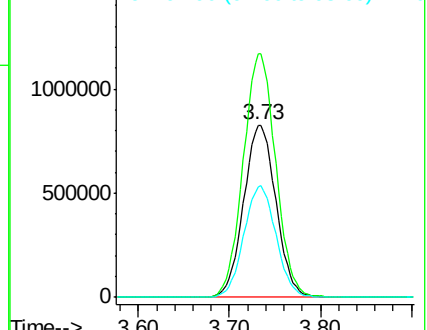


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#20

Methylene Chloride

Concen: 1.35 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Tgt Ion: 84 Resp: 19842

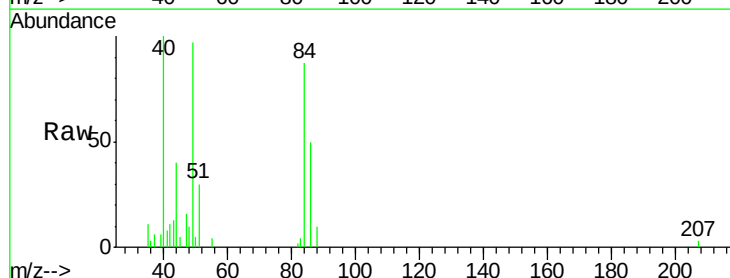
Ion	Ratio	Lower	Upper
84	100		
49	111.4	89.7	134.5
51	34.6	28.2	42.4
86	57.3	50.8	76.2

84 100

49 111.4 89.7 134.5

51 34.6 28.2 42.4

86 57.3 50.8 76.2



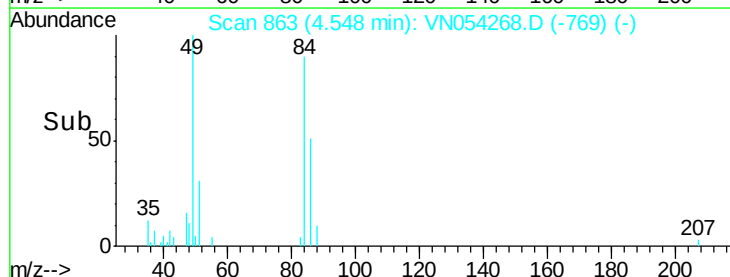
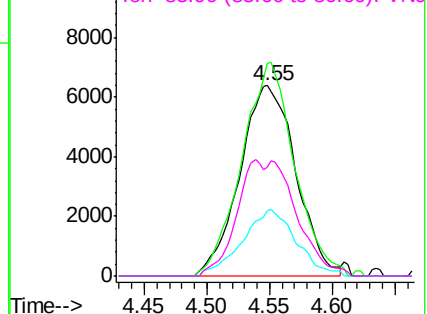
Abundance

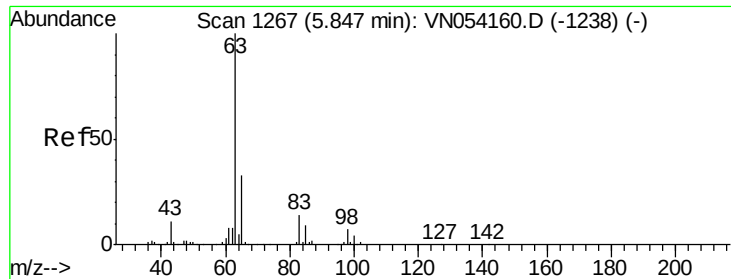
Ion 83.90 (83.60 to 84.60): VN0

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





#24

1,1-Dichloroethane

Concen: 26.06 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

MW-1

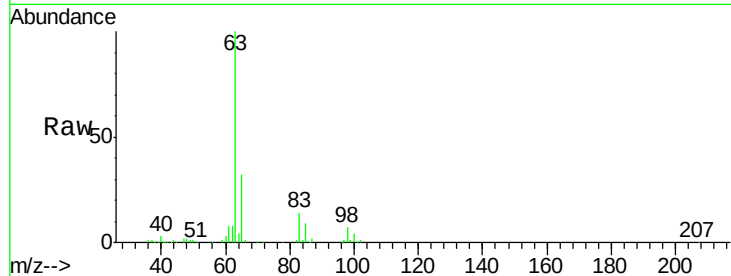
Tot Ion: 63 Resp: 656964

Ion Ratio Lower Upper

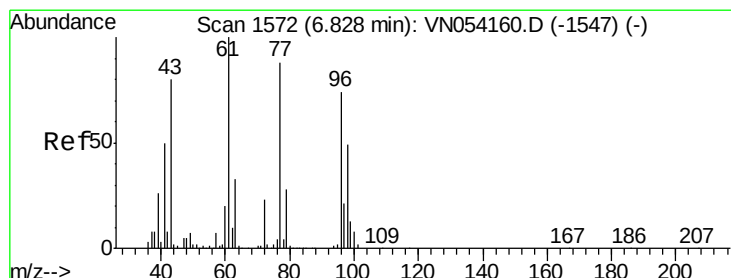
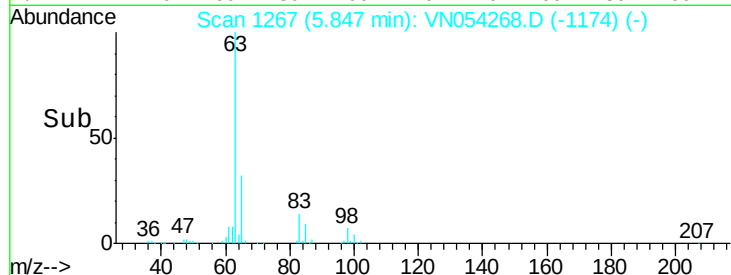
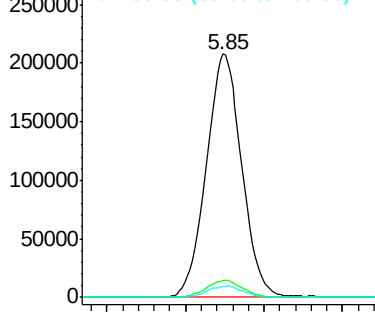
63 100

98 6.8 3.5 10.5

100 4.4 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 19.92 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

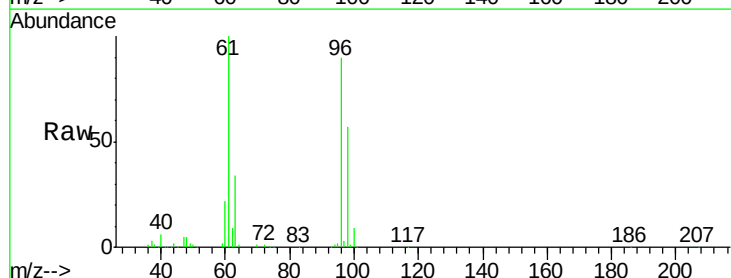
Tgt Ion: 96 Resp: 326488

Ion Ratio Lower Upper

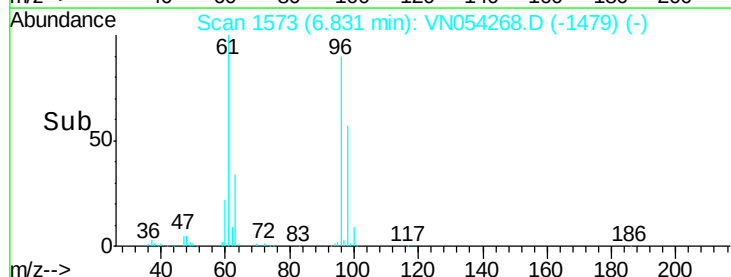
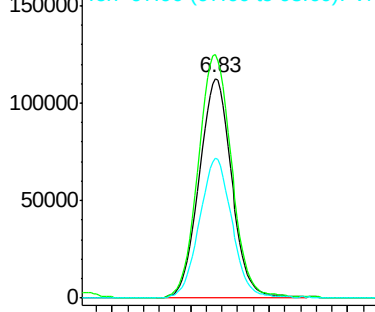
96 100

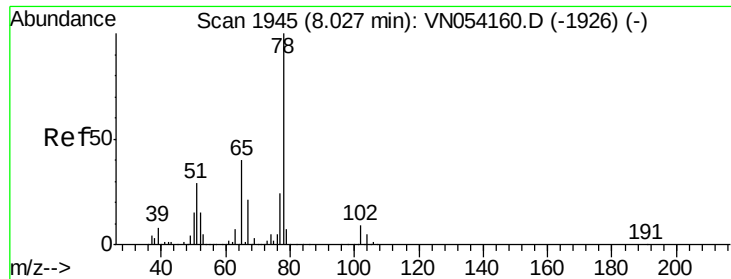
61 113.3 0.0 273.0

98 63.7 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

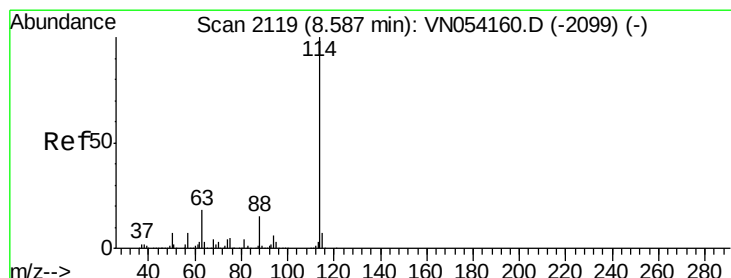
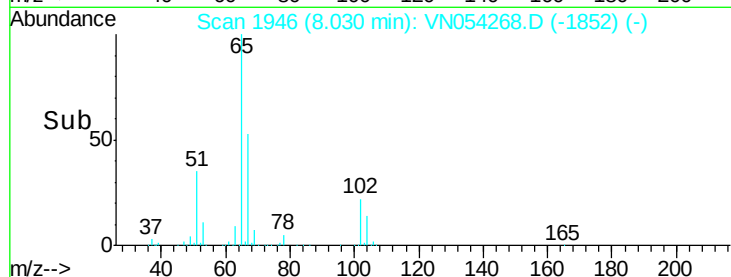
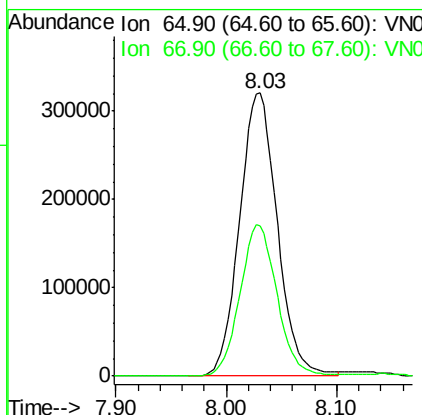
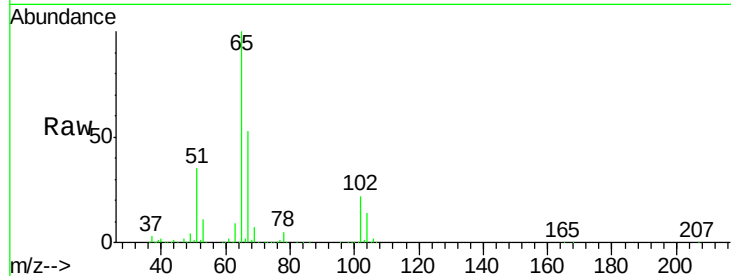




#33
 1,2-Dichloroethane-d4
 Concen: 48.48 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054268.D
 Acq: 14 Mar 2019 18:04

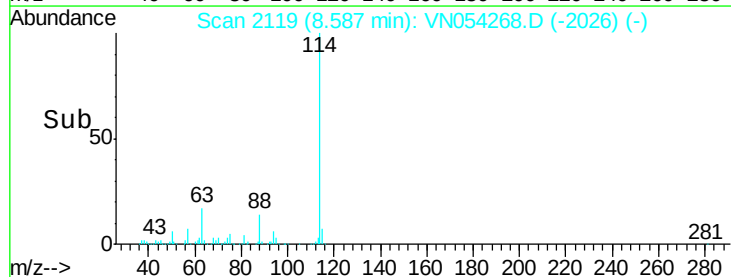
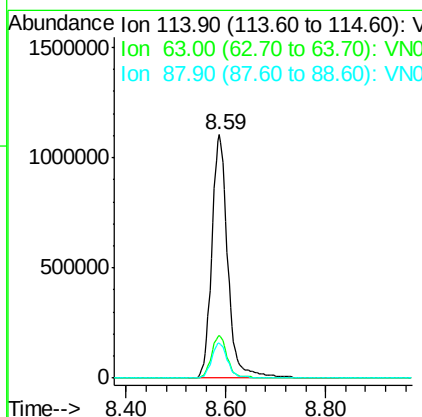
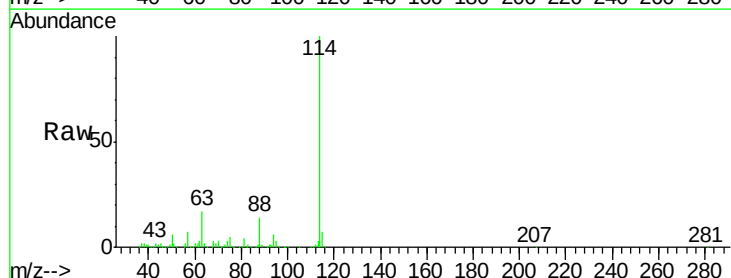
Instrument :
 MSVOA_N
 ClientSampled :
 MW-1

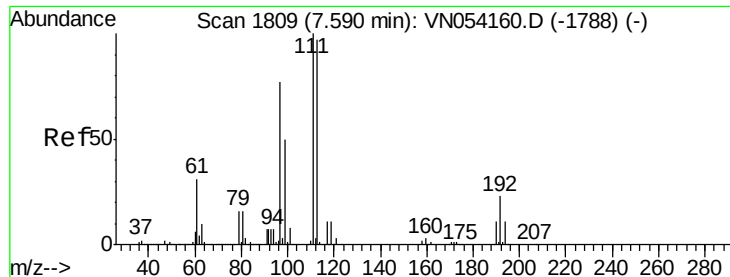
Tot Ion: 65 Resp: 759867
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054268.D
 Acq: 14 Mar 2019 18:04

Tgt Ion: 114 Resp: 2456785
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 35.2
 88 14.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.62 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

MW-1

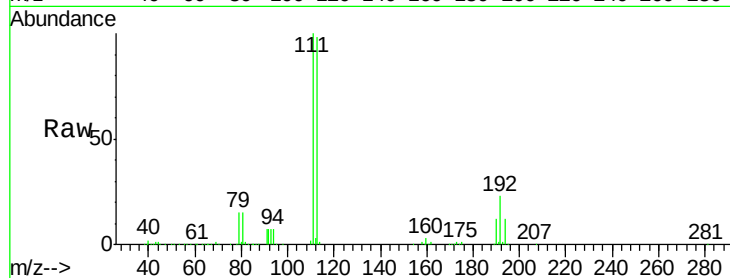
Tot Ion:113 Resp: 754611

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

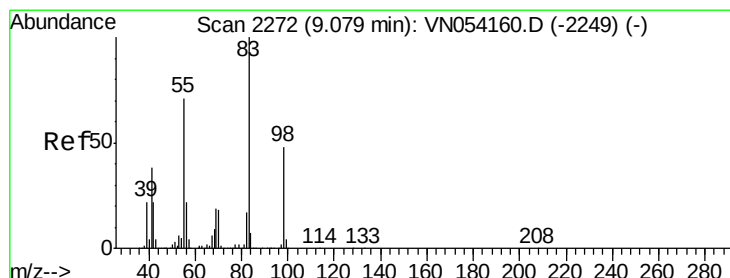
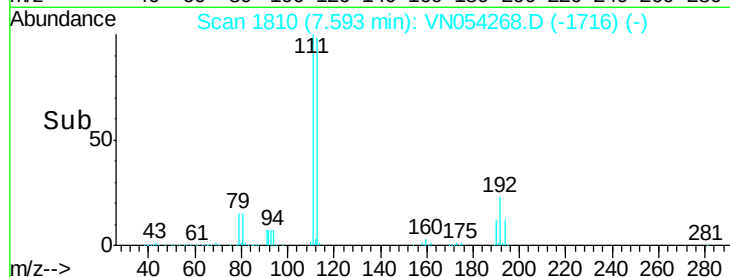
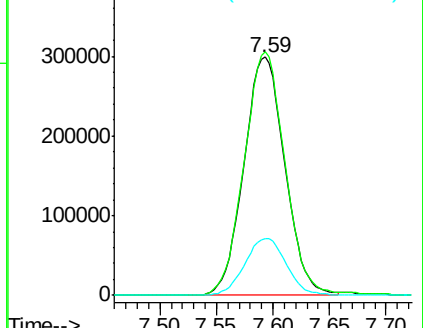
192 24.3 19.2 28.8



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



#39

Methylcyclohexane

Concen: 0.40 ug/l

RT: 9.08 min Scan# 2274

Delta R.T. 0.01 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

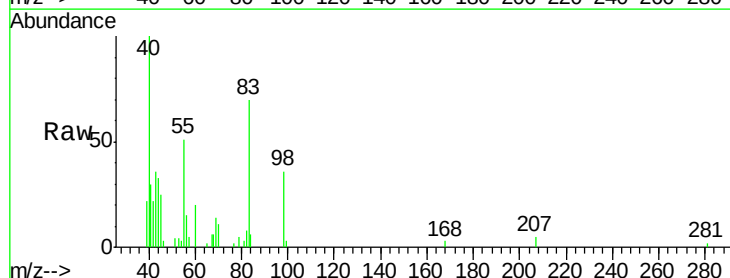
Tgt Ion: 83 Resp: 11079

Ion Ratio Lower Upper

83 100

55 68.2 56.6 84.8

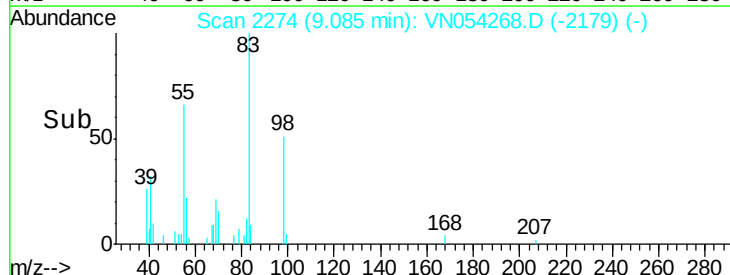
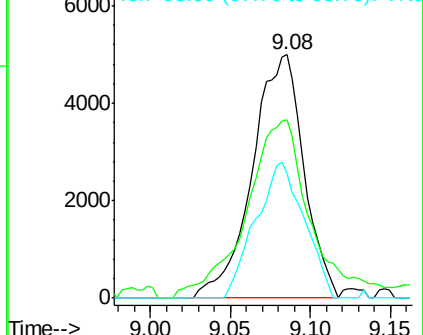
98 51.1 38.4 57.6

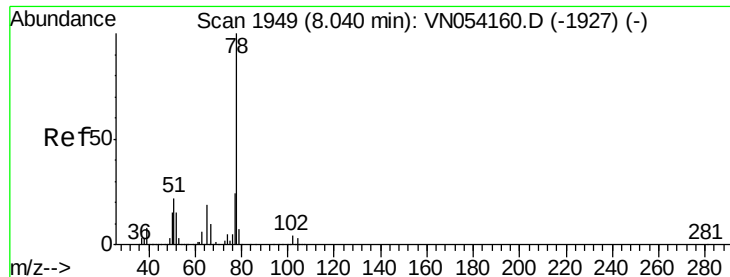


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#40

Benzene

Concen: 0.75 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

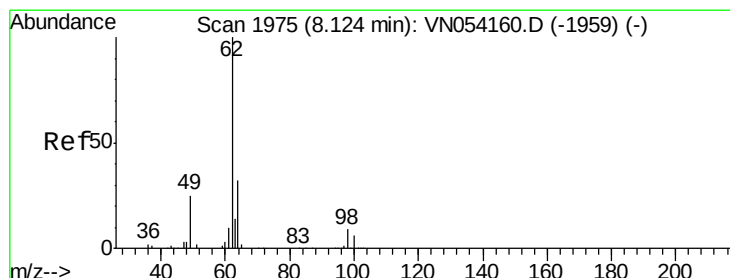
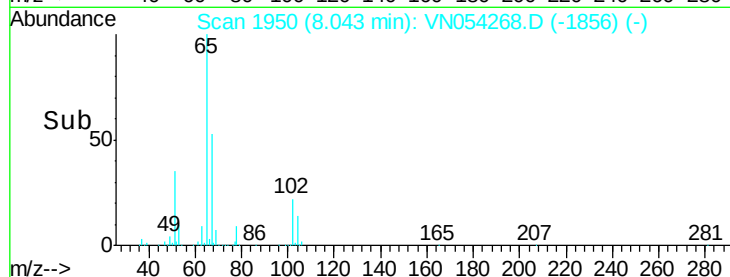
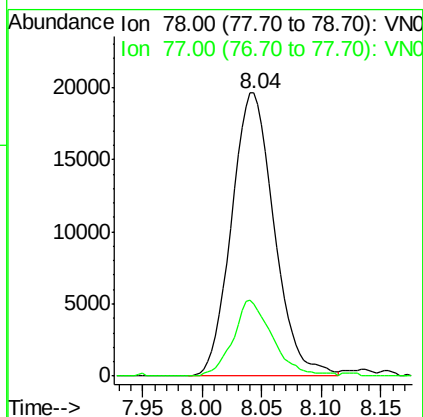
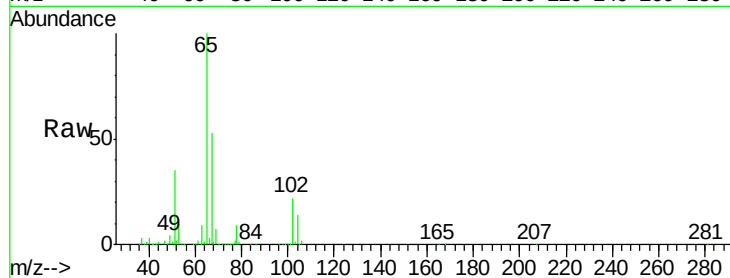
MW-1

Tot Ion: 78 Resp: 48880

Ion Ratio Lower Upper

78 100

77 25.5 19.1 28.7



#42

1,2-Dichloroethane

Concen: 6.68 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN054268.D

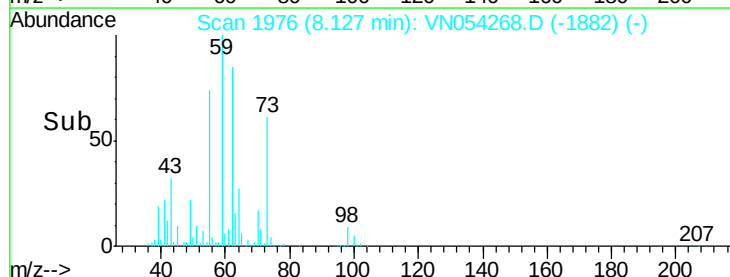
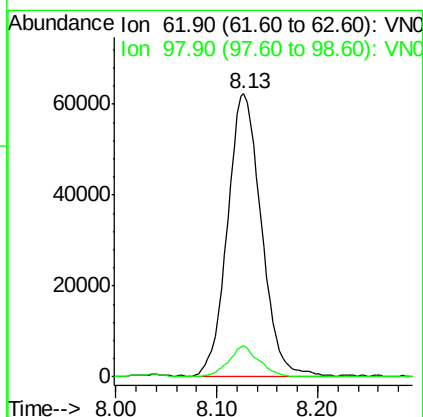
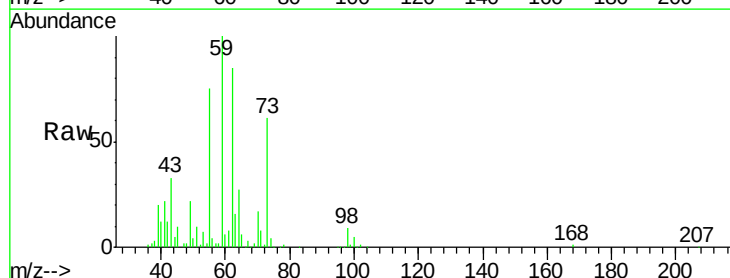
Acq: 14 Mar 2019 18:04

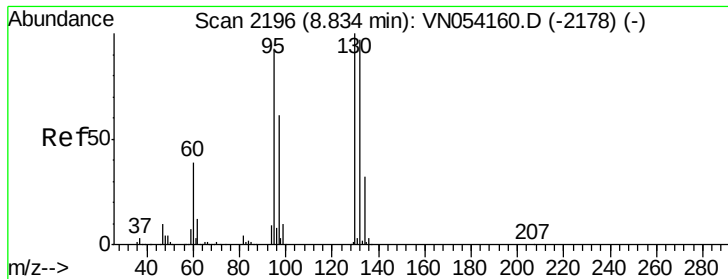
Tgt Ion: 62 Resp: 146021

Ion Ratio Lower Upper

62 100

98 9.9 0.0 18.4





#44

Trichloroethene

Concen: 0.85 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

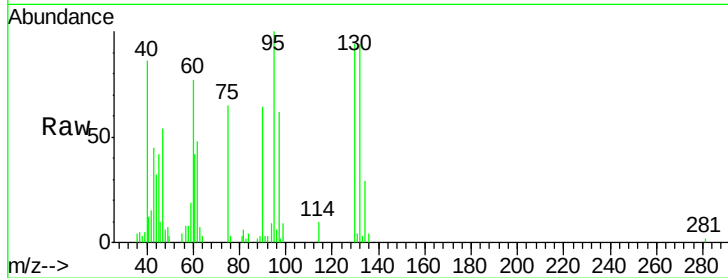
MW-1

Tot Ion:130 Resp: 17184

Ion Ratio Lower Upper

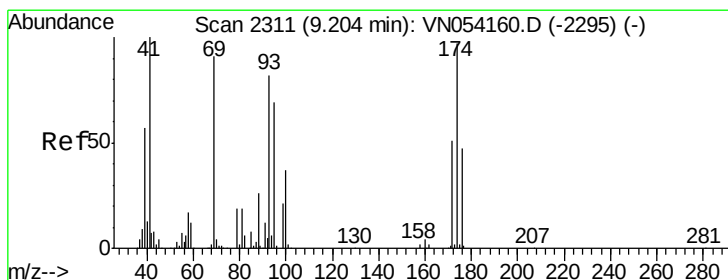
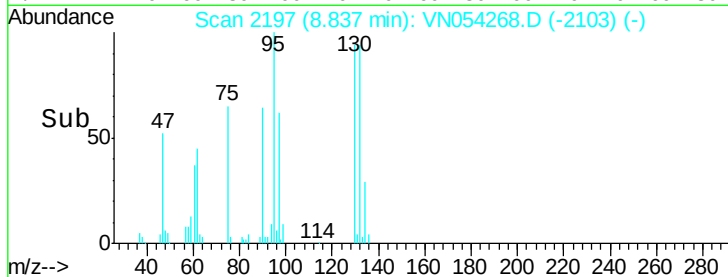
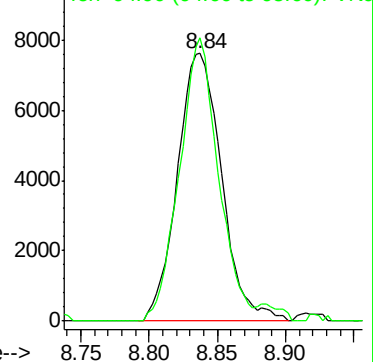
130 100

95 105.8 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO



#49

1,4-Dioxane

Concen: 2821.04 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

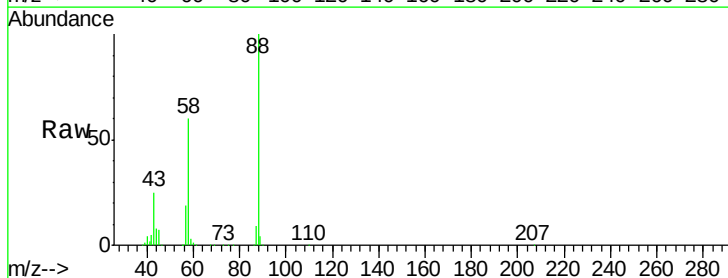
Tgt Ion: 88 Resp: 462081

Ion Ratio Lower Upper

88 100

43 23.6 24.1 36.1#

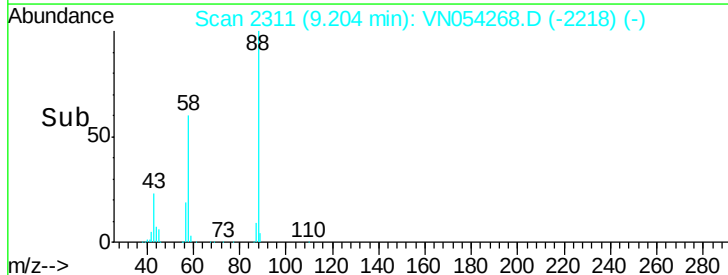
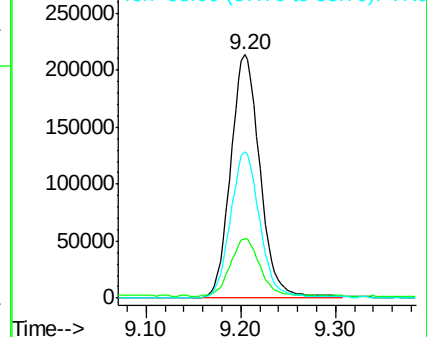
58 59.7 50.8 76.2

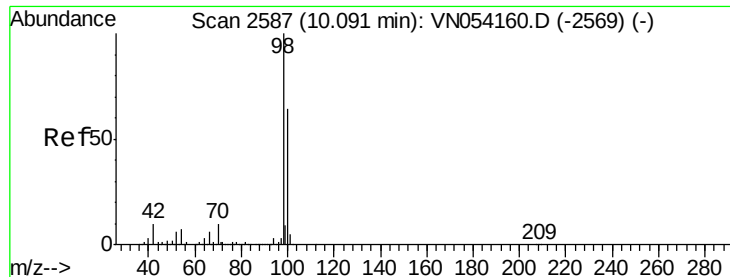


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 51.56 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

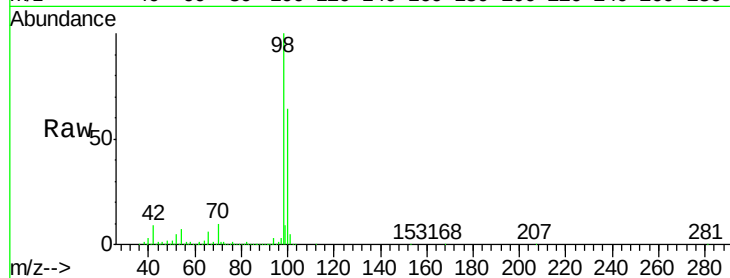
MW-1

Tot Ion: 98 Resp: 3017059

Ion Ratio Lower Upper

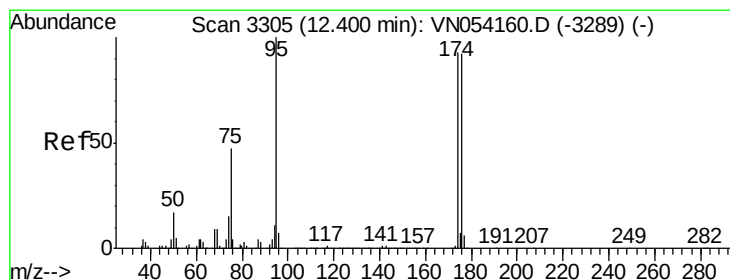
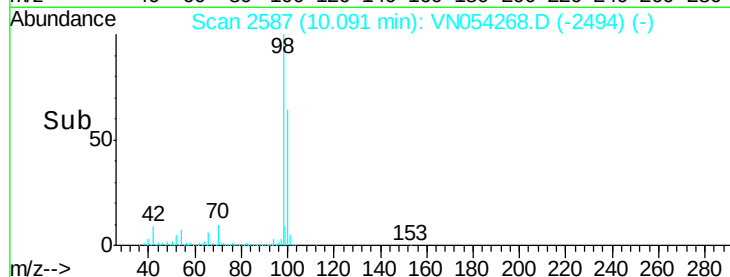
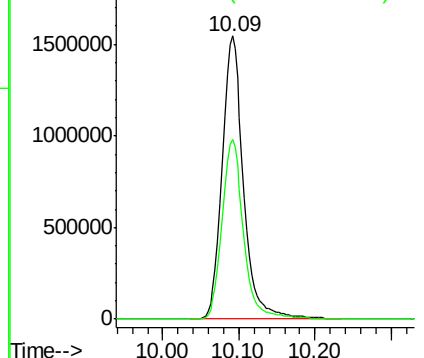
98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 55.64 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

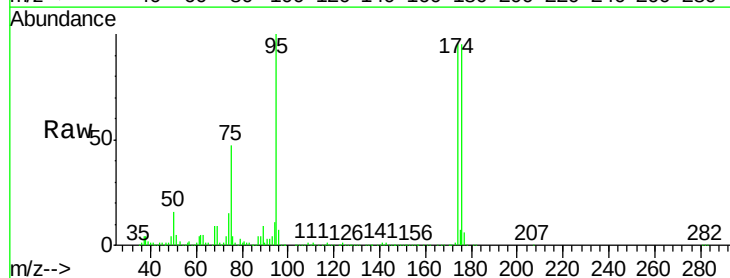
Tgt Ion: 95 Resp: 1139172

Ion Ratio Lower Upper

95 100

174 97.3 0.0 191.0

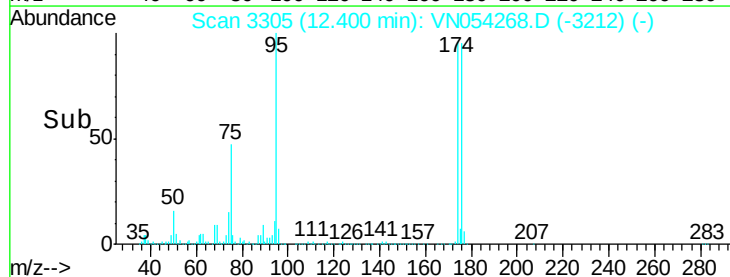
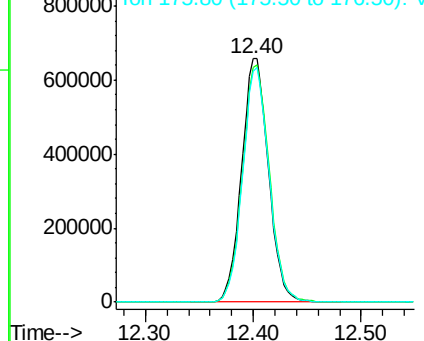
176 95.1 0.0 187.4

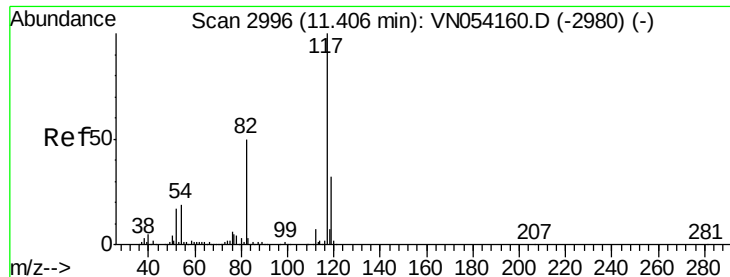


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

MW-1

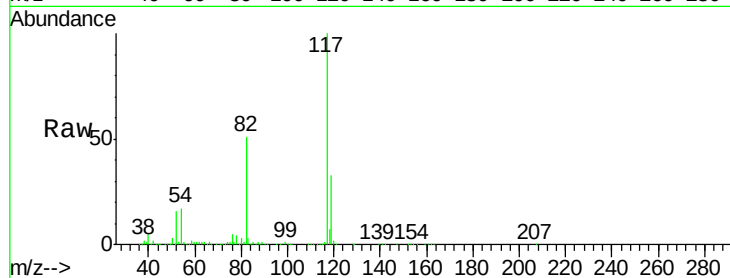
Tot Ion:117 Resp: 2524697

Ion Ratio Lower Upper

117 100

82 50.6 40.0 60.0

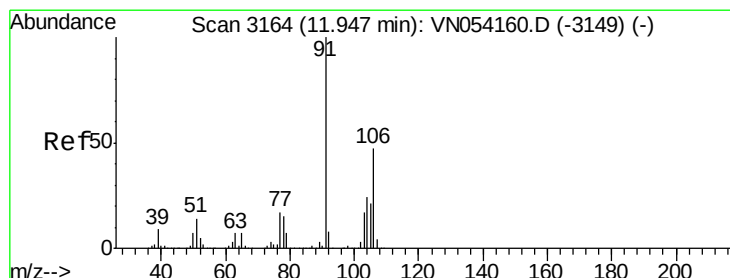
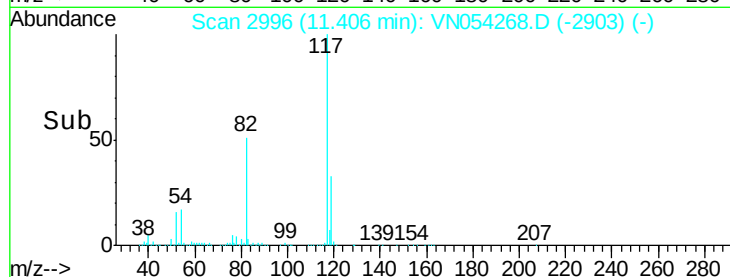
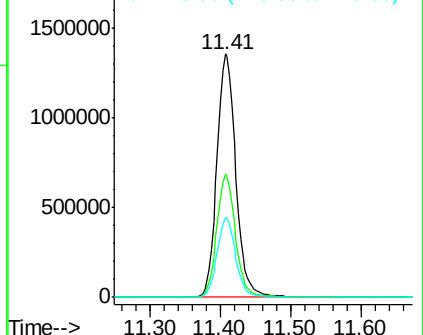
119 32.6 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#69

o-Xylene

Concen: 0.31 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN054268.D

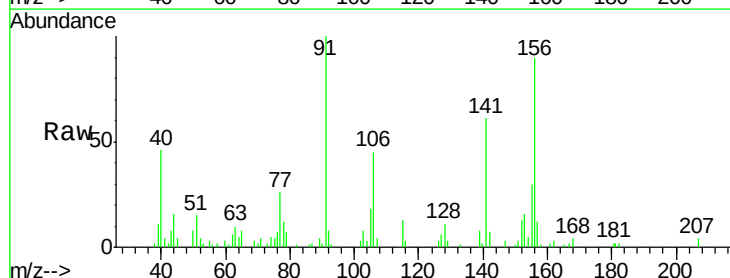
Acq: 14 Mar 2019 18:04

Tgt Ion:106 Resp: 10959

Ion Ratio Lower Upper

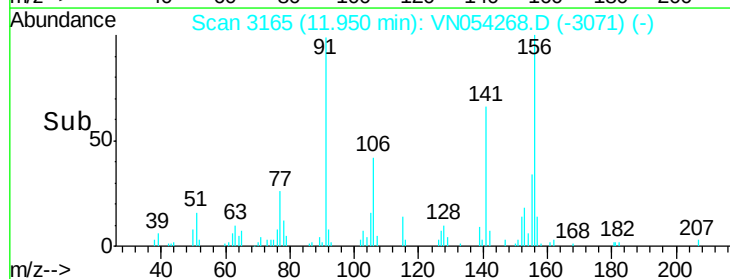
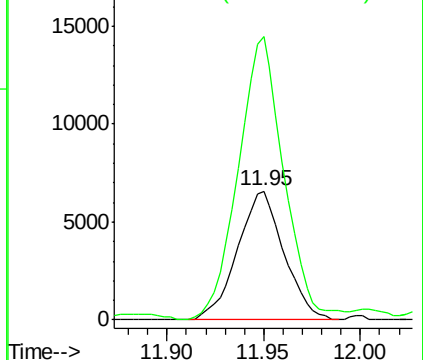
106 100

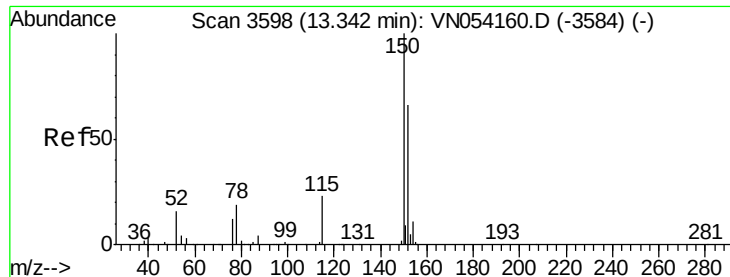
91 216.5 105.7 317.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

MW-1

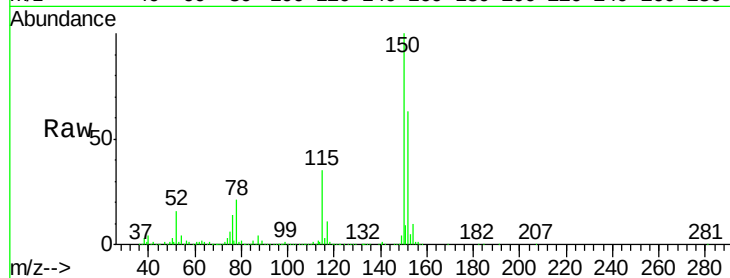
Tot Ion:152 Resp: 1083648

Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.6

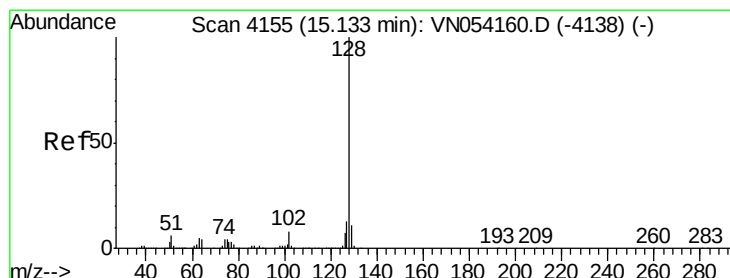
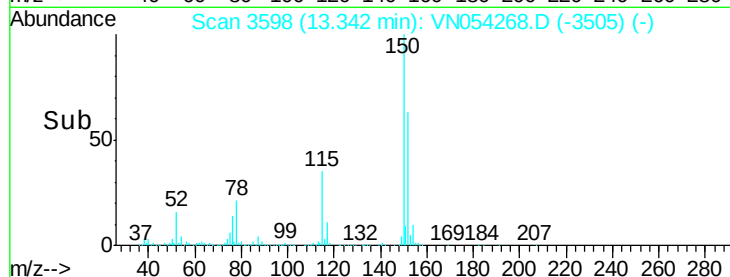
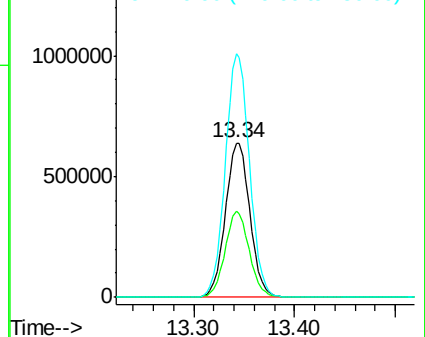
150 155.5 0.0 349.2



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



#95

Naphthalene

Concen: 11.96 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054268.D

Acq: 14 Mar 2019 18:04

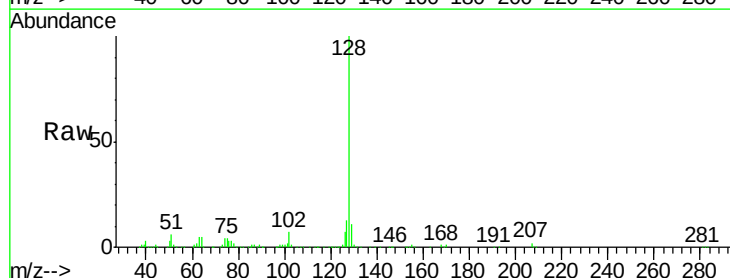
Tgt Ion:128 Resp: 433448

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

