

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\
 Data File : VN058781.D
 Acq On : 15 Oct 2019 14:48
 Operator : JC/SP
 Sample : K5331-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Quant Time: Oct 16 04:17:16 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	391922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	653853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	559073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	235833	50.00	ug/l	0.00

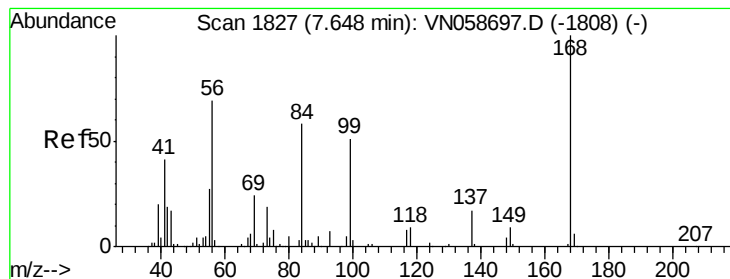
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	307531	56.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.10%	
35) Dibromofluoromethane	7.57	113	209797	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
50) Toluene-d8	10.08	98	747351	46.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.54%	
62) 4-Bromofluorobenzene	12.40	95	260546	42.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.24%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.74	59	182	0.205	ug/l #	72
16) Acetone	3.80	43	5611	2.470	ug/l	93
20) Methylene Chloride	4.53	84	14636	3.083	ug/l	90
25) 2-Butanone	6.83	43	978	0.298	ug/l #	50
29) Tetrahydrofuran	7.20	42	567	0.267	ug/l #	35
31) Cyclohexane	7.65	56	9418	1.170	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	32881	4.974	ug/l #	51
38) Carbon Tetrachloride	7.65	117	40543	6.293	ug/l #	17
59) 2-Hexanone	10.76	43	1299	0.263	ug/l #	49
71) Bromoform	12.40	173	731	0.238	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	140790	27.213	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	140790	72.895	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	416	0.316	ug/l #	39
93) 1,2,4-Trichlorobenzene	14.92	180	1777	0.390	ug/l	90
95) Naphthalene	15.13	128	7380	0.564	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	2207	0.496	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

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Instrument :

MSVOA_N

ClientSampled :

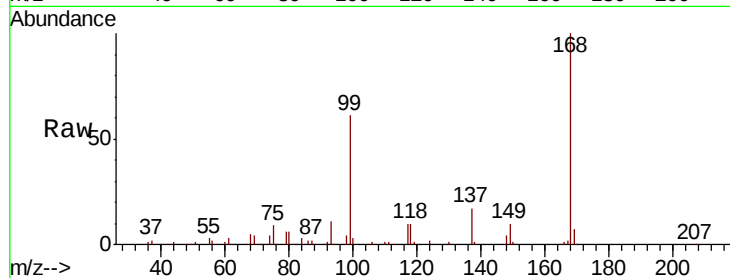
TP-9

Tot Ion:168 Resp: 391922

Ion Ratio Lower Upper

168 100

99 61.1 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

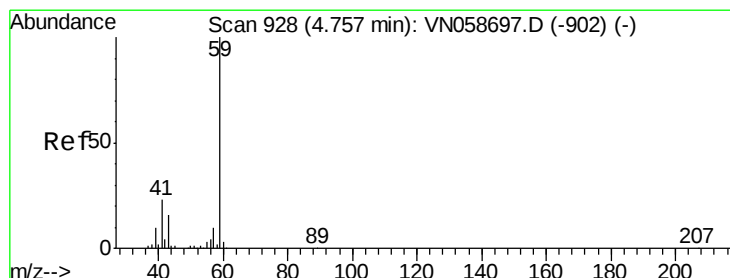
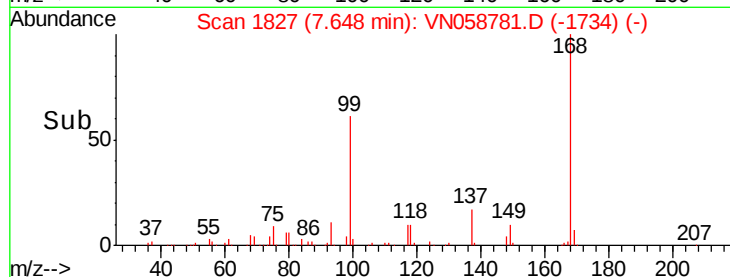
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.205 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.02 min

Lab File: VN058781.D

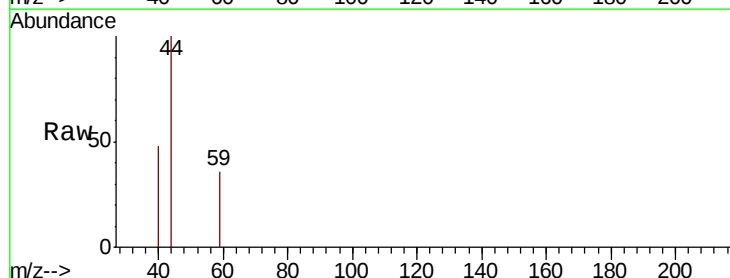
Acq: 15 Oct 2019 14:48

Tgt Ion: 59 Resp: 182

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

250

200

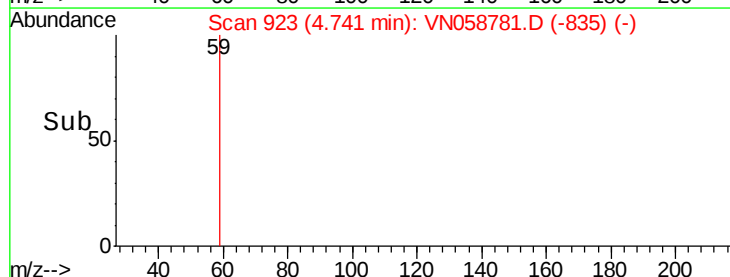
150

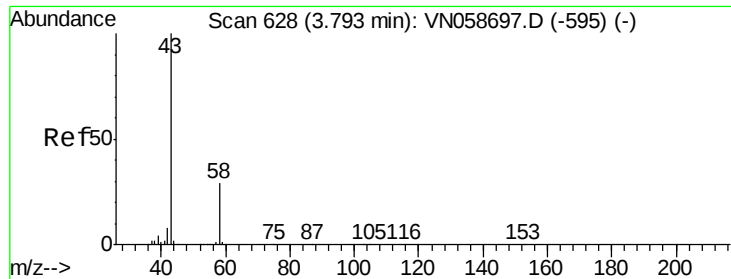
100

50

0

Time-->





#16

Acetone

Concen: 2.470 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058781.D

Acq: 15 Oct 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

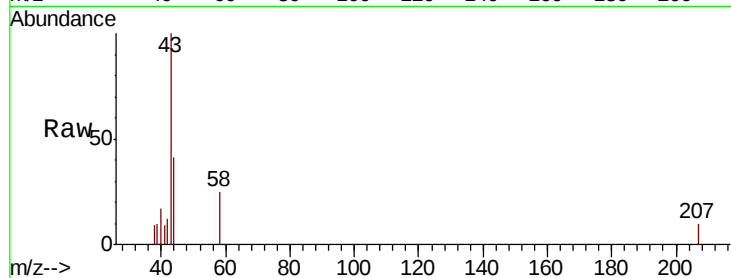
TP-9

Tot Ion: 43 Resp: 5611

Ion Ratio Lower Upper

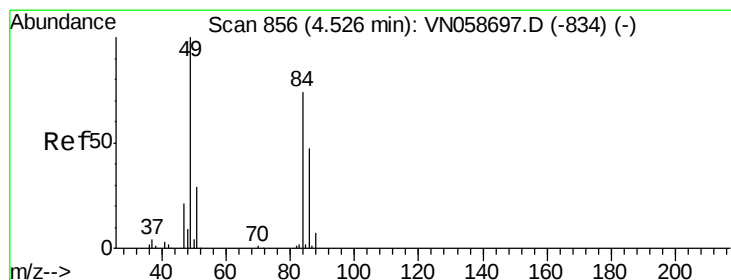
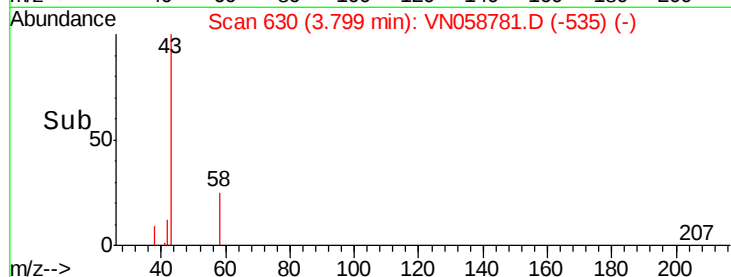
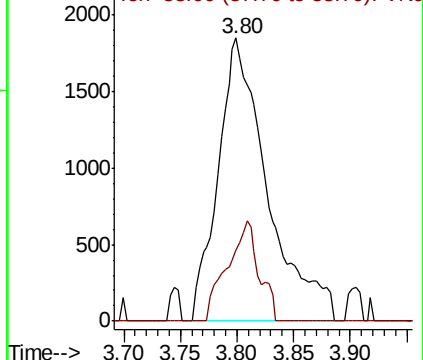
43 100

58 25.2 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#20

Methylene Chloride

Concen: 3.083 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058781.D

Acq: 15 Oct 2019 14:48

Tgt Ion: 84 Resp: 14636

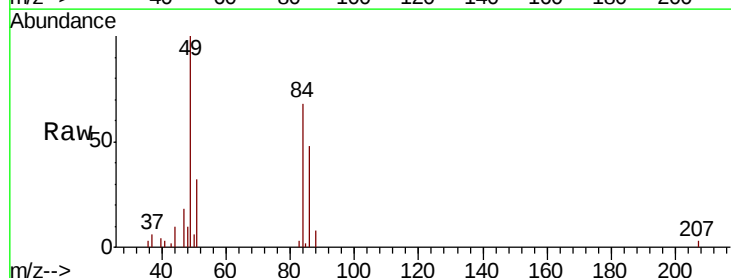
Ion Ratio Lower Upper

84 100

49 146.6 107.6 161.4

51 46.5 31.4 47.0

86 70.1 50.3 75.5

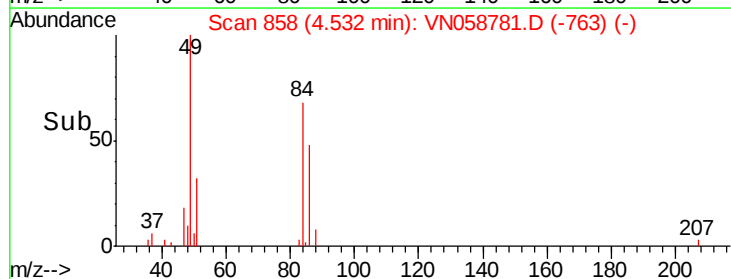
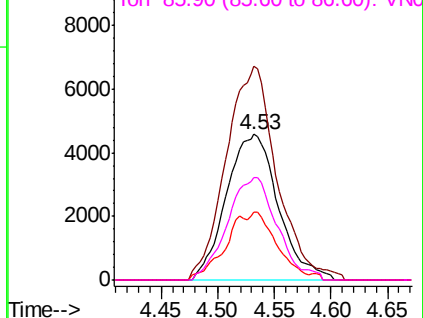


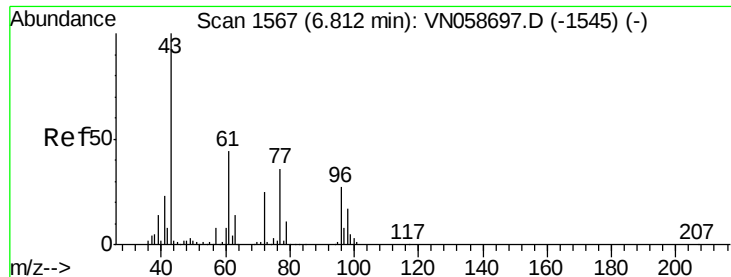
Abundance Ion 83.90 (83.60 to 84.60): VNO

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

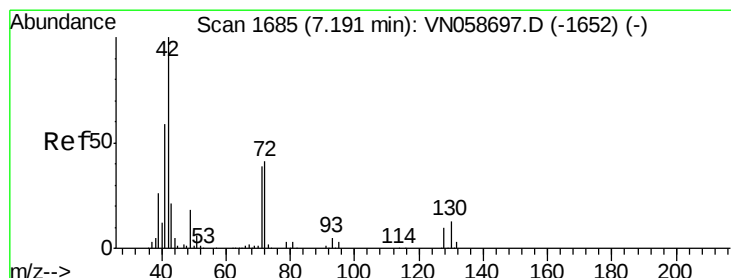
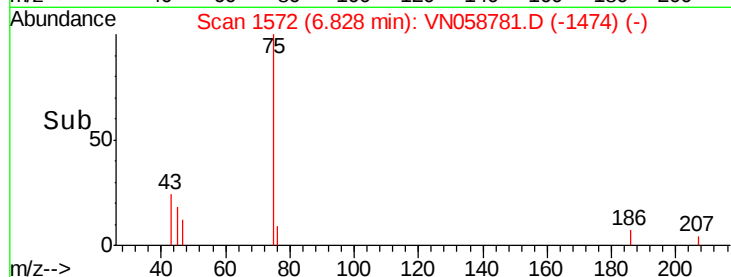
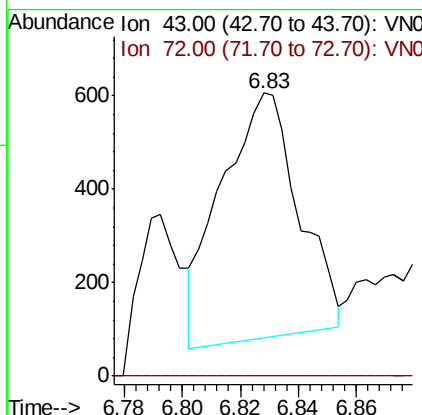
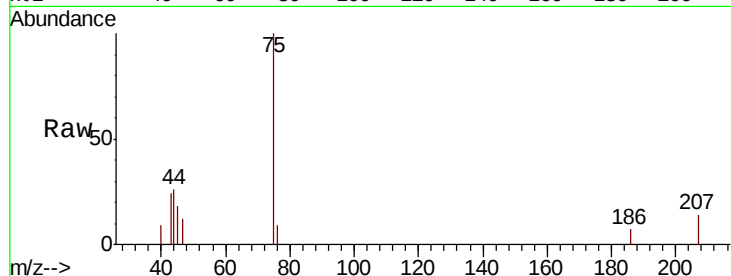




#25
2-Butanone
Concen: 0.298 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.02 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

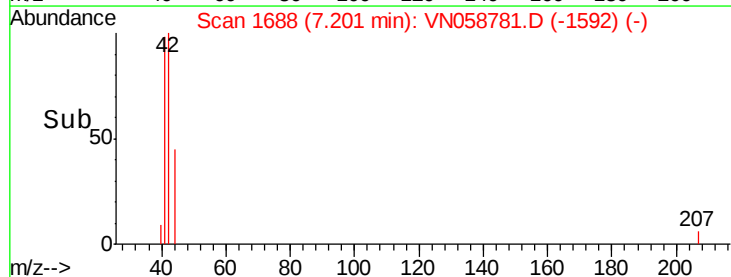
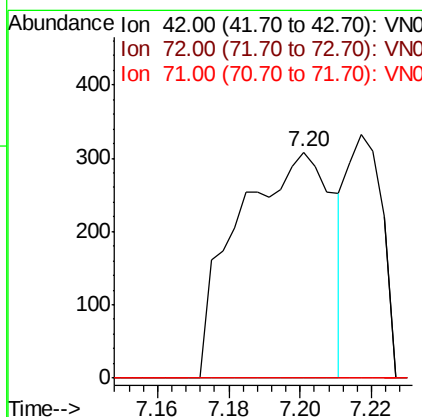
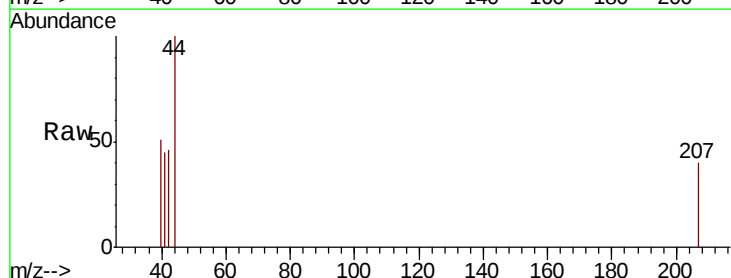
Instrument :
MSVOA_N
ClientSampled :
TP-9

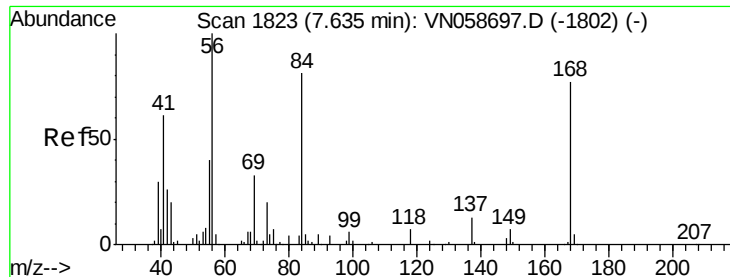
Tot Ion: 43 Resp: 978
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.267 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

Tgt Ion: 42 Resp: 567
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 31.1 46.7#

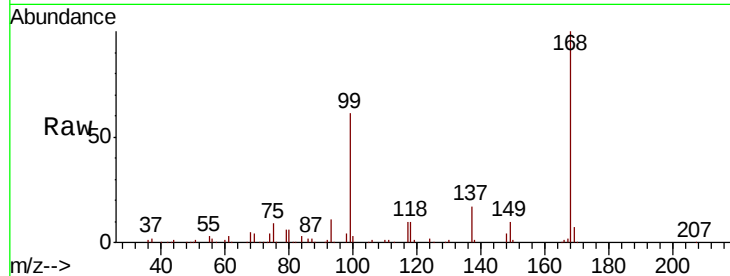




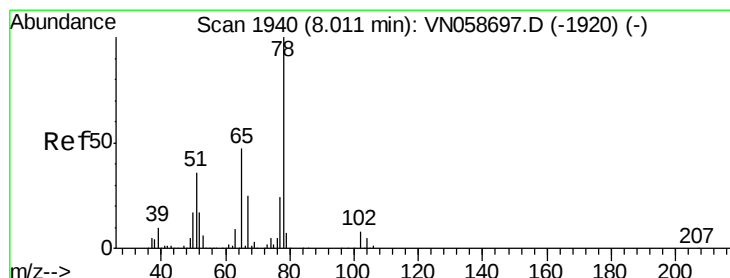
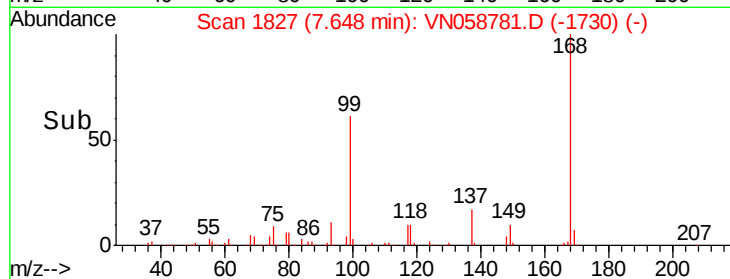
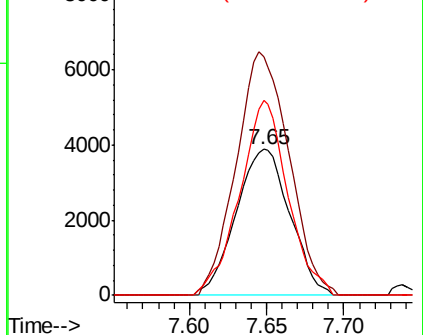
#31
Cyclohexane
Concen: 1.170 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion: 56 Resp: 9418
Ion Ratio Lower Upper
56 100
69 163.4 26.2 39.4#
84 133.4 64.9 97.3#

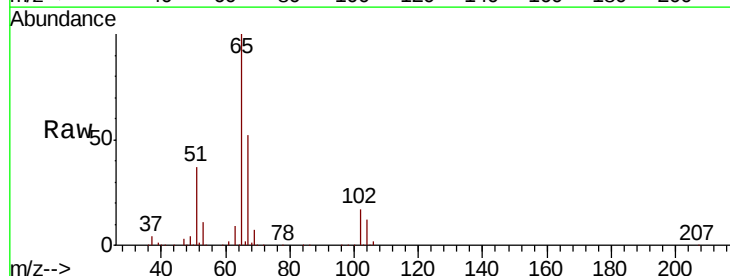


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

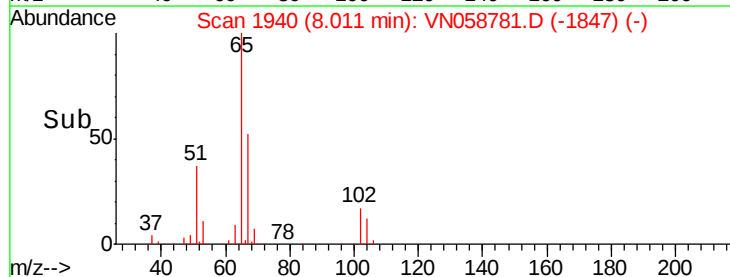
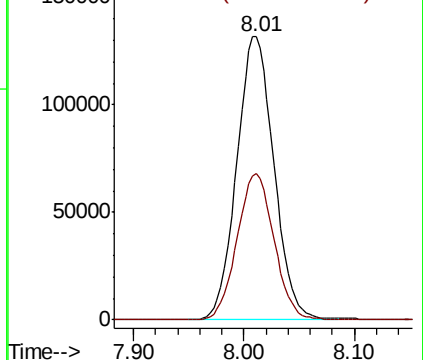


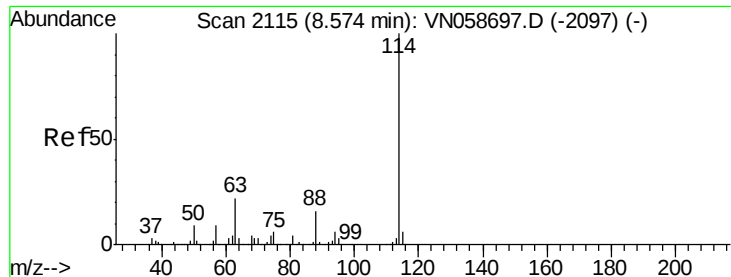
#33
1,2-Dichloroethane-d4
Concen: 56.049 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

Tgt Ion: 65 Resp: 307531
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

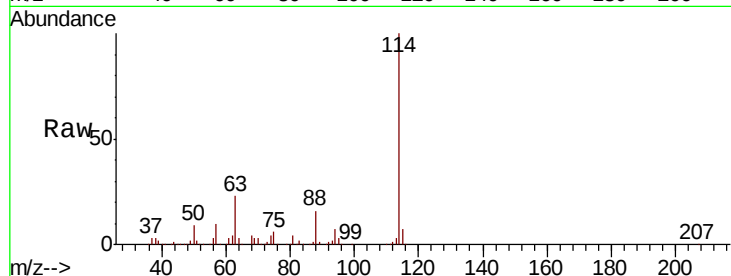




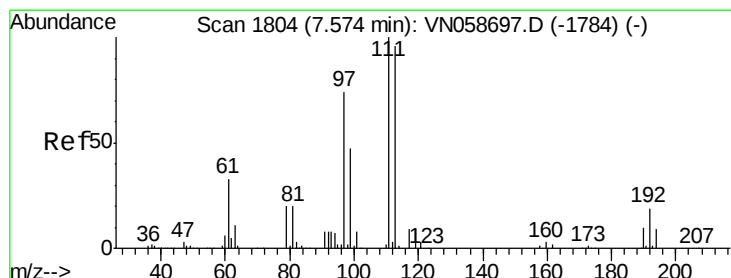
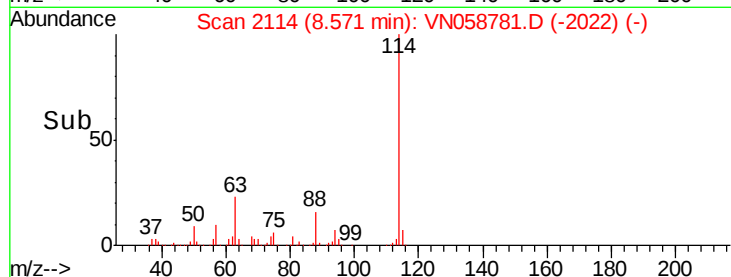
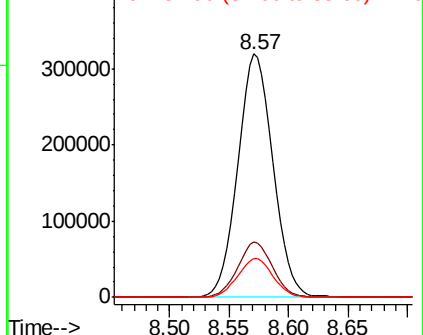
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058781.D
 Acq: 15 Oct 2019 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	43.8
88	16.0	0.0	32.0

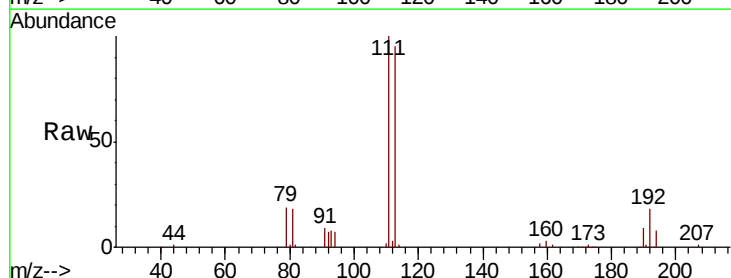


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

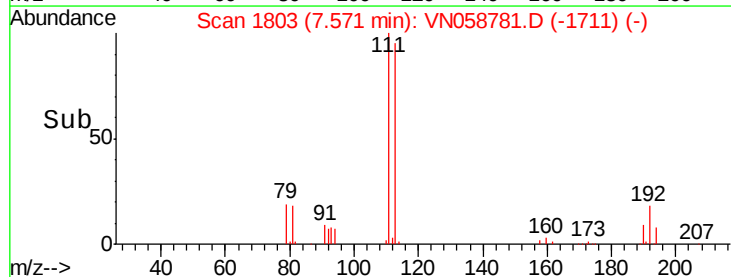
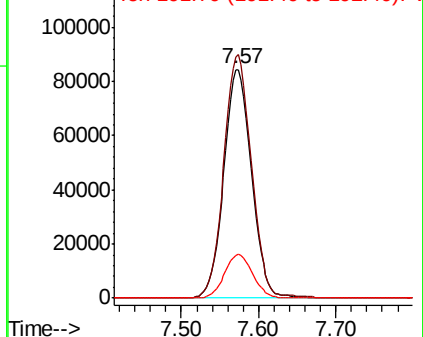


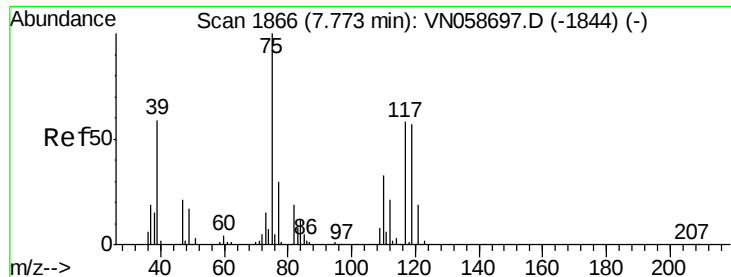
#35
 Dibromofluoromethane
 Concen: 51.947 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058781.D
 Acq: 15 Oct 2019 14:48

Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.1	82.3	123.5
192	19.4	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

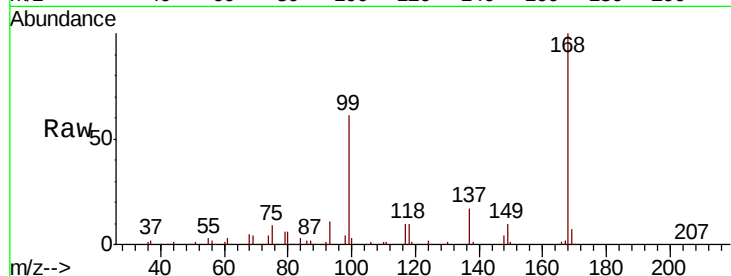




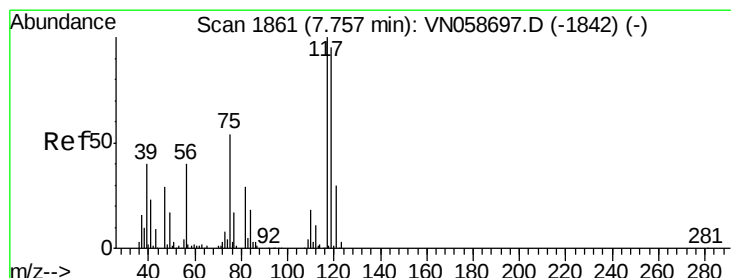
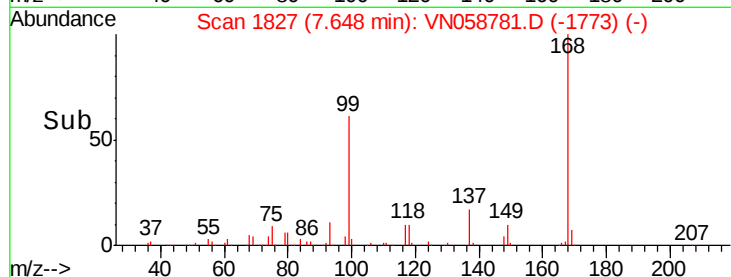
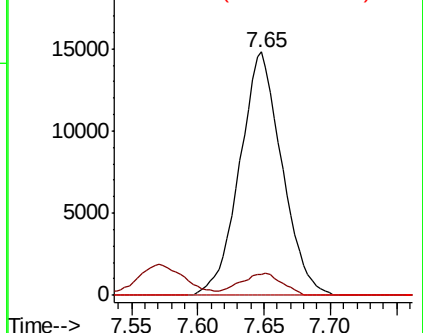
#36
 1,1-Dichloropropene
 Concen: 4.974 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058781.D
 Acq: 15 Oct 2019 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.6	49.8#
77	0.0	24.6	37.0#

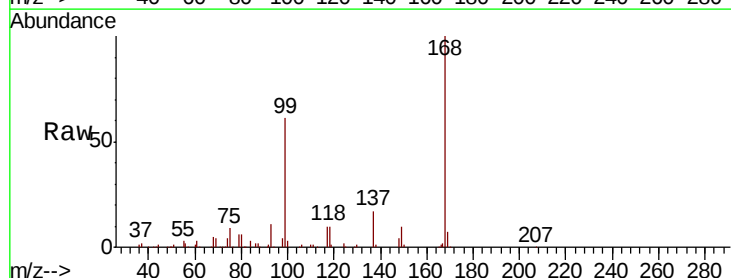


Abundance Ion 74.90 (74.60 to 75.60): VN058697.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN058697.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN058697.D (-1844) (-)

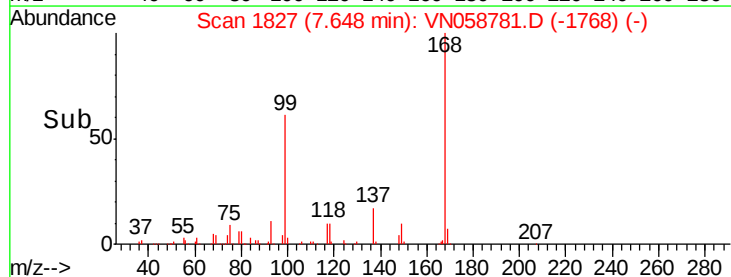
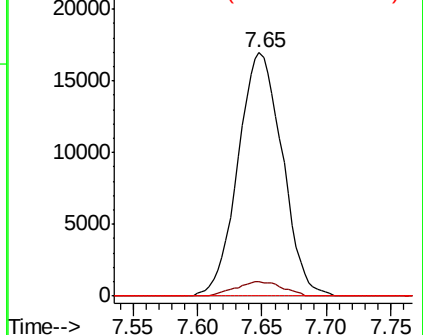


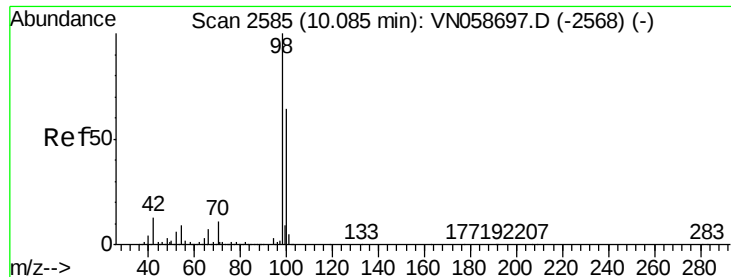
#38
 Carbon Tetrachloride
 Concen: 6.293 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058781.D
 Acq: 15 Oct 2019 14:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	75.7	113.5#
121	0.0	23.9	35.9#



Abundance Ion 116.80 (116.50 to 117.50): VN058697.D (-1842) (-)
 Ion 118.80 (118.50 to 119.50): VN058697.D (-1842) (-)
 Ion 120.80 (120.50 to 121.50): VN058697.D (-1842) (-)

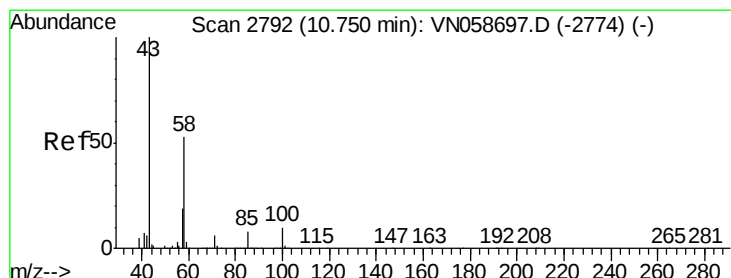
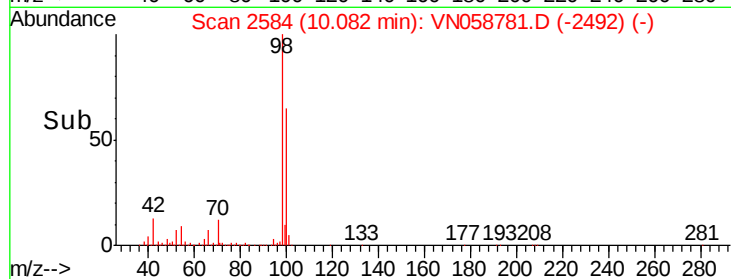
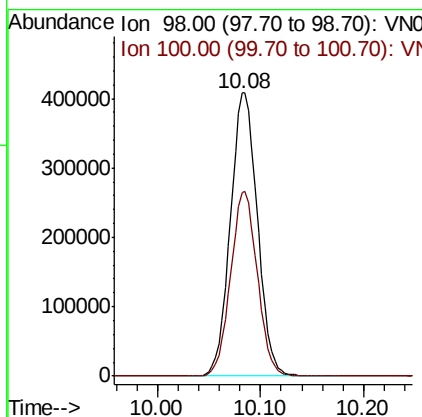
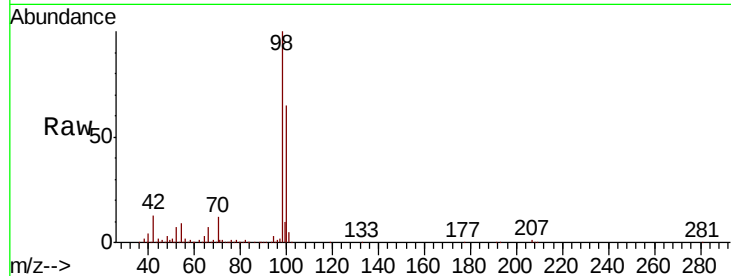




#50
Toluene-d8
Concen: 46.275 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

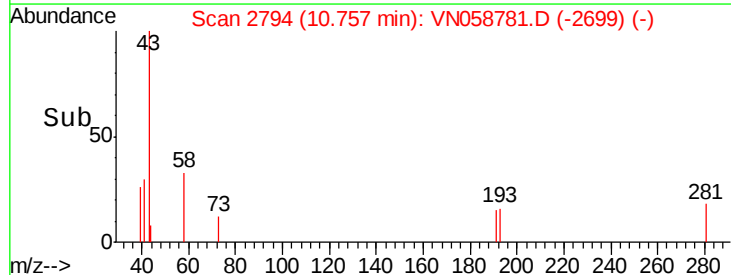
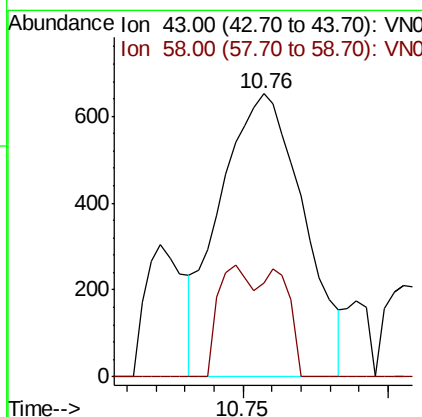
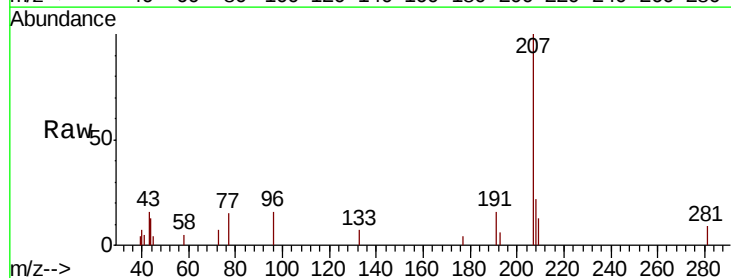
Instrument :
MSVOA_N
ClientSampled :
TP-9

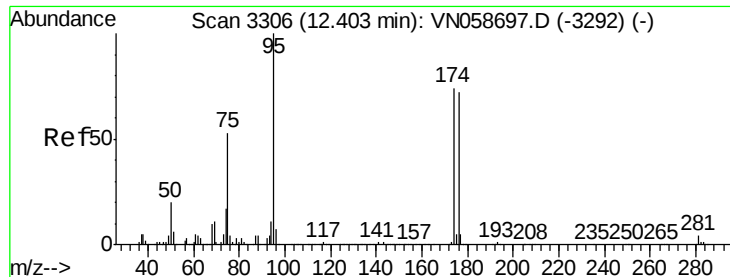
Tot Ion: 98 Resp: 747351
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7



#59
2-Hexanone
Concen: 0.263 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

Tgt Ion: 43 Resp: 1299
Ion Ratio Lower Upper
43 100
58 16.4 26.1 78.3#

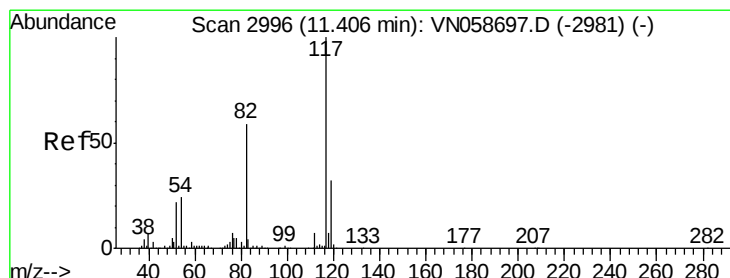
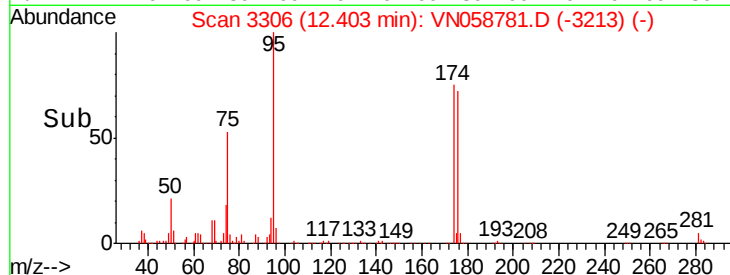
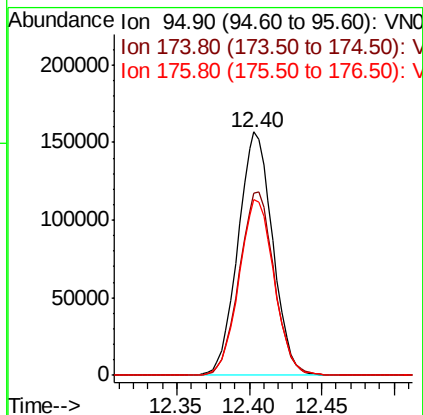
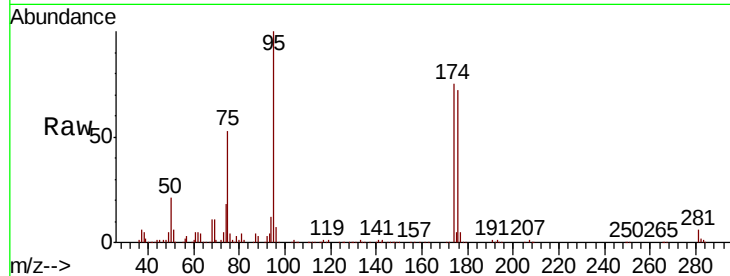




#62
4-Bromofluorobenzene
Concen: 42.619 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

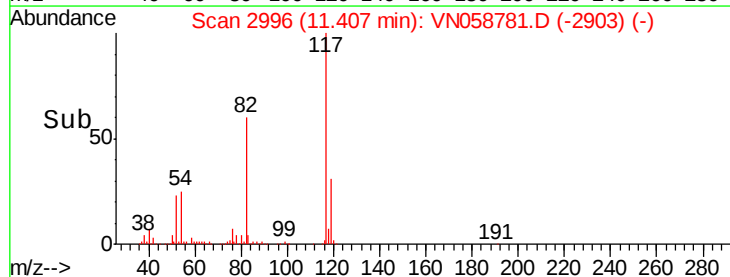
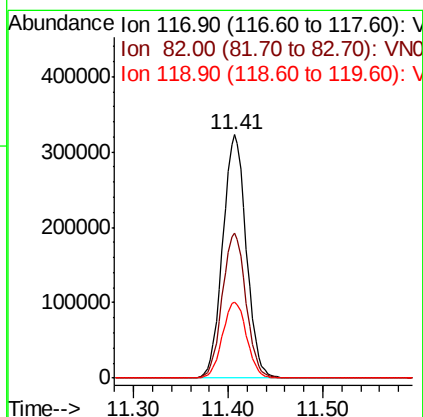
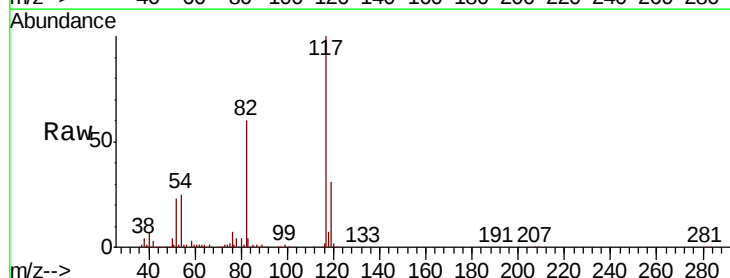
Instrument :
MSVOA_N
ClientSampleId :
TP-9

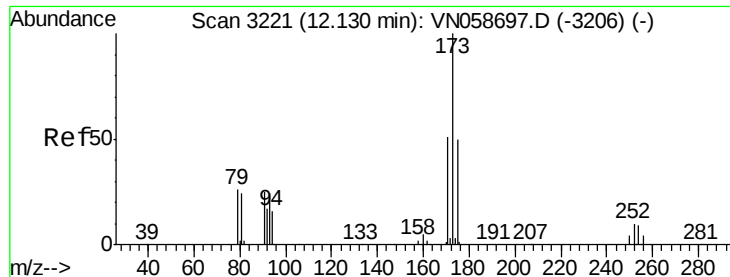
Tot Ion: 95 Resp: 260546
Ion Ratio Lower Upper
95 100
174 75.9 0.0 150.4
176 73.6 0.0 146.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

Tgt Ion: 117 Resp: 559073
Ion Ratio Lower Upper
117 100
82 59.7 47.0 70.4
119 31.4 25.4 38.2





#71

Bromoform

Concen: 0.238 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058781.D

Acq: 15 Oct 2019 14:48

Instrument :

MSVOA_N

ClientSampled :

TP-9

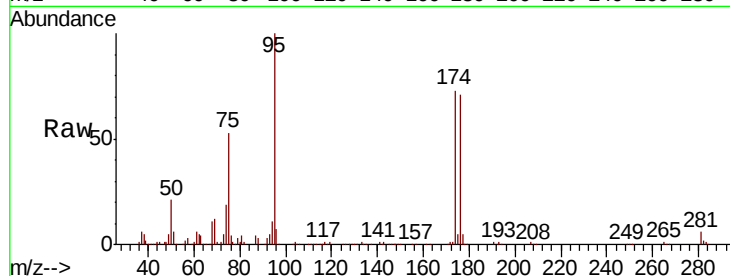
Tot Ion:173 Resp: 731

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.8#

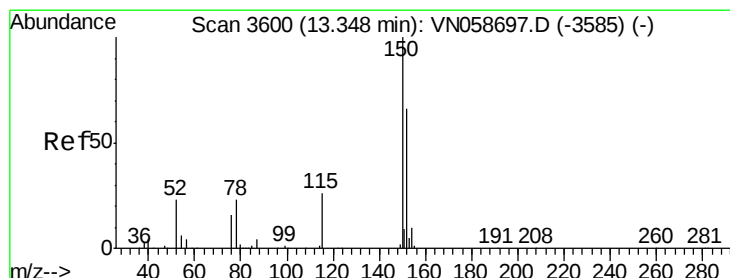
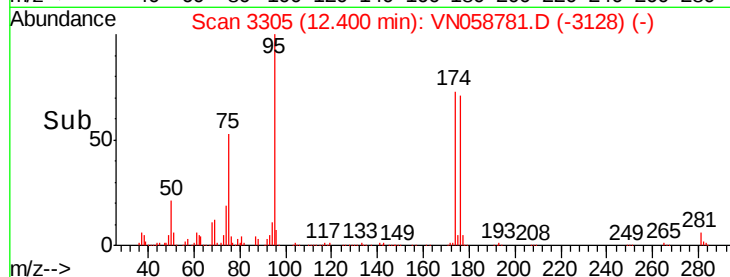
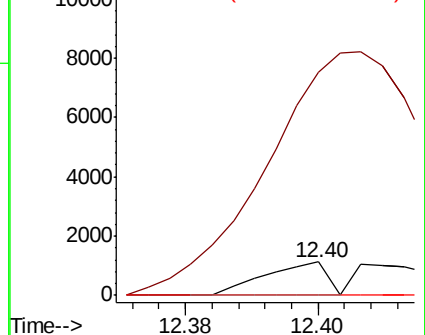
254 0.0 0.1 0.1#



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: VN058781.D

Acq: 15 Oct 2019 14:48

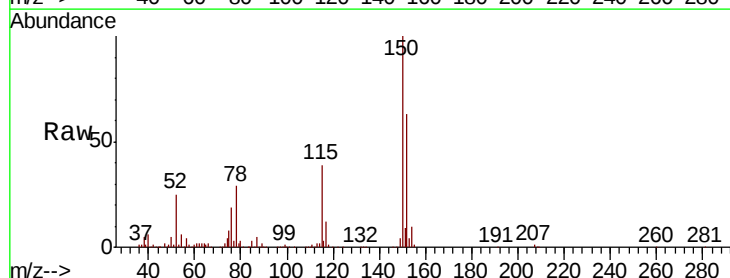
Tgt Ion:152 Resp: 235833

Ion Ratio Lower Upper

152 100

115 61.9 30.4 91.2

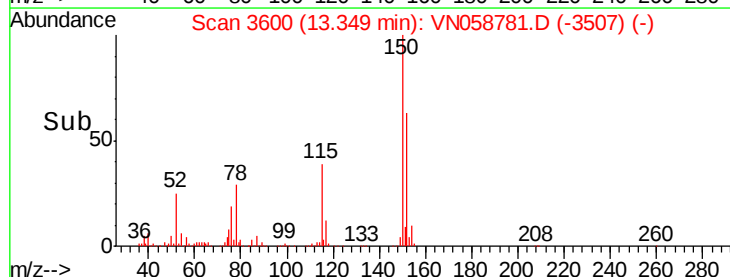
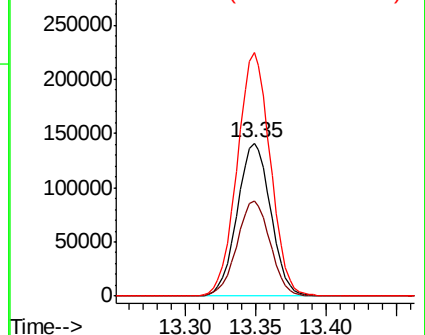
150 157.1 0.0 345.4

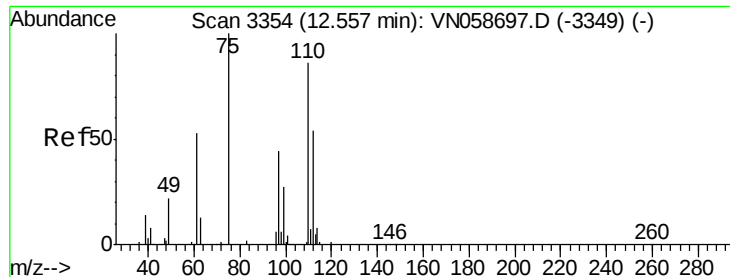


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.213 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058781.D

Acq: 15 Oct 2019 14:48

Instrument :

MSVOA_N

ClientSampled :

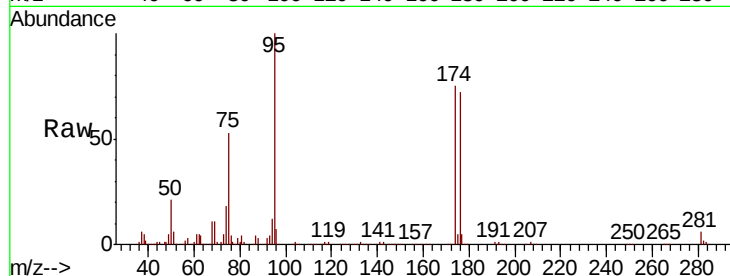
TP-9

Tot Ion: 75 Resp: 140790

Ion Ratio Lower Upper

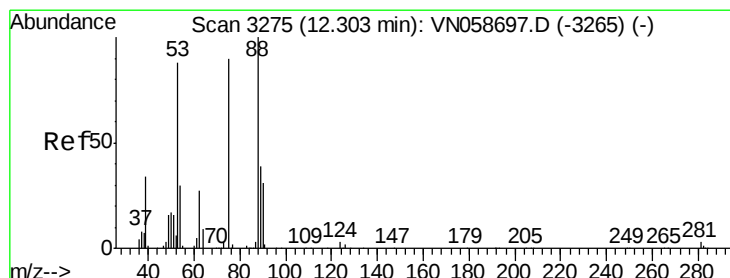
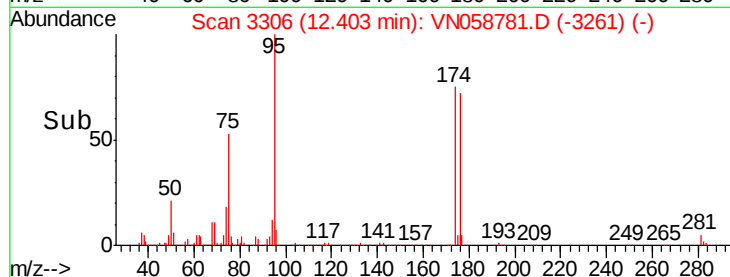
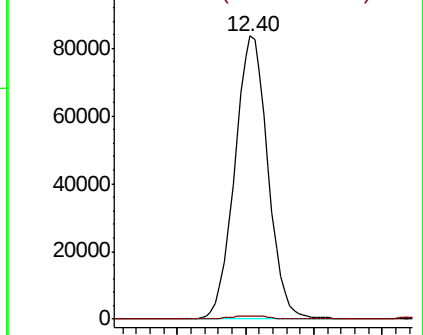
75 100

77 1.5 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: 72.895 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058781.D

Acq: 15 Oct 2019 14:48

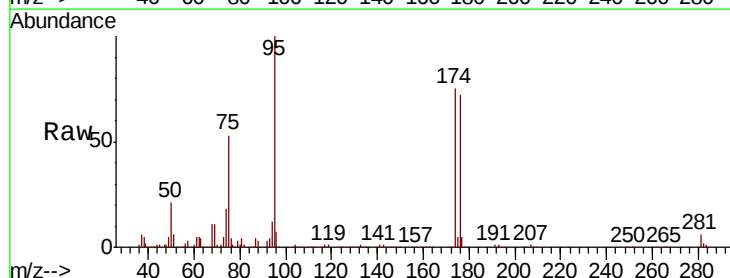
Tgt Ion: 75 Resp: 140790

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

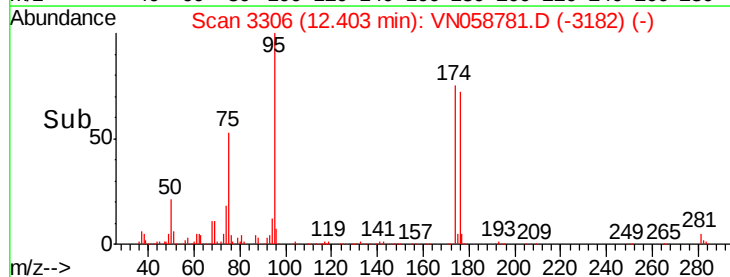
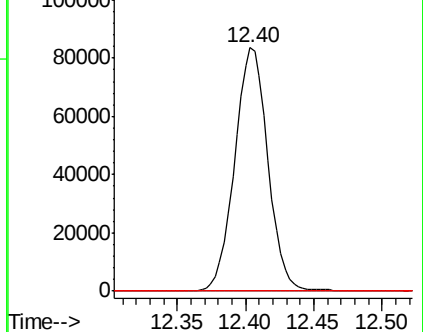
89 0.0 34.9 52.3#

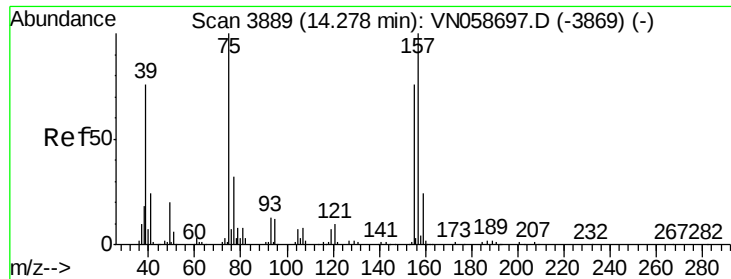


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

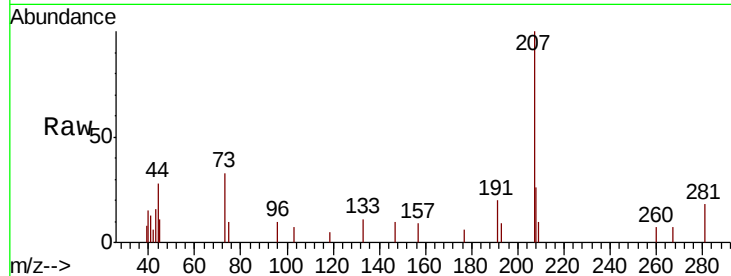




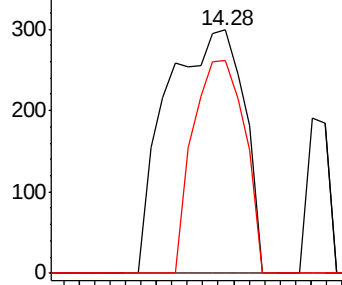
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.316 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058781.D
 Acq: 15 Oct 2019 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-9

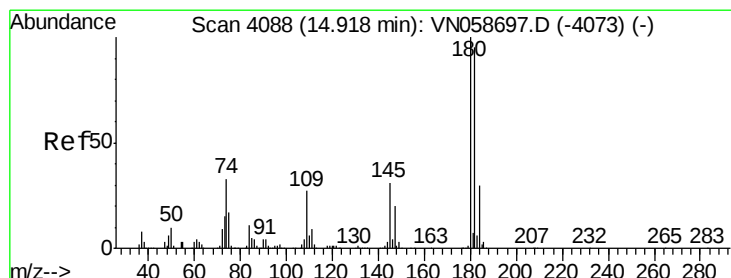
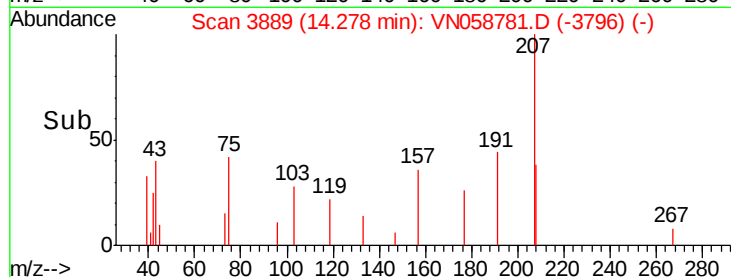
Tot Ion: 75 Resp: 416
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.9 113.6#
 157 58.4 49.4 148.2



Abundance Ion 74.90 (74.60 to 75.60): VN058781.D (-3796) (-)
 Ion 154.80 (154.50 to 155.50): VN058781.D (-3796) (-)
 Ion 156.80 (156.50 to 157.50): VN058781.D (-3796) (-)

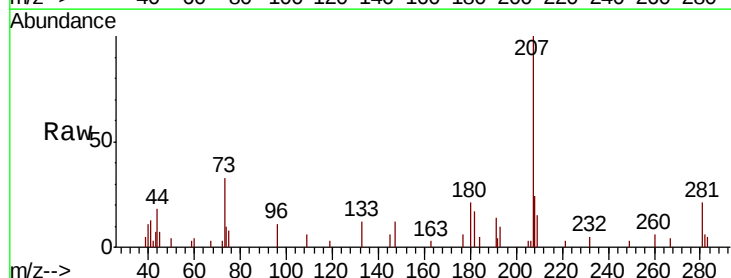


Time-->

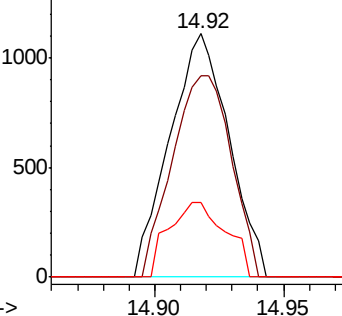


#93
 1,2,4-Trichlorobenzene
 Concen: 0.390 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058781.D
 Acq: 15 Oct 2019 14:48

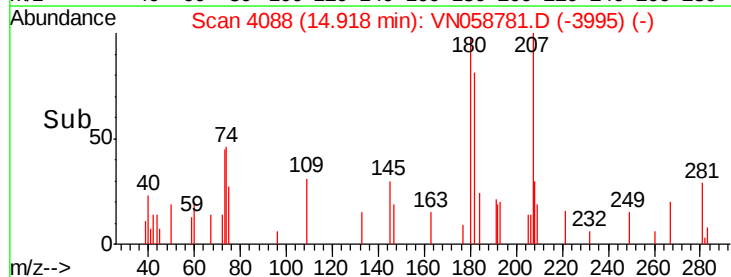
Tgt Ion: 180 Resp: 1777
 Ion Ratio Lower Upper
 180 100
 182 82.6 47.4 142.2
 145 29.6 15.4 46.2

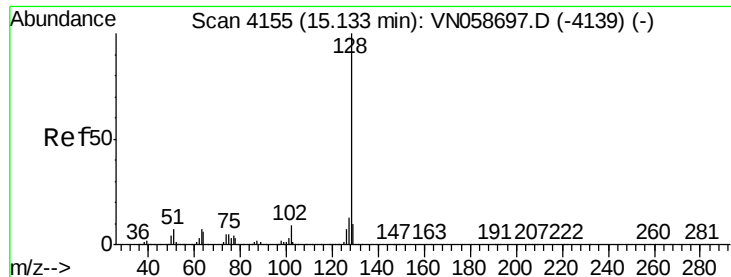


Abundance Ion 179.80 (179.50 to 180.50): VN058781.D (-3995) (-)
 Ion 181.80 (181.50 to 182.50): VN058781.D (-3995) (-)
 Ion 144.80 (144.50 to 145.50): VN058781.D (-3995) (-)



Time-->

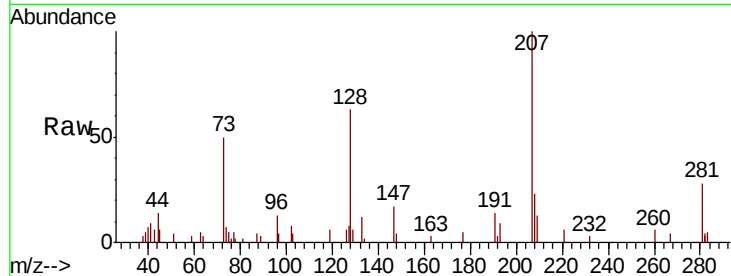




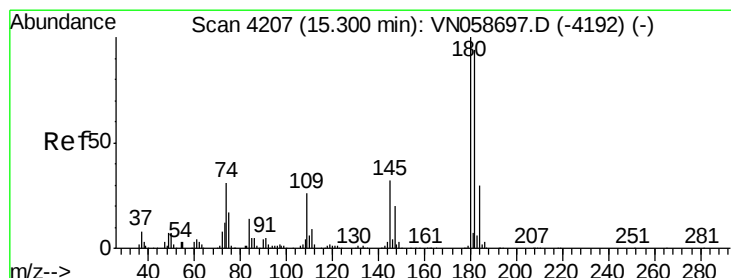
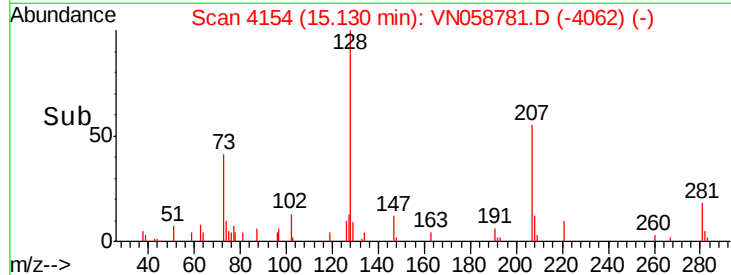
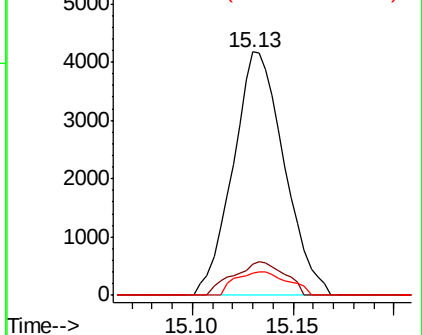
#95
Naphthalene
Concen: 0.564 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

Instrument :
MSVOA_N
ClientSampled :
TP-9

Tot Ion:128 Resp: 7380
Ion Ratio Lower Upper
128 100
127 14.0 10.2 15.4
129 10.0 8.5 12.7

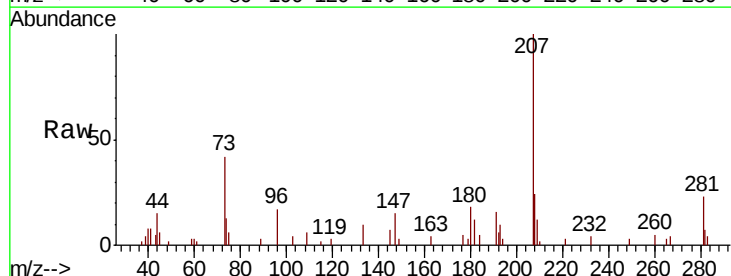


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.496 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. 0.00 min
Lab File: VN058781.D
Acq: 15 Oct 2019 14:48

Tgt Ion:180 Resp: 2207
Ion Ratio Lower Upper
180 100
182 88.2 47.3 142.0
145 31.4 16.2 48.6



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

