

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
 Data File : VN055592.D
 Acq On : 14 May 2019 14:36
 Operator : JC/SP
 Sample : VN0514WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0514WBL01

Quant Time: May 15 07:42:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 07:28:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	931843	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1521052	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1270977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	352052	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	601008	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	
35) Dibromofluoromethane	7.59	113	479998	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	10.09	98	1850359	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
62) 4-Bromofluorobenzene	12.40	95	535217	44.11	ug/l	0.00
Spiked Amount			Recovery	=	88.22%	

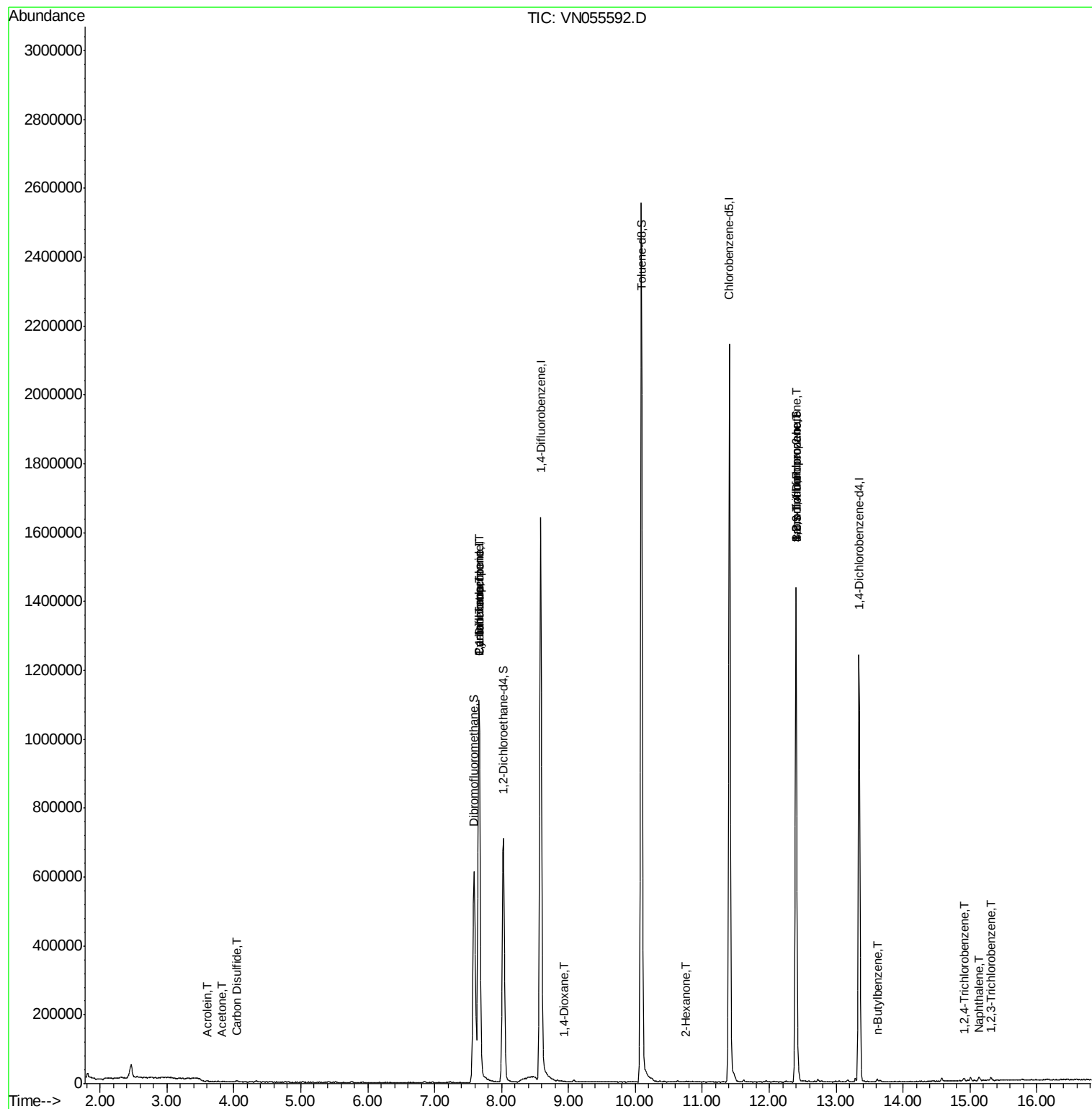
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	1633	0.973	ug/l	95
16) Acetone	3.82	43	1281	0.215	ug/l #	43
17) Carbon Disulfide	4.05	76	7850	0.270	ug/l	97
18) Methyl Acetate	4.33	43	6415	Below Cal	#	75
31) Cyclohexane	7.66	56	19887	0.918	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	72054	4.765	ug/l #	49
38) Carbon Tetrachloride	7.66	117	85424	6.804	ug/l #	16
49) 1,4-Dioxane	8.95	88	246	1.240	ug/l #	1
59) 2-Hexanone	10.75	43	2659	0.276	ug/l	98
71) Bromoform	12.40	173	3751	0.637	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	357	Below Cal	#	53
76) 1,2,3-Trichloropropane	12.40	75	263599	30.262	ug/l #	100
77) Bromobenzene	12.53	156	553	Below Cal	#	4
81) trans-1,4-Dichloro-2-buten	12.40	75	263599	107.639	ug/l #	8
89) n-Butylbenzene	13.62	91	5189	0.285	ug/l	91
90) Hexachloroethane	13.88	117	200	Below Cal	#	44
93) 1,2,4-Trichlorobenzene	14.91	180	2686	3.854	ug/l	97
94) Hexachlorobutadiene	15.01	225	2051	Below Cal		89
95) Naphthalene	15.13	128	8161	3.556	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	3210	3.334	ug/l	94

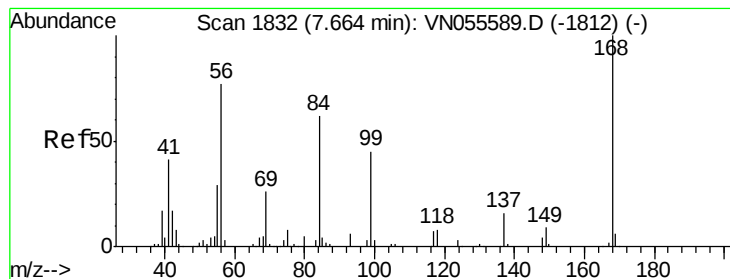
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 15 07:28:47 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: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

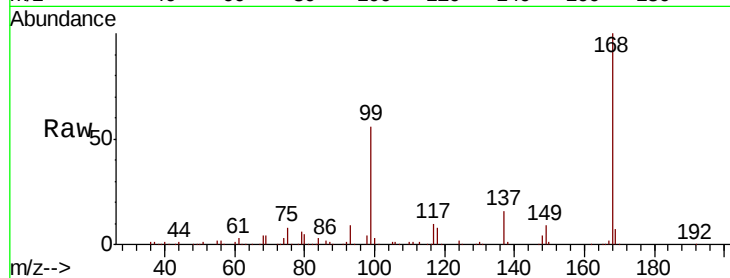
VN0514WBL01

Tot Ion:168 Resp: 931843

Ion Ratio Lower Upper

168 100

99 55.6 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): VN055589.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055589.D (-1812) (-)

7.66

400000

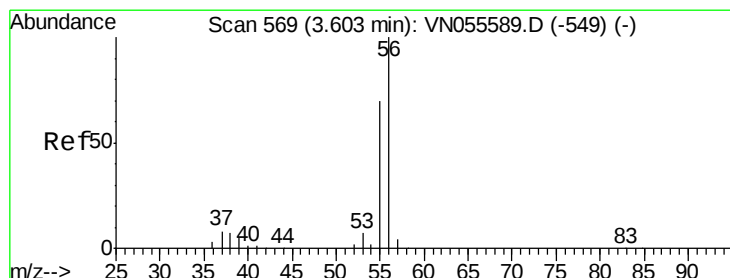
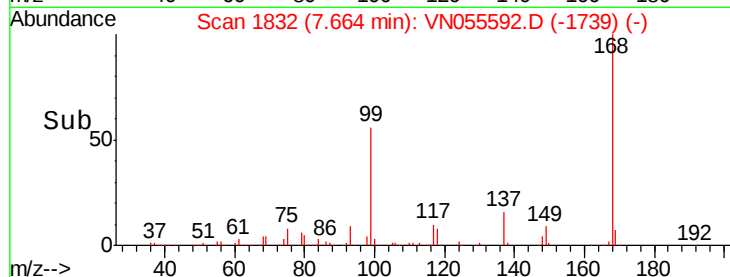
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.973 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN055592.D

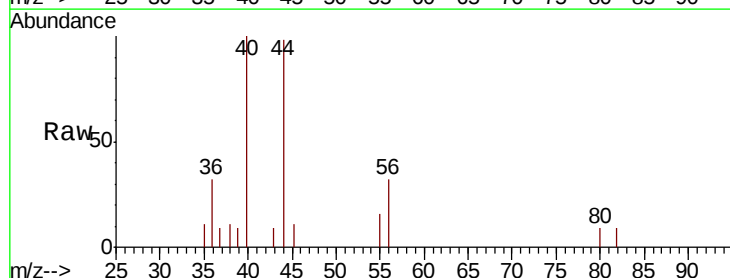
Acq: 14 May 2019 14:36

Tgt Ion: 56 Resp: 1633

Ion Ratio Lower Upper

56 100

55 66.9 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VN055589.D (-549) (-)

Ion 55.00 (54.70 to 55.70): VN055589.D (-549) (-)

3.61

800

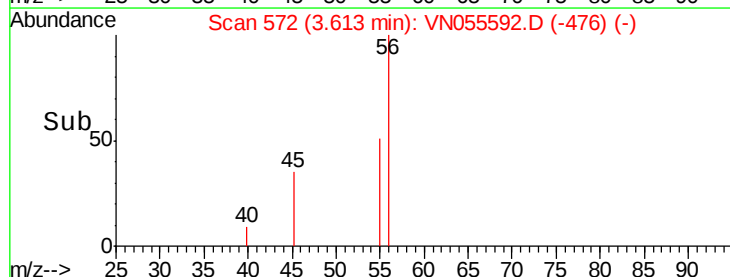
600

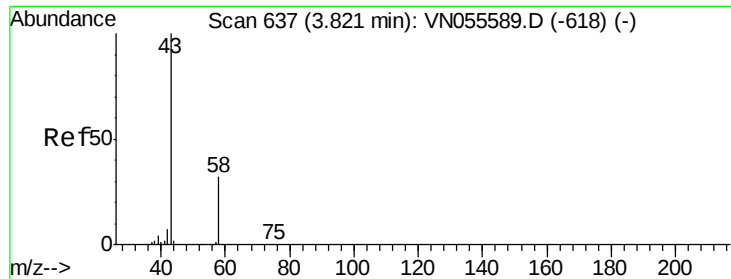
400

200

0

Time-->





#16

Acetone

Concen: 0.215 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

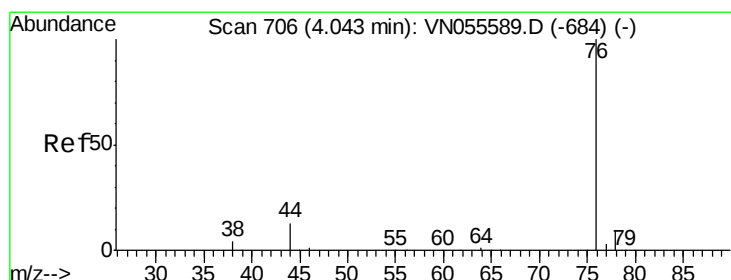
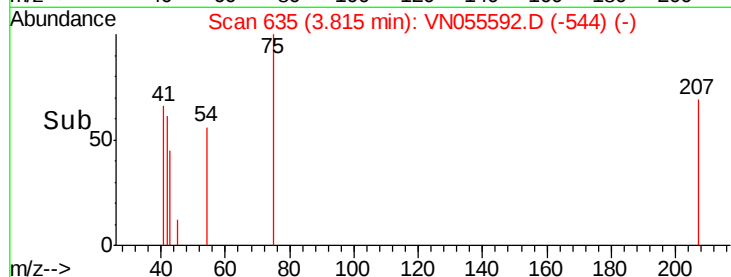
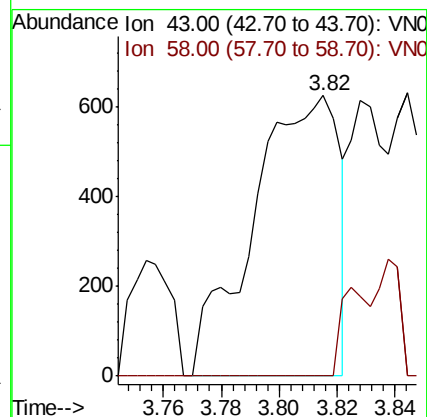
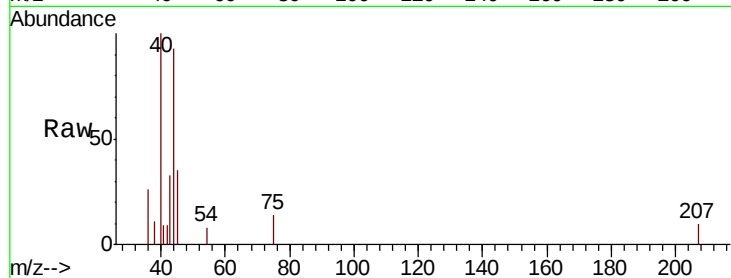
VN0514WBL01

Tot Ion: 43 Resp: 1281

Ion Ratio Lower Upper

43 100

58 0.0 25.7 38.5#



#17

Carbon Disulfide

Concen: 0.270 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN055592.D

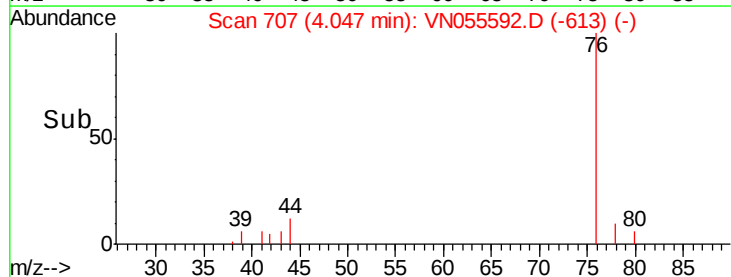
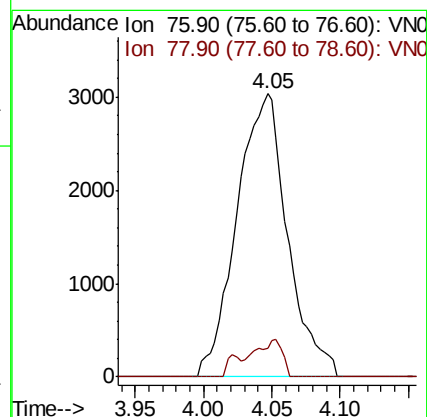
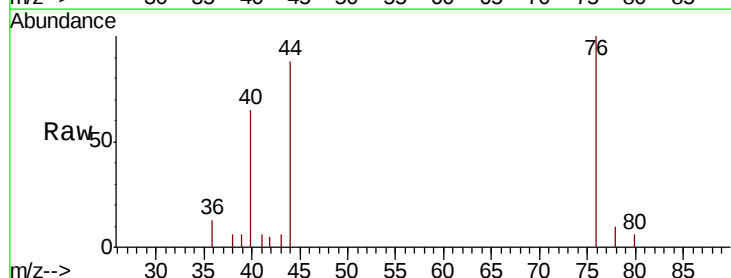
Acq: 14 May 2019 14:36

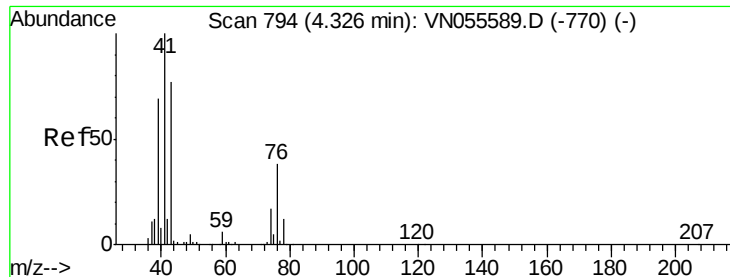
Tgt Ion: 76 Resp: 7850

Ion Ratio Lower Upper

76 100

78 10.2 7.4 11.0

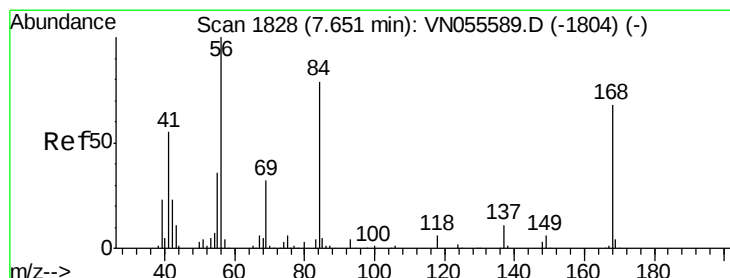
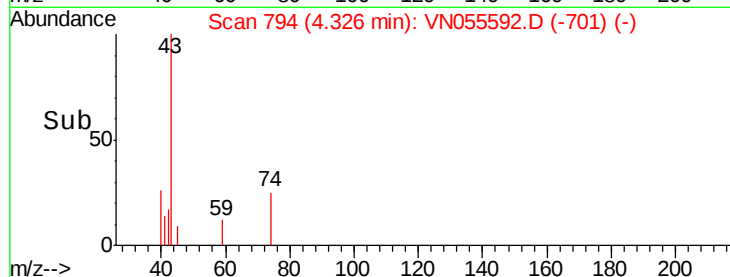
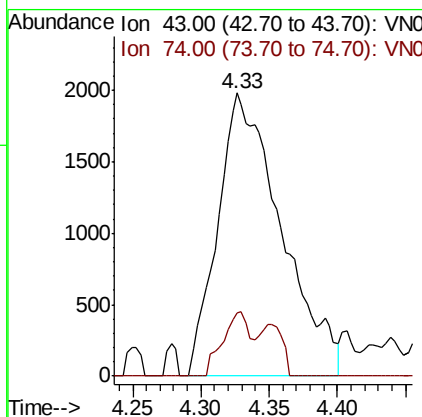
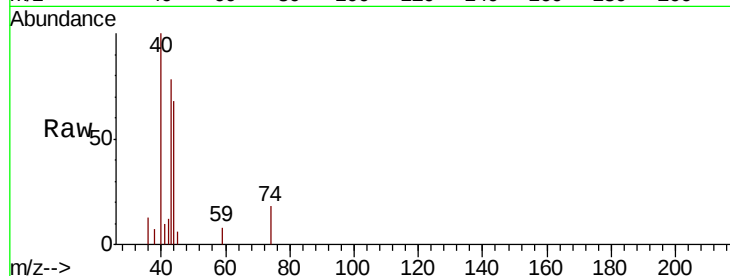




#18
Methvl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055592.D
Acq: 14 May 2019 14:36

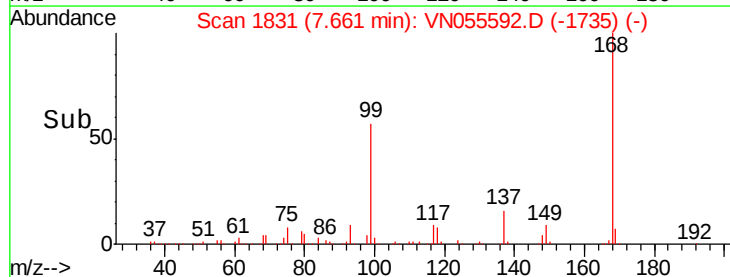
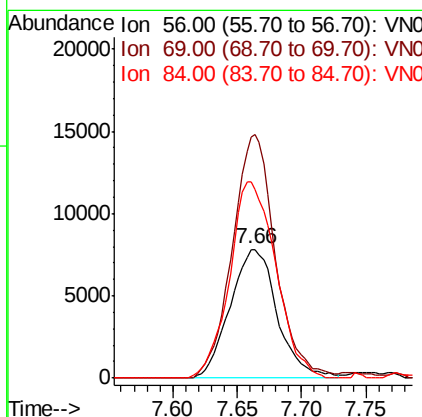
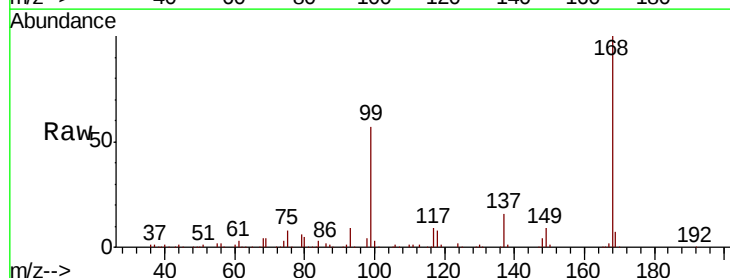
Instrument :
MSVOA_N
ClientSampleId :
VN0514WBL01

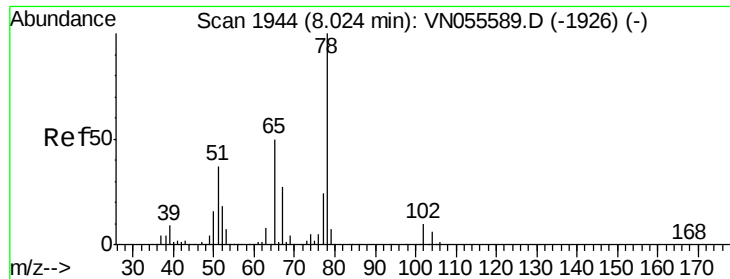
Tot Ion: 43 Resp: 6415
Ion Ratio Lower Upper
43 100
74 9.9 17.4 26.2#



#31
Cyclohexane
Concen: 0.918 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055592.D
Acq: 14 May 2019 14:36

Tgt Ion: 56 Resp: 19887
Ion Ratio Lower Upper
56 100
69 186.9 25.7 38.5#
84 152.2 63.4 95.0#

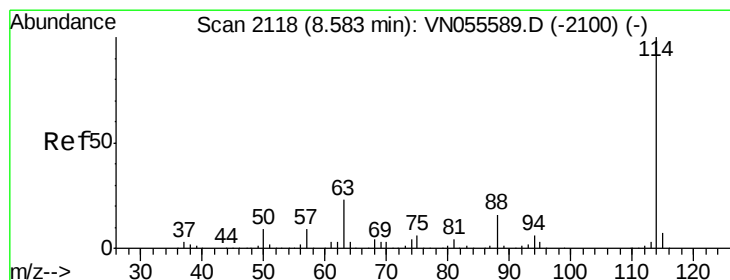
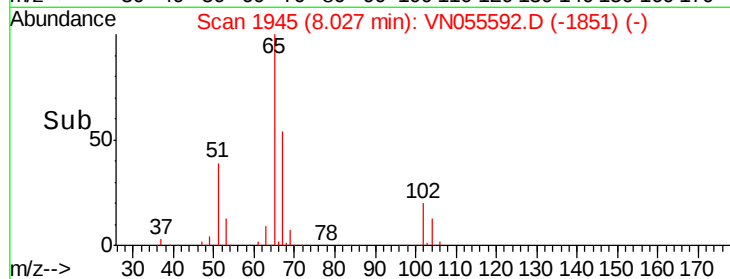
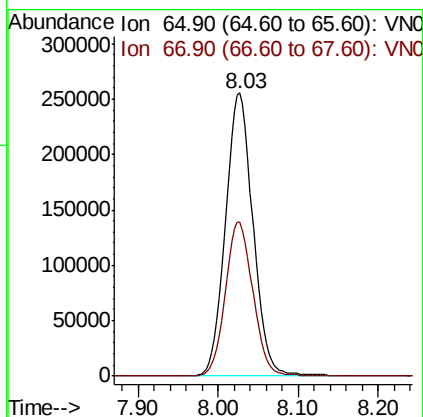
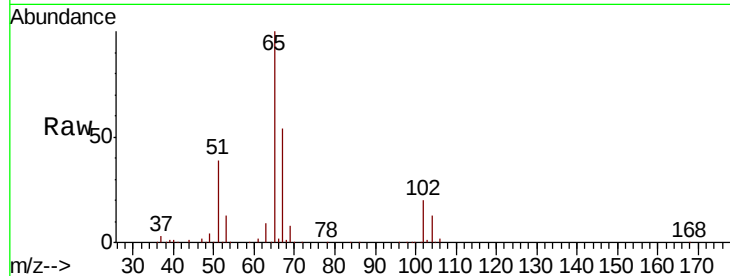




#33
 1,2-Dichloroethane-d4
 Concen: 45.915 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055592.D
 Acq: 14 May 2019 14:36

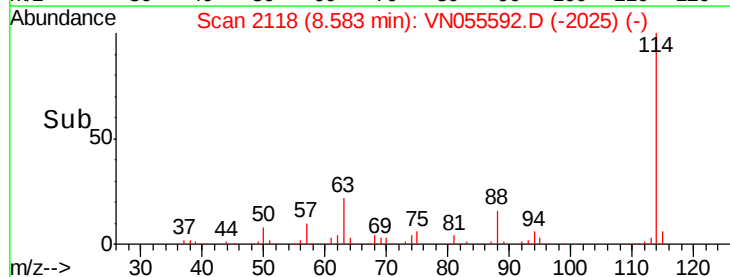
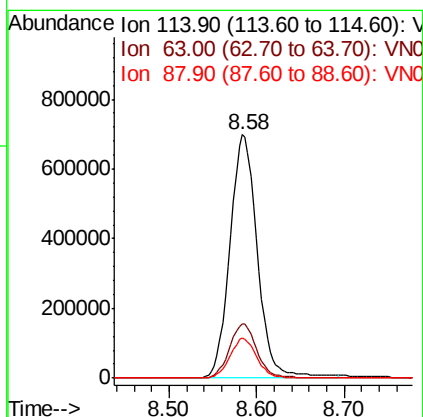
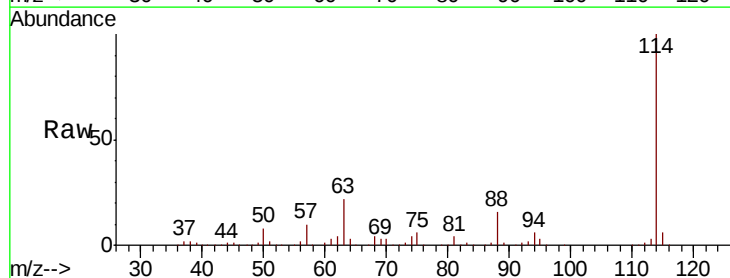
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0514WBL01

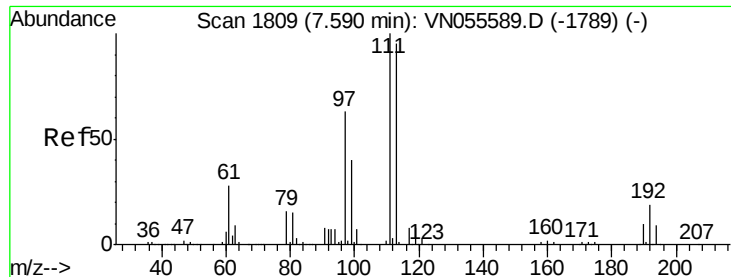
Tot Ion: 65 Resp: 601008
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055592.D
 Acq: 14 May 2019 14:36

Tgt Ion: 114 Resp: 1521052
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 45.8
 88 16.5 0.0 32.6

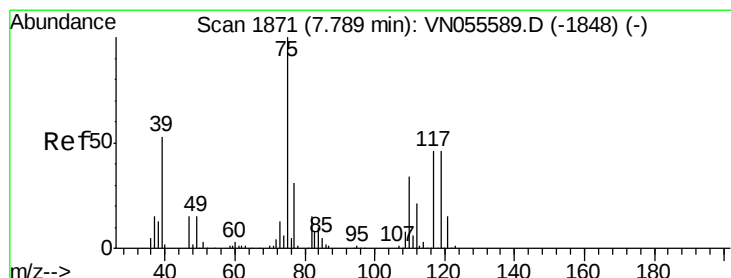
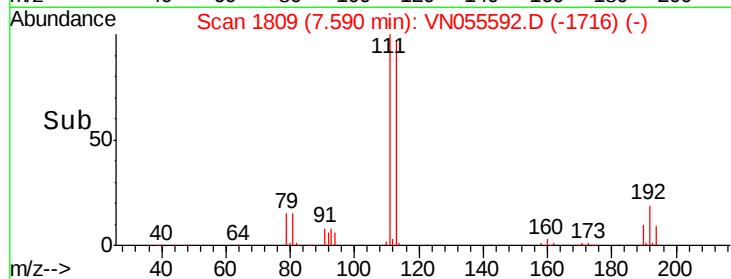
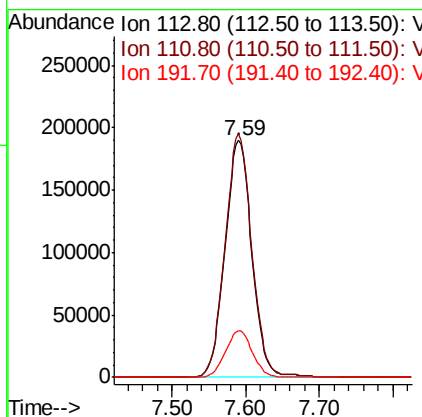
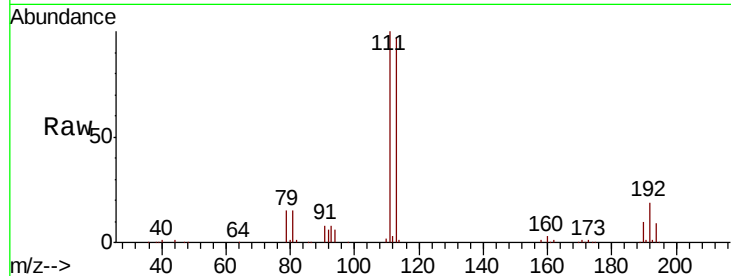




#35
 Dibromofluoromethane
 Concen: 48.428 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055592.D
 Acq: 14 May 2019 14:36

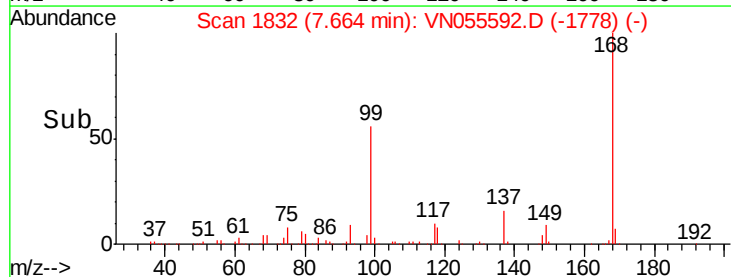
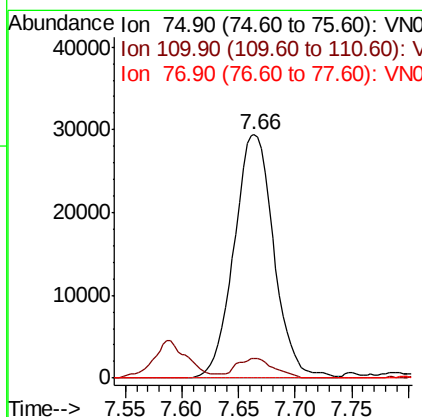
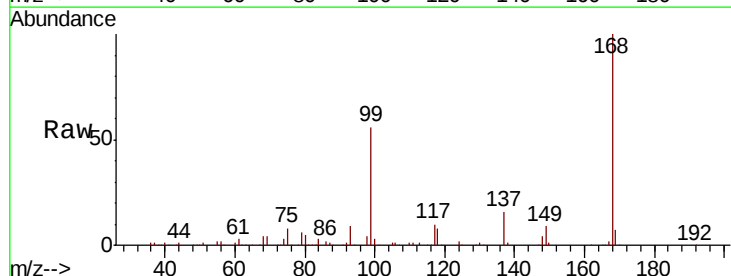
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0514WBL01

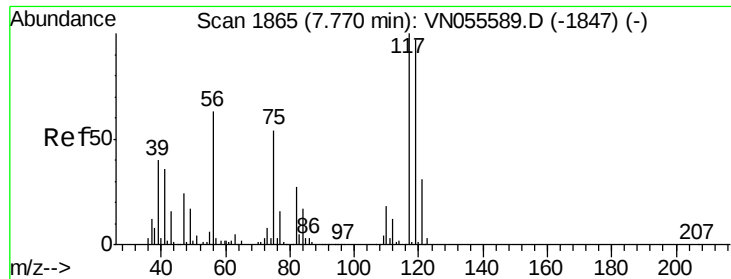
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.5	125.3
192	19.7	16.0	24.0



#36
 1,1-Dichloropropene
 Concen: 4.765 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055592.D
 Acq: 14 May 2019 14:36

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	16.9	50.7#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.804 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampled :

VN0514WBL01

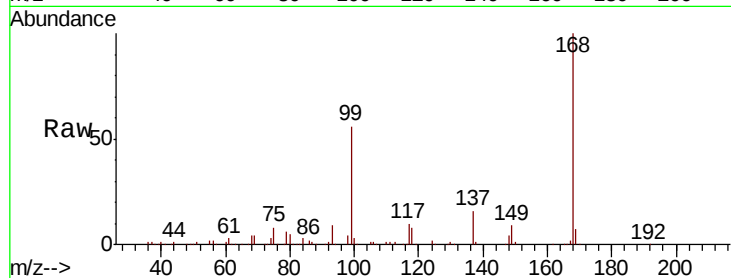
Tot Ion:117 Resp: 85424

Ion Ratio Lower Upper

117 100

119 4.8 77.1 115.7#

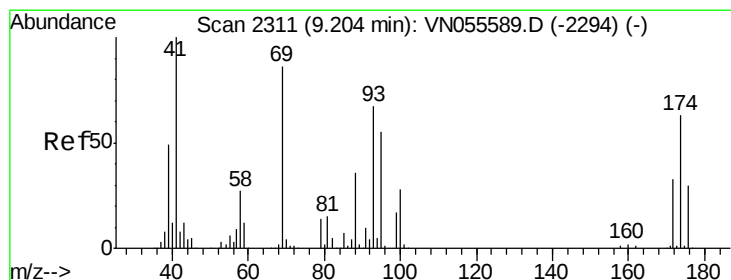
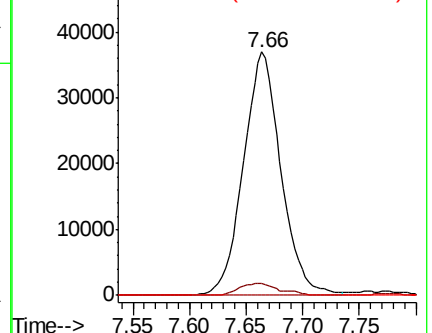
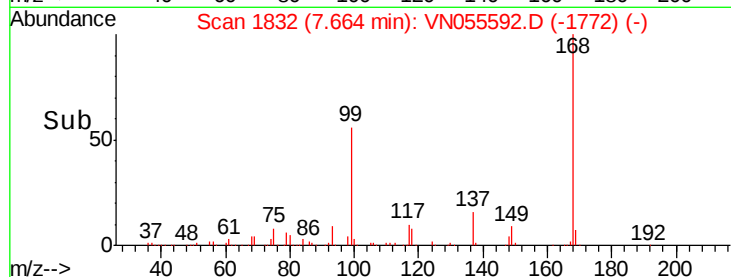
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 1.240 ug/l

RT: 8.95 min Scan# 2231

Delta R.T. -0.26 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

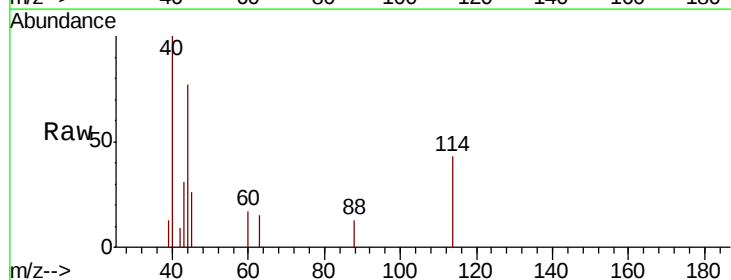
Tgt Ion: 88 Resp: 246

Ion Ratio Lower Upper

88 100

43 202.4 25.4 38.0#

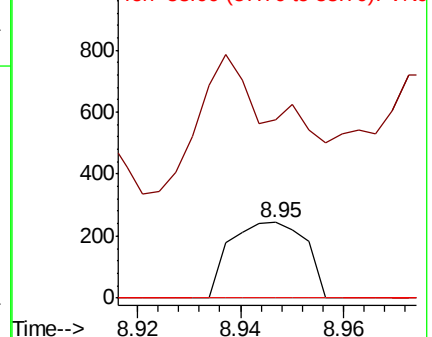
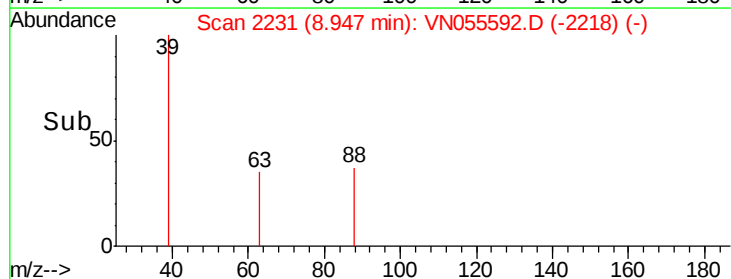
58 0.0 59.4 89.2#

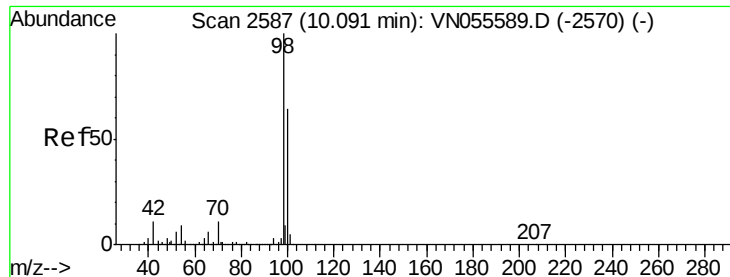


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 48.866 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampled :

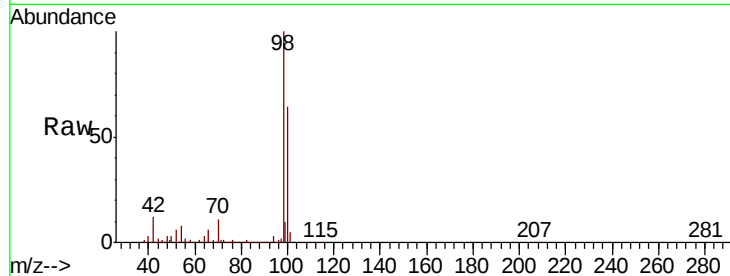
VN0514WBL01

Tot Ion: 98 Resp: 1850359

Ion Ratio Lower Upper

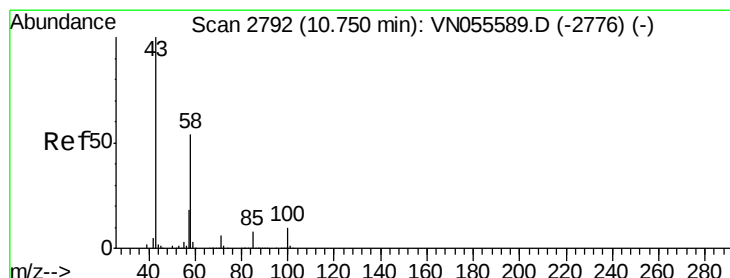
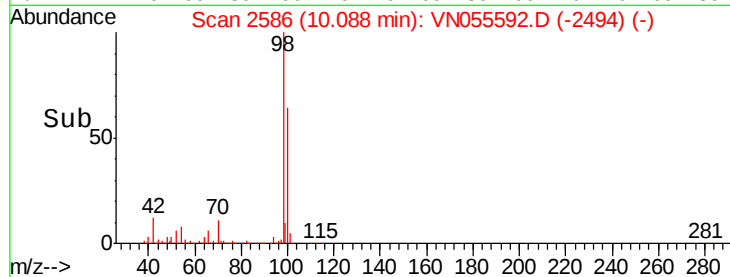
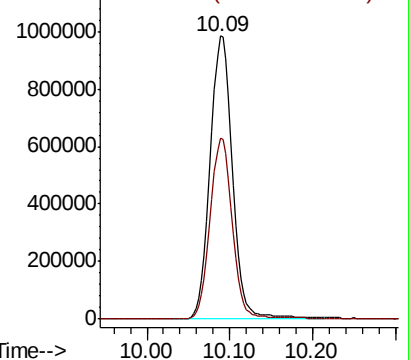
98 100

100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 0.276 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN055592.D

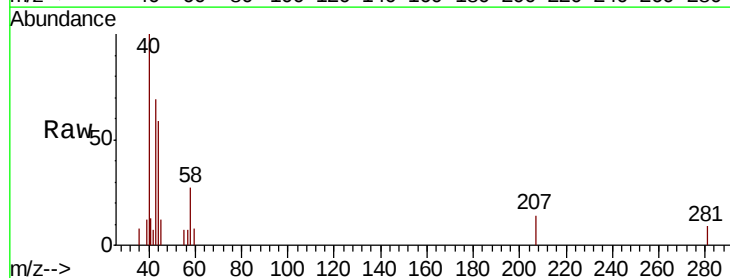
Acq: 14 May 2019 14:36

Tgt Ion: 43 Resp: 2659

Ion Ratio Lower Upper

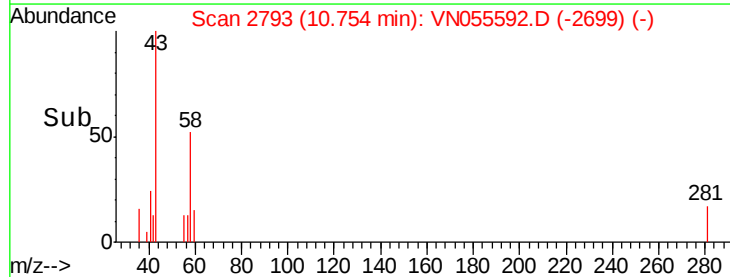
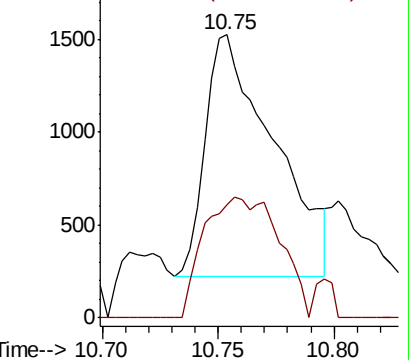
43 100

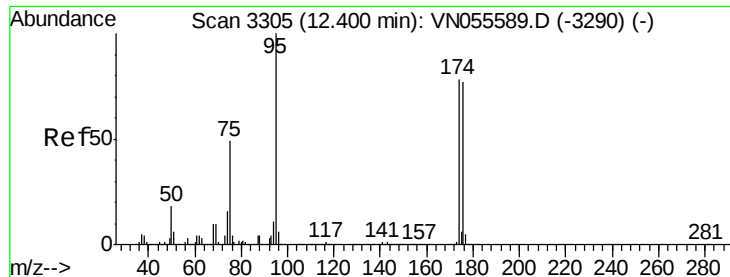
58 55.6 27.0 80.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.115 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0514WBL01

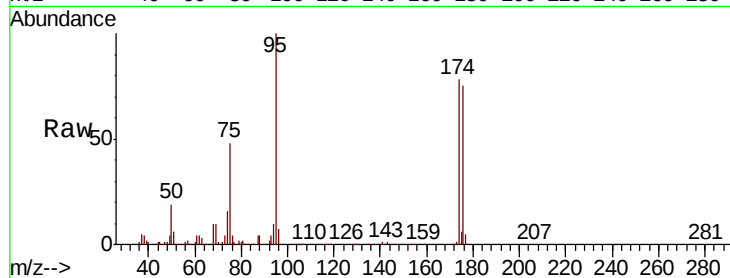
Tot Ion: 95 Resp: 535217

Ion Ratio Lower Upper

95 100

174 78.6 0.0 158.4

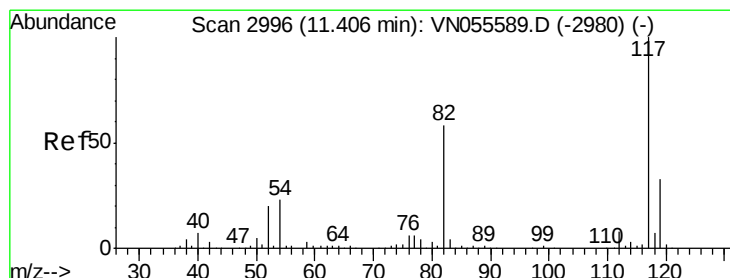
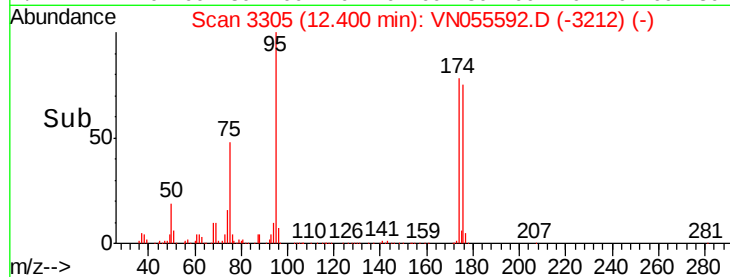
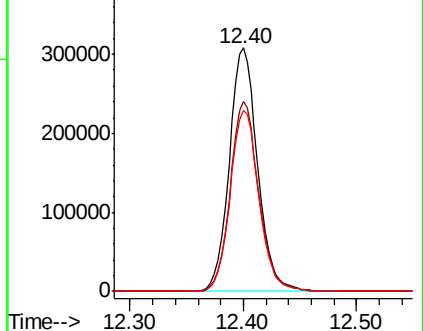
176 75.3 0.0 153.4



Abundance Ion 94.90 (94.60 to 95.60): VN055589.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN055589.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN055589.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

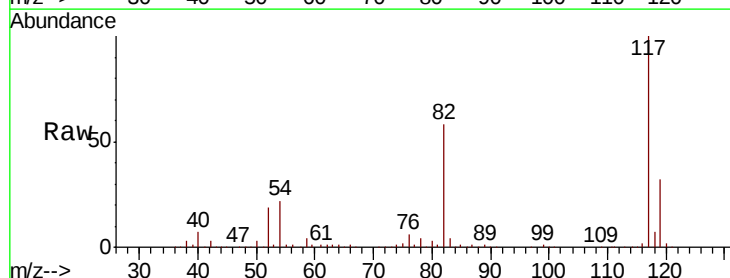
Tgt Ion: 117 Resp: 1270977

Ion Ratio Lower Upper

117 100

82 57.5 46.7 70.1

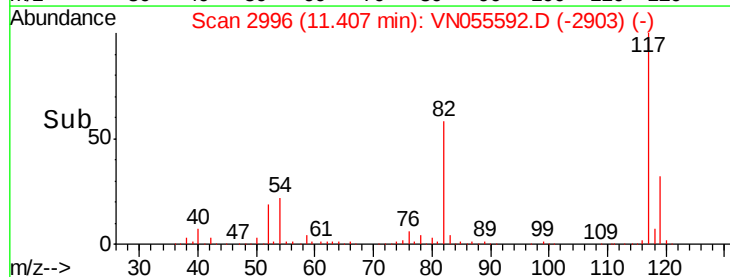
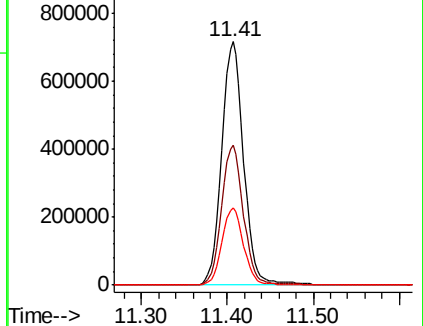
119 32.0 26.0 39.0

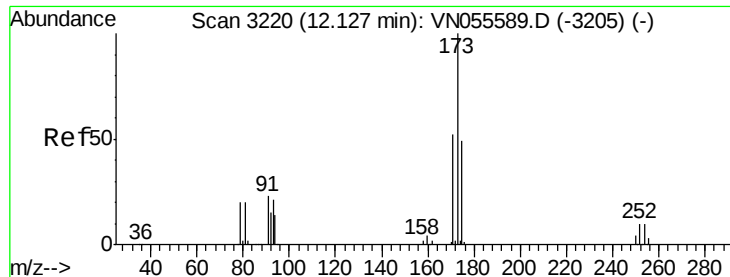


Abundance Ion 116.90 (116.60 to 117.60): VN055589.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN055589.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN055589.D (-2980) (-)





#71

Bromoform

Concen: 0.637 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0514WBL01

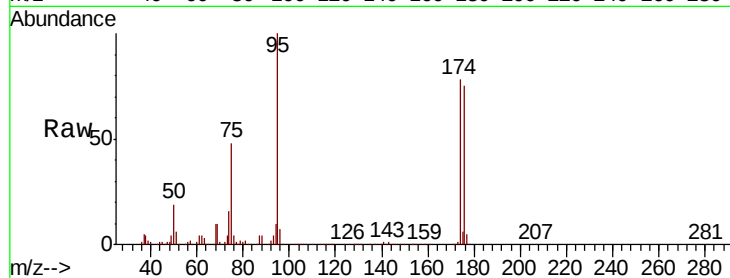
Tot Ion:173 Resp: 3751

Ion Ratio Lower Upper

173 100

175 733.8 24.4 73.4#

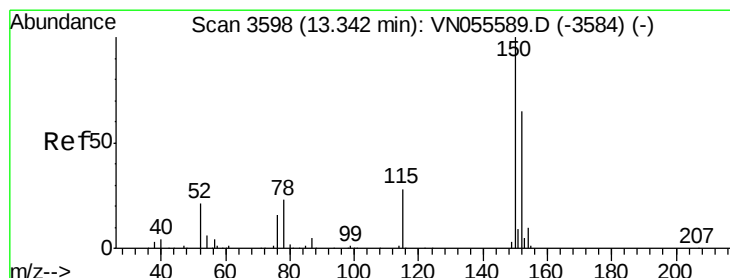
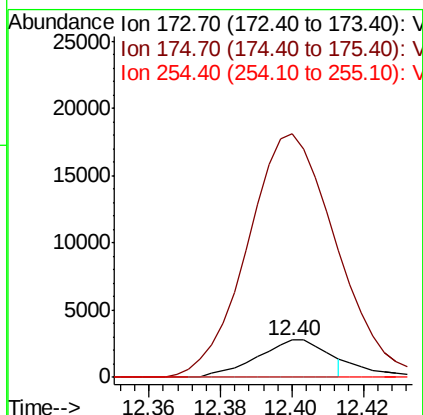
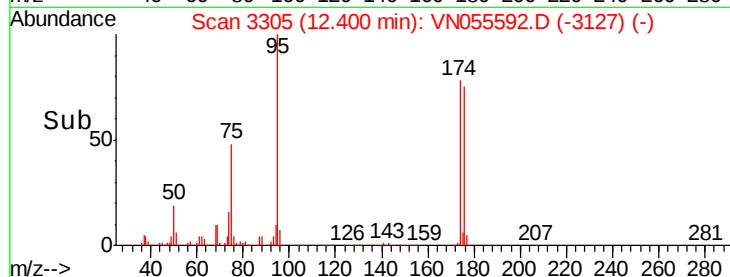
254 0.0 0.1 0.1#



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: VN055592.D

Acq: 14 May 2019 14:36

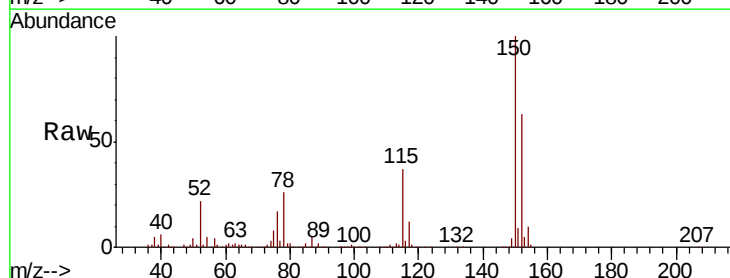
Tgt Ion:152 Resp: 352052

Ion Ratio Lower Upper

152 100

115 59.1 29.8 89.4

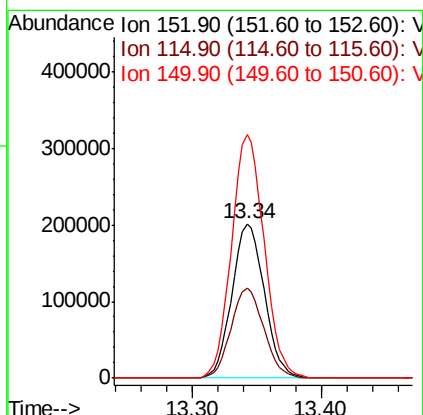
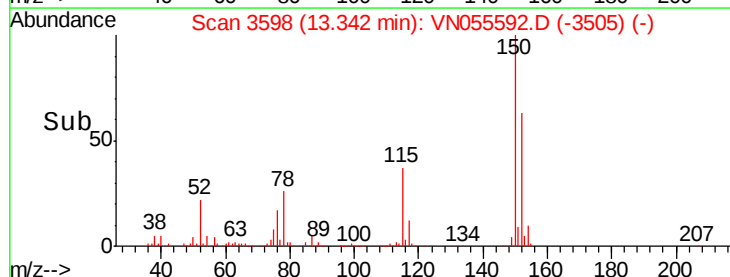
150 158.9 0.0 346.6

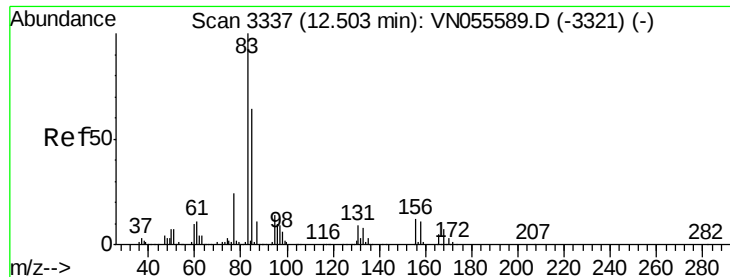


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.50 min Scan# 3335

Delta R.T. -0.01 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampled :

VN0514WBL01

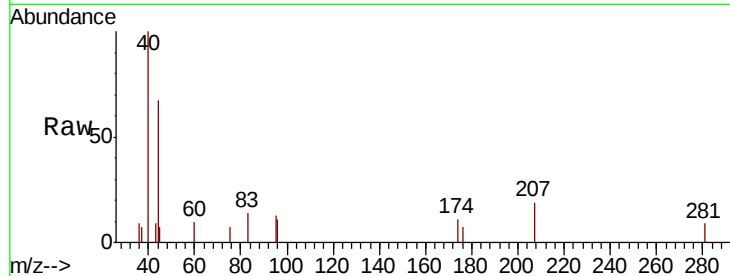
Tot Ion: 83 Resp: 357

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

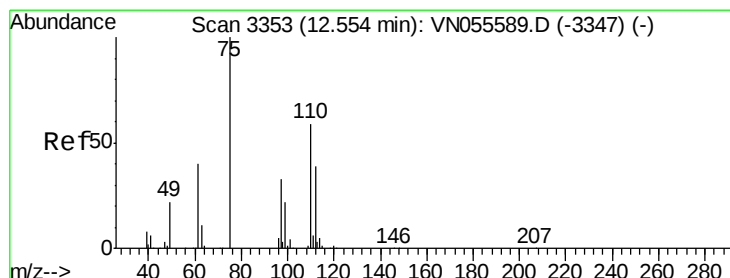
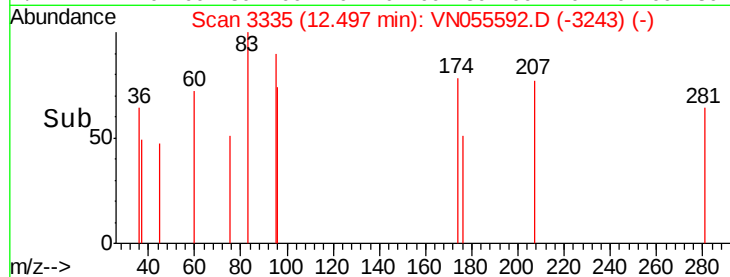
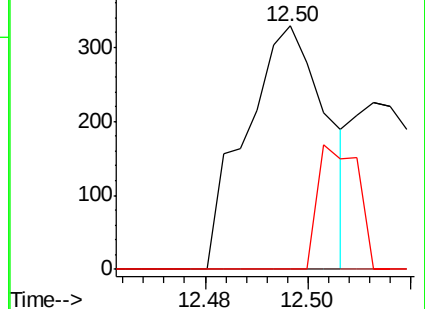
85 25.2 32.2 96.6#



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: 30.262 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055592.D

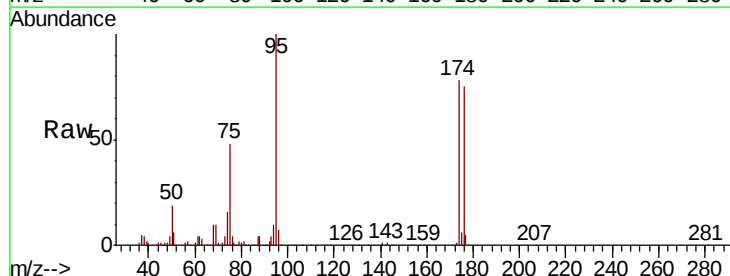
Acq: 14 May 2019 14:36

Tgt Ion: 75 Resp: 263599

Ion Ratio Lower Upper

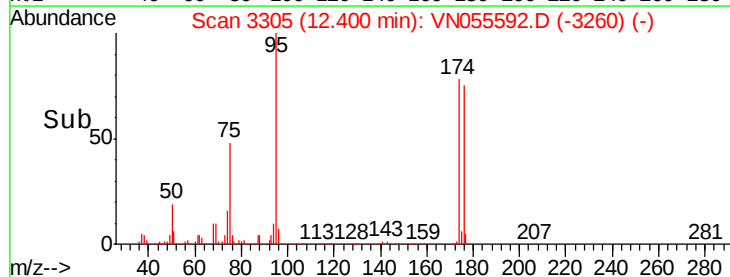
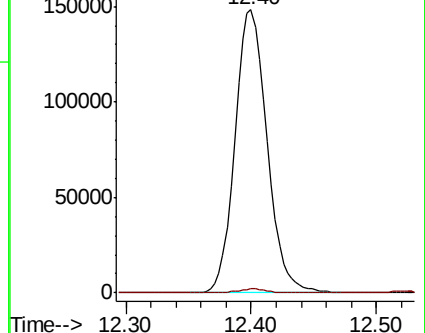
75 100

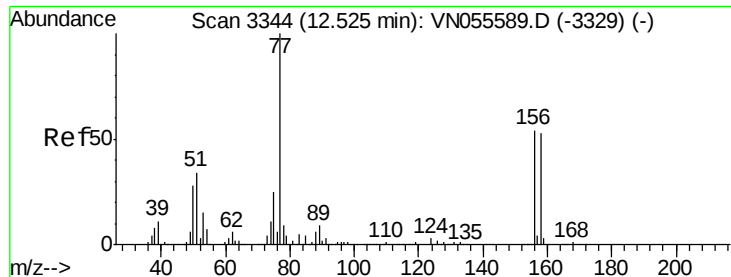
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampled :

VN0514WBL01

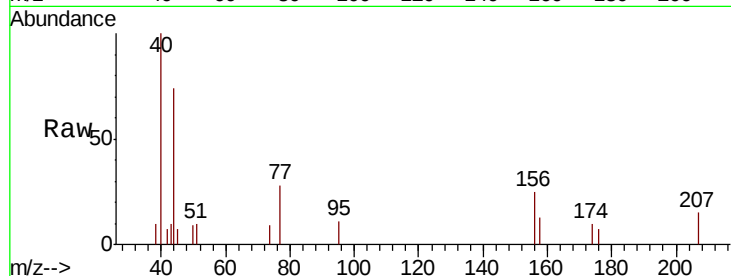
Tot Ion:156 Resp: 553

Ion Ratio Lower Upper

156 100

77 0.0 108.9 326.7#

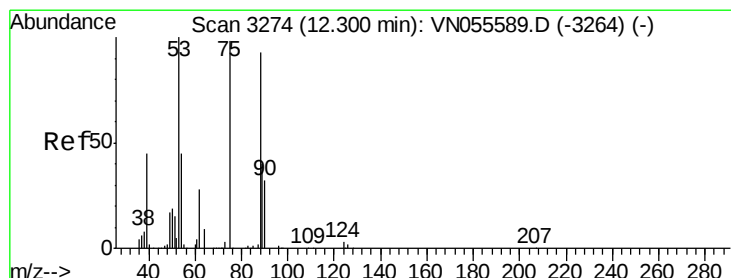
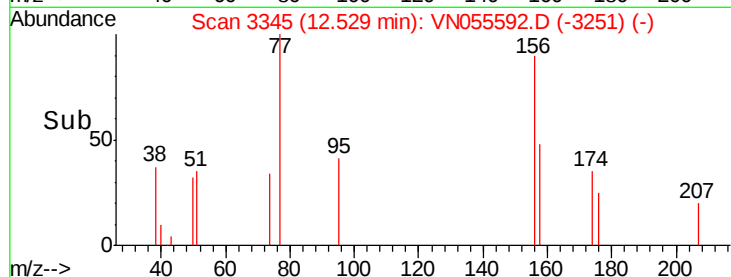
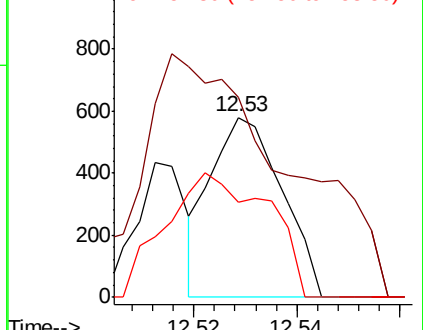
158 100.2 48.1 144.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 107.639 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

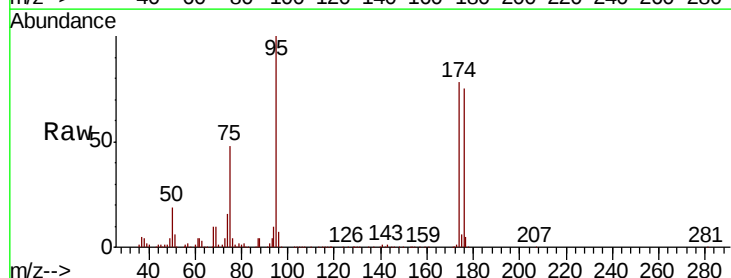
Tgt Ion: 75 Resp: 263599

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

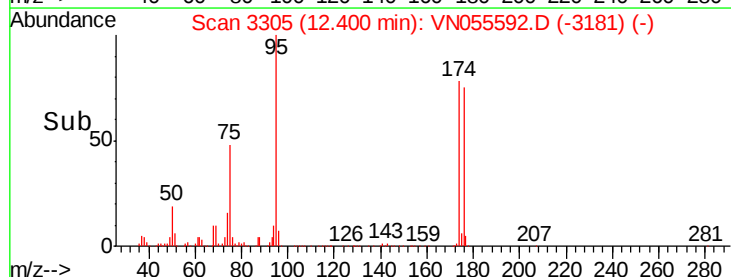
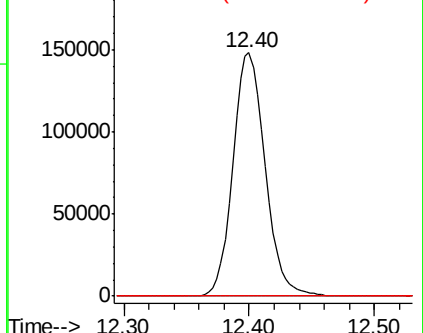
89 0.0 34.7 52.1#

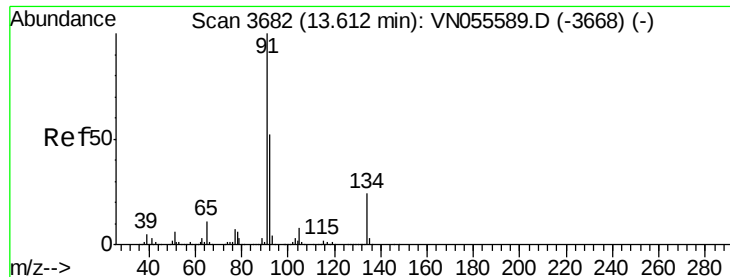


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#89

n-Butylbenzene

Concen: 0.285 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampled :

VN0514WBL01

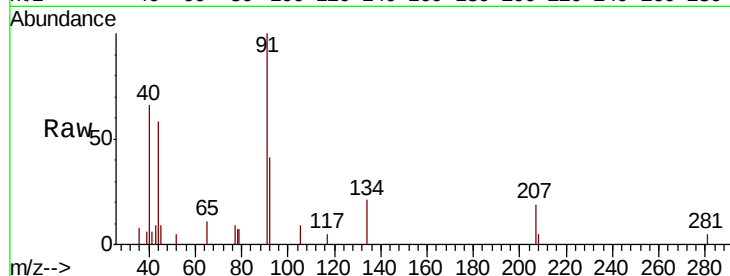
Tot Ion: 91 Resp: 5189

Ion Ratio Lower Upper

91 100

92 44.2 25.9 77.8

134 22.6 12.2 36.4

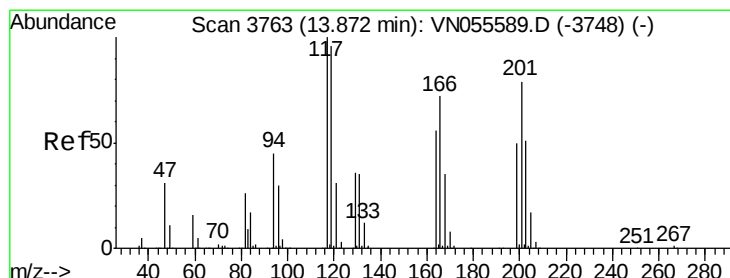
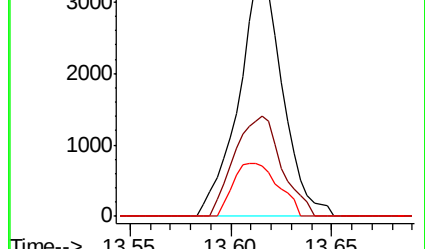
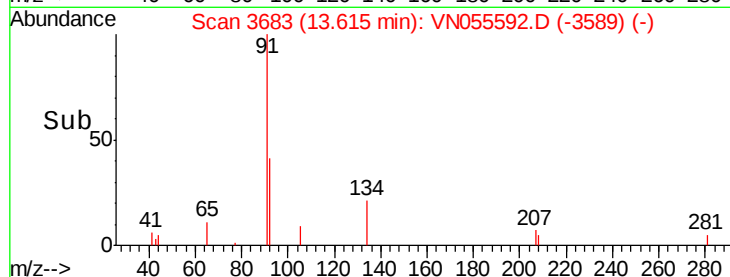


Abundance Ion 91.00 (90.70 to 91.70): VN055589.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN055589.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN055589.D (-3668) (-)

Time-->



#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN055592.D

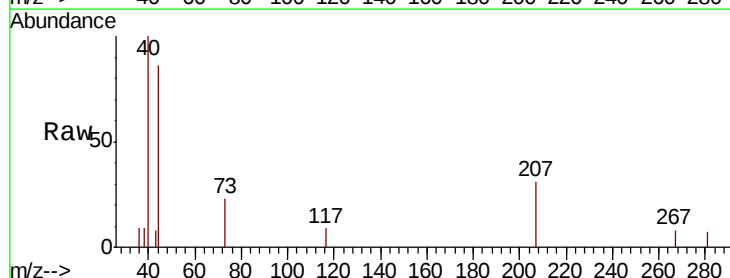
Acq: 14 May 2019 14:36

Tgt Ion: 117 Resp: 200

Ion Ratio Lower Upper

117 100

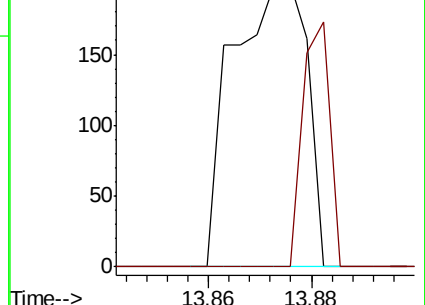
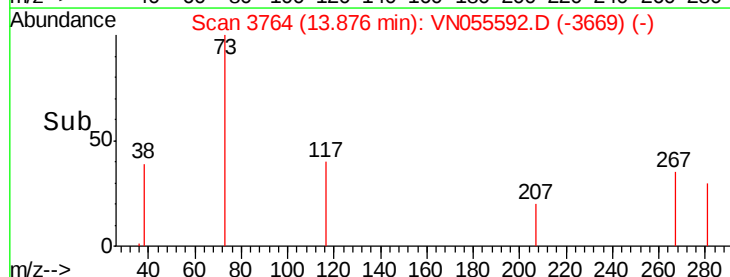
201 31.5 40.6 121.8#

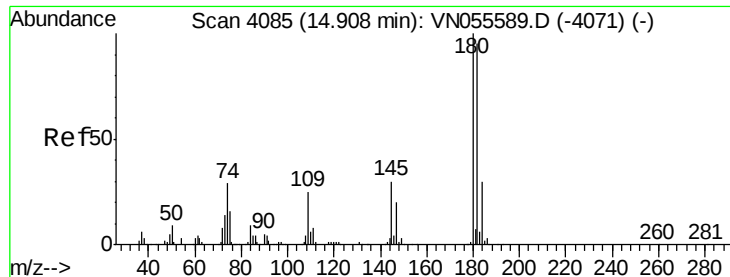


Abundance Ion 116.80 (116.50 to 117.50): VN055589.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN055589.D (-3748) (-)

Time-->

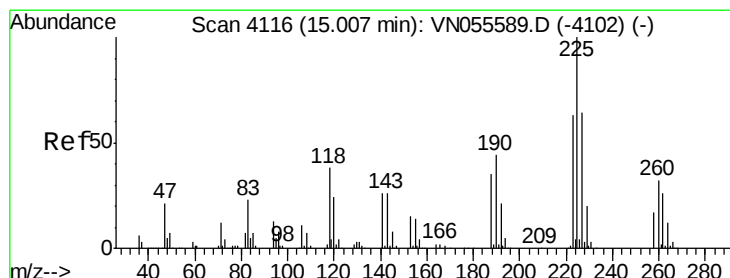
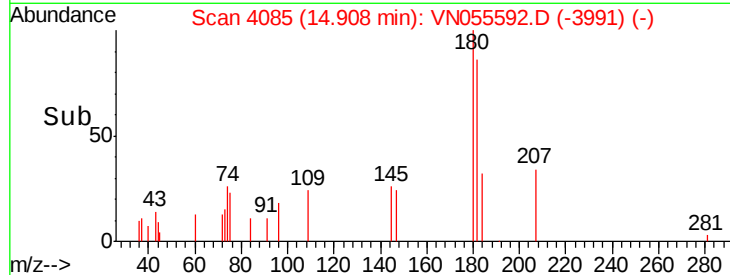
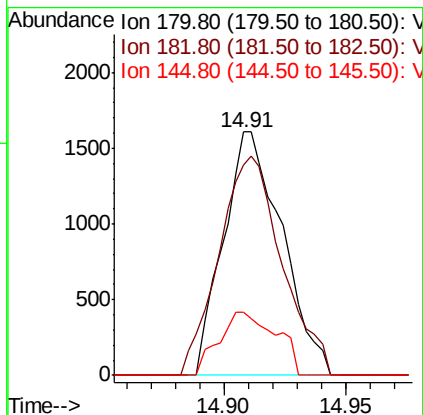
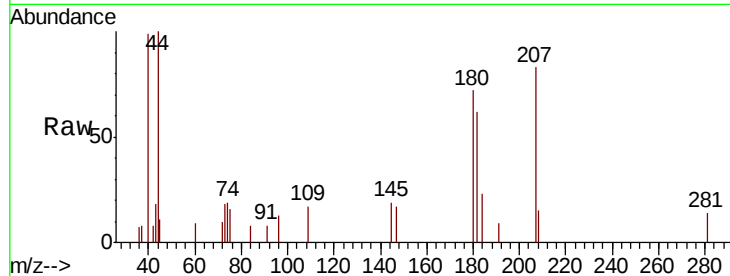




#93
 1,2,4-Trichlorobenzene
 Concen: 3.854 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055592.D
 Acq: 14 May 2019 14:36

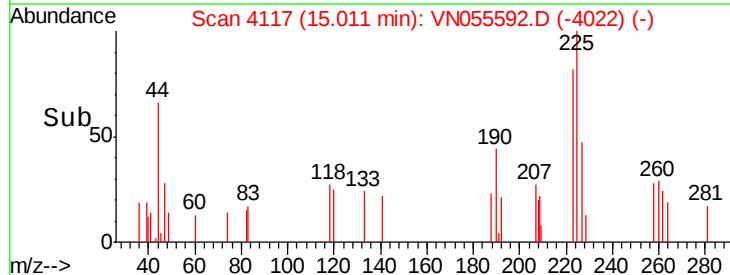
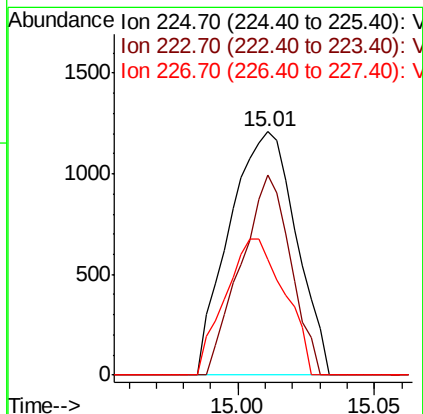
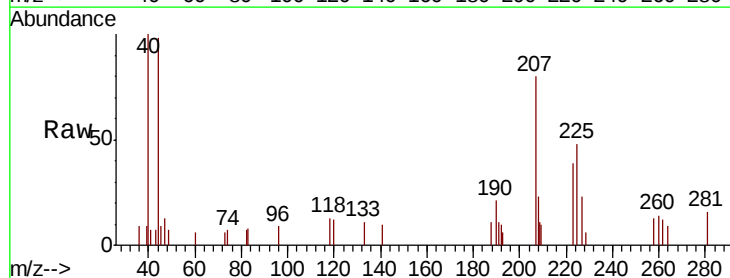
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0514WBL01

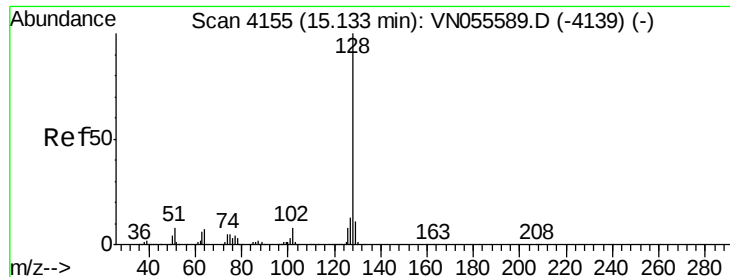
Tot Ion:180 Resp: 2686
 Ion Ratio Lower Upper
 180 100
 182 96.5 47.4 142.3
 145 25.4 14.9 44.7



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN055592.D
 Acq: 14 May 2019 14:36

Tgt Ion:225 Resp: 2051
 Ion Ratio Lower Upper
 225 100
 223 61.3 31.6 95.0
 227 49.8 32.4 97.0





#95

Naphthalene

Concen: 3.556 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

VN0514WBL01

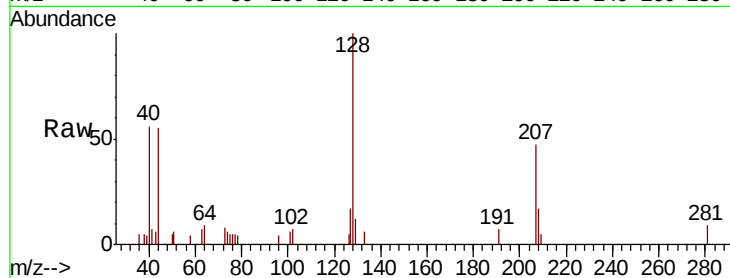
Tot Ion:128 Resp: 8161

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

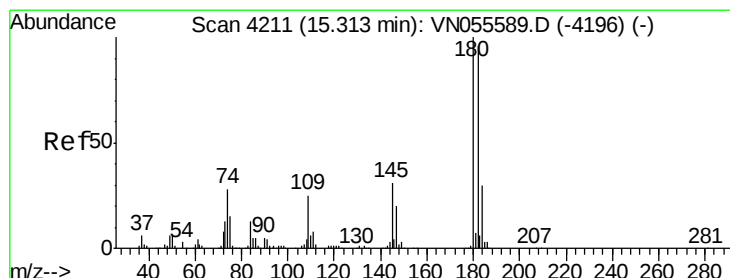
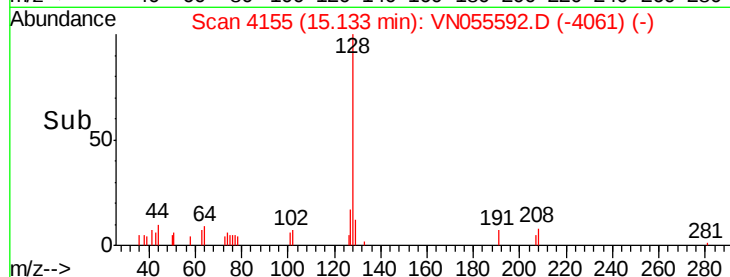
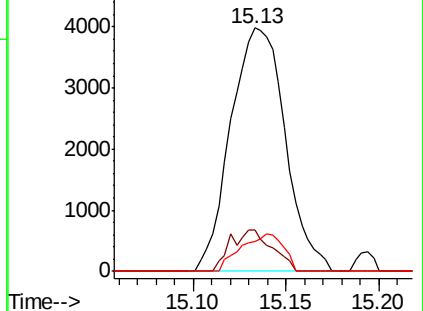
129 11.9 8.8 13.2



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: 3.334 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055592.D

Acq: 14 May 2019 14:36

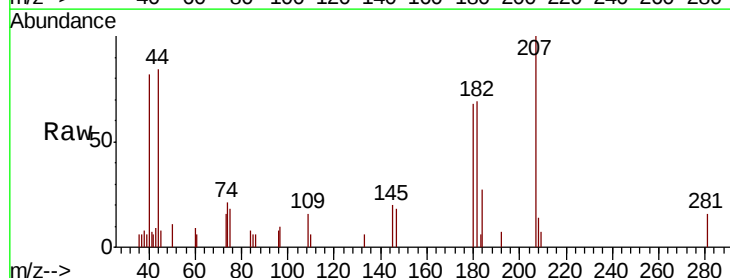
Tgt Ion:180 Resp: 3210

Ion Ratio Lower Upper

180 100

182 89.3 47.9 143.6

145 28.1 15.6 46.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

