

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058761.D
 Acq On : 14 Oct 2019 19:52
 Operator : JC/SP
 Sample : K5335-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-GAC2-191010

Quant Time: Oct 15 03:15:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	386390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	647345	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	588058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	241809	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	297909	55.07	ug/l	0.00
Spiked Amount			Recovery	=	110.14%	
35) Dibromofluoromethane	7.57	113	210502	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
50) Toluene-d8	10.08	98	782169	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
62) 4-Bromofluorobenzene	12.40	95	260191	42.99	ug/l	0.00
Spiked Amount			Recovery	=	85.98%	

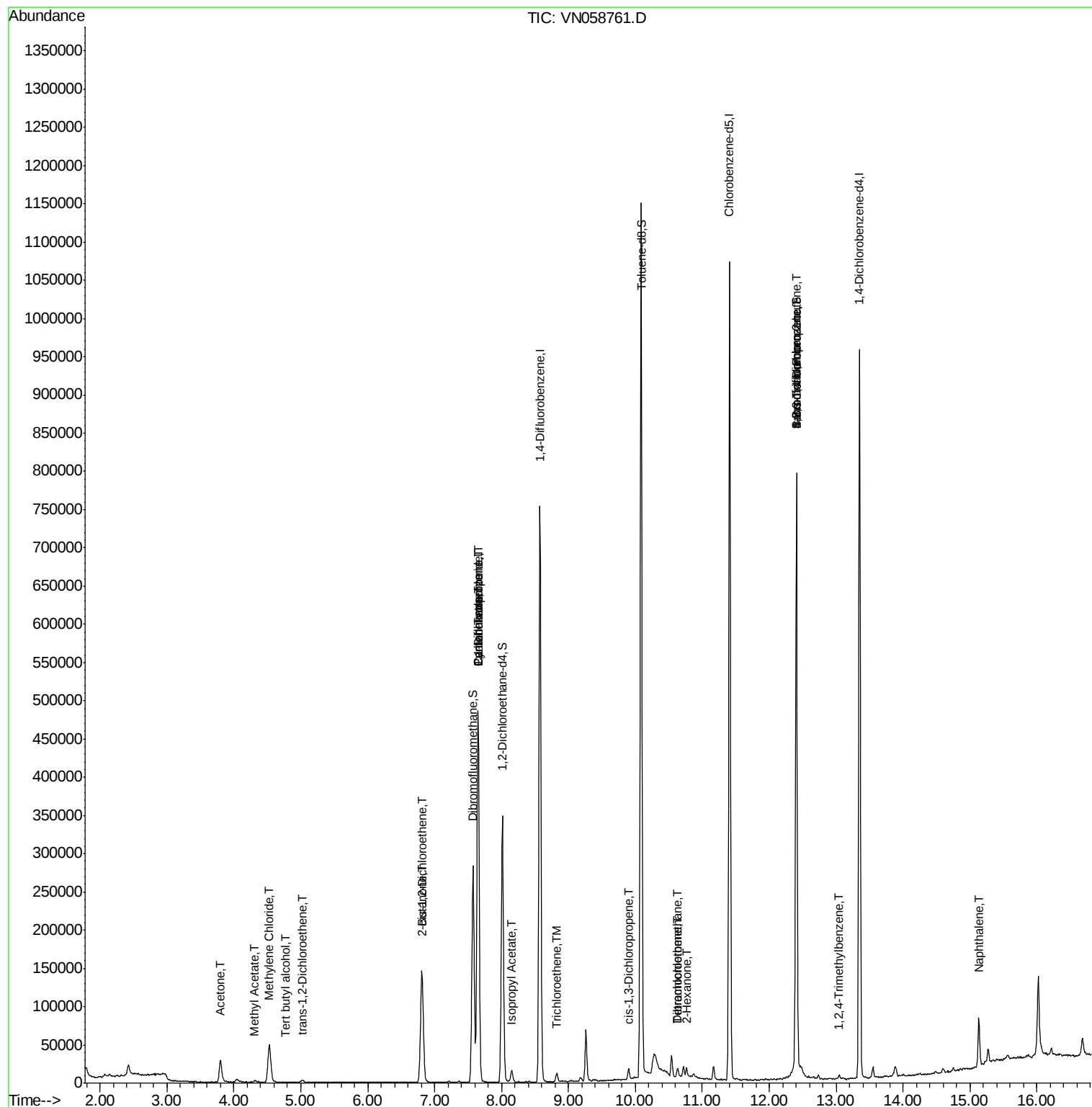
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	376	0.429	ug/l #	72
16) Acetone	3.80	43	49557	22.129	ug/l	97
18) Methyl Acetate	4.31	43	3333	0.587	ug/l #	81
20) Methylene Chloride	4.53	84	35871	7.664	ug/l	99
21) trans-1,2-Dichloroethene	5.02	96	1577	0.380	ug/l #	66
25) 2-Butanone	6.83	43	1669	0.516	ug/l #	42
27) cis-1,2-Dichloroethene	6.81	96	90658	18.730	ug/l	86
31) Cyclohexane	7.65	56	9478	1.195	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	32498	4.965	ug/l #	50
38) Carbon Tetrachloride	7.65	117	38398	6.020	ug/l #	17
43) Isopropyl Acetate	8.15	43	18021	1.598	ug/l #	91
44) Trichloroethene	8.82	130	4088	0.876	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	2518	0.318	ug/l #	71
59) 2-Hexanone	10.76	43	1318	0.269	ug/l	67
60) Dibromochloromethane	10.63	129	1792	0.369	ug/l #	11
64) Tetrachloroethene	10.63	164	1797	0.437	ug/l	84
71) Bromoform	12.41	173	1674	0.517	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	138080	26.030	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	138080	69.725	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.05	105	3412	0.230	ug/l	99
95) Naphthalene	15.13	128	46985	3.500	ug/l	97

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

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 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: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

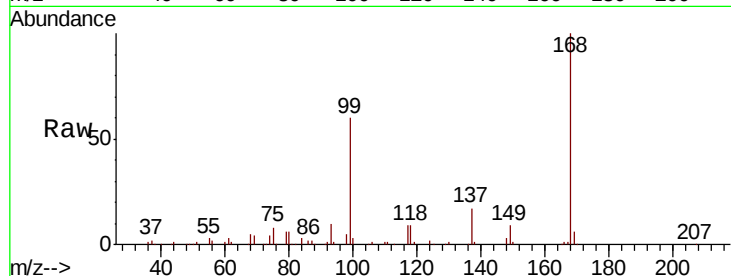
IDW-GAC2-191010

Tot Ion:168 Resp: 386390

Ion Ratio Lower Upper

168 100

99 59.7 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

150000

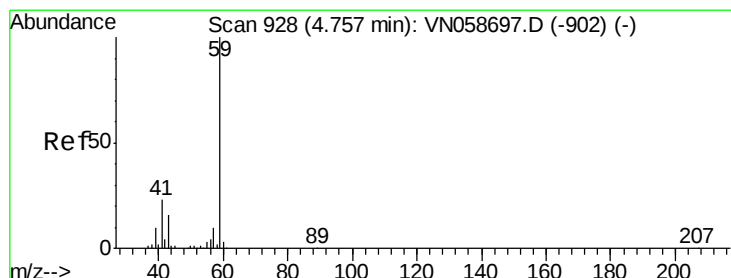
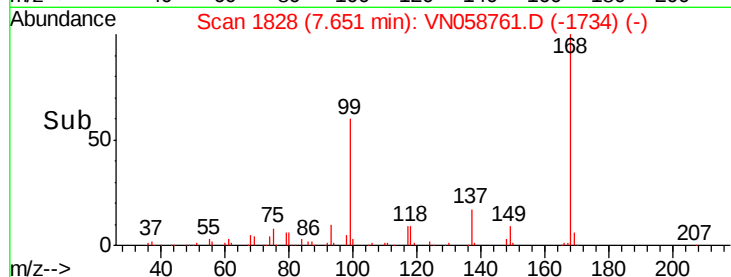
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.429 ug/l

RT: 4.77 min Scan# 931

Delta R.T. 0.01 min

Lab File: VN058761.D

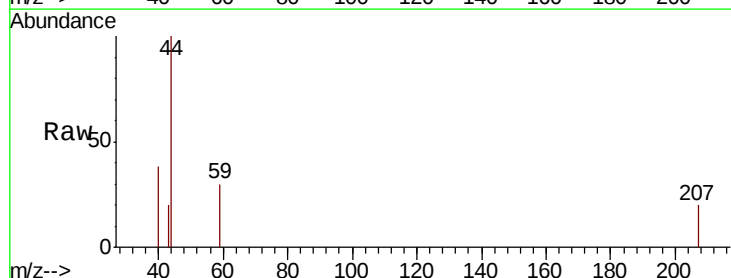
Acq: 14 Oct 2019 19:52

Tgt Ion: 59 Resp: 376

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

300

250

200

150

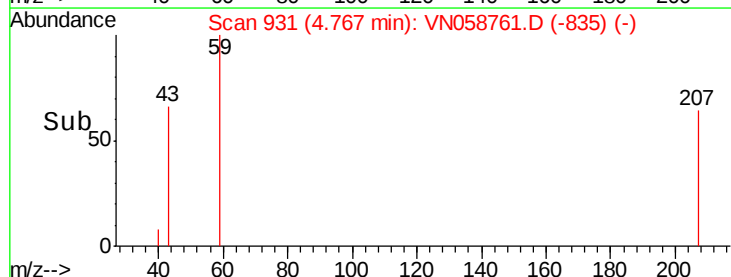
100

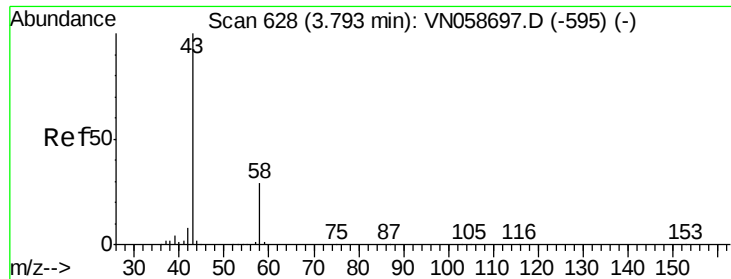
50

0

4.74 4.76 4.78

Time-->





#16

Acetone

Concen: 22.129 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

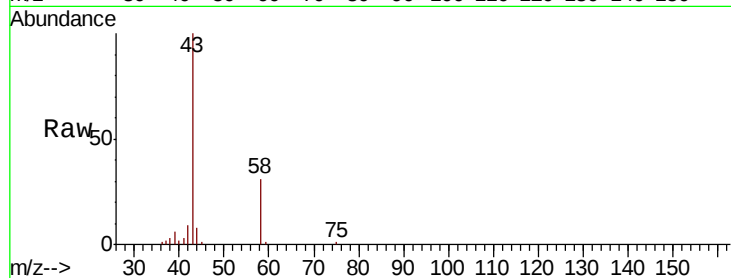
IDW-GAC2-191010

Tot Ion: 43 Resp: 49557

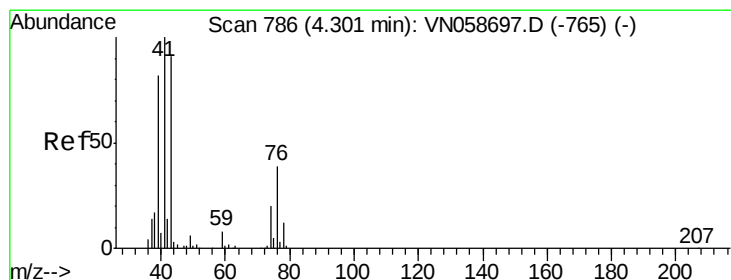
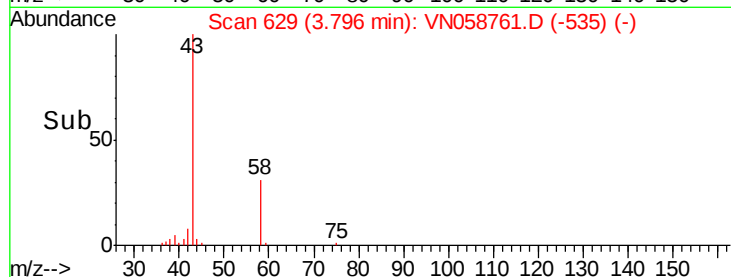
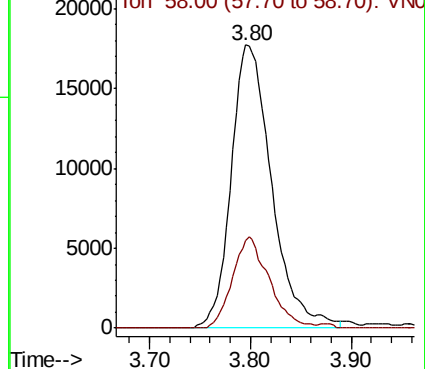
Ion Ratio Lower Upper

43 100

58 31.0 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058761.D (-535) (-)



#18

Methyl Acetate

Concen: 0.587 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058761.D

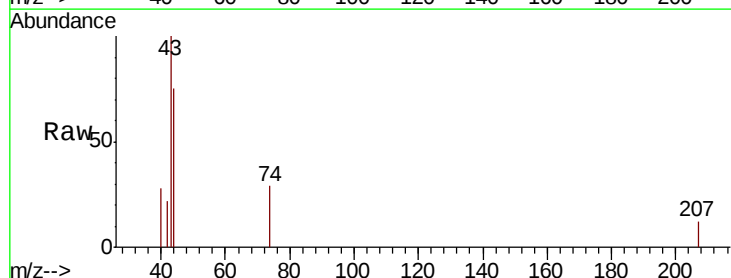
Acq: 14 Oct 2019 19:52

Tgt Ion: 43 Resp: 3333

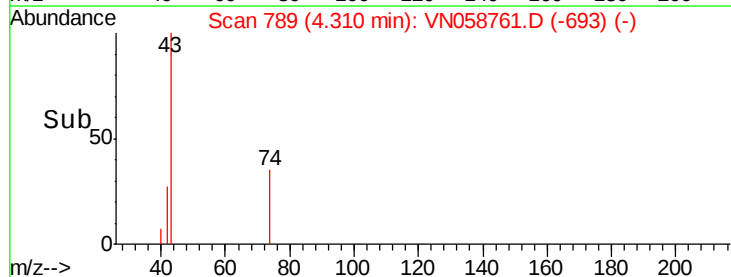
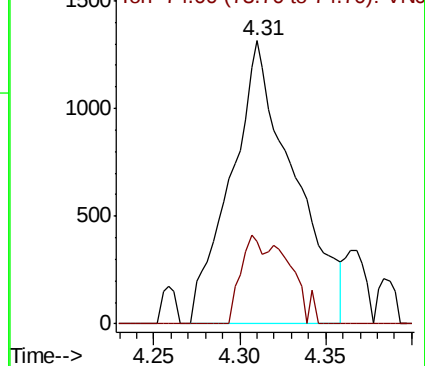
Ion Ratio Lower Upper

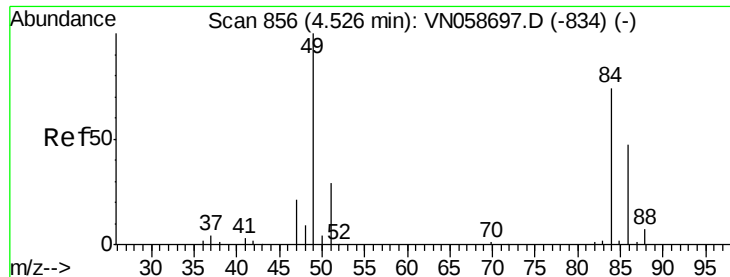
43 100

74 12.7 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN058761.D (-693) (-)

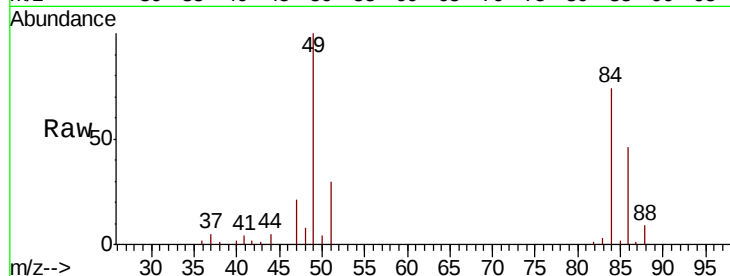




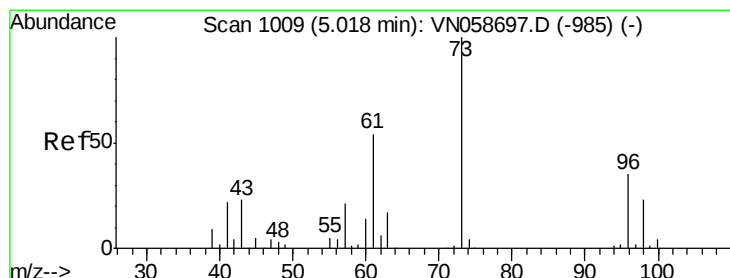
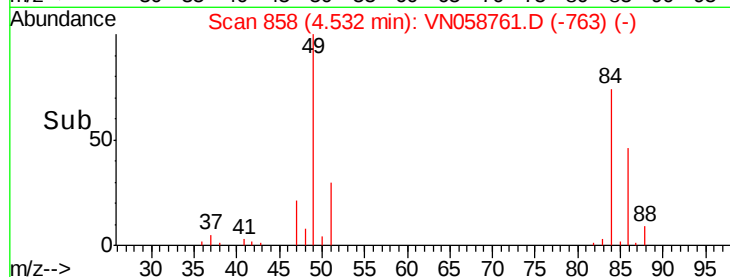
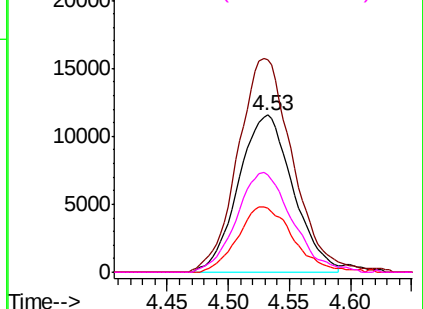
#20
Methylene Chloride
Concen: 7.664 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058761.D
Acq: 14 Oct 2019 19:52

Instrument :
MSVOA_N
ClientSampleId :
IDW-GAC2-191010

Tot Ion: 84 Resp: 35871
Ion Ratio Lower Upper
84 100
49 135.1 107.6 161.4
51 40.8 31.4 47.0
86 62.0 50.3 75.5

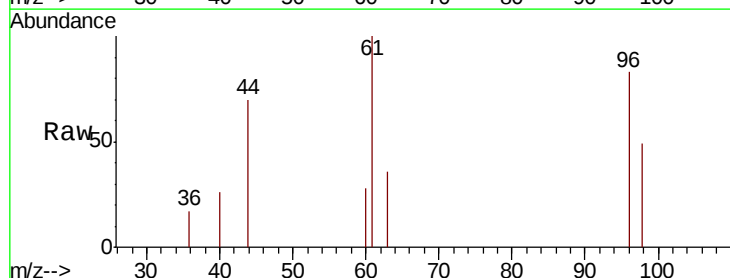


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

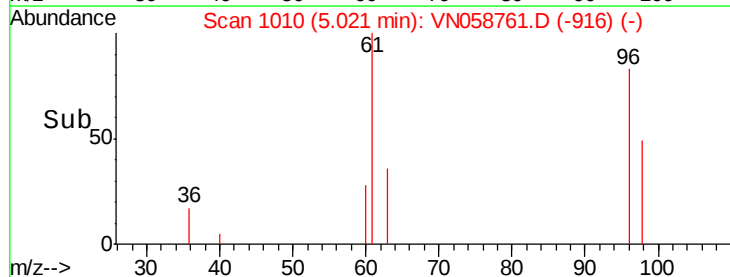
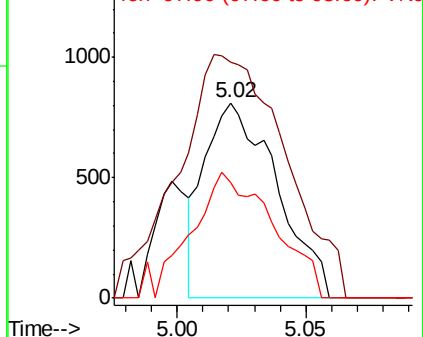


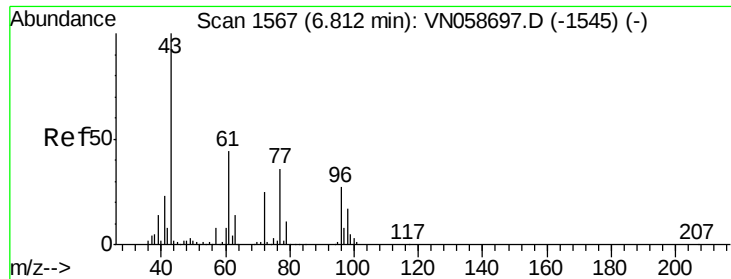
#21
trans-1,2-Dichloroethene
Concen: 0.380 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058761.D
Acq: 14 Oct 2019 19:52

Tgt Ion: 96 Resp: 1577
Ion Ratio Lower Upper
96 100
61 96.3 123.6 185.4#
98 59.0 52.1 78.1



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#25

2-Butanone

Concen: 0.516 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.02 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

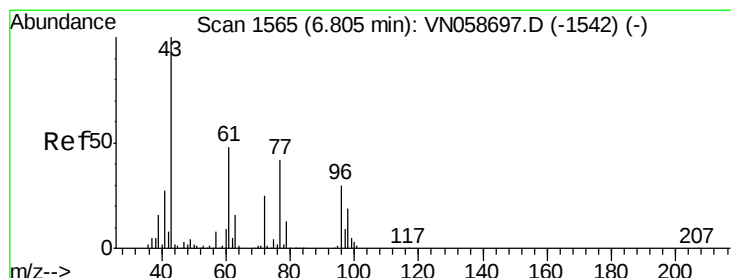
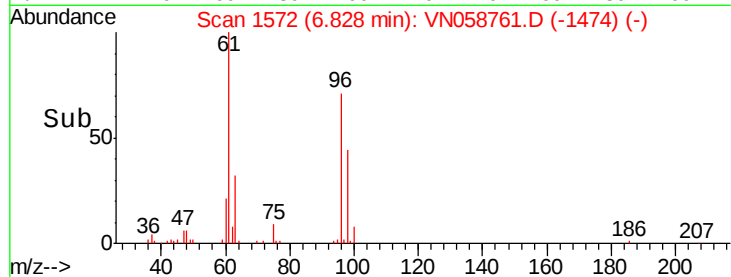
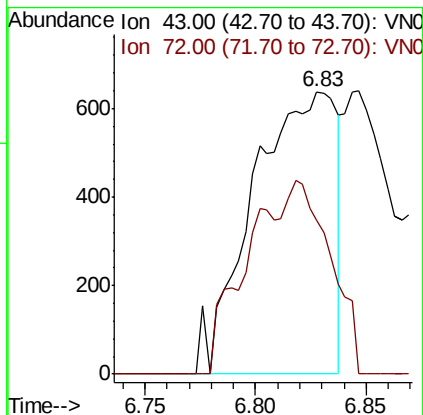
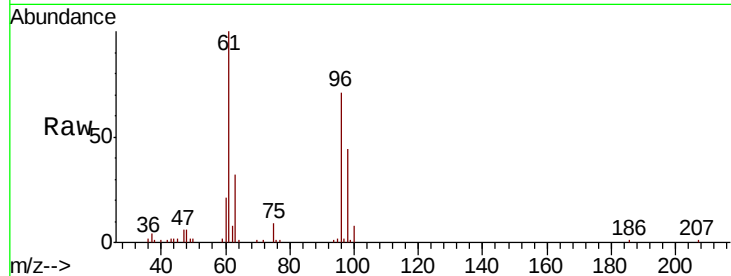
IDW-GAC2-191010

Tot Ion: 43 Resp: 1669

Ion Ratio Lower Upper

43 100

72 54.6 20.2 30.2#



#27

cis-1,2-Dichloroethene

Concen: 18.730 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

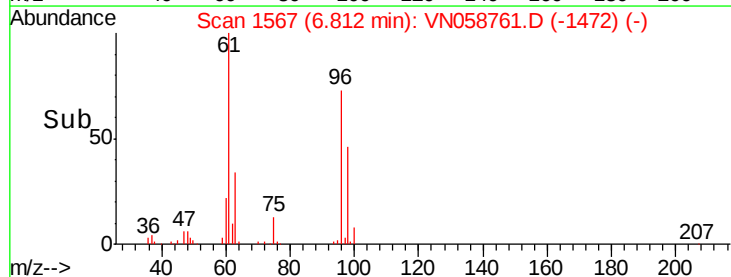
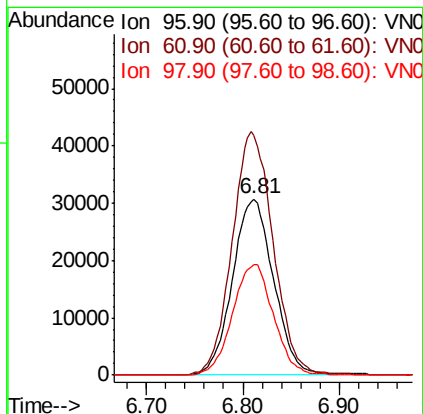
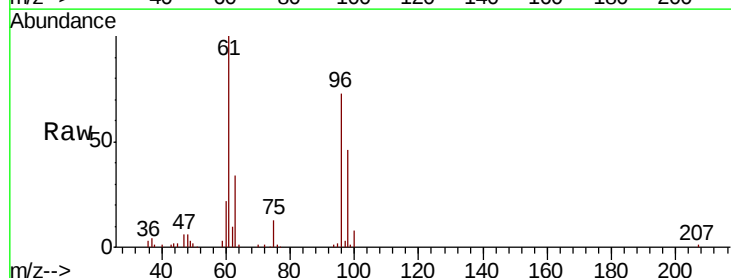
Tgt Ion: 96 Resp: 90658

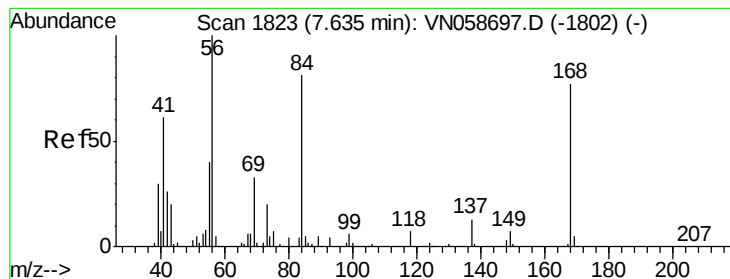
Ion Ratio Lower Upper

96 100

61 137.6 0.0 324.8

98 62.5 0.0 129.2





#31

Cyclohexane

Concen: 1.195 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

IDW-GAC2-191010

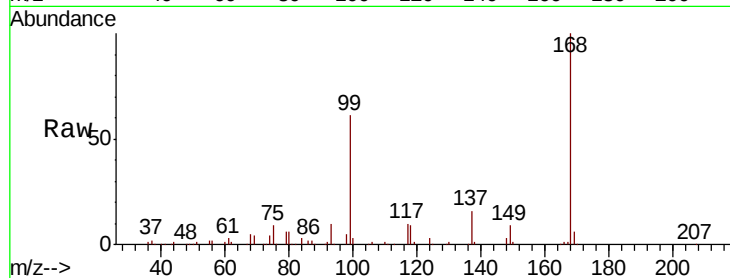
Tot Ion: 56 Resp: 9478

Ion Ratio Lower Upper

56 100

69 172.0 26.2 39.4#

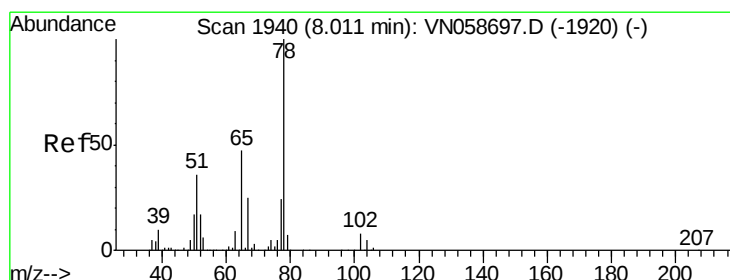
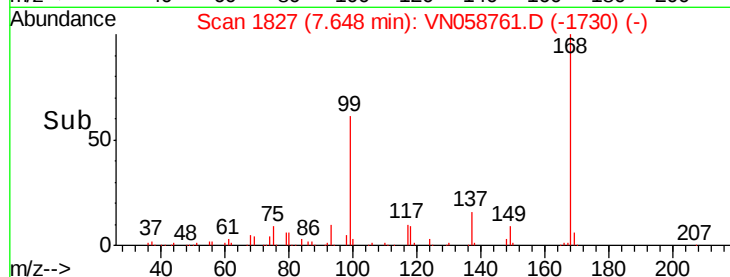
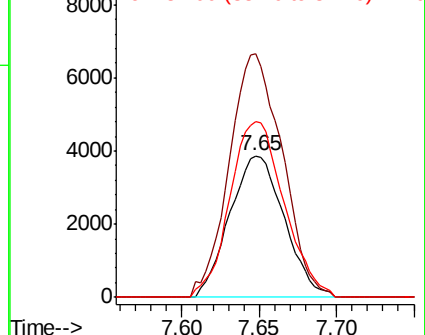
84 123.9 64.9 97.3#



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: 55.072 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058761.D

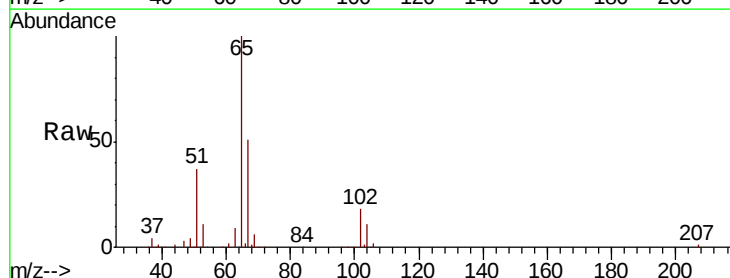
Acq: 14 Oct 2019 19:52

Tgt Ion: 65 Resp: 297909

Ion Ratio Lower Upper

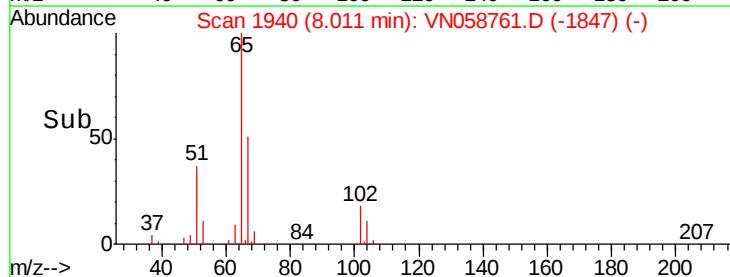
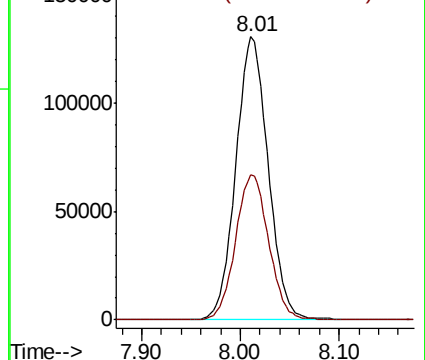
65 100

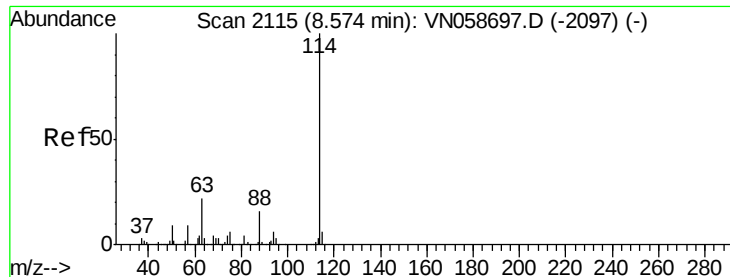
67 52.6 0.0 103.8



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: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

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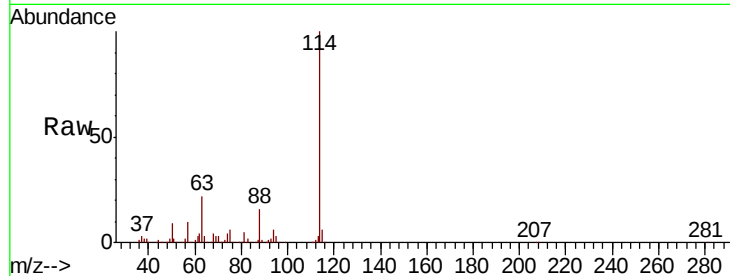
Tot Ion:114 Resp: 647345

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

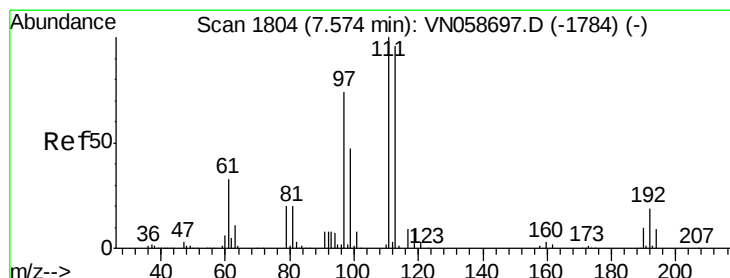
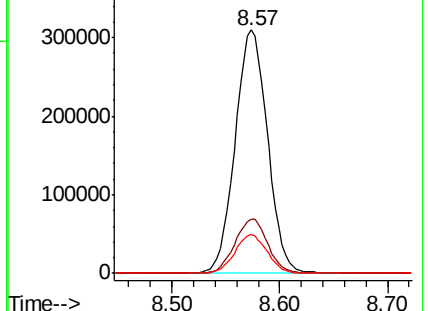
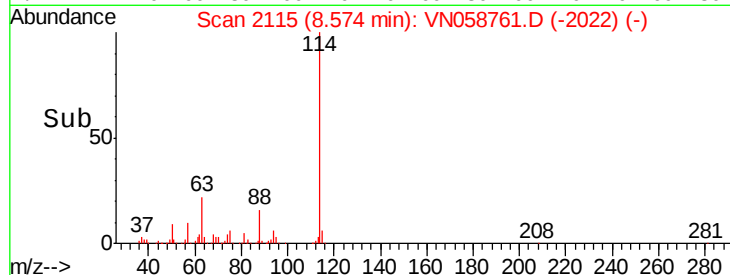
88 16.0 0.0 32.0



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: 52.645 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

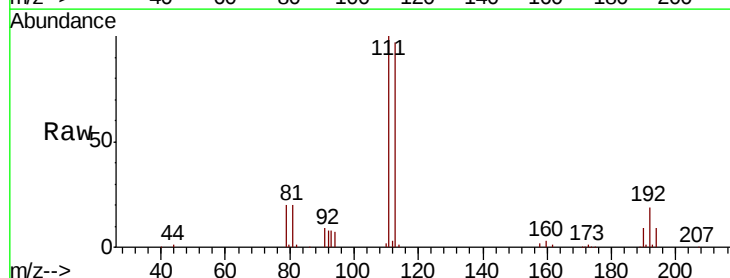
Tgt Ion:113 Resp: 210502

Ion Ratio Lower Upper

113 100

111 103.4 82.3 123.5

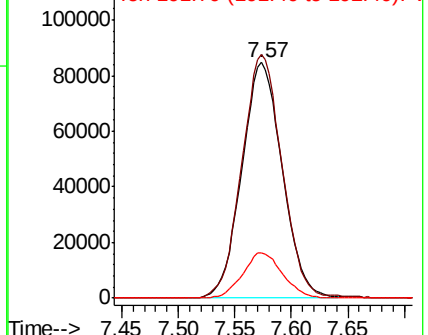
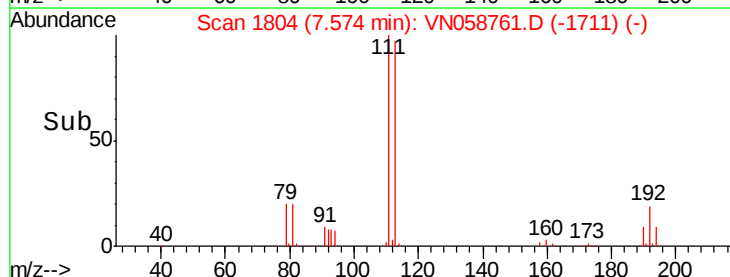
192 19.1 15.0 22.6

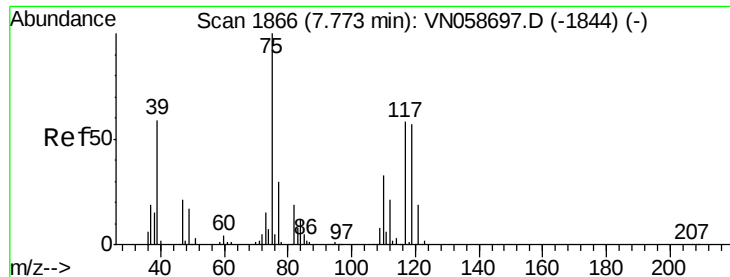


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

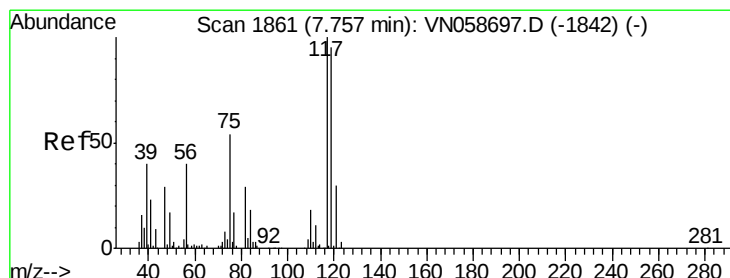
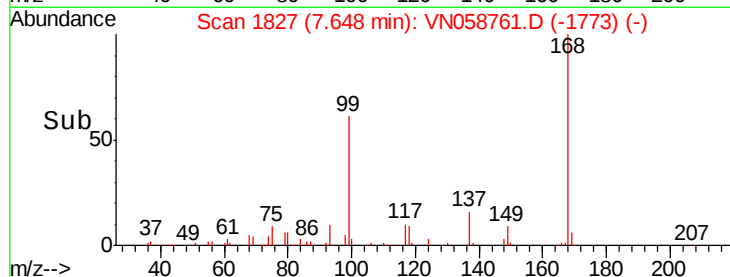
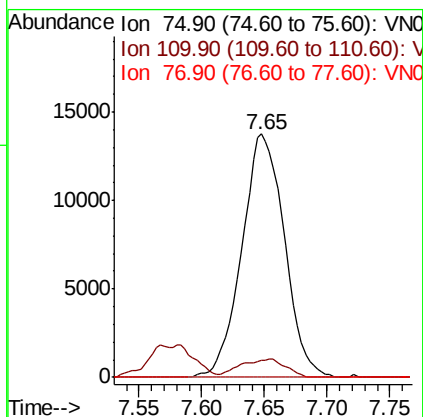
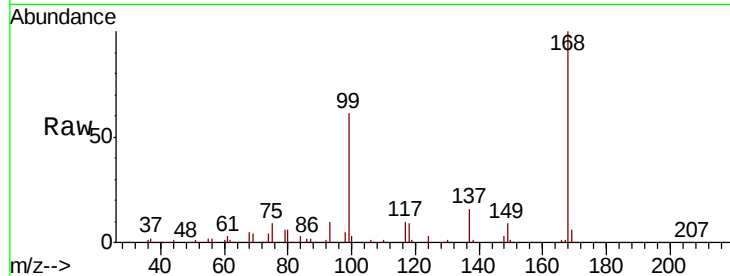




#36
 1,1-Dichloropropene
 Concen: 4.965 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058761.D
 Acq: 14 Oct 2019 19:52

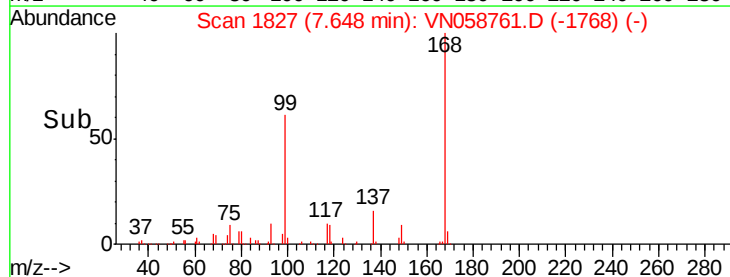
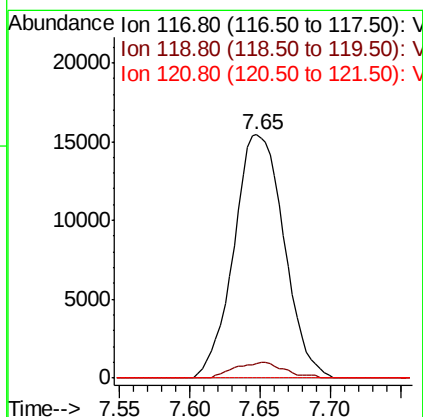
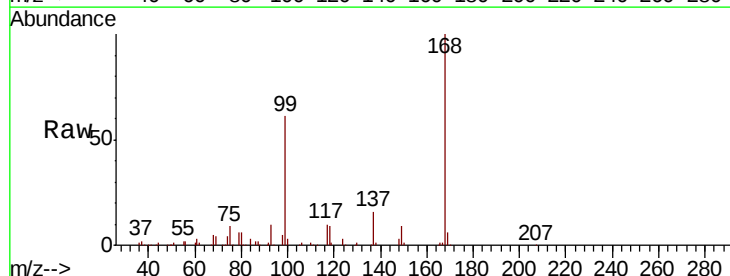
Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-GAC2-191010

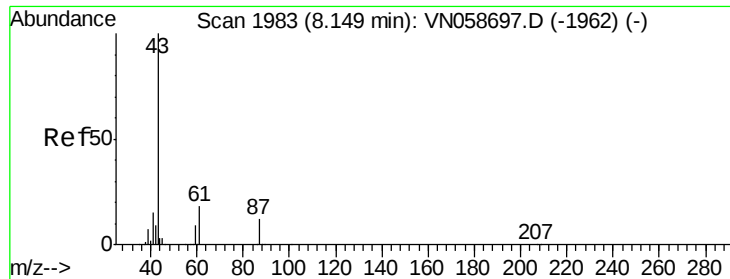
Tot Ion	75	Resp	32498
Ion Ratio	Lower	Upper	
75	100		
110	8.0	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.020 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058761.D
 Acq: 14 Oct 2019 19:52

Tgt Ion	117	Resp	38398
Ion Ratio	Lower	Upper	
117	100		
119	5.8	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 1.598 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

IDW-GAC2-191010

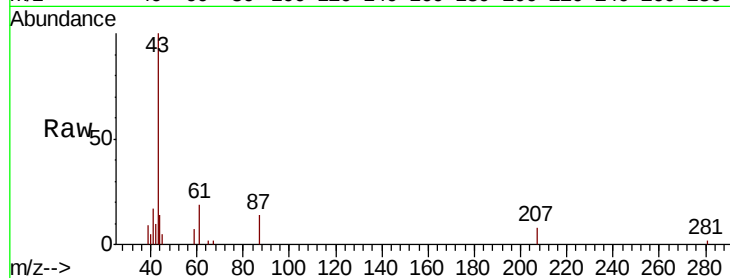
Tot Ion: 43 Resp: 18021

Ion Ratio Lower Upper

43 100

61 19.0 20.3 30.5#

87 12.4 9.8 14.6

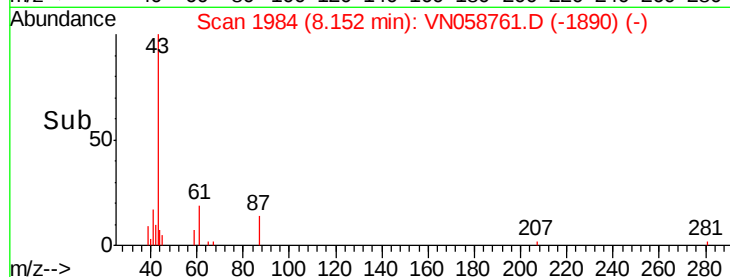


Abundance Ion 43.00 (42.70 to 43.70): VN058761.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058761.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058761.D (-1962) (-)

Time-->



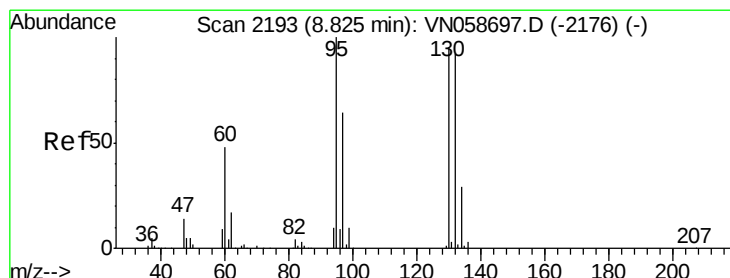
Abundance

Ion 43.00 (42.70 to 43.70): VN058761.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058761.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058761.D (-1890) (-)

Time-->



#44

Trichloroethene

Concen: 0.876 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN058761.D

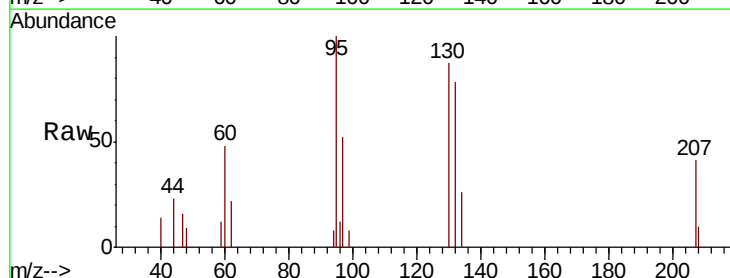
Acq: 14 Oct 2019 19:52

Tgt Ion:130 Resp: 4088

Ion Ratio Lower Upper

130 100

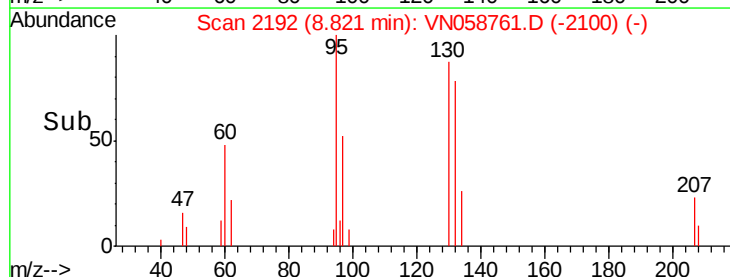
95 114.6 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): VN058761.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058761.D (-2176) (-)

Time-->

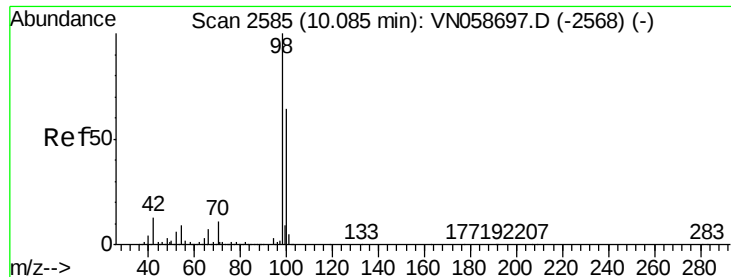


Abundance

Ion 129.80 (129.50 to 130.50): VN058761.D (-2100) (-)

Ion 94.90 (94.60 to 95.60): VN058761.D (-2100) (-)

Time-->



#50

Toluene-d8

Concen: 48.918 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

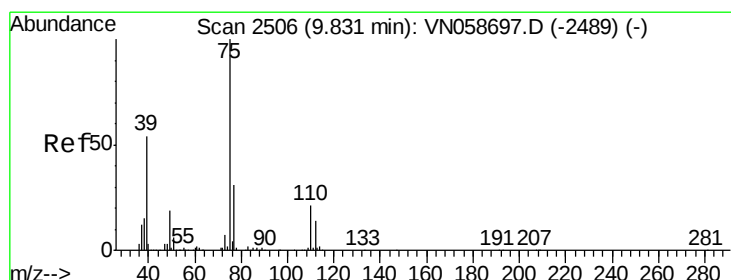
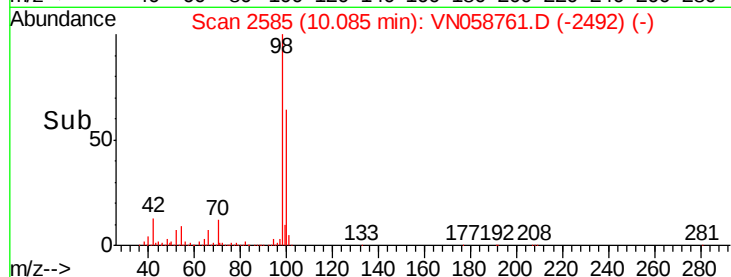
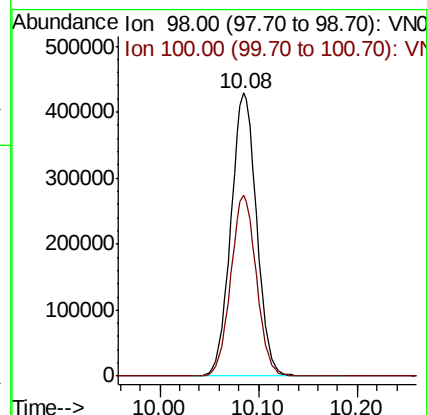
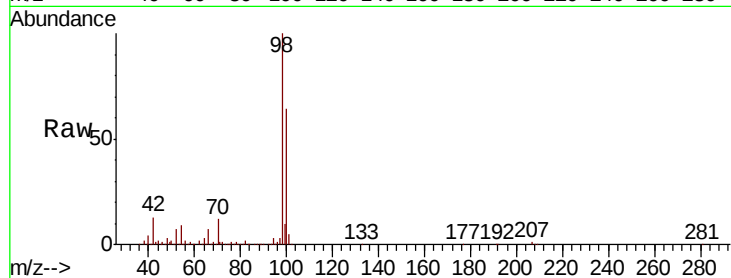
IDW-GAC2-191010

Tot Ion: 98 Resp: 782169

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7



#54

cis-1,3-Dichloropropene

Concen: 0.318 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

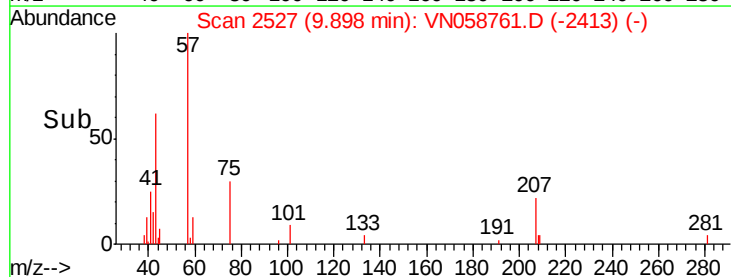
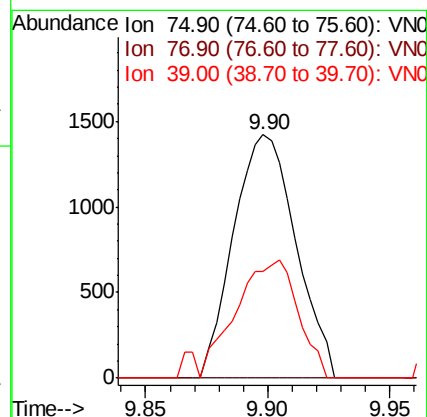
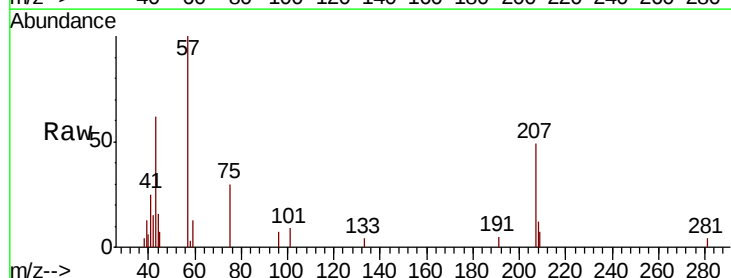
Tgt Ion: 75 Resp: 2518

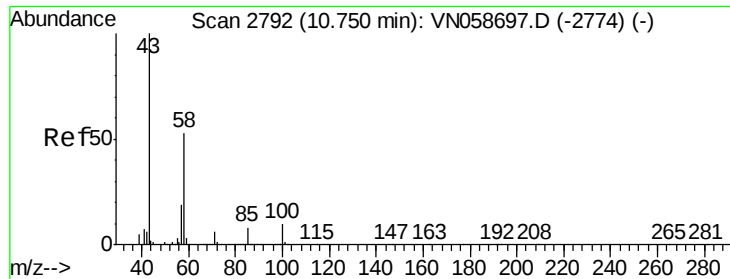
Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

39 44.0 43.1 64.7

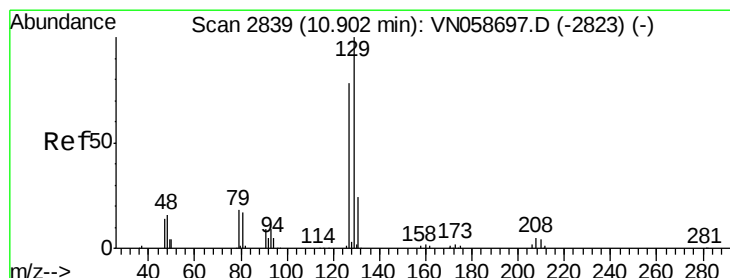
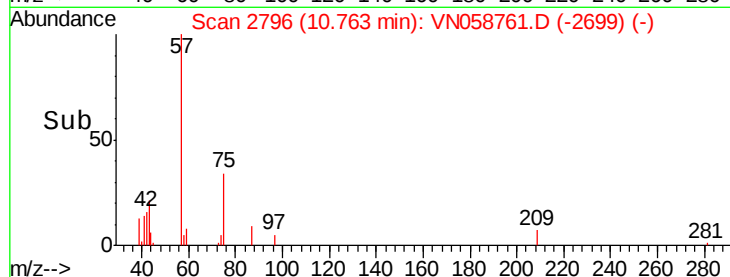
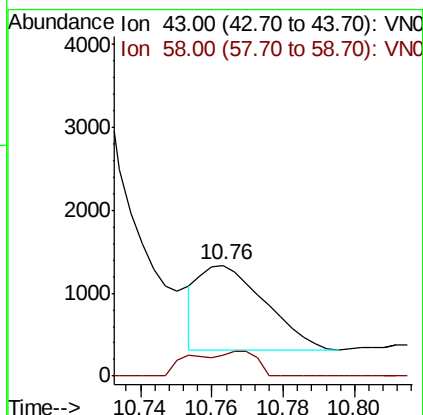
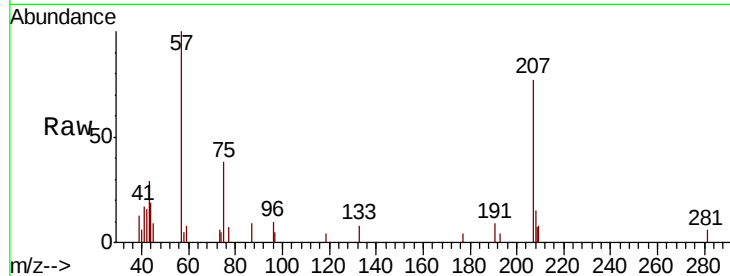




#59
2-Hexanone
Concen: 0.269 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058761.D
Acq: 14 Oct 2019 19:52

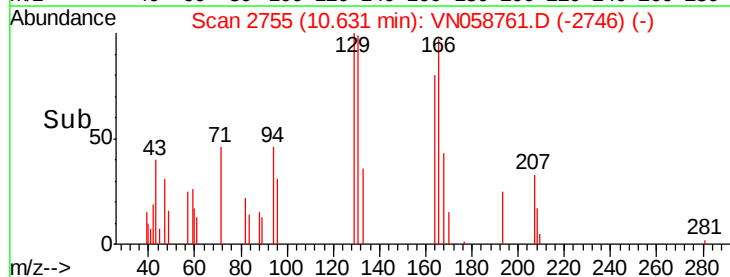
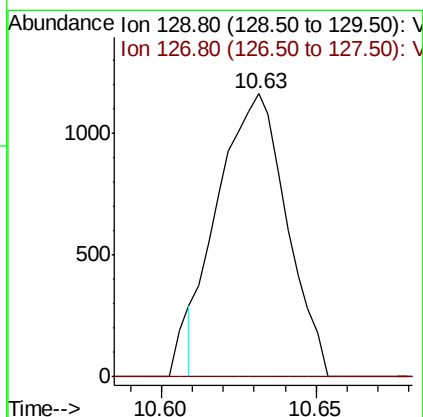
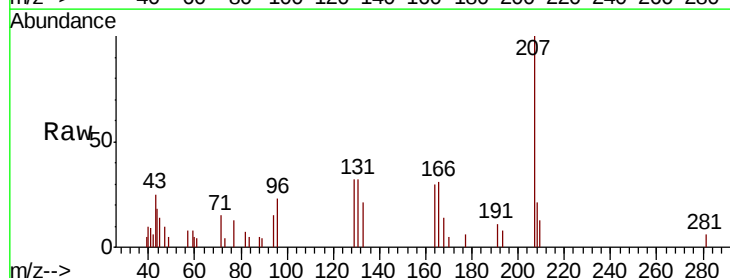
Instrument :
MSVOA_N
ClientSampleId :
IDW-GAC2-191010

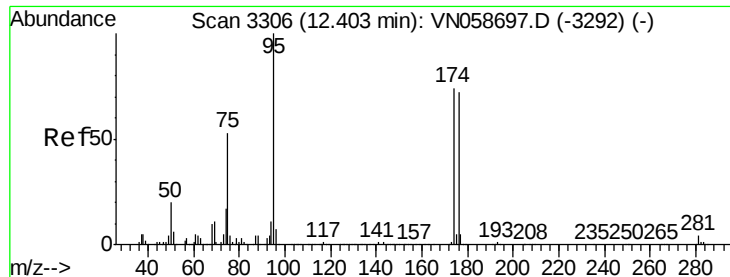
Tot Ion: 43 Resp: 1318
Ion Ratio Lower Upper
43 100
58 29.1 26.1 78.3



#60
Dibromochloromethane
Concen: 0.369 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN058761.D
Acq: 14 Oct 2019 19:52

Tgt Ion: 129 Resp: 1792
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 42.989 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

IDW-GAC2-191010

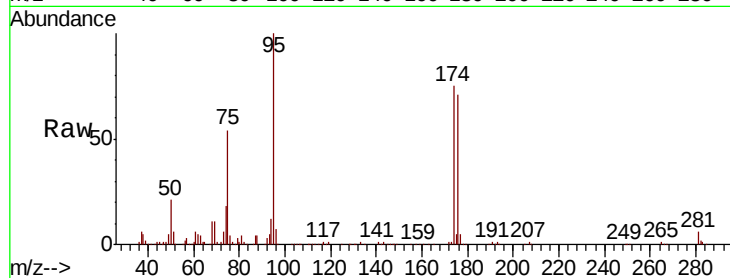
Tot Ion: 95 Resp: 260191

Ion Ratio Lower Upper

95 100

174 76.4 0.0 150.4

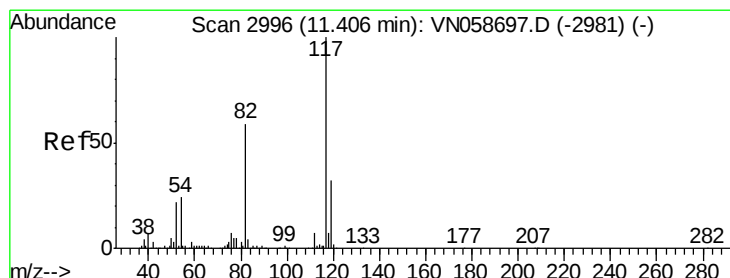
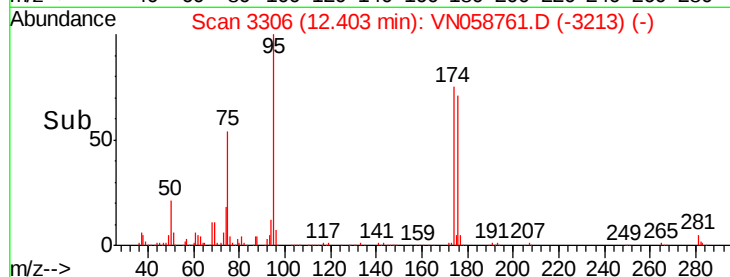
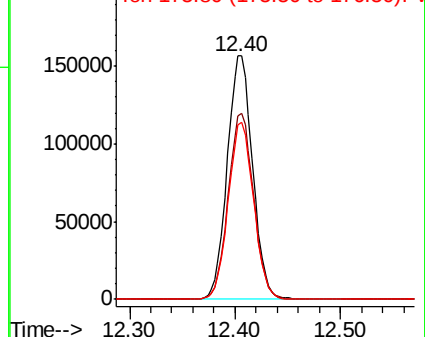
176 72.9 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058761.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058761.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058761.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

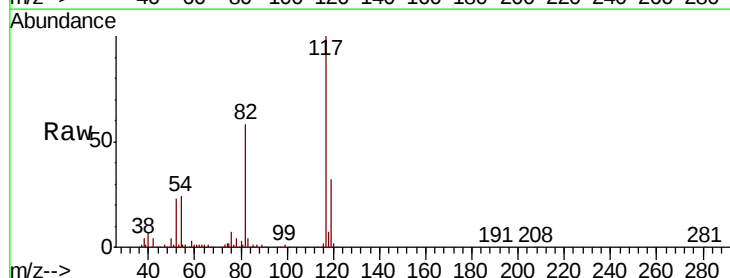
Tgt Ion: 117 Resp: 588058

Ion Ratio Lower Upper

117 100

82 58.3 47.0 70.4

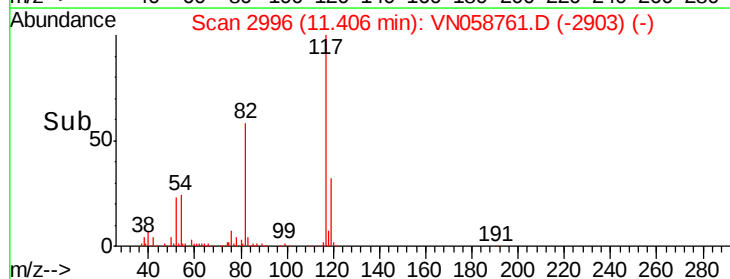
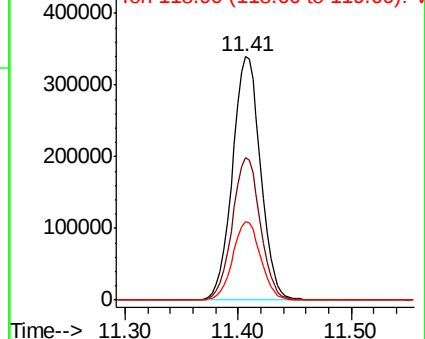
119 32.2 25.4 38.2

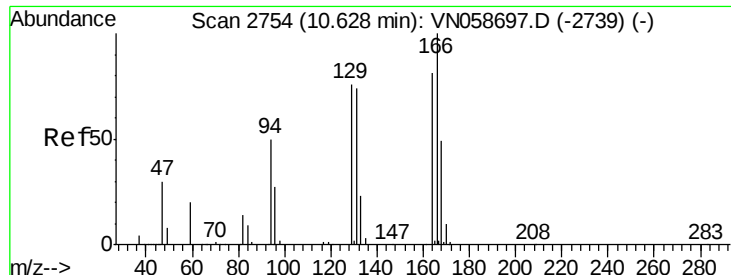


Abundance Ion 116.90 (116.60 to 117.60): VN058761.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058761.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058761.D (-2981) (-)





#64

Tetrachloroethene

Concen: 0.437 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

IDW-GAC2-191010

Tot Ion:164 Resp: 1797

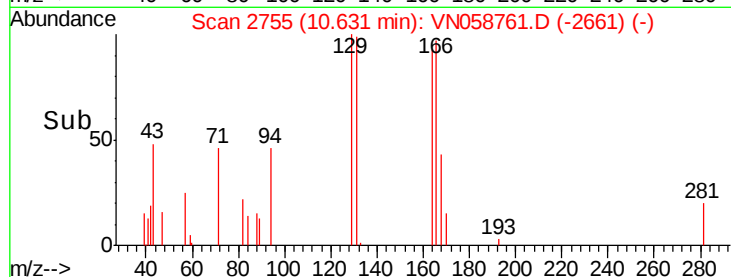
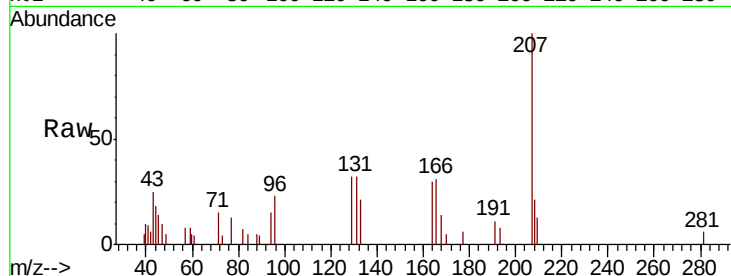
Ion Ratio Lower Upper

164 100

166 103.7 99.3 148.9

129 107.0 75.2 112.8

131 105.9 73.0 109.4

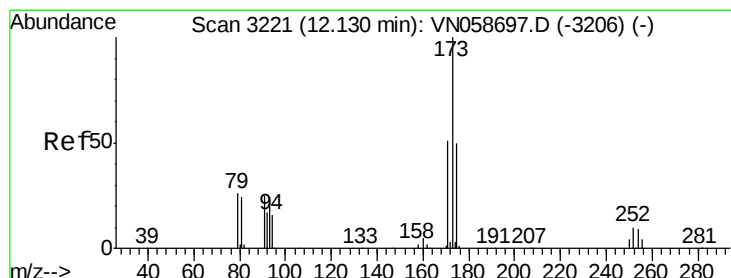
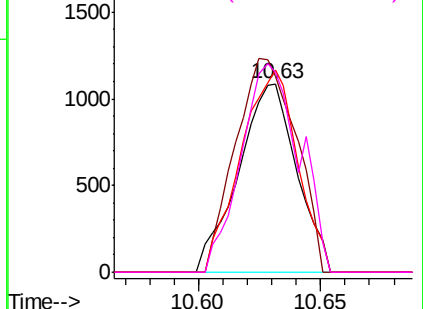


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.517 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

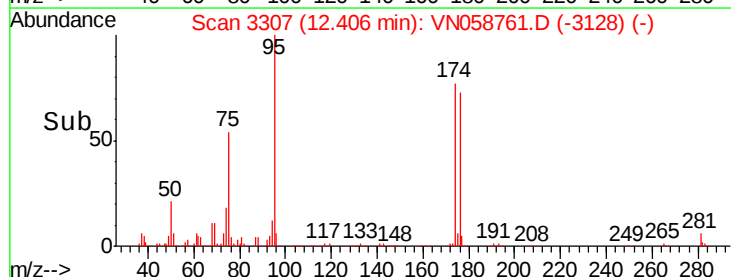
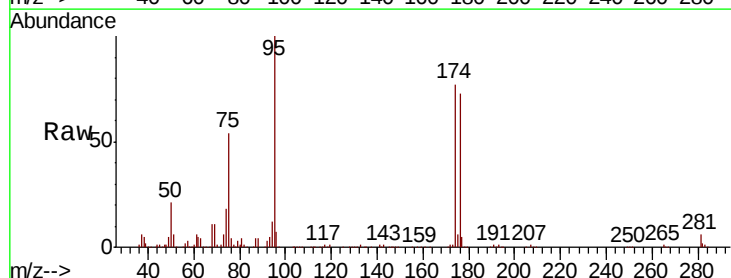
Tgt Ion:173 Resp: 1674

Ion Ratio Lower Upper

173 100

175 766.1 24.6 73.8#

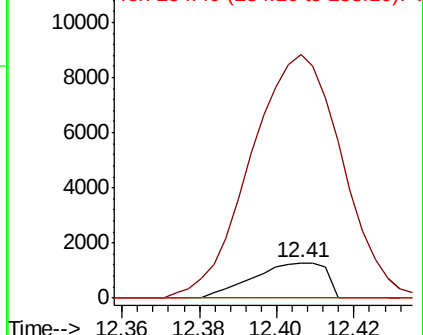
254 0.0 0.1 0.1#

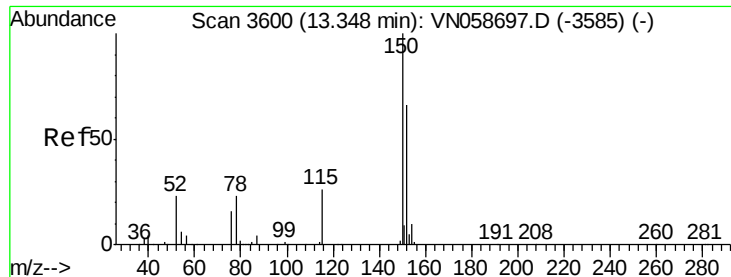


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3600

Delta R.T. -0.00 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

IDW-GAC2-191010

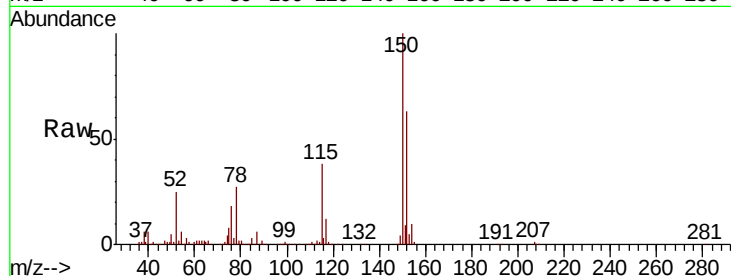
Tot Ion:152 Resp: 241809

Ion Ratio Lower Upper

152 100

115 61.2 30.4 91.2

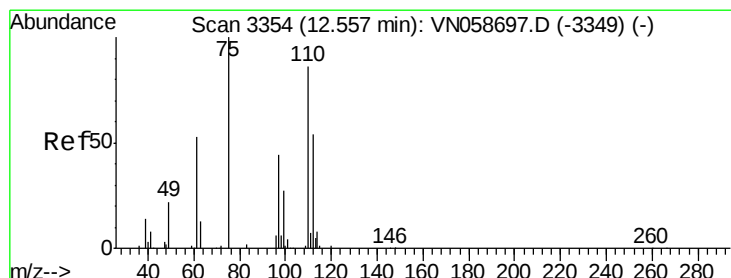
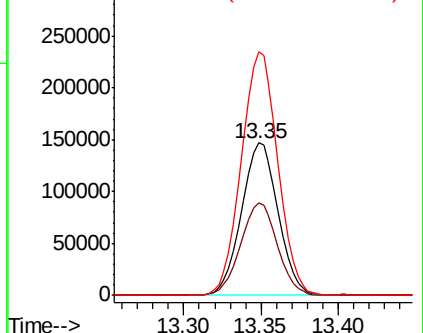
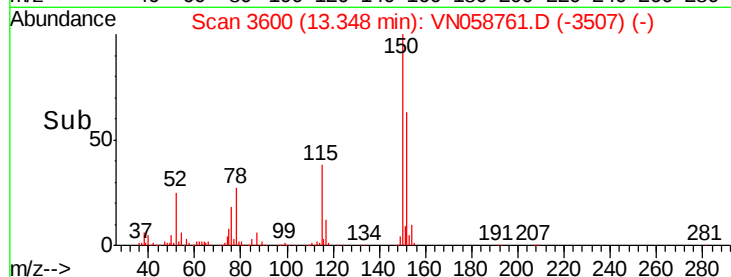
150 159.4 0.0 345.4



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: 26.030 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058761.D

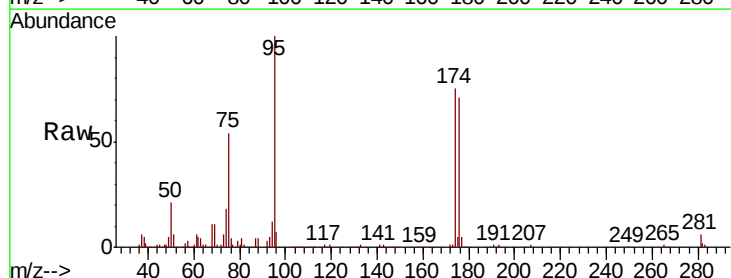
Acq: 14 Oct 2019 19:52

Tgt Ion: 75 Resp: 138080

Ion Ratio Lower Upper

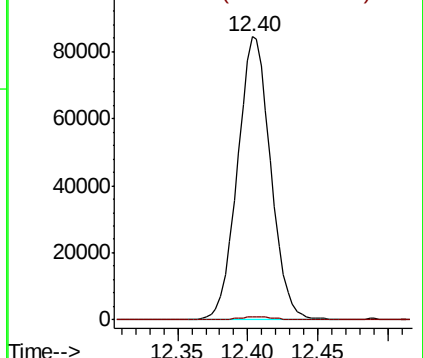
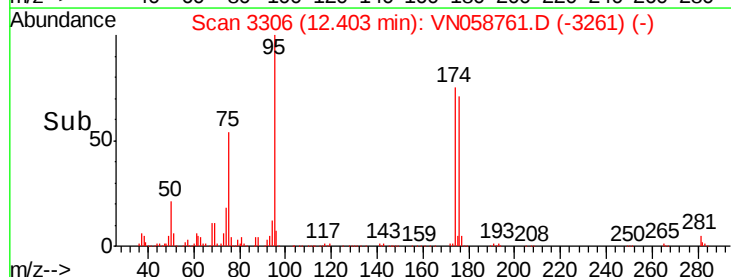
75 100

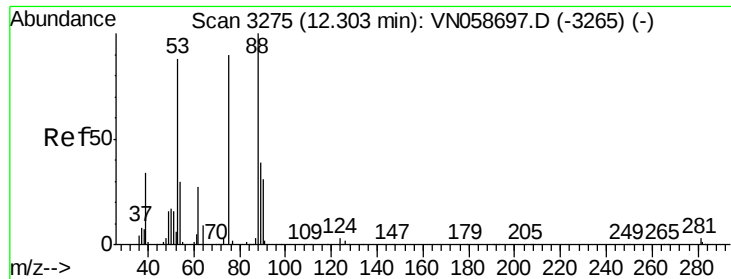
77 1.2 0.0 0.0#



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: 69.725 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058761.D

Acq: 14 Oct 2019 19:52

Instrument :

MSVOA_N

ClientSampleId :

IDW-GAC2-191010

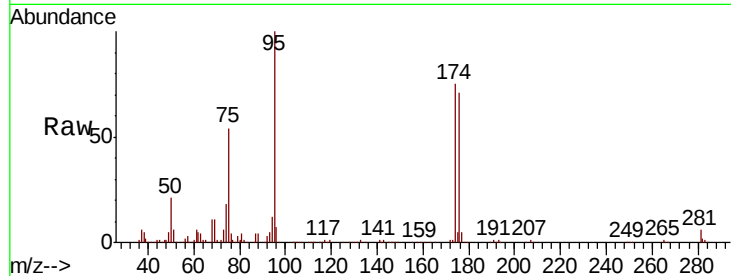
Tot Ion: 75 Resp: 138080

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

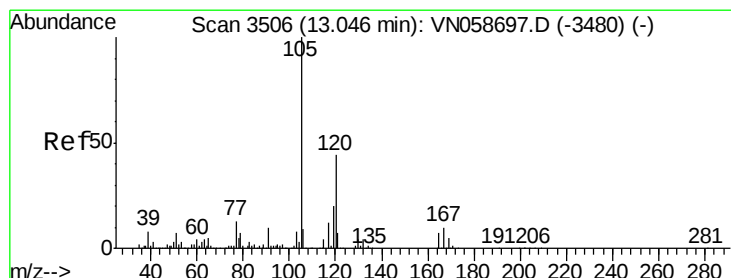
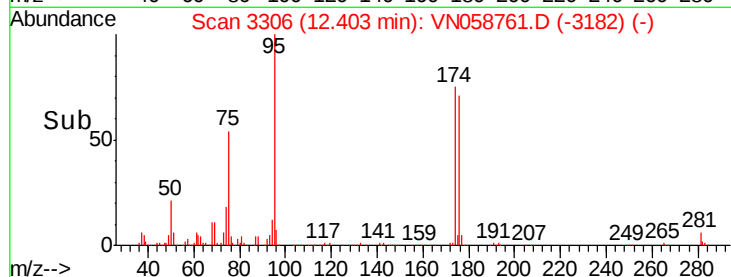
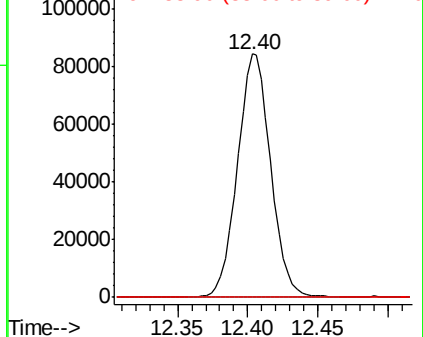
89 0.0 34.9 52.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.230 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058761.D

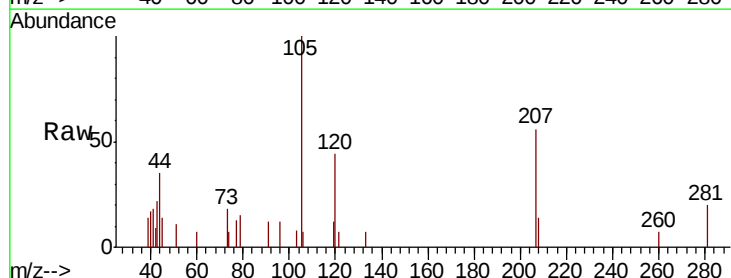
Acq: 14 Oct 2019 19:52

Tgt Ion: 105 Resp: 3412

Ion Ratio Lower Upper

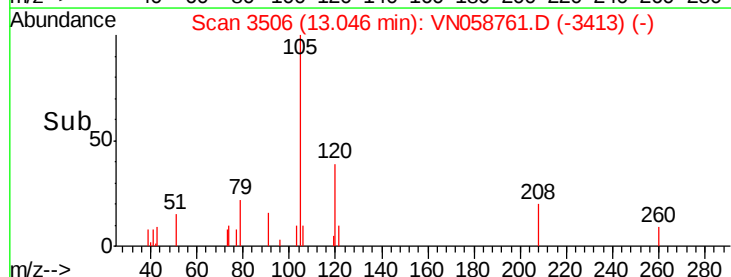
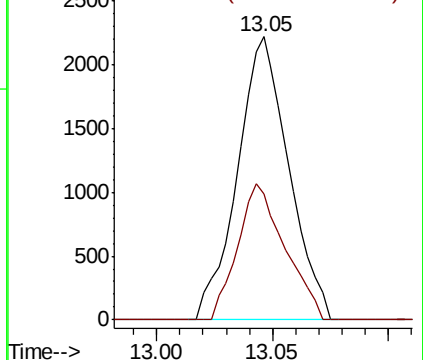
105 100

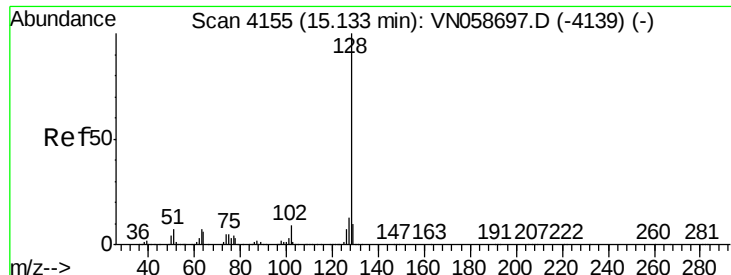
120 44.3 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

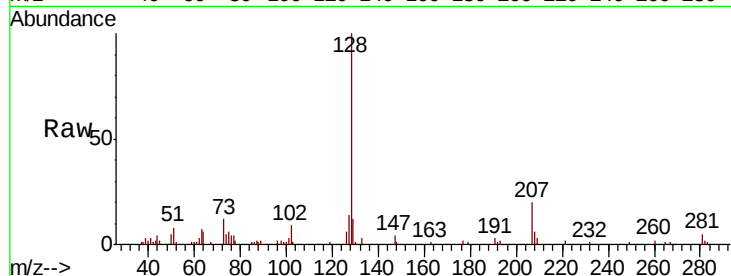




#95
Naphthalene
Concen: 3.500 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN058761.D
Acq: 14 Oct 2019 19:52

Instrument :
MSVOA_N
ClientSampleId :
IDW-GAC2-191010

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.2	15.4
129	11.6	8.5	12.7



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

