

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053173.D
 Acq On : 24 Dec 2018 9:54
 Operator : MD\SY
 Sample : VN1224WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224WBL01

Quant Time: Dec 24 22:23:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1279209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1974760	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1764430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	699601	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	624395	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	7.59	113	553732	61.38	ug/l	0.00
Spiked Amount			Recovery	=	122.76%	
50) Toluene-d8	10.09	98	2416195	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.40	95	792533	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	

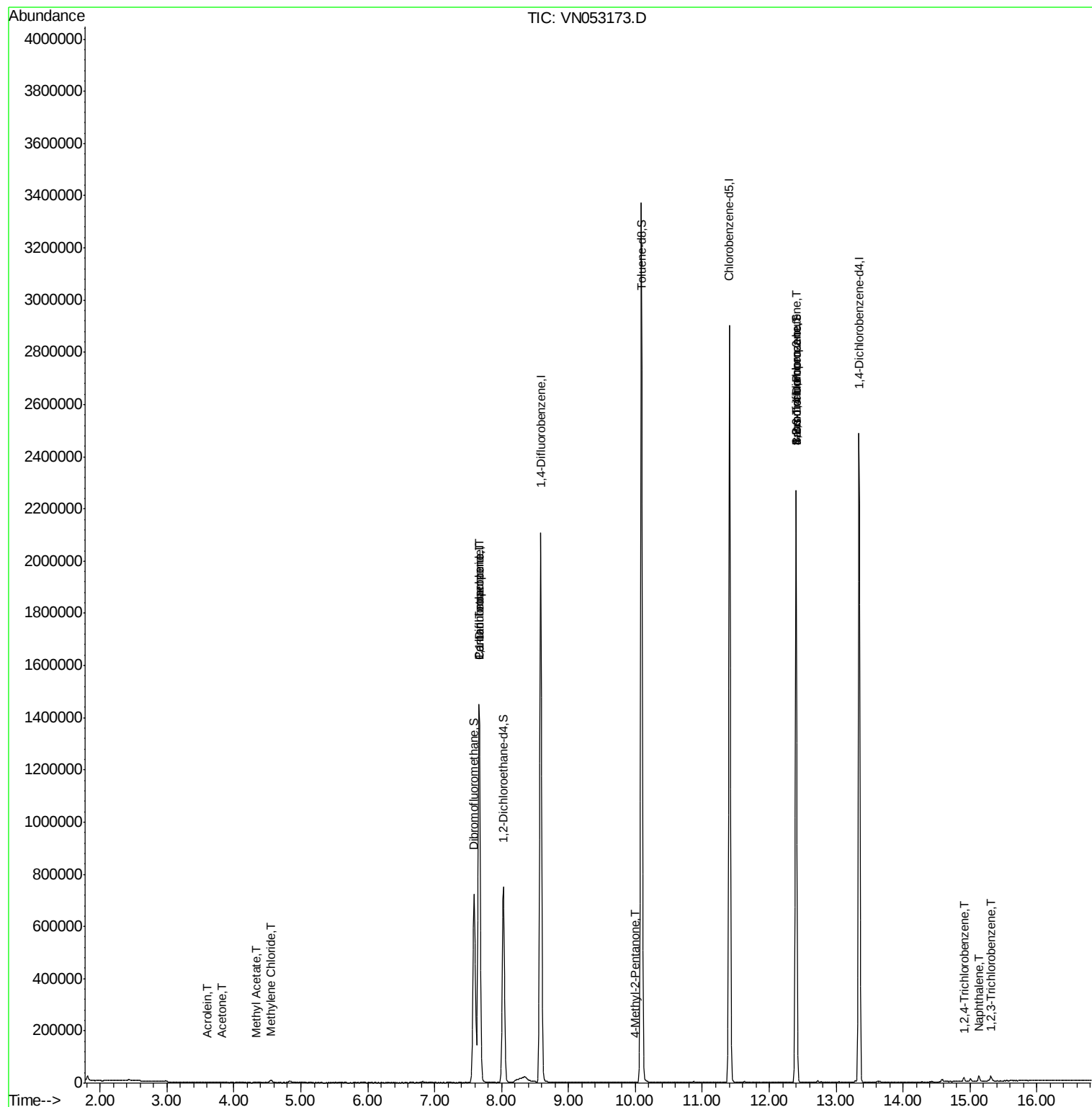
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	669	0.931	ug/l #	51
16) Acetone	3.81	43	1651	0.649	ug/l #	84
18) Methyl Acetate	4.33	43	3855	1.319	ug/l #	67
20) Methylene Chloride	4.55	84	7248	0.522	ug/l	95
31) Cyclohexane	7.66	56	22218	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	83475	4.404	ug/l #	48
38) Carbon Tetrachloride	7.67	117	110930	6.385	ug/l #	15
43) Isopropyl Acetate	8.25	43	16264	Below Cal	#	53
51) 4-Methyl-2-Pentanone	9.99	43	2378	0.232	ug/l #	35
71) Bromoform	12.40	173	4317	0.439	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	370672	31.474	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	370672	101.445	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	5683	1.043	ug/l	99
94) Hexachlorobutadiene	15.01	225	2229	Below Cal		97
95) Naphthalene	15.13	128	18667	1.810	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	7111	1.130	ug/l	95

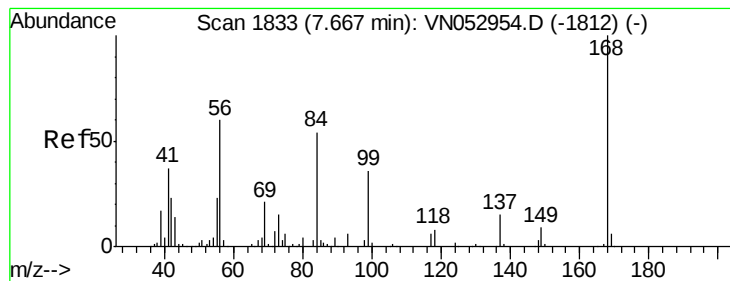
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

Instrument :

MSVOA_N

ClientSampleId :

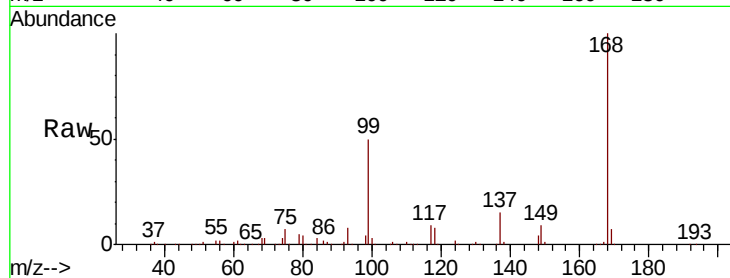
VN1224WBL01

Tot Ion:168 Resp: 1279209

Ion Ratio Lower Upper

168 100

99 50.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

600000

500000

400000

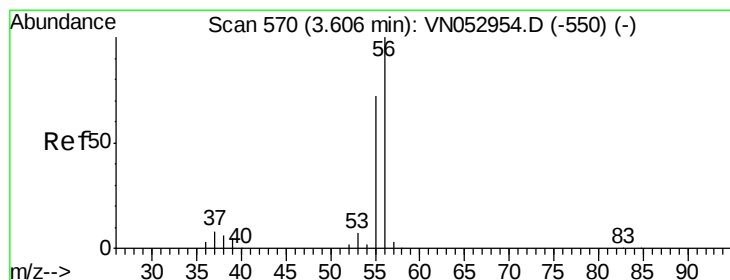
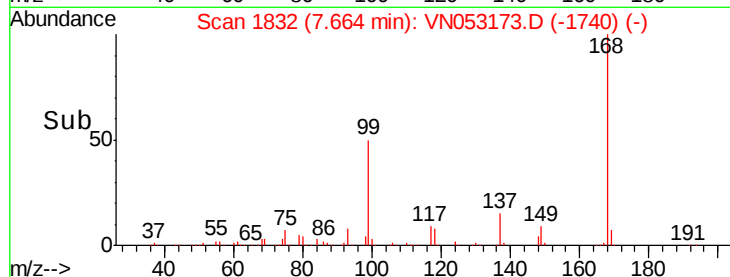
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.931 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053173.D

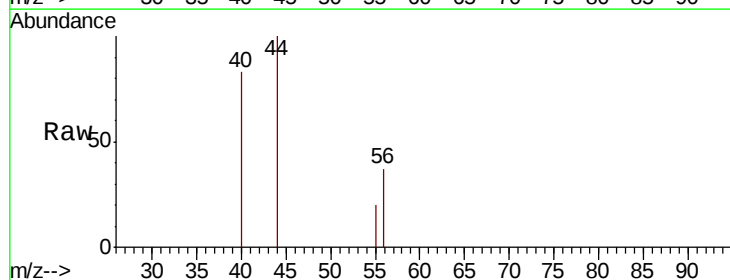
Acq: 24 Dec 2018 9:54

Tgt Ion: 56 Resp: 669

Ion Ratio Lower Upper

56 100

55 30.6 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

500

400

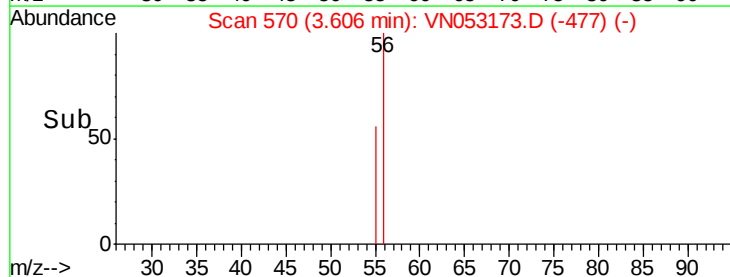
300

200

100

0

Time-->





#16

Acetone

Concen: 0.649 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

Instrument :

MSVOA_N

ClientSampleId :

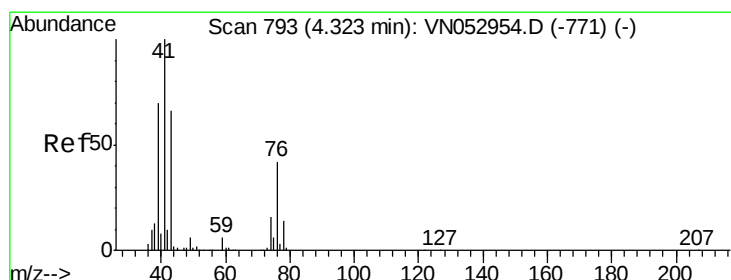
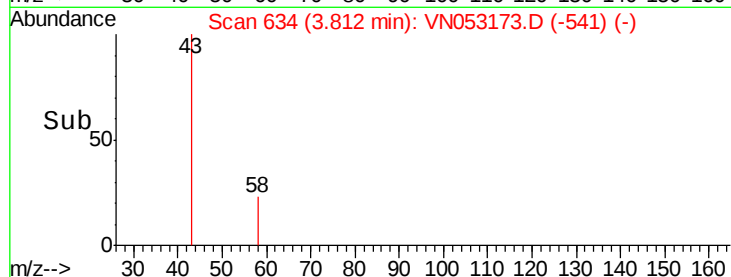
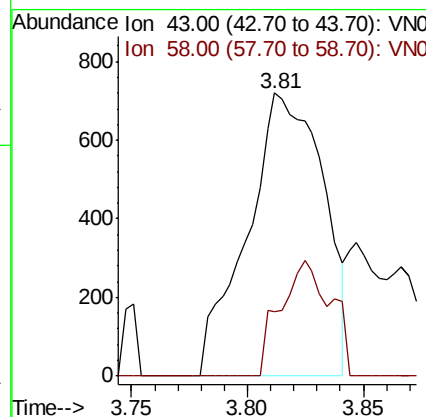
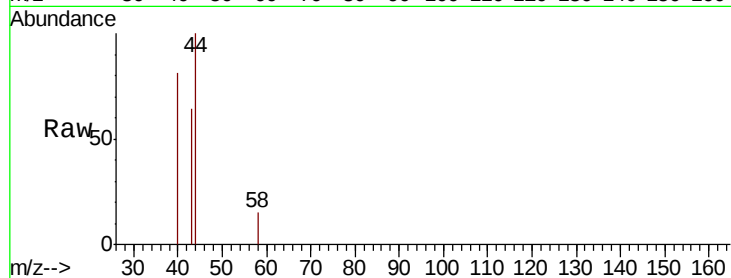
VN1224WBL01

Tot Ion: 43 Resp: 1651

Ion Ratio Lower Upper

43 100

58 22.9 25.4 38.0#



#18

Methyl Acetate

Concen: 1.319 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053173.D

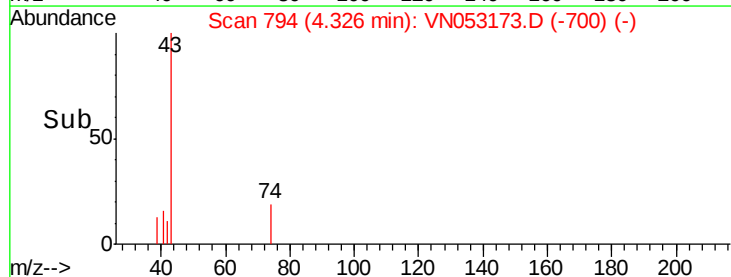
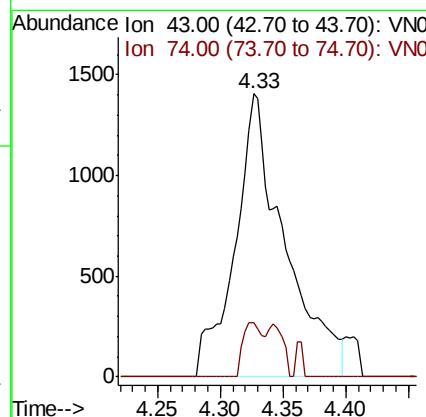
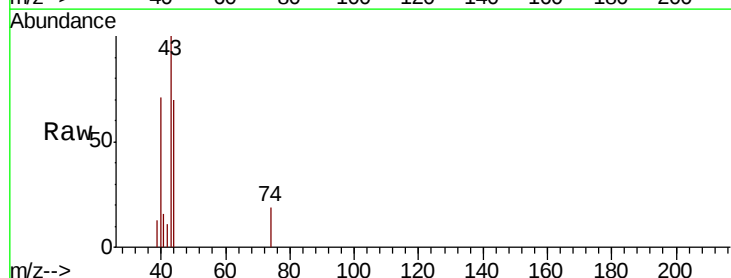
Acq: 24 Dec 2018 9:54

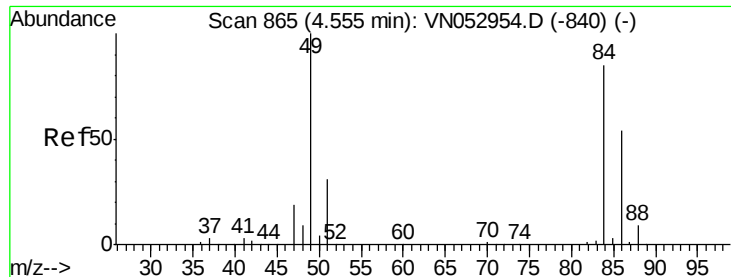
Tgt Ion: 43 Resp: 3855

Ion Ratio Lower Upper

43 100

74 7.8 19.2 28.8#

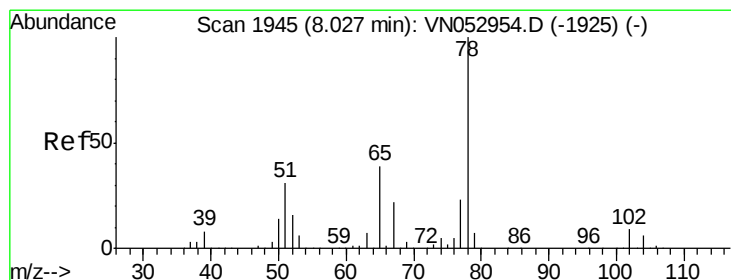
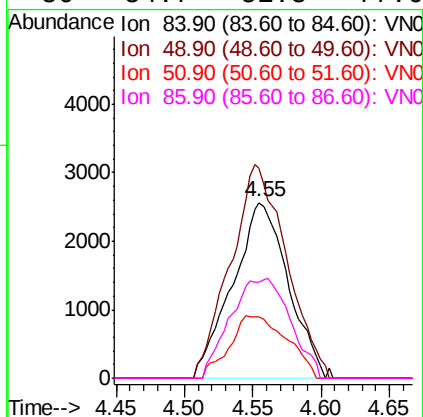
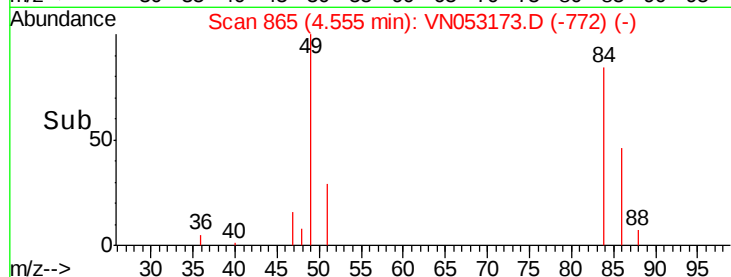
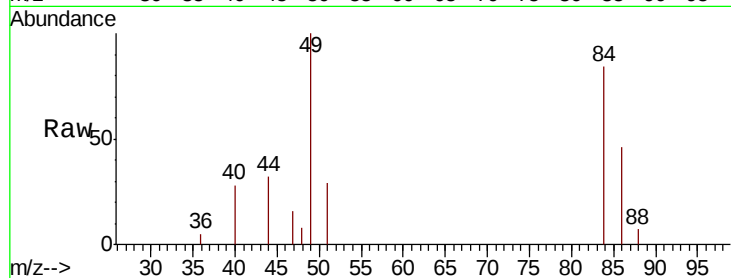




#20
Methylene Chloride
Concen: 0.522 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053173.D
Acq: 24 Dec 2018 9:54

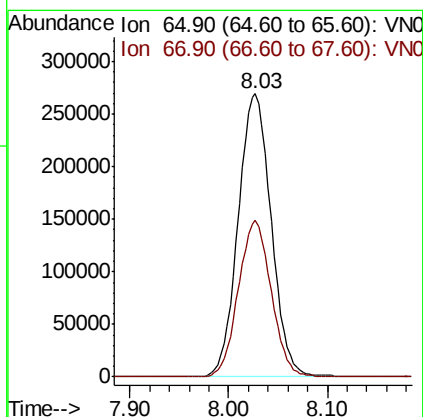
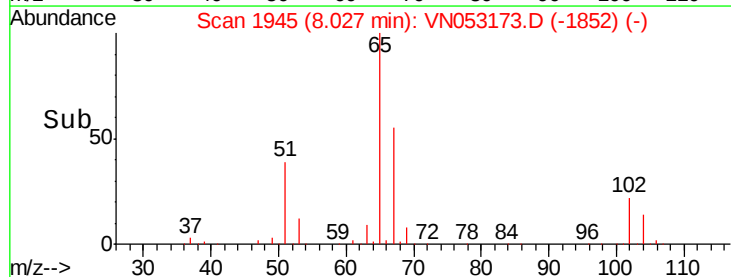
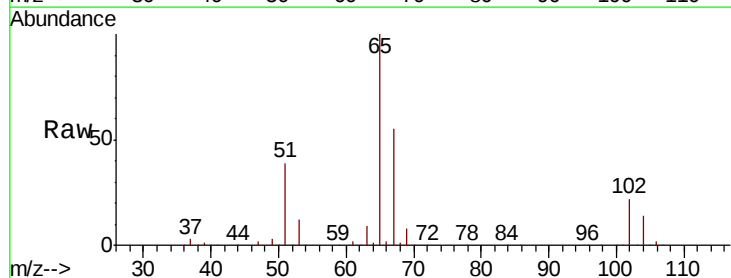
Instrument :
MSVOA_N
ClientSampleId :
VN1224WBL01

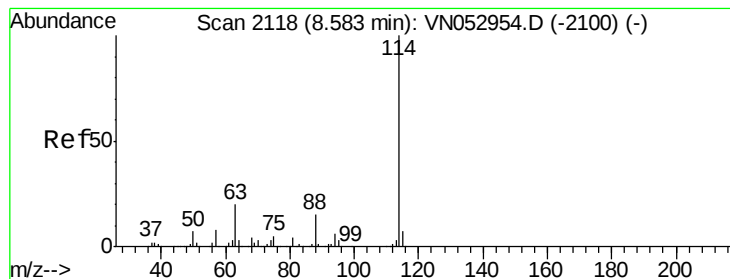
Tot Ion: 84 Resp: 7248
Ion Ratio Lower Upper
84 100
49 119.4 96.8 145.2
51 35.2 29.9 44.9
86 54.7 51.8 77.6



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN053173.D
Acq: 24 Dec 2018 9:54

Tgt Ion: 65 Resp: 624395
Ion Ratio Lower Upper
65 100
67 55.1 0.0 110.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

Instrument :

MSVOA_N

ClientSampleId :

VN1224WBL01

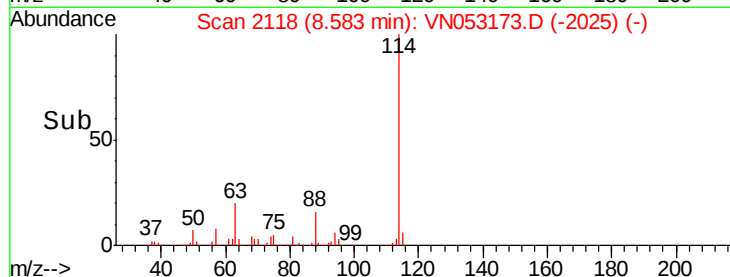
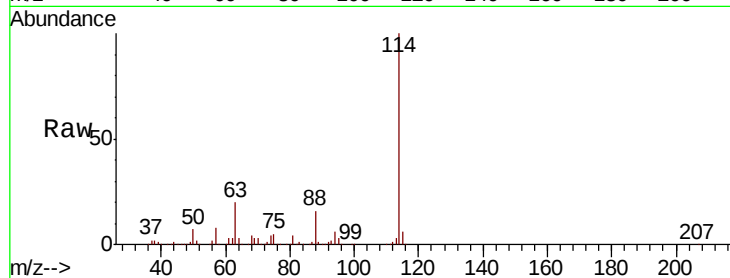
Tot Ion:114 Resp: 1974760

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

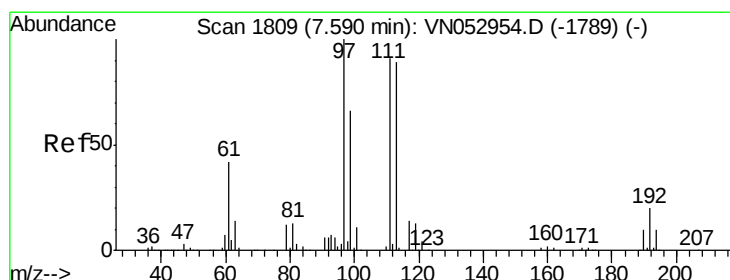
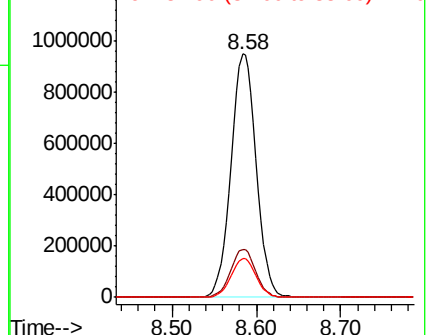
88 15.8 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

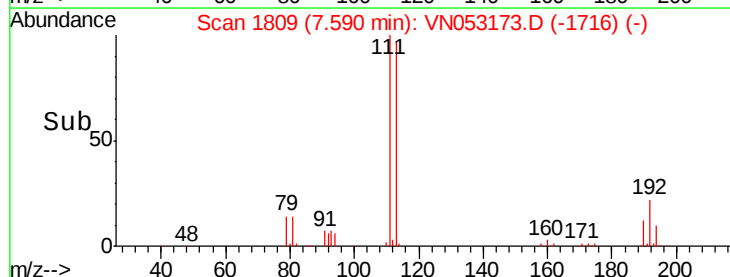
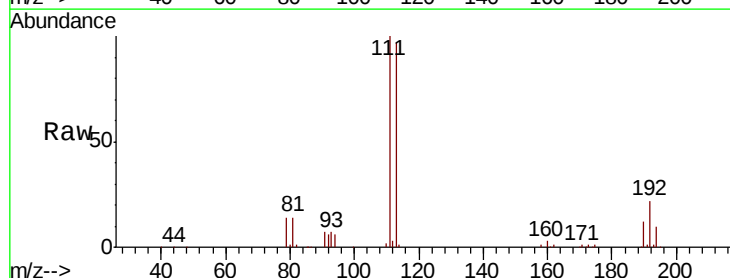
Tgt Ion:113 Resp: 553732

Ion Ratio Lower Upper

113 100

111 103.1 83.0 124.4

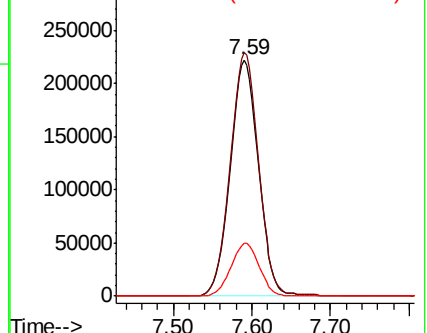
192 22.4 17.5 26.3

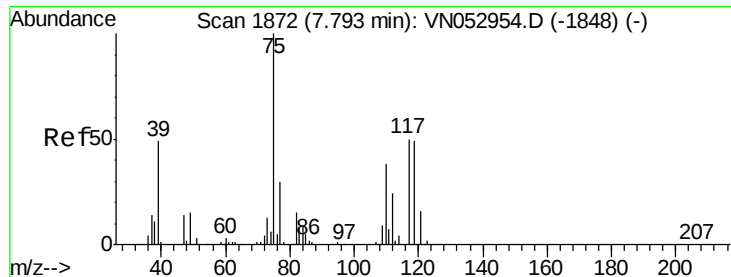


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

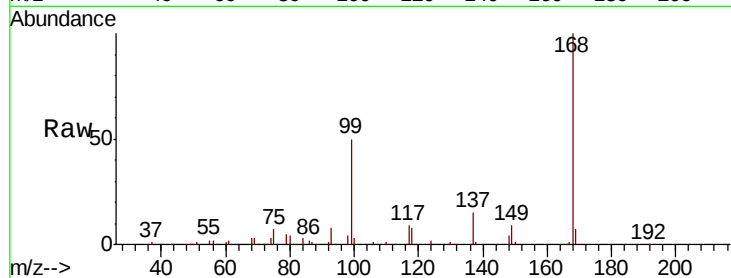




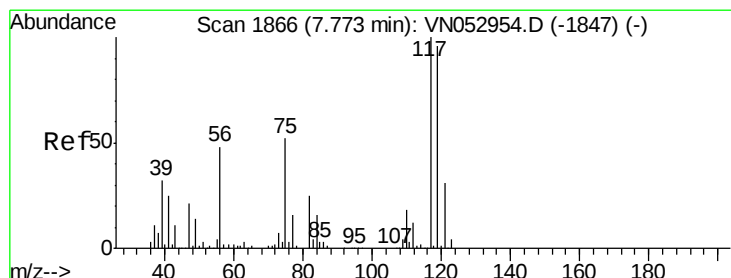
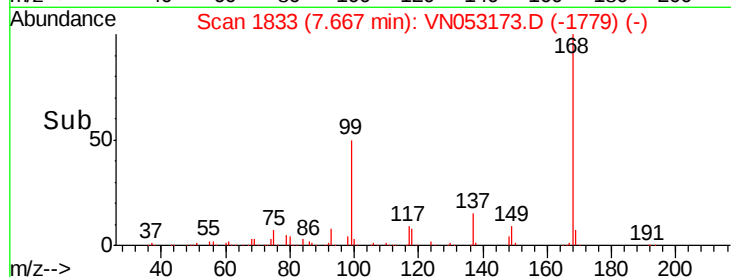
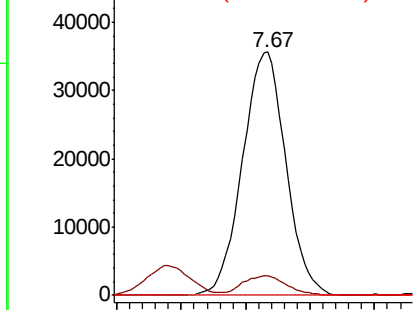
#36
 1,1-Dichloropropene
 Concen: 4.404 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053173.D
 Acq: 24 Dec 2018 9:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224WBL01

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.2	54.6#
77	0.0	24.9	37.3#

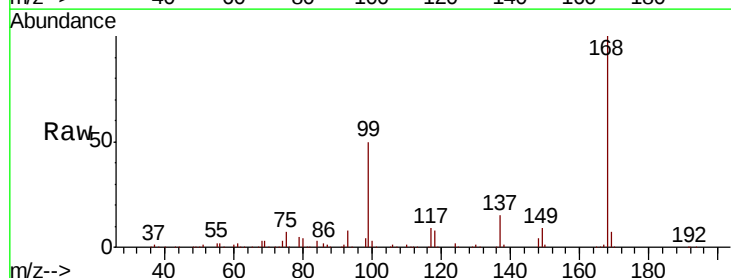


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

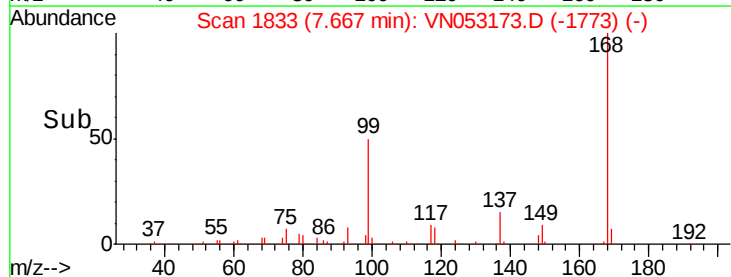
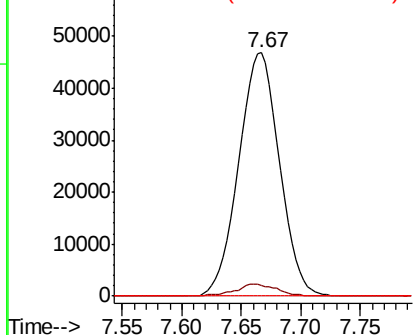


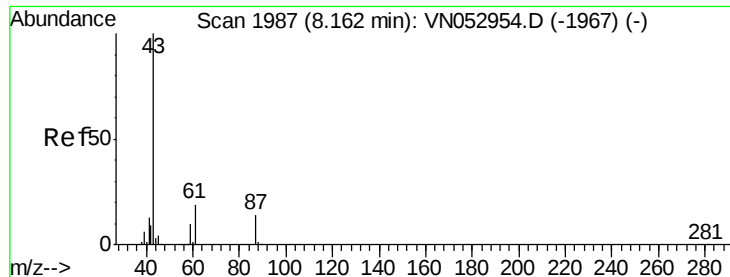
#38
 Carbon Tetrachloride
 Concen: 6.385 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053173.D
 Acq: 24 Dec 2018 9:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	77.1	115.7#
121	0.0	24.9	37.3#



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



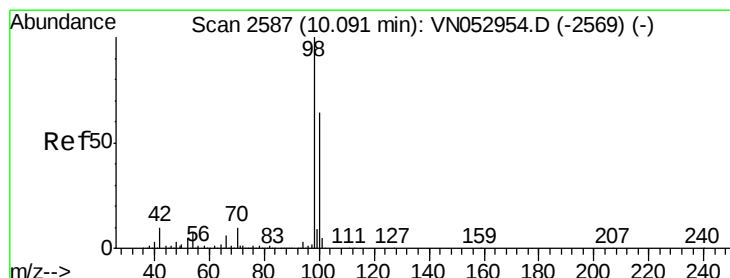
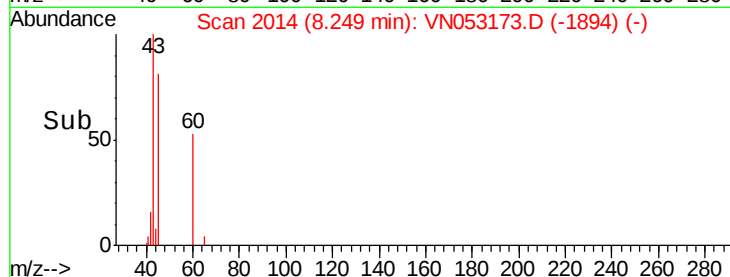
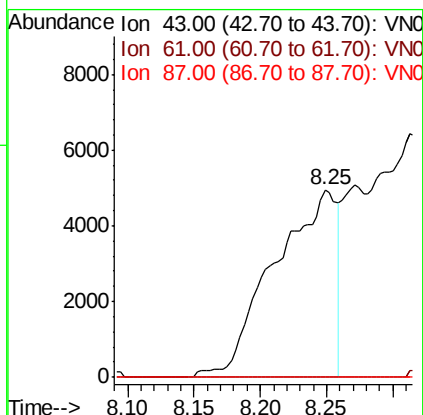
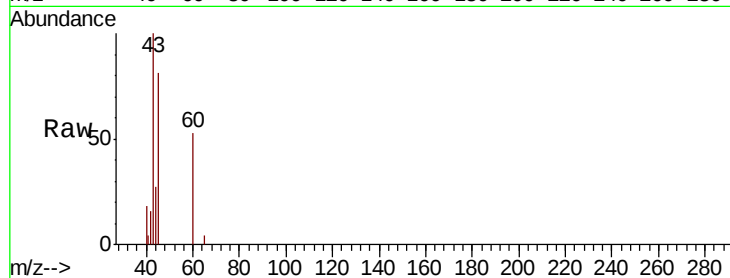


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 8.25 min Scan# 2014
 Delta R.T. 0.09 min
 Lab File: VN053173.D
 Acq: 24 Dec 2018 9:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224WBL01

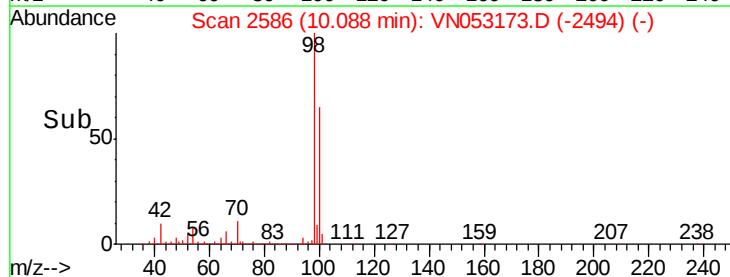
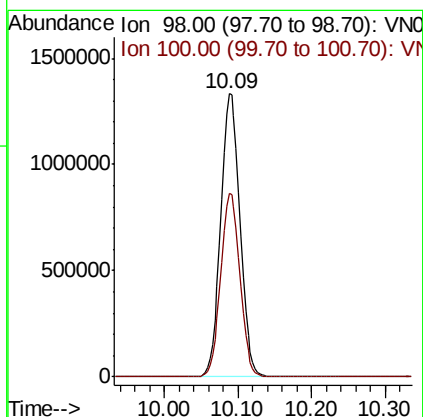
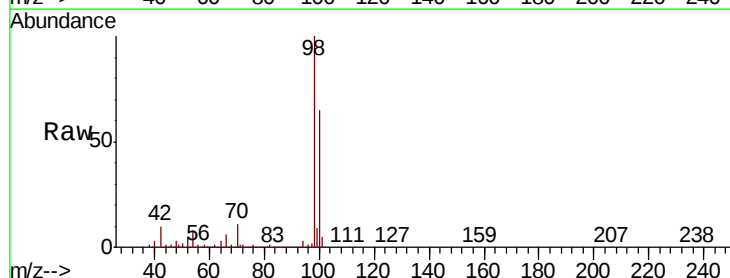
Tot Ion	43	Resp	16264
Ion Ratio	Lower	Upper	
43	100		
61	0.0	22.9	34.3#
87	0.0	10.6	15.8#

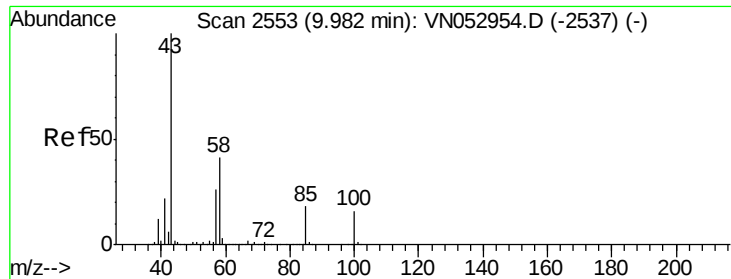


#50

Toluene-d8
 Concen: N.D. ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.00 min
 Lab File: VN053173.D
 Acq: 24 Dec 2018 9:54

Tgt Ion	98	Resp	2416195
Ion Ratio	Lower	Upper	
98	100		
100	64.7	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 0.232 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

Instrument :

MSVOA_N

ClientSampled :

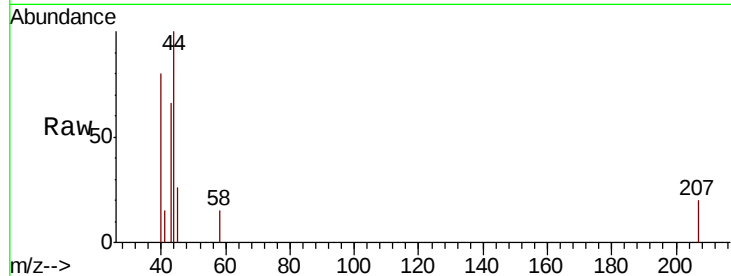
VN1224WBL01

Tot Ion: 43 Resp: 2378

Ion Ratio Lower Upper

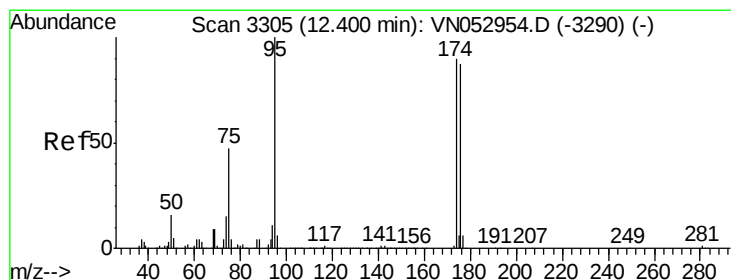
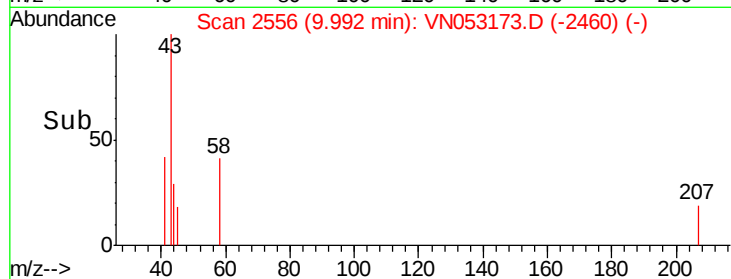
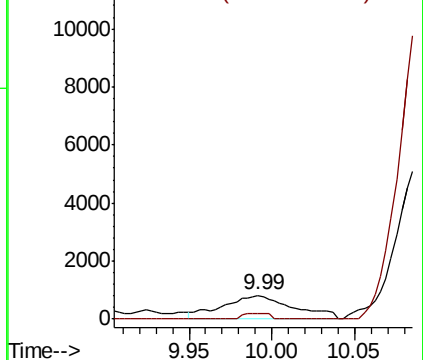
43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

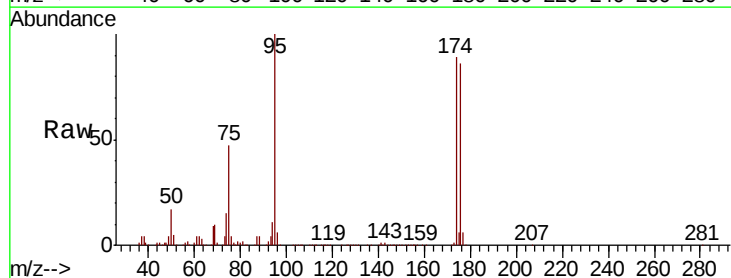
Tgt Ion: 95 Resp: 792533

Ion Ratio Lower Upper

95 100

174 89.2 0.0 178.8

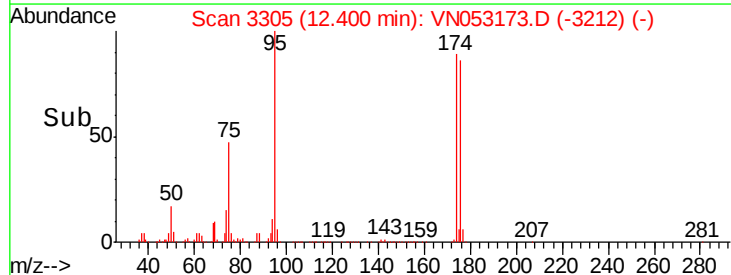
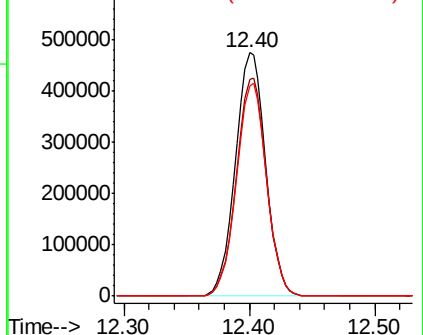
176 87.0 0.0 173.8

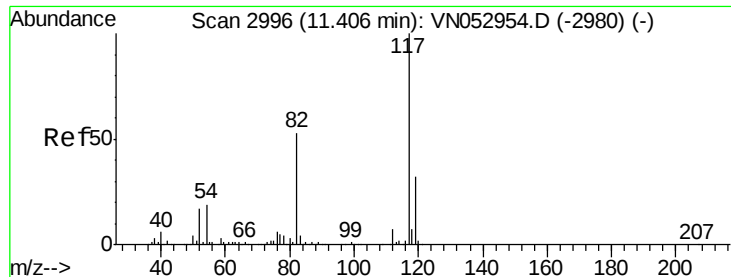


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

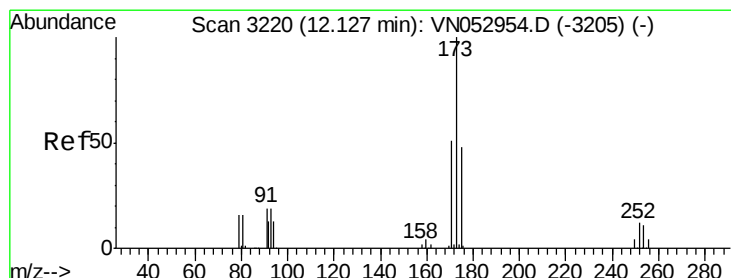
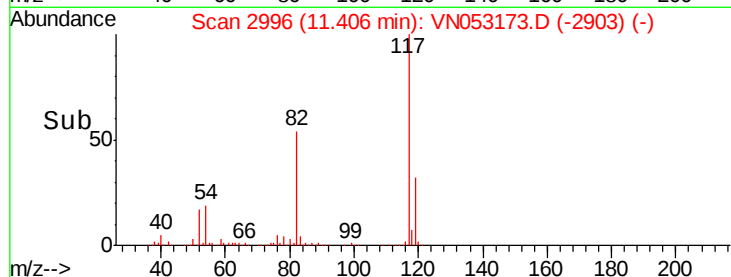
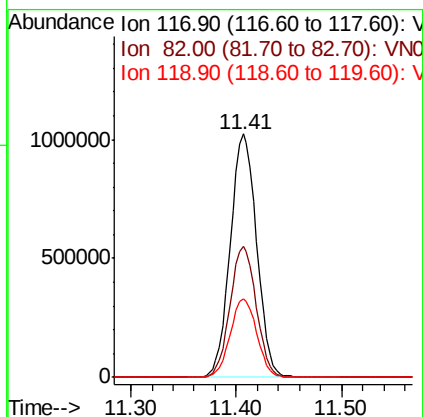
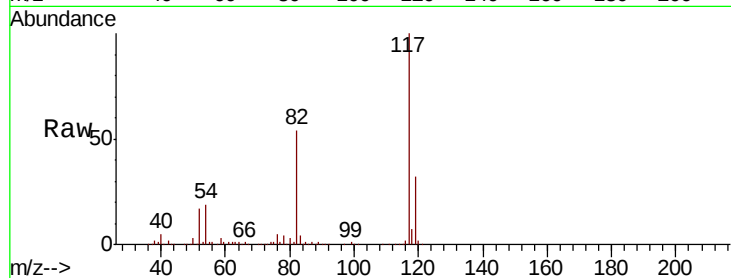




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053173.D
Acq: 24 Dec 2018 9:54

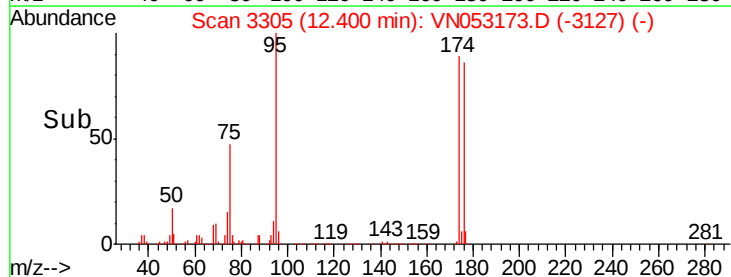
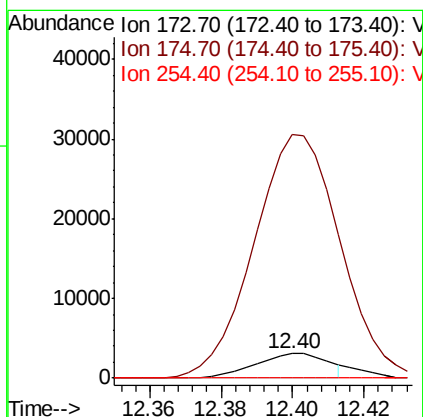
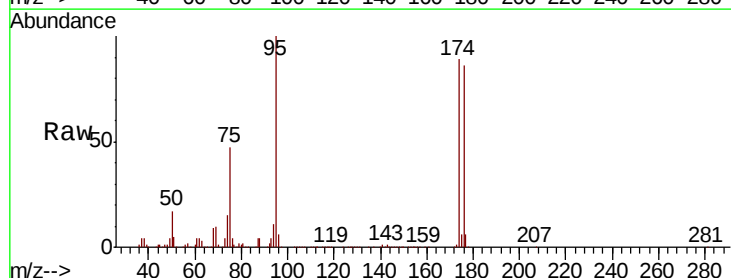
Instrument :
MSVOA_N
ClientSampled :
VN1224WBL01

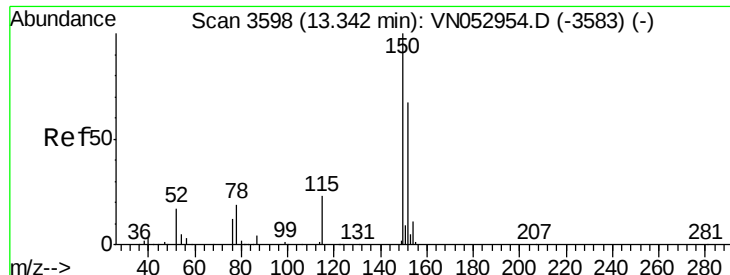
Tot Ion:117 Resp: 1764430
Ion Ratio Lower Upper
117 100
82 53.8 42.8 64.2
119 32.3 25.5 38.3



#71
Bromoform
Concen: 0.439 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053173.D
Acq: 24 Dec 2018 9:54

Tgt Ion:173 Resp: 4317
Ion Ratio Lower Upper
173 100
175 1044.6 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

Instrument :

MSVOA_N

ClientSampleId :

VN1224WBL01

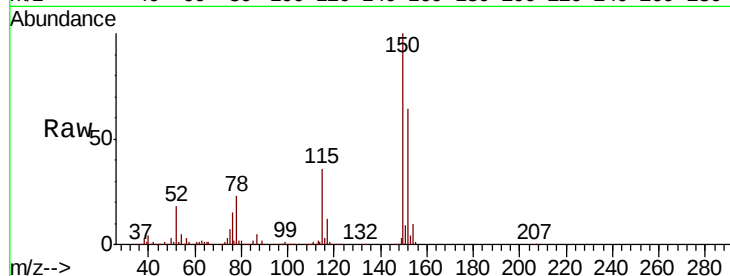
Tot Ion:152 Resp: 699601

Ion Ratio Lower Upper

152 100

115 56.5 28.3 85.0

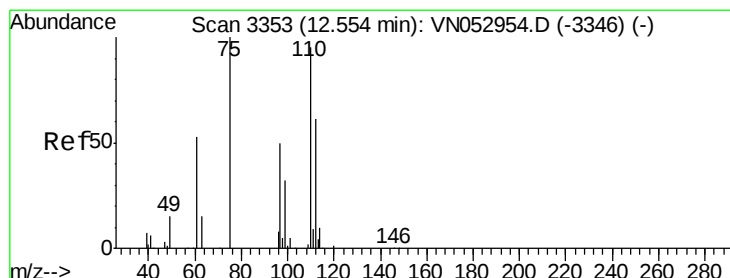
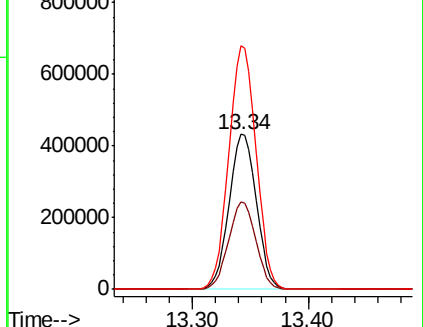
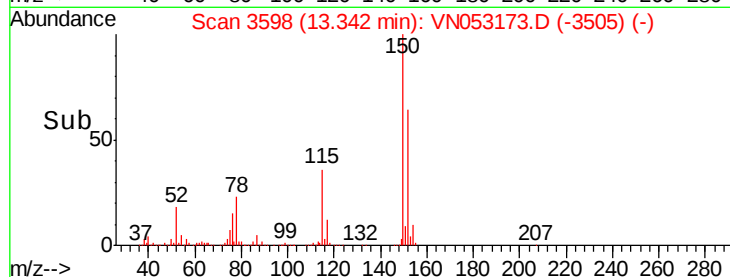
150 157.4 0.0 347.8



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: 31.474 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053173.D

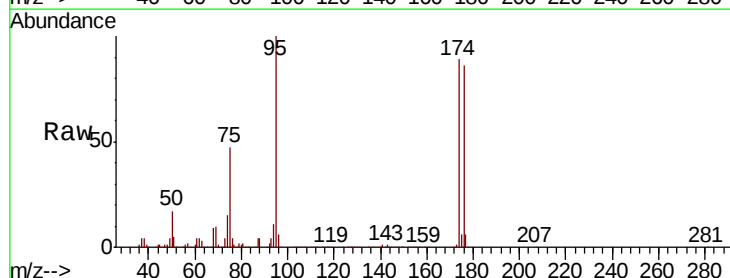
Acq: 24 Dec 2018 9:54

Tgt Ion: 75 Resp: 370672

Ion Ratio Lower Upper

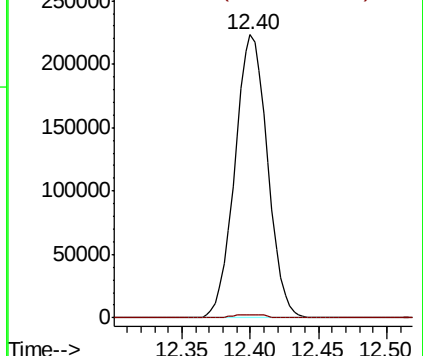
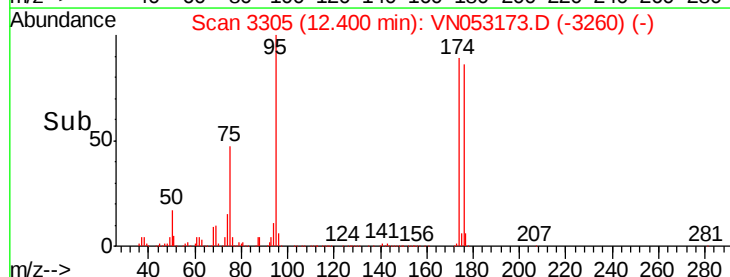
75 100

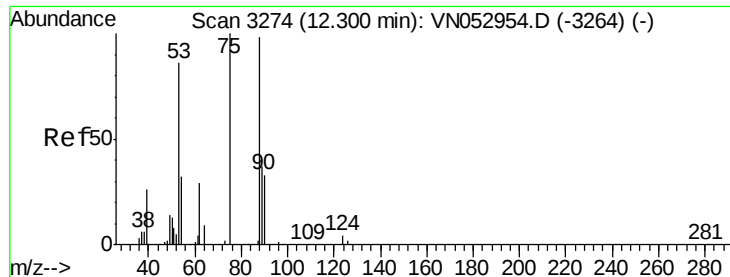
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 101.445 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

Instrument :

MSVOA_N

ClientSampleId :

VN1224WBL01

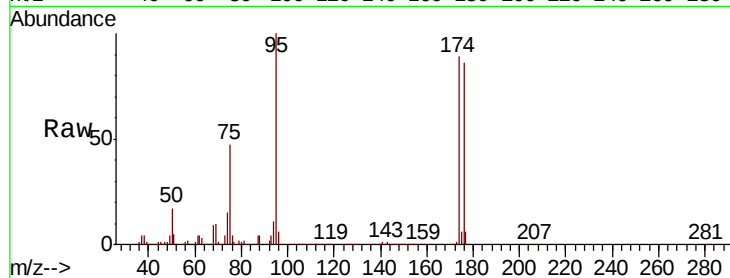
Tot Ion: 75 Resp: 370672

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

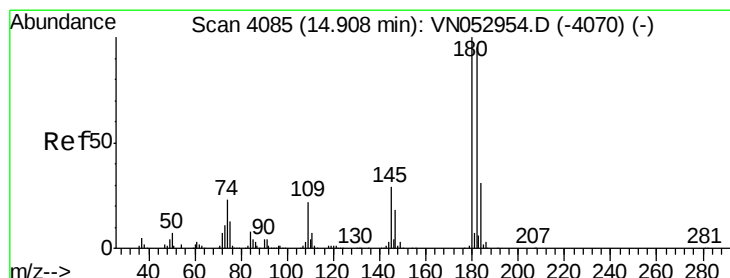
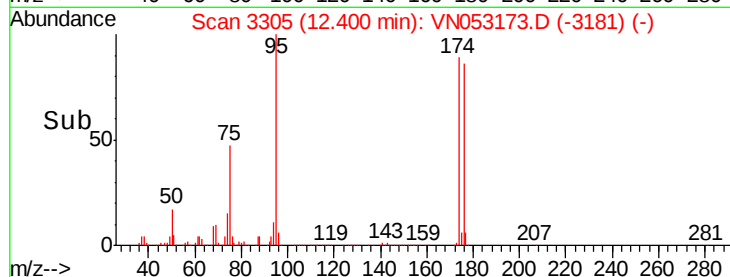
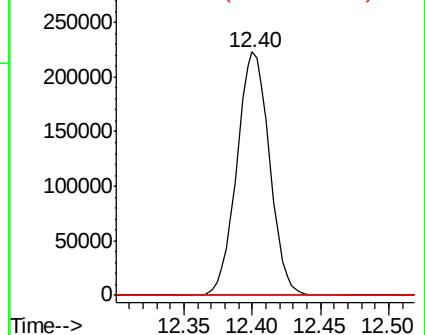
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN053173.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN053173.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN053173.D (-3305) (-)



#93

1,2,4-Trichlorobenzene

Concen: 1.043 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

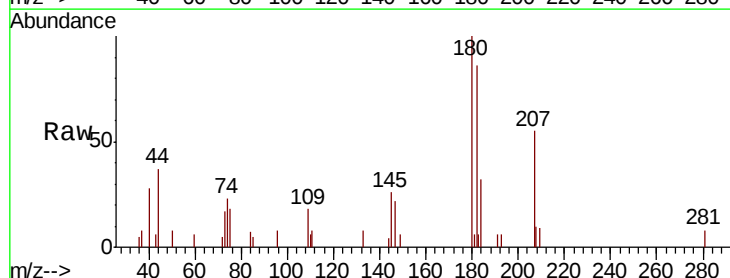
Tgt Ion: 180 Resp: 5683

Ion Ratio Lower Upper

180 100

182 95.7 47.8 143.3

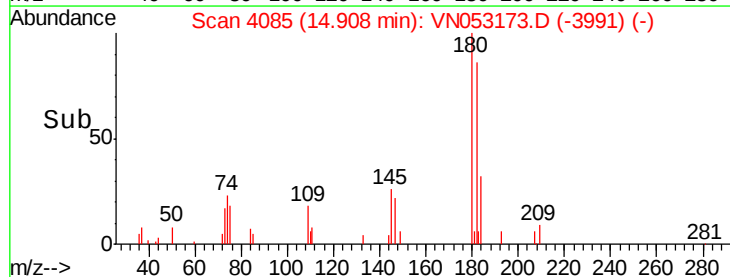
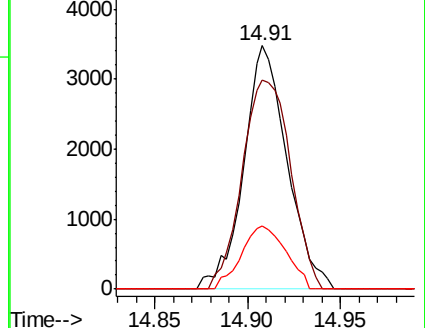
145 26.8 14.2 42.6

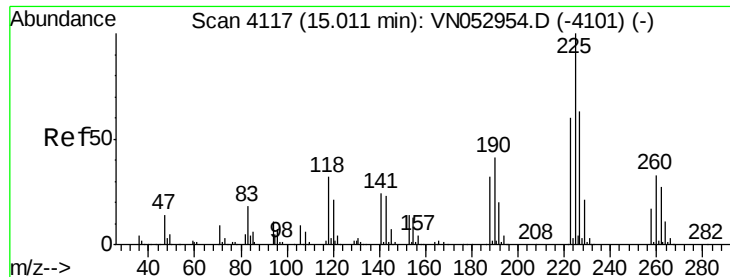


Abundance Ion 179.80 (179.50 to 180.50): VN053173.D (-4085) (-)

Ion 181.80 (181.50 to 182.50): VN053173.D (-4085) (-)

Ion 144.80 (144.50 to 145.50): VN053173.D (-4085) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

Instrument :

MSVOA_N

ClientSampleId :

VN1224WBL01

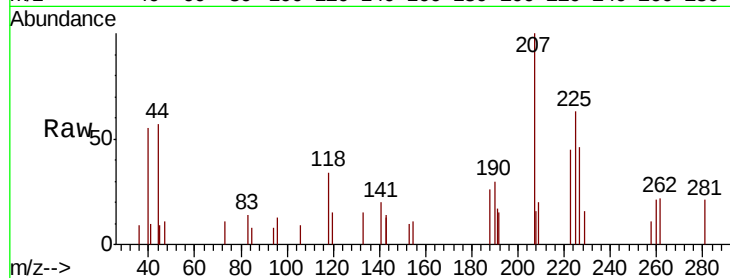
Tot Ion:225 Resp: 2229

Ion Ratio Lower Upper

225 100

223 64.7 31.5 94.5

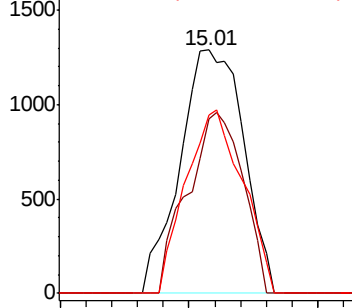
227 67.3 31.9 95.7



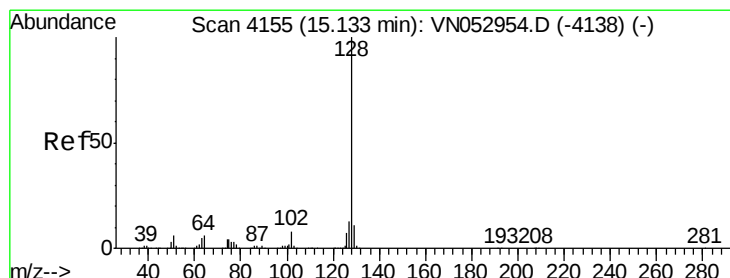
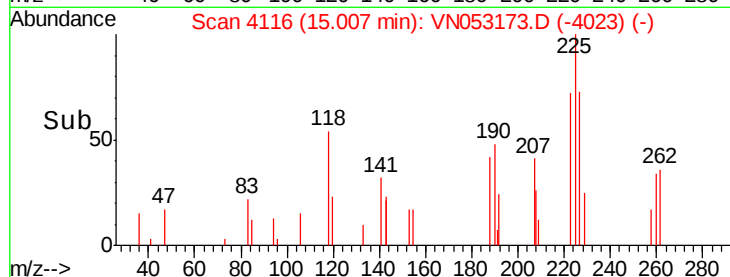
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time--> 14.95 15.00 15.05



#95

Naphthalene

Concen: 1.810 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053173.D

Acq: 24 Dec 2018 9:54

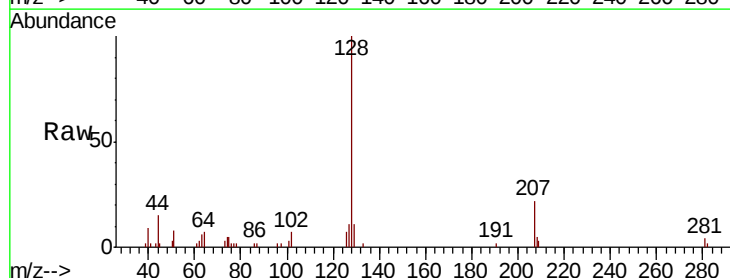
Tgt Ion:128 Resp: 18667

Ion Ratio Lower Upper

128 100

127 10.5 10.2 15.4

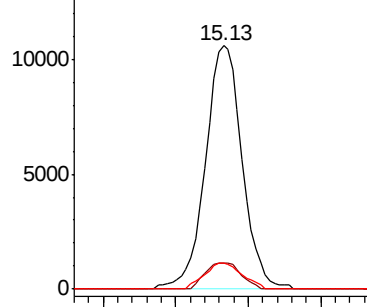
129 10.9 8.6 13.0



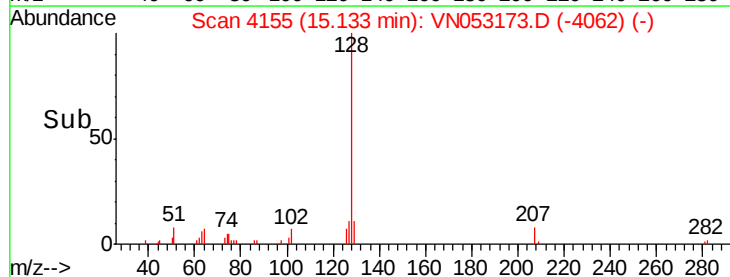
Abundance Ion 128.00 (127.70 to 128.70): V

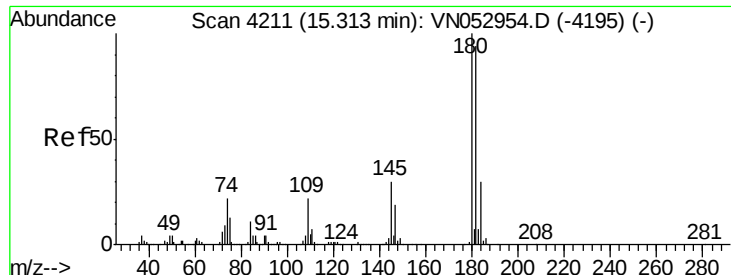
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 15.05 15.10 15.15 15.20

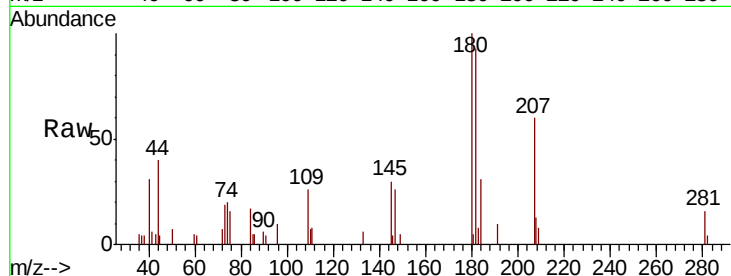




#96
 1,2,3-Trichlorobenzene
 Concen: 1.130 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN053173.D
 Acq: 24 Dec 2018 9:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.5	47.9	143.7
145	31.7	15.0	45.0



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

