

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058437.D
 Acq On : 30 Sep 2019 15:55
 Operator : JC/SP
 Sample : K5080-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 01:32:46 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	429489	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	701682	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	585392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	219945	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	306789	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
35) Dibromofluoromethane	7.57	113	214875	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
50) Toluene-d8	10.08	98	867620	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
62) 4-Bromofluorobenzene	12.41	95	268831	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	

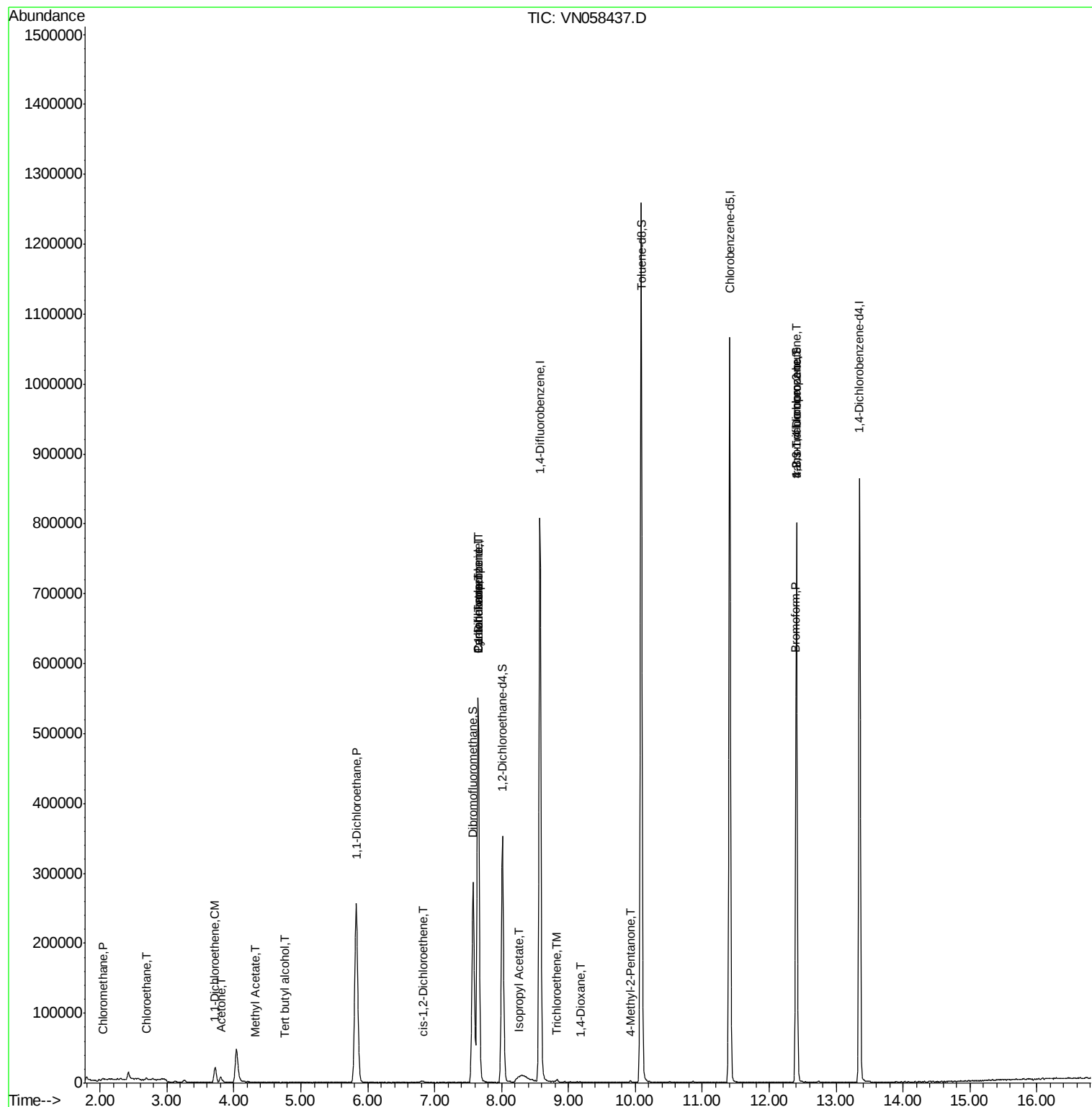
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1450	0.280	ug/l #	81
6) Chloroethane	2.69	64	2316	0.762	ug/l	96
11) Tert butyl alcohol	4.76	59	435	0.624	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	11313	2.792	ug/l	84
16) Acetone	3.80	43	14536	6.794	ug/l	93
18) Methyl Acetate	4.32	43	1352	0.251	ug/l #	53
24) 1,1-Dichloroethane	5.83	63	390668	43.750	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	1212	0.230	ug/l	41
31) Cyclohexane	7.65	56	10688	1.230	ug/l #	9
36) 1,1-Dichloropropene	7.65	75	37068	5.525	ug/l #	52
38) Carbon Tetrachloride	7.65	117	44310	7.316	ug/l #	17
43) Isopropyl Acetate	8.25	43	7064	0.660	ug/l #	63
44) Trichloroethene	8.83	130	1136	0.239	ug/l	73
49) 1,4-Dioxane	9.20	88	157	2.411	ug/l #	59
51) 4-Methyl-2-Pentanone	9.92	43	1737	0.316	ug/l #	37
71) Bromoform	12.39	173	159	0.753	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	145761	36.283	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	145761	110.197	ug/l #	7

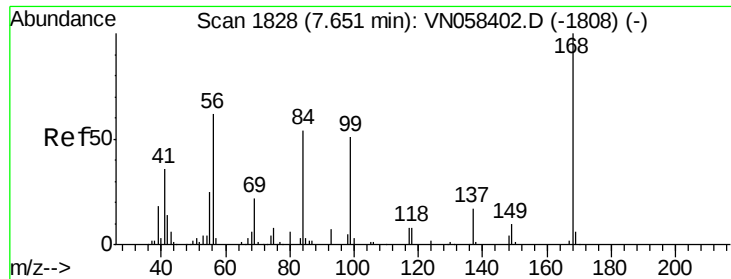
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

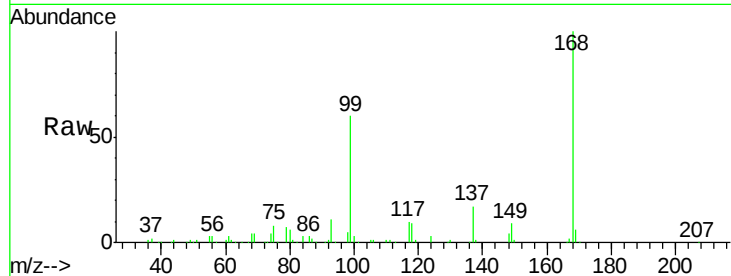
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 429489

Ion Ratio Lower Upper

168 100

99 59.9 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

200000

150000

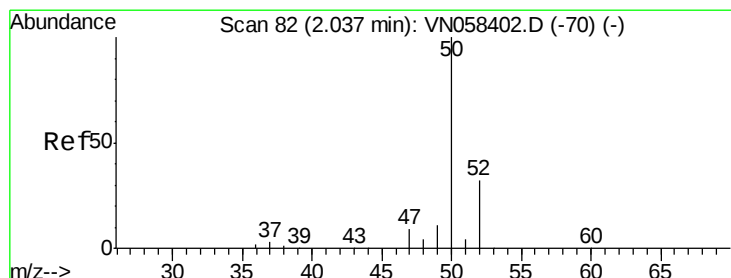
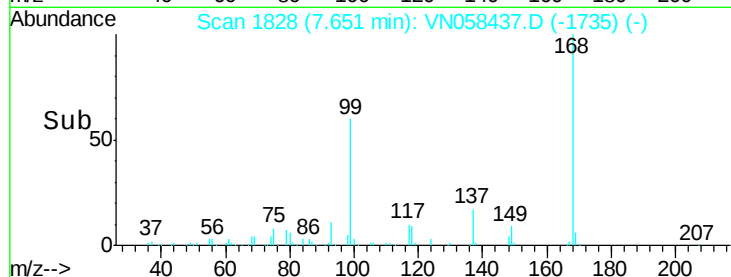
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.280 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058437.D

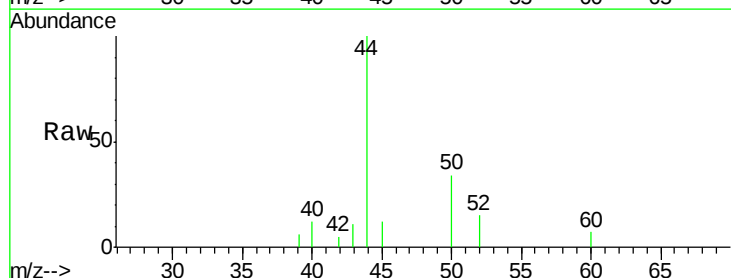
Acq: 30 Sep 2019 15:55

Tgt Ion: 50 Resp: 1450

Ion Ratio Lower Upper

50 100

52 42.9 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1200

1000

800

600

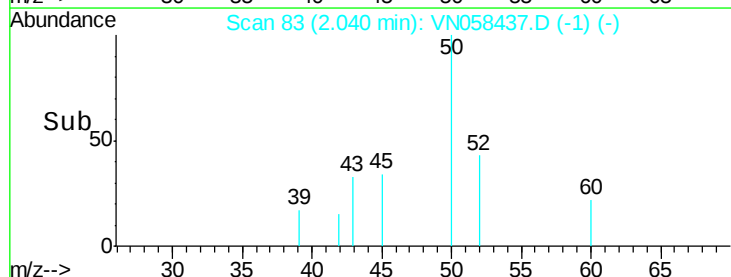
400

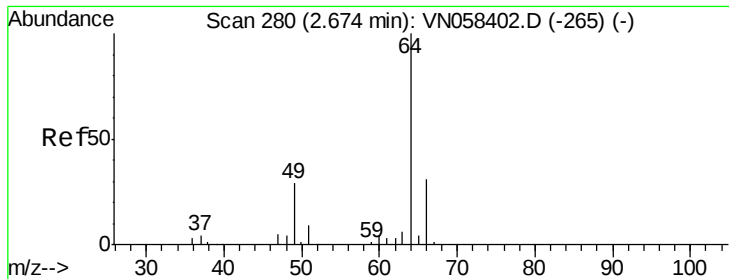
200

0

2.00 2.02 2.04 2.06

Time-->





#6

Chloroethane

Concen: 0.762 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.01 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :

MSVOA_N

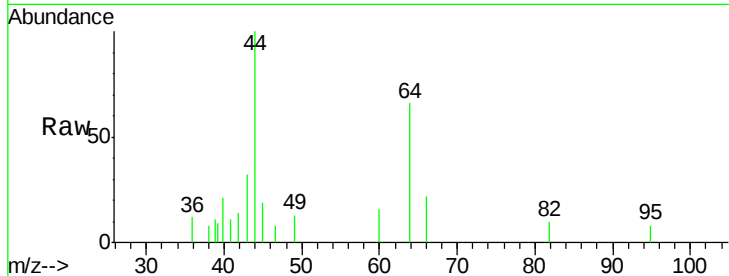
ClientSampled :

Tot Ion: 64 Resp: 2316

Ion Ratio Lower Upper

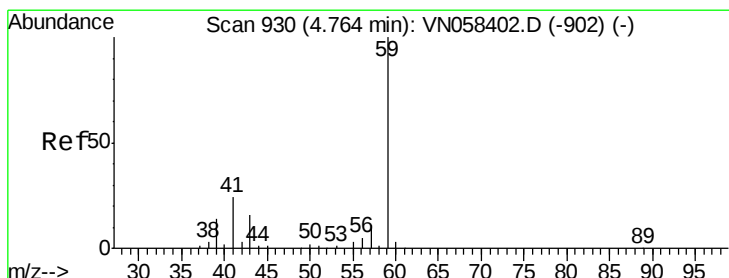
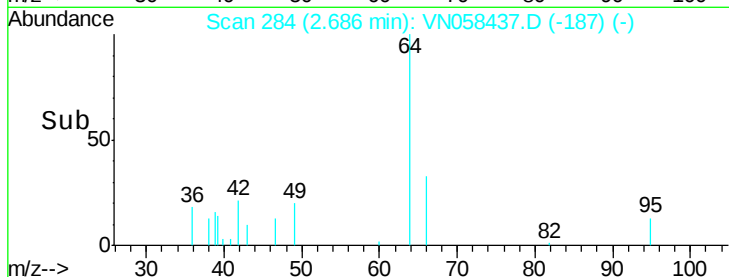
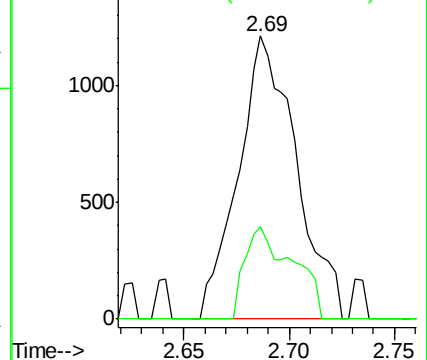
64 100

66 32.7 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 0.624 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN058437.D

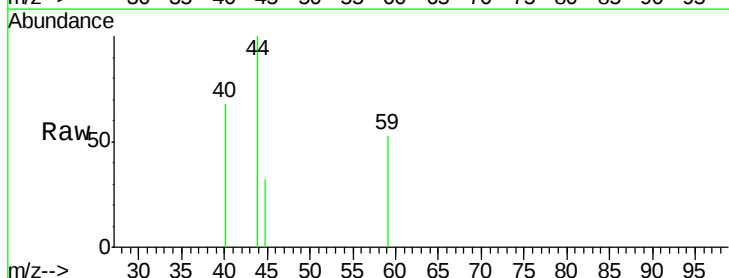
Acq: 30 Sep 2019 15:55

Tgt Ion: 59 Resp: 435

Ion Ratio Lower Upper

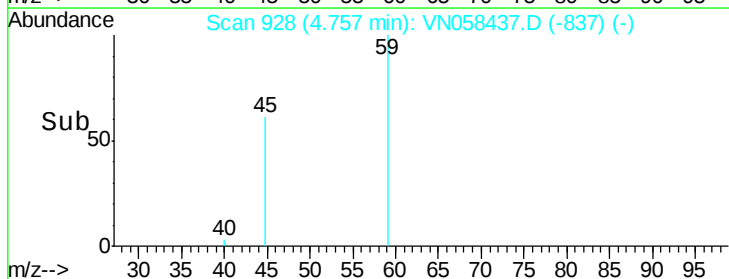
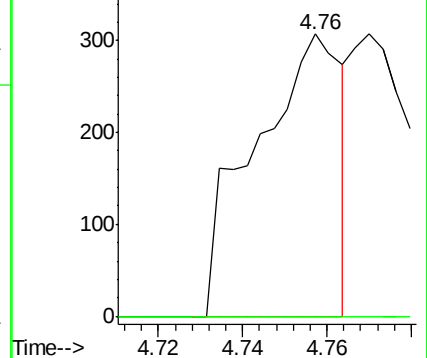
59 100

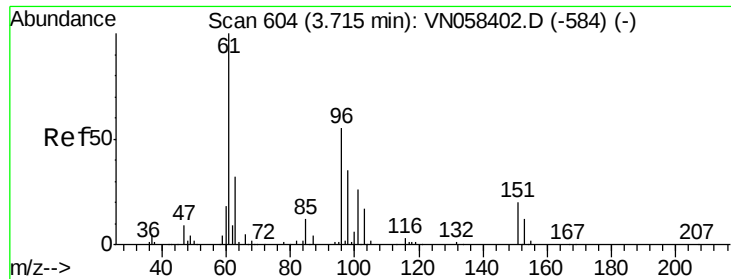
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

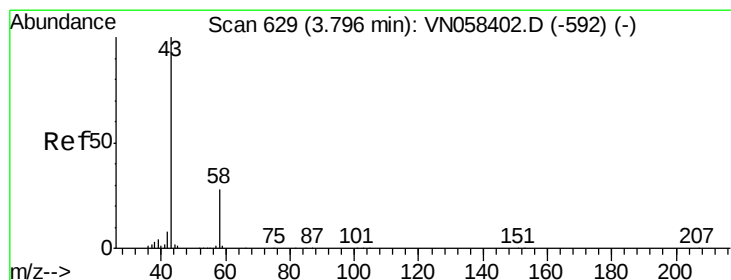
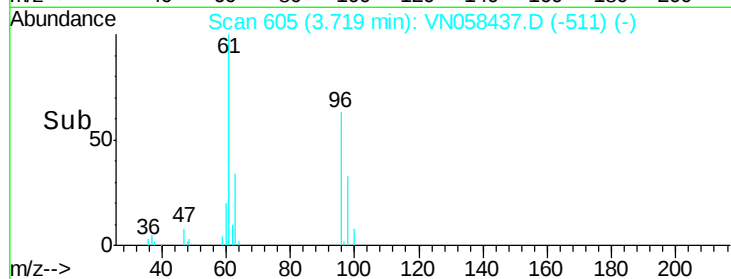
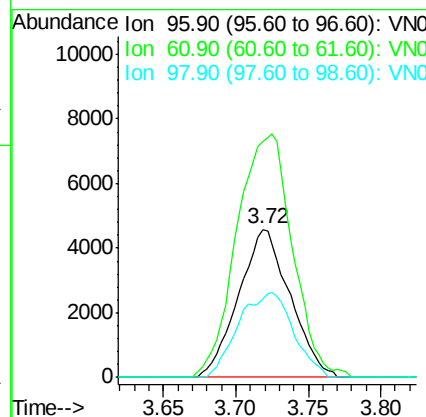
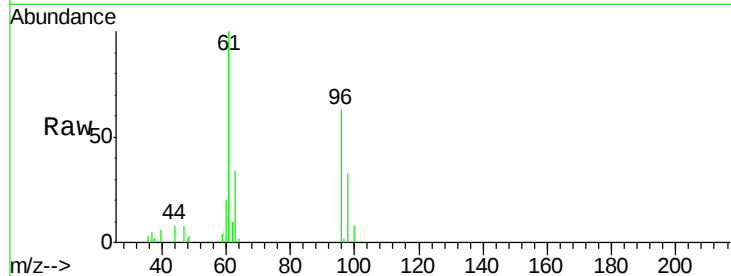




#12
 1,1-Dichloroethene
 Concen: 2.792 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN058437.D
 Acq: 30 Sep 2019 15:55

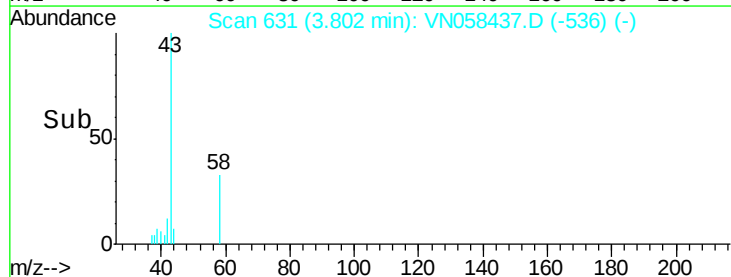
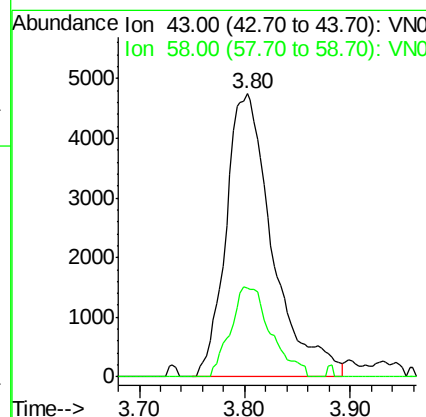
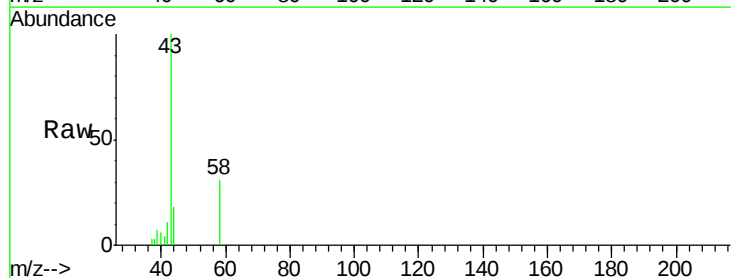
Instrument :
 MSVOA_N
 ClientSampleId :

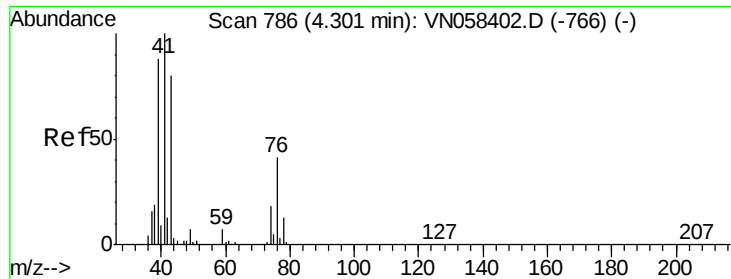
Tot Ion: 96 Resp: 11313
 Ion Ratio Lower Upper
 96 100
 61 159.4 146.7 220.1
 98 53.0 51.3 76.9



#16
 Acetone
 Concen: 6.794 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN058437.D
 Acq: 30 Sep 2019 15:55

Tgt Ion: 43 Resp: 14536
 Ion Ratio Lower Upper
 43 100
 58 31.5 22.4 33.6

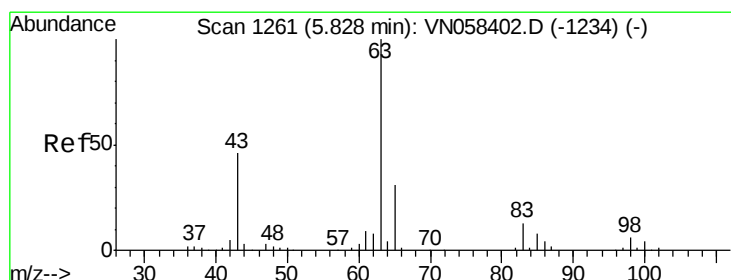
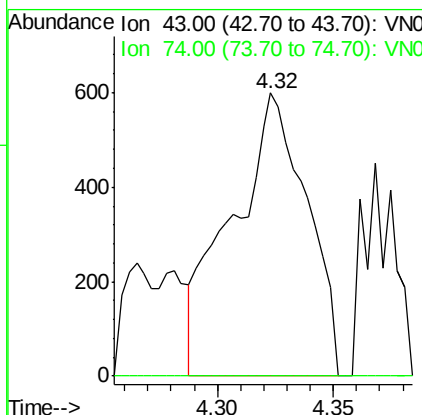
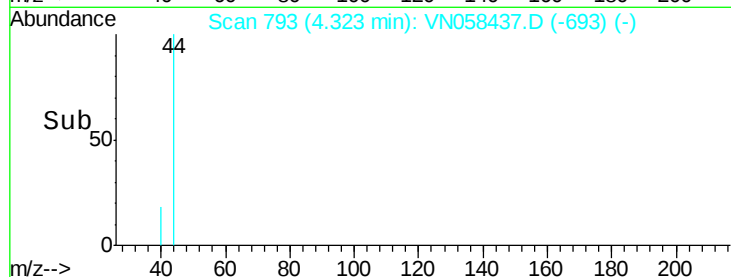
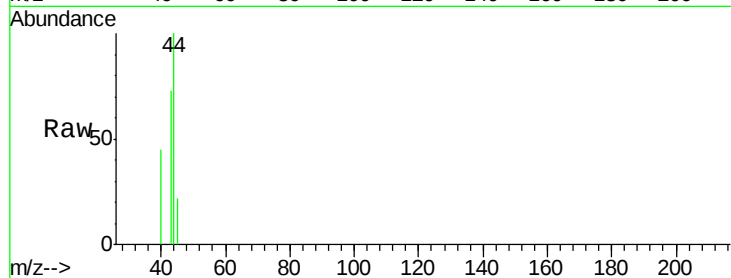




#18
Methvl Acetate
Concen: 0.251 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.02 min
Lab File: VN058437.D
Acq: 30 Sep 2019 15:55

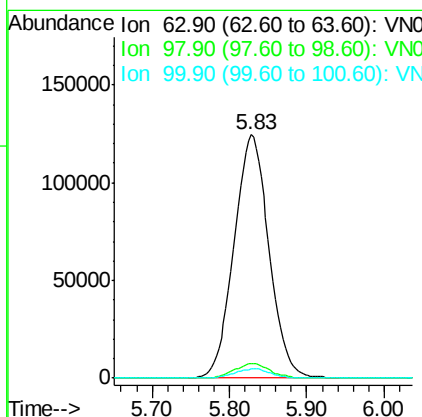
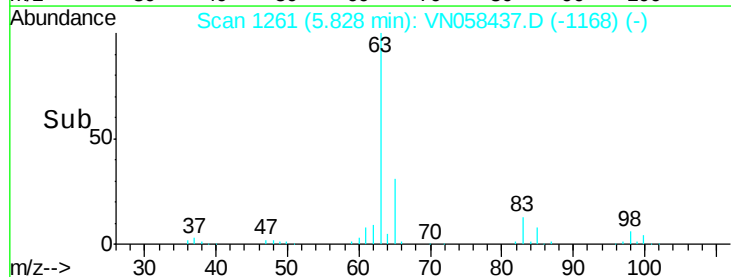
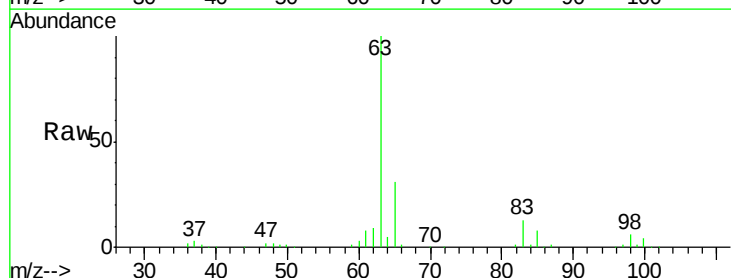
Instrument :
MSVOA_N
ClientSampleId :

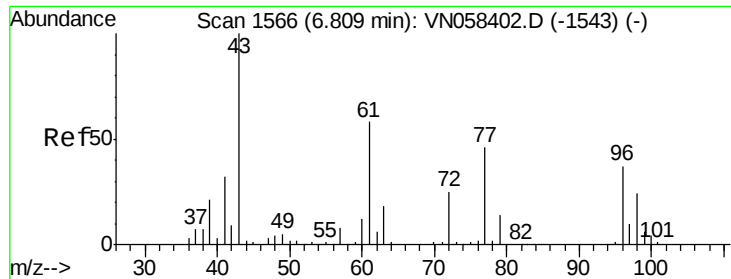
Tot Ion: 43 Resp: 1352
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#24
1,1-Dichloroethane
Concen: 43.750 ug/l
RT: 5.83 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VN058437.D
Acq: 30 Sep 2019 15:55

Tgt Ion: 63 Resp: 390668
Ion Ratio Lower Upper
63 100
98 6.0 3.0 9.0
100 3.8 2.0 5.8





#27

cis-1,2-Dichloroethene

Concen: 0.230 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :
MSVOA_N
ClientSampled :

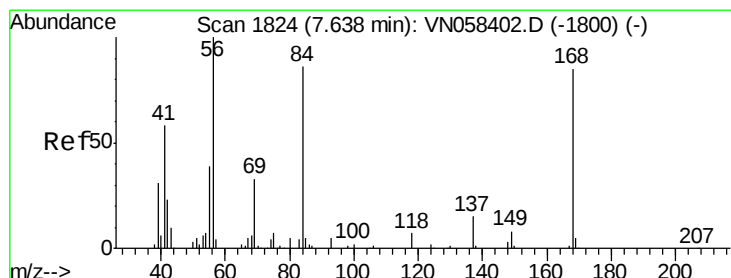
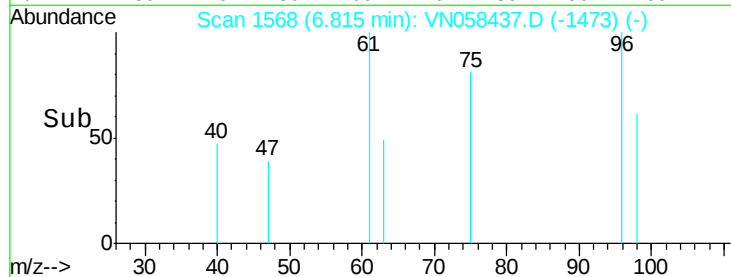
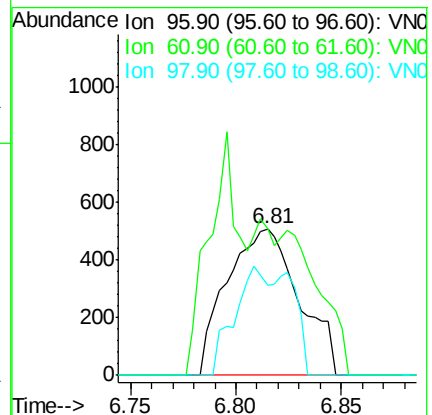
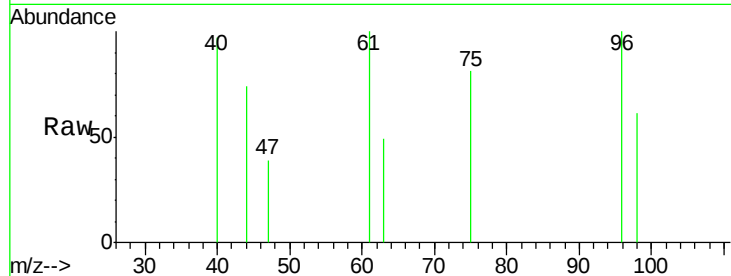
Tot Ion: 96 Resp: 1212

Ion Ratio Lower Upper

96 100

61 70.5 0.0 318.8

98 33.7 0.0 129.8



#31

Cyclohexane

Concen: 1.230 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

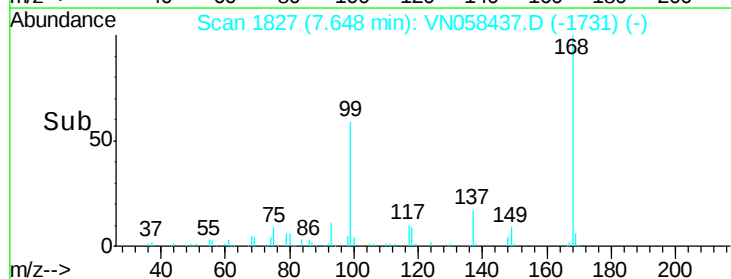
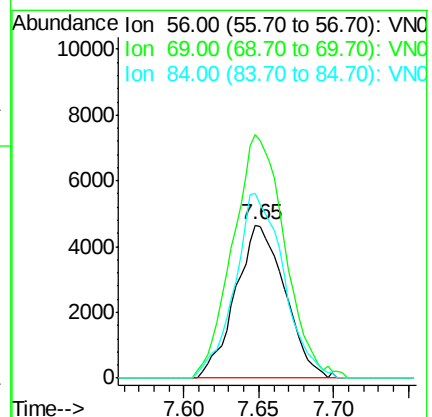
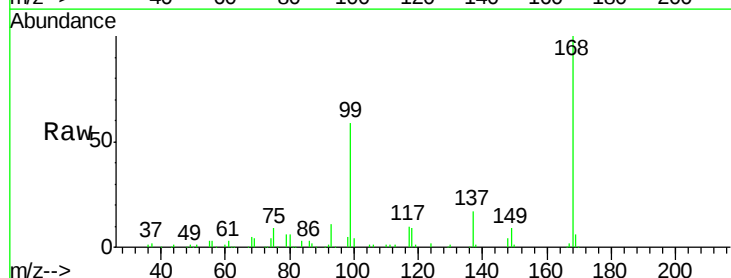
Tgt Ion: 56 Resp: 10688

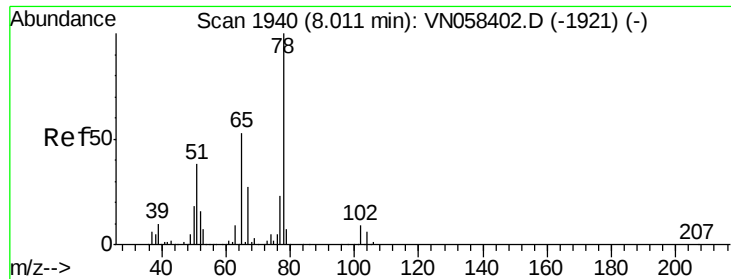
Ion Ratio Lower Upper

56 100

69 158.9 26.2 39.4#

84 120.7 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 48.881 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :

MSVOA_N

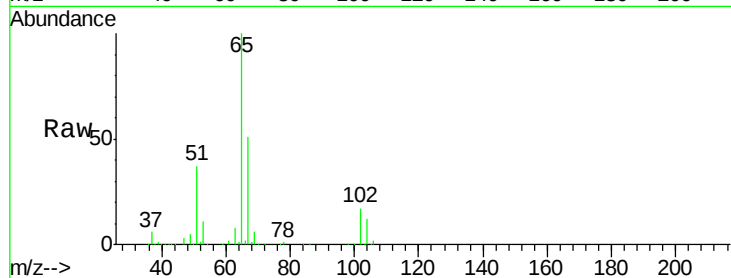
ClientSampleId :

Tot Ion: 65 Resp: 306789

Ion Ratio Lower Upper

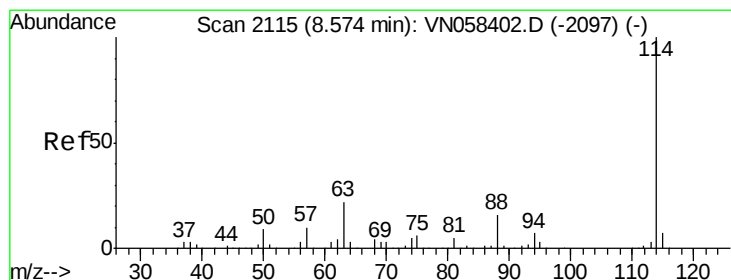
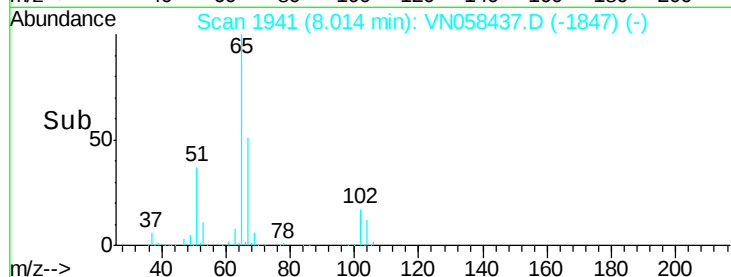
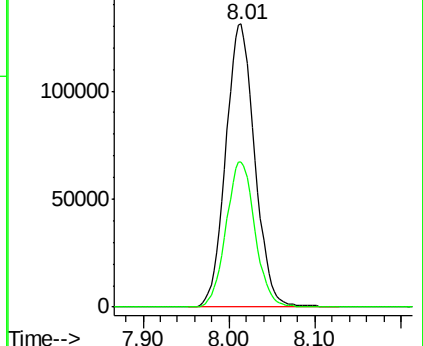
65 100

67 51.3 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058437.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058437.D (-1847) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

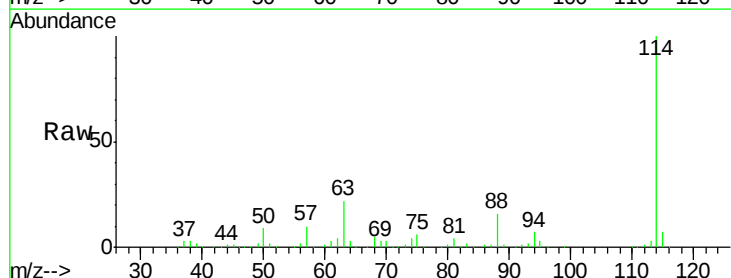
Tgt Ion: 114 Resp: 701682

Ion Ratio Lower Upper

114 100

63 22.2 0.0 45.0

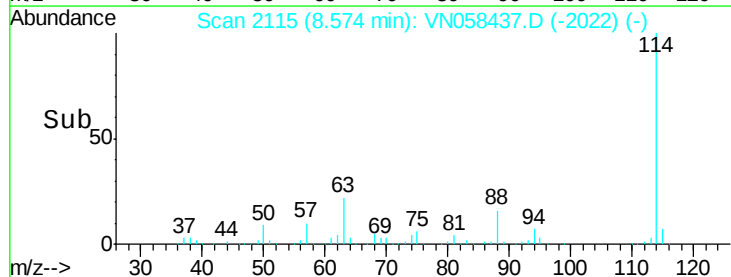
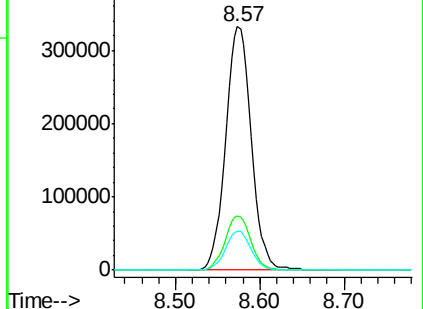
88 16.2 0.0 32.2

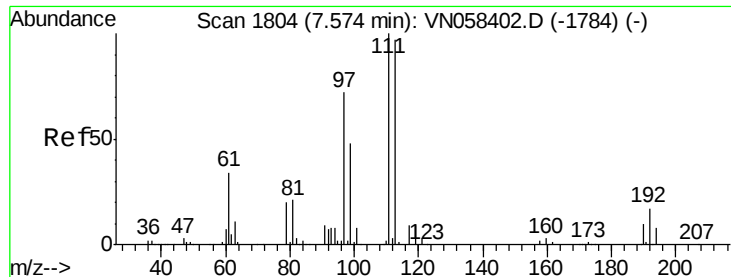


Abundance Ion 113.90 (113.60 to 114.60): VN058437.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058437.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058437.D (-2022) (-)

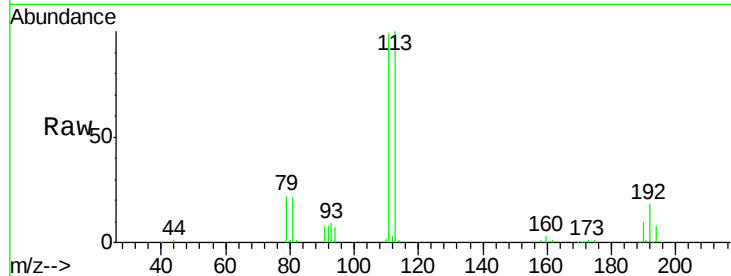




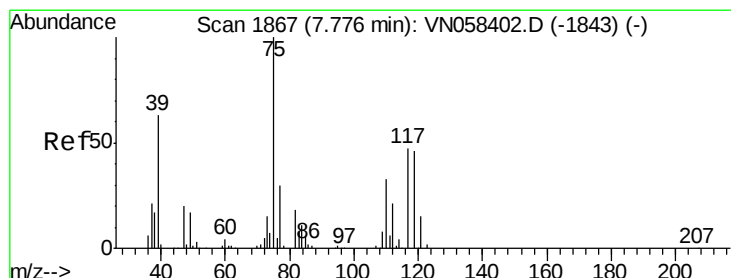
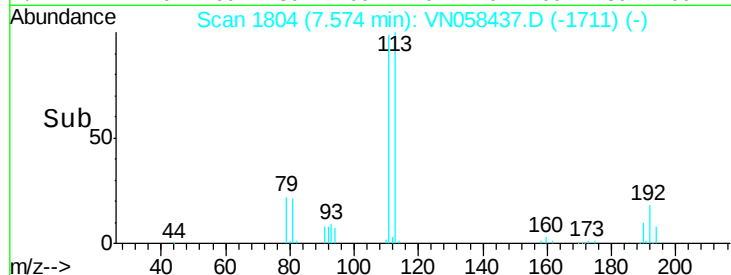
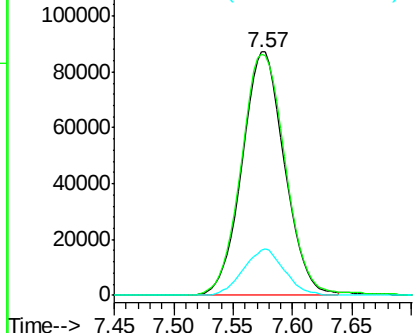
#35
 Dibromofluoromethane
 Concen: 49.965 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058437.D
 Acq: 30 Sep 2019 15:55

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	83.4	125.2
192	18.5	14.9	22.3

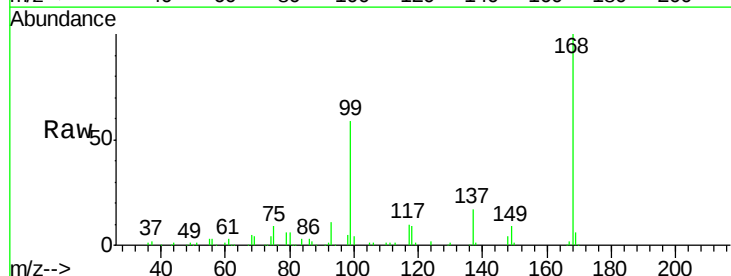


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

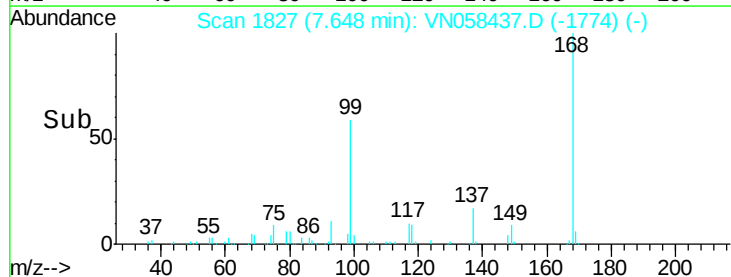
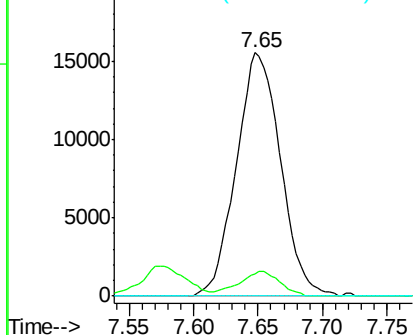


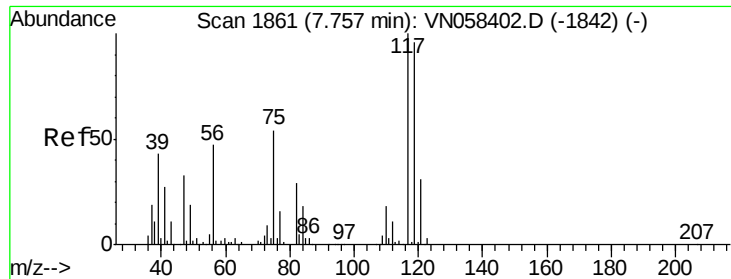
#36
 1,1-Dichloropropene
 Concen: 5.525 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058437.D
 Acq: 30 Sep 2019 15:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.4	49.2#
77	0.0	24.3	36.5#



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

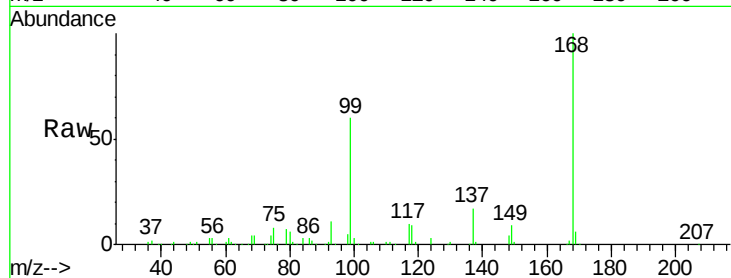




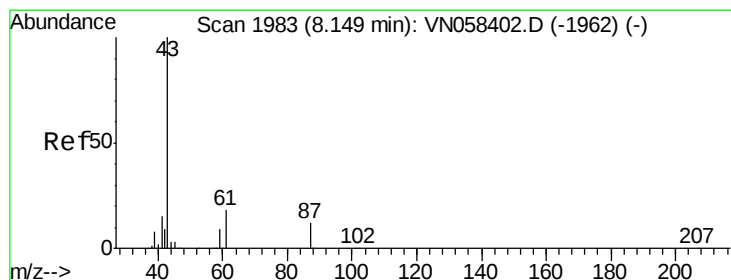
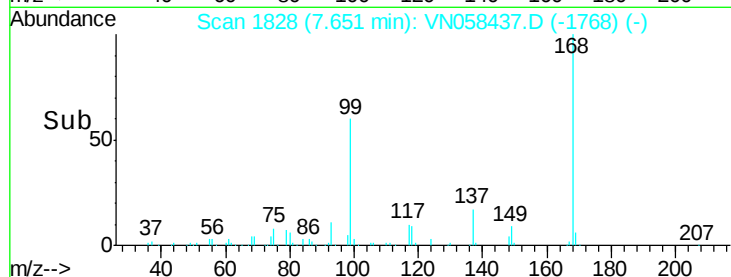
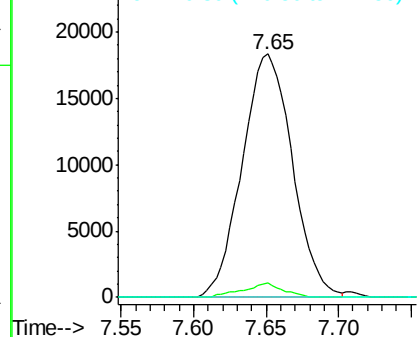
#38
Carbon Tetrachloride
Concen: 7.316 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058437.D
Acq: 30 Sep 2019 15:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 44310
Ion Ratio Lower Upper
117 100
119 5.8 76.6 115.0#
121 0.0 24.7 37.1#

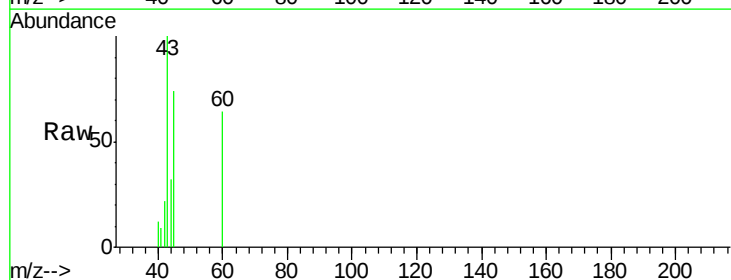


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

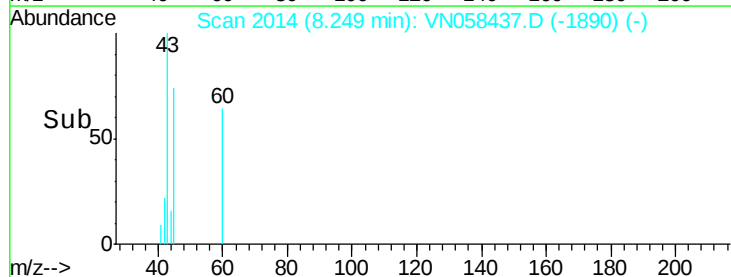
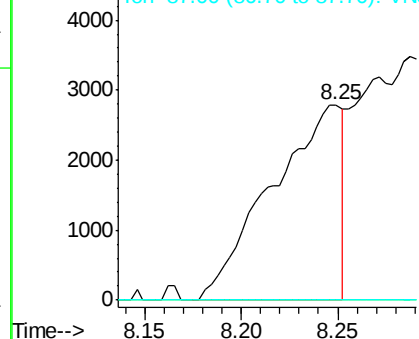


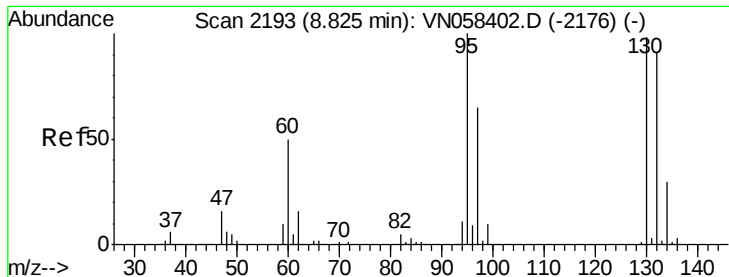
#43
Isopropyl Acetate
Concen: 0.660 ug/l
RT: 8.25 min Scan# 2014
Delta R.T. 0.10 min
Lab File: VN058437.D
Acq: 30 Sep 2019 15:55

Tgt Ion: 43 Resp: 7064
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): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#44

Trichloroethene

Concen: 0.239 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. 0.01 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :

MSVOA_N

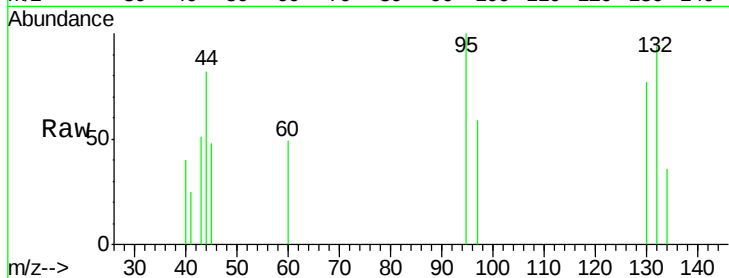
ClientSampleId :

Tot Ion:130 Resp: 1136

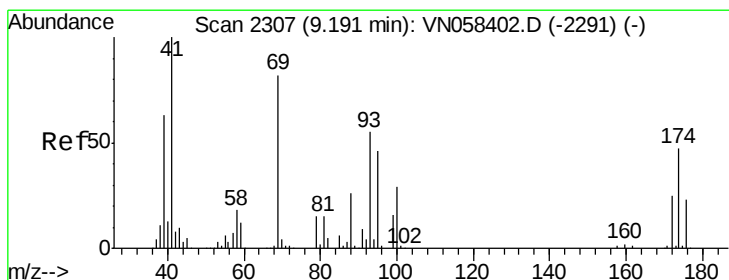
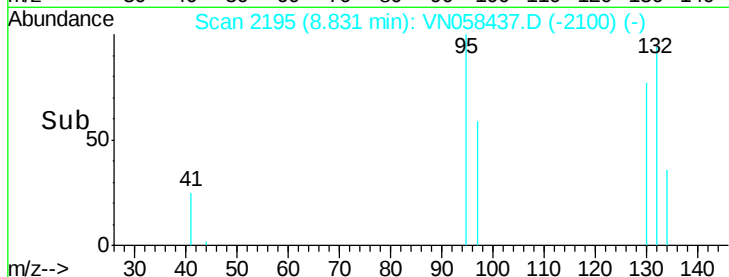
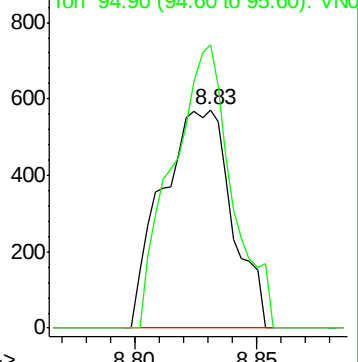
Ion Ratio Lower Upper

130 100

95 129.5 0.0 204.2



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



#49

1,4-Dioxane

Concen: 2.411 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.01 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

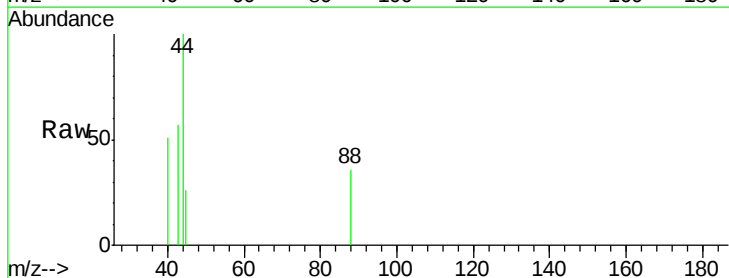
Tgt Ion: 88 Resp: 157

Ion Ratio Lower Upper

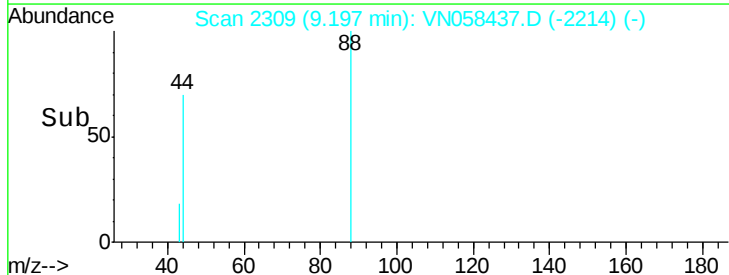
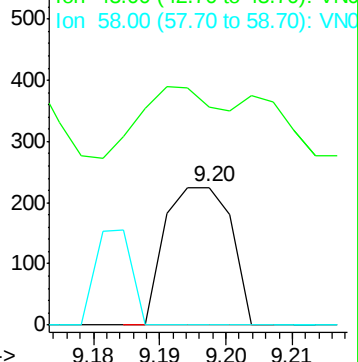
88 100

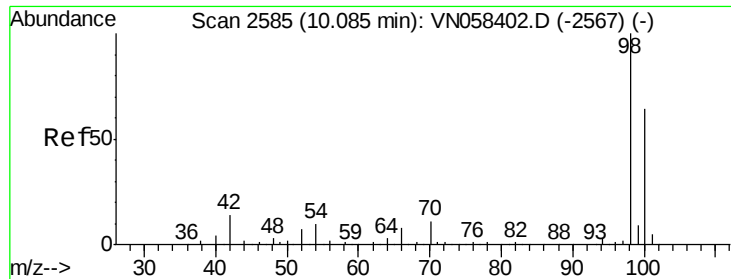
43 63.1 31.1 46.7#

58 38.2 58.1 87.1#



Abundance Ion 88.00 (87.70 to 88.70): VN058402.D (-2291) (-)





#50

Toluene-d8

Concen: 51.500 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :

MSVOA_N

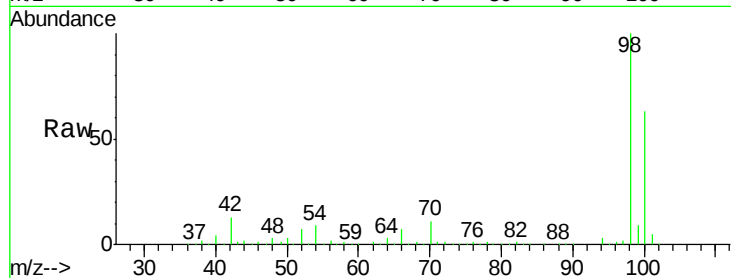
ClientSampled :

Tot Ion: 98 Resp: 867620

Ion Ratio Lower Upper

98 100

100 63.4 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

500000

400000

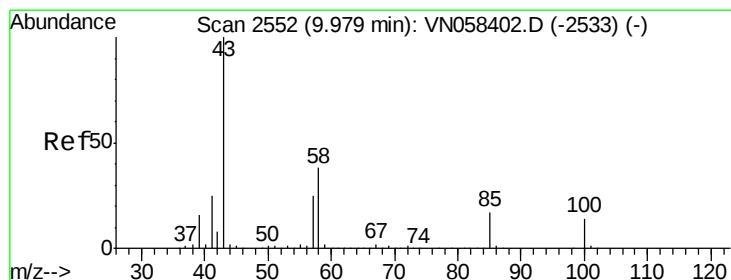
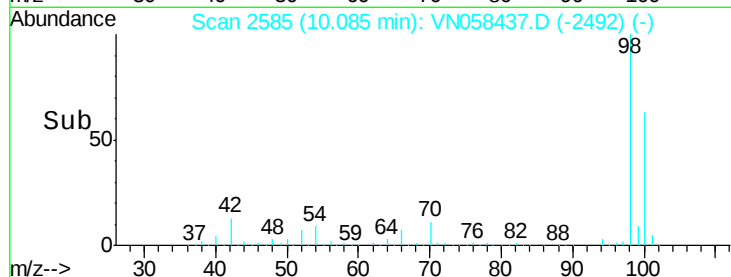
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.316 ug/l

RT: 9.92 min Scan# 2535

Delta R.T. -0.05 min

Lab File: VN058437.D

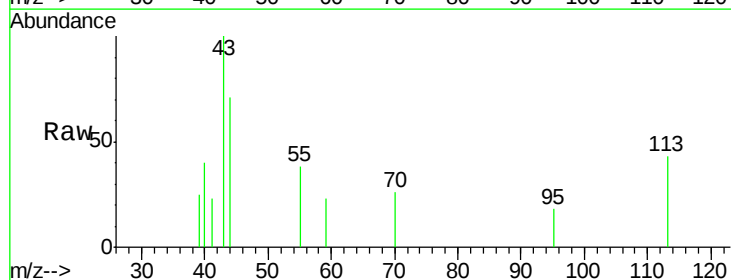
Acq: 30 Sep 2019 15:55

Tgt Ion: 43 Resp: 1737

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.92

1000

800

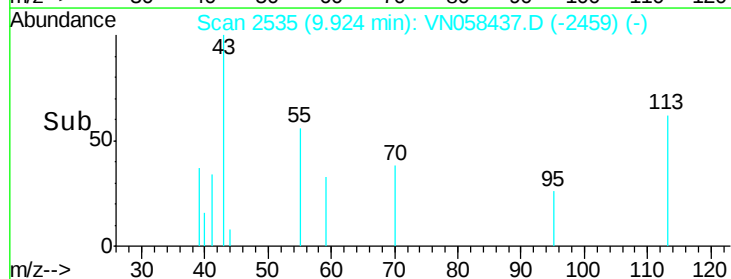
600

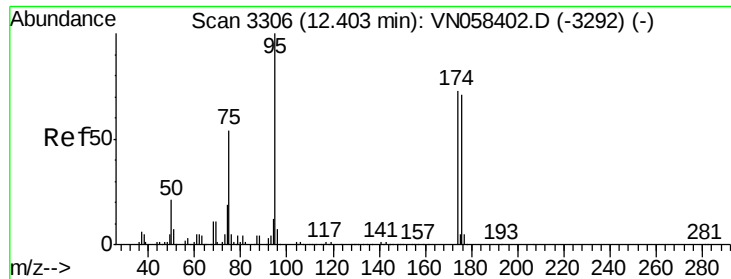
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 44.132 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampleId :

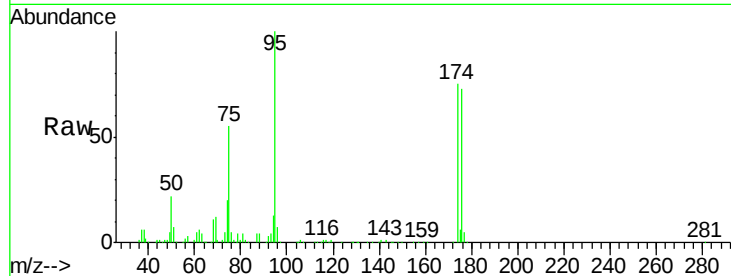
Tot Ion: 95 Resp: 268831

Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.6

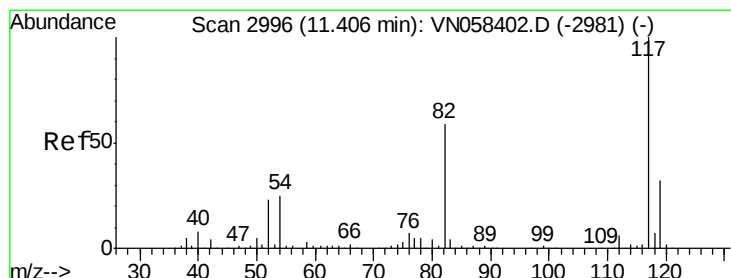
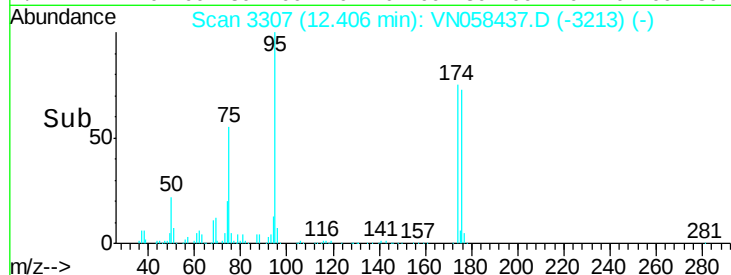
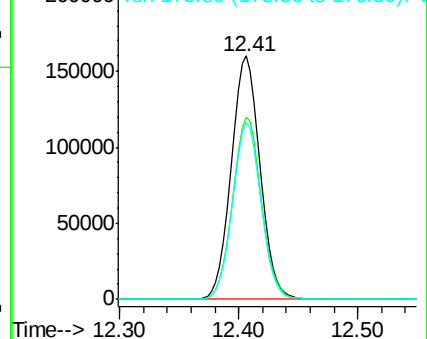
176 71.9 0.0 146.2



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: VN058437.D

Acq: 30 Sep 2019 15:55

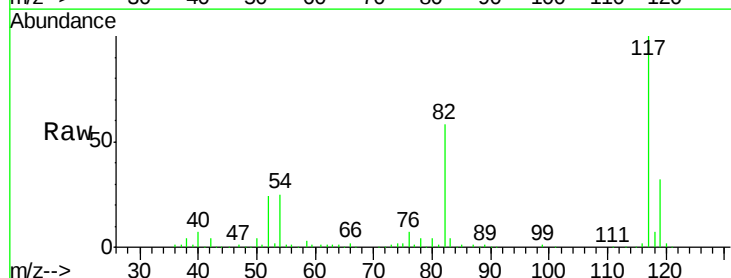
Tgt Ion: 117 Resp: 585392

Ion Ratio Lower Upper

117 100

82 57.8 47.4 71.0

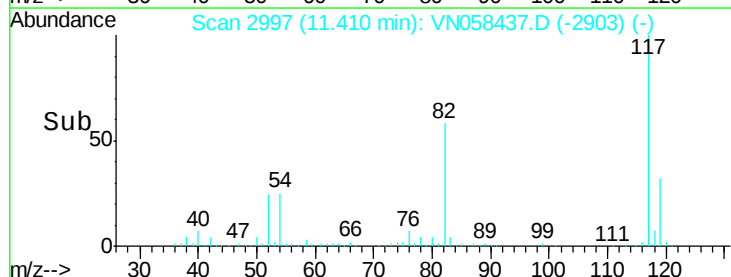
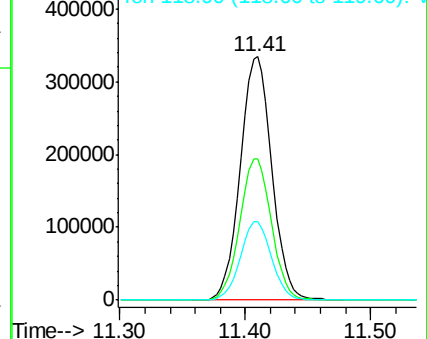
119 32.1 25.5 38.3

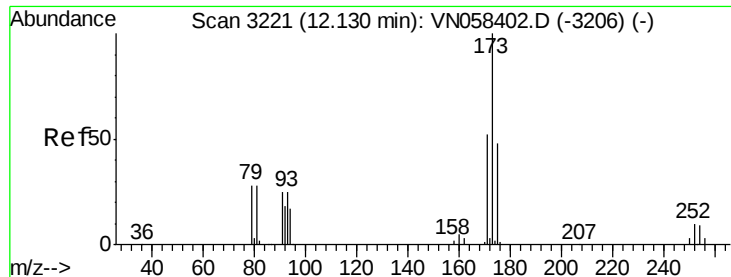


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

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

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





#71

Bromoform

Concen: 0.753 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampleId :

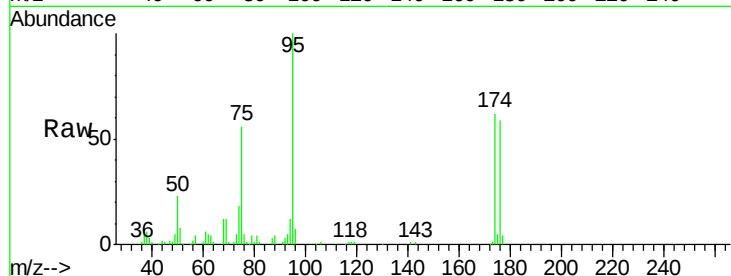
Tot Ion:173 Resp: 159

Ion Ratio Lower Upper

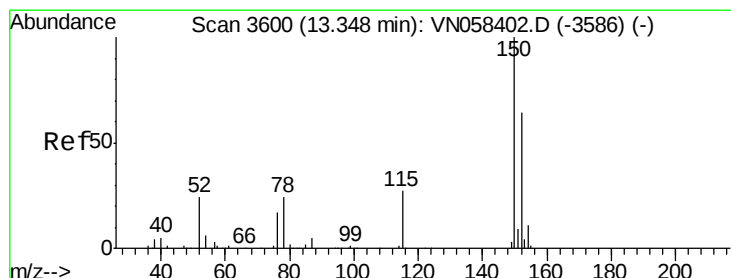
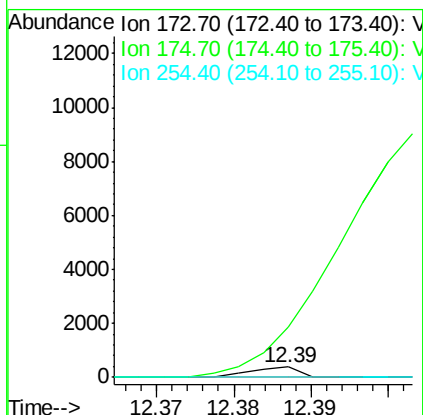
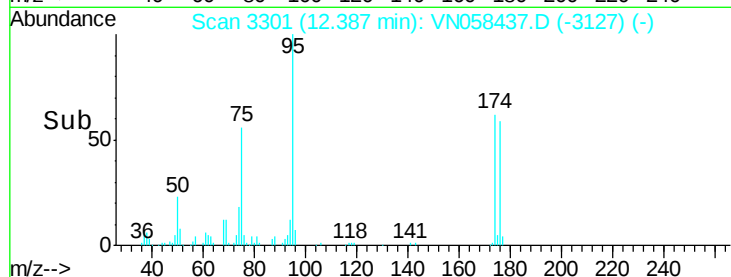
173 100

175 8149.1 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: VN058437.D

Acq: 30 Sep 2019 15:55

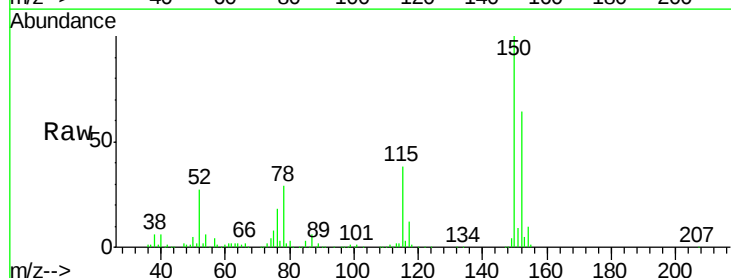
Tgt Ion:152 Resp: 219945

Ion Ratio Lower Upper

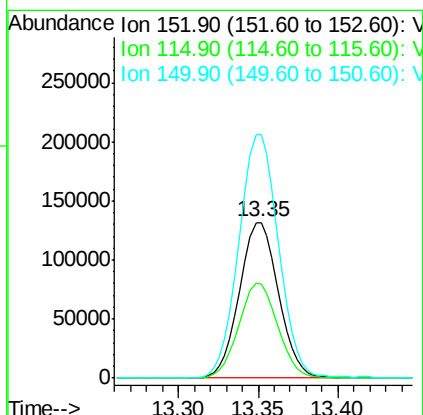
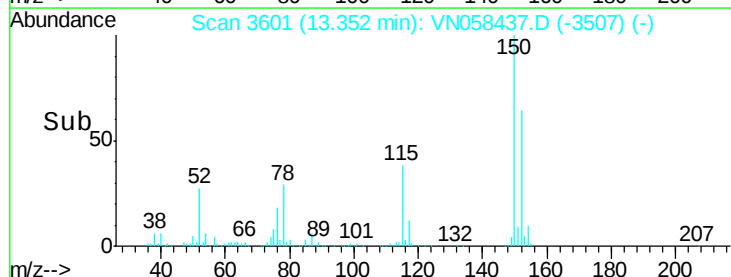
152 100

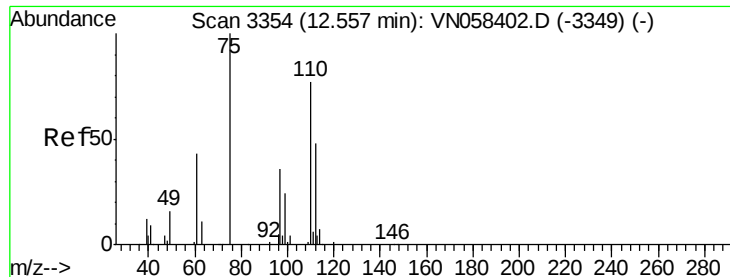
115 61.0 30.0 90.0

150 158.5 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: 36.283 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

Instrument :

MSVOA_N

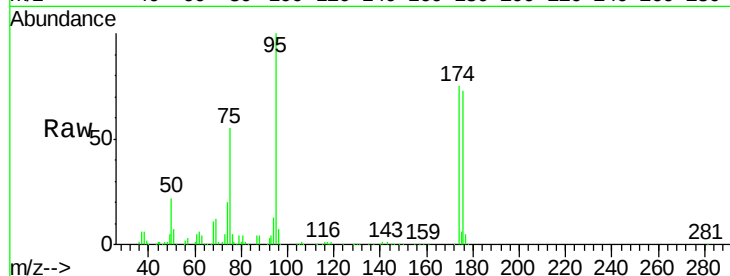
ClientSampleId :

Tot Ion: 75 Resp: 145761

Ion Ratio Lower Upper

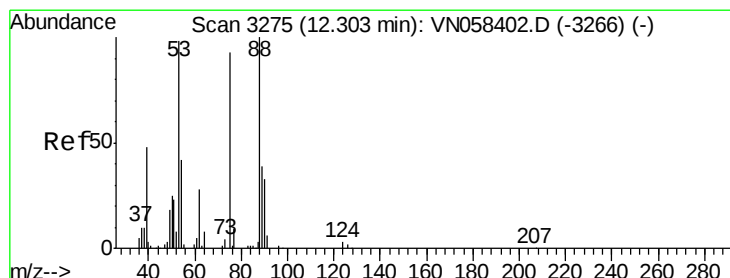
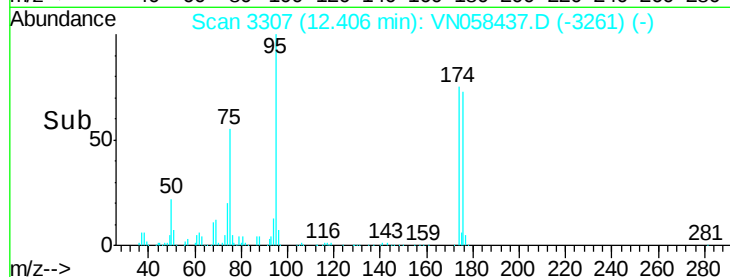
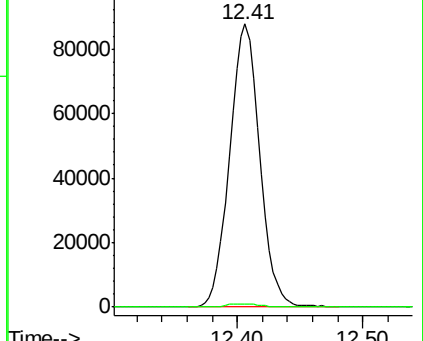
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 110.197 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058437.D

Acq: 30 Sep 2019 15:55

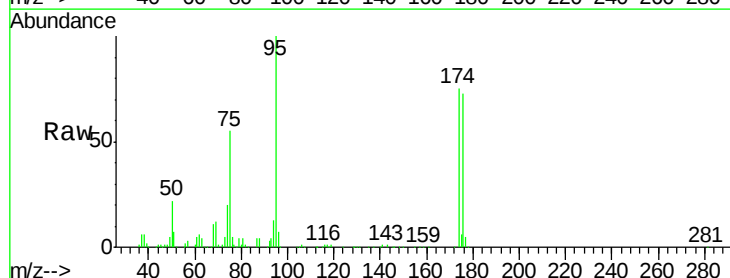
Tgt Ion: 75 Resp: 145761

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

