

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050728.D
 Acq On : 17 Aug 2018 14:23
 Operator : MD\SY
 Sample : PB112140ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:13:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	617542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1024461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	853199	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	269630	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	418060	53.71	ug/l	0.00
Spiked Amount			Recovery	=	107.42%	
35) Dibromofluoromethane	7.59	113	390096	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	
50) Toluene-d8	10.09	98	1382977	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	
62) 4-Bromofluorobenzene	12.40	95	358294	35.23	ug/l	0.00
Spiked Amount			Recovery	=	70.46%	

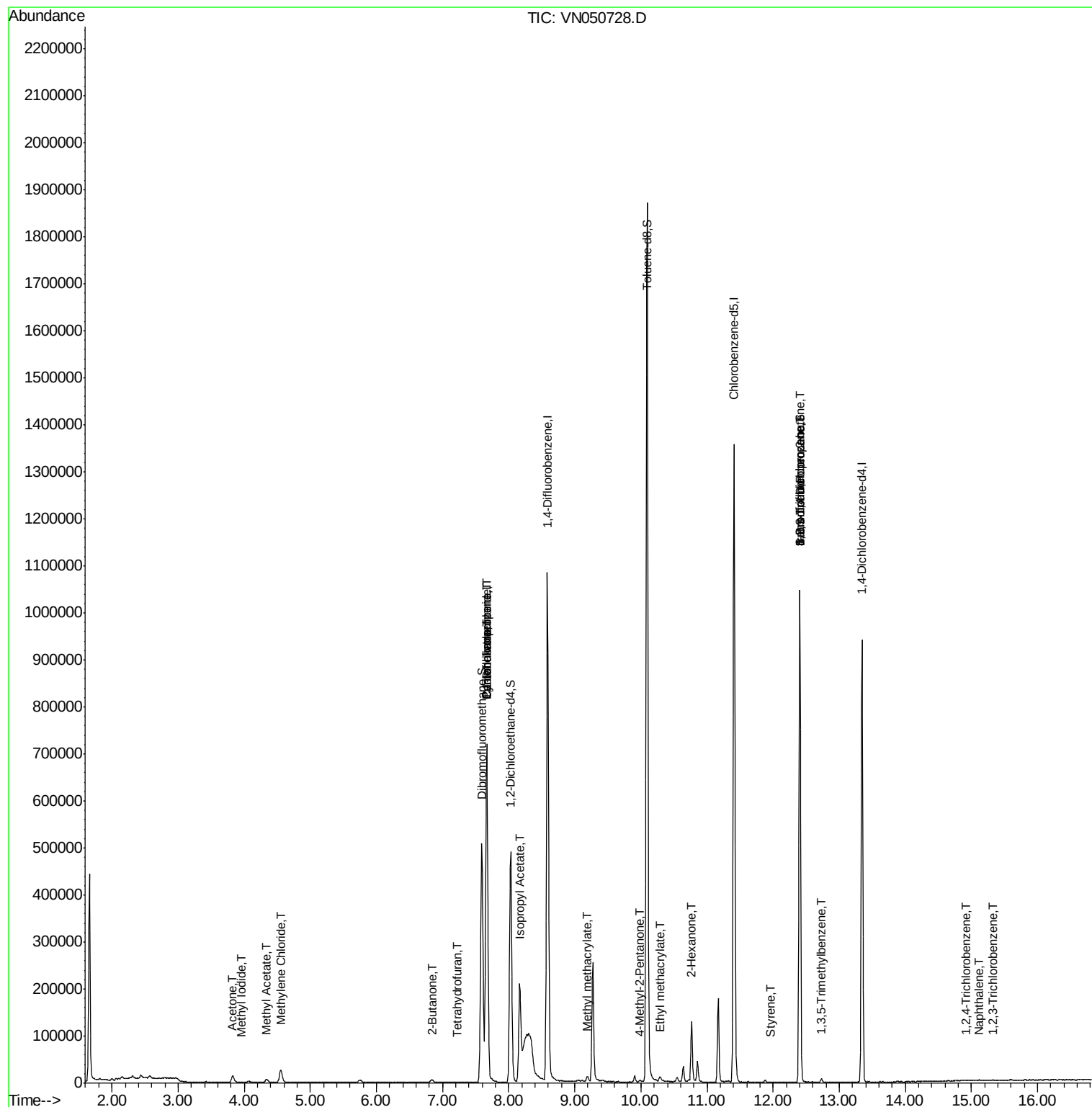
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2624	Below Cal		95
5) Bromomethane	2.57	94	3039	Below Cal		85
6) Chloroethane	2.68	64	102	Below Cal	#	43
10) Methyl Iodide	3.96	142	1155	7.14	ug/l #	42
16) Acetone	3.83	43	26166	12.08	ug/l	95
18) Methyl Acetate	4.33	43	12403	1.30	ug/l	100
20) Methylene Chloride	4.55	84	20727	1.57	ug/l	98
25) 2-Butanone	6.84	43	2706	0.85	ug/l	97
29) Tetrahydrofuran	7.23	42	829	0.50	ug/l #	62
31) Cyclohexane	7.67	56	11029	0.59	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43358	3.80	ug/l #	47
38) Carbon Tetrachloride	7.67	117	55447	4.69	ug/l #	17
43) Isopropyl Acetate	8.17	43	262908	22.38	ug/l	97
48) Methyl methacrylate	9.18	41	6623	1.12	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	3030	0.38	ug/l	87
56) Ethyl methacrylate	10.29	69	69	1.91	ug/l #	1
59) 2-Hexanone	10.77	43	18631	3.63	ug/l #	56
70) Styrene	11.97	104	363	0.96	ug/l #	49
71) Bromoform	12.40	173	2812	0.53	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	169747	38.73	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3659	0.22	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	169747	139.96	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	191	2.71	ug/l #	33
95) Naphthalene	15.13	128	771	3.93	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	288	2.00	ug/l #	81

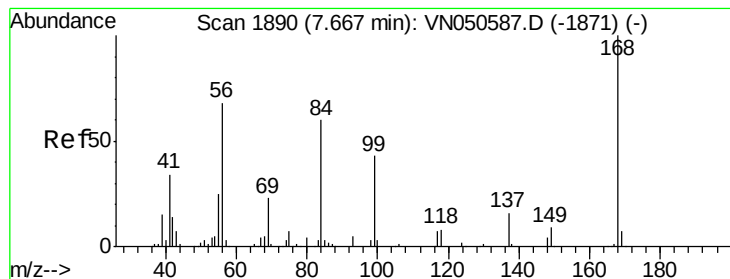
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

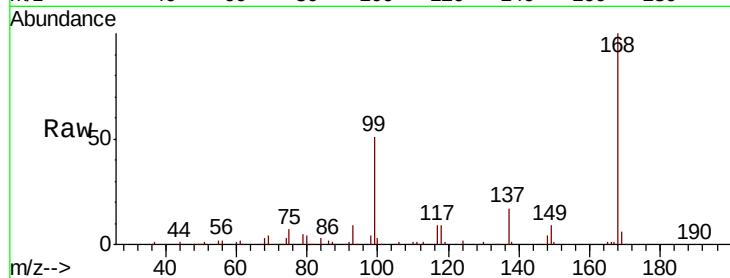
ClientSampleId :

Tot Ion:168 Resp: 617542

Ion Ratio Lower Upper

168 100

99 50.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050728.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050728.D (-1797) (-)

7.67

250000

200000

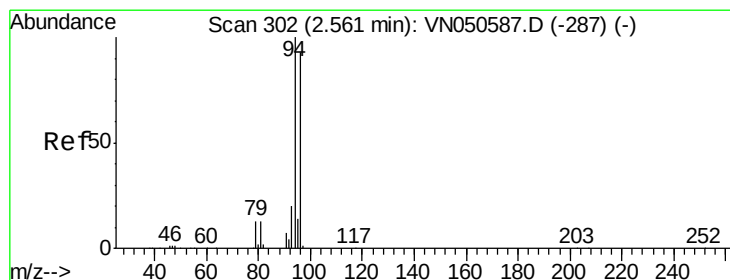
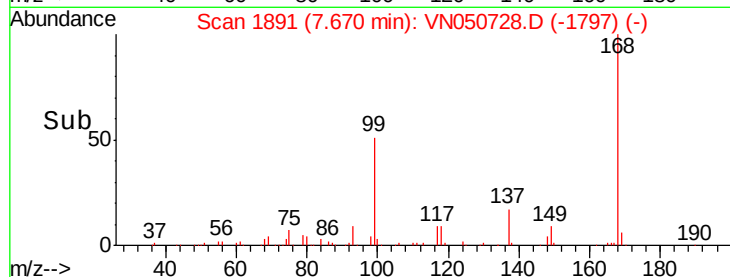
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050728.D

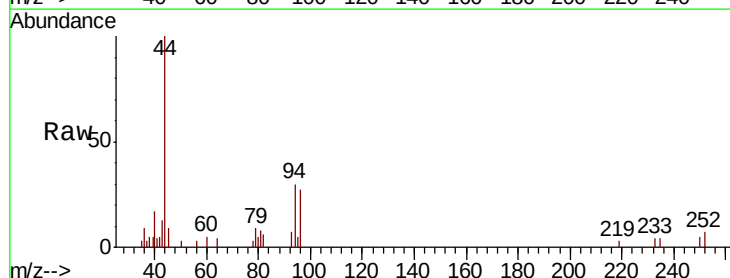
Acq: 17 Aug 2018 14:23

Tgt Ion: 94 Resp: 3039

Ion Ratio Lower Upper

94 100

96 78.3 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050728.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050728.D (-209) (-)

2.57

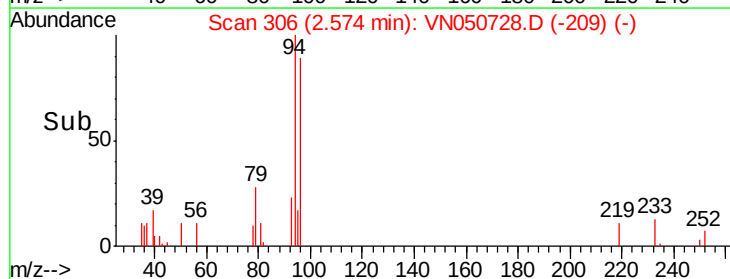
1500

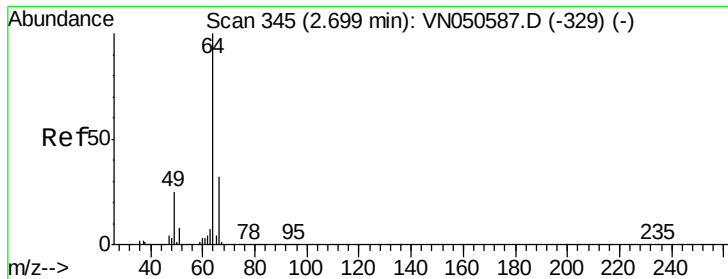
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 339

Delta R.T. -0.02 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

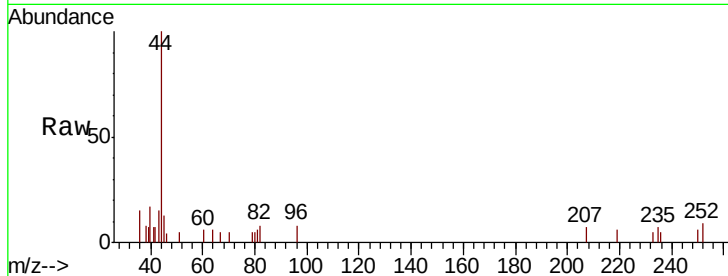
ClientSampleId :

Tot Ion: 64 Resp: 102

Ion Ratio Lower Upper

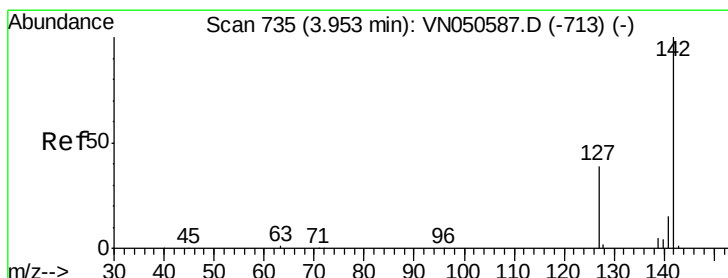
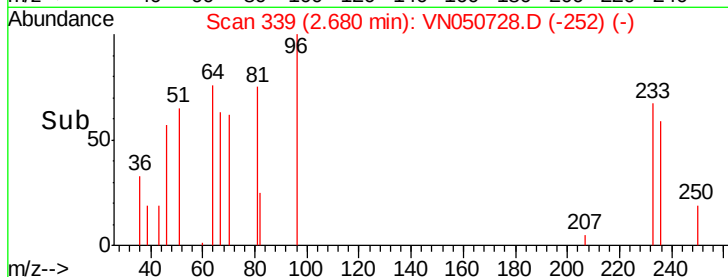
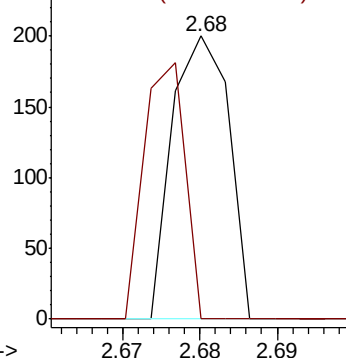
64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#10

Methyl Iodide

Concen: 7.14 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

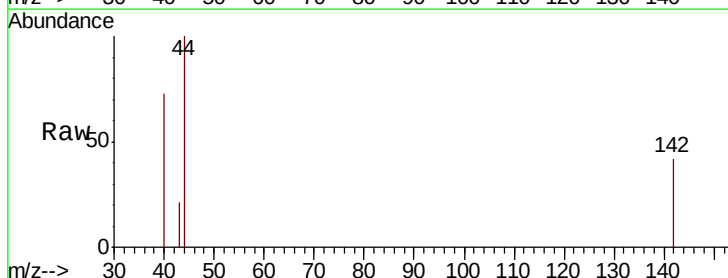
Tgt Ion:142 Resp: 1155

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

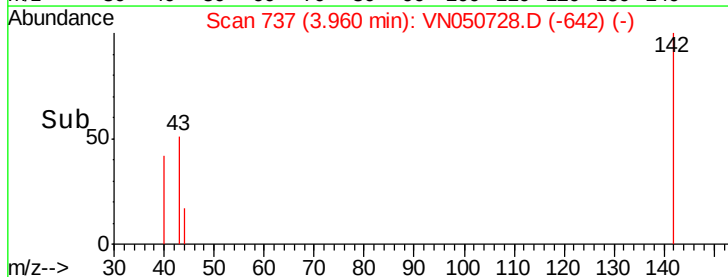
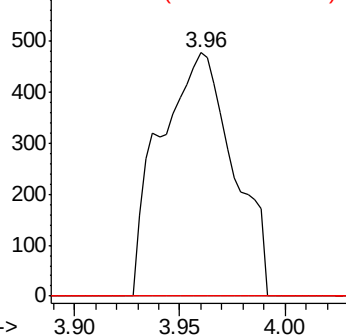
141 0.0 11.5 17.3#

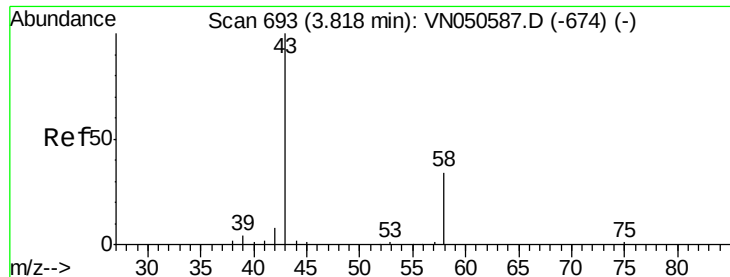


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 12.08 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

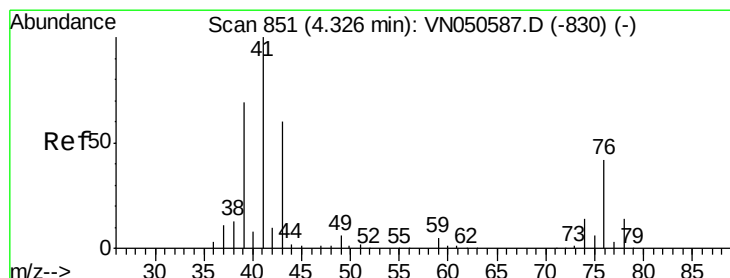
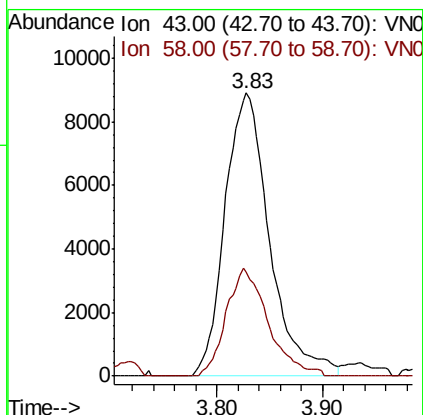
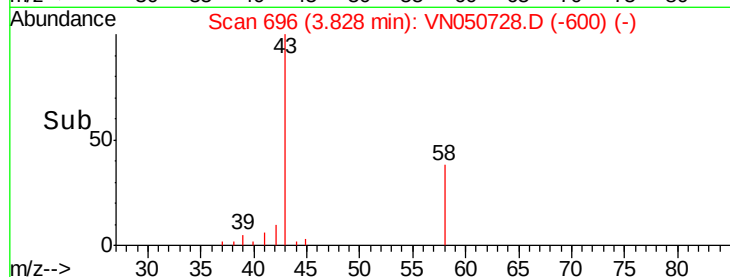
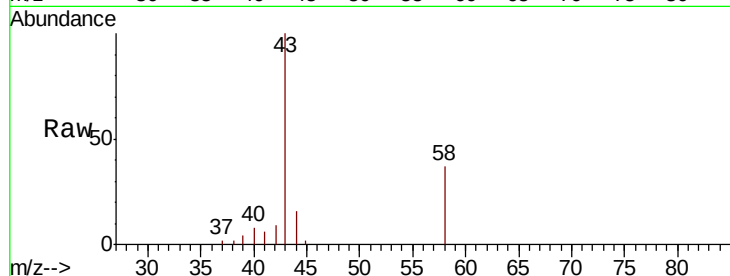
ClientSampled :

Tot Ion: 43 Resp: 26166

Ion Ratio Lower Upper

43 100

58 36.8 27.1 40.7



#18

Methyl Acetate

Concen: 1.30 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN050728.D

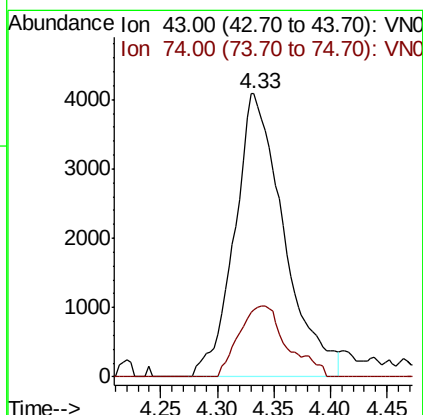
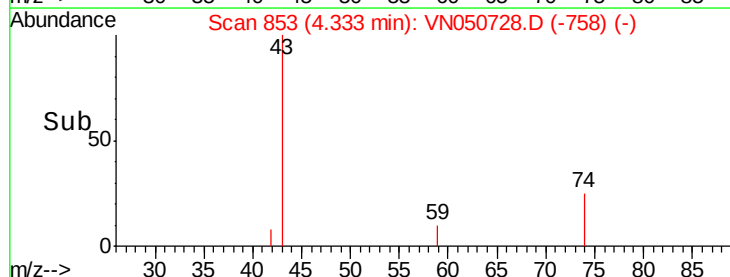
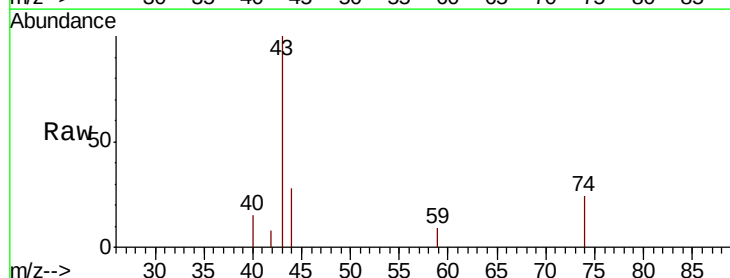
Acq: 17 Aug 2018 14:23

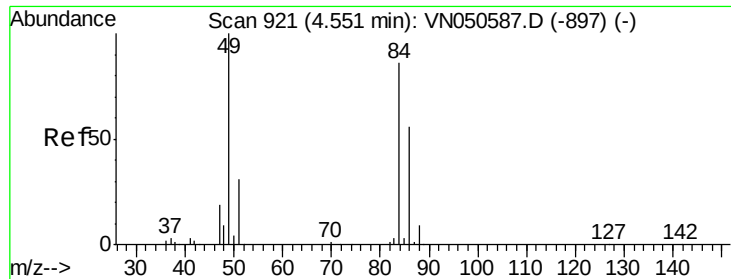
Tgt Ion: 43 Resp: 12403

Ion Ratio Lower Upper

43 100

74 24.5 19.7 29.5

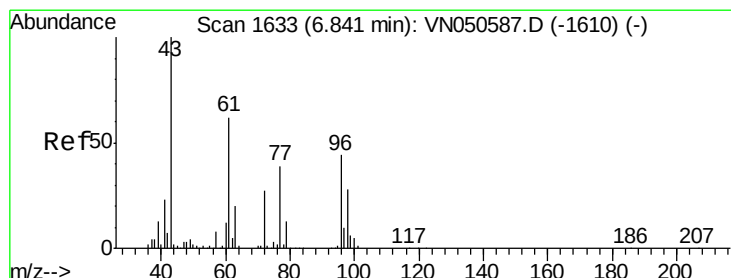
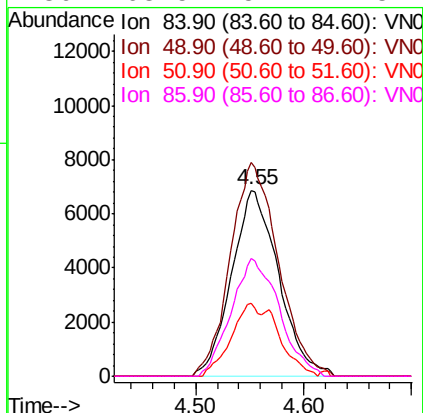
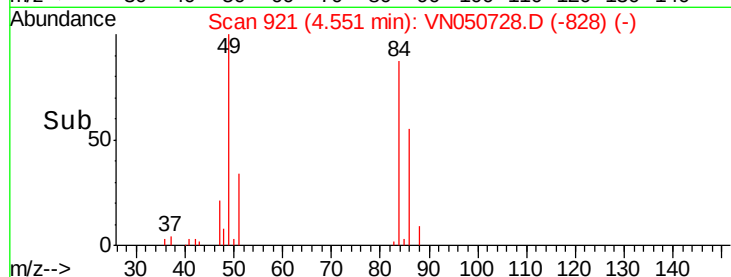
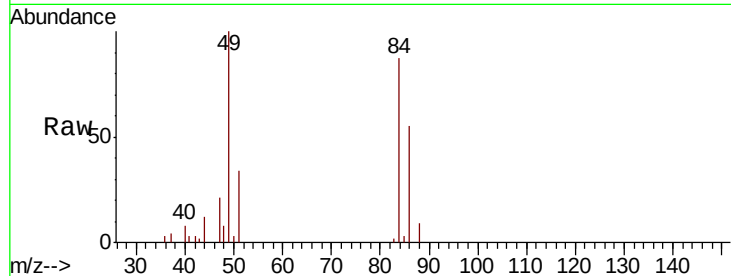




#20
Methvlene Chloride
Concen: 1.57 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

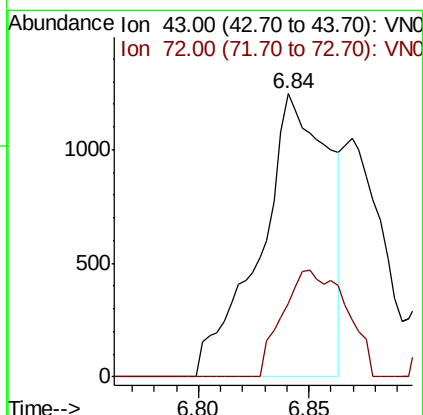
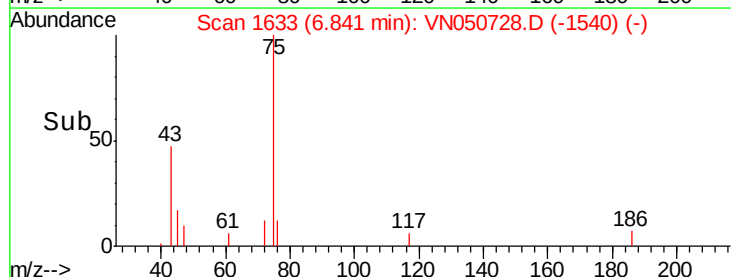
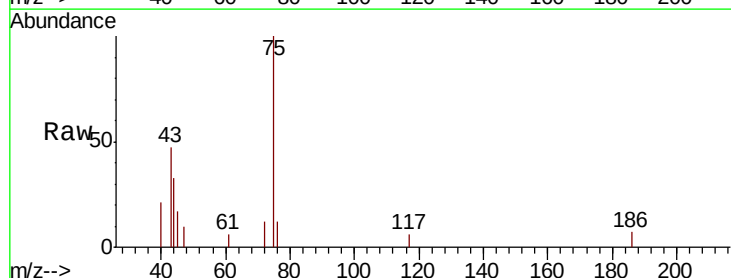
Instrument :
MSVOA_N
ClientSampleId :

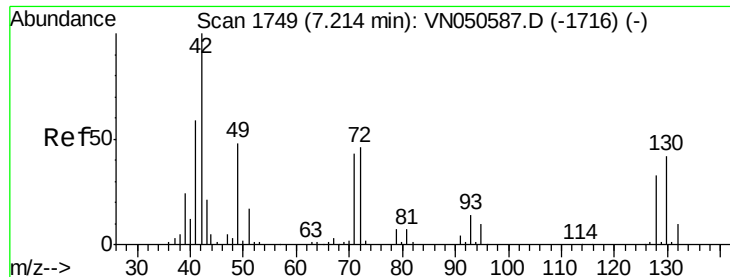
Tot Ion: 84 Resp: 20727
Ion Ratio Lower Upper
84 100
49 115.0 92.6 138.8
51 39.2 28.6 43.0
86 63.5 52.2 78.2



#25
2-Butanone
Concen: 0.85 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

Tgt Ion: 43 Resp: 2706
Ion Ratio Lower Upper
43 100
72 25.8 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.02 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

ClientSampled :

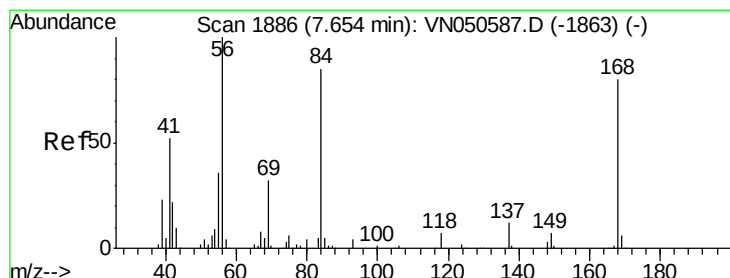
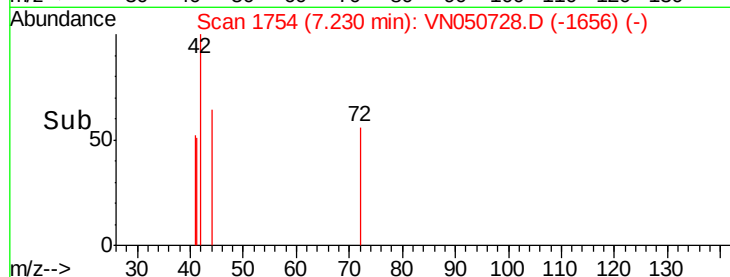
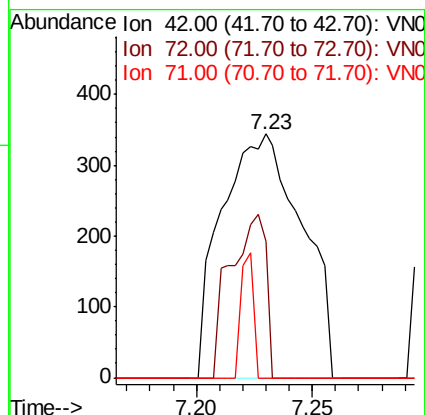
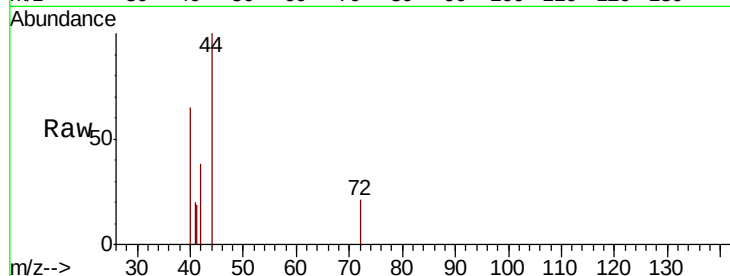
Tot Ion: 42 Resp: 829

Ion Ratio Lower Upper

42 100

72 29.9 35.8 53.6#

71 7.8 33.4 50.0#



#31

Cyclohexane

Concen: 0.59 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

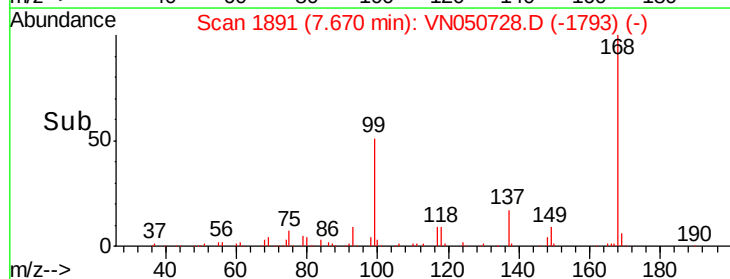
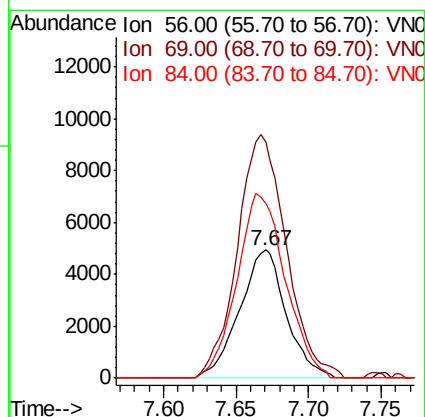
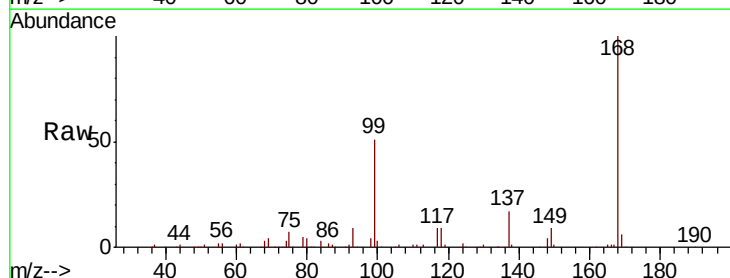
Tgt Ion: 56 Resp: 11029

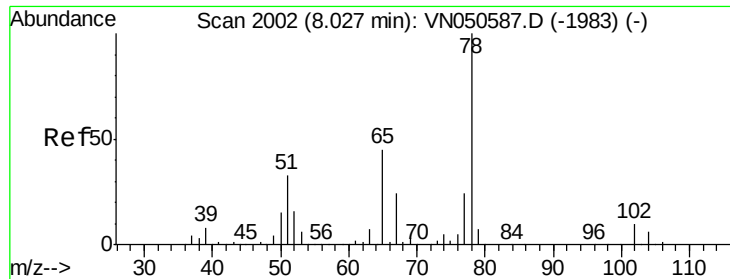
Ion Ratio Lower Upper

56 100

69 183.9 25.8 38.6#

84 136.3 67.8 101.6#

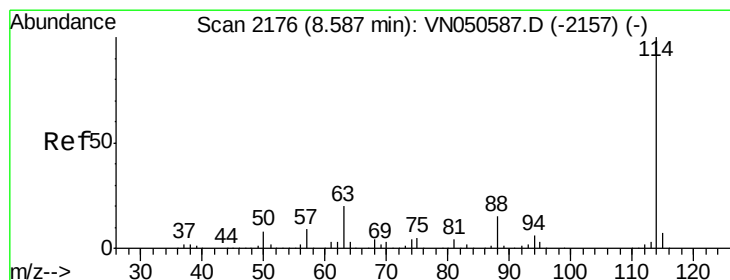
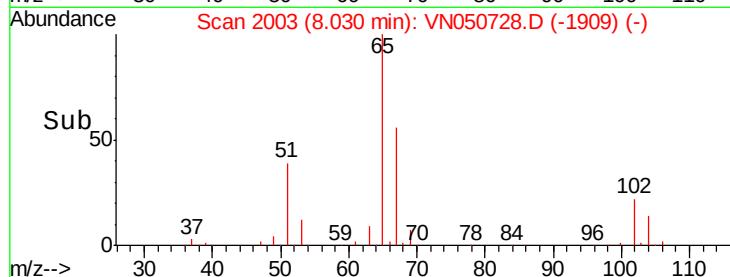
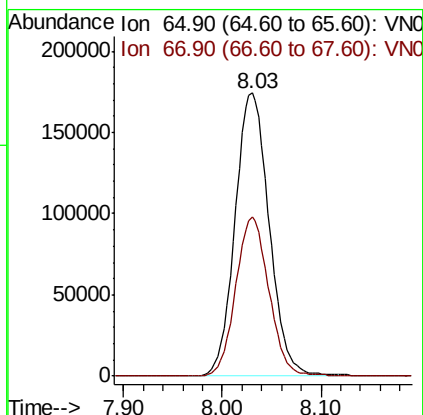
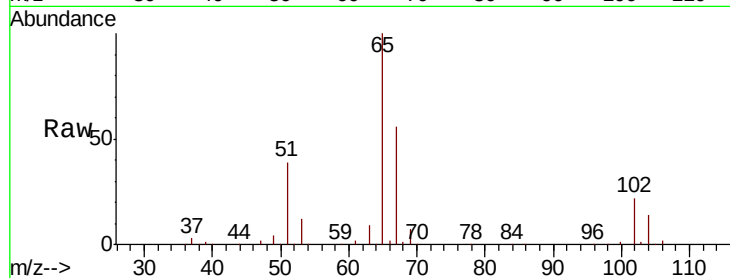




#33
 1,2-Dichloroethane-d4
 Concen: 53.71 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050728.D
 Acq: 17 Aug 2018 14:23

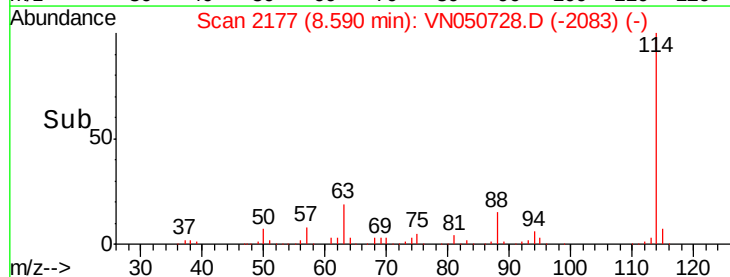
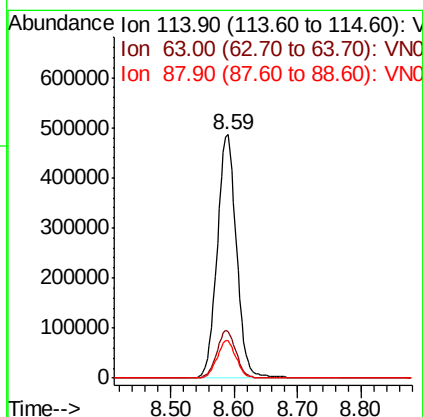
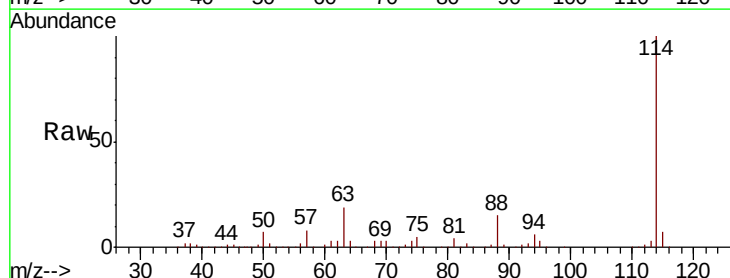
Instrument :
 MSVOA_N
 ClientSampleId :

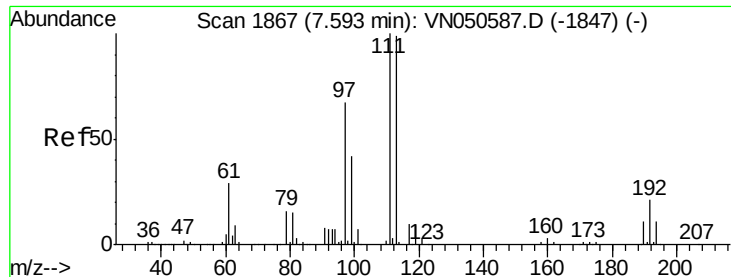
Tot Ion: 65 Resp: 418060
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050728.D
 Acq: 17 Aug 2018 14:23

Tgt Ion: 114 Resp: 1024461
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.3 0.0 30.8

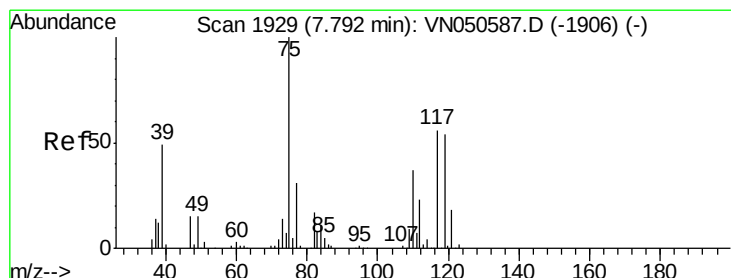
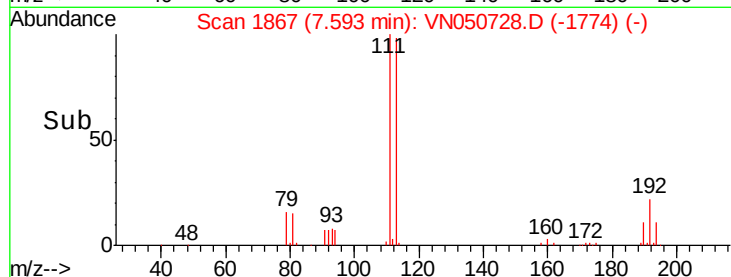
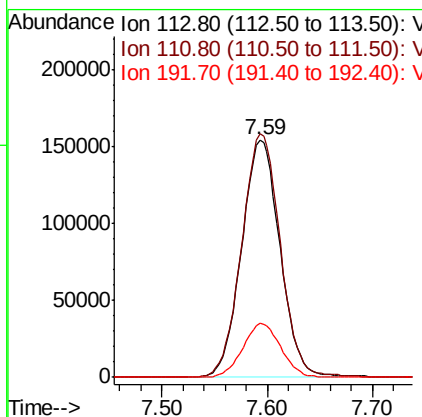
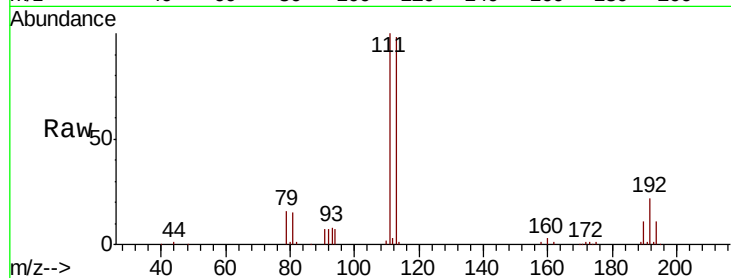




#35
 Dibromofluoromethane
 Concen: 47.70 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050728.D
 Acq: 17 Aug 2018 14:23

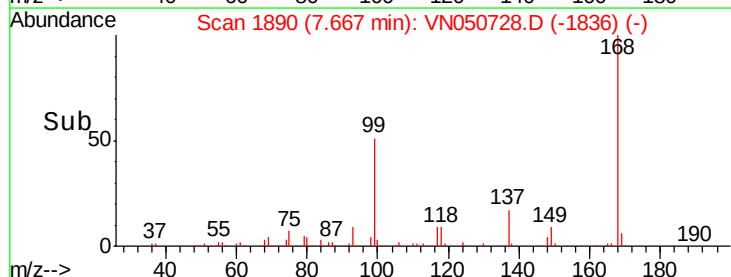
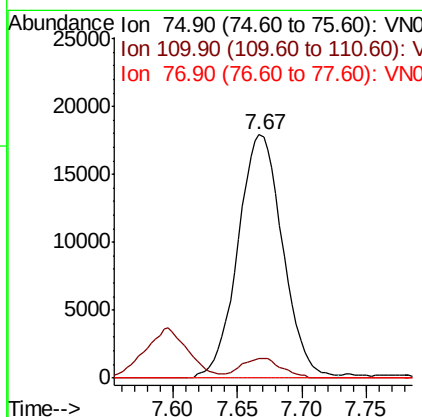
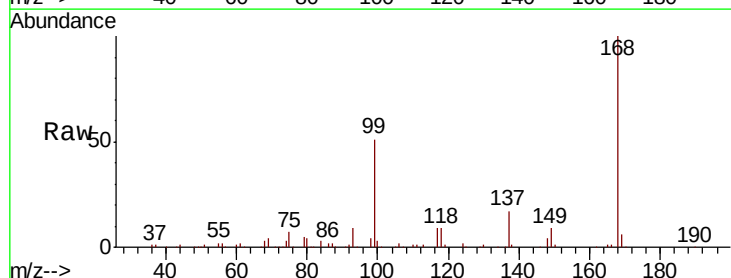
Instrument :
 MSVOA_N
 ClientSampleId :

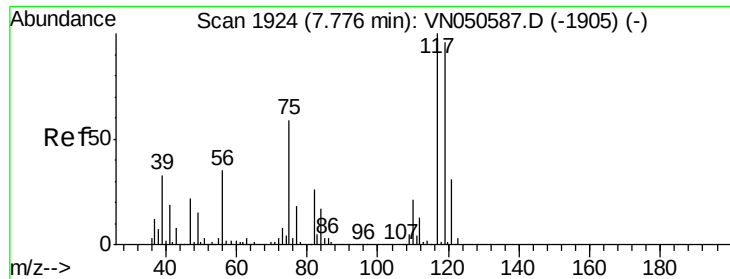
Tot Ion:113 Resp: 390096
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.0 121.6
 192 22.5 17.6 26.4



#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050728.D
 Acq: 17 Aug 2018 14:23

Tgt Ion: 75 Resp: 43358
 Ion Ratio Lower Upper
 75 100
 110 7.4 18.3 54.9#
 77 0.0 25.0 37.4#

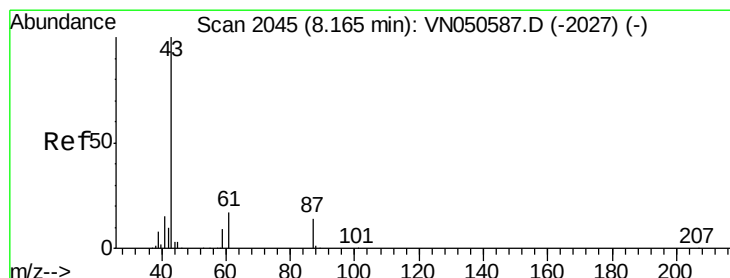
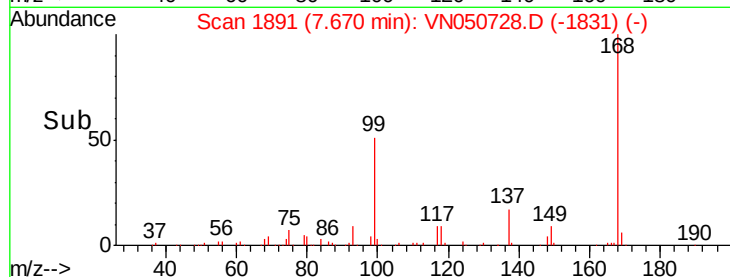
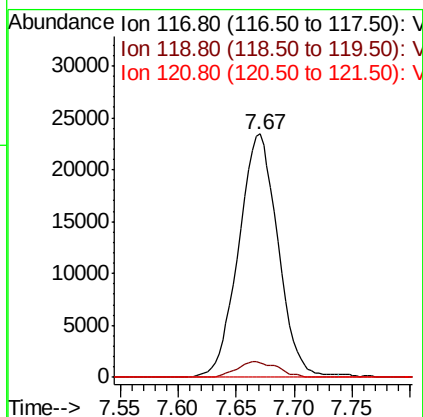
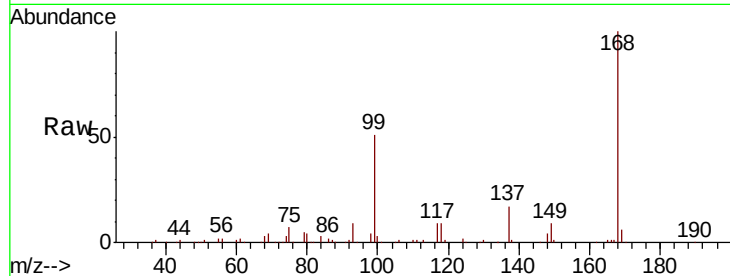




#38
Carbon Tetrachloride
Concen: 4.69 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

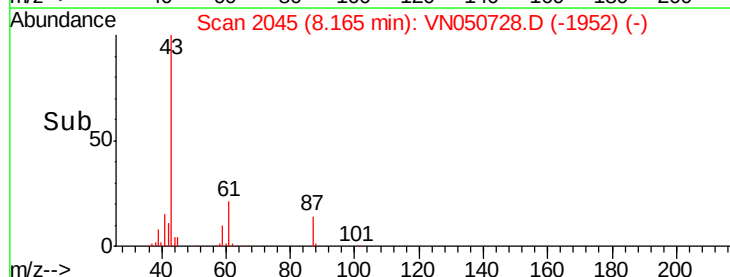
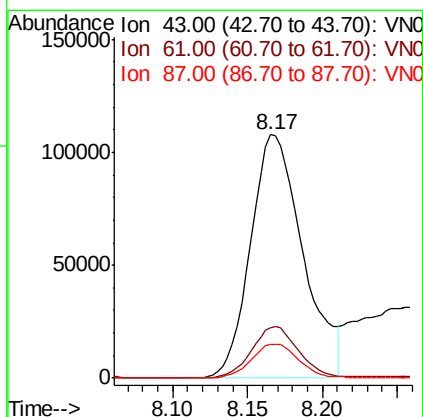
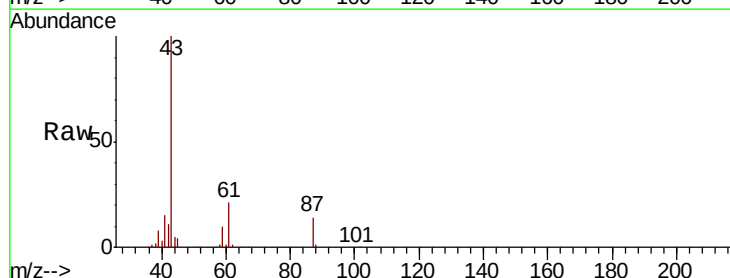
Instrument :
MSVOA_N
ClientSampled :

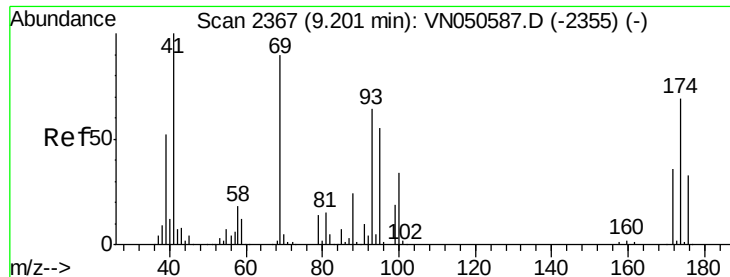
Tot Ion:117 Resp: 55447
Ion Ratio Lower Upper
117 100
119 6.0 76.6 115.0#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 22.38 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. 0.00 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

Tgt Ion: 43 Resp: 262908
Ion Ratio Lower Upper
43 100
61 18.8 16.2 24.2
87 12.7 10.9 16.3

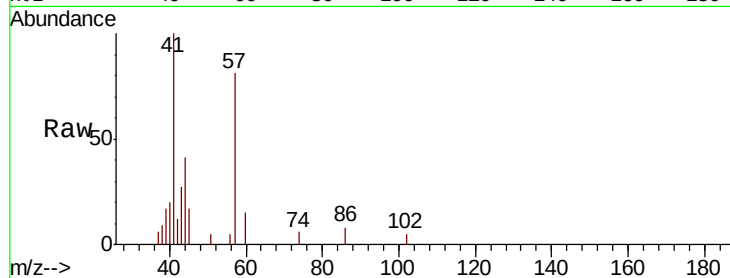




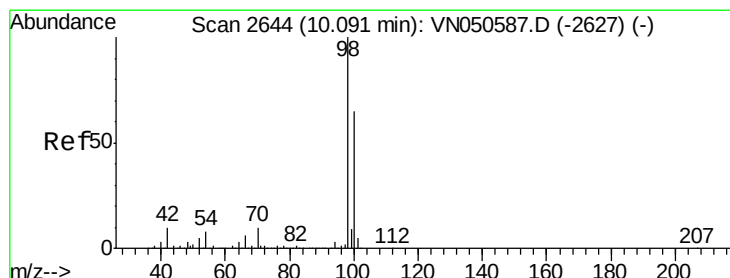
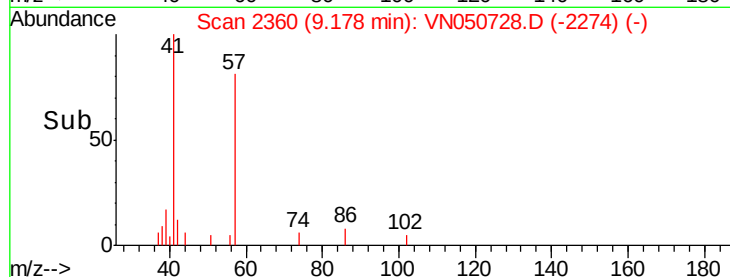
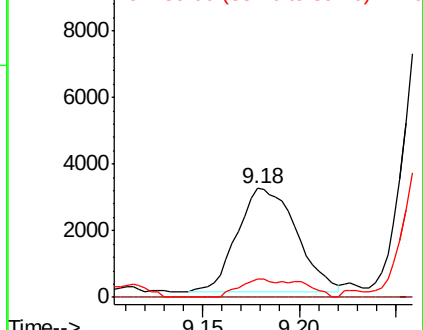
#48
Methvl methacrylate
Concen: 1.12 ug/l
RT: 9.18 min Scan# 2360
Delta R.T. -0.02 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 6623
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 10.3 43.0 64.6#

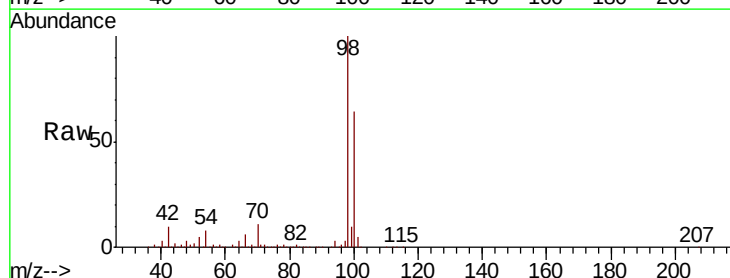


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

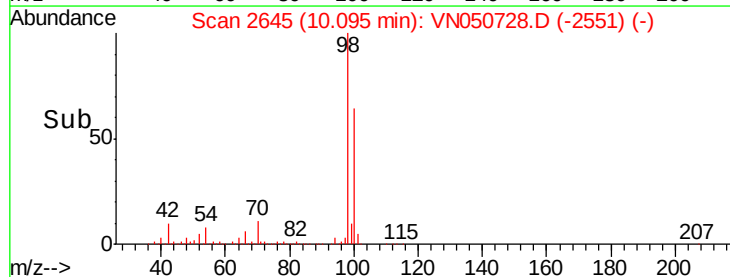
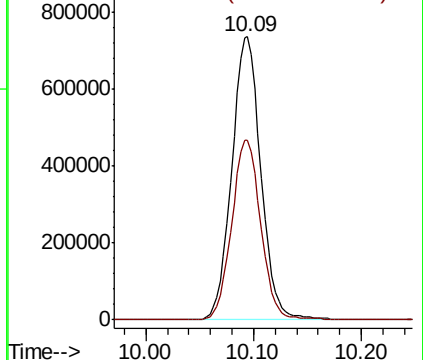


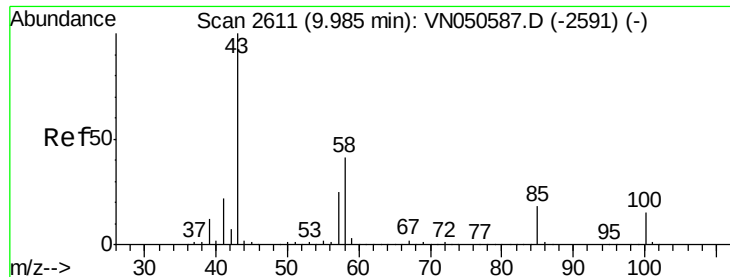
#50
Toluene-d8
Concen: 44.93 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

Tgt Ion: 98 Resp: 1382977
Ion Ratio Lower Upper
98 100
100 63.9 51.8 77.8



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: 0.38 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

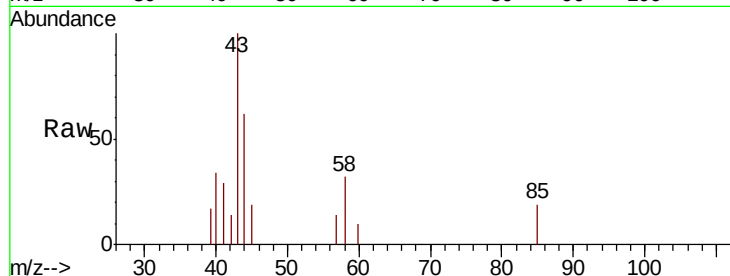
ClientSampled :

Tot Ion: 43 Resp: 3030

Ion Ratio Lower Upper

43 100

58 32.6 32.5 48.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3000

2500

2000

1500

1000

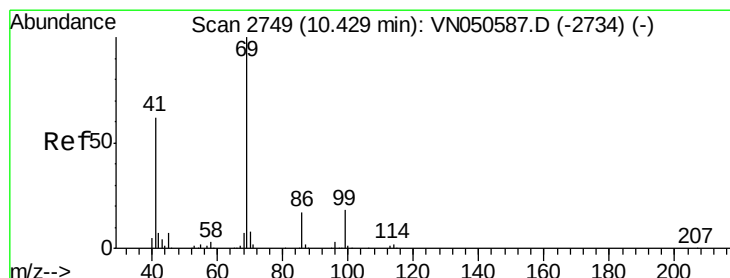
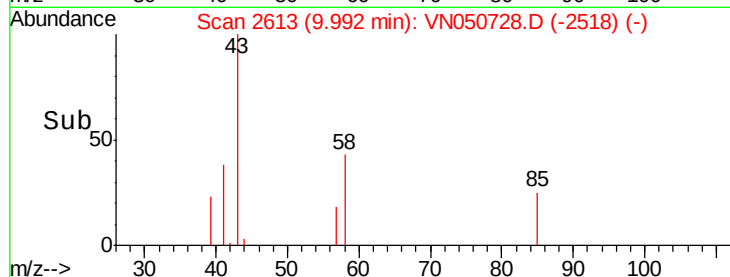
500

0

9.95

10.00

Time-->



#56

Ethyl methacrylate

Concen: 1.91 ug/l

RT: 10.29 min Scan# 2707

Delta R.T. -0.13 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

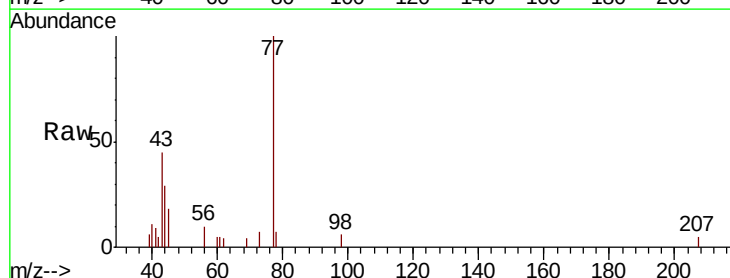
Tgt Ion: 69 Resp: 69

Ion Ratio Lower Upper

69 100

41 1573.9 49.7 74.5#

39 843.5 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

600

400

200

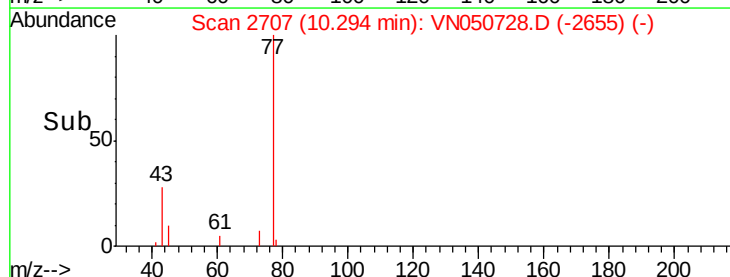
0

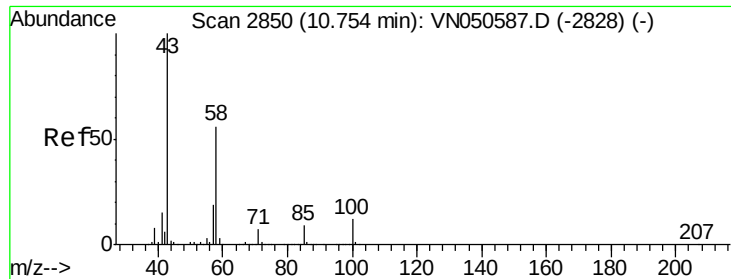
10.28

10.29

10.30

Time-->

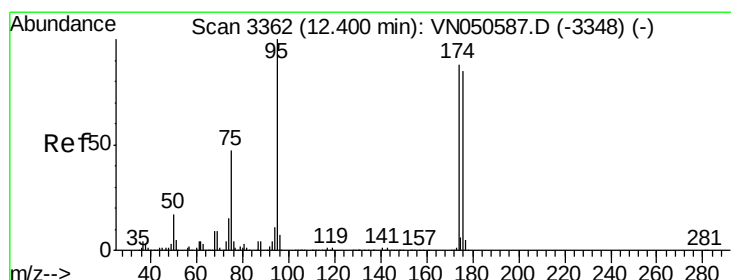
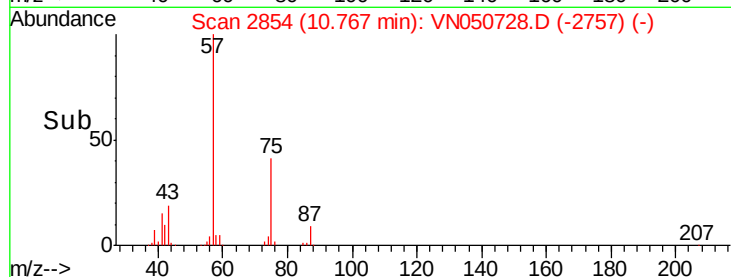
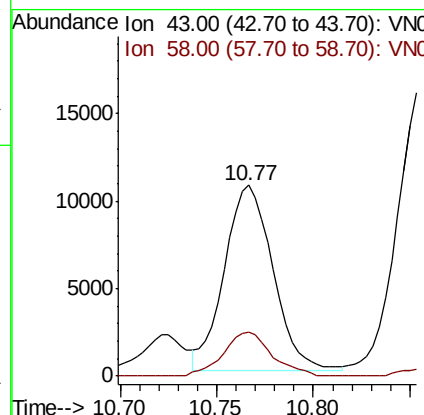
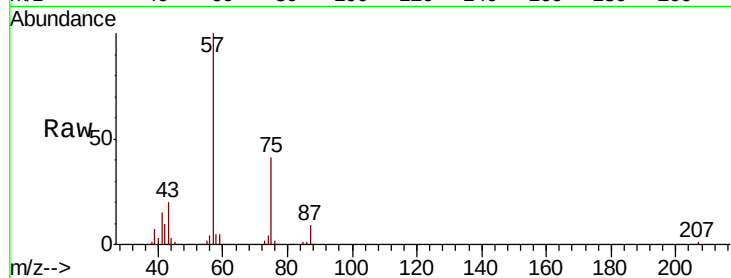




#59
2-Hexanone
Concen: 3.63 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

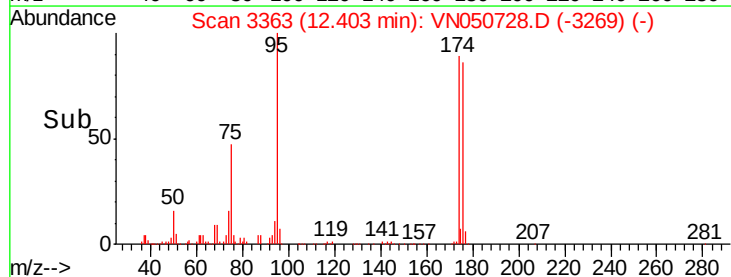
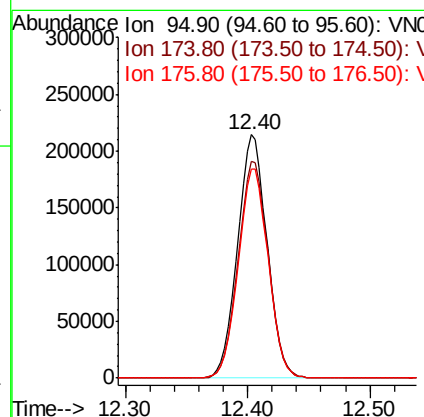
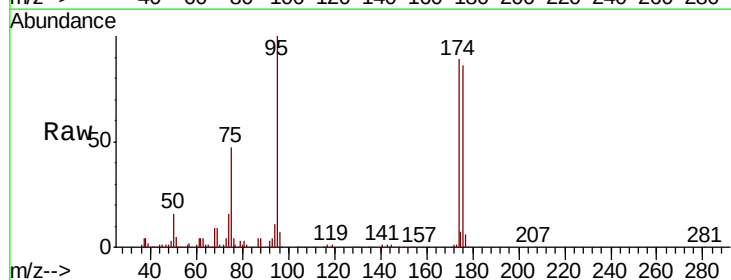
Instrument :
MSVOA_N
ClientSampleId :

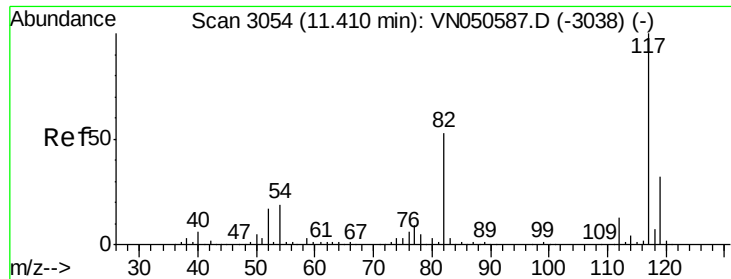
Tot Ion: 43 Resp: 18631
Ion Ratio Lower Upper
43 100
58 23.6 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 35.23 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

Tgt Ion: 95 Resp: 358294
Ion Ratio Lower Upper
95 100
174 90.9 0.0 177.8
176 87.5 0.0 175.0

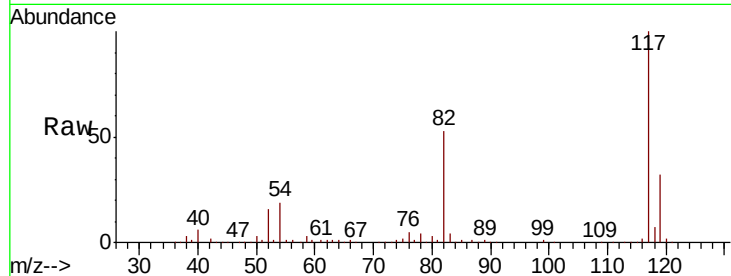




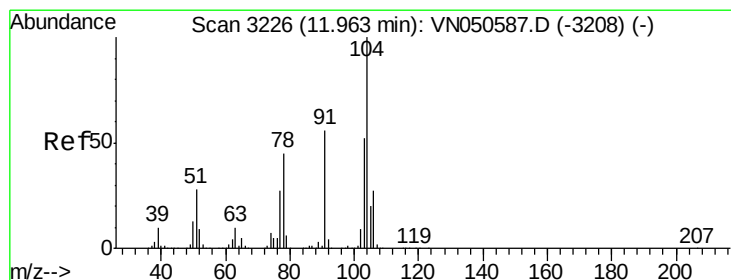
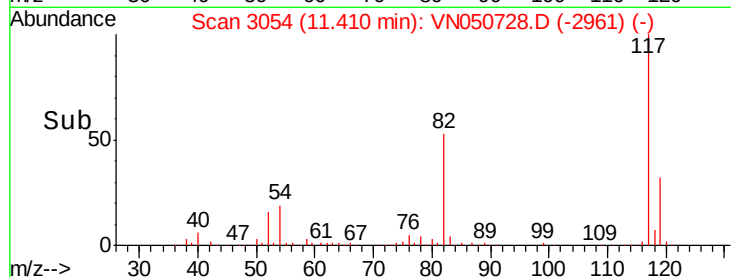
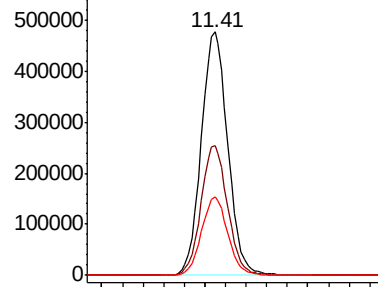
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 853199
Ion Ratio Lower Upper
117 100
82 53.1 42.4 63.6
119 32.1 25.8 38.8

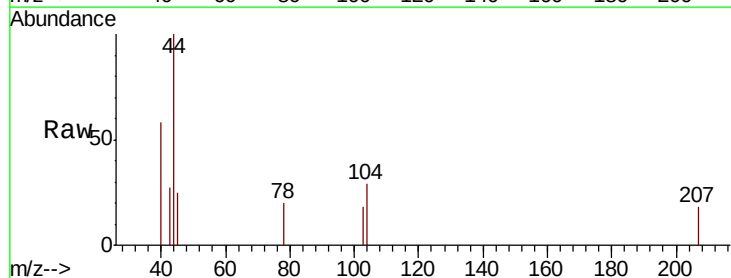


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

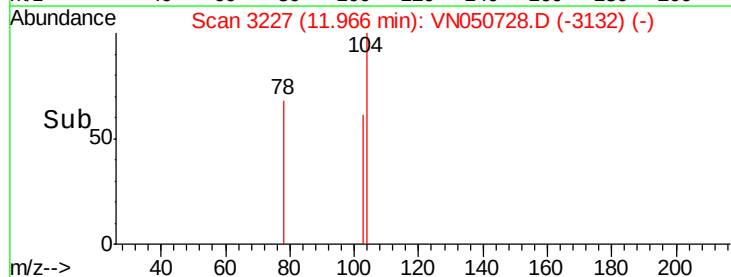
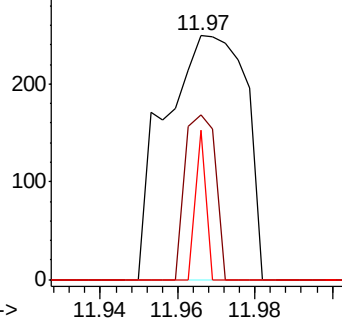


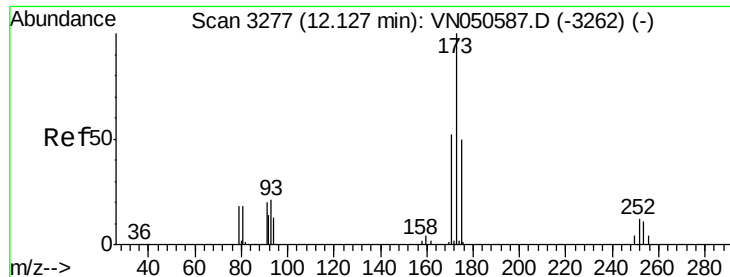
#70
Styrene
Concen: 0.96 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050728.D
Acq: 17 Aug 2018 14:23

Tgt Ion:104 Resp: 363
Ion Ratio Lower Upper
104 100
78 25.3 39.1 58.7#
103 8.3 44.9 67.3#



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





#71

Bromoform

Concen: 0.53 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

ClientSampleId :

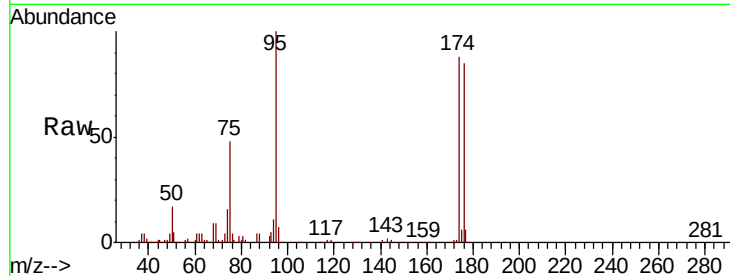
Tot Ion:173 Resp: 2812

Ion Ratio Lower Upper

173 100

175 693.8 24.4 73.2#

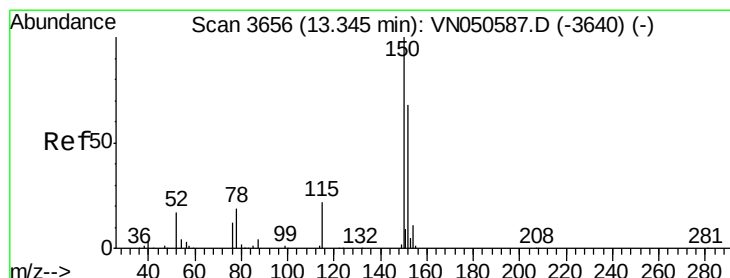
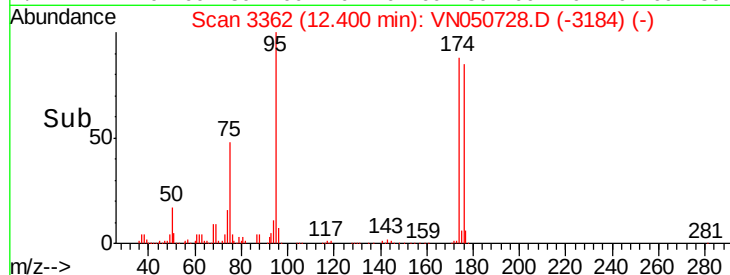
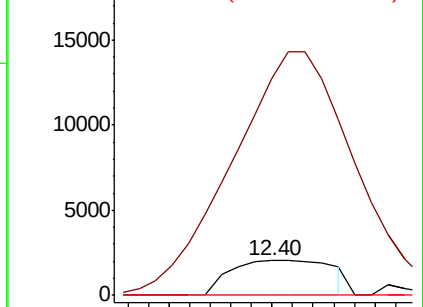
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

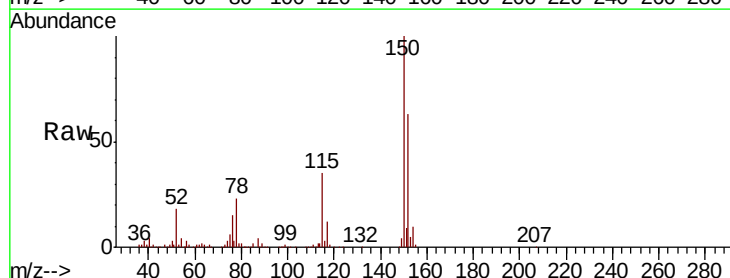
Tgt Ion:152 Resp: 269630

Ion Ratio Lower Upper

152 100

115 56.2 28.1 84.2

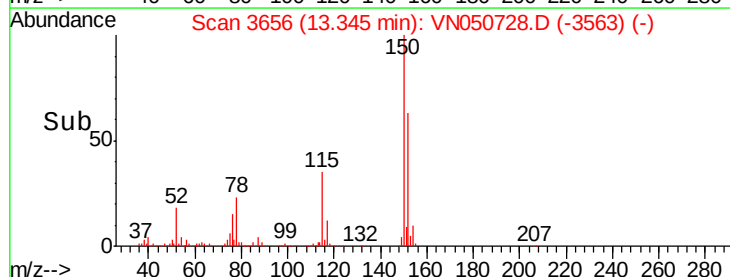
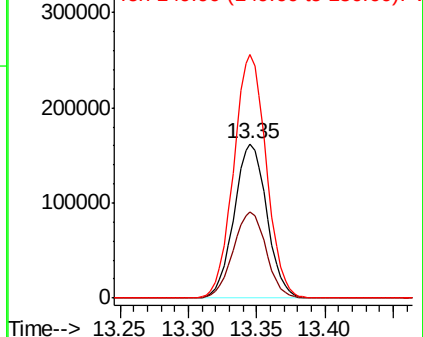
150 157.4 0.0 347.8

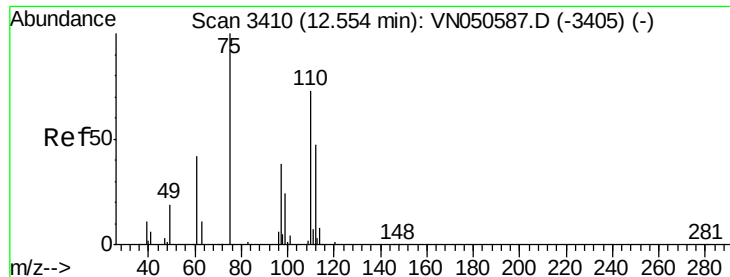


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.73 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

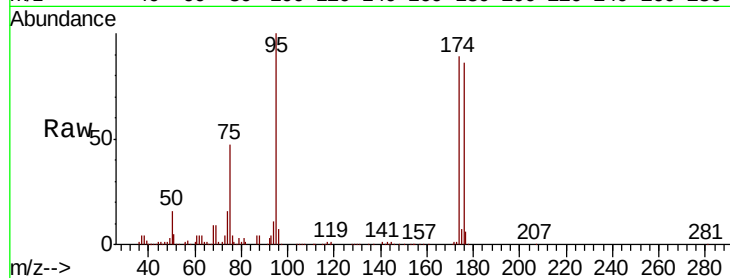
ClientSampleId :

Tot Ion: 75 Resp: 169747

Ion Ratio Lower Upper

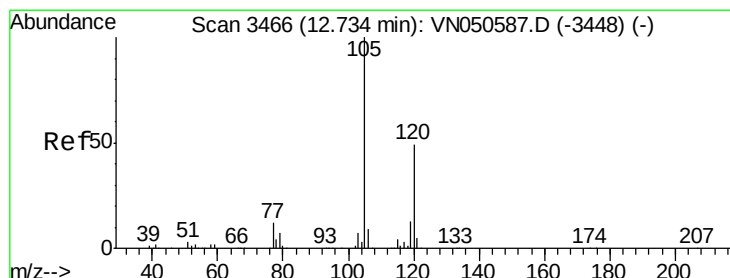
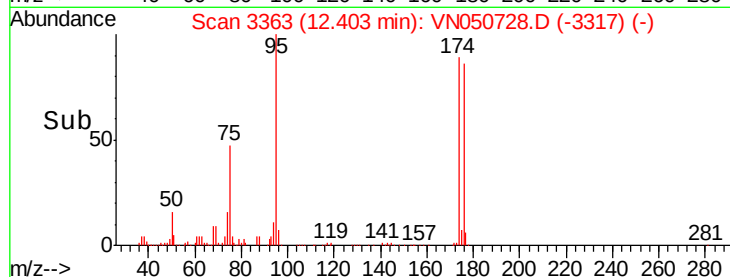
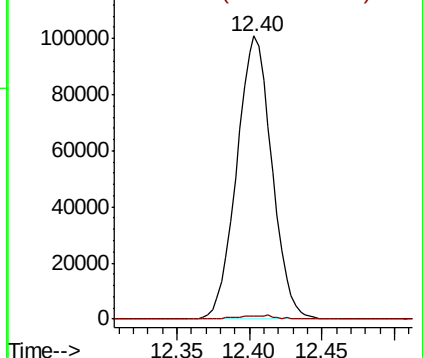
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050728.D

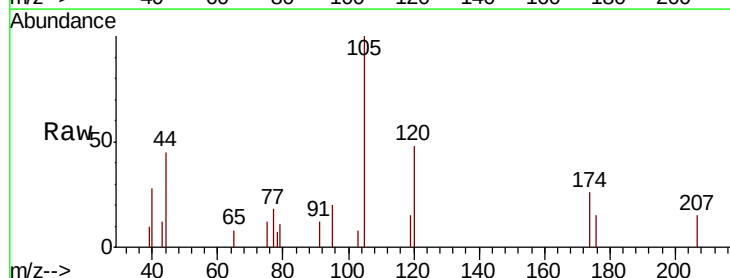
Acq: 17 Aug 2018 14:23

Tgt Ion: 105 Resp: 3659

Ion Ratio Lower Upper

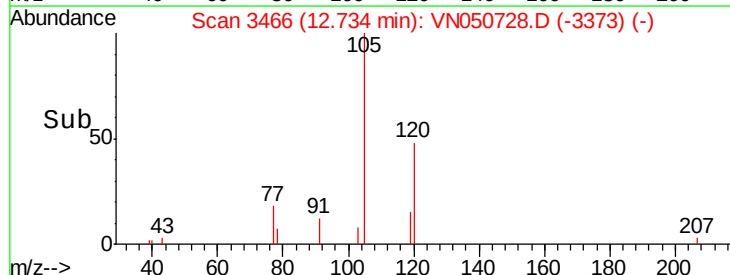
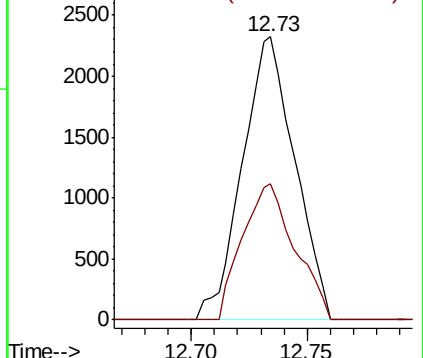
105 100

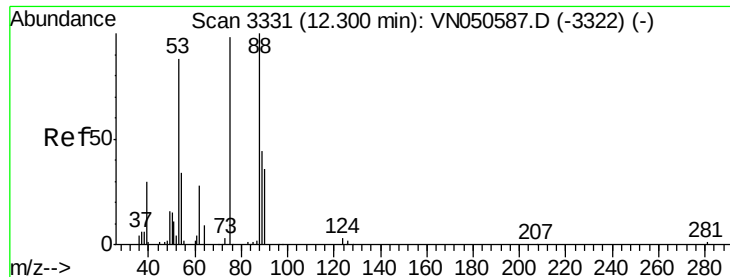
120 48.0 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 139.96 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

ClientSampleId :

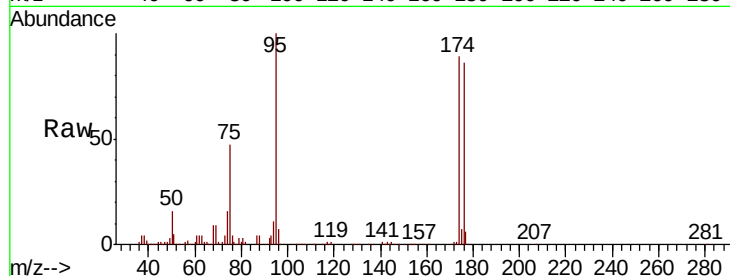
Tot Ion: 75 Resp: 169747

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

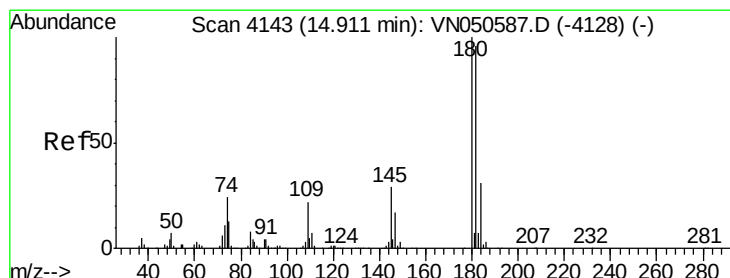
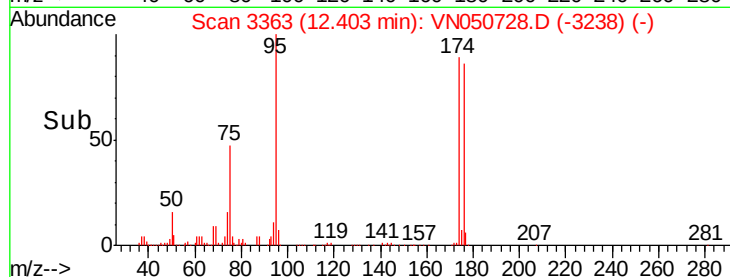
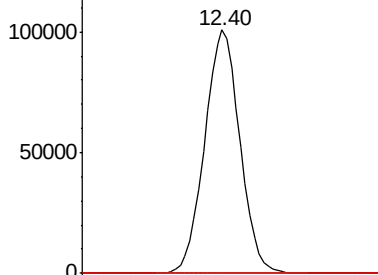
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN050728.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN050728.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN050728.D (-3363) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.71 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

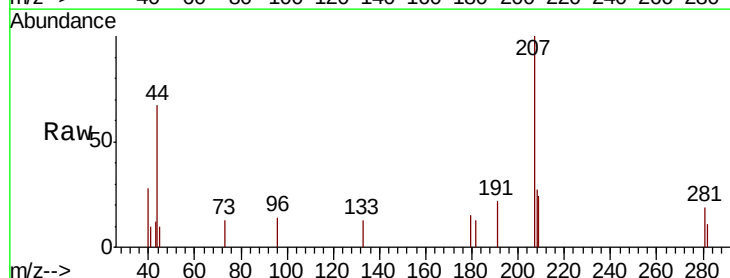
Tgt Ion: 180 Resp: 191

Ion Ratio Lower Upper

180 100

182 165.4 47.9 143.7#

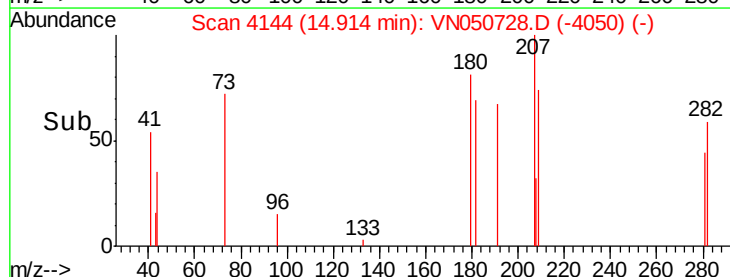
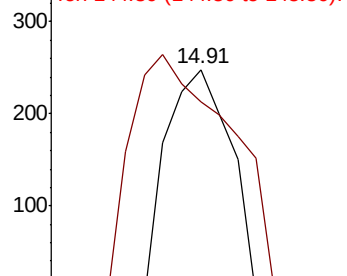
145 0.0 14.4 43.4#

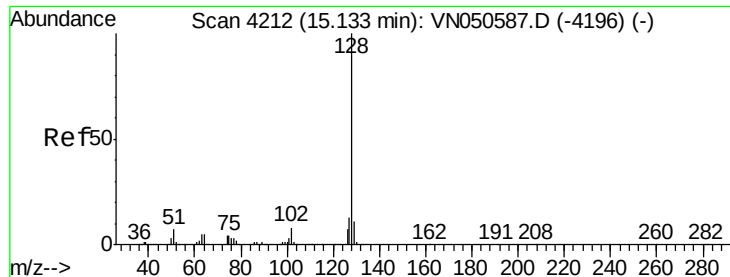


Abundance Ion 179.80 (179.50 to 180.50): VN050728.D (-4144) (-)

Ion 181.80 (181.50 to 182.50): VN050728.D (-4144) (-)

Ion 144.80 (144.50 to 145.50): VN050728.D (-4144) (-)





#95

Naphthalene

Concen: 3.93 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

Instrument :

MSVOA_N

ClientSampled :

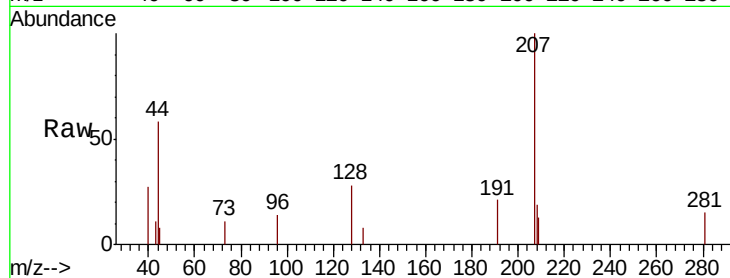
Tot Ion:128 Resp: 771

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

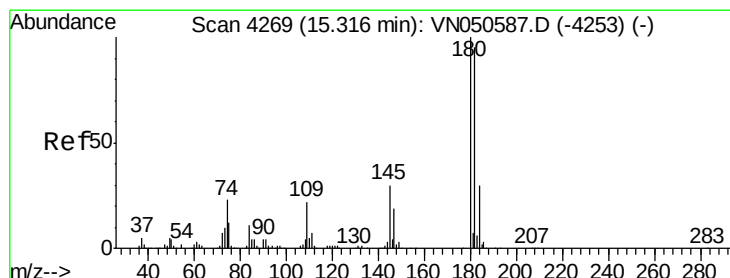
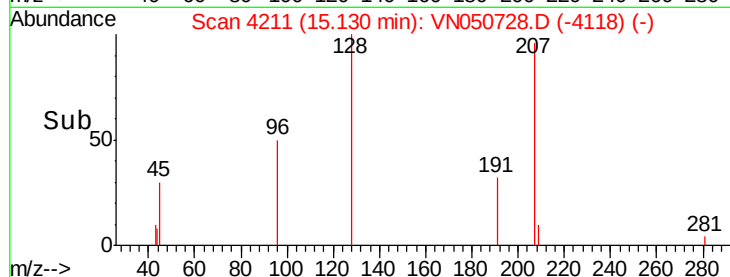
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13

15.13

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.00 ug/l

RT: 15.32 min Scan# 4271

Delta R.T. 0.01 min

Lab File: VN050728.D

Acq: 17 Aug 2018 14:23

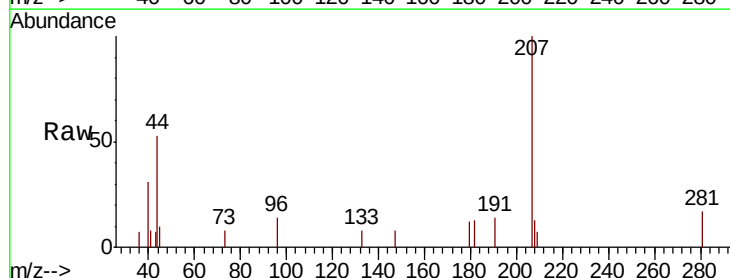
Tgt Ion:180 Resp: 288

Ion Ratio Lower Upper

180 100

182 102.8 47.3 141.8

145 0.0 14.6 44.0#



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

15.32

15.32

Time-->

