

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058289.D
 Acq On : 23 Sep 2019 14:02
 Operator : JC/SP
 Sample : K4939-01ME
 Misc : 6.52g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:32:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	493928	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	802717	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	674709	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	276542	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	361032	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
35) Dibromofluoromethane	7.57	113	237783	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	10.08	98	998966	52.54	ug/l	0.00
Spiked Amount			Recovery	=	105.08%	
62) 4-Bromofluorobenzene	12.41	95	313461	44.38	ug/l	0.00
Spiked Amount			Recovery	=	88.76%	

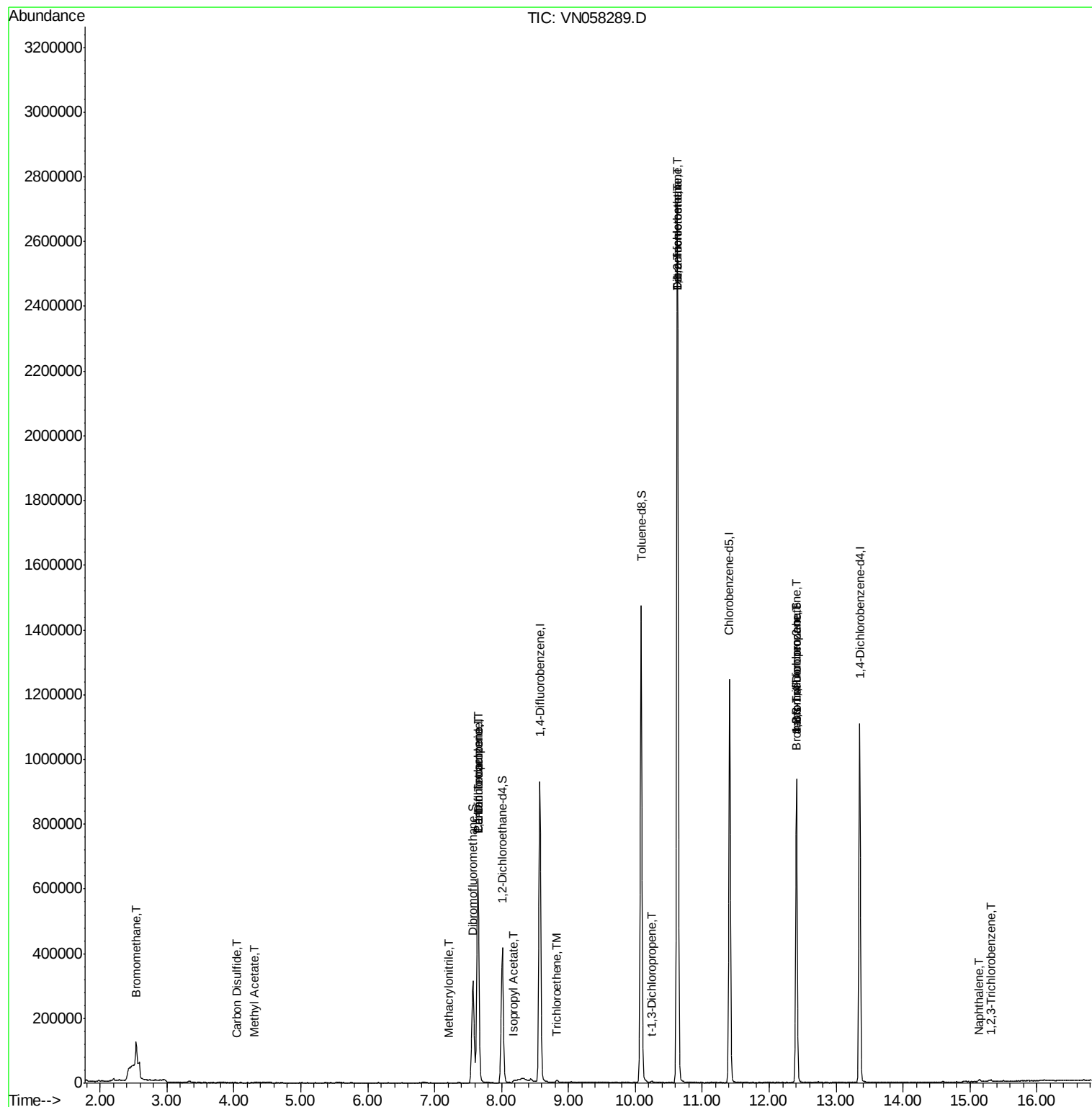
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	502	Below Cal	#	58
5) Bromomethane	2.53	94	132	0.794	ug/l #	4
6) Chloroethane	2.63	64	64	Below Cal	#	44
17) Carbon Disulfide	4.04	76	63	0.286	ug/l #	74
18) Methyl Acetate	4.31	43	4196	0.683	ug/l #	63
31) Cyclohexane	7.64	56	12652	Below Cal	#	21
36) 1,1-Dichloropropene	7.64	75	41647	7.194	ug/l #	51
38) Carbon Tetrachloride	7.65	117	50356	8.654	ug/l #	15
41) Methacrylonitrile	7.22	41	62	0.931	ug/l #	100
43) Isopropyl Acetate	8.18	43	4480	0.399	ug/l #	57
44) Trichloroethene	8.82	130	2441	0.564	ug/l	90
53) t-1,3-Dichloropropene	10.24	75	2375	0.345	ug/l #	44
55) 1,1,2-Trichloroethane	10.63	97	5239	1.065	ug/l #	1
60) Dibromochloromethane	10.63	129	580012	122.604	ug/l #	11
64) Tetrachloroethene	10.63	164	593116	180.331	ug/l	99
71) Bromoform	12.39	173	279	3.676	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	173429	35.042	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	173429	98.017	ug/l #	5
95) Naphthalene	15.14	128	5801	0.439	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	1068	0.222	ug/l	78

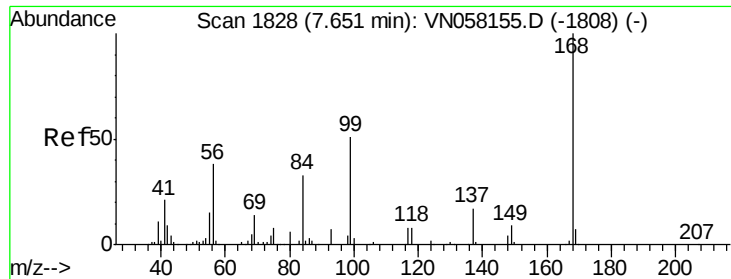
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
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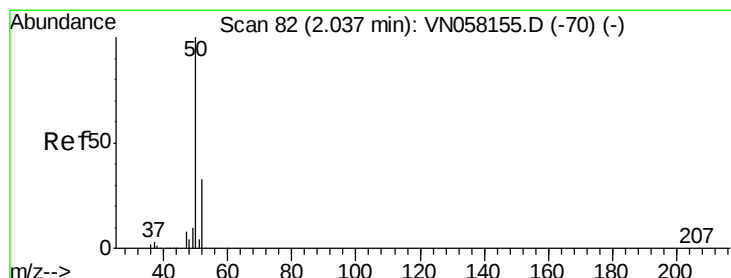
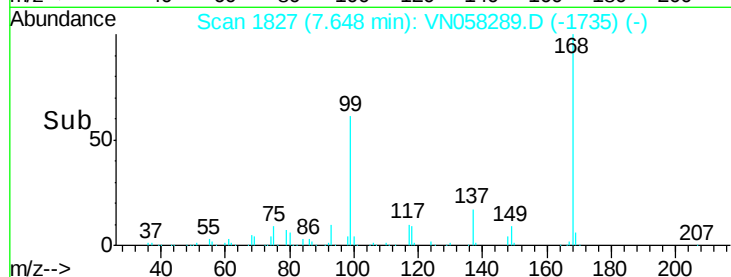
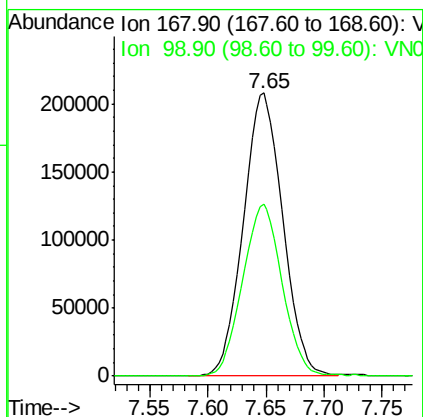
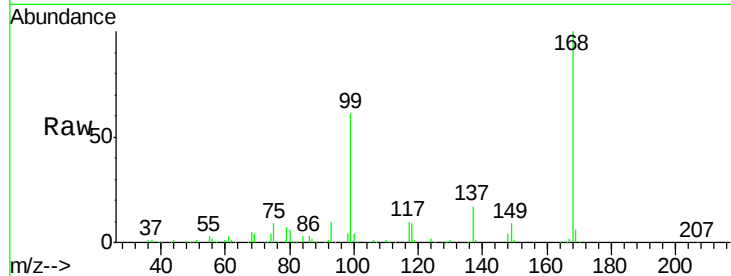




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.00 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

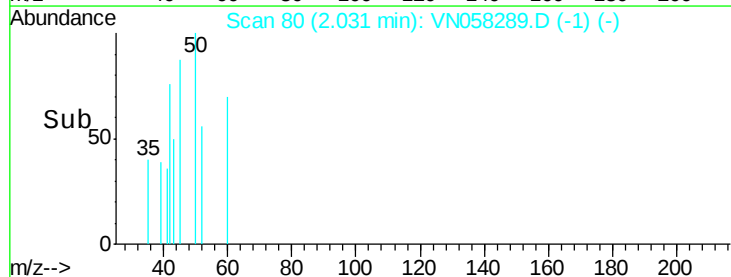
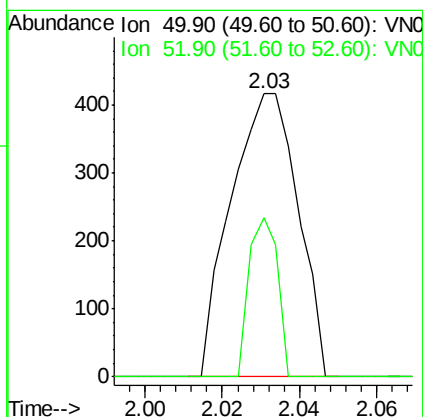
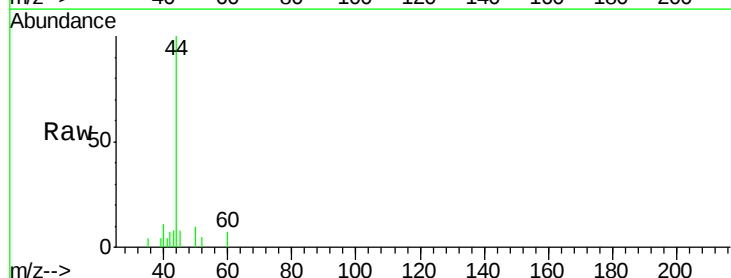
Instrument :
MSVOA_N
ClientSampled :

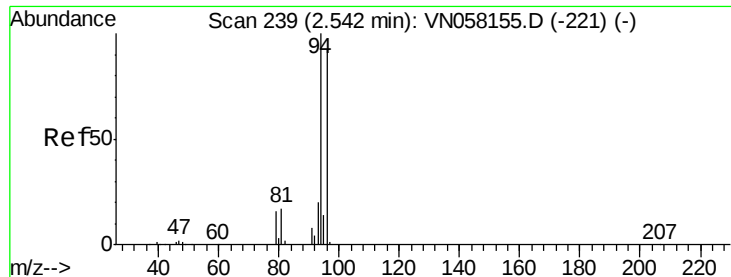
Tot Ion:168 Resp: 493928
Ion Ratio Lower Upper
168 100
99 60.9 47.4 71.2



#3
Chloromethane
Concen: Below Cal
RT: 2.03 min Scan# 80
Delta R.T. -0.01 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

Tgt Ion: 50 Resp: 502
Ion Ratio Lower Upper
50 100
52 56.4 26.3 39.5#





#5

Bromomethane

Concen: 0.794 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.01 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Instrument :

MSVOA_N

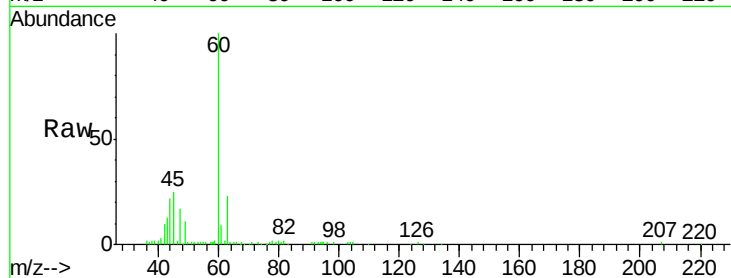
ClientSampled :

Tot Ion: 94 Resp: 132

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.53

2.54

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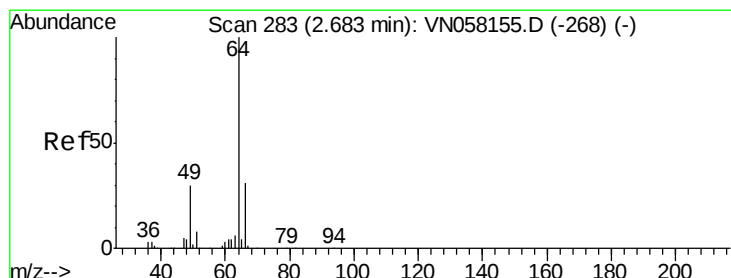
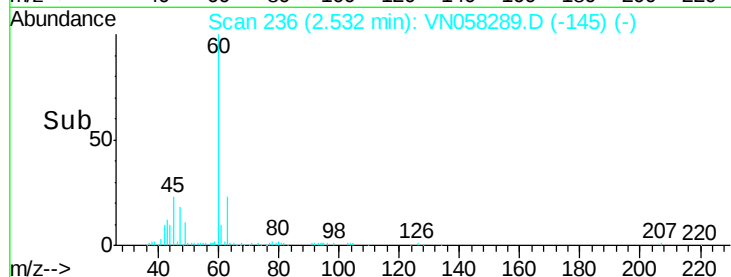
2.54

2.53

2.54

2.53

2.54



#6

Chloroethane

Concen: Below Cal

RT: 2.63 min Scan# 265

Delta R.T. -0.06 min

Lab File: VN058289.D

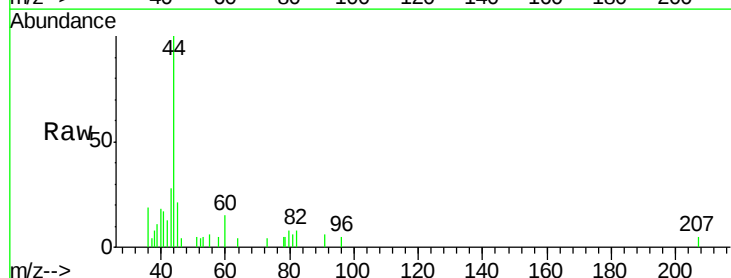
Acq: 23 Sep 2019 14:02

Tgt Ion: 64 Resp: 64

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.63

2.63

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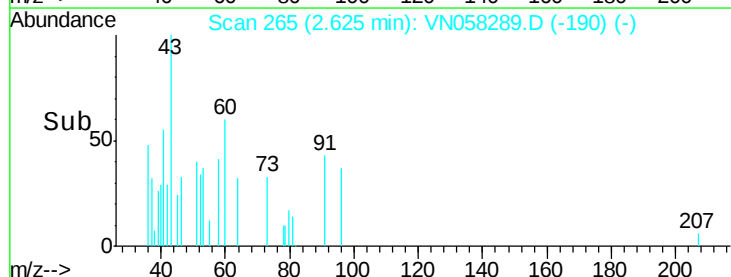
2.63

2.63

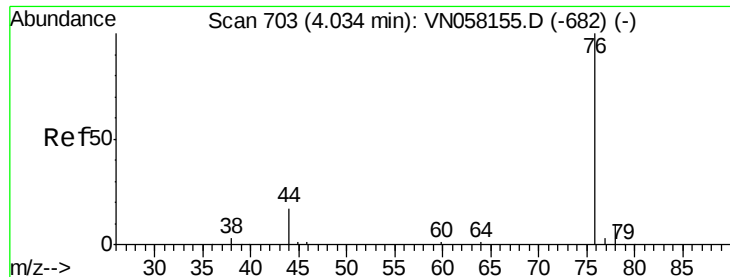
2.63

2.63

2.63



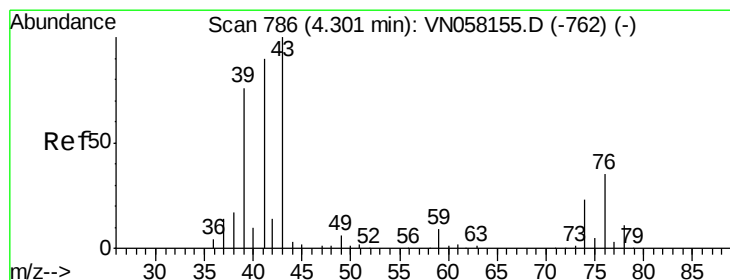
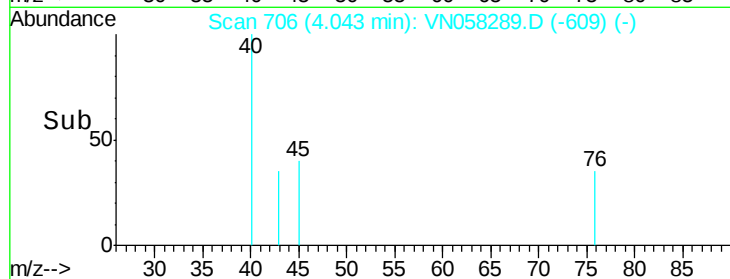
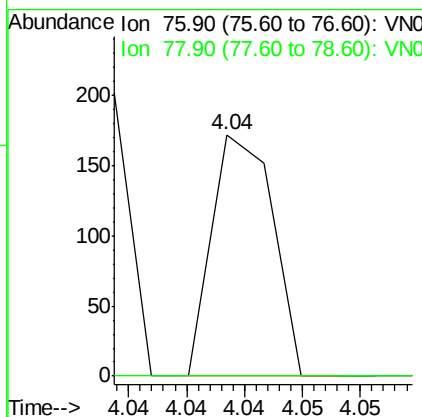
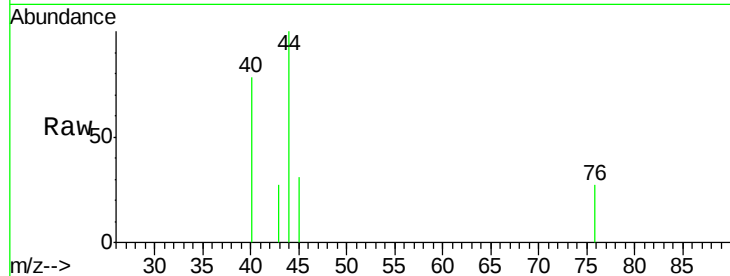
Time-->



#17
Carbon Disulfide
Concen: 0.286 ug/l
RT: 4.04 min Scan# 706
Delta R.T. 0.01 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

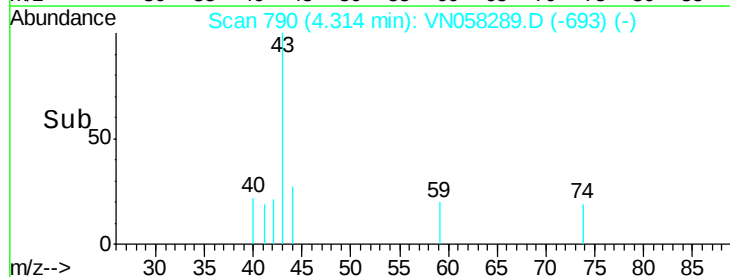
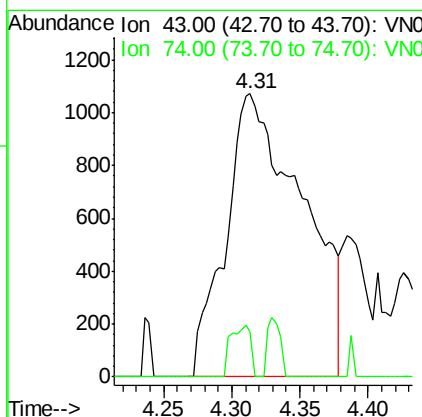
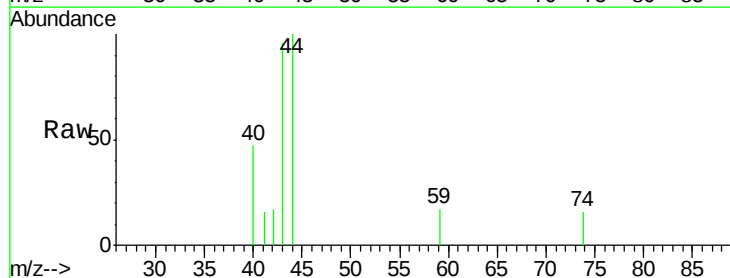
Instrument :
MSVOA_N
ClientSampled :

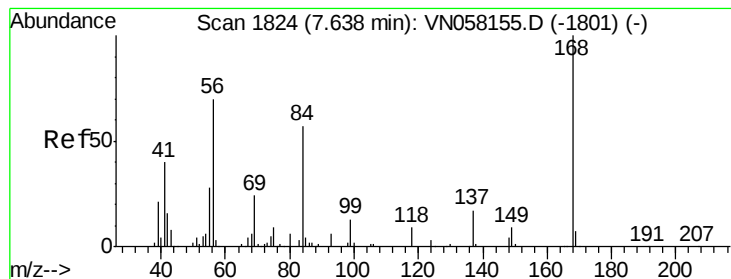
Tot Ion: 76 Resp: 63
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methyl Acetate
Concen: 0.683 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

Tgt Ion: 43 Resp: 4196
Ion Ratio Lower Upper
43 100
74 4.7 18.0 27.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Instrument :
MSVOA_N
ClientSampled :

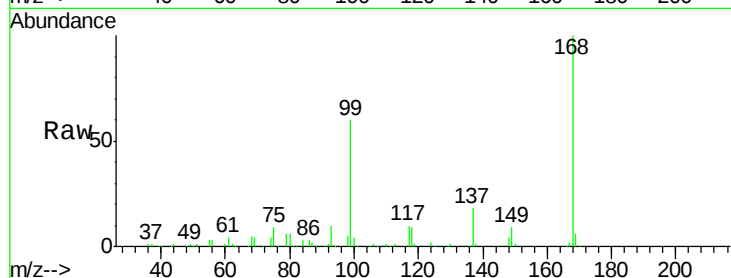
Tot Ion: 56 Resp: 12652

Ion Ratio Lower Upper

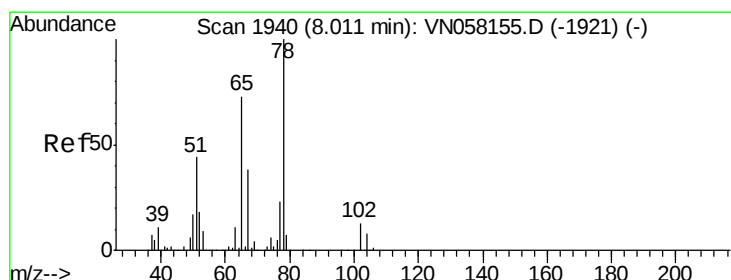
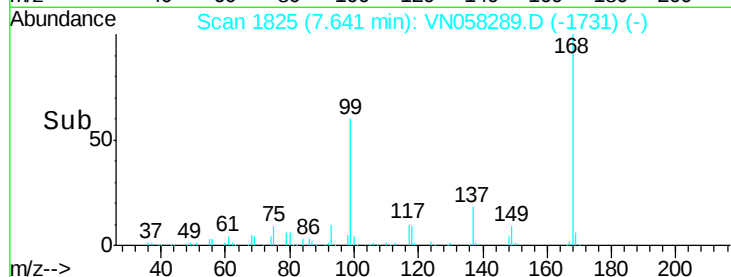
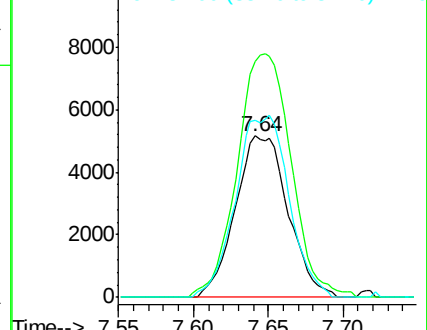
56 100

69 143.5 27.3 40.9#

84 109.6 65.0 97.4#



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



#33

1,2-Dichloroethane-d4

Concen: 52.480 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058289.D

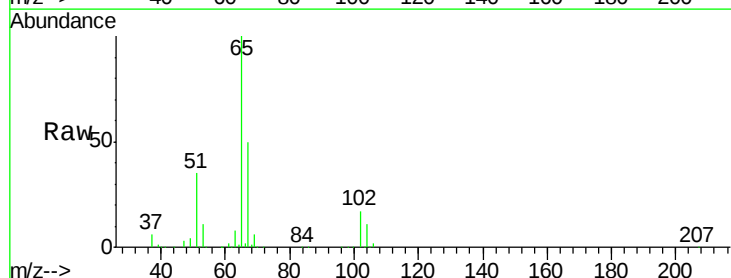
Acq: 23 Sep 2019 14:02

Tgt Ion: 65 Resp: 361032

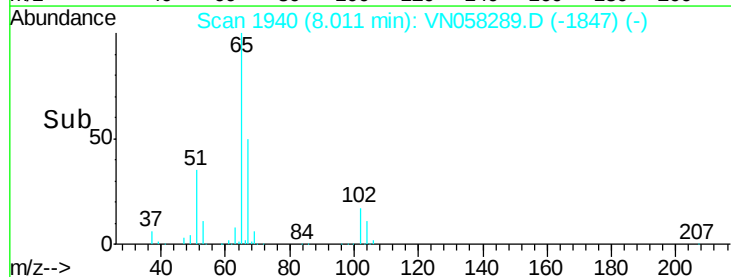
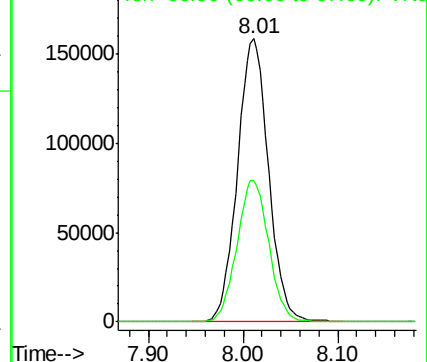
Ion Ratio Lower Upper

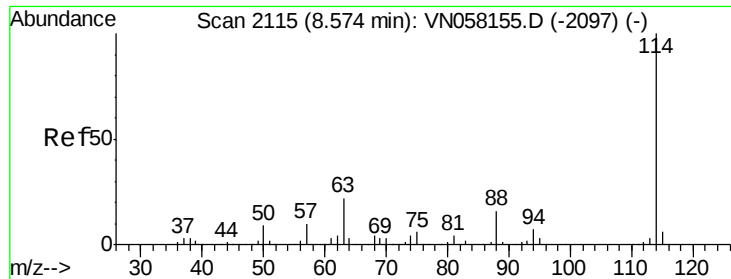
65 100

67 51.4 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

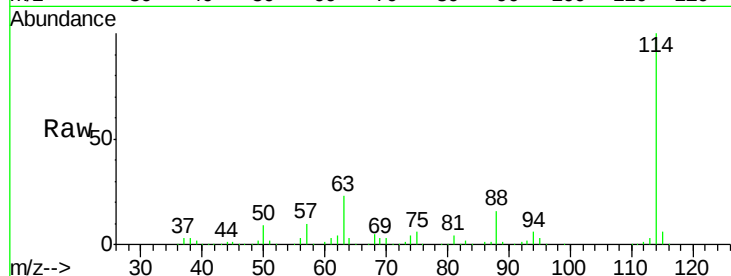




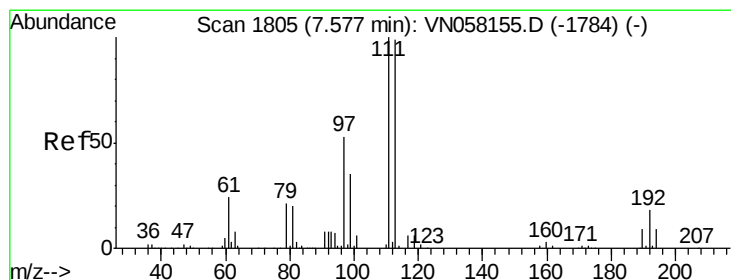
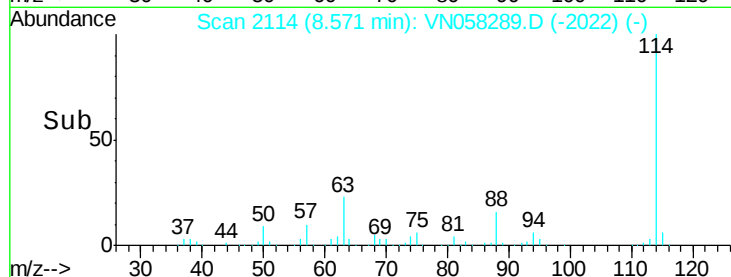
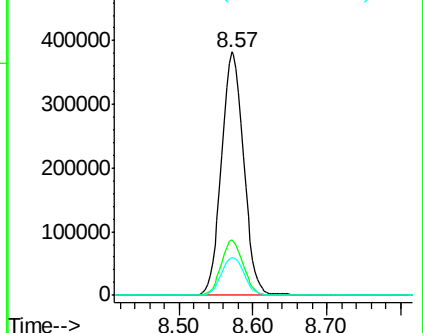
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058289.D
 Acq: 23 Sep 2019 14:02

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	44.2
88	15.6	0.0	31.6

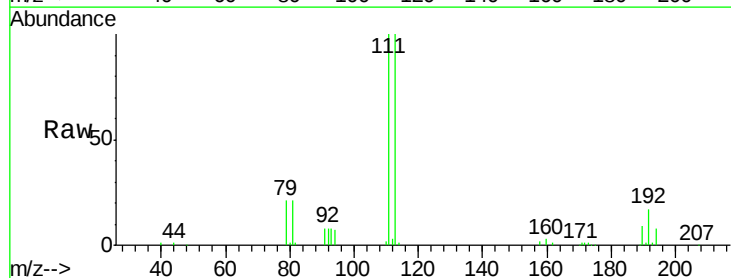


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

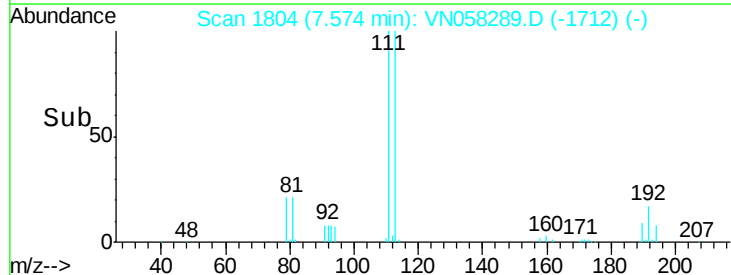
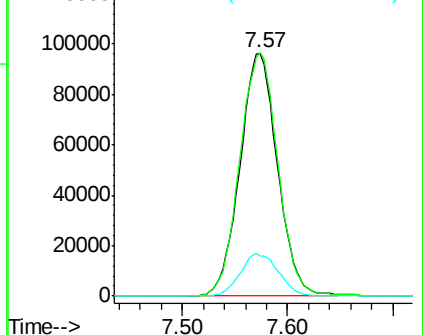


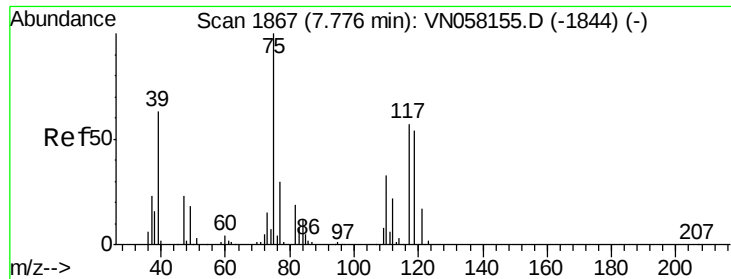
#35
 Dibromofluoromethane
 Concen: 48.727 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058289.D
 Acq: 23 Sep 2019 14:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.8	122.6
192	17.8	14.5	21.7



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

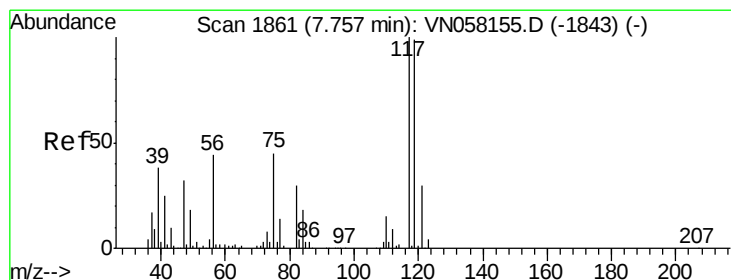
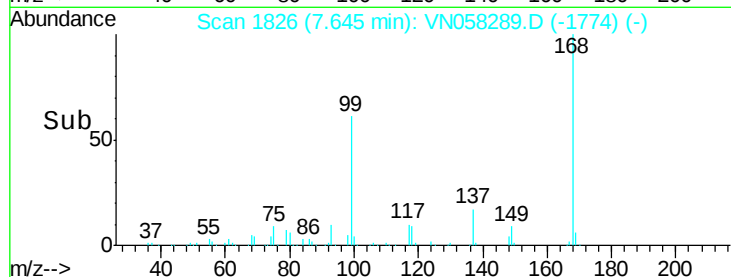
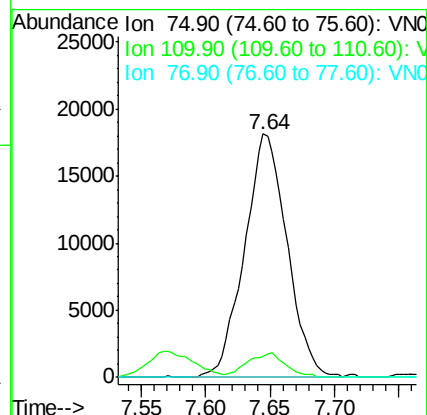
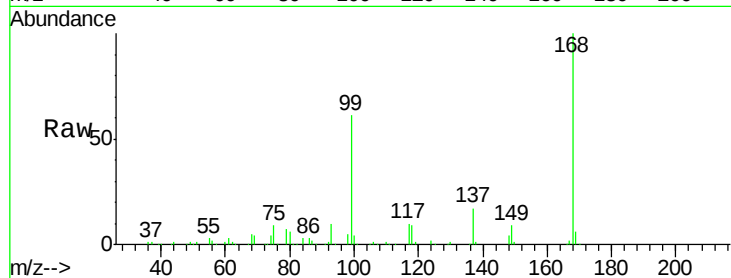




#36
 1,1-Dichloropropene
 Concen: 7.194 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN058289.D
 Acq: 23 Sep 2019 14:02

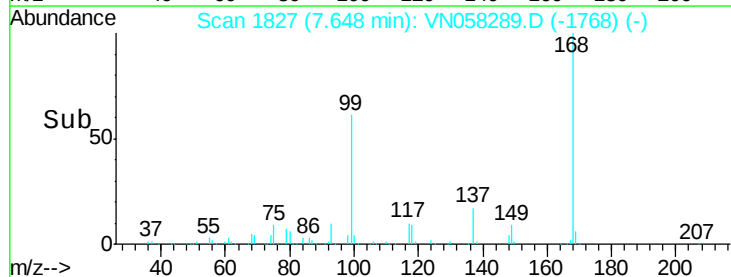
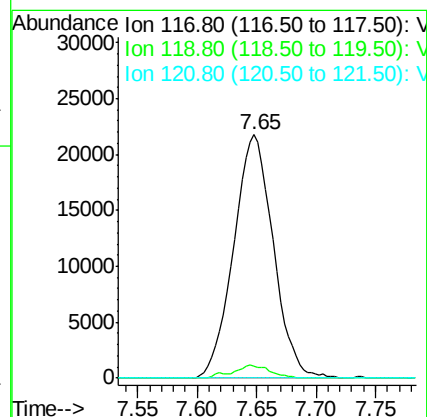
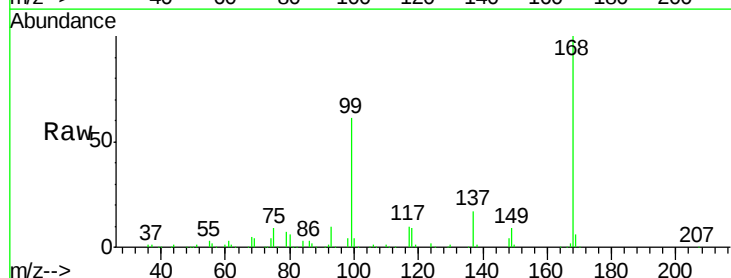
Instrument :
 MSVOA_N
 ClientSampleId :

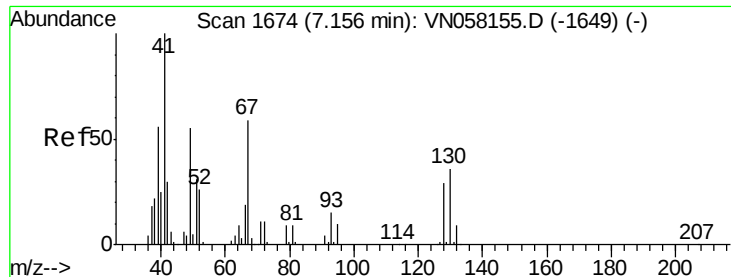
Tot Ion	75	Resp	41647
Ion Ratio	Lower	Upper	
75	100		
110	9.2	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.654 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058289.D
 Acq: 23 Sep 2019 14:02

Tgt Ion	117	Resp	50356
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.9	78.6	117.8#
121	0.0	24.1	36.1#

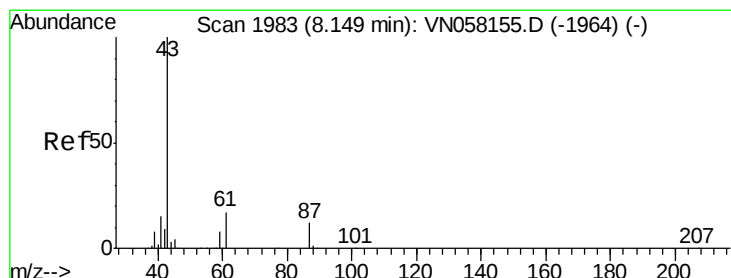
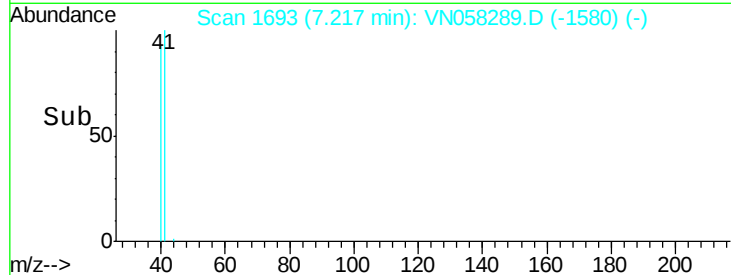
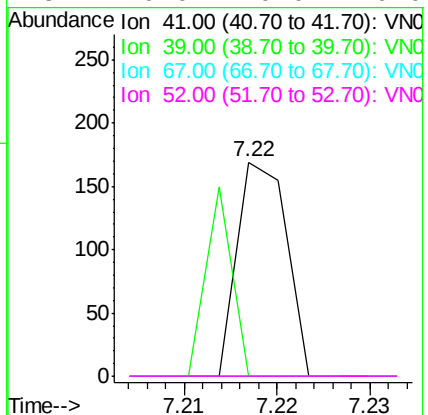
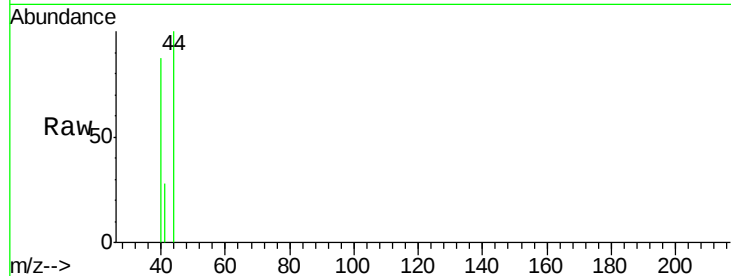




#41
Methacrylonitrile
Concen: 0.931 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.06 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

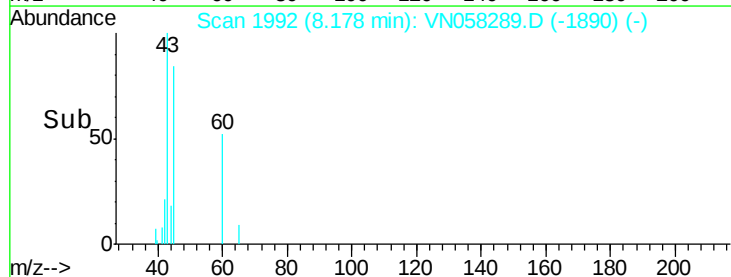
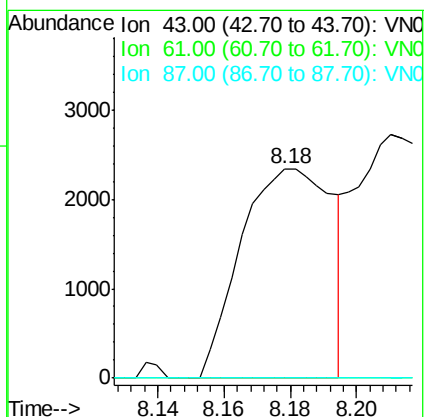
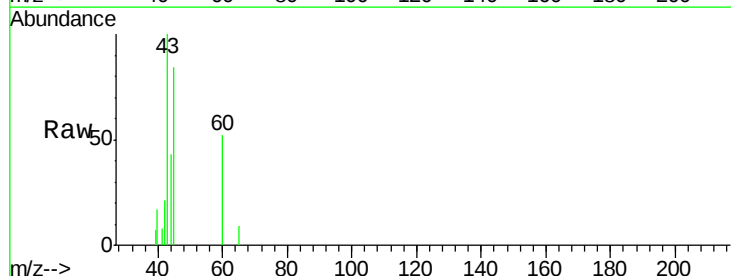
Instrument :
MSVOA_N
ClientSampled :

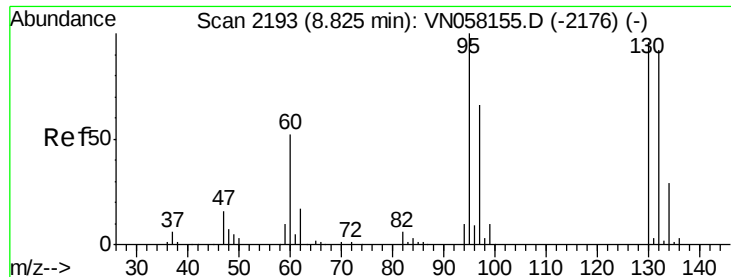
Tot Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
39	46.8	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 0.399 ug/l
RT: 8.18 min Scan# 1992
Delta R.T. 0.03 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

Tgt Ion:	43	Resp:	4480
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 0.564 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Instrument :

MSVOA_N

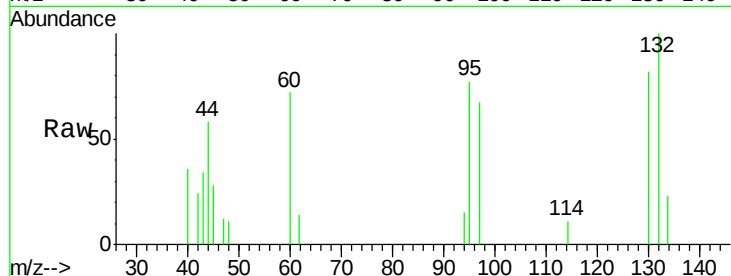
ClientSampled :

Tot Ion:130 Resp: 2441

Ion Ratio Lower Upper

130 100

95 93.7 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.82

1000

800

600

400

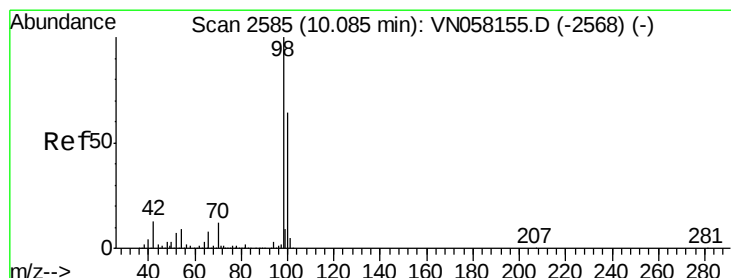
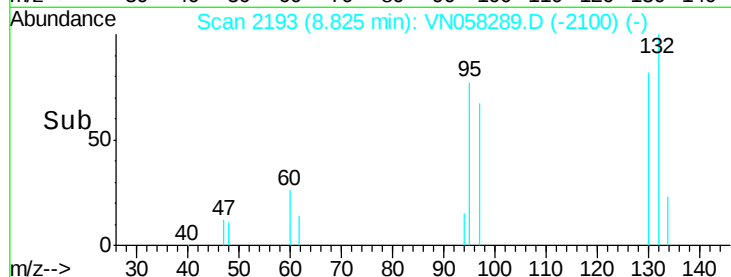
200

0

8.80

8.85

Time-->



#50

Toluene-d8

Concen: 52.541 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058289.D

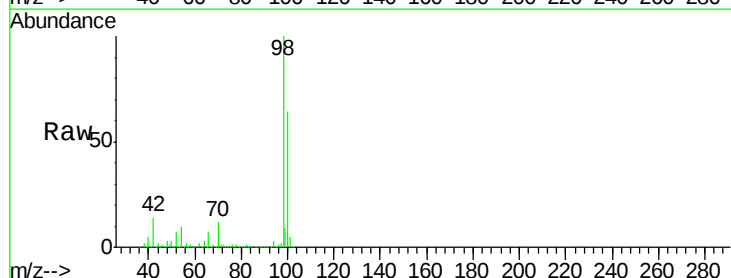
Acq: 23 Sep 2019 14:02

Tgt Ion: 98 Resp: 998966

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.08

600000

500000

400000

300000

200000

100000

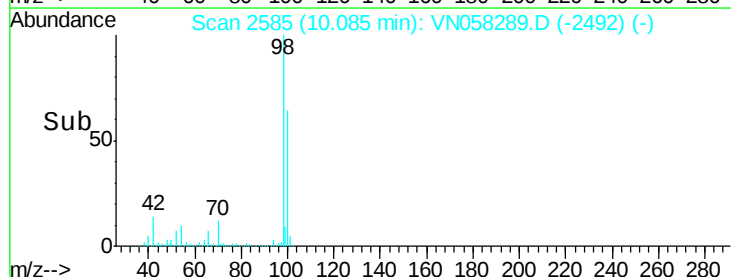
0

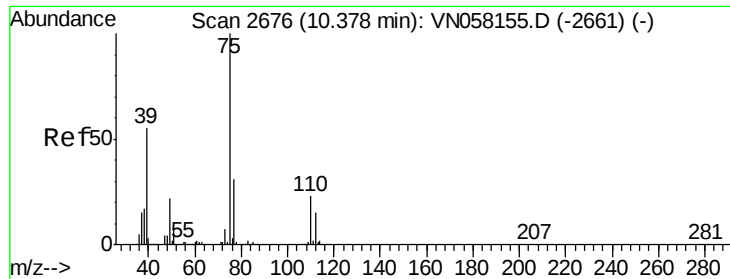
10.00

10.10

10.20

Time-->





#53

t-1,3-Dichloropropene

Concen: 0.345 ug/l

RT: 10.24 min Scan# 2634

Delta R.T. -0.14 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Instrument :

MSVOA_N

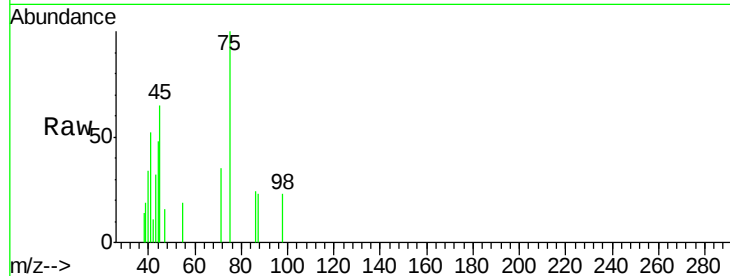
ClientSampleId :

Tot Ion: 75 Resp: 2375

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

10.24

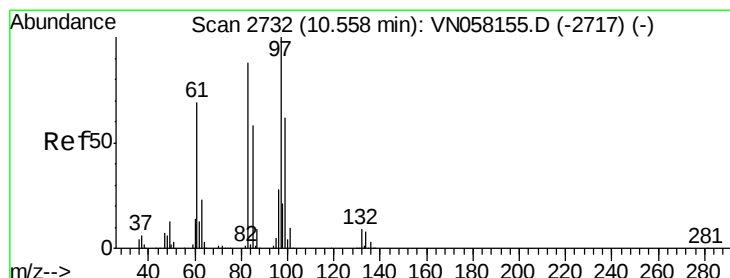
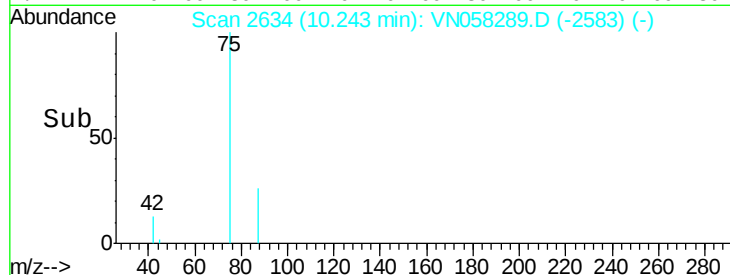
1500

1000

500

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 1.065 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.07 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Tgt Ion: 97 Resp: 5239

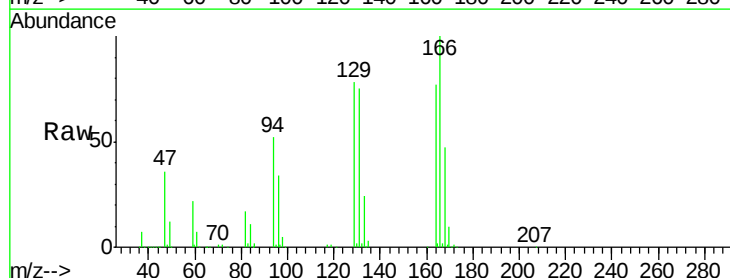
Ion Ratio Lower Upper

97 100

83 253.3 70.4 105.6#

85 41.8 46.8 70.2#

99 15.5 49.9 74.9#



Abundance Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO

12000

10000

8000

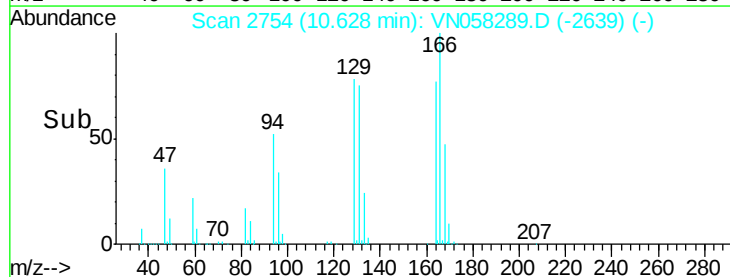
6000

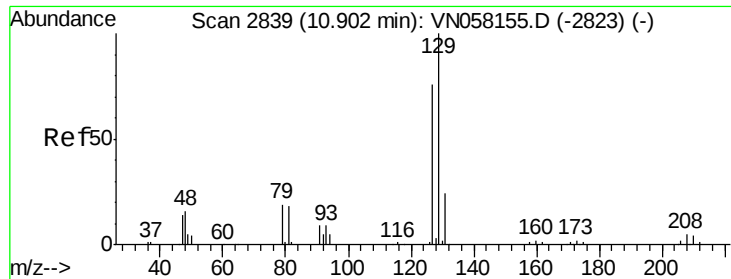
4000

2000

0

Time-->

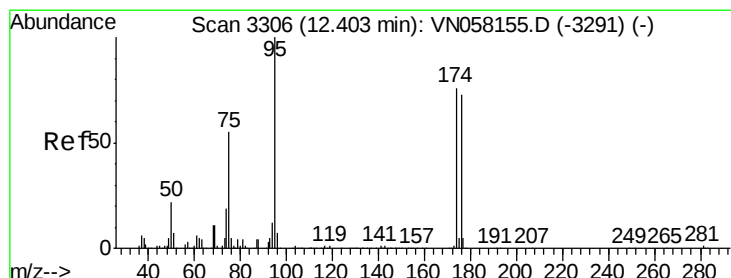
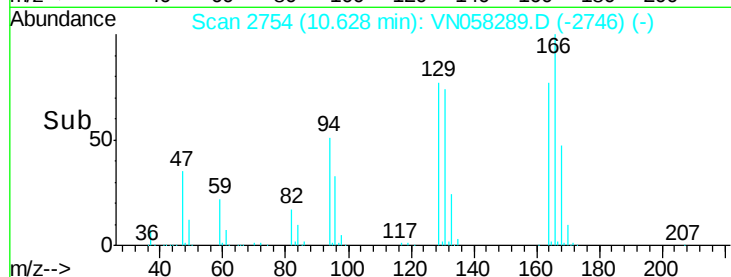
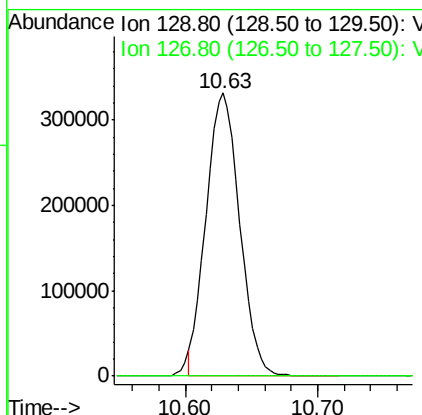
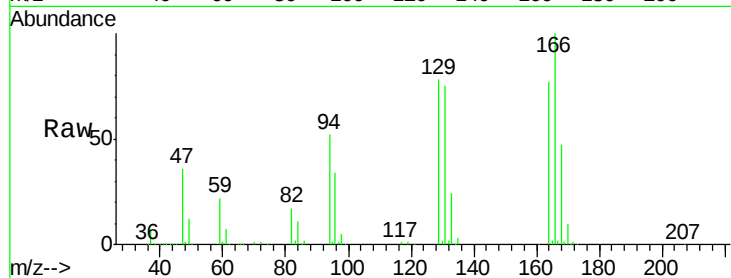




#60
 Dibromochloromethane
 Concen: 122.604 ug/l
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN058289.D
 Acq: 23 Sep 2019 14:02

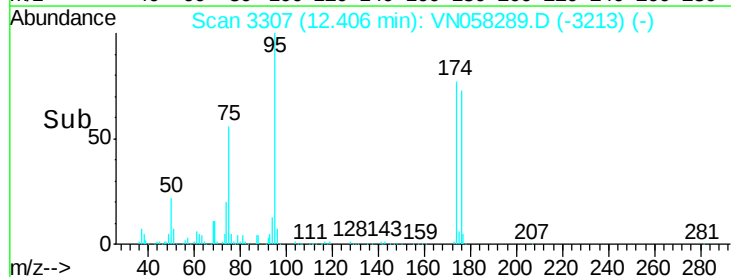
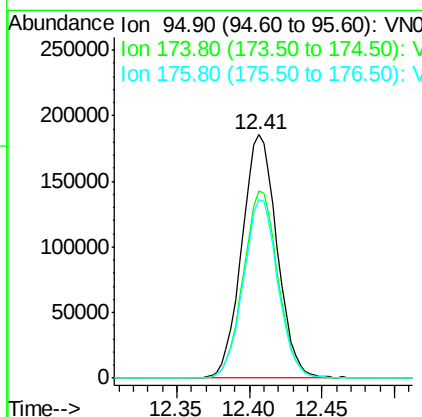
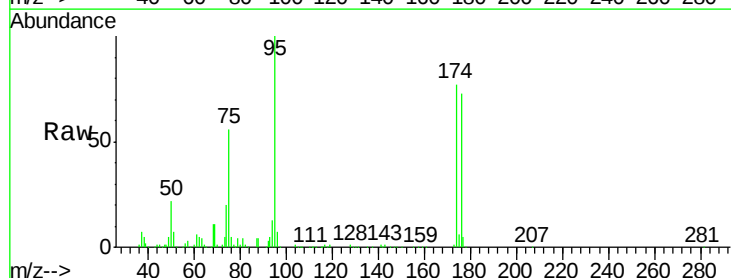
Instrument :
 MSVOA_N
 ClientSampled :

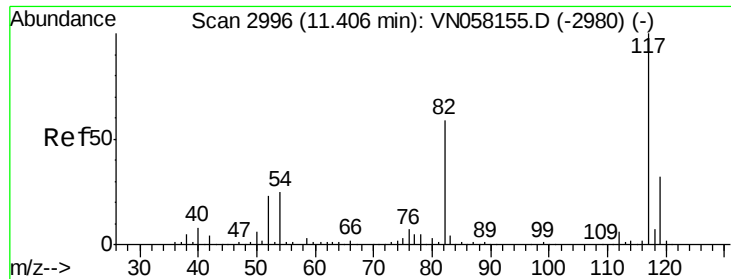
Tot Ion:129 Resp: 580012
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#



#62
 4-Bromofluorobenzene
 Concen: 44.383 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058289.D
 Acq: 23 Sep 2019 14:02

Tgt Ion: 95 Resp: 313461
 Ion Ratio Lower Upper
 95 100
 174 75.9 0.0 152.2
 176 72.0 0.0 148.0

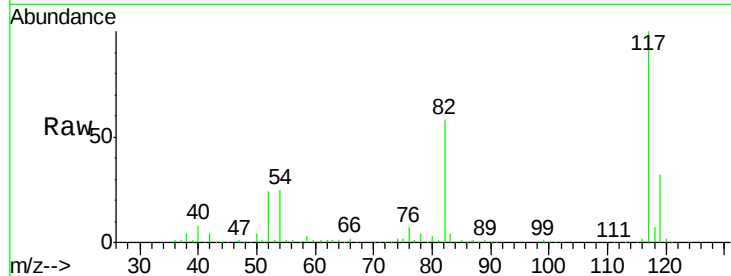




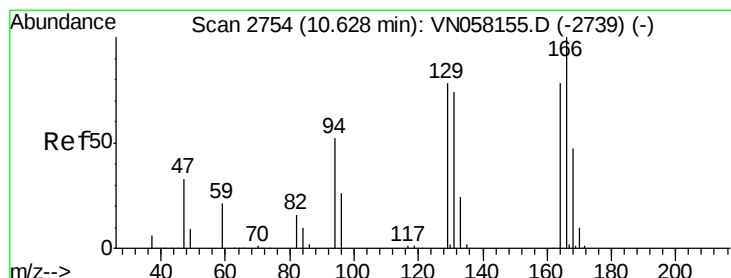
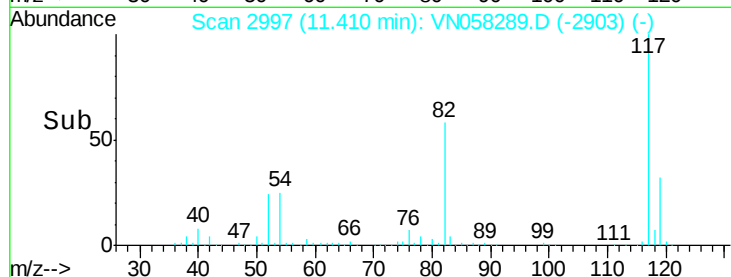
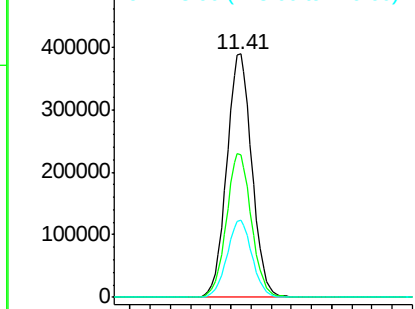
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 674709
Ion Ratio Lower Upper
117 100
82 58.4 46.9 70.3
119 31.8 25.3 37.9

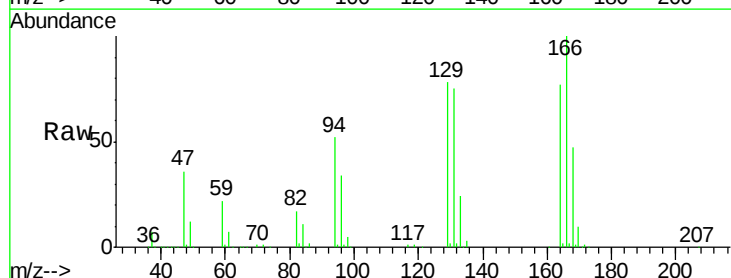


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

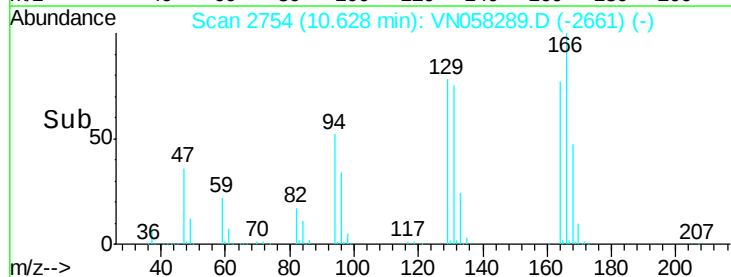
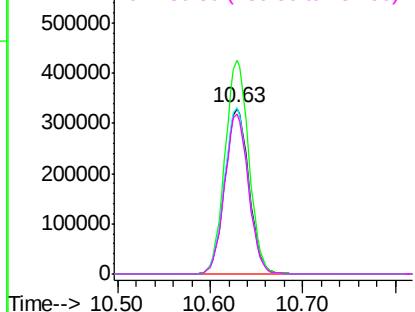


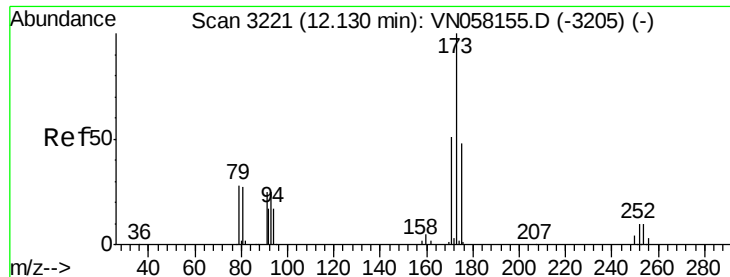
#64
Tetrachloroethene
Concen: 180.331 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058289.D
Acq: 23 Sep 2019 14:02

Tgt Ion:164 Resp: 593116
Ion Ratio Lower Upper
164 100
166 129.1 102.2 153.4
129 100.7 79.6 119.4
131 96.7 76.0 114.0



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: 3.676 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

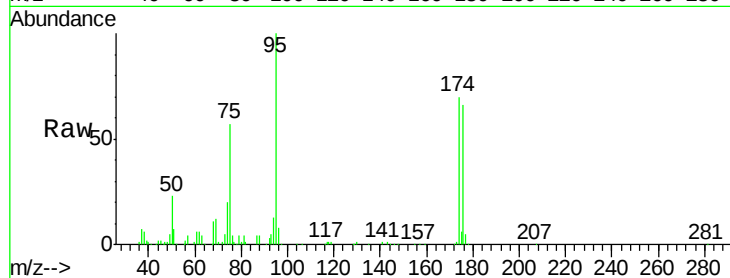
Tot Ion:173 Resp: 279

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

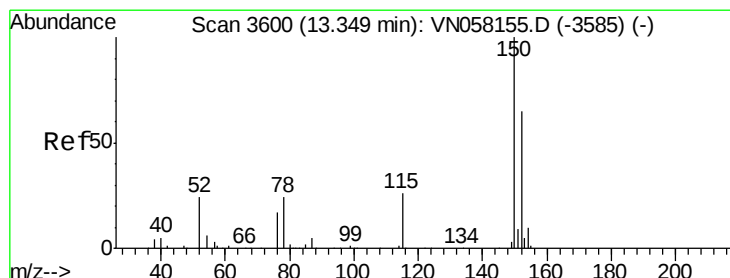
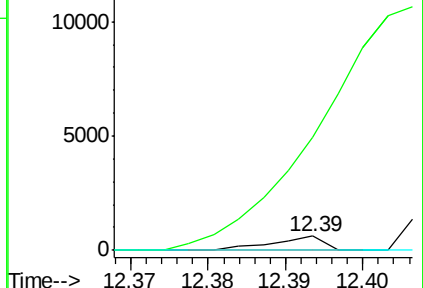
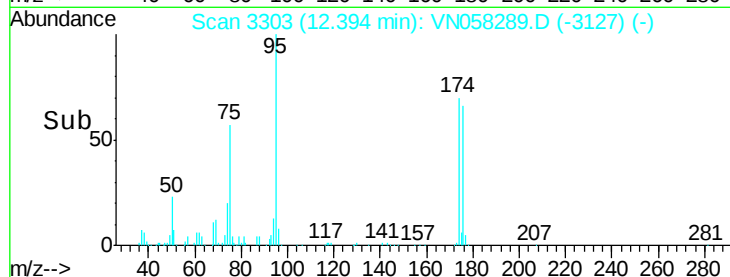
254 0.0 0.1 0.1#



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: VN058289.D

Acq: 23 Sep 2019 14:02

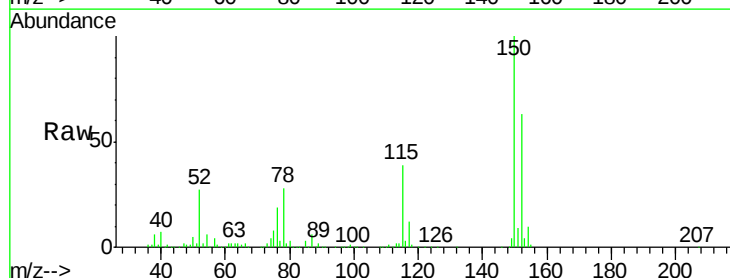
Tgt Ion:152 Resp: 276542

Ion Ratio Lower Upper

152 100

115 62.1 30.1 90.3

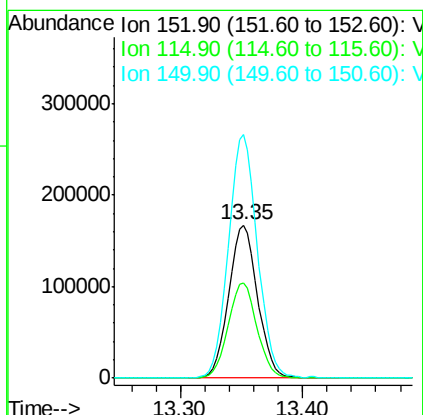
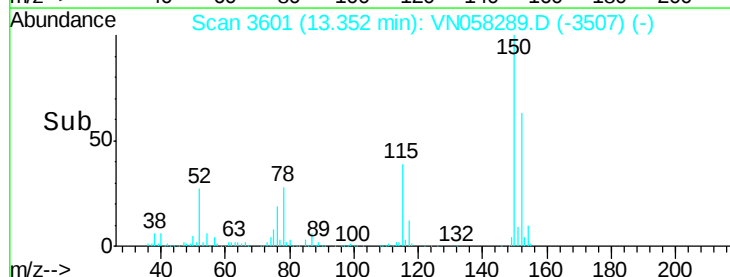
150 158.8 0.0 346.4

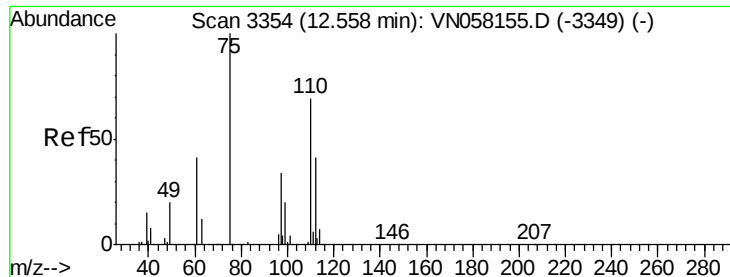


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.042 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Instrument :

MSVOA_N

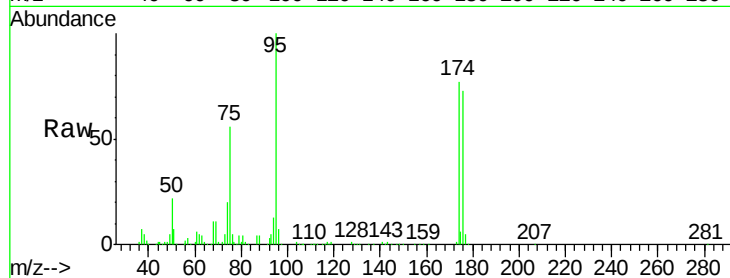
ClientSampled :

Tot Ion: 75 Resp: 173429

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

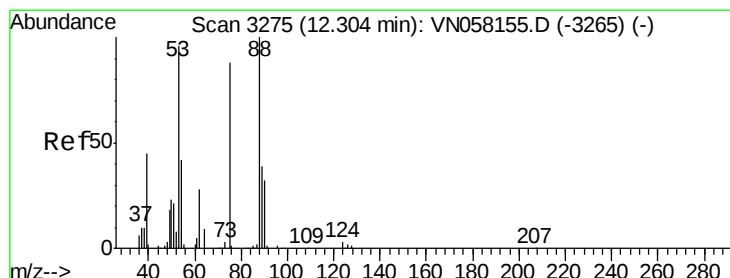
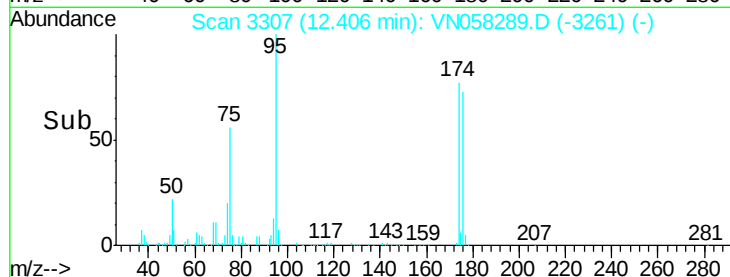
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.017 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

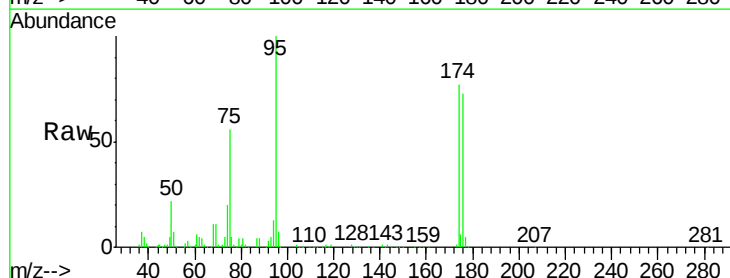
Tgt Ion: 75 Resp: 173429

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

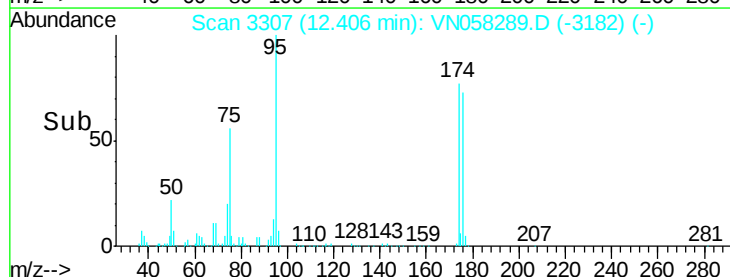
Ion 88.90 (88.60 to 89.60): VN0

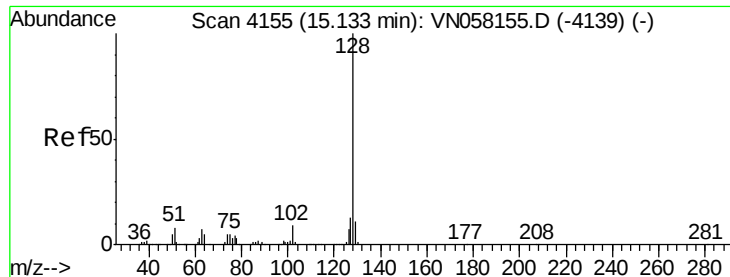
100000

50000

0

Time-->





#95

Naphthalene

Concen: 0.439 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

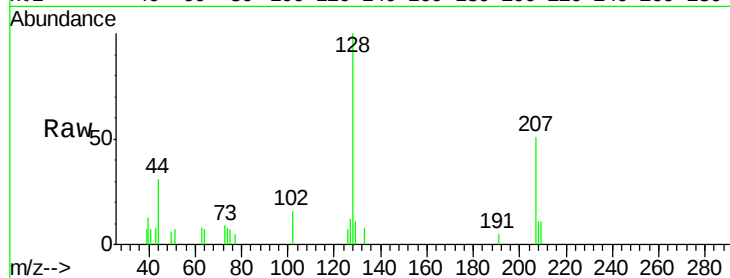
Tot Ion:128 Resp: 5801

Ion Ratio Lower Upper

128 100

127 14.9 10.2 15.2

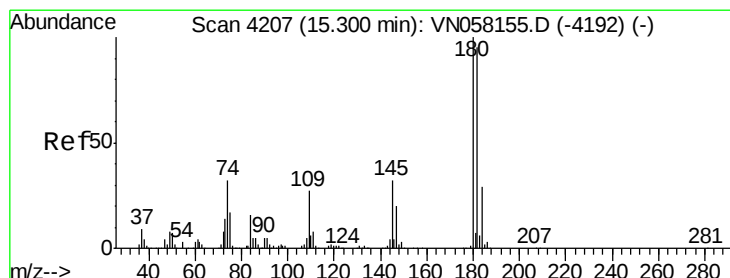
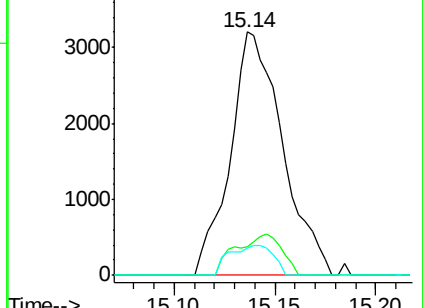
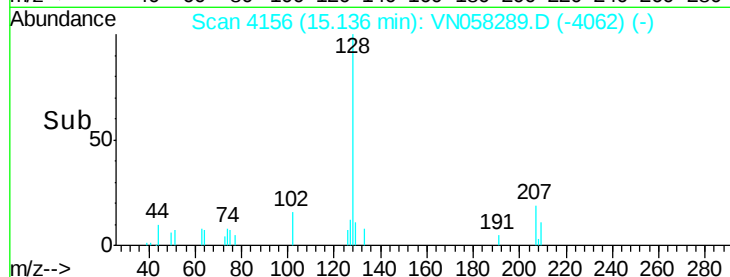
129 10.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.222 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.01 min

Lab File: VN058289.D

Acq: 23 Sep 2019 14:02

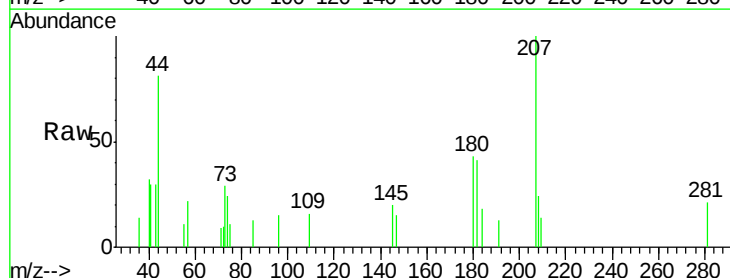
Tgt Ion:180 Resp: 1068

Ion Ratio Lower Upper

180 100

182 121.1 47.4 142.2

145 35.0 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

