

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049826.D
 Acq On : 14 Jul 2018 4:39
 Operator : MD\SY
 Sample : J3975-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SV30518L

Quant Time: Jul 14 05:04:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1131630	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1833696	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1487235	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	538672	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	763585	58.01	ug/l	0.00
Spiked Amount			Recovery	=	116.02%	
35) Dibromofluoromethane	7.59	113	718048	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
50) Toluene-d8	10.09	98	2437789	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
62) 4-Bromofluorobenzene	12.40	95	661082	39.12	ug/l	0.00
Spiked Amount			Recovery	=	78.24%	

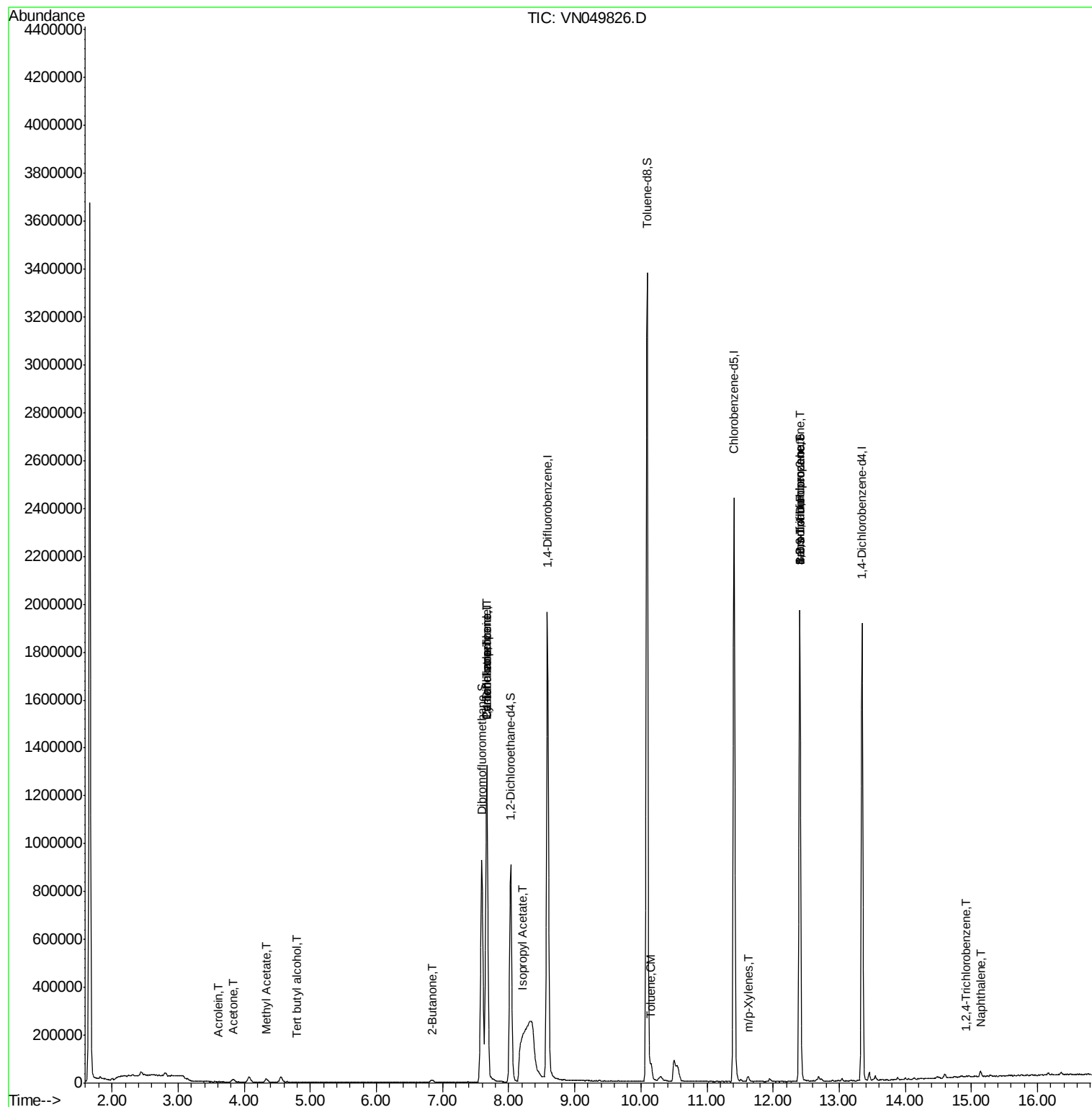
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1889	Below Cal	#	67
4) Vinyl Chloride	2.18	62	716	Below Cal	#	64
5) Bromomethane	2.56	94	648	Below Cal	#	6
11) Tert butyl alcohol	4.79	59	258	0.29	ug/l	# 72
13) Acrolein	3.61	56	233	0.30	ug/l	# 85
16) Acetone	3.83	43	18172	3.56	ug/l	# 97
17) Carbon Disulfide	4.05	76	7923	Below Cal	#	87
18) Methyl Acetate	4.34	43	25436	1.60	ug/l	# 93
25) 2-Butanone	6.84	43	1883	0.37	ug/l	# 66
31) Cyclohexane	7.67	56	22159	0.83	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	78650	3.72	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	100941	4.57	ug/l	# 17
43) Isopropyl Acetate	8.21	43	199543	8.88	ug/l	# 62
52) Toluene	10.16	92	20170	0.53	ug/l	# 100
55) 1,1,2-Trichloroethane	10.57	97	132	Below Cal	#	15
68) m/p-Xylenes	11.62	106	7308	0.31	ug/l	# 92
71) Bromoform	12.40	173	5140	0.52	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.53	83	77	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	328173	34.29	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	328173	110.75	ug/l	# 13
90) Hexachloroethane	13.90	117	161	Below Cal	#	4
92) 1,2-Dibromo-3-Chloropropan	14.27	75	198	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.92	180	172	2.90	ug/l	# 60
95) Naphthalene	15.14	128	19500	4.78	ug/l	# 99

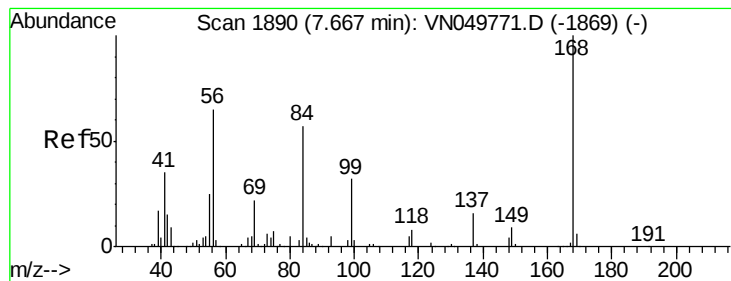
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 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: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

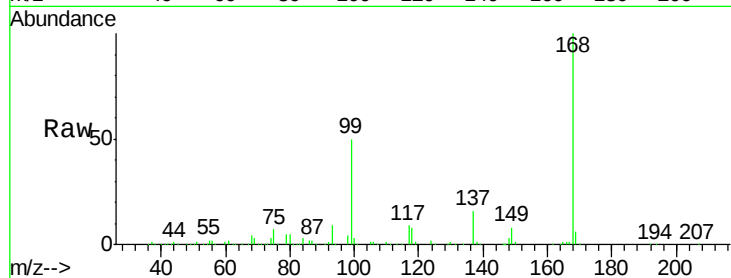
SV30518L

Tot Ion:168 Resp: 1131630

Ion Ratio Lower Upper

168 100

99 49.9 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN049826.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049826.D (-1797) (-)

7.67

500000

400000

300000

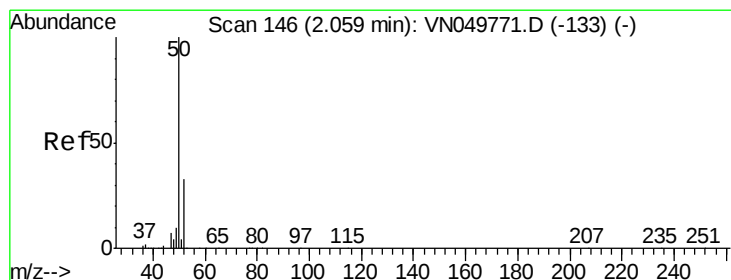
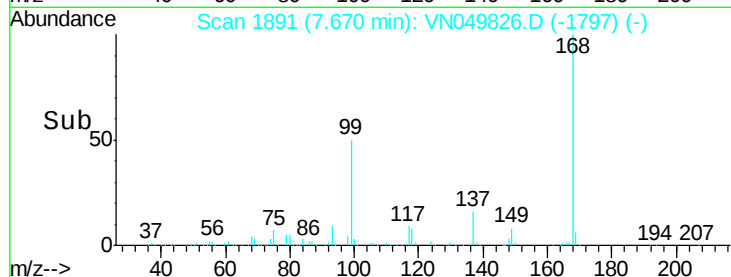
200000

100000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049826.D

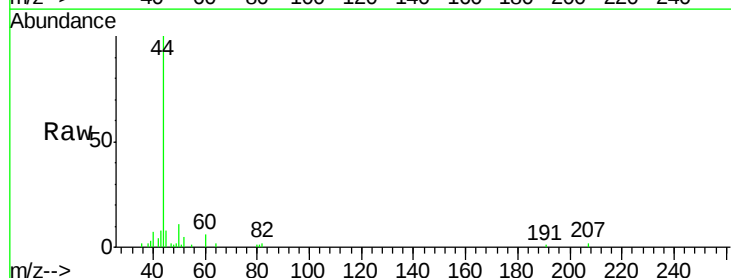
Acq: 14 Jul 2018 4:39

Tgt Ion: 50 Resp: 1889

Ion Ratio Lower Upper

50 100

52 51.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN049826.D (-53) (-)

Ion 51.90 (51.60 to 52.60): VN049826.D (-53) (-)

2.06

1500

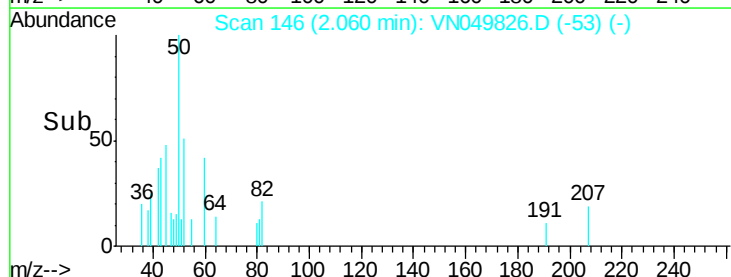
1000

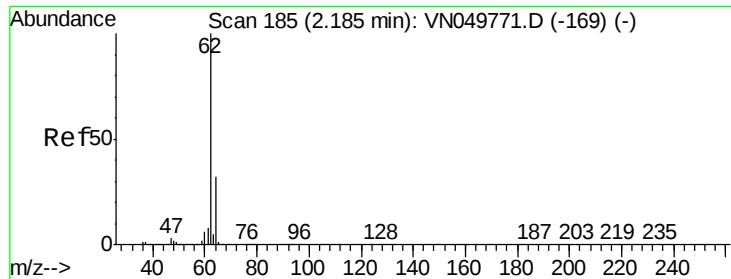
500

0

2.02 2.04 2.06 2.08 2.10

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampled :

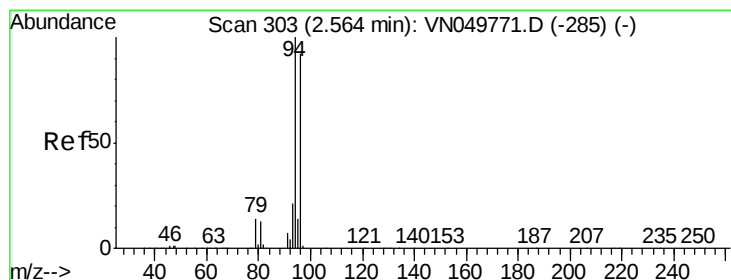
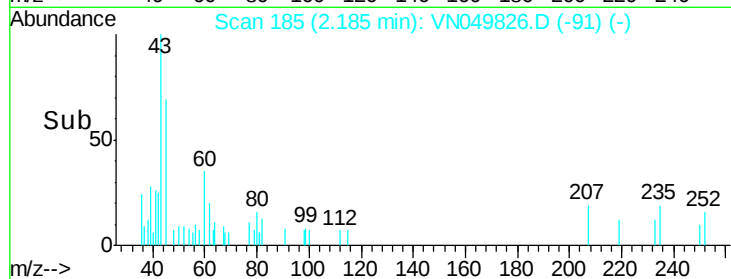
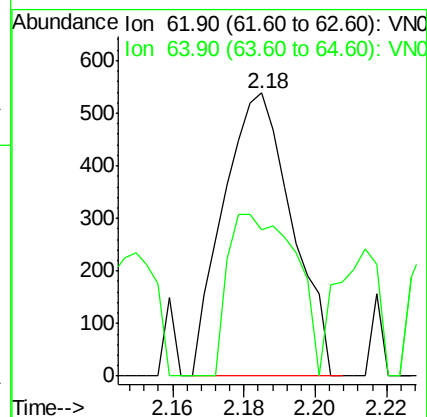
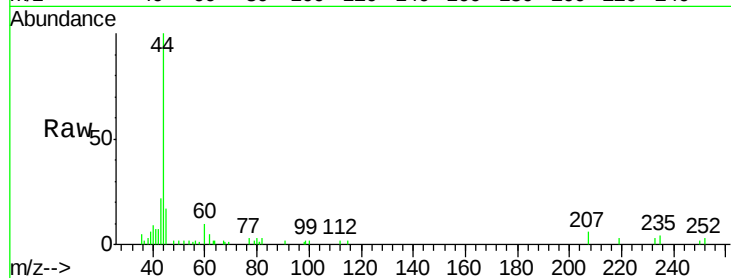
SV30518L

Tot Ion: 62 Resp: 716

Ion Ratio Lower Upper

62 100

64 51.9 25.4 38.0#



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN049826.D

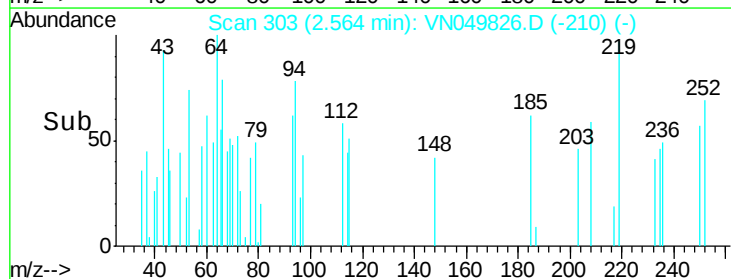
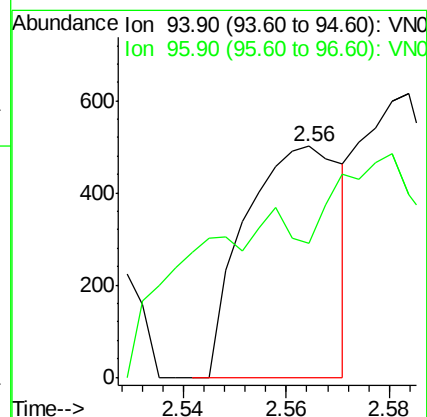
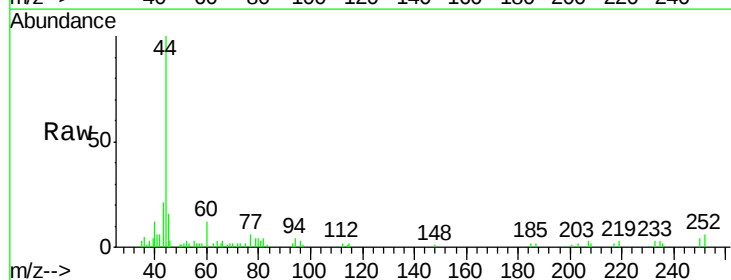
Acq: 14 Jul 2018 4:39

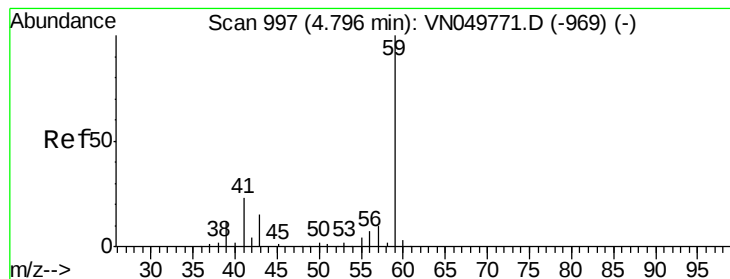
Tgt Ion: 94 Resp: 648

Ion Ratio Lower Upper

94 100

96 3.8 75.7 113.5#





#11

Tert butyl alcohol

Concen: 0.29 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.00 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

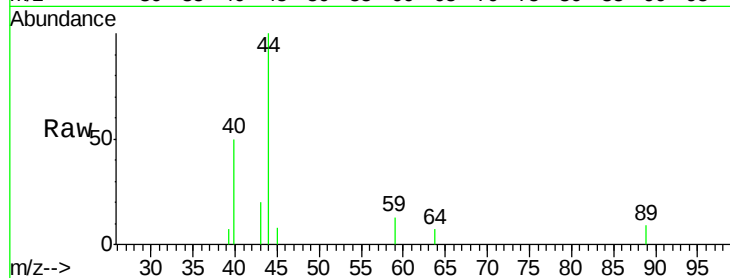
SV30518L

Tot Ion: 59 Resp: 258

Ion Ratio Lower Upper

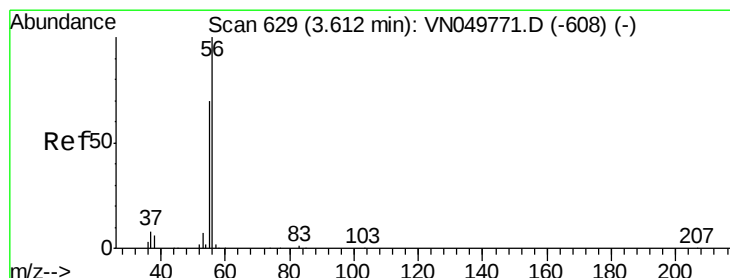
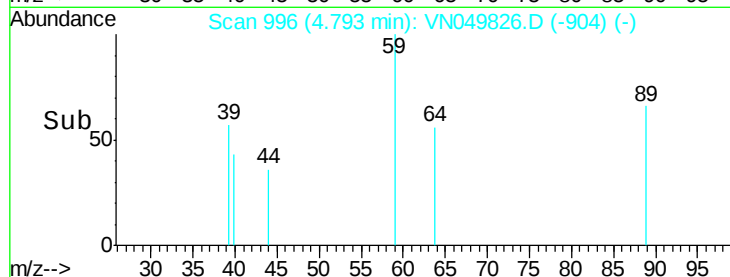
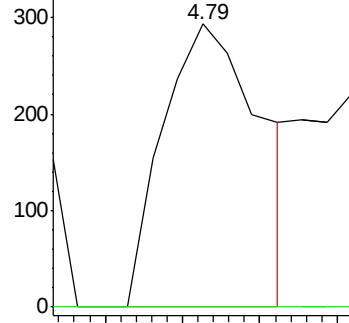
59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 0.30 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049826.D

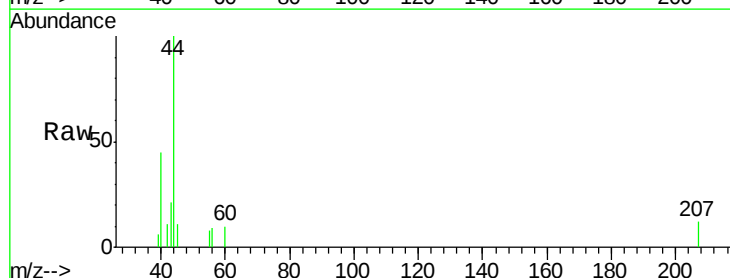
Acq: 14 Jul 2018 4:39

Tgt Ion: 56 Resp: 233

Ion Ratio Lower Upper

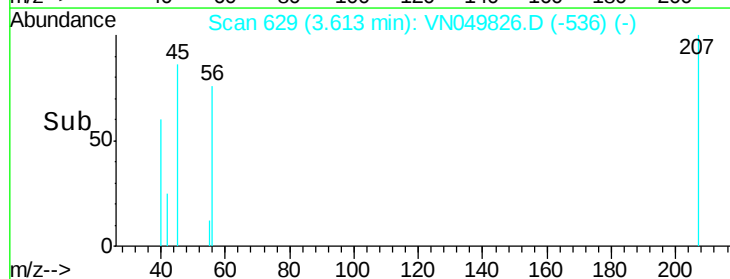
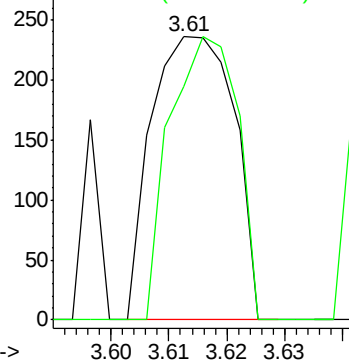
56 100

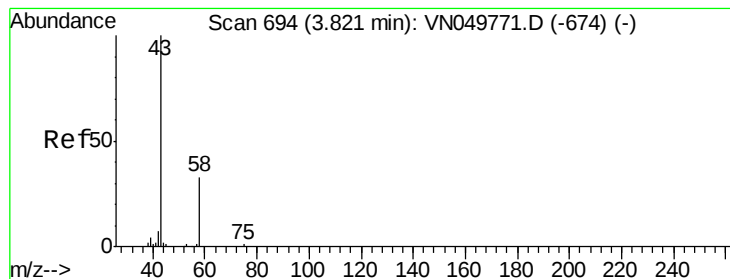
55 82.0 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 3.56 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

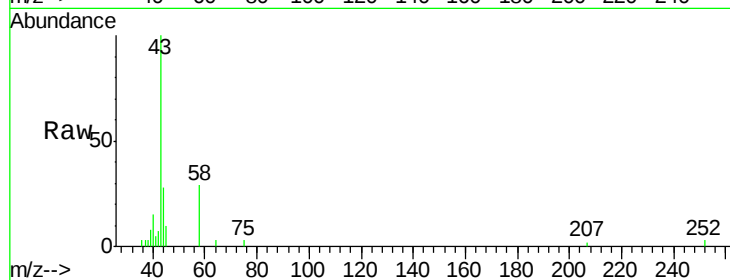
SV30518L

Tot Ion: 43 Resp: 18172

Ion Ratio Lower Upper

43 100

58 30.9 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049826.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN049826.D (-601) (-)

3.83

8000

6000

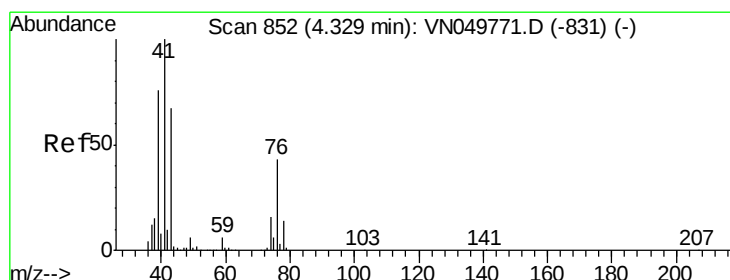
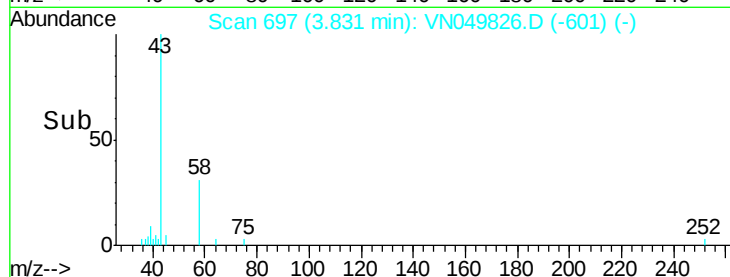
4000

2000

0

Time-->

3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 1.60 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049826.D

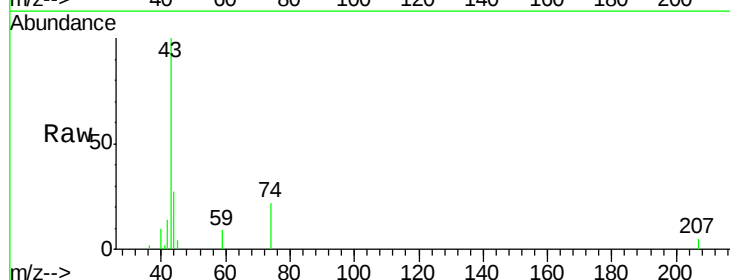
Acq: 14 Jul 2018 4:39

Tgt Ion: 43 Resp: 25436

Ion Ratio Lower Upper

43 100

74 21.1 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049826.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN049826.D (-759) (-)

4.34

10000

8000

6000

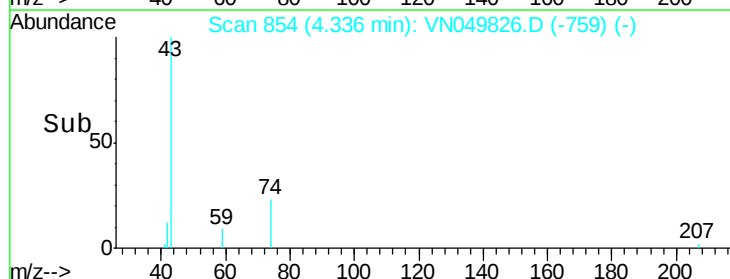
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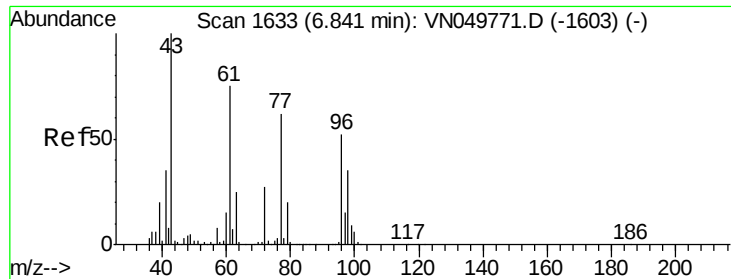
2000

0

Time-->

4.25 4.30 4.35 4.40





#25

2-Butanone

Concen: 0.37 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampled :

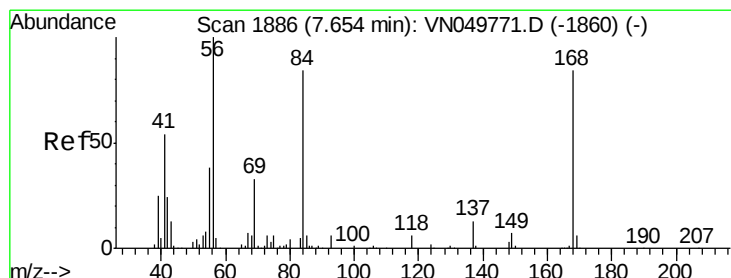
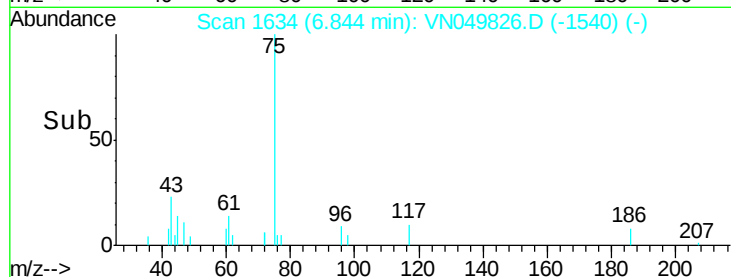
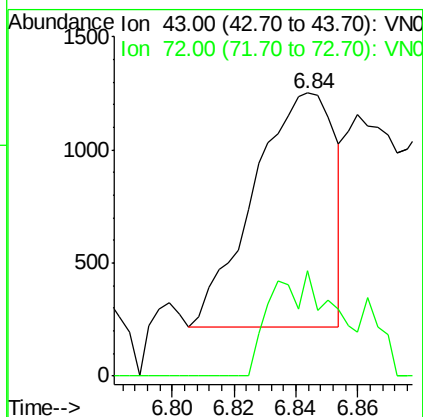
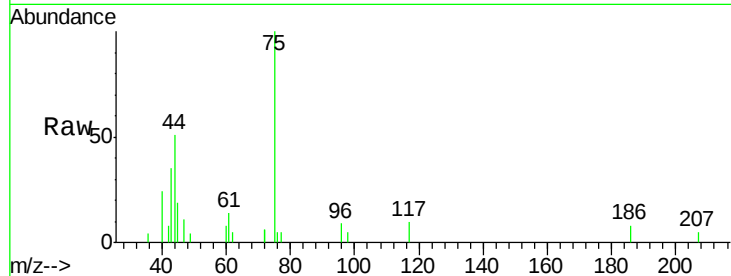
SV30518L

Tot Ion: 43 Resp: 1883

Ion Ratio Lower Upper

43 100

72 45.1 22.1 33.1#



#31

Cyclohexane

Concen: 0.83 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

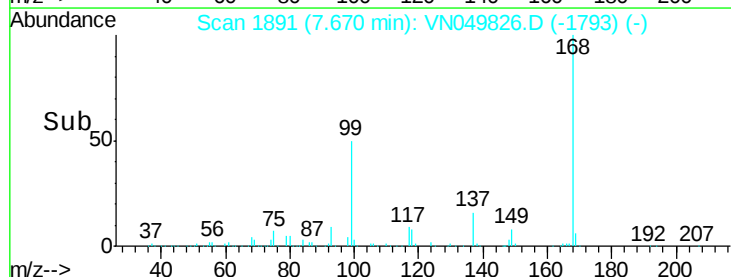
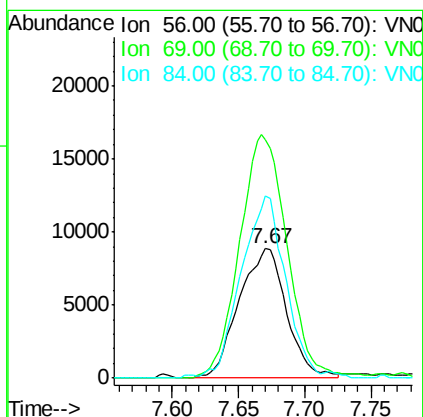
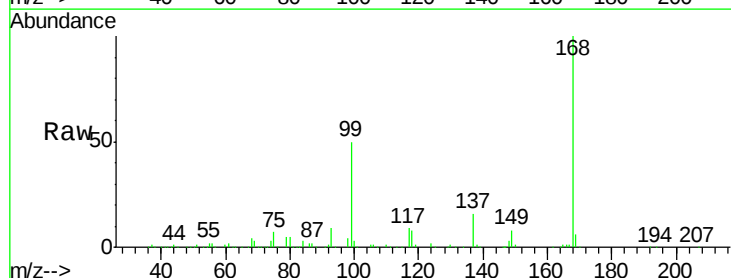
Tgt Ion: 56 Resp: 22159

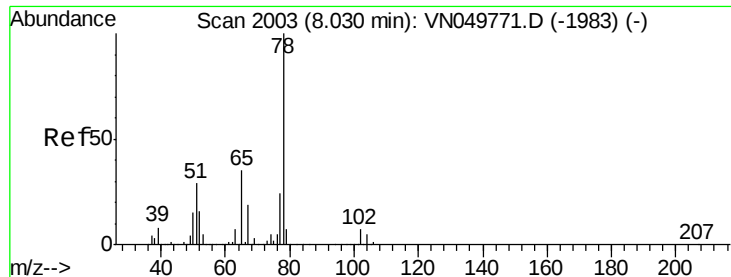
Ion Ratio Lower Upper

56 100

69 184.2 26.6 40.0#

84 137.8 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 58.01 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

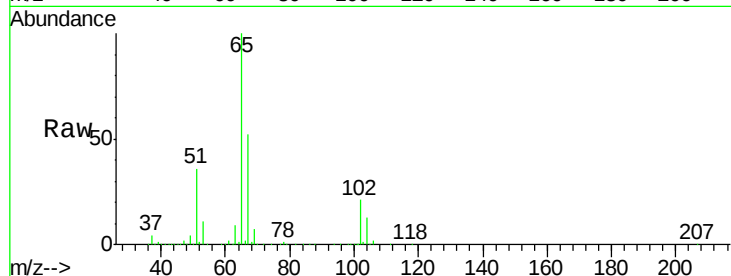
SV30518L

Tot Ion: 65 Resp: 763585

Ion Ratio Lower Upper

65 100

67 53.4 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049771.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049771.D (-1983) (-)

8.03

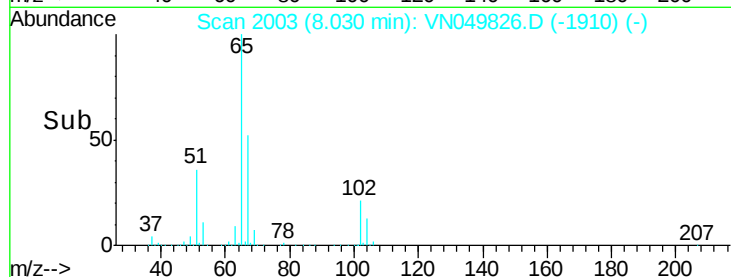
300000

200000

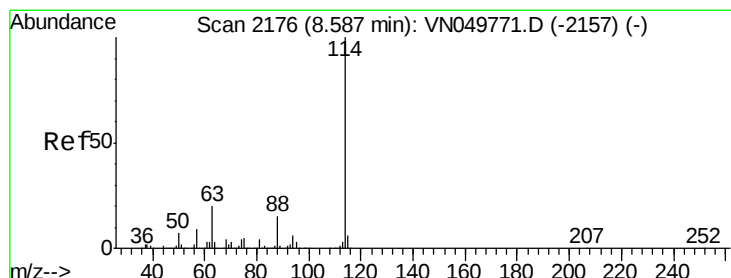
100000

0

Time-->



Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

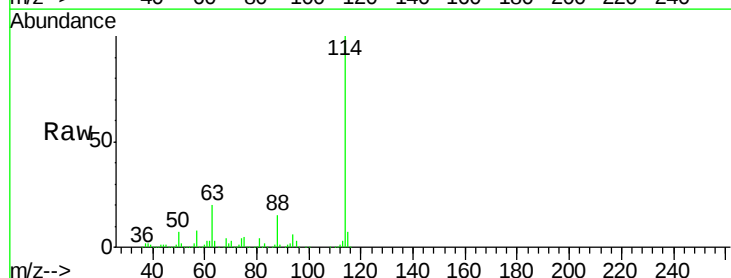
Tgt Ion: 114 Resp: 1833696

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

88 15.0 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049771.D (-2157) (-)

Ion 63.00 (62.70 to 63.70): VN049771.D (-2157) (-)

Ion 87.90 (87.60 to 88.60): VN049771.D (-2157) (-)

1200000

1000000

800000

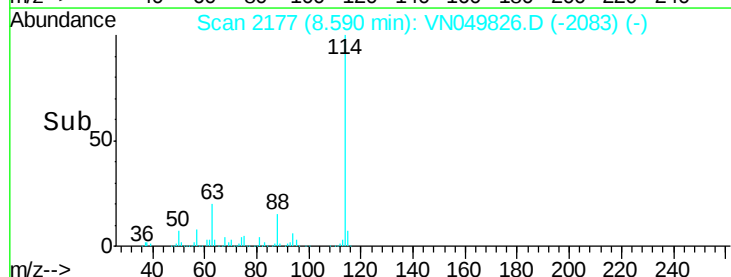
600000

400000

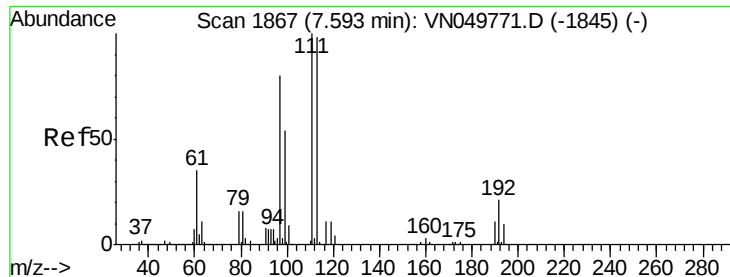
200000

0

Time-->



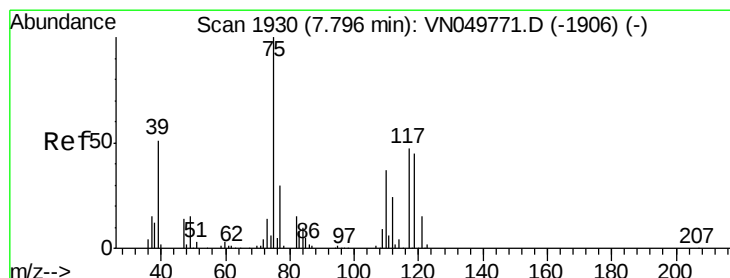
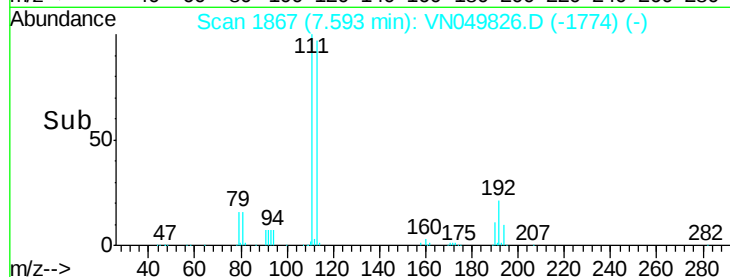
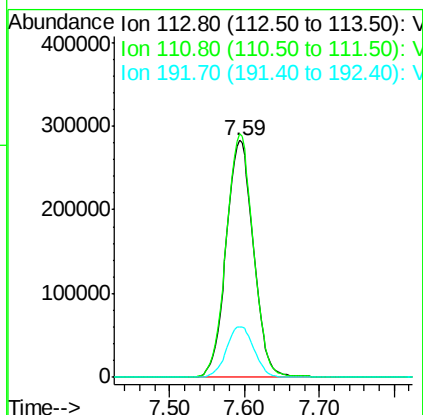
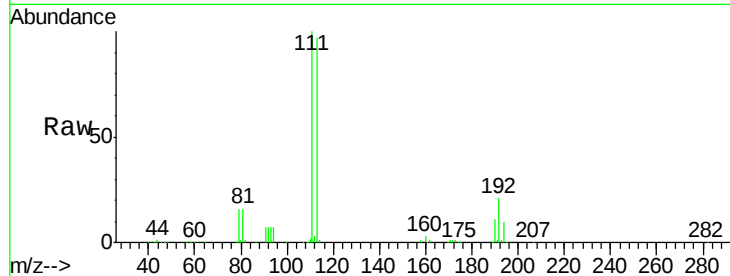
Time-->



#35
 Dibromofluoromethane
 Concen: 51.95 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049826.D
 Acq: 14 Jul 2018 4:39

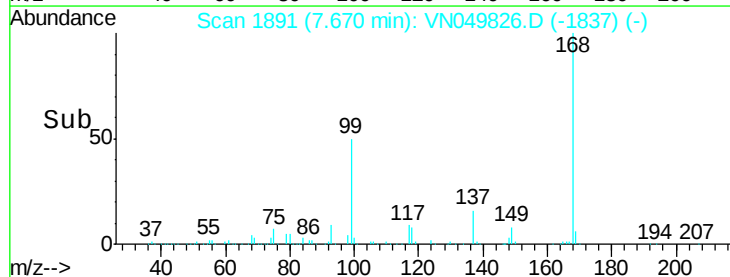
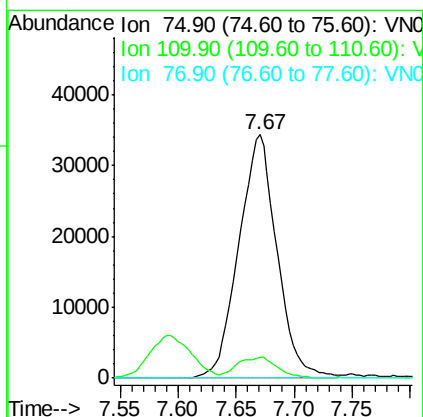
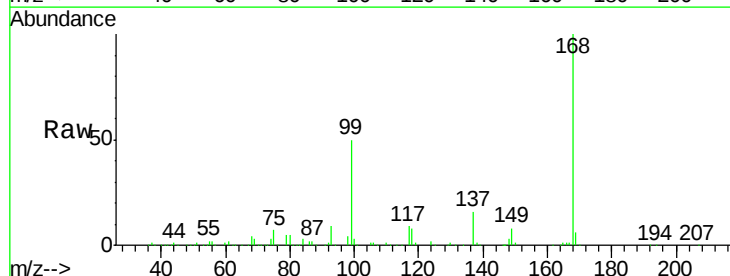
Instrument :
 MSVOA_N
 ClientSampleId :
 SV30518L

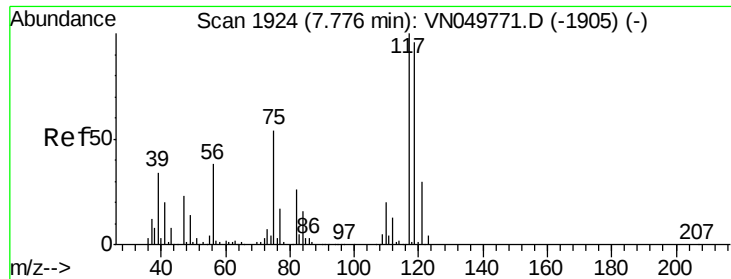
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	21.5	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN049826.D
 Acq: 14 Jul 2018 4:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.4#
77	0.0	24.9	37.3#

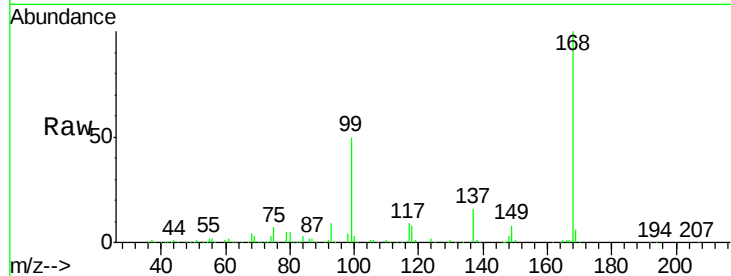




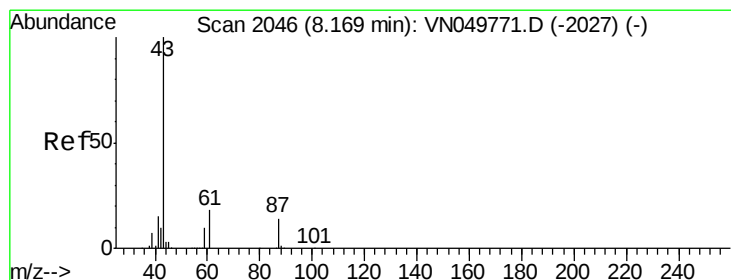
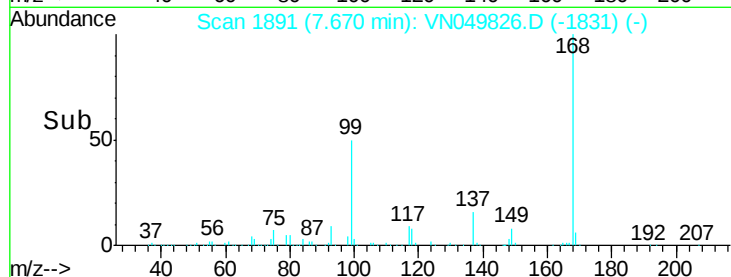
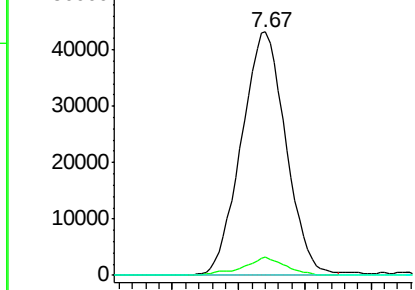
#38
Carbon Tetrachloride
Concen: 4.57 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049826.D
Acq: 14 Jul 2018 4:39

Instrument :
MSVOA_N
ClientSampleId :
SV30518L

Tot Ion:117 Resp: 100941
Ion Ratio Lower Upper
117 100
119 7.3 77.2 115.8#
121 0.0 25.0 37.6#

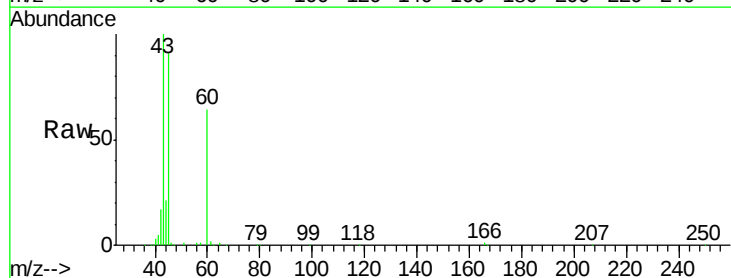


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

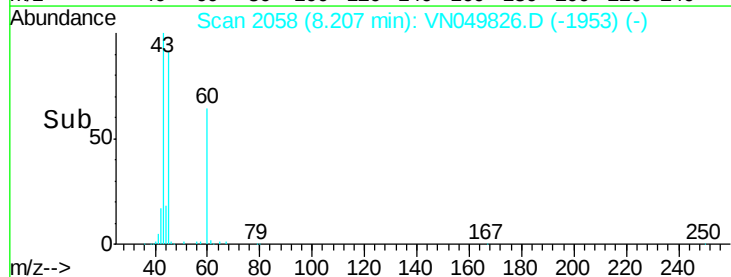
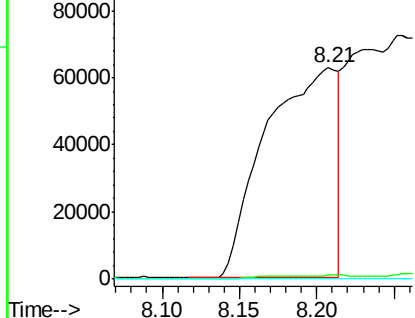


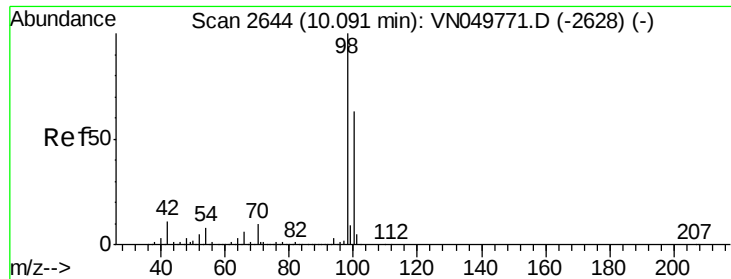
#43
Isopropyl Acetate
Concen: 8.88 ug/l
RT: 8.21 min Scan# 2058
Delta R.T. 0.04 min
Lab File: VN049826.D
Acq: 14 Jul 2018 4:39

Tgt Ion: 43 Resp: 199543
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 51.52 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampled :

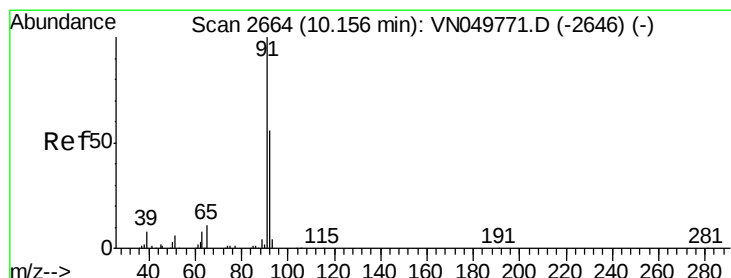
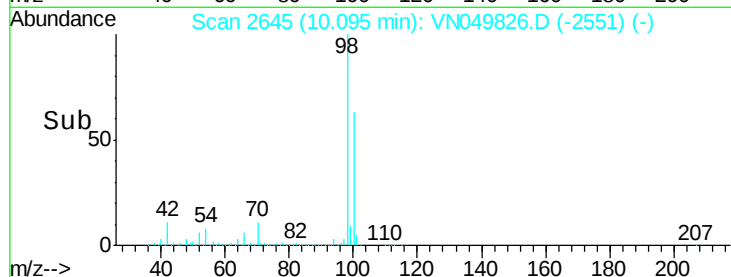
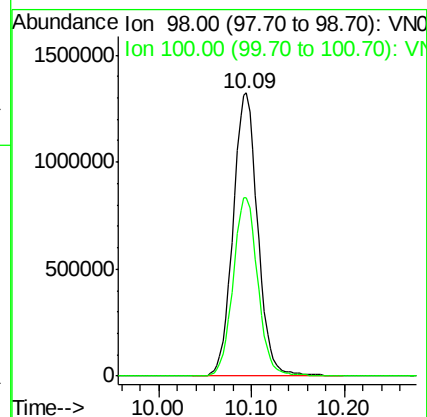
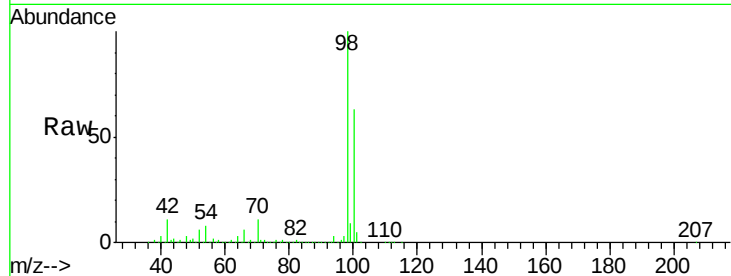
SV30518L

Tot Ion: 98 Resp: 2437789

Ion Ratio Lower Upper

98 100

100 63.4 51.7 77.5



#52

Toluene

Concen: 0.53 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN049826.D

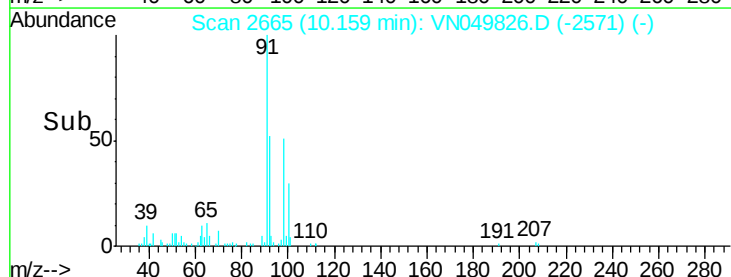
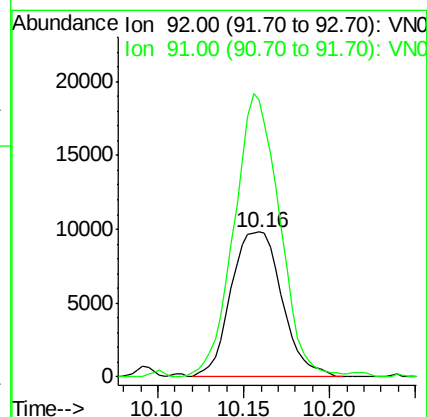
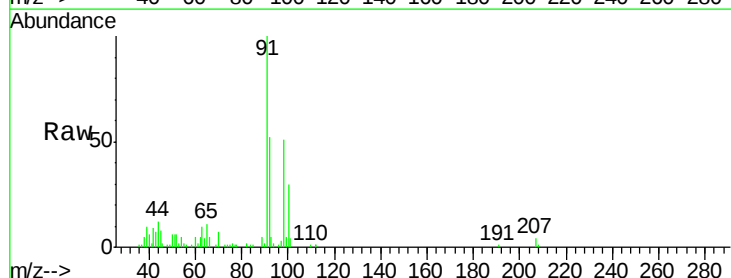
Acq: 14 Jul 2018 4:39

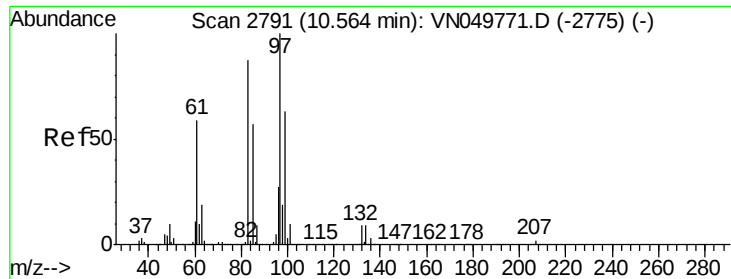
Tgt Ion: 92 Resp: 20170

Ion Ratio Lower Upper

92 100

91 175.1 140.1 210.1

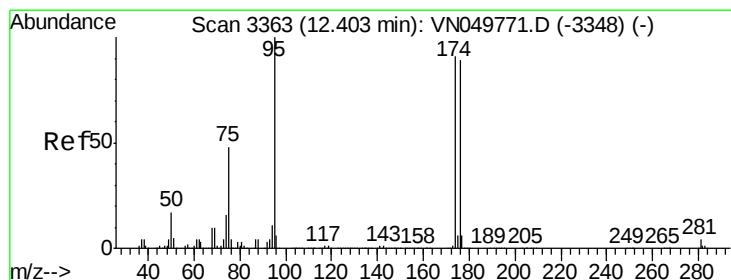
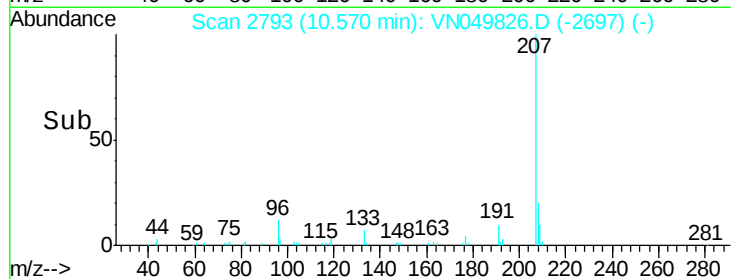
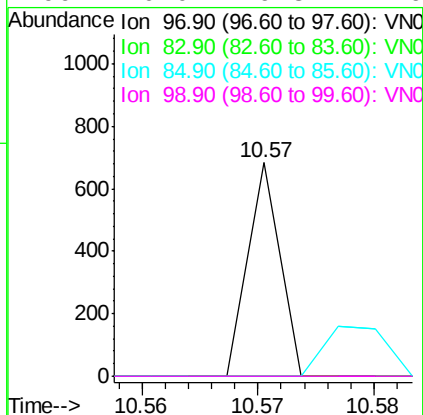
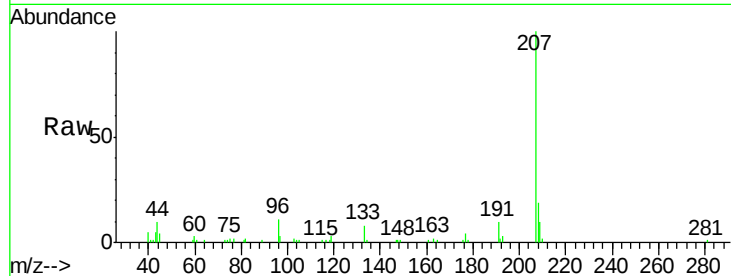




#55
 1,1,2-Trichloroethane
 Concen: Below Cal
 RT: 10.57 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN049826.D
 Acq: 14 Jul 2018 4:39

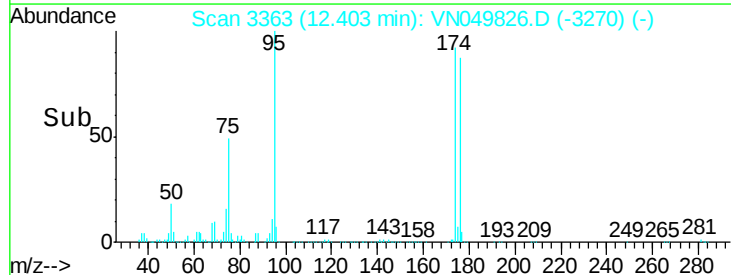
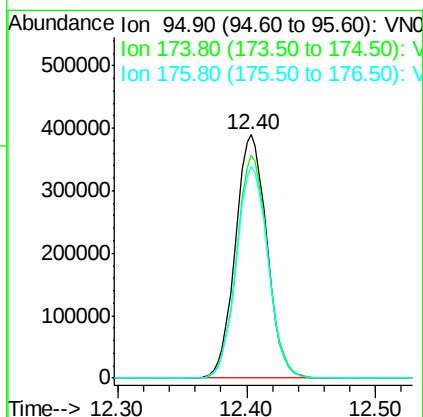
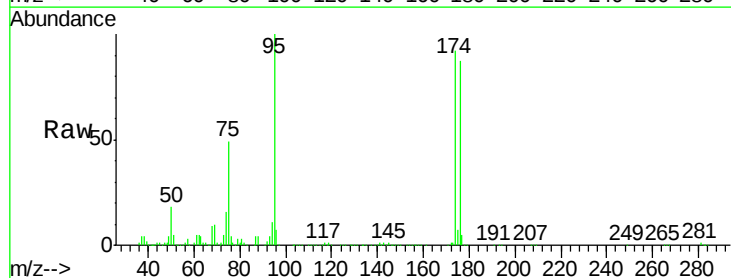
Instrument :
 MSVOA_N
 ClientSampleId :
 SV30518L

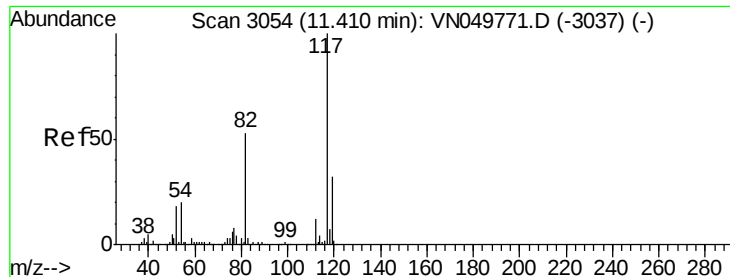
Tot Ion:	97	Resp:	132
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.0	103.6#
85	0.0	44.9	67.3#
99	0.0	49.8	74.6#



#62
 4-Bromofluorobenzene
 Concen: 39.12 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN049826.D
 Acq: 14 Jul 2018 4:39

Tgt Ion:	95	Resp:	661082
Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	179.6
176	87.2	0.0	174.0

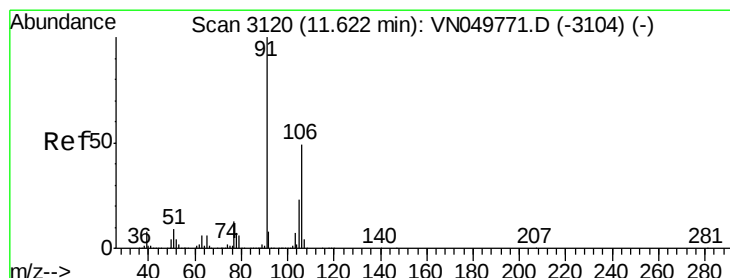
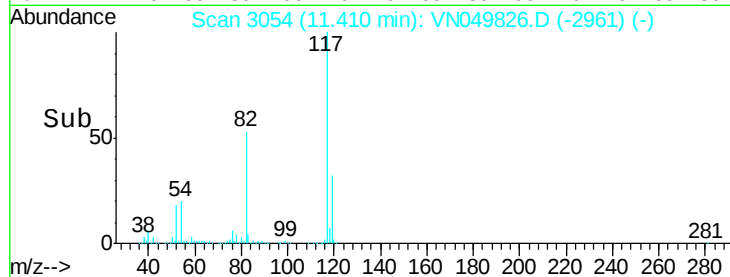
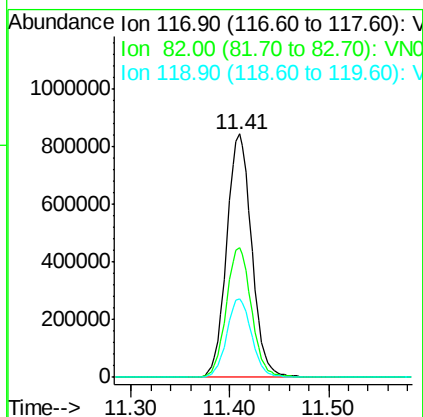
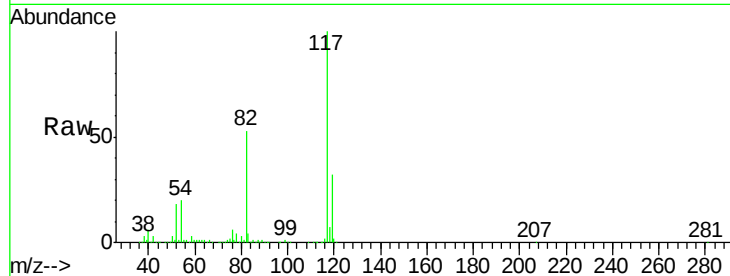




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049826.D
Acq: 14 Jul 2018 4:39

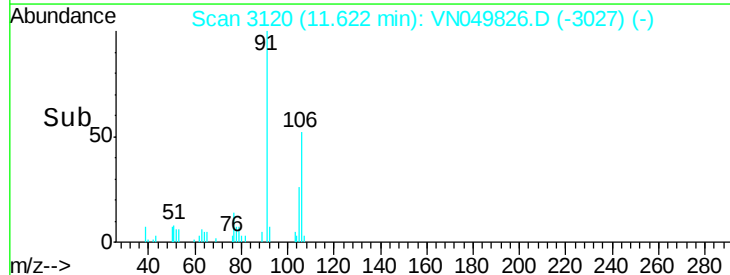
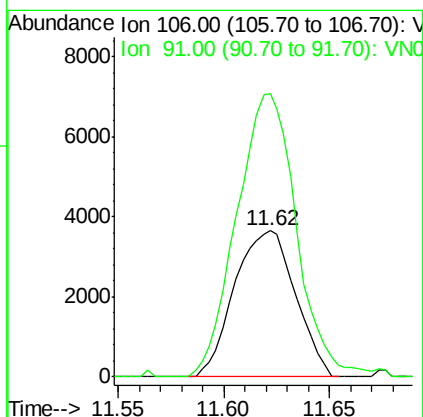
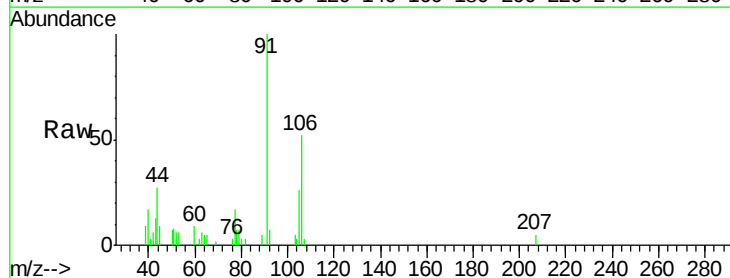
Instrument :
MSVOA_N
ClientSampled :
SV30518L

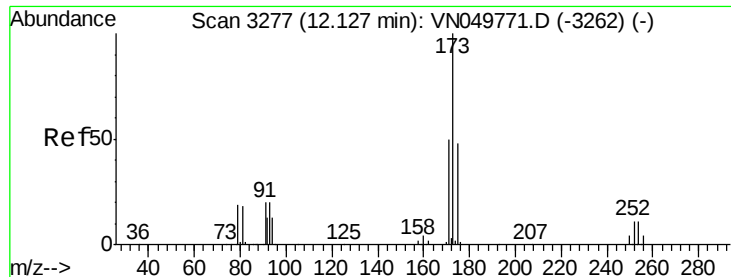
Tot Ion:117 Resp: 1487235
Ion Ratio Lower Upper
117 100
82 53.3 41.9 62.9
119 32.5 25.4 38.2



#68
m/p-Xylenes
Concen: 0.31 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN049826.D
Acq: 14 Jul 2018 4:39

Tgt Ion:106 Resp: 7308
Ion Ratio Lower Upper
106 100
91 191.7 163.4 245.2





#71

Bromoform

Concen: 0.52 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

SV30518L

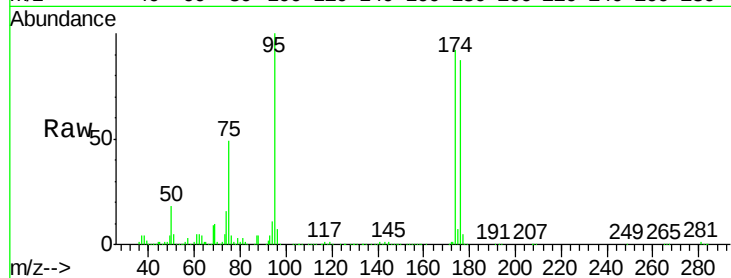
Tot Ion:173 Resp: 5140

Ion Ratio Lower Upper

173 100

175 716.8 24.6 73.8#

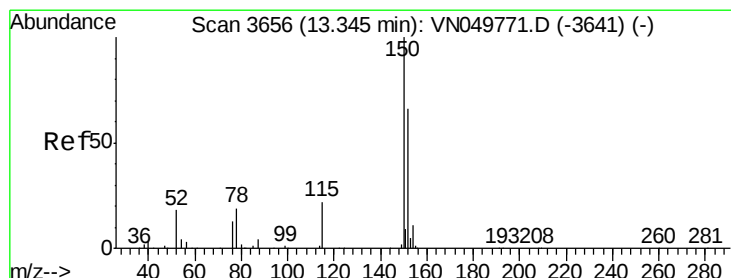
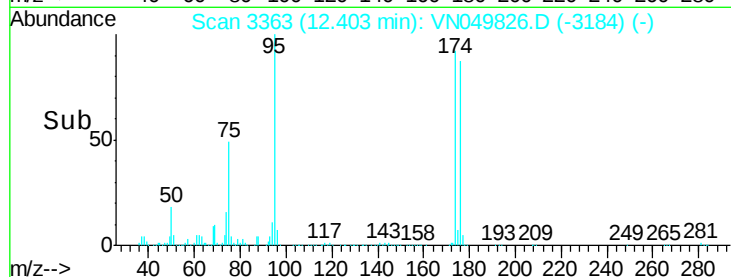
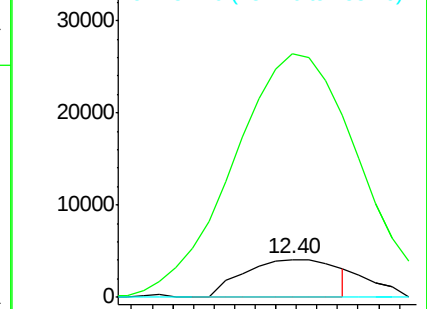
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

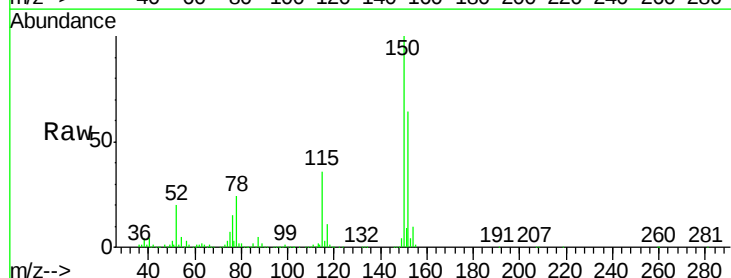
Tgt Ion:152 Resp: 538672

Ion Ratio Lower Upper

152 100

115 57.4 28.1 84.2

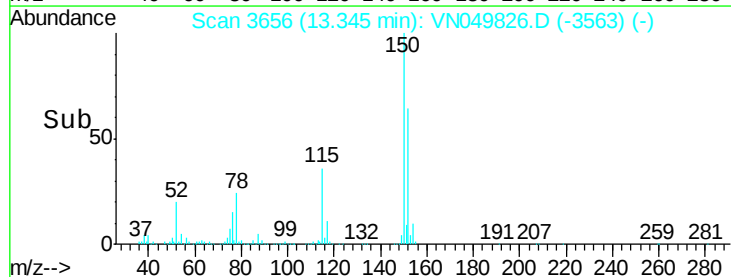
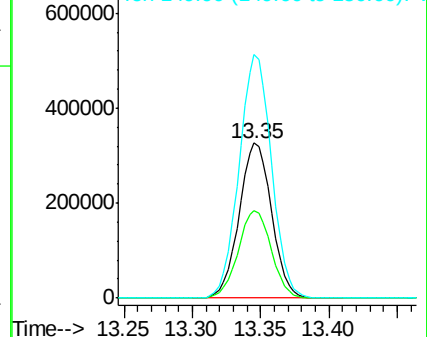
150 156.7 0.0 347.6

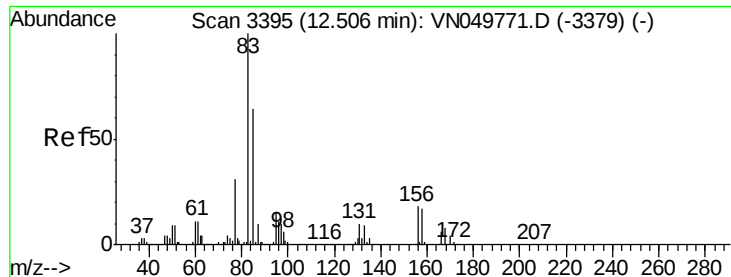


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.53 min Scan# 3403

Delta R.T. 0.03 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampled :

SV30518L

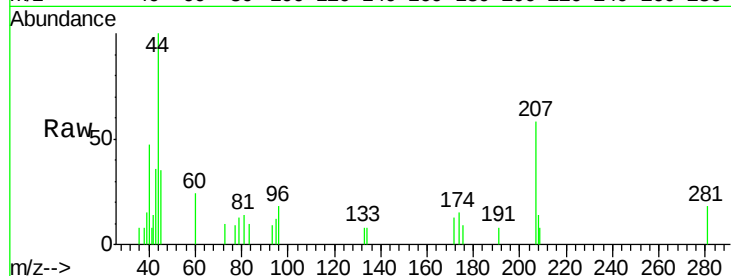
Tot Ion: 83 Resp: 77

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

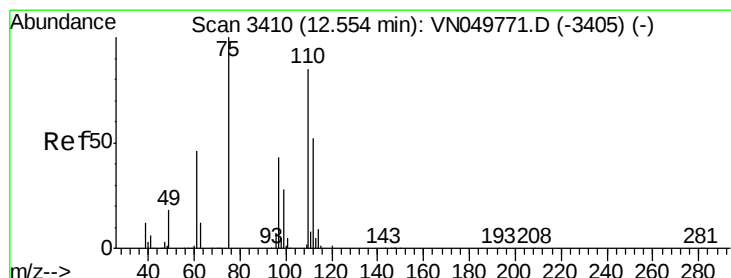
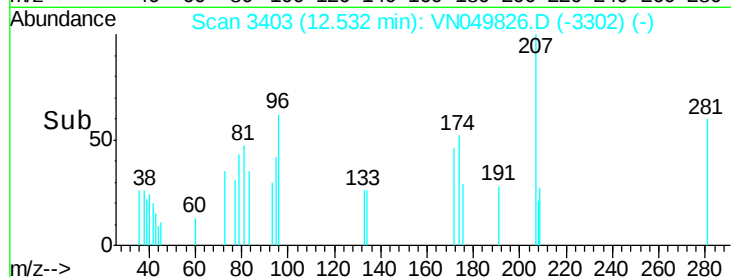
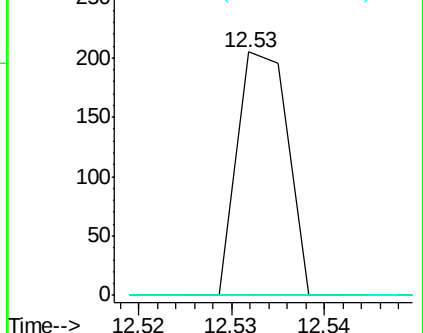
85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 34.29 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049826.D

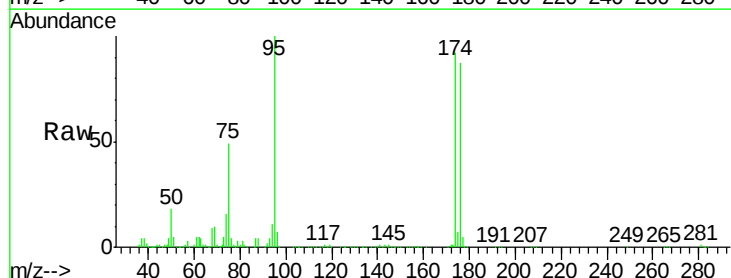
Acq: 14 Jul 2018 4:39

Tgt Ion: 75 Resp: 328173

Ion Ratio Lower Upper

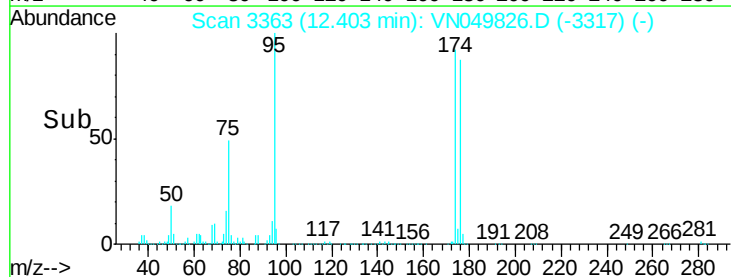
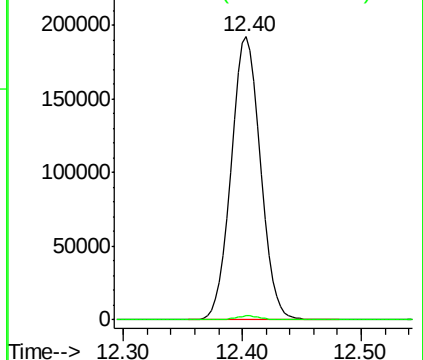
75 100

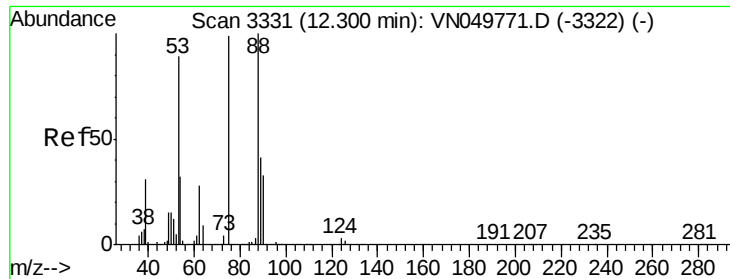
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 110.75 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049826.D

Acq: 14 Jul 2018 4:39

Instrument :

MSVOA_N

ClientSampled :

SV30518L

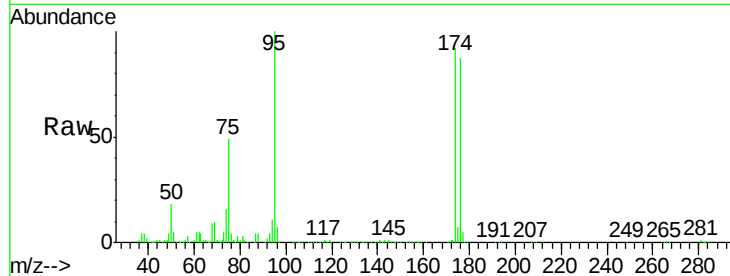
Tot Ion: 75 Resp: 328173

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

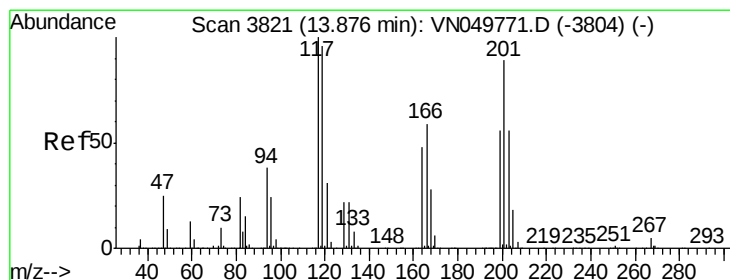
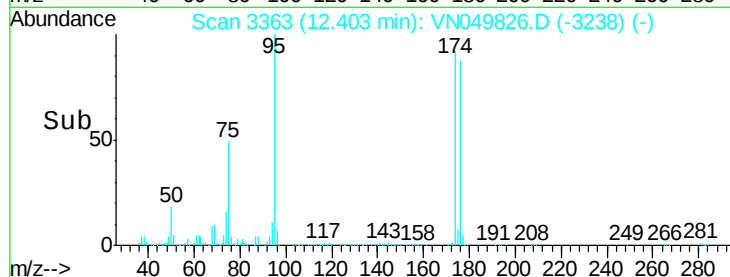
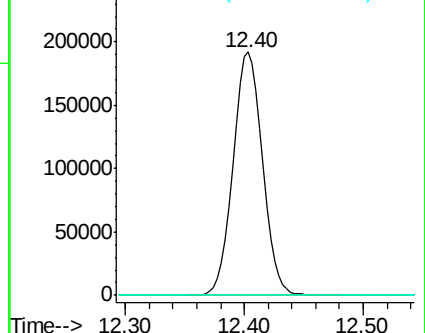
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#90

Hexachloroethane

Concen: Below Cal

RT: 13.90 min Scan# 3827

Delta R.T. 0.02 min

Lab File: VN049826.D

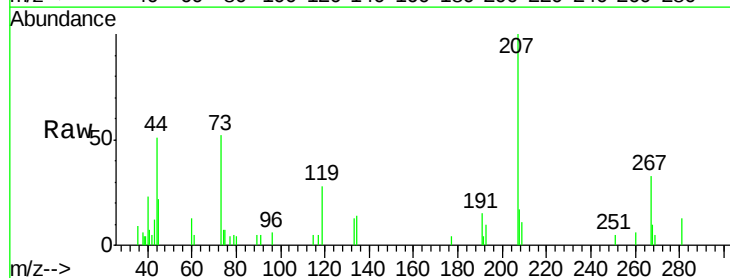
Acq: 14 Jul 2018 4:39

Tgt Ion: 117 Resp: 161

Ion Ratio Lower Upper

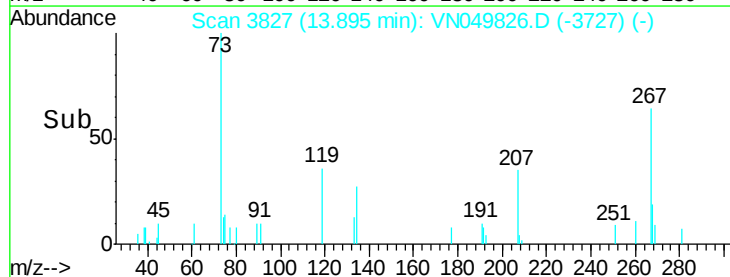
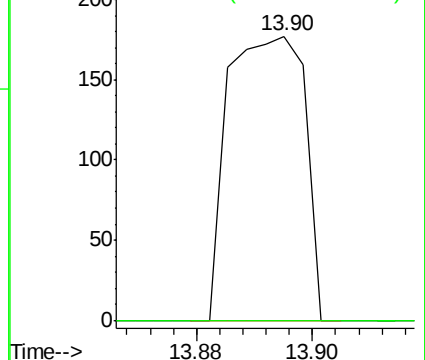
117 100

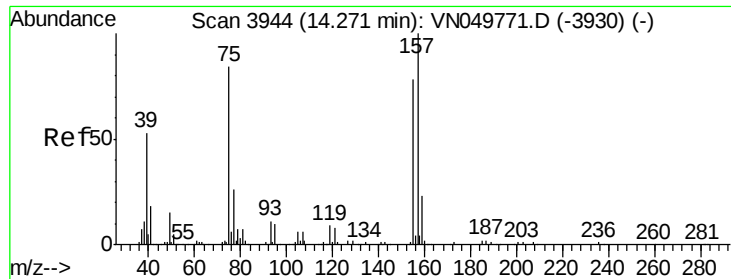
201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

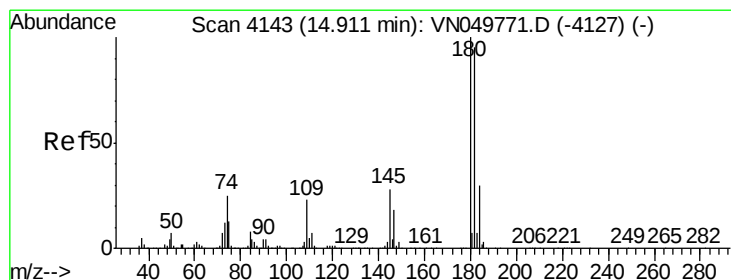
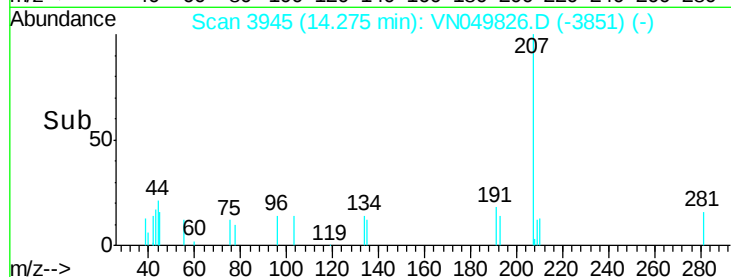
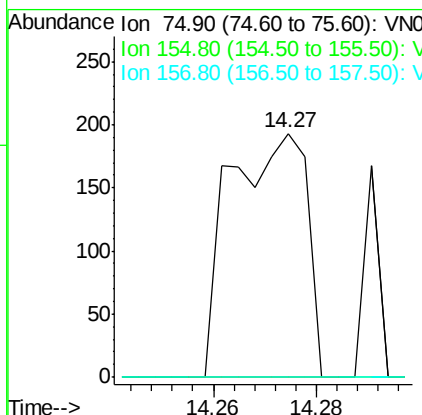
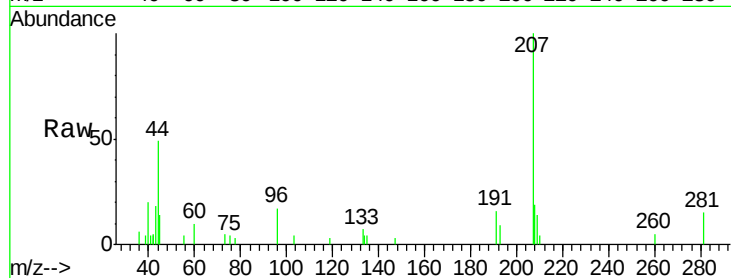




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049826.D
 Acq: 14 Jul 2018 4:39

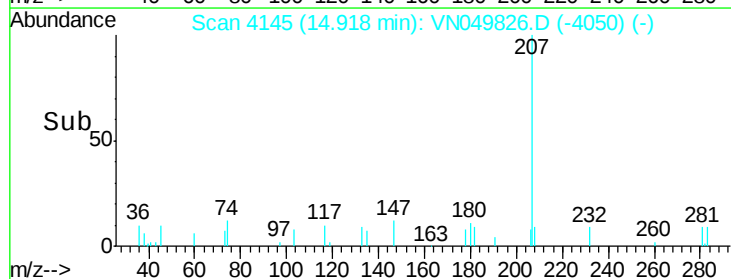
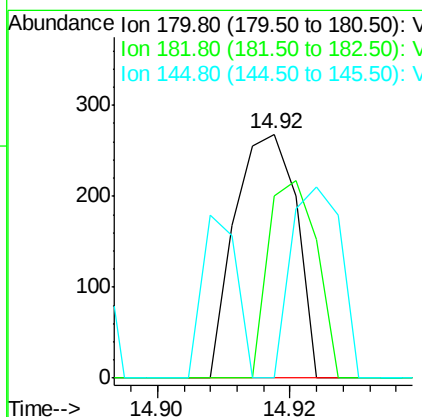
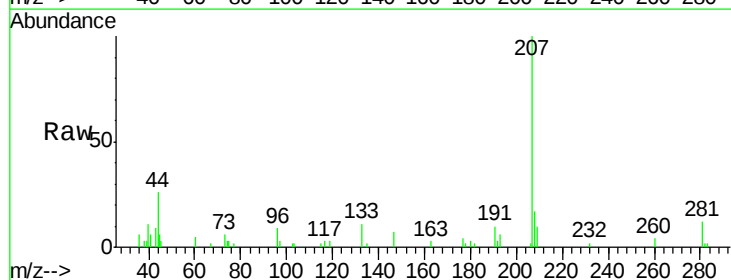
Instrument :
 MSVOA_N
 ClientSampled :
 SV30518L

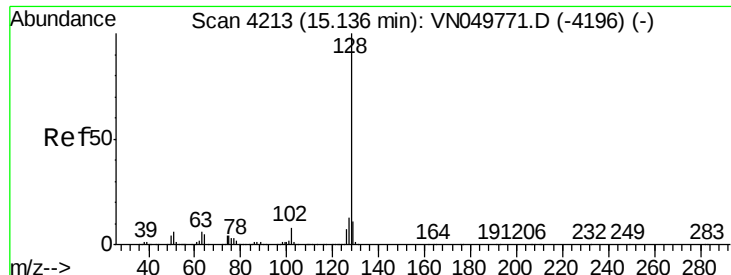
Tot Ion: 75 Resp: 198
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.7 137.1#
 157 0.0 56.9 170.7#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.90 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.01 min
 Lab File: VN049826.D
 Acq: 14 Jul 2018 4:39

Tgt Ion: 180 Resp: 172
 Ion Ratio Lower Upper
 180 100
 182 64.0 47.3 141.9
 145 64.5 14.4 43.0#

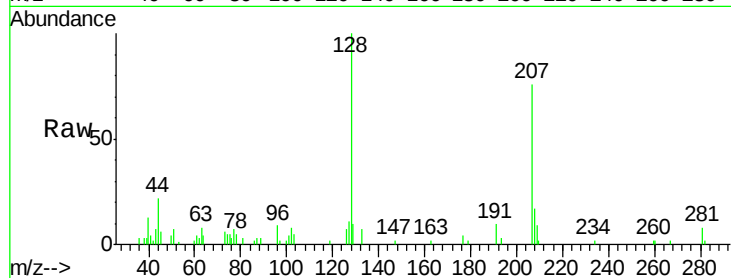




#95
 Naphthalene
 Concen: 4.78 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049826.D
 Acq: 14 Jul 2018 4:39

Instrument :
 MSVOA_N
 ClientSampleId :
 SV30518L

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.4	15.6
129	10.4	8.6	13.0



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

