

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090219\
 Data File : VN057652.D
 Acq On : 1 Sep 2019 18:34
 Operator : JC/SP
 Sample : K4517-11
 Misc : 6.20g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D4-(2.5)

Quant Time: Sep 02 01:57:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

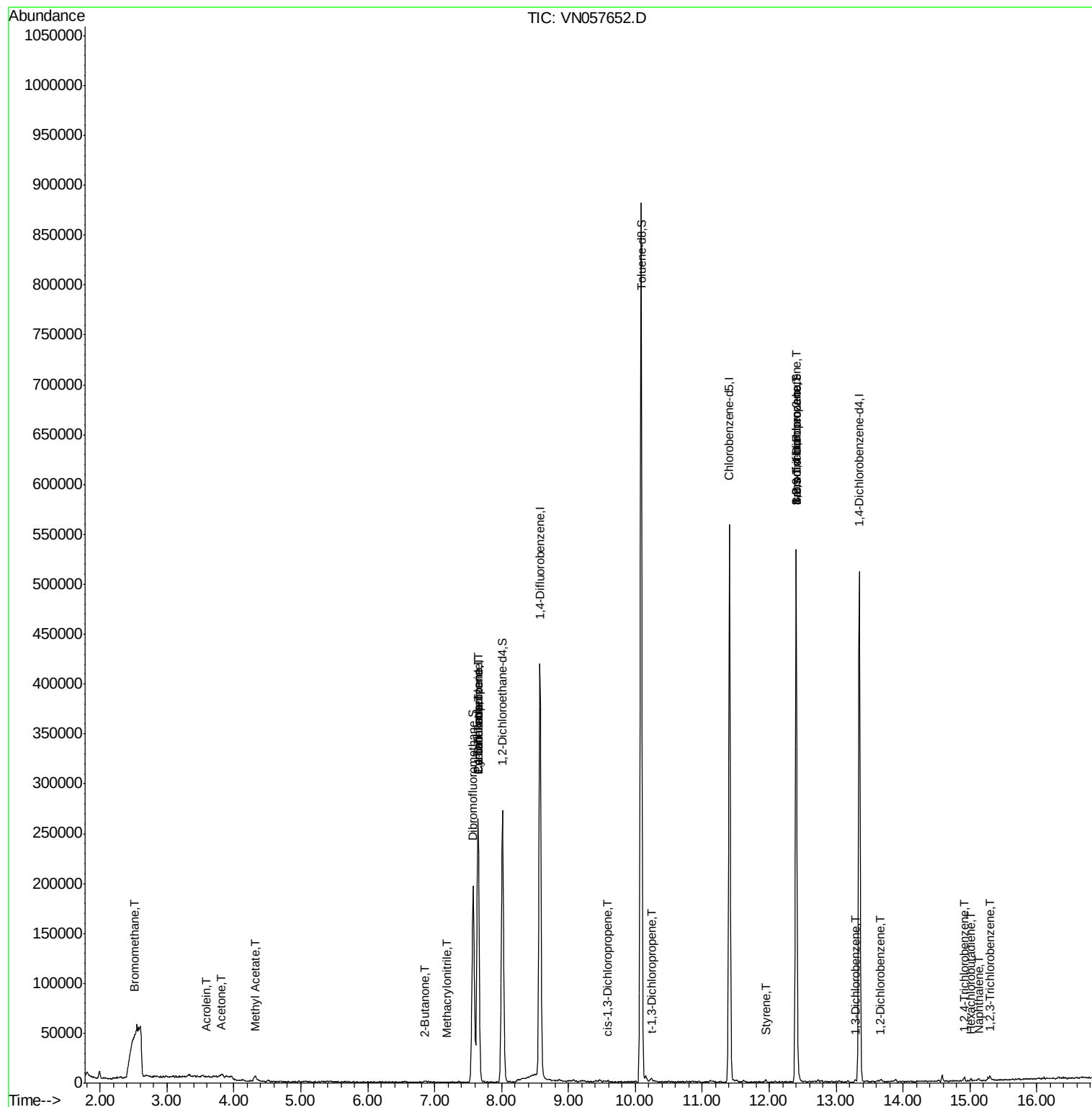
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	186740	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	321309	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	266864	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	115243	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	236782	56.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.26%	
35) Dibromofluoromethane	7.58	113	141053	50.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.54%	
50) Toluene-d8	10.08	98	554911	51.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	12.40	95	176889	43.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.36%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.50	94	986	0.578	ug/l #	58
13) Acrolein	3.59	56	201	1.143	ug/l #	43
16) Acetone	3.81	43	760	0.643	ug/l #	50
18) Methyl Acetate	4.32	43	10922	2.691	ug/l #	75
25) 2-Butanone	6.84	43	1226	0.622	ug/l	97
31) Cyclohexane	7.65	56	6267	1.121	ug/l #	44
36) 1,1-Dichloropropene	7.64	75	19438	4.563	ug/l #	52
38) Carbon Tetrachloride	7.65	117	22140	5.806	ug/l #	15
41) Methacrylonitrile	7.19	41	31	2.296	ug/l #	21
53) t-1,3-Dichloropropene	10.24	75	655	3.347	ug/l #	45
54) cis-1,3-Dichloropropene	9.59	75	599	1.921	ug/l #	24
70) Styrene	11.96	104	159	2.602	ug/l #	50
71) Bromoform	12.41	173	754	6.600	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	105201	34.704	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	105201	118.958	ug/l #	1
87) 1,3-Dichlorobenzene	13.28	146	869	0.215	ug/l #	48
91) 1,2-Dichlorobenzene	13.66	146	871	0.226	ug/l #	55
93) 1,2,4-Trichlorobenzene	14.91	180	1391	8.990	ug/l #	88
94) Hexachlorobutadiene	15.01	225	559	0.423	ug/l #	31
95) Naphthalene	15.13	128	2043	7.257	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.30	180	1093	8.316	ug/l	87

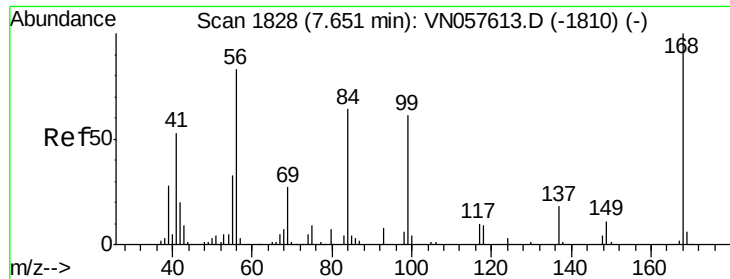
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 31 15:54:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

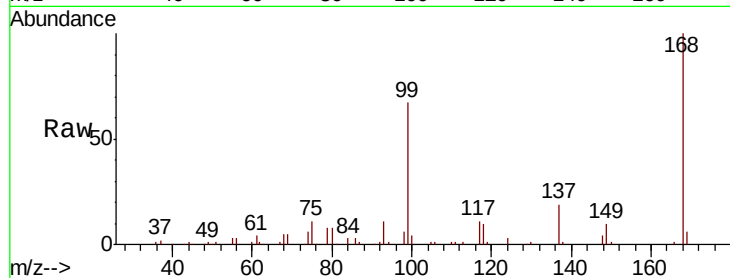
T4-S-D4-(2.5)

Tgt Ion:168 Resp: 186740

Ion Ratio Lower Upper

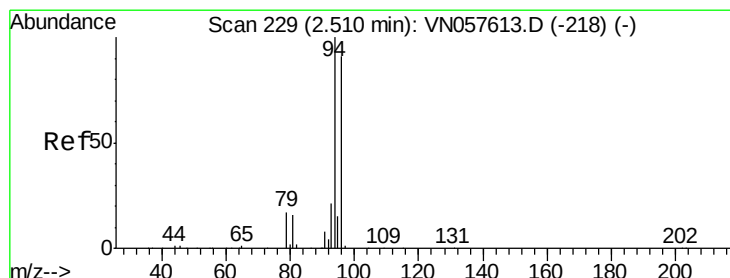
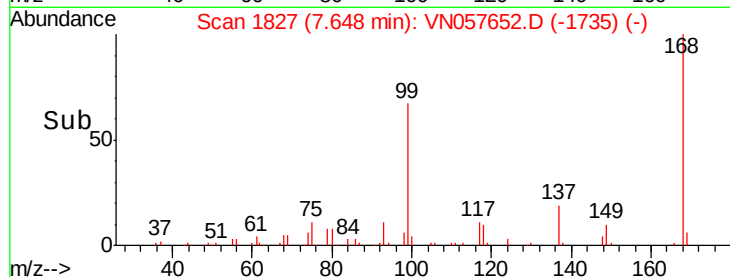
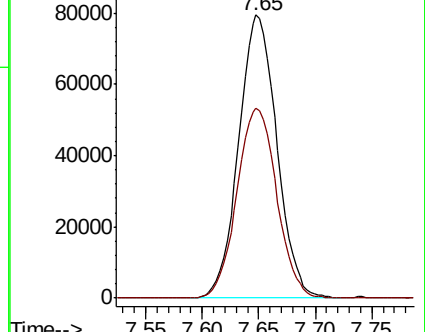
168 100

99 67.2 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN057613.D (-1810) (-)

Ion 98.90 (98.60 to 99.60): VN057613.D (-1810) (-)



#5

Bromomethane

Concen: 0.578 ug/l

RT: 2.50 min Scan# 227

Delta R.T. -0.01 min

Lab File: VN057652.D

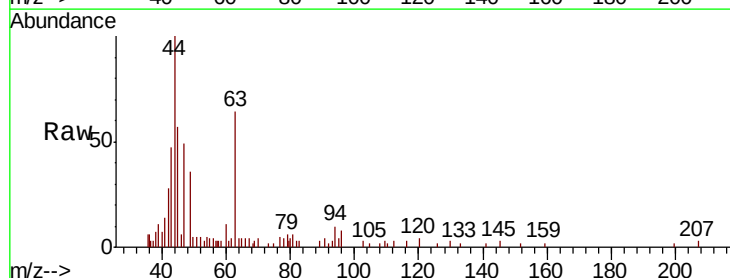
Acq: 1 Sep 2019 18:34

Tgt Ion: 94 Resp: 986

Ion Ratio Lower Upper

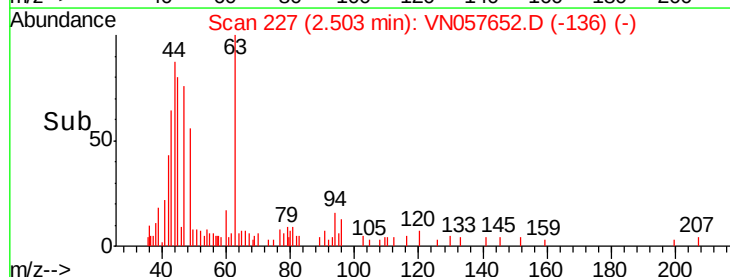
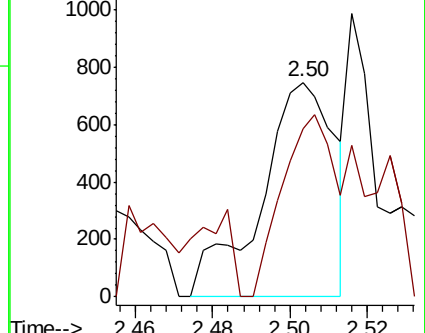
94 100

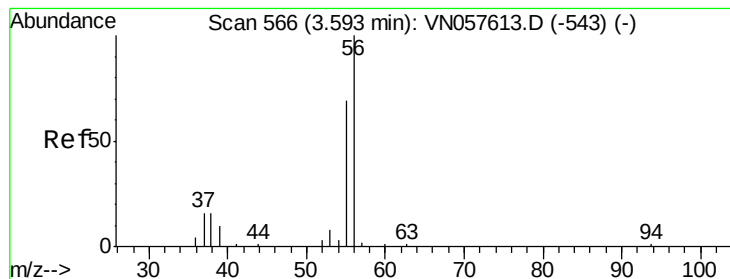
96 51.2 72.9 109.3#



Abundance Ion 93.90 (93.60 to 94.60): VN057613.D (-218) (-)

Ion 95.90 (95.60 to 96.60): VN057613.D (-218) (-)





#13

Acrolein

Concen: 1.143 ug/l

RT: 3.59 min Scan# 565

Delta R.T. -0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

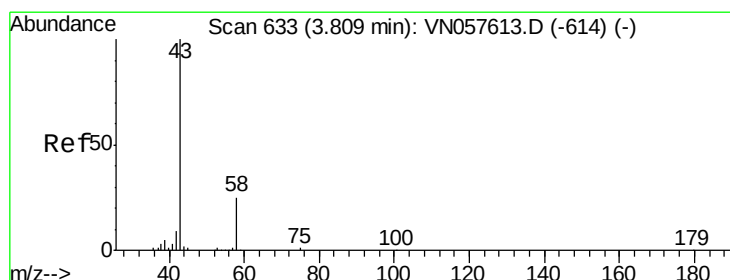
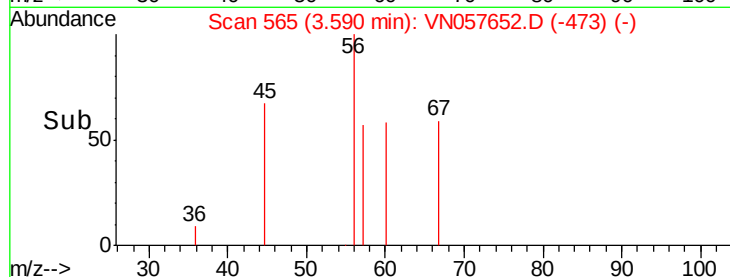
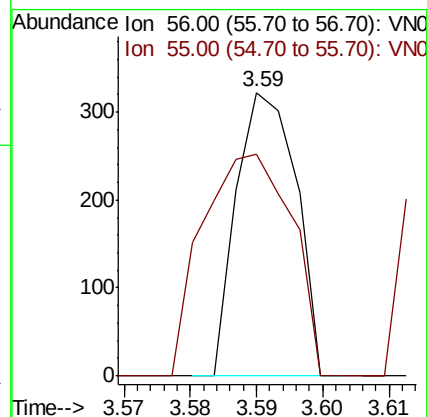
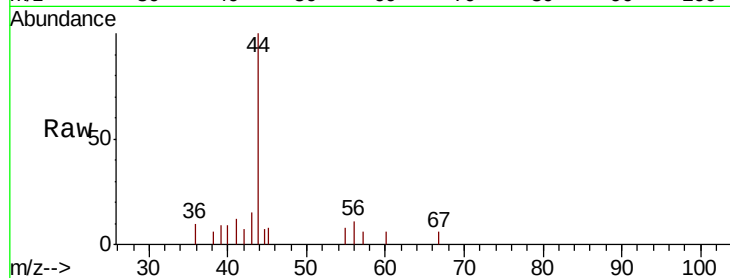
T4-S-D4-(2.5)

Tgt Ion: 56 Resp: 201

Ion Ratio Lower Upper

56 100

55 117.4 56.5 84.7#



#16

Acetone

Concen: 0.643 ug/l

RT: 3.81 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN057652.D

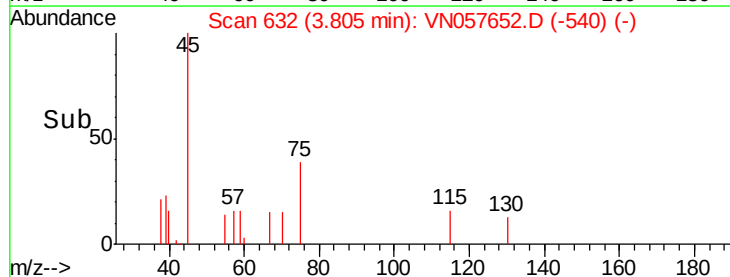
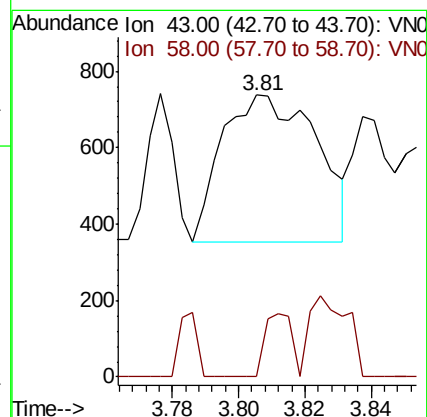
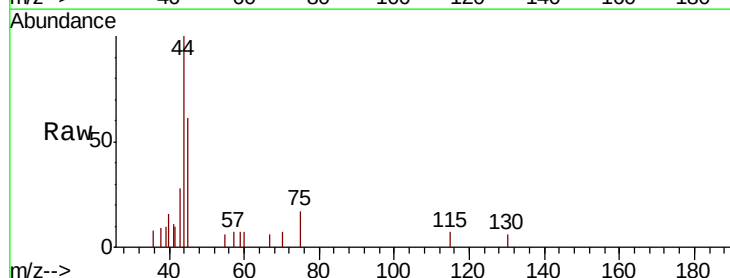
Acq: 1 Sep 2019 18:34

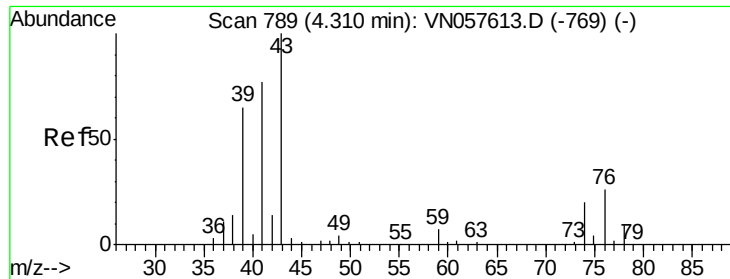
Tgt Ion: 43 Resp: 760

Ion Ratio Lower Upper

43 100

58 0.0 20.0 30.0#

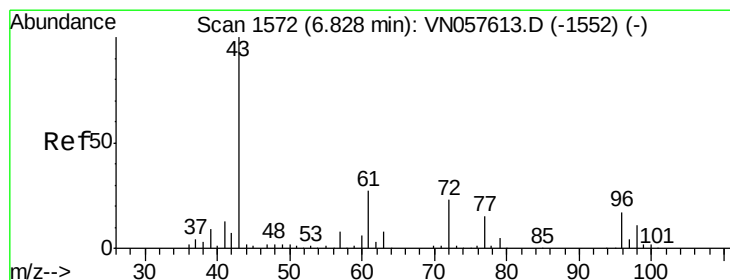
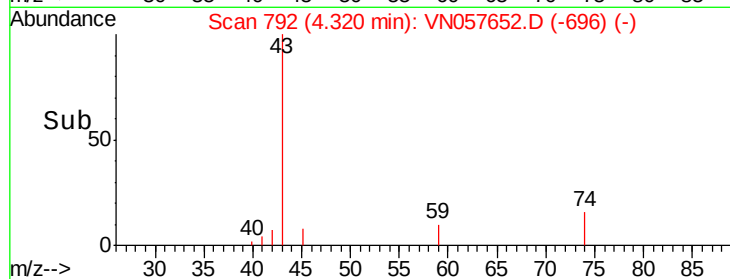
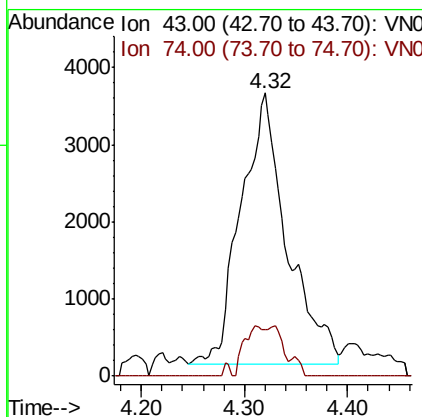
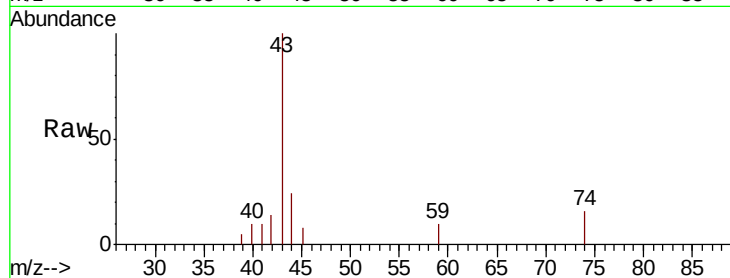




#18
Methyl Acetate
Concen: 2.691 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN057652.D
Acq: 1 Sep 2019 18:34

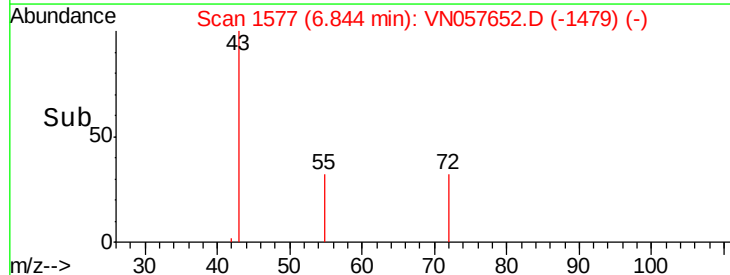
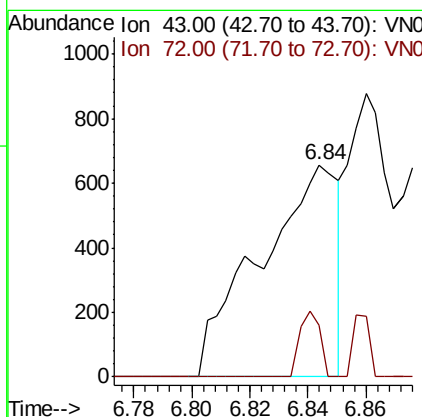
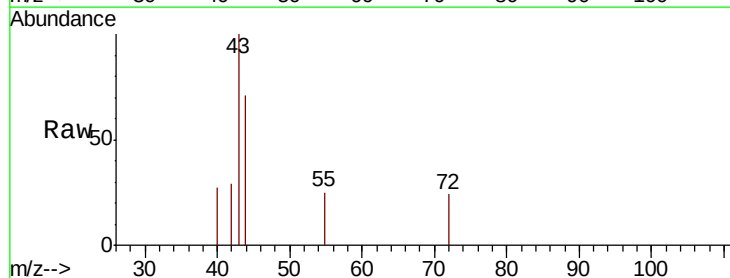
Instrument :
MSVOA_N
ClientSampled :
T4-S-D4-(2.5)

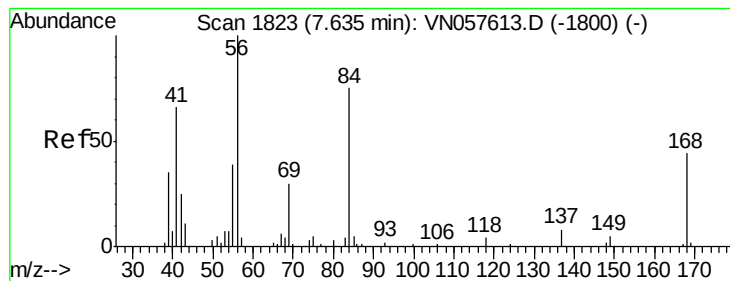
Tgt Ion: 43 Resp: 10922
Ion Ratio Lower Upper
43 100
74 8.4 15.7 23.5#



#25
2-Butanone
Concen: 0.622 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.02 min
Lab File: VN057652.D
Acq: 1 Sep 2019 18:34

Tgt Ion: 43 Resp: 1226
Ion Ratio Lower Upper
43 100
72 24.4 18.2 27.4





#31

Cyclohexane

Concen: 1.121 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.02 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D4-(2.5)

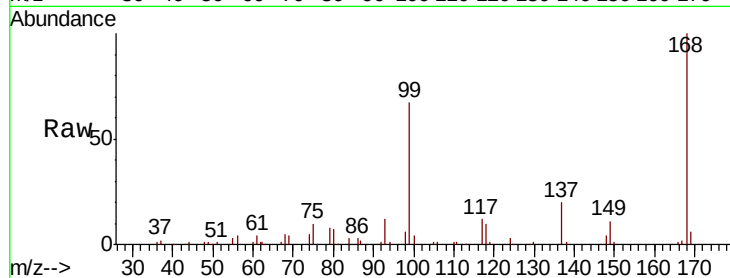
Tgt Ion: 56 Resp: 6267

Ion Ratio Lower Upper

56 100

69 120.1 24.4 36.6#

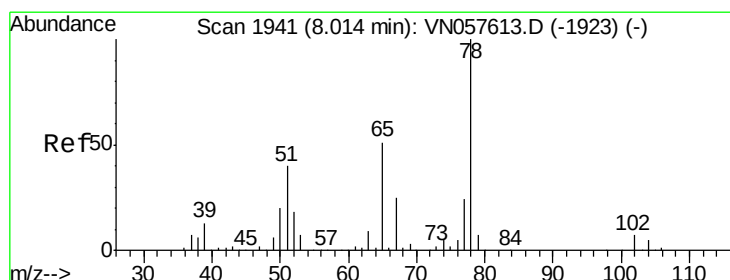
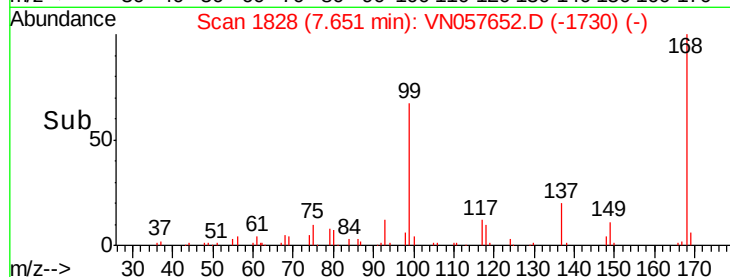
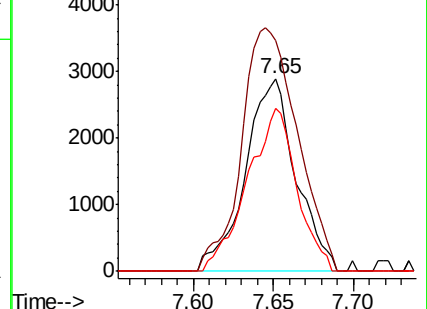
84 84.9 59.9 89.9



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 56.131 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057652.D

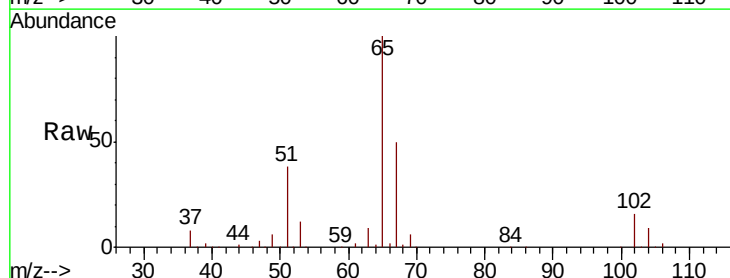
Acq: 1 Sep 2019 18:34

Tgt Ion: 65 Resp: 236782

Ion Ratio Lower Upper

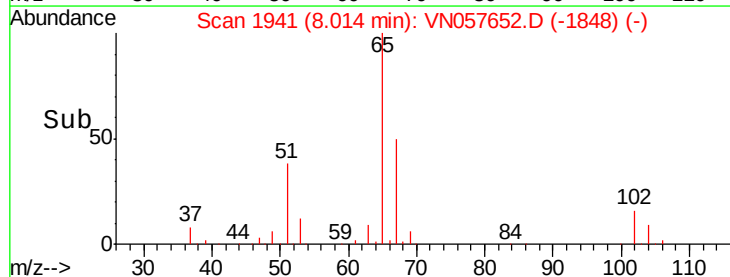
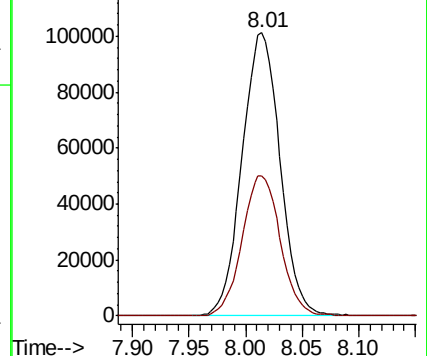
65 100

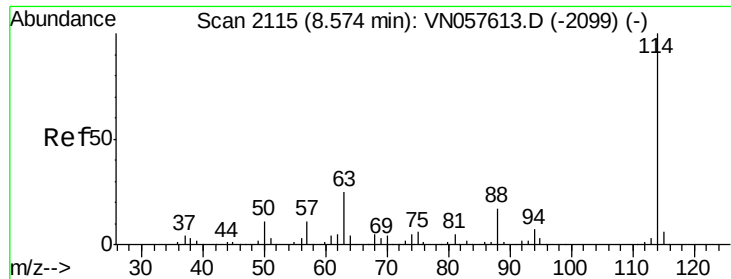
67 49.9 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

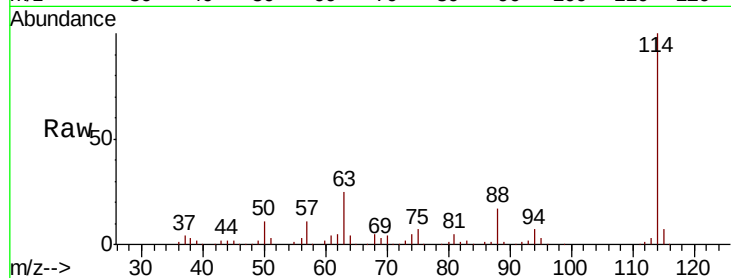




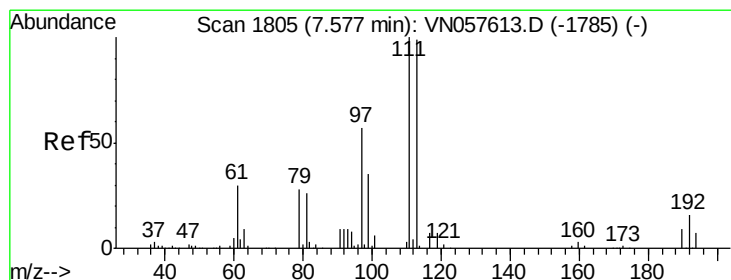
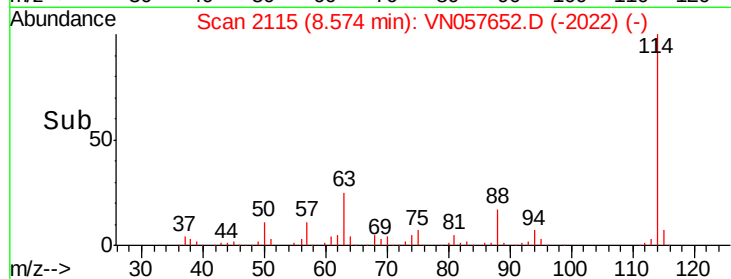
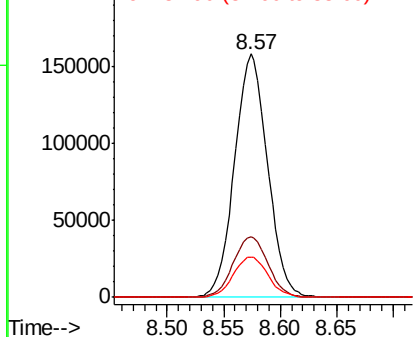
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D4-(2.5)

Tgt Ion:114 Resp: 321309
 Ion Ratio Lower Upper
 114 100
 63 24.9 0.0 49.0
 88 16.6 0.0 33.0

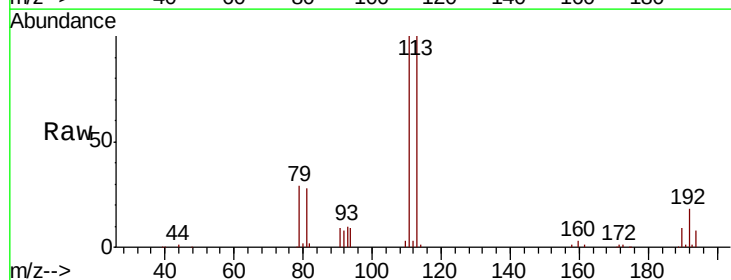


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

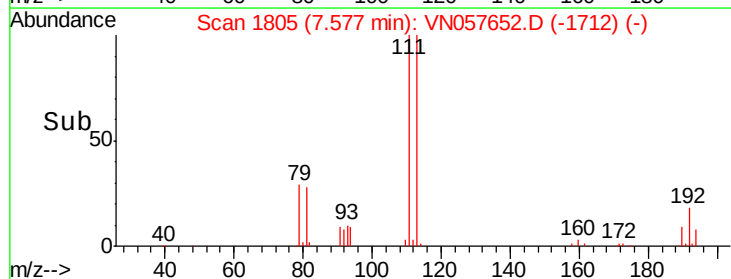
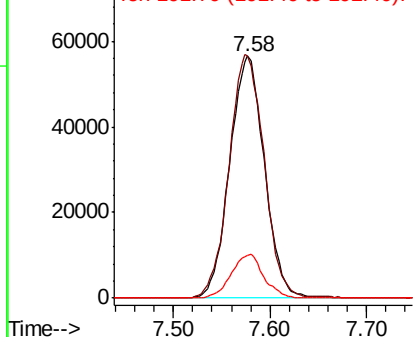


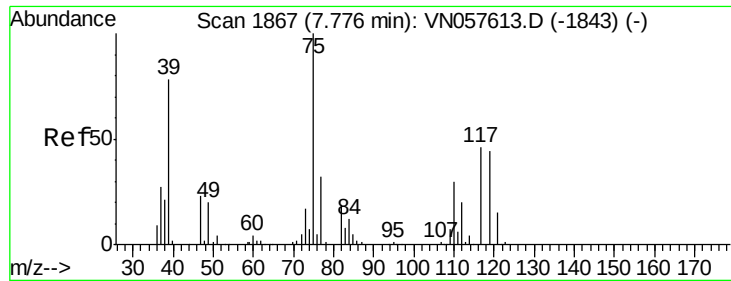
#35
 Dibromofluoromethane
 Concen: 50.270 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

Tgt Ion:113 Resp: 141053
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.3 121.9
 192 16.8 13.5 20.3



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

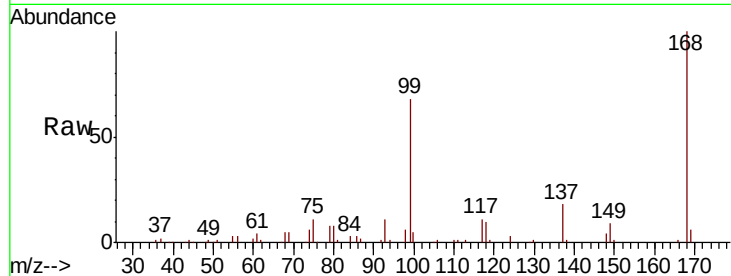




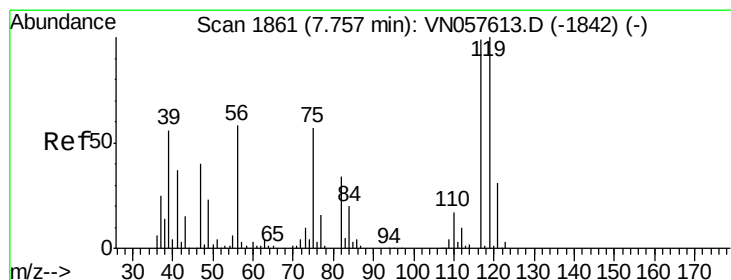
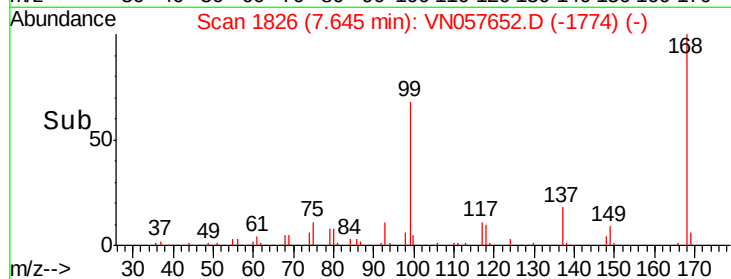
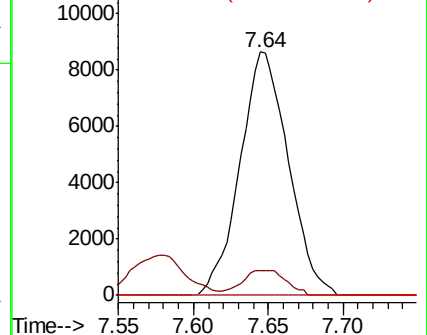
#36
 1,1-Dichloropropene
 Concen: 4.563 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D4-(2.5)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	15.6	46.8#
77	0.0	24.9	37.3#

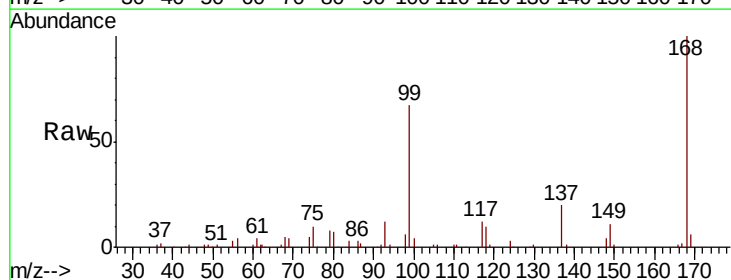


Abundance Ion 74.90 (74.60 to 75.60): VN057613.D (-1843) (-)
 Ion 109.90 (109.60 to 110.60): VN057613.D (-1843) (-)
 Ion 76.90 (76.60 to 77.60): VN057613.D (-1843) (-)

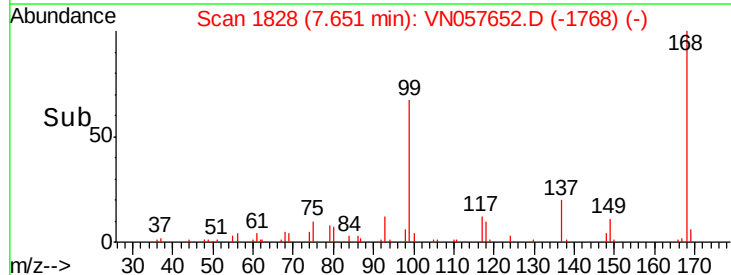
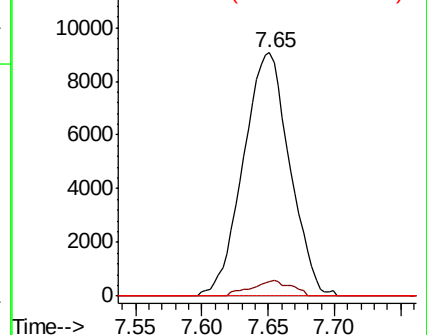


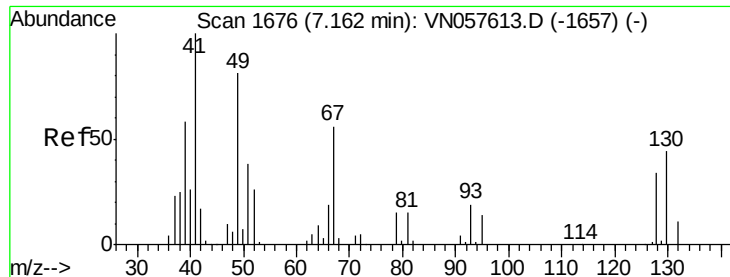
#38
 Carbon Tetrachloride
 Concen: 5.806 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	80.6	120.8#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN057613.D (-1842) (-)
 Ion 118.80 (118.50 to 119.50): VN057613.D (-1842) (-)
 Ion 120.80 (120.50 to 121.50): VN057613.D (-1842) (-)





#41

Methacrylonitrile

Concen: 2.296 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.03 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

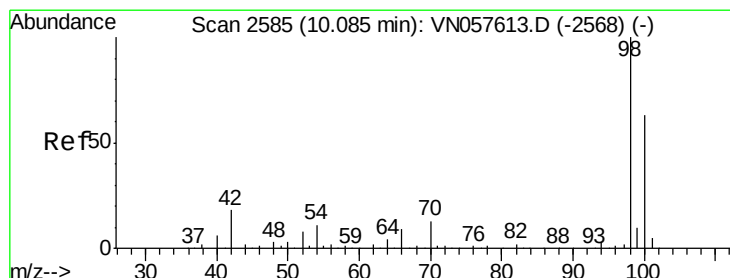
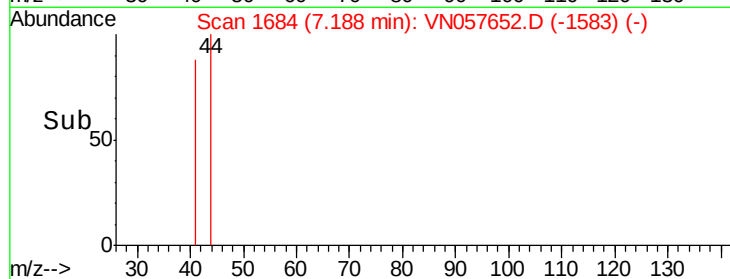
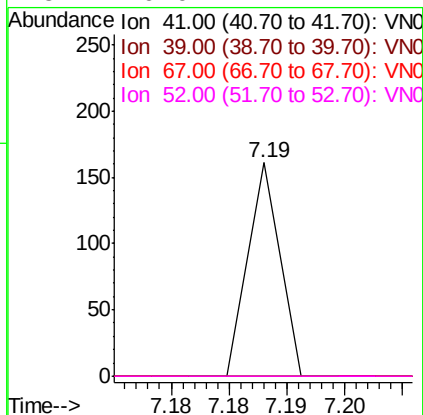
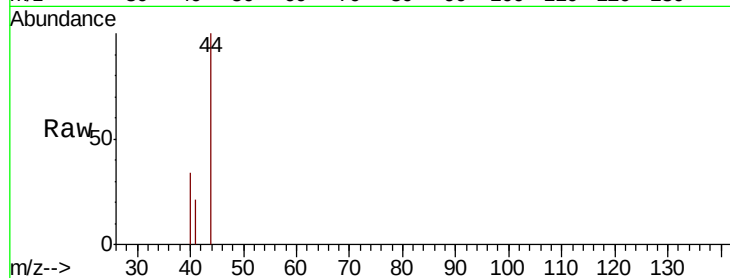
Instrument :

MSVOA_N

ClientSampleId :

T4-S-D4-(2.5)

Tgt Ion:	41	Resp:	31
Ion	Ratio	Lower	Upper
41	100		
39	0.0	50.6	75.8#
67	0.0	56.9	85.3#
52	0.0	27.4	41.2#



#50

Toluene-d8

Concen: 51.511 ug/l

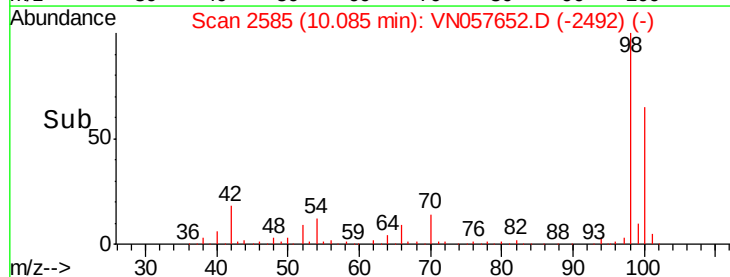
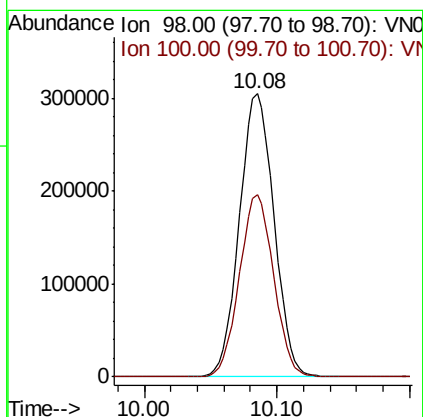
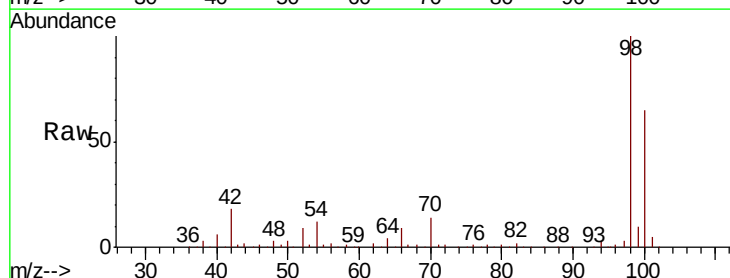
RT: 10.08 min Scan# 2585

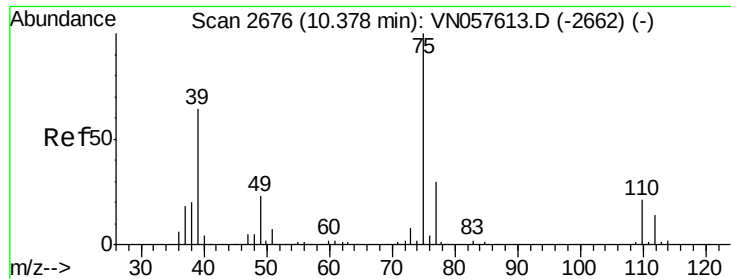
Delta R.T. 0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Tgt Ion:	98	Resp:	554911
Ion	Ratio	Lower	Upper
98	100		
100	63.5	49.8	74.8

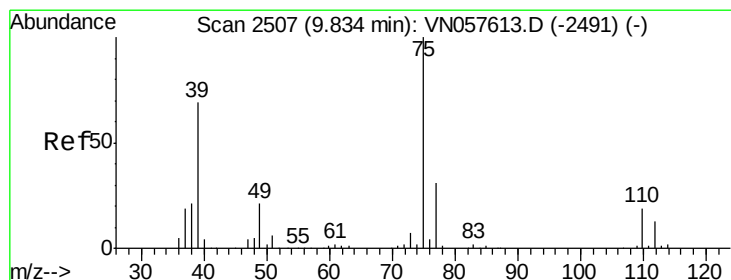
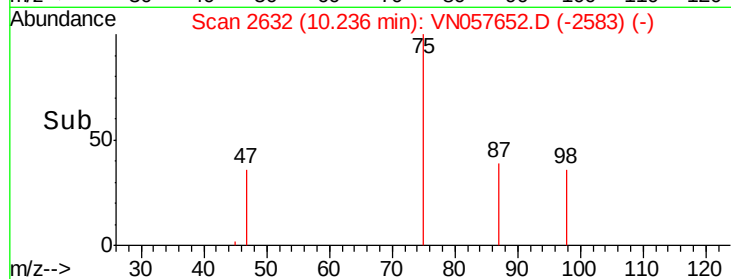
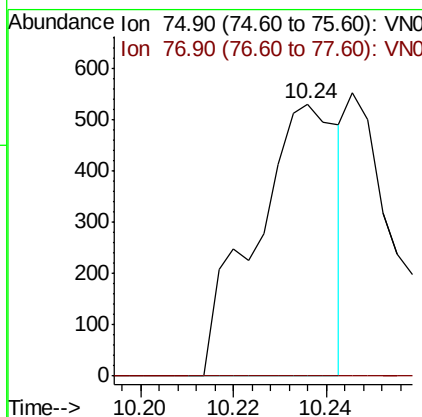
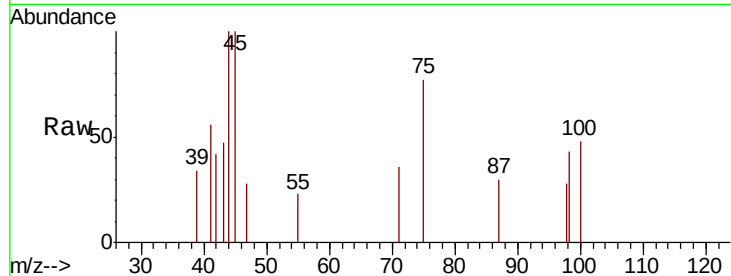




#53
 t-1,3-Dichloropropene
 Concen: 3.347 ug/l
 RT: 10.24 min Scan# 2632
 Delta R.T. -0.14 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

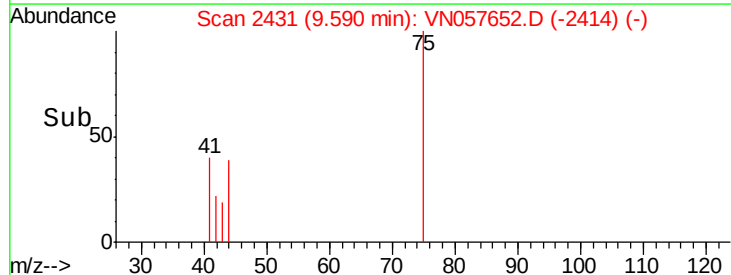
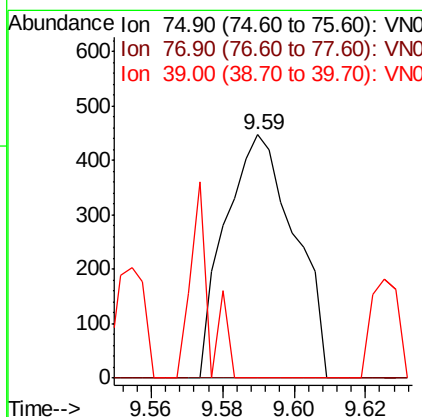
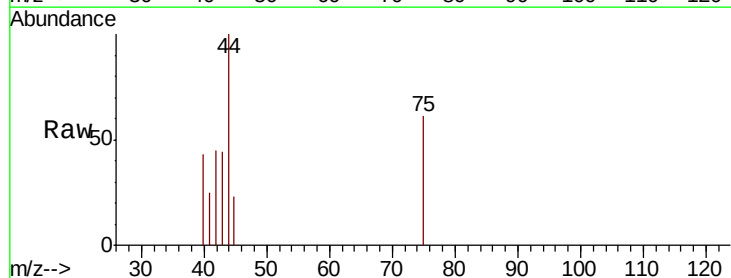
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D4-(2.5)

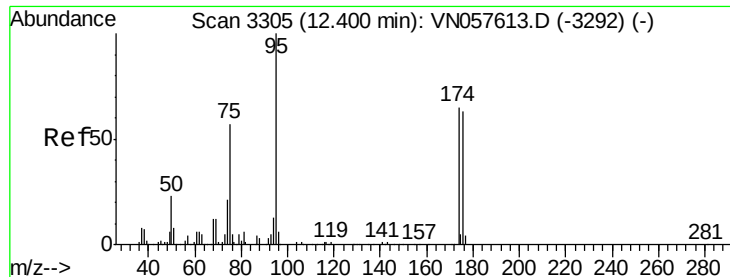
Tgt Ion: 75 Resp: 655
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.1 36.1#



#54
 cis-1,3-Dichloropropene
 Concen: 1.921 ug/l
 RT: 9.59 min Scan# 2431
 Delta R.T. -0.24 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

Tgt Ion: 75 Resp: 599
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 0.0 55.0 82.4#





#62

4-Bromofluorobenzene

Concen: 43.181 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampled :

T4-S-D4-(2.5)

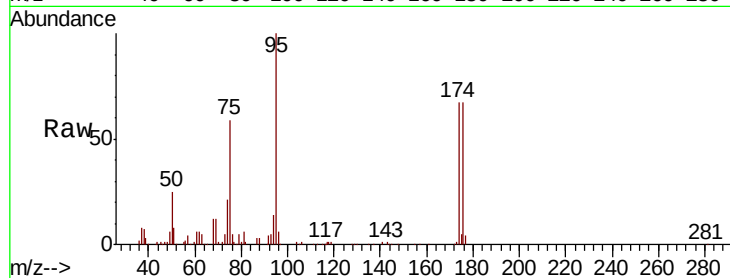
Tgt Ion: 95 Resp: 176889

Ion Ratio Lower Upper

95 100

174 66.0 0.0 134.8

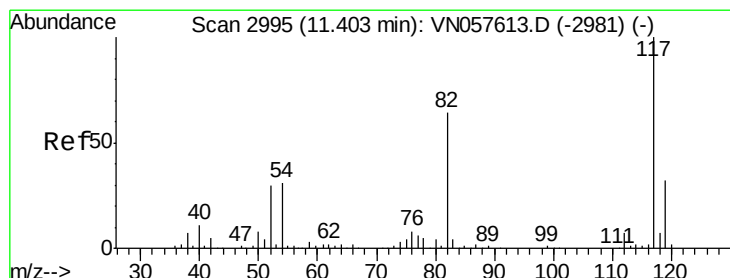
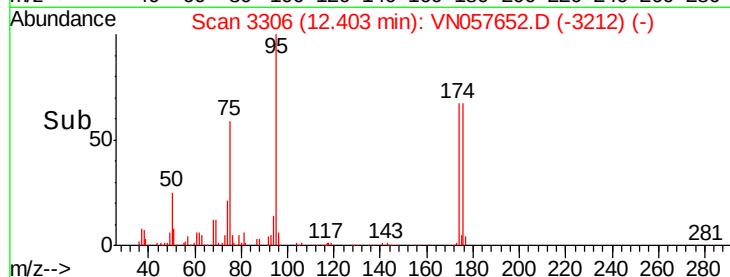
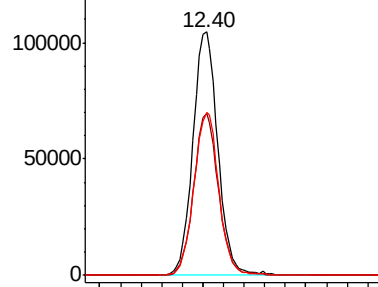
176 66.5 0.0 131.6



Abundance Ion 94.90 (94.60 to 95.60): VN057613.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN057613.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN057613.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

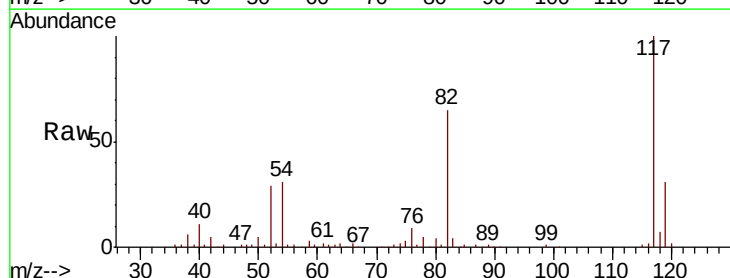
Tgt Ion: 117 Resp: 266864

Ion Ratio Lower Upper

117 100

82 64.5 51.6 77.4

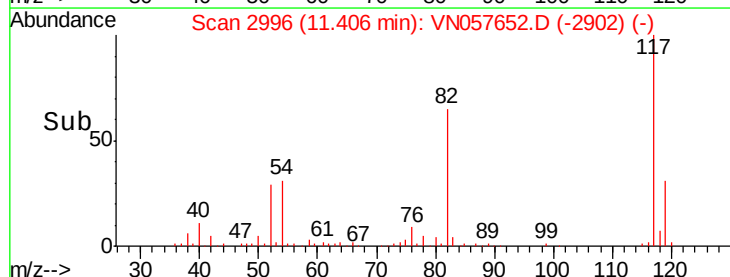
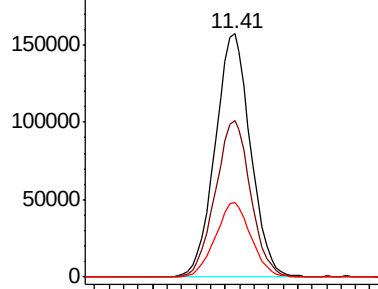
119 30.6 25.8 38.6

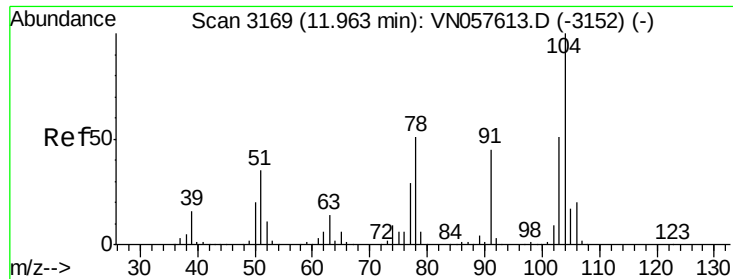


Abundance Ion 116.90 (116.60 to 117.60): VN057613.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057613.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057613.D (-2981) (-)





#70

Styrene

Concen: 2.602 ug/l

RT: 11.96 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampled :

T4-S-D4-(2.5)

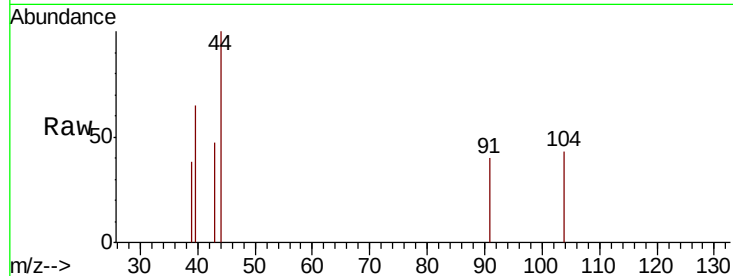
Tgt Ion:104 Resp: 159

Ion Ratio Lower Upper

104 100

78 39.6 46.6 70.0#

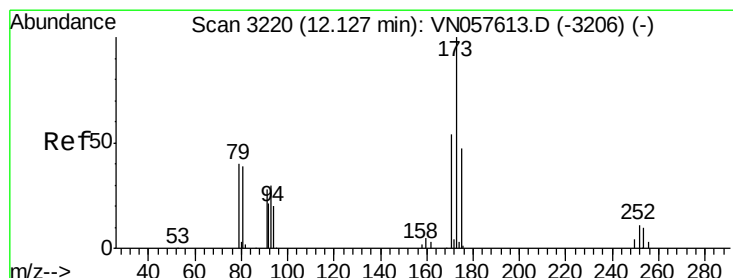
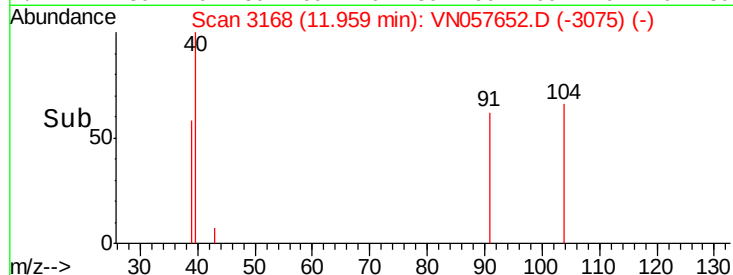
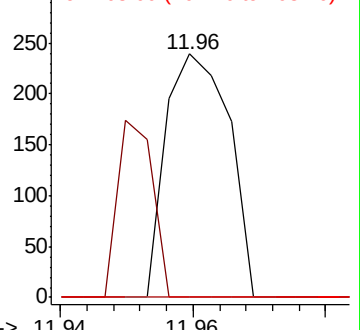
103 0.0 44.7 67.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 6.600 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

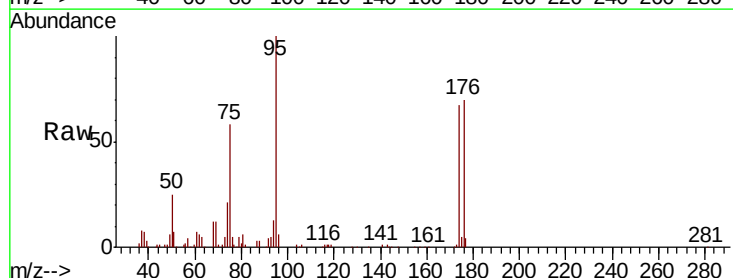
Tgt Ion:173 Resp: 754

Ion Ratio Lower Upper

173 100

175 991.8 24.4 73.4#

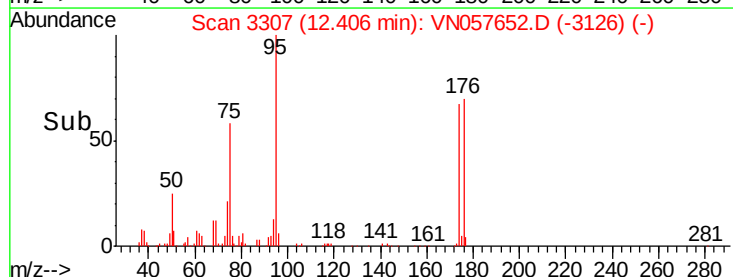
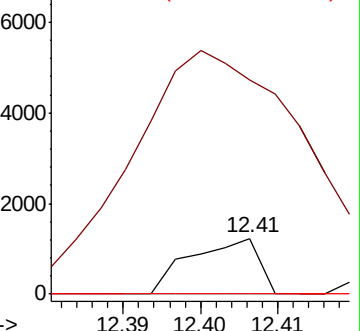
254 0.0 0.0 0.0

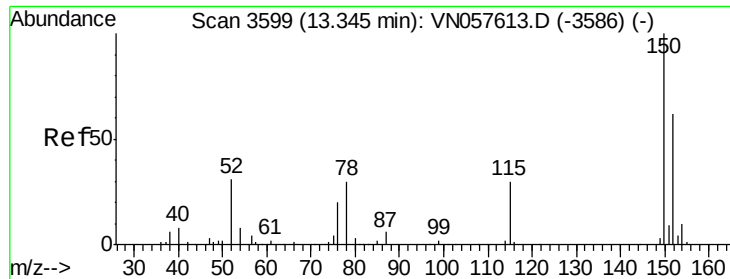


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D4-(2.5)

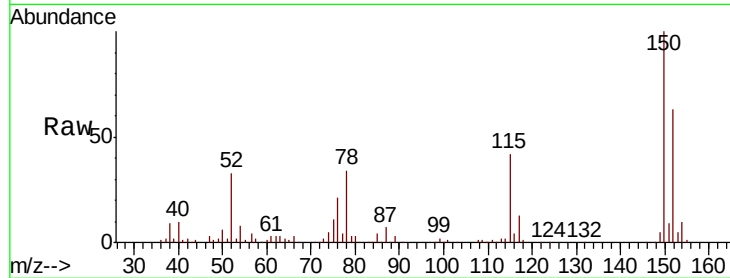
Tgt Ion:152 Resp: 115243

Ion Ratio Lower Upper

152 100

115 66.3 33.2 99.6

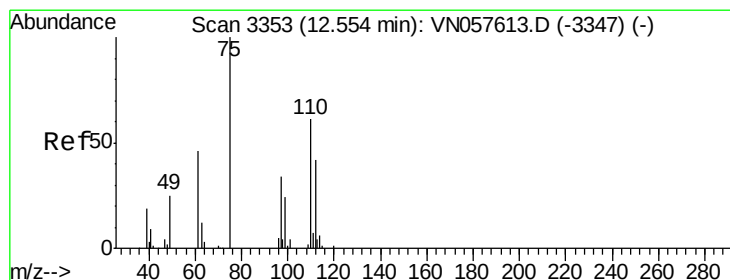
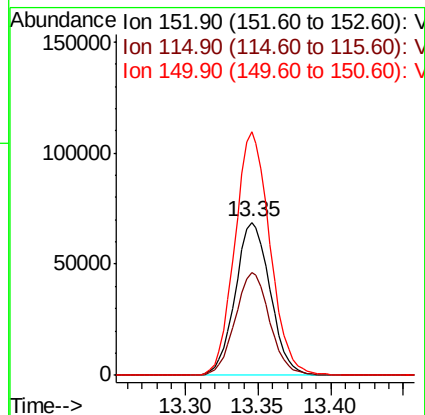
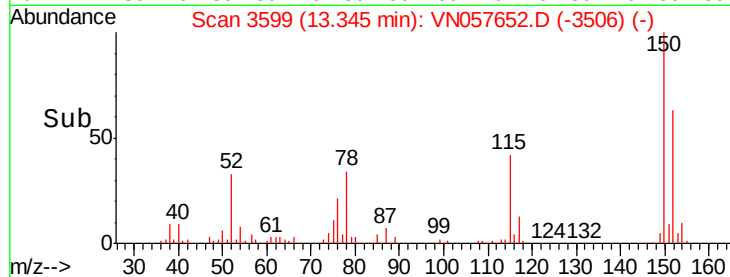
150 159.9 0.0 365.2



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



#76

1,2,3-Trichloropropane

Concen: 34.704 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057652.D

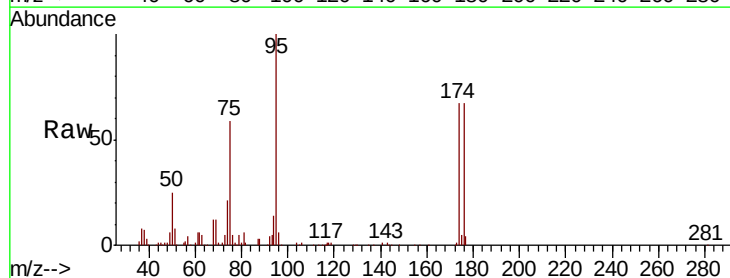
Acq: 1 Sep 2019 18:34

Tgt Ion: 75 Resp: 105201

Ion Ratio Lower Upper

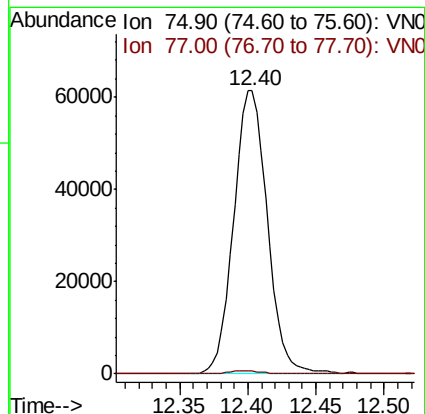
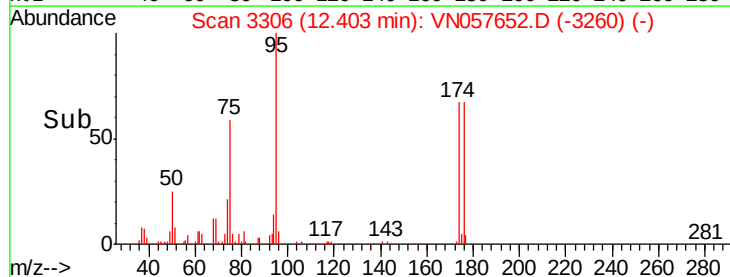
75 100

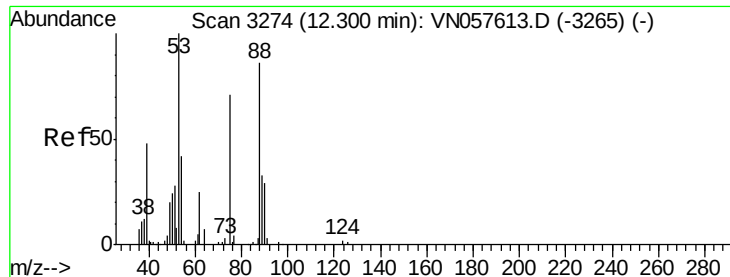
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 118.958 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D4-(2.5)

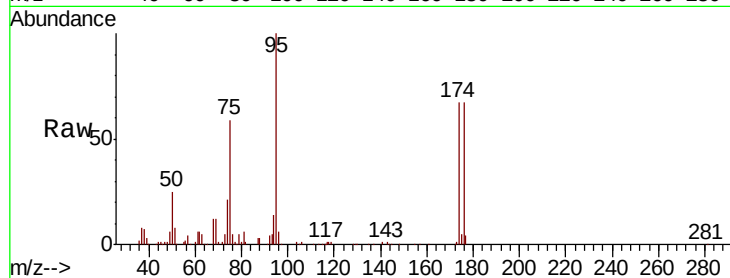
Tgt Ion: 75 Resp: 105201

Ion Ratio Lower Upper

75 100

53 0.0 111.0 166.6#

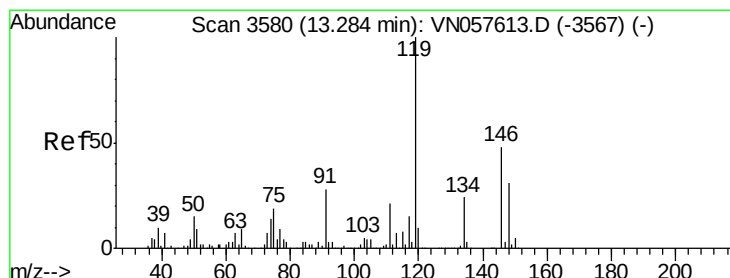
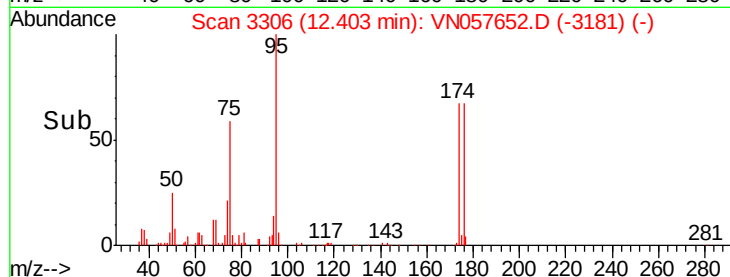
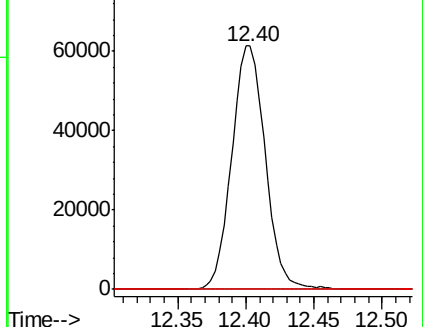
89 0.0 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VN057652.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN057652.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN057652.D (-3306) (-)



#87

1,3-Dichlorobenzene

Concen: 0.215 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

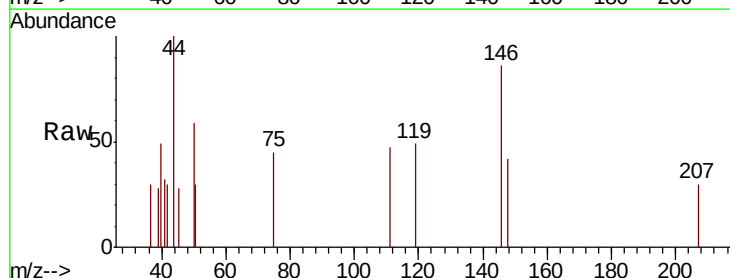
Tgt Ion: 146 Resp: 869

Ion Ratio Lower Upper

146 100

111 19.4 21.8 65.3#

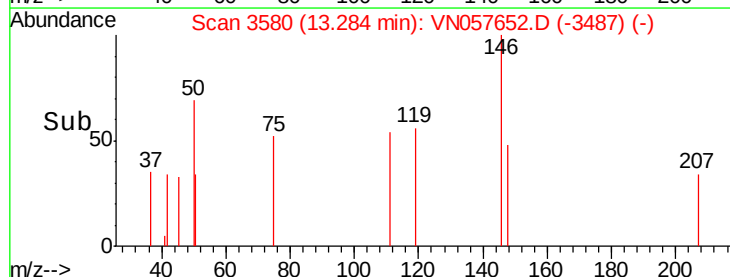
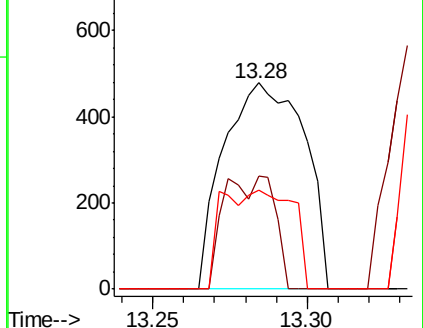
148 14.3 31.4 94.2#

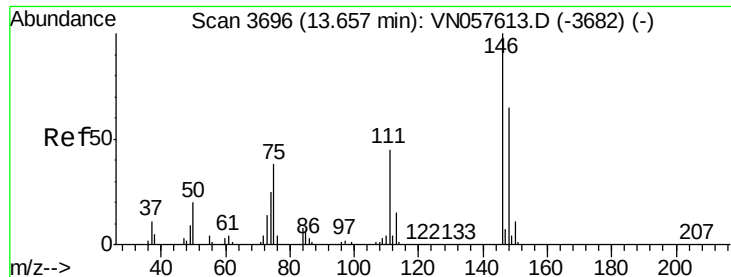


Abundance Ion 145.90 (145.60 to 146.60): VN057652.D (-3580) (-)

Ion 110.90 (110.60 to 111.60): VN057652.D (-3580) (-)

Ion 147.90 (147.60 to 148.60): VN057652.D (-3580) (-)

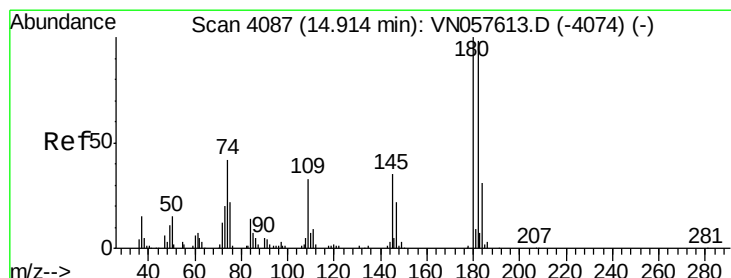
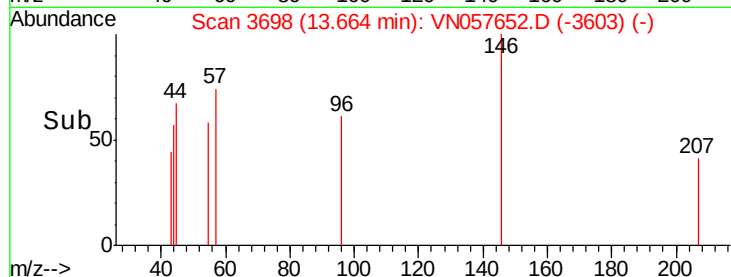
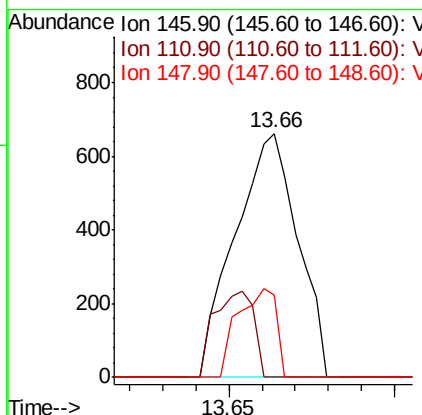
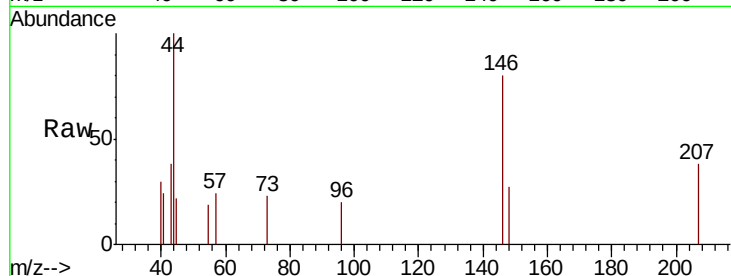




#91
 1,2-Dichlorobenzene
 Concen: 0.226 ug/l
 RT: 13.66 min Scan# 3698
 Delta R.T. 0.01 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

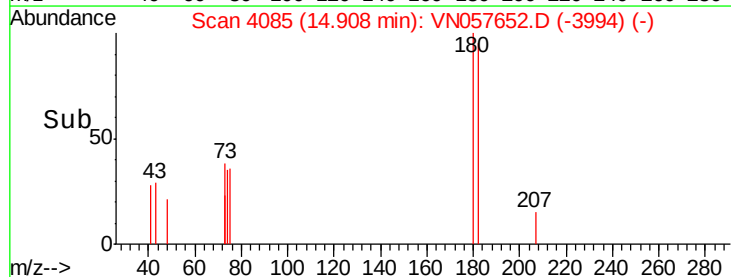
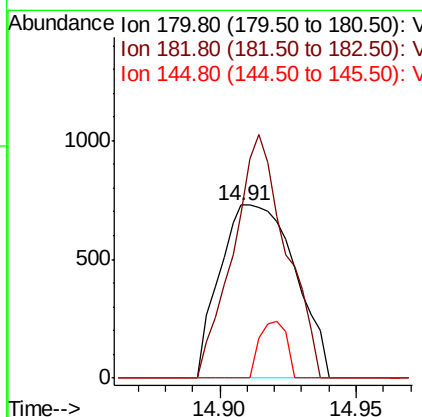
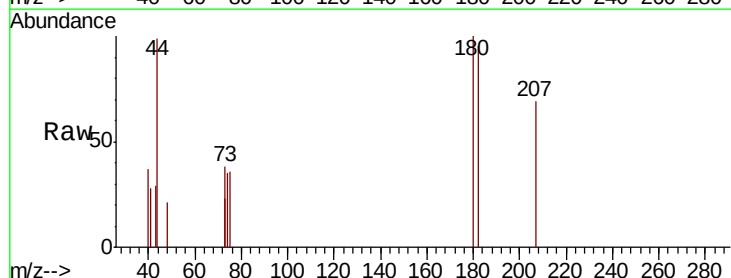
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D4-(2.5)

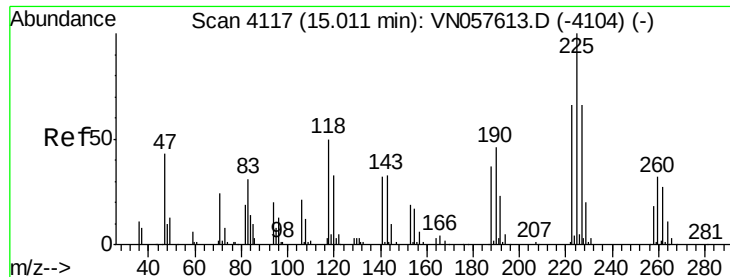
Tgt Ion:146 Resp: 871
 Ion Ratio Lower Upper
 146 100
 111 22.2 22.1 66.5
 148 22.3 31.6 94.7#



#93
 1,2,4-Trichlorobenzene
 Concen: 8.990 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.01 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

Tgt Ion:180 Resp: 1391
 Ion Ratio Lower Upper
 180 100
 182 98.6 47.8 143.3
 145 11.6 16.9 50.7#





#94

Hexachlorobutadiene

Concen: 0.423 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D4-(2.5)

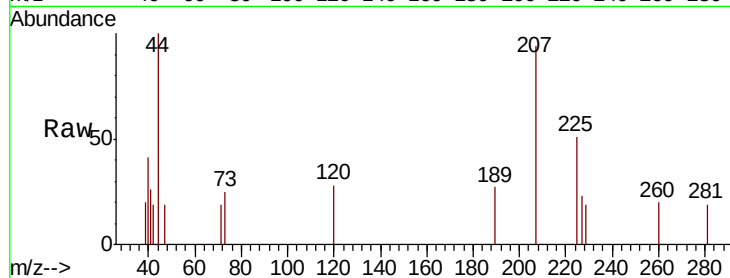
Tgt Ion:225 Resp: 559

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.8#

227 20.9 32.4 97.2#

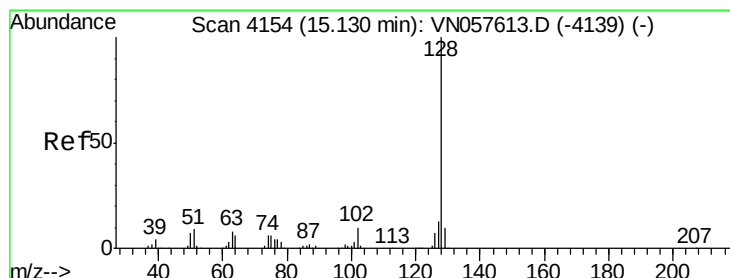
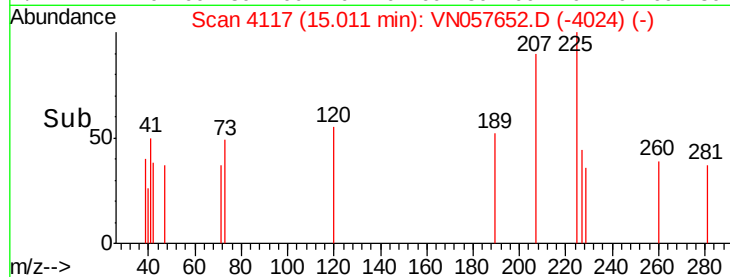
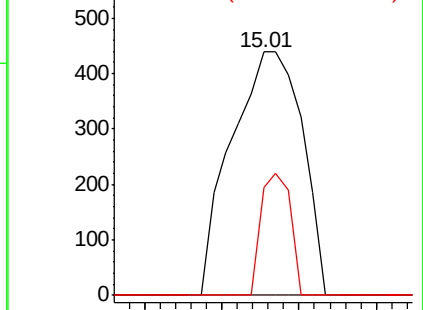


Abundance

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: 7.257 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057652.D

Acq: 1 Sep 2019 18:34

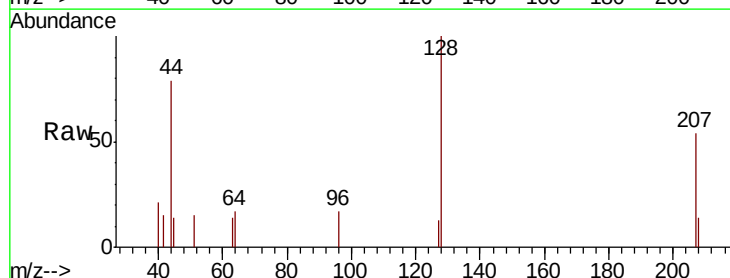
Tgt Ion:128 Resp: 2043

Ion Ratio Lower Upper

128 100

127 13.4 10.2 15.2

129 0.0 8.6 12.8#

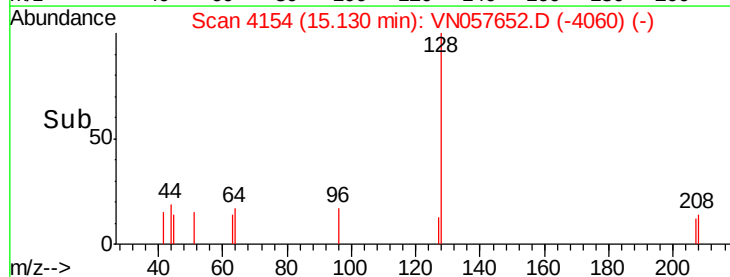
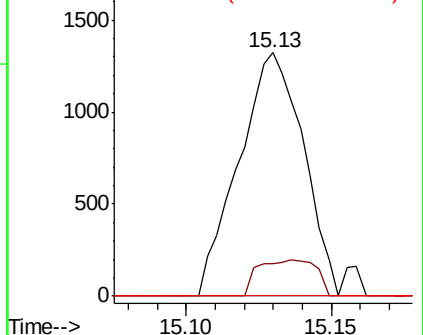


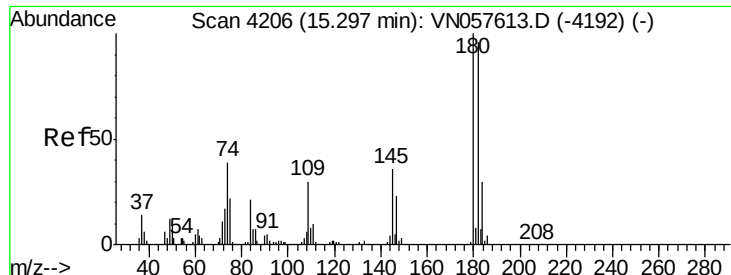
Abundance

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: 8.316 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.01 min
 Lab File: VN057652.D
 Acq: 1 Sep 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D4-(2.5)

Tgt Ion:180 Resp: 1093
 Ion Ratio Lower Upper
 180 100
 182 108.9 46.3 138.9
 145 34.9 17.8 53.3

