

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061319\
 Data File : VN056279.D
 Acq On : 13 Jun 2019 14:20
 Operator : JC/SP
 Sample : K3331-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 01:12:12 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	7.67	168	347293	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	575014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	558237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	161778	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	195117	56.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.16%	
35) Dibromofluoromethane	7.59	113	176638	50.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.14%	
50) Toluene-d8	10.09	98	704109	51.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	12.40	95	221752	48.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.06%	

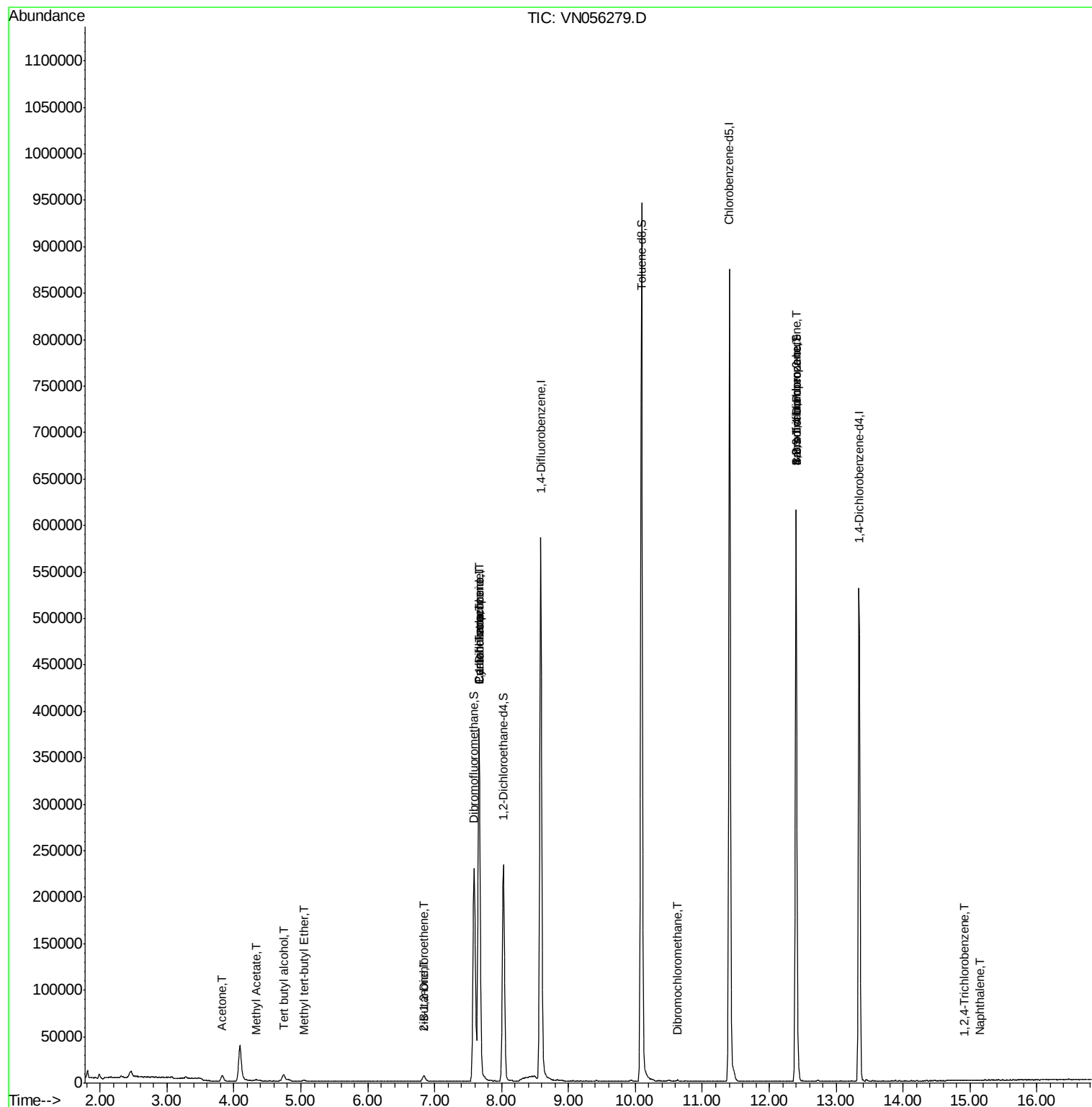
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	7299	12.163	ug/l #	74
16) Acetone	3.82	43	10660	6.464	ug/l	98
18) Methyl Acetate	4.33	43	2836	0.301	ug/l	92
19) Methyl tert-butyl Ether	5.05	73	1872	0.201	ug/l #	53
25) 2-Butanone	6.85	43	743	0.357	ug/l #	47
27) cis-1,2-Dichloroethene	6.84	96	2705	0.737	ug/l	94
31) Cyclohexane	7.66	56	5430	0.992	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22821	4.616	ug/l #	48
38) Carbon Tetrachloride	7.66	117	29587	6.491	ug/l #	15
60) Dibromochloromethane	10.63	129	156	2.488	ug/l #	11
71) Bromoform	12.40	173	1746	3.255	ug/l #	1
73) Isopropylbenzene	12.40	105	89	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	104292	35.035	ug/l #	100
79) 2-Chlorotoluene	12.40	91	647	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	104292	116.674	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.90	180	32	4.280	ug/l #	12
95) Naphthalene	15.15	128	74	3.860	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056279.D

Acq: 13 Jun 2019 14:20

Instrument :

MSVOA_N

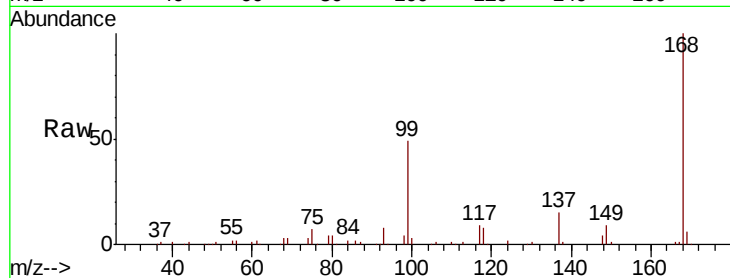
ClientSampleId :

Tot Ion:168 Resp: 347293

Ion Ratio Lower Upper

168 100

99 49.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.67

150000

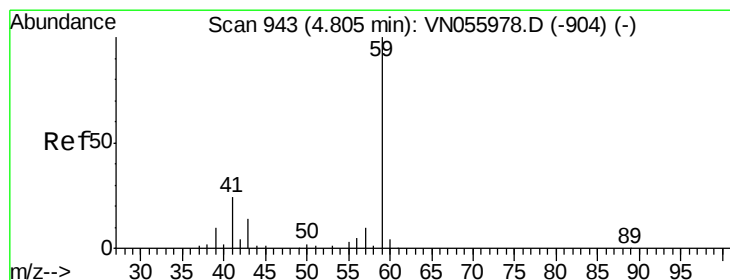
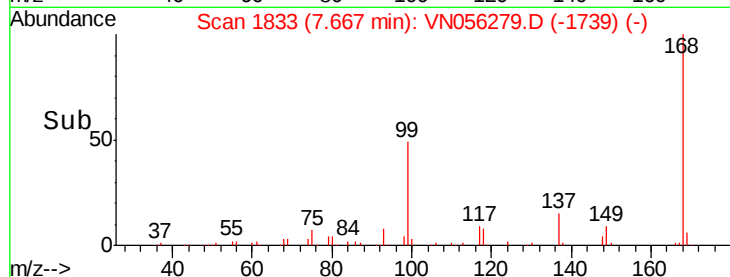
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 12.163 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056279.D

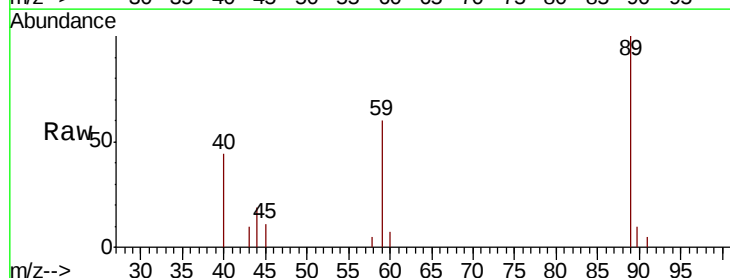
Acq: 13 Jun 2019 14:20

Tgt Ion: 59 Resp: 7299

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.74

2000

1500

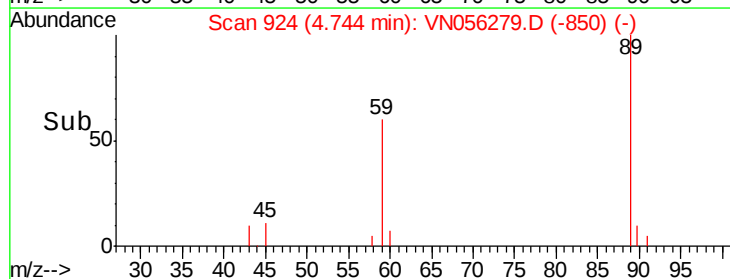
1000

500

0

4.65 4.70 4.75 4.80

Time-->





#16

Acetone

Concen: 6.464 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056279.D

Acq: 13 Jun 2019 14:20

Instrument :

MSVOA_N

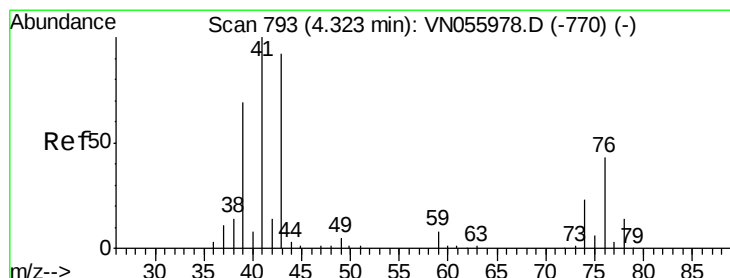
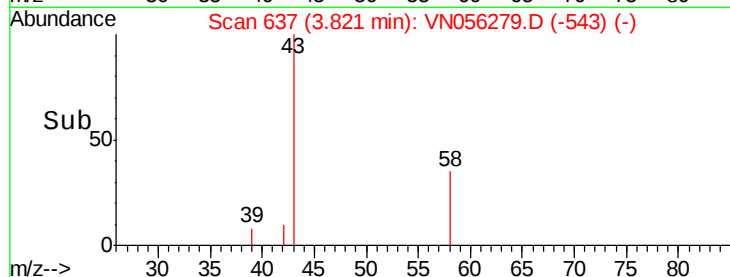
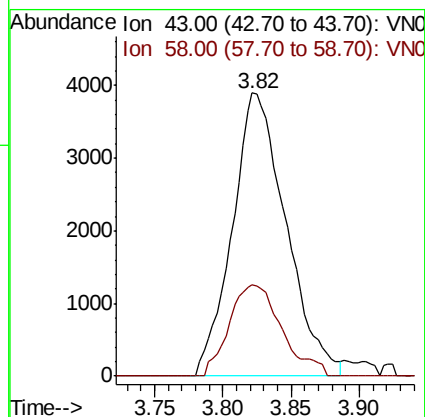
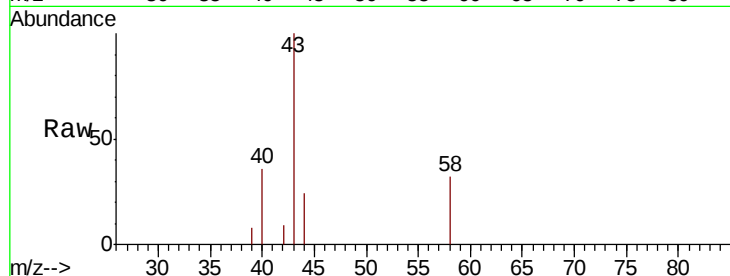
ClientSampled :

Tot Ion: 43 Resp: 10660

Ion Ratio Lower Upper

43 100

58 32.1 26.6 39.8



#18

Methyl Acetate

Concen: 0.301 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056279.D

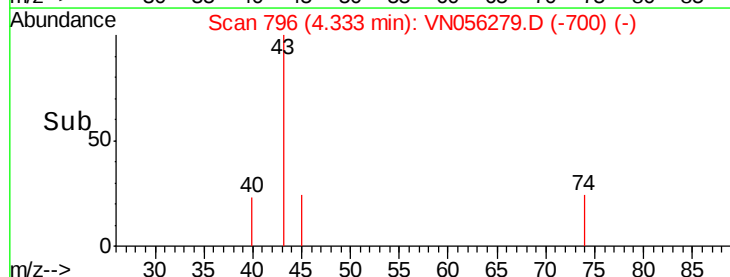
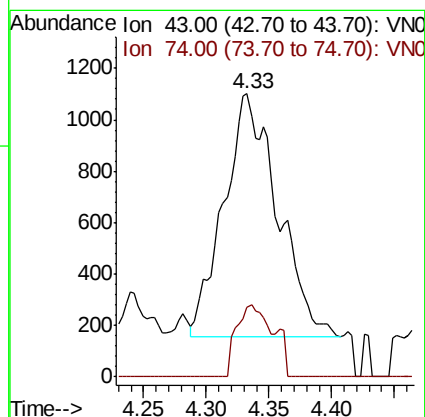
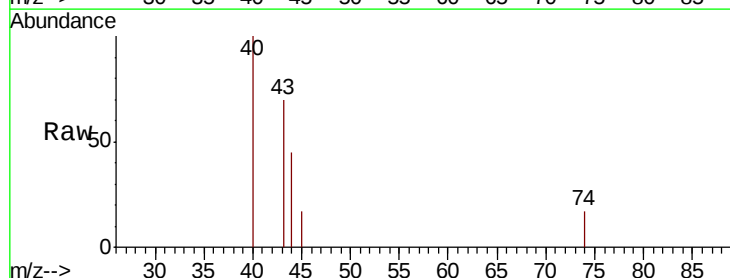
Acq: 13 Jun 2019 14:20

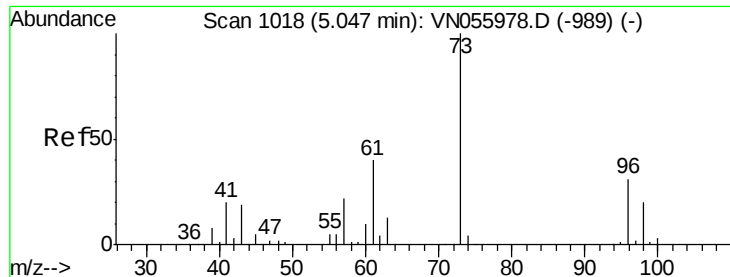
Tgt Ion: 43 Resp: 2836

Ion Ratio Lower Upper

43 100

74 20.2 19.3 28.9

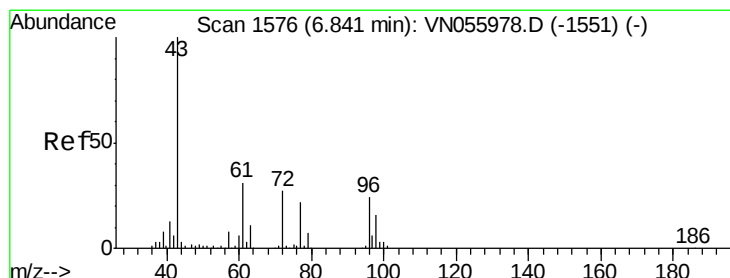
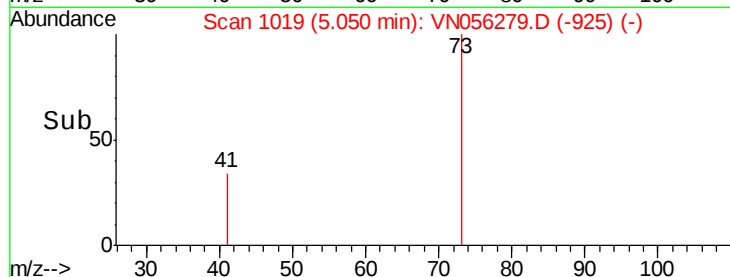
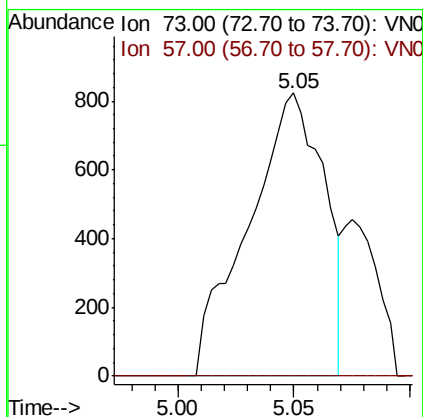
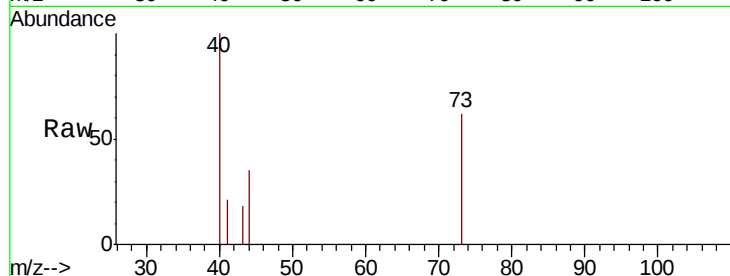




#19
Methvl tert-butvl Ether
Concen: 0.201 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

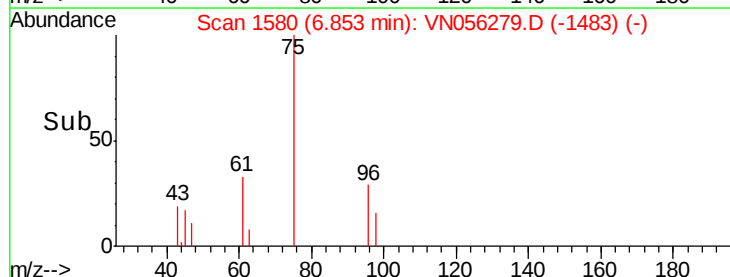
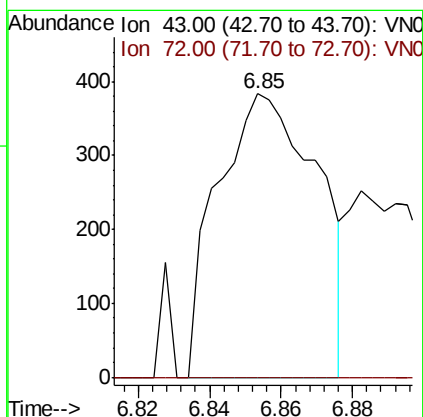
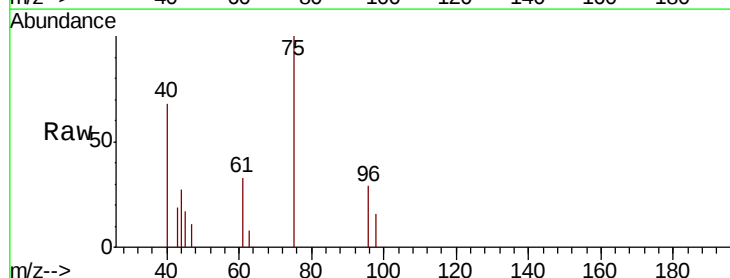
Instrument :
MSVOA_N
ClientSampled :

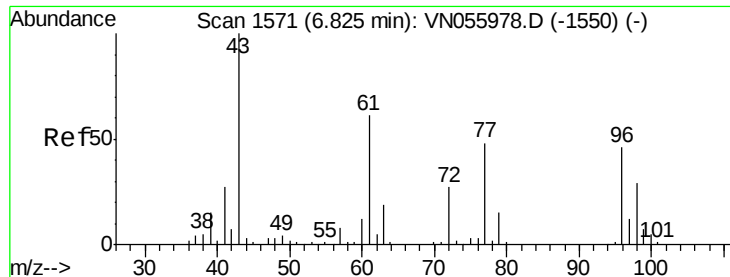
Tot Ion: 73 Resp: 1872
Ion Ratio Lower Upper
73 100
57 0.0 17.8 26.8#



#25
2-Butanone
Concen: 0.357 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

Tgt Ion: 43 Resp: 743
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#





#27

cis-1,2-Dichloroethene

Concen: 0.737 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN056279.D

Acq: 13 Jun 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

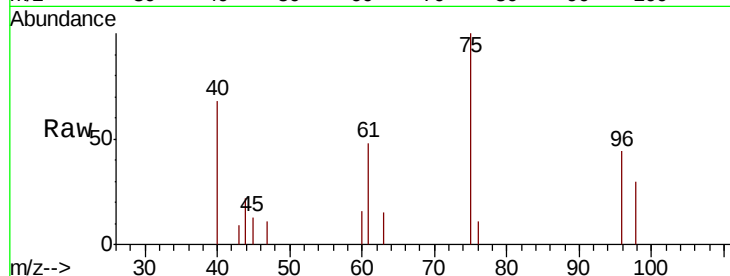
Tot Ion: 96 Resp: 2705

Ion Ratio Lower Upper

96 100

61 127.0 0.0 275.8

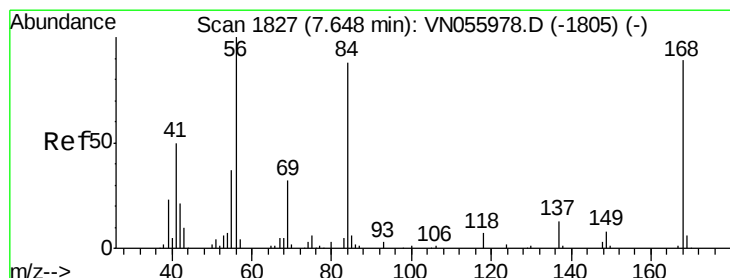
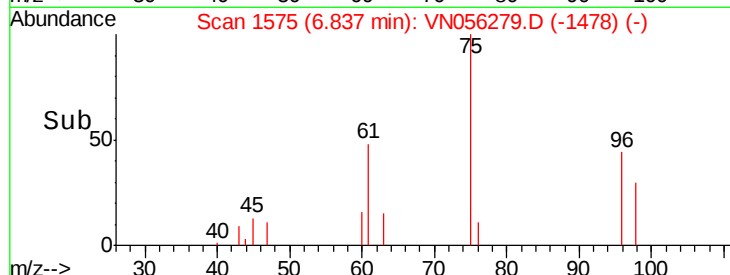
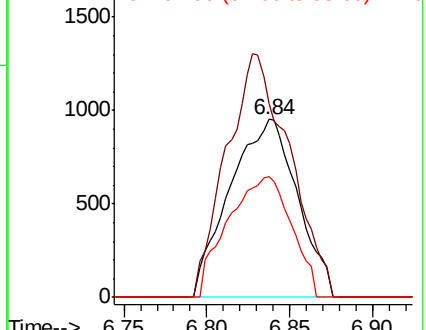
98 63.5 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.992 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056279.D

Acq: 13 Jun 2019 14:20

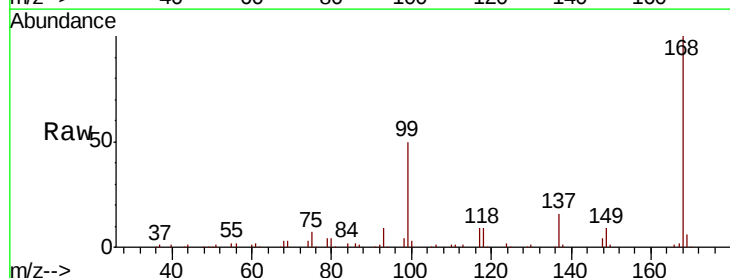
Tgt Ion: 56 Resp: 5430

Ion Ratio Lower Upper

56 100

69 174.7 25.6 38.4#

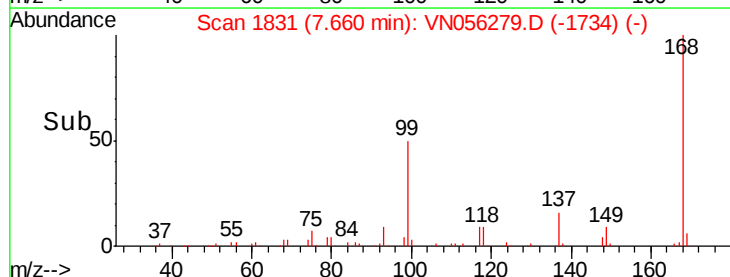
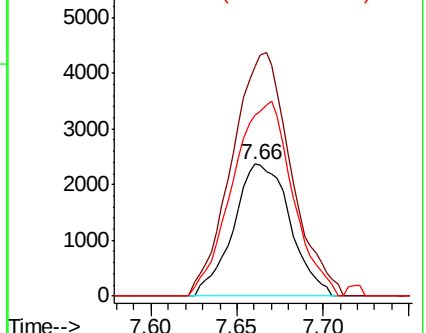
84 137.4 67.4 101.0#

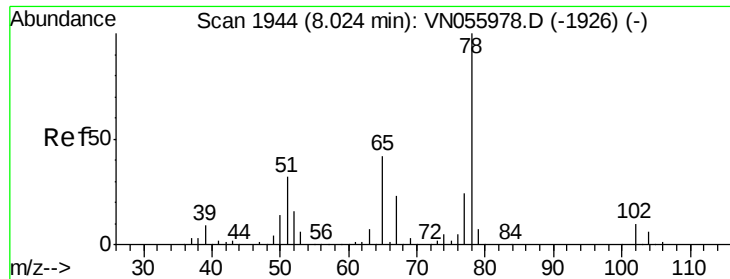


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

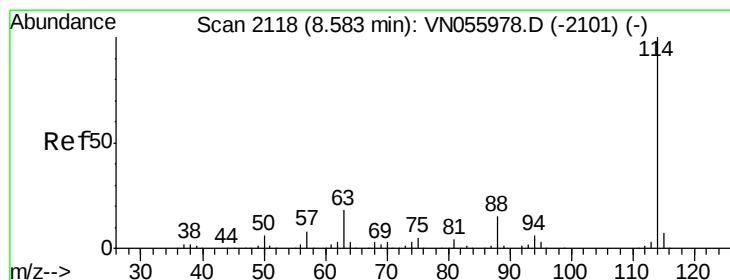
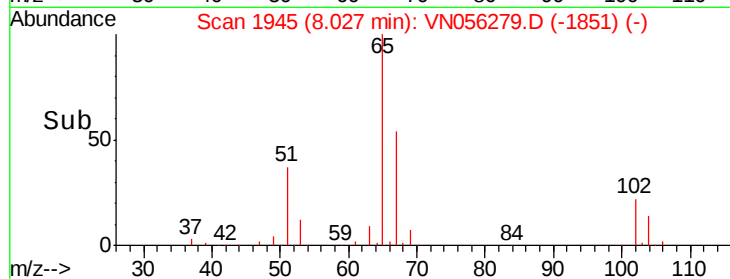
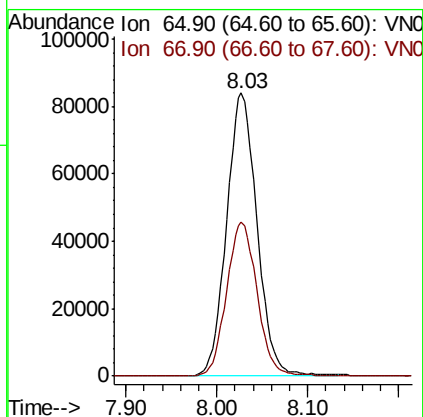
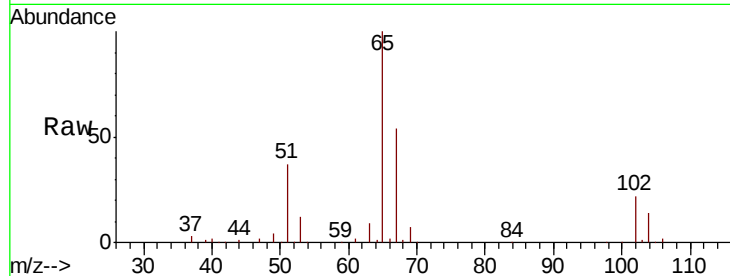




#33
 1,2-Dichloroethane-d4
 Concen: 56.583 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056279.D
 Acq: 13 Jun 2019 14:20

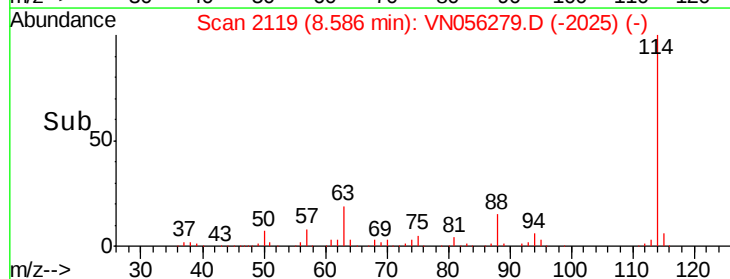
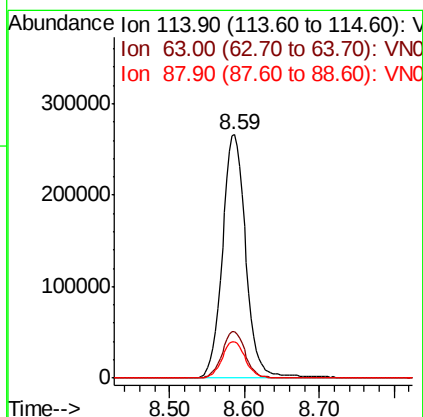
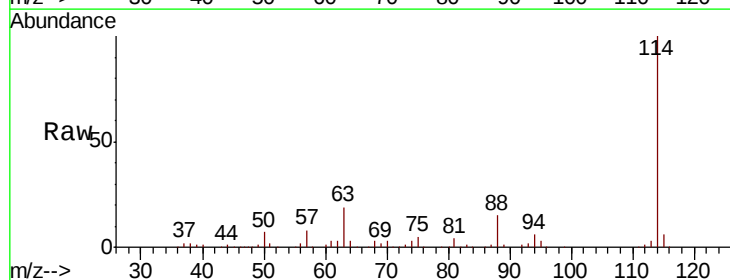
Instrument :
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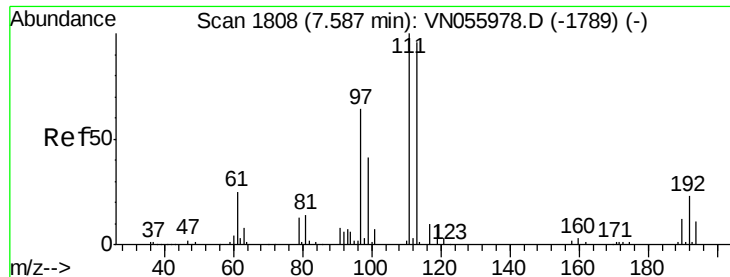
Tot Ion: 65 Resp: 195117
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056279.D
 Acq: 13 Jun 2019 14:20

Tgt Ion: 114 Resp: 575014
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.2
 88 15.1 0.0 31.0

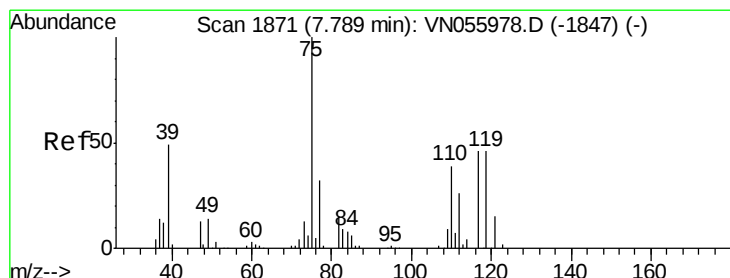
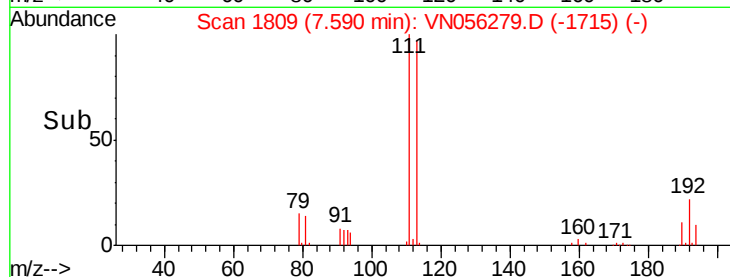
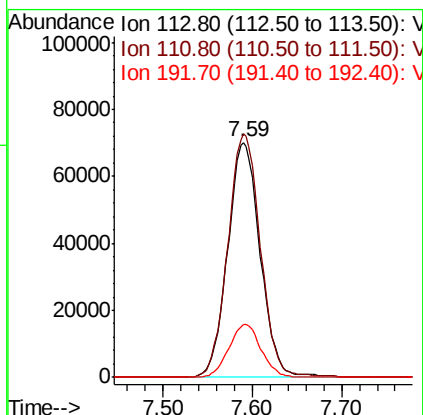
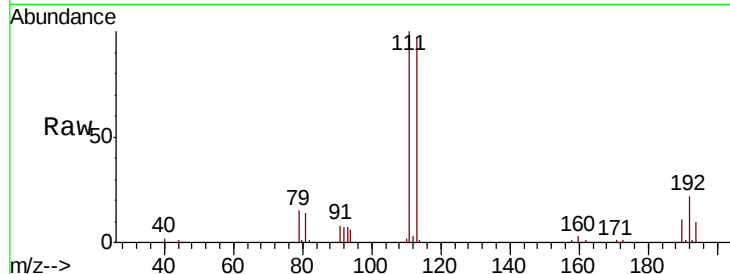




#35
 Dibromofluoromethane
 Concen: 50.069 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056279.D
 Acq: 13 Jun 2019 14:20

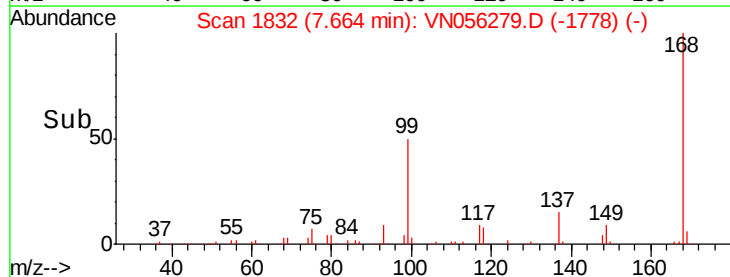
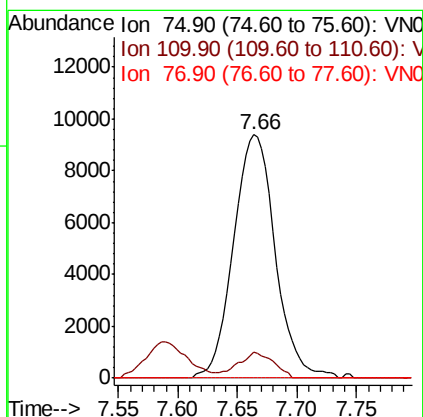
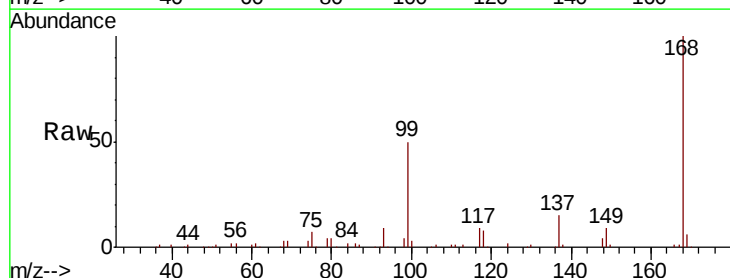
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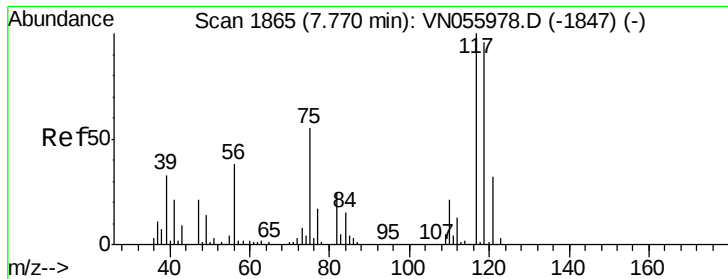
Tot Ion:113 Resp: 176638
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.9 122.9
 192 22.4 19.5 29.3



#36
 1,1-Dichloropropene
 Concen: 4.616 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056279.D
 Acq: 13 Jun 2019 14:20

Tgt Ion: 75 Resp: 22821
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.0 57.0#
 77 0.0 25.1 37.7#

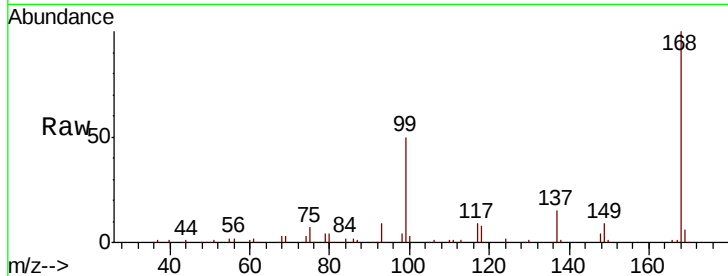




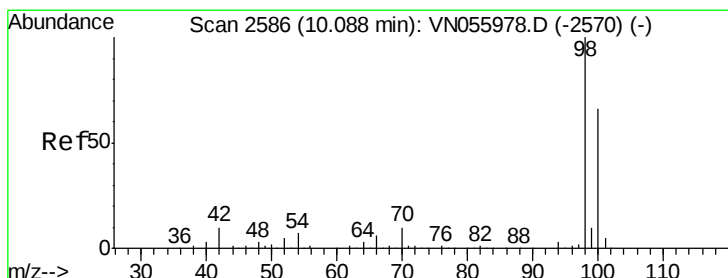
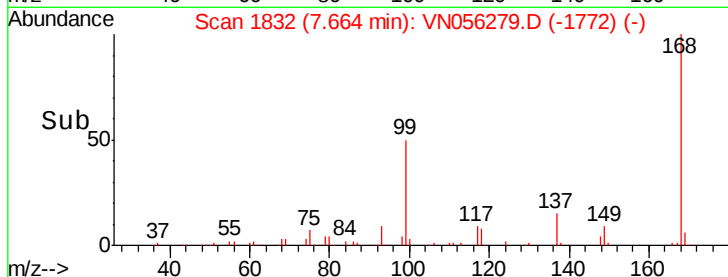
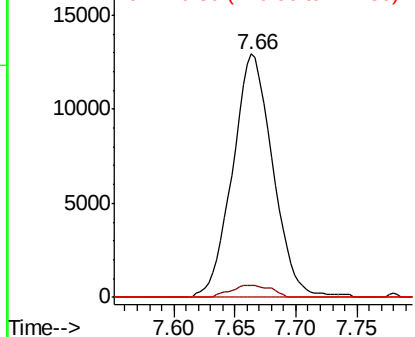
#38
Carbon Tetrachloride
Concen: 6.491 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 29587
Ion Ratio Lower Upper
117 100
119 5.0 79.0 118.6#
121 0.0 24.7 37.1#

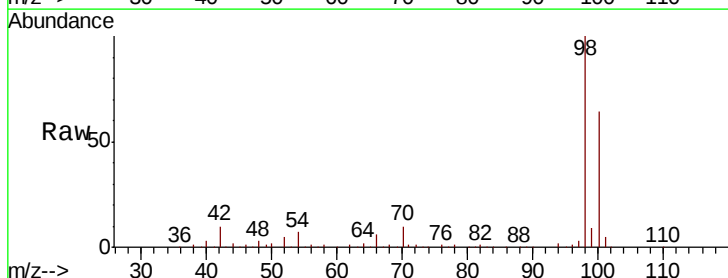


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

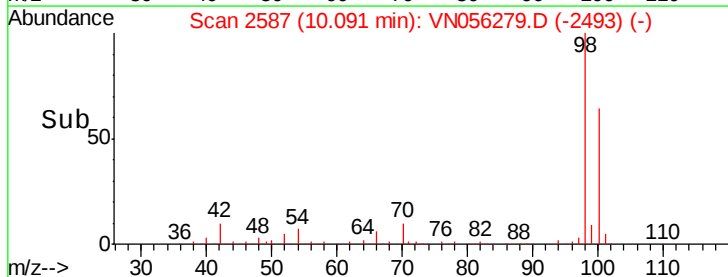
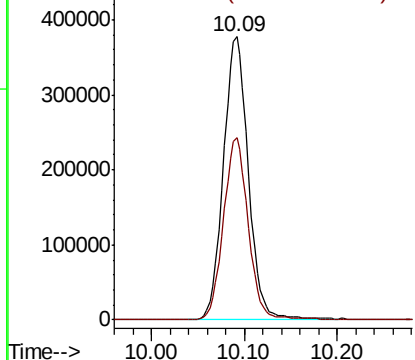


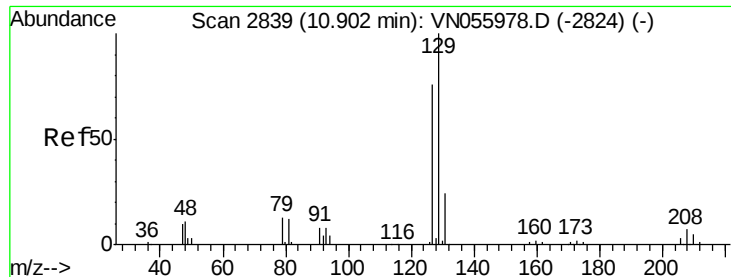
#50
Toluene-d8
Concen: 51.867 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

Tgt Ion: 98 Resp: 704109
Ion Ratio Lower Upper
98 100
100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

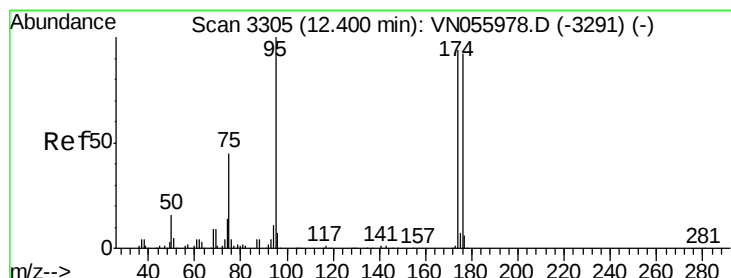
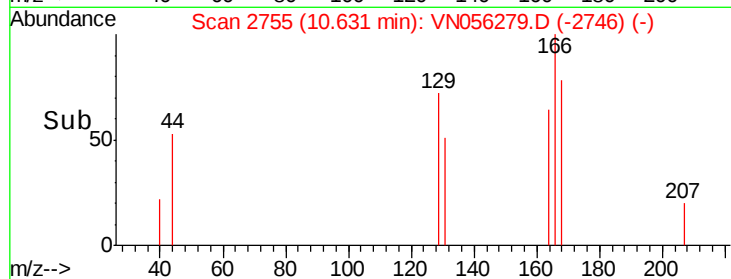
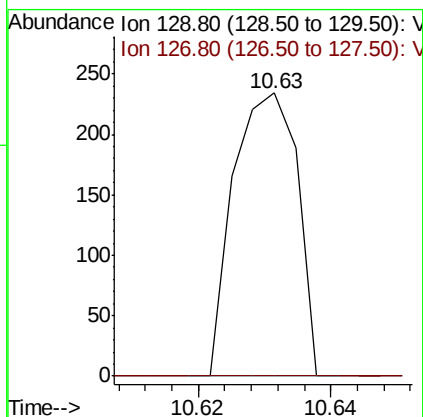
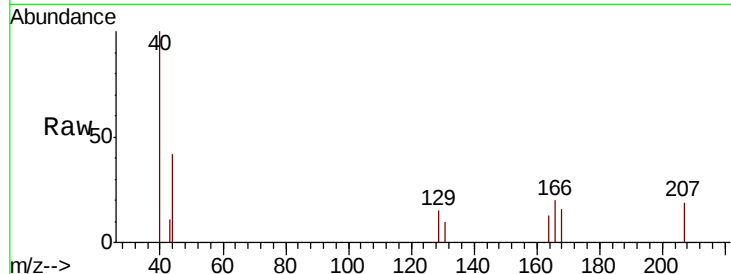




#60
 Dibromochloromethane
 Concen: 2.488 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN056279.D
 Acq: 13 Jun 2019 14:20

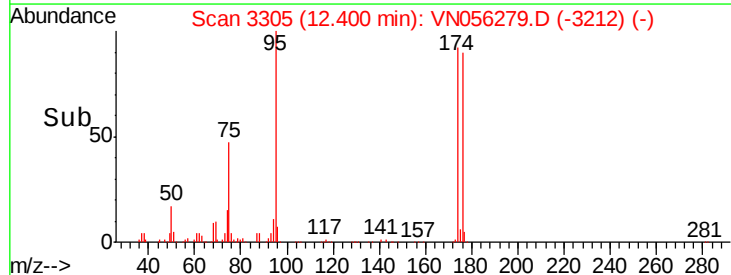
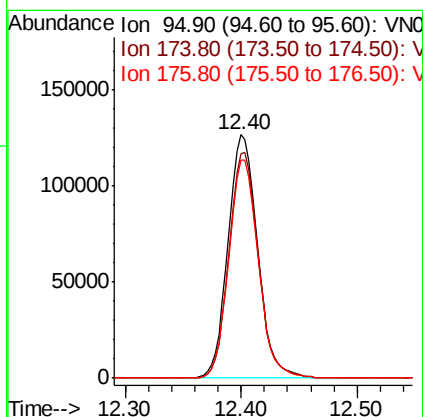
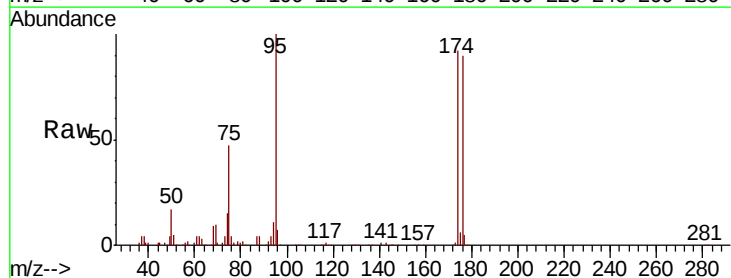
Instrument :
 MSVOA_N
 ClientSampleId :

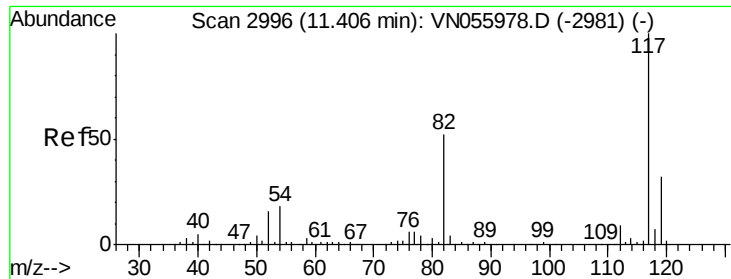
Tot Ion:129 Resp: 156
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.1 114.3#



#62
 4-Bromofluorobenzene
 Concen: 48.033 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN056279.D
 Acq: 13 Jun 2019 14:20

Tgt Ion: 95 Resp: 221752
 Ion Ratio Lower Upper
 95 100
 174 92.2 0.0 191.0
 176 89.4 0.0 185.2

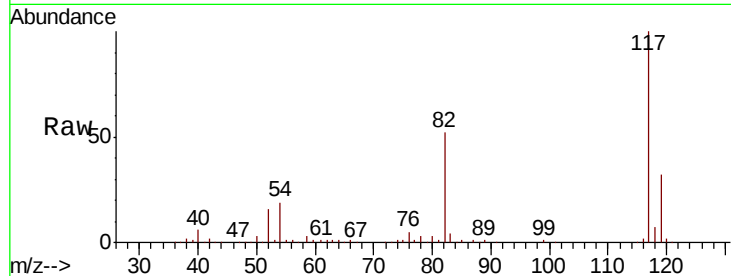




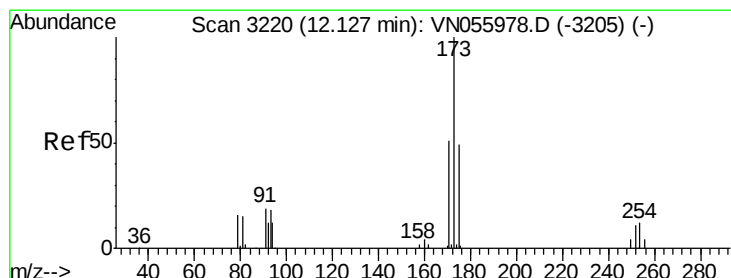
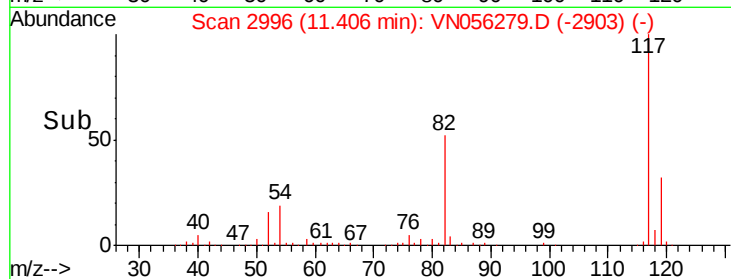
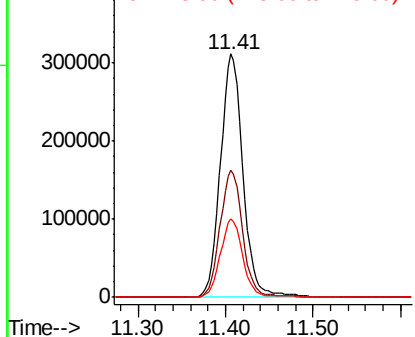
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 558237
Ion Ratio Lower Upper
117 100
82 52.0 41.8 62.8
119 32.3 25.4 38.0

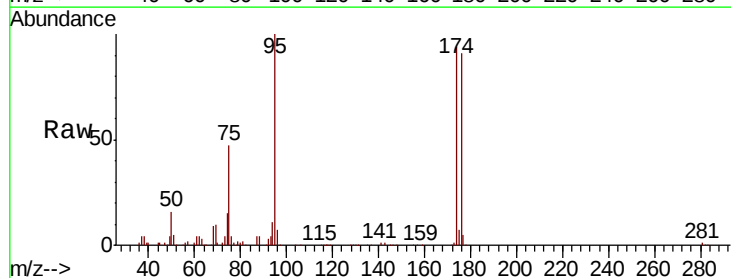


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

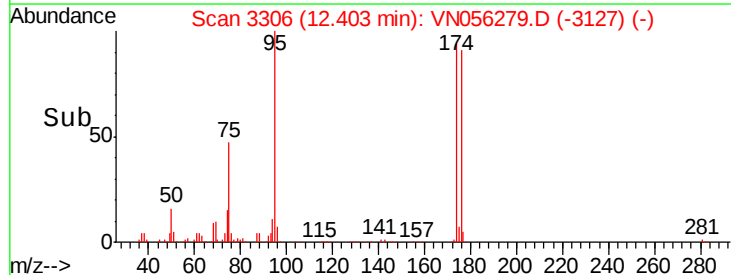
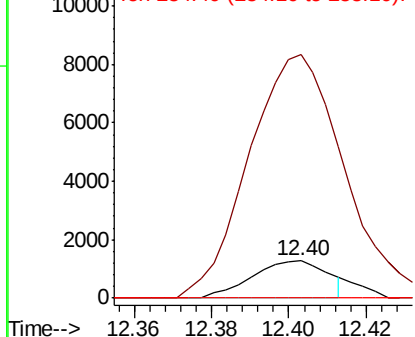


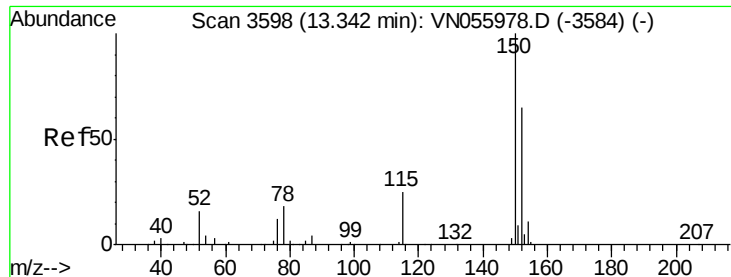
#71
Bromoform
Concen: 3.255 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

Tgt Ion:173 Resp: 1746
Ion Ratio Lower Upper
173 100
175 696.5 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



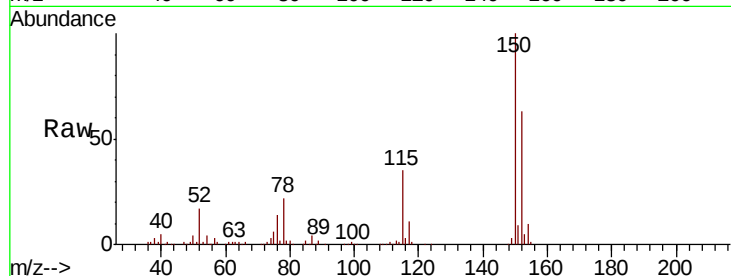


#72

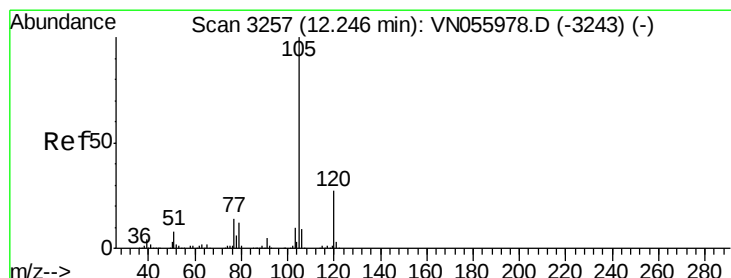
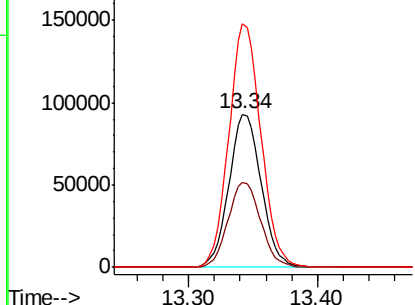
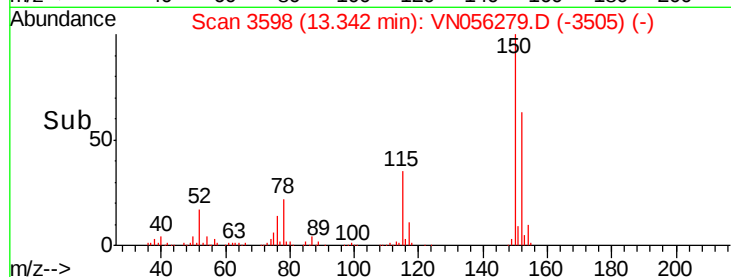
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.8	27.0	81.0
150	157.5	0.0	343.2



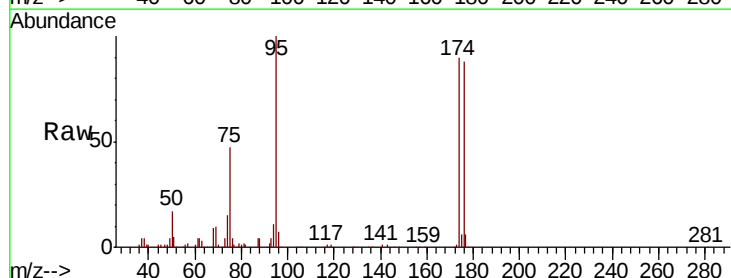
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



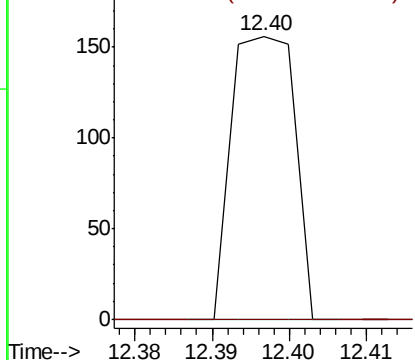
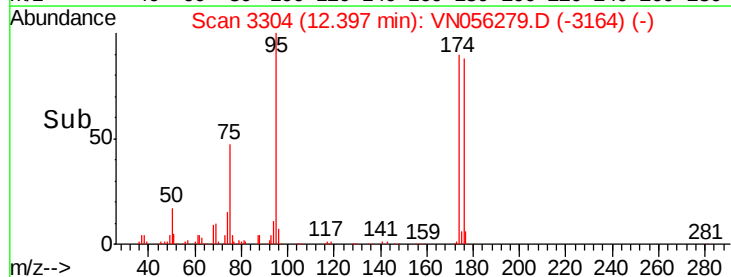
#73

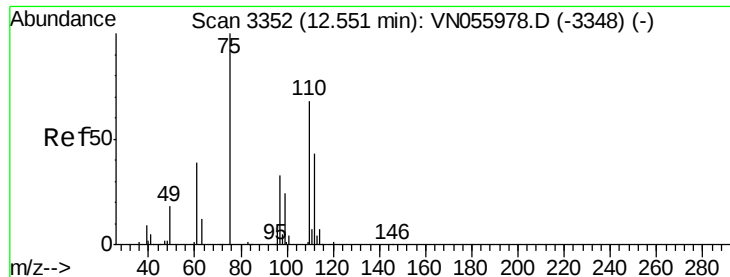
Isopropylbenzene
Concen: Below Cal
RT: 12.40 min Scan# 3304
Delta R.T. 0.15 min
Lab File: VN056279.D
Acq: 13 Jun 2019 14:20

Tgt 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: 35.035 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056279.D

Acq: 13 Jun 2019 14:20

Instrument :

MSVOA_N

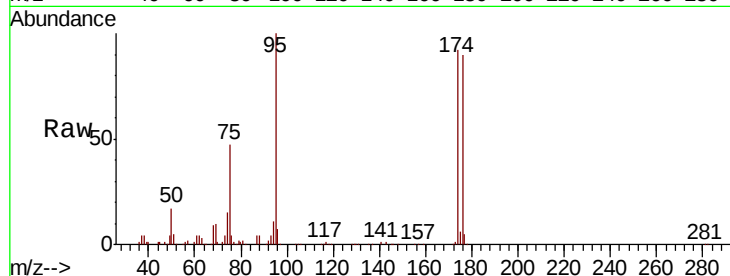
ClientSampleId :

Tot Ion: 75 Resp: 104292

Ion Ratio Lower Upper

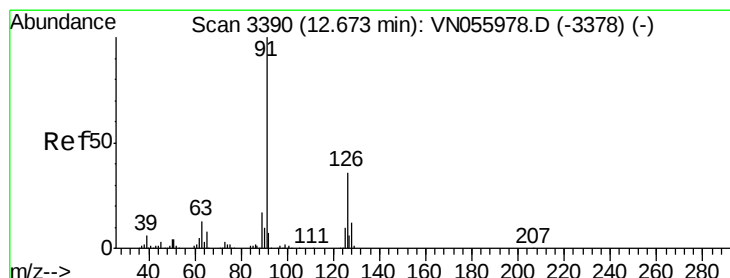
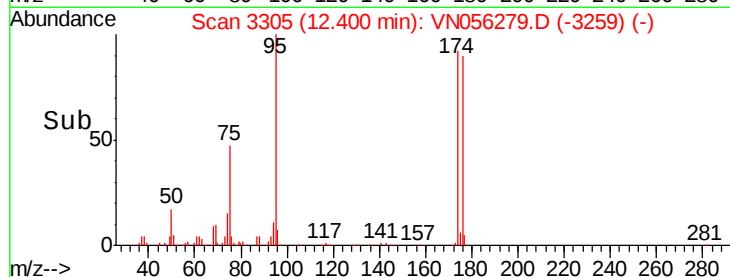
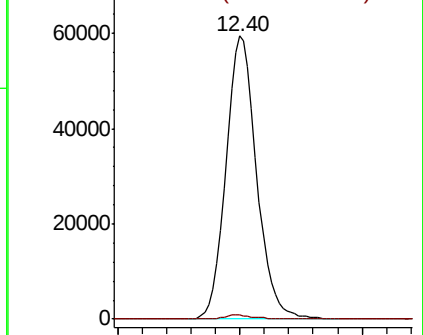
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056279.D

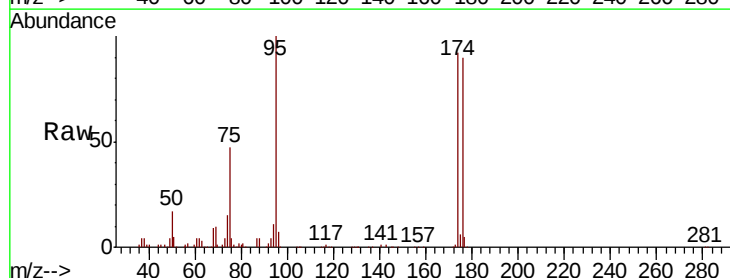
Acq: 13 Jun 2019 14:20

Tgt Ion: 91 Resp: 647

Ion Ratio Lower Upper

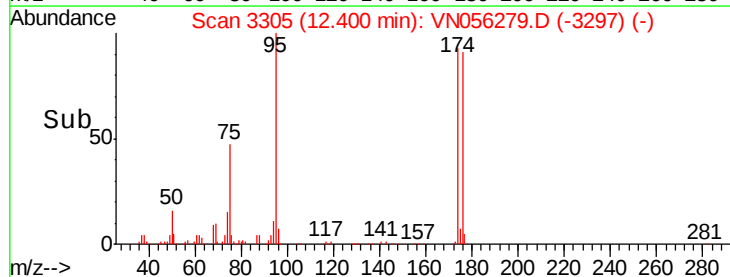
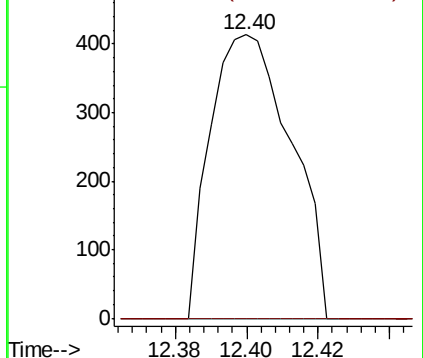
91 100

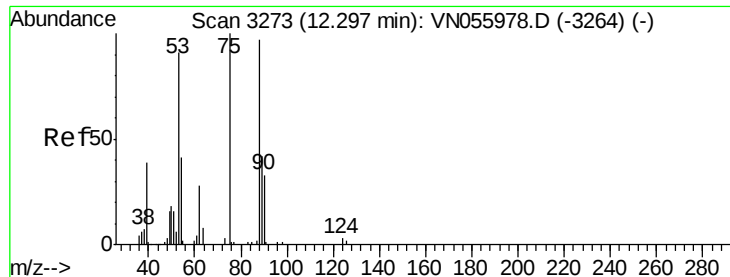
126 0.0 18.1 54.4#



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: 116.674 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056279.D

Acq: 13 Jun 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

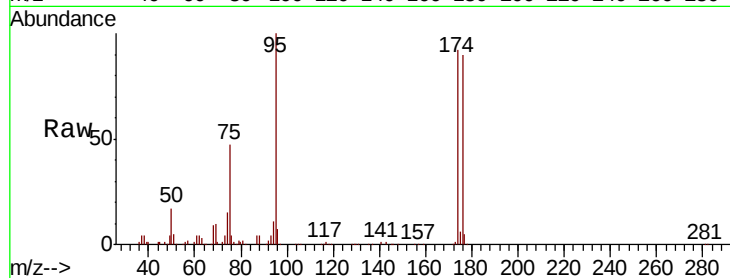
Tot Ion: 75 Resp: 104292

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

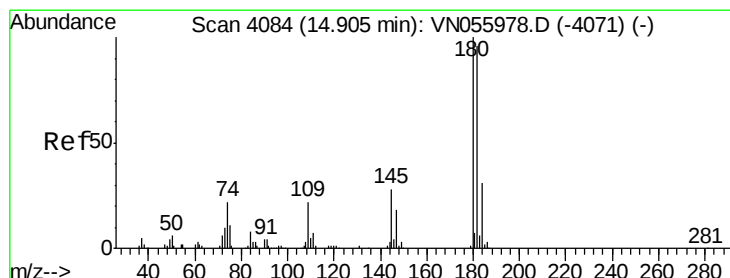
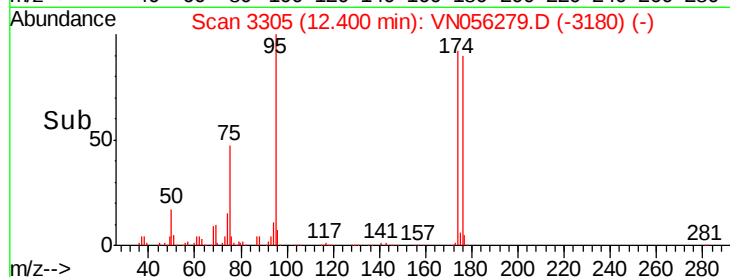
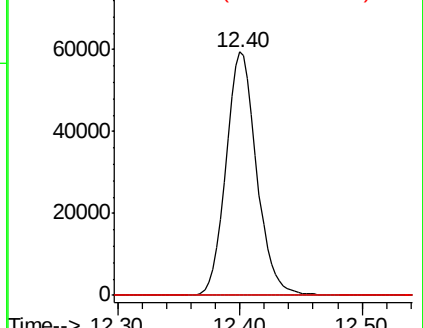
89 0.0 36.9 55.3#



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: 4.280 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VN056279.D

Acq: 13 Jun 2019 14:20

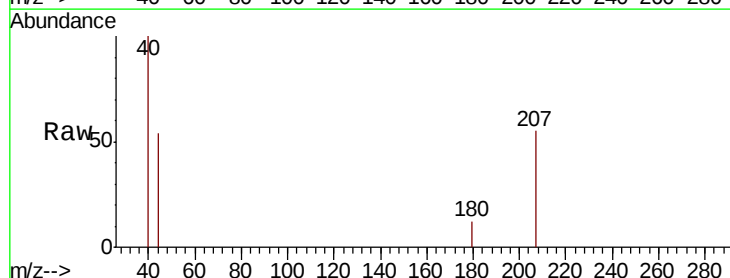
Tgt Ion:180 Resp: 32

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

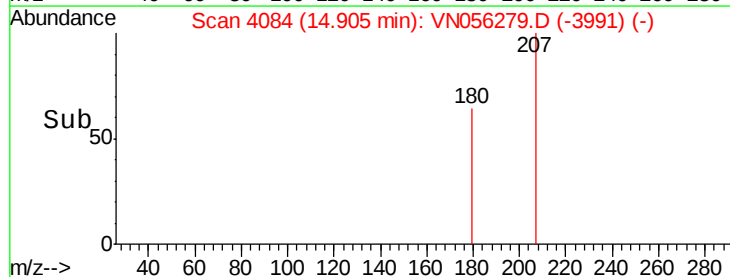
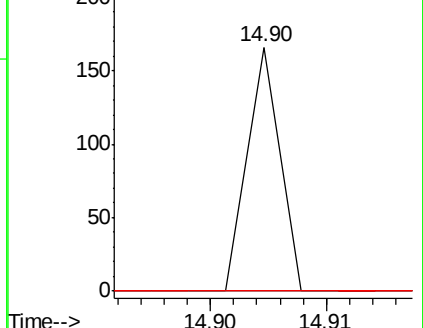
145 0.0 14.0 41.9#

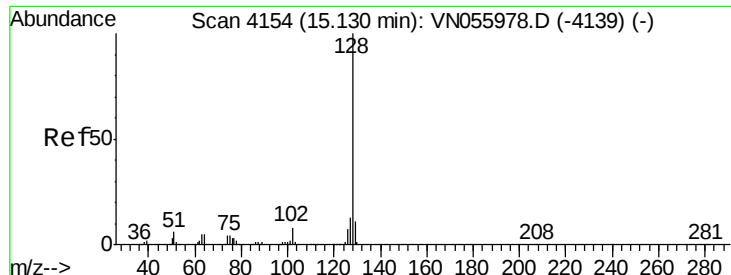


Abundance Ion 179.80 (179.50 to 180.50): VN055978.D (-4071) (-)

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: 3.860 ug/l
 RT: 15.15 min Scan# 4160
 Delta R.T. 0.02 min
 Lab File: VN056279.D
 Acq: 13 Jun 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.7	13.1#

