

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062619\
 Data File : VN056496.D
 Acq On : 26 Jun 2019 11:16
 Operator : JC/SP
 Sample : VN0626WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 27 07:36:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

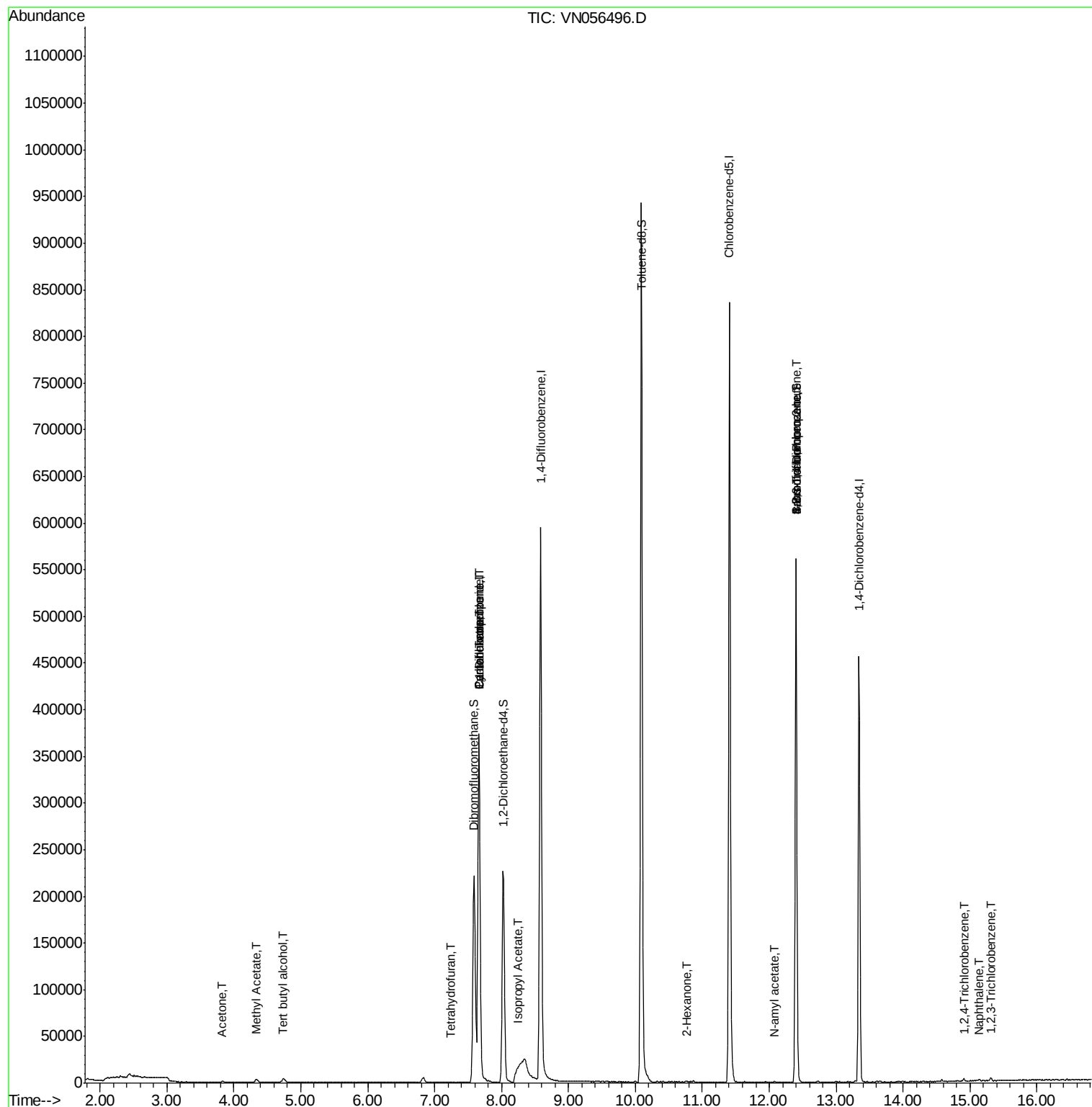
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	343583	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	583297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	540457	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136516	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	197113	51.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.52%	
35) Dibromofluoromethane	7.59	113	176402	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
50) Toluene-d8	10.09	98	708348	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
62) 4-Bromofluorobenzene	12.40	95	204772	43.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.76%	
Target Compounds				Qvalue		
11) Tert butyl alcohol	4.74	59	4130	6.439	ug/l #	74
16) Acetone	3.83	43	1471	0.771	ug/l	100
18) Methyl Acetate	4.34	43	7867	1.260	ug/l	92
20) Methylene Chloride	4.54	84	137	Below Cal	#	41
29) Tetrahydrofuran	7.23	42	440	0.285	ug/l #	33
31) Cyclohexane	7.66	56	5648	0.960	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21822	4.250	ug/l #	43
38) Carbon Tetrachloride	7.66	117	29327	6.532	ug/l #	15
43) Isopropyl Acetate	8.23	43	12253	1.575	ug/l #	54
59) 2-Hexanone	10.76	43	1238	0.335	ug/l	83
71) Bromoform	12.40	173	1610	3.652	ug/l #	1
73) Isopropylbenzene	12.25	105	390	Below Cal	#	48
74) N-amyl acetate	12.08	43	961	0.221	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	97025	34.276	ug/l #	100
79) 2-Chlorotoluene	12.67	91	356	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	390	Below Cal		73
81) trans-1,4-Dichloro-2-buten	12.40	75	97025	121.823	ug/l #	8
83) tert-Butylbenzene	12.99	119	439	Below Cal	#	82
93) 1,2,4-Trichlorobenzene	14.91	180	911	5.952	ug/l	84
94) Hexachlorobutadiene	15.01	225	33	Below Cal	#	18
95) Naphthalene	15.13	128	2532	5.608	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.32	180	1637	5.083	ug/l	96

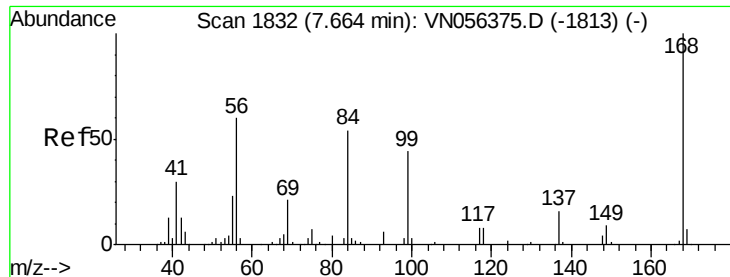
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 21 03:45:40 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: VN056496.D

Acq: 26 Jun 2019 11:16

Instrument :

MSVOA_N

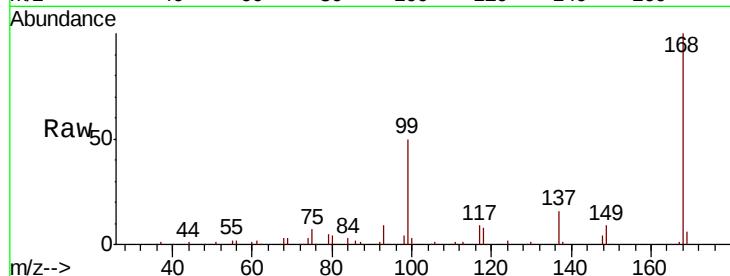
ClientSampled :

Tot Ion:168 Resp: 343583

Ion Ratio Lower Upper

168 100

99 49.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

150000

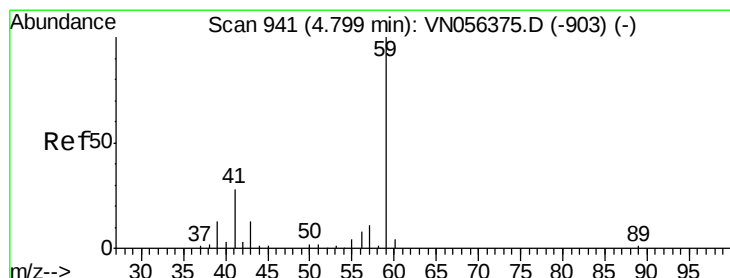
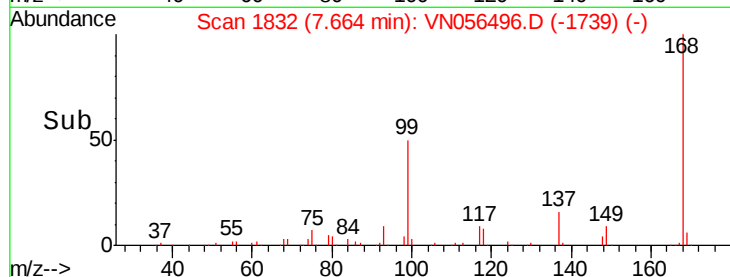
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 6.439 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.06 min

Lab File: VN056496.D

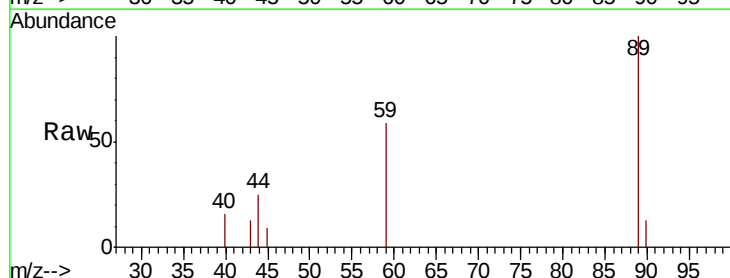
Acq: 26 Jun 2019 11:16

Tgt Ion: 59 Resp: 4130

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

1500

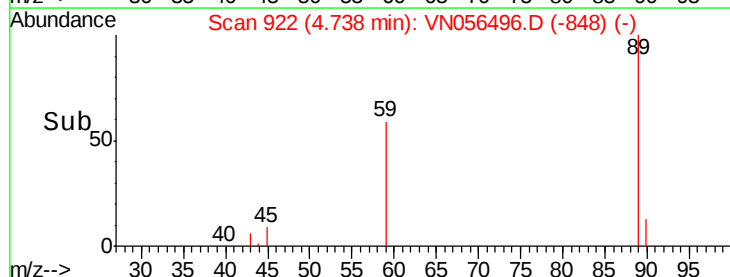
1000

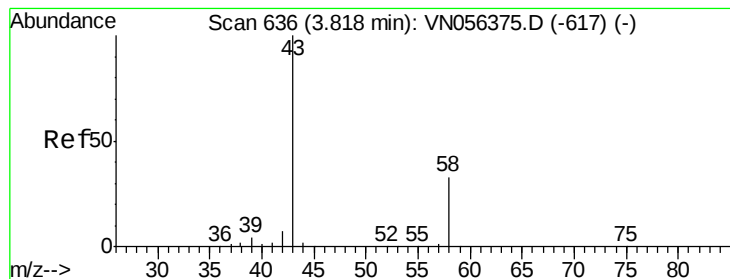
500

0

Time-->

4.65 4.70 4.75 4.80





#16

Acetone

Concen: 0.771 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

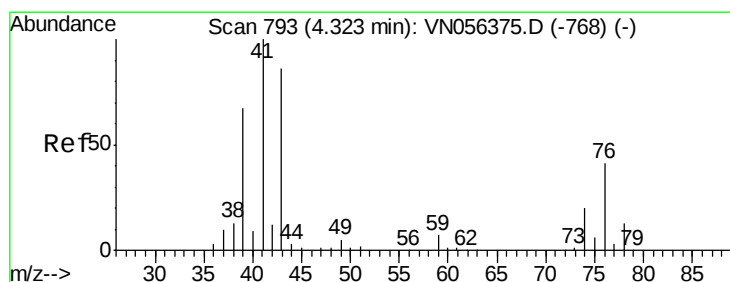
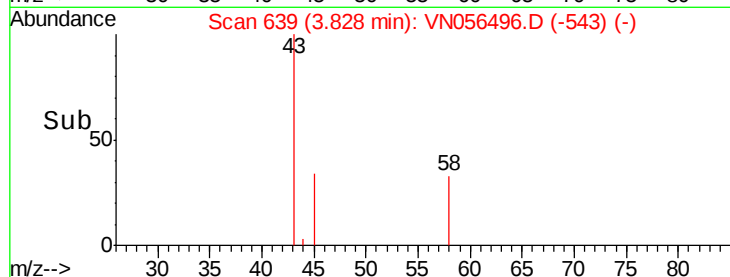
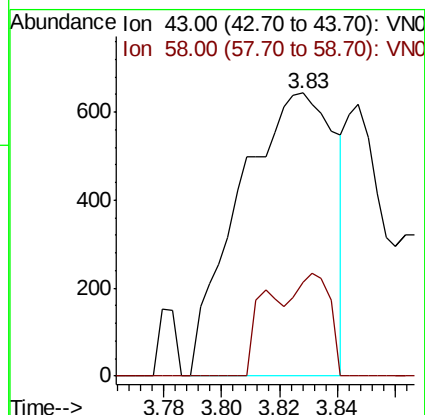
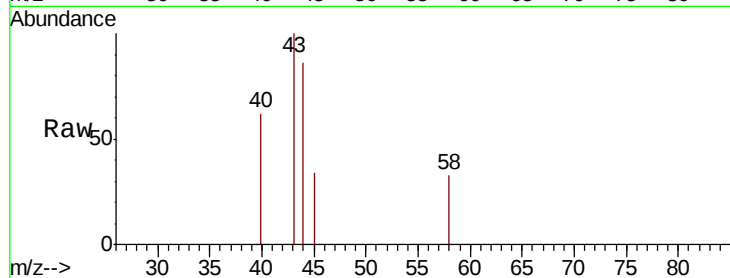
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1471

Ion Ratio Lower Upper

43 100

58 33.1 26.4 39.6



#18

Methyl Acetate

Concen: 1.260 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN056496.D

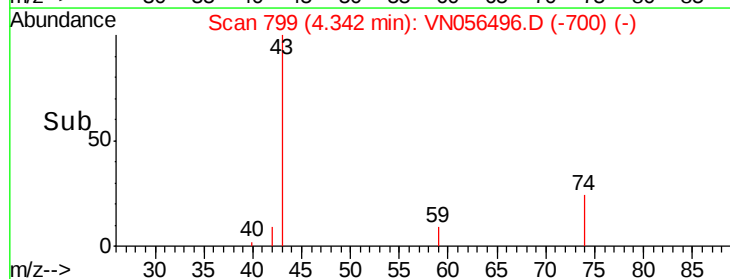
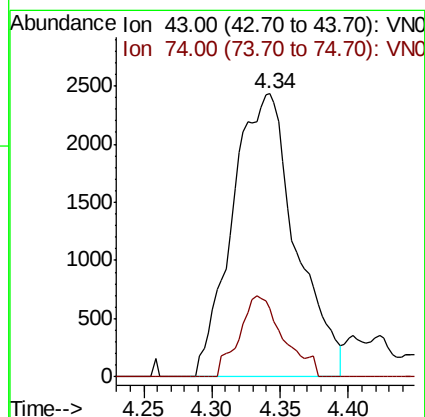
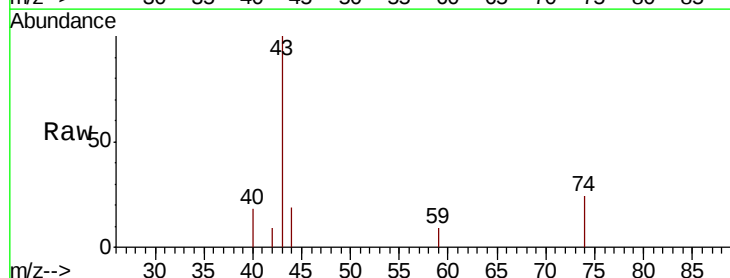
Acq: 26 Jun 2019 11:16

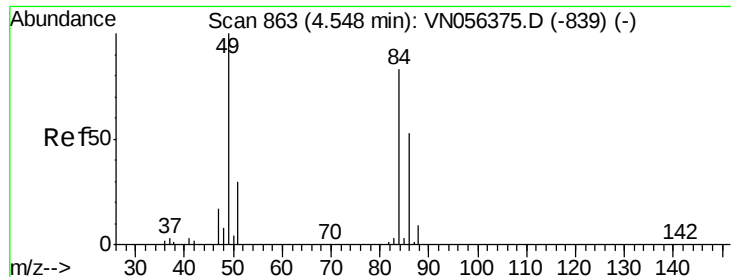
Tgt Ion: 43 Resp: 7867

Ion Ratio Lower Upper

43 100

74 19.9 19.2 28.8

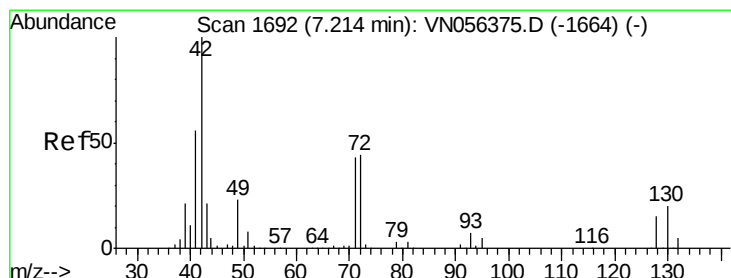
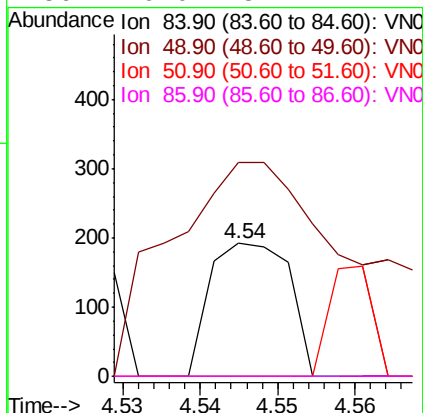
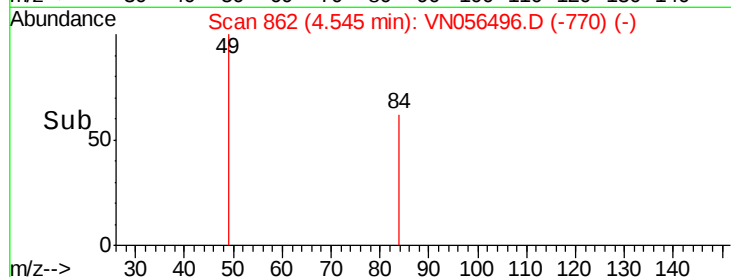
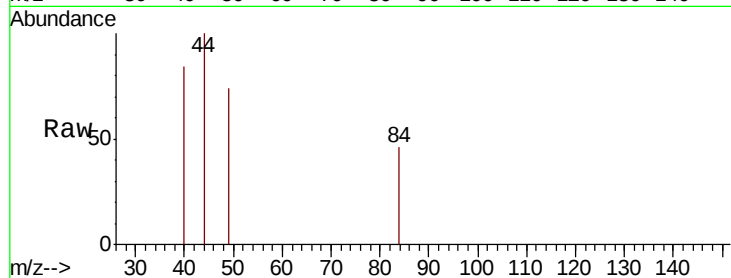




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

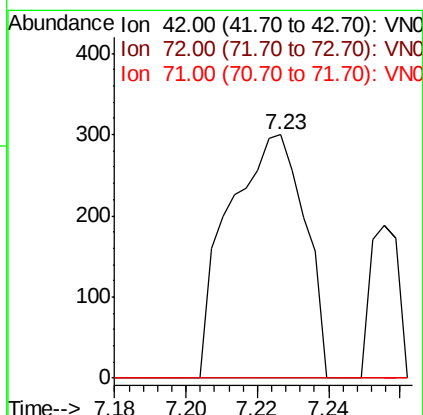
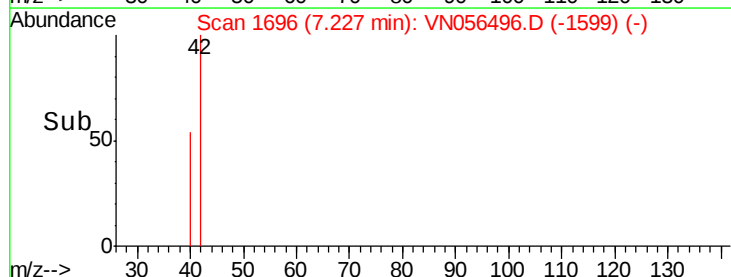
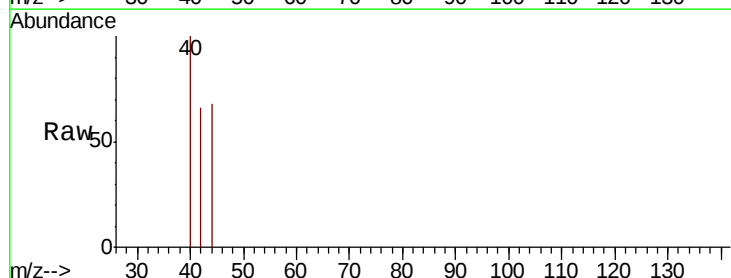
Instrument :
MSVOA_N
ClientSampled :

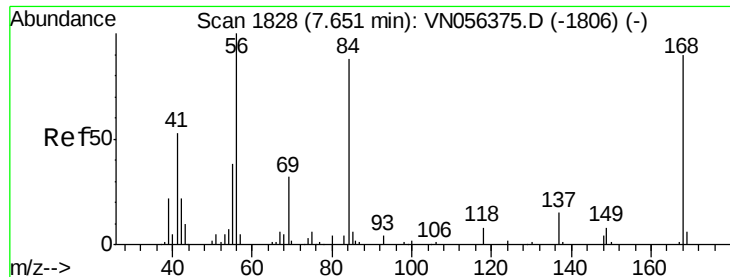
Tot Ion:	84	Resp:	137
Ion	Ratio	Lower	Upper
84	100		
49	69.3	96.4	144.6#
51	0.0	28.6	43.0#
86	0.0	51.4	77.2#



#29
Tetrahydrofuran
Concen: 0.285 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Tgt Ion:	42	Resp:	440
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.7	52.1#
71	0.0	33.0	49.6#

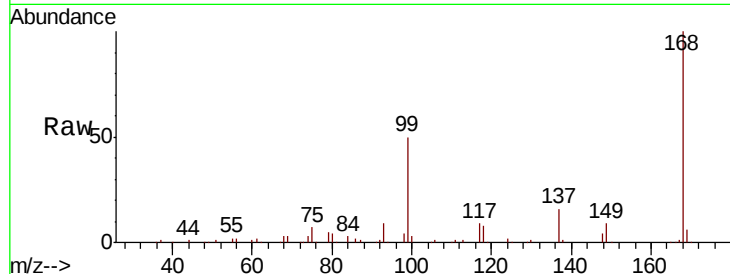




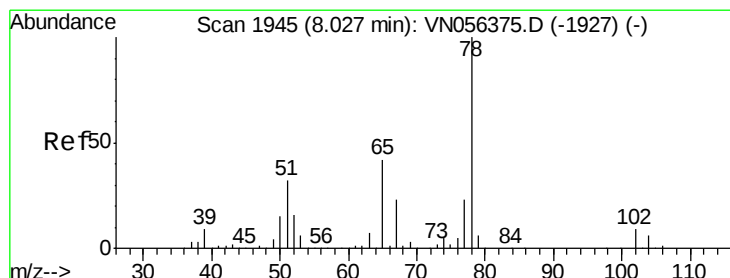
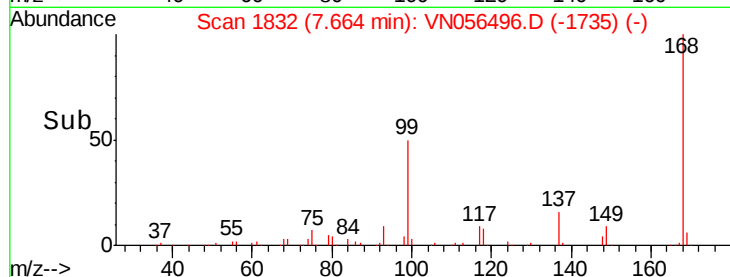
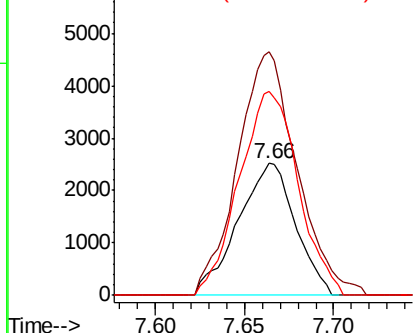
#31
Cyclohexane
Concen: 0.960 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5648
Ion Ratio Lower Upper
56 100
69 184.6 25.8 38.6#
84 154.5 69.4 104.0#

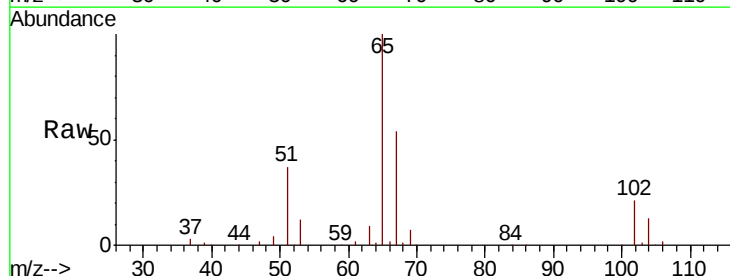


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

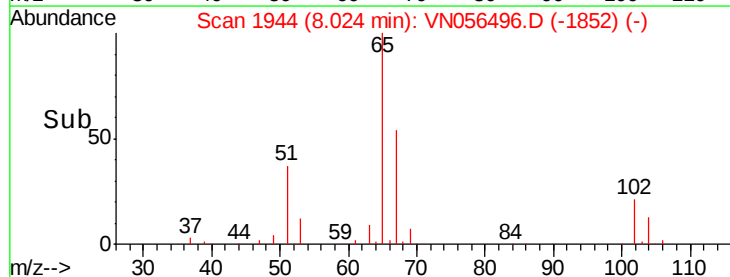
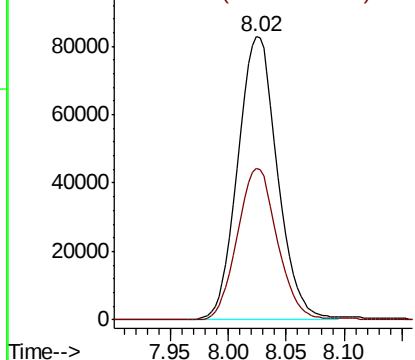


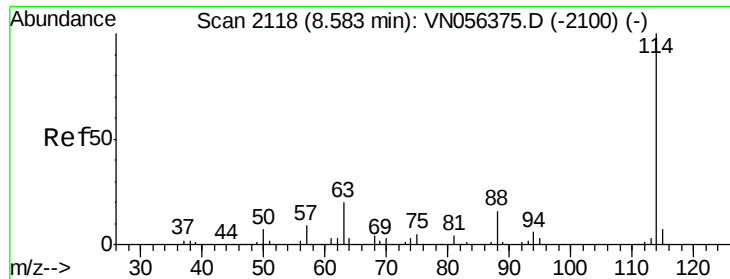
#33
1,2-Dichloroethane-d4
Concen: 51.763 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Tgt Ion: 65 Resp: 197113
Ion Ratio Lower Upper
65 100
67 54.0 0.0 109.0



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

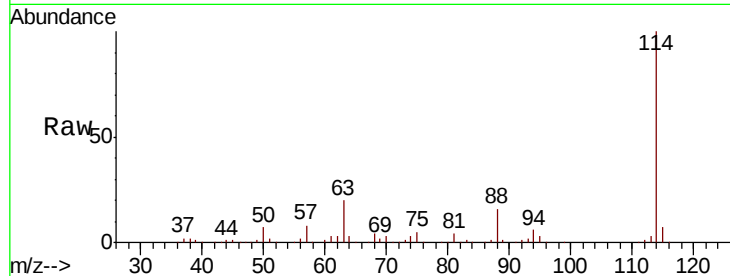




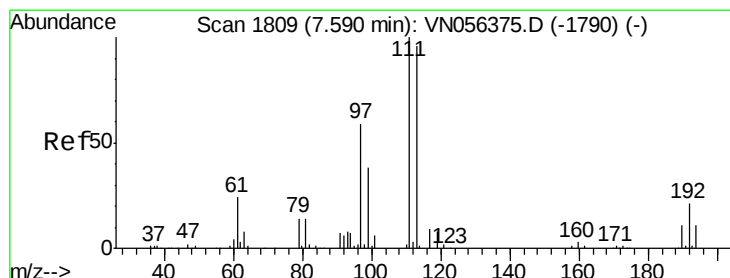
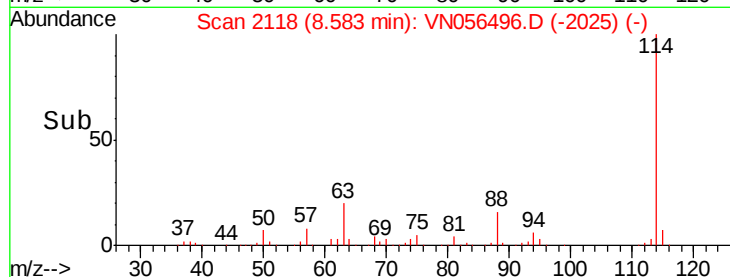
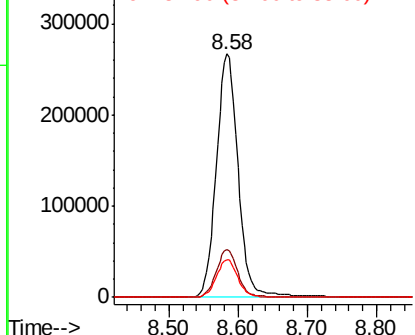
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056496.D
 Acq: 26 Jun 2019 11:16

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.2
88	15.6	0.0	31.4

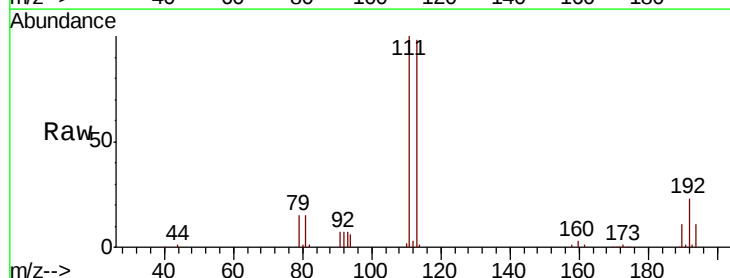


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

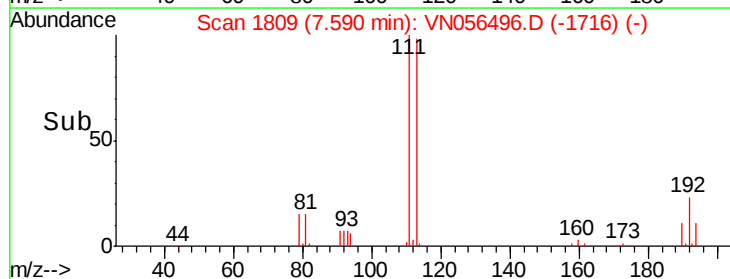
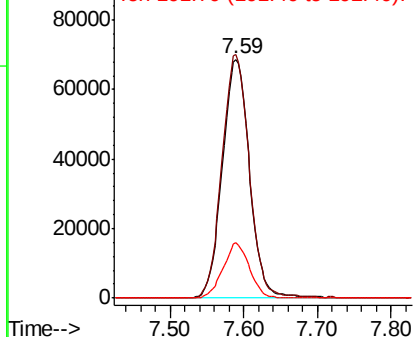


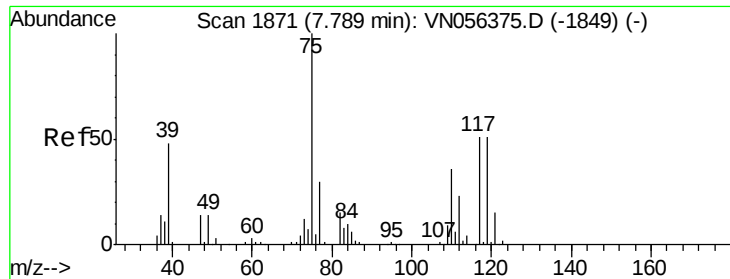
#35
 Dibromofluoromethane
 Concen: 48.478 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056496.D
 Acq: 26 Jun 2019 11:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.9	124.3
192	22.3	17.7	26.5



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

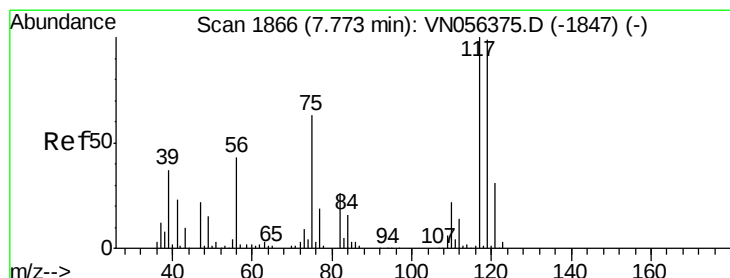
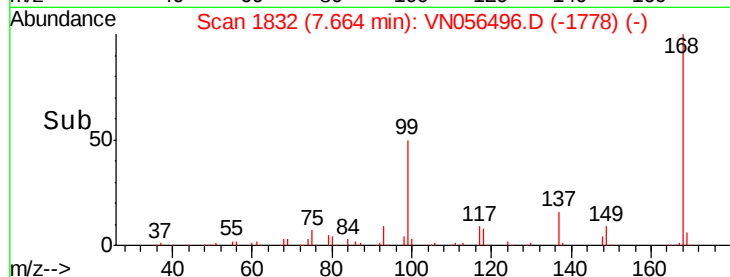
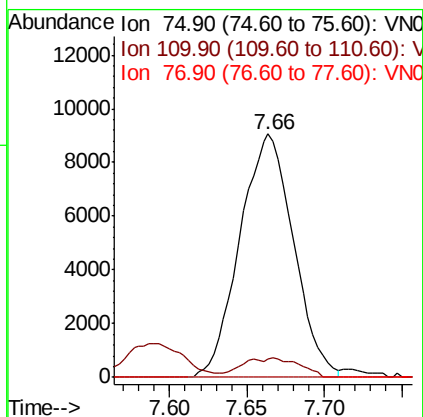
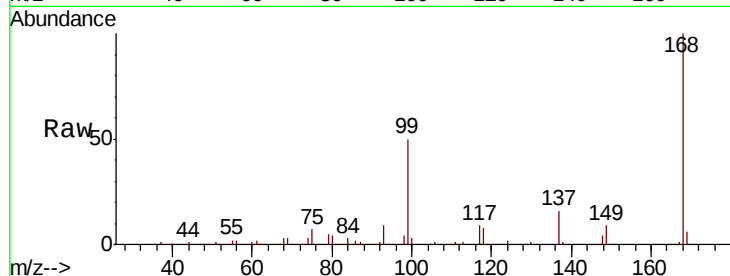




#36
 1,1-Dichloropropene
 Concen: 4.250 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056496.D
 Acq: 26 Jun 2019 11:16

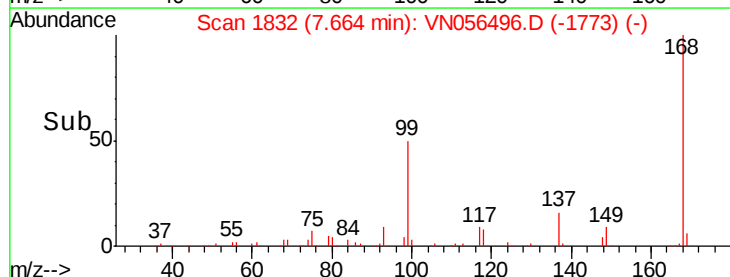
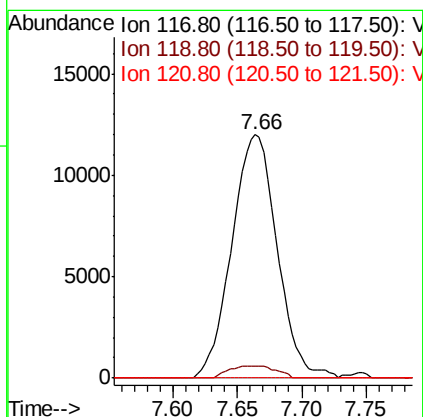
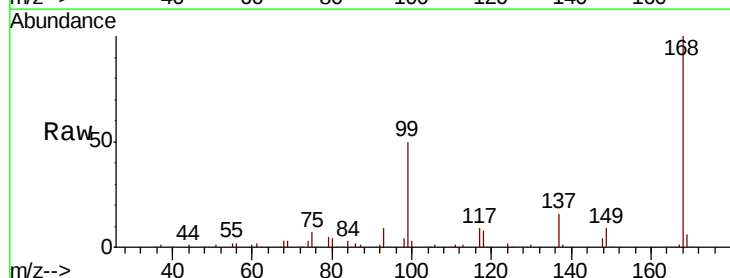
Instrument :
 MSVOA_N
 ClientSampleId :

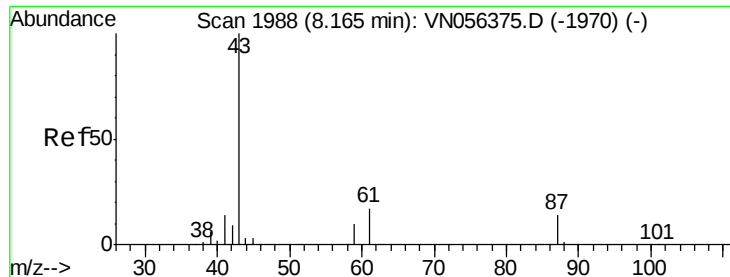
Tot Ion: 75 Resp: 21822
 Ion Ratio Lower Upper
 75 100
 110 2.4 18.1 54.3#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.532 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056496.D
 Acq: 26 Jun 2019 11:16

Tgt Ion: 117 Resp: 29327
 Ion Ratio Lower Upper
 117 100
 119 5.1 79.1 118.7#
 121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 1.575 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.07 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

Instrument :

MSVOA_N

ClientSampleId :

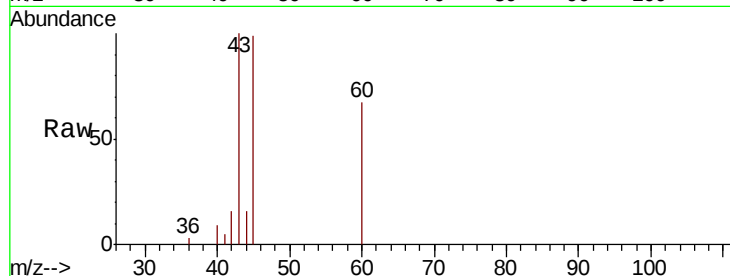
Tot Ion: 43 Resp: 12253

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

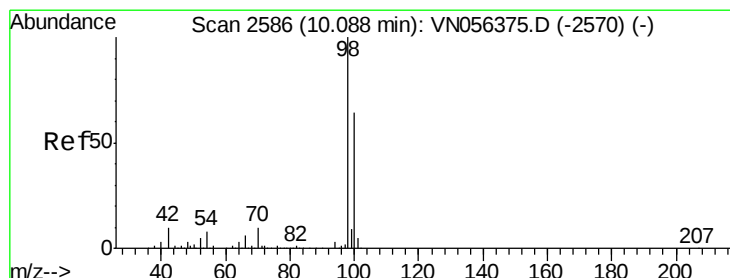
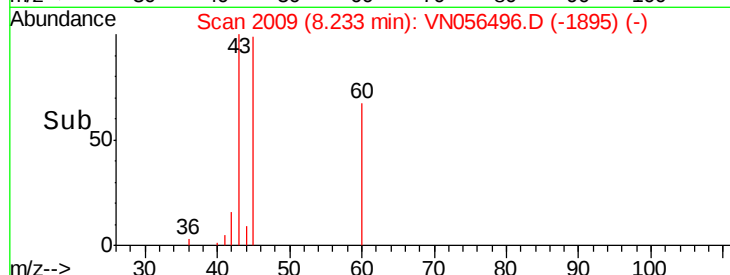
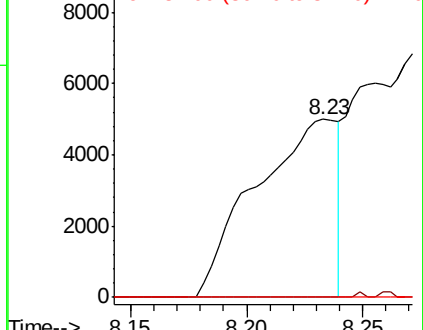
87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 50.028 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056496.D

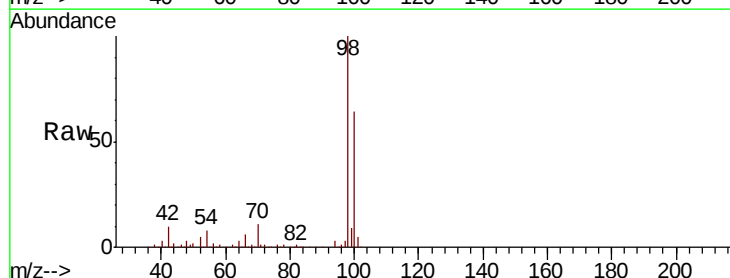
Acq: 26 Jun 2019 11:16

Tgt Ion: 98 Resp: 708348

Ion Ratio Lower Upper

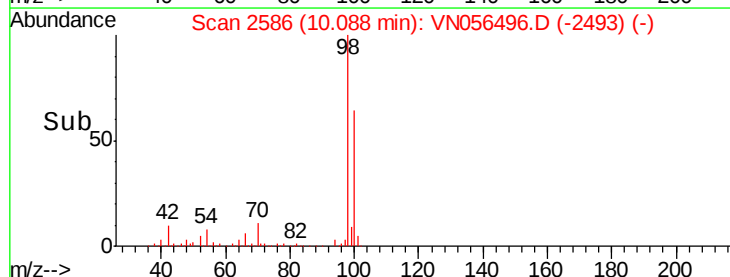
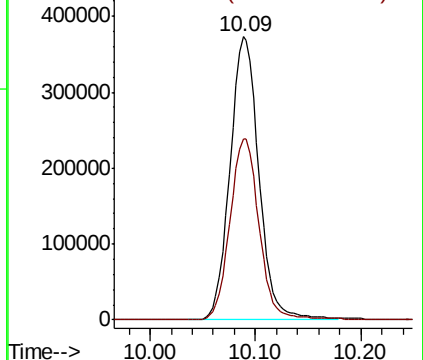
98 100

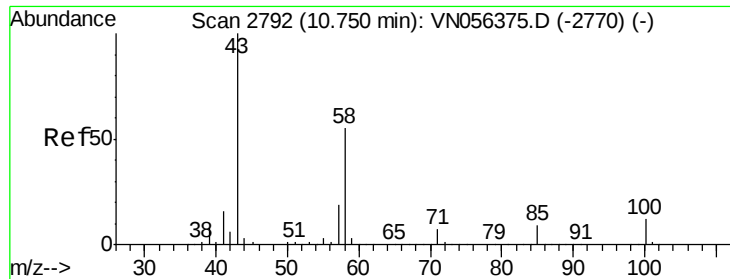
100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

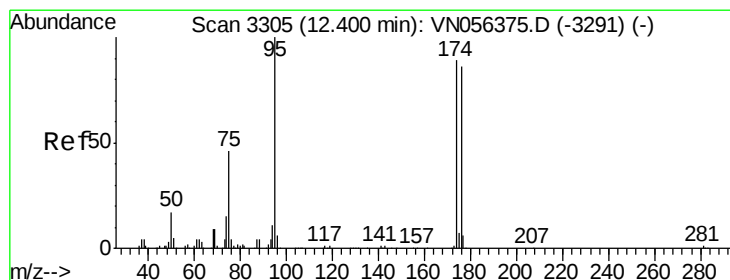
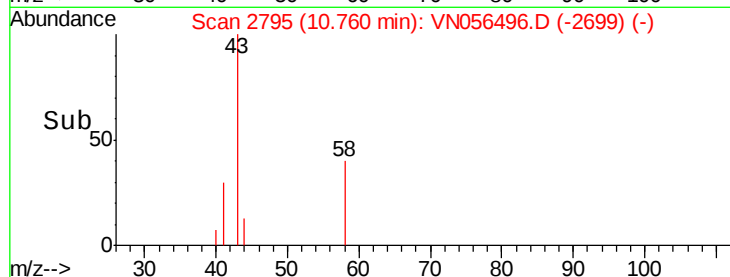
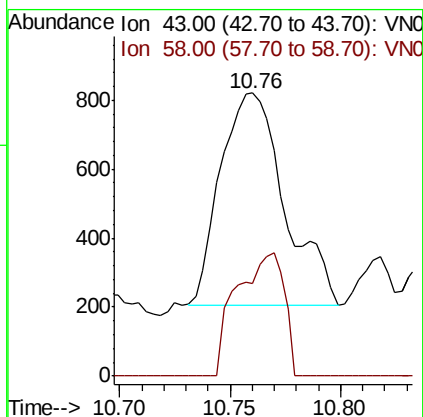
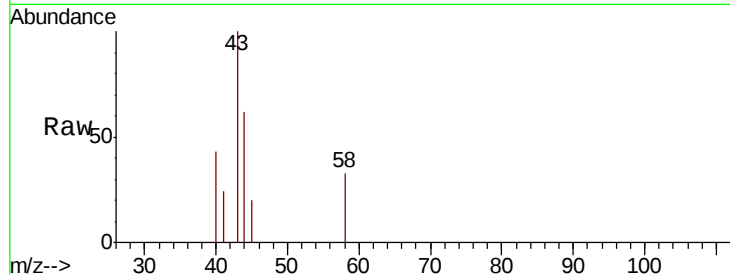




#59
2-Hexanone
Concen: 0.335 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

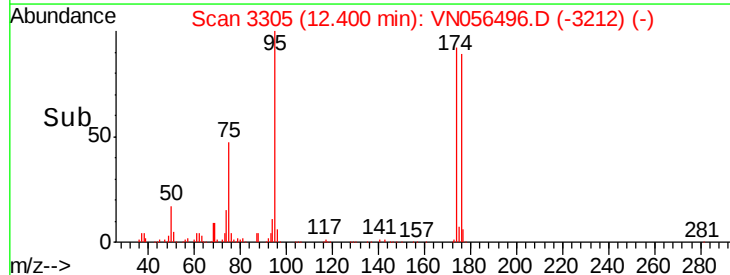
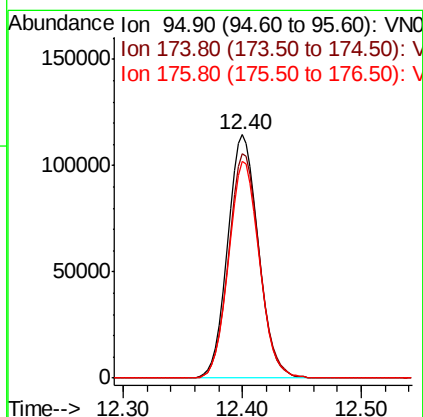
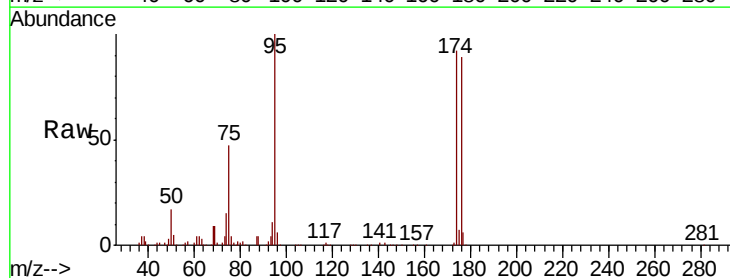
Instrument :
MSVOA_N
ClientSampleId :

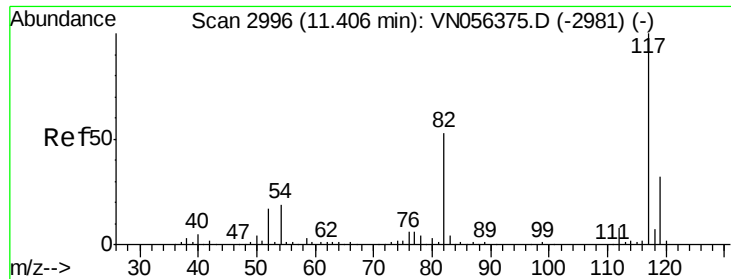
Tot Ion: 43 Resp: 1238
Ion Ratio Lower Upper
43 100
58 43.1 27.8 83.4



#62
4-Bromofluorobenzene
Concen: 43.384 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Tgt Ion: 95 Resp: 204772
Ion Ratio Lower Upper
95 100
174 92.7 0.0 179.4
176 89.1 0.0 173.4

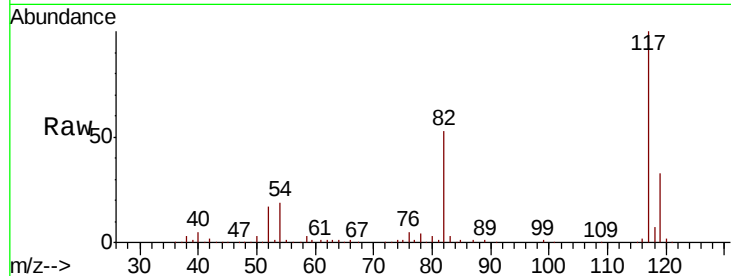




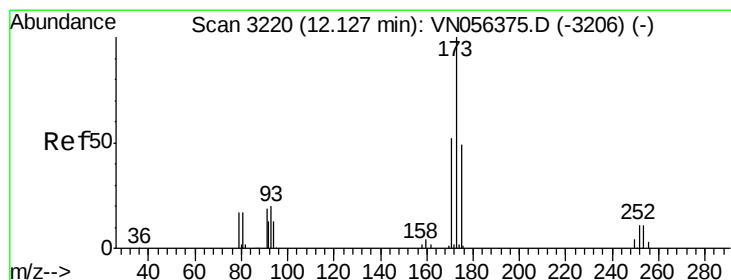
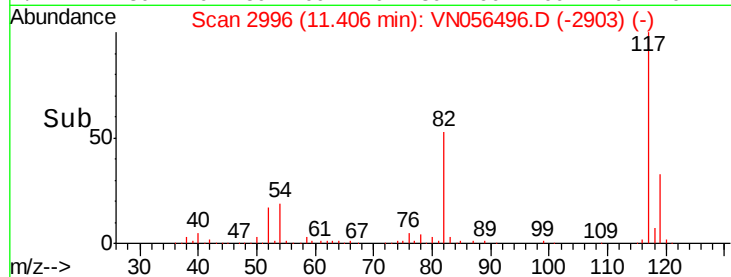
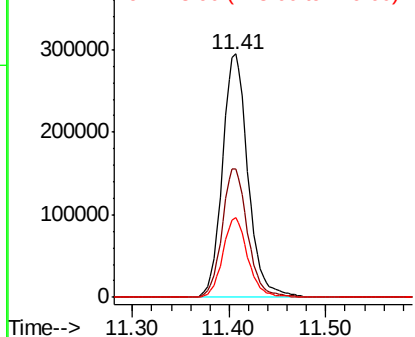
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 540457
Ion Ratio Lower Upper
117 100
82 53.0 42.0 63.0
119 32.5 25.3 37.9

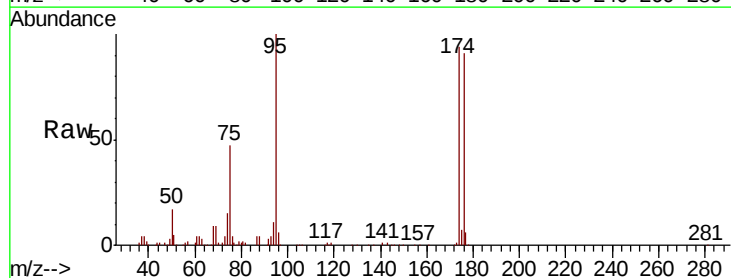


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

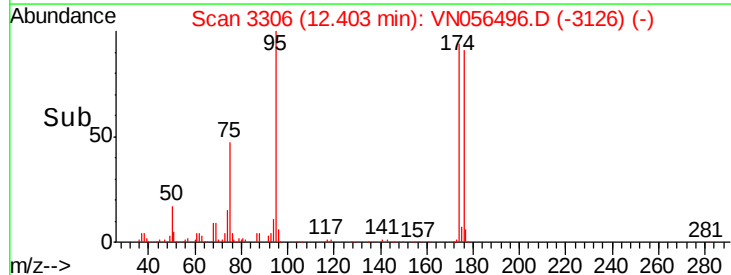
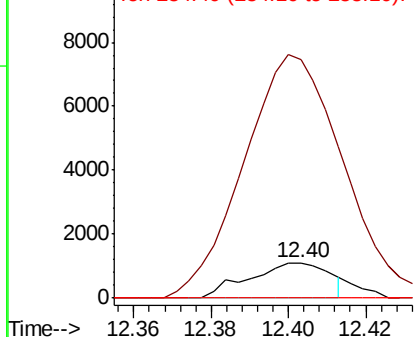


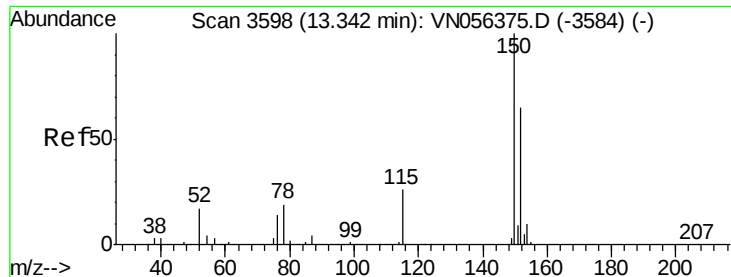
#71
Bromoform
Concen: 3.652 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Tgt Ion:173 Resp: 1610
Ion Ratio Lower Upper
173 100
175 723.5 24.4 73.4#
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



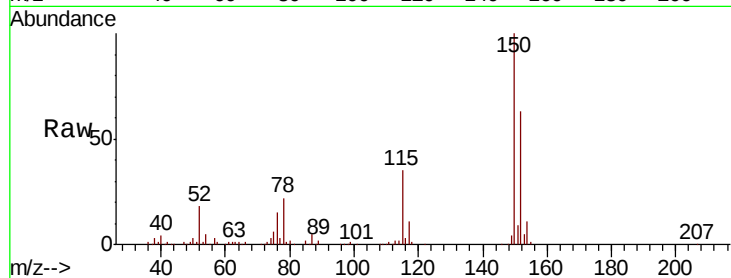


#72

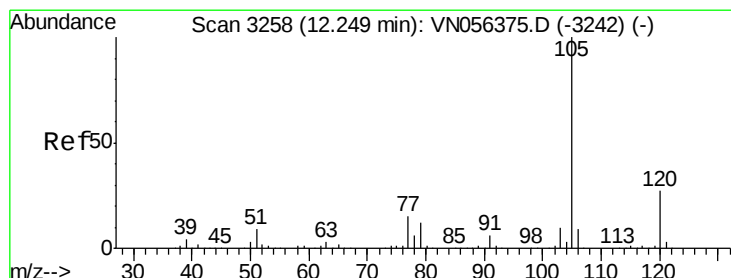
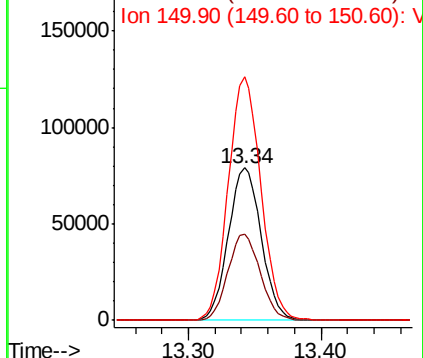
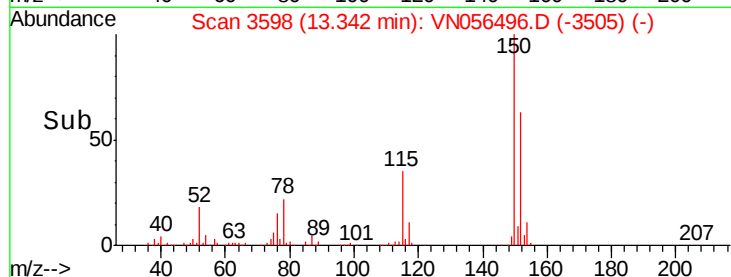
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.4	28.1	84.4
150	158.2	0.0	348.4



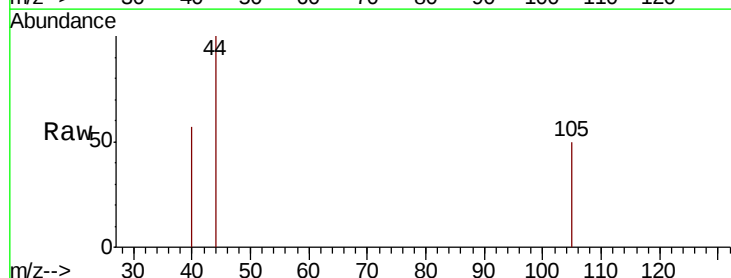
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



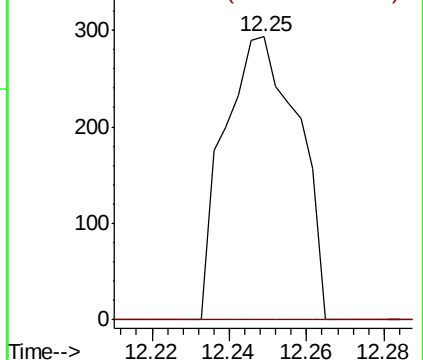
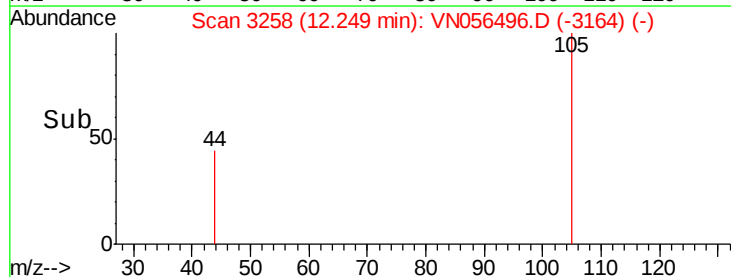
#73

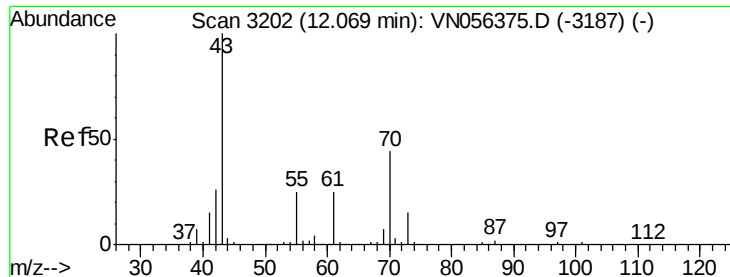
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056496.D
Acq: 26 Jun 2019 11:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.4	40.2#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.221 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 961

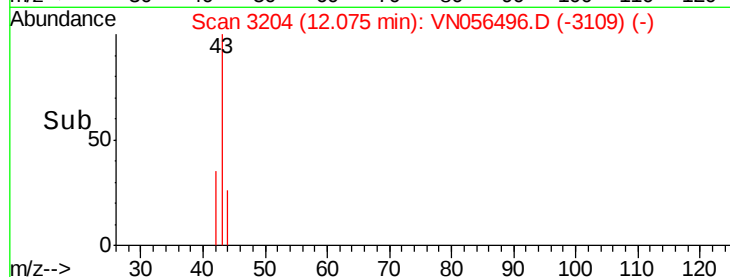
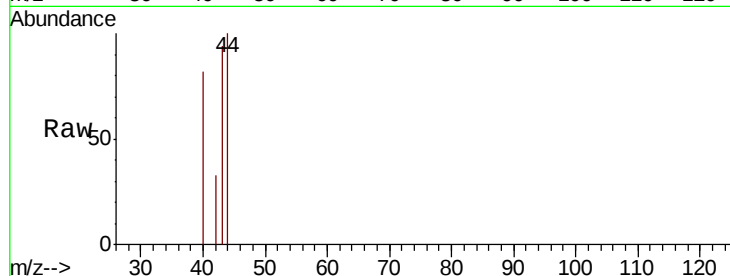
Ion Ratio Lower Upper

43 100

70 7.7 34.9 52.3#

55 0.0 20.4 30.6#

61 0.0 19.8 29.8#

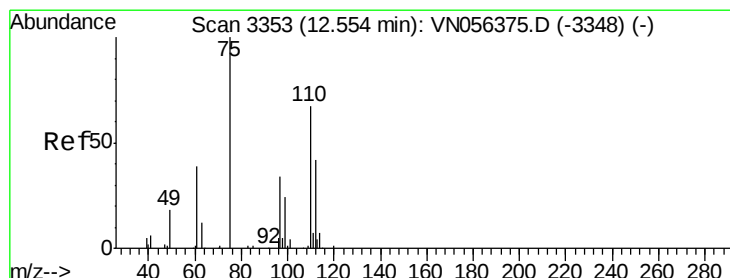
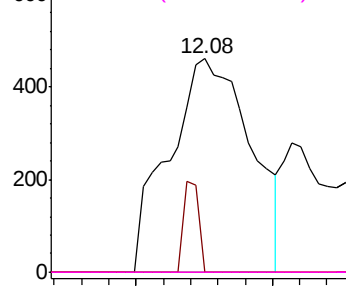


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 34.276 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056496.D

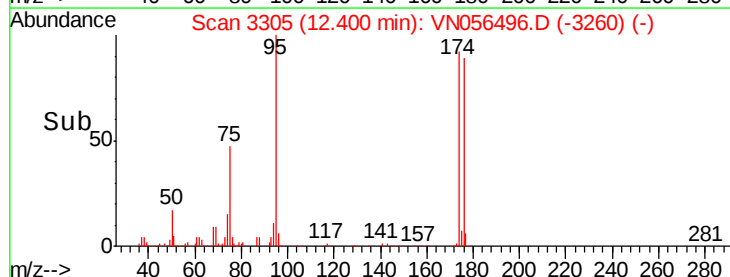
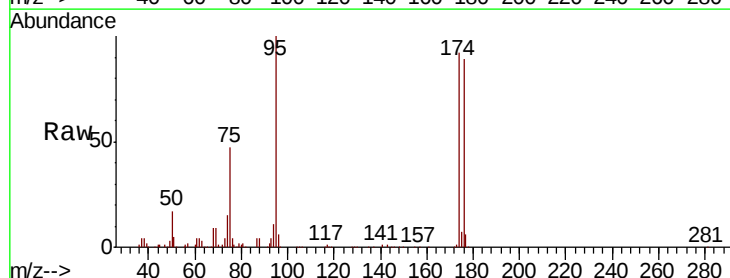
Acq: 26 Jun 2019 11:16

Tgt Ion: 75 Resp: 97025

Ion Ratio Lower Upper

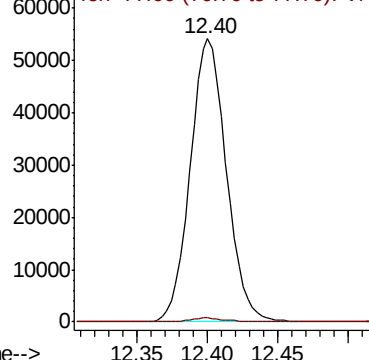
75 100

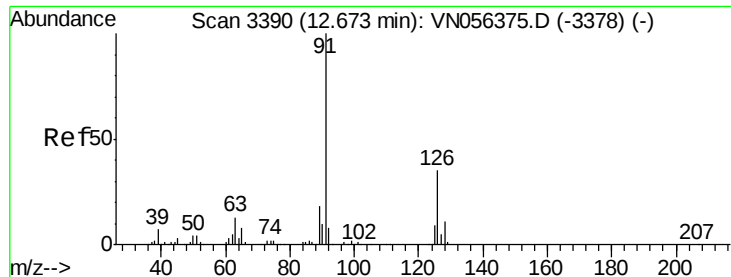
77 1.2 0.0 0.0#



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: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

Instrument :

MSVOA_N

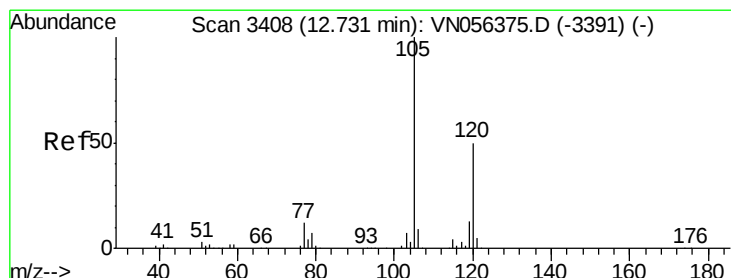
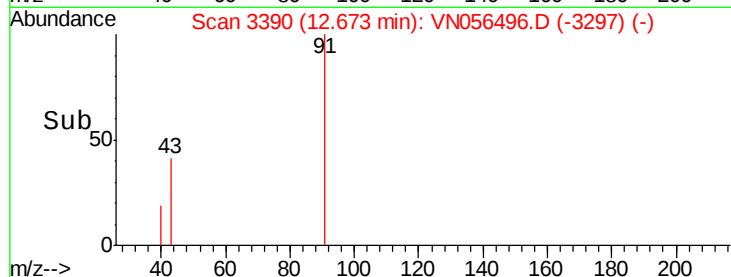
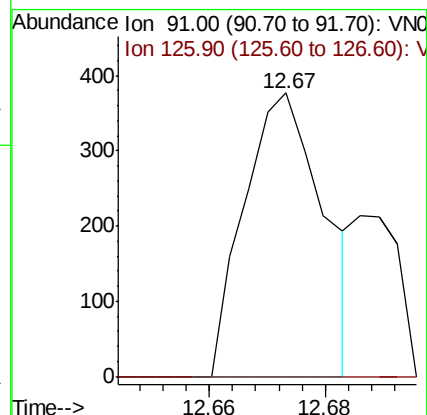
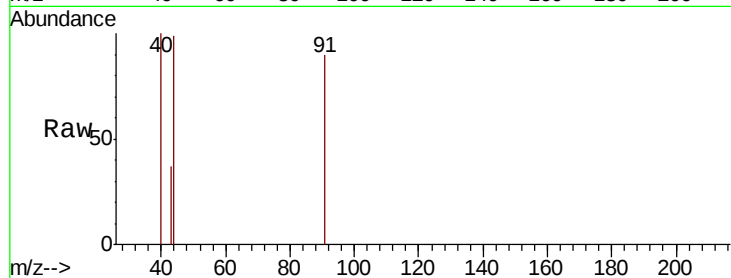
ClientSampled :

Tot Ion: 91 Resp: 356

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN056496.D

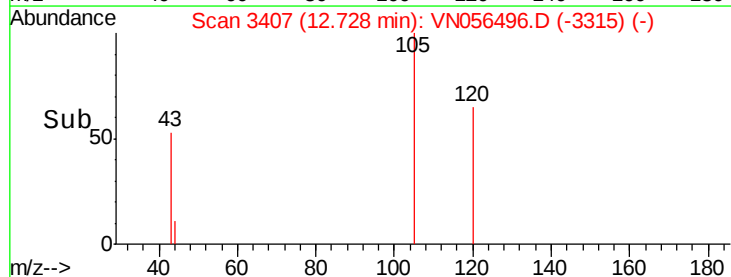
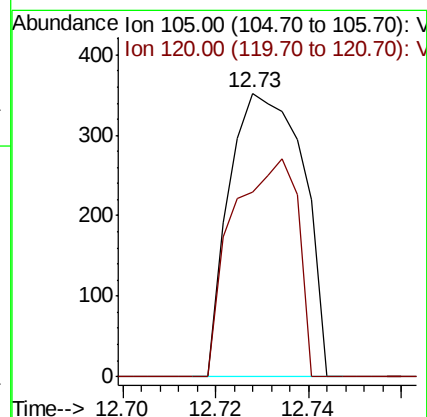
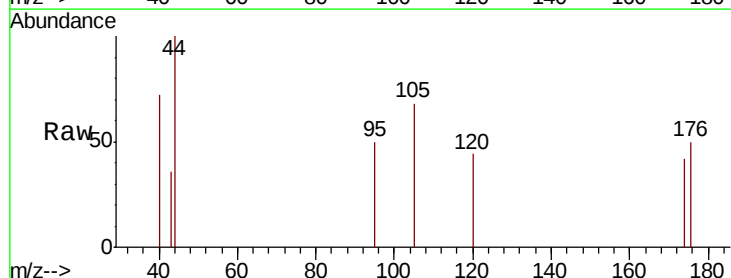
Acq: 26 Jun 2019 11:16

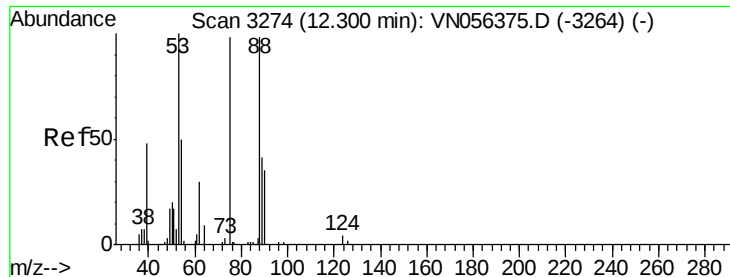
Tgt Ion: 105 Resp: 390

Ion Ratio Lower Upper

105 100

120 67.9 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 121.823 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

Instrument :

MSVOA_N

ClientSampleId :

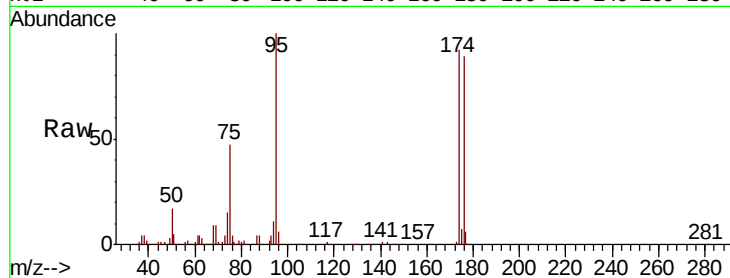
Tot Ion: 75 Resp: 97025

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

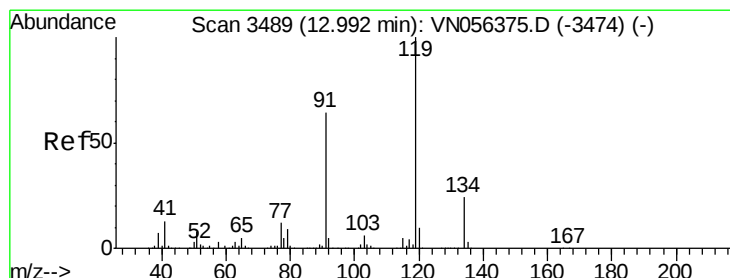
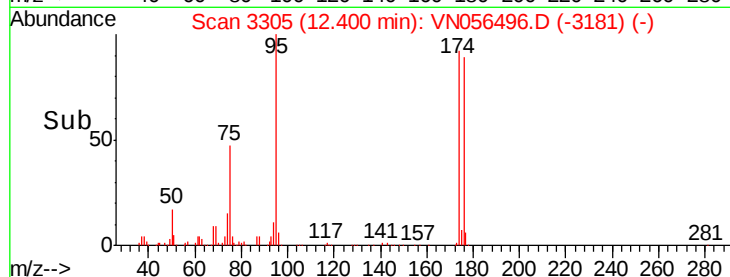
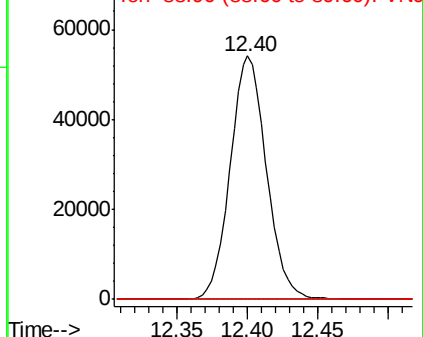
89 0.0 35.0 52.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056375.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN056375.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN056375.D (-3264) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

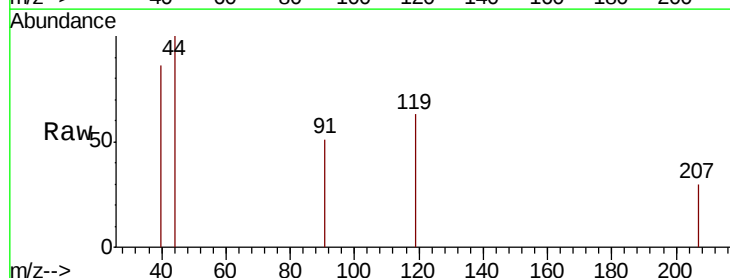
Tgt Ion: 119 Resp: 439

Ion Ratio Lower Upper

119 100

91 66.7 31.6 94.7

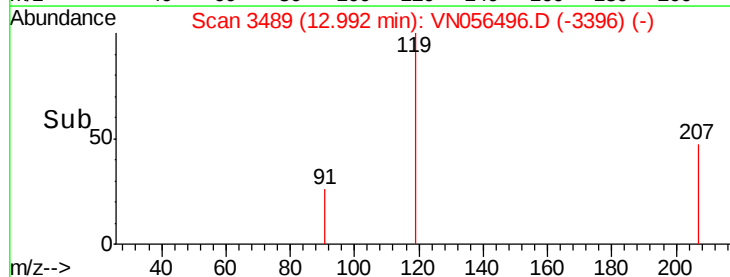
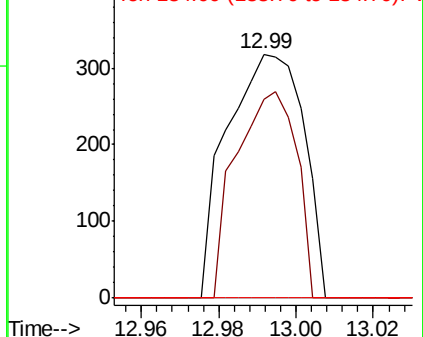
134 0.0 13.2 39.5#

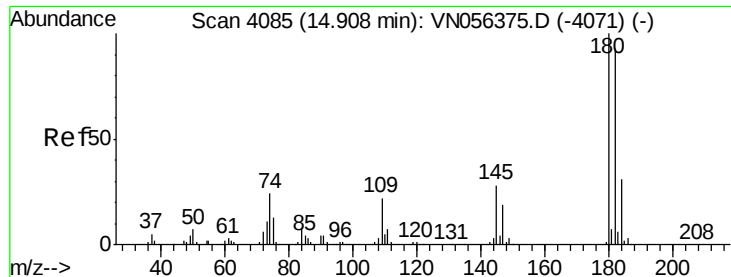


Abundance Ion 119.00 (118.70 to 119.70): VN056375.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN056375.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN056375.D (-3474) (-)

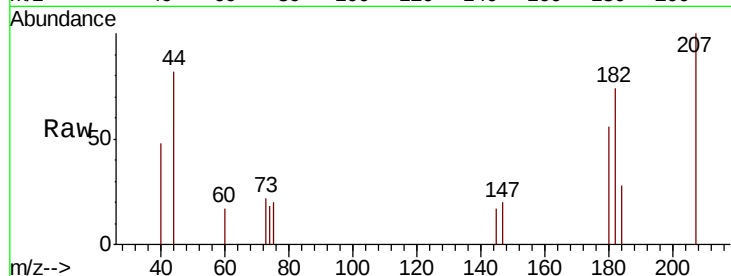




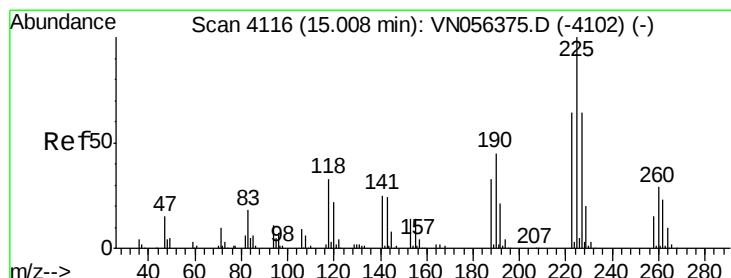
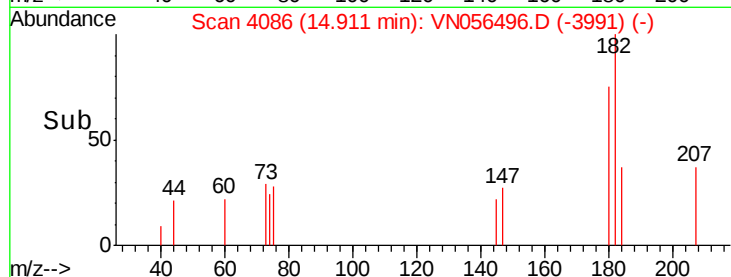
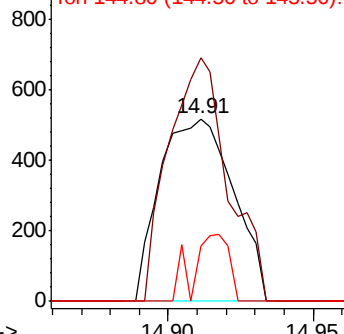
#93
 1,2,4-Trichlorobenzene
 Concen: 5.952 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN056496.D
 Acq: 26 Jun 2019 11:16

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 911
 Ion Ratio Lower Upper
 180 100
 182 107.7 46.9 140.6
 145 18.0 14.4 43.0

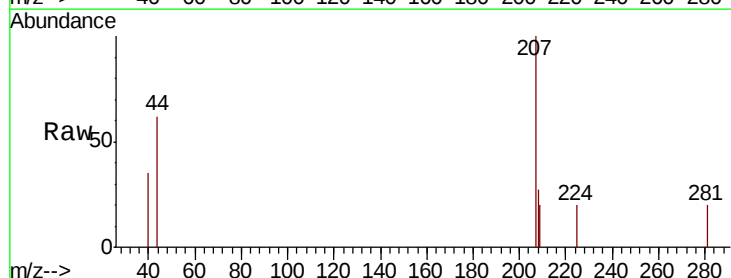


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

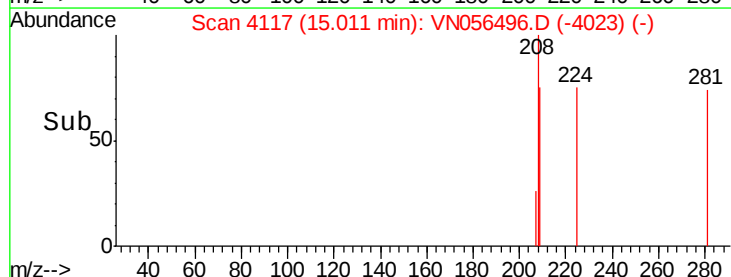
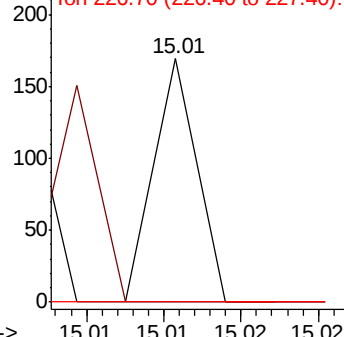


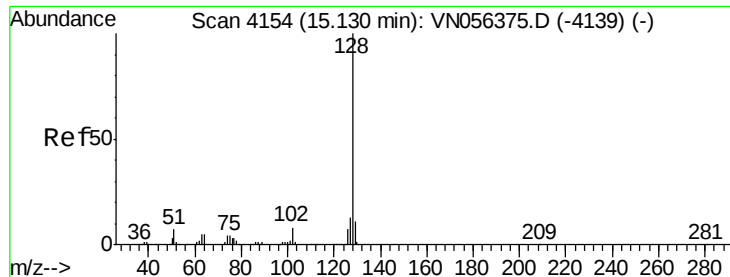
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056496.D
 Acq: 26 Jun 2019 11:16

Tgt Ion:225 Resp: 33
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.4 94.3#
 227 0.0 32.1 96.3#



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: 5.608 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

Instrument :

MSVOA_N

ClientSampleId :

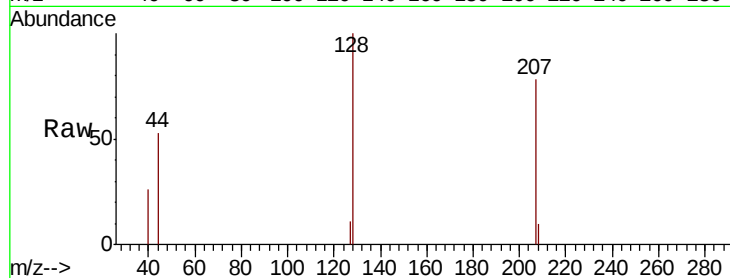
Tot Ion:128 Resp: 2532

Ion Ratio Lower Upper

128 100

127 4.8 10.2 15.2#

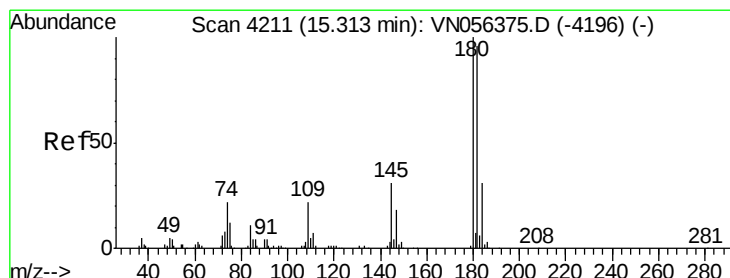
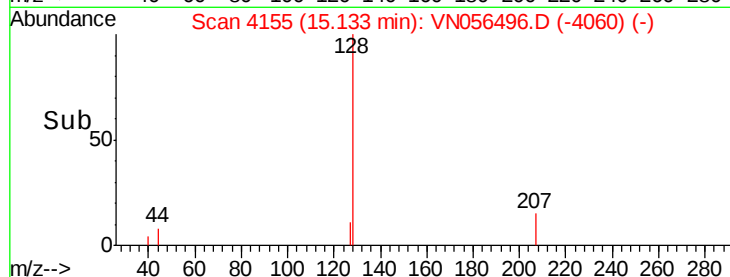
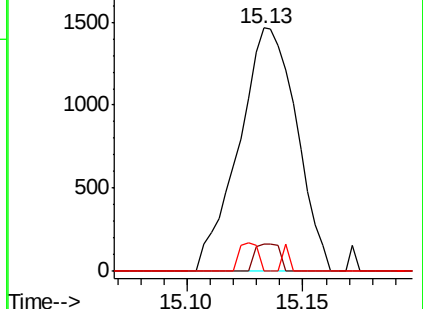
129 3.8 8.6 12.8#



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: 5.083 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056496.D

Acq: 26 Jun 2019 11:16

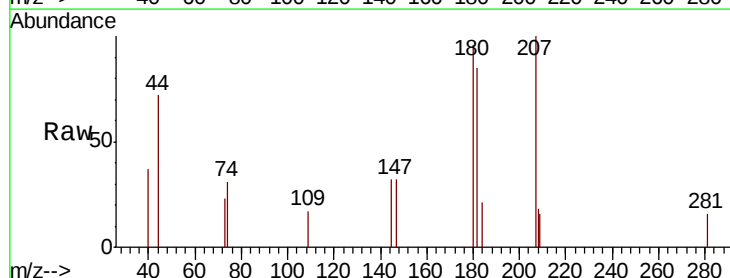
Tgt Ion:180 Resp: 1637

Ion Ratio Lower Upper

180 100

182 95.5 48.3 144.8

145 23.6 15.4 46.1



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

