

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100319\
 Data File : VN058508.D
 Acq On : 3 Oct 2019 14:37
 Operator : JC/SP
 Sample : K5095-05DL 1000X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-5DL

Quant Time: Oct 04 03:19:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	337058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	564452	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	475325	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	170942	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	250128	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
35) Dibromofluoromethane	7.57	113	179594	51.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.82%	
50) Toluene-d8	10.09	98	696349	51.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.76%	
62) 4-Bromofluorobenzene	12.41	95	207545	42.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.70%	

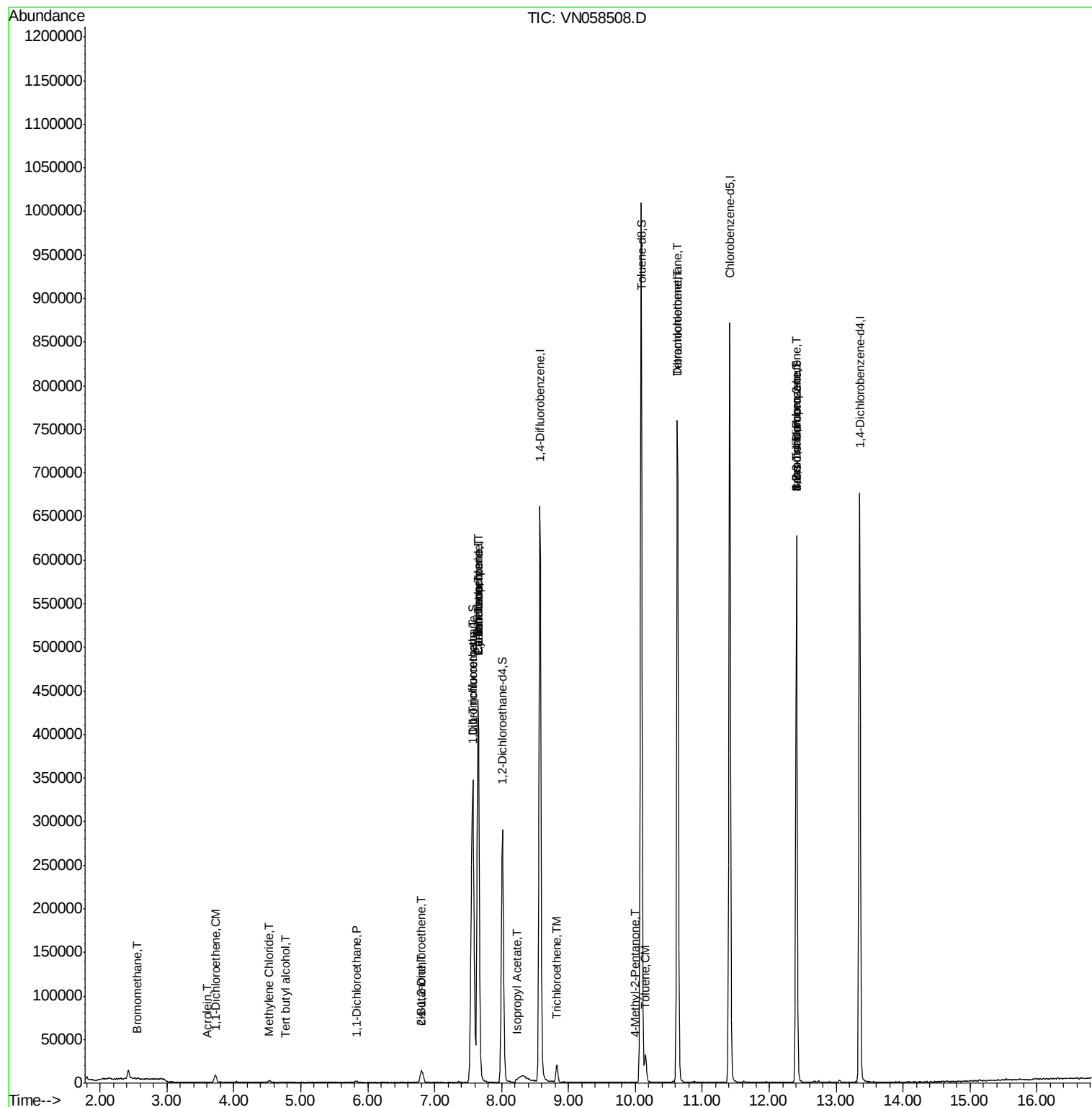
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	569	0.269	ug/l #	49
11) Tert butyl alcohol	4.77	59	144	0.263	ug/l #	71
12) 1,1-Dichloroethene	3.73	96	3957	1.244	ug/l	95
13) Acrolein	3.61	56	140	0.804	ug/l #	13
20) Methylene Chloride	4.53	84	1452	0.375	ug/l #	71
24) 1,1-Dichloroethane	5.83	63	3070	0.438	ug/l #	85
25) 2-Butanone	6.81	43	566	0.246	ug/l #	50
27) cis-1,2-Dichloroethene	6.81	96	1946	0.471	ug/l	20
31) Cyclohexane	7.65	56	9123	1.338	ug/l #	35
32) 1,1,1-Trichloroethane	7.55	97	138723	23.788	ug/l	98
36) 1,1-Dichloropropene	7.65	75	30462	5.644	ug/l #	48
38) Carbon Tetrachloride	7.65	117	35071	7.199	ug/l #	16
43) Isopropyl Acetate	8.22	43	1965	0.228	ug/l #	63
44) Trichloroethene	8.82	130	7180	1.874	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	1194	0.270	ug/l #	37
52) Toluene	10.15	92	11573	1.185	ug/l	95
60) Dibromochloromethane	10.63	129	155437	42.128	ug/l #	11
64) Tetrachloroethene	10.63	164	163412	54.112	ug/l	98
71) Bromoform	12.40	173	492	0.915	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	116086	37.180	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	116086	112.920	ug/l #	7

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

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QLast Update : Mon Sep 30 08:07:38 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

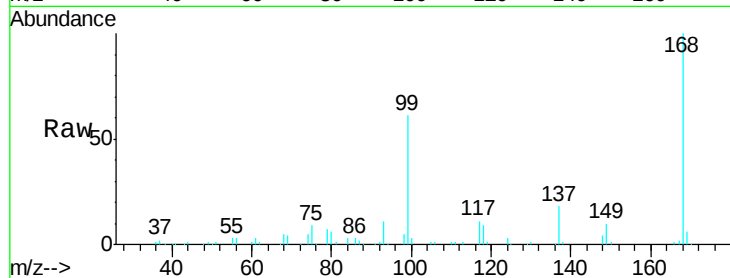
COMPOSITE-5DL

Tgt Ion:168 Resp: 337058

Ion Ratio Lower Upper

168 100

99 60.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

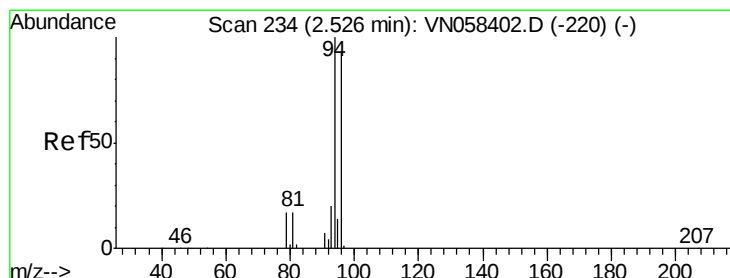
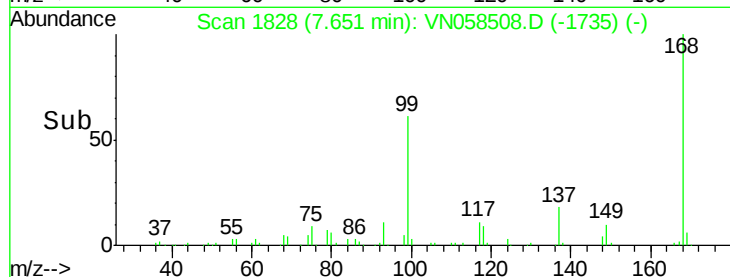
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: 0.269 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.04 min

Lab File: VN058508.D

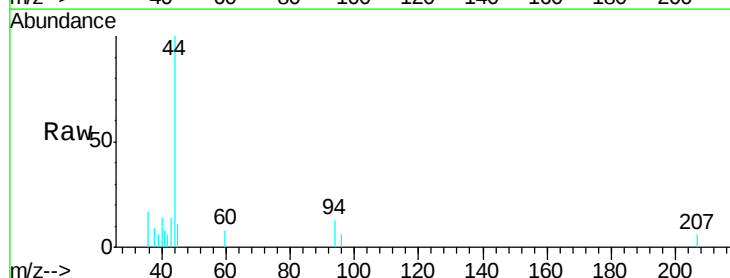
Acq: 3 Oct 2019 14:37

Tgt Ion: 94 Resp: 569

Ion Ratio Lower Upper

94 100

96 44.5 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

400

300

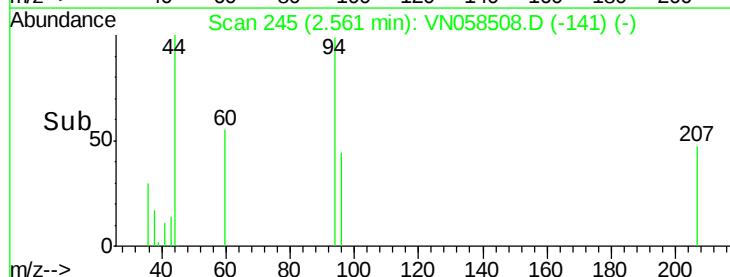
200

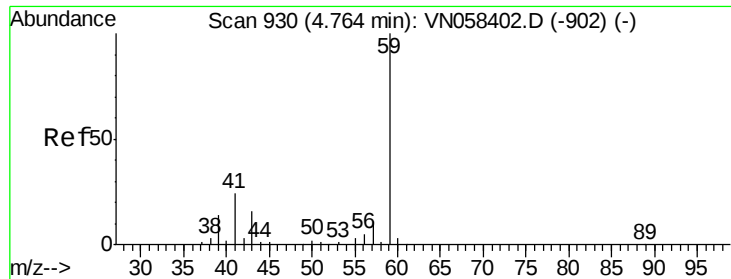
100

0

2.52 2.54 2.56 2.58 2.60

Time-->



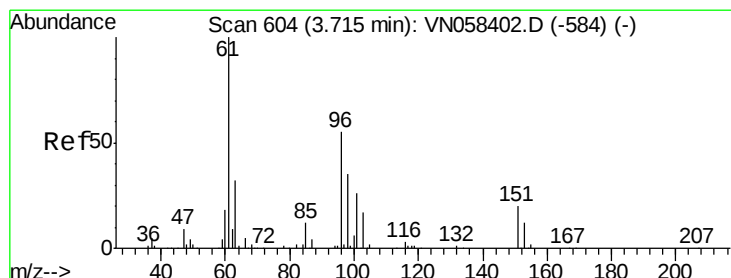
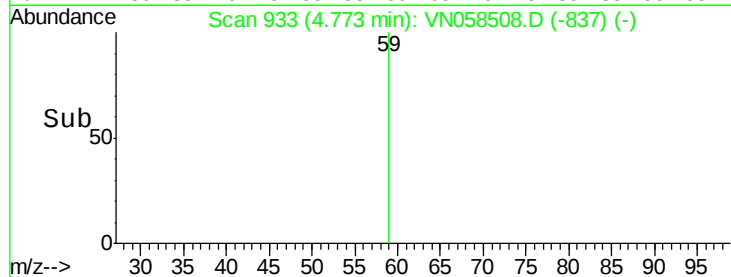
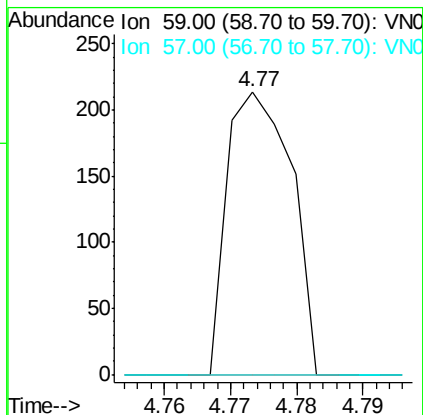
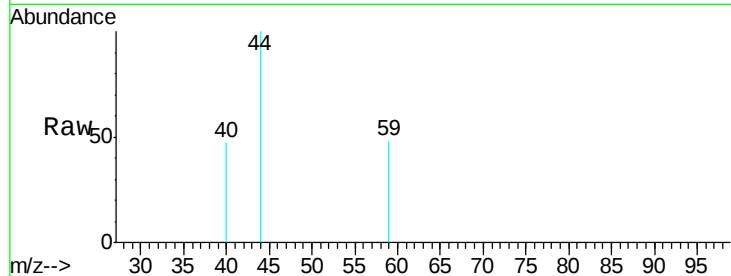


#11

Tert butyl alcohol
 Concen: 0.263 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-5DL

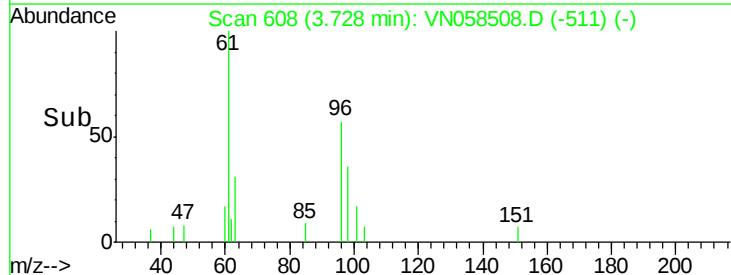
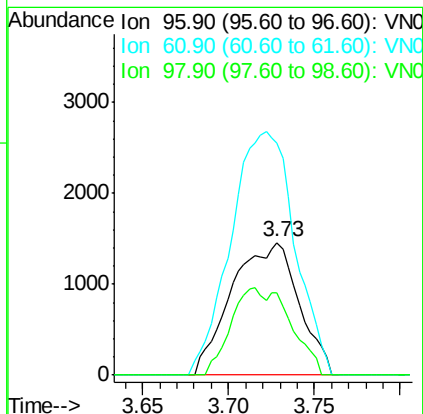
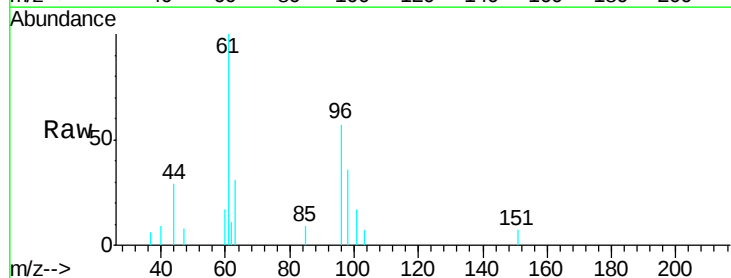
Tgt Ion: 59 Resp: 144
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

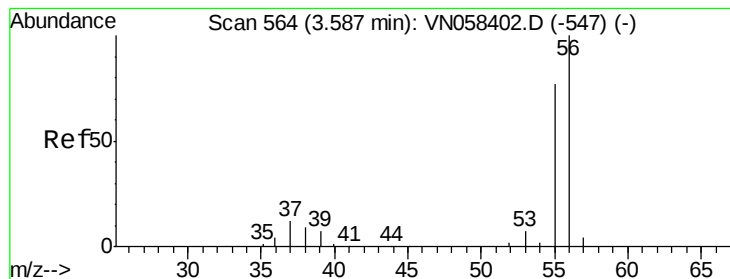


#12

1,1-Dichloroethene
 Concen: 1.244 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

Tgt Ion: 96 Resp: 3957
 Ion Ratio Lower Upper
 96 100
 61 174.8 146.7 220.1
 98 62.5 51.3 76.9





#13

Acrolein

Concen: 0.804 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.02 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

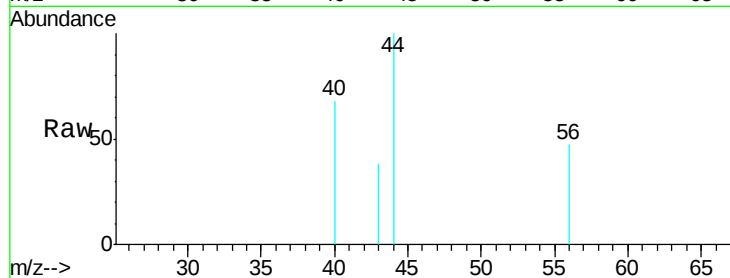
COMPOSITE-5DL

Tgt Ion: 56 Resp: 140

Ion Ratio Lower Upper

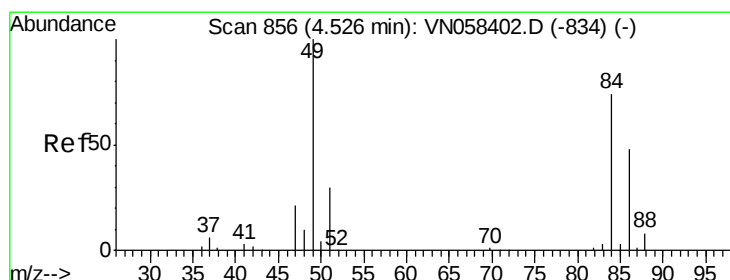
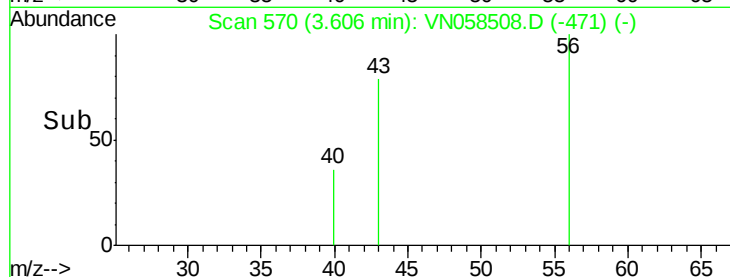
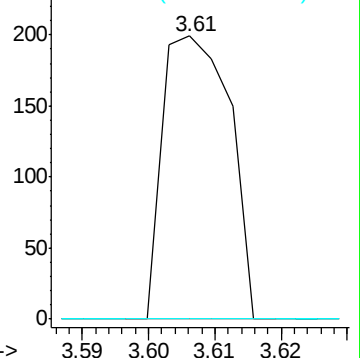
56 100

55 0.0 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#20

Methylene Chloride

Concen: 0.375 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Tgt Ion: 84 Resp: 1452

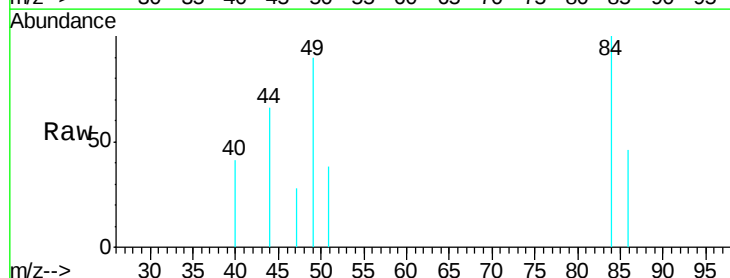
Ion Ratio Lower Upper

84 100

49 89.5 107.9 161.9#

51 38.3 32.8 49.2

86 45.6 51.5 77.3#

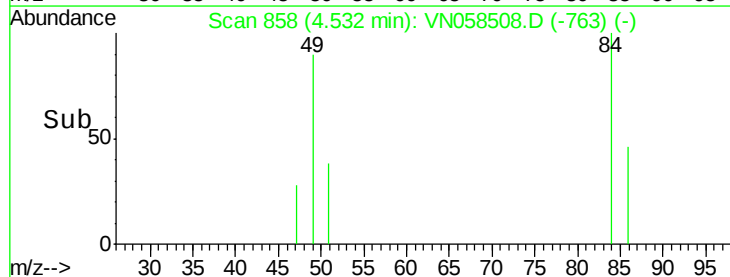
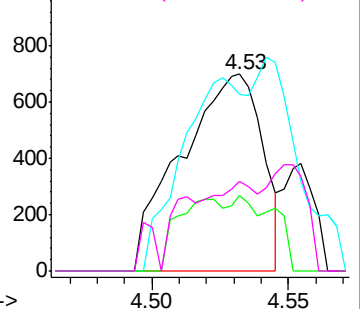


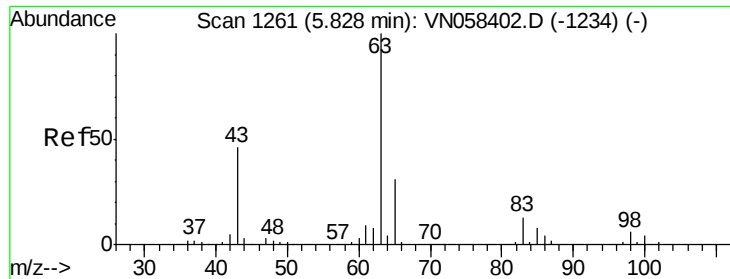
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

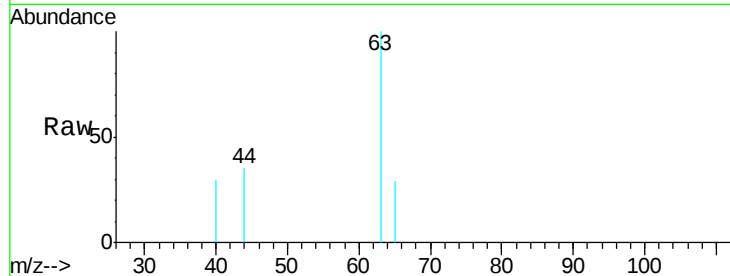




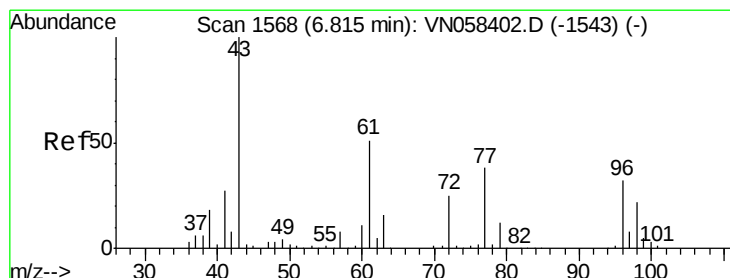
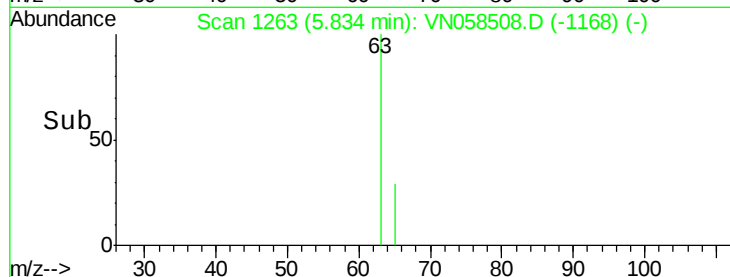
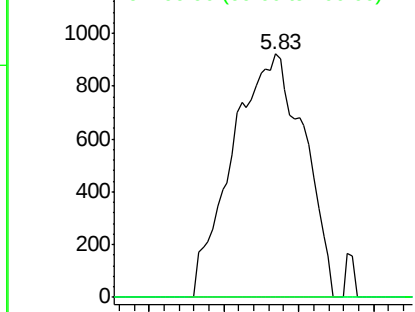
#24
 1,1-Dichloroethane
 Concen: 0.438 ug/l
 RT: 5.83 min Scan# 1263
 Delta R.T. 0.01 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-5DL

Tgt Ion: 63 Resp: 3070
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.0 9.0#
 100 0.0 2.0 5.8#

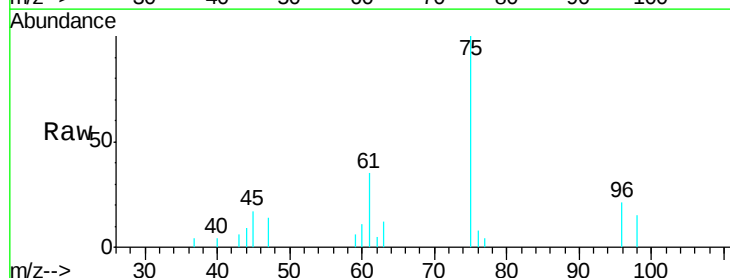


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

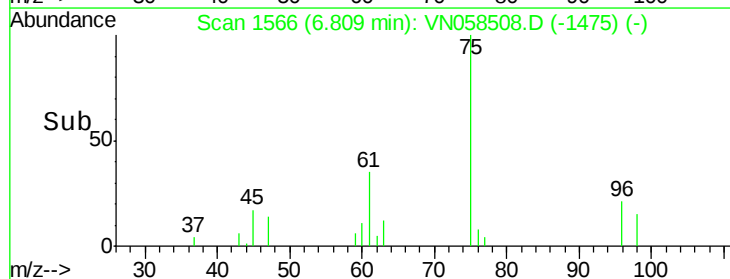
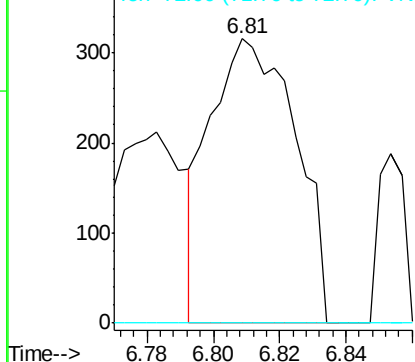


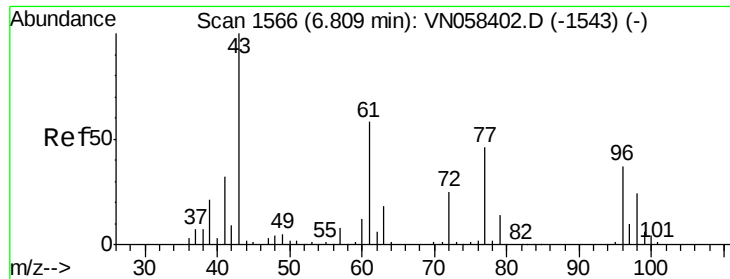
#25
 2-Butanone
 Concen: 0.246 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

Tgt Ion: 43 Resp: 566
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.471 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-5DL

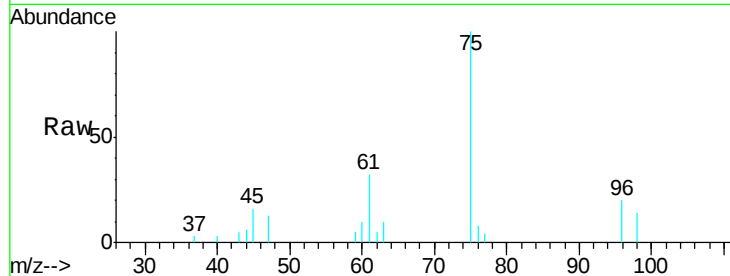
Tgt Ion: 96 Resp: 1946

Ion Ratio Lower Upper

96 100

61 300.3 0.0 318.8

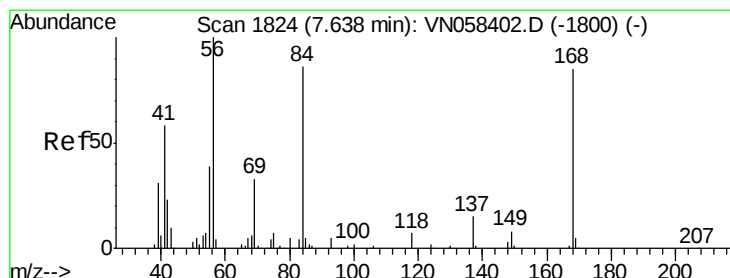
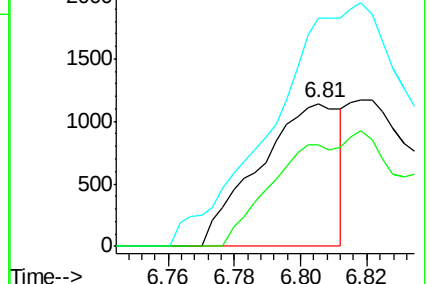
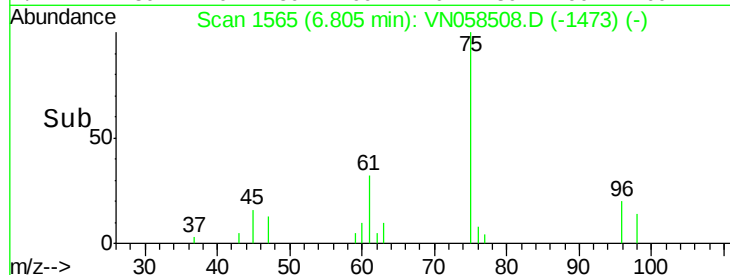
98 54.7 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.338 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

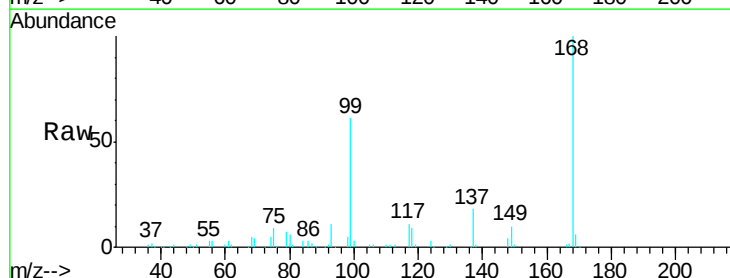
Tgt Ion: 56 Resp: 9123

Ion Ratio Lower Upper

56 100

69 149.4 26.2 39.4#

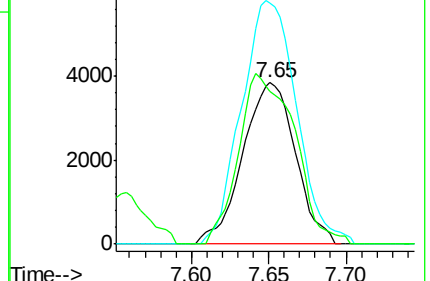
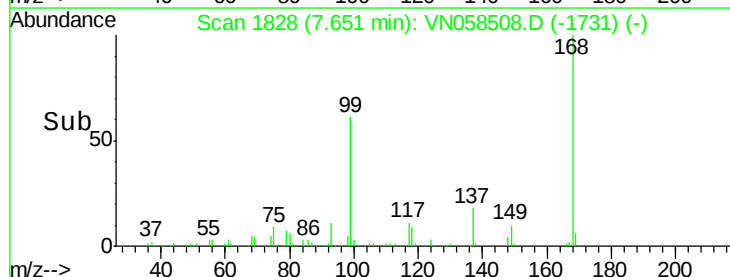
84 94.1 67.6 101.4

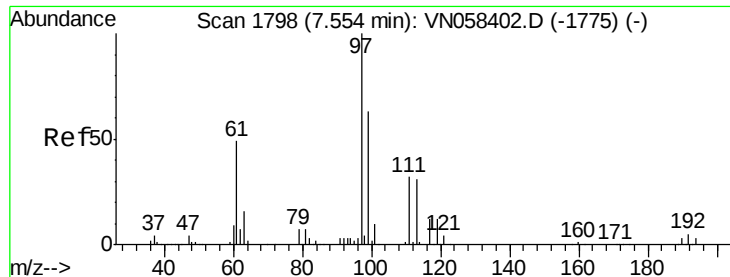


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#32

1,1,1-Trichloroethane

Concen: 23.788 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

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ClientSampleId :

COMPOSITE-5DL

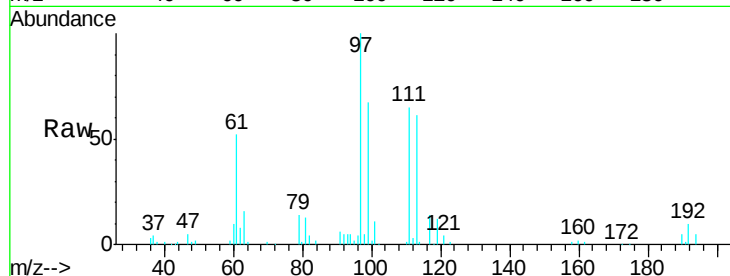
Tgt Ion: 97 Resp: 138723

Ion Ratio Lower Upper

97 100

99 65.1 51.1 76.7

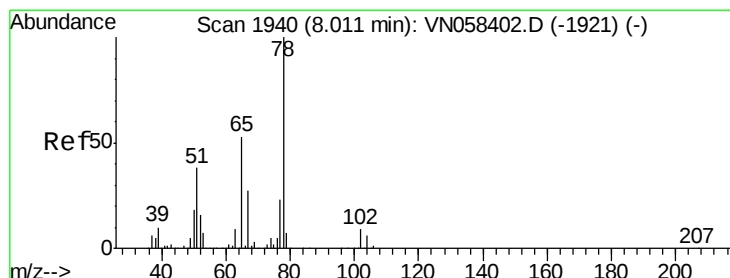
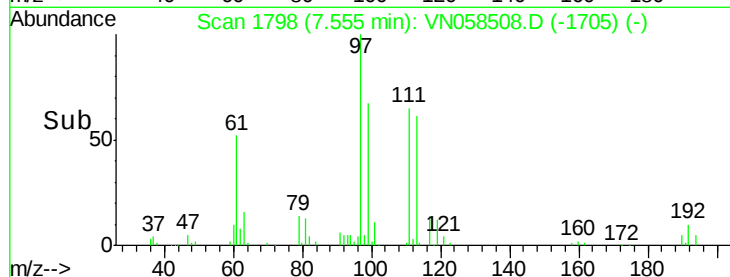
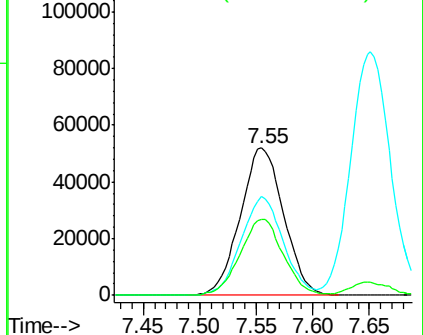
61 51.1 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VN058402.D (-1775) (-)

Ion 98.90 (98.60 to 99.60): VN058402.D (-1775) (-)

Ion 60.90 (60.60 to 61.60): VN058402.D (-1775) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.782 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058508.D

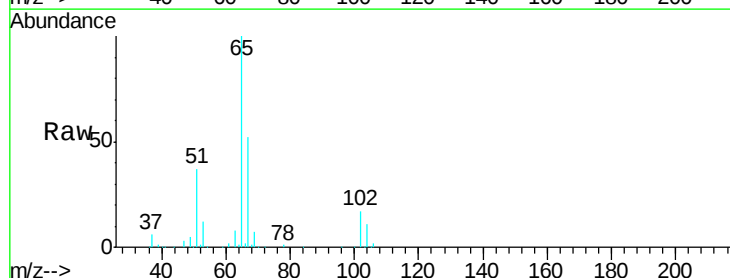
Acq: 3 Oct 2019 14:37

Tgt Ion: 65 Resp: 250128

Ion Ratio Lower Upper

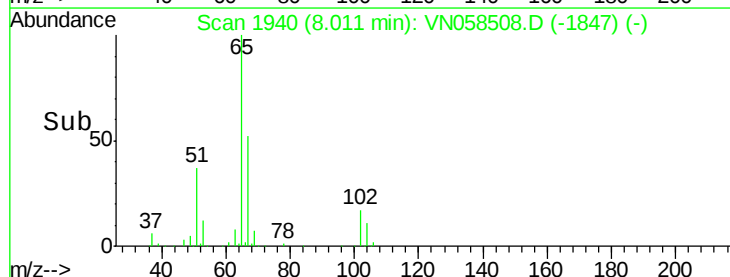
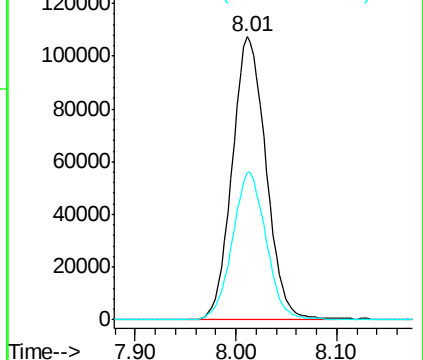
65 100

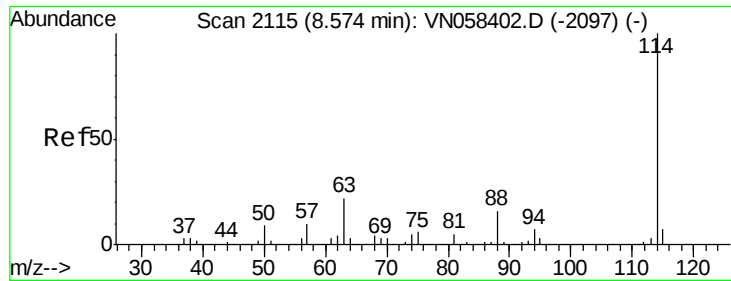
67 51.9 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058402.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN058402.D (-1921) (-)

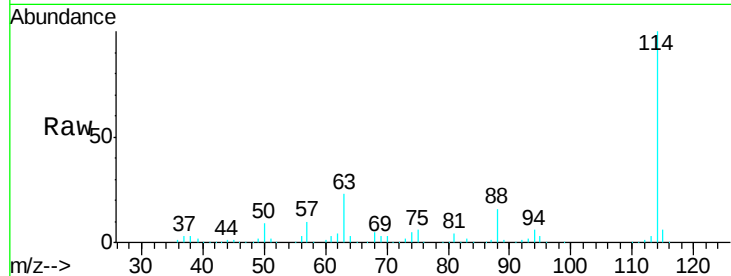




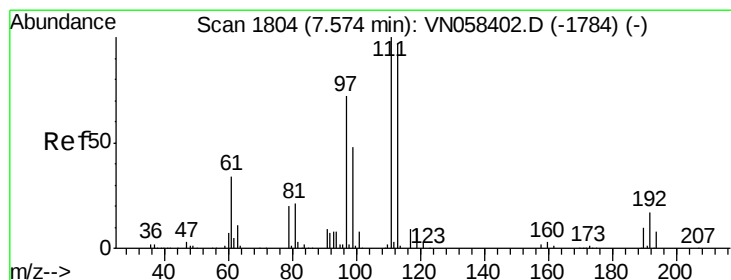
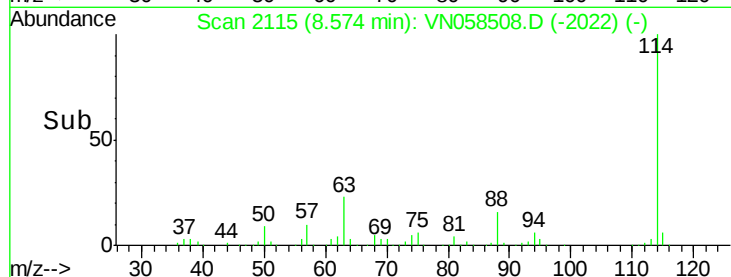
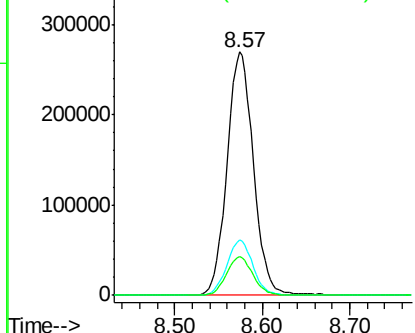
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-5DL

Tgt Ion:114 Resp: 564452
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.0
 88 15.9 0.0 32.2

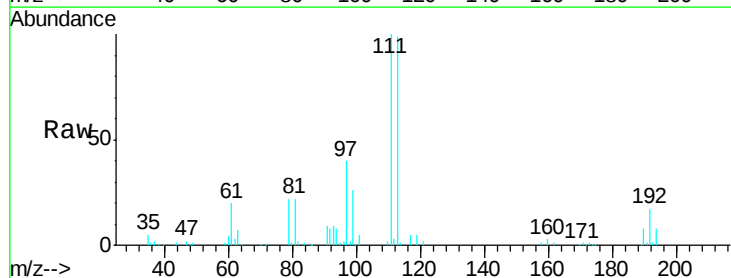


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

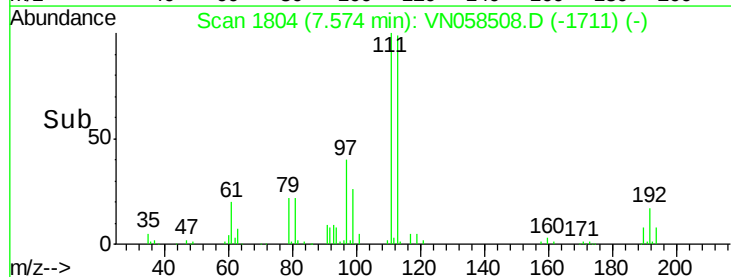
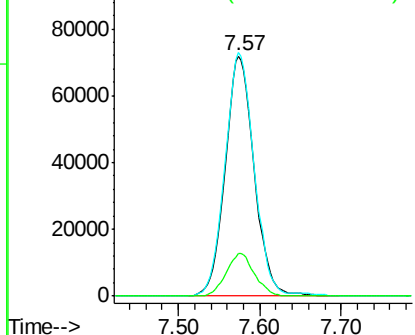


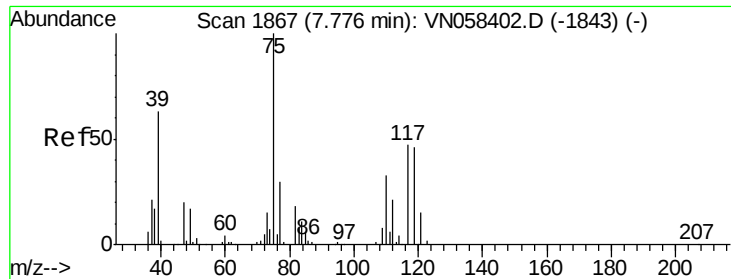
#35
 Dibromofluoromethane
 Concen: 51.914 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

Tgt Ion:113 Resp: 179594
 Ion Ratio Lower Upper
 113 100
 111 101.2 83.4 125.2
 192 17.2 14.9 22.3



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

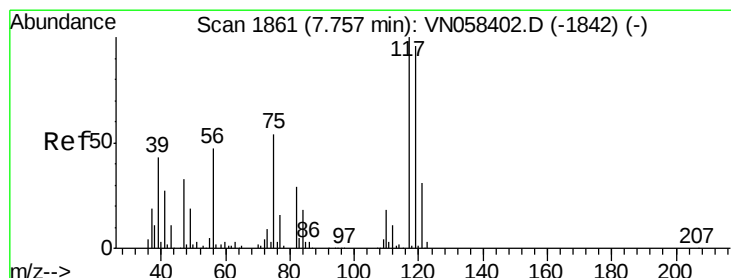
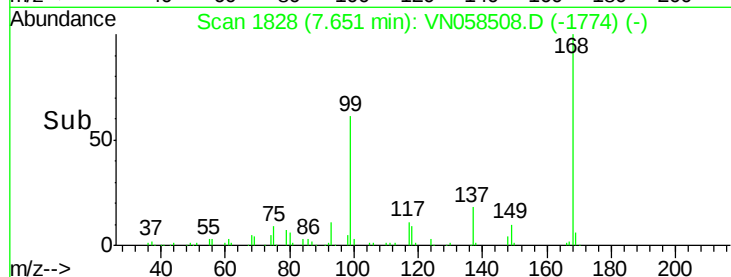
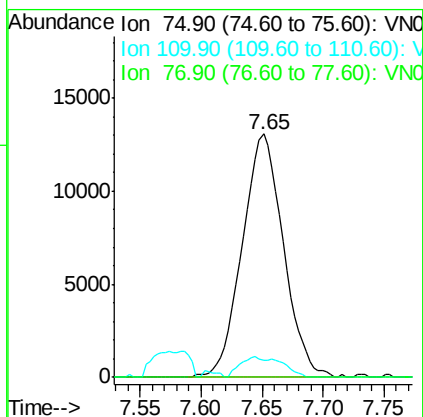
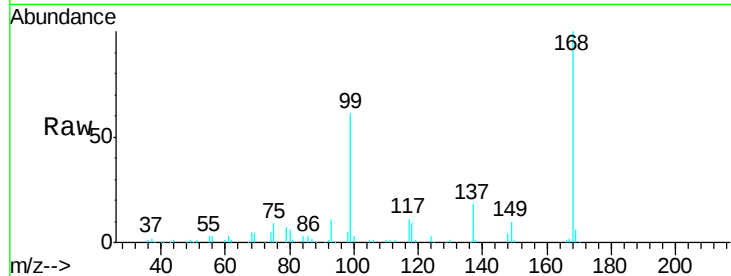




#36
 1,1-Dichloropropene
 Concen: 5.644 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

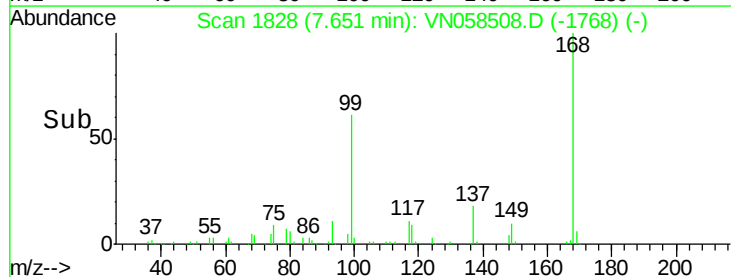
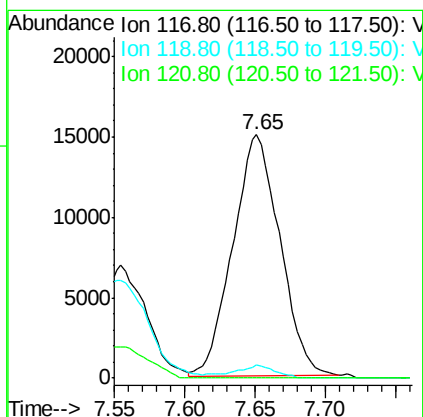
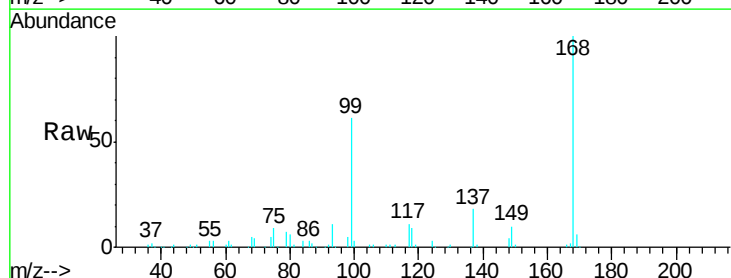
Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-5DL

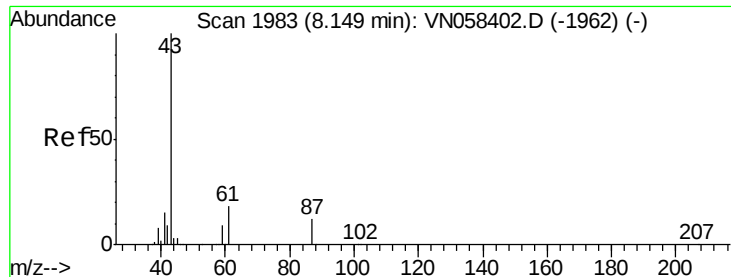
Tgt Ion: 75 Resp: 30462
 Ion Ratio Lower Upper
 75 100
 110 5.3 16.4 49.2#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 7.199 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058508.D
 Acq: 3 Oct 2019 14:37

Tgt Ion: 117 Resp: 35071
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.6 115.0#
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 0.228 ug/l

RT: 8.22 min Scan# 2005

Delta R.T. 0.07 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-5DL

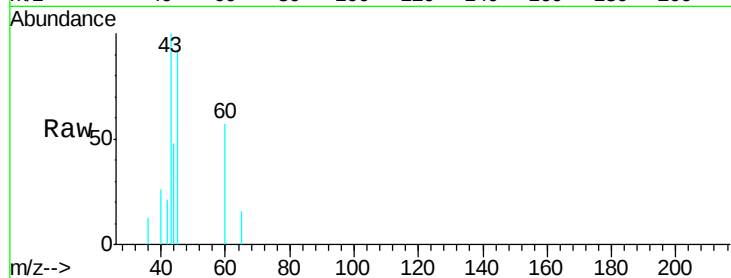
Tgt Ion: 43 Resp: 1965

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

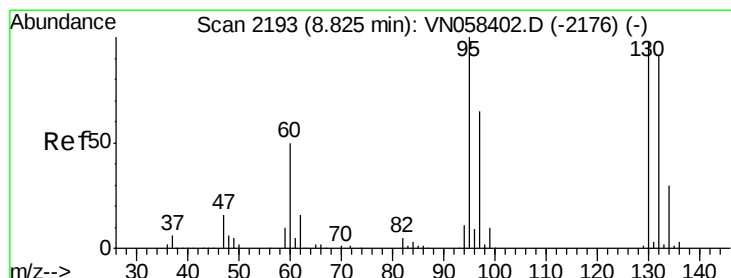
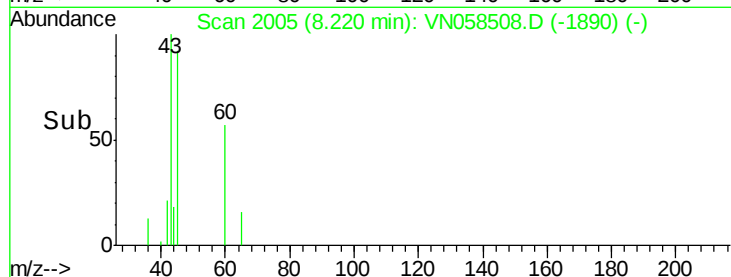
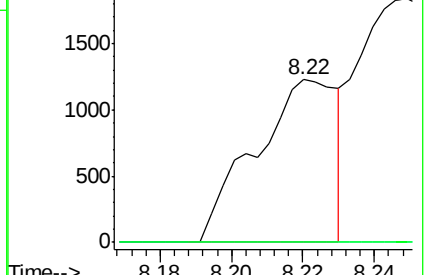
87 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058402.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058402.D (-1962) (-)



#44

Trichloroethene

Concen: 1.874 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058508.D

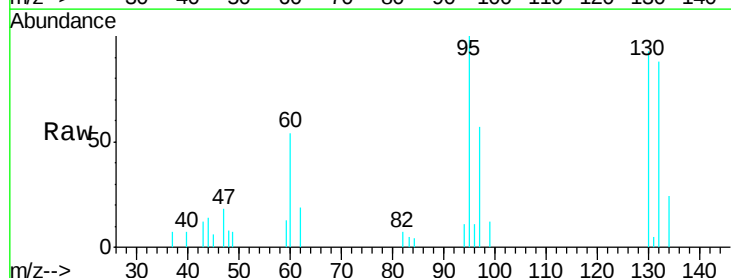
Acq: 3 Oct 2019 14:37

Tgt Ion: 130 Resp: 7180

Ion Ratio Lower Upper

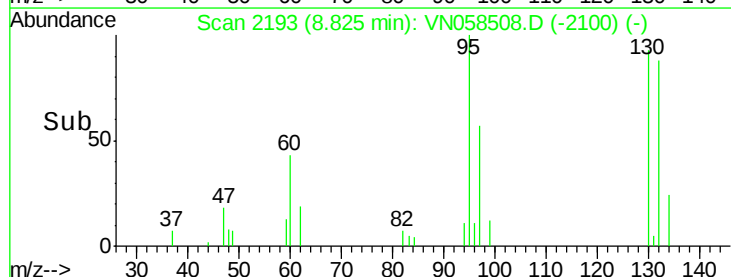
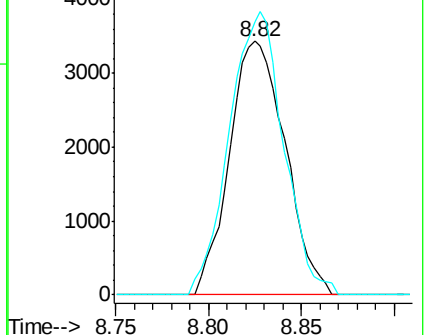
130 100

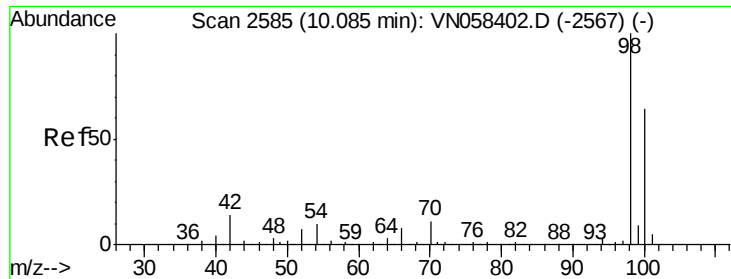
95 107.8 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): VN058402.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058402.D (-2176) (-)

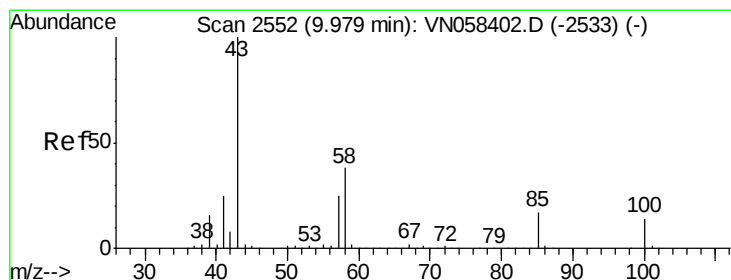
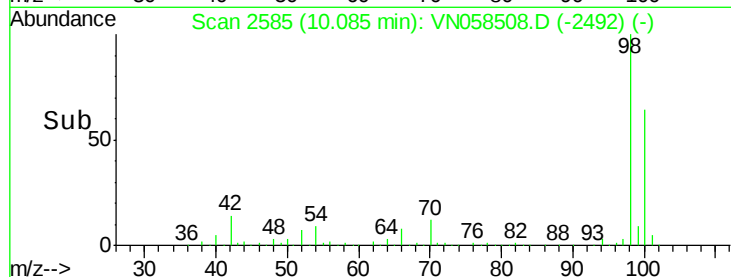
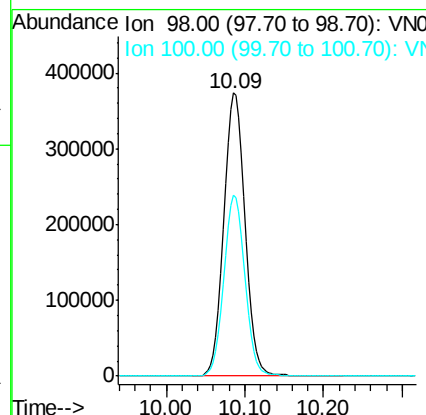
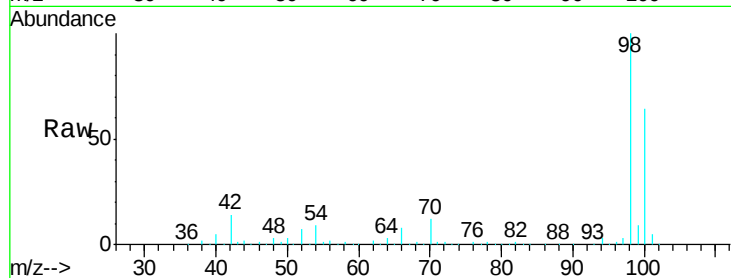




#50
Toluene-d8
Concen: 51.383 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058508.D
Acq: 3 Oct 2019 14:37

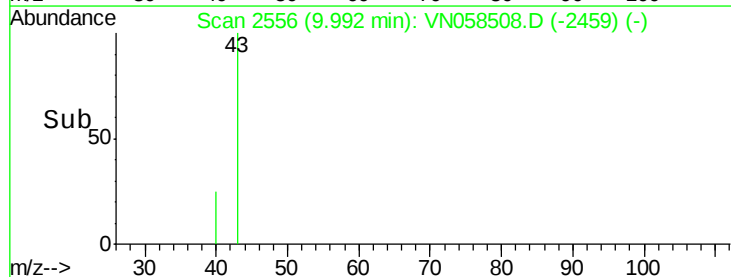
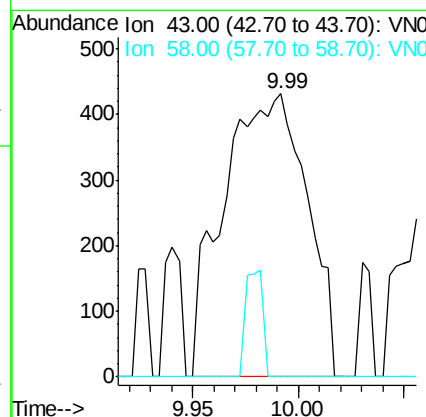
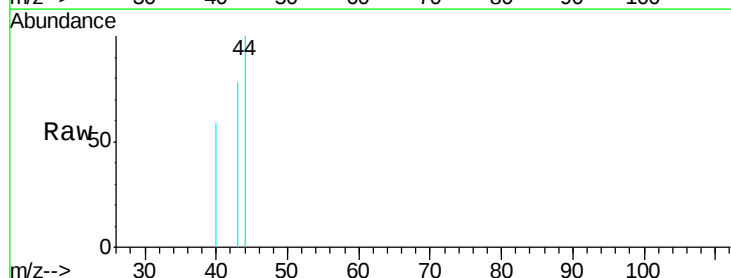
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-5DL

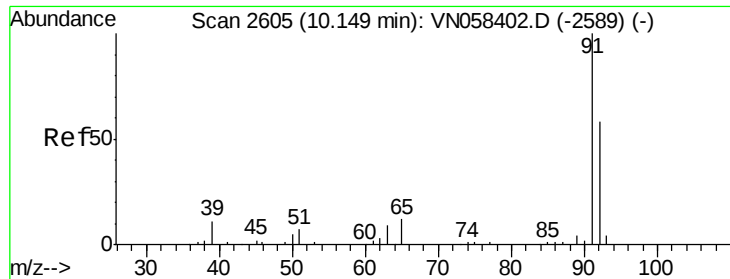
Tgt Ion: 98 Resp: 696349
Ion Ratio Lower Upper
98 100
100 63.3 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 0.270 ug/l
RT: 9.99 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN058508.D
Acq: 3 Oct 2019 14:37

Tgt Ion: 43 Resp: 1194
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#





#52

Toluene

Concen: 1.185 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

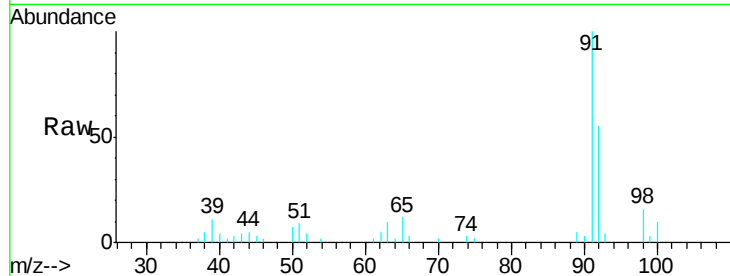
COMPOSITE-5DL

Tgt Ion: 92 Resp: 11573

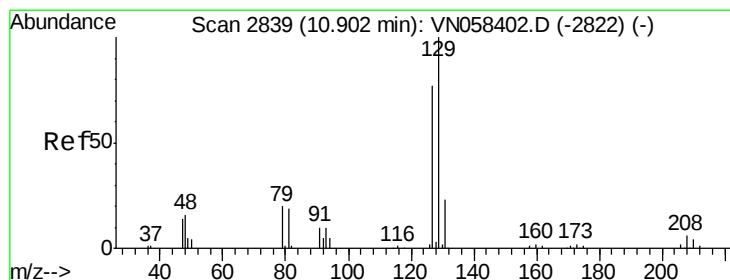
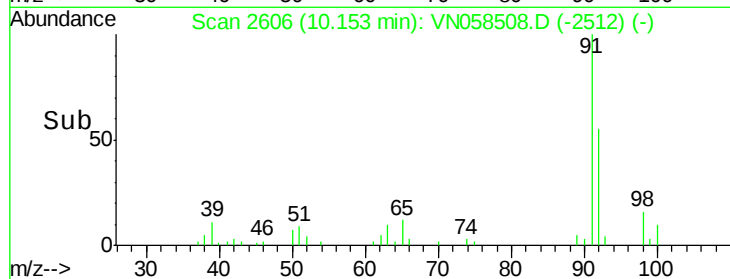
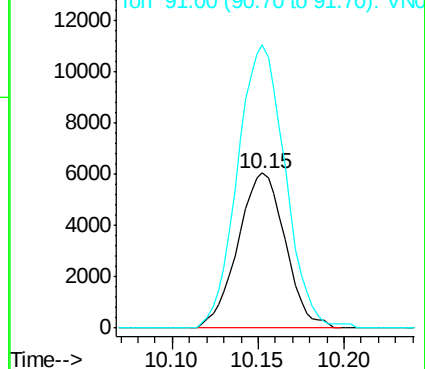
Ion Ratio Lower Upper

92 100

91 182.5 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VN058402.D (-2589) (-)



#60

Dibromochloromethane

Concen: 42.128 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058508.D

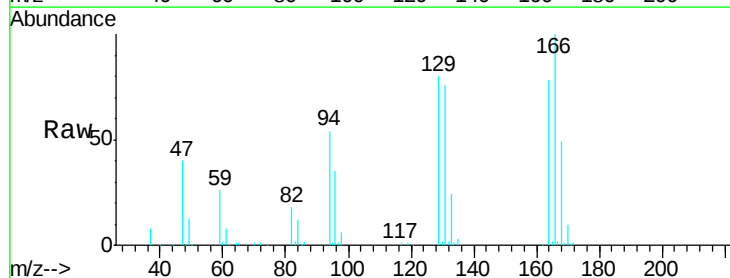
Acq: 3 Oct 2019 14:37

Tgt Ion: 129 Resp: 155437

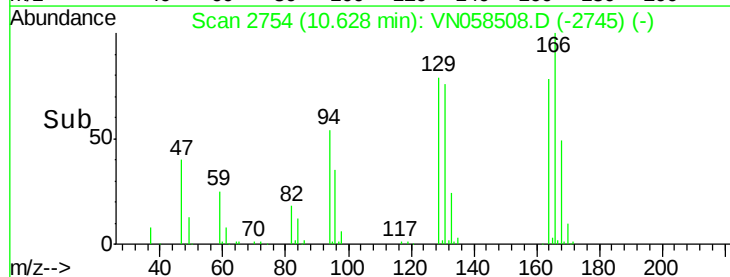
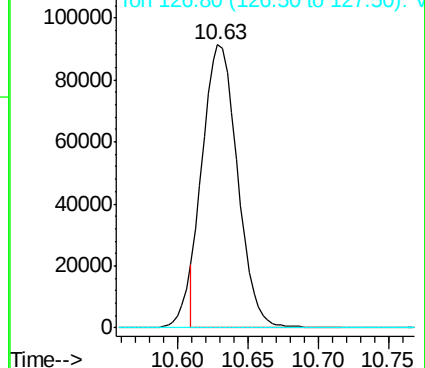
Ion Ratio Lower Upper

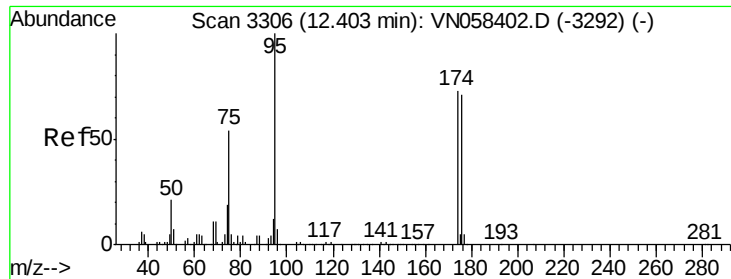
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): VN058402.D (-2822) (-)





#62

4-Bromofluorobenzene

Concen: 42.354 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-5DL

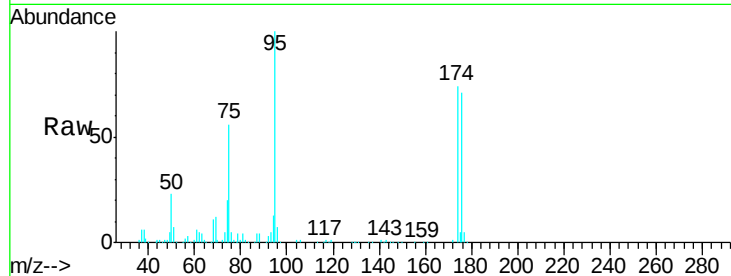
Tgt Ion: 95 Resp: 207545

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.6

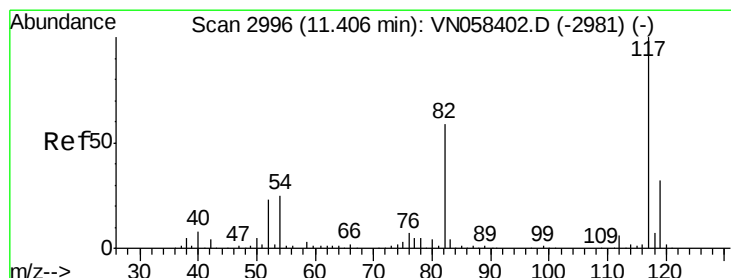
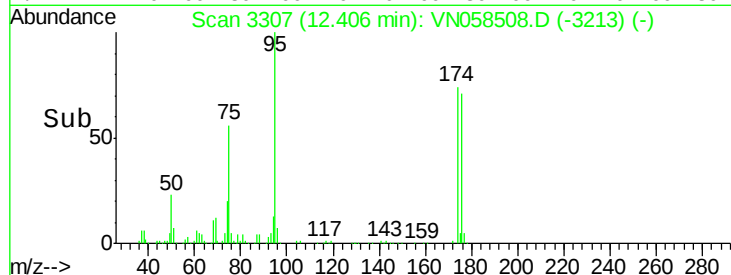
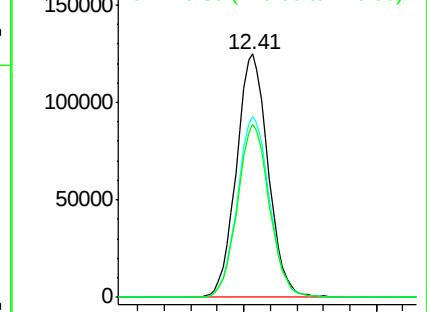
176 71.6 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

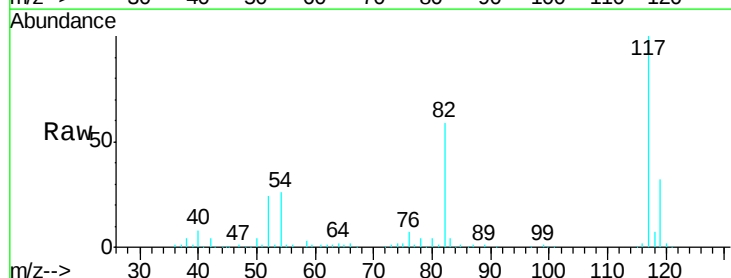
Tgt Ion: 117 Resp: 475325

Ion Ratio Lower Upper

117 100

82 59.0 47.4 71.0

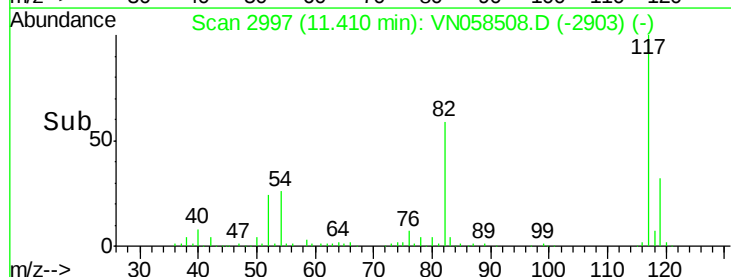
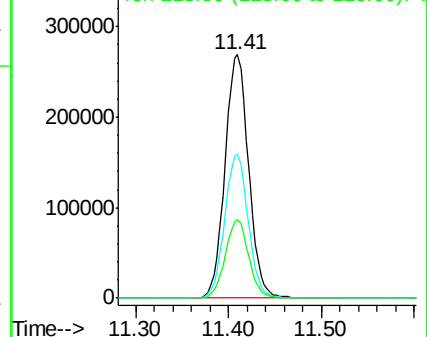
119 32.2 25.5 38.3

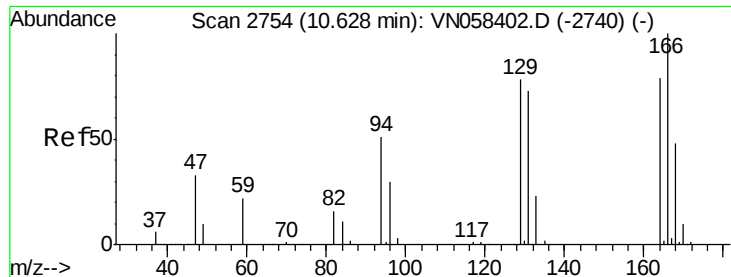


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)





#64

Tetrachloroethene

Concen: 54.112 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-5DL

Tgt Ion:164 Resp: 163412

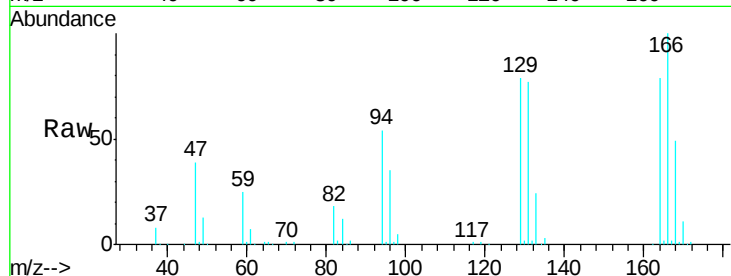
Ion Ratio Lower Upper

164 100

166 126.7 101.1 151.7

129 100.5 79.2 118.8

131 97.6 74.1 111.1

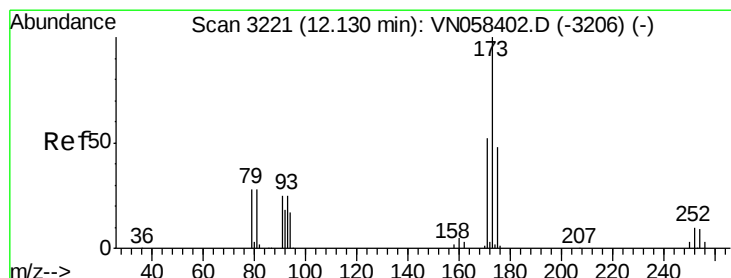
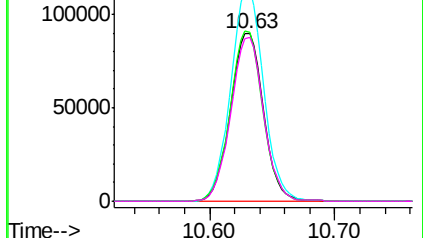
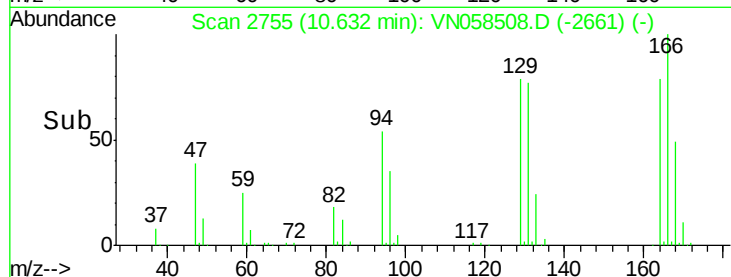


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.915 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

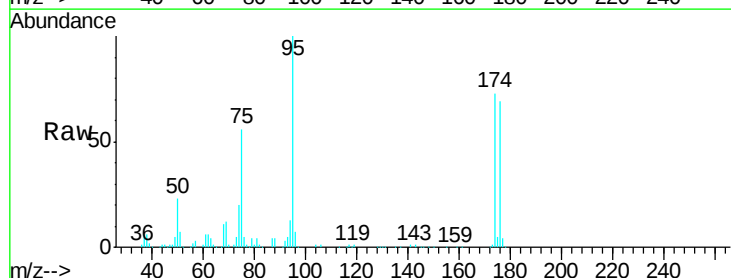
Tgt Ion:173 Resp: 492

Ion Ratio Lower Upper

173 100

175 1811.2 24.3 73.0#

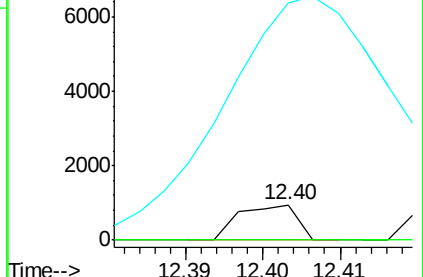
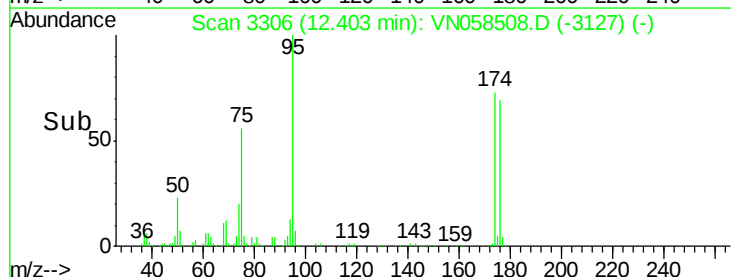
254 0.0 0.1 0.1#

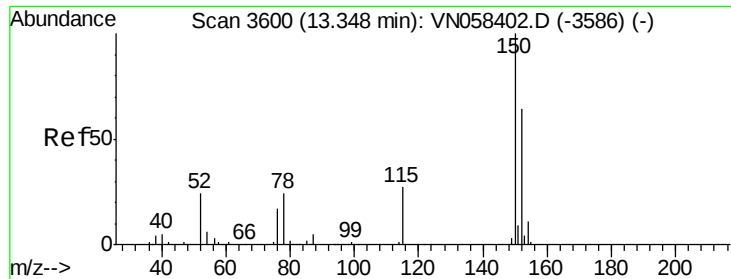


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-5DL

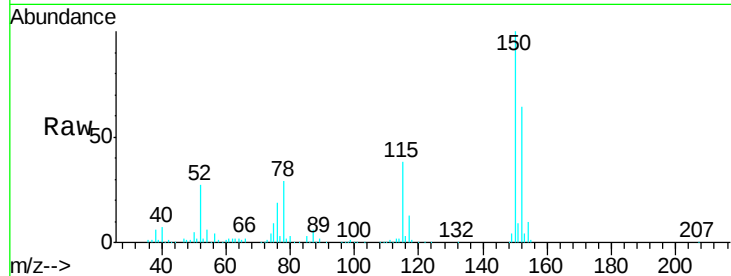
Tgt Ion:152 Resp: 170942

Ion Ratio Lower Upper

152 100

115 60.7 30.0 90.0

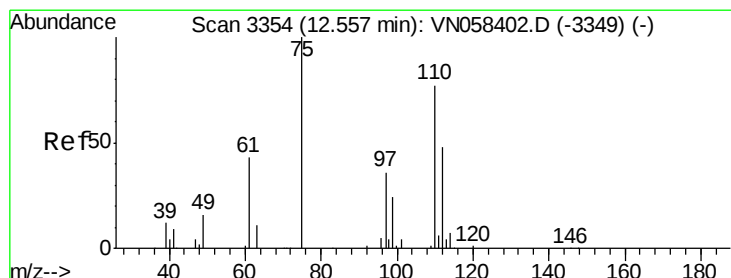
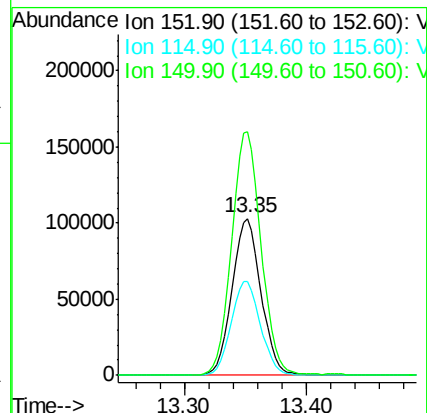
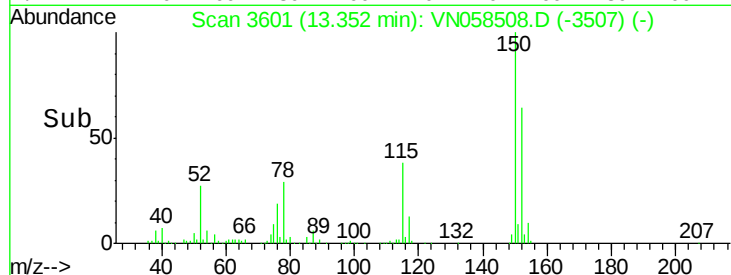
150 157.4 0.0 348.2



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: 37.180 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058508.D

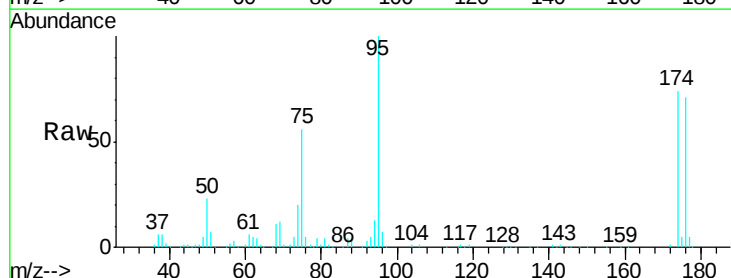
Acq: 3 Oct 2019 14:37

Tgt Ion: 75 Resp: 116086

Ion Ratio Lower Upper

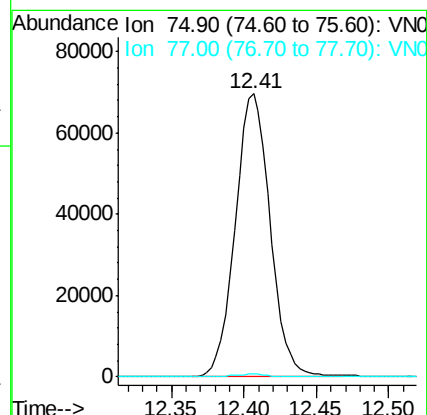
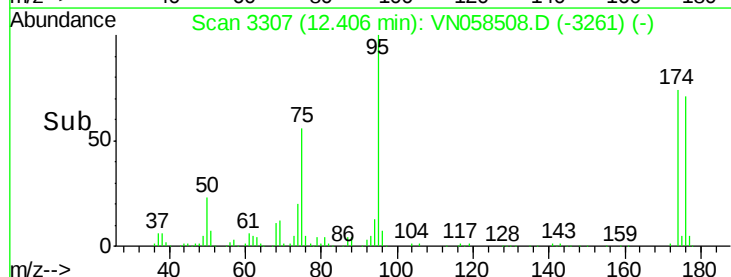
75 100

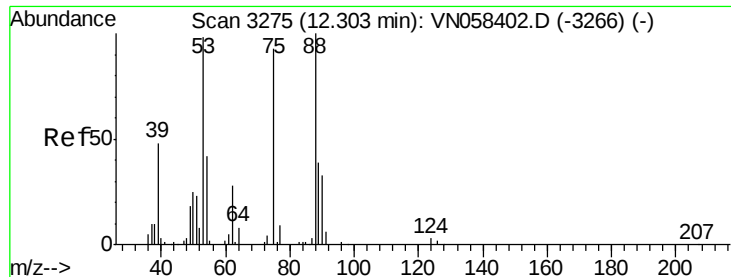
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 112.920 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058508.D

Acq: 3 Oct 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-5DL

Tgt Ion: 75 Resp: 116086

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.1 35.0 52.4#

