

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056736.D
 Acq On : 16 Jul 2019 1:21
 Operator : JC/SP
 Sample : K3814-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LA119SW005-SW-190712

Quant Time: Jul 16 04:28:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	264383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	476620	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	498807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	196275	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	155480	53.17	ug/l	0.00
Spiked Amount						
			Recovery	=	106.34%	
35) Dibromofluoromethane	7.59	113	141917	47.85	ug/l	0.00
Spiked Amount						
			Recovery	=	95.70%	
50) Toluene-d8	10.09	98	590527	51.55	ug/l	0.00
Spiked Amount						
			Recovery	=	103.10%	
62) 4-Bromofluorobenzene	12.40	95	221229	57.26	ug/l	0.00
Spiked Amount						
			Recovery	=	114.52%	

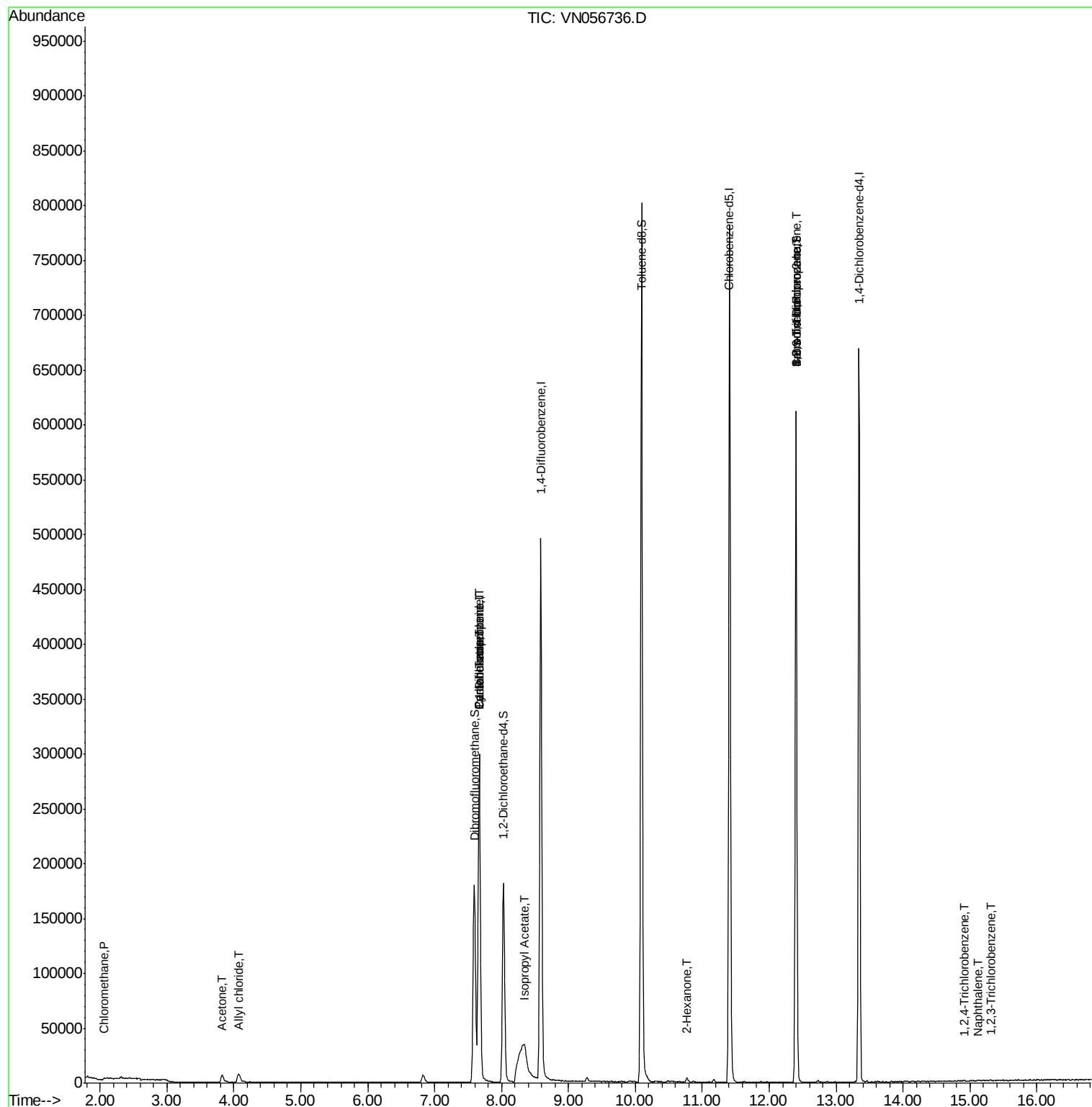
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	927	0.278	ug/l	88
14) Allyl chloride	4.08	41	1274	0.296	ug/l #	69
16) Acetone	3.82	43	13090	9.713	ug/l	96
18) Methyl Acetate	4.35	43	506	Below Cal	#	52
31) Cyclohexane	7.67	56	4239	0.907	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	17088	3.874	ug/l #	49
38) Carbon Tetrachloride	7.66	117	22751	5.501	ug/l #	16
43) Isopropyl Acetate	8.33	43	103641	15.166	ug/l #	53
59) 2-Hexanone	10.77	43	947	0.298	ug/l #	23
71) Bromoform	12.40	173	1823	0.638	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	103171	24.033	ug/l #	100
79) 2-Chlorotoluene	12.67	91	71	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	103171	74.223	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	154	3.729	ug/l #	20
94) Hexachlorobutadiene	15.00	225	31	Below Cal	#	18
95) Naphthalene	15.13	128	749	4.590	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	95	3.346	ug/l #	79

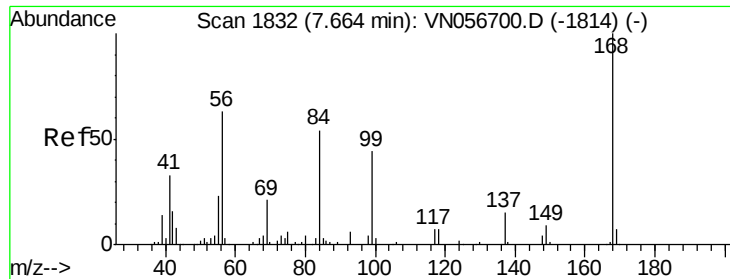
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056736.D

Acq: 16 Jul 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

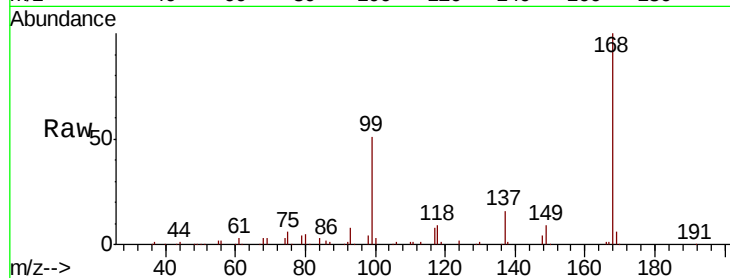
LA119SW005-SW-190712

Tot Ion:168 Resp: 264383

Ion Ratio Lower Upper

168 100

99 50.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN056736.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056736.D (-1739) (-)

7.67

120000

100000

80000

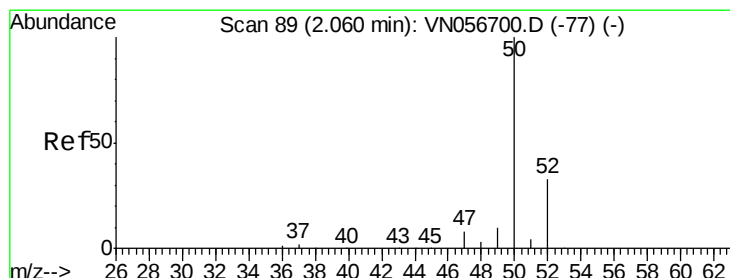
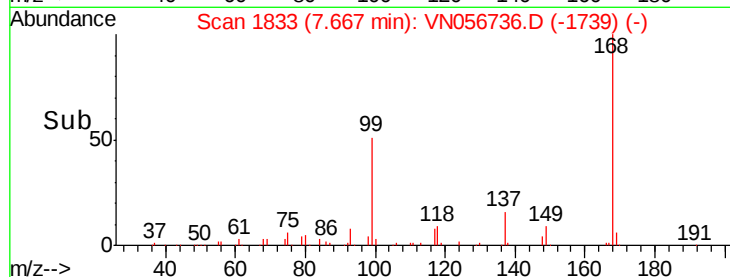
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: 0.278 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN056736.D

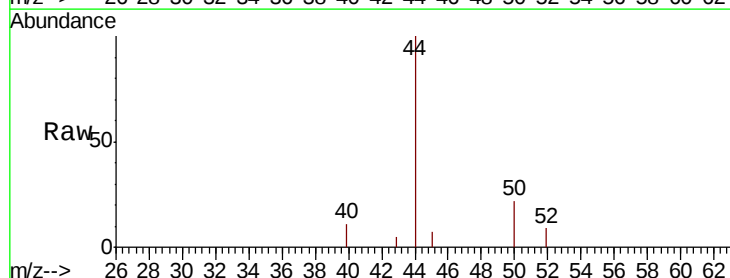
Acq: 16 Jul 2019 1:21

Tgt Ion: 50 Resp: 927

Ion Ratio Lower Upper

50 100

52 39.7 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VN056736.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN056736.D (-1) (-)

2.06

800

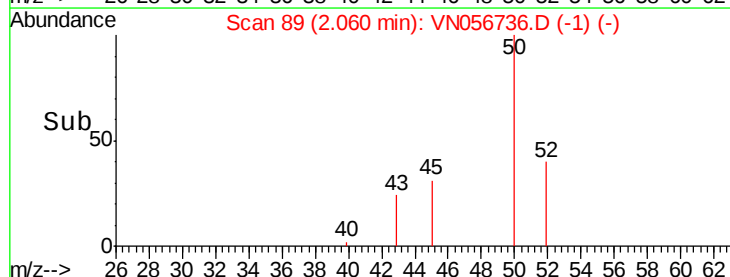
600

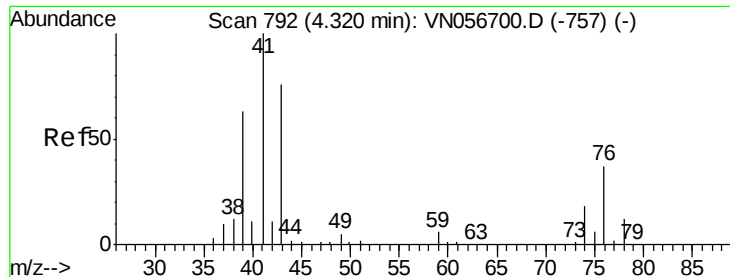
400

200

0

Time--> 2.02 2.04 2.06 2.08

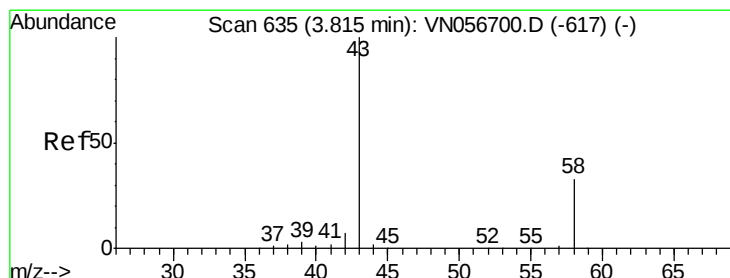
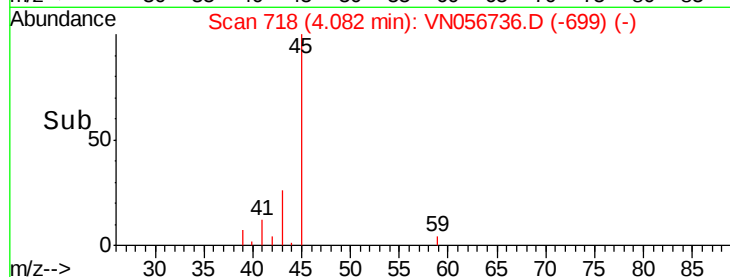
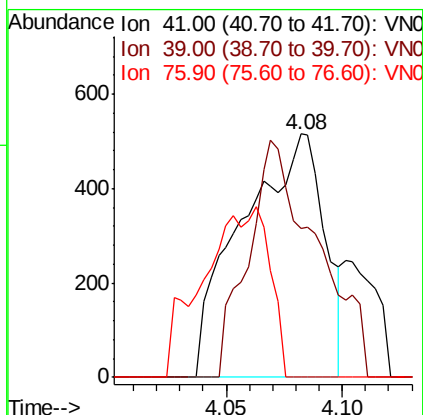
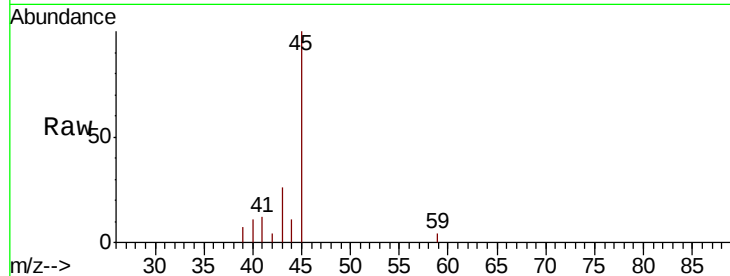




#14
Allvl chloride
Concen: 0.296 ug/l
RT: 4.08 min Scan# 718
Delta R.T. -0.24 min
Lab File: VN056736.D
Acq: 16 Jul 2019 1:21

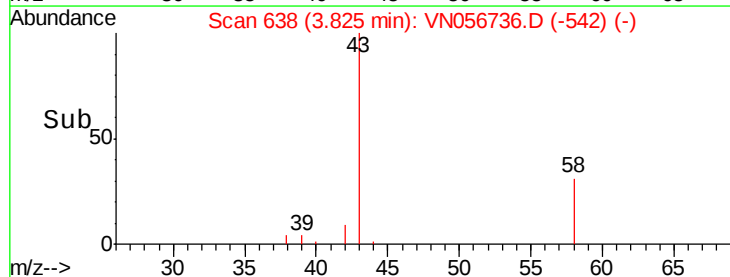
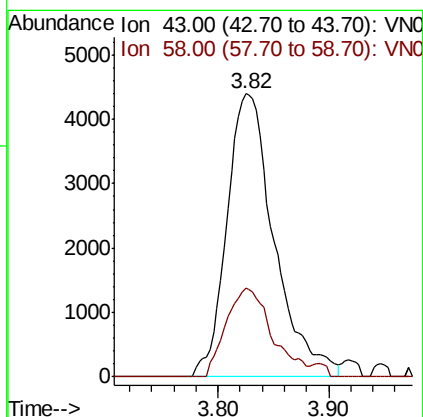
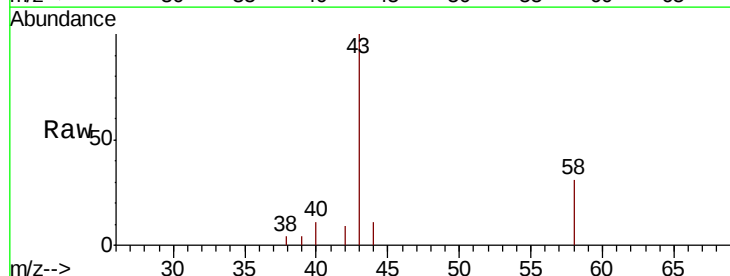
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LA119SW005-SW-190712

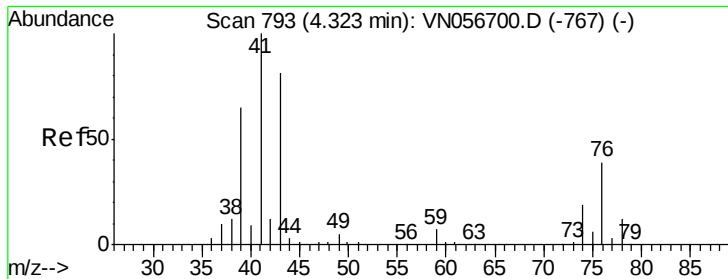
Tot Ion: 41 Resp: 1274
Ion Ratio Lower Upper
41 100
39 81.2 46.9 70.3#
76 51.7 26.5 39.7#



#16
Acetone
Concen: 9.713 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN056736.D
Acq: 16 Jul 2019 1:21

Tgt Ion: 43 Resp: 13090
Ion Ratio Lower Upper
43 100
58 31.3 26.7 40.1

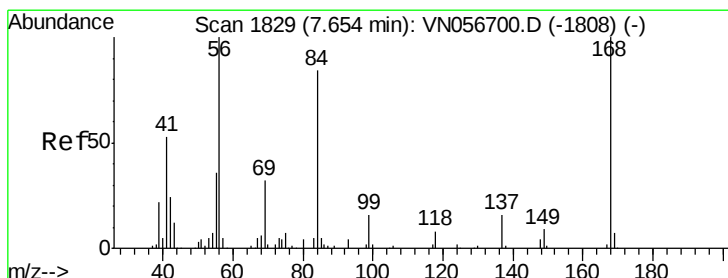
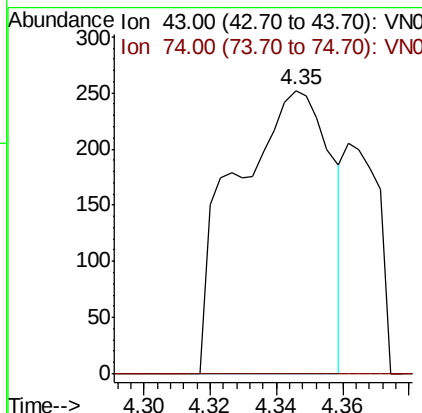
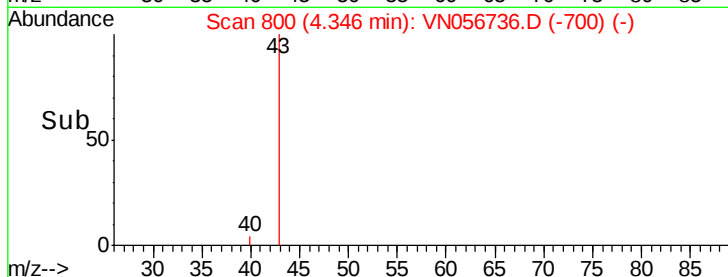
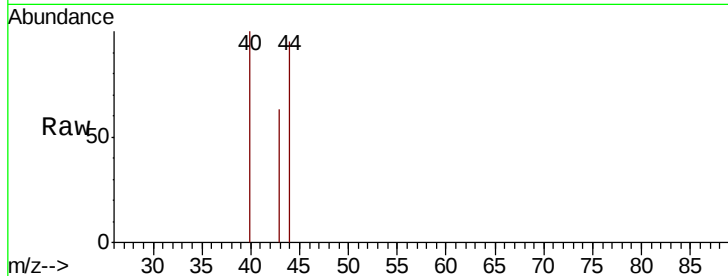




#18
Methyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 800
Delta R.T. 0.02 min
Lab File: VN056736.D
Acq: 16 Jul 2019 1:21

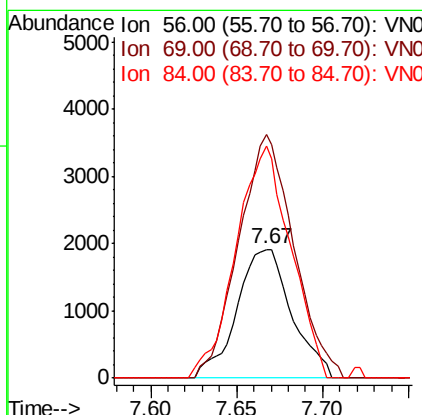
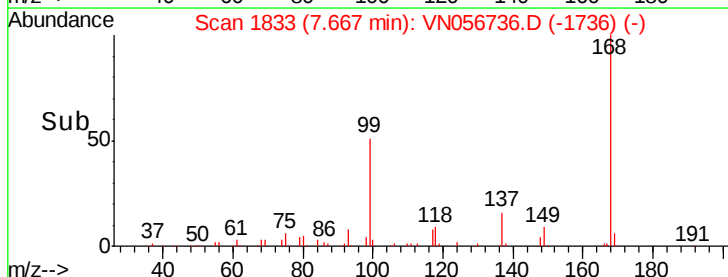
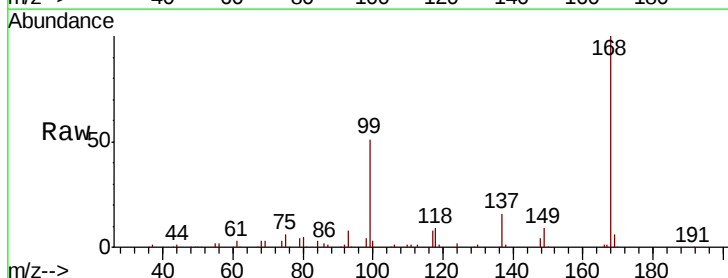
Instrument :
MSVOA_N
ClientSampleId :
LA119SW005-SW-190712

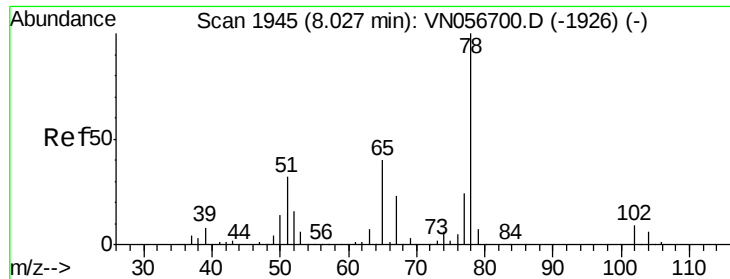
Tot Ion: 43 Resp: 506
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#31
Cyclohexane
Concen: 0.907 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056736.D
Acq: 16 Jul 2019 1:21

Tgt Ion: 56 Resp: 4239
Ion Ratio Lower Upper
56 100
69 188.9 25.8 38.8#
84 180.2 67.4 101.0#

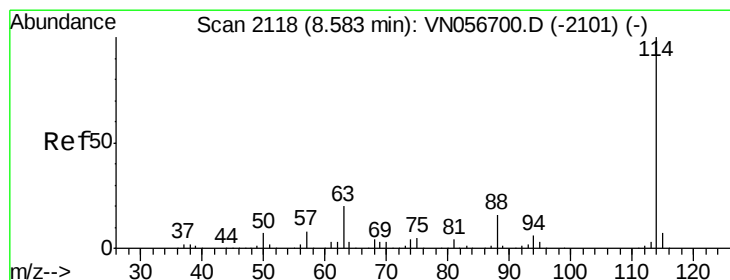
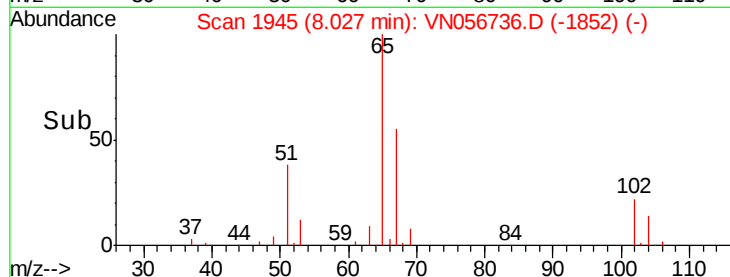
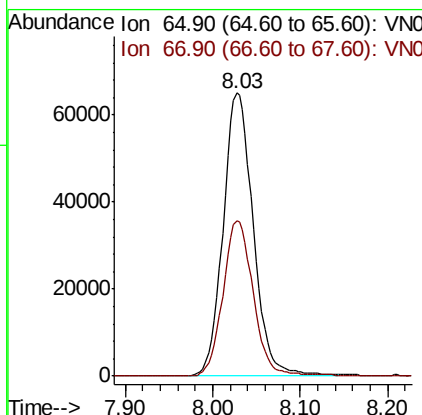
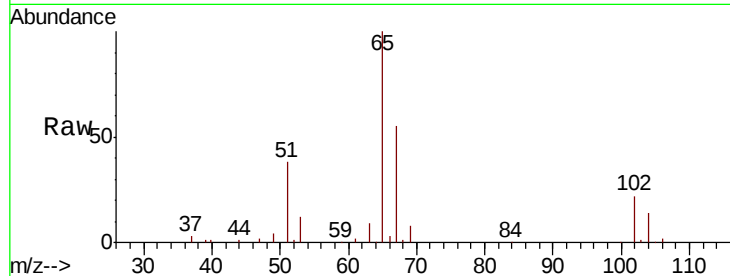




#33
 1,2-Dichloroethane-d4
 Concen: 53.166 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056736.D
 Acq: 16 Jul 2019 1:21

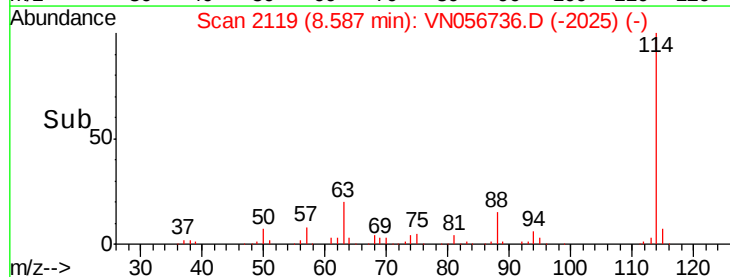
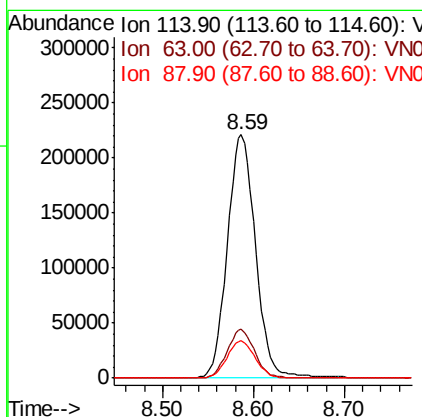
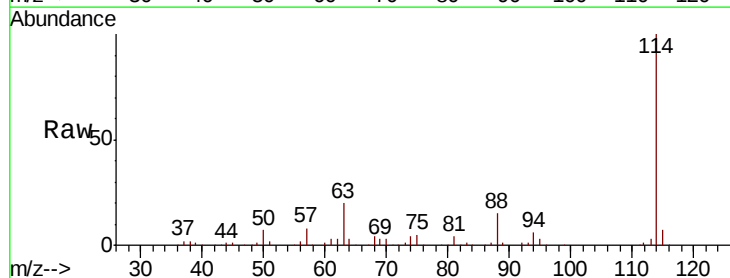
Instrument :
 MSVOA_N
 ClientSampleId :
 LA119SW005-SW-190712

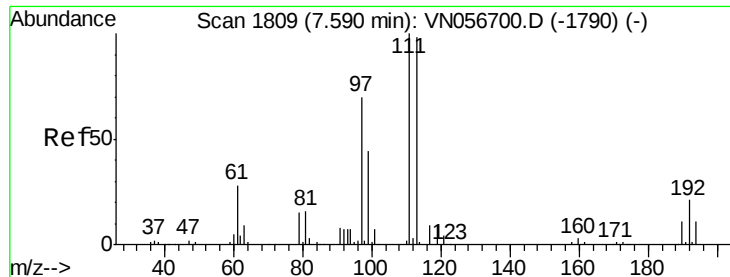
Tot Ion: 65 Resp: 155480
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056736.D
 Acq: 16 Jul 2019 1:21

Tgt Ion: 114 Resp: 476620
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.4
 88 15.2 0.0 31.2

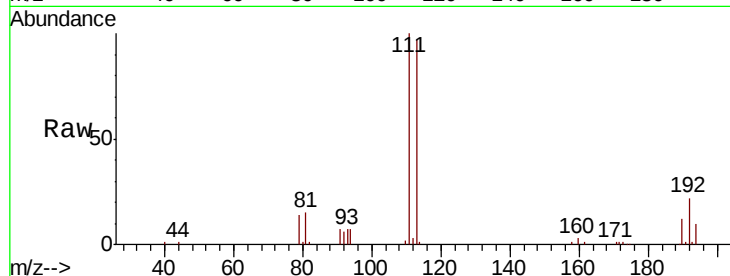




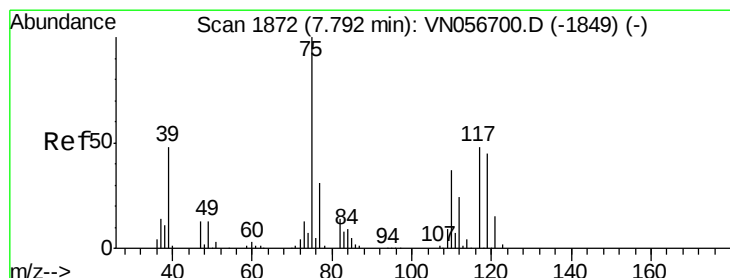
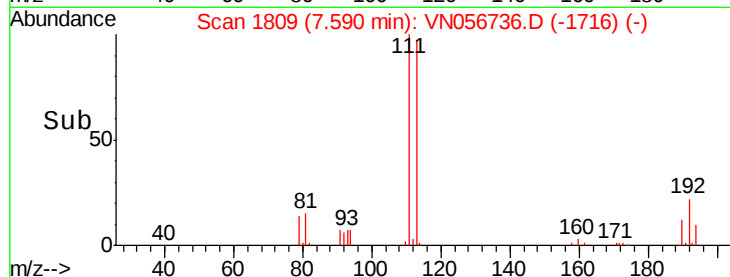
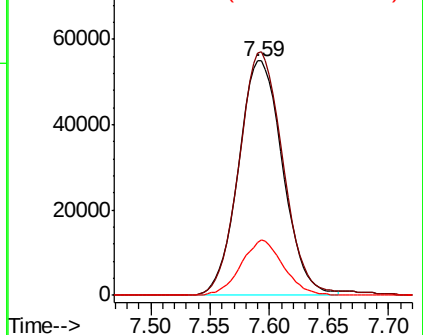
#35
 Dibromofluoromethane
 Concen: 47.846 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056736.D
 Acq: 16 Jul 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 LA119SW005-SW-190712

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	22.5	17.5	26.3

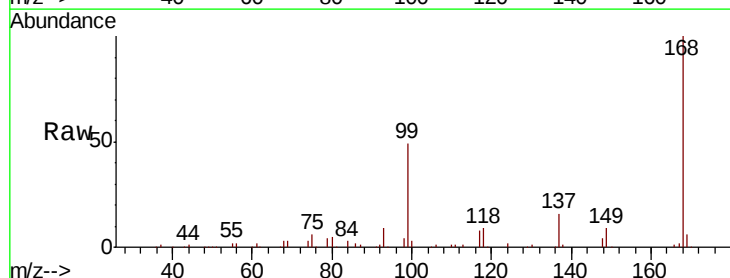


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

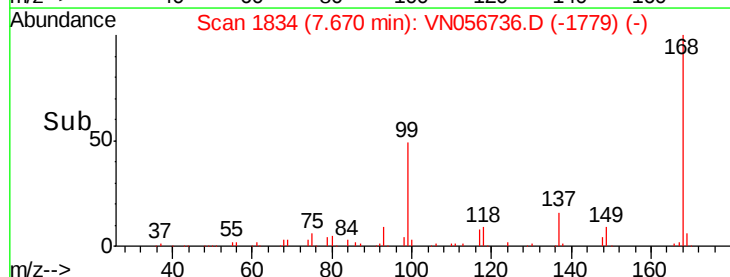
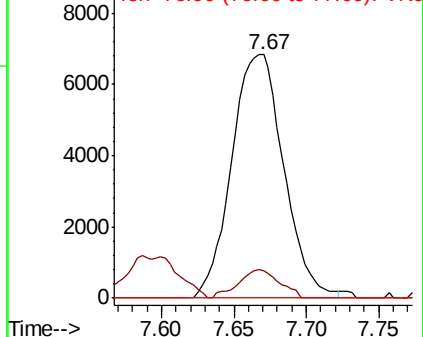


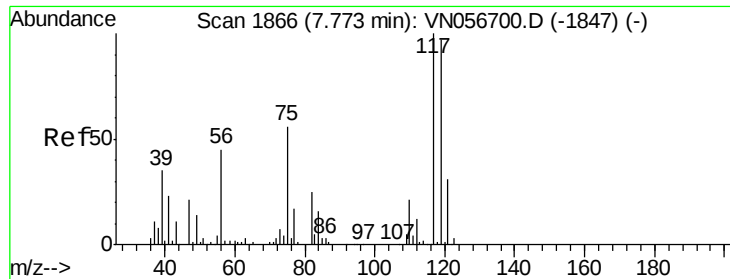
#36
 1,1-Dichloropropene
 Concen: 3.874 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN056736.D
 Acq: 16 Jul 2019 1:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.4	55.4#
77	0.0	24.6	36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.501 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

Instrument :

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LA119SW005-SW-190712

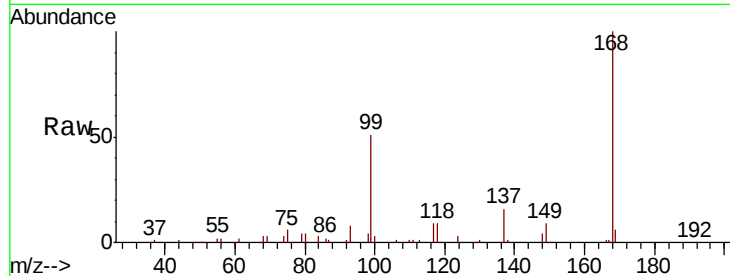
Tot Ion:117 Resp: 22751

Ion Ratio Lower Upper

117 100

119 5.7 77.5 116.3#

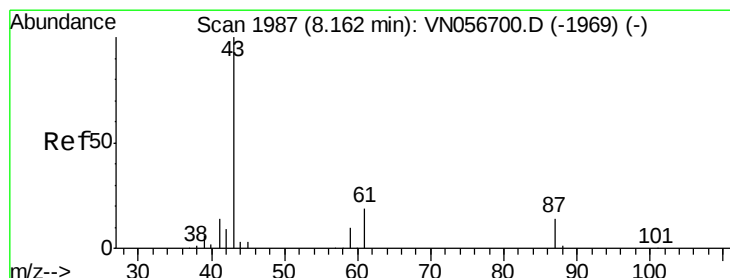
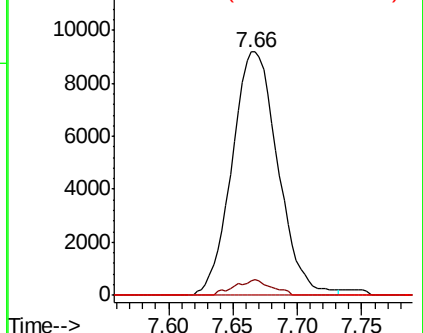
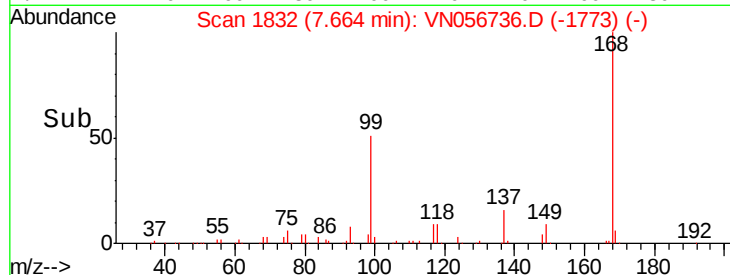
121 0.0 24.7 37.1#



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: 15.166 ug/l

RT: 8.33 min Scan# 2038

Delta R.T. 0.16 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

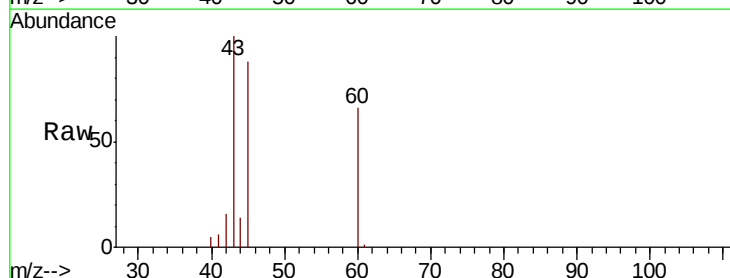
Tgt Ion: 43 Resp: 103641

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

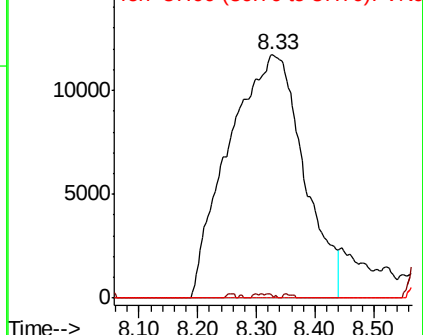
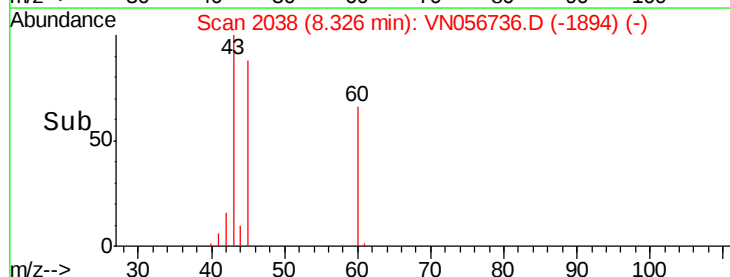
87 0.0 11.1 16.7#

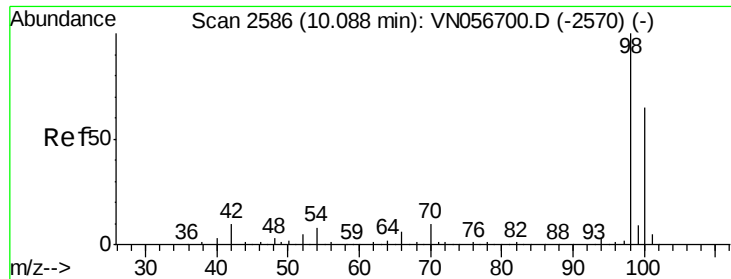


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 51.548 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

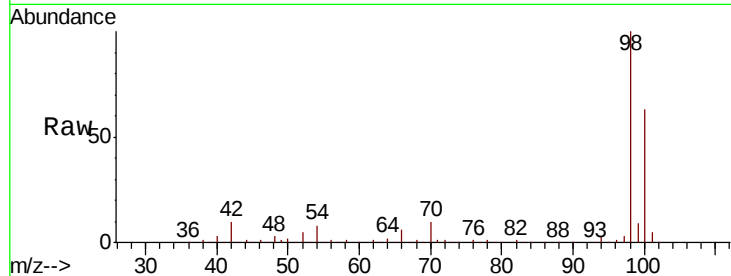
LA119SW005-SW-190712

Tot Ion: 98 Resp: 590527

Ion Ratio Lower Upper

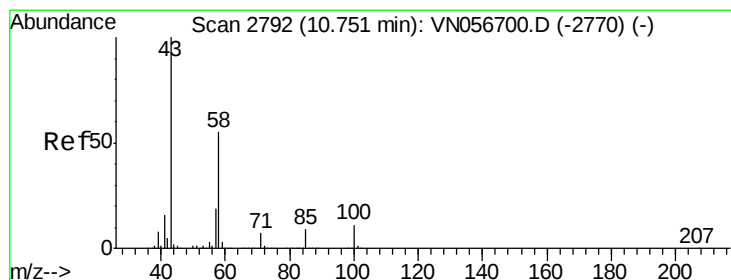
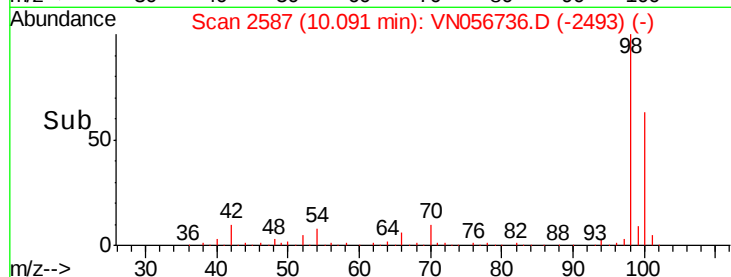
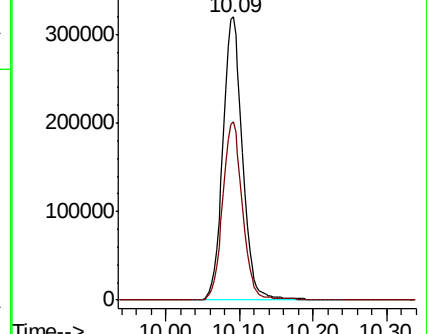
98 100

100 63.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 0.298 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN056736.D

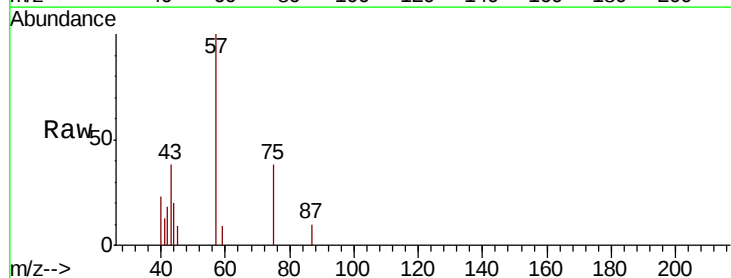
Acq: 16 Jul 2019 1:21

Tgt Ion: 43 Resp: 947

Ion Ratio Lower Upper

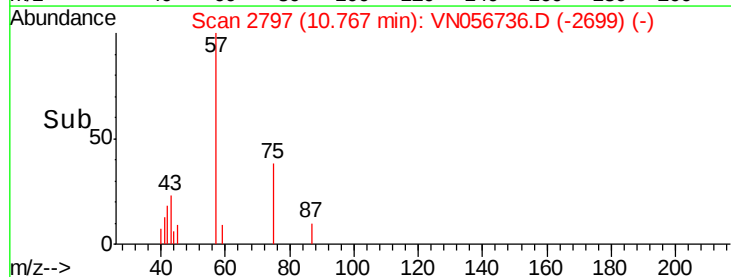
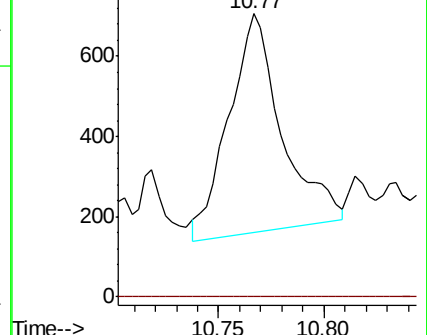
43 100

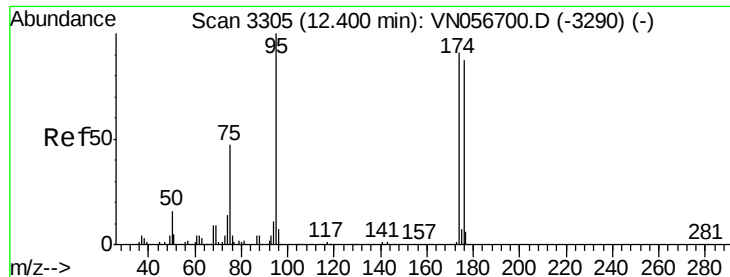
58 0.0 27.9 83.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 57.265 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

LA119SW005-SW-190712

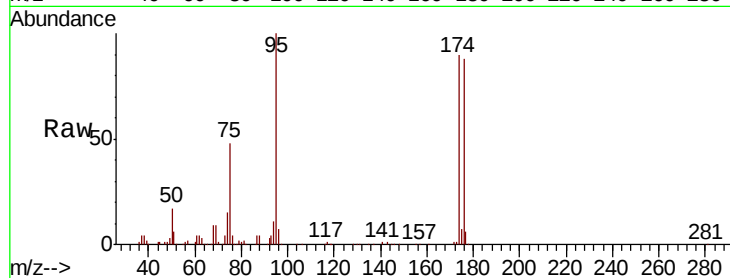
Tot Ion: 95 Resp: 221229

Ion Ratio Lower Upper

95 100

174 89.7 0.0 180.0

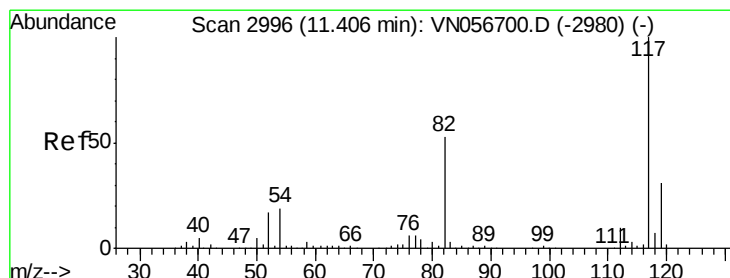
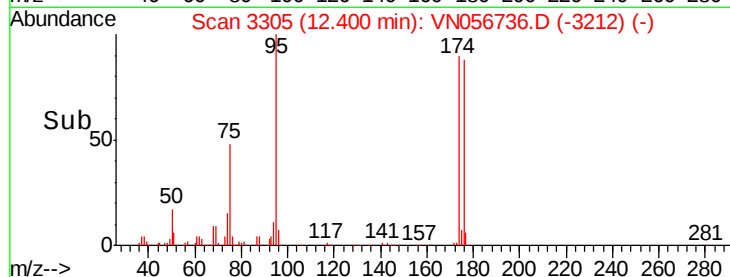
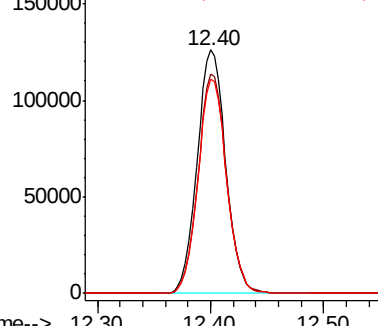
176 87.9 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

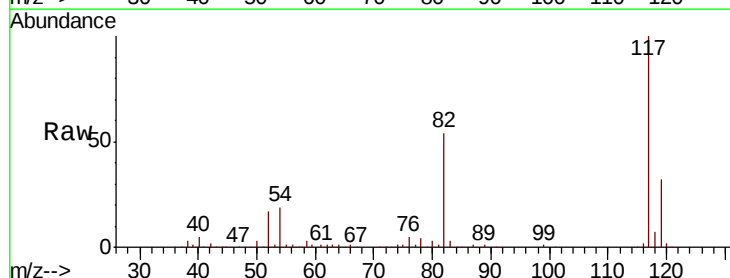
Tgt Ion: 117 Resp: 498807

Ion Ratio Lower Upper

117 100

82 53.5 42.2 63.2

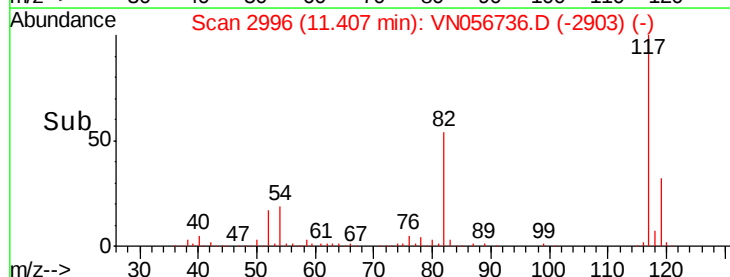
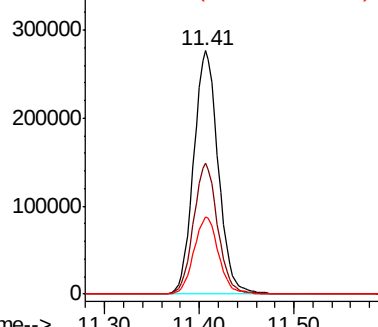
119 31.6 25.2 37.8

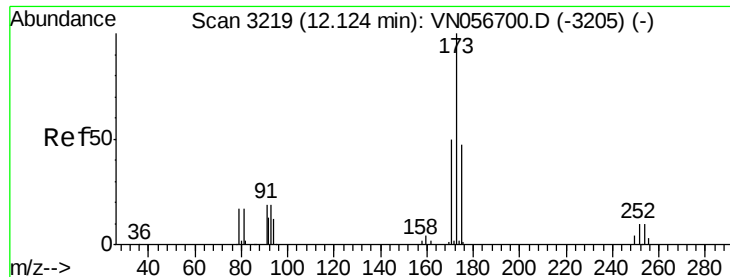


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

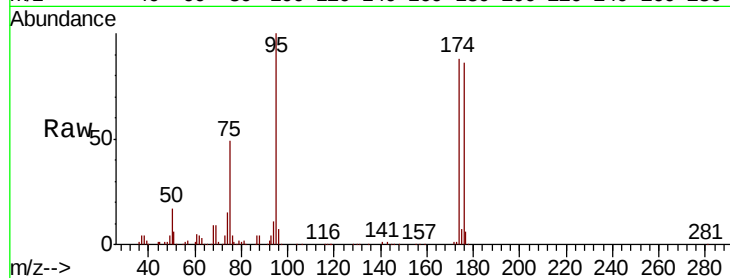




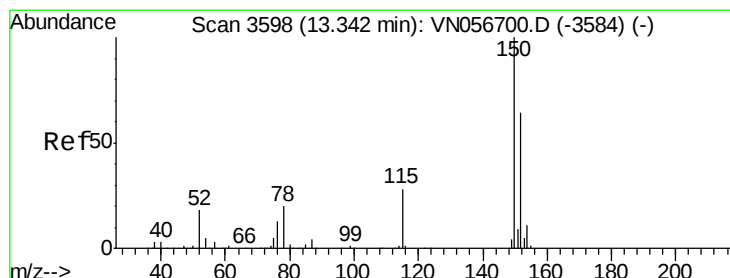
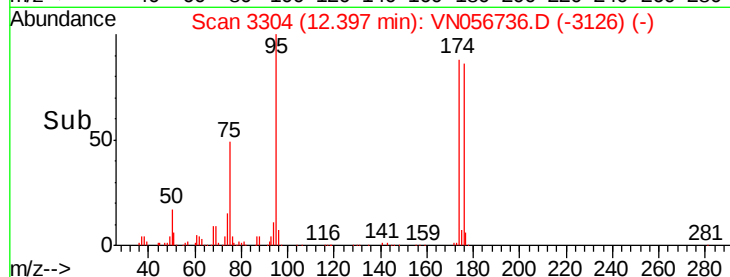
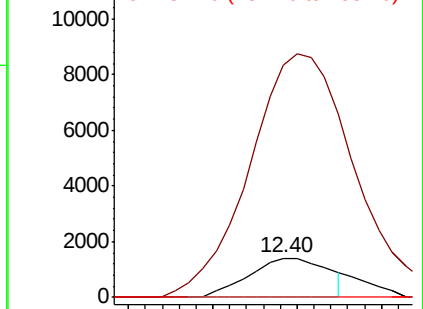
#71
Bromoform
Concen: 0.638 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056736.D
Acq: 16 Jul 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
LA119SW005-SW-190712

Tot Ion:173 Resp: 1823
Ion Ratio Lower Upper
173 100
175 666.4 23.8 71.4#
254 0.0 0.0 0.0

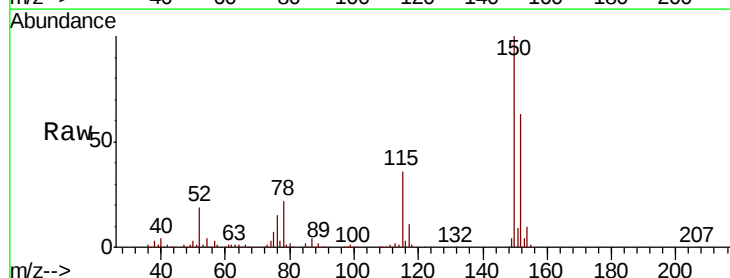


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

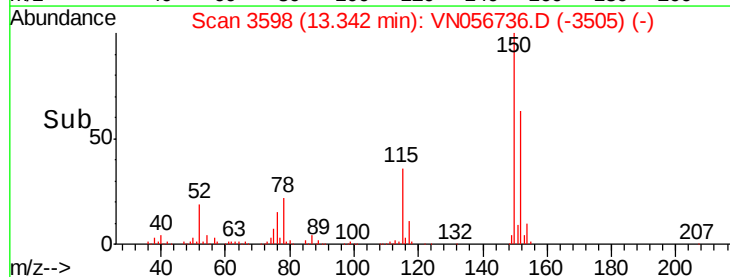
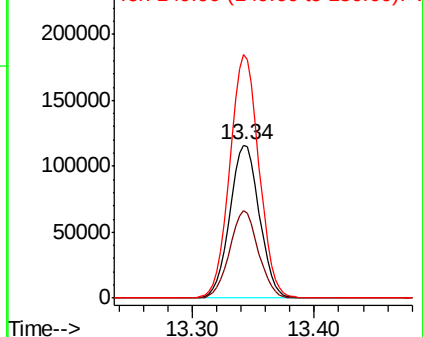


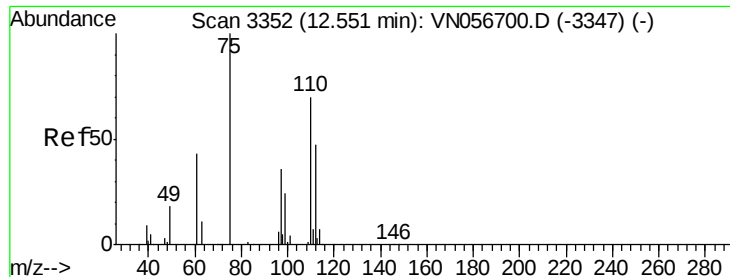
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056736.D
Acq: 16 Jul 2019 1:21

Tgt Ion:152 Resp: 196275
Ion Ratio Lower Upper
152 100
115 55.5 28.2 84.7
150 156.8 0.0 345.8



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





#76

1,2,3-Trichloropropane

Concen: 24.033 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

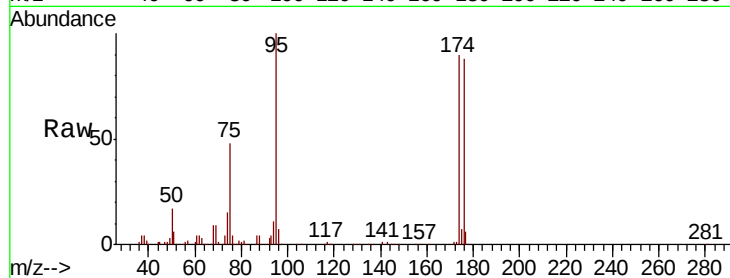
LA119SW005-SW-190712

Tot Ion: 75 Resp: 103171

Ion Ratio Lower Upper

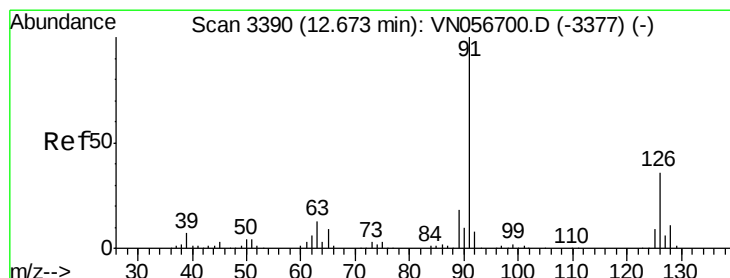
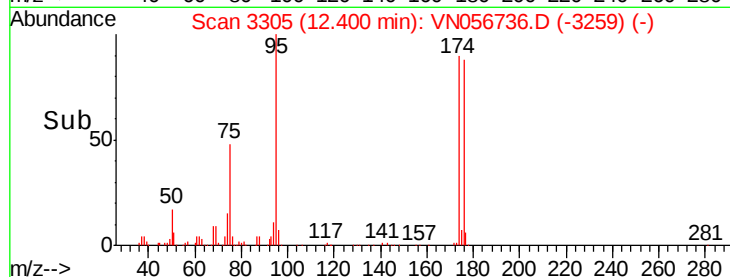
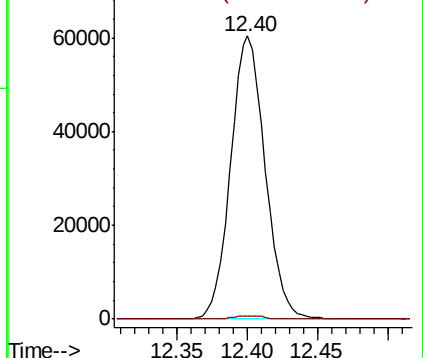
75 100

77 1.0 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# 3389

Delta R.T. -0.00 min

Lab File: VN056736.D

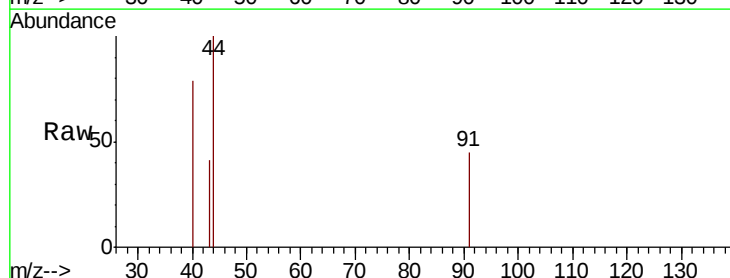
Acq: 16 Jul 2019 1:21

Tgt Ion: 91 Resp: 71

Ion Ratio Lower Upper

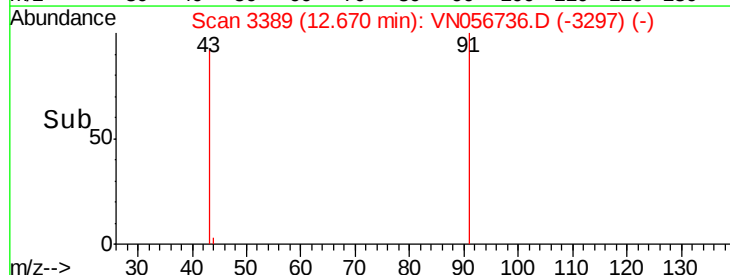
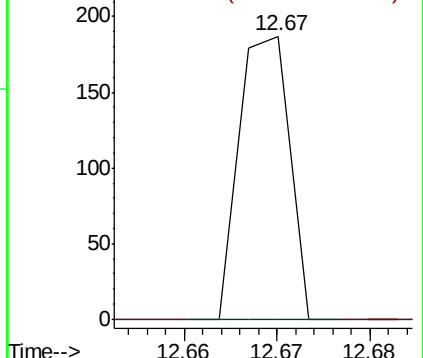
91 100

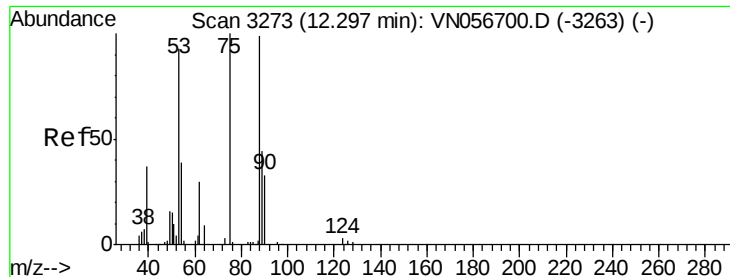
126 0.0 17.9 53.7#



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: 74.223 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

LA119SW005-SW-190712

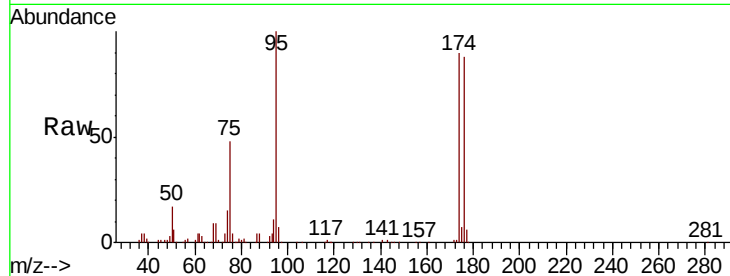
Tot Ion: 75 Resp: 103171

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

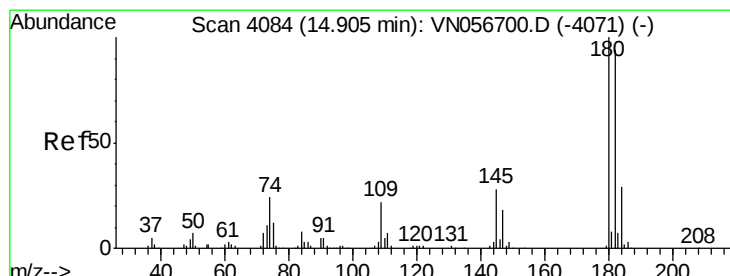
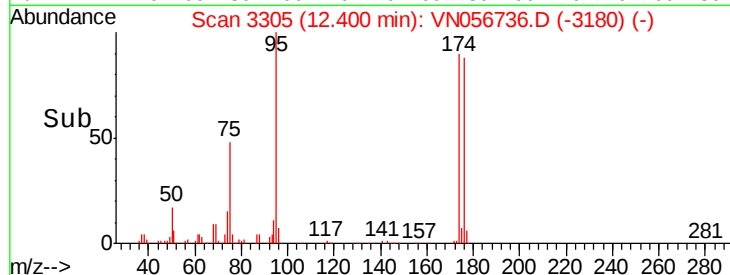
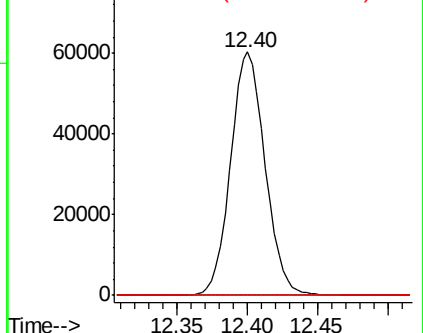
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 3.729 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

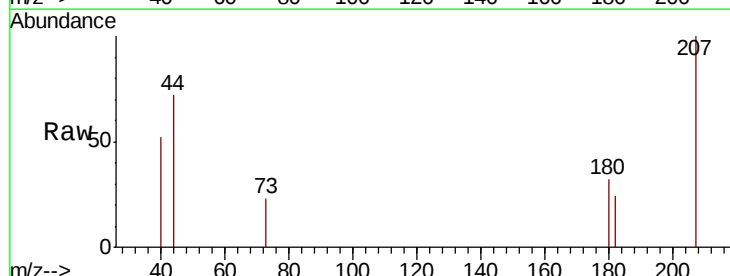
Tgt Ion: 180 Resp: 154

Ion Ratio Lower Upper

180 100

182 179.2 47.2 141.6#

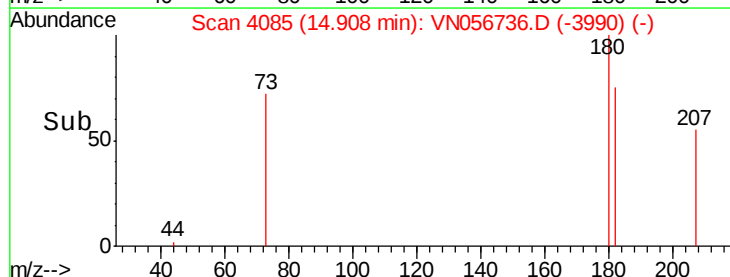
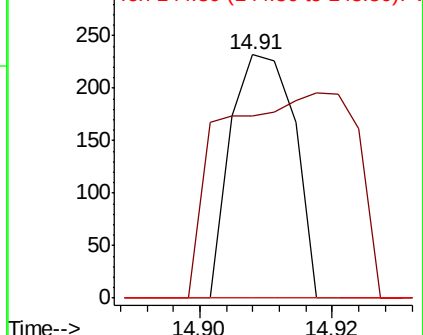
145 0.0 14.2 42.8#

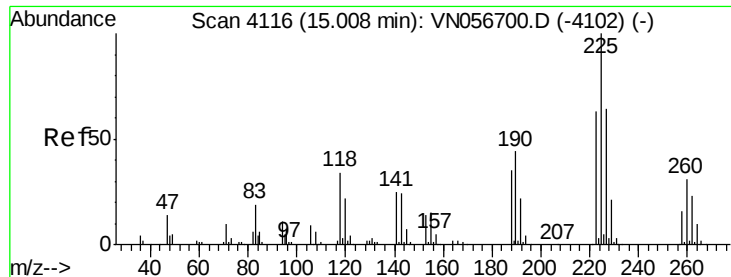


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

LA119SW005-SW-190712

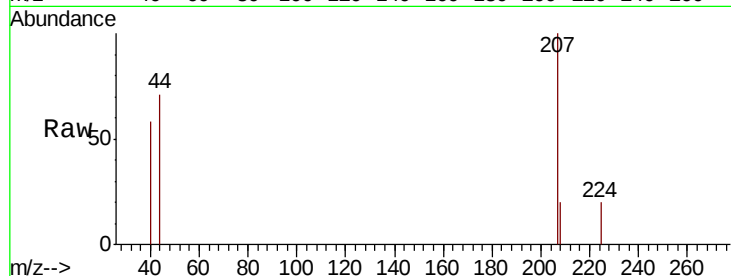
Tot Ion:225 Resp: 31

Ion Ratio Lower Upper

225 100

223 0.0 31.5 94.5#

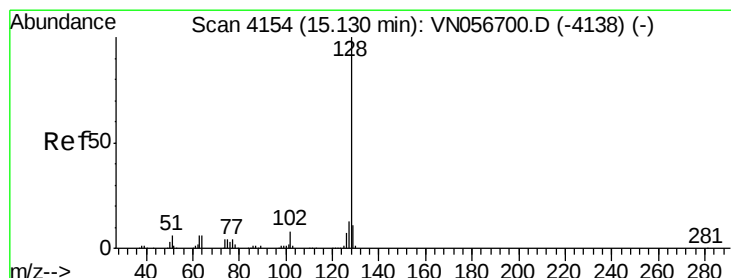
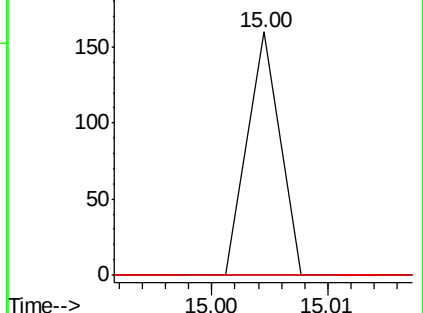
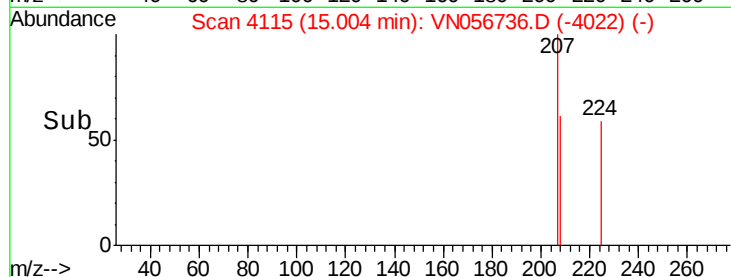
227 0.0 32.0 96.2#



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: 4.590 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN056736.D

Acq: 16 Jul 2019 1:21

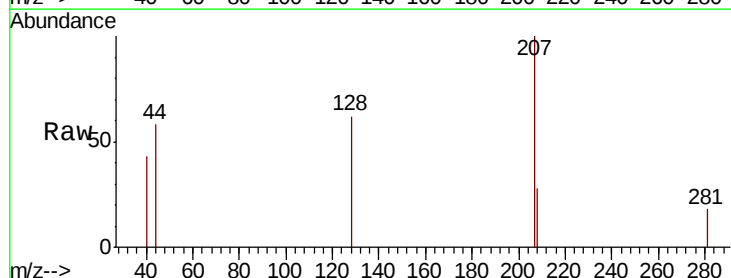
Tgt Ion:128 Resp: 749

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

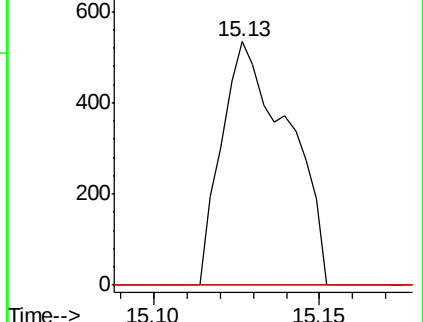
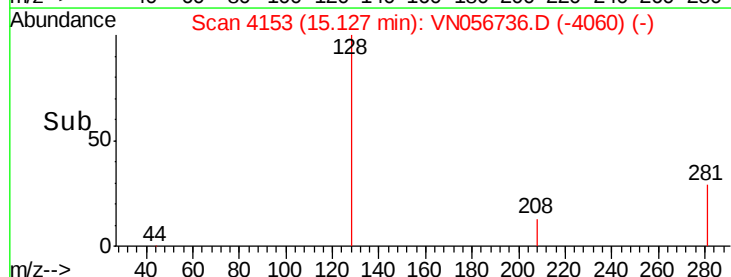
129 0.0 8.7 13.1#

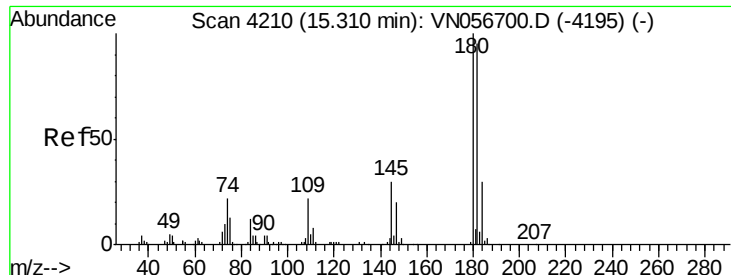


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.346 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056736.D
 Acq: 16 Jul 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 LA119SW005-SW-190712

Tot Ion	Ratio	Lower	Upper
180	100		
182	104.2	47.1	141.3
145	0.0	15.0	45.1

