

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056092.D
 Acq On : 7 Jun 2019 11:59
 Operator : JC/SP
 Sample : VN0608WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 08 05:09:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	326304	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	496606	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	444464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	123566	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	159107	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
35) Dibromofluoromethane	7.59	113	144691	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	
50) Toluene-d8	10.09	98	583081	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	
62) 4-Bromofluorobenzene	12.40	95	166476	41.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.50%	

Target Compounds

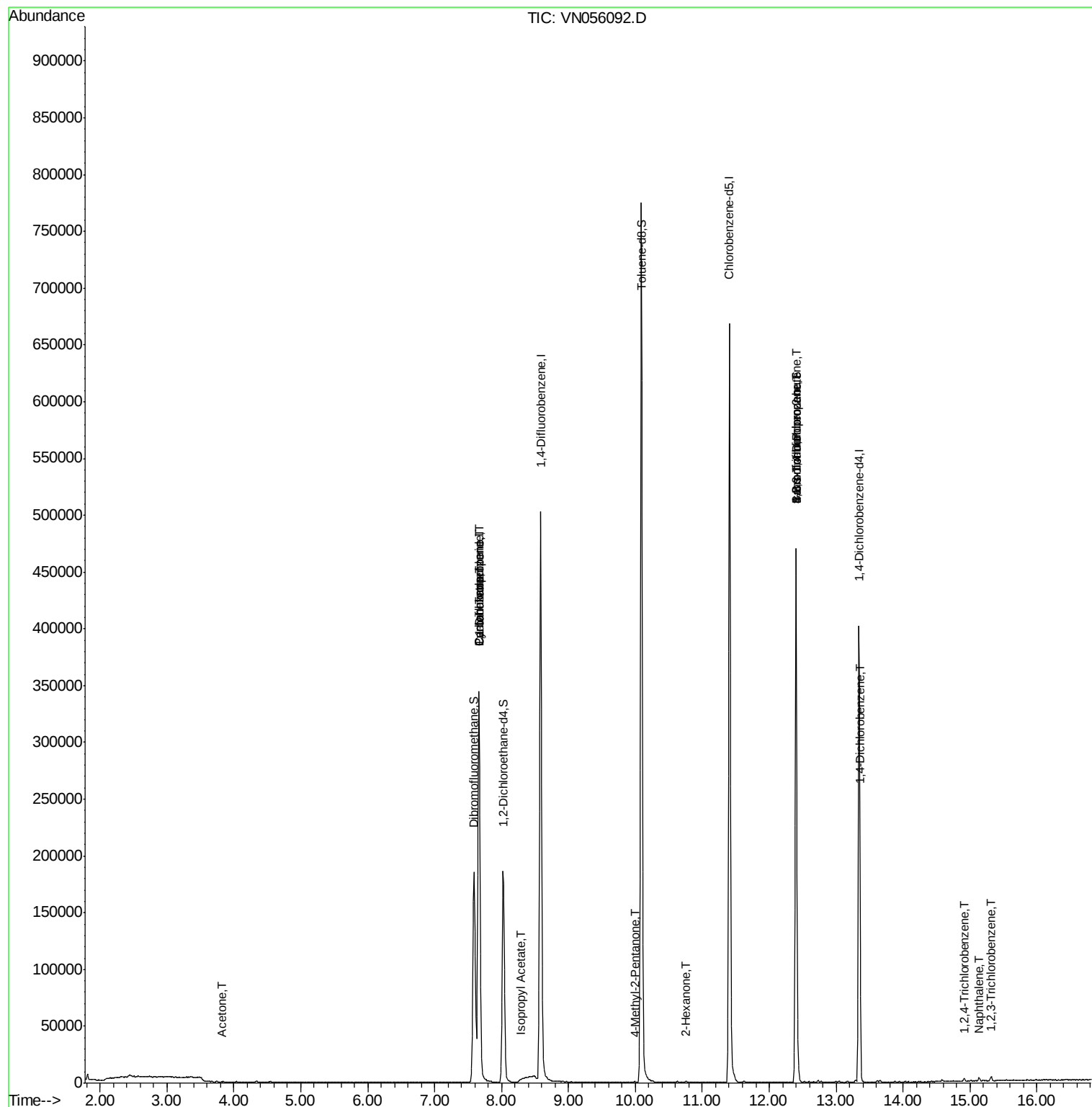
					Qvalue	
16) Acetone	3.83	43	873	0.563	ug/l #	41
18) Methyl Acetate	4.33	43	887	Below Cal	#	51
31) Cyclohexane	7.66	56	4599	0.895	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19463	4.558	ug/l #	47
38) Carbon Tetrachloride	7.66	117	26079	6.624	ug/l #	15
43) Isopropyl Acetate	8.28	43	2231	0.362	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1051	0.273	ug/l #	35
59) 2-Hexanone	10.76	43	1501	0.538	ug/l	62
71) Bromoform	12.40	173	1180	3.177	ug/l #	1
73) Isopropylbenzene	12.25	105	518	Below Cal	#	59
76) 1,2,3-Trichloropropane	12.40	75	75839	33.355	ug/l #	100
79) 2-Chlorotoluene	12.78	91	748	Below Cal		75
81) trans-1,4-Dichloro-2-buten	12.40	75	75839	111.080	ug/l #	15
83) tert-Butylbenzene	12.99	119	508	Below Cal	#	79
88) 1,4-Dichlorobenzene	13.36	146	1016	0.258	ug/l #	50
93) 1,2,4-Trichlorobenzene	14.91	180	1372	4.821	ug/l	89
94) Hexachlorobutadiene	15.01	225	391	Below Cal	#	19
95) Naphthalene	15.14	128	3460	4.392	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.32	180	1975	3.830	ug/l	90

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

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QLast Update : Tue Jun 04 11:02:09 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

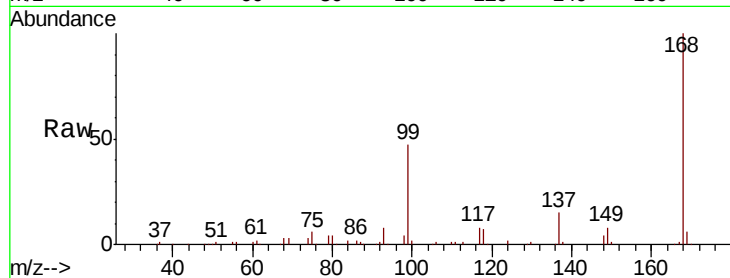
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 326304

Ion Ratio Lower Upper

168 100

99 46.5 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

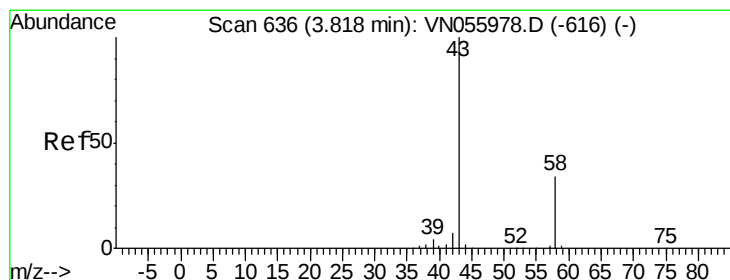
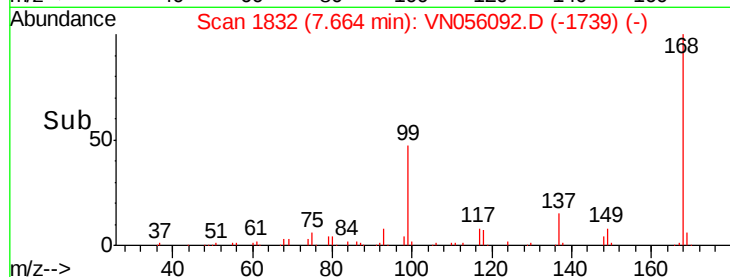
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 0.563 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056092.D

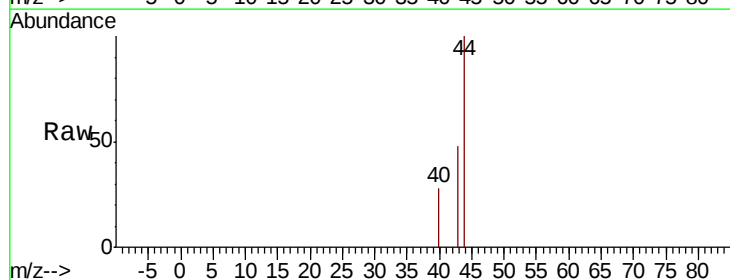
Acq: 7 Jun 2019 11:59

Tgt Ion: 43 Resp: 873

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.83

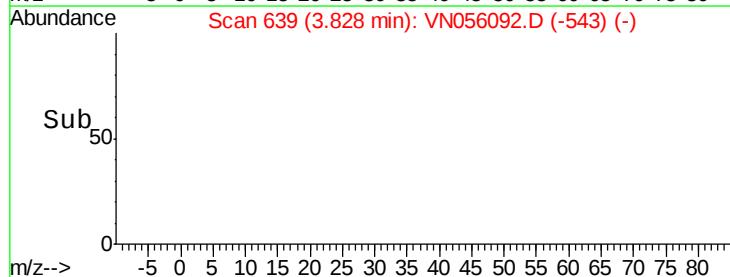
300

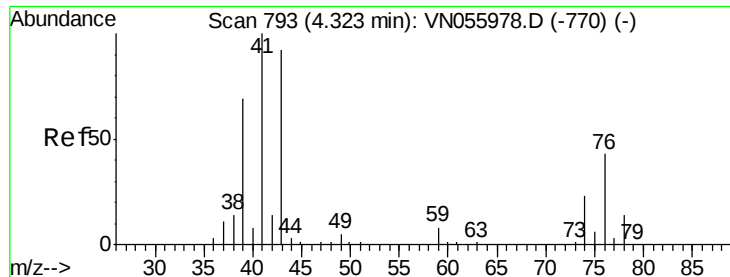
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100

0

Time-->

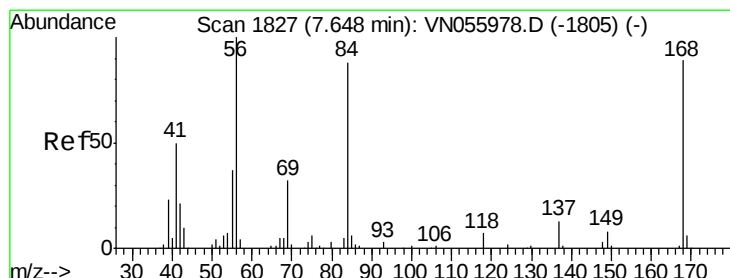
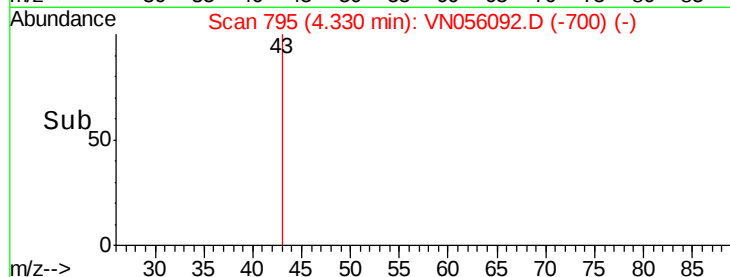
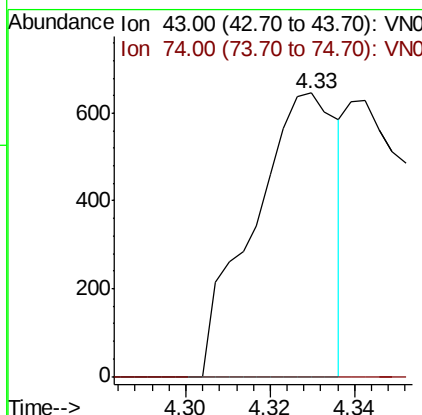
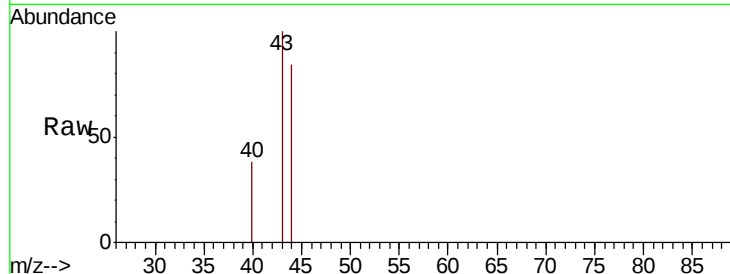




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

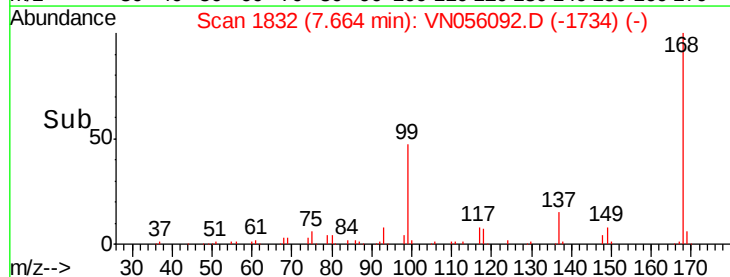
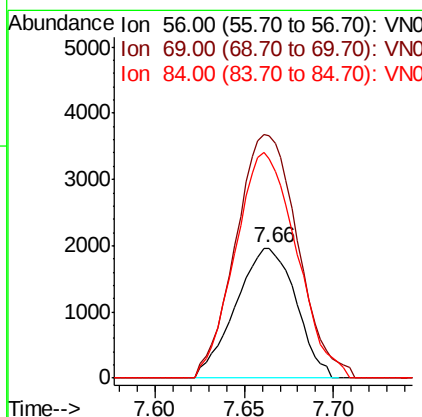
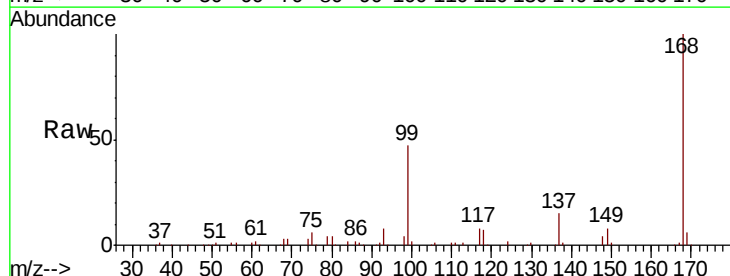
Instrument :
MSVOA_N
ClientSampleId :

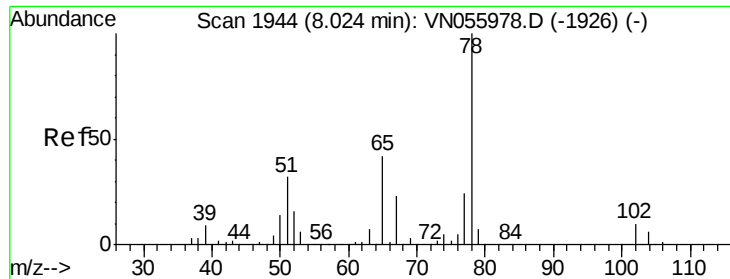
Tot Ion: 43 Resp: 887
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#31
Cyclohexane
Concen: 0.895 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

Tgt Ion: 56 Resp: 4599
Ion Ratio Lower Upper
56 100
69 186.9 25.6 38.4#
84 169.0 67.4 101.0#

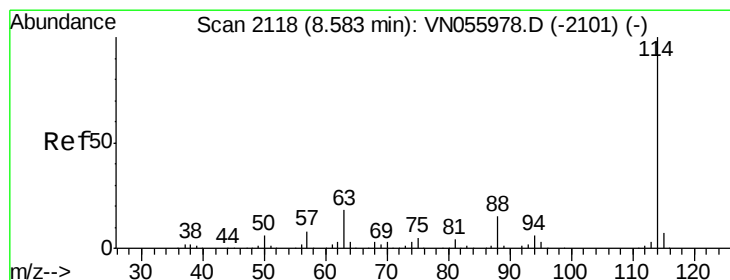
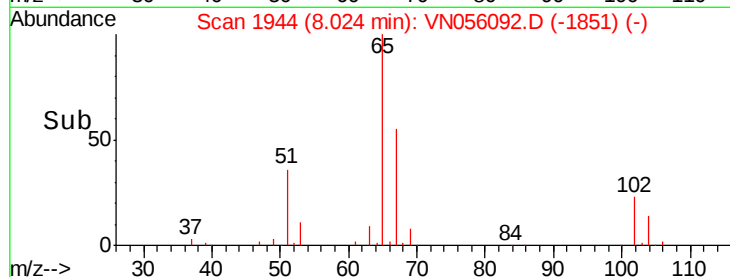
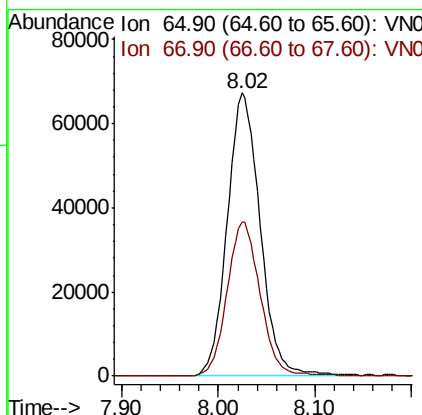
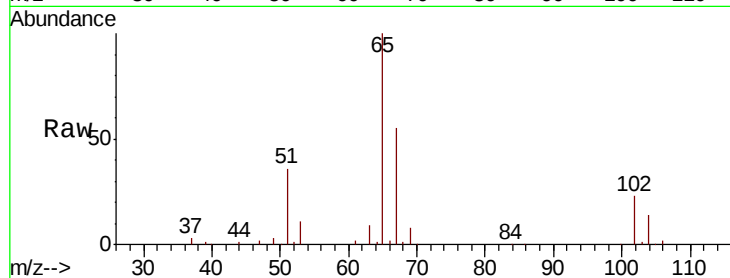




#33
 1,2-Dichloroethane-d4
 Concen: 49.108 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN056092.D
 Acq: 7 Jun 2019 11:59

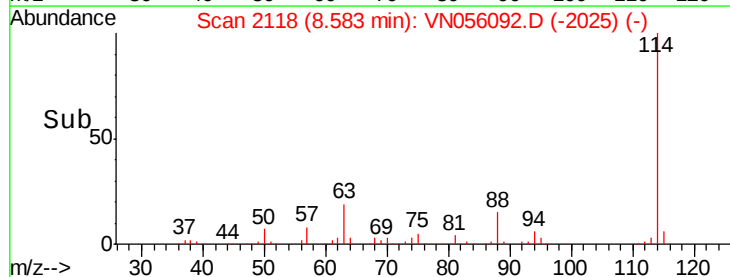
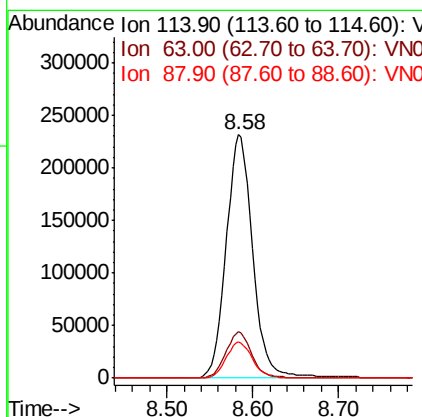
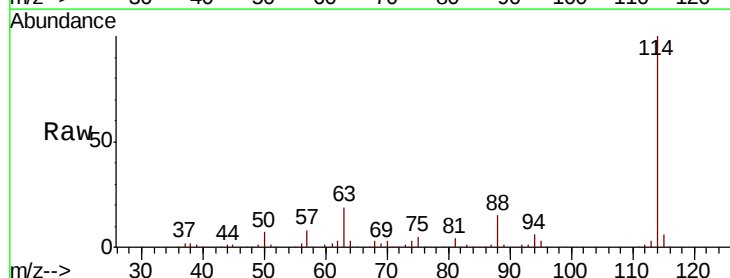
Instrument :
 MSVOA_N
 ClientSampleId :

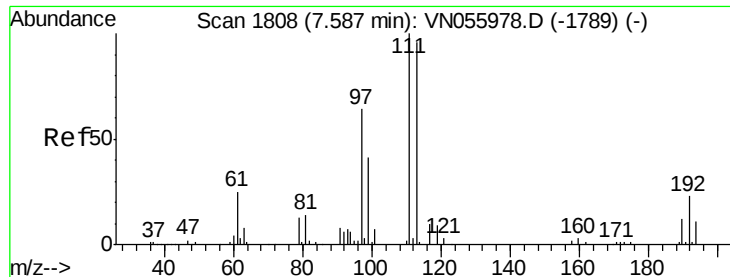
Tot Ion: 65 Resp: 159107
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056092.D
 Acq: 7 Jun 2019 11:59

Tgt Ion: 114 Resp: 496606
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 14.9 0.0 31.0

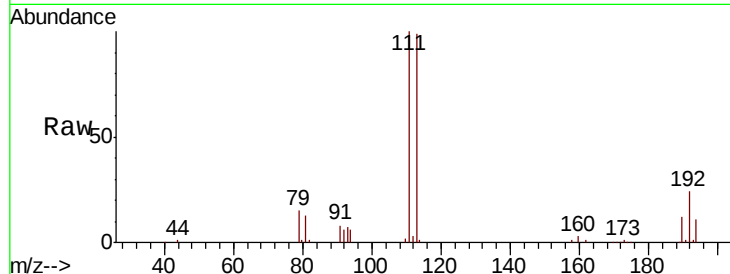




#35
 Dibromofluoromethane
 Concen: 47.489 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056092.D
 Acq: 7 Jun 2019 11:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	23.4	19.5	29.3

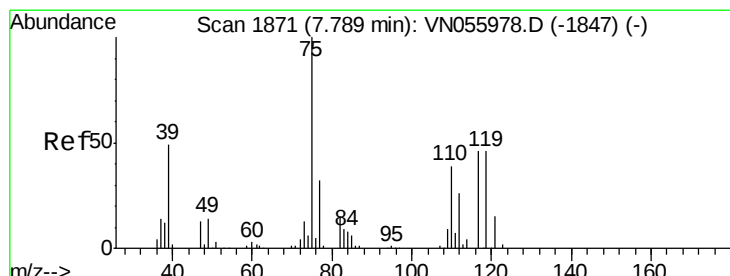
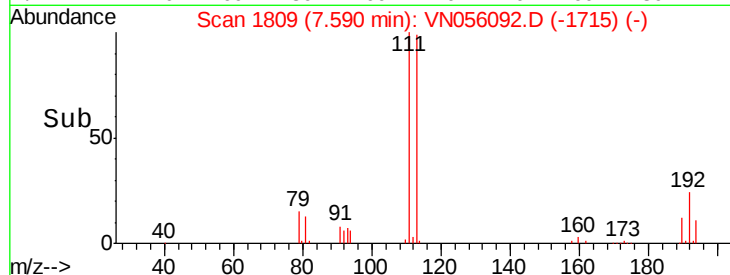
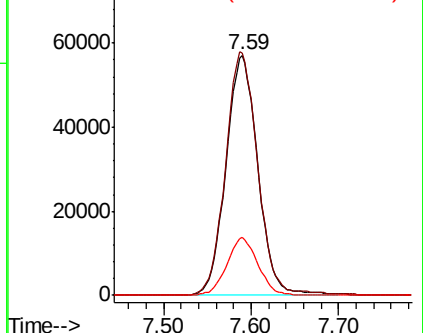


Abundance

Ion 112.80 (112.50 to 113.50): V

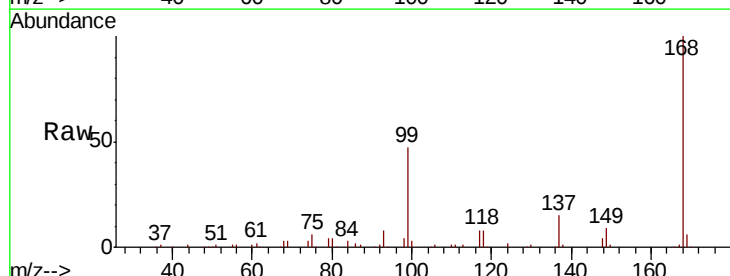
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.558 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN056092.D
 Acq: 7 Jun 2019 11:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	19.0	57.0#
77	0.0	25.1	37.7#

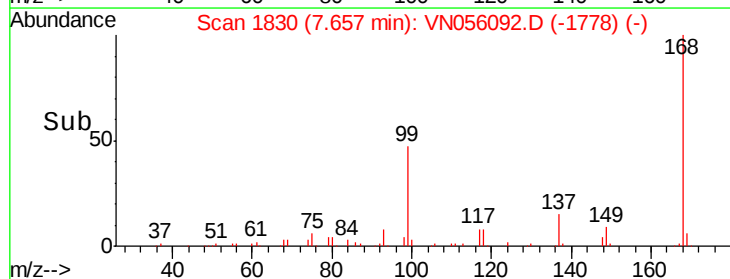
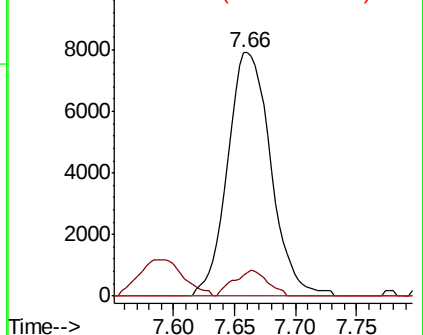


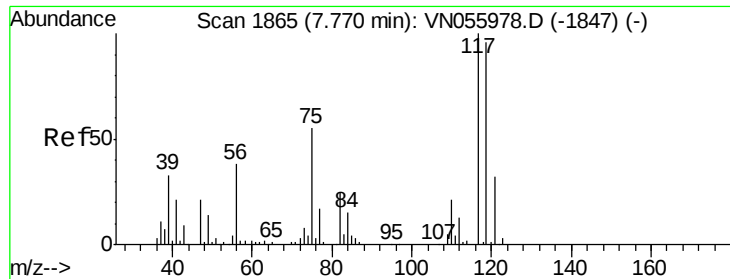
Abundance

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

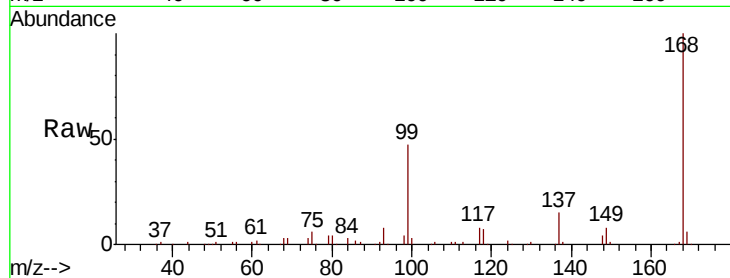




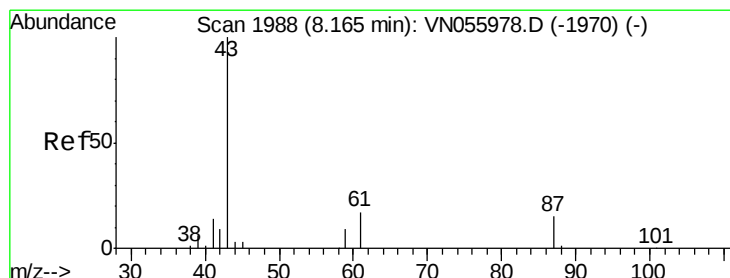
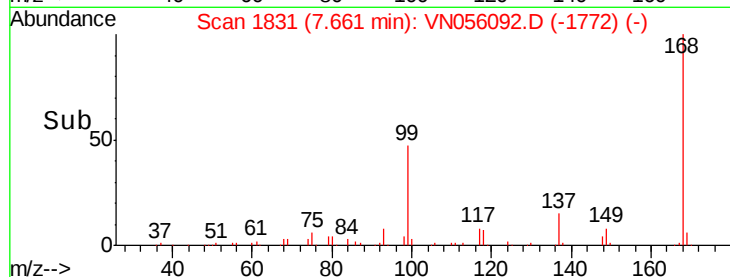
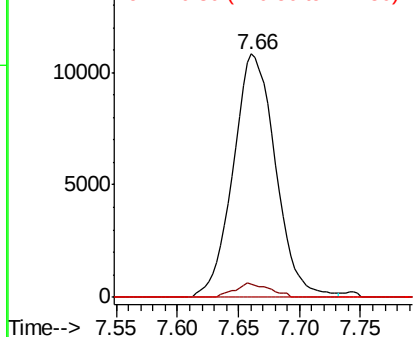
#38
Carbon Tetrachloride
Concen: 6.624 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 26079
Ion Ratio Lower Upper
117 100
119 5.6 79.0 118.6#
121 0.0 24.7 37.1#

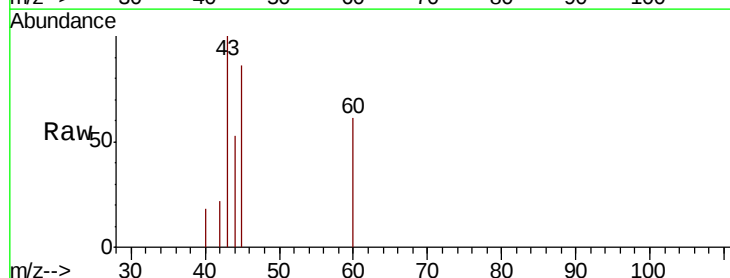


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

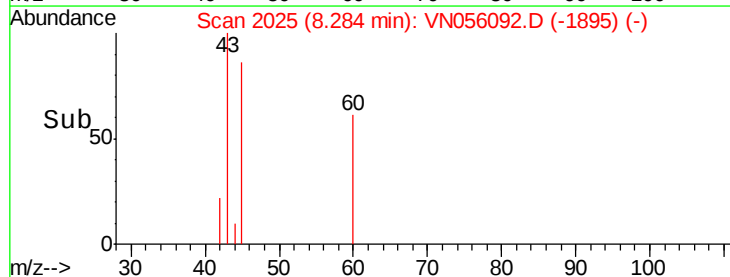
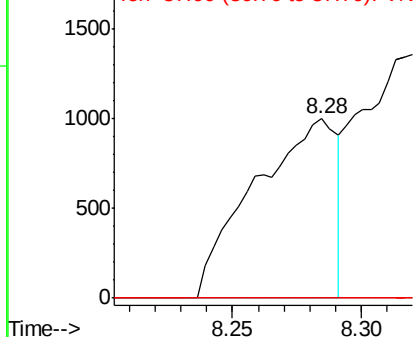


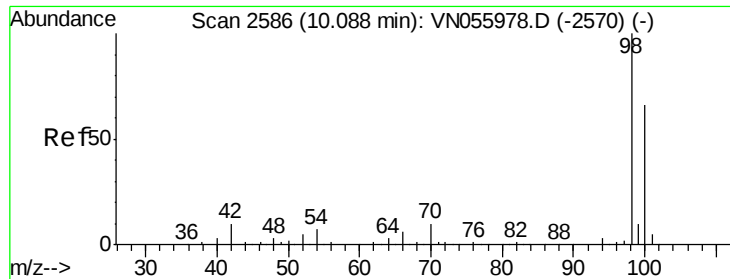
#43
Isopropyl Acetate
Concen: 0.362 ug/l
RT: 8.28 min Scan# 2025
Delta R.T. 0.12 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

Tgt Ion: 43 Resp: 2231
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



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: 49.733 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

Instrument :

MSVOA_N

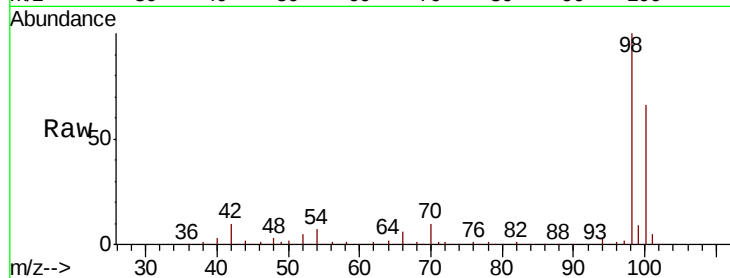
ClientSampled :

Tot Ion: 98 Resp: 583081

Ion Ratio Lower Upper

98 100

100 65.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

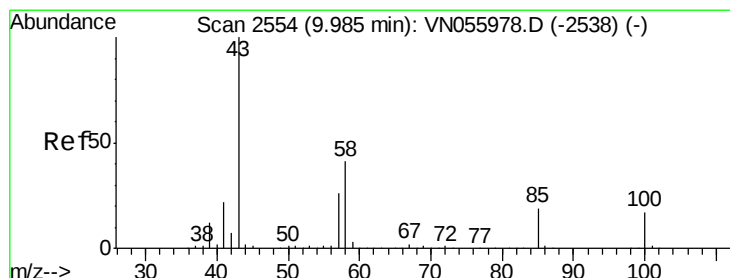
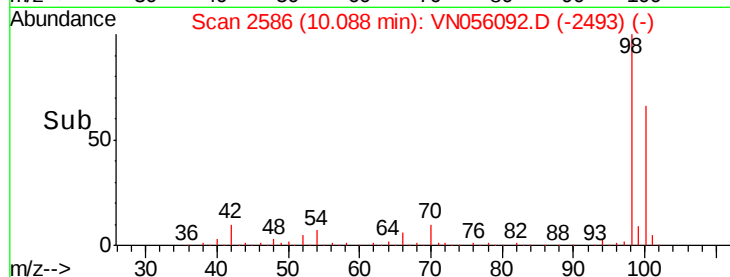
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.273 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056092.D

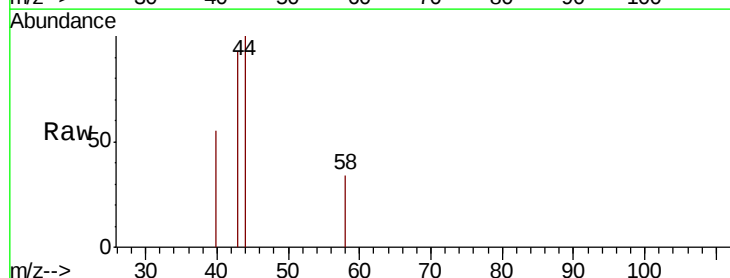
Acq: 7 Jun 2019 11:59

Tgt Ion: 43 Resp: 1051

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

9.99

500

400

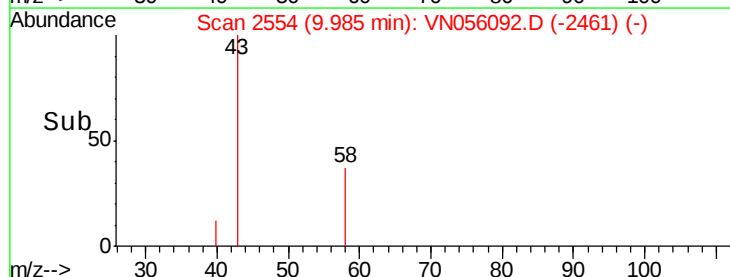
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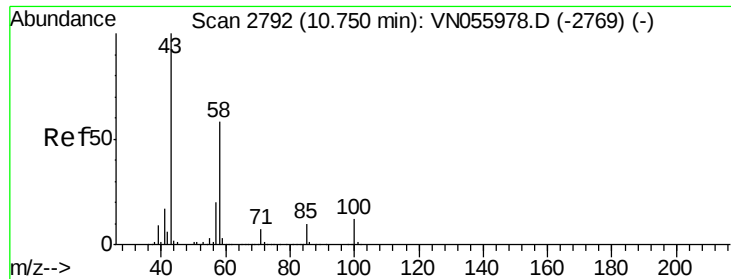
200

100

0

Time-->

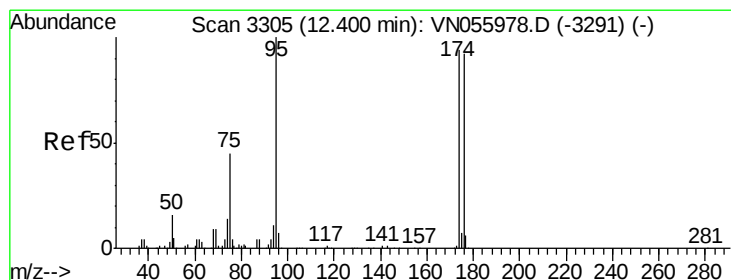
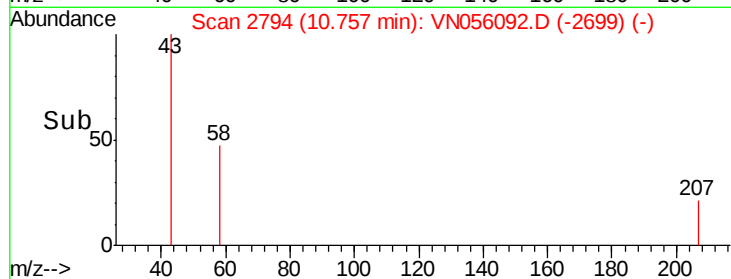
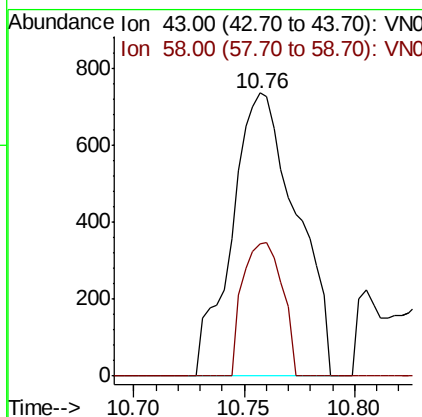
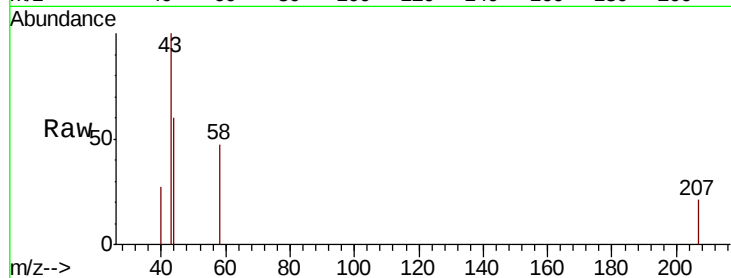




#59
2-Hexanone
Concen: 0.538 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

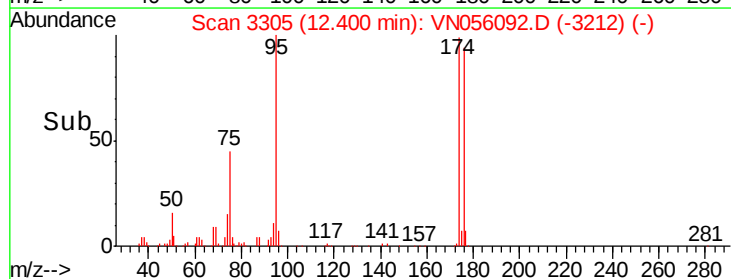
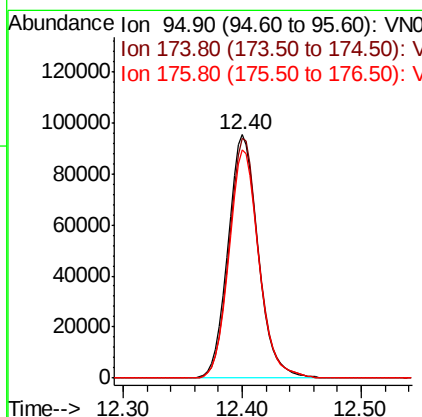
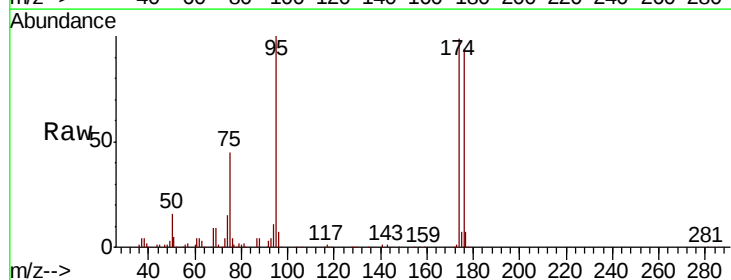
Instrument :
MSVOA_N
ClientSampleId :

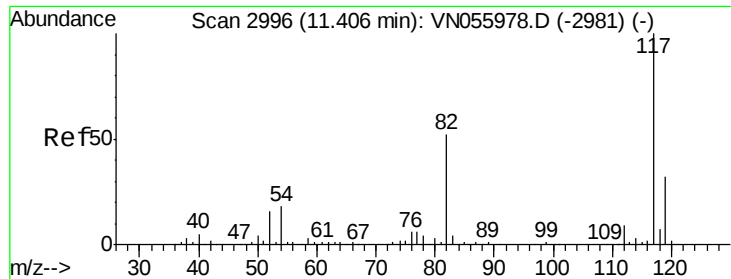
Tot Ion: 43 Resp: 1501
Ion Ratio Lower Upper
43 100
58 28.8 28.2 84.7



#62
4-Bromofluorobenzene
Concen: 41.753 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

Tgt Ion: 95 Resp: 166476
Ion Ratio Lower Upper
95 100
174 97.3 0.0 191.0
176 93.5 0.0 185.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

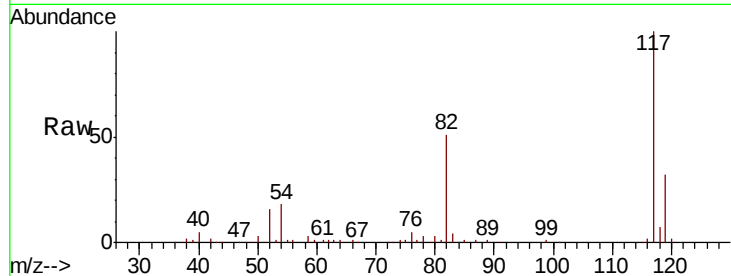
Tot Ion:117 Resp: 444464

Ion Ratio Lower Upper

117 100

82 50.9 41.8 62.8

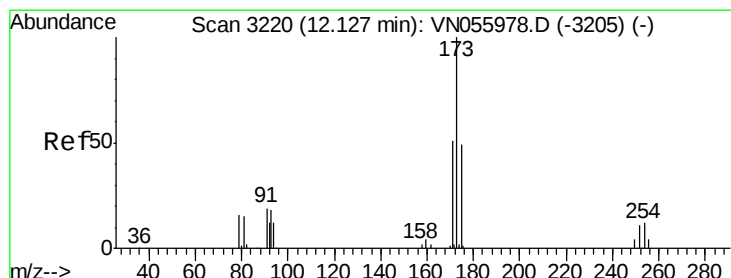
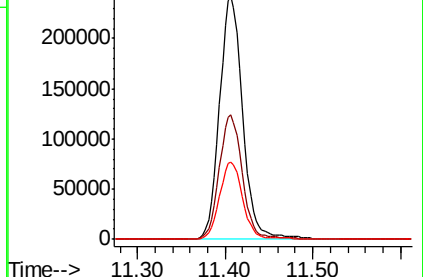
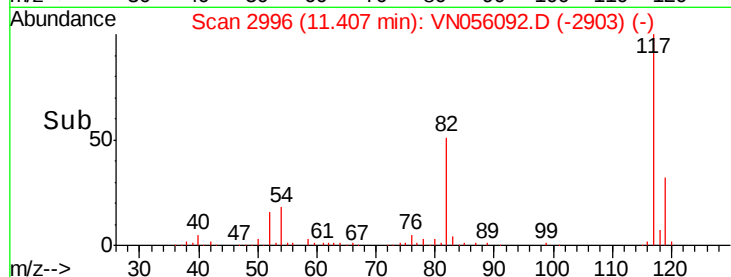
119 31.9 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.177 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

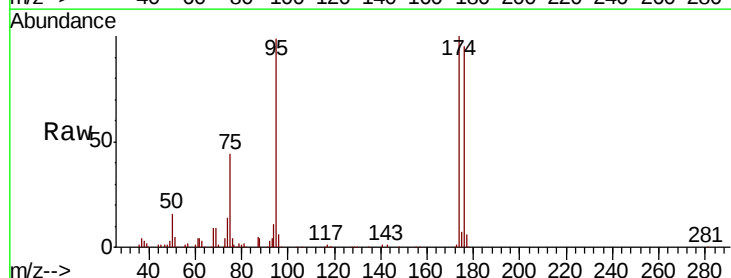
Tgt Ion:173 Resp: 1180

Ion Ratio Lower Upper

173 100

175 835.4 24.3 72.8#

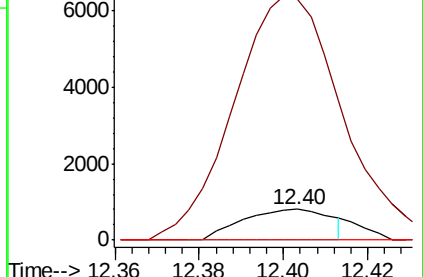
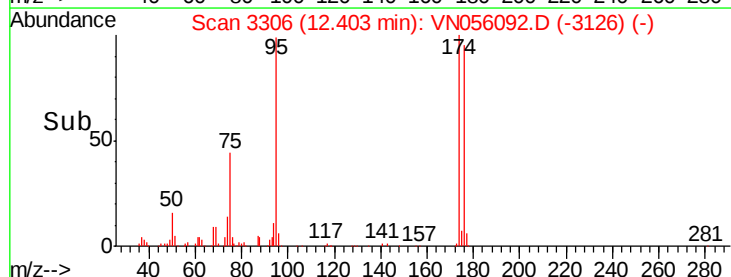
254 0.0 0.0 0.0

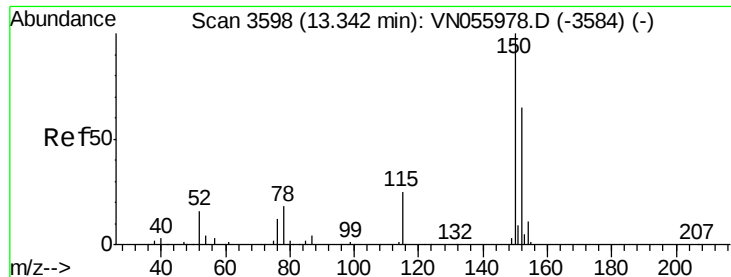


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



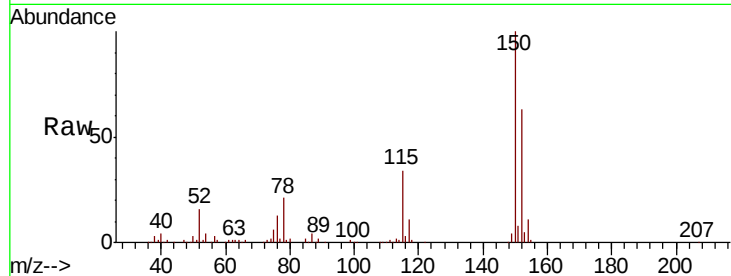


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	52.9	27.0	81.0
150	156.9	0.0	343.2

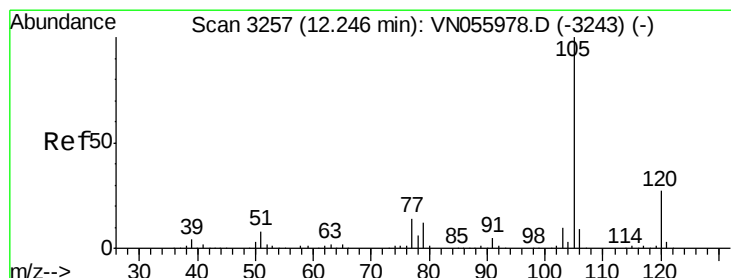
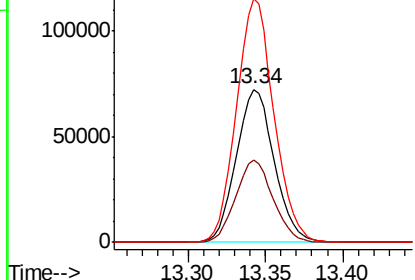
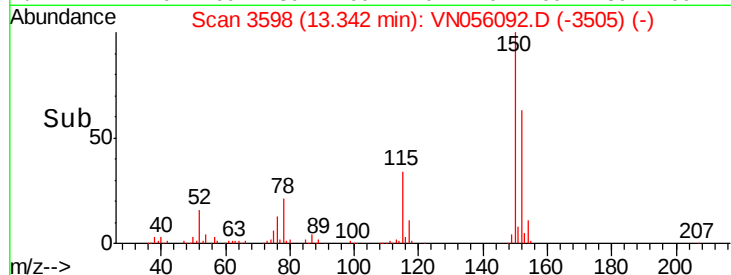


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

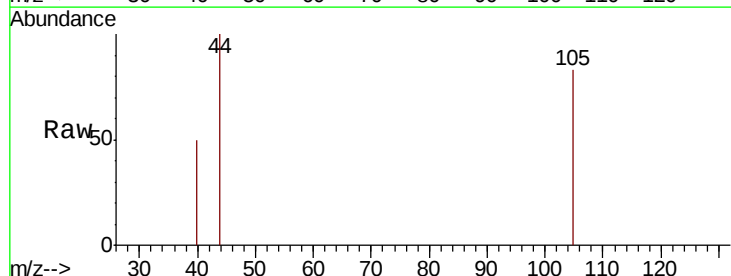
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3257
Delta R.T. 0.00 min
Lab File: VN056092.D
Acq: 7 Jun 2019 11:59

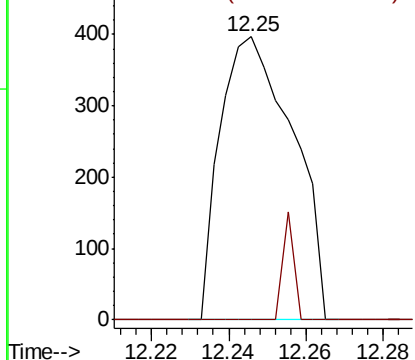
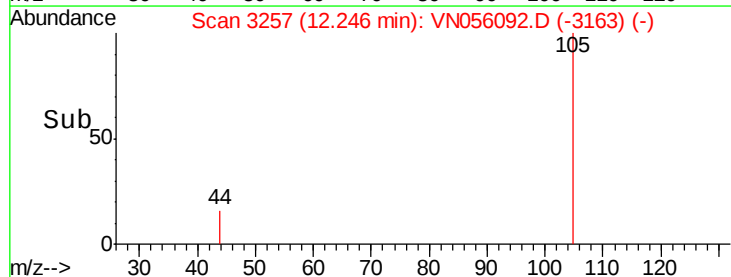
Tgt Ion	Ratio	Lower	Upper
105	100		
120	5.6	13.6	40.7#

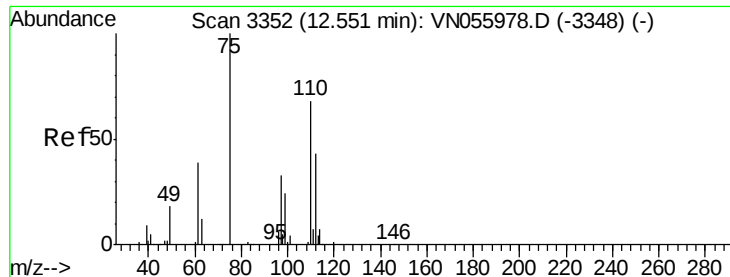


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.355 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

Instrument :

MSVOA_N

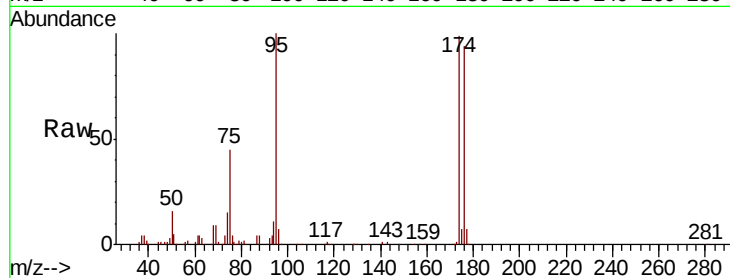
ClientSampleId :

Tot Ion: 75 Resp: 75839

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

12.40

40000

30000

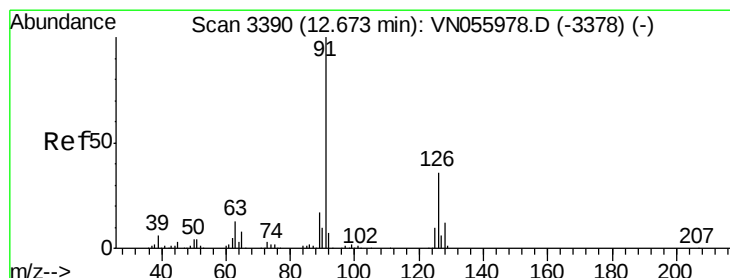
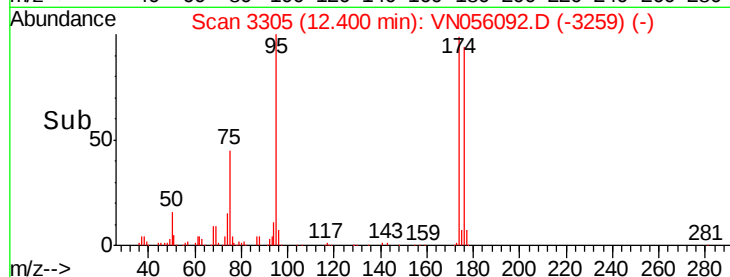
20000

10000

0

Time-->

12.35 12.40 12.45 12.50



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.78 min Scan# 3422

Delta R.T. 0.10 min

Lab File: VN056092.D

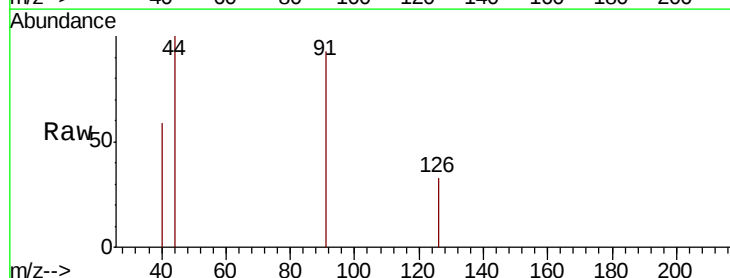
Acq: 7 Jun 2019 11:59

Tgt Ion: 91 Resp: 748

Ion Ratio Lower Upper

91 100

126 21.4 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.78

500

400

300

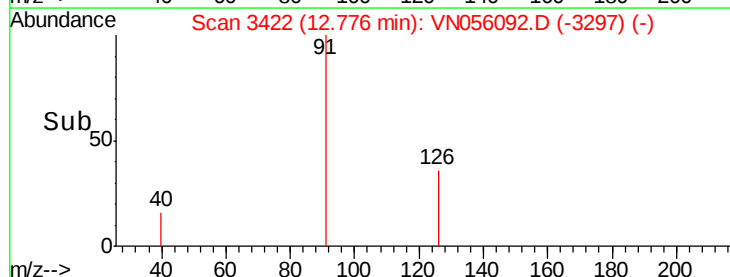
200

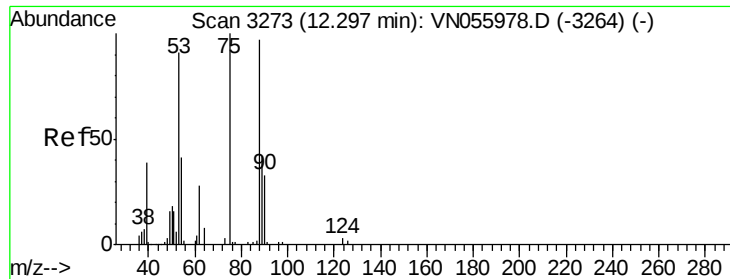
100

0

Time-->

12.75 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 111.080 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

Instrument :

MSVOA_N

ClientSampled :

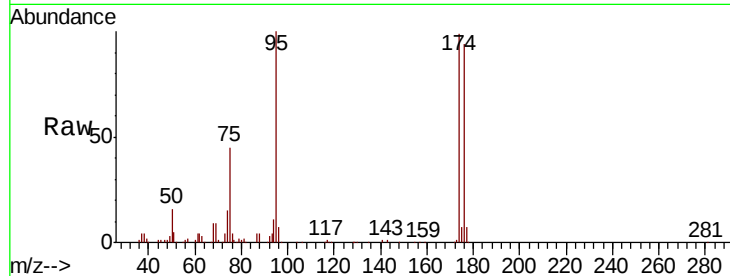
Tot Ion: 75 Resp: 75839

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

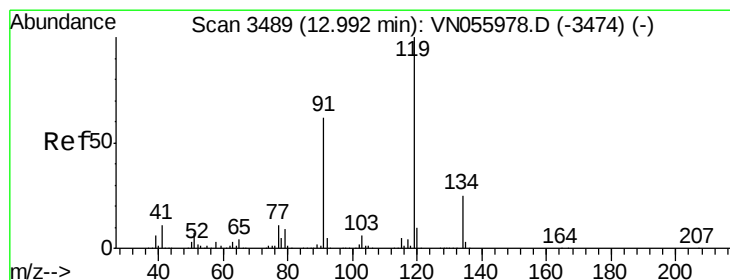
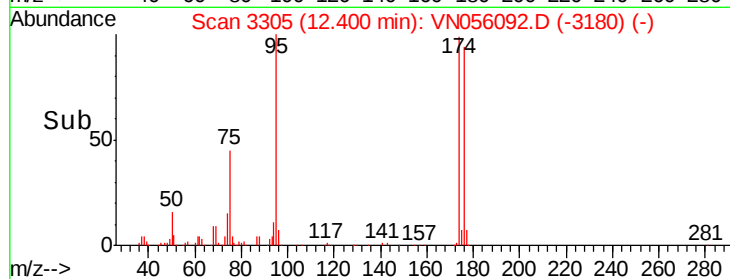
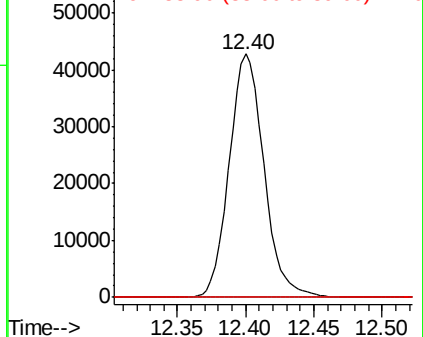
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

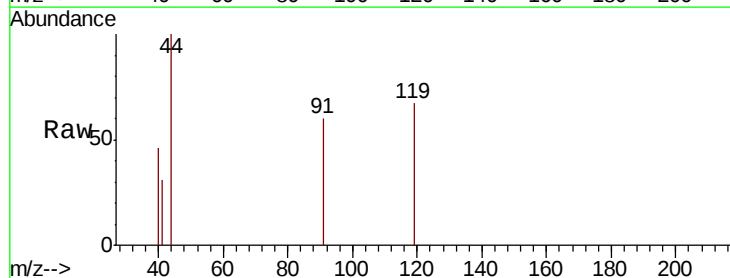
Tgt Ion: 119 Resp: 508

Ion Ratio Lower Upper

119 100

91 56.1 30.9 92.8

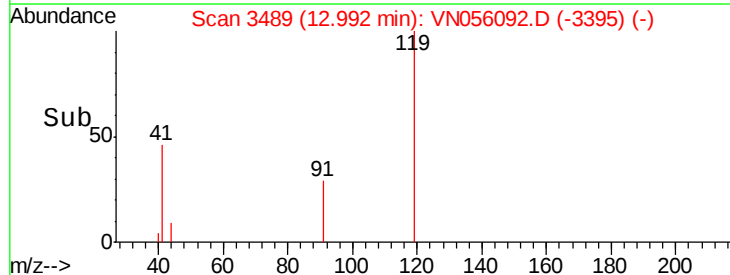
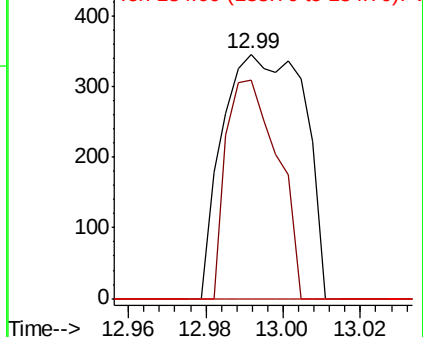
134 0.0 13.3 39.8#

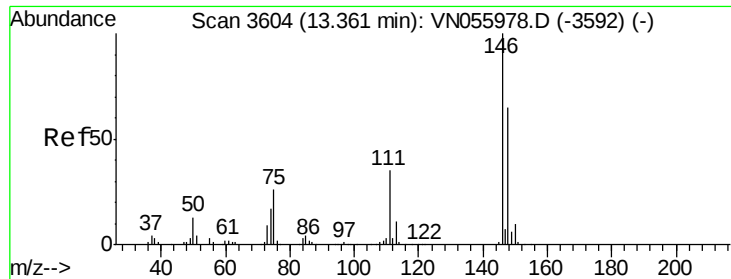


Abundance Ion 119.00 (118.70 to 119.70): VN055978.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN055978.D (-3474) (-)





#88

1,4-Dichlorobenzene

Concen: 0.258 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

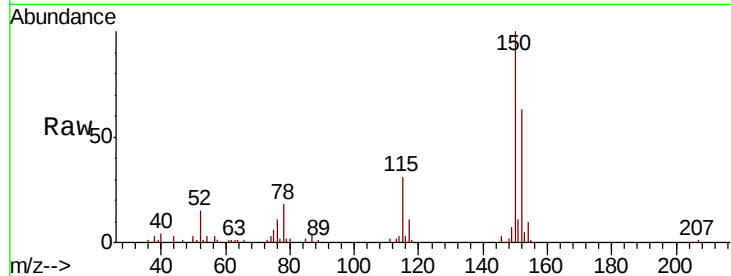
Tot Ion:146 Resp: 1016

Ion Ratio Lower Upper

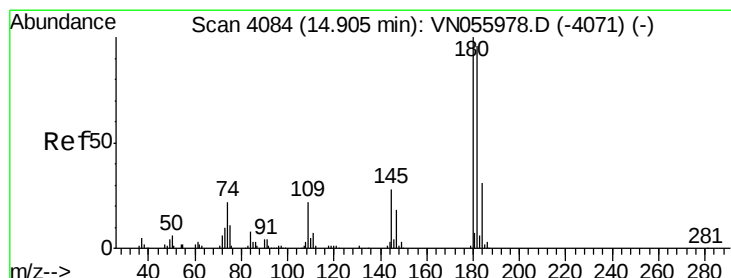
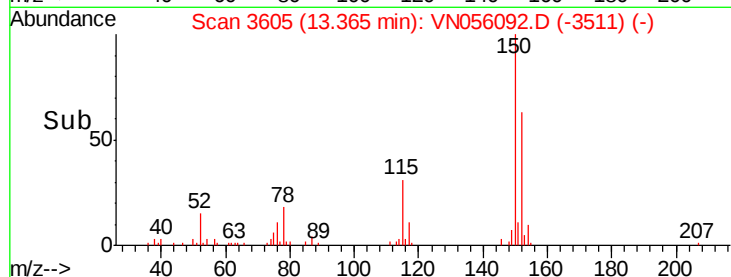
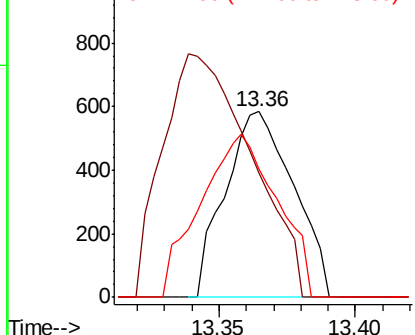
146 100

111 0.0 18.1 54.4#

148 98.6 32.1 96.5#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 4.821 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

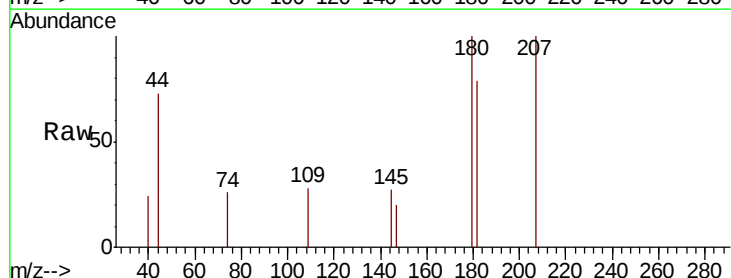
Tgt Ion:180 Resp: 1372

Ion Ratio Lower Upper

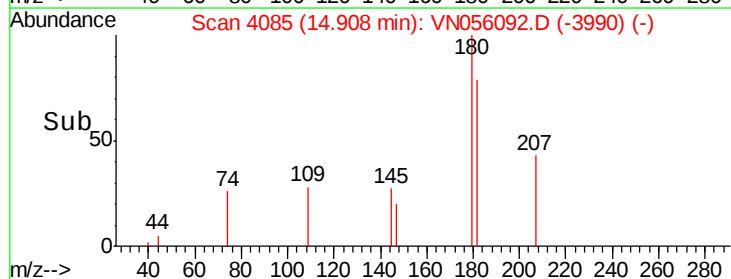
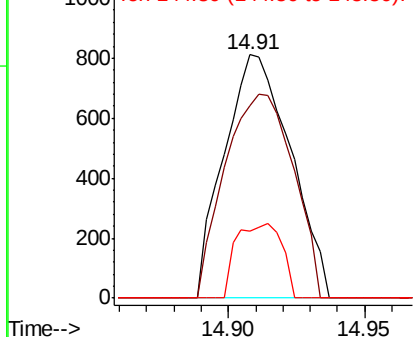
180 100

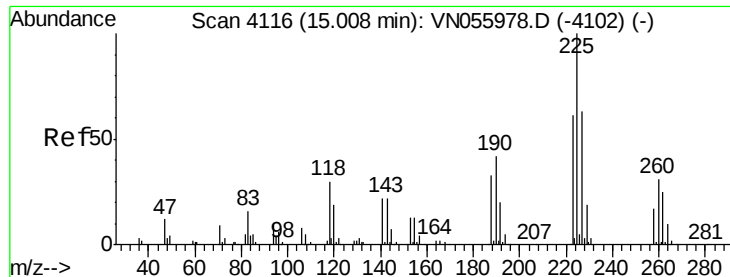
182 86.6 48.3 144.9

145 21.0 14.0 41.9



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

Instrument :

MSVOA_N

ClientSampled :

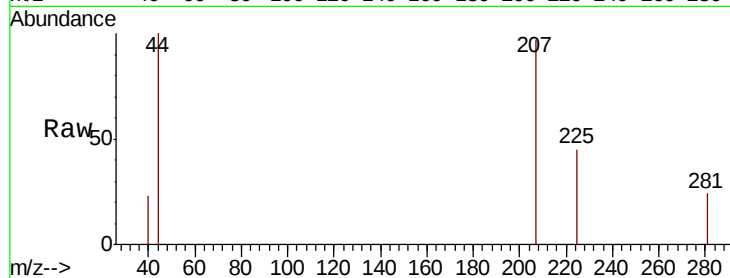
Tot Ion:225 Resp: 391

Ion Ratio Lower Upper

225 100

223 0.0 30.9 92.7#

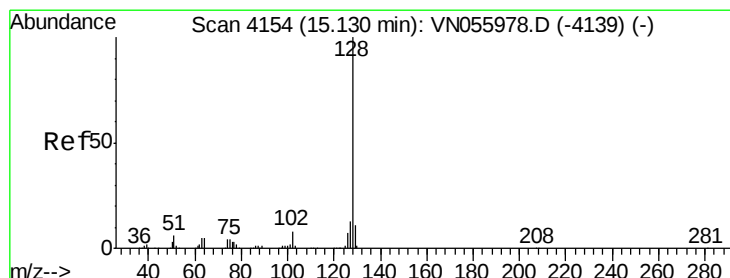
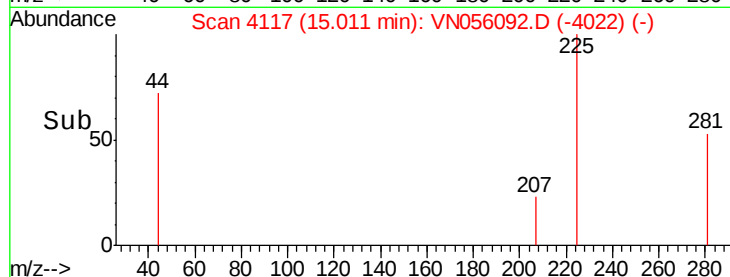
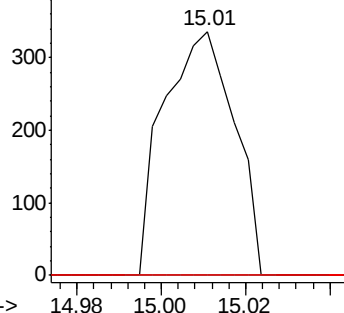
227 0.0 31.6 94.7#



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



#95

Naphthalene

Concen: 4.392 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056092.D

Acq: 7 Jun 2019 11:59

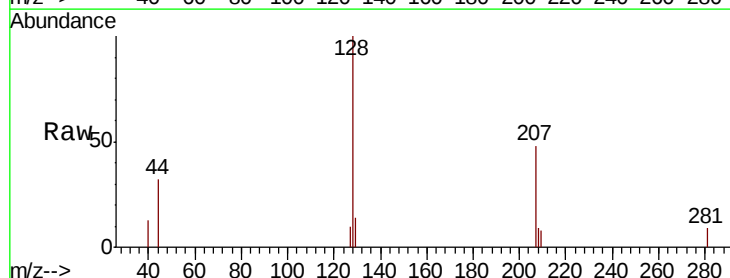
Tgt Ion:128 Resp: 3460

Ion Ratio Lower Upper

128 100

127 6.7 10.3 15.5#

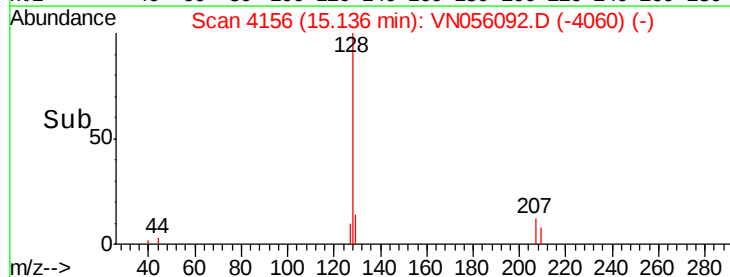
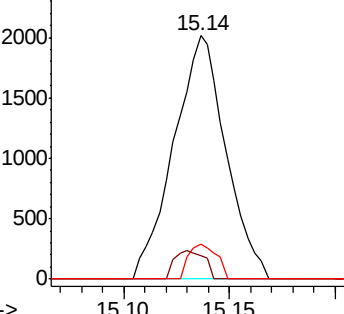
129 7.8 8.7 13.1#

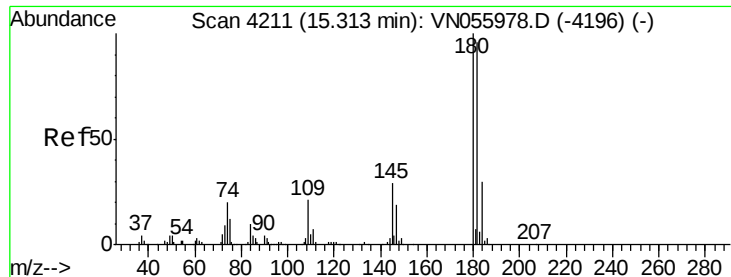


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

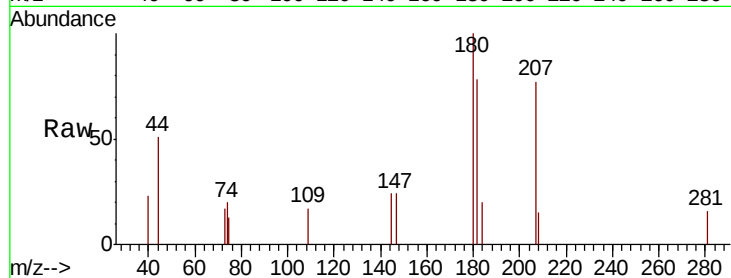




#96
 1,2,3-Trichlorobenzene
 Concen: 3.830 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN056092.D
 Acq: 7 Jun 2019 11:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.0	47.9	143.7
145	20.0	14.9	44.7



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

