

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101619\
 Data File : VN058800.D
 Acq On : 16 Oct 2019 14:43
 Operator : JC/SP
 Sample : K5398-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-191015

Quant Time: Oct 17 01:33:18 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	383001	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	608460	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	517974	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	194647	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	283057	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
35) Dibromofluoromethane	7.57	113	203126	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	
50) Toluene-d8	10.09	98	770545	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	12.40	95	243175	42.75	ug/l	0.00
Spiked Amount			Recovery	=	85.50%	

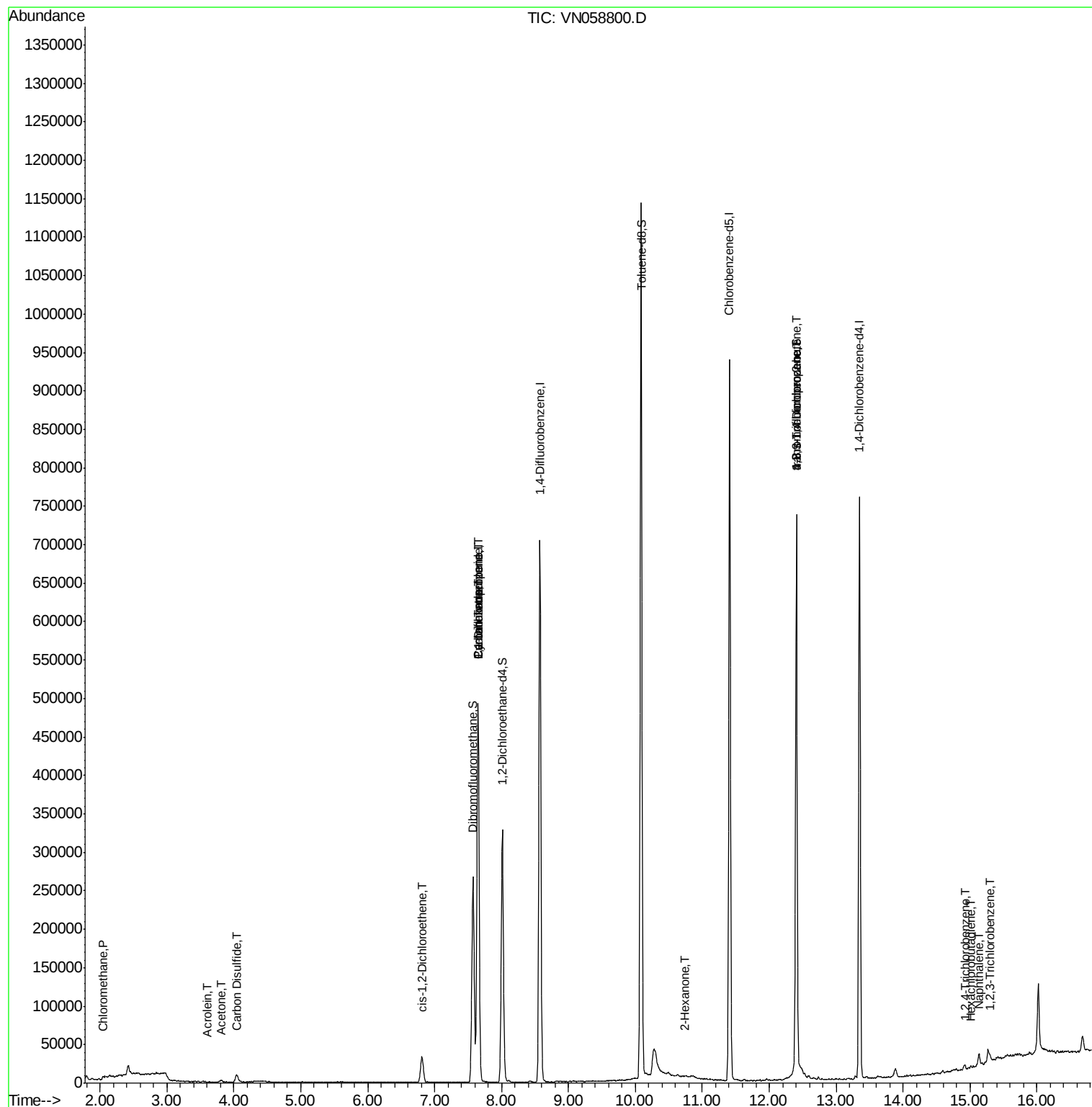
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2699	0.476	ug/l	96
13) Acrolein	3.60	56	169	0.242	ug/l #	39
16) Acetone	3.81	43	4672	2.105	ug/l	98
17) Carbon Disulfide	4.03	76	2879	0.245	ug/l #	75
27) cis-1,2-Dichloroethene	6.81	96	20848	4.345	ug/l	87
31) Cyclohexane	7.65	56	9073	1.154	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	32159	5.227	ug/l #	51
38) Carbon Tetrachloride	7.65	117	37850	6.313	ug/l #	16
59) 2-Hexanone	10.75	43	1415	0.308	ug/l	76
76) 1,2,3-Trichloropropane	12.40	75	132056	30.926	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	132056	82.841	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.92	180	2115	0.563	ug/l	83
94) Hexachlorobutadiene	15.01	225	459	0.232	ug/l #	68
95) Naphthalene	15.13	128	8376	0.775	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	2392	0.652	ug/l	98

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

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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: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

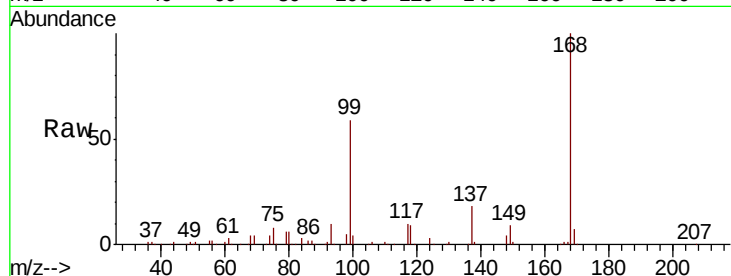
OUTFALL001-191015

Tot Ion:168 Resp: 383001

Ion Ratio Lower Upper

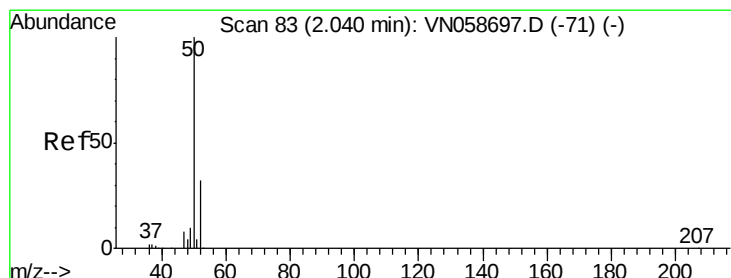
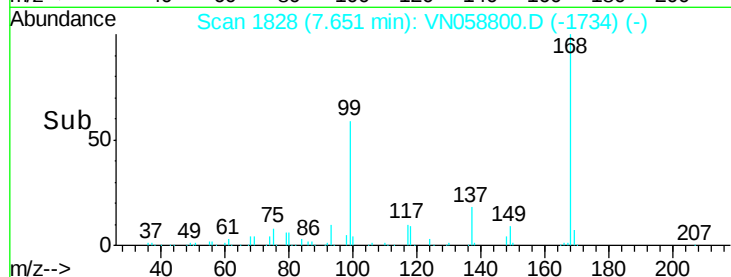
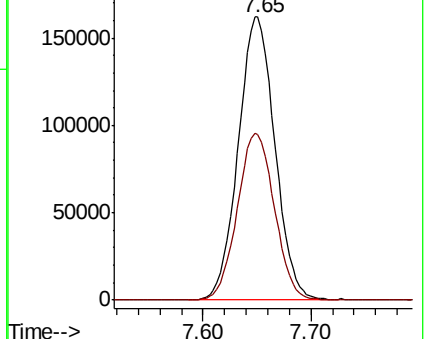
168 100

99 58.7 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.476 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058800.D

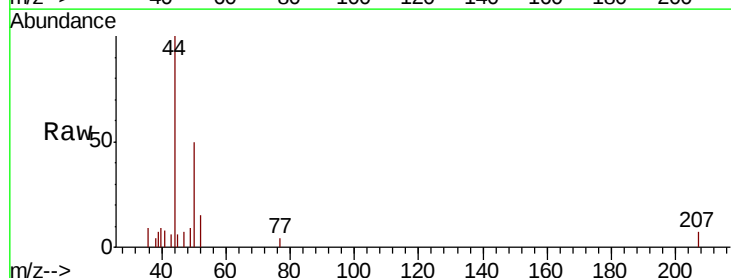
Acq: 16 Oct 2019 14:43

Tgt Ion: 50 Resp: 2699

Ion Ratio Lower Upper

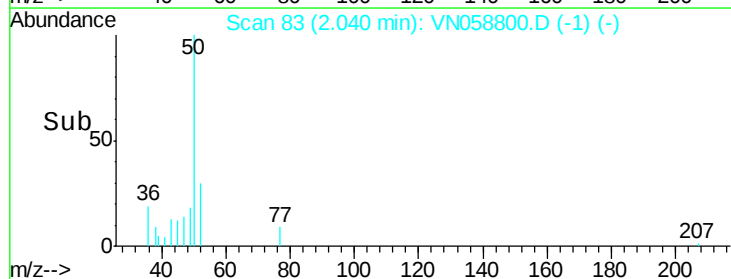
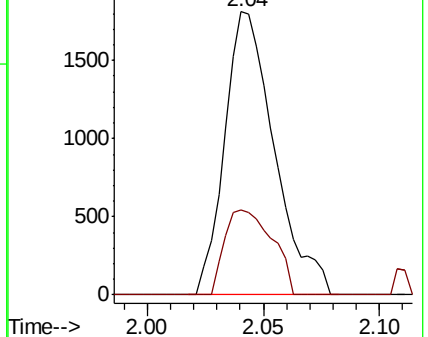
50 100

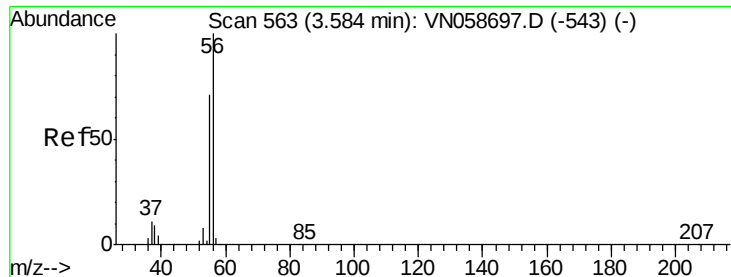
52 29.8 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#13

Acrolein

Concen: 0.242 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.02 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

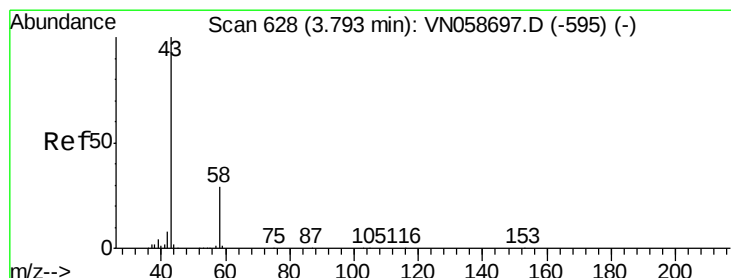
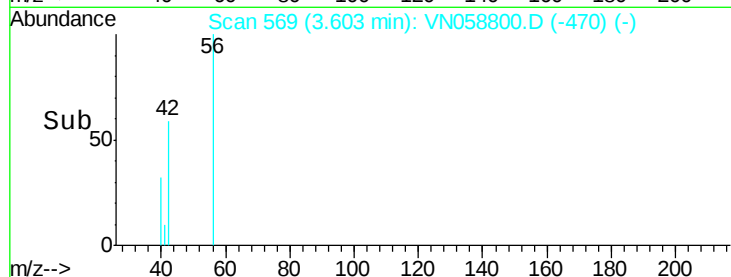
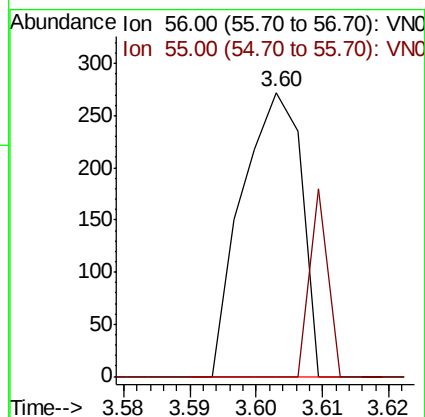
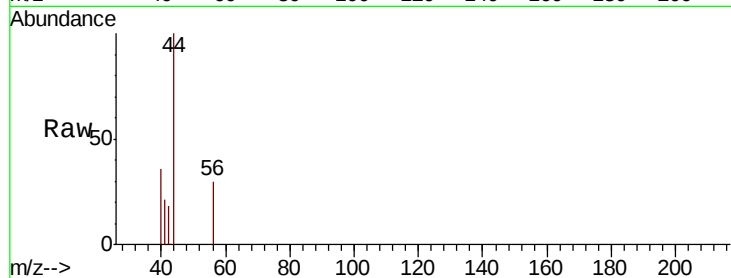
OUTFALL001-191015

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

56 100

55 20.7 56.7 85.1#



#16

Acetone

Concen: 2.105 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN058800.D

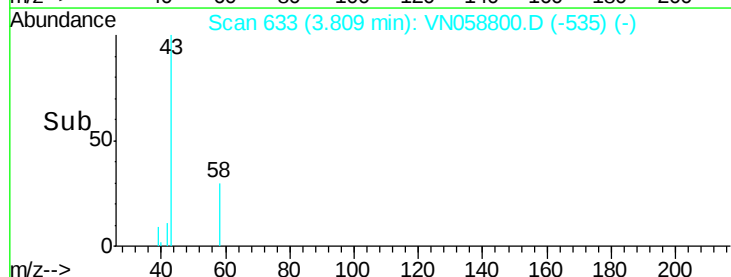
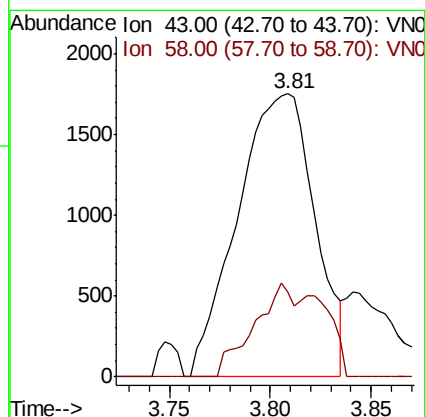
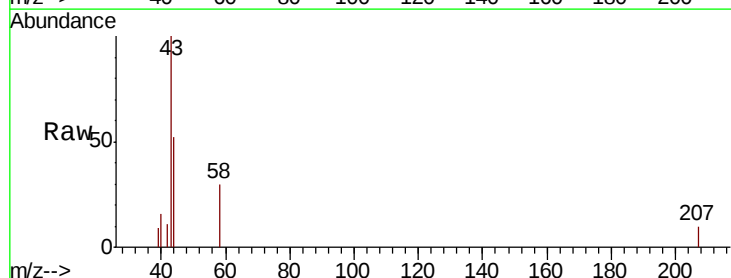
Acq: 16 Oct 2019 14:43

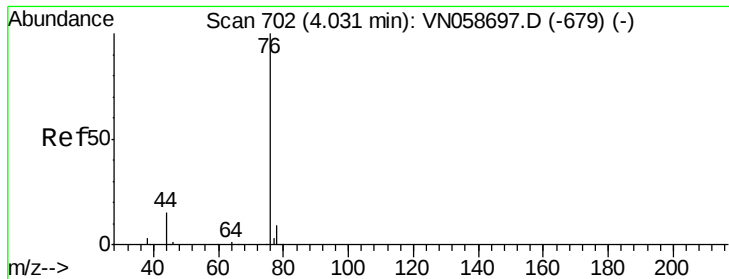
Tgt Ion: 43 Resp: 4672

Ion Ratio Lower Upper

43 100

58 30.2 23.3 34.9





#17

Carbon Disulfide

Concen: 0.245 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

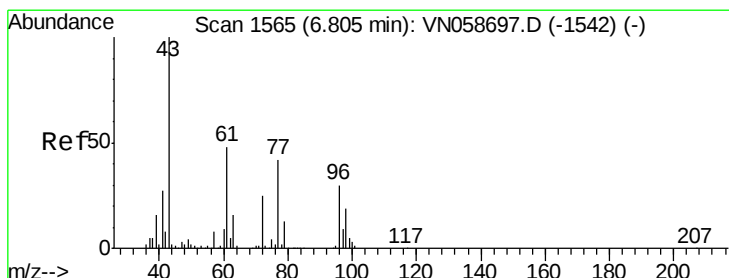
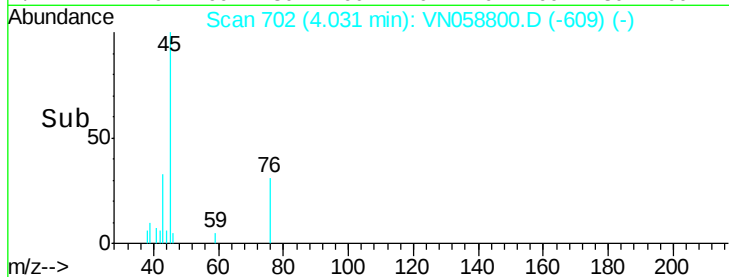
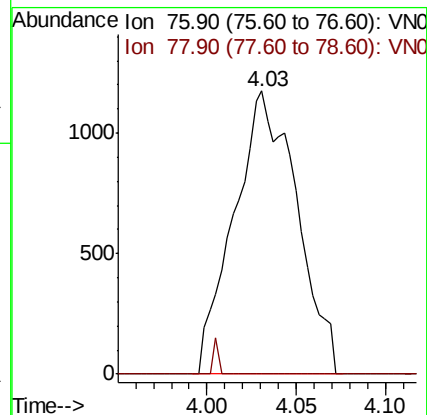
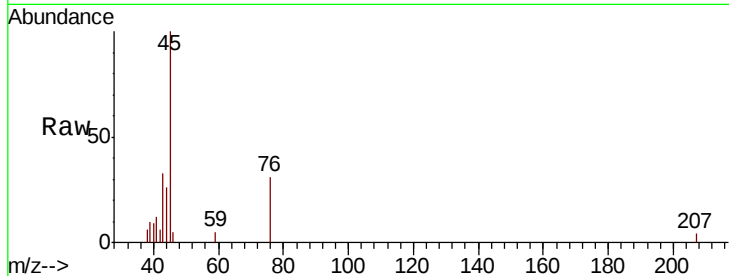
OUTFALL001-191015

Tot Ion: 76 Resp: 2879

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#27

cis-1,2-Dichloroethene

Concen: 4.345 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

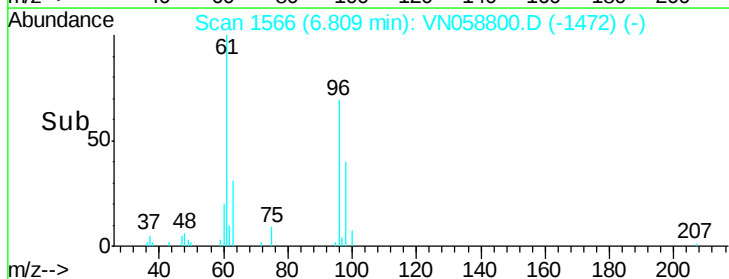
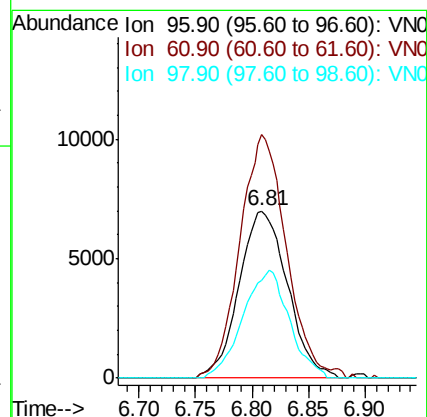
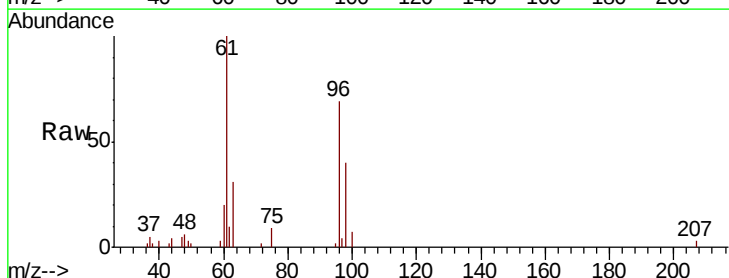
Tgt Ion: 96 Resp: 20848

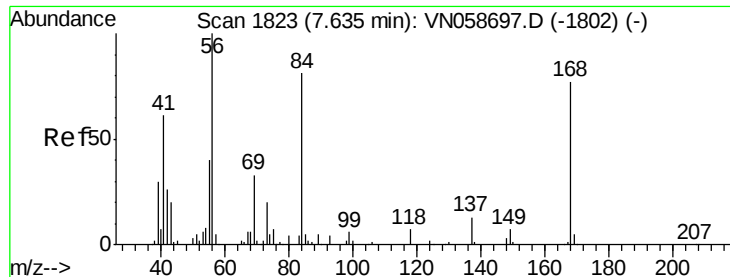
Ion Ratio Lower Upper

96 100

61 139.5 0.0 324.8

98 61.6 0.0 129.2

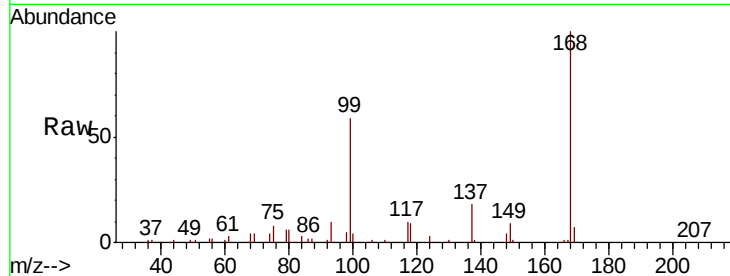




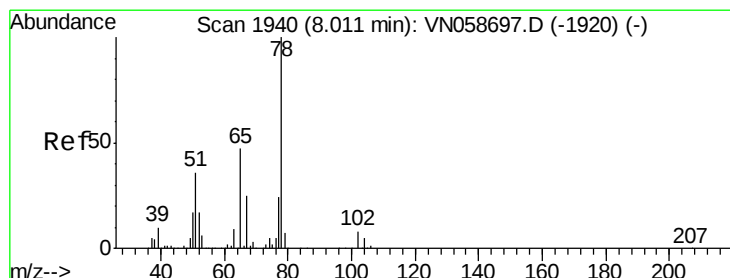
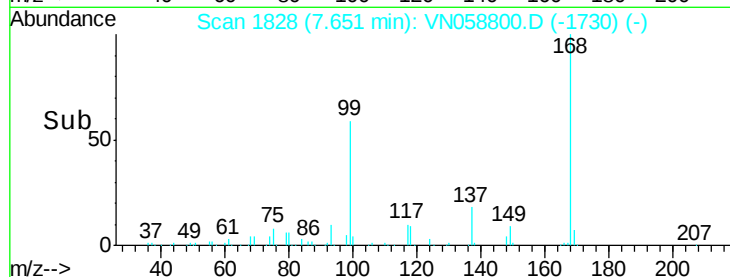
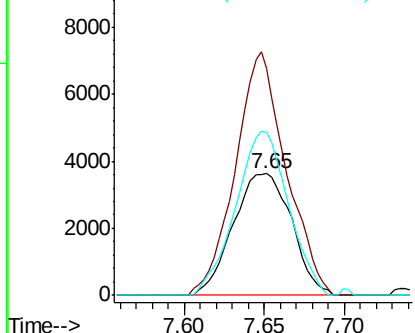
#31
Cyclohexane
Concen: 1.154 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.02 min
Lab File: VN058800.D
Acq: 16 Oct 2019 14:43

Instrument :
MSVOA_N
ClientSampleId :
OUTFALL001-191015

Tot Ion: 56 Resp: 9073
Ion Ratio Lower Upper
56 100
69 185.9 26.2 39.4#
84 134.0 64.9 97.3#

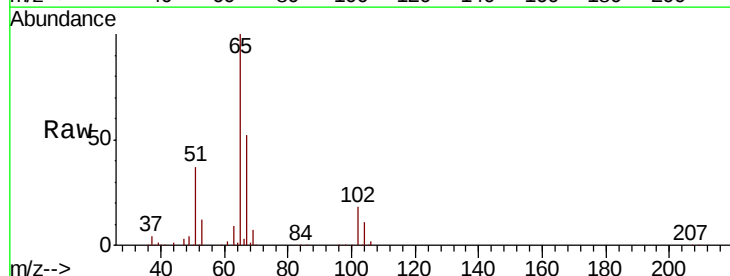


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

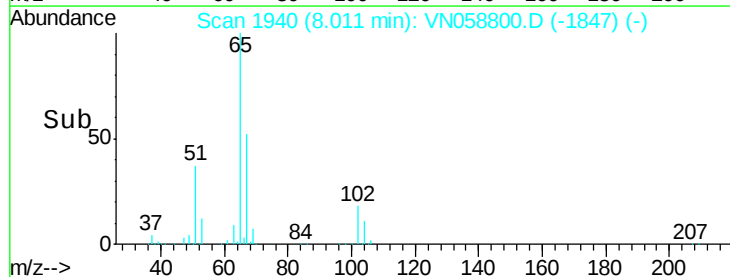
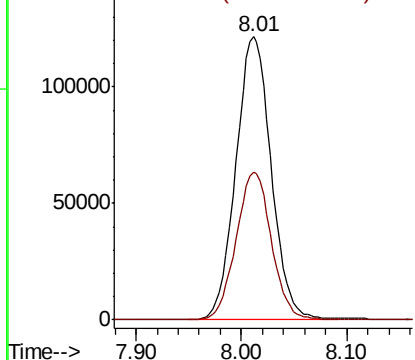


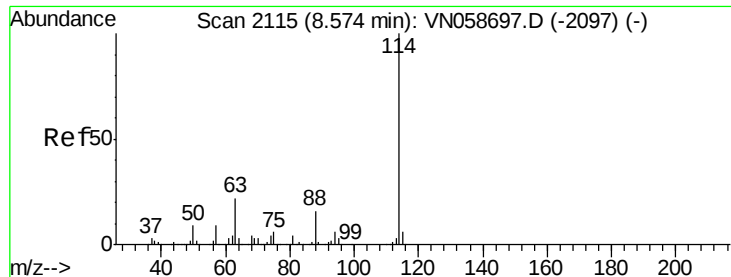
#33
1,2-Dichloroethane-d4
Concen: 52.790 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058800.D
Acq: 16 Oct 2019 14:43

Tgt Ion: 65 Resp: 283057
Ion Ratio Lower Upper
65 100
67 52.3 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: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-191015

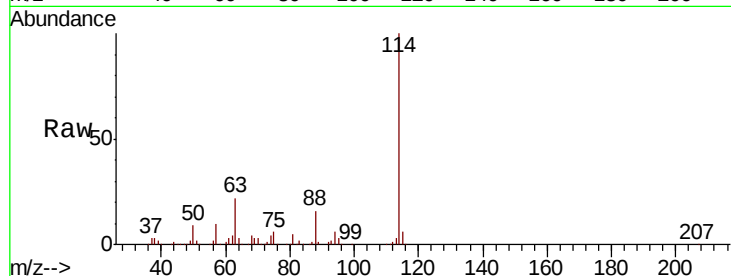
Tot Ion:114 Resp: 608460

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

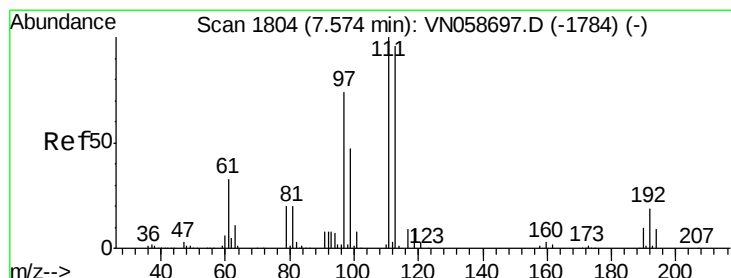
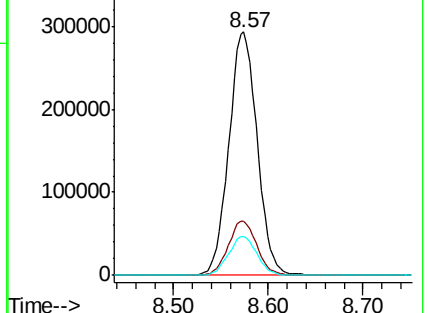
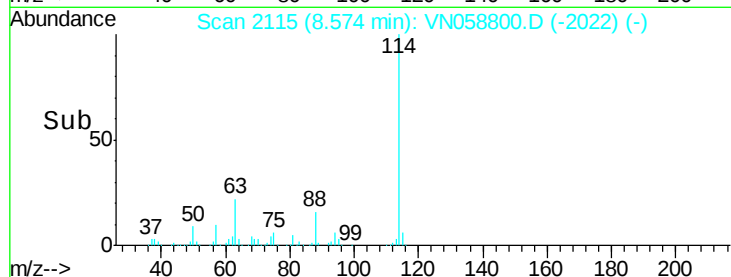
88 16.0 0.0 32.0



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: 54.047 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

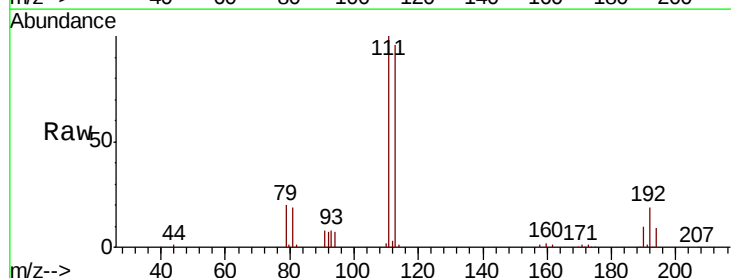
Tgt Ion:113 Resp: 203126

Ion Ratio Lower Upper

113 100

111 102.4 82.3 123.5

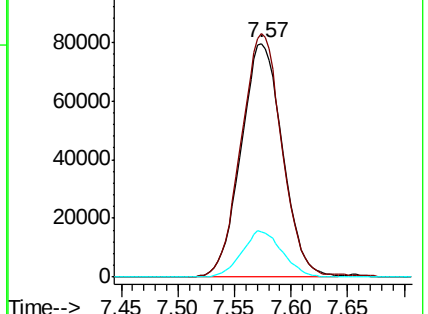
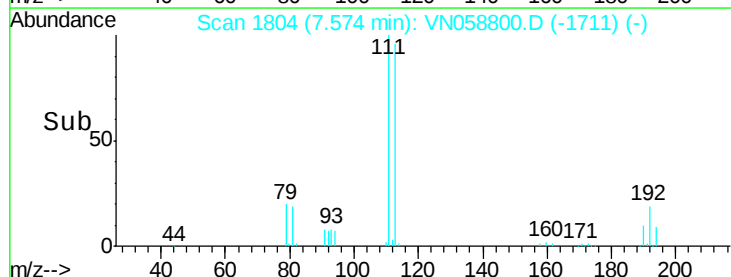
192 19.2 15.0 22.6

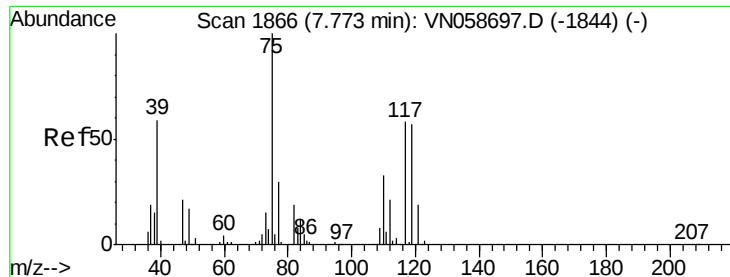


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

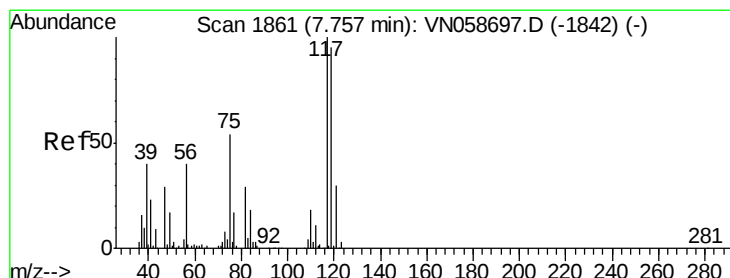
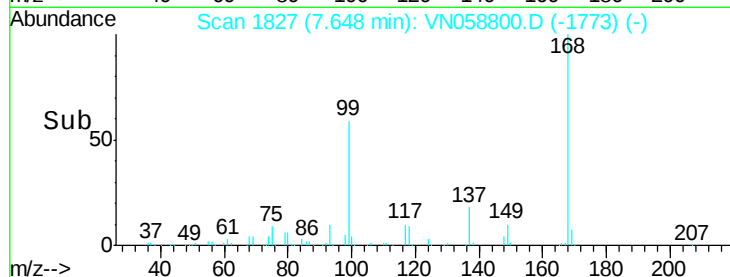
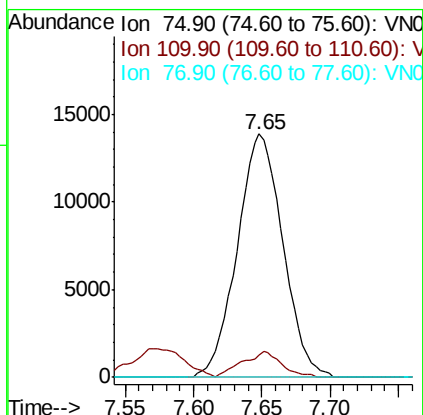
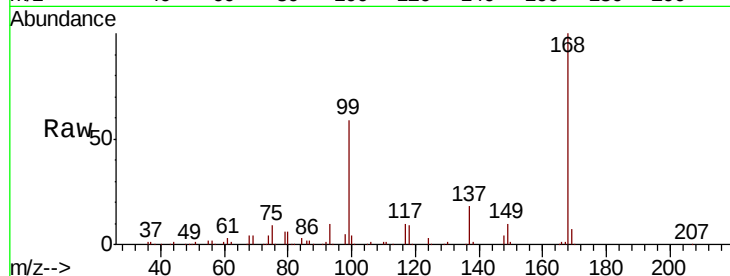




#36
 1,1-Dichloropropene
 Concen: 5.227 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058800.D
 Acq: 16 Oct 2019 14:43

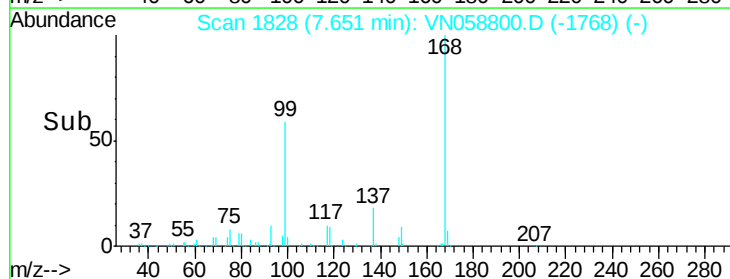
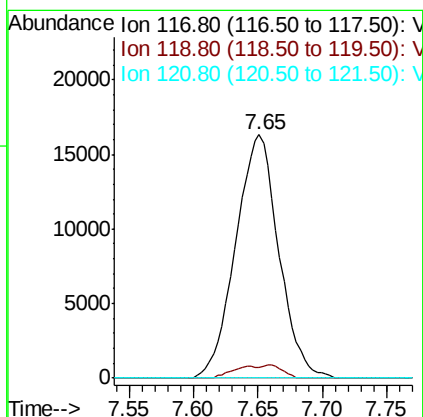
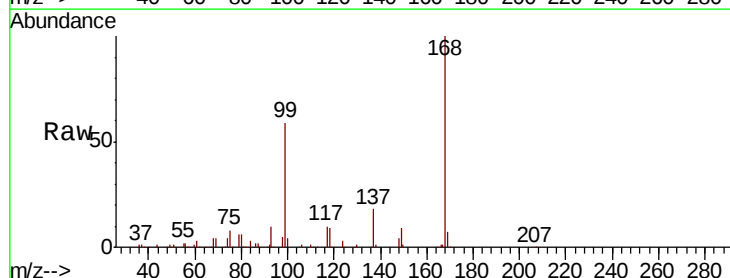
Instrument :
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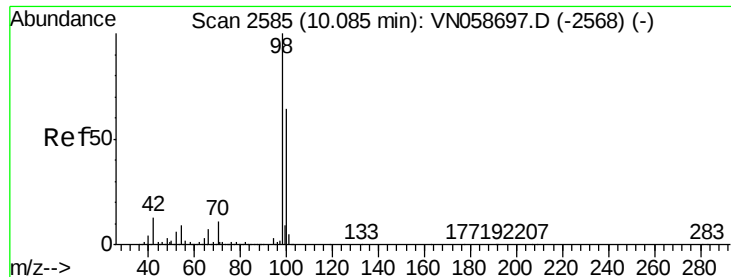
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.313 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058800.D
 Acq: 16 Oct 2019 14:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.2	75.7	113.5#
121	0.0	23.9	35.9#





#50

Toluene-d8

Concen: 51.270 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

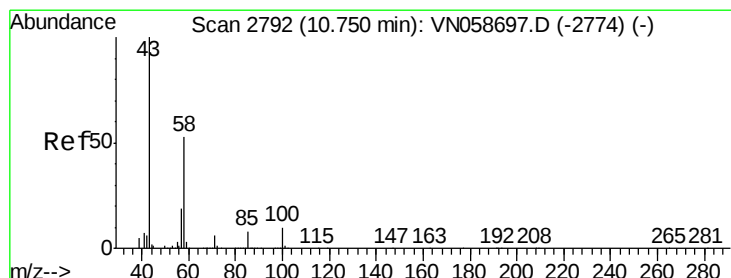
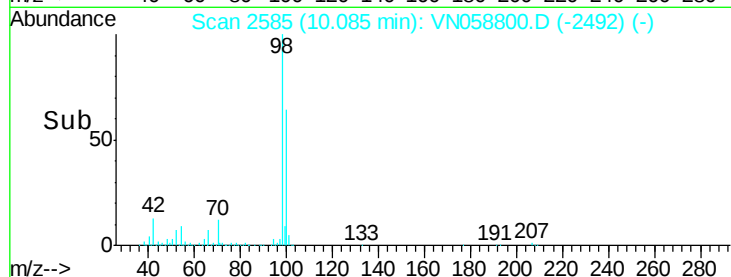
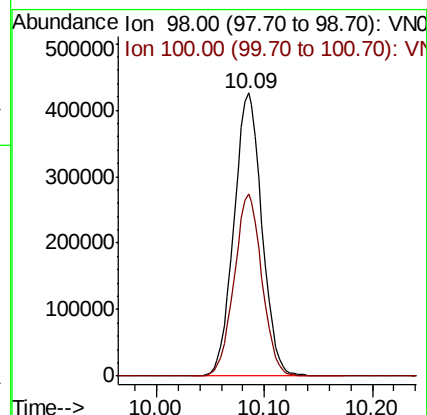
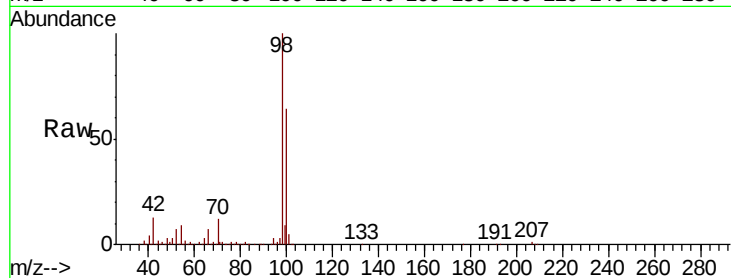
OUTFALL001-191015

Tot Ion: 98 Resp: 770545

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



#59

2-Hexanone

Concen: 0.308 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. -0.00 min

Lab File: VN058800.D

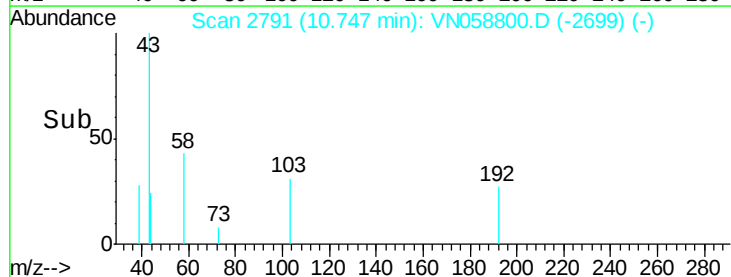
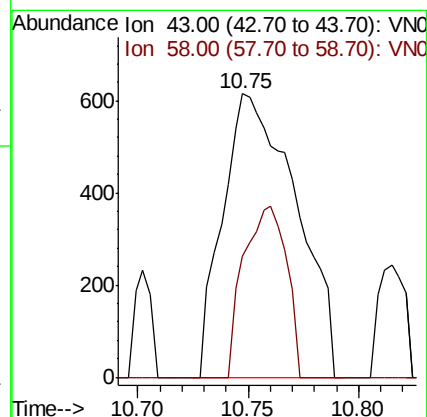
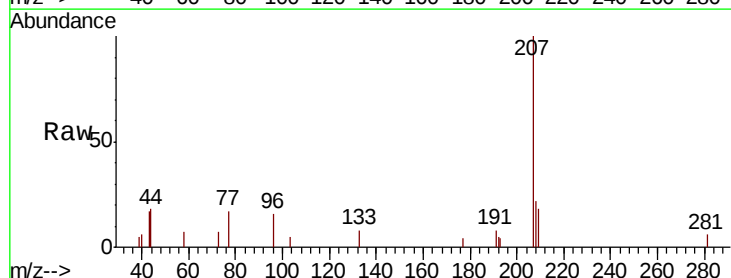
Acq: 16 Oct 2019 14:43

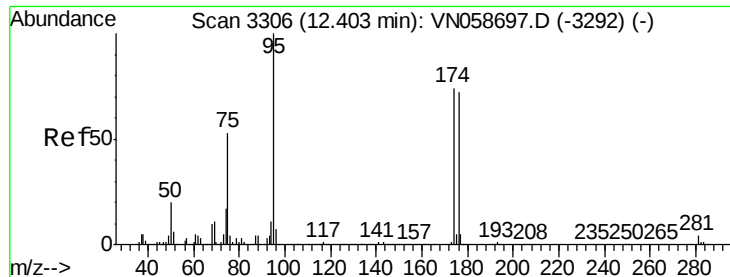
Tgt Ion: 43 Resp: 1415

Ion Ratio Lower Upper

43 100

58 35.3 26.1 78.3





#62

4-Bromofluorobenzene

Concen: 42.745 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-191015

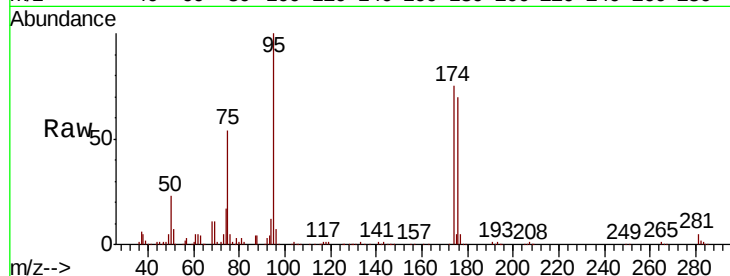
Tot Ion: 95 Resp: 243175

Ion Ratio Lower Upper

95 100

174 76.9 0.0 150.4

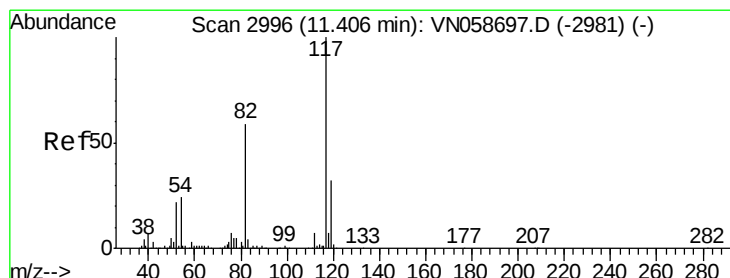
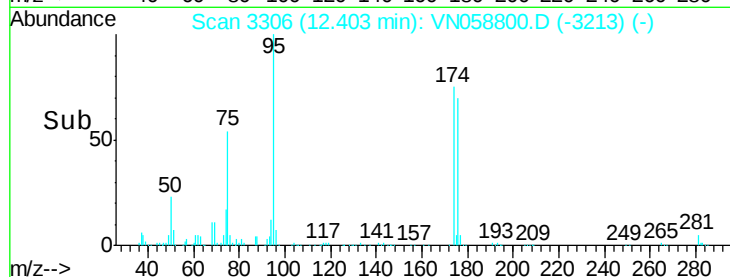
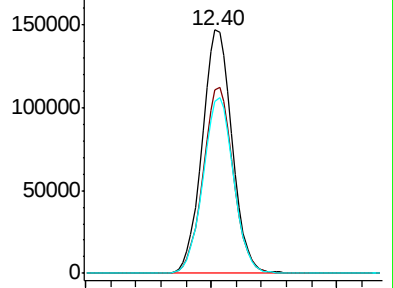
176 73.8 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058800.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058800.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058800.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

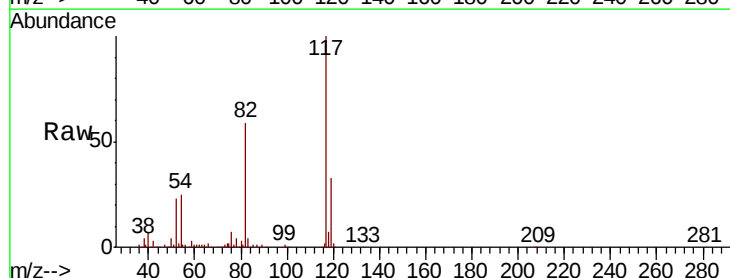
Tgt Ion: 117 Resp: 517974

Ion Ratio Lower Upper

117 100

82 59.4 47.0 70.4

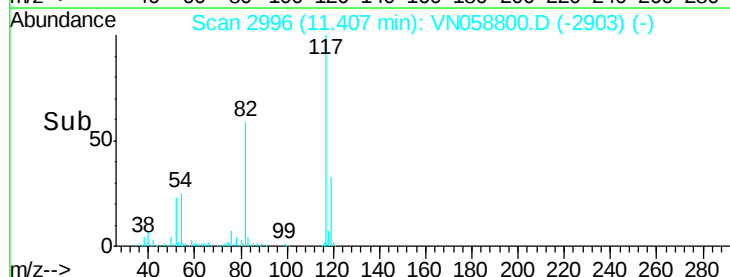
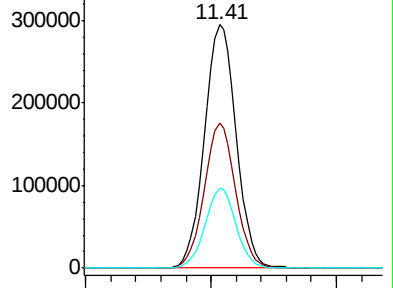
119 32.8 25.4 38.2

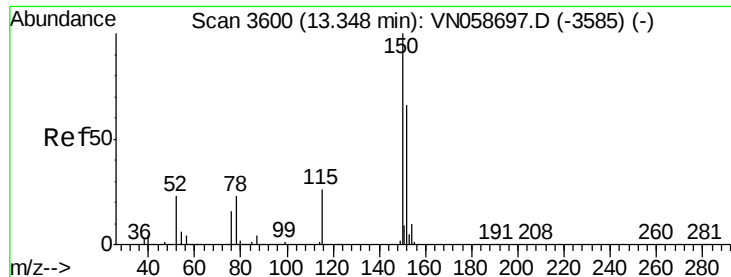


Abundance Ion 116.90 (116.60 to 117.60): VN058800.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058800.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058800.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-191015

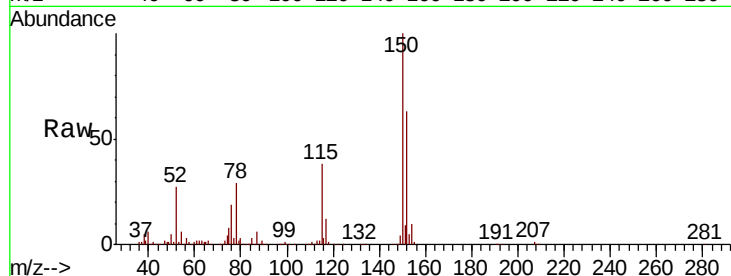
Tot Ion:152 Resp: 194647

Ion Ratio Lower Upper

152 100

115 60.7 30.4 91.2

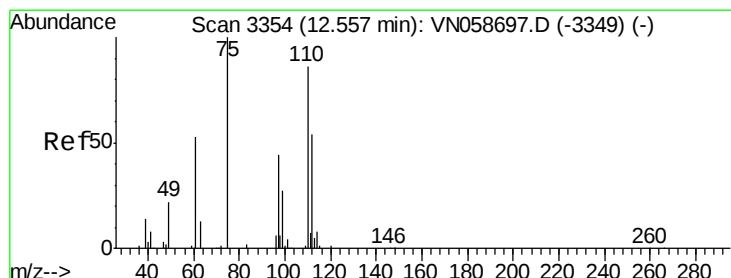
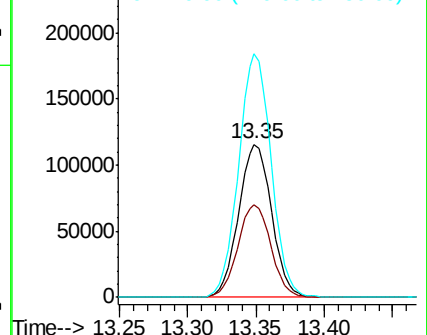
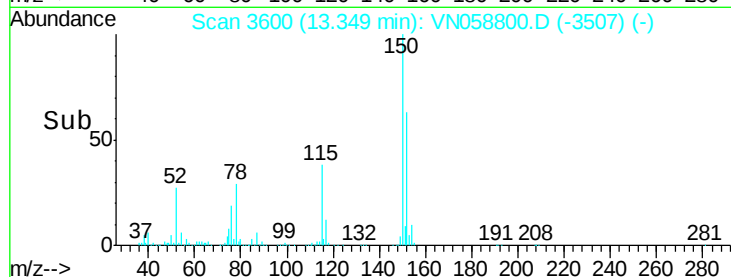
150 156.7 0.0 345.4



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: 30.926 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058800.D

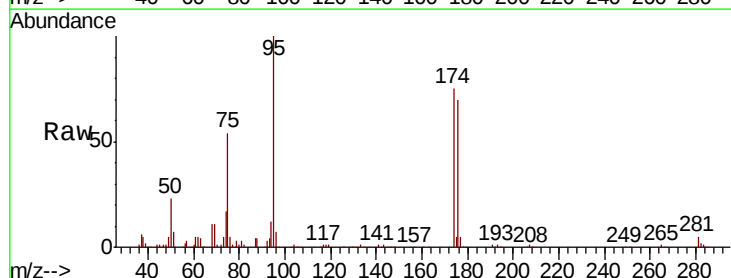
Acq: 16 Oct 2019 14:43

Tgt Ion: 75 Resp: 132056

Ion Ratio Lower Upper

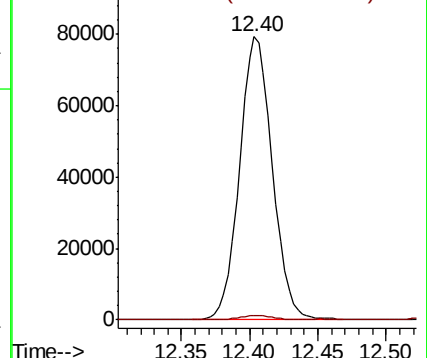
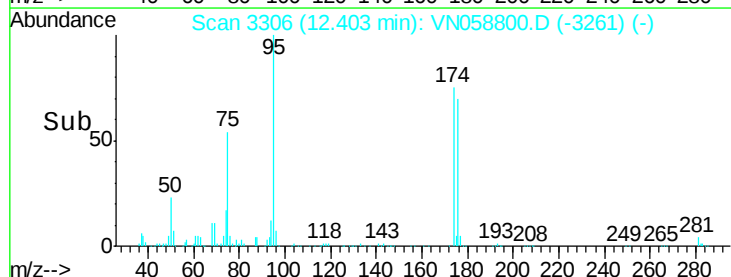
75 100

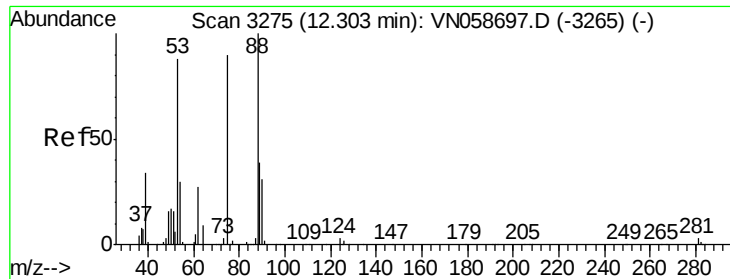
77 1.6 0.0 0.0#



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: 82.841 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-191015

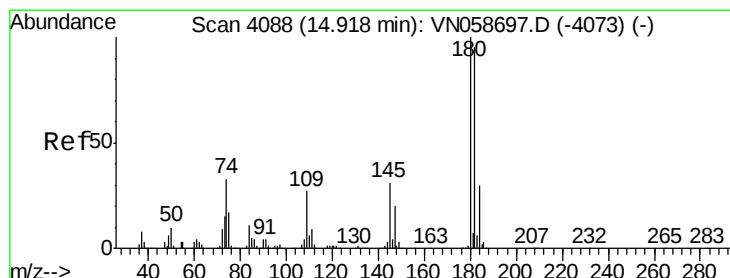
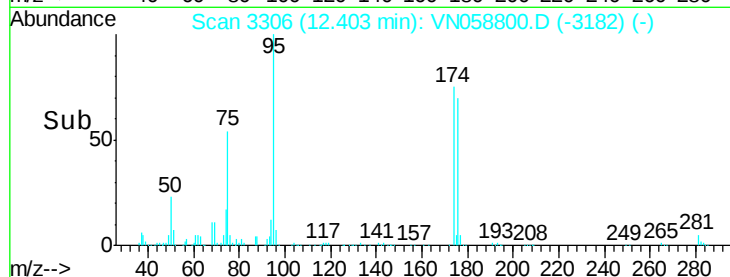
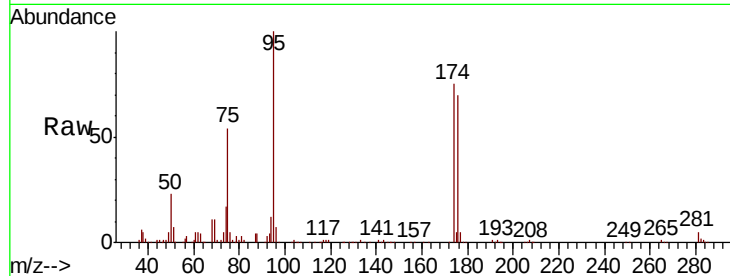
Tot Ion: 75 Resp: 132056

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



#93

1,2,4-Trichlorobenzene

Concen: 0.563 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

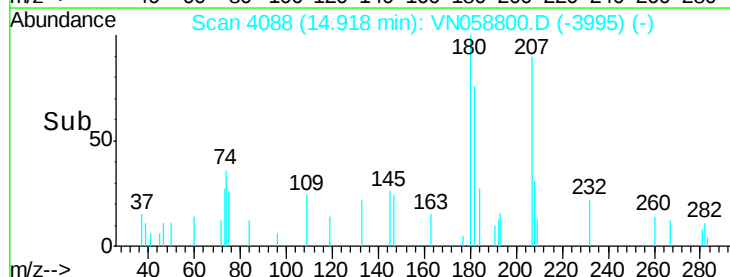
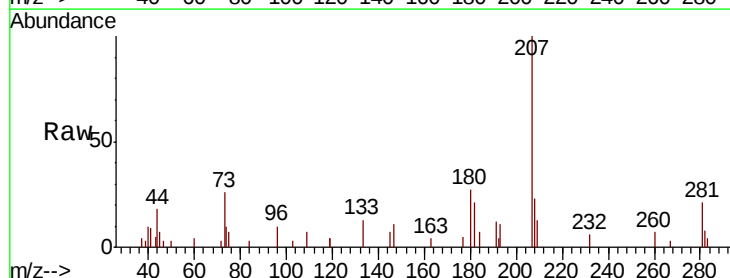
Tgt Ion:180 Resp: 2115

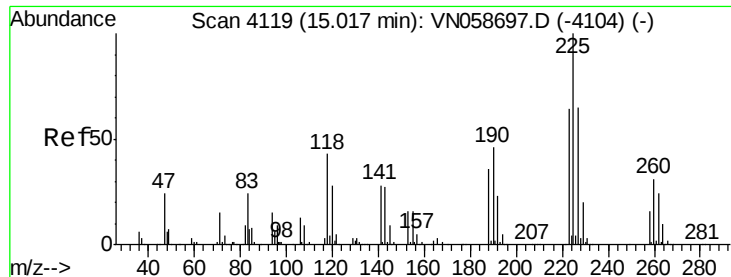
Ion Ratio Lower Upper

180 100

182 79.1 47.4 142.2

145 20.9 15.4 46.2





#94

Hexachlorobutadiene

Concen: 0.232 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.01 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-191015

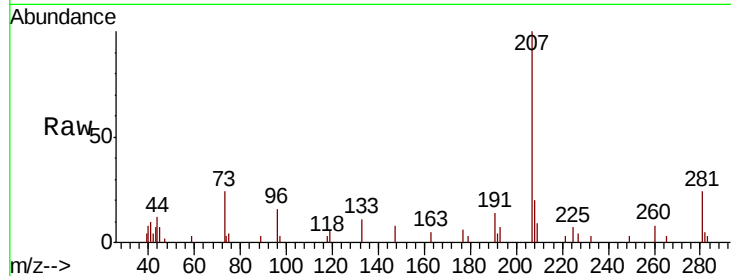
Tot Ion:225 Resp: 459

Ion Ratio Lower Upper

225 100

223 50.8 32.3 96.8

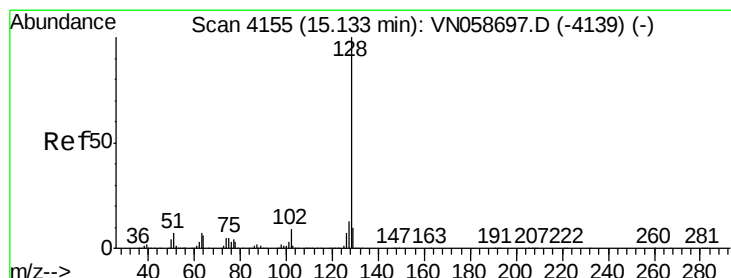
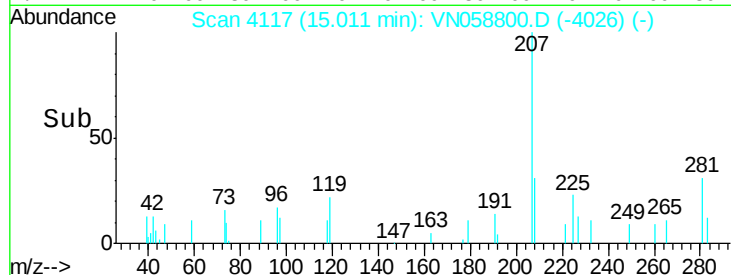
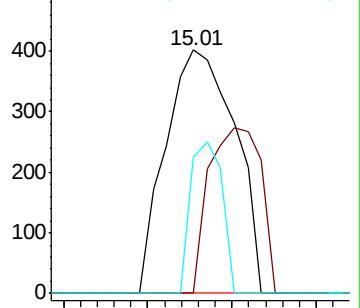
227 28.8 32.4 97.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.775 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058800.D

Acq: 16 Oct 2019 14:43

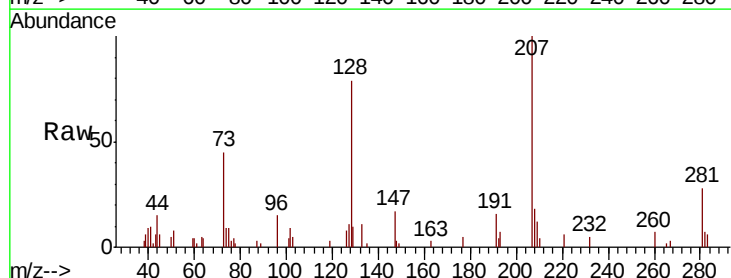
Tgt Ion:128 Resp: 8376

Ion Ratio Lower Upper

128 100

127 14.5 10.2 15.4

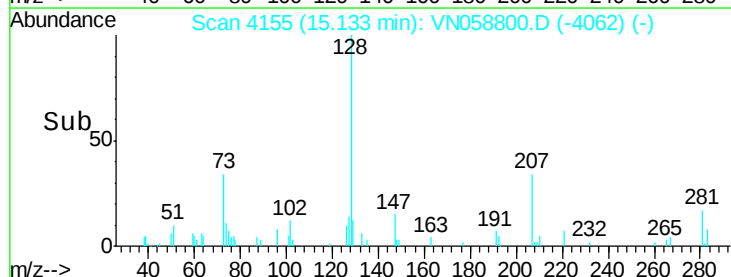
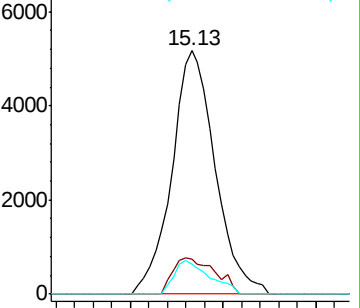
129 11.2 8.5 12.7

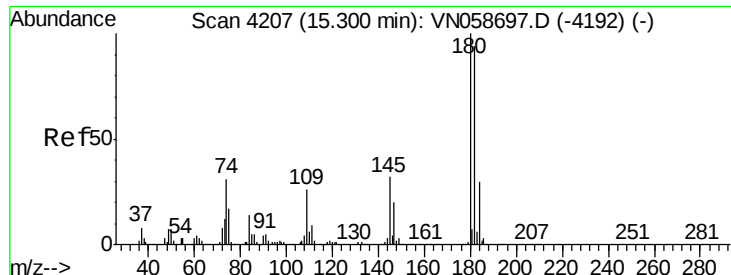


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.652 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058800.D
 Acq: 16 Oct 2019 14:43

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-191015

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	142.0
145	36.0	16.2	48.6

