

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN042919\
 Data File : VN055289.D
 Acq On : 29 Apr 2019 13:22
 Operator : JC/SP
 Sample : VN0429WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0429WBL01

Quant Time: Apr 30 04:29:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 04:20:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	376164	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	629125	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	575693	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	143675	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	256736	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
35) Dibromofluoromethane	7.59	113	209198	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
50) Toluene-d8	10.09	98	788720	52.90	ug/l	0.00
Spiked Amount			Recovery	=	105.80%	
62) 4-Bromofluorobenzene	12.40	95	232439	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	

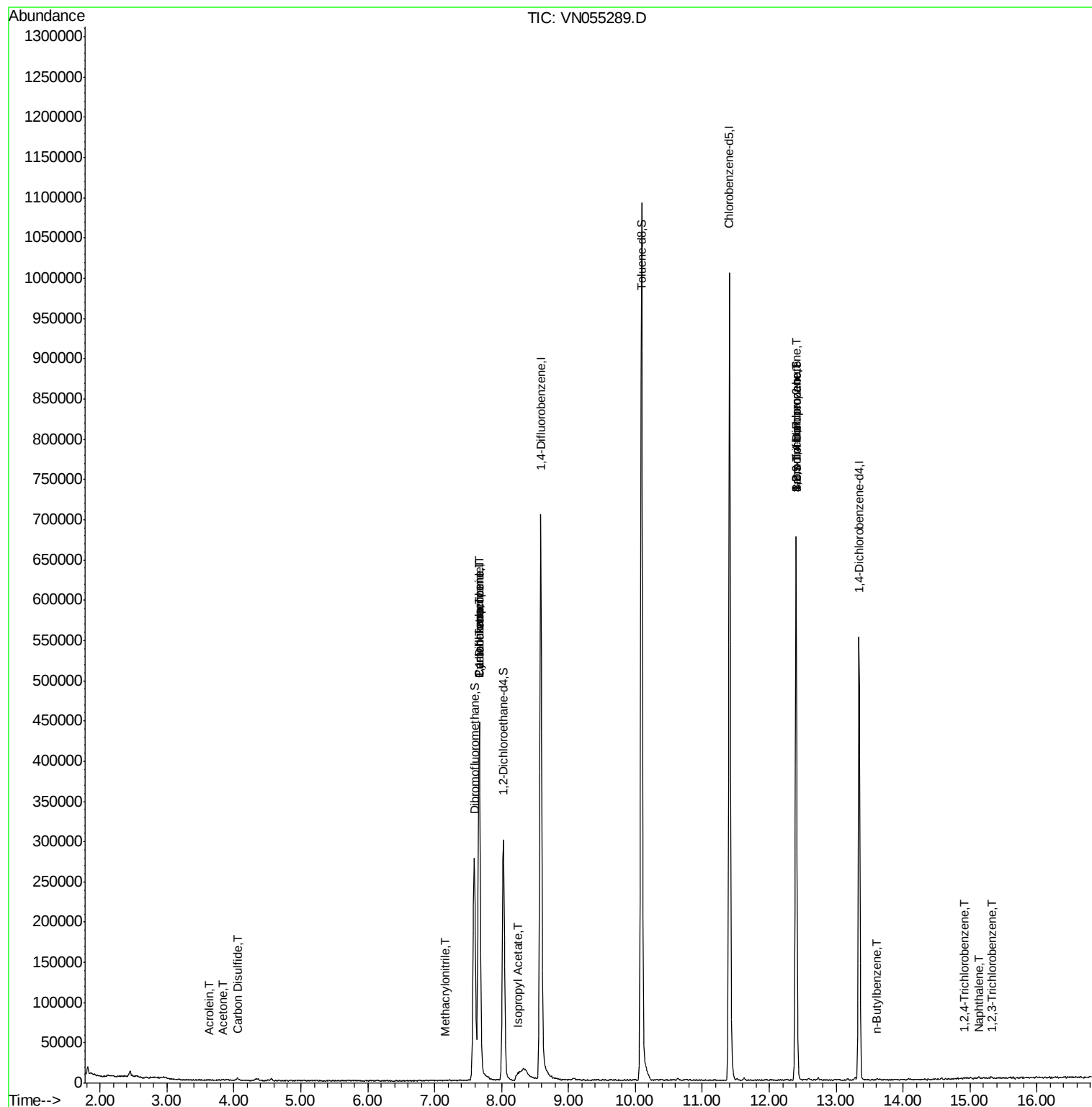
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.63	56	162	0.736	ug/l #	14
16) Acetone	3.83	43	489	0.319	ug/l #	1
17) Carbon Disulfide	4.05	76	5497	0.567	ug/l	98
18) Methyl Acetate	4.33	43	3004	Below Cal	#	85
31) Cyclohexane	7.67	56	8631	1.115	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	29143	4.836	ug/l #	49
38) Carbon Tetrachloride	7.67	117	35177	6.051	ug/l #	17
41) Methacrylonitrile	7.16	41	62	0.764	ug/l #	46
43) Isopropyl Acetate	8.25	43	6123	0.825	ug/l #	56
71) Bromoform	12.40	173	1882	0.770	ug/l #	1
73) Isopropylbenzene	12.25	105	926	Below Cal	#	66
75) 1,1,2,2-Tetrachloroethane	12.39	83	34	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	121612	45.301	ug/l #	100
77) Bromobenzene	12.53	156	98	Below Cal	#	1
79) 2-Chlorotoluene	12.67	91	910	Below Cal		77
81) trans-1,4-Dichloro-2-buten	12.40	75	121612	160.406	ug/l #	7
83) tert-Butylbenzene	12.99	119	764	Below Cal	#	73
89) n-Butylbenzene	13.62	91	1659	0.232	ug/l	83
90) Hexachloroethane	13.87	117	32	Below Cal	#	7
93) 1,2,4-Trichlorobenzene	14.90	180	316	3.468	ug/l #	43
94) Hexachlorobutadiene	15.00	225	454	Below Cal		84
95) Naphthalene	15.13	128	1477	3.674	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.32	180	618	2.929	ug/l	74

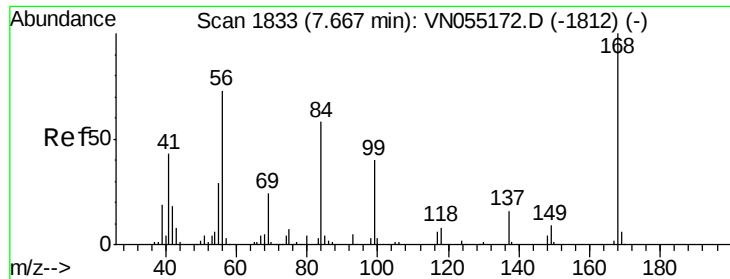
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN042919\
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Misc : 5.00mL/MSVOA_N/WATER
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ClientSampleId :
VN0429WBL01

Quant Time: Apr 30 04:29:30 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 04:20:38 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: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

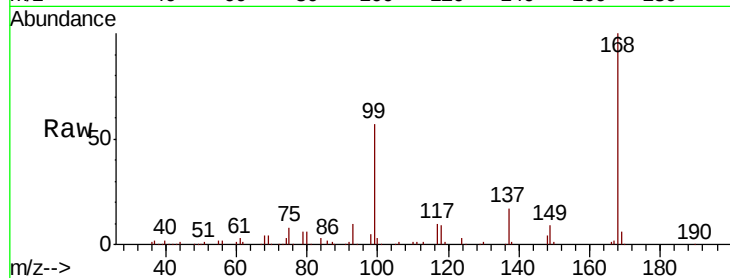
VN0429WBL01

Tgt Ion:168 Resp: 376164

Ion Ratio Lower Upper

168 100

99 56.9 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN055172.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055172.D (-1812) (-)

7.67

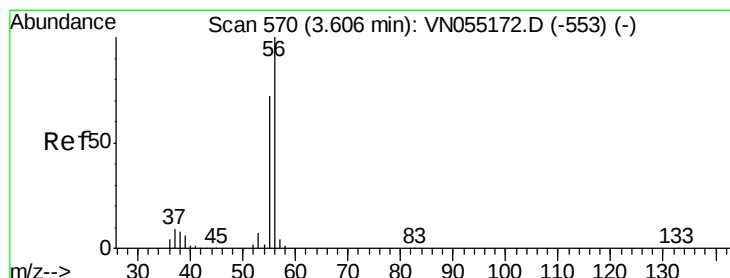
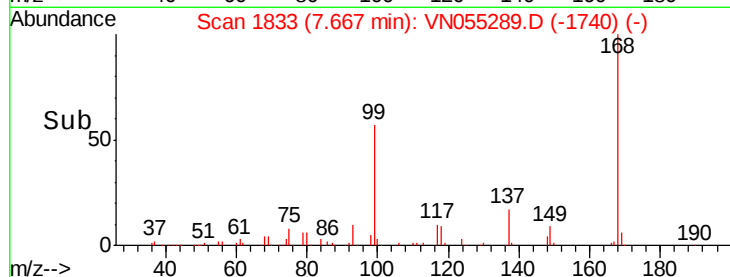
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.736 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.01 min

Lab File: VN055289.D

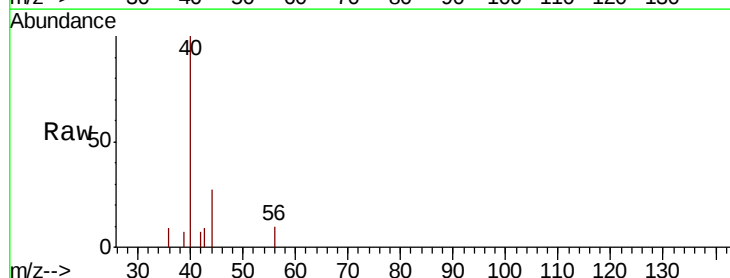
Acq: 29 Apr 2019 13:22

Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VN055172.D (-553) (-)

Ion 55.00 (54.70 to 55.70): VN055172.D (-553) (-)

3.63

300

250

200

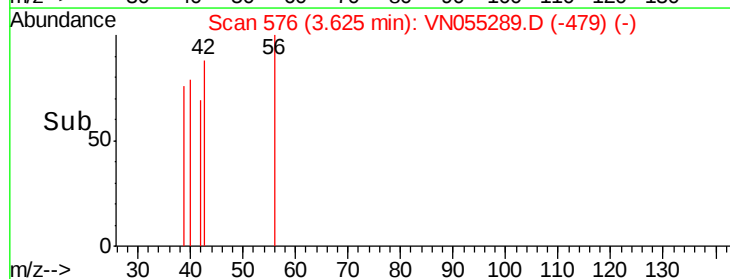
150

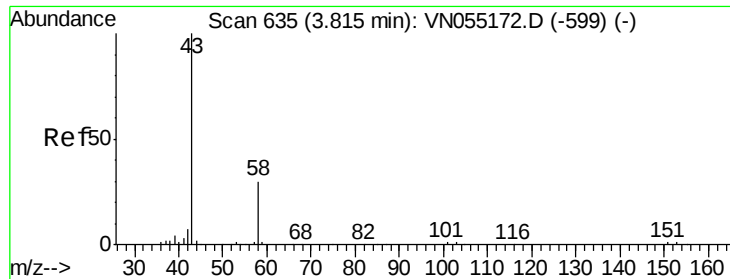
100

50

0

Time-->





#16

Acetone

Concen: 0.319 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

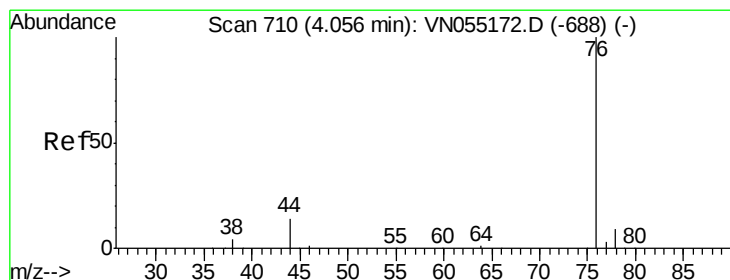
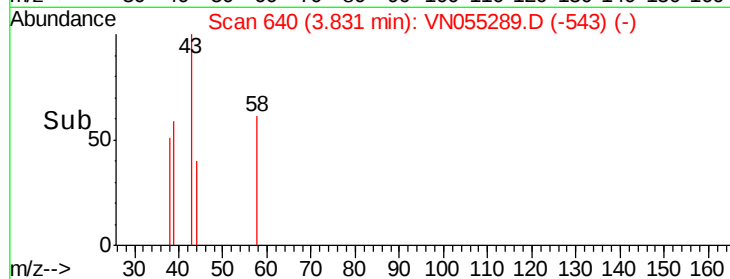
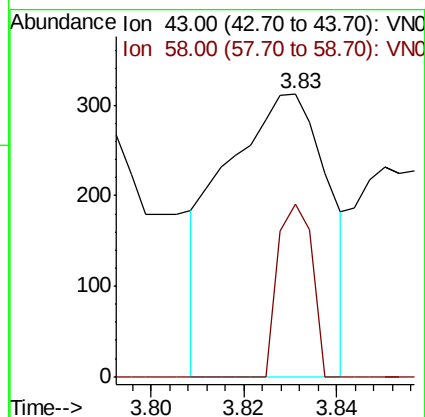
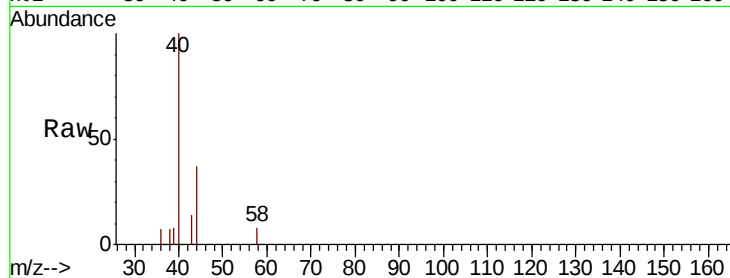
VN0429WBL01

Tgt Ion: 43 Resp: 489

Ion Ratio Lower Upper

43 100

58 145.0 23.6 35.4#



#17

Carbon Disulfide

Concen: 0.567 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN055289.D

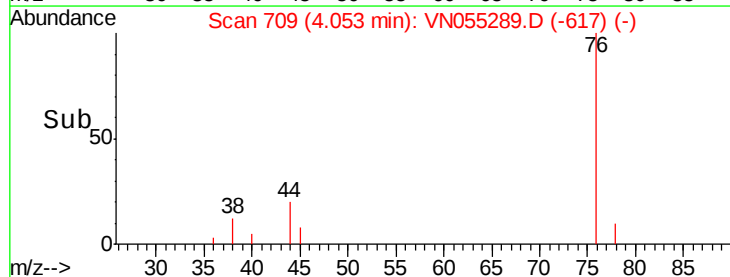
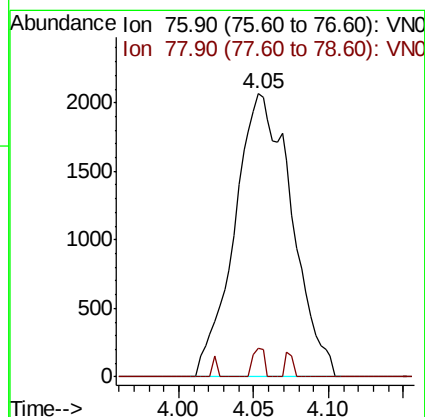
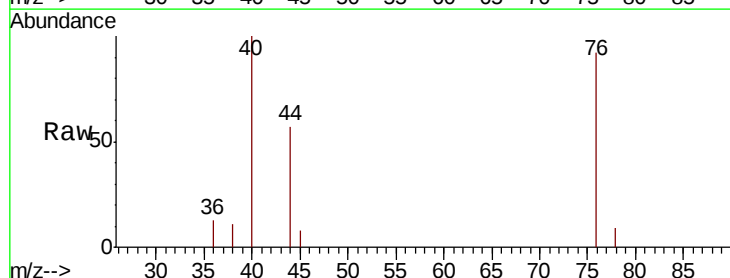
Acq: 29 Apr 2019 13:22

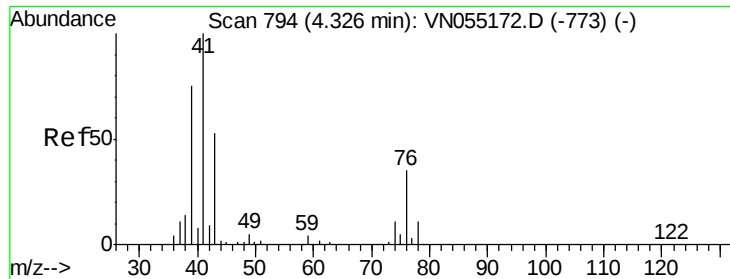
Tgt Ion: 76 Resp: 5497

Ion Ratio Lower Upper

76 100

78 10.2 7.6 11.4

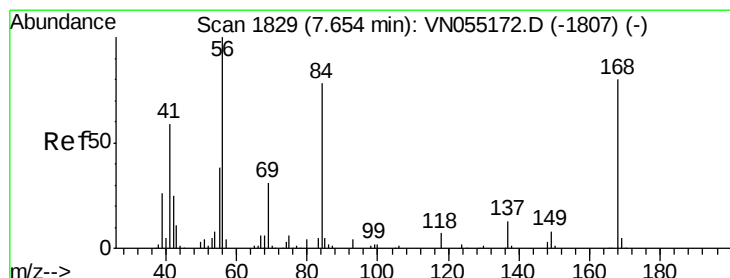
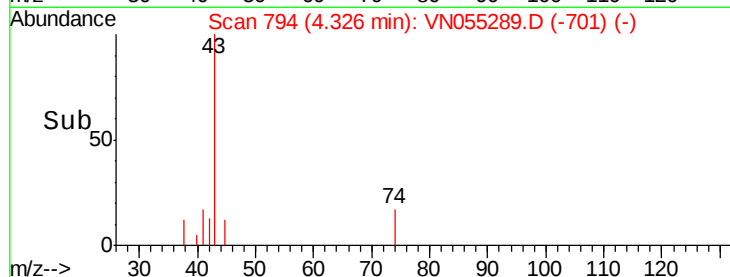
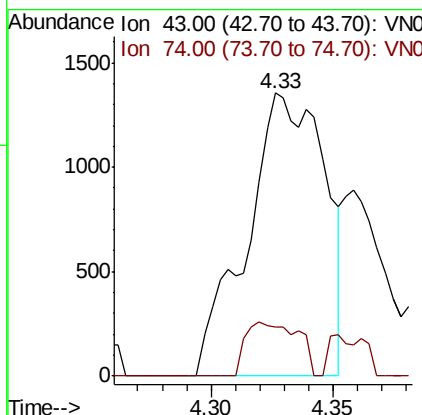
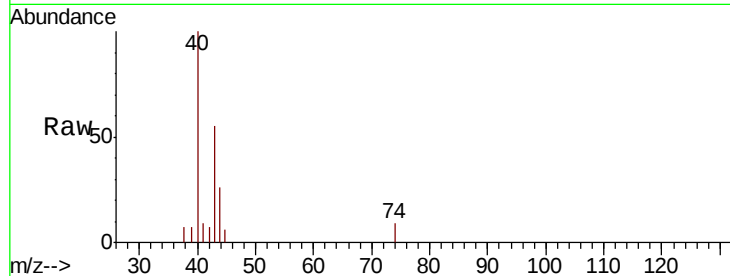




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

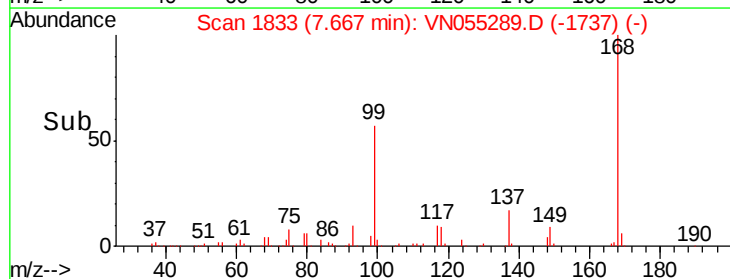
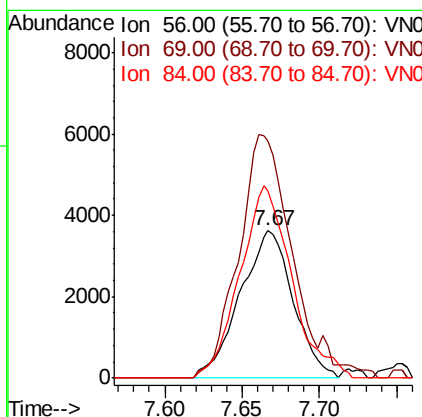
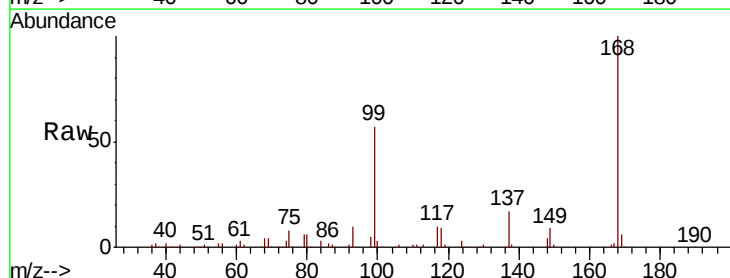
Instrument :
MSVOA_N
ClientSampled :
VN0429WBL01

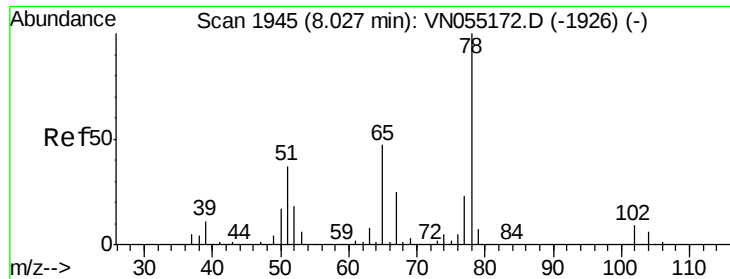
Tgt Ion: 43 Resp: 3004
Ion Ratio Lower Upper
43 100
74 12.8 15.8 23.8#



#31
Cyclohexane
Concen: 1.115 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

Tgt Ion: 56 Resp: 8631
Ion Ratio Lower Upper
56 100
69 160.7 25.2 37.8#
84 127.1 61.1 91.7#

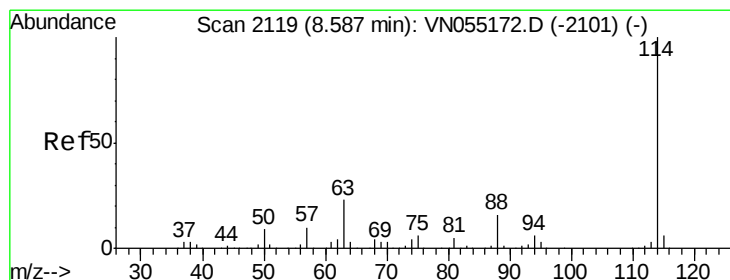
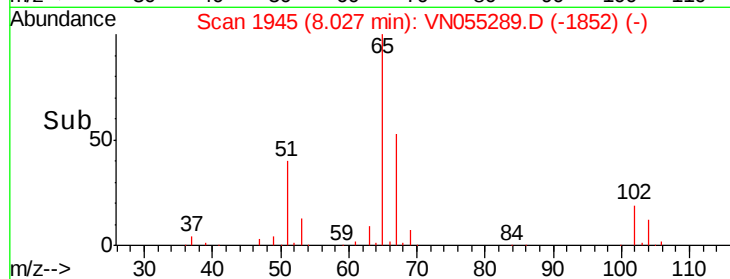
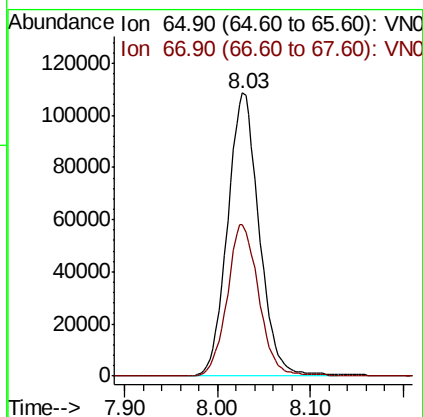
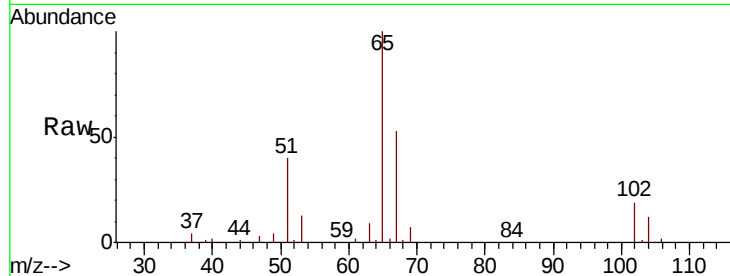




#33
 1,2-Dichloroethane-d4
 Concen: 52.171 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055289.D
 Acq: 29 Apr 2019 13:22

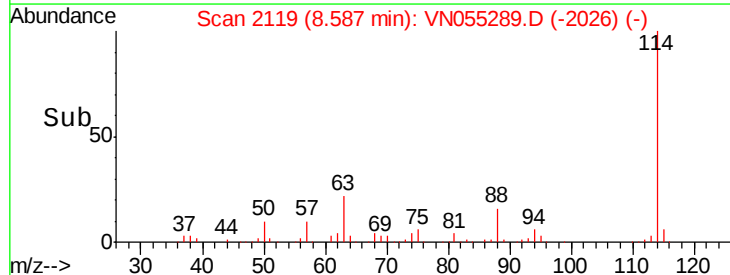
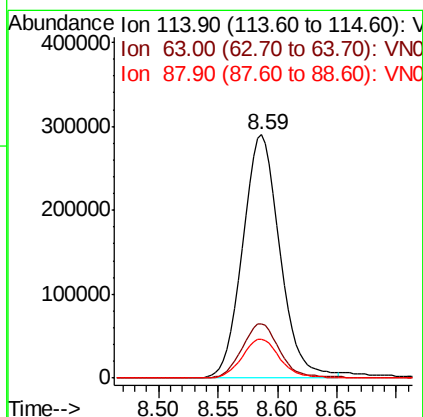
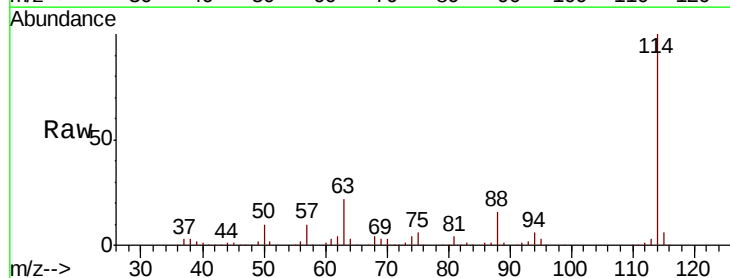
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0429WBL01

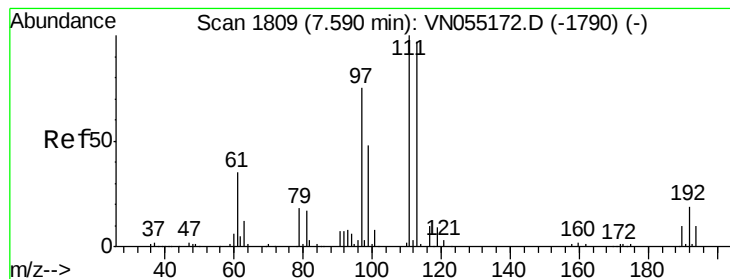
Tgt Ion: 65 Resp: 256736
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055289.D
 Acq: 29 Apr 2019 13:22

Tgt Ion: 114 Resp: 629125
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.2
 88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.661 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

VN0429WBL01

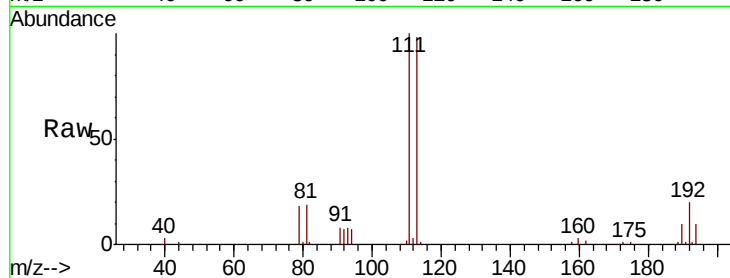
Tgt Ion:113 Resp: 209198

Ion Ratio Lower Upper

113 100

111 102.7 82.3 123.5

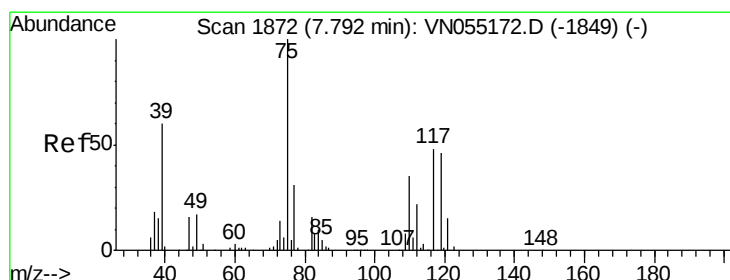
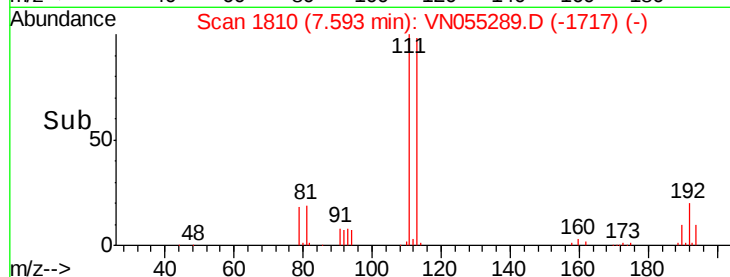
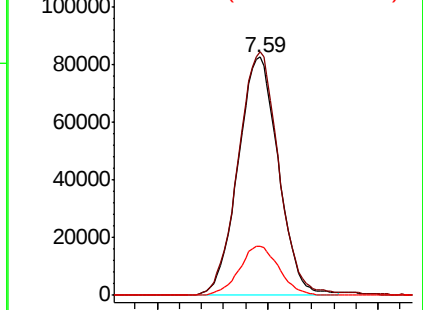
192 20.3 17.0 25.6



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: 4.836 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

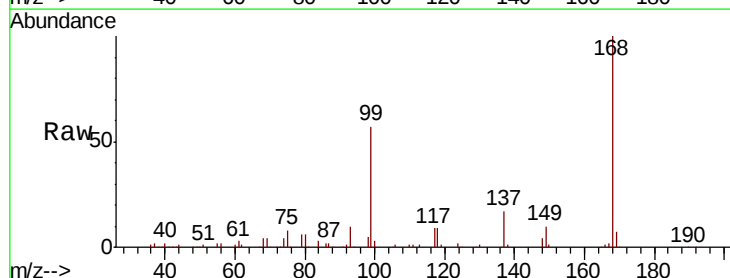
Tgt Ion: 75 Resp: 29143

Ion Ratio Lower Upper

75 100

110 7.9 16.8 50.4#

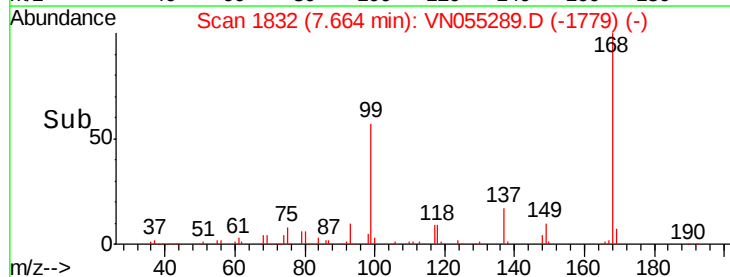
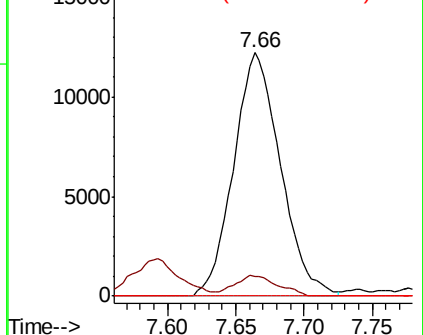
77 0.0 25.0 37.6#

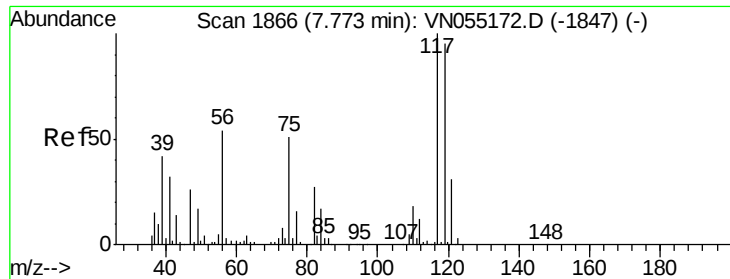


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.051 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

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VN0429WBL01

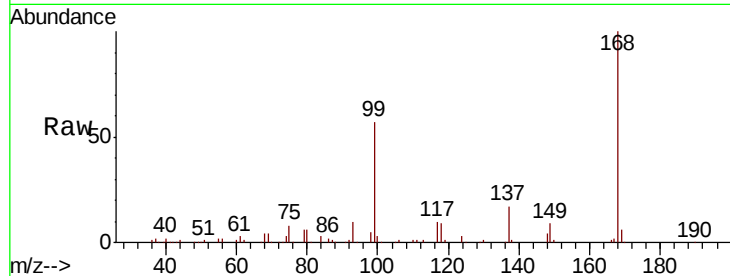
Tgt Ion:117 Resp: 35177

Ion Ratio Lower Upper

117 100

119 6.2 77.0 115.6#

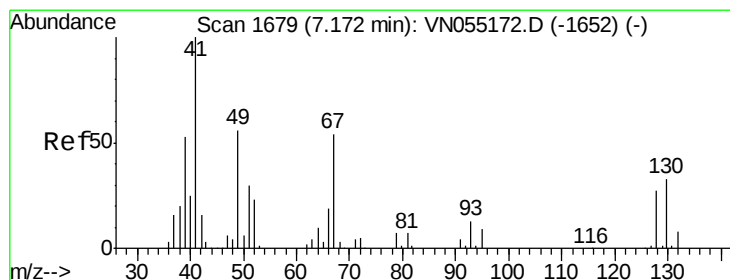
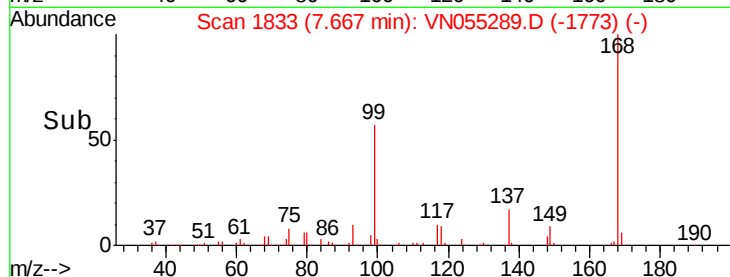
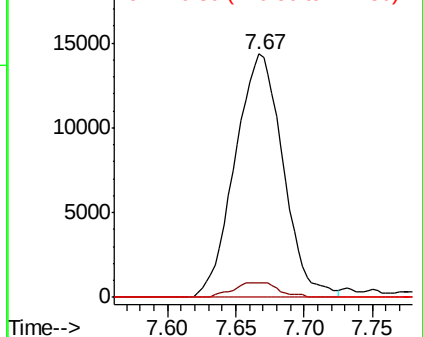
121 0.0 23.8 35.8#



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: 0.764 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. -0.02 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Tgt Ion: 41 Resp: 62

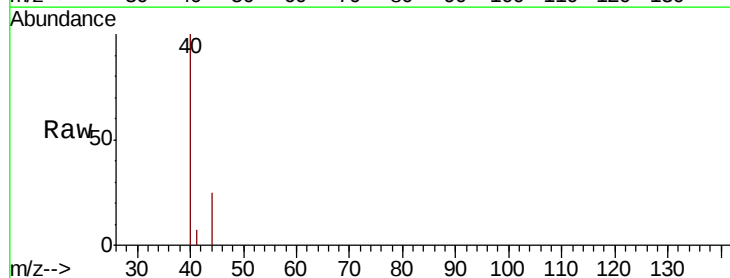
Ion Ratio Lower Upper

41 100

39 46.8 48.5 72.7#

67 0.0 54.9 82.3#

52 0.0 24.9 37.3#

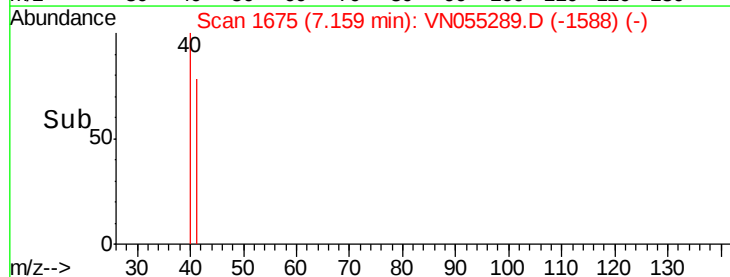
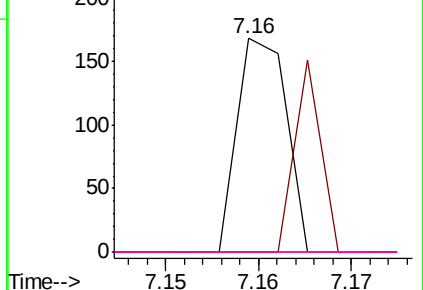


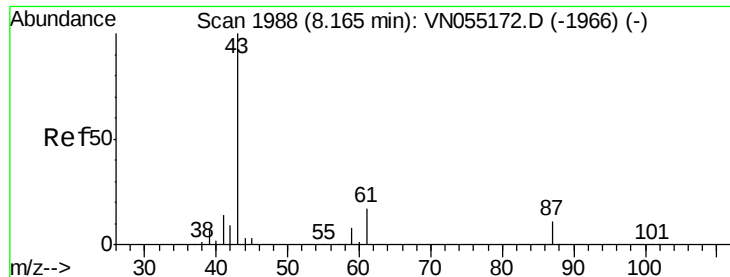
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.825 ug/l

RT: 8.25 min Scan# 2013

Delta R.T. 0.08 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

VN0429WBL01

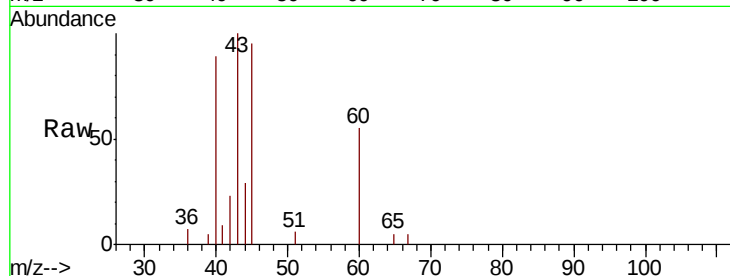
Tgt Ion: 43 Resp: 6123

Ion Ratio Lower Upper

43 100

61 0.0 20.8 31.2#

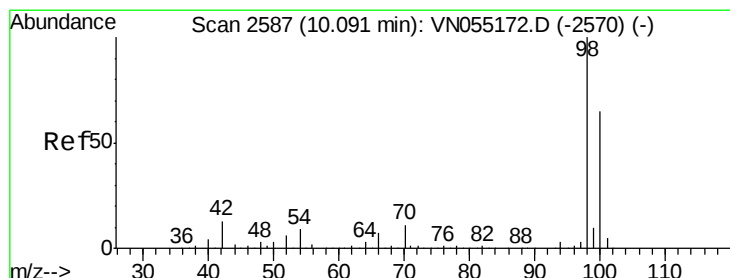
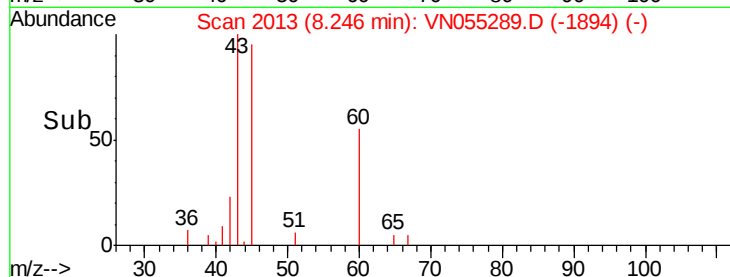
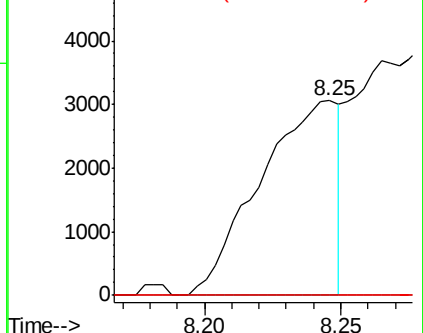
87 0.0 8.5 12.7#



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



#50

Toluene-d8

Concen: 52.896 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055289.D

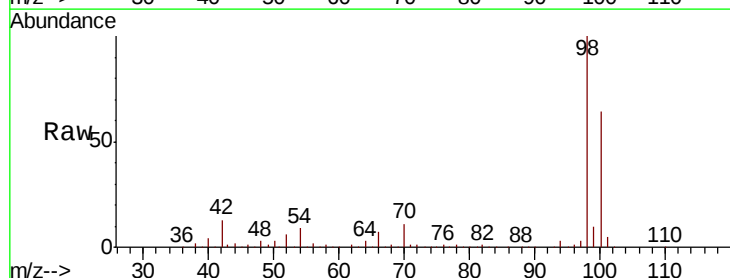
Acq: 29 Apr 2019 13:22

Tgt Ion: 98 Resp: 788720

Ion Ratio Lower Upper

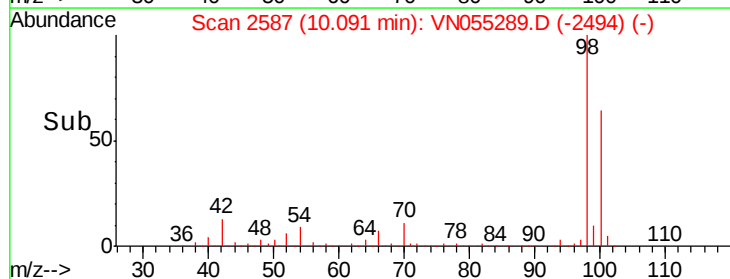
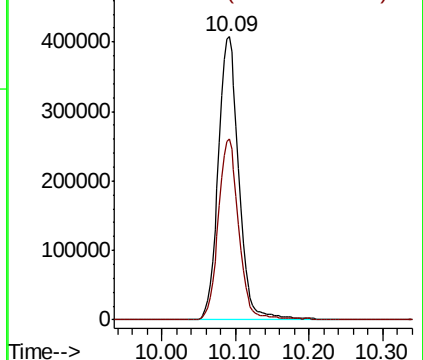
98 100

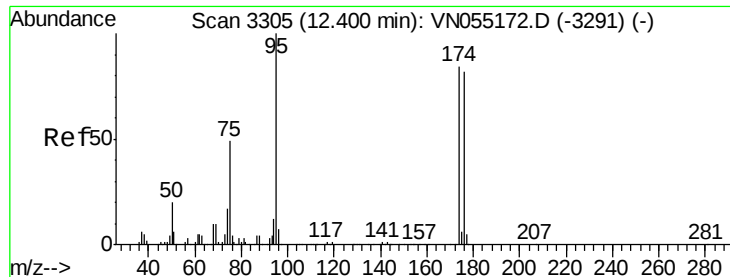
100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 49.878 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

VN0429WBL01

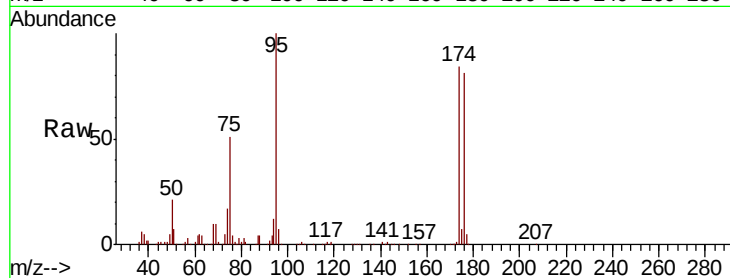
Tgt Ion: 95 Resp: 232439

Ion Ratio Lower Upper

95 100

174 84.7 0.0 166.6

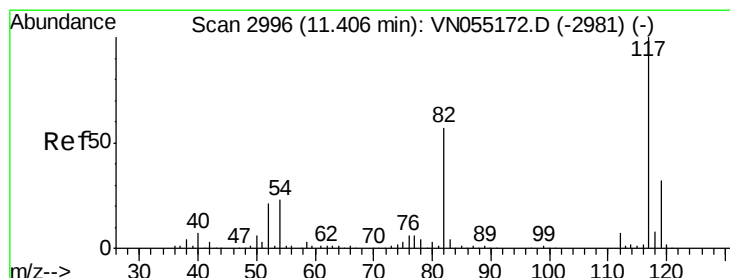
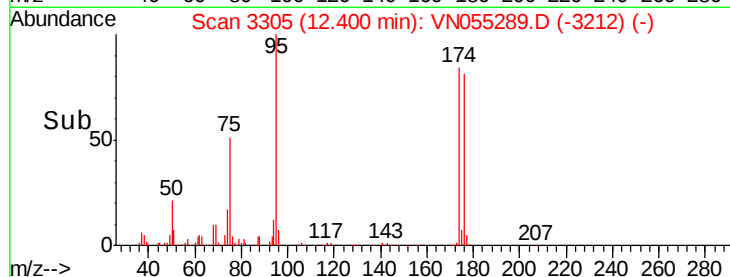
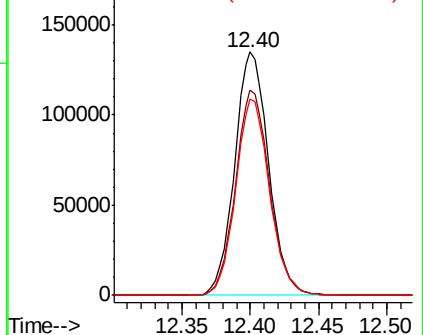
176 80.7 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN055289.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN055289.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN055289.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

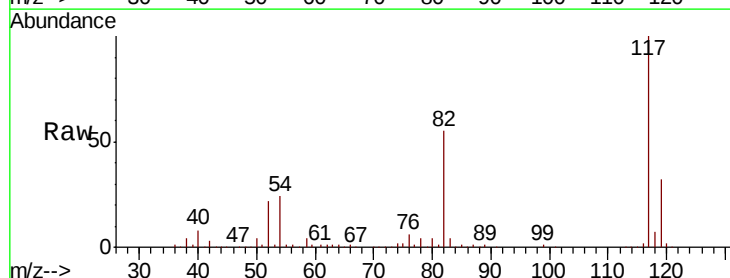
Tgt Ion: 117 Resp: 575693

Ion Ratio Lower Upper

117 100

82 55.4 46.2 69.4

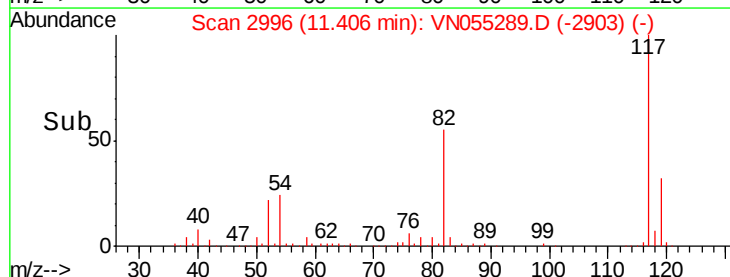
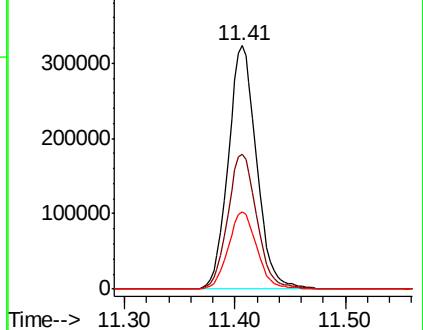
119 31.7 26.6 40.0

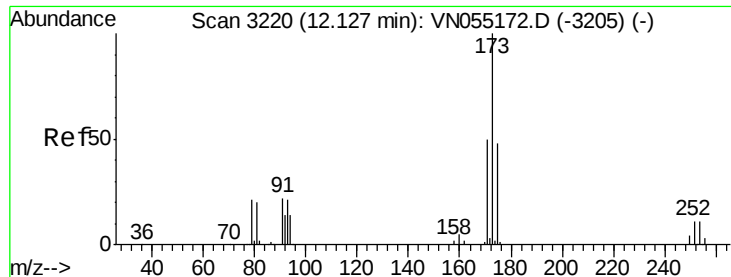


Abundance Ion 116.90 (116.60 to 117.60): VN055289.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055289.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055289.D (-2903) (-)

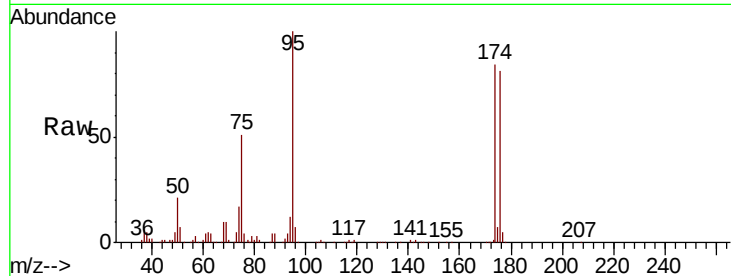




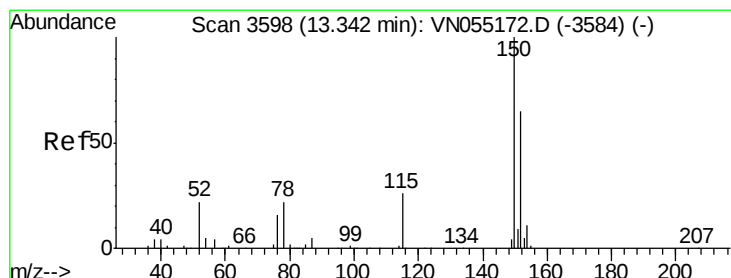
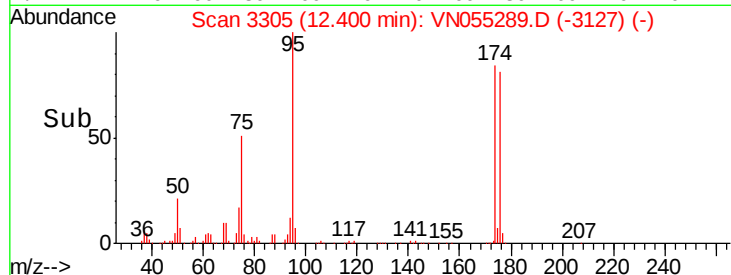
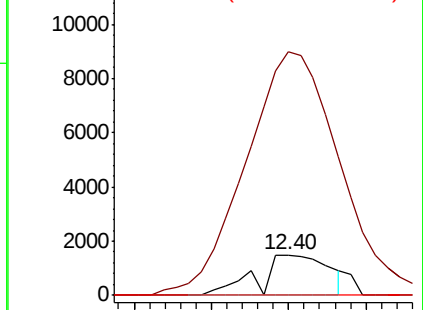
#71
Bromoform
Concen: 0.770 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

Instrument :
MSVOA_N
ClientSampled :
VN0429WBL01

Tgt Ion:173 Resp: 1882
Ion Ratio Lower Upper
173 100
175 706.6 23.6 71.0#
254 0.0 0.0 0.0

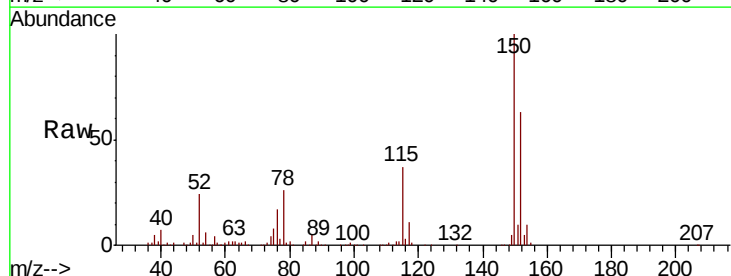


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

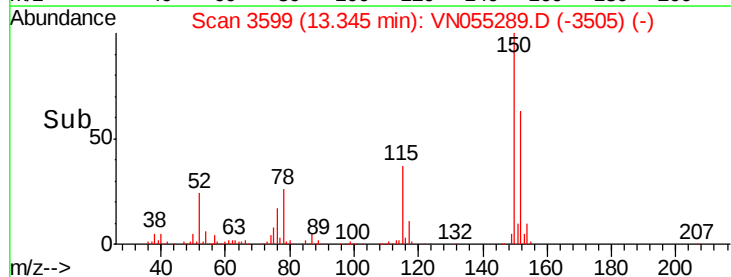
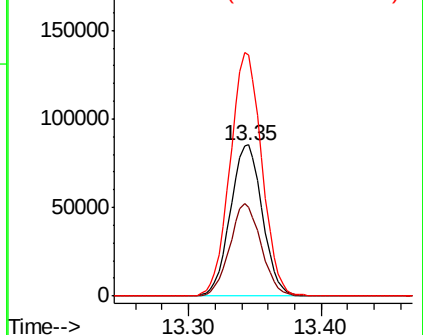


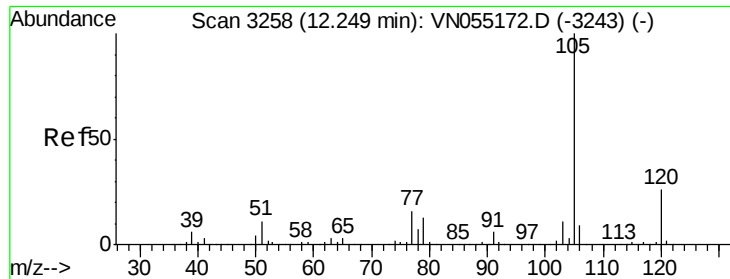
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

Tgt Ion:152 Resp: 143675
Ion Ratio Lower Upper
152 100
115 59.6 29.0 87.0
150 158.8 0.0 345.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

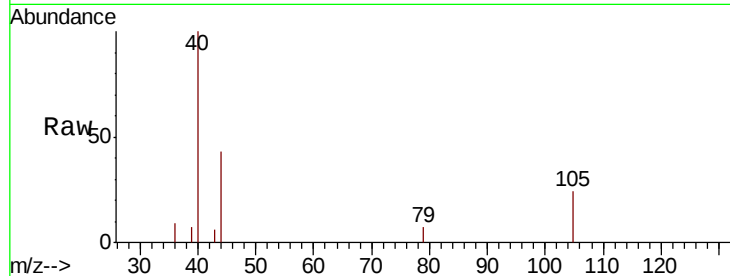
VN0429WBL01

Tgt Ion: 105 Resp: 926

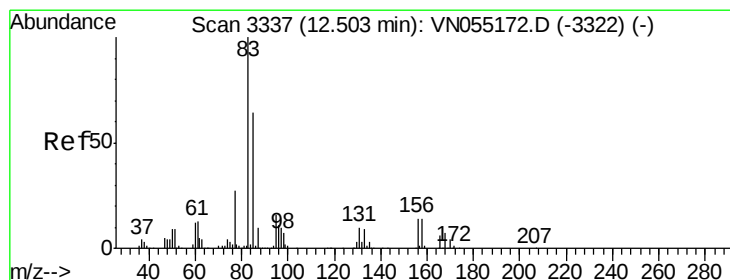
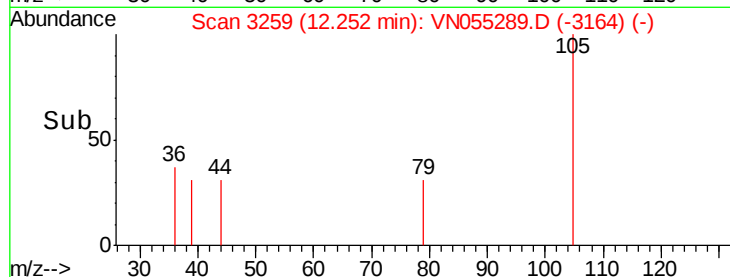
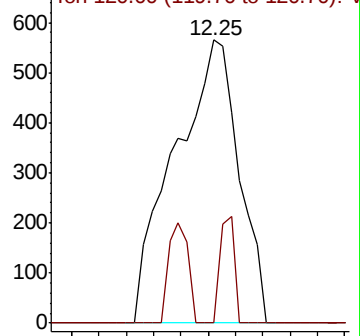
Ion Ratio Lower Upper

105 100

120 8.6 12.9 38.7#



Abundance Ion 105.00 (104.70 to 105.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. -0.11 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

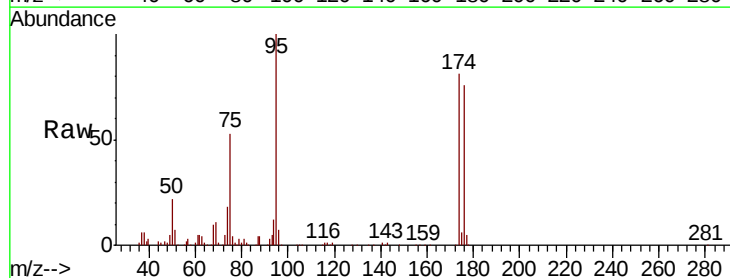
Tgt Ion: 83 Resp: 34

Ion Ratio Lower Upper

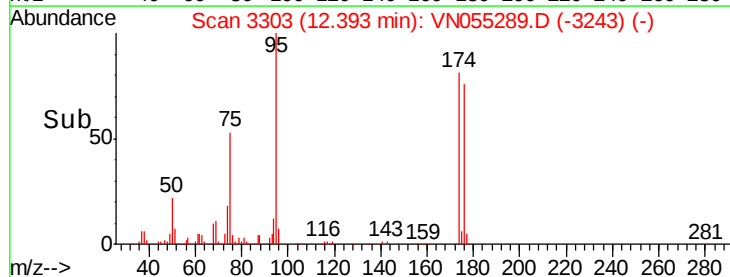
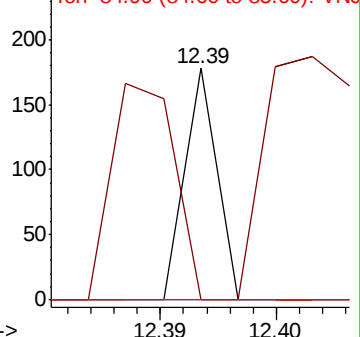
83 100

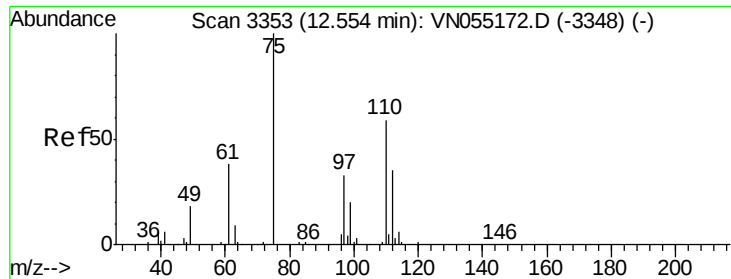
131 182.4 5.1 15.2#

85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): V





#76

1,2,3-Trichloropropane

Concen: 45.301 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

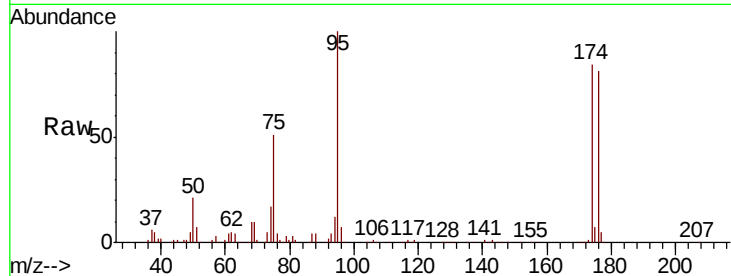
VN0429WBL01

Tgt Ion: 75 Resp: 121612

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

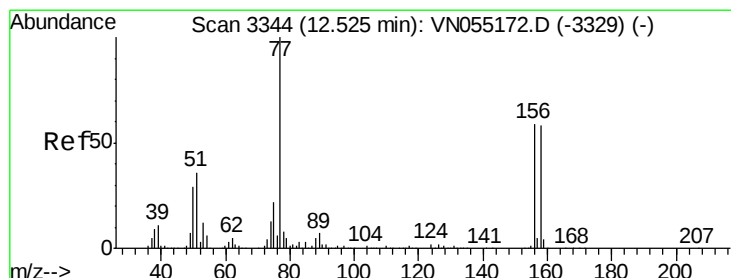
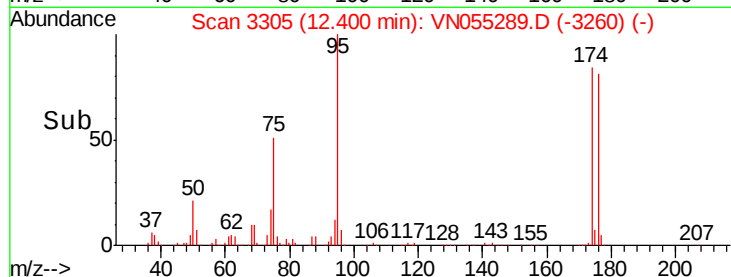
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

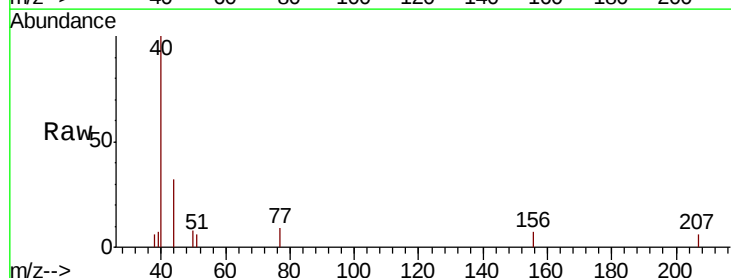
Tgt Ion: 156 Resp: 98

Ion Ratio Lower Upper

156 100

77 446.9 99.6 298.8#

158 0.0 49.3 147.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

400

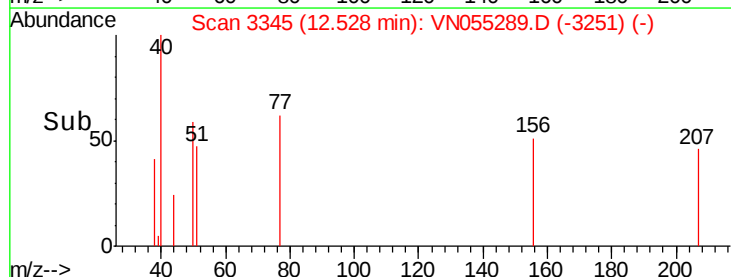
300

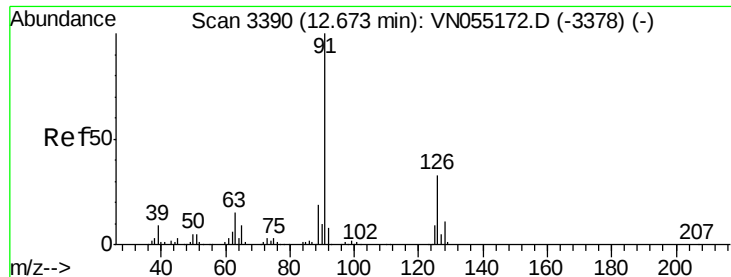
200

100

0

Time--> 12.51 12.52 12.53 12.54





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

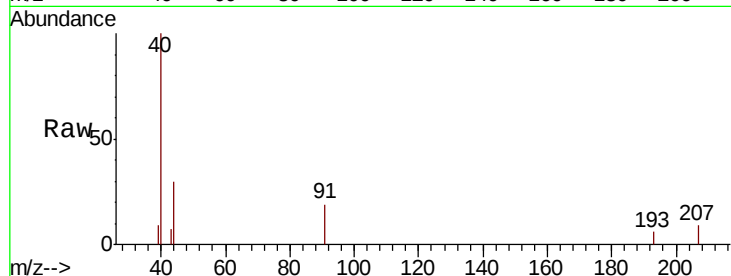
VN0429WBL01

Tgt Ion: 91 Resp: 910

Ion Ratio Lower Upper

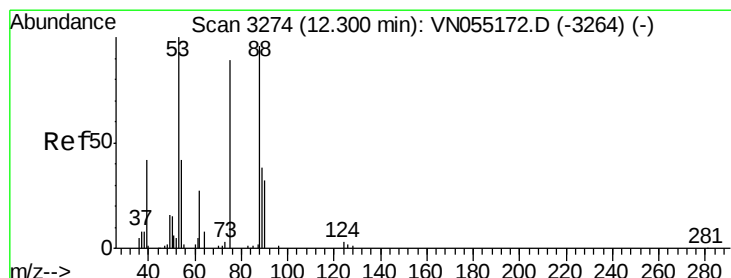
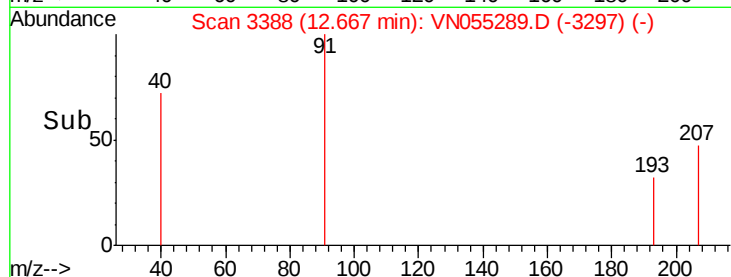
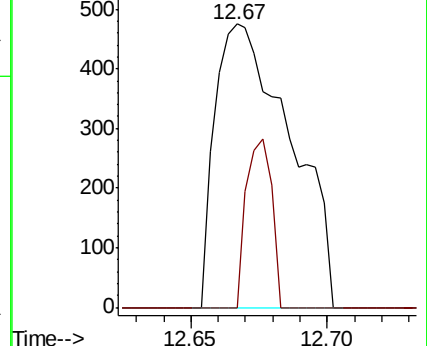
91 100

126 20.1 16.6 49.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 160.406 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

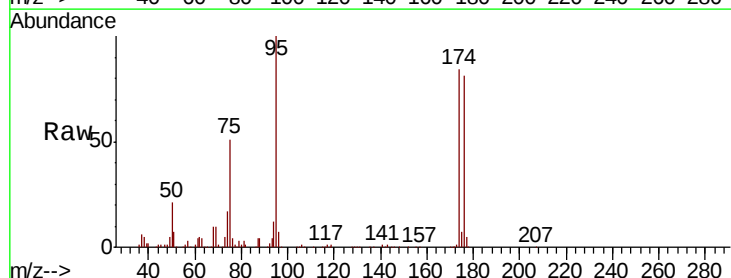
Tgt Ion: 75 Resp: 121612

Ion Ratio Lower Upper

75 100

53 0.1 86.3 129.5#

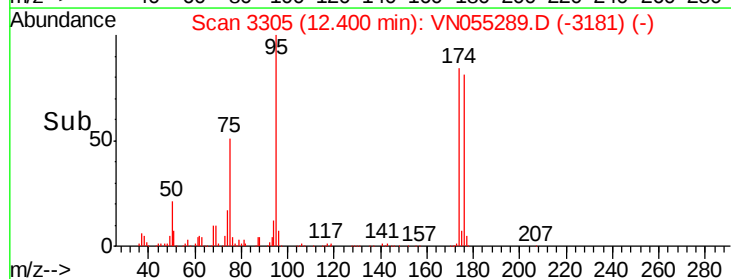
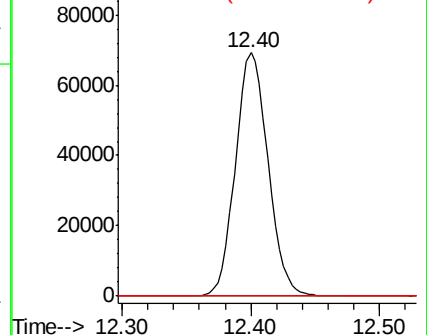
89 0.0 34.6 51.8#

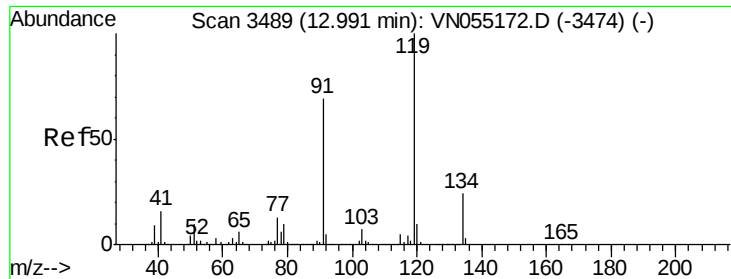


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

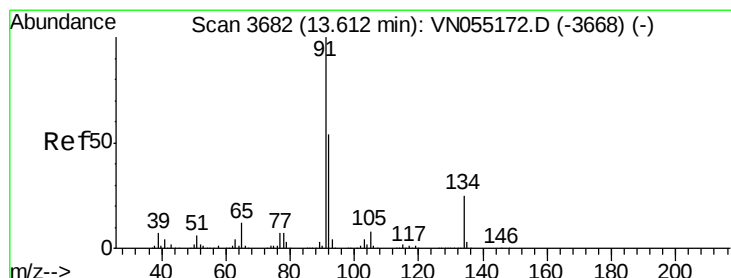
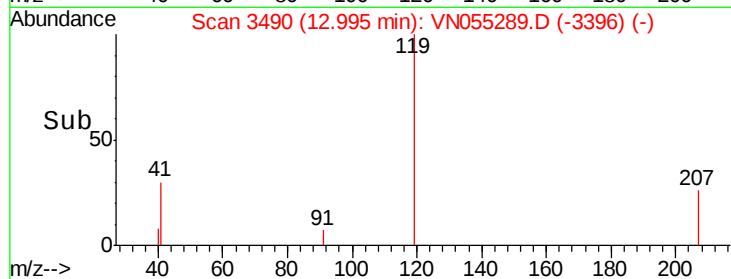
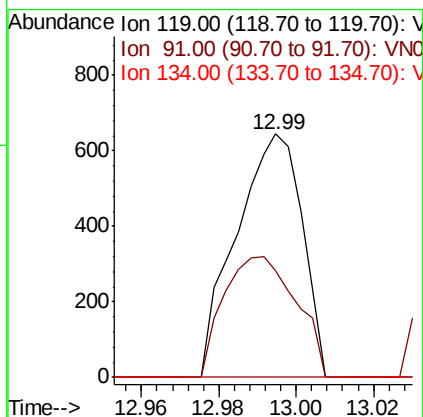
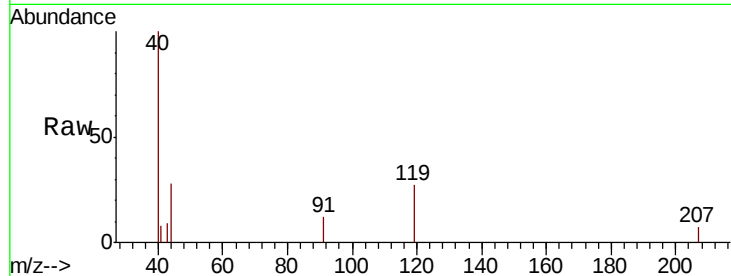




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

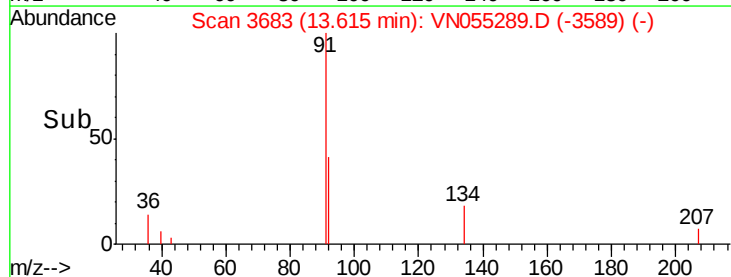
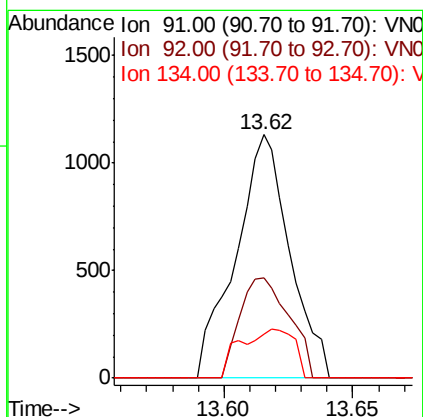
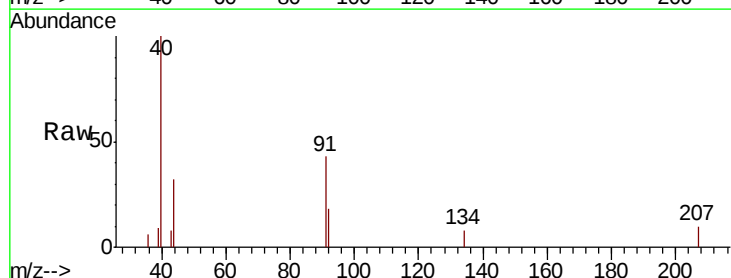
Instrument :
MSVOA_N
ClientSampleId :
VN0429WBL01

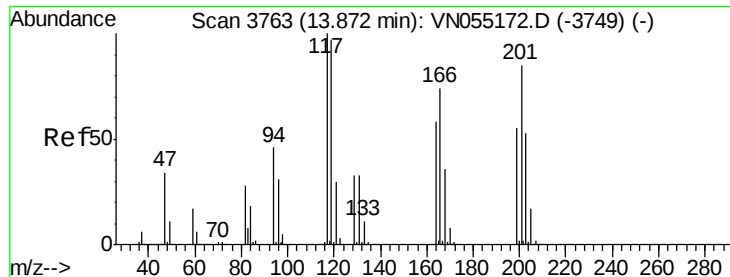
Tgt Ion: 119 Resp: 764
Ion Ratio Lower Upper
119 100
91 54.6 34.3 102.9
134 0.0 13.1 39.3#



#89
n-Butylbenzene
Concen: 0.232 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

Tgt Ion: 91 Resp: 1659
Ion Ratio Lower Upper
91 100
92 37.7 26.1 78.3
134 19.9 12.4 37.4





#90

Hexachloroethane

Concen: Below Cal

RT: 13.87 min Scan# 3761

Delta R.T. -0.01 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

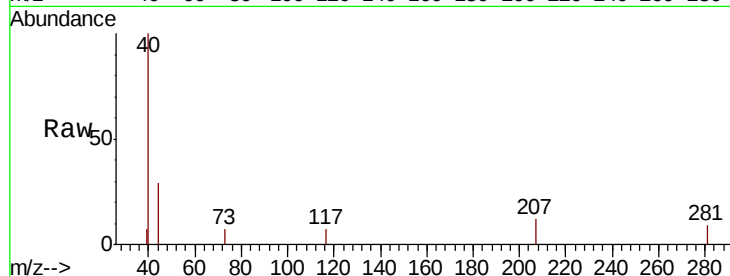
VN0429WBL01

Tgt Ion:117 Resp: 32

Ion Ratio Lower Upper

117 100

201 0.0 41.9 125.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.87

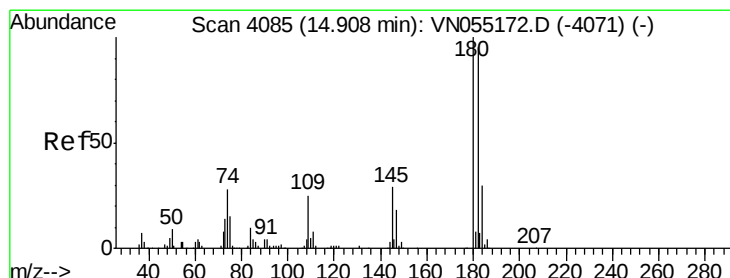
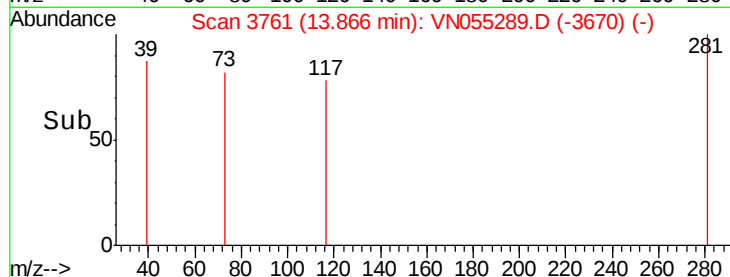
150

100

50

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.468 ug/l

RT: 14.90 min Scan# 4083

Delta R.T. -0.01 min

Lab File: VN055289.D

Acq: 29 Apr 2019 13:22

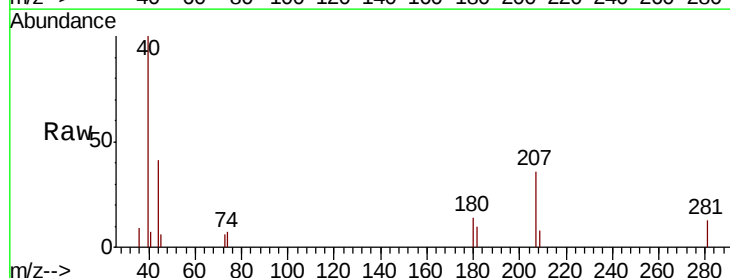
Tgt Ion:180 Resp: 316

Ion Ratio Lower Upper

180 100

182 165.8 48.3 144.9#

145 23.1 14.2 42.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

500

400

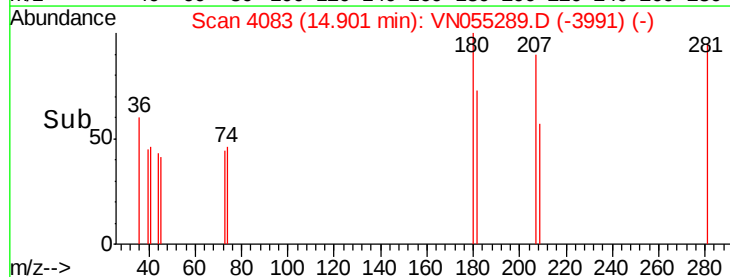
300

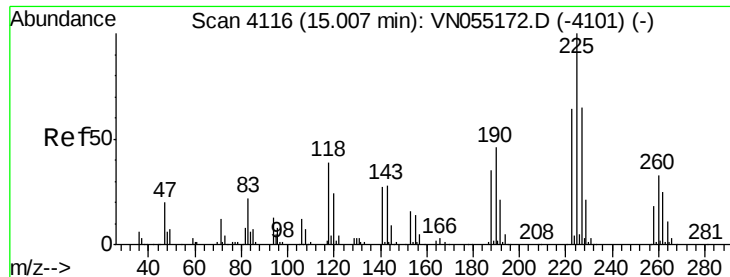
200

100

0

Time-->

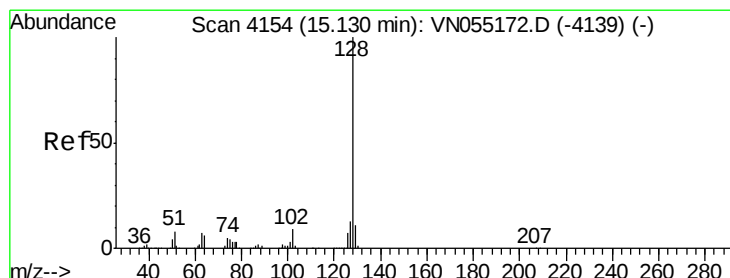
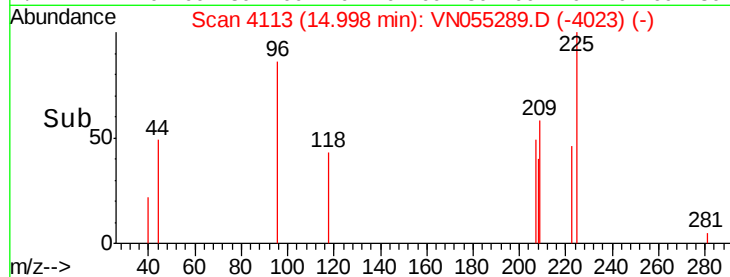
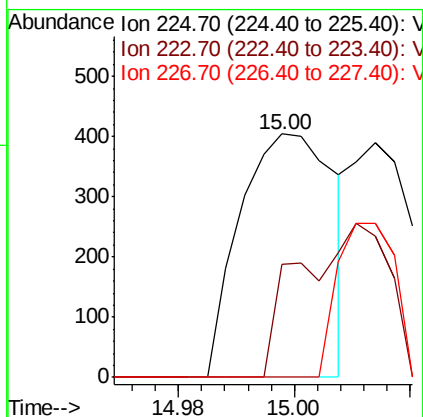
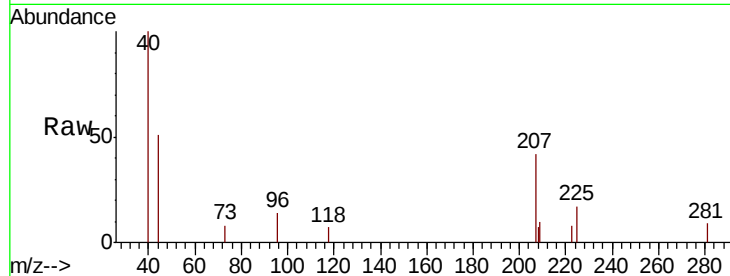




#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.00 min Scan# 4113
Delta R.T. -0.01 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

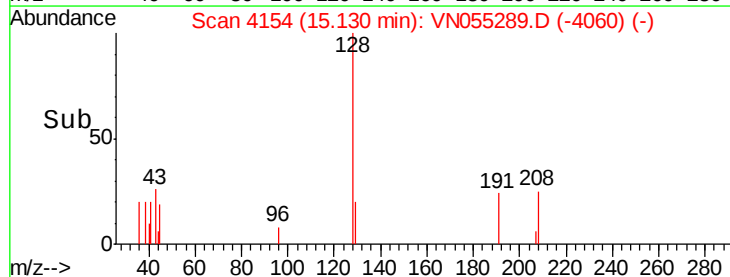
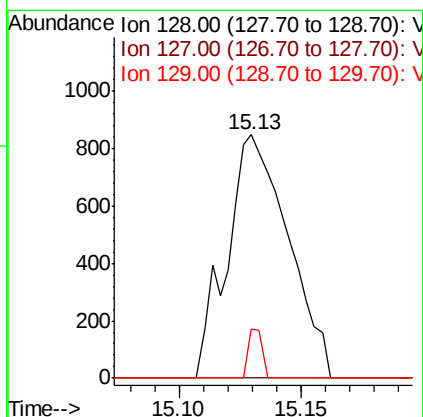
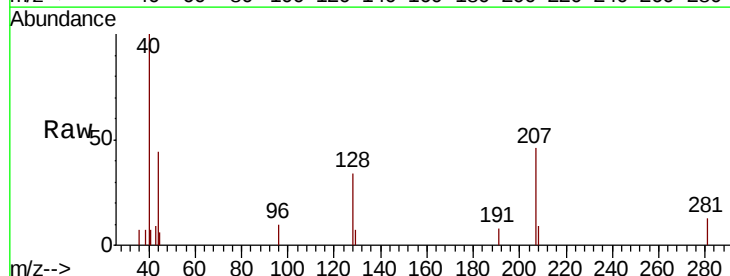
Instrument :
MSVOA_N
ClientSampleId :
VN0429WBL01

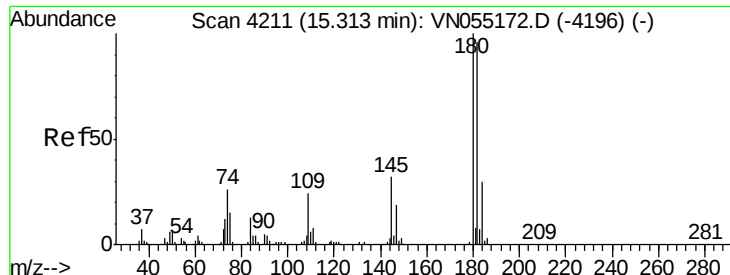
Tgt Ion: 225 Resp: 454
Ion Ratio Lower Upper
225 100
223 59.5 30.3 90.8
227 38.5 30.9 92.7



#95
Naphthalene
Concen: 3.674 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055289.D
Acq: 29 Apr 2019 13:22

Tgt Ion: 128 Resp: 1477
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 4.4 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.929 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN055289.D
 Acq: 29 Apr 2019 13:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0429WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	123.6	48.3	144.9
145	41.3	15.2	45.6

