

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049874.D
 Acq On : 18 Jul 2018 15:53
 Operator : MD\SY
 Sample : PB111206ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 01:19:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	577929	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	945832	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	803889	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	296714	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	405641	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
35) Dibromofluoromethane	7.59	113	361198	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
50) Toluene-d8	10.09	98	1281857	44.31	ug/l	0.00
Spiked Amount			Recovery	=	88.62%	
62) 4-Bromofluorobenzene	12.40	95	352974	35.43	ug/l	0.00
Spiked Amount			Recovery	=	70.86%	

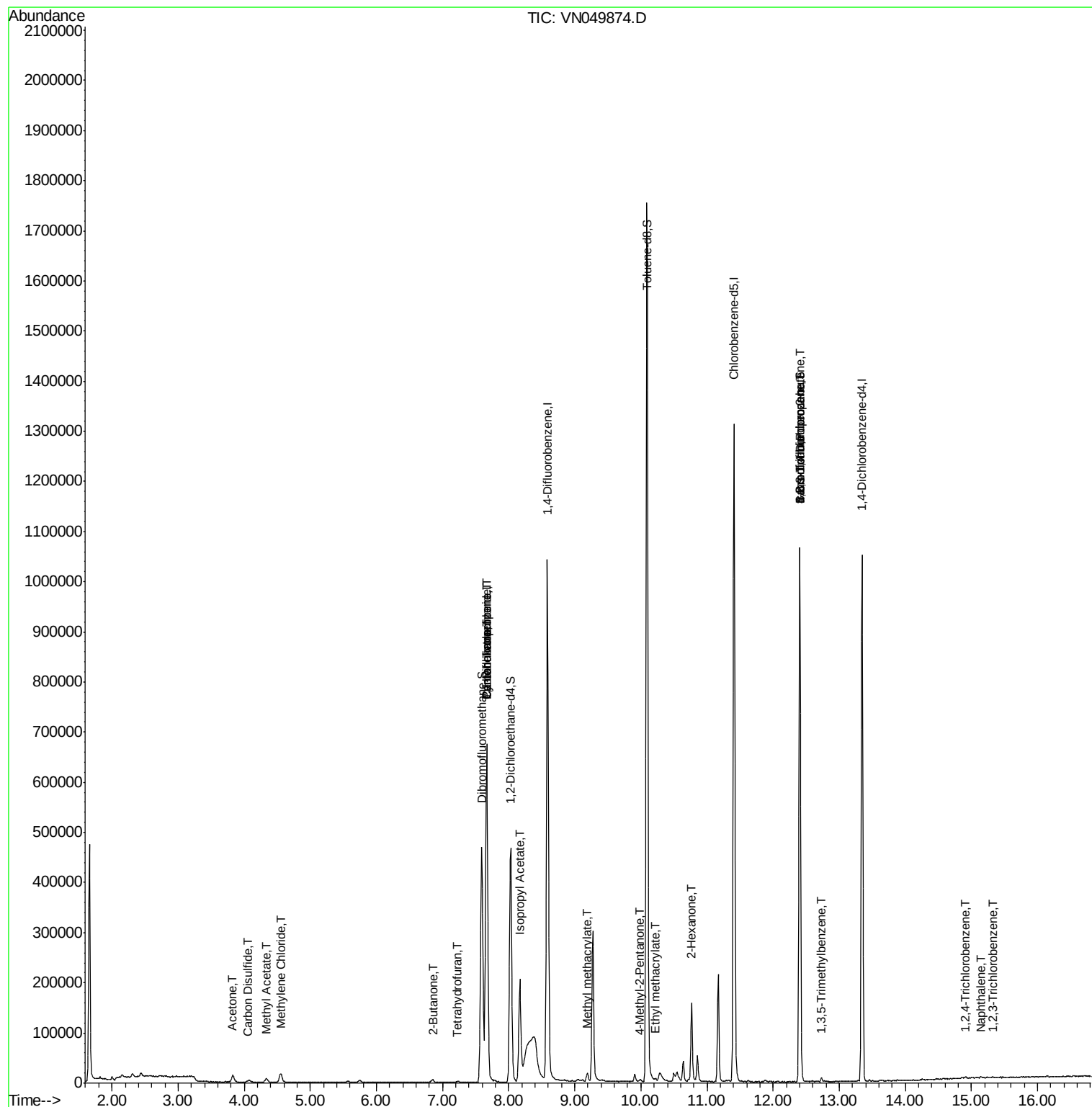
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	119	Below Cal	#	44
5) Bromomethane	2.57	94	904	Below Cal	#	52
16) Acetone	3.82	43	24451	11.89	ug/l	100
17) Carbon Disulfide	4.05	76	5208	0.28	ug/l #	75
18) Methyl Acetate	4.34	43	12715	1.16	ug/l	100
20) Methylene Chloride	4.55	84	13209	1.69	ug/l	99
25) 2-Butanone	6.86	43	5247	1.79	ug/l	93
29) Tetrahydrofuran	7.22	42	1563	0.84	ug/l #	36
31) Cyclohexane	7.66	56	11236	1.06	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41344	3.93	ug/l #	49
38) Carbon Tetrachloride	7.67	117	52782	4.69	ug/l #	17
43) Isopropyl Acetate	8.17	43	248199	19.67	ug/l	99
48) Methyl methacrylate	9.18	41	9404	1.49	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	3037	0.43	ug/l	98
56) Ethyl methacrylate	10.23	69	2723	2.40	ug/l #	67
59) 2-Hexanone	10.77	43	21577	4.55	ug/l #	58
71) Bromoform	12.40	173	2724	0.49	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	173041	31.09	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4019	0.22	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	173041	97.21	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	1109	3.65	ug/l #	89
95) Naphthalene	15.14	128	2128	4.63	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.32	180	1092	0.21	ug/l	77

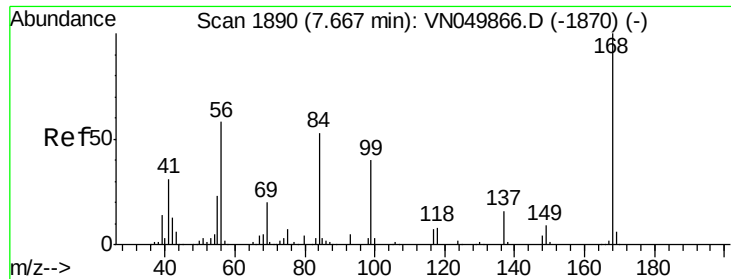
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 13:09:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

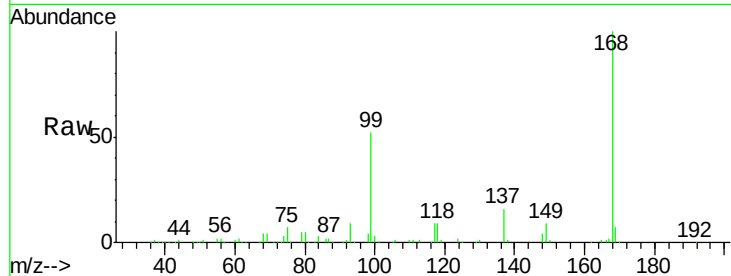
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 577929

Ion Ratio Lower Upper

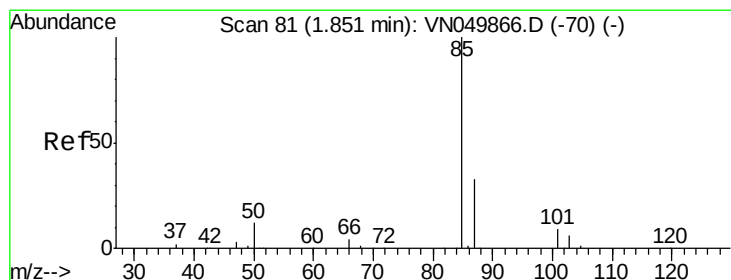
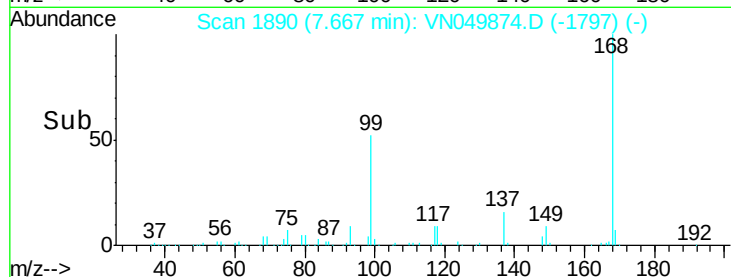
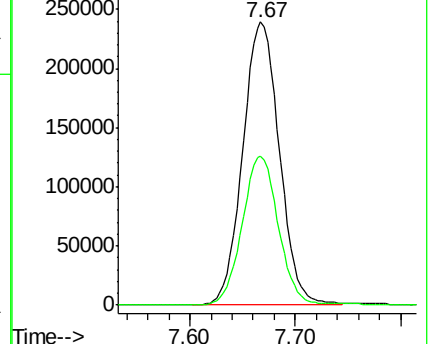
168 100

99 52.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN049874.D

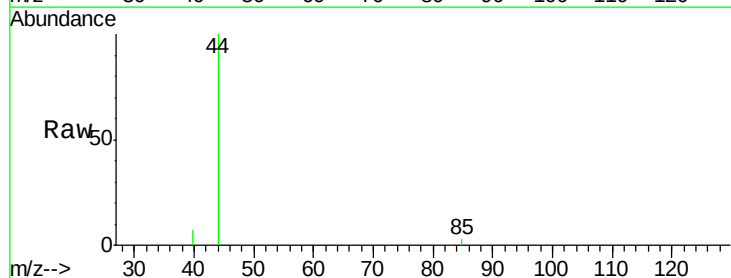
Acq: 18 Jul 2018 15:53

Tgt Ion: 85 Resp: 119

Ion Ratio Lower Upper

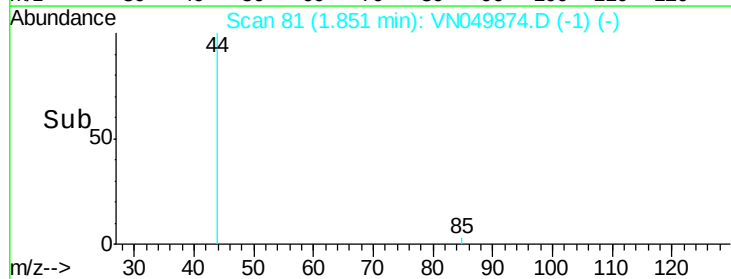
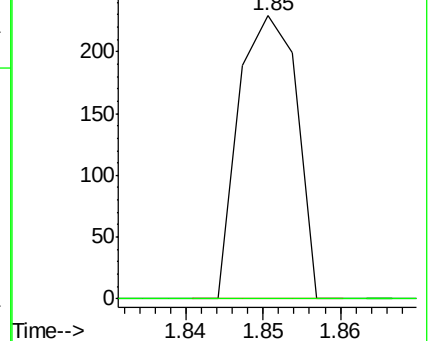
85 100

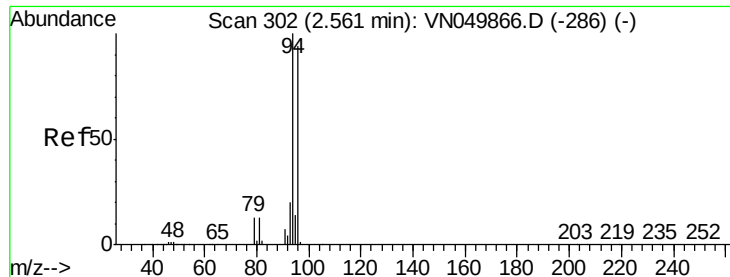
87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :

MSVOA_N

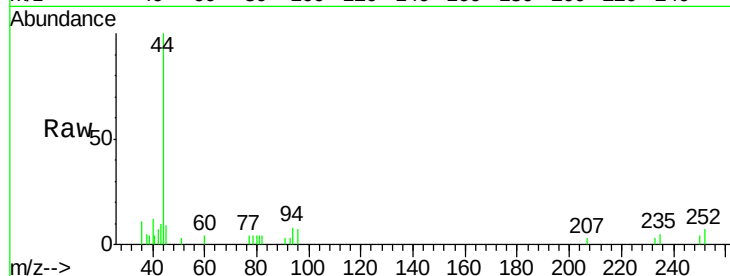
ClientSampled :

Tot Ion: 94 Resp: 904

Ion Ratio Lower Upper

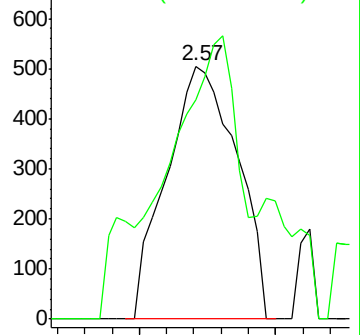
94 100

96 48.1 75.7 113.5#

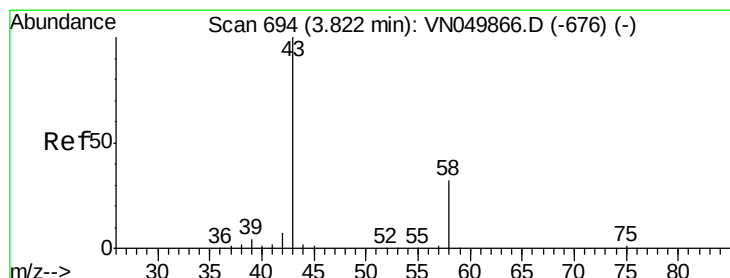
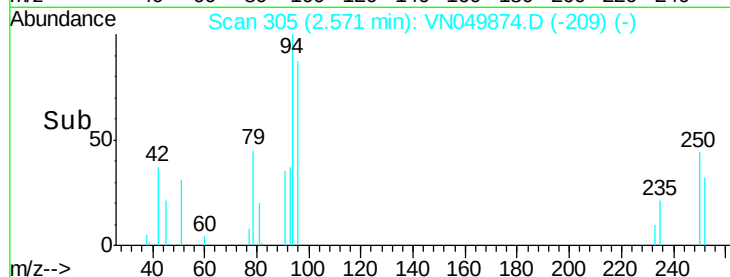


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



#16

Acetone

Concen: 11.89 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049874.D

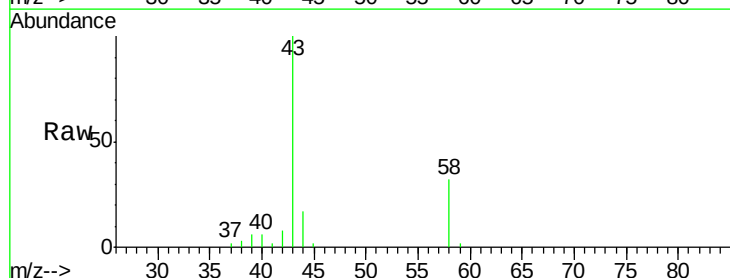
Acq: 18 Jul 2018 15:53

Tgt Ion: 43 Resp: 24451

Ion Ratio Lower Upper

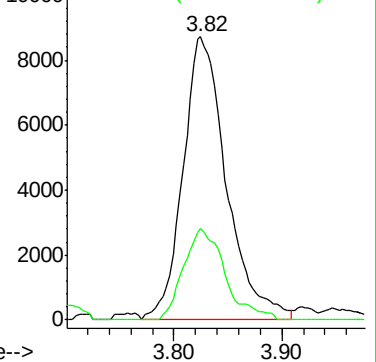
43 100

58 32.2 25.9 38.9

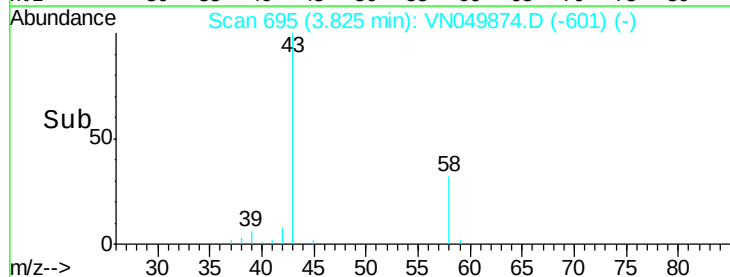


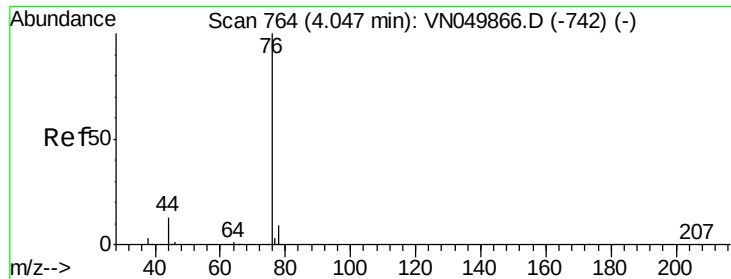
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#17

Carbon Disulfide

Concen: 0.28 ug/l

RT: 4.05 min Scan# 764

Delta R.T. 0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :

MSVOA_N

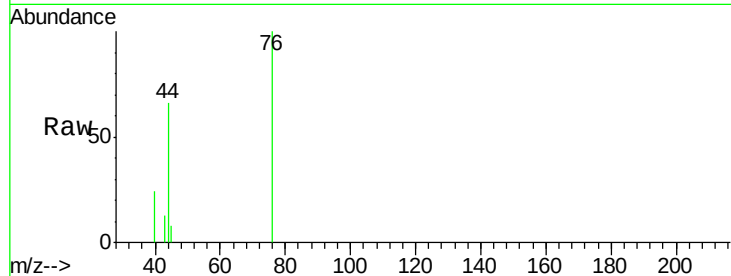
ClientSampleId :

Tot Ion: 76 Resp: 5208

Ion Ratio Lower Upper

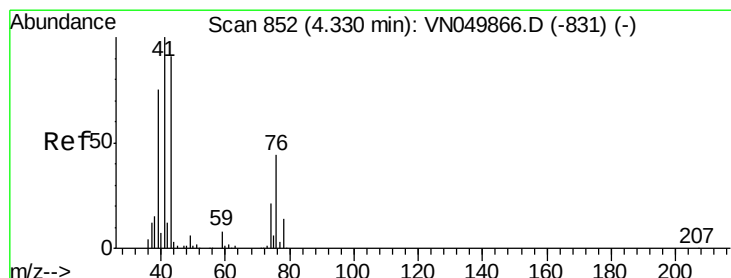
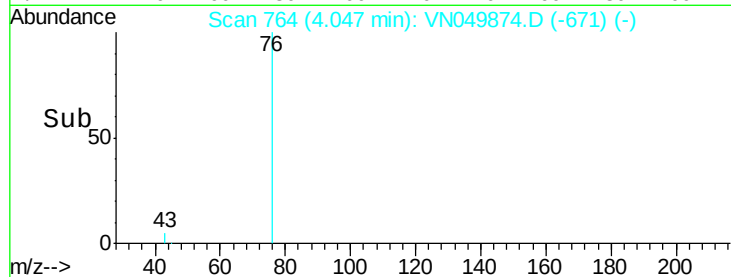
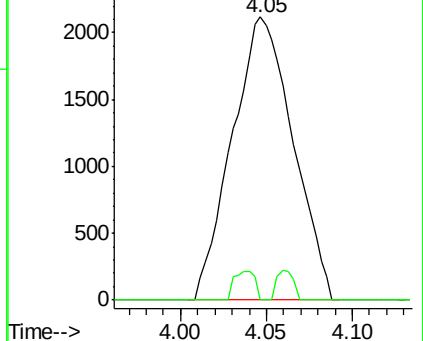
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.16 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049874.D

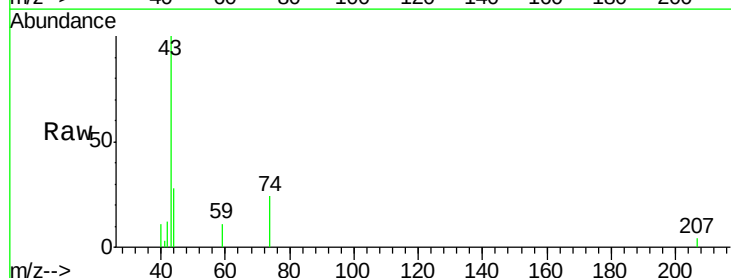
Acq: 18 Jul 2018 15:53

Tgt Ion: 43 Resp: 12715

Ion Ratio Lower Upper

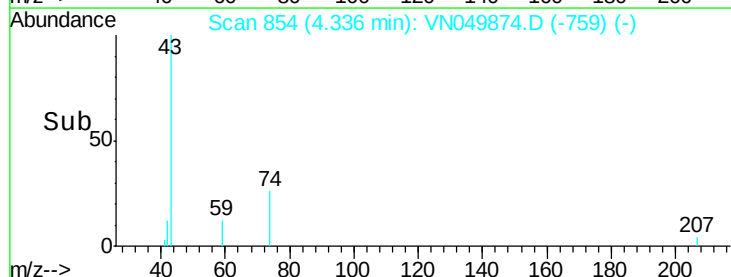
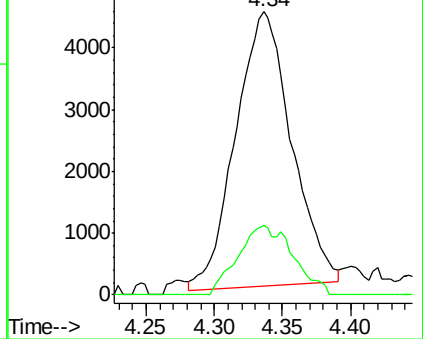
43 100

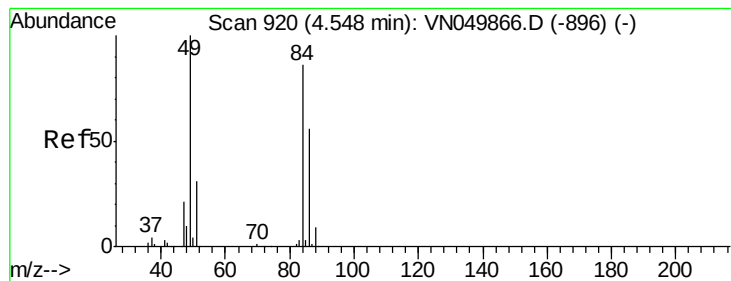
74 24.7 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 1.69 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 13209

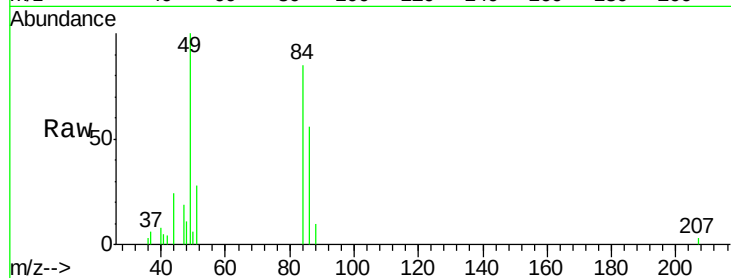
Ion Ratio Lower Upper

84 100

49 118.3 95.4 143.2

51 33.4 28.4 42.6

86 66.3 52.6 79.0

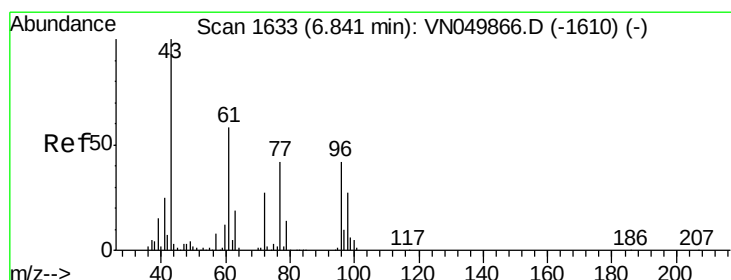
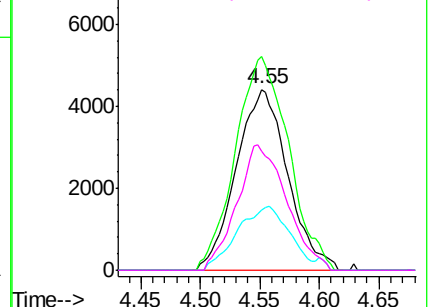
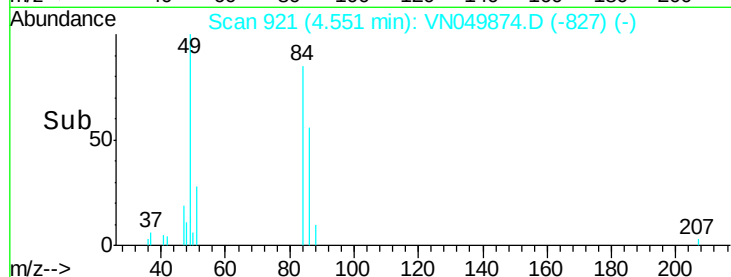


Abundance Ion 83.90 (83.60 to 84.60): VN049866.D (-896) (-)

Ion 48.90 (48.60 to 49.60): VN049866.D (-896) (-)

Ion 50.90 (50.60 to 51.60): VN049866.D (-896) (-)

Ion 85.90 (85.60 to 86.60): VN049866.D (-896) (-)



#25

2-Butanone

Concen: 1.79 ug/l

RT: 6.86 min Scan# 1639

Delta R.T. 0.02 min

Lab File: VN049874.D

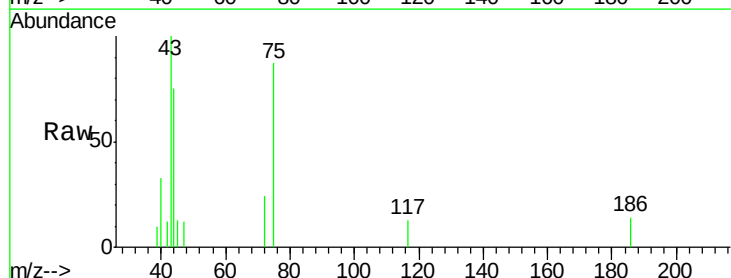
Acq: 18 Jul 2018 15:53

Tgt Ion: 43 Resp: 5247

Ion Ratio Lower Upper

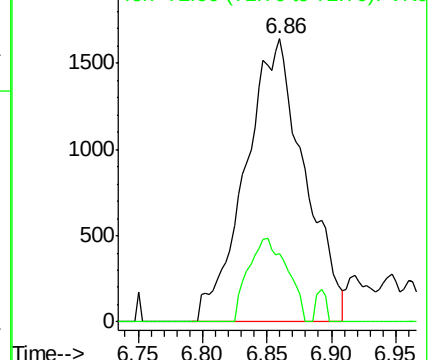
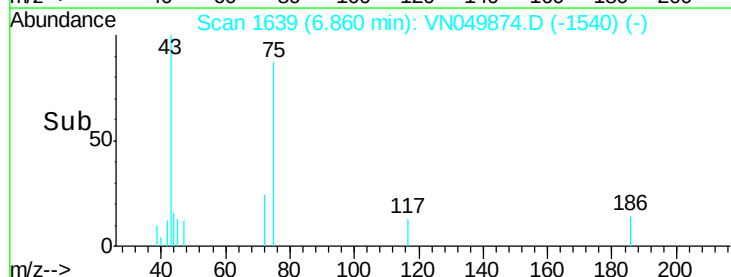
43 100

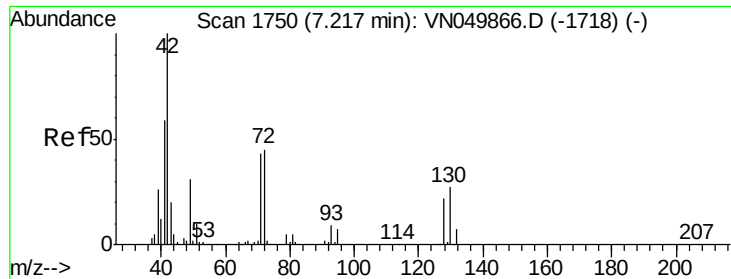
72 24.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-1610) (-)

Ion 72.00 (71.70 to 72.70): VN049866.D (-1610) (-)

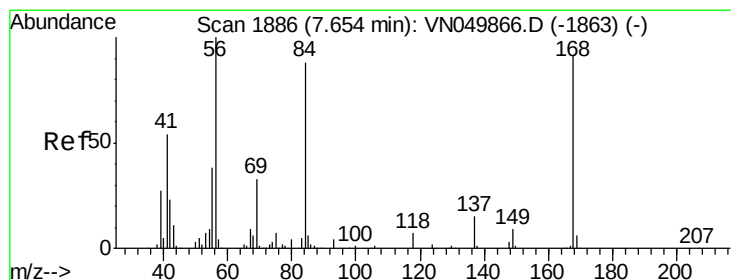
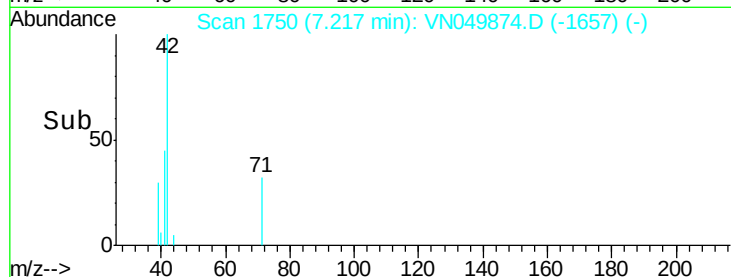
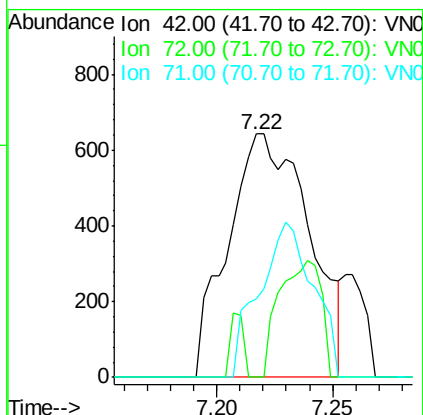
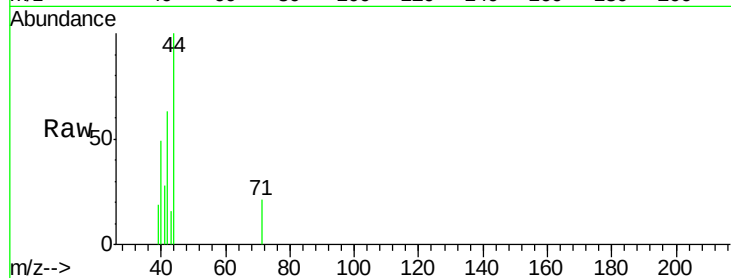




#29
Tetrahydrofuran
Concen: 0.84 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

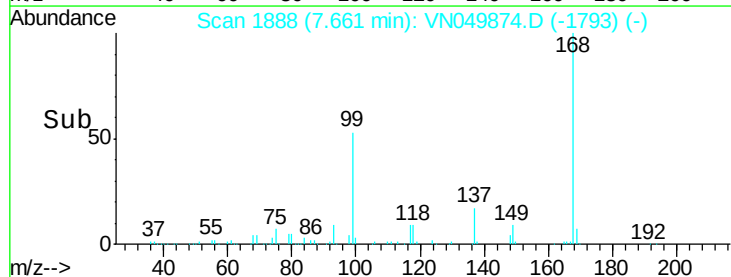
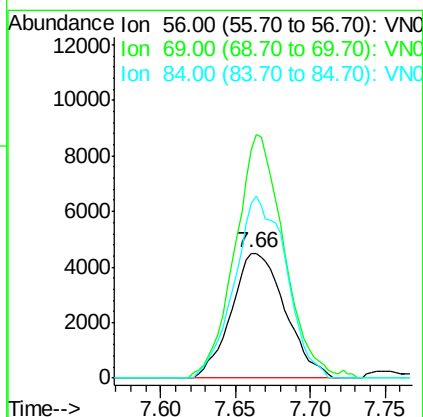
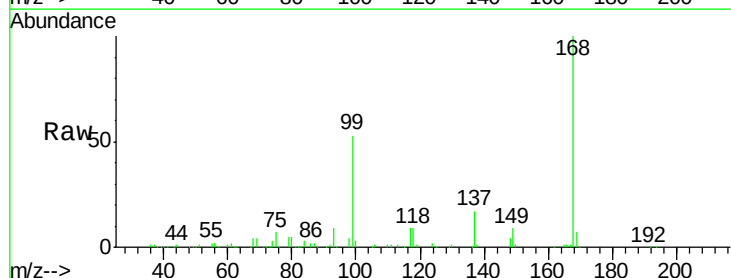
Instrument :
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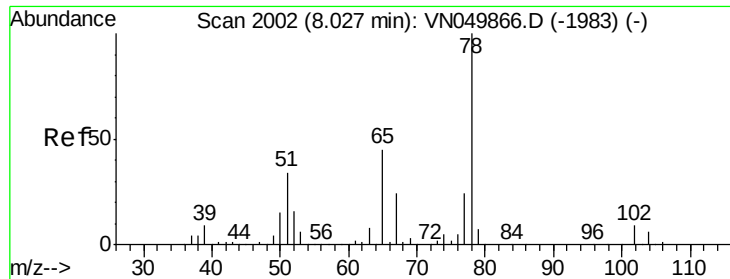
Tot Ion: 42 Resp: 1563
Ion Ratio Lower Upper
42 100
72 4.2 35.6 53.4#
71 0.0 34.0 51.0#



#31
Cyclohexane
Concen: 1.06 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

Tgt Ion: 56 Resp: 11236
Ion Ratio Lower Upper
56 100
69 182.2 26.6 40.0#
84 140.1 69.0 103.6#

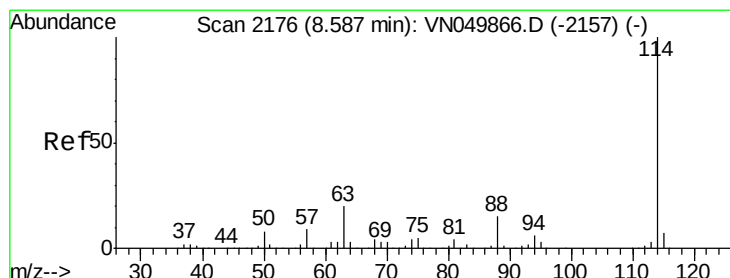
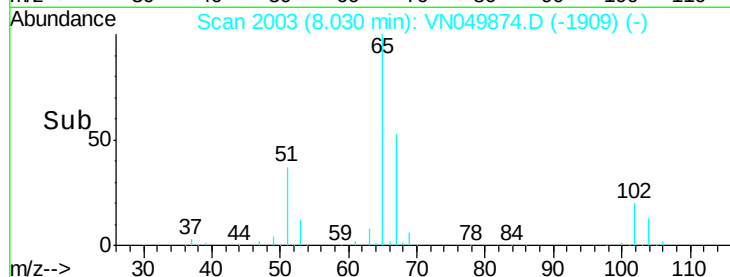
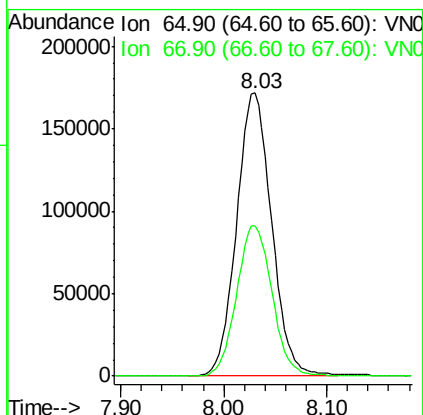
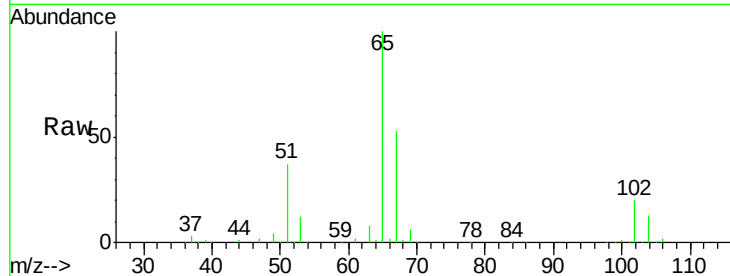




#33
 1,2-Dichloroethane-d4
 Concen: 51.07 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049874.D
 Acq: 18 Jul 2018 15:53

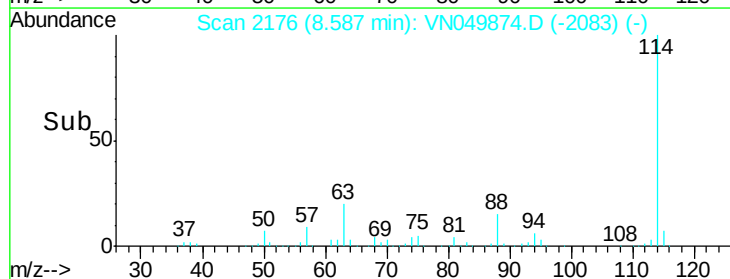
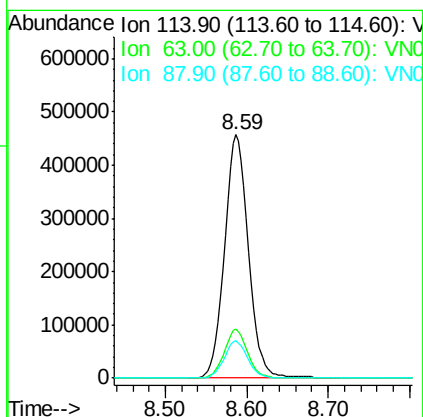
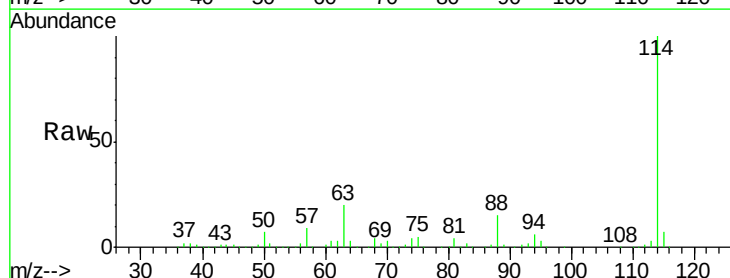
Instrument :
 MSVOA_N
 ClientSampled :

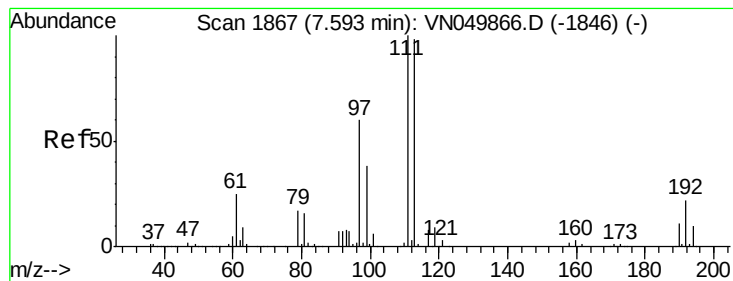
Tot Ion: 65 Resp: 405641
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049874.D
 Acq: 18 Jul 2018 15:53

Tgt Ion: 114 Resp: 945832
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.8
 88 15.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 45.49 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :
MSVOA_N
ClientSampled :

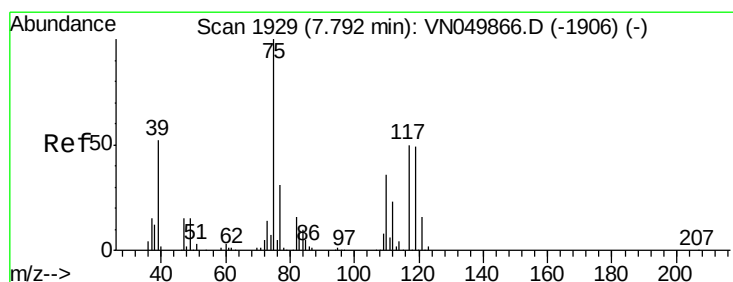
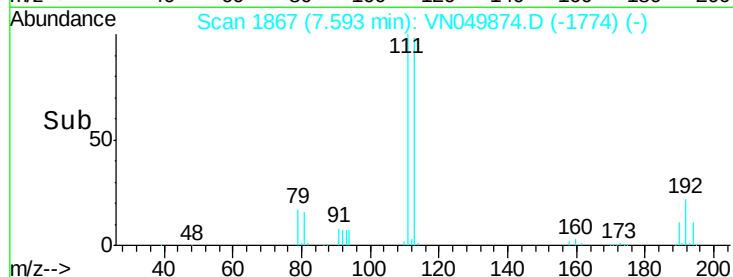
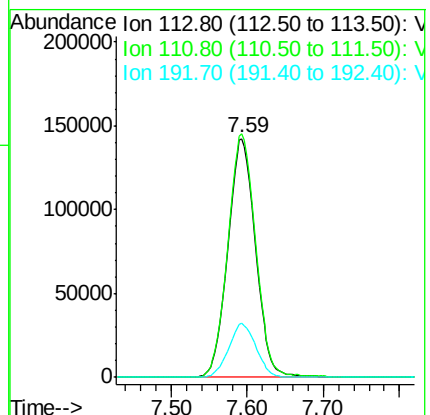
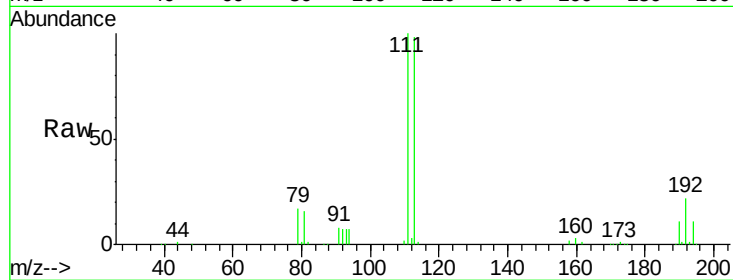
Tot Ion:113 Resp: 361198

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

192 22.2 17.8 26.6



#36

1,1-Dichloropropene

Concen: 3.93 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

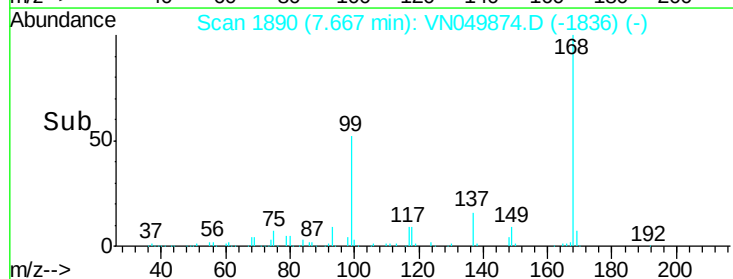
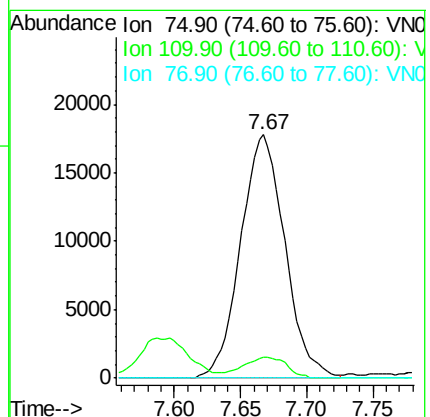
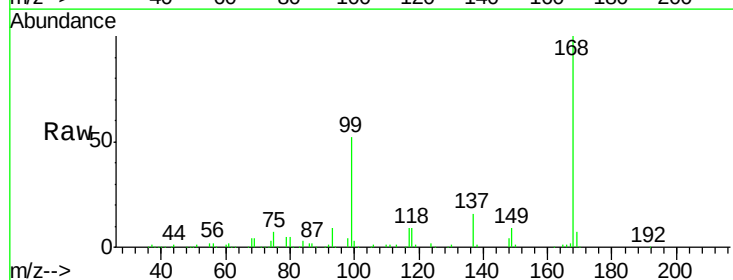
Tgt Ion: 75 Resp: 41344

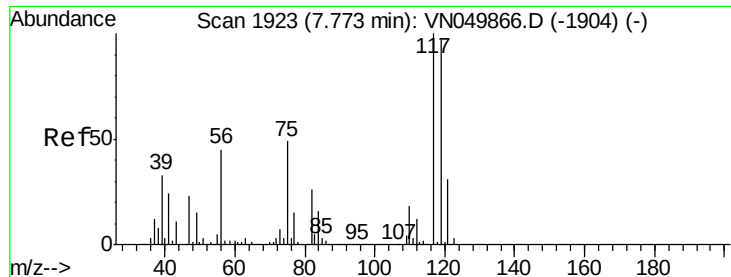
Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.4#

77 0.0 24.9 37.3#

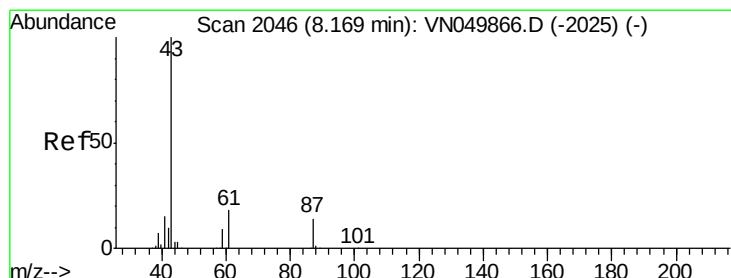
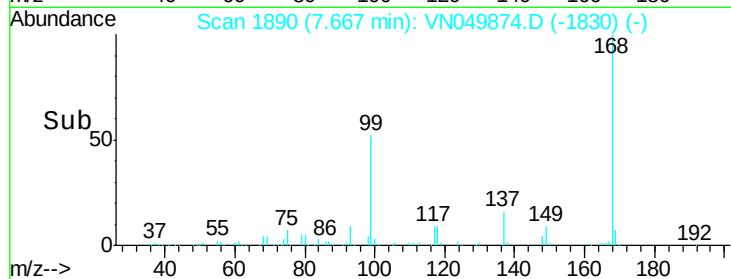
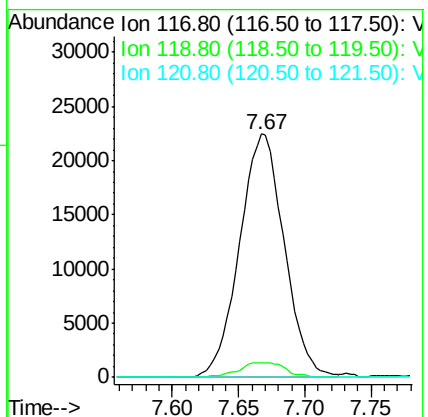
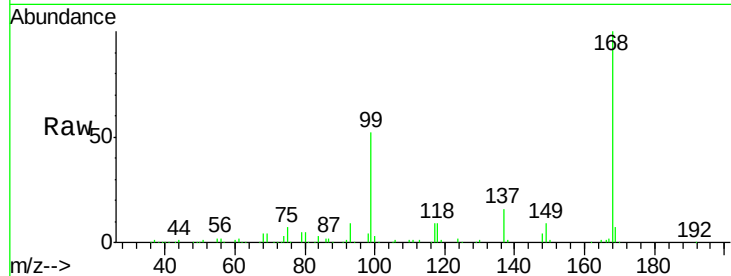




#38
Carbon Tetrachloride
Concen: 4.69 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

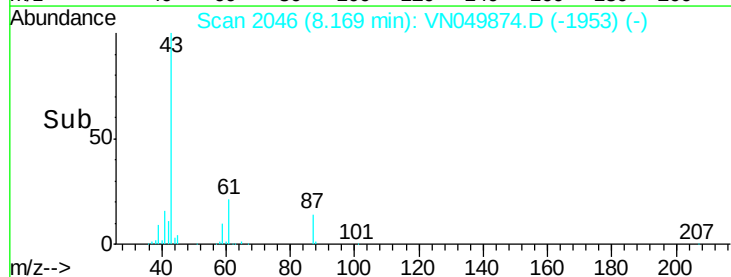
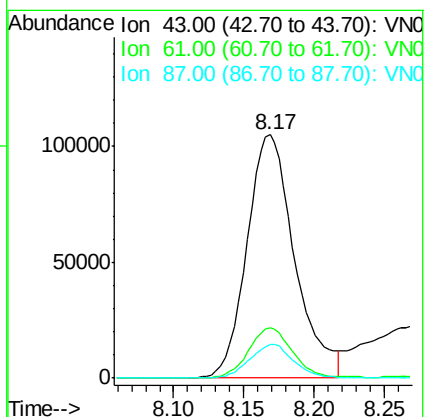
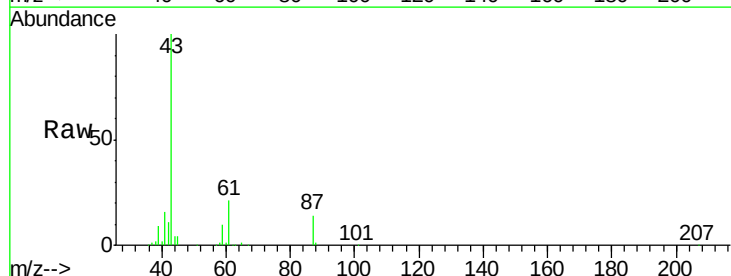
Instrument :
MSVOA_N
ClientSampled :

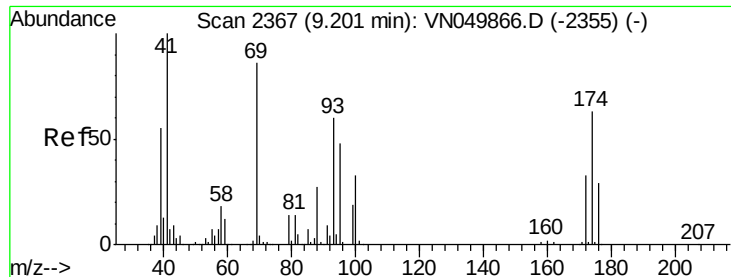
Tot Ion:117 Resp: 52782
Ion Ratio Lower Upper
117 100
119 6.2 77.2 115.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 19.67 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

Tgt Ion: 43 Resp: 248199
Ion Ratio Lower Upper
43 100
61 19.1 14.9 22.3
87 12.8 10.0 15.0

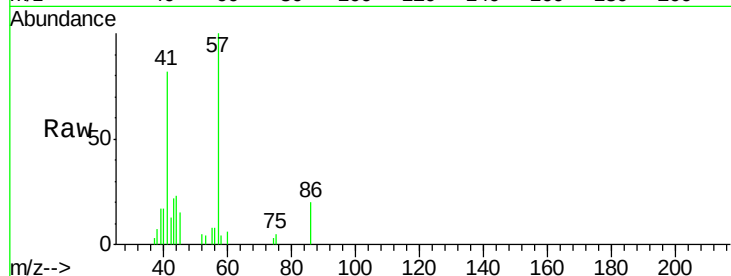




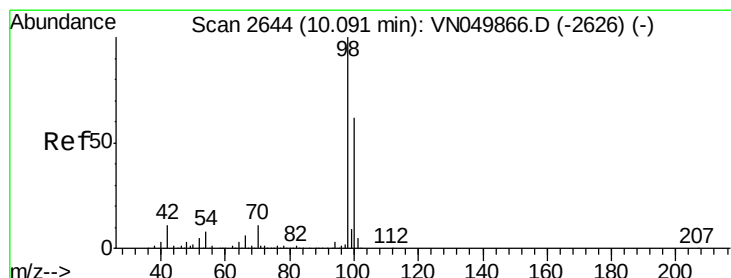
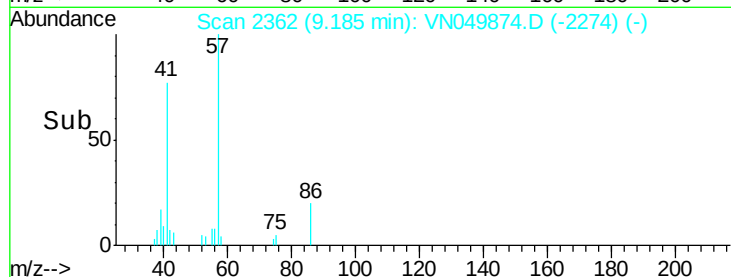
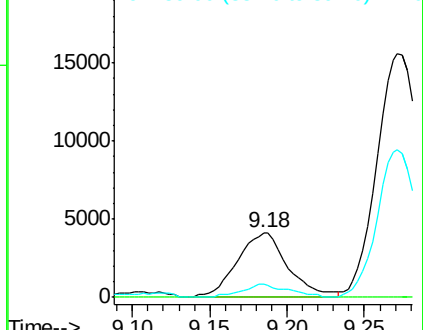
#48
Methvl methacrylate
Concen: 1.49 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 9404
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 18.3 44.7 67.1#

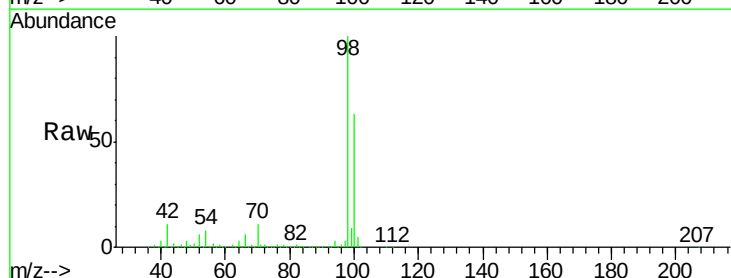


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

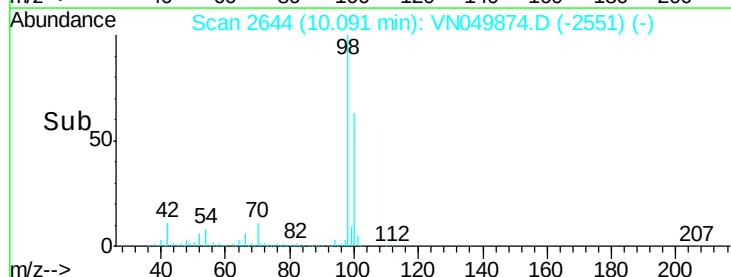
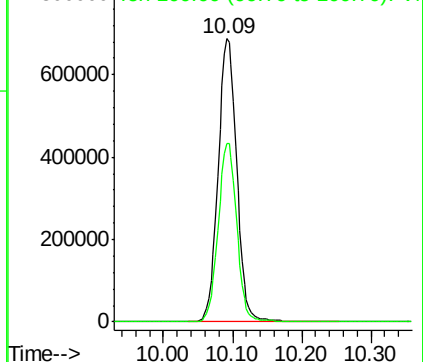


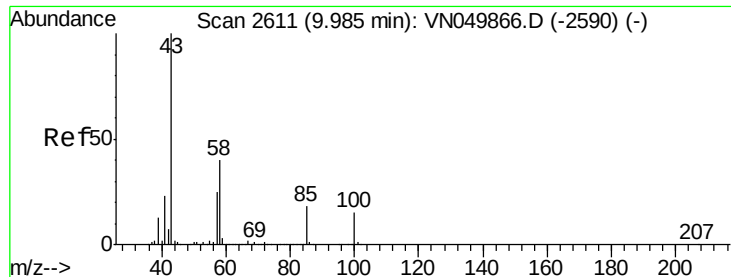
#50
Toluene-d8
Concen: 44.31 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

Tgt Ion: 98 Resp: 1281857
Ion Ratio Lower Upper
98 100
100 62.9 51.7 77.5



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: 0.43 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :

MSVOA_N

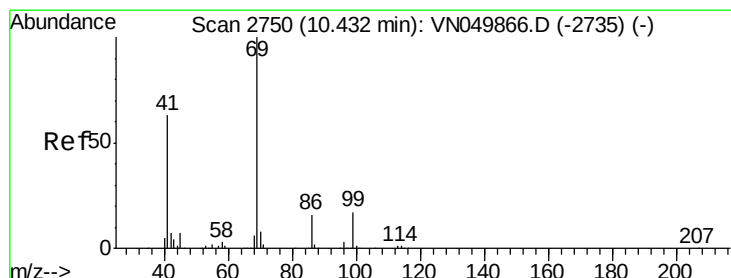
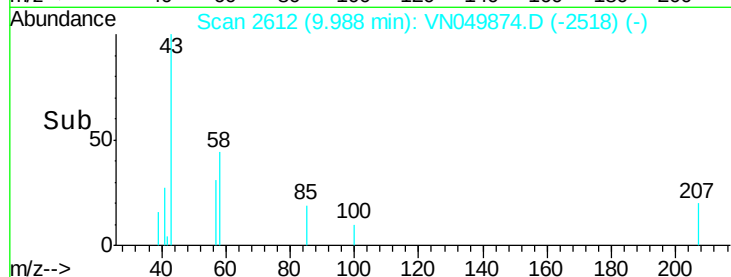
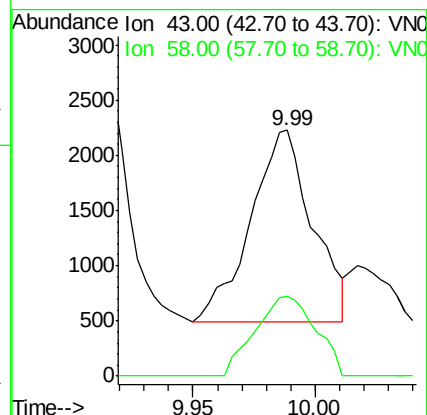
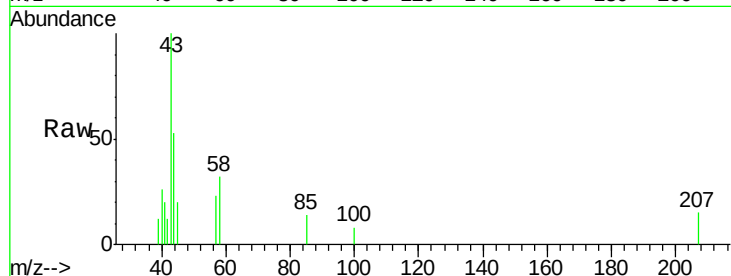
ClientSampled :

Tot Ion: 43 Resp: 3037

Ion Ratio Lower Upper

43 100

58 40.8 31.8 47.8



#56

Ethyl methacrylate

Concen: 2.40 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

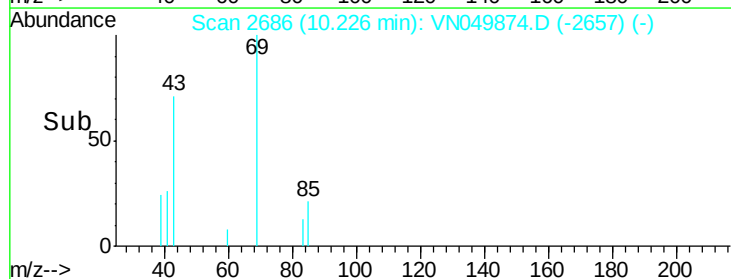
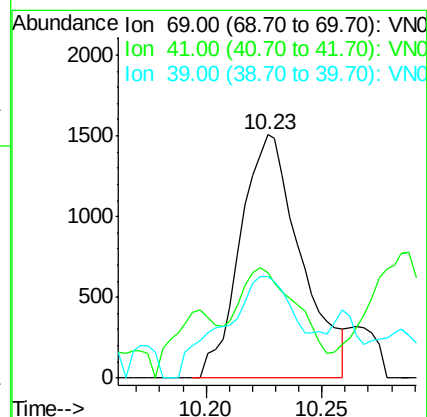
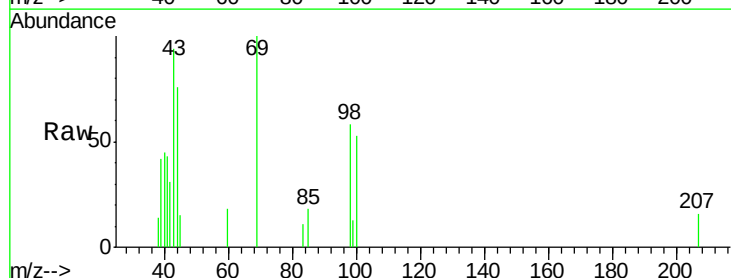
Tgt Ion: 69 Resp: 2723

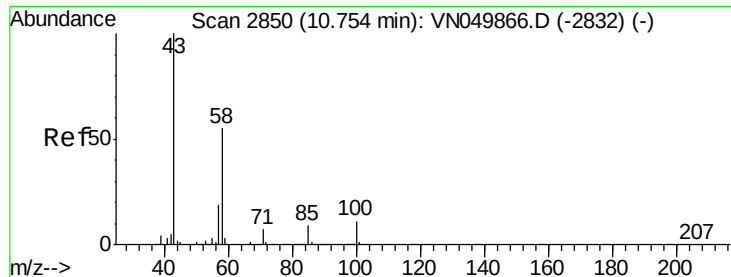
Ion Ratio Lower Upper

69 100

41 38.1 51.6 77.4#

39 49.8 25.8 38.8#





#59

2-Hexanone

Concen: 4.55 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :

MSVOA_N

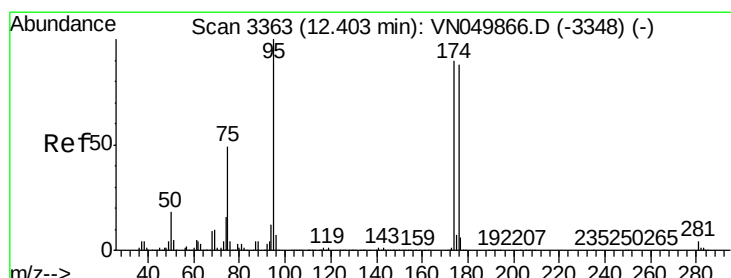
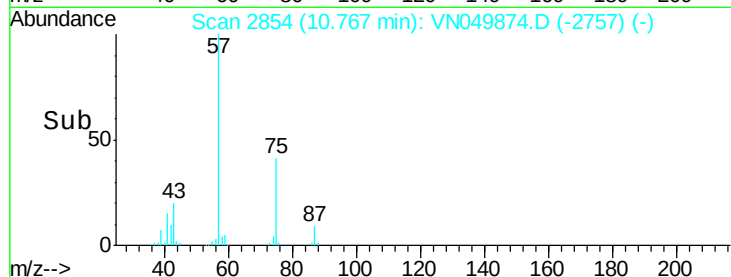
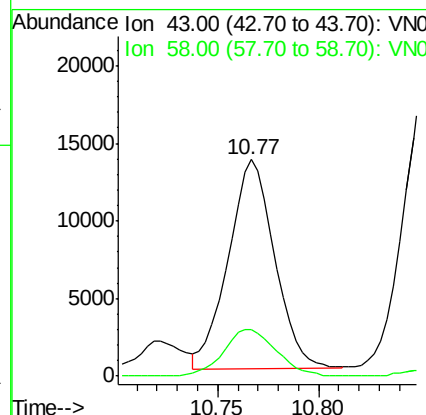
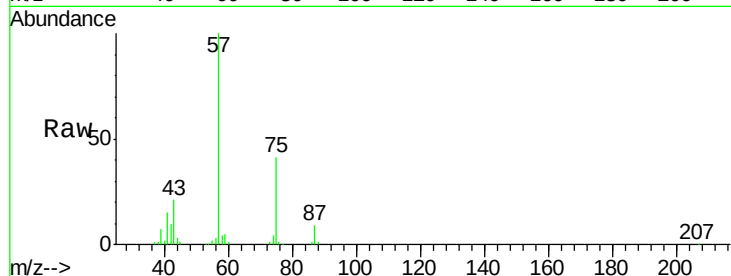
ClientSampled :

Tot Ion: 43 Resp: 21577

Ion Ratio Lower Upper

43 100

58 25.3 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 35.43 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

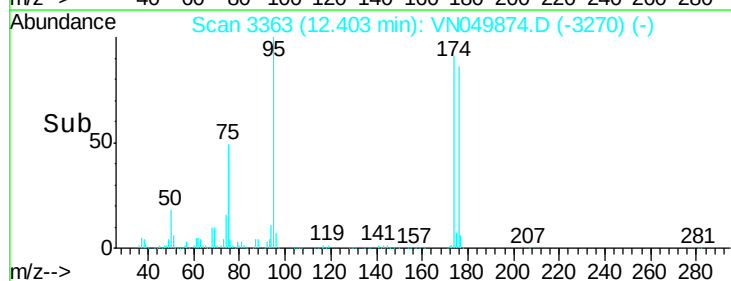
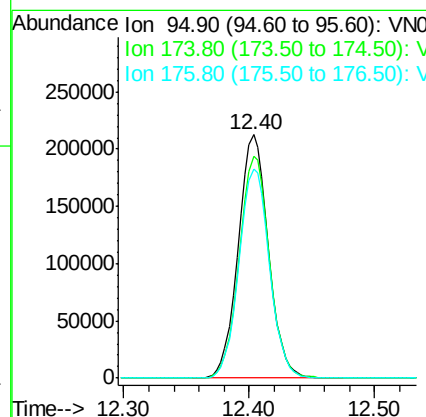
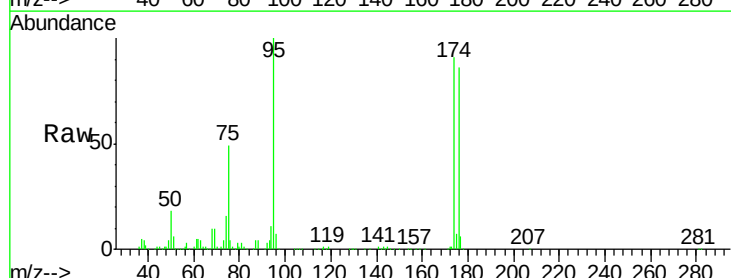
Tgt Ion: 95 Resp: 352974

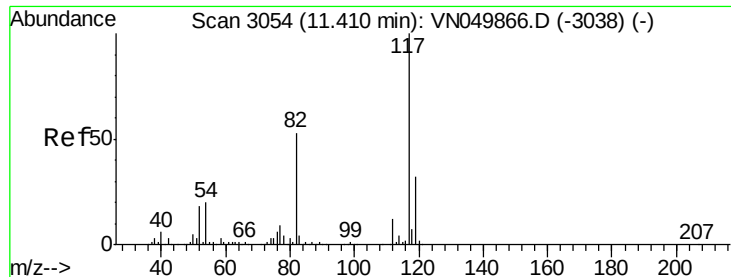
Ion Ratio Lower Upper

95 100

174 91.9 0.0 179.6

176 87.3 0.0 174.0

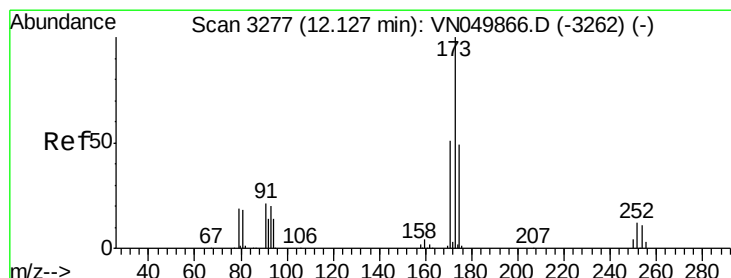
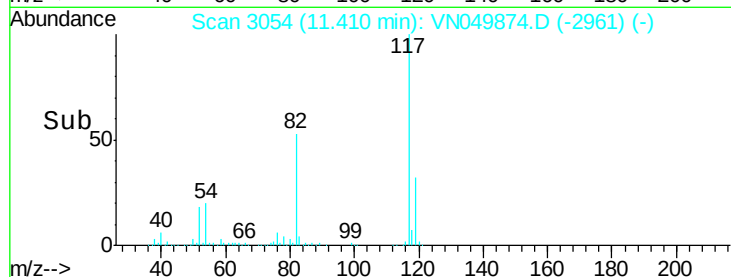
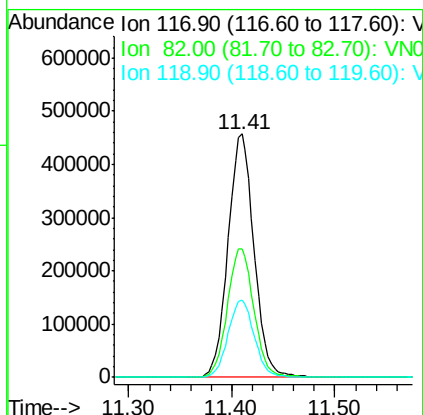
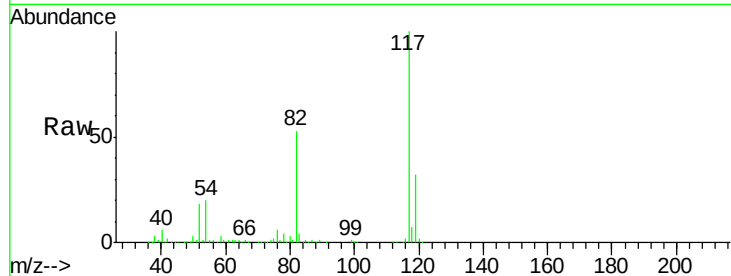




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

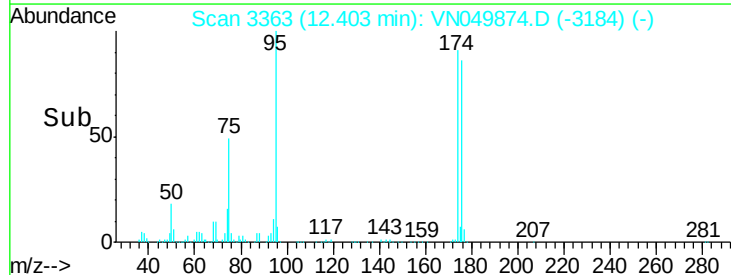
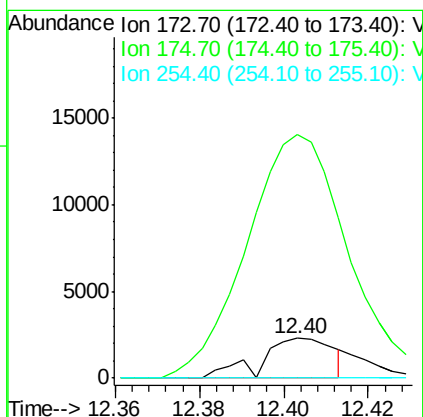
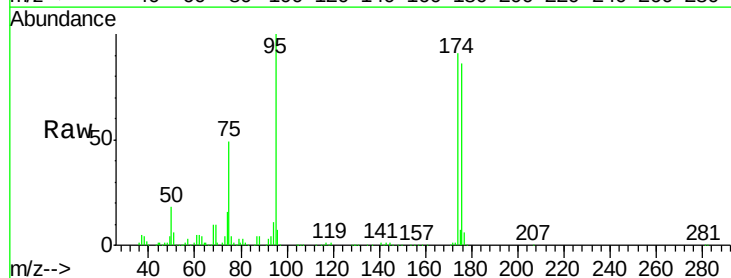
Instrument :
MSVOA_N
ClientSampled :

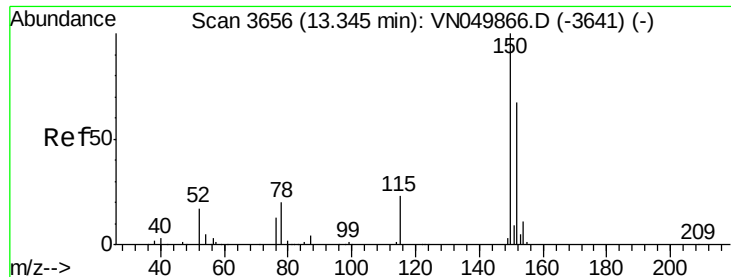
Tot Ion:117 Resp: 803889
Ion Ratio Lower Upper
117 100
82 53.0 41.9 62.9
119 31.6 25.4 38.2



#71
Bromoform
Concen: 0.49 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049874.D
Acq: 18 Jul 2018 15:53

Tgt Ion:173 Resp: 2724
Ion Ratio Lower Upper
173 100
175 720.4 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :

MSVOA_N

ClientSampleId :

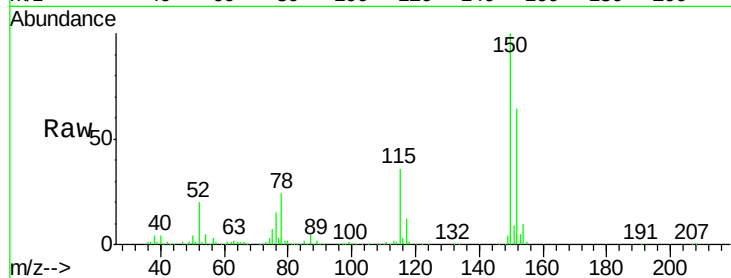
Tot Ion:152 Resp: 296714

Ion Ratio Lower Upper

152 100

115 56.3 28.1 84.2

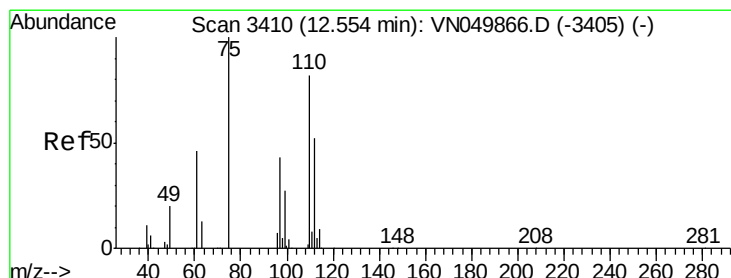
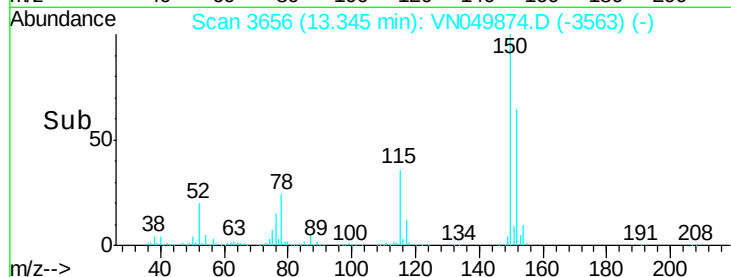
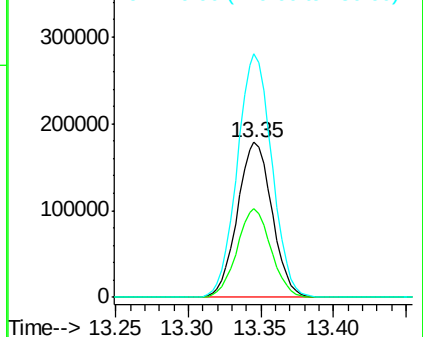
150 156.6 0.0 347.6



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: 31.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049874.D

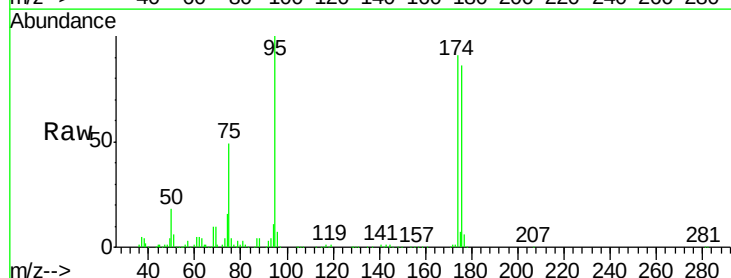
Acq: 18 Jul 2018 15:53

Tgt Ion: 75 Resp: 173041

Ion Ratio Lower Upper

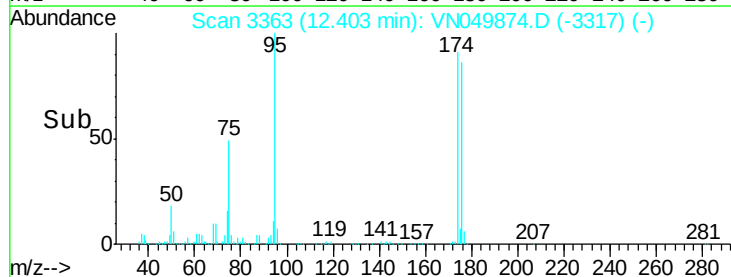
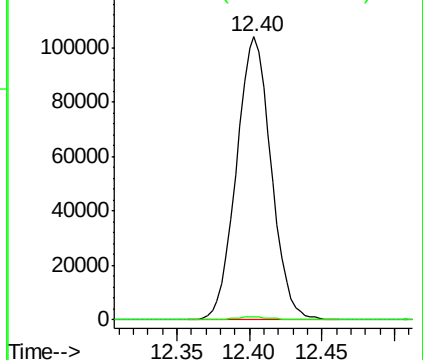
75 100

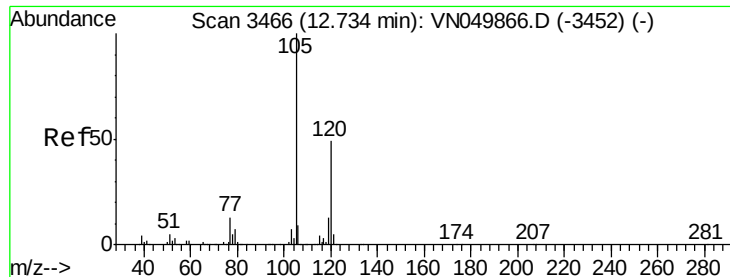
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

Instrument :

MSVOA_N

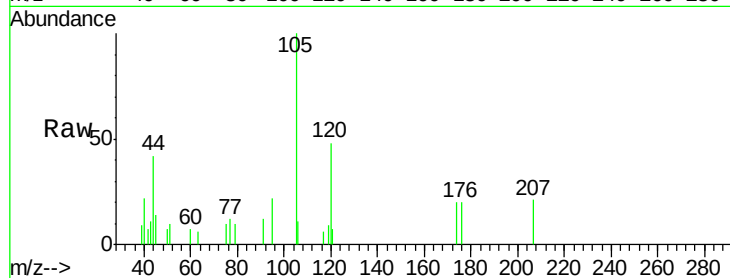
ClientSampleId :

Tot Ion:105 Resp: 4019

Ion Ratio Lower Upper

105 100

120 50.6 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

2500

2000

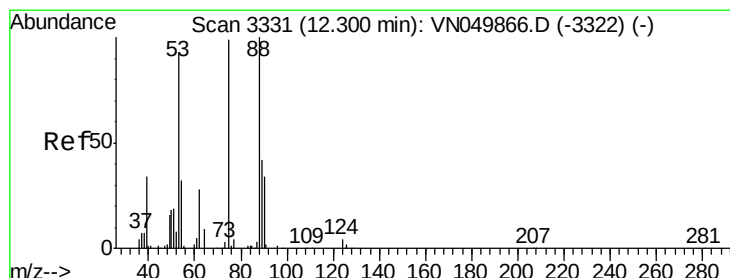
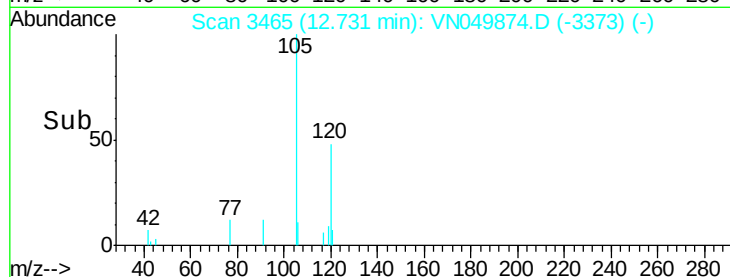
1500

1000

500

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 97.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049874.D

Acq: 18 Jul 2018 15:53

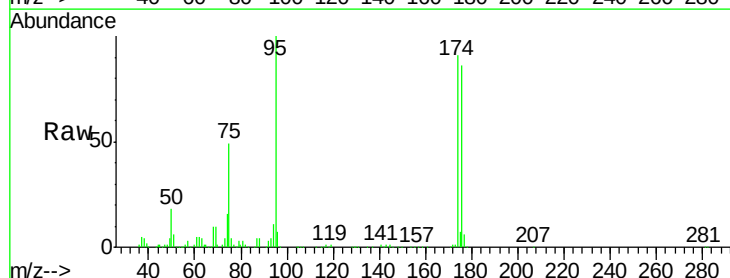
Tgt Ion: 75 Resp: 173041

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V

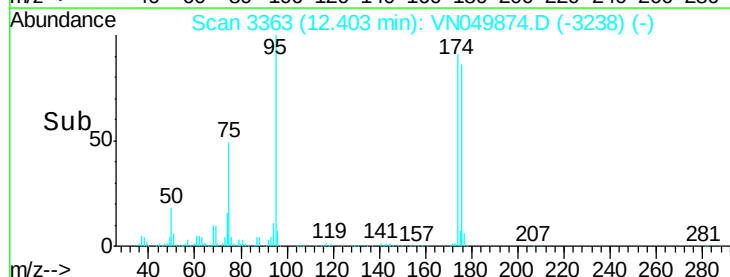
12.40

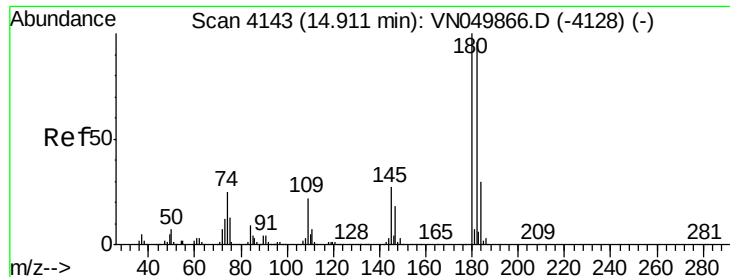
100000

50000

0

Time-->

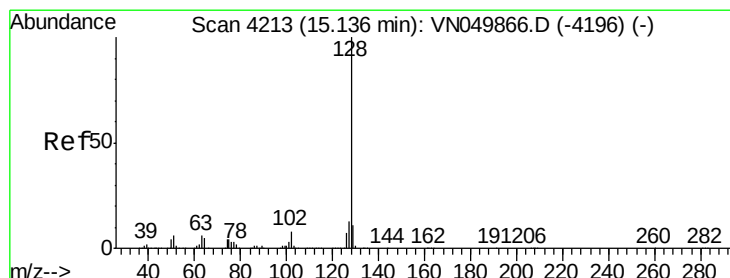
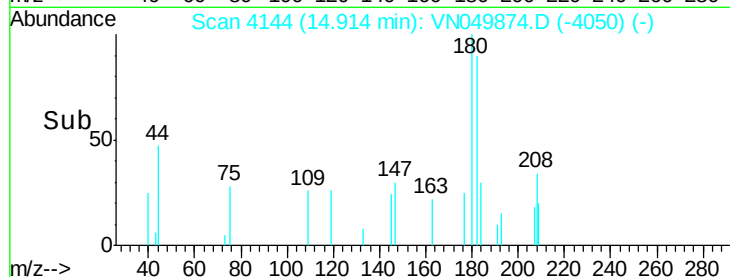
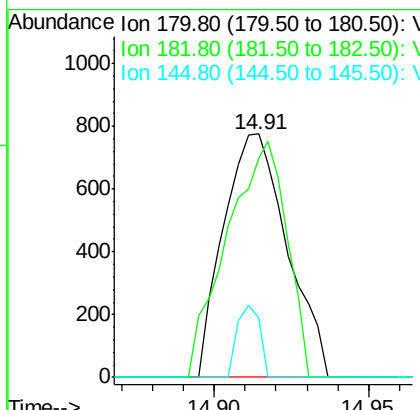
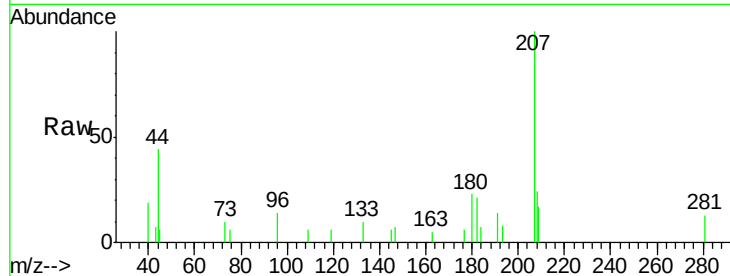




#93
 1,2,4-Trichlorobenzene
 Concen: 3.65 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049874.D
 Acq: 18 Jul 2018 15:53

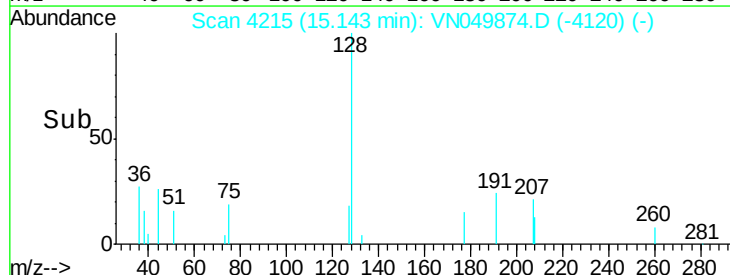
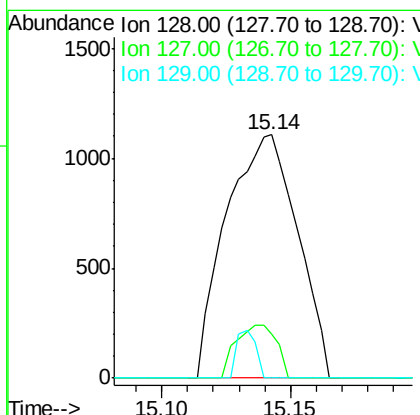
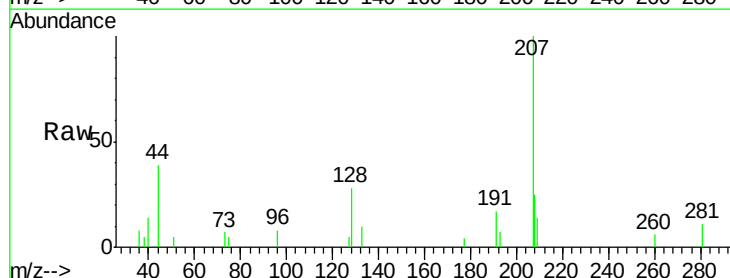
Instrument :
 MSVOA_N
 ClientSampled :

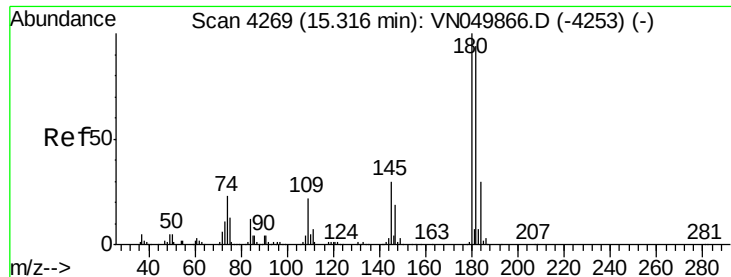
Tot Ion:180 Resp: 1109
 Ion Ratio Lower Upper
 180 100
 182 90.7 47.3 141.9
 145 10.5 14.4 43.0#



#95
 Naphthalene
 Concen: 4.63 ug/l
 RT: 15.14 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN049874.D
 Acq: 18 Jul 2018 15:53

Tgt Ion:128 Resp: 2128
 Ion Ratio Lower Upper
 128 100
 127 12.4 10.4 15.6
 129 5.3 8.6 13.0#

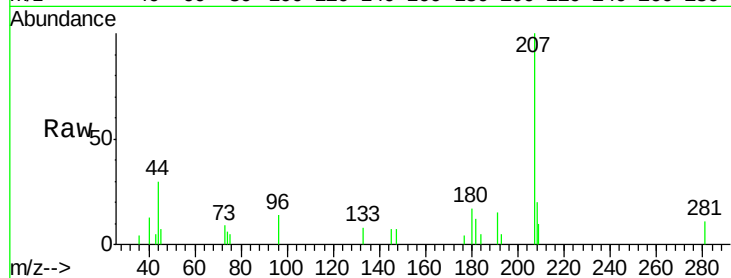




#96
 1,2,3-Trichlorobenzene
 Concen: 0.21 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN049874.D
 Acq: 18 Jul 2018 15:53

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	68.8	47.4	142.2
145	24.0	15.2	45.6



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

