

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051601.D
 Acq On : 27 Sep 2018 23:00
 Operator : MD\SY
 Sample : J5097-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Sep 28 01:55:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	620771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1033222	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	872623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	338828	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	457670	58.85	ug/l	0.00
Spiked Amount			Recovery	=	117.70%	
35) Dibromofluoromethane	7.59	113	401117	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	10.09	98	1450614	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
62) 4-Bromofluorobenzene	12.40	95	399129	39.66	ug/l	0.00
Spiked Amount			Recovery	=	79.32%	

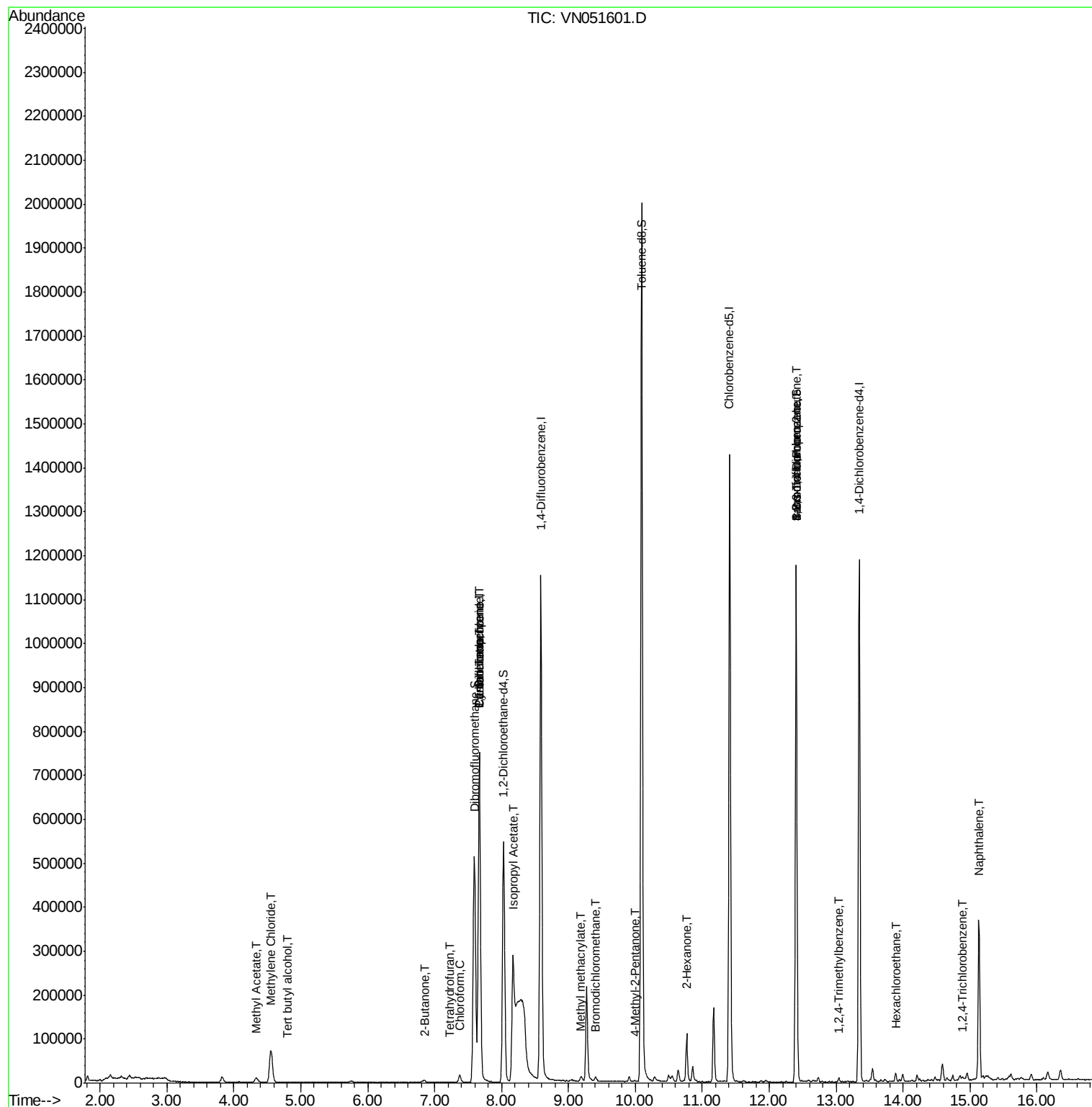
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	106	0.242	ug/l #	78
16) Acetone	3.82	43	20722	Below Cal		94
18) Methyl Acetate	4.33	43	19186	3.240	ug/l	99
20) Methylene Chloride	4.56	84	55836	7.256	ug/l	96
25) 2-Butanone	6.85	43	5057	1.900	ug/l	91
29) Tetrahydrofuran	7.22	42	1121	0.665	ug/l #	53
30) Chloroform	7.38	83	18038	1.362	ug/l	98
31) Cyclohexane	7.67	56	12950	1.058	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46503	3.887	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56802	4.539	ug/l #	17
43) Isopropyl Acetate	8.17	43	376990	30.305	ug/l #	87
47) Bromodichloromethane	9.40	83	5213	0.437	ug/l	97
48) Methyl methacrylate	9.18	41	6779	1.093	ug/l #	21
51) 4-Methyl-2-Pentanone	9.98	43	2218	0.324	ug/l #	79
59) 2-Hexanone	10.77	43	17143	3.865	ug/l #	55
71) Bromoform	12.40	173	2580	0.446	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	195733	34.798	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	195733	107.003	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	5265	0.224	ug/l	92
90) Hexachloroethane	13.89	117	1605	0.332	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.90	180	147	6.001	ug/l #	1
95) Naphthalene	15.13	128	314228	28.974	ug/l	99

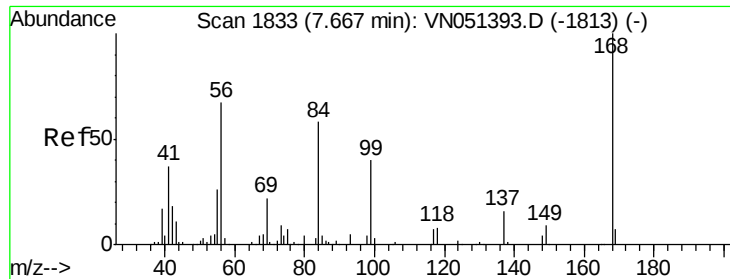
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

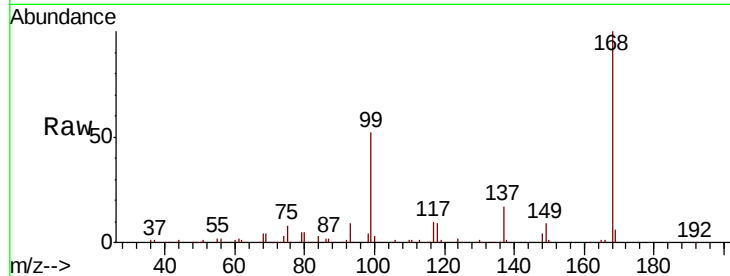
Instrument :
MSVOA_N
ClientSampled :
TP-3

Tot Ion:168 Resp: 620771

Ion Ratio Lower Upper

168 100

99 52.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

250000

200000

150000

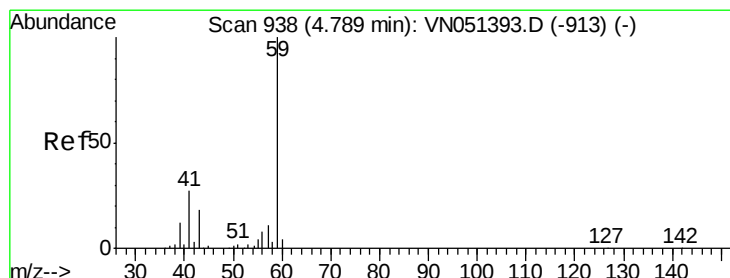
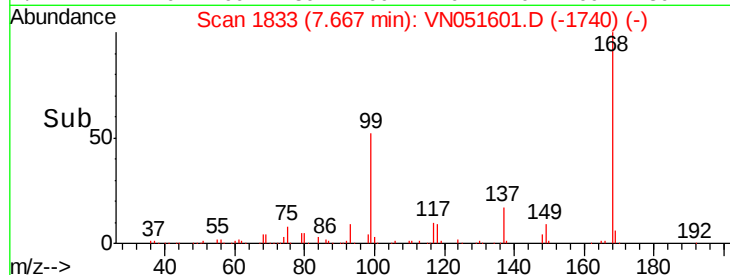
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.242 ug/l

RT: 4.80 min Scan# 940

Delta R.T. 0.01 min

Lab File: VN051601.D

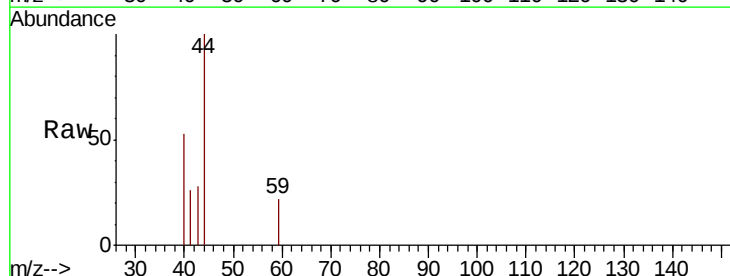
Acq: 27 Sep 2018 23:00

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.80

200

150

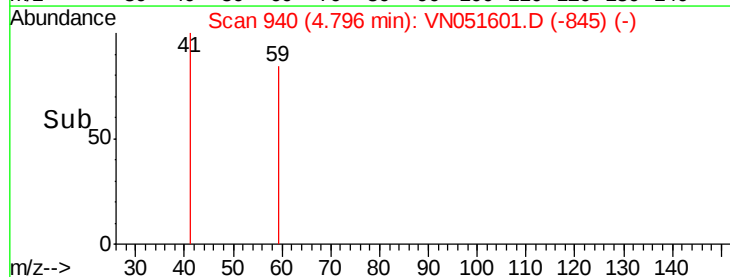
100

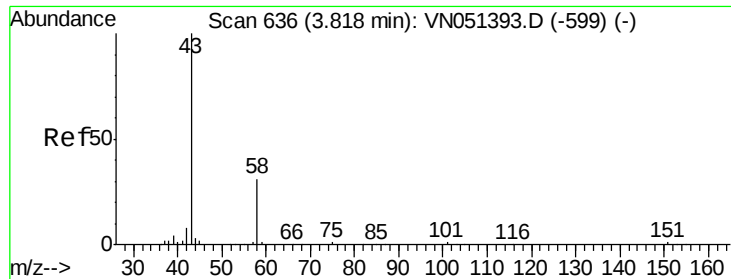
50

0

4.78 4.79 4.80 4.81

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampled :

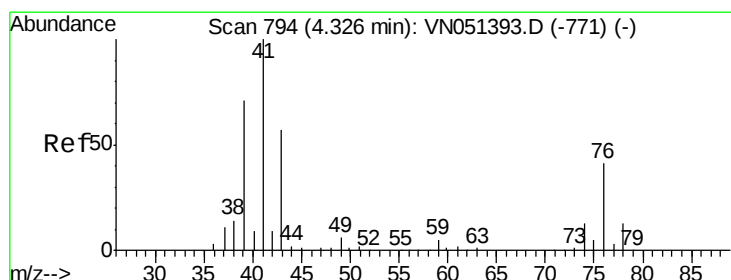
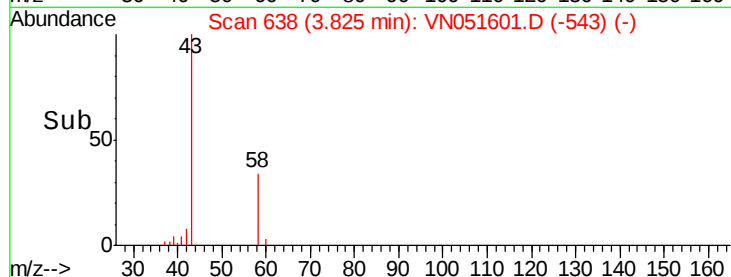
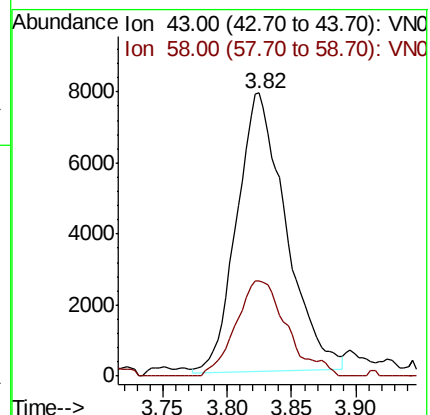
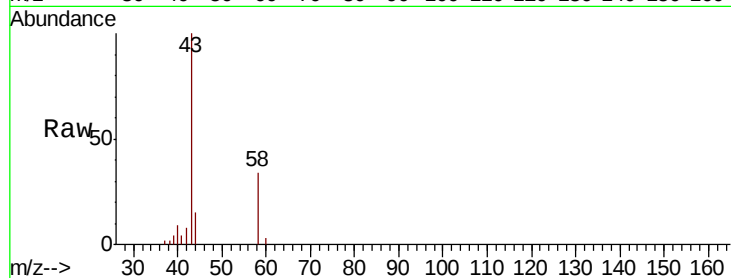
TP-3

Tot Ion: 43 Resp: 20722

Ion Ratio Lower Upper

43 100

58 34.6 25.0 37.4



#18

Methyl Acetate

Concen: 3.240 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051601.D

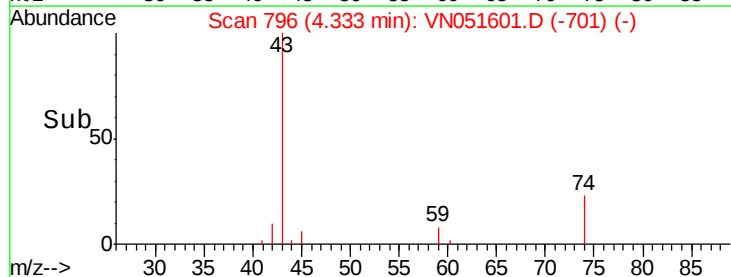
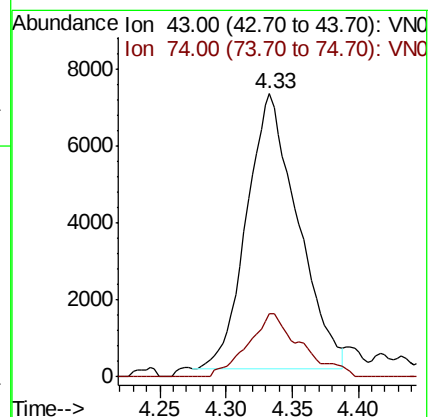
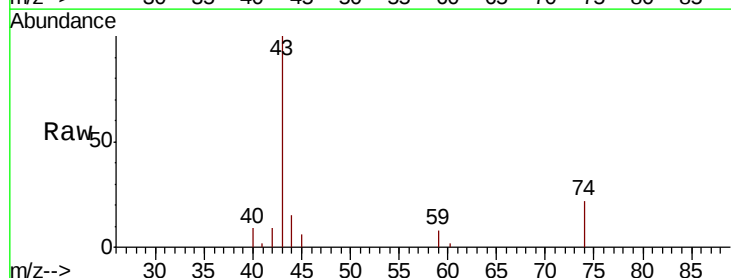
Acq: 27 Sep 2018 23:00

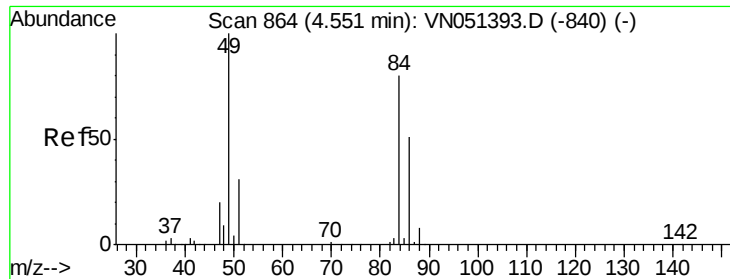
Tgt Ion: 43 Resp: 19186

Ion Ratio Lower Upper

43 100

74 24.0 18.8 28.2

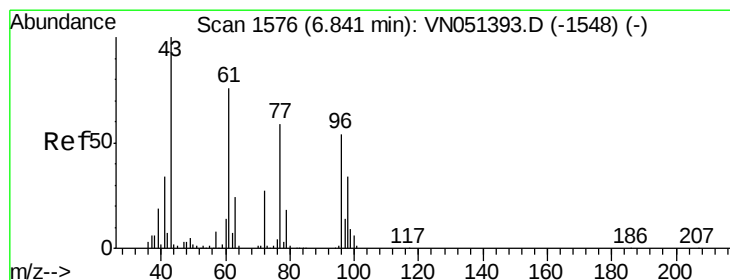
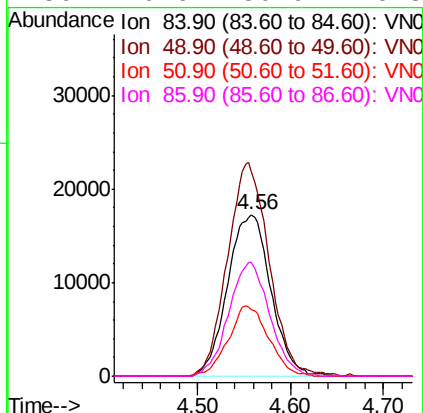
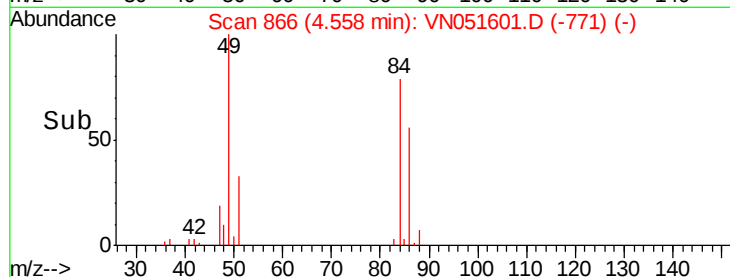
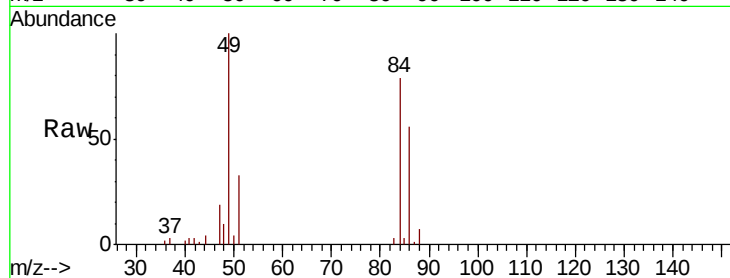




#20
Methvlene Chloride
Concen: 7.256 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051601.D
Acq: 27 Sep 2018 23:00

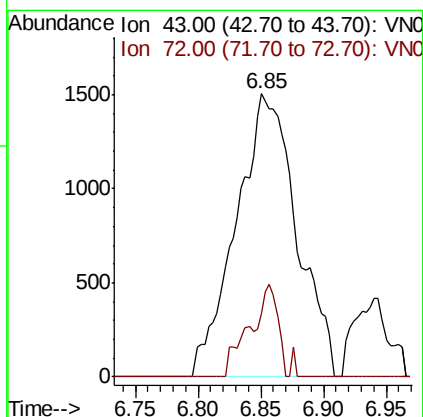
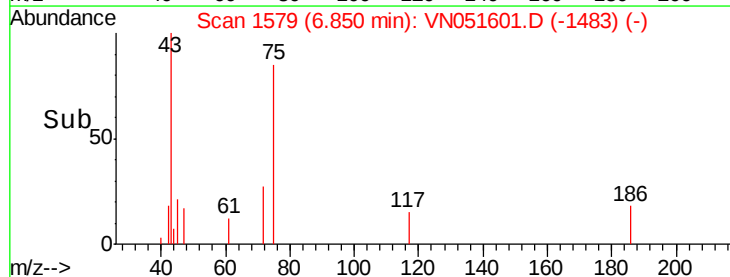
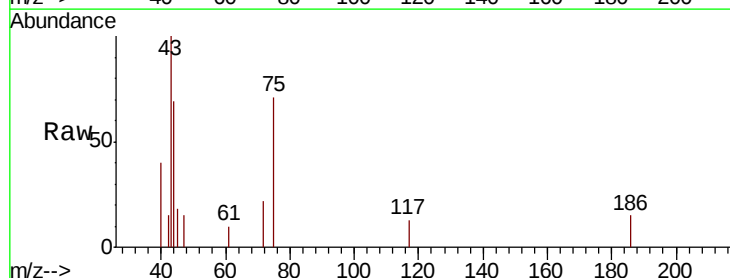
Instrument :
MSVOA_N
ClientSampled :
TP-3

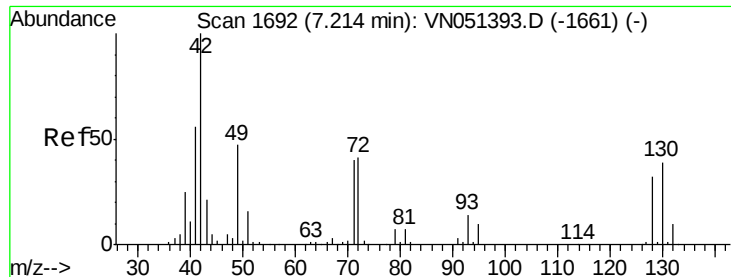
Tot Ion:	84	Resp:	55836
Ion	Ratio	Lower	Upper
84	100		
49	127.2	99.9	149.9
51	41.6	31.4	47.2
86	70.6	50.9	76.3



#25
2-Butanone
Concen: 1.900 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051601.D
Acq: 27 Sep 2018 23:00

Tgt Ion:	43	Resp:	5057
Ion	Ratio	Lower	Upper
43	100		
72	22.3	21.8	32.6





#29

Tetrahydrofuran

Concen: 0.665 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampleId :

TP-3

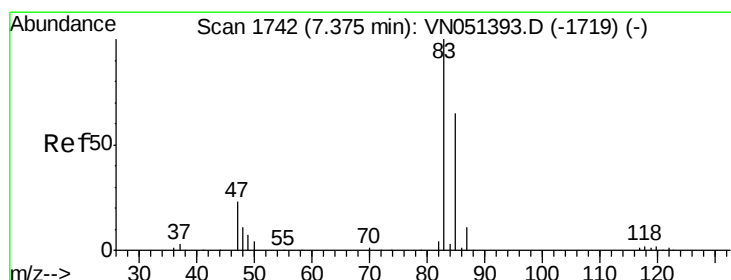
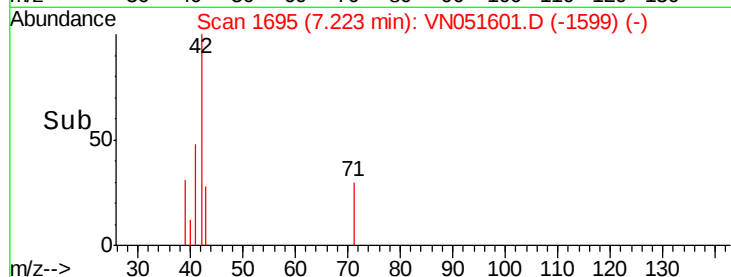
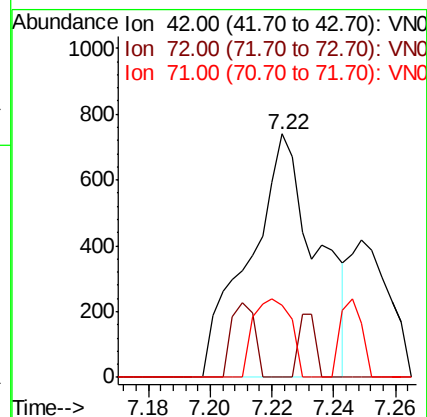
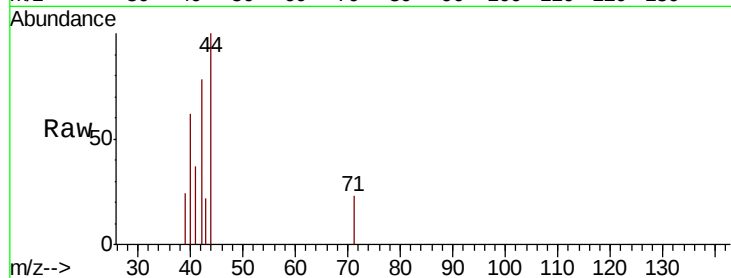
Tot Ion: 42 Resp: 1121

Ion Ratio Lower Upper

42 100

72 6.6 34.3 51.5#

71 17.9 32.2 48.4#



#30

Chloroform

Concen: 1.362 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VN051601.D

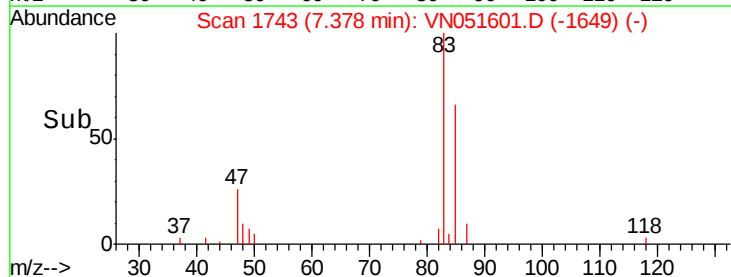
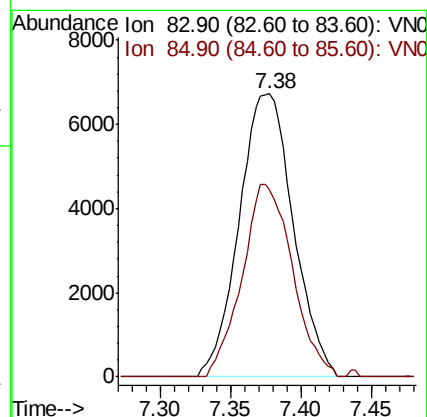
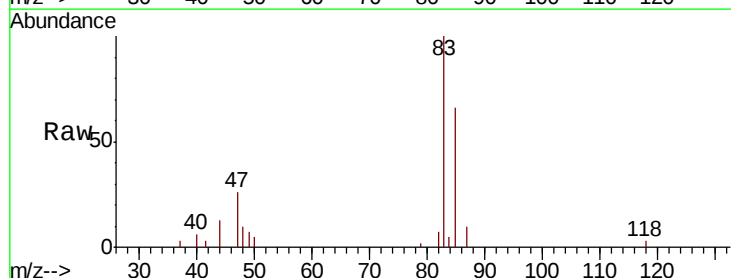
Acq: 27 Sep 2018 23:00

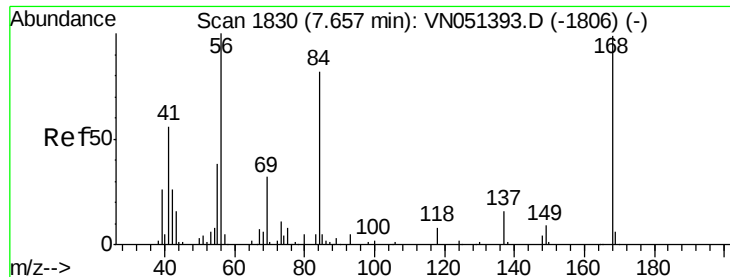
Tgt Ion: 83 Resp: 18038

Ion Ratio Lower Upper

83 100

85 66.2 51.8 77.6

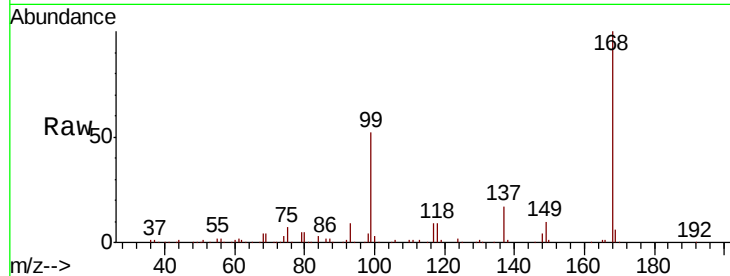




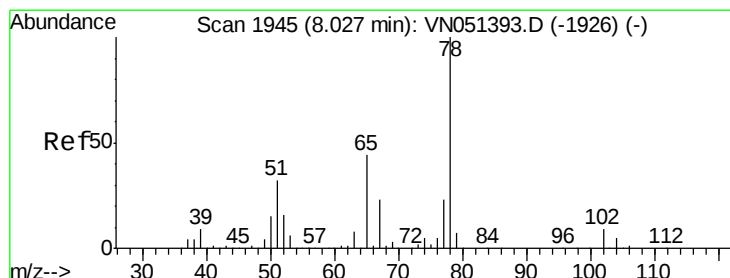
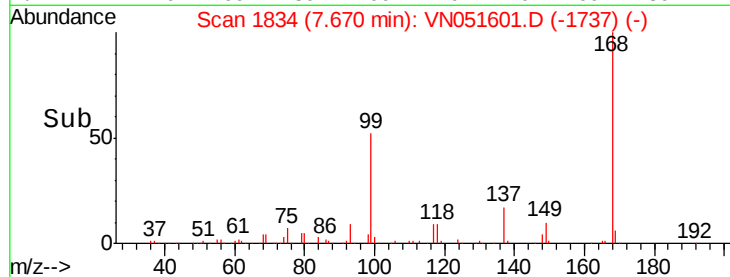
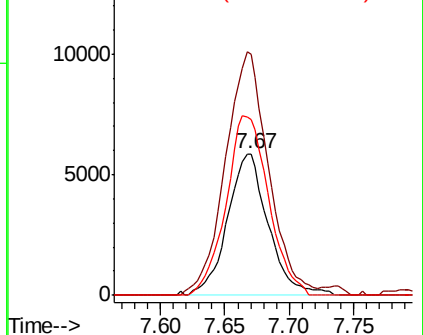
#31
Cyclohexane
Concen: 1.058 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051601.D
Acq: 27 Sep 2018 23:00

Instrument :
MSVOA_N
ClientSampled :
TP-3

Tot Ion: 56 Resp: 12950
Ion Ratio Lower Upper
56 100
69 165.7 25.8 38.6#
84 124.1 66.0 99.0#

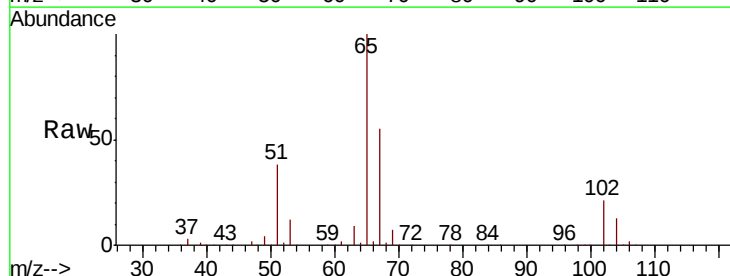


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

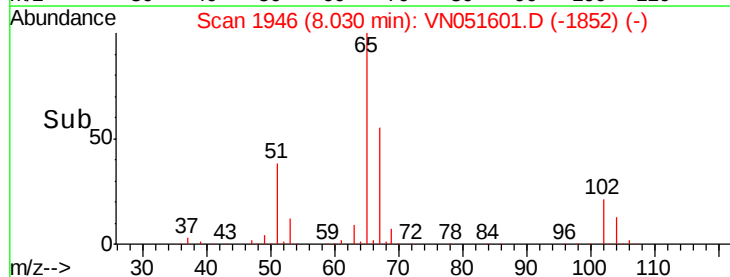
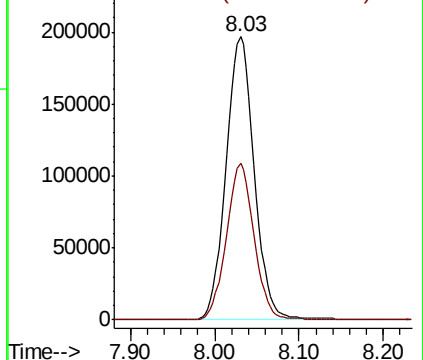


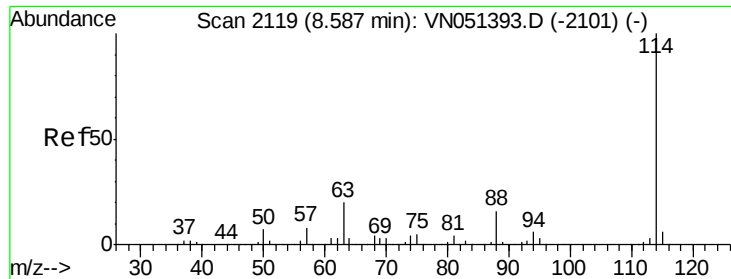
#33
1,2-Dichloroethane-d4
Concen: 58.855 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051601.D
Acq: 27 Sep 2018 23:00

Tgt Ion: 65 Resp: 457670
Ion Ratio Lower Upper
65 100
67 54.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampleId :

TP-3

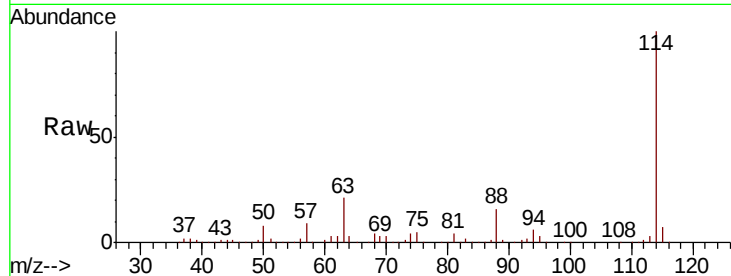
Tot Ion:114 Resp: 1033222

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.2

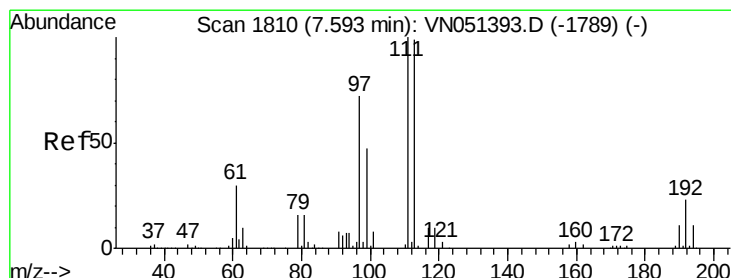
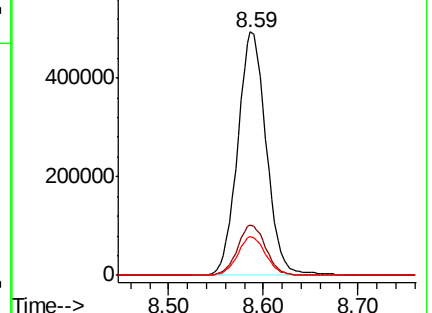
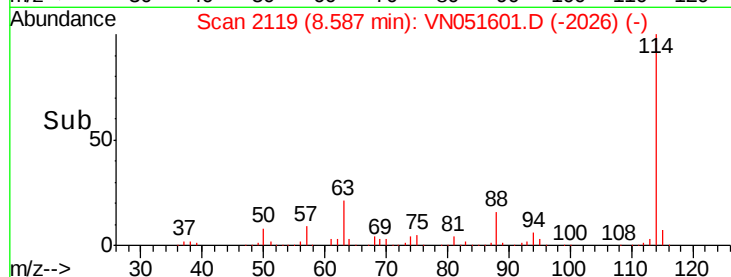
88 15.9 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 48.548 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

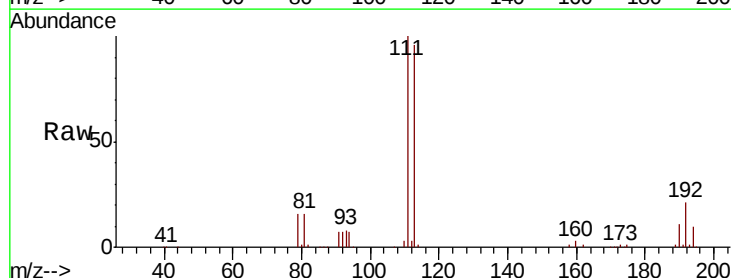
Tgt Ion:113 Resp: 401117

Ion Ratio Lower Upper

113 100

111 100.8 82.6 123.8

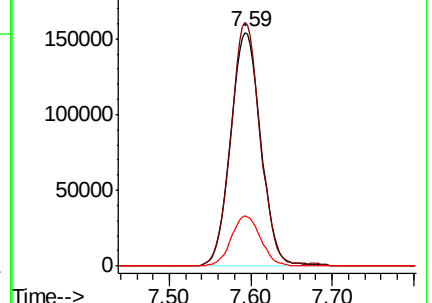
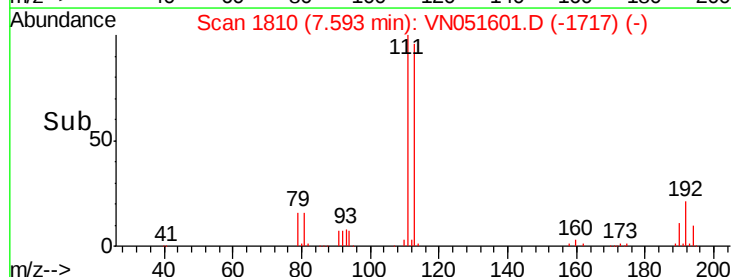
192 21.0 18.0 27.0

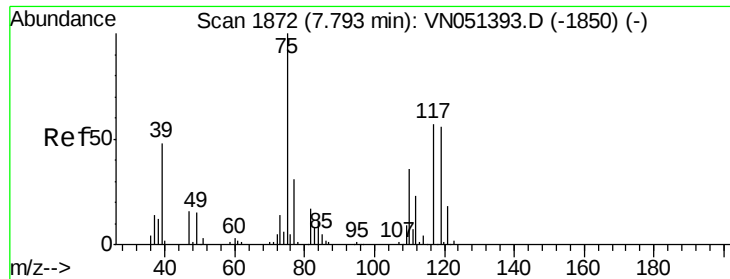


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

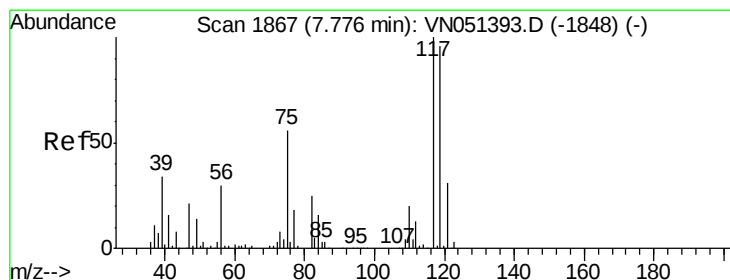
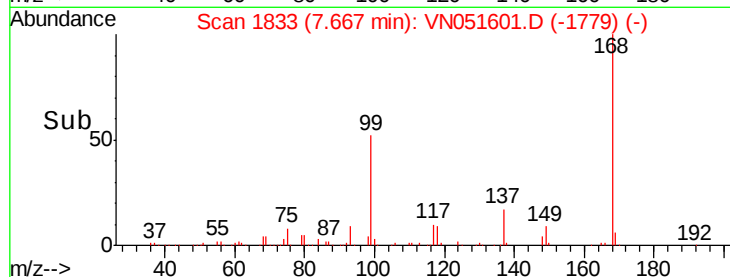
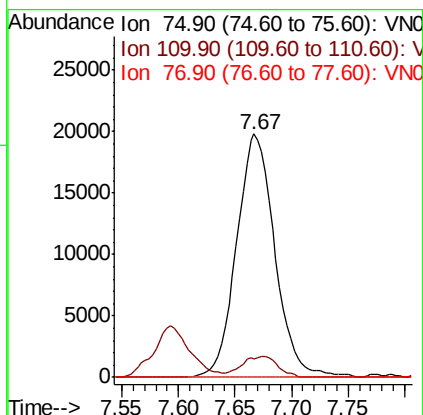
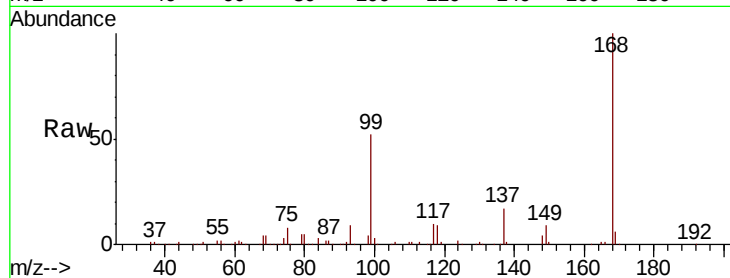




#36
 1,1-Dichloropropene
 Concen: 3.887 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051601.D
 Acq: 27 Sep 2018 23:00

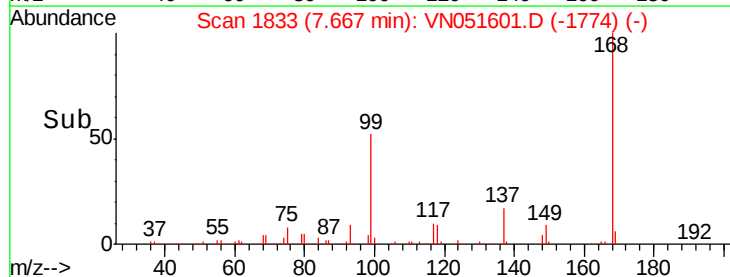
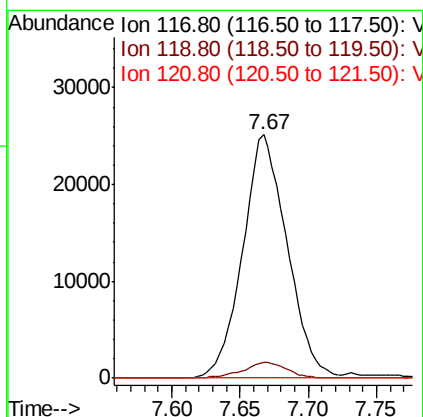
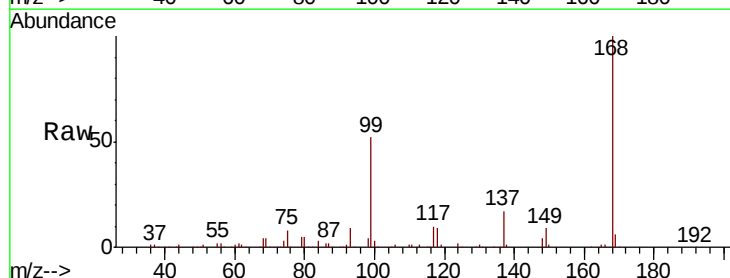
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3

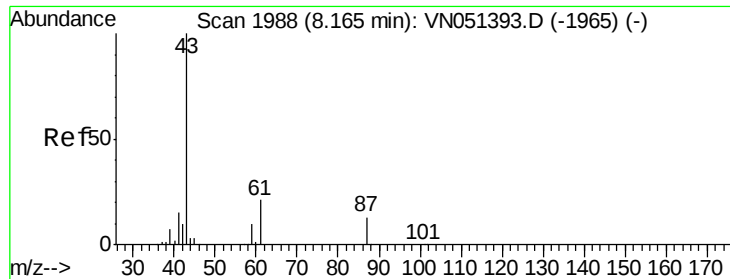
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.539 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051601.D
 Acq: 27 Sep 2018 23:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	76.9	115.3#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 30.305 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampled :

TP-3

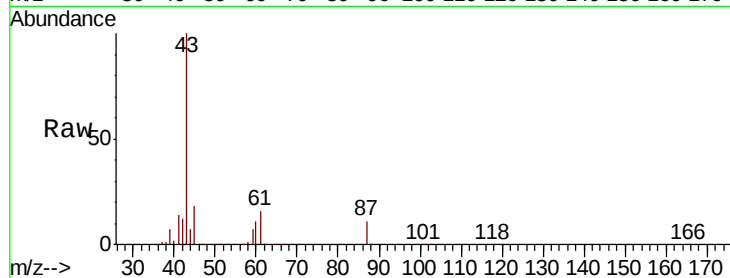
Tot Ion: 43 Resp: 376990

Ion Ratio Lower Upper

43 100

61 14.4 16.8 25.2#

87 8.7 10.7 16.1#

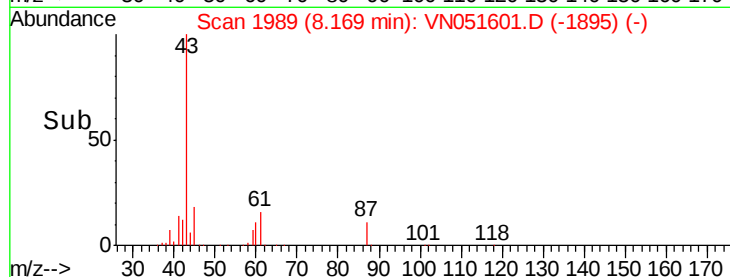


Abundance Ion 43.00 (42.70 to 43.70): VN051601.D (-1965) (-)

Ion 61.00 (60.70 to 61.70): VN051601.D (-1965) (-)

Ion 87.00 (86.70 to 87.70): VN051601.D (-1965) (-)

Time-->



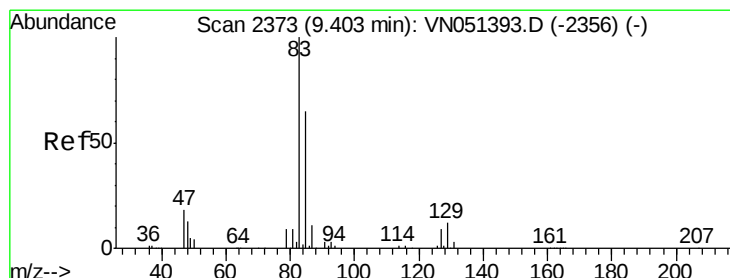
Abundance

Ion 43.00 (42.70 to 43.70): VN051601.D (-1895) (-)

Ion 61.00 (60.70 to 61.70): VN051601.D (-1895) (-)

Ion 87.00 (86.70 to 87.70): VN051601.D (-1895) (-)

Time-->



#47

Bromodichloromethane

Concen: 0.437 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

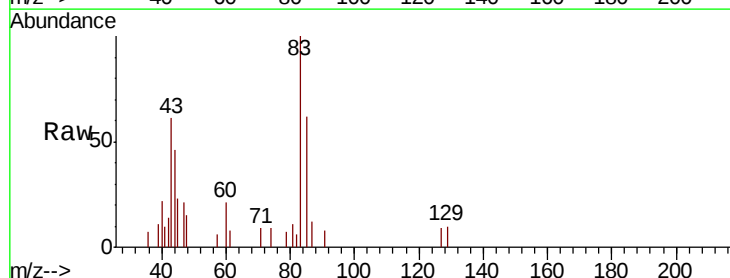
Tgt Ion: 83 Resp: 5213

Ion Ratio Lower Upper

83 100

85 62.2 51.8 77.6

127 9.1 7.4 11.2

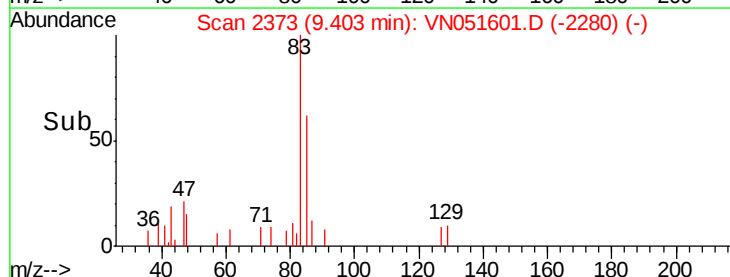


Abundance Ion 82.90 (82.60 to 83.60): VN051601.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051601.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051601.D (-2356) (-)

Time-->



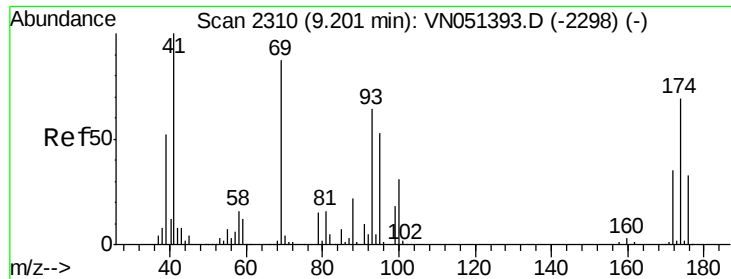
Abundance

Ion 82.90 (82.60 to 83.60): VN051601.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN051601.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN051601.D (-2280) (-)

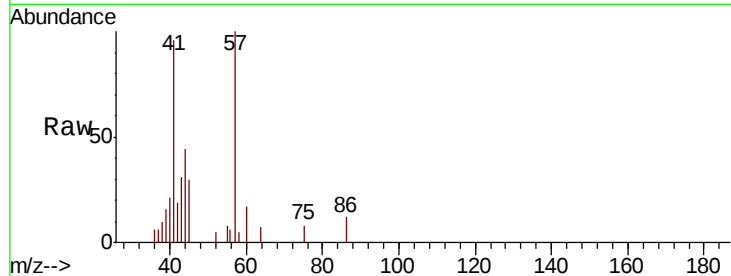
Time-->



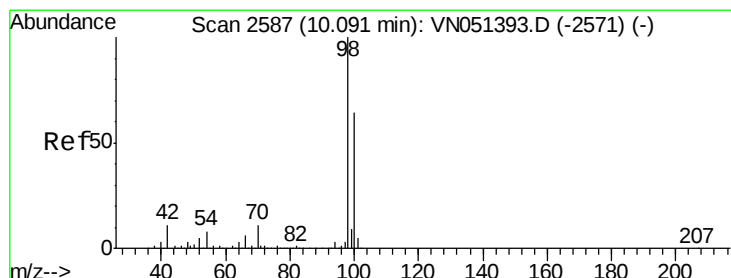
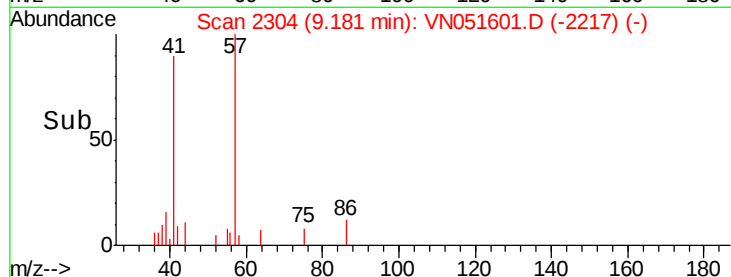
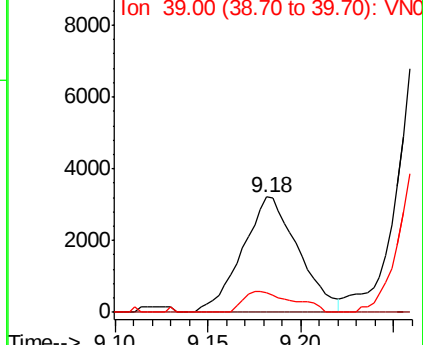
#48
Methyl methacrylate
Concen: 1.093 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051601.D
Acq: 27 Sep 2018 23:00

Instrument :
MSVOA_N
ClientSampled :
TP-3

Tot Ion: 41 Resp: 6779
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 16.1 43.8 65.8#

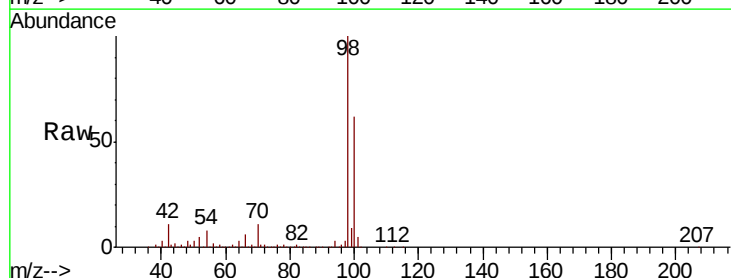


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

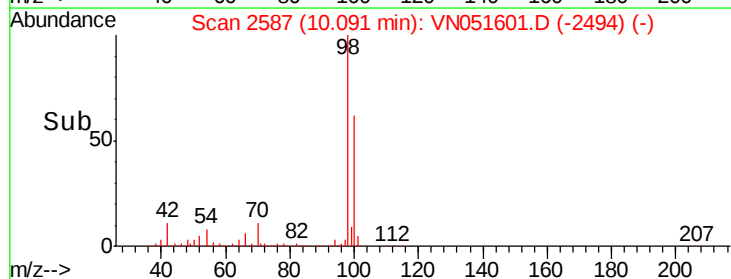
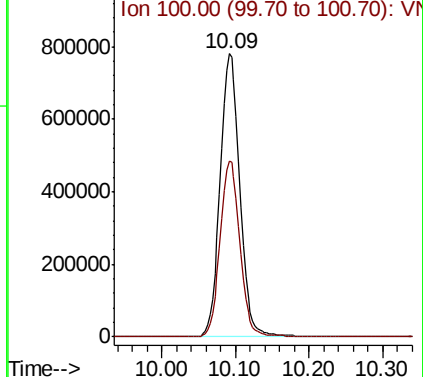


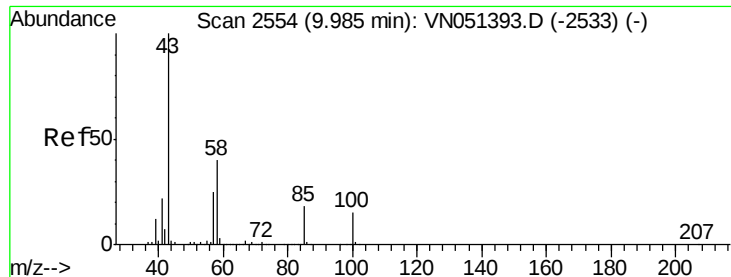
#50
Toluene-d8
Concen: 46.625 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051601.D
Acq: 27 Sep 2018 23:00

Tgt Ion: 98 Resp: 1450614
Ion Ratio Lower Upper
98 100
100 62.5 50.6 75.8



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: 0.324 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampled :

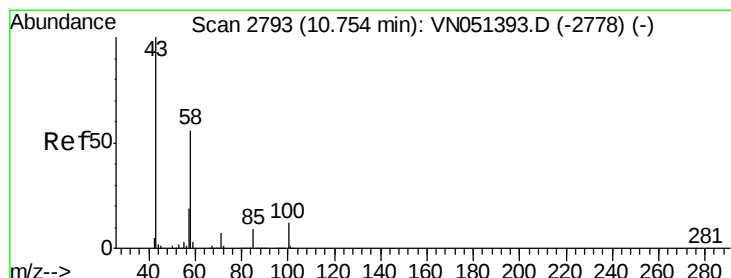
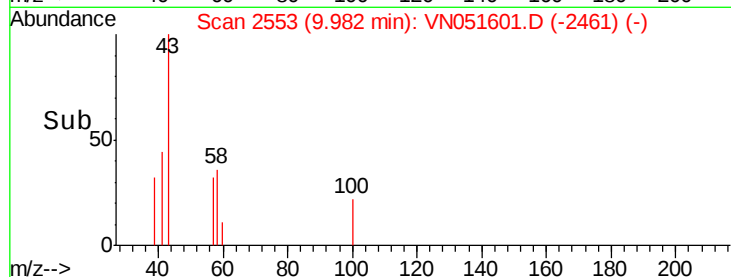
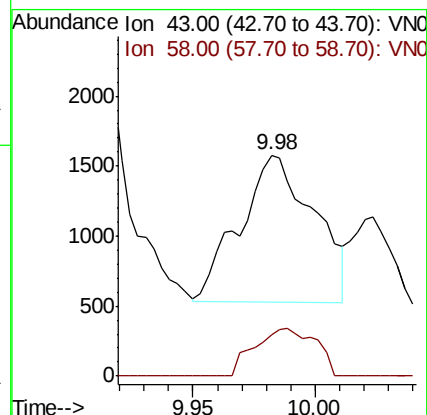
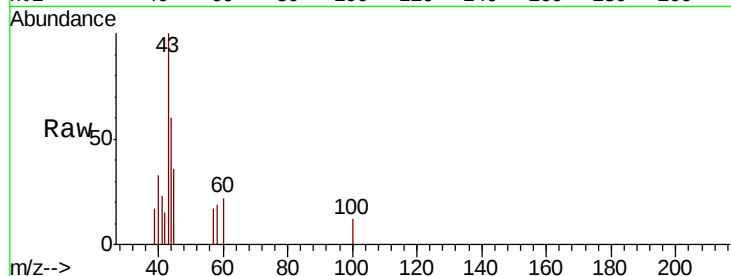
TP-3

Tot Ion: 43 Resp: 2218

Ion Ratio Lower Upper

43 100

58 26.7 31.5 47.3#



#59

2-Hexanone

Concen: 3.865 ug/l

RT: 10.77 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN051601.D

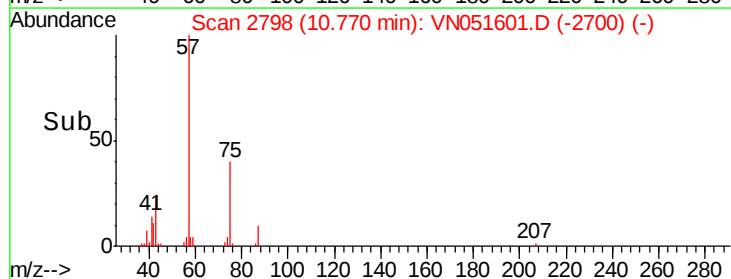
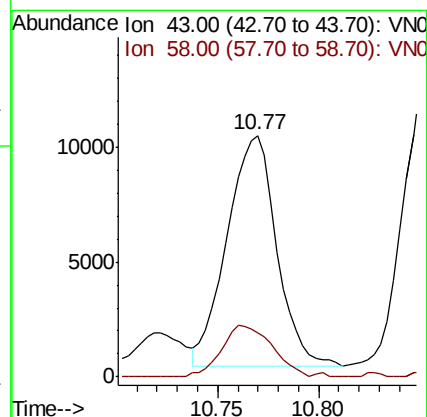
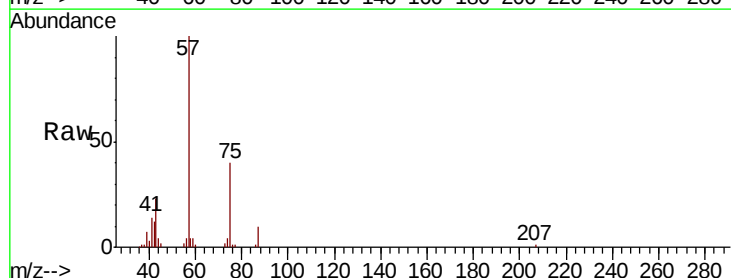
Acq: 27 Sep 2018 23:00

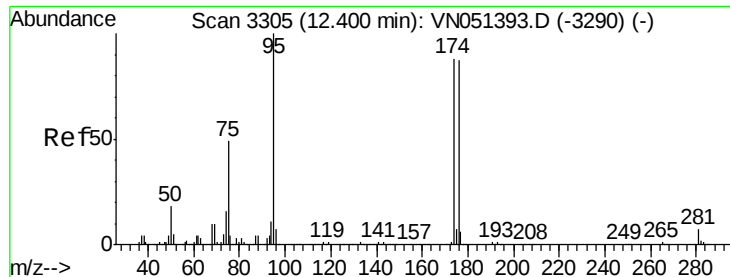
Tgt Ion: 43 Resp: 17143

Ion Ratio Lower Upper

43 100

58 22.7 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 39.656 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampleId :

TP-3

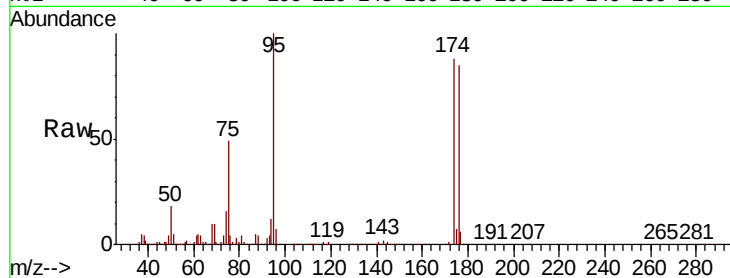
Tot Ion: 95 Resp: 399129

Ion Ratio Lower Upper

95 100

174 88.2 0.0 181.6

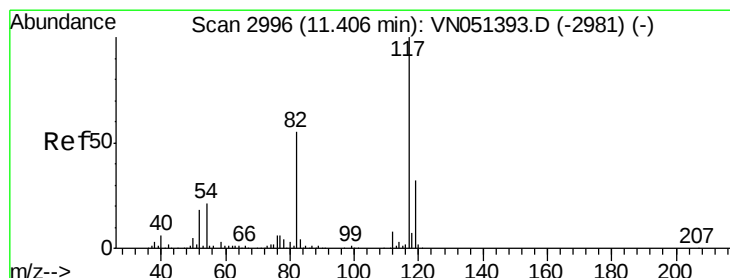
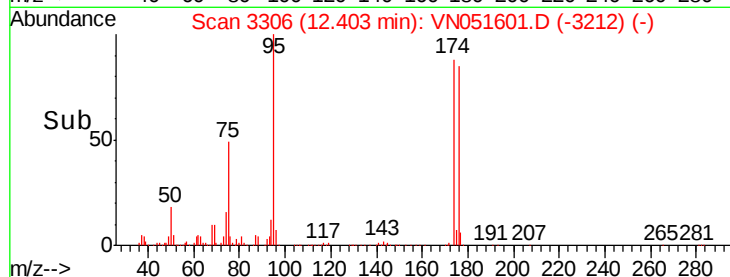
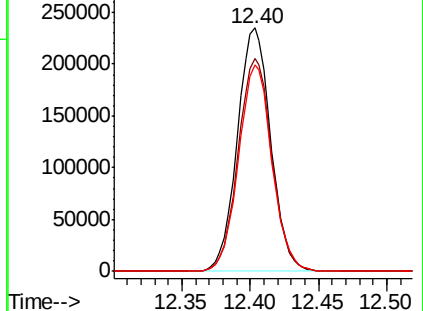
176 84.8 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

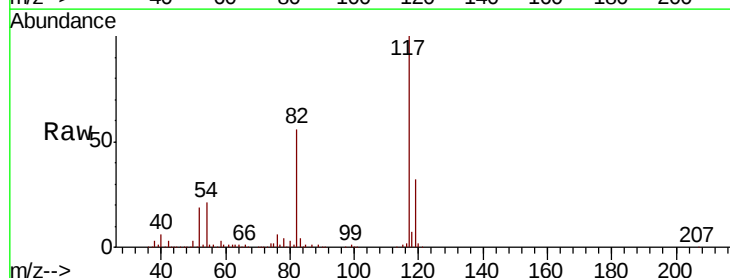
Tgt Ion: 117 Resp: 872623

Ion Ratio Lower Upper

117 100

82 55.5 44.2 66.2

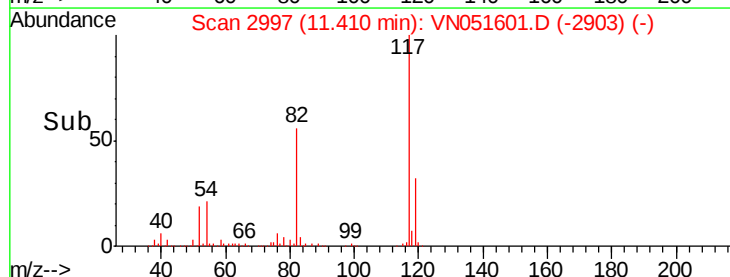
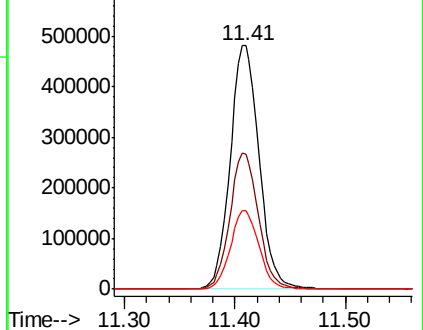
119 32.3 25.9 38.9

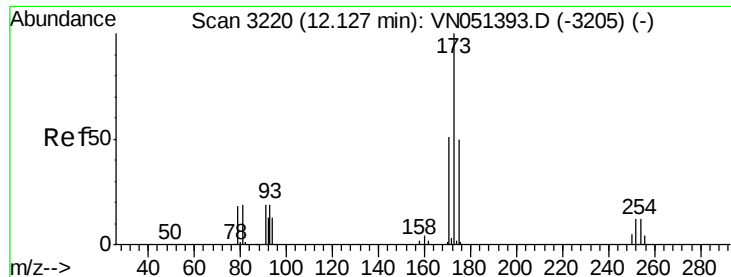


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)





#71

Bromoform

Concen: 0.446 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampled :

TP-3

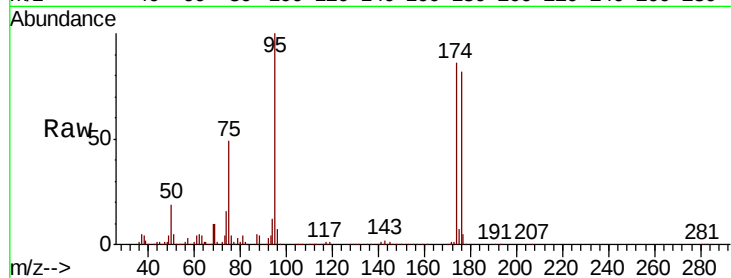
Tot Ion:173 Resp: 2580

Ion Ratio Lower Upper

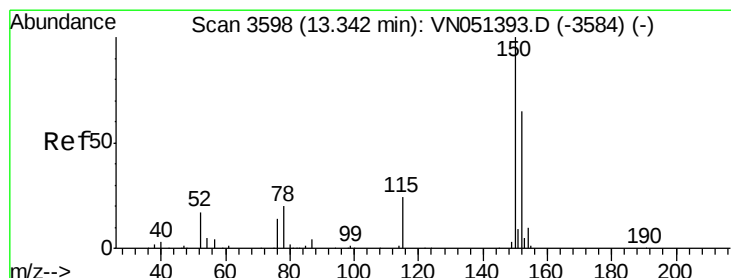
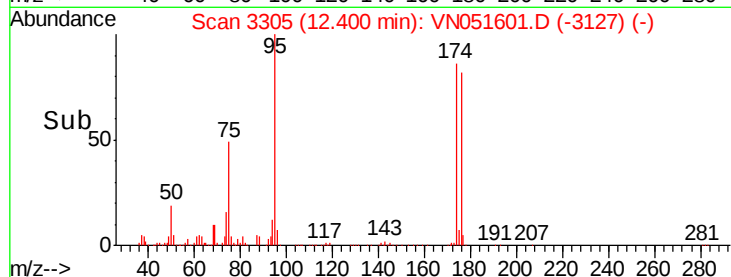
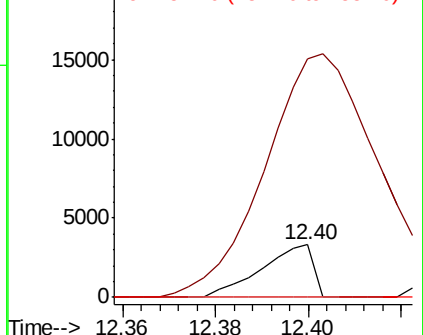
173 100

175 839.2 24.8 74.3#

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: VN051601.D

Acq: 27 Sep 2018 23:00

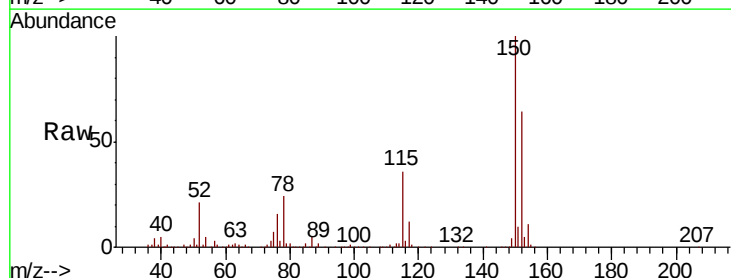
Tgt Ion:152 Resp: 338828

Ion Ratio Lower Upper

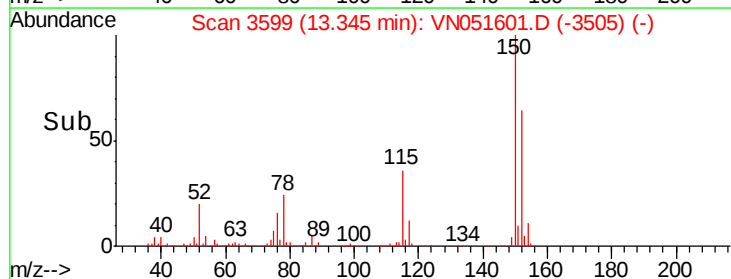
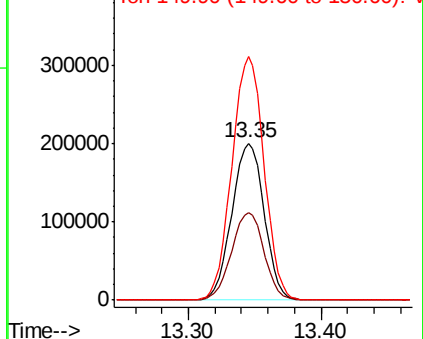
152 100

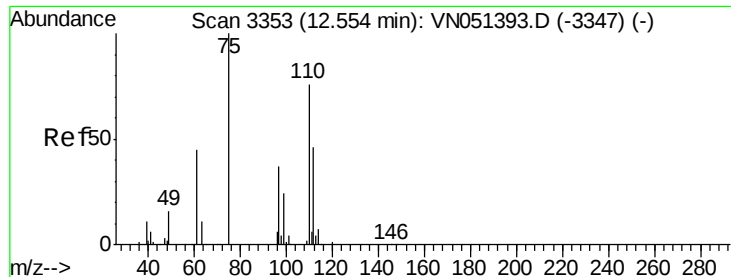
115 56.3 28.3 84.9

150 154.7 0.0 353.6



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





#76

1,2,3-Trichloropropane

Concen: 34.798 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

Instrument :

MSVOA_N

ClientSampled :

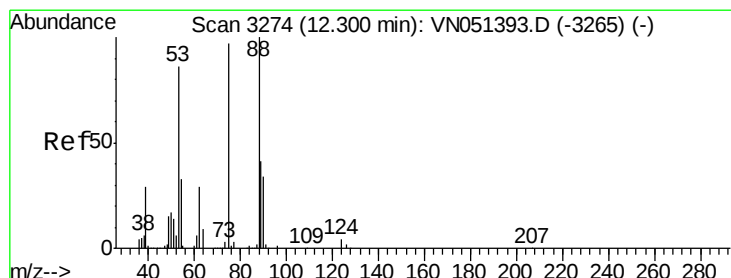
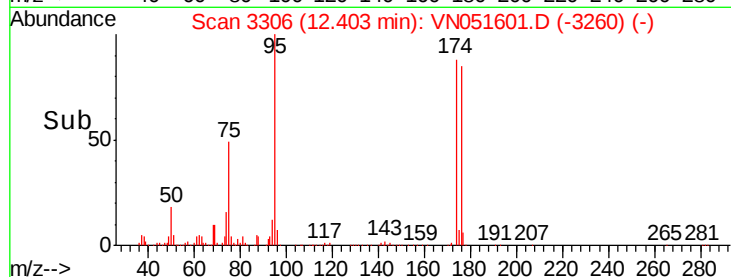
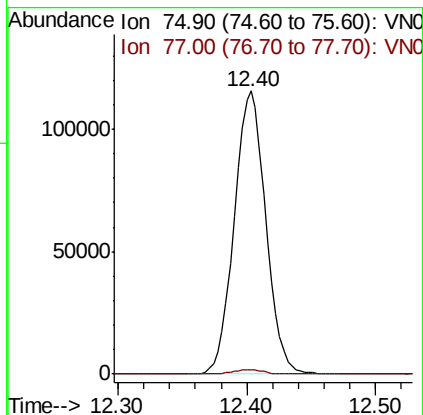
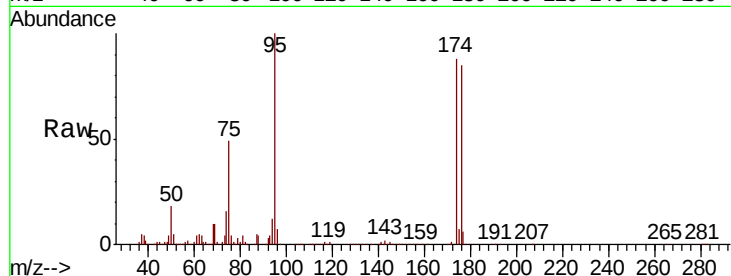
TP-3

Tot Ion: 75 Resp: 195733

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.003 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051601.D

Acq: 27 Sep 2018 23:00

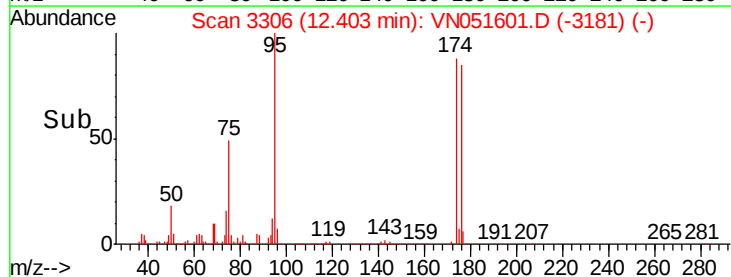
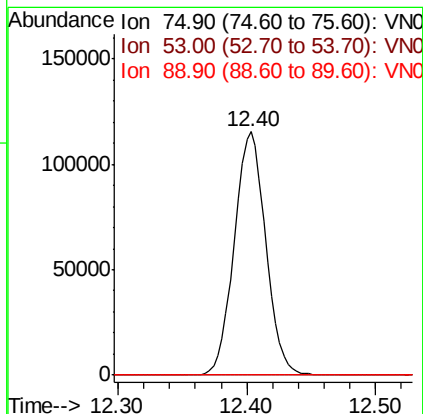
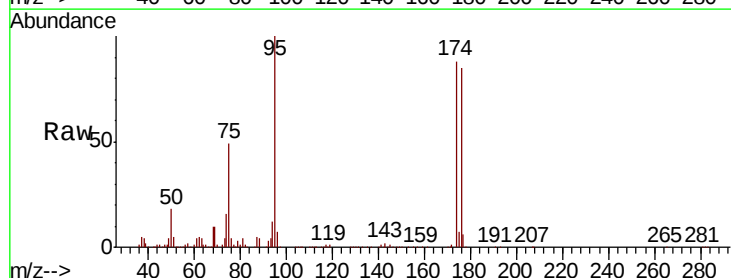
Tgt Ion: 75 Resp: 195733

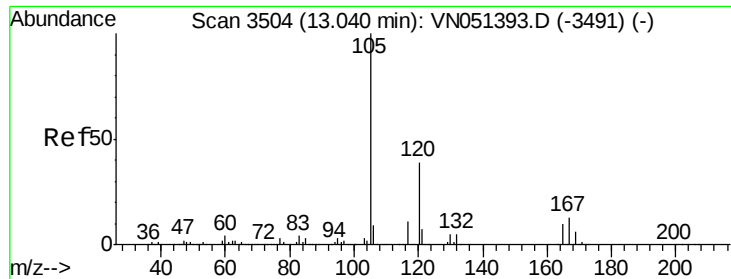
Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

89 0.0 36.7 55.1#

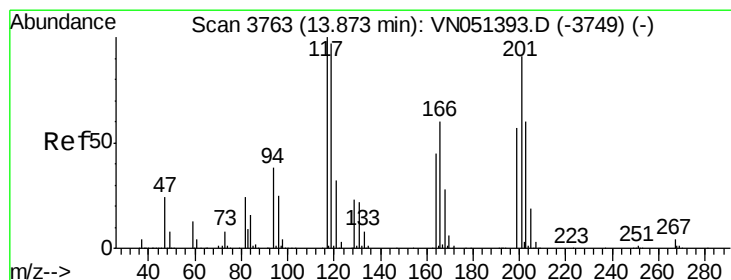
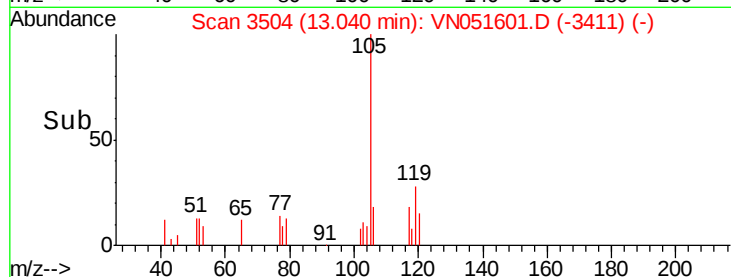
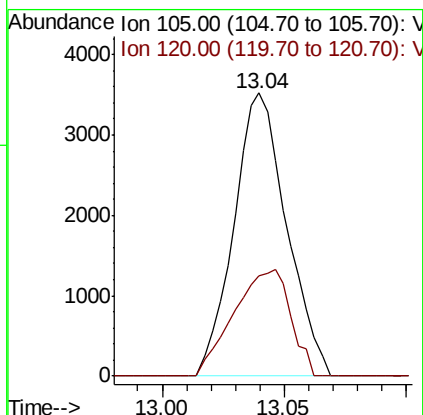
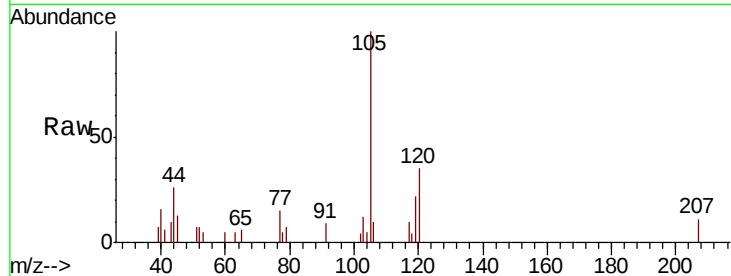




#84
 1,2,4-Trimethylbenzene
 Concen: 0.224 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051601.D
 Acq: 27 Sep 2018 23:00

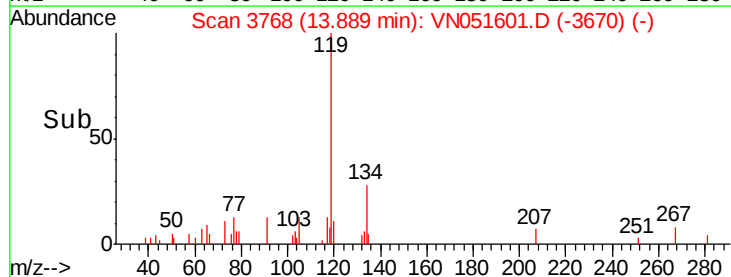
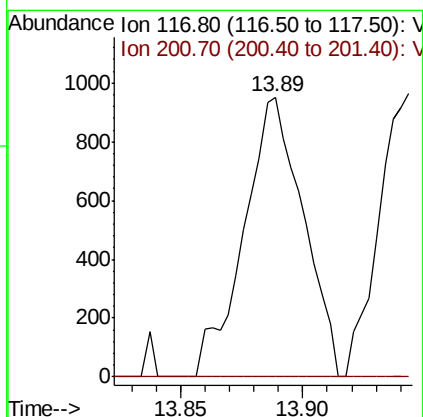
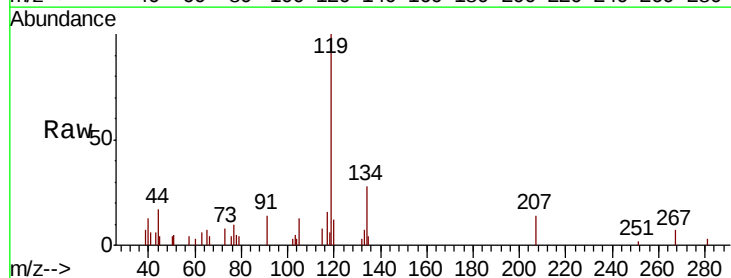
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

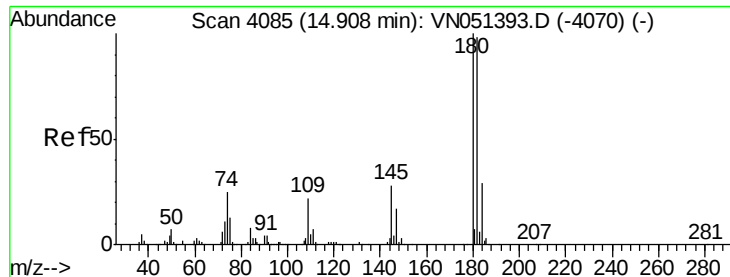
Tot Ion:105 Resp: 5265
 Ion Ratio Lower Upper
 105 100
 120 40.6 22.9 68.7



#90
 Hexachloroethane
 Concen: 0.332 ug/l
 RT: 13.89 min Scan# 3768
 Delta R.T. 0.02 min
 Lab File: VN051601.D
 Acq: 27 Sep 2018 23:00

Tgt Ion:117 Resp: 1605
 Ion Ratio Lower Upper
 117 100
 201 0.0 45.5 136.4#

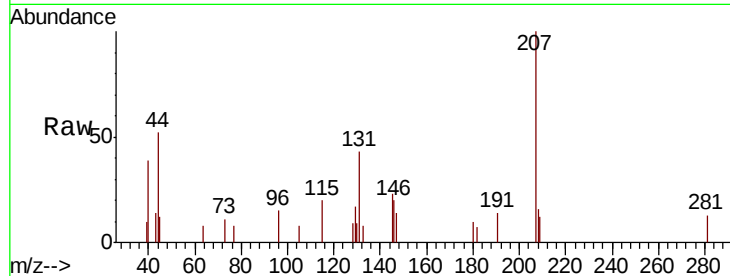




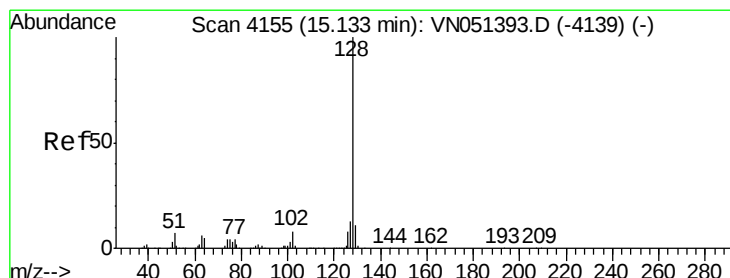
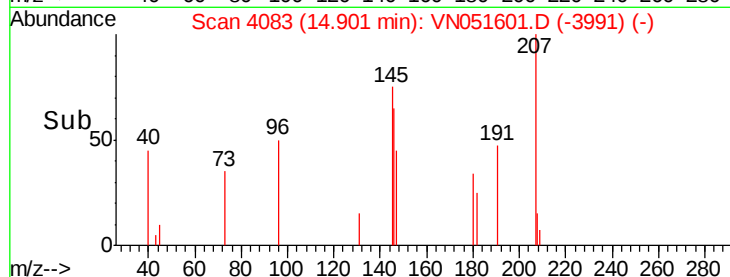
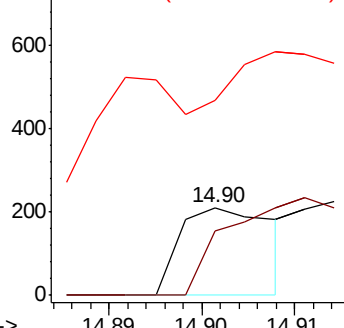
#93
 1,2,4-Trichlorobenzene
 Concen: 6.001 ug/l
 RT: 14.90 min Scan# 4083
 Delta R.T. -0.01 min
 Lab File: VN051601.D
 Acq: 27 Sep 2018 23:00

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Tot Ion:180 Resp: 147
 Ion Ratio Lower Upper
 180 100
 182 129.3 48.5 145.6
 145 621.1 14.1 42.4#

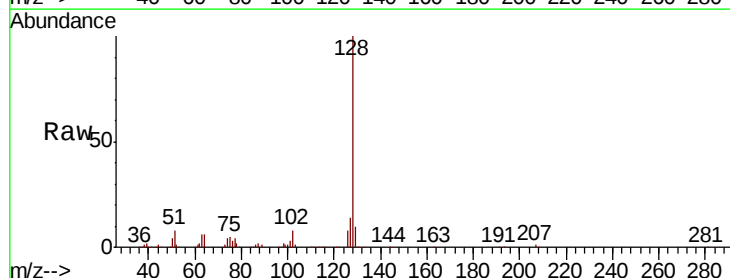


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 28.974 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051601.D
 Acq: 27 Sep 2018 23:00

Tgt Ion:128 Resp: 314228
 Ion Ratio Lower Upper
 128 100
 127 13.9 10.5 15.7
 129 10.5 8.6 12.8



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

