

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061319\
 Data File : VN056276.D
 Acq On : 13 Jun 2019 13:08
 Operator : JC/SP
 Sample : K3345-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 01:11:30 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	328192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	535292	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	523568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149389	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	183568	56.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	112.66%		
35) Dibromofluoromethane	7.59	113	168426	51.28	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.56%		
50) Toluene-d8	10.09	98	661396	52.34	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.68%		
62) 4-Bromofluorobenzene	12.40	95	203810	47.42	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.84%		

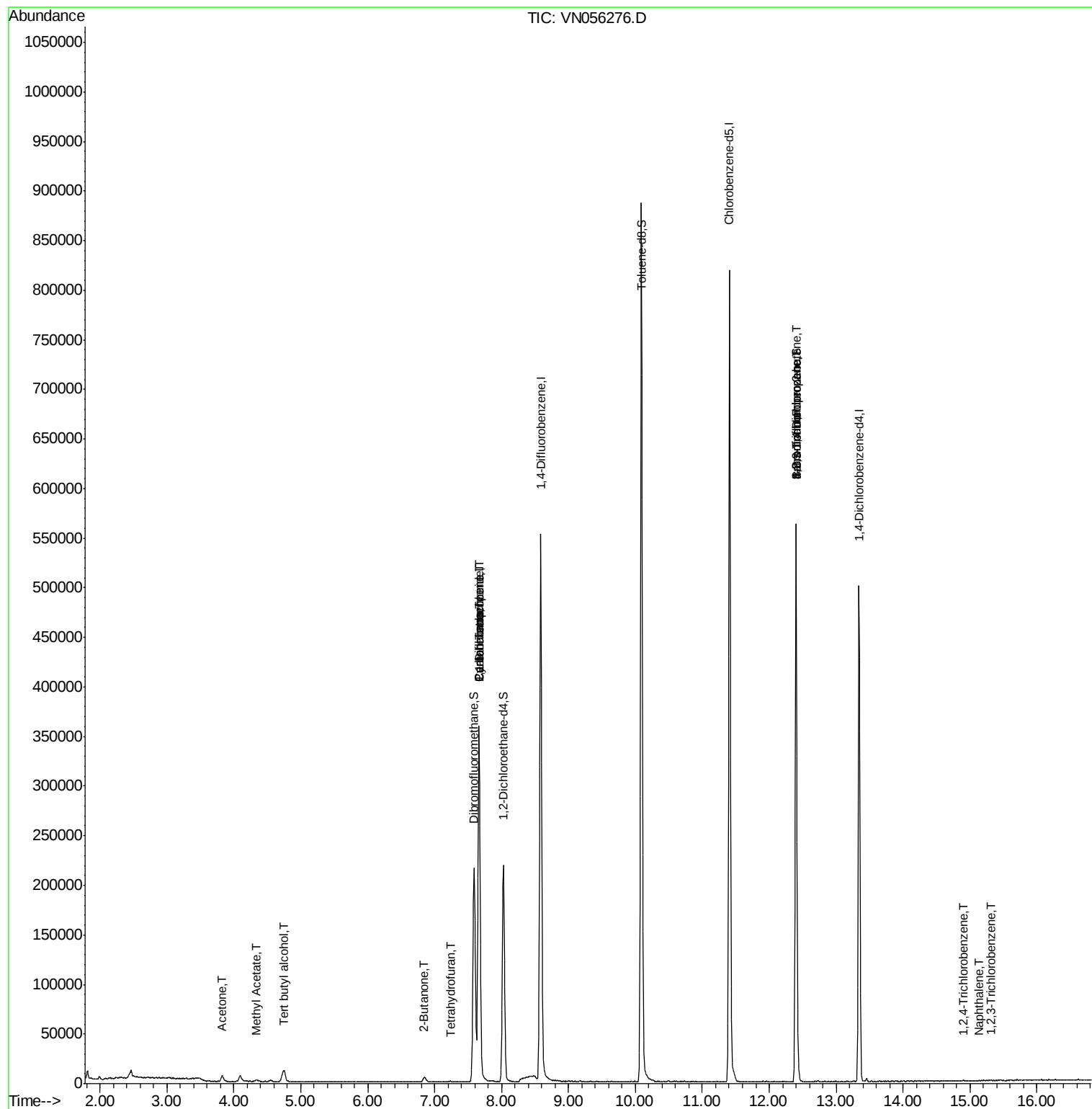
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	11725	20.676	ug/l #	74
16) Acetone	3.82	43	9955	6.387	ug/l	97
18) Methyl Acetate	4.34	43	3923	0.712	ug/l #	74
25) 2-Butanone	6.85	43	675	0.343	ug/l #	47
29) Tetrahydrofuran	7.23	42	992	0.815	ug/l #	32
31) Cyclohexane	7.66	56	4976	0.962	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20745	4.507	ug/l #	47
38) Carbon Tetrachloride	7.66	117	27003	6.363	ug/l #	15
71) Bromoform	12.40	173	744	2.975	ug/l #	1
73) Isopropylbenzene	12.40	105	58	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	94705	34.453	ug/l #	100
79) 2-Chlorotoluene	12.59	91	165	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	94705	114.735	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	271	4.360	ug/l #	53
95) Naphthalene	15.14	128	455	3.910	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	190	3.095	ug/l #	81

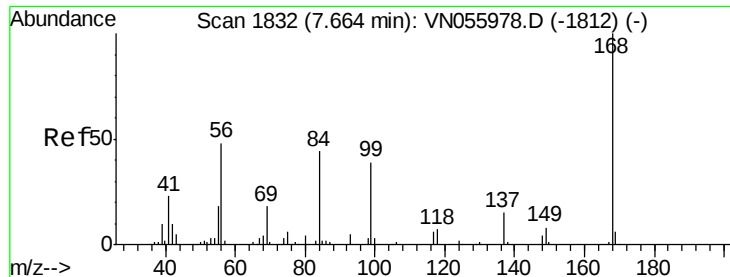
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061319\
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QLast Update : Tue Jun 04 11:02:09 2019
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: VN056276.D

Acq: 13 Jun 2019 13:08

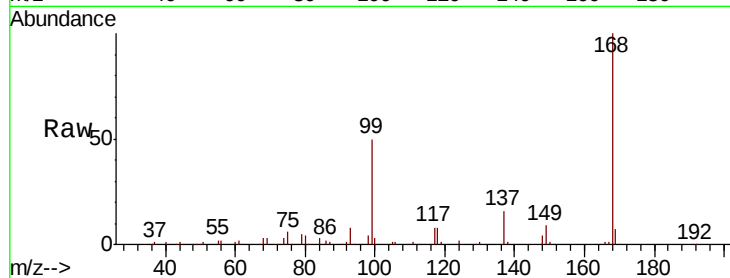
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 328192

Ion Ratio Lower Upper

168 100

99 50.2 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

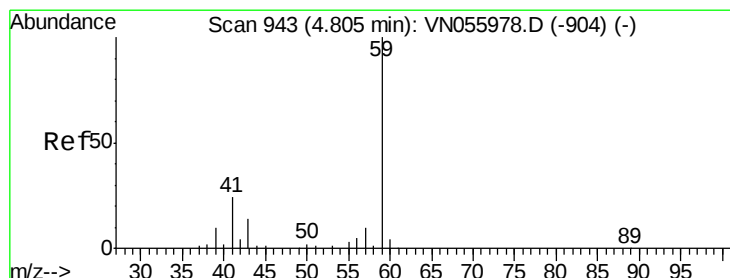
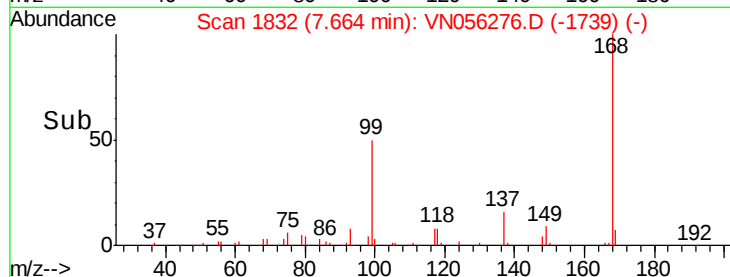
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 20.676 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056276.D

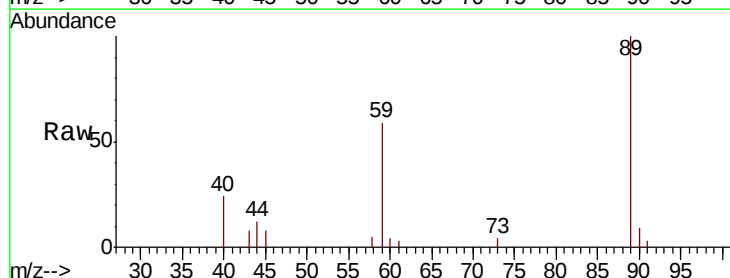
Acq: 13 Jun 2019 13:08

Tgt Ion: 59 Resp: 11725

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

4000

3000

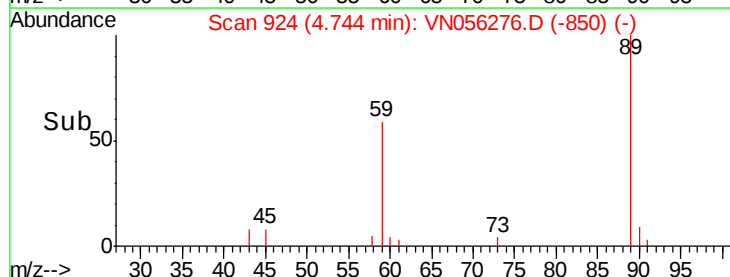
2000

1000

0

Time-->

4.70 4.80





#16

Acetone

Concen: 6.387 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

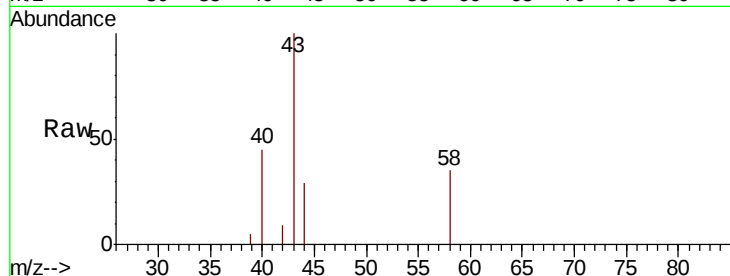
ClientSampled :

Tot Ion: 43 Resp: 9955

Ion Ratio Lower Upper

43 100

58 35.0 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-616) (-)

3.82

4000

3000

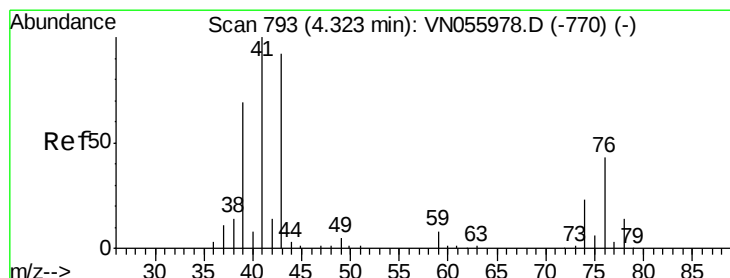
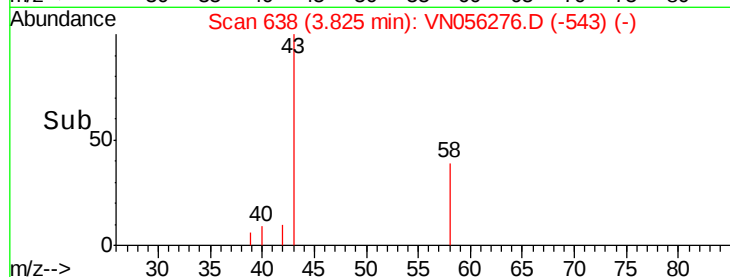
2000

1000

0

Time-->

3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 0.712 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056276.D

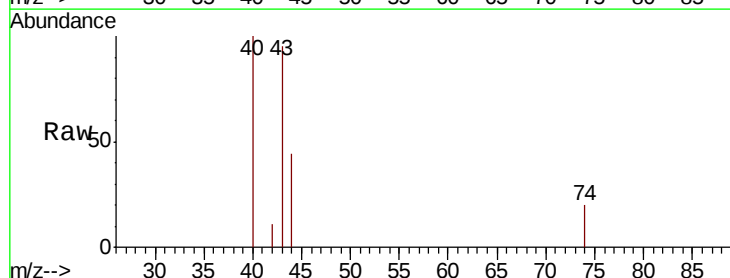
Acq: 13 Jun 2019 13:08

Tgt Ion: 43 Resp: 3923

Ion Ratio Lower Upper

43 100

74 11.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-770) (-)

Ion 74.00 (73.70 to 74.70): VN055978.D (-770) (-)

4.34

1500

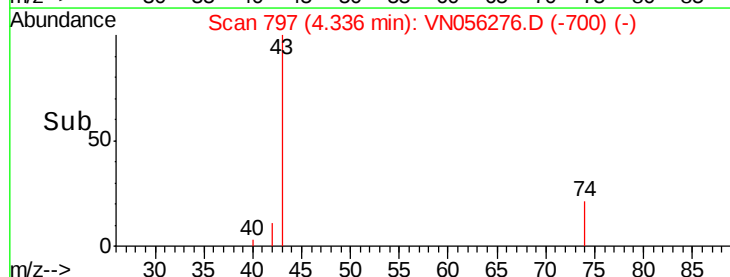
1000

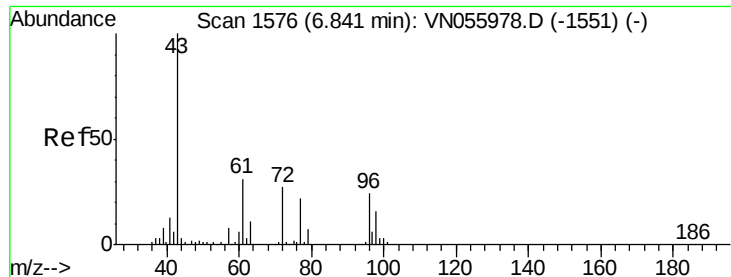
500

0

Time-->

4.25 4.30 4.35 4.40





#25

2-Butanone

Concen: 0.343 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

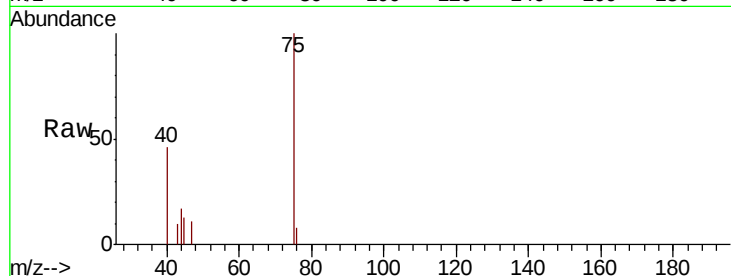
ClientSampled :

Tot Ion: 43 Resp: 675

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

300

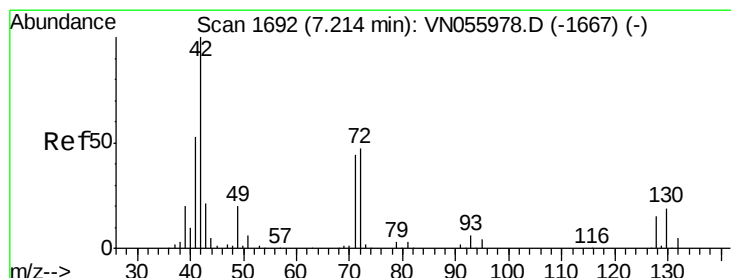
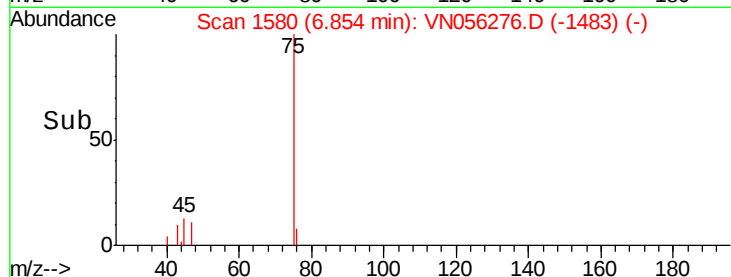
200

100

0

6.80 6.82 6.84 6.86 6.88

Time-->



#29

Tetrahydrofuran

Concen: 0.815 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

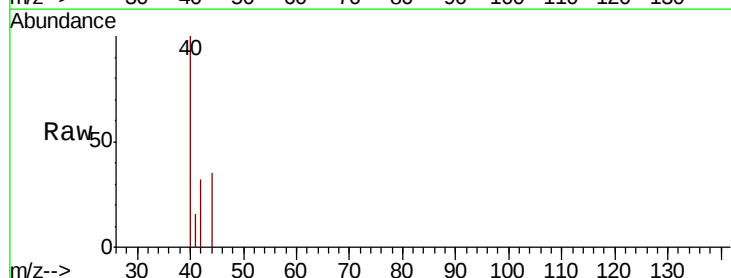
Tgt Ion: 42 Resp: 992

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

600

500

400

300

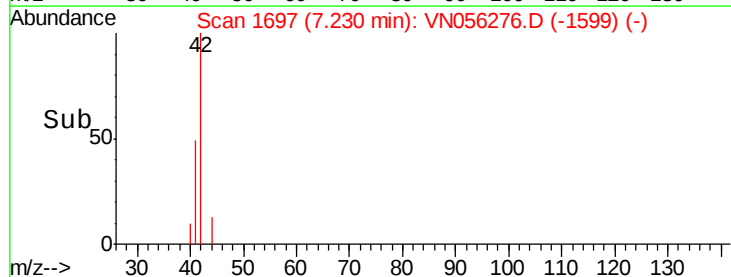
200

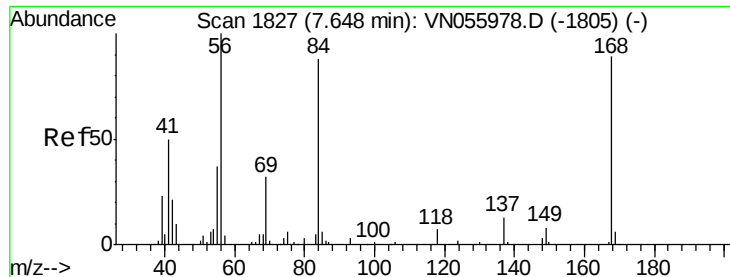
100

0

7.20 7.25

Time-->





#31

Cyclohexane

Concen: 0.962 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :
MSVOA_N
ClientSampled :

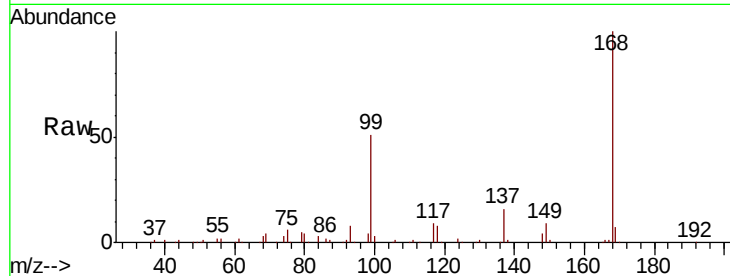
Tot Ion: 56 Resp: 4976

Ion Ratio Lower Upper

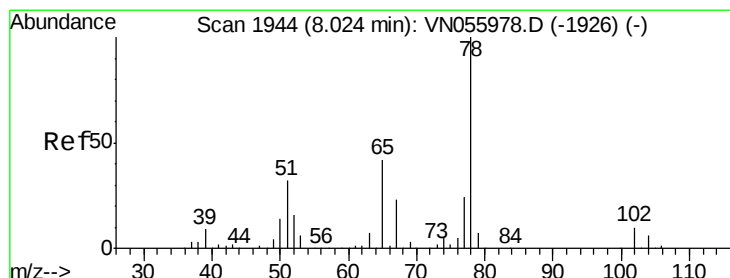
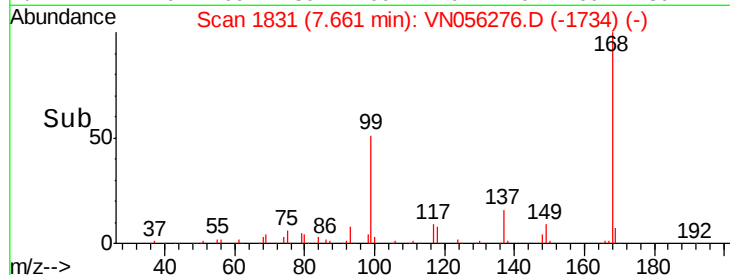
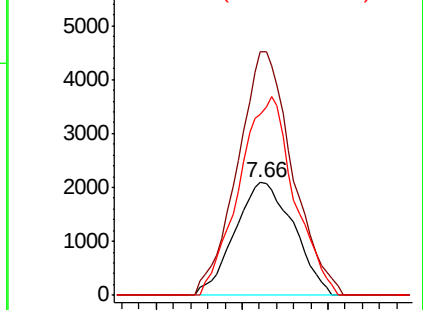
56 100

69 215.3 25.6 38.4#

84 159.8 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 56.332 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056276.D

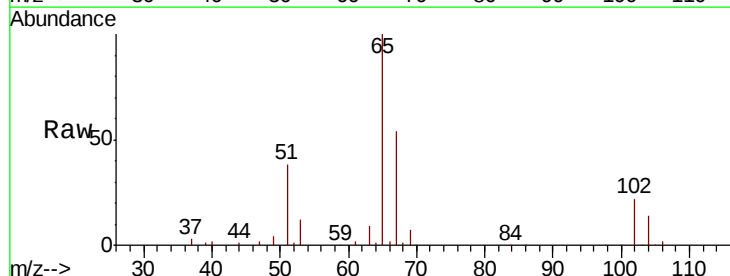
Acq: 13 Jun 2019 13:08

Tgt Ion: 65 Resp: 183568

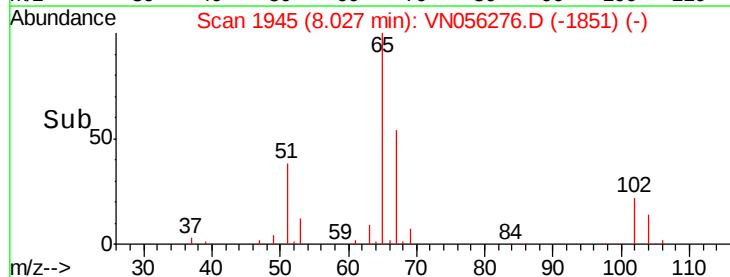
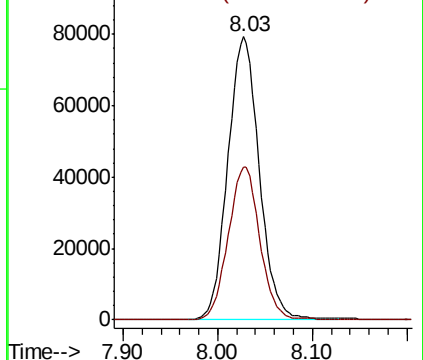
Ion Ratio Lower Upper

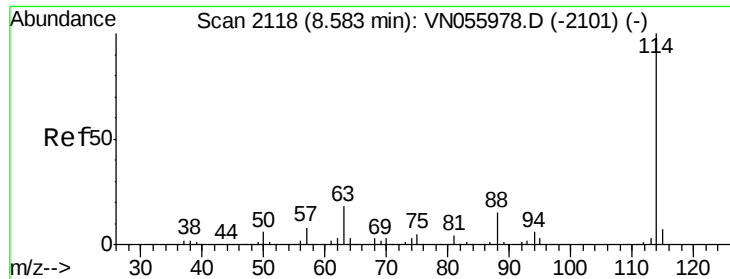
65 100

67 54.1 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

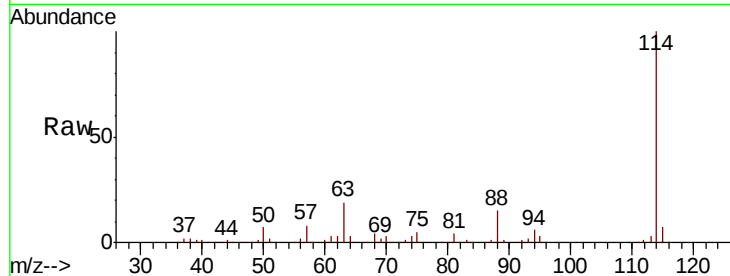




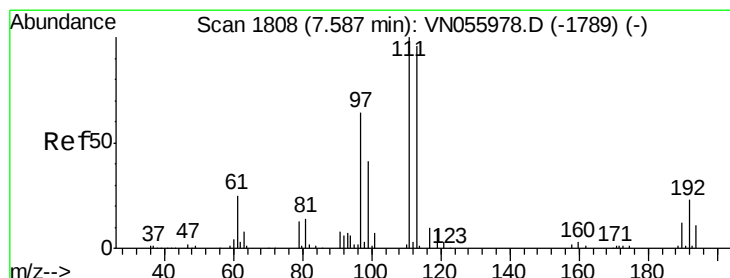
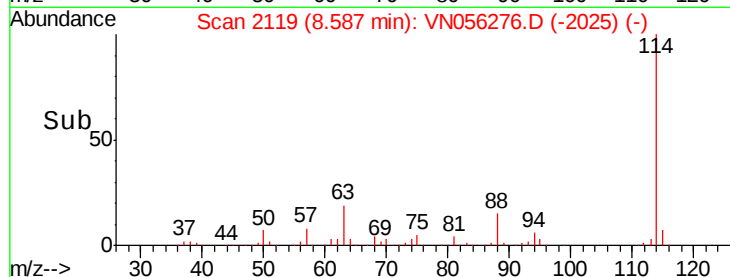
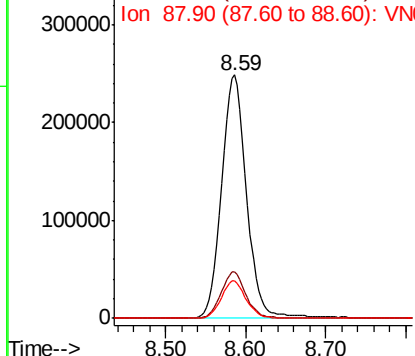
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056276.D
 Acq: 13 Jun 2019 13:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 535292
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.2
 88 15.3 0.0 31.0

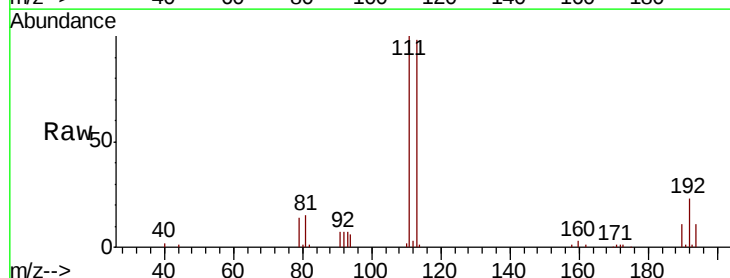


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

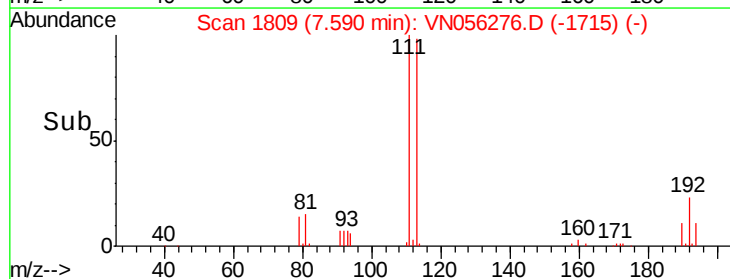
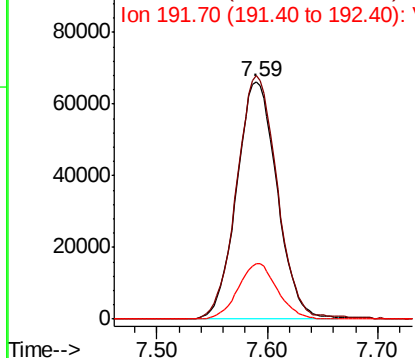


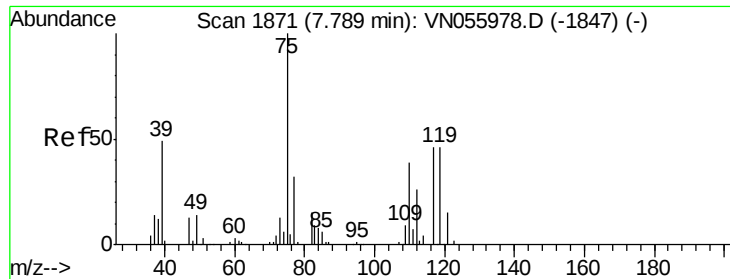
#35
 Dibromofluoromethane
 Concen: 51.284 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056276.D
 Acq: 13 Jun 2019 13:08

Tgt Ion:113 Resp: 168426
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.9 122.9
 192 22.6 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

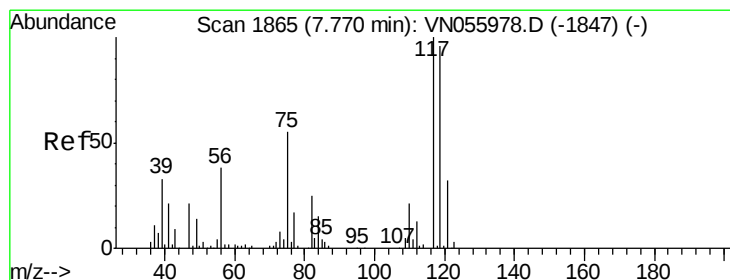
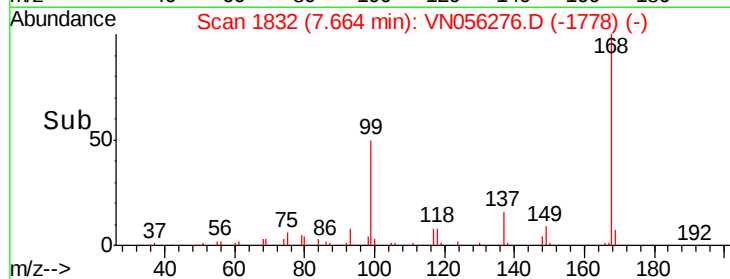
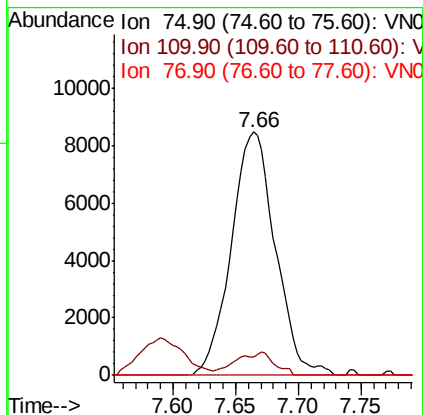
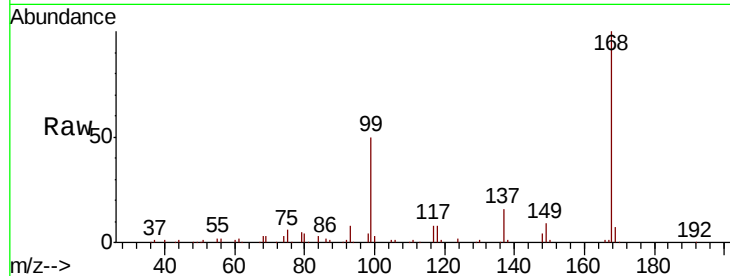




#36
 1,1-Dichloropropene
 Concen: 4.507 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056276.D
 Acq: 13 Jun 2019 13:08

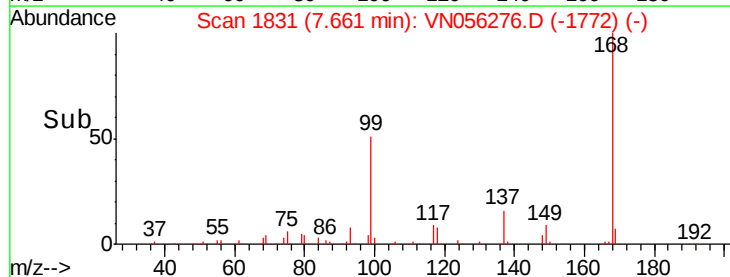
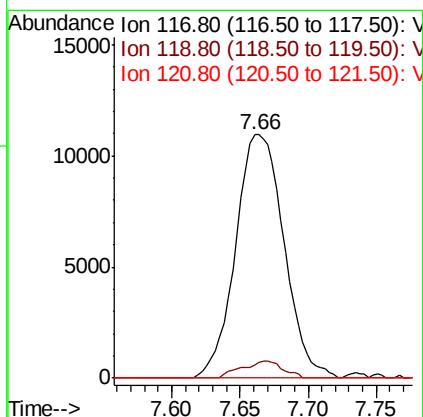
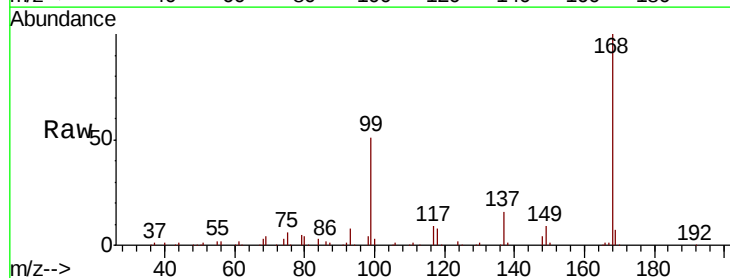
Instrument :
 MSVOA_N
 ClientSampled :

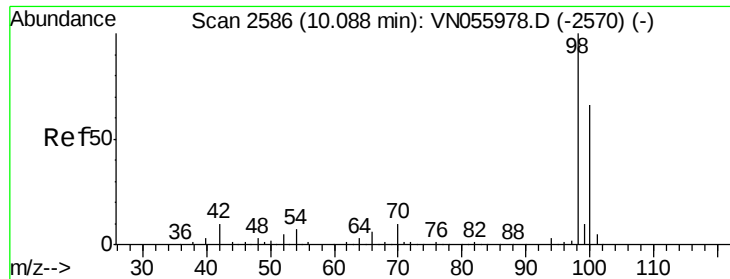
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.363 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN056276.D
 Acq: 13 Jun 2019 13:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	79.0	118.6#
121	0.0	24.7	37.1#





#50

Toluene-d8

Concen: 52.336 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

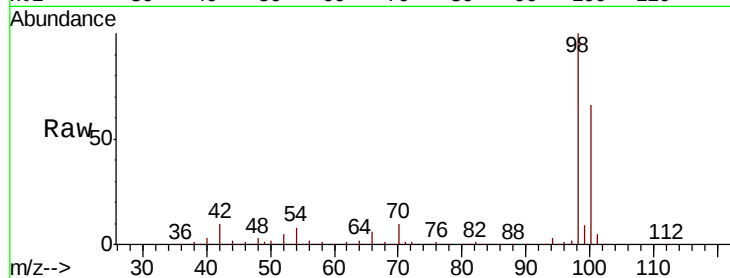
ClientSampled :

Tot Ion: 98 Resp: 661396

Ion Ratio Lower Upper

98 100

100 65.0 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

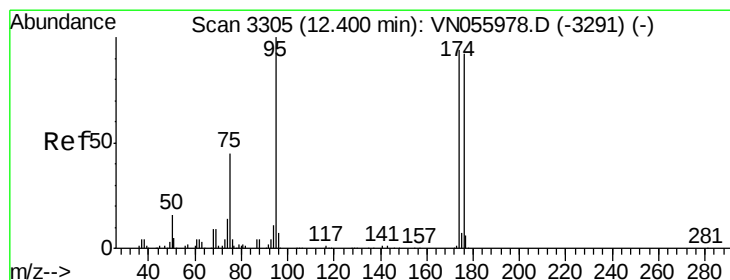
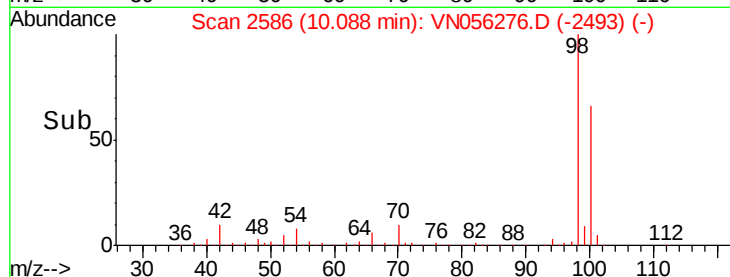
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.423 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

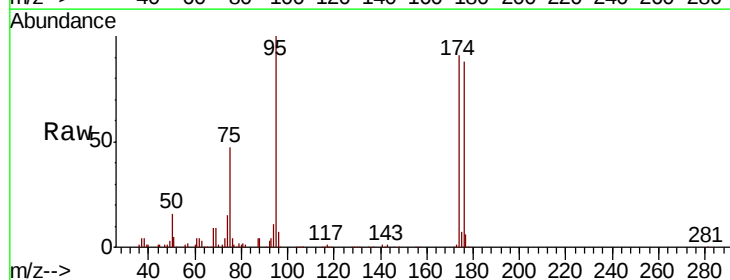
Tgt Ion: 95 Resp: 203810

Ion Ratio Lower Upper

95 100

174 92.2 0.0 191.0

176 90.7 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

12.40

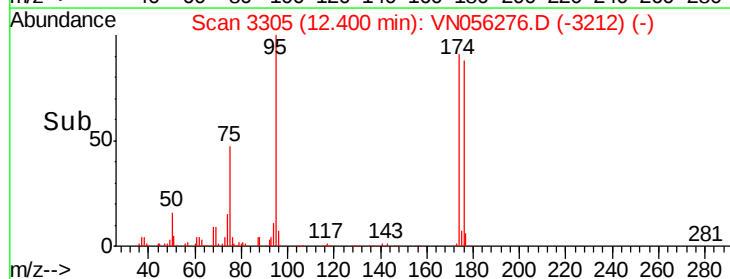
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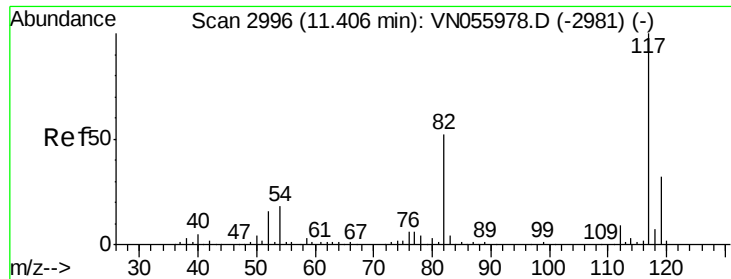
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

ClientSampled :

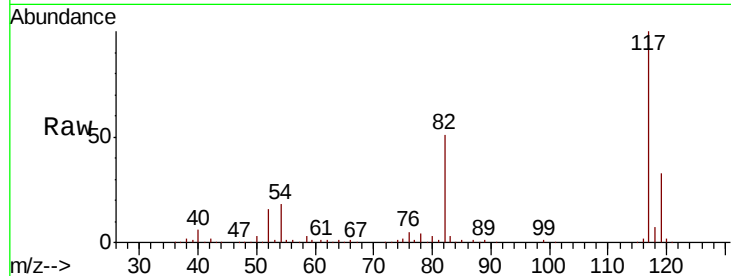
Tot Ion:117 Resp: 523568

Ion Ratio Lower Upper

117 100

82 51.5 41.8 62.8

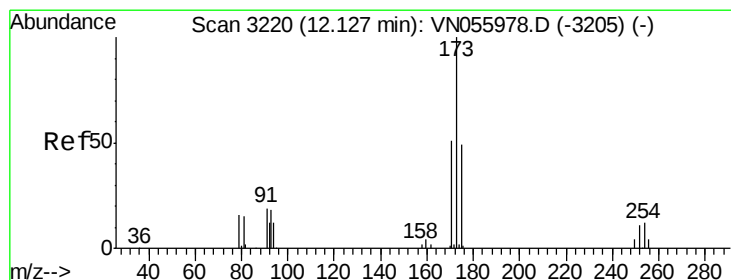
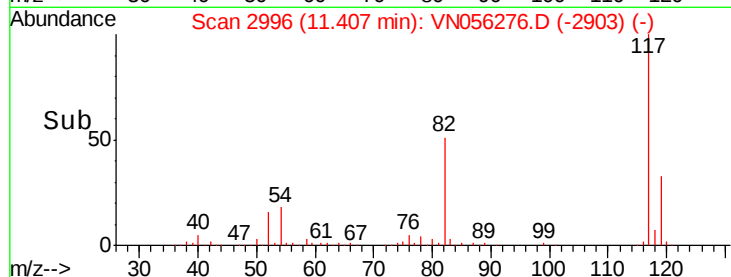
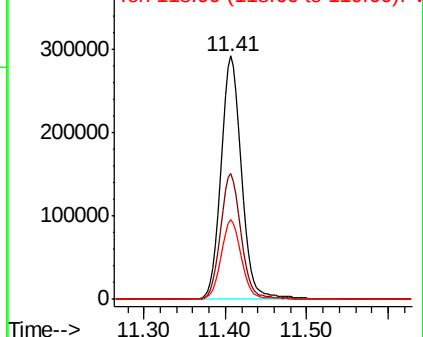
119 32.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 2.975 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

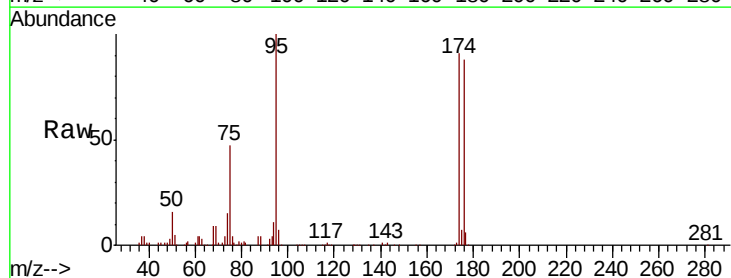
Tgt Ion:173 Resp: 744

Ion Ratio Lower Upper

173 100

175 1621.5 24.3 72.8#

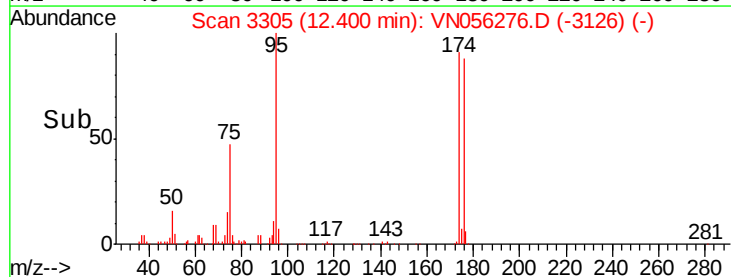
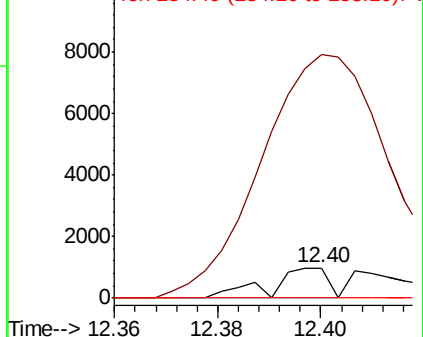
254 0.0 0.0 0.0

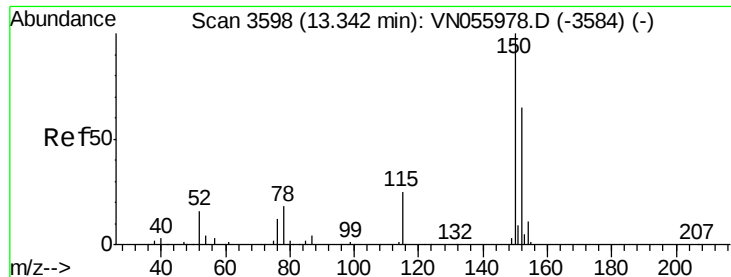


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

ClientSampleId :

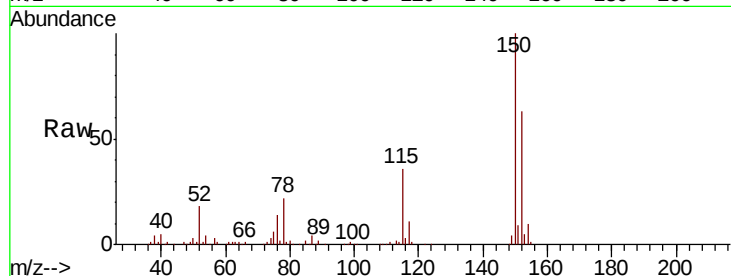
Tot Ion:152 Resp: 149389

Ion Ratio Lower Upper

152 100

115 56.0 27.0 81.0

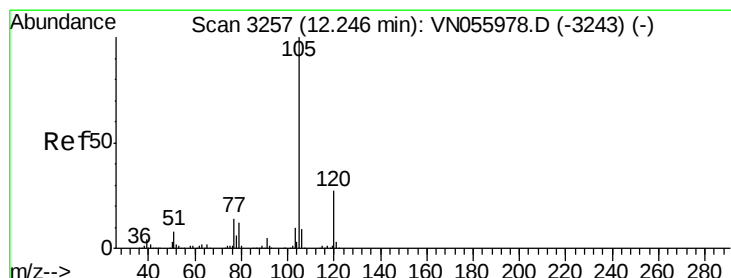
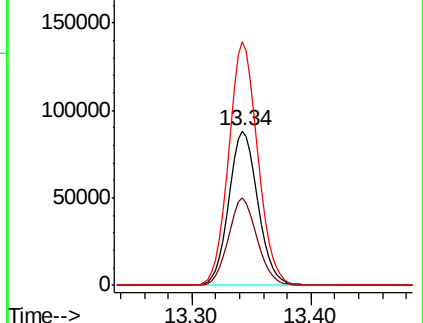
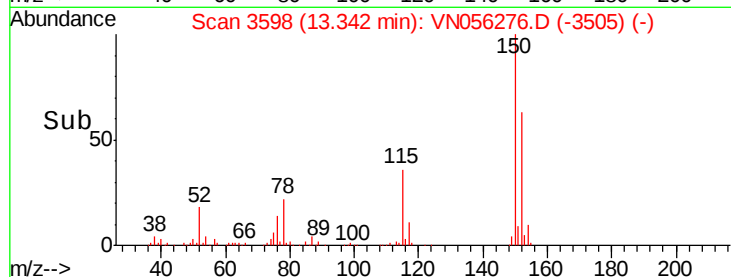
150 157.6 0.0 343.2



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: 12.40 min Scan# 3305

Delta R.T. 0.16 min

Lab File: VN056276.D

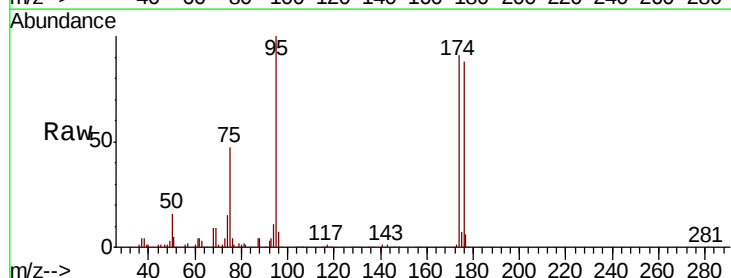
Acq: 13 Jun 2019 13:08

Tgt Ion:105 Resp: 58

Ion Ratio Lower Upper

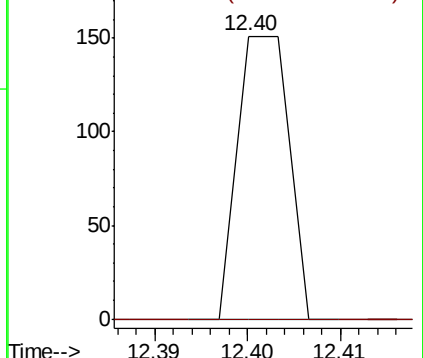
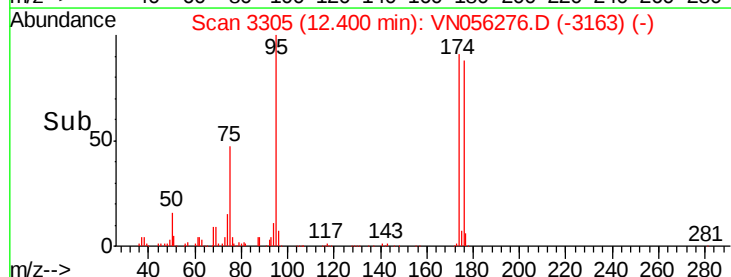
105 100

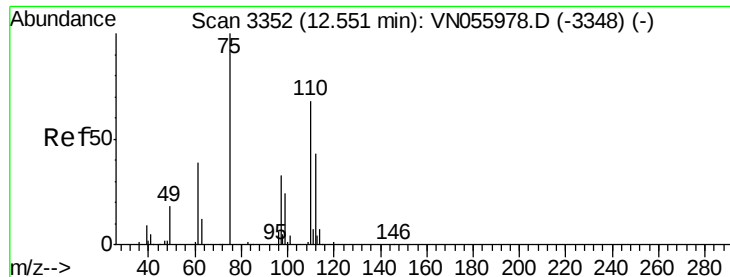
120 0.0 13.6 40.7#



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: 34.453 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

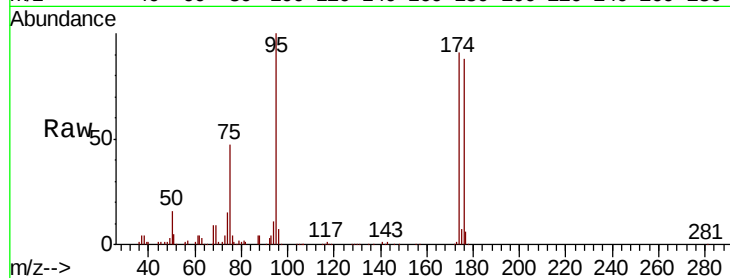
ClientSampled :

Tot Ion: 75 Resp: 94705

Ion Ratio Lower Upper

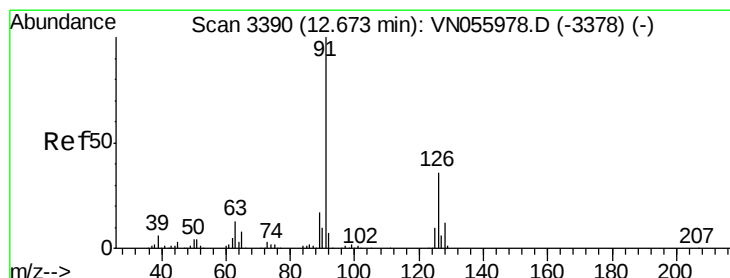
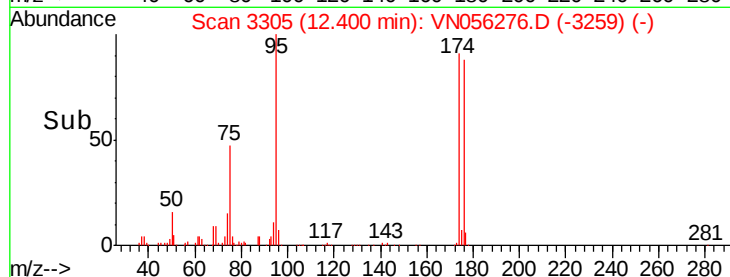
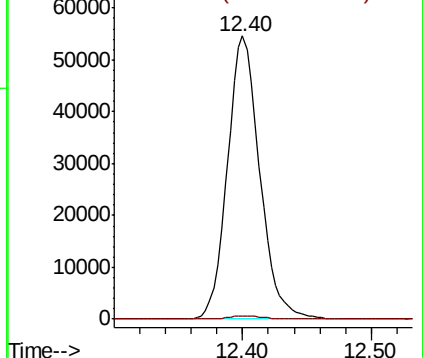
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056276.D

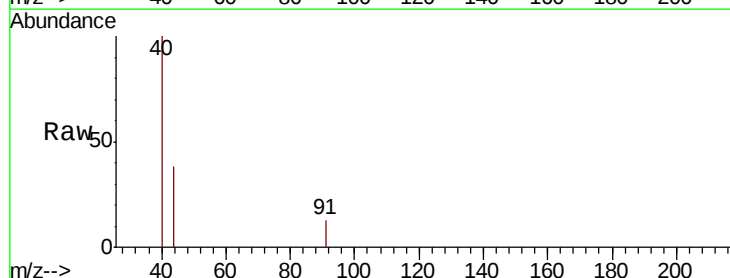
Acq: 13 Jun 2019 13:08

Tgt Ion: 91 Resp: 165

Ion Ratio Lower Upper

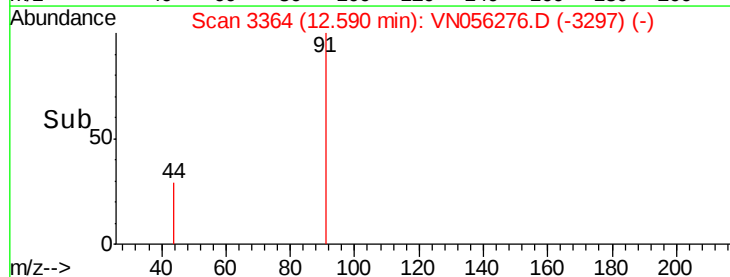
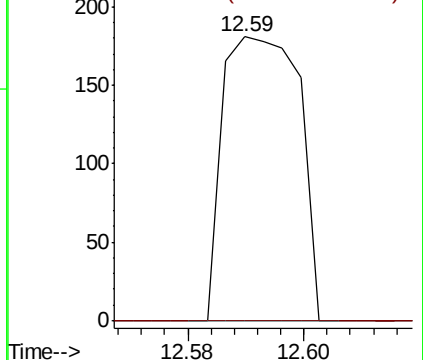
91 100

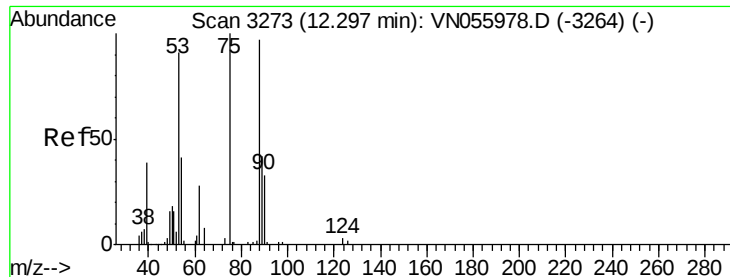
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 114.735 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

ClientSampleId :

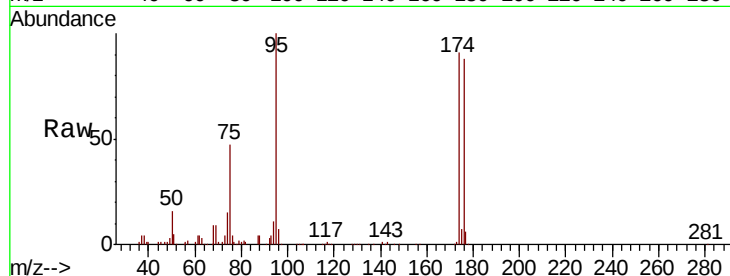
Tot Ion: 75 Resp: 94705

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

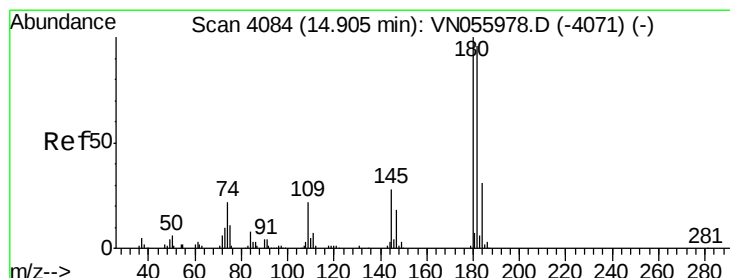
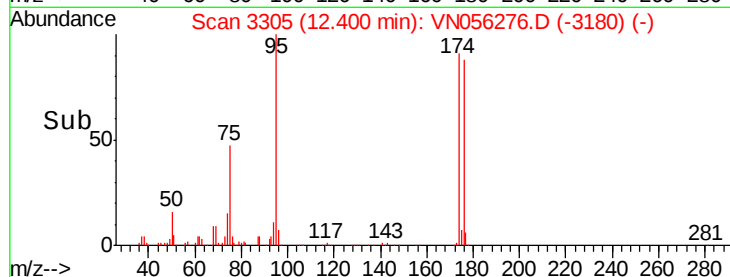
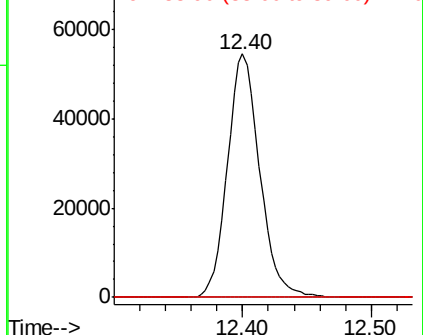
89 0.0 36.9 55.3#



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) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.360 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

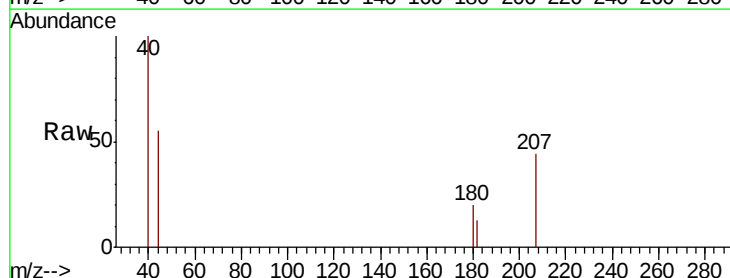
Tgt Ion: 180 Resp: 271

Ion Ratio Lower Upper

180 100

182 52.8 48.3 144.9

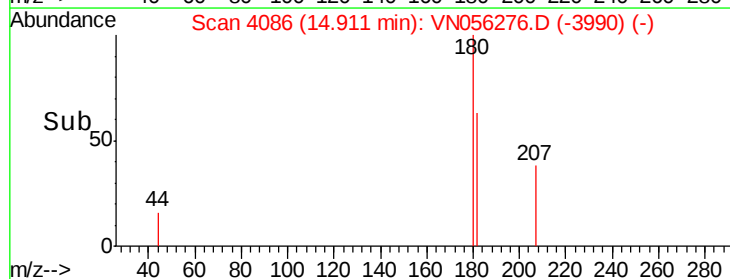
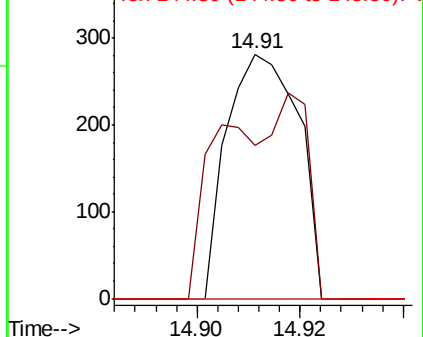
145 0.0 14.0 41.9#

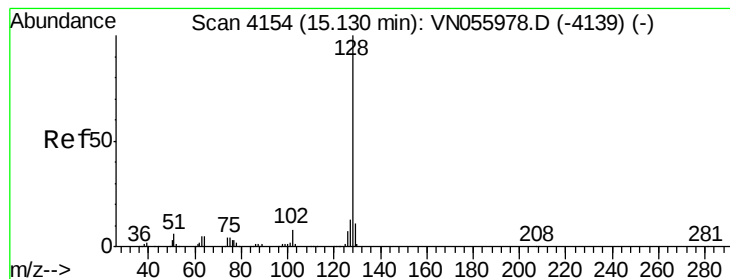


Abundance Ion 179.80 (179.50 to 180.50): VN055978.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN055978.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN055978.D (-4071) (-)





#95

Naphthalene

Concen: 3.910 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

Instrument :

MSVOA_N

ClientSampled :

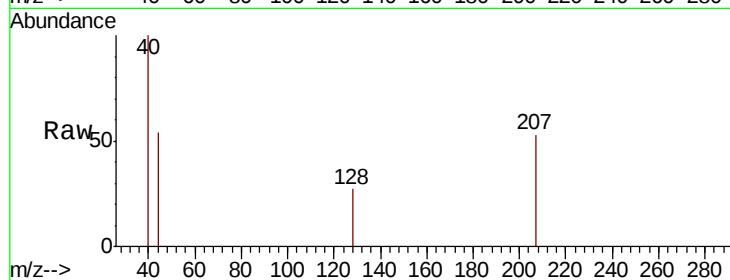
Tot Ion:128 Resp: 455

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

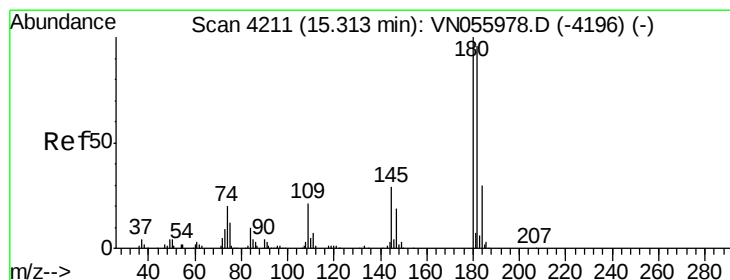
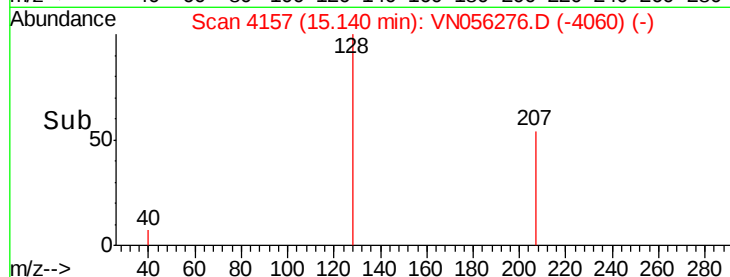
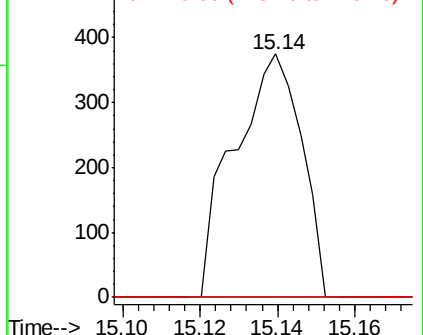
129 0.0 8.7 13.1#



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: 3.095 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN056276.D

Acq: 13 Jun 2019 13:08

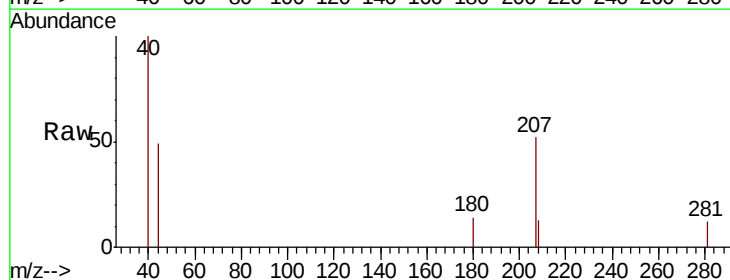
Tgt Ion:180 Resp: 190

Ion Ratio Lower Upper

180 100

182 103.2 47.9 143.7

145 0.0 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

