

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051328.D
 Acq On : 19 Sep 2018 18:56
 Operator : MD\SY
 Sample : PB112984ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:46:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	536838	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	845634	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	689196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	225382	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	309808	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	
35) Dibromofluoromethane	7.59	113	316492	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
50) Toluene-d8	10.09	98	1105502	45.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.02%	
62) 4-Bromofluorobenzene	12.40	95	292107	37.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.62%	

Target Compounds

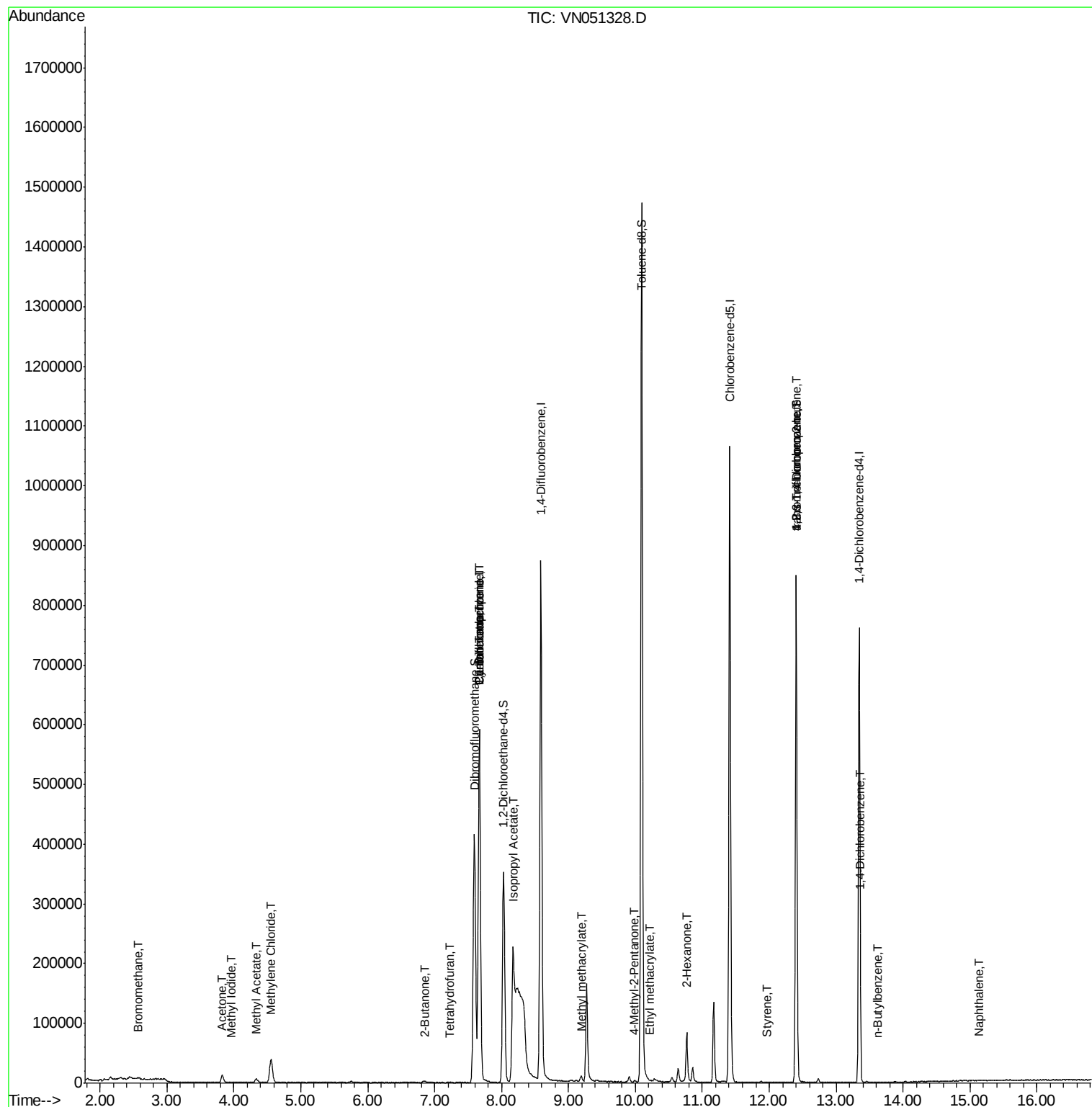
						Qvalue
3) Chloromethane	2.06	50	1603	Below Cal		97
5) Bromomethane	2.57	94	1659	0.92 ug/l	#	79
10) Methyl Iodide	3.96	142	253	6.15 ug/l	#	43
16) Acetone	3.82	43	21470	6.93 ug/l		94
17) Carbon Disulfide	4.05	76	1238	Below Cal	#	75
18) Methyl Acetate	4.34	43	12071	2.33 ug/l		96
20) Methylene Chloride	4.56	84	31971	5.01 ug/l		96
25) 2-Butanone	6.85	43	3617	1.94 ug/l		97
29) Tetrahydrofuran	7.22	42	608	0.53 ug/l	#	47
31) Cyclohexane	7.67	56	8435	0.83 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	33122	3.62 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	44459	4.66 ug/l	#	17
43) Isopropyl Acetate	8.17	43	294782	36.20 ug/l	#	87
48) Methyl methacrylate	9.18	41	5390	1.37 ug/l	#	17
51) 4-Methyl-2-Pentanone	9.99	43	2187	0.52 ug/l		87
56) Ethyl methacrylate	10.23	69	1082	2.21 ug/l	#	54
59) 2-Hexanone	10.77	43	12281	4.44 ug/l	#	55
70) Styrene	11.96	104	308	1.26 ug/l	#	39
76) 1,2,3-Trichloropropane	12.40	75	134449	43.26 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	134449	132.49 ug/l	#	15
88) 1,4-Dichlorobenzene	13.37	146	169	0.43 ug/l	#	26
89) n-Butylbenzene	13.62	91	29	2.02 ug/l	#	34
91) 1,2-Dichlorobenzene	13.37	146	169	Below Cal	#	25
95) Naphthalene	15.13	128	179	5.95 ug/l	#	69

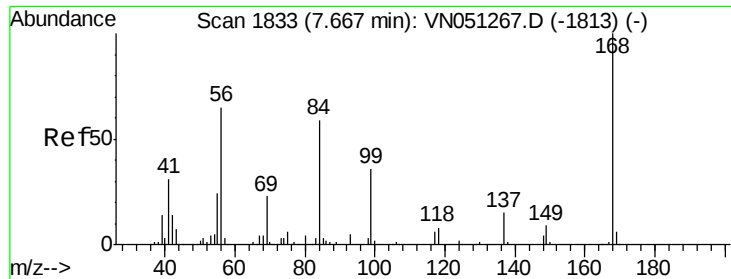
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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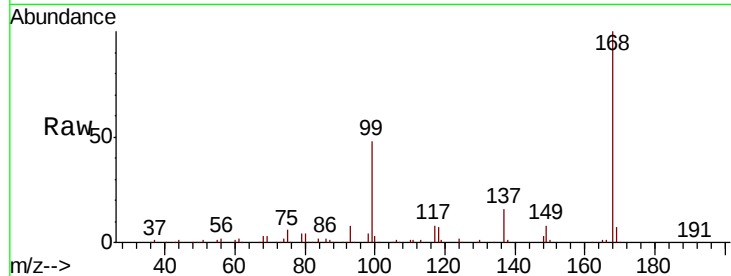


#1

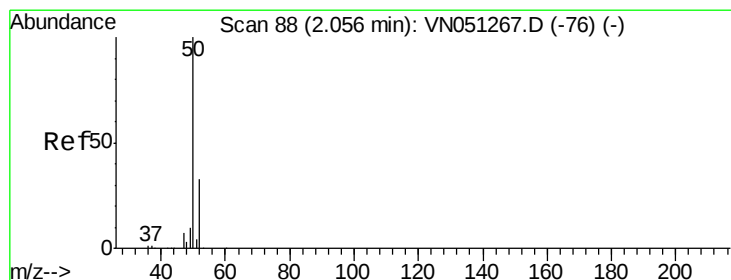
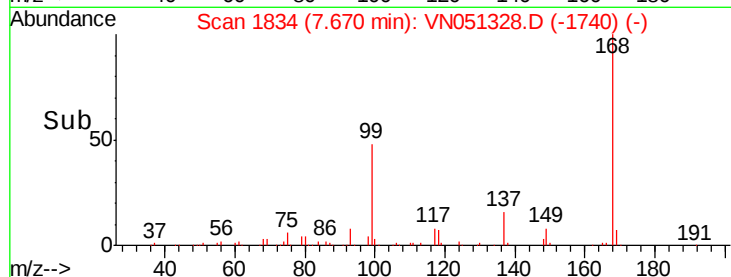
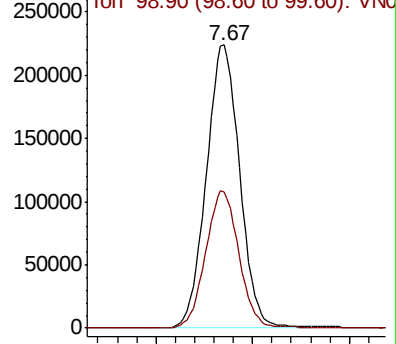
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:168 Resp: 536838
 Ion Ratio Lower Upper
 168 100
 99 48.3 38.2 57.4



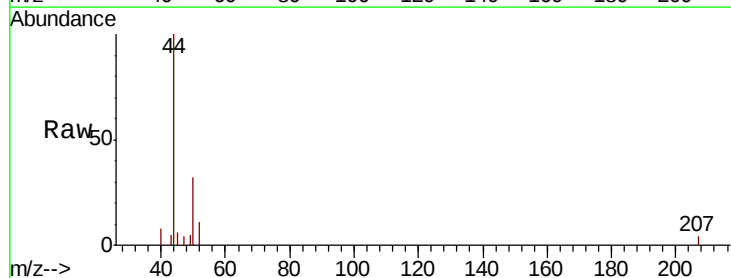
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VN



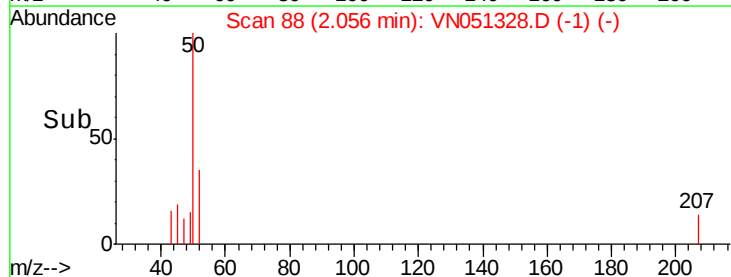
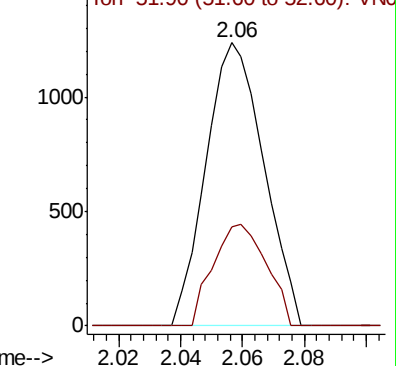
#3

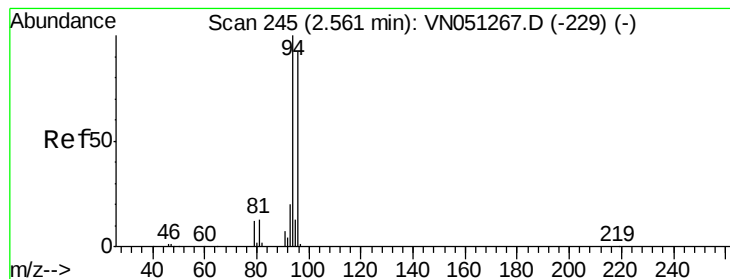
Chloromethane
 Concen: Below Cal
 RT: 2.06 min Scan# 88
 Delta R.T. 0.00 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

Tgt Ion: 50 Resp: 1603
 Ion Ratio Lower Upper
 50 100
 52 34.9 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VNO
 Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 0.92 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051328.D

Acq: 19 Sep 2018 18:56

Instrument :

MSVOA_N

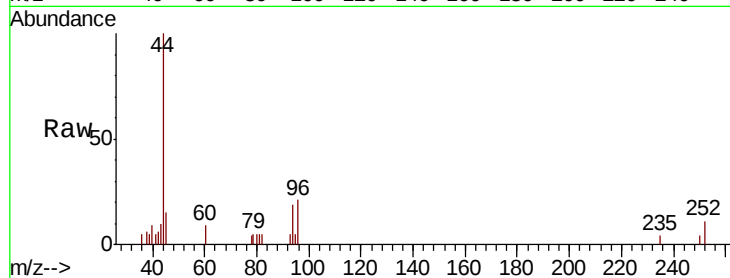
ClientSampleId :

Tot Ion: 94 Resp: 1659

Ion Ratio Lower Upper

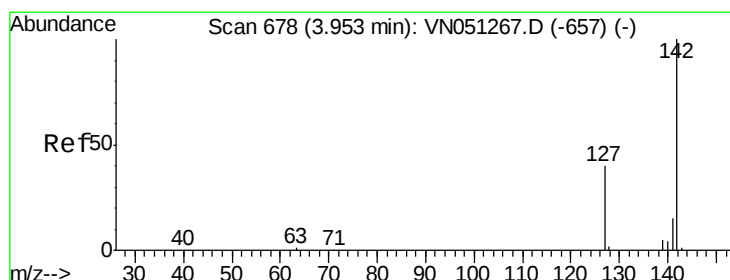
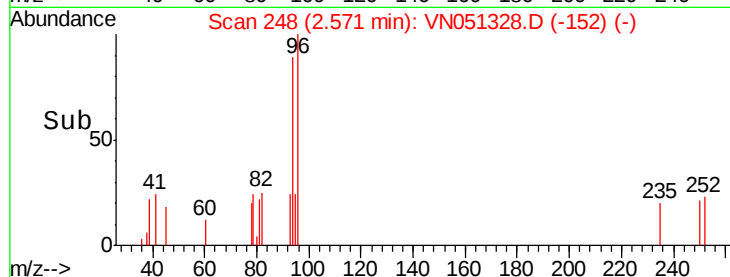
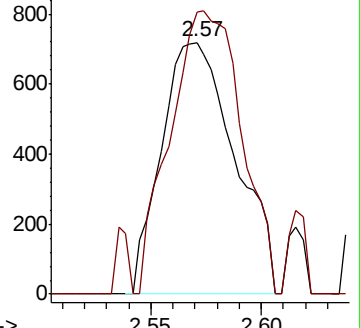
94 100

96 112.0 73.8 110.8#



Abundance Ion 93.90 (93.60 to 94.60): VN051267.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN051267.D (-229) (-)



#10

Methyl Iodide

Concen: 6.15 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.01 min

Lab File: VN051328.D

Acq: 19 Sep 2018 18:56

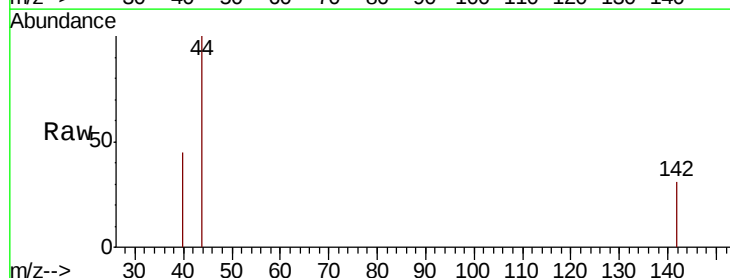
Tgt Ion: 142 Resp: 253

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

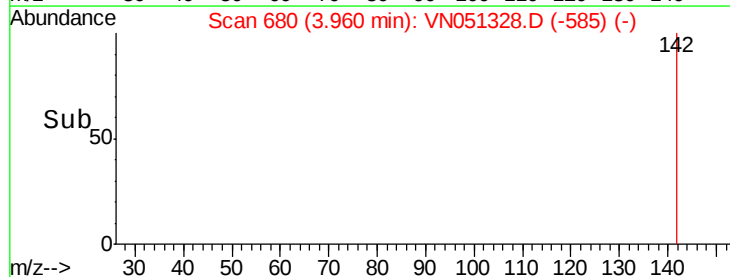
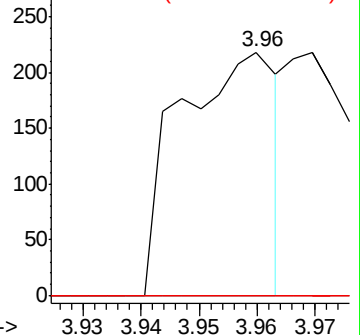
141 0.0 11.6 17.4#

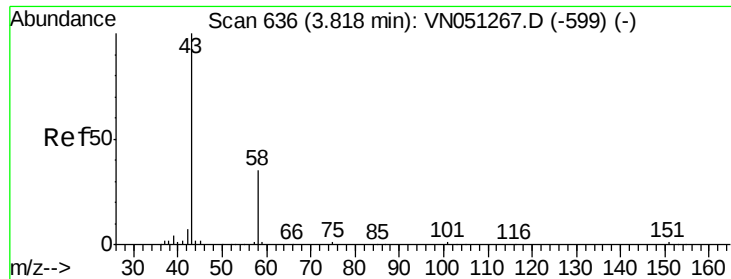


Abundance Ion 141.80 (141.50 to 142.50): VN051267.D (-657) (-)

Ion 126.80 (126.50 to 127.50): VN051267.D (-657) (-)

Ion 140.80 (140.50 to 141.50): VN051267.D (-657) (-)





#16

Acetone

Concen: 6.93 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051328.D

Acq: 19 Sep 2018 18:56

Instrument :

MSVOA_N

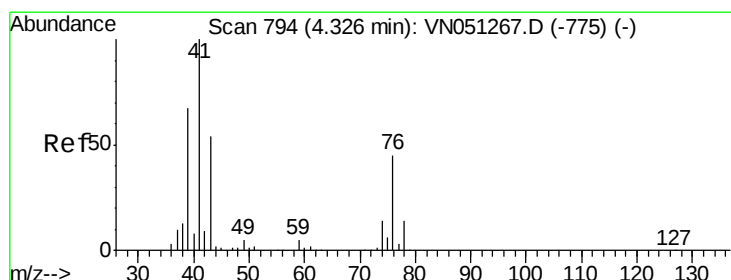
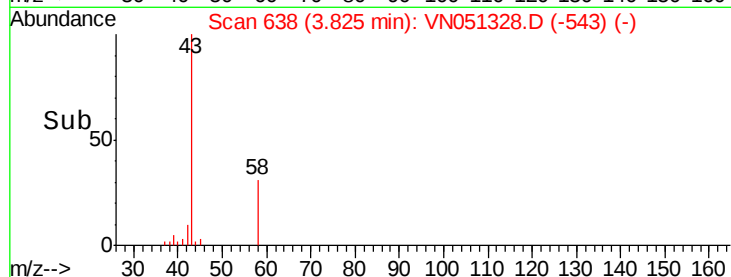
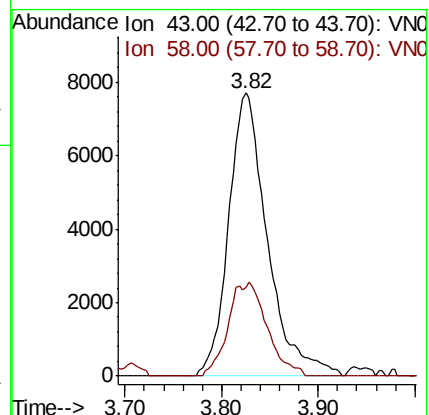
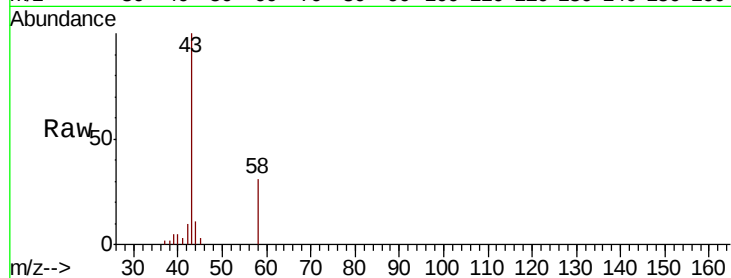
ClientSampleId :

Tot Ion: 43 Resp: 21470

Ion Ratio Lower Upper

43 100

58 31.4 28.2 42.2



#18

Methyl Acetate

Concen: 2.33 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051328.D

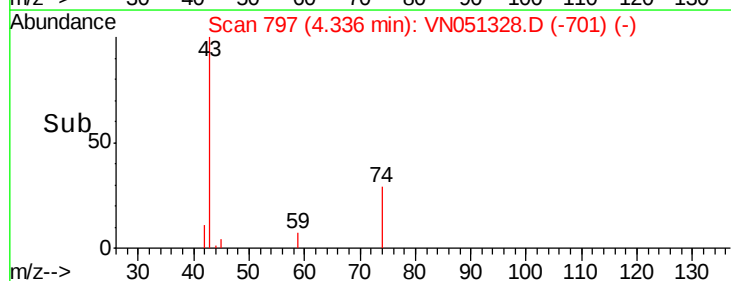
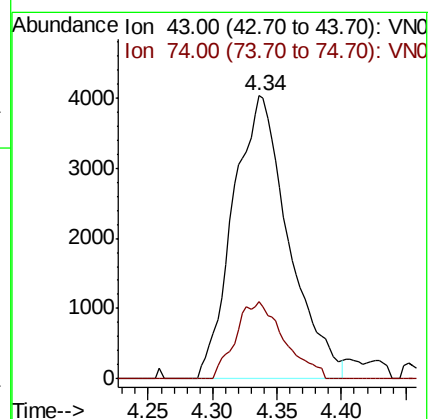
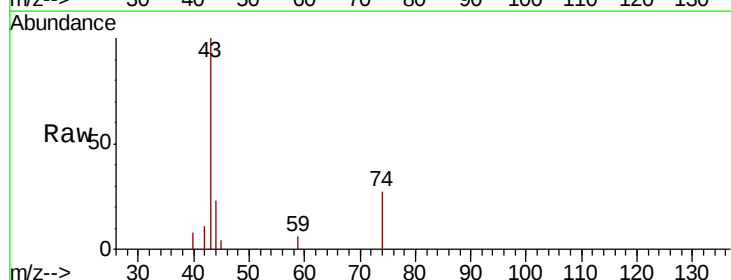
Acq: 19 Sep 2018 18:56

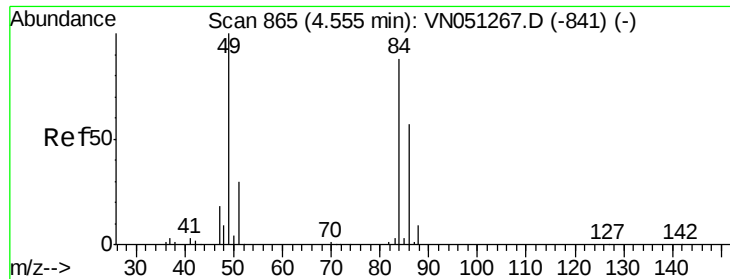
Tgt Ion: 43 Resp: 12071

Ion Ratio Lower Upper

43 100

74 23.8 20.8 31.2

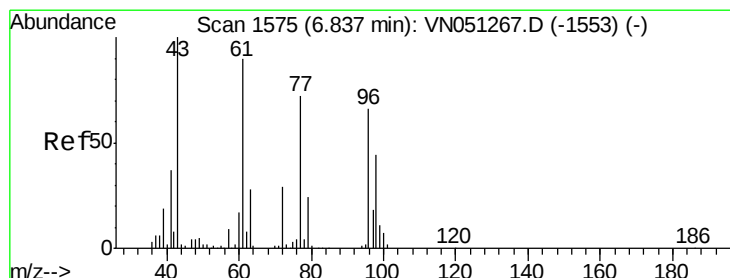
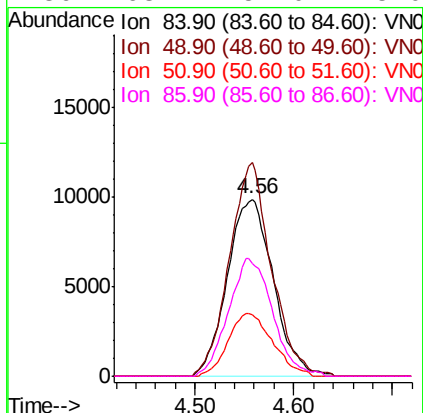
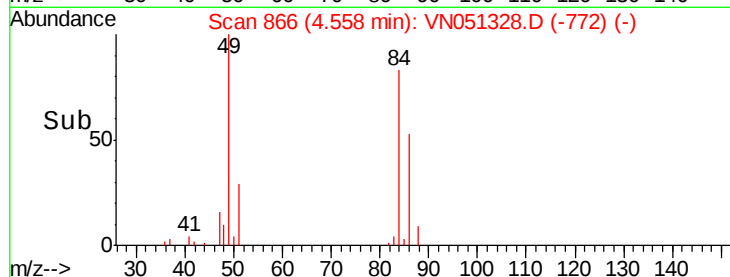
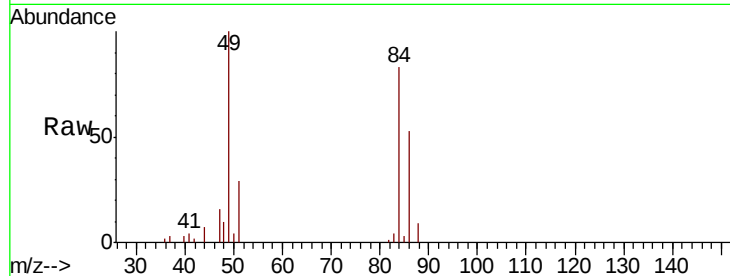




#20
Methvlene Chloride
Concen: 5.01 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

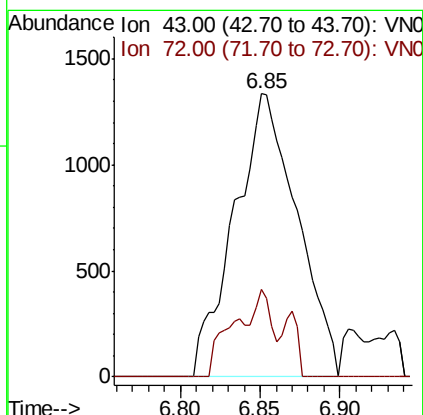
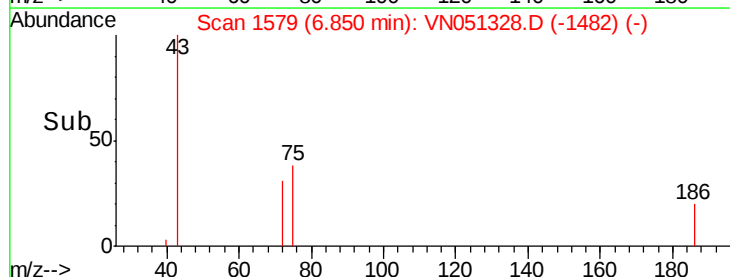
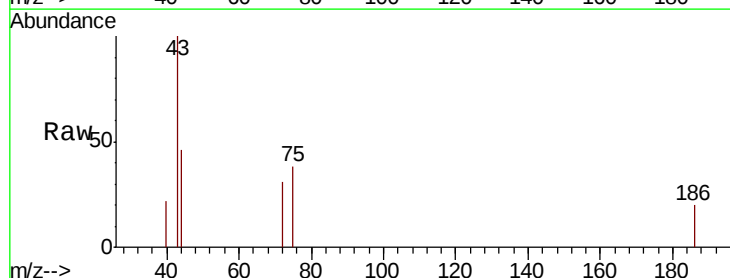
Instrument :
MSVOA_N
ClientSampleId :

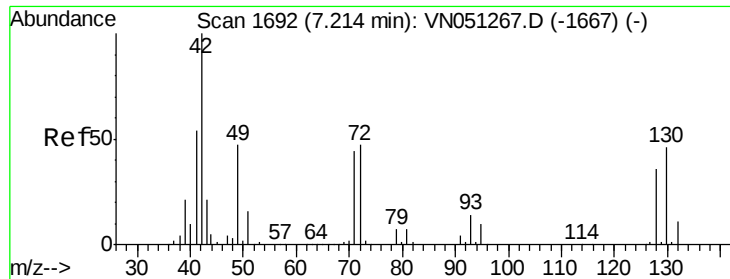
Tot Ion: 84 Resp: 31971
Ion Ratio Lower Upper
84 100
49 120.8 91.2 136.8
51 34.5 27.7 41.5
86 63.7 52.0 78.0



#25
2-Butanone
Concen: 1.94 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Tgt Ion: 43 Resp: 3617
Ion Ratio Lower Upper
43 100
72 30.9 23.4 35.0





#29

Tetrahydrofuran

Concen: 0.53 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051328.D

Acq: 19 Sep 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :

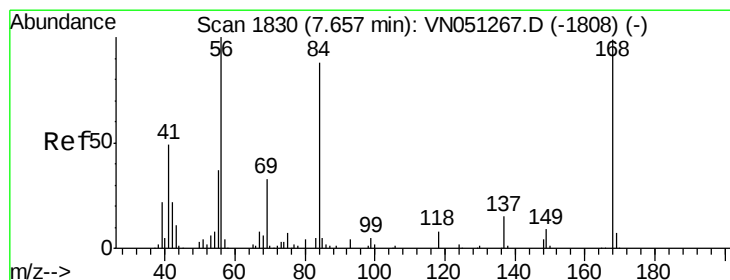
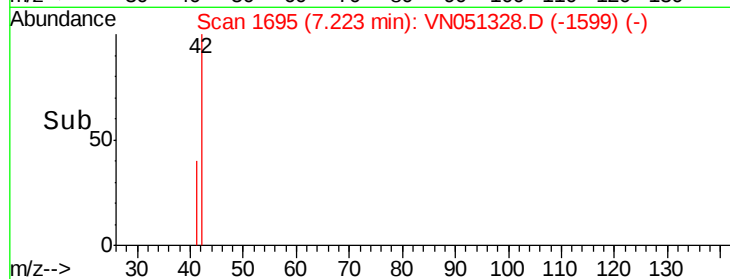
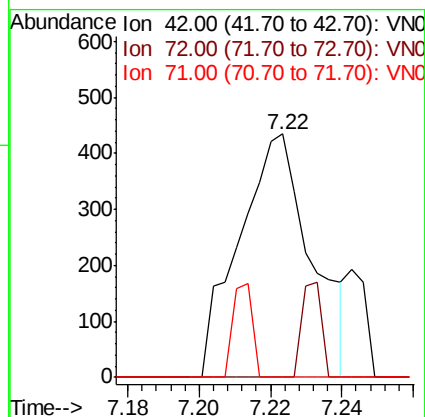
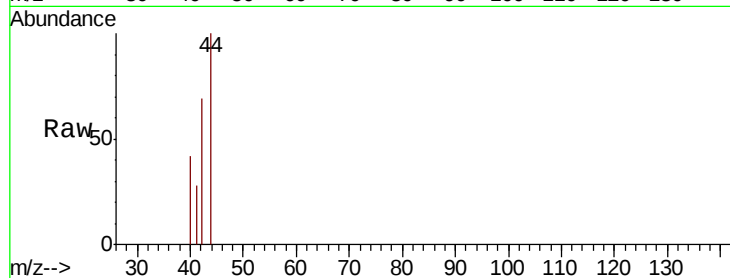
Tot Ion: 42 Resp: 608

Ion Ratio Lower Upper

42 100

72 10.5 37.6 56.4#

71 10.4 35.4 53.2#



#31

Cyclohexane

Concen: 0.83 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051328.D

Acq: 19 Sep 2018 18:56

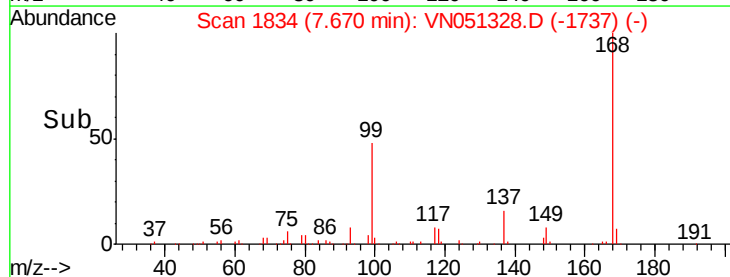
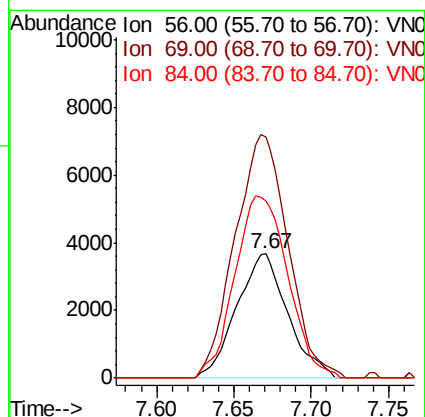
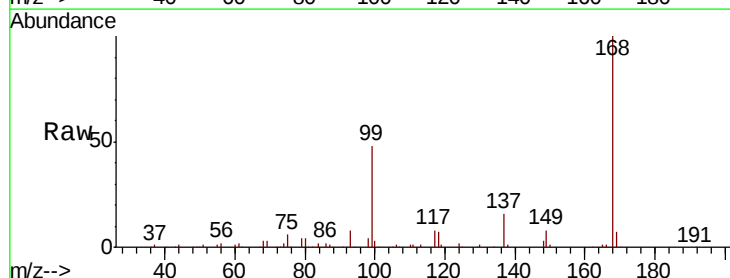
Tgt Ion: 56 Resp: 8435

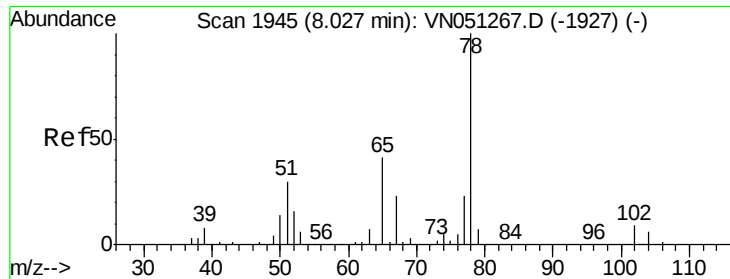
Ion Ratio Lower Upper

56 100

69 194.8 26.2 39.2#

84 142.4 70.6 106.0#

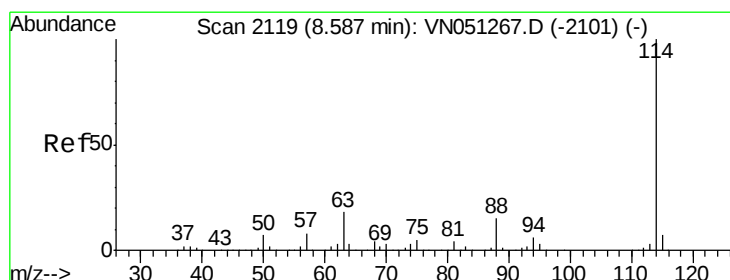
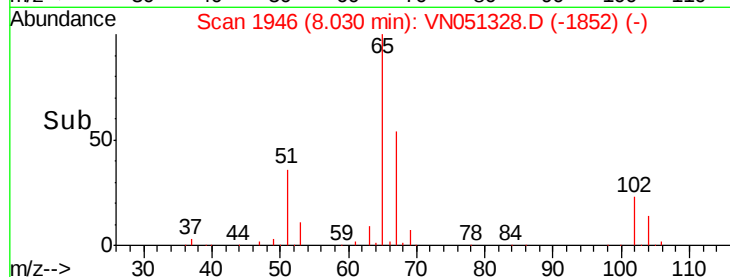
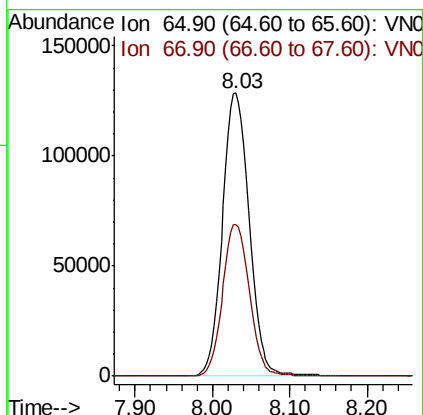
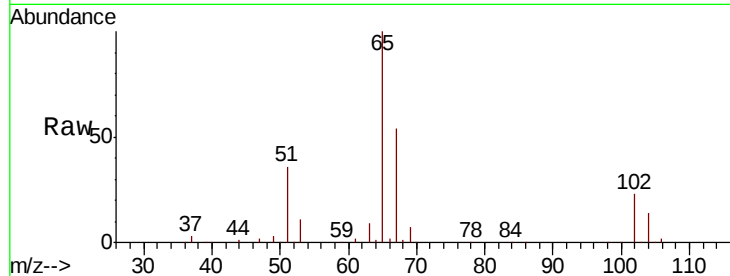




#33
 1,2-Dichloroethane-d4
 Concen: 53.10 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

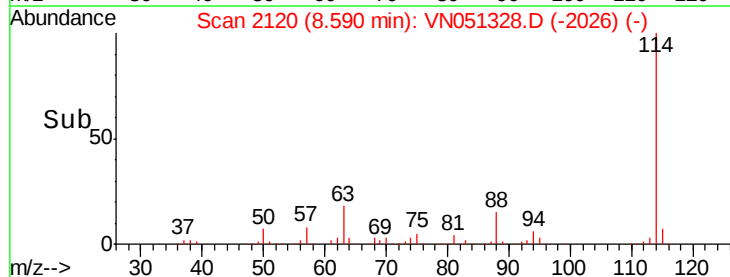
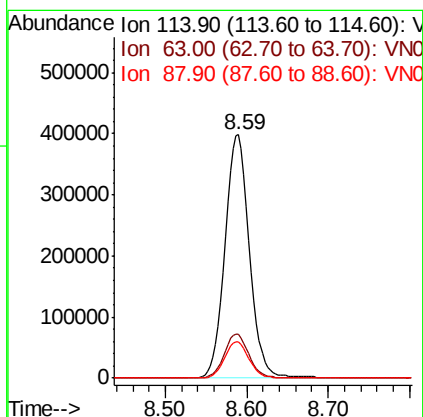
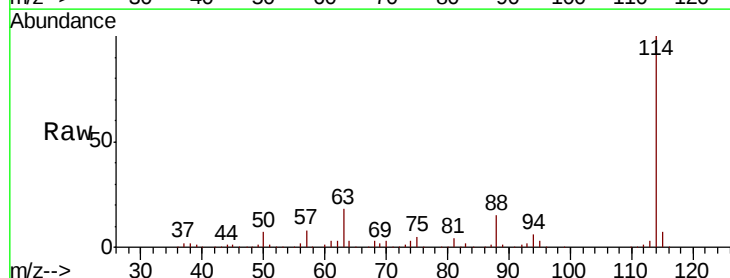
Instrument :
 MSVOA_N
 ClientSampled :

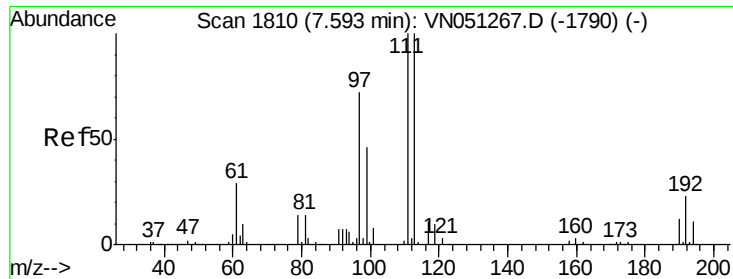
Tot Ion: 65 Resp: 309808
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

Tgt Ion: 114 Resp: 845634
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.8
 88 14.7 0.0 30.8

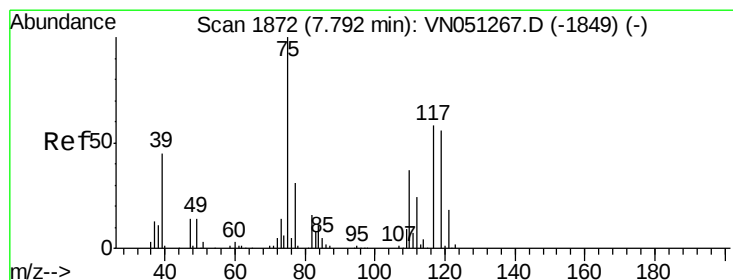
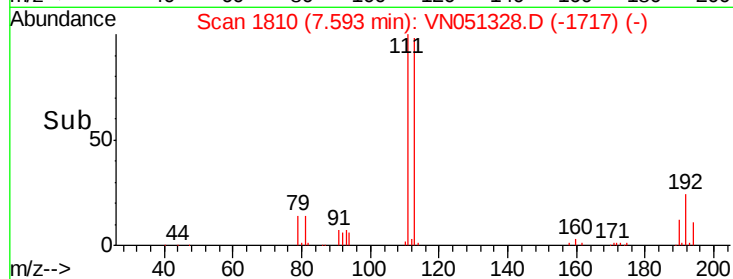
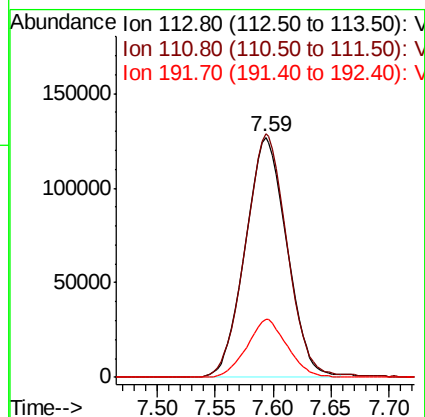
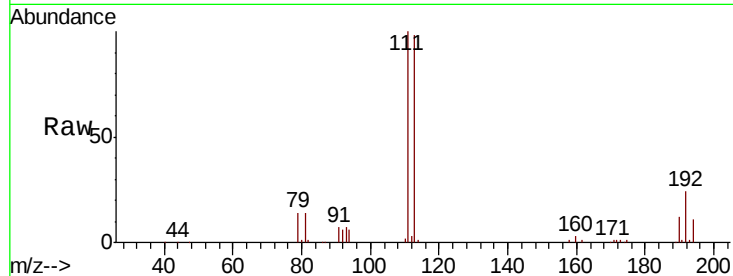




#35
 Dibromofluoromethane
 Concen: 48.16 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

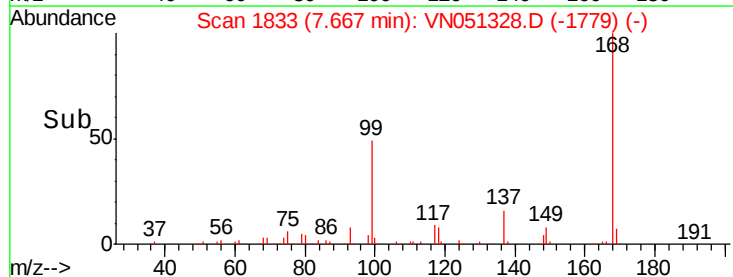
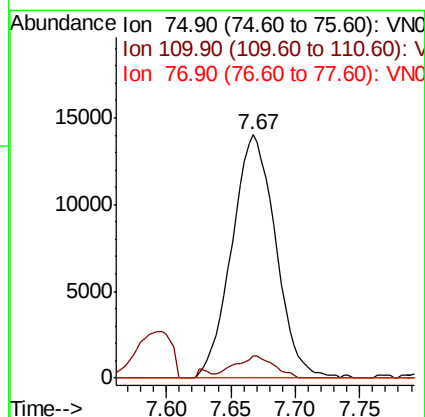
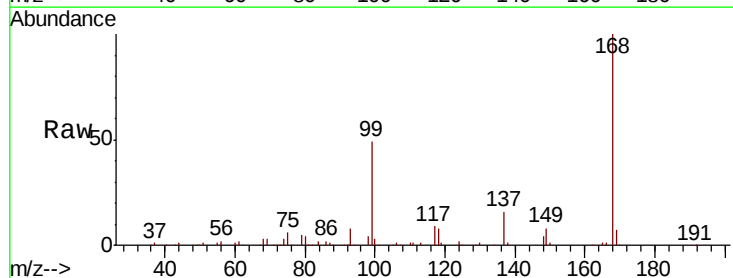
Instrument :
 MSVOA_N
 ClientSampleId :

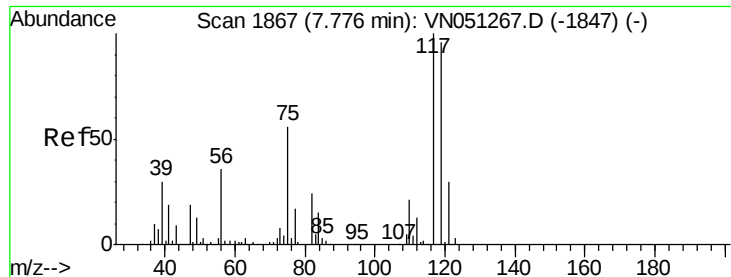
Tot Ion:113 Resp: 316492
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.2 123.4
 192 23.5 19.0 28.6



#36
 1,1-Dichloropropene
 Concen: 3.62 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

Tgt Ion: 75 Resp: 33122
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.6 56.0#
 77 0.0 24.7 37.1#

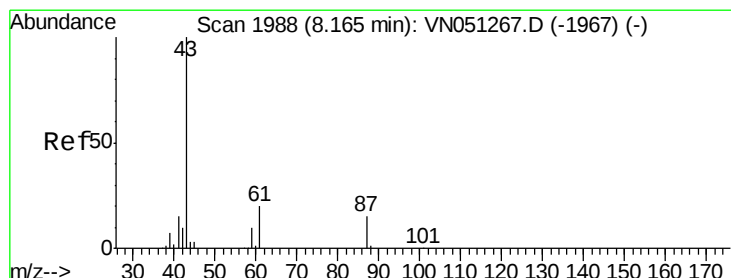
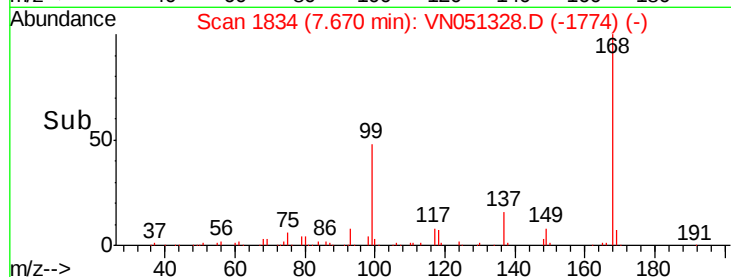
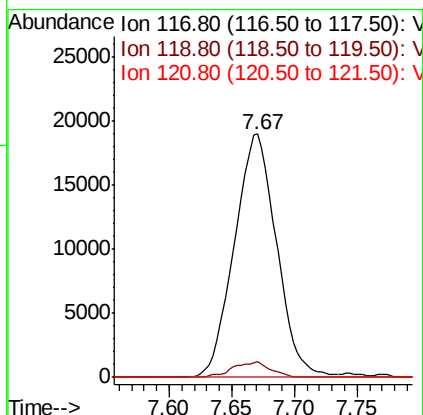
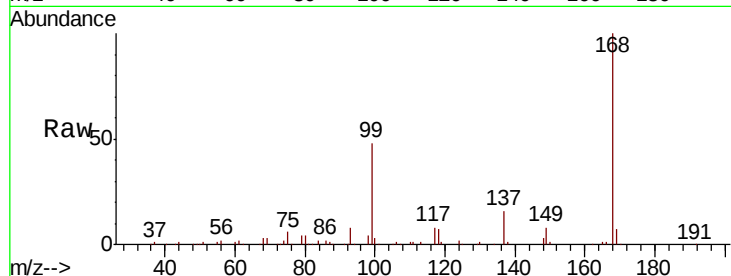




#38
Carbon Tetrachloride
Concen: 4.66 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

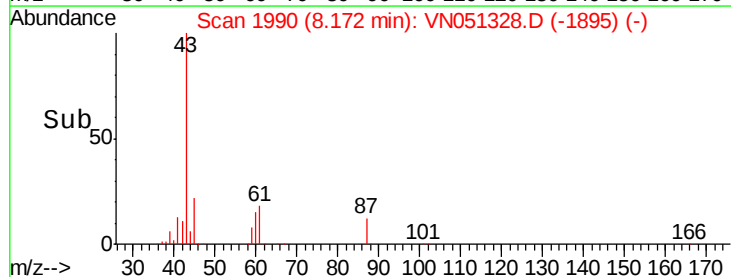
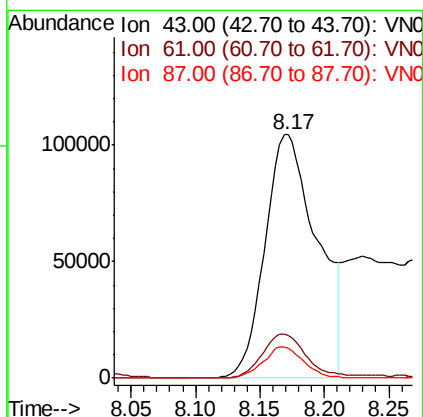
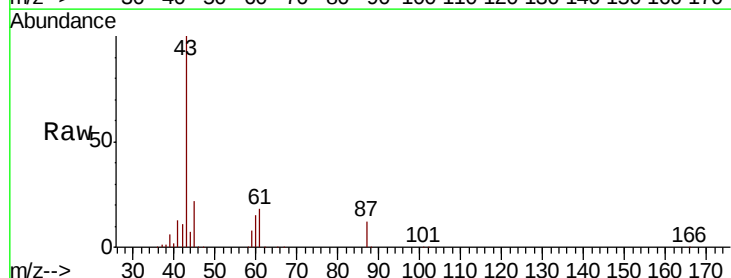
Instrument :
MSVOA_N
ClientSampled :

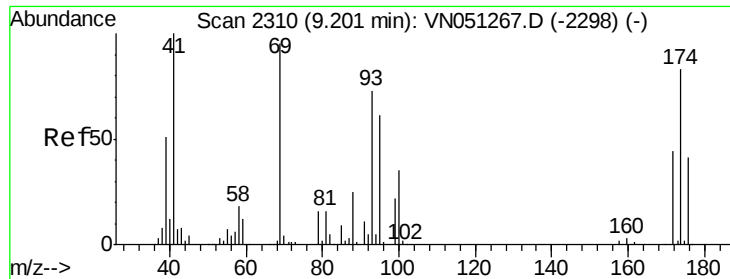
Tot Ion:117 Resp: 44459
Ion Ratio Lower Upper
117 100
119 6.2 76.8 115.2#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 36.20 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Tgt Ion: 43 Resp: 294782
Ion Ratio Lower Upper
43 100
61 15.4 17.4 26.2#
87 10.1 12.2 18.4#

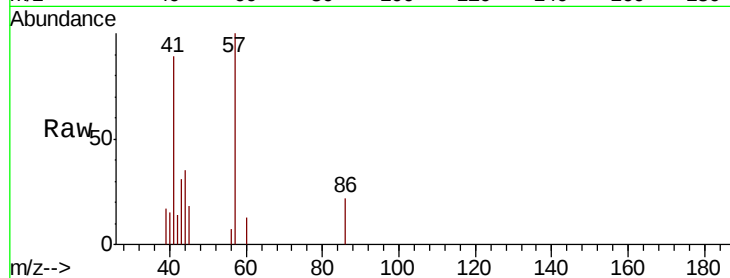




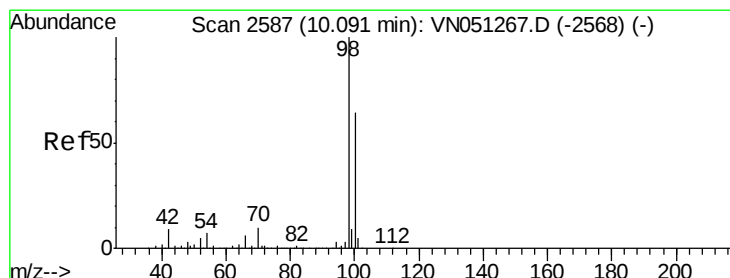
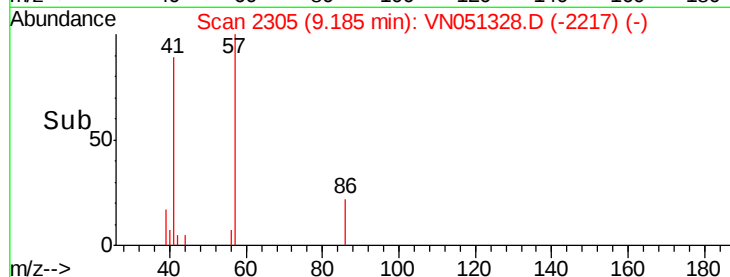
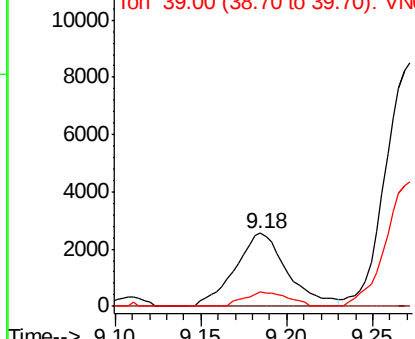
#48
Methyl methacrylate
Concen: 1.37 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 5390
Ion Ratio Lower Upper
41 100
69 0.0 78.9 118.3#
39 16.2 42.2 63.2#

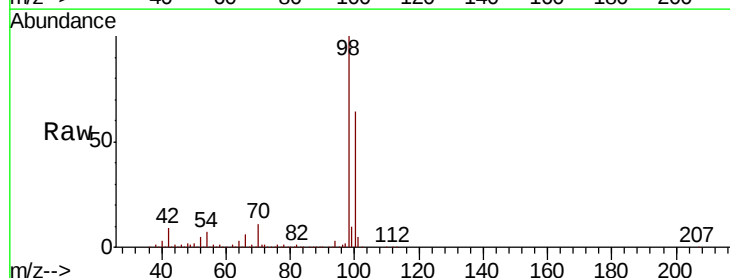


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

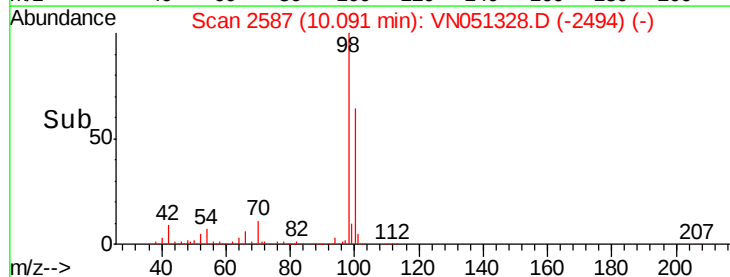
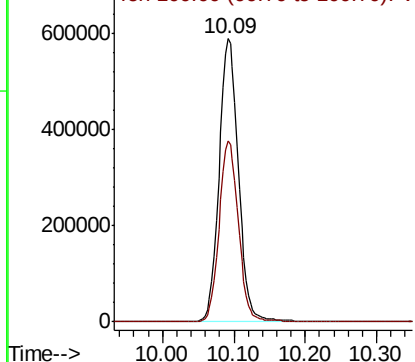


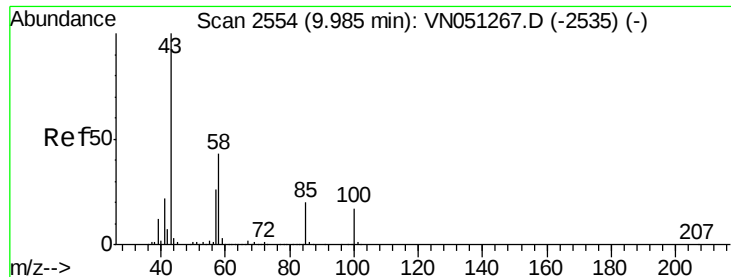
#50
Toluene-d8
Concen: 45.51 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Tgt Ion: 98 Resp: 1105502
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

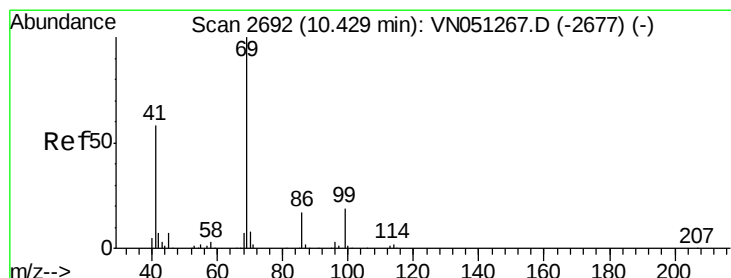
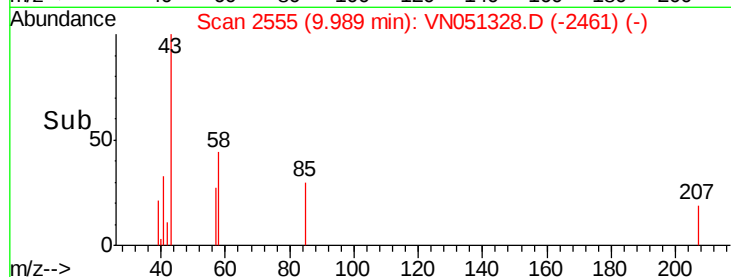
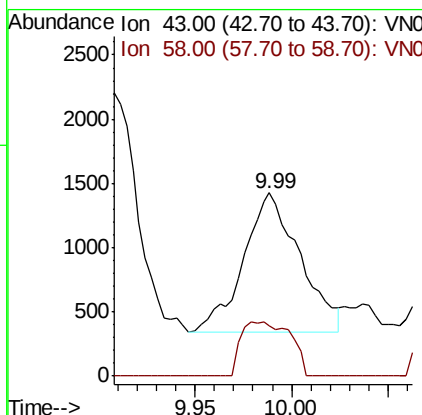
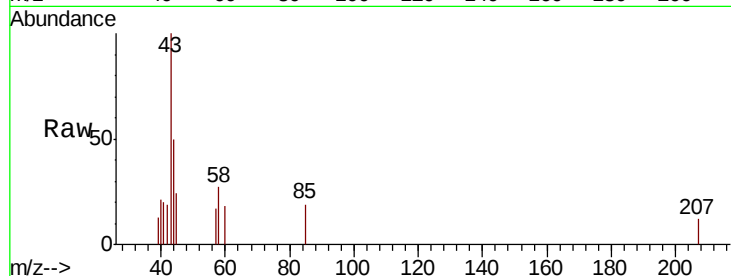




#51
 4-Methyl-2-Pentanone
 Concen: 0.52 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

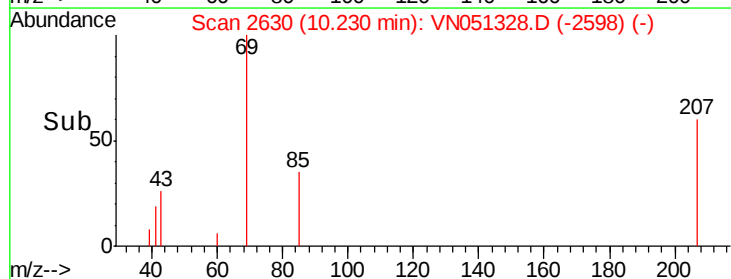
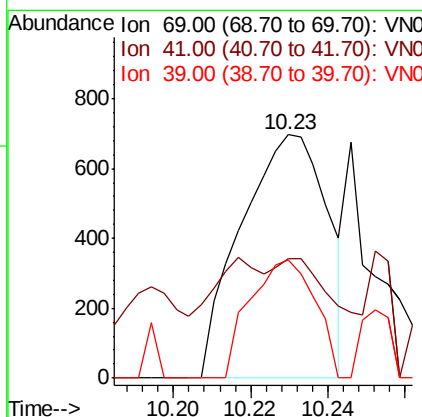
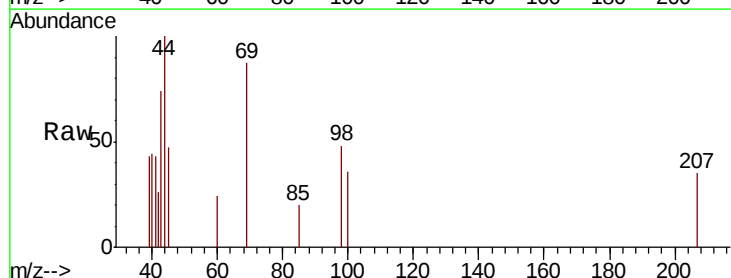
Instrument :
 MSVOA_N
 ClientSampled :

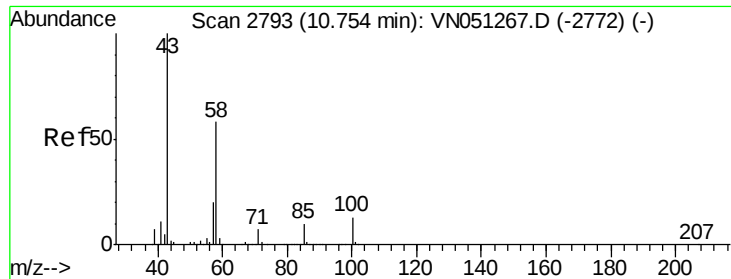
Tot Ion: 43 Resp: 2187
 Ion Ratio Lower Upper
 43 100
 58 34.1 33.8 50.6



#56
 Ethyl methacrylate
 Concen: 2.21 ug/l
 RT: 10.23 min Scan# 2630
 Delta R.T. -0.20 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

Tgt Ion: 69 Resp: 1082
 Ion Ratio Lower Upper
 69 100
 41 11.8 47.4 71.0#
 39 36.5 23.7 35.5#

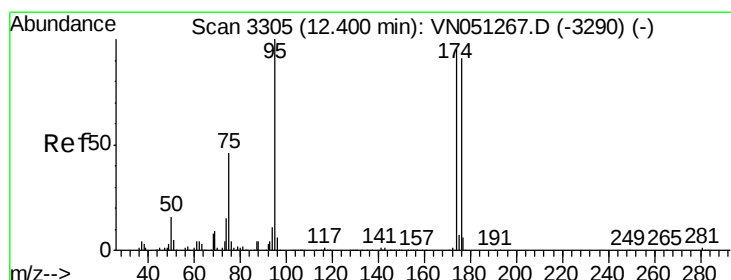
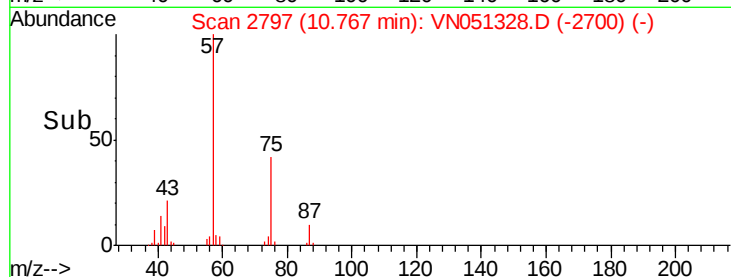
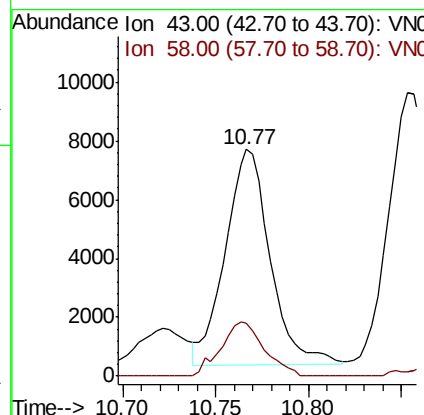
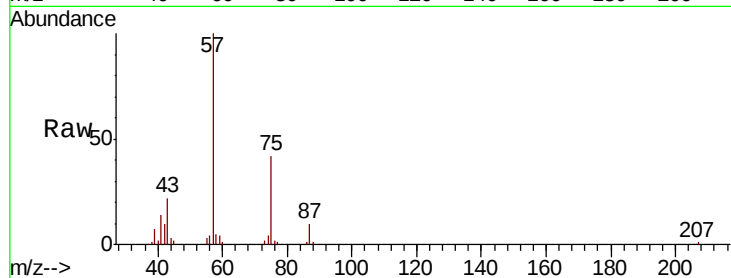




#59
2-Hexanone
Concen: 4.44 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

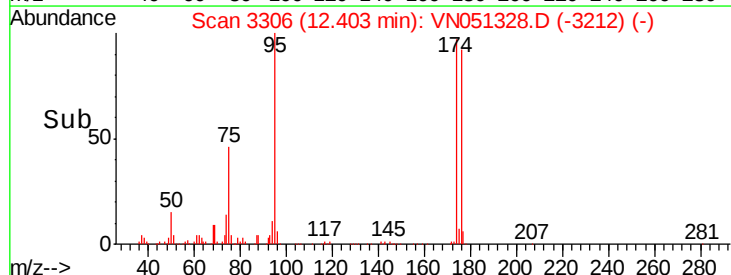
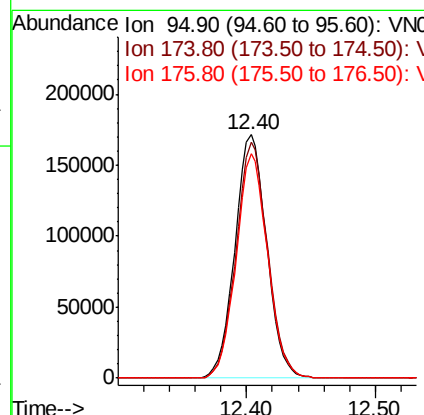
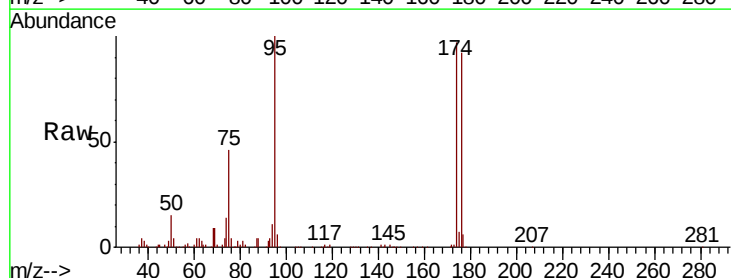
Instrument :
MSVOA_N
ClientSampled :

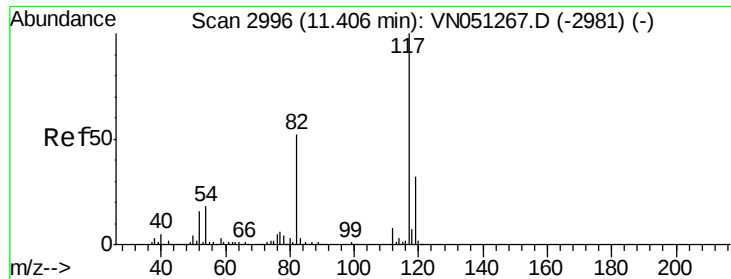
Tot Ion: 43 Resp: 12281
Ion Ratio Lower Upper
43 100
58 24.4 28.9 86.8#



#62
4-Bromofluorobenzene
Concen: 37.81 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Tgt Ion: 95 Resp: 292107
Ion Ratio Lower Upper
95 100
174 96.7 0.0 189.6
176 91.6 0.0 182.6

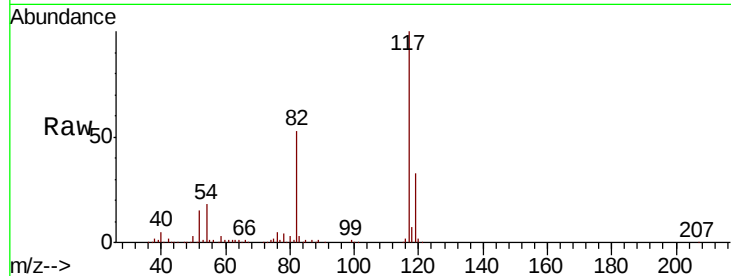




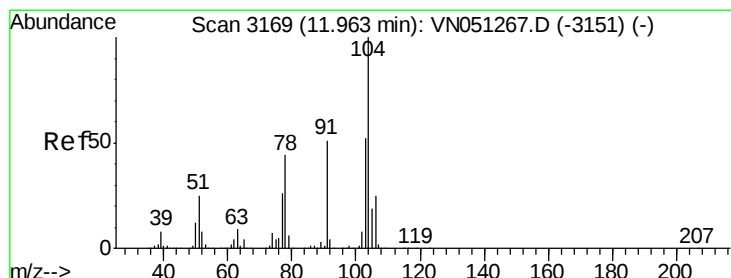
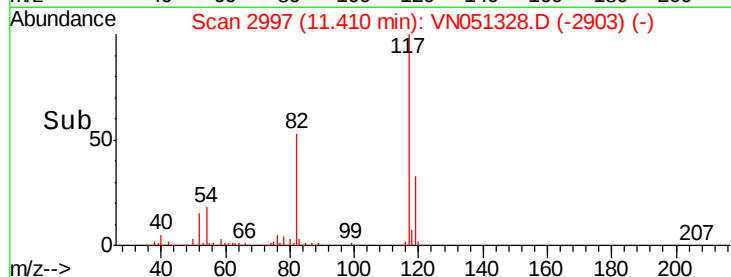
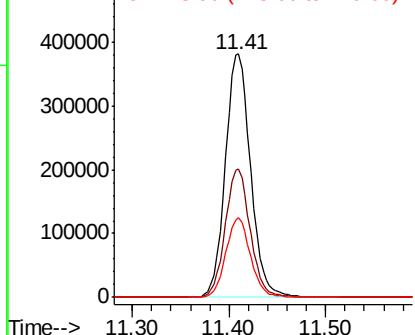
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 689196
Ion Ratio Lower Upper
117 100
82 52.7 41.8 62.8
119 32.7 25.6 38.4

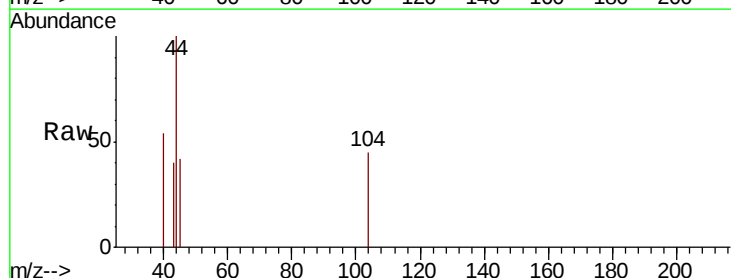


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

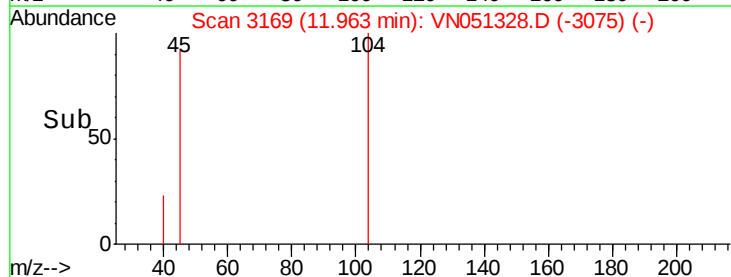
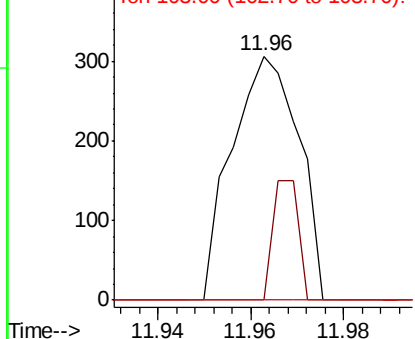


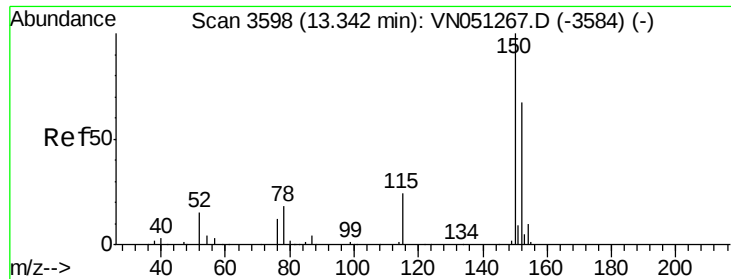
#70
Styrene
Concen: 1.26 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Tgt Ion:104 Resp: 308
Ion Ratio Lower Upper
104 100
78 18.8 38.1 57.1#
103 0.0 44.8 67.2#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051328.D

Acq: 19 Sep 2018 18:56

Instrument :

MSVOA_N

ClientSampled :

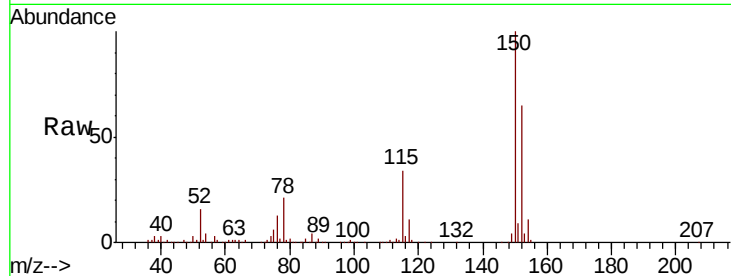
Tot Ion:152 Resp: 225382

Ion Ratio Lower Upper

152 100

115 53.8 27.1 81.2

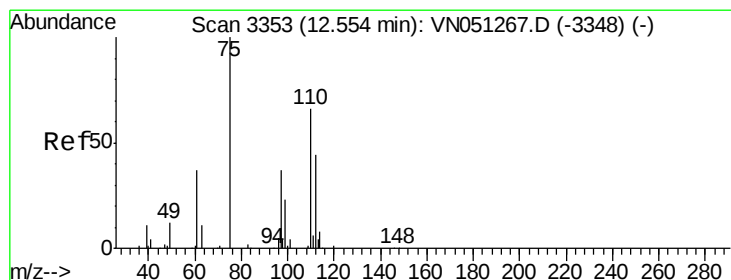
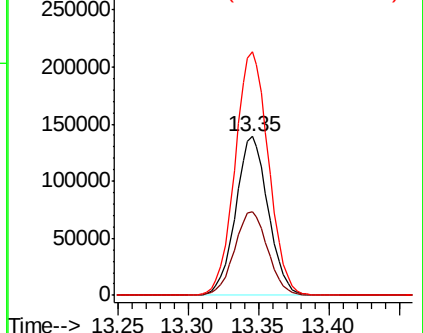
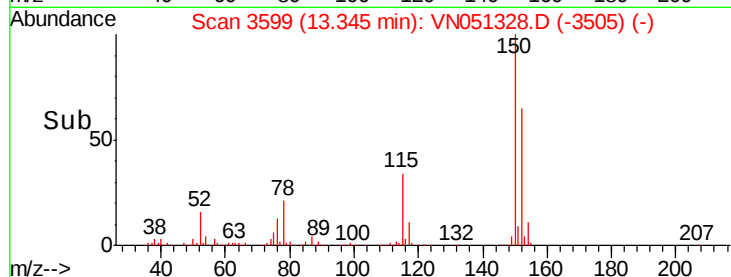
150 157.6 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 43.26 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051328.D

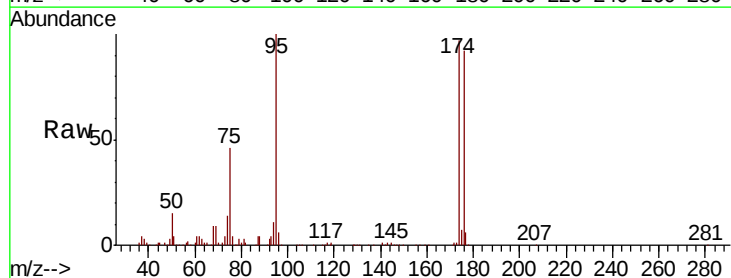
Acq: 19 Sep 2018 18:56

Tgt Ion: 75 Resp: 134449

Ion Ratio Lower Upper

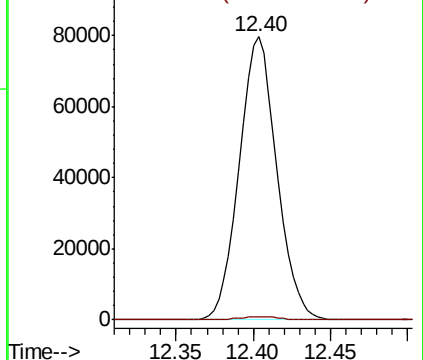
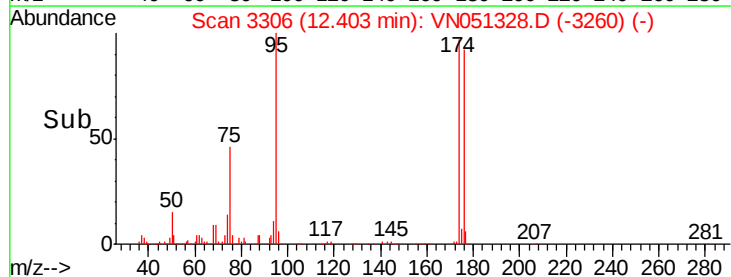
75 100

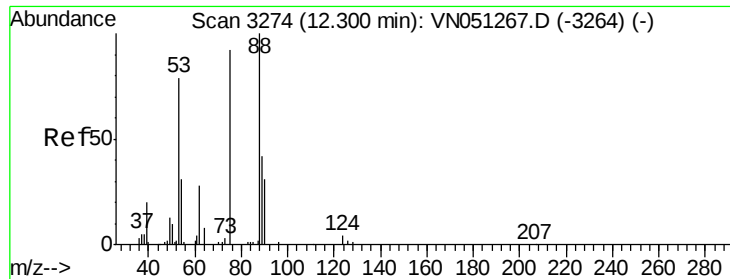
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

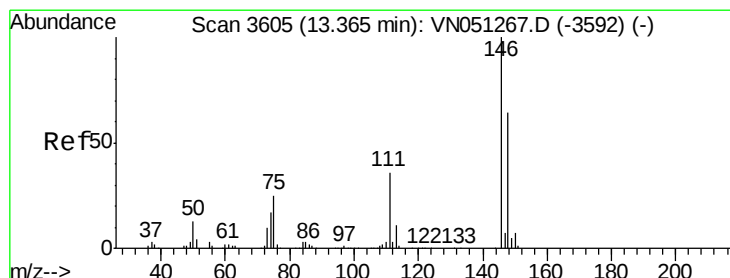
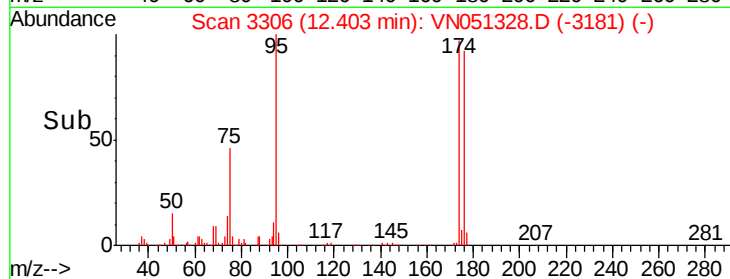
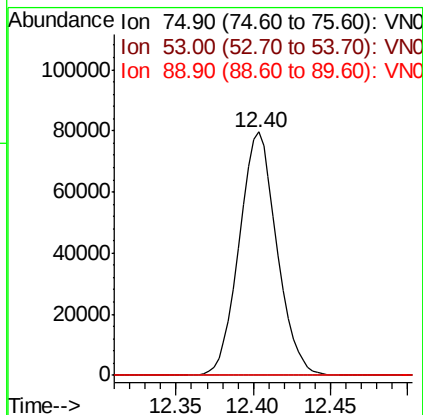
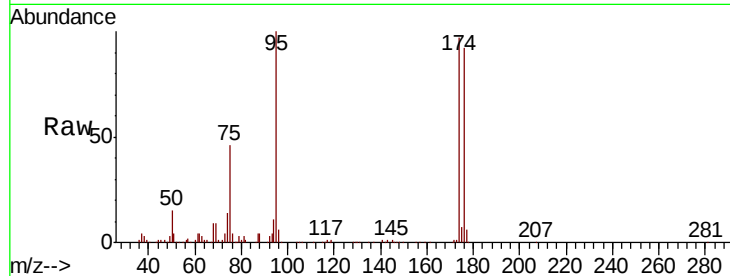




#81
trans-1,4-Dichloro-2-butene
Concen: 132.49 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

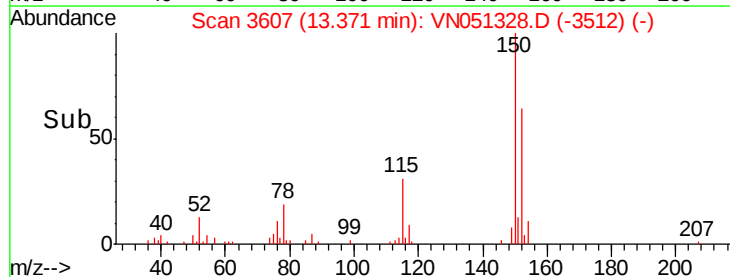
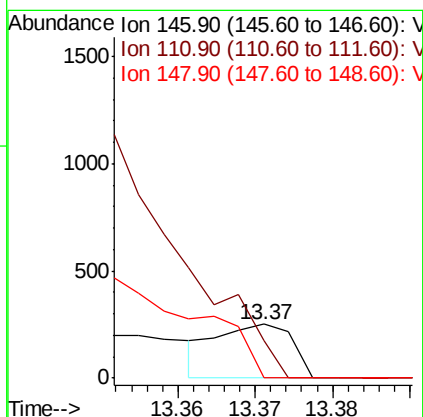
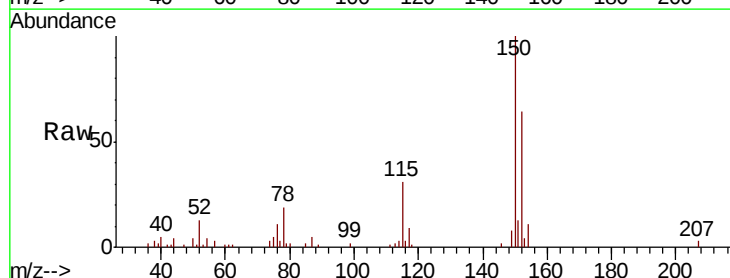
Instrument :
MSVOA_N
ClientSampled :

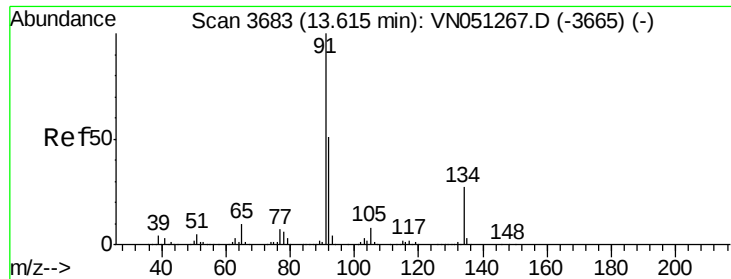
Tot Ion: 75 Resp: 134449
Ion Ratio Lower Upper
75 100
53 0.1 67.7 101.5#
89 0.0 36.9 55.3#



#88
1,4-Dichlorobenzene
Concen: 0.43 ug/l
RT: 13.37 min Scan# 3607
Delta R.T. 0.01 min
Lab File: VN051328.D
Acq: 19 Sep 2018 18:56

Tgt Ion: 146 Resp: 169
Ion Ratio Lower Upper
146 100
111 0.0 18.2 54.6#
148 0.0 31.9 95.7#

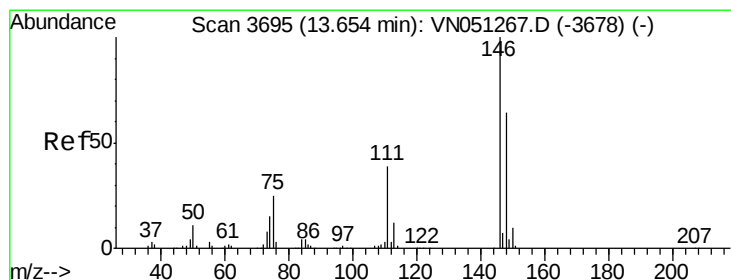
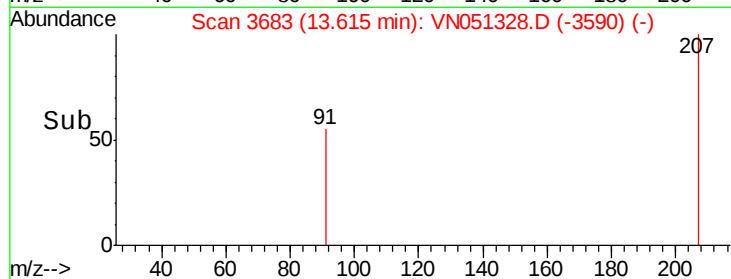
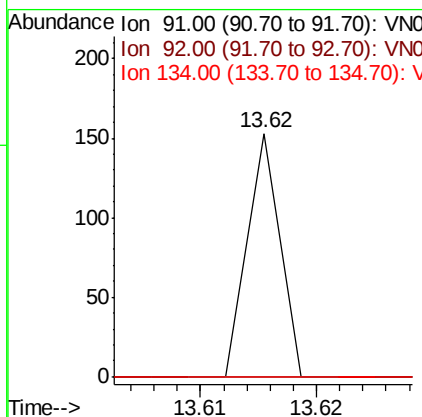
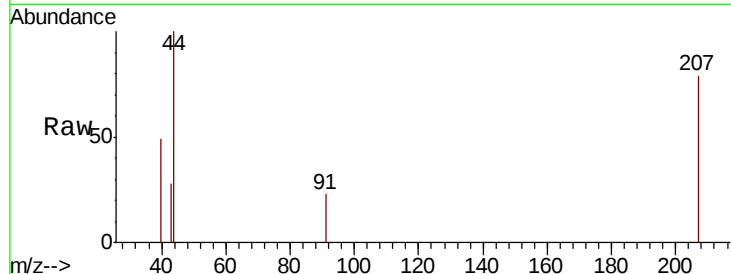




#89
 n-Butylbenzene
 Concen: 2.02 ug/l
 RT: 13.62 min Scan# 3683
 Delta R.T. 0.00 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

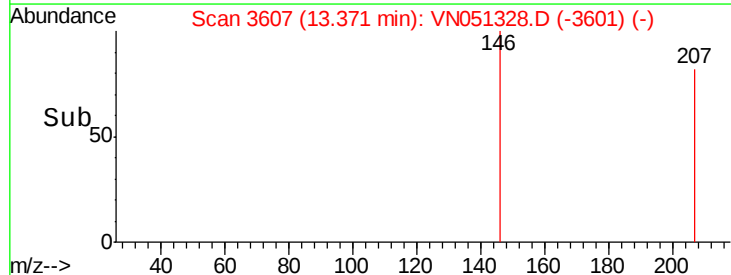
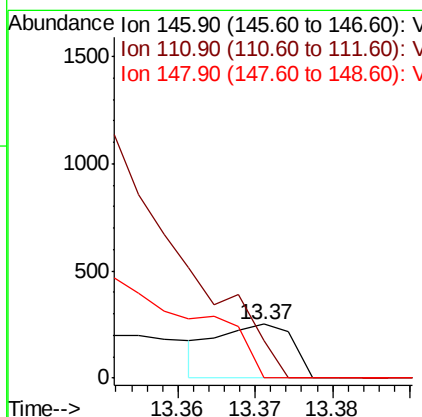
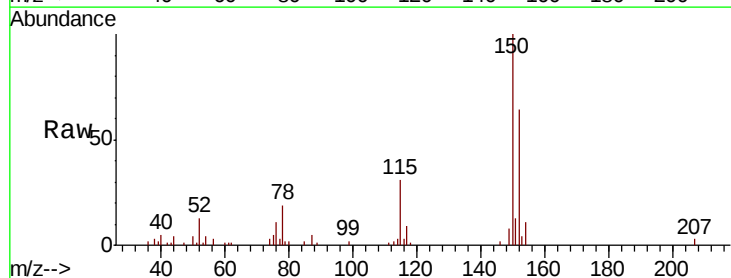
Instrument :
 MSVOA_N
 ClientSampleId :

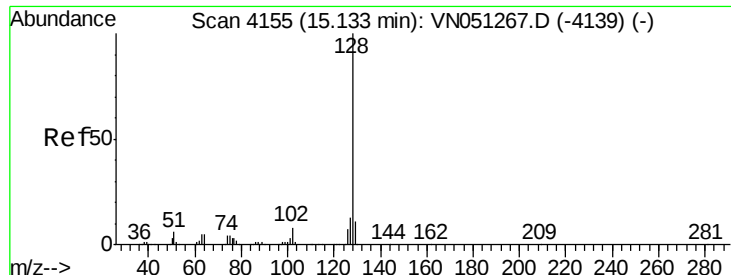
Tot Ion: 91 Resp: 29
 Ion Ratio Lower Upper
 91 100
 92 0.0 25.8 77.4#
 134 0.0 13.7 41.0#



#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.37 min Scan# 3607
 Delta R.T. -0.28 min
 Lab File: VN051328.D
 Acq: 19 Sep 2018 18:56

Tgt Ion: 146 Resp: 169
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.6 58.7#
 148 0.0 31.9 95.9#





#95

Naphthalene

Concen: 5.95 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

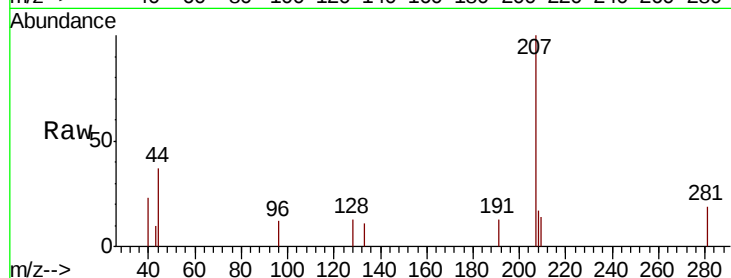
Lab File: VN051328.D

Acq: 19 Sep 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :



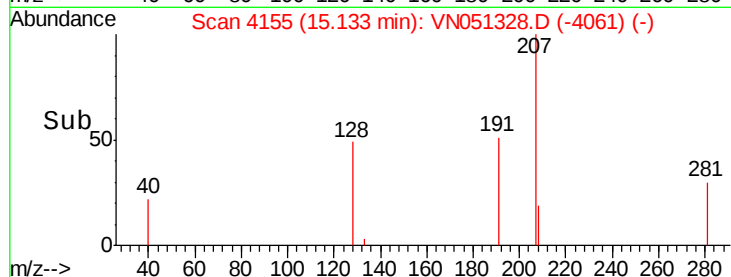
Tot Ion:128 Resp: 179

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.9 13.3#



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

