

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN042319\
 Data File : VN055210.D
 Acq On : 23 Apr 2019 16:54
 Operator : JC/SP
 Sample : K2201-05
 Misc : 6.22g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-01-041819-C

Quant Time: Apr 24 02:52:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

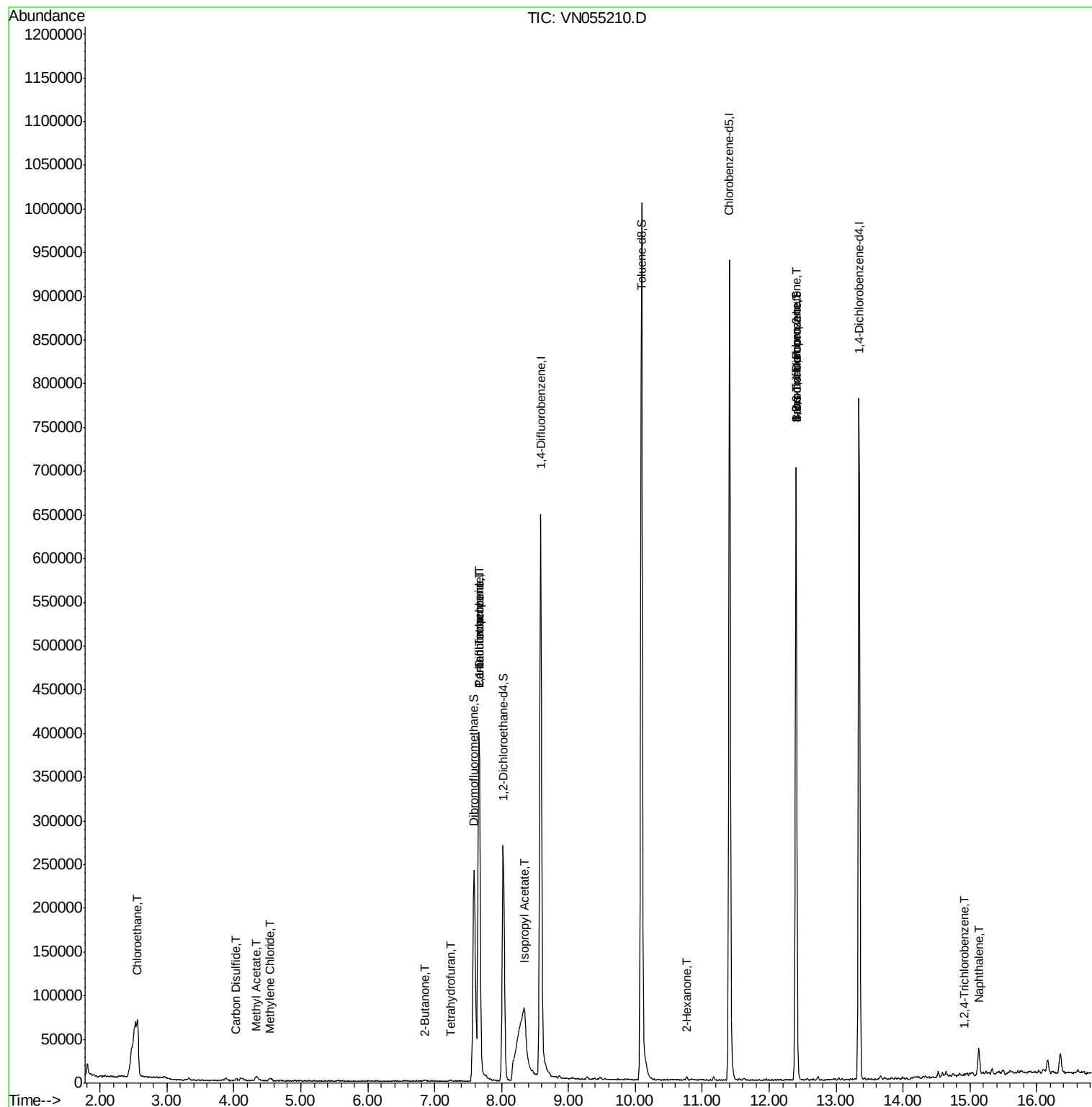
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	339486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	582682	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	543571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	208121	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	232022	50.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.98%	
35) Dibromofluoromethane	7.59	113	183785	46.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.86%	
50) Toluene-d8	10.09	98	723796	49.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.40	95	237284	51.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.18%	
Target Compounds						
					Qvalue	
6) Chloroethane	2.56	64	492	0.218	ug/l #	1
17) Carbon Disulfide	4.03	76	3760	0.385	ug/l #	82
18) Methyl Acetate	4.34	43	8732	1.583	ug/l	94
20) Methylene Chloride	4.54	84	1940	0.444	ug/l #	80
25) 2-Butanone	6.86	43	970	0.495	ug/l #	53
29) Tetrahydrofuran	7.22	42	375	0.311	ug/l #	39
31) Cyclohexane	7.66	56	7274	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	25233	4.666	ug/l #	51
38) Carbon Tetrachloride	7.66	117	32109	6.340	ug/l #	18
43) Isopropyl Acetate	8.33	43	268334	37.966	ug/l #	57
59) 2-Hexanone	10.77	43	1039	0.404	ug/l #	43
71) Bromoform	12.40	173	1136	0.463	ug/l #	1
73) Isopropylbenzene	12.26	105	314	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	31	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	123861	29.336	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	123861	111.206	ug/l #	5
83) tert-Butylbenzene	13.03	119	60	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	14.91	180	159	2.787	ug/l #	10
95) Naphthalene	15.13	128	25186	6.900	ug/l	98

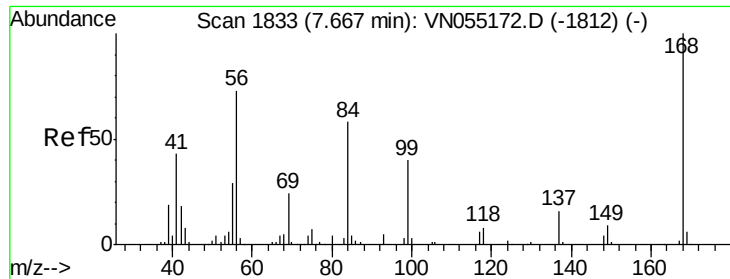
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

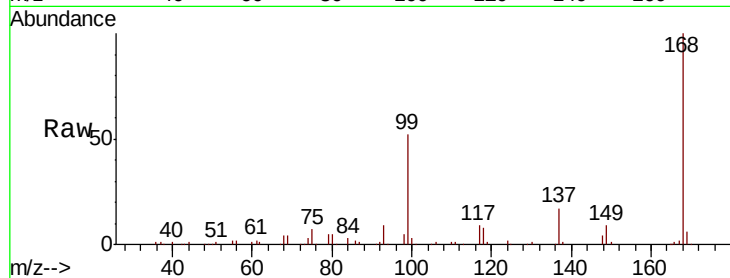
PL-01-041819-C

Tgt Ion:168 Resp: 339486

Ion Ratio Lower Upper

168 100

99 51.9 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VN055210.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055210.D (-1740) (-)

7.66

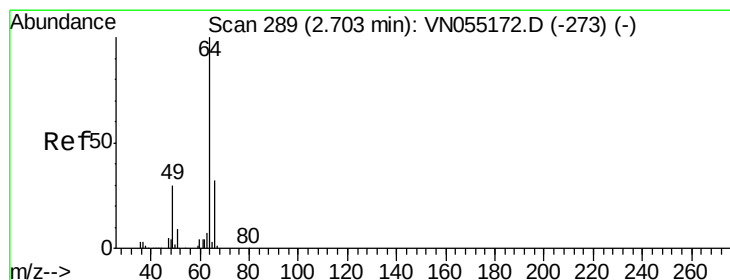
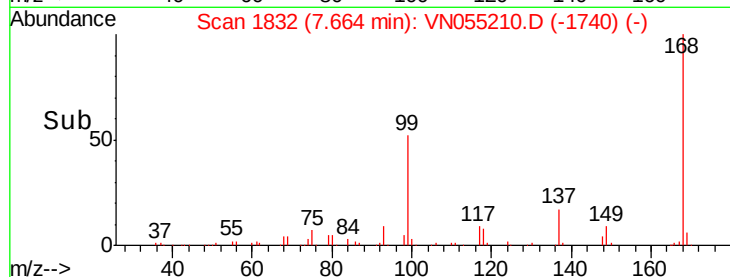
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.218 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.14 min

Lab File: VN055210.D

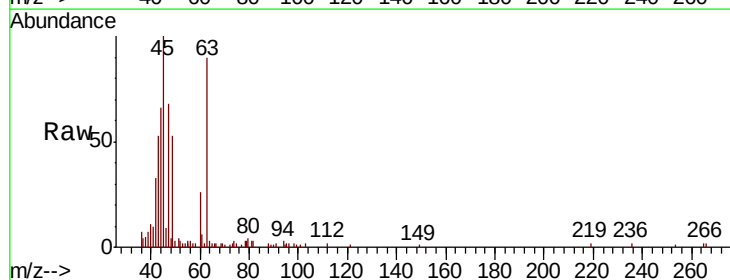
Acq: 23 Apr 2019 16:54

Tgt Ion: 64 Resp: 492

Ion Ratio Lower Upper

64 100

66 99.4 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VN055210.D (-196) (-)

Ion 65.90 (65.60 to 66.60): VN055210.D (-196) (-)

2.56

600

500

400

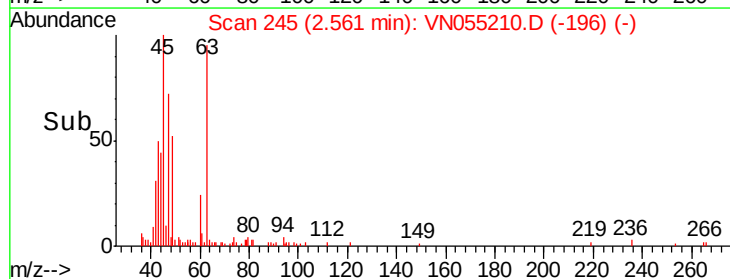
300

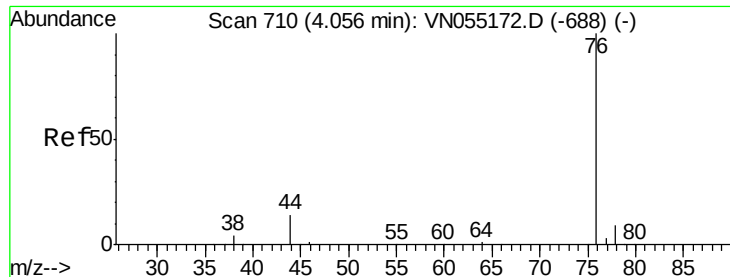
200

100

0

Time-->





#17

Carbon Disulfide

Concen: 0.385 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.02 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

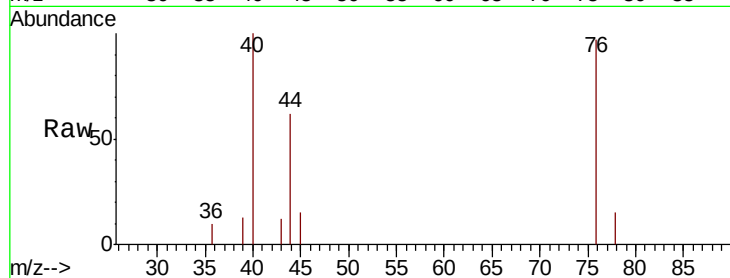
PL-01-041819-C

Tgt Ion: 76 Resp: 3760

Ion Ratio Lower Upper

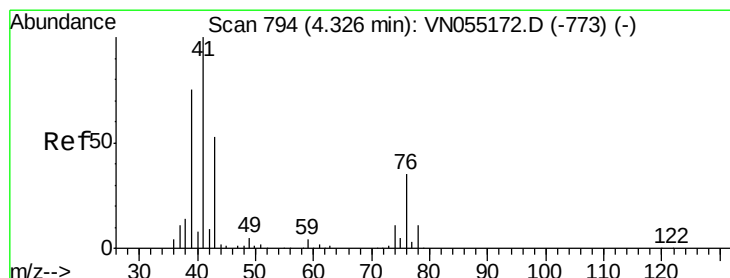
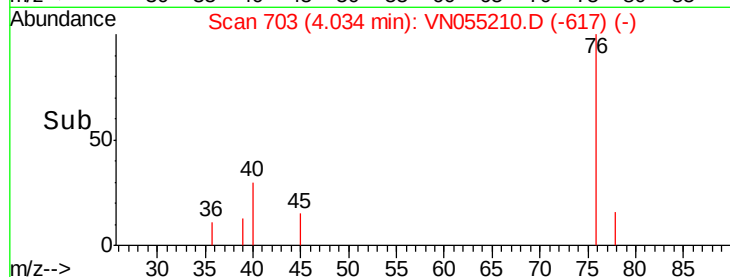
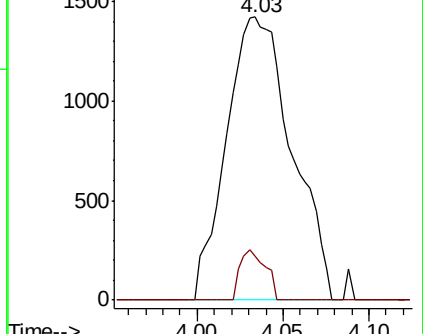
76 100

78 15.6 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.583 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055210.D

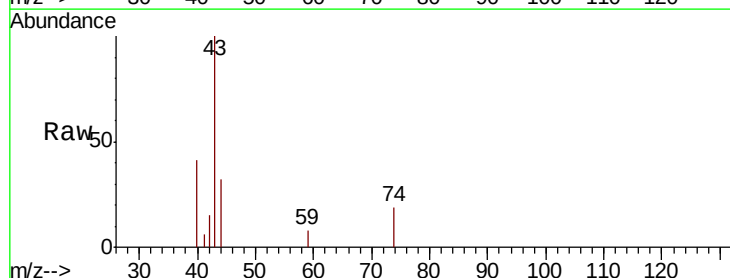
Acq: 23 Apr 2019 16:54

Tgt Ion: 43 Resp: 8732

Ion Ratio Lower Upper

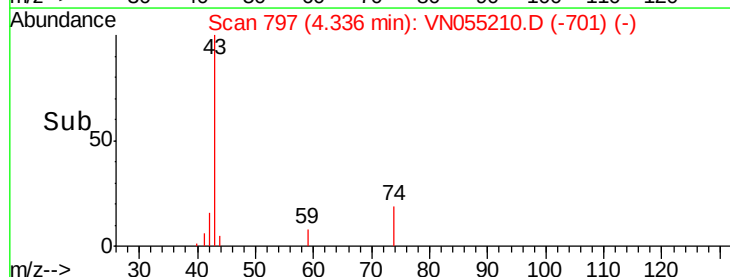
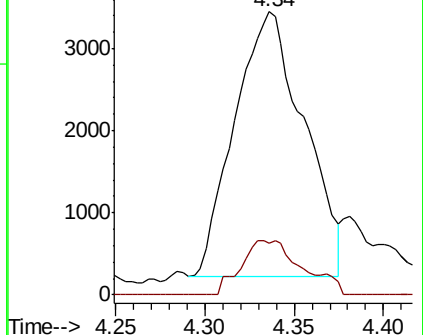
43 100

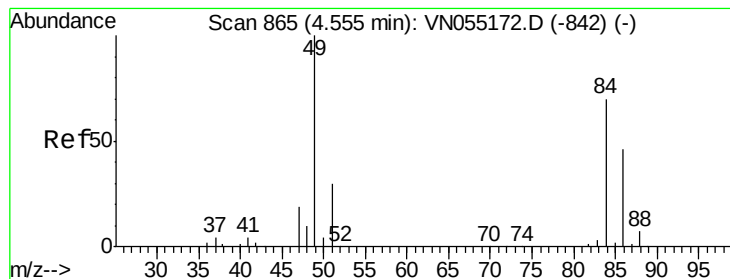
74 18.2 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 0.444 ug/l

RT: 4.54 min Scan# 862

Delta R.T. -0.01 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

PL-01-041819-C

Tgt Ion: 84 Resp: 1940

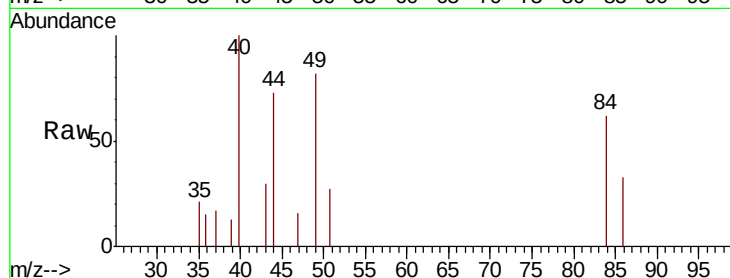
Ion Ratio Lower Upper

84 100

49 107.5 113.8 170.6#

51 44.4 34.0 51.0

86 54.1 52.3 78.5

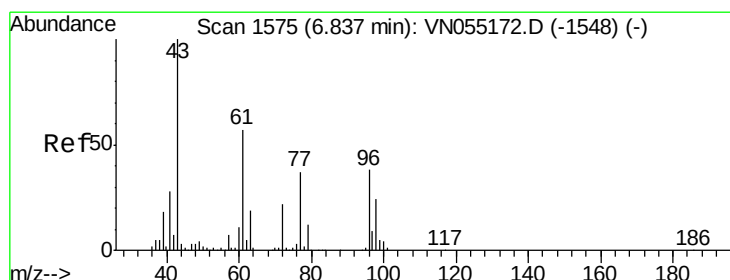
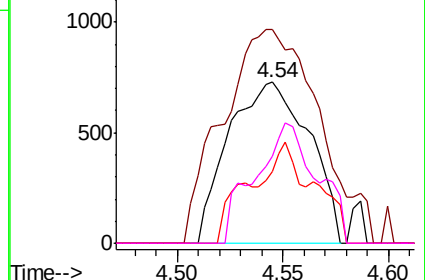
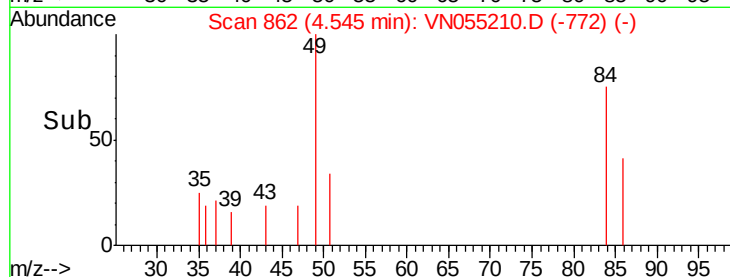


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.495 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.02 min

Lab File: VN055210.D

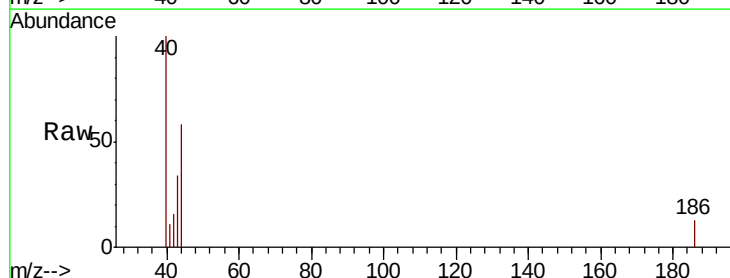
Acq: 23 Apr 2019 16:54

Tgt Ion: 43 Resp: 970

Ion Ratio Lower Upper

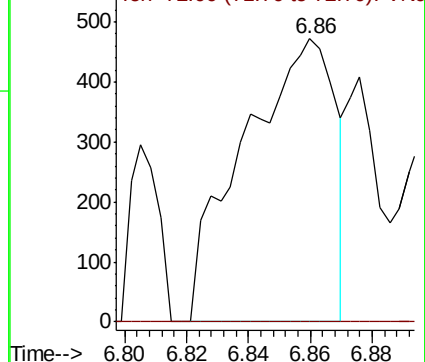
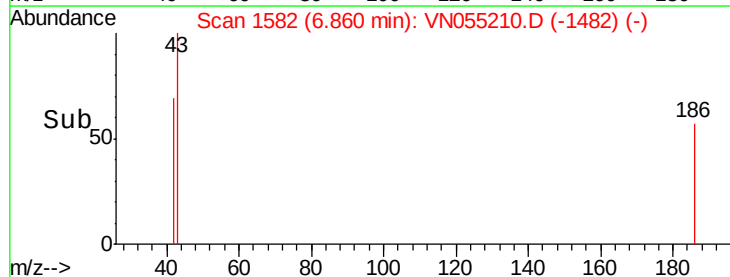
43 100

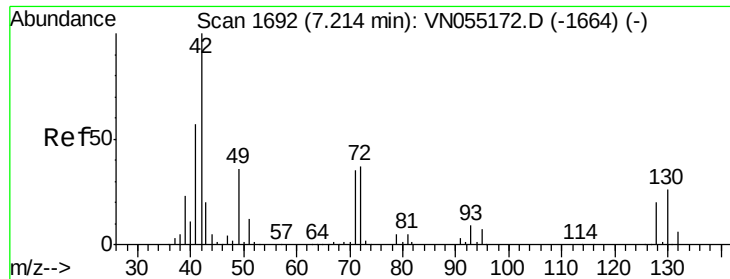
72 0.0 17.8 26.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

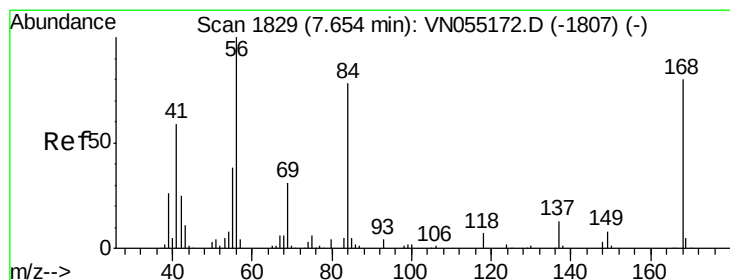
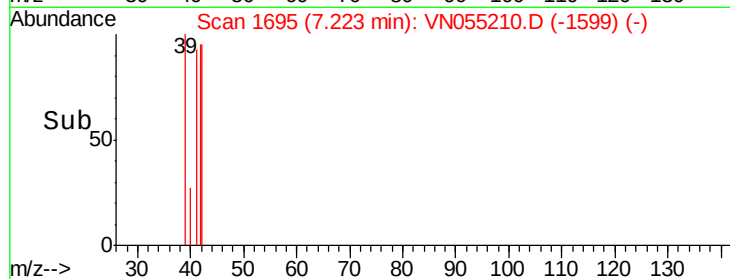
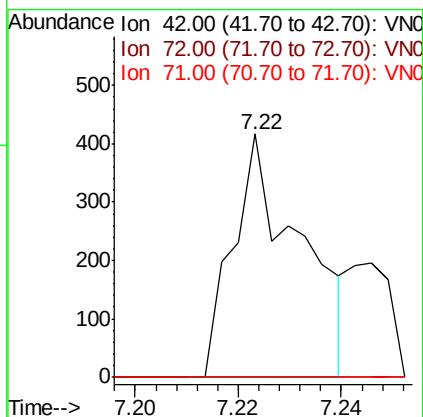
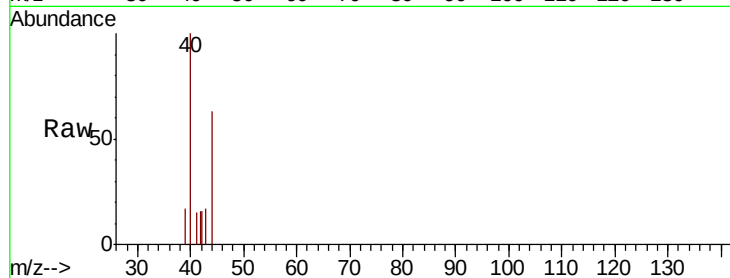




#29
Tetrahydrofuran
Concen: 0.311 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN055210.D
Acq: 23 Apr 2019 16:54

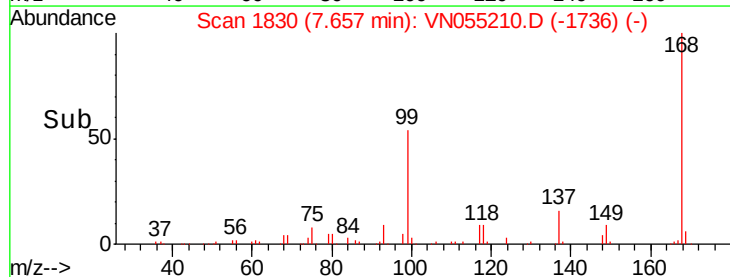
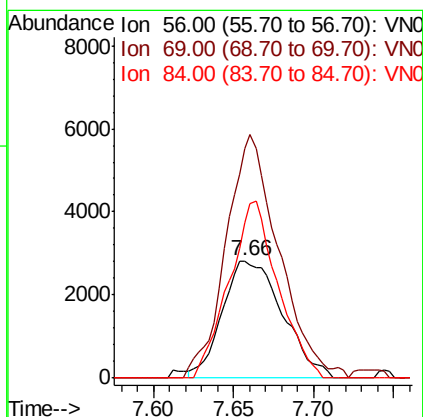
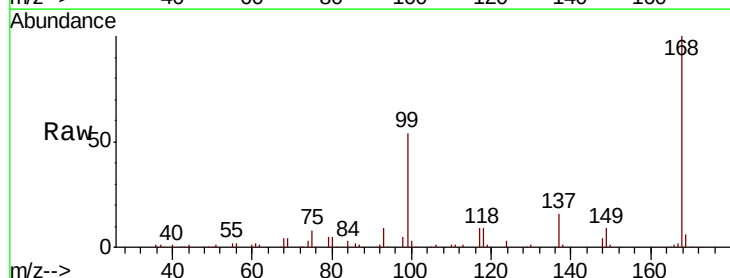
Instrument :
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ClientSampleId :
PL-01-041819-C

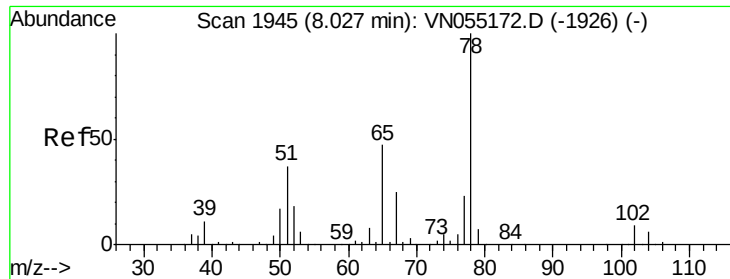
Tgt Ion: 42 Resp: 375
Ion Ratio Lower Upper
42 100
72 0.0 29.4 44.2#
71 0.0 27.8 41.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN055210.D
Acq: 23 Apr 2019 16:54

Tgt Ion: 56 Resp: 7274
Ion Ratio Lower Upper
56 100
69 186.9 24.6 37.0#
84 131.9 61.4 92.2#

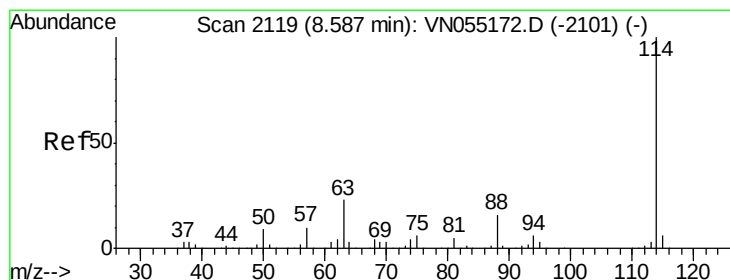
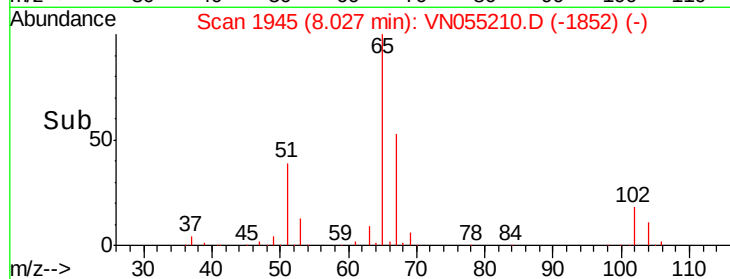
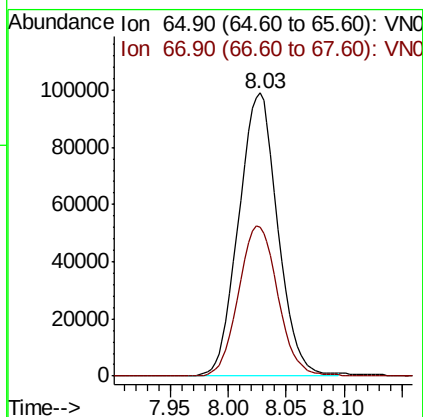
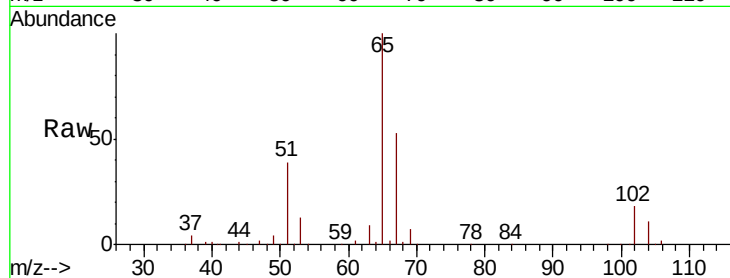




#33
 1,2-Dichloroethane-d4
 Concen: 50.494 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055210.D
 Acq: 23 Apr 2019 16:54

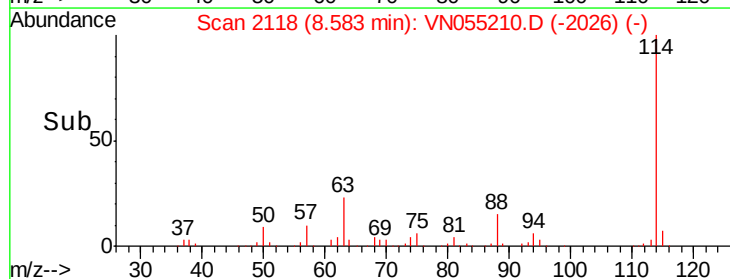
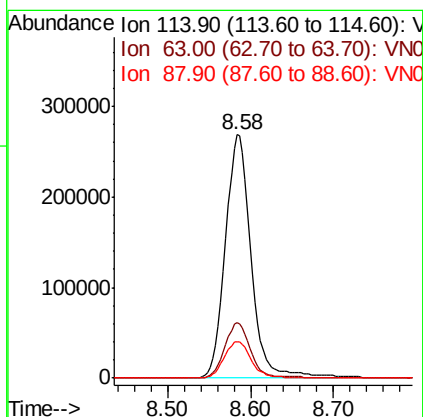
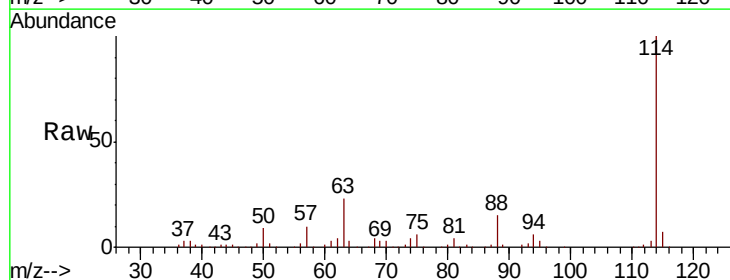
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-01-041819-C

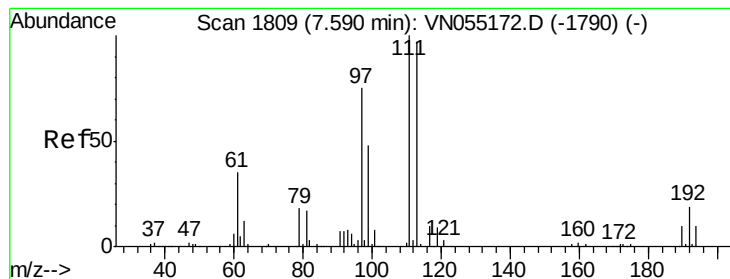
Tgt Ion: 65 Resp: 232022
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055210.D
 Acq: 23 Apr 2019 16:54

Tgt Ion: 114 Resp: 582682
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 45.2
 88 15.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 46.429 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

PL-01-041819-C

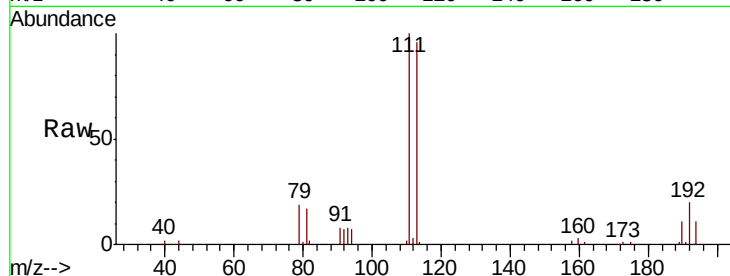
Tgt Ion: 113 Resp: 183785

Ion Ratio Lower Upper

113 100

111 102.5 81.0 121.4

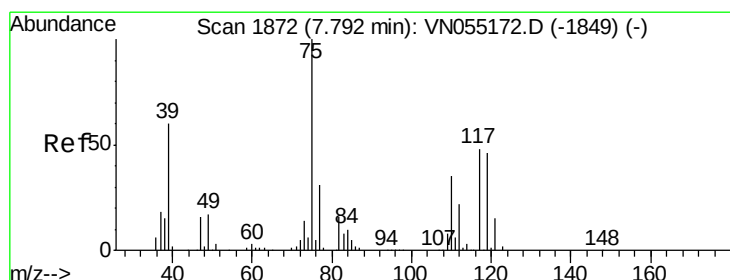
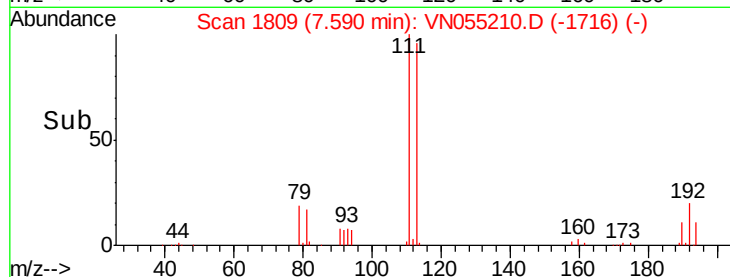
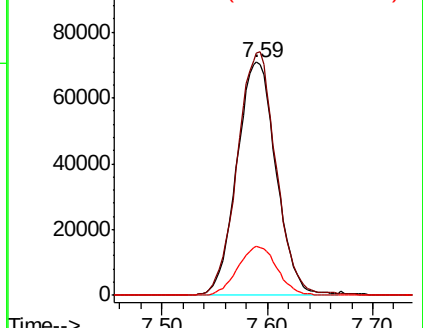
192 20.9 16.2 24.4



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: 4.666 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

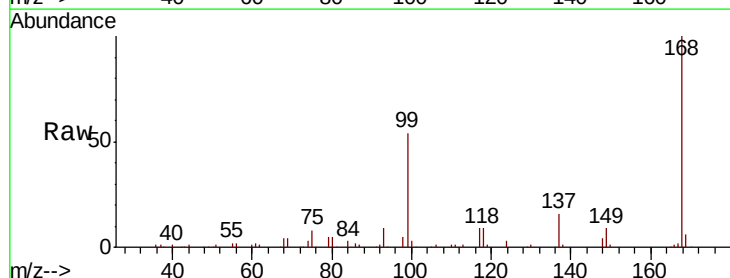
Tgt Ion: 75 Resp: 25233

Ion Ratio Lower Upper

75 100

110 9.5 17.1 51.2#

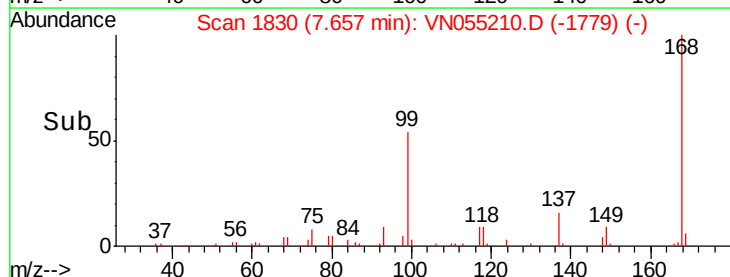
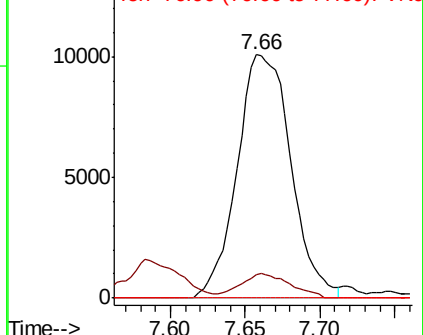
77 0.0 24.6 36.8#

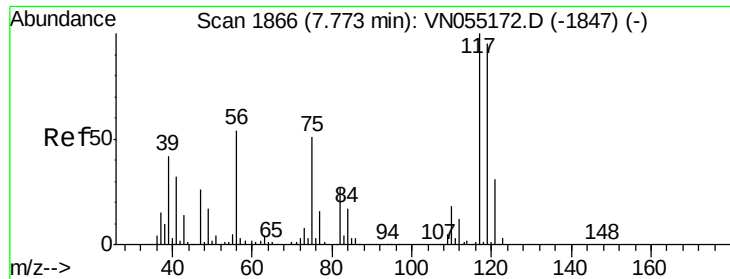


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.340 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

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PL-01-041819-C

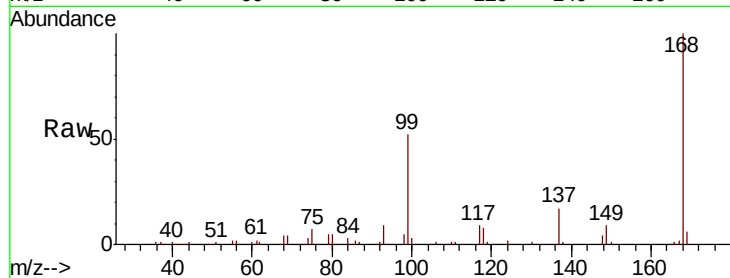
Tgt Ion:117 Resp: 32109

Ion Ratio Lower Upper

117 100

119 7.6 76.0 114.0#

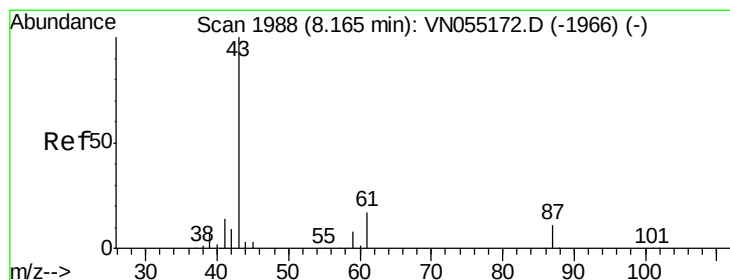
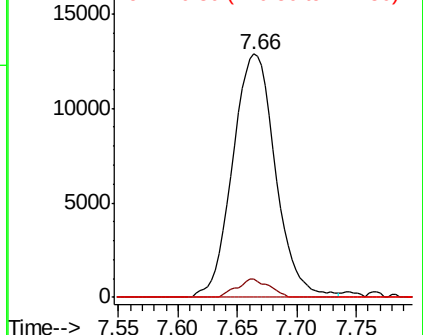
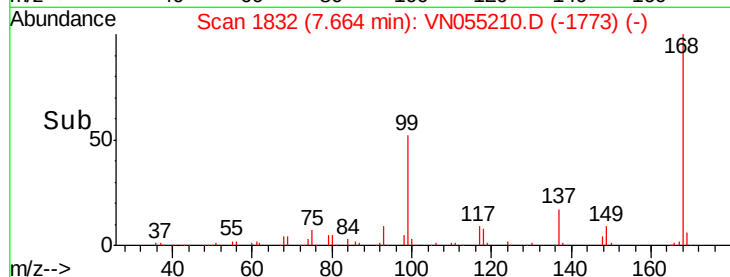
121 0.0 24.6 36.8#



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: 37.966 ug/l

RT: 8.33 min Scan# 2039

Delta R.T. 0.16 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

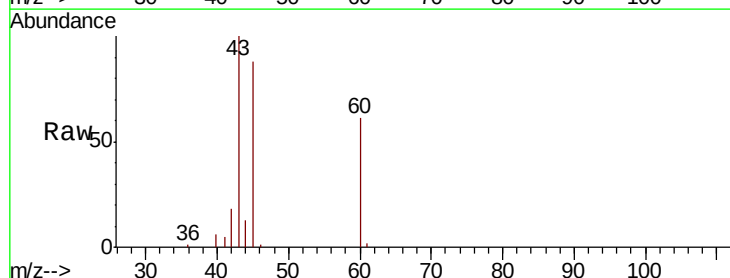
Tgt Ion: 43 Resp: 268334

Ion Ratio Lower Upper

43 100

61 0.5 20.6 30.8#

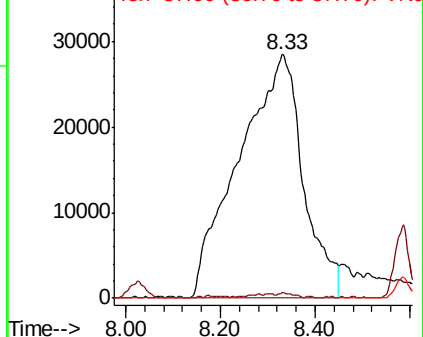
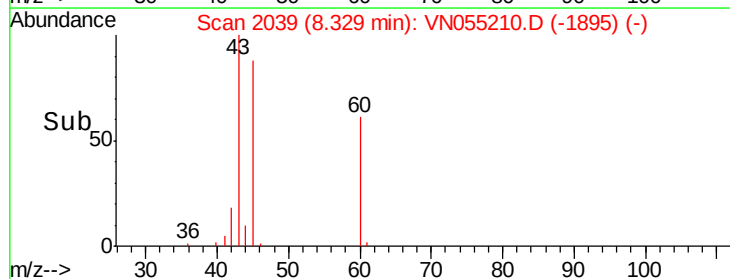
87 0.0 8.8 13.2#

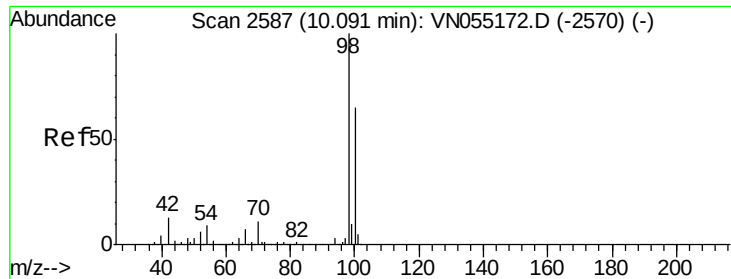


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 49.350 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

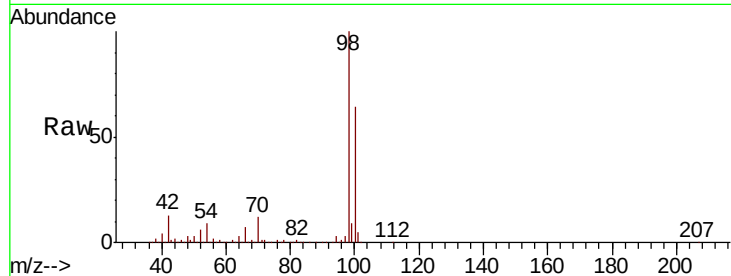
PL-01-041819-C

Tgt Ion: 98 Resp: 723796

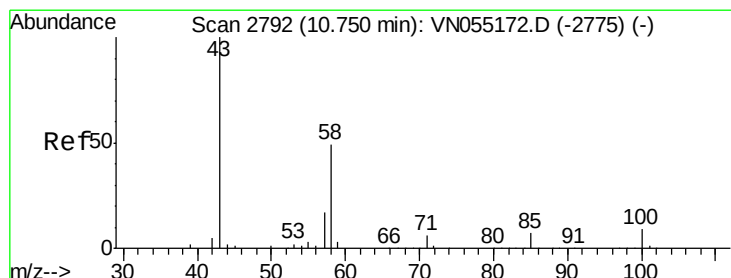
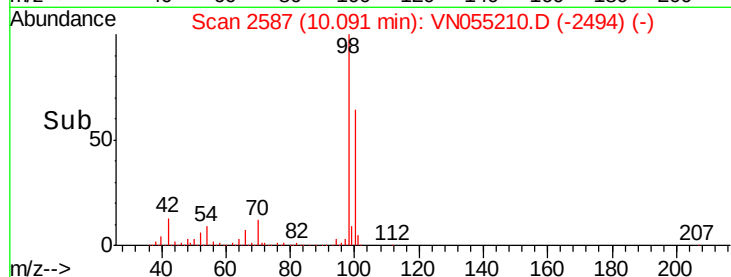
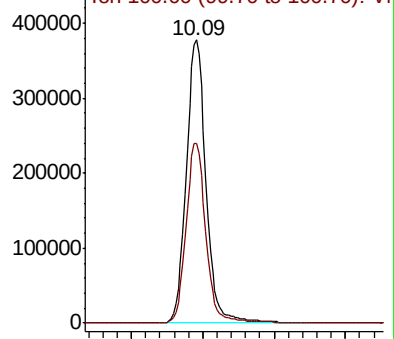
Ion Ratio Lower Upper

98 100

100 63.9 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN055210.D (-2570) (-)



#59

2-Hexanone

Concen: 0.404 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN055210.D

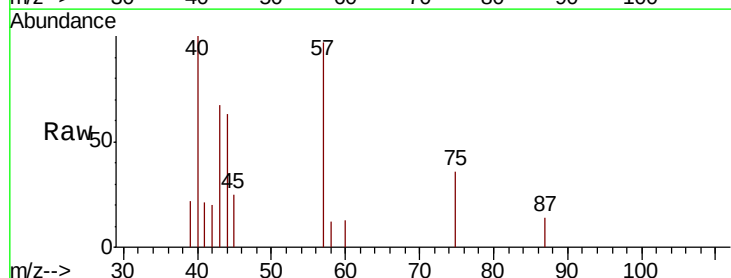
Acq: 23 Apr 2019 16:54

Tgt Ion: 43 Resp: 1039

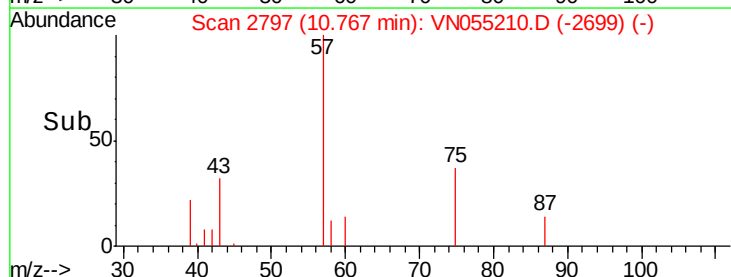
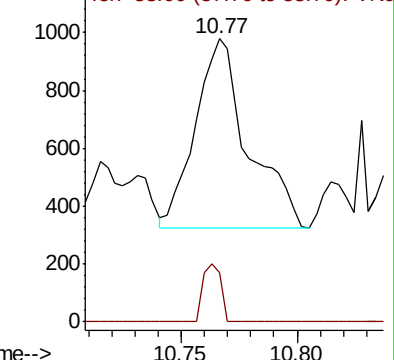
Ion Ratio Lower Upper

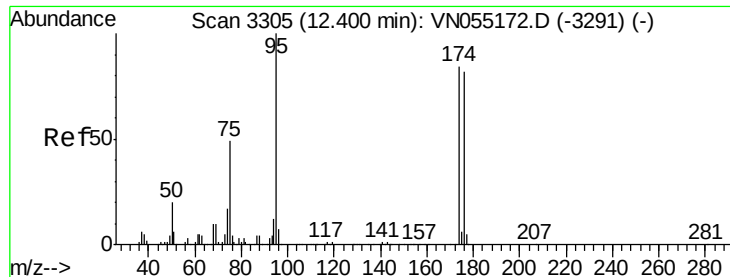
43 100

58 10.1 24.5 73.5#



Abundance Ion 43.00 (42.70 to 43.70): VN055210.D (-2699) (-)





#62

4-Bromofluorobenzene

Concen: 51.089 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampled :

PL-01-041819-C

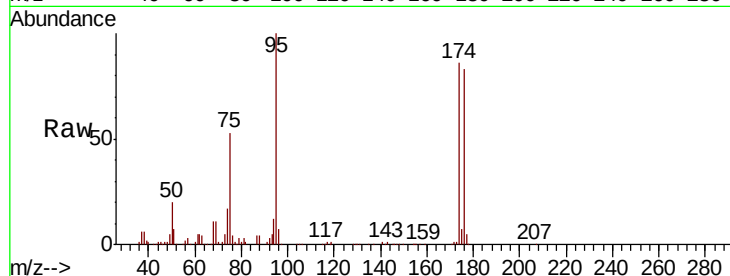
Tgt Ion: 95 Resp: 237284

Ion Ratio Lower Upper

95 100

174 85.1 0.0 168.4

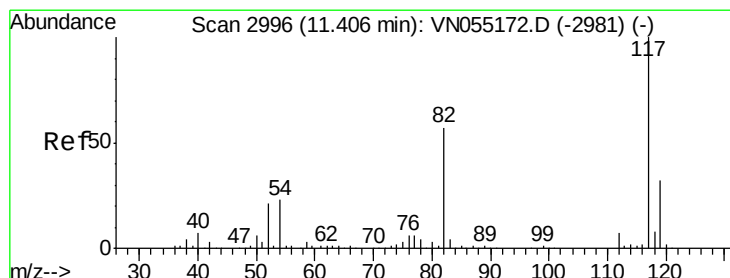
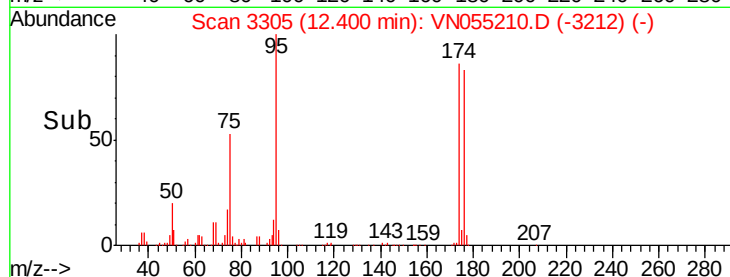
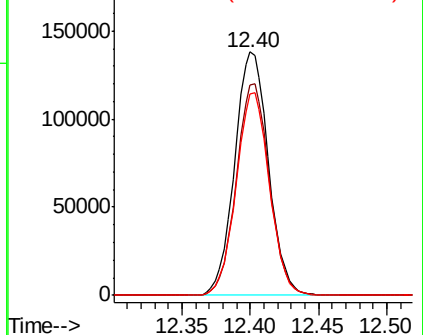
176 82.1 0.0 164.0



Abundance Ion 94.90 (94.60 to 95.60): VN055210.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055210.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055210.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

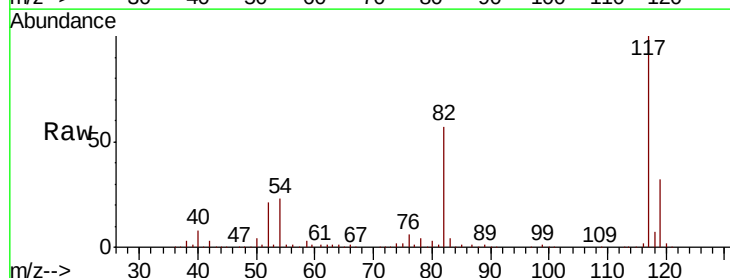
Tgt Ion: 117 Resp: 543571

Ion Ratio Lower Upper

117 100

82 57.2 45.7 68.5

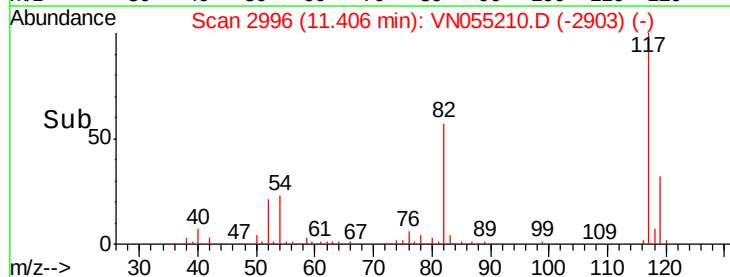
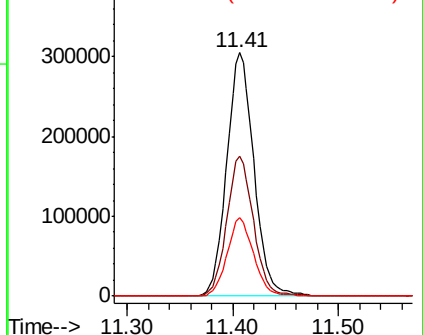
119 32.1 25.4 38.2

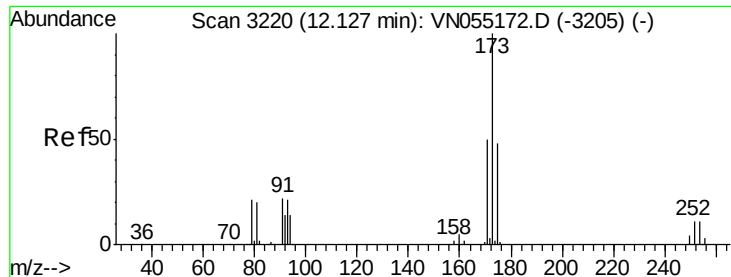


Abundance Ion 116.90 (116.60 to 117.60): VN055210.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055210.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055210.D (-2981) (-)

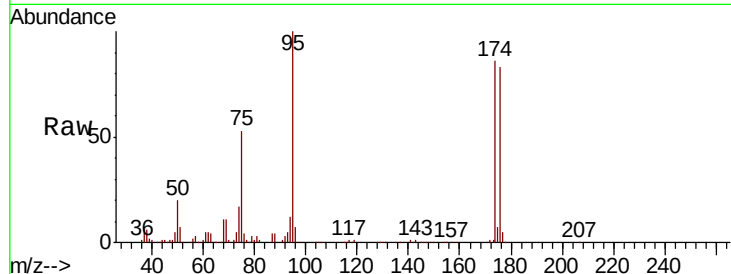




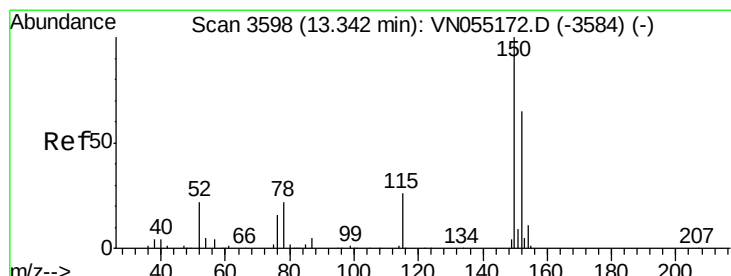
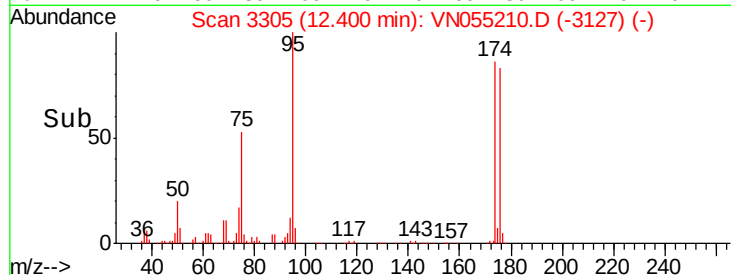
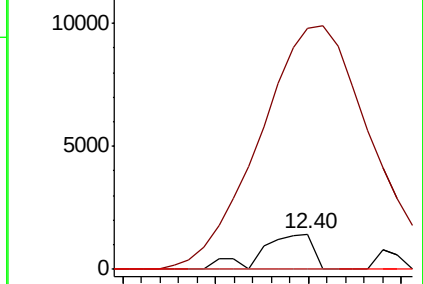
#71
Bromoform
Concen: 0.463 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055210.D
Acq: 23 Apr 2019 16:54

Instrument :
MSVOA_N
ClientSampled :
PL-01-041819-C

Tgt Ion:173 Resp: 1136
Ion Ratio Lower Upper
173 100
175 1267.6 23.8 71.2#
254 0.0 0.1 0.1#

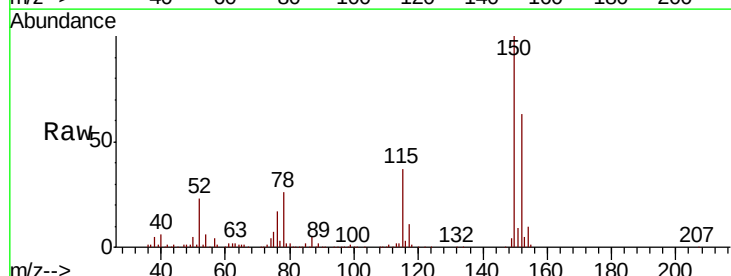


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

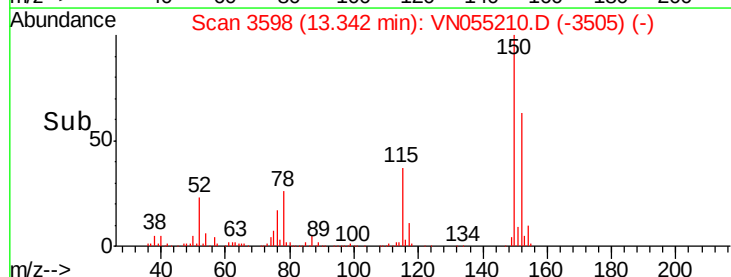
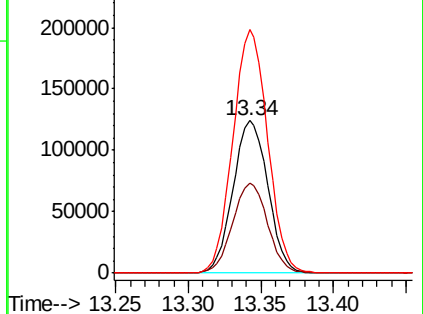


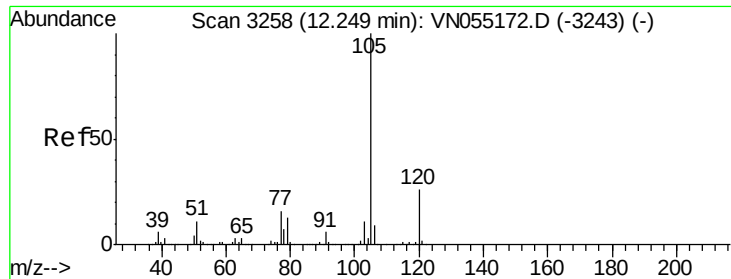
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055210.D
Acq: 23 Apr 2019 16:54

Tgt Ion:152 Resp: 208121
Ion Ratio Lower Upper
152 100
115 59.1 28.9 86.7
150 158.3 0.0 346.6



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

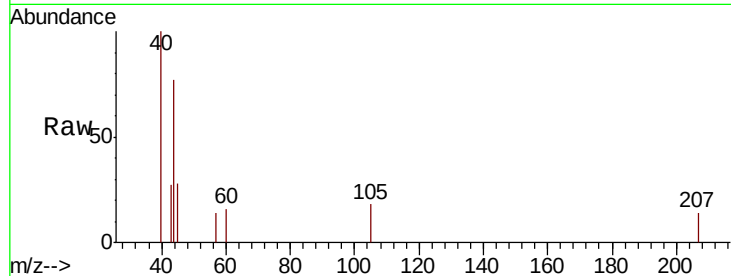
PL-01-041819-C

Tgt Ion: 105 Resp: 314

Ion Ratio Lower Upper

105 100

120 0.0 13.1 39.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.26

250

200

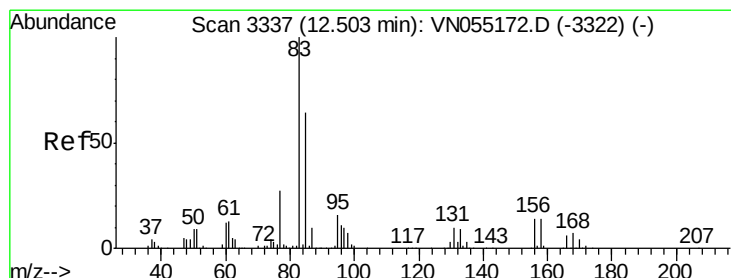
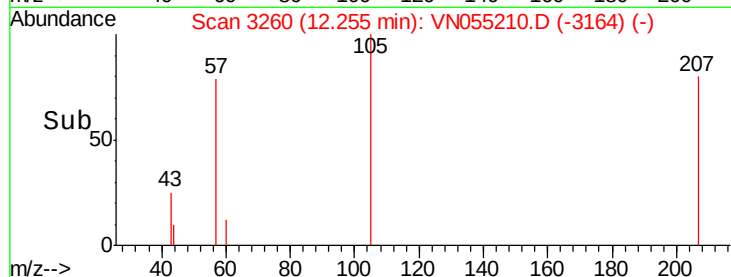
150

100

50

0

Time--> 12.22 12.24 12.26



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

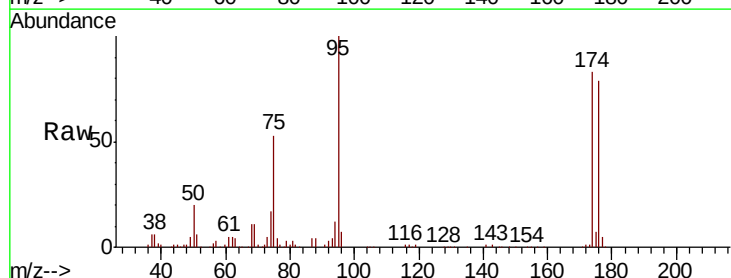
Tgt Ion: 83 Resp: 31

Ion Ratio Lower Upper

83 100

131 993.5 5.0 15.0#

85 0.0 32.1 96.3#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

400

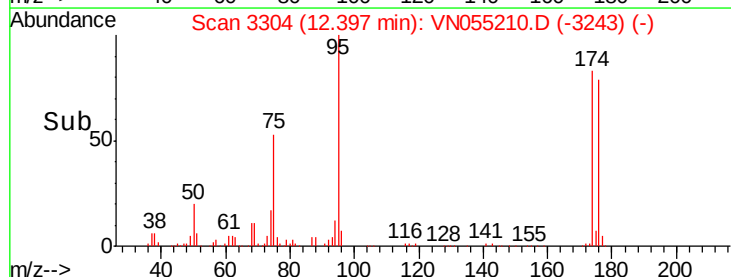
300

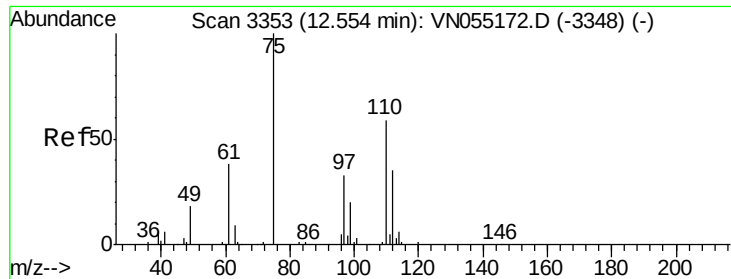
200

100

0

Time--> 12.39 12.40





#76

1,2,3-Trichloropropane

Concen: 29.336 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

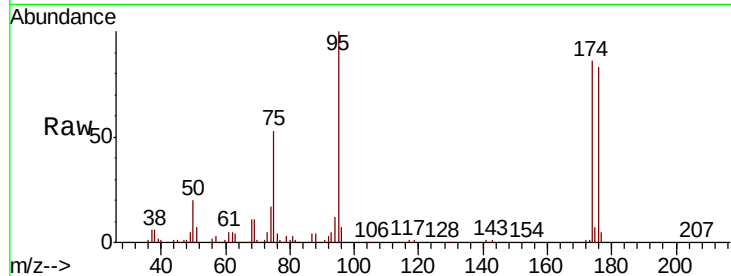
PL-01-041819-C

Tgt Ion: 75 Resp: 123861

Ion Ratio Lower Upper

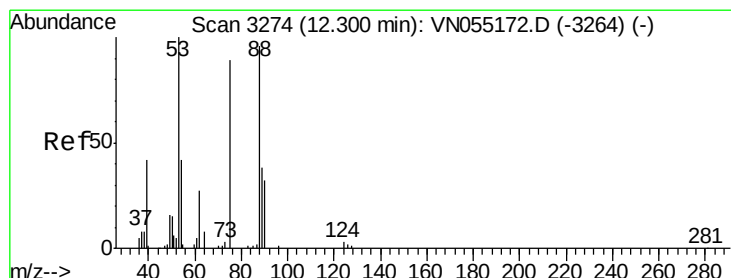
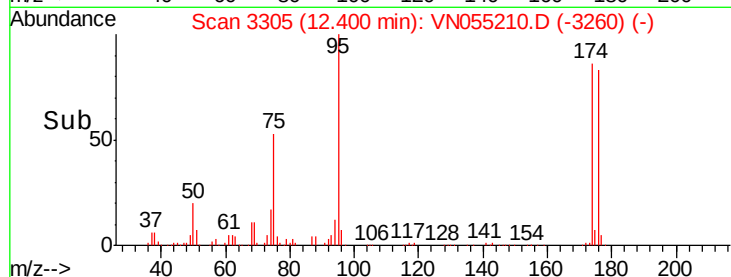
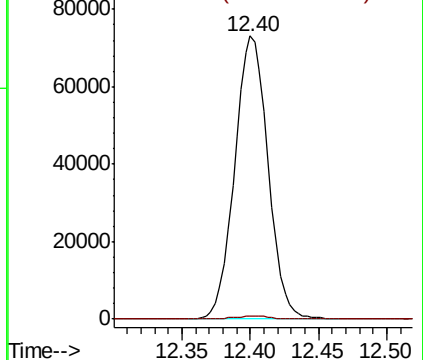
75 100

77 1.1 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: 111.206 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055210.D

Acq: 23 Apr 2019 16:54

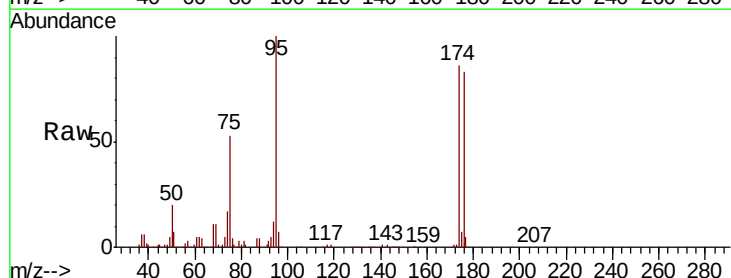
Tgt Ion: 75 Resp: 123861

Ion Ratio Lower Upper

75 100

53 0.1 90.1 135.1#

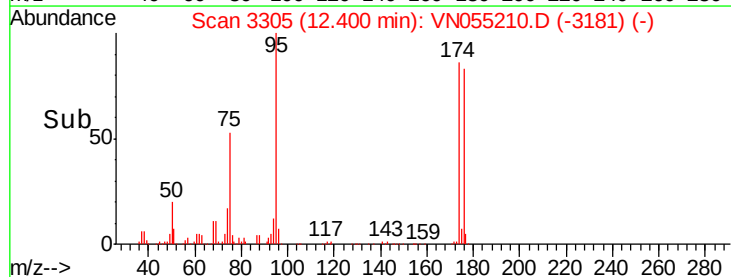
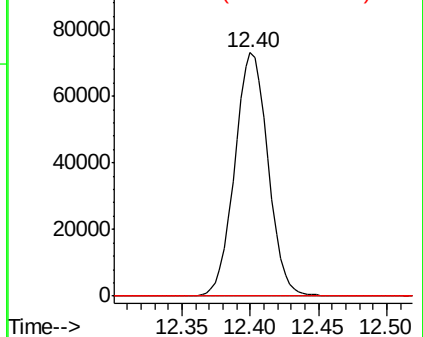
89 0.0 36.7 55.1#

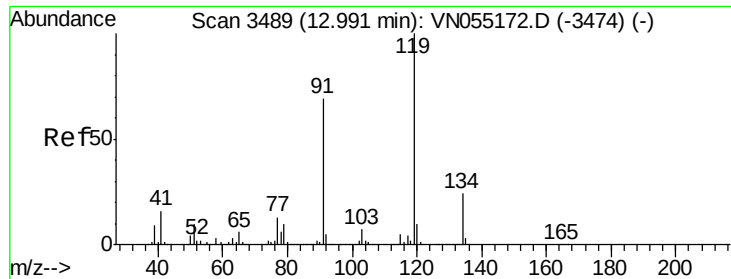


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

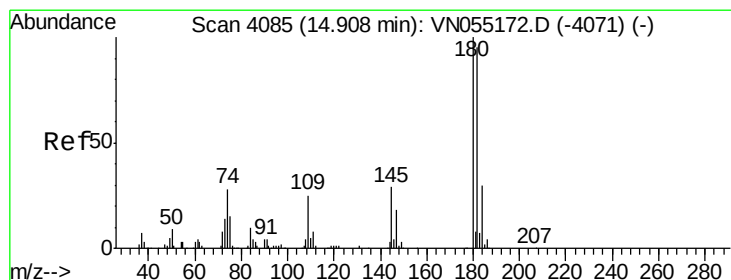
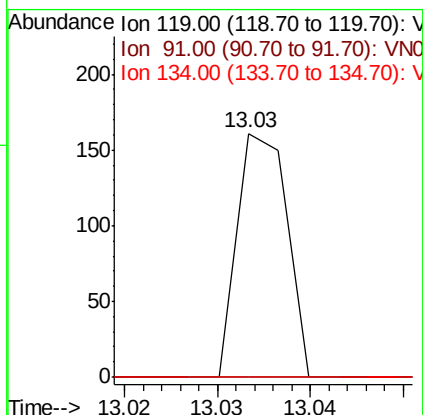
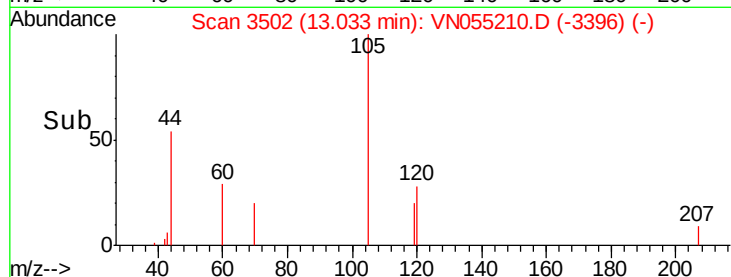
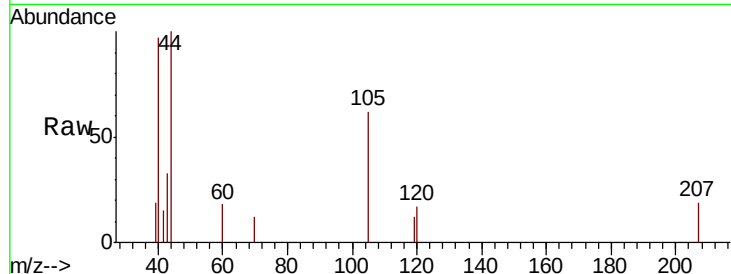




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.03 min Scan# 3502
 Delta R.T. 0.04 min
 Lab File: VN055210.D
 Acq: 23 Apr 2019 16:54

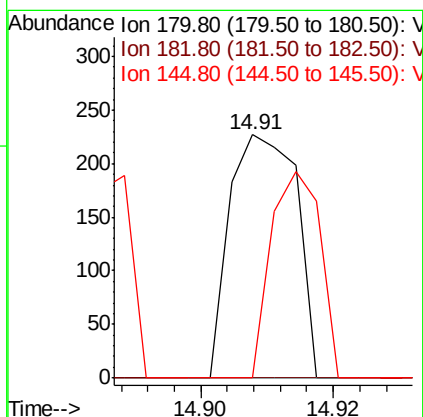
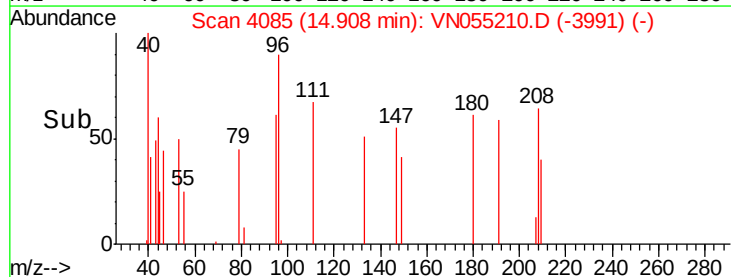
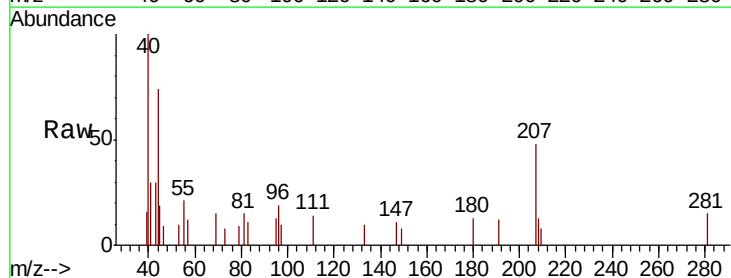
Instrument :
 MSVOA_N
 ClientSampled :
 PL-01-041819-C

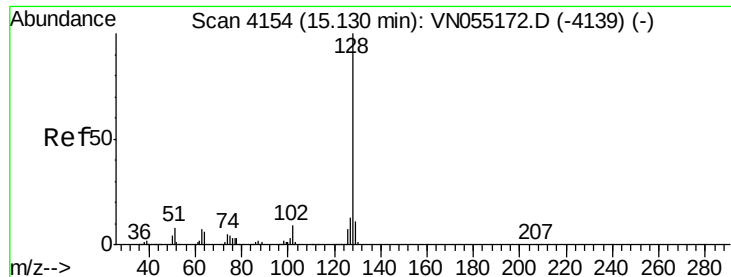
Tgt Ion:119 Resp: 60
 Ion Ratio Lower Upper
 119 100
 91 0.0 33.8 101.3#
 134 0.0 13.2 39.5#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.787 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055210.D
 Acq: 23 Apr 2019 16:54

Tgt Ion:180 Resp: 159
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.8 143.4#
 145 62.3 14.5 43.5#





#95
Naphthalene
Concen: 6.900 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055210.D
Acq: 23 Apr 2019 16:54

Instrument :
MSVOA_N
ClientSampleId :
PL-01-041819-C

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.3	15.5
129	11.2	8.8	13.2

