

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040319\
 Data File : VN054933.D
 Acq On : 3 Apr 2019 19:05
 Operator : JC/SP
 Sample : K2180-09
 Misc : 3.79g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 04 01:13:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	477197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	785364	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	683169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	253761	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	309386	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	7.59	113	245050	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	10.09	98	952562	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	12.40	95	300863	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	

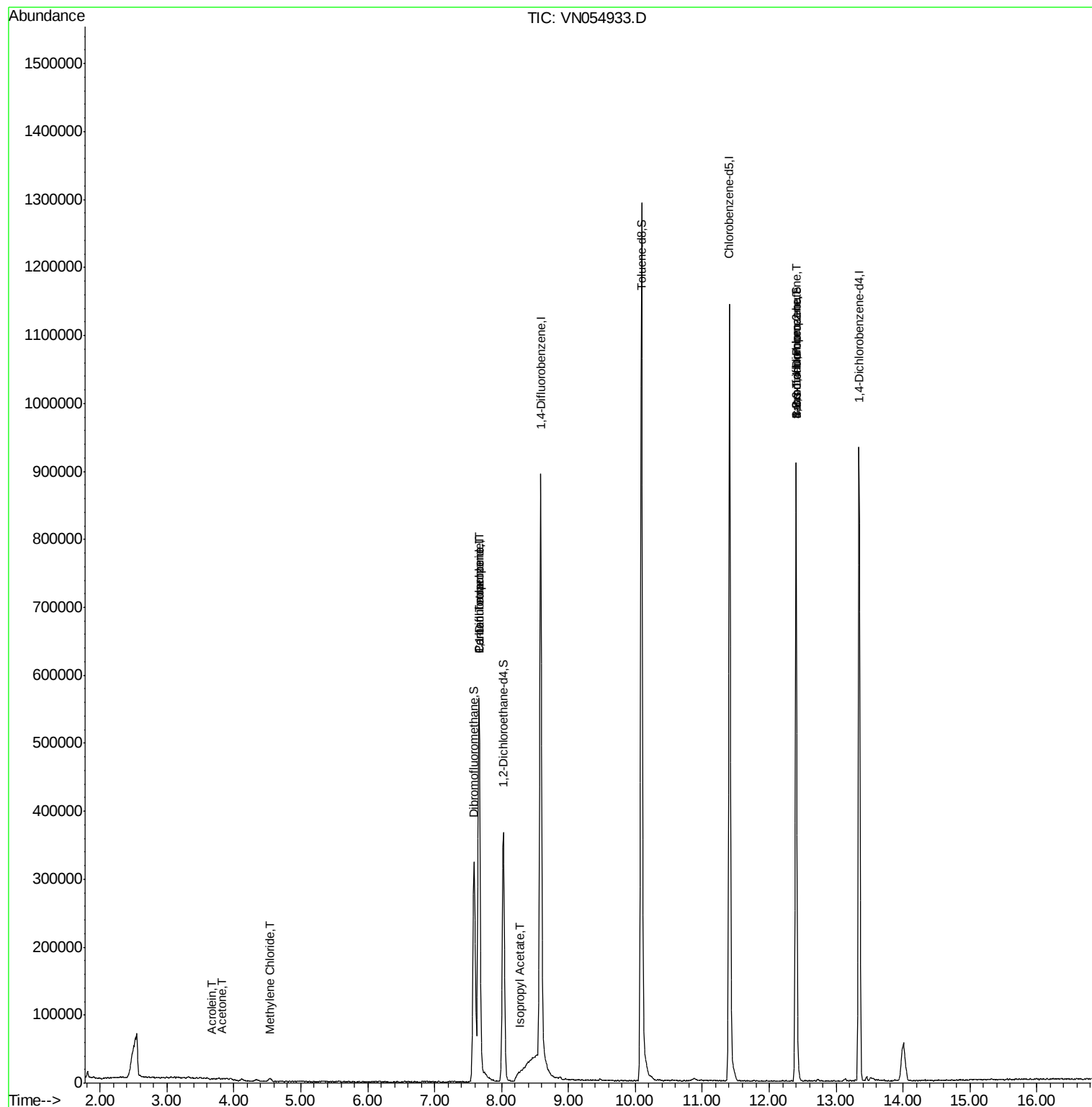
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	177	Below Cal	#	65
13) Acrolein	3.68	56	69	0.230	ug/l #	5
16) Acetone	3.83	43	413	0.269	ug/l #	38
18) Methyl Acetate	4.32	43	1760	Below Cal	#	83
20) Methylene Chloride	4.54	84	1992	0.368	ug/l #	87
31) Cyclohexane	7.66	56	10783	Below Cal	#	27
36) 1,1-Dichloropropene	7.66	75	37088	5.068	ug/l #	48
38) Carbon Tetrachloride	7.66	117	45364	6.382	ug/l #	16
43) Isopropyl Acetate	8.27	43	16478	1.890	ug/l #	60
71) Bromoform	12.40	173	2327	0.793	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	105	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	157313	35.685	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	157313	138.804	ug/l #	11
94) Hexachlorobutadiene	15.00	225	213	Below Cal	#	51

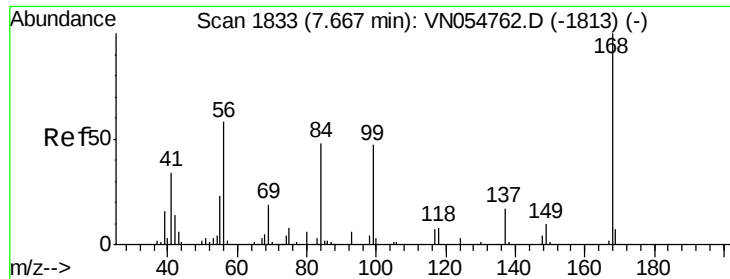
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

Instrument :

MSVOA_N

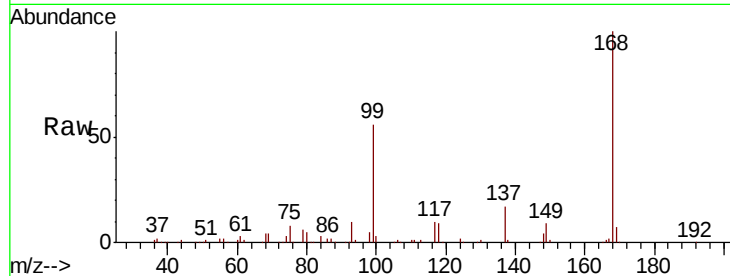
ClientSampled :

Tot Ion:168 Resp: 477197

Ion Ratio Lower Upper

168 100

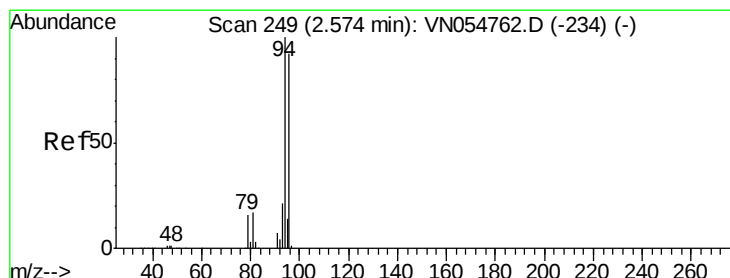
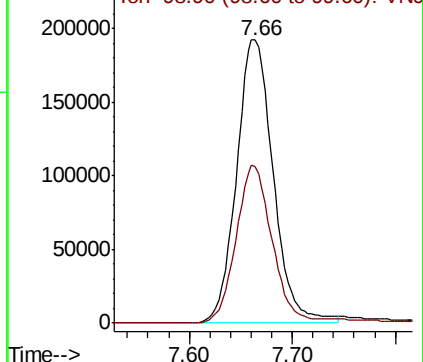
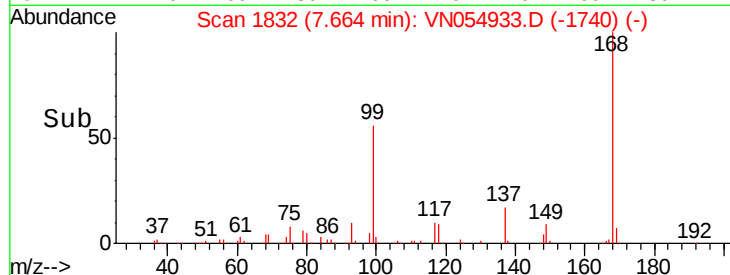
99 55.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054762.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054933.D (-1740) (-)

7.66



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. -0.02 min

Lab File: VN054933.D

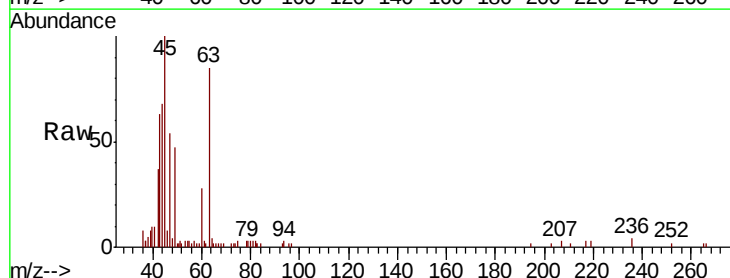
Acq: 3 Apr 2019 19:05

Tgt Ion: 94 Resp: 177

Ion Ratio Lower Upper

94 100

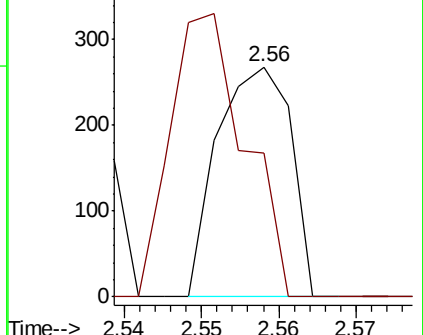
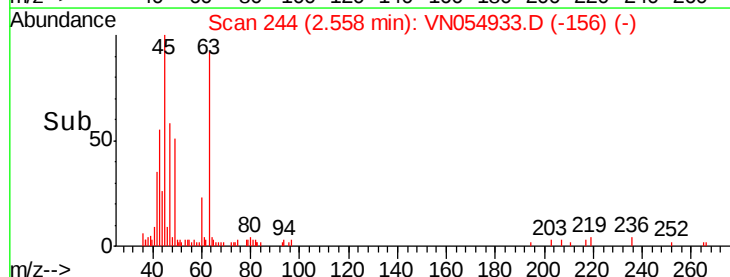
96 62.3 77.0 115.4#

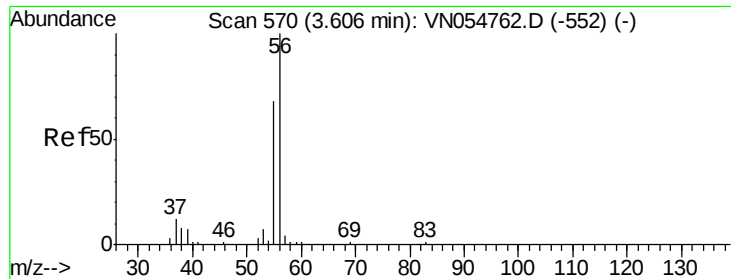


Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054933.D (-156) (-)

2.56





#13

Acrolein

Concen: 0.230 ug/l

RT: 3.68 min Scan# 593

Delta R.T. 0.07 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

Instrument :

MSVOA_N

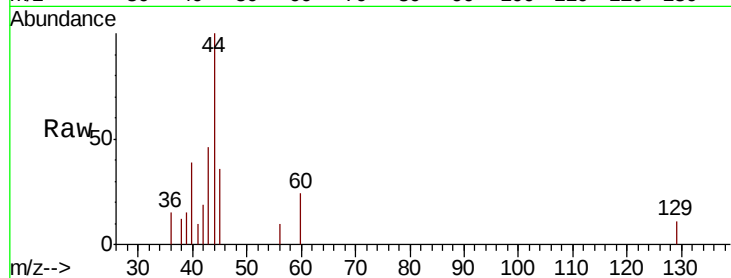
ClientSampled :

Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

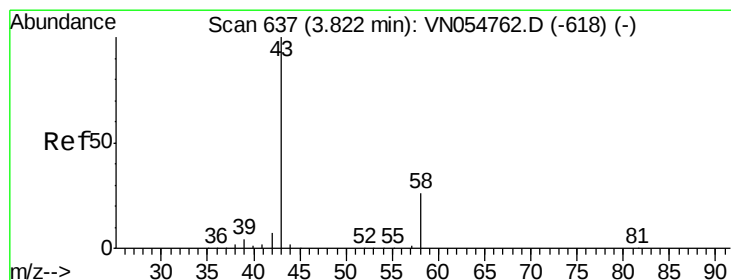
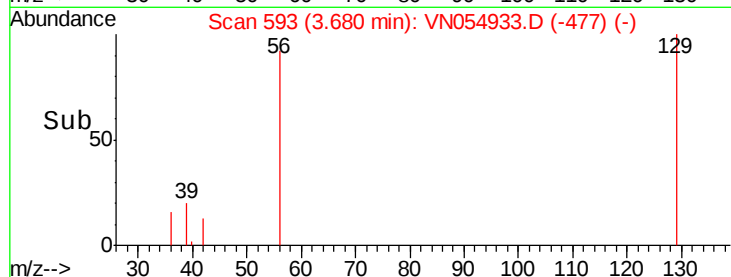
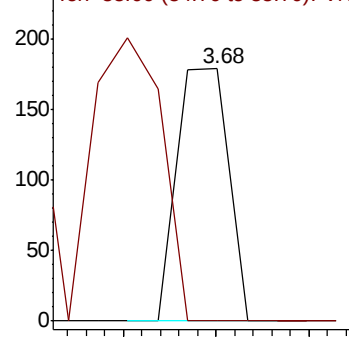
56 100

55 149.3 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.269 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.01 min

Lab File: VN054933.D

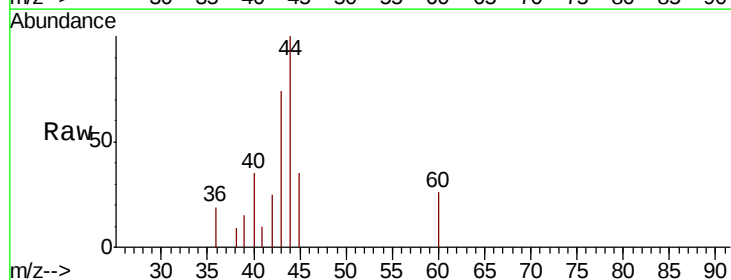
Acq: 3 Apr 2019 19:05

Tgt Ion: 43 Resp: 413

Ion Ratio Lower Upper

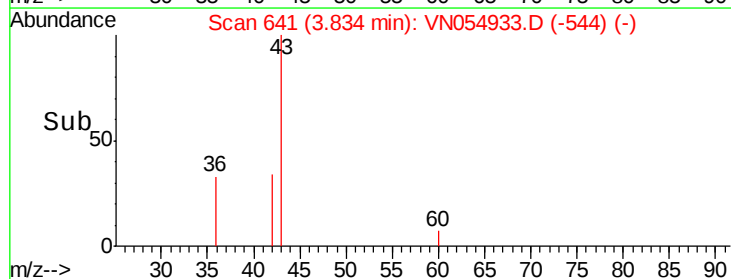
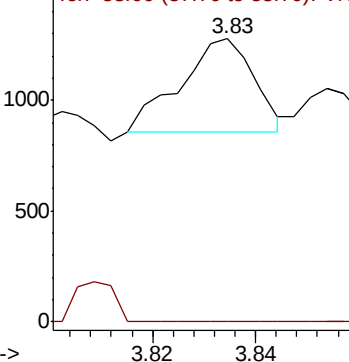
43 100

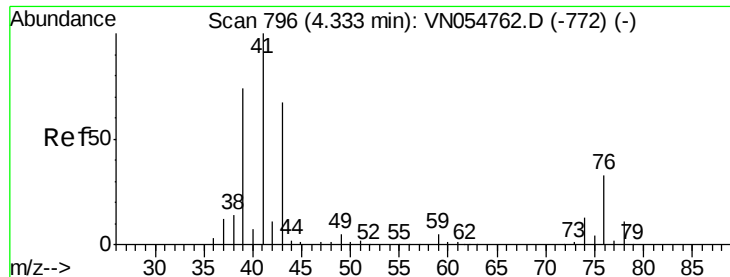
58 0.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

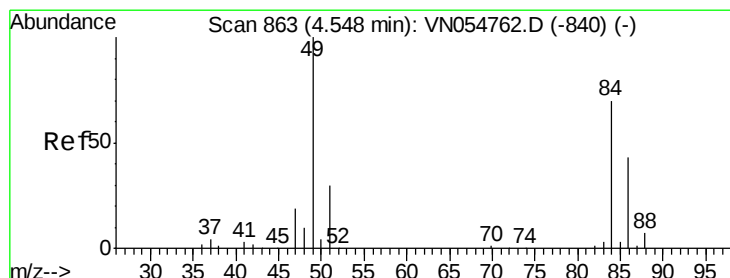
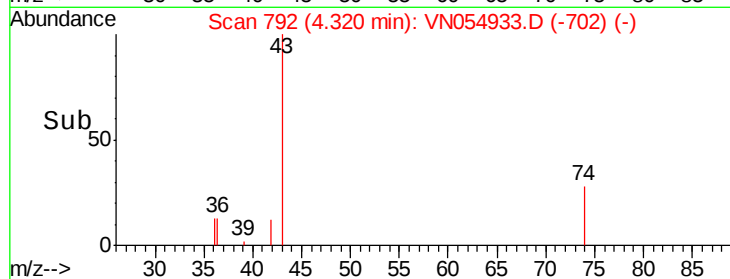
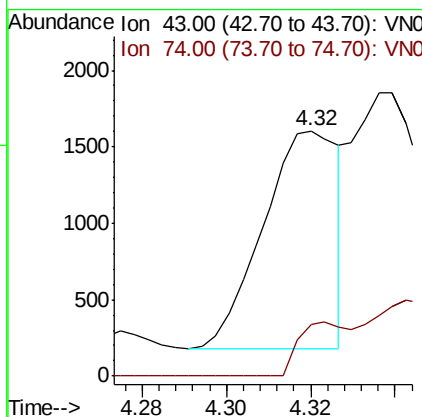
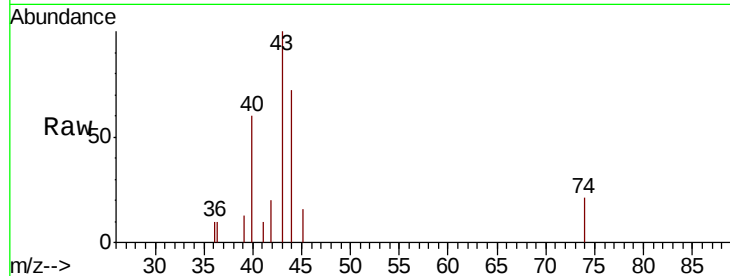




#18
Methvl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 792
Delta R.T. -0.01 min
Lab File: VN054933.D
Acq: 3 Apr 2019 19:05

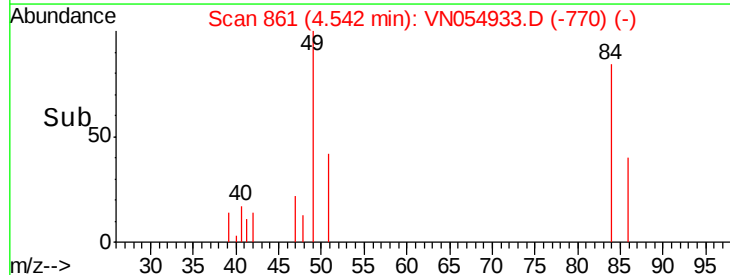
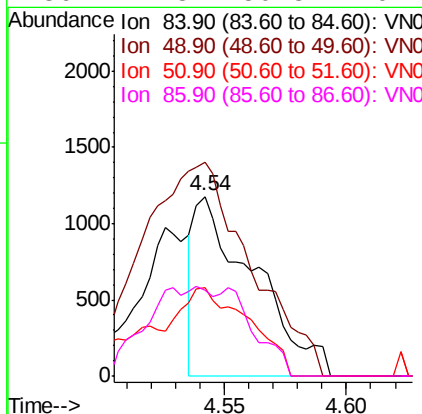
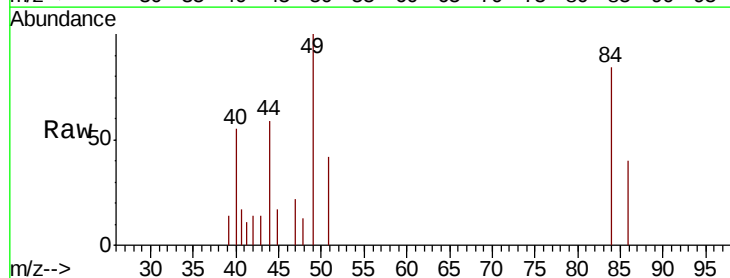
Instrument :
MSVOA_N
ClientSampleId :

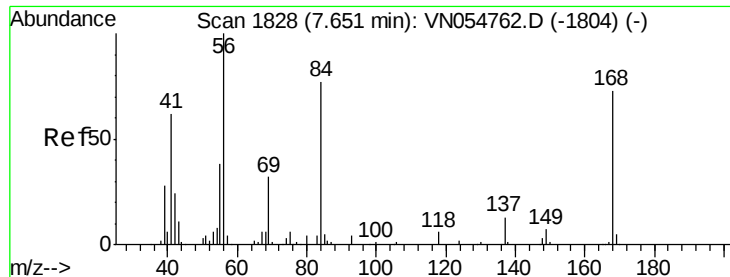
Tot Ion: 43 Resp: 1760
Ion Ratio Lower Upper
43 100
74 17.1 20.8 31.2#



#20
Methylene Chloride
Concen: 0.368 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN054933.D
Acq: 3 Apr 2019 19:05

Tgt Ion: 84 Resp: 1992
Ion Ratio Lower Upper
84 100
49 118.8 89.7 134.5
51 49.4 28.2 42.4#
86 47.8 50.8 76.2#

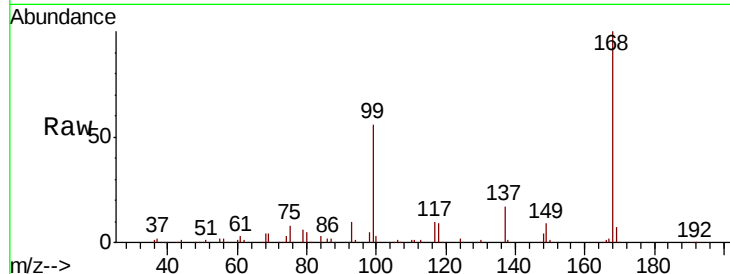




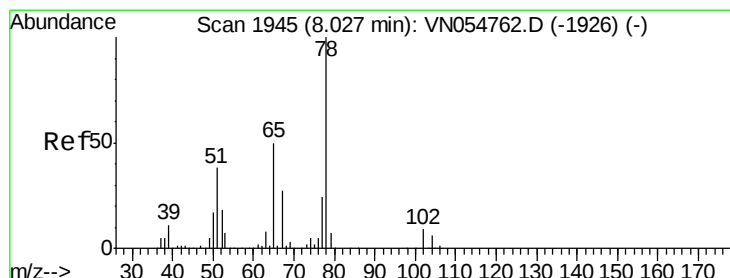
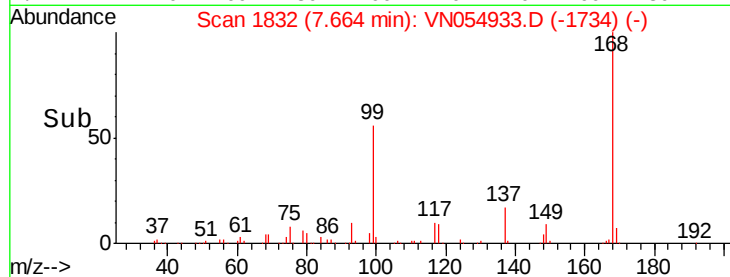
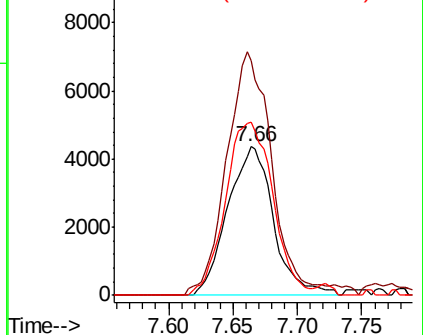
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054933.D
Acq: 3 Apr 2019 19:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 10783
Ion Ratio Lower Upper
56 100
69 153.3 27.8 41.6#
84 116.5 74.6 111.8#

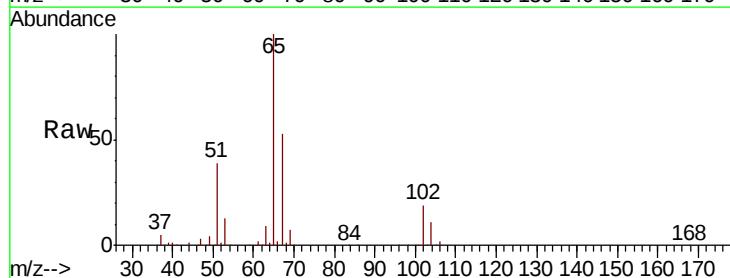


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

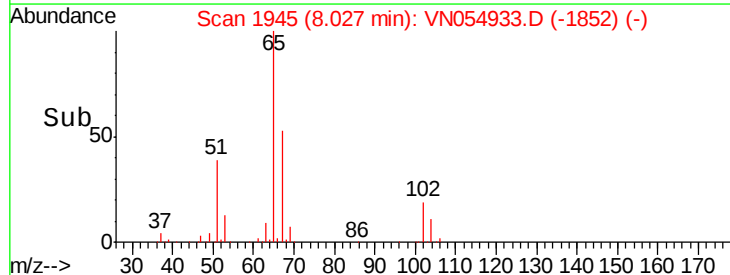
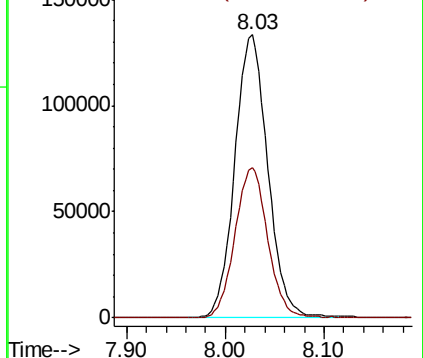


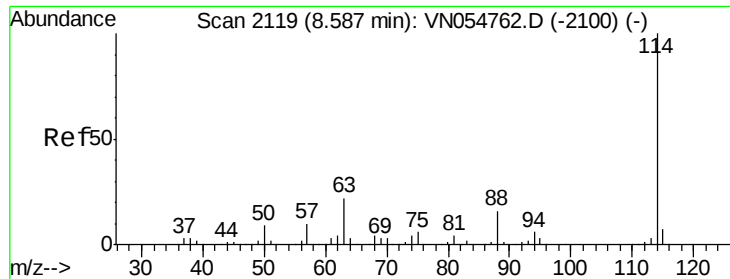
#33
1,2-Dichloroethane-d4
Concen: 48.096 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054933.D
Acq: 3 Apr 2019 19:05

Tgt Ion: 65 Resp: 309386
Ion Ratio Lower Upper
65 100
67 52.7 0.0 104.6



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

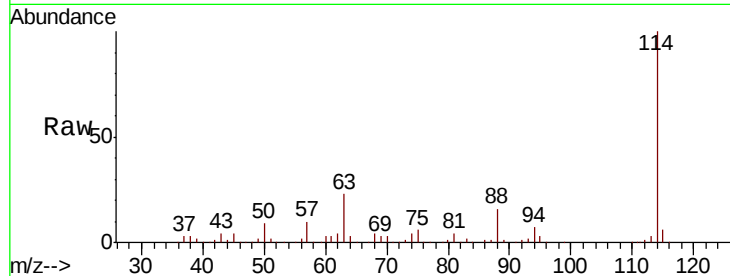




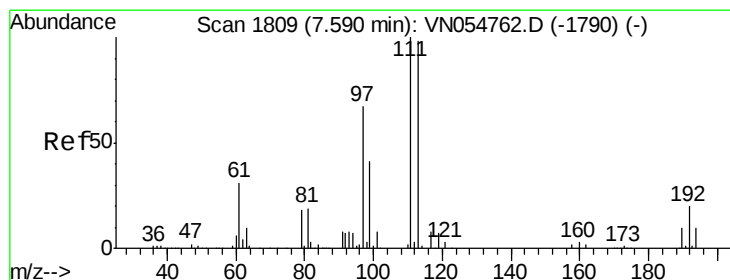
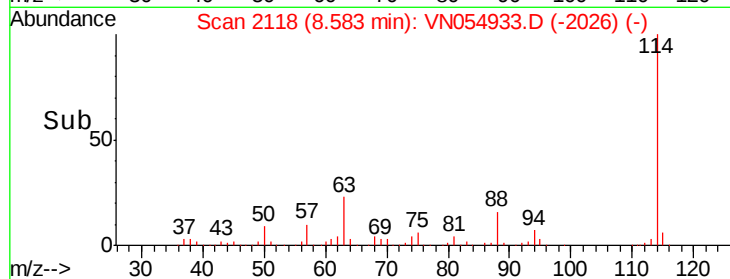
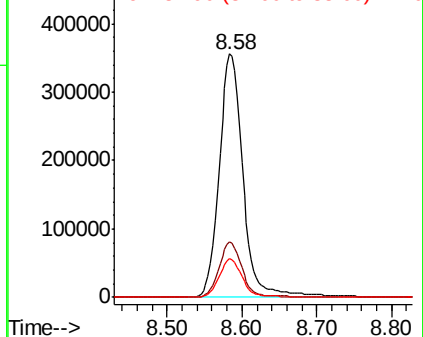
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054933.D
 Acq: 3 Apr 2019 19:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 785364
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 15.7 0.0 30.2

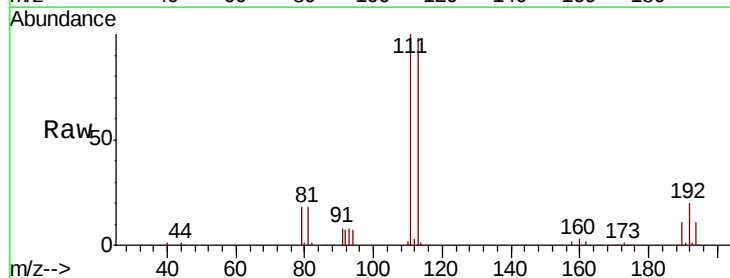


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

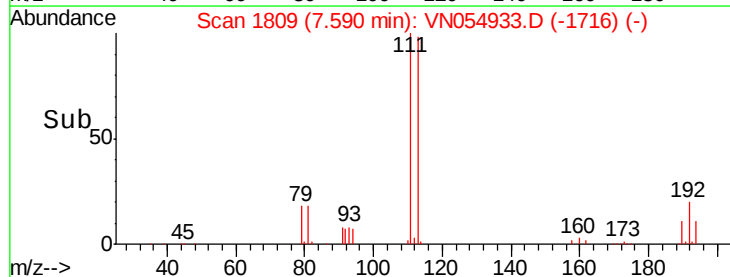
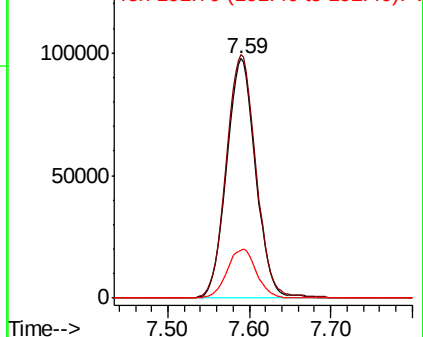


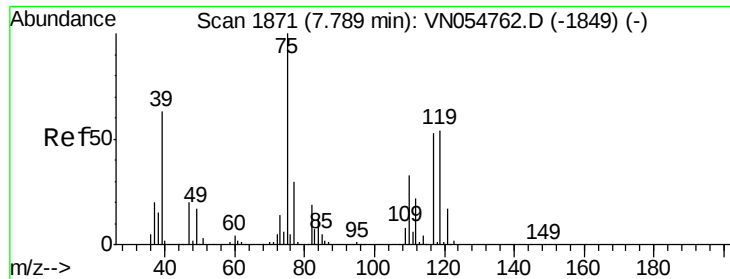
#35
 Dibromofluoromethane
 Concen: 46.801 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054933.D
 Acq: 3 Apr 2019 19:05

Tgt Ion:113 Resp: 245050
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.2 123.4
 192 20.7 19.2 28.8



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

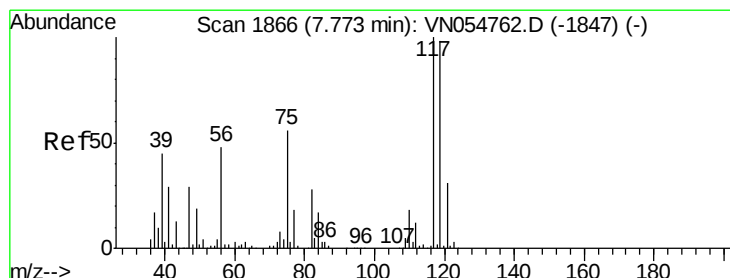
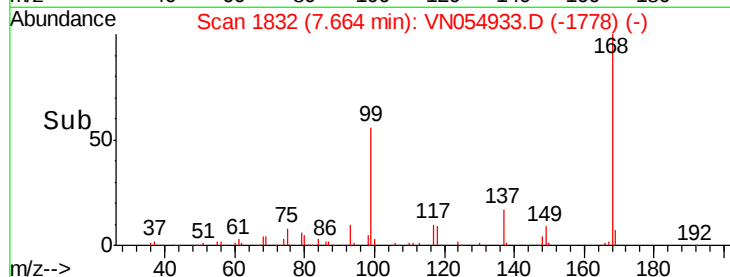
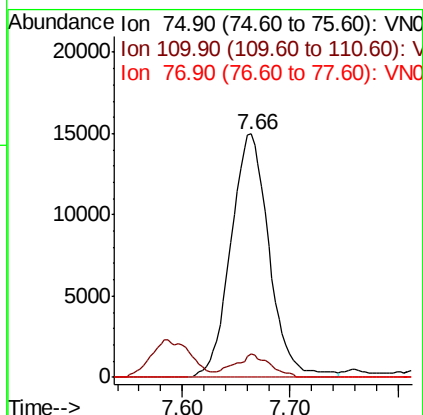
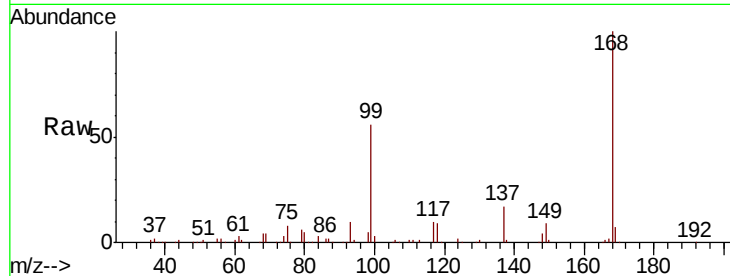




#36
 1,1-Dichloropropene
 Concen: 5.068 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054933.D
 Acq: 3 Apr 2019 19:05

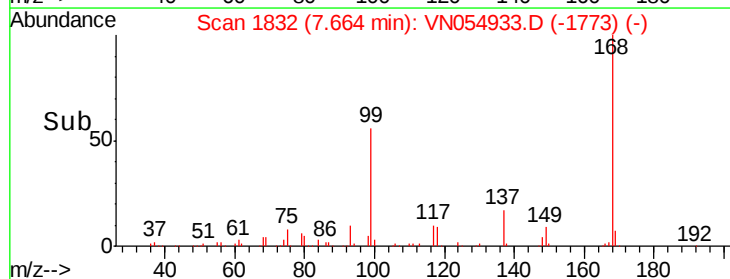
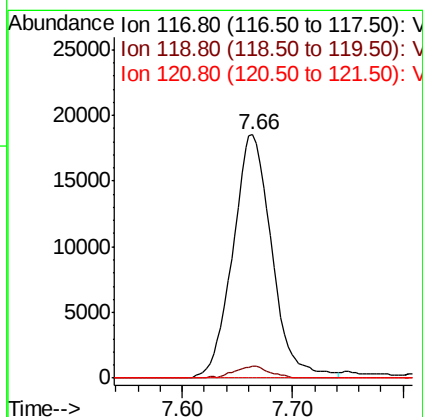
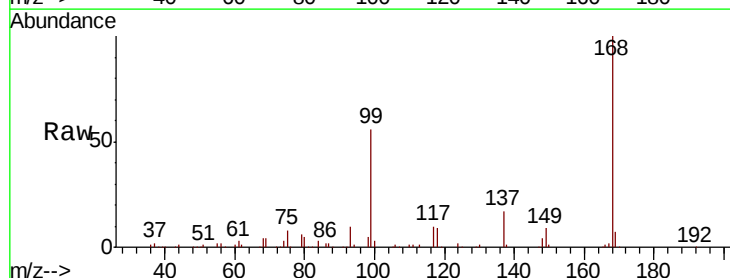
Instrument :
 MSVOA_N
 ClientSampleId :

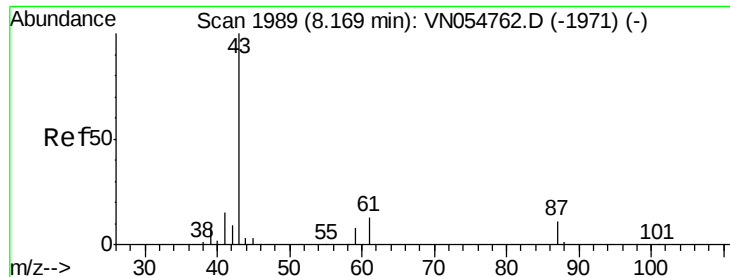
Tot Ion	75	Resp	37088
Ion Ratio	Lower	Upper	
75	100		
110	9.0	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.382 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054933.D
 Acq: 3 Apr 2019 19:05

Tgt Ion	117	Resp	45364
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.1	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.890 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. 0.10 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

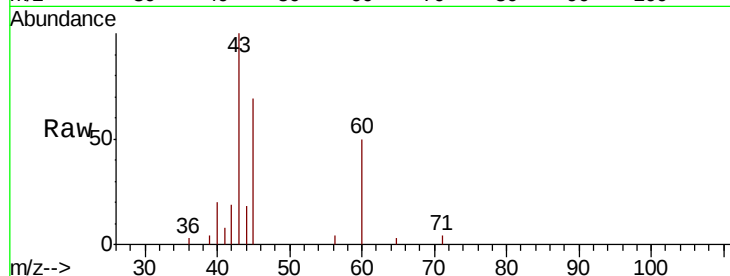
Tot Ion: 43 Resp: 16478

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

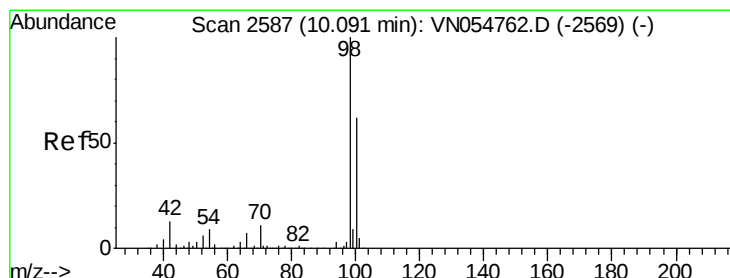
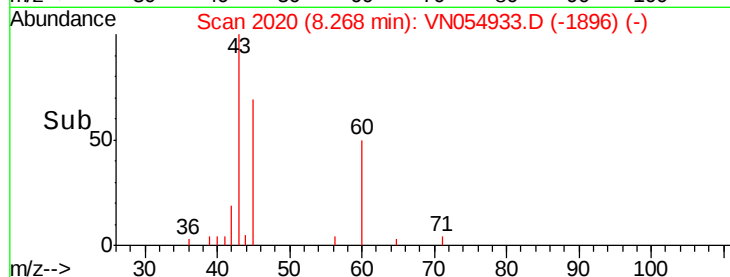
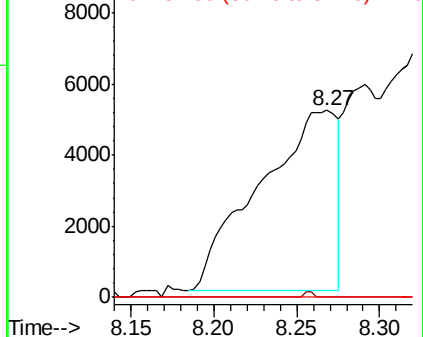
87 0.0 12.0 18.0#



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: 48.934 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054933.D

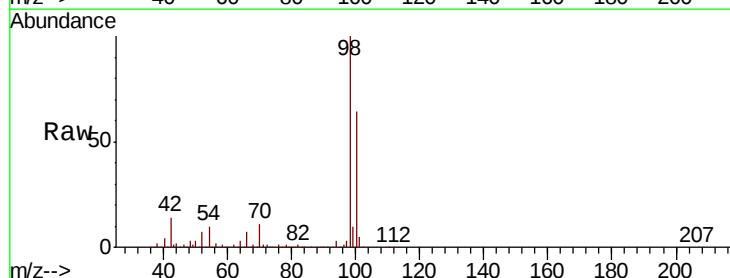
Acq: 3 Apr 2019 19:05

Tgt Ion: 98 Resp: 952562

Ion Ratio Lower Upper

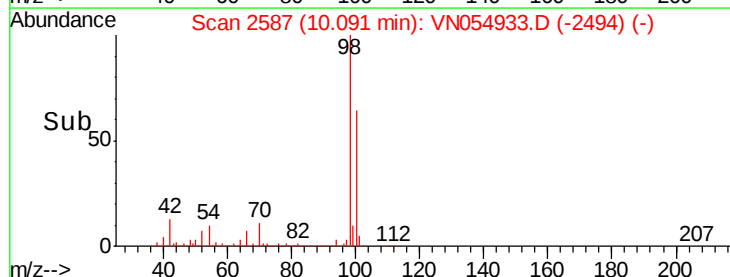
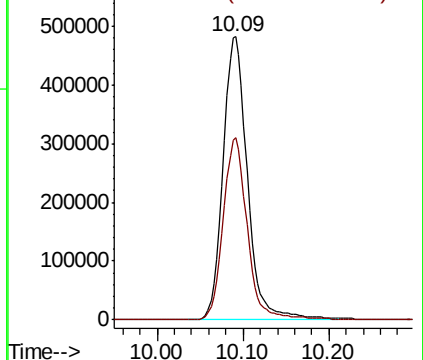
98 100

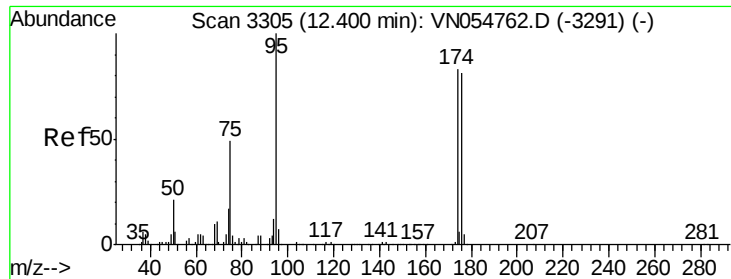
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 46.473 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

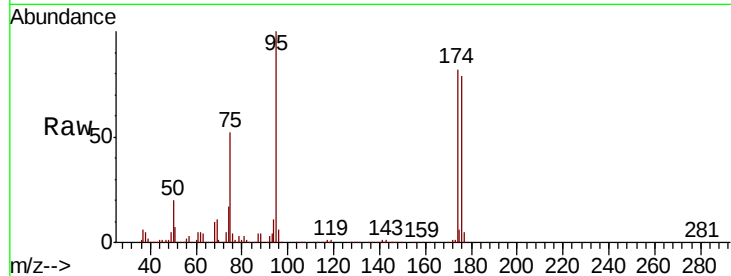
Tot Ion: 95 Resp: 300863

Ion Ratio Lower Upper

95 100

174 84.9 0.0 191.0

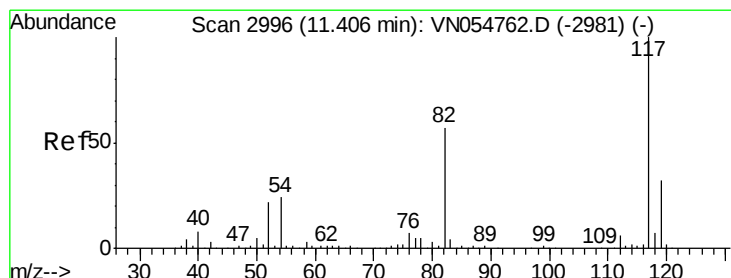
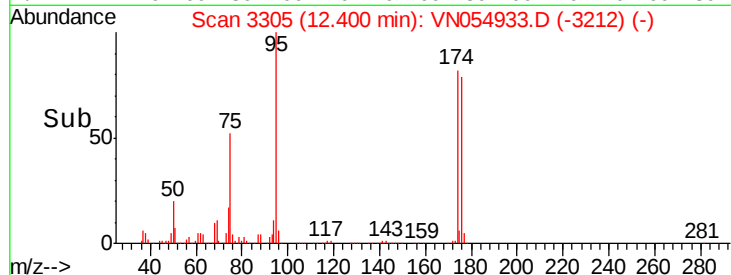
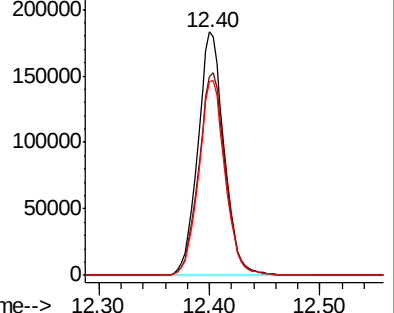
176 80.7 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054933.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054933.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054933.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

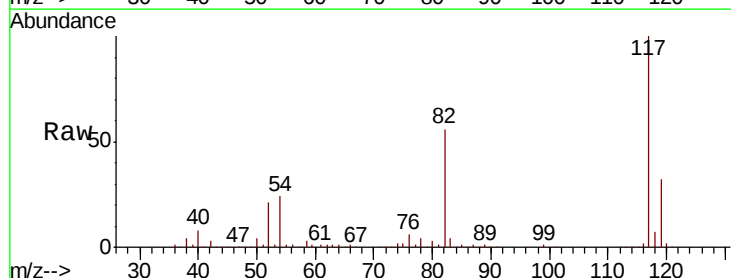
Tgt Ion: 117 Resp: 683169

Ion Ratio Lower Upper

117 100

82 55.6 40.0 60.0

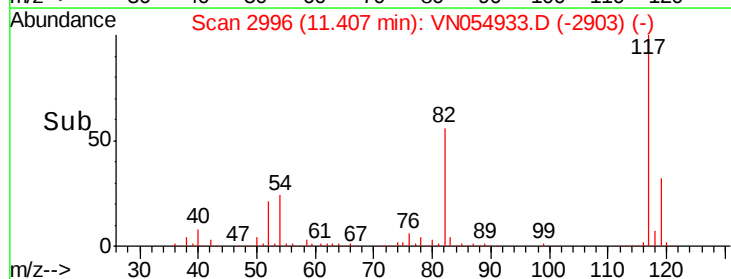
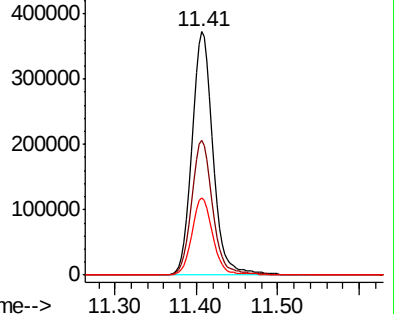
119 31.7 25.8 38.6

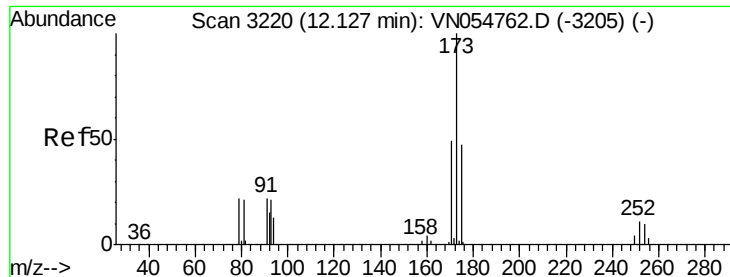


Abundance Ion 116.90 (116.60 to 117.60): VN054933.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054933.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054933.D (-2903) (-)





#71

Bromoform

Concen: 0.793 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

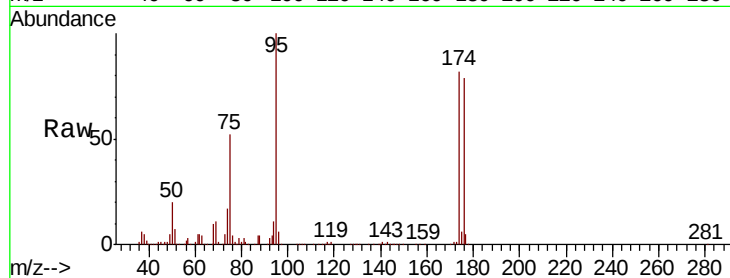
Tot Ion:173 Resp: 2327

Ion Ratio Lower Upper

173 100

175 747.5 24.4 73.2#

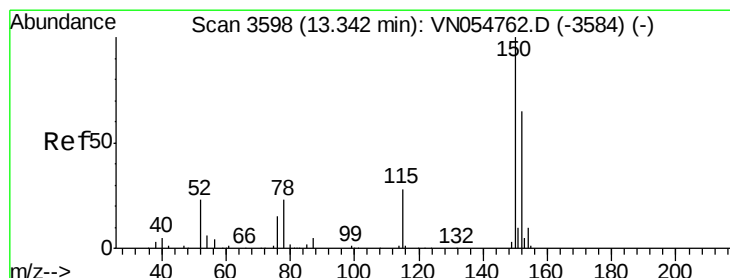
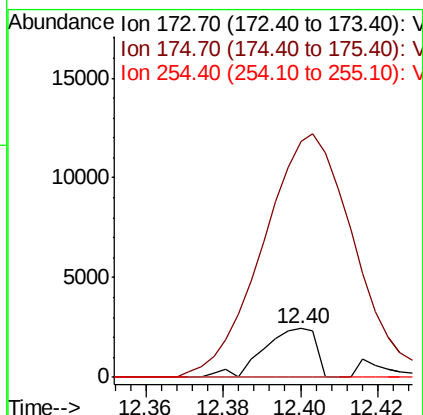
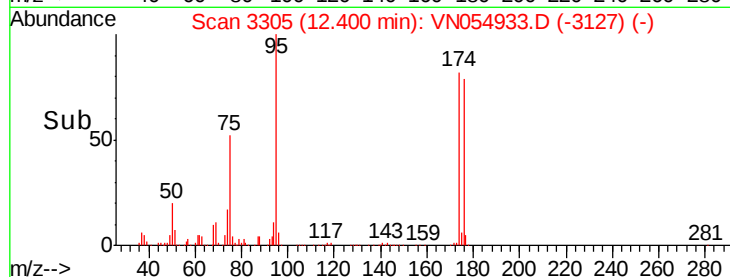
254 0.0 0.1 0.1#



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: VN054933.D

Acq: 3 Apr 2019 19:05

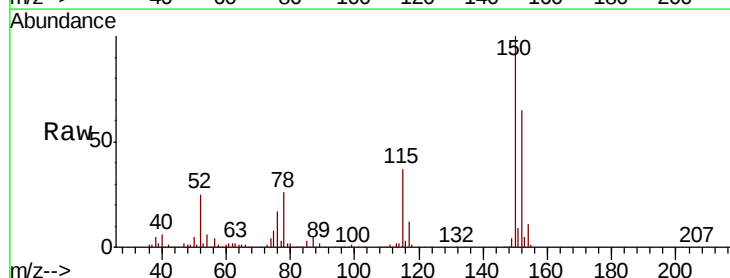
Tgt Ion:152 Resp: 253761

Ion Ratio Lower Upper

152 100

115 58.3 27.2 81.6

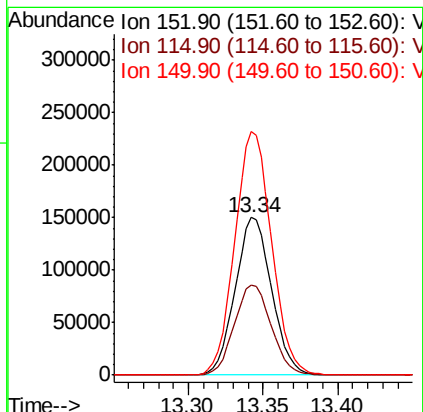
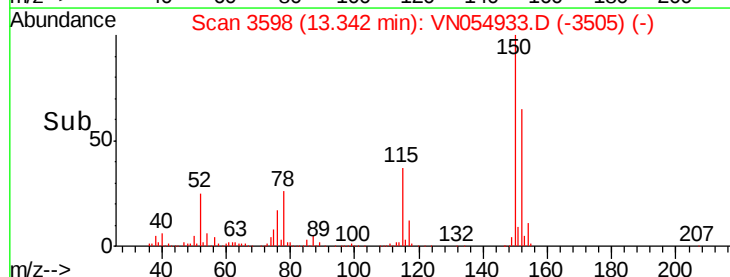
150 156.9 0.0 349.2

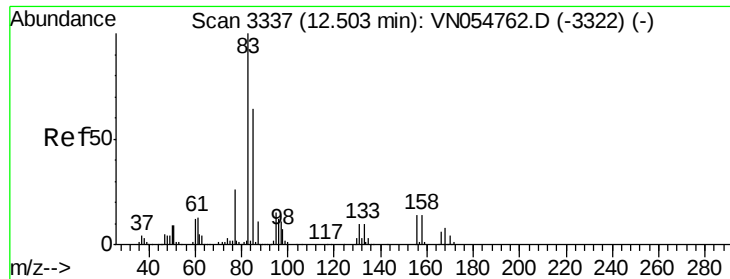


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

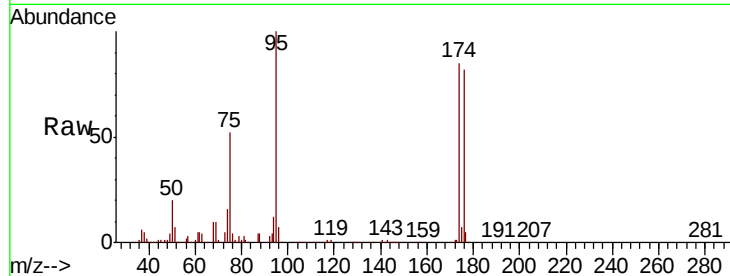
Tot Ion: 83 Resp: 105

Ion Ratio Lower Upper

83 100

131 350.5 5.8 17.4#

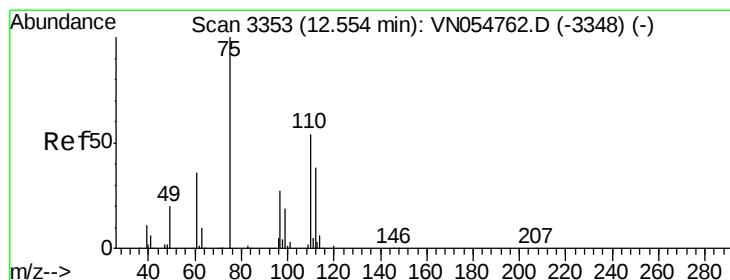
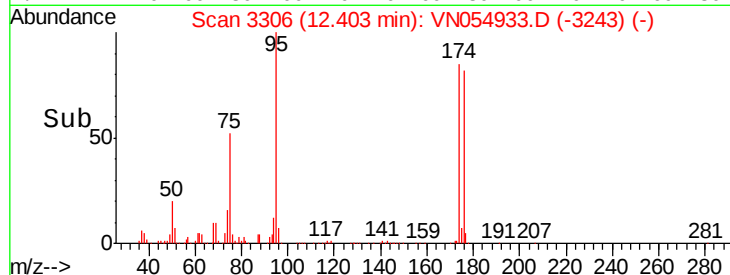
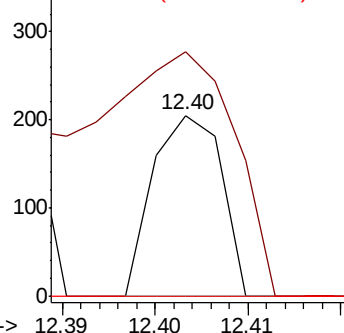
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 35.685 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054933.D

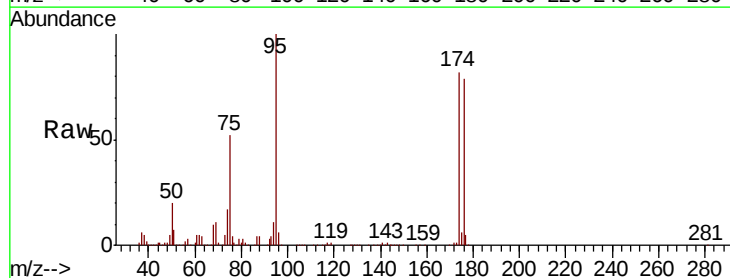
Acq: 3 Apr 2019 19:05

Tgt Ion: 75 Resp: 157313

Ion Ratio Lower Upper

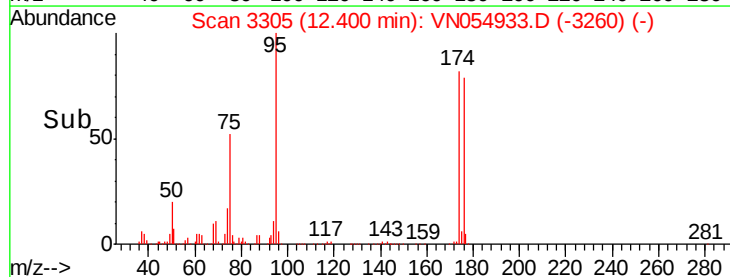
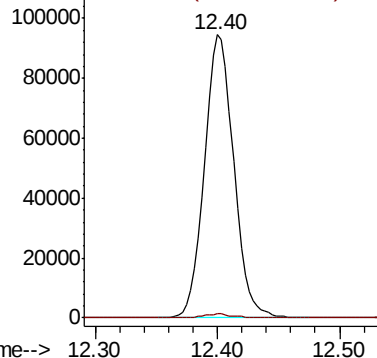
75 100

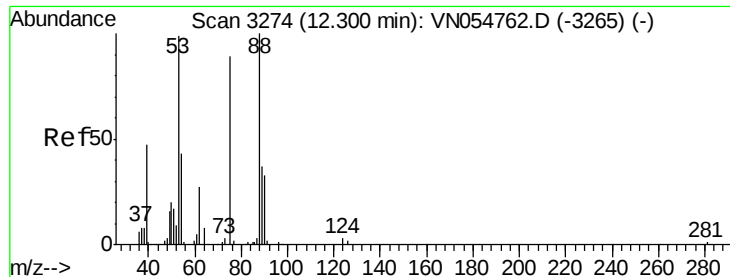
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 138.804 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

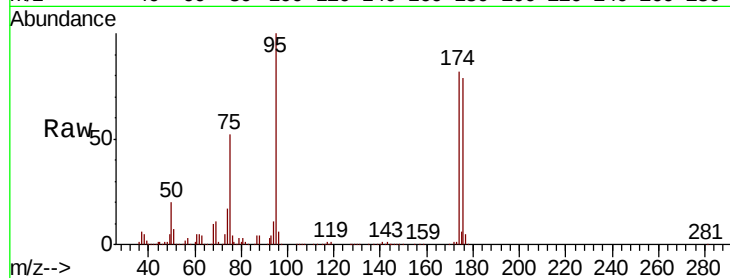
Tot Ion: 75 Resp: 157313

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

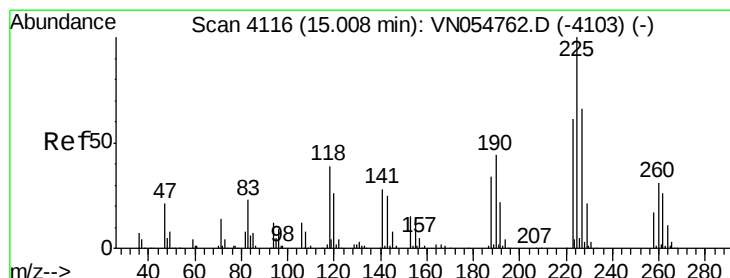
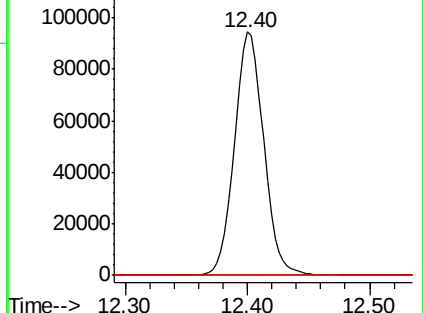
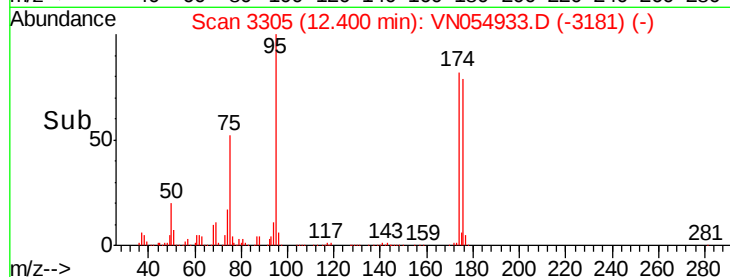
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054933.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054933.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054933.D (-3181) (-)



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VN054933.D

Acq: 3 Apr 2019 19:05

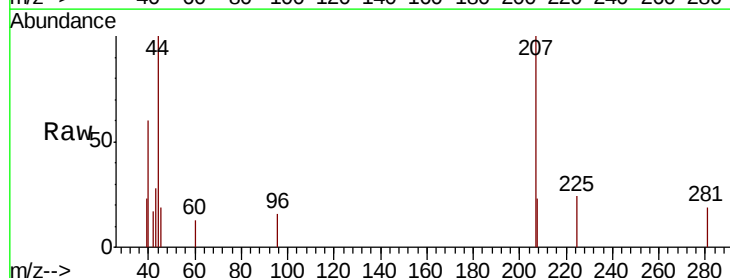
Tgt Ion: 225 Resp: 213

Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.5#

227 49.3 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): VN054933.D (-4022) (-)

Ion 222.70 (222.40 to 223.40): VN054933.D (-4022) (-)

Ion 226.70 (226.40 to 227.40): VN054933.D (-4022) (-)

