

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058210.D
 Acq On : 19 Sep 2019 17:47
 Operator : JC/SP
 Sample : K4896-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 04:23:07 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	509777	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	832684	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	711044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	284011	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	365177	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	
35) Dibromofluoromethane	7.58	113	251885	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
50) Toluene-d8	10.08	98	1037902	52.62	ug/l	0.00
Spiked Amount			Recovery	=	105.24%	
62) 4-Bromofluorobenzene	12.40	95	328826	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	

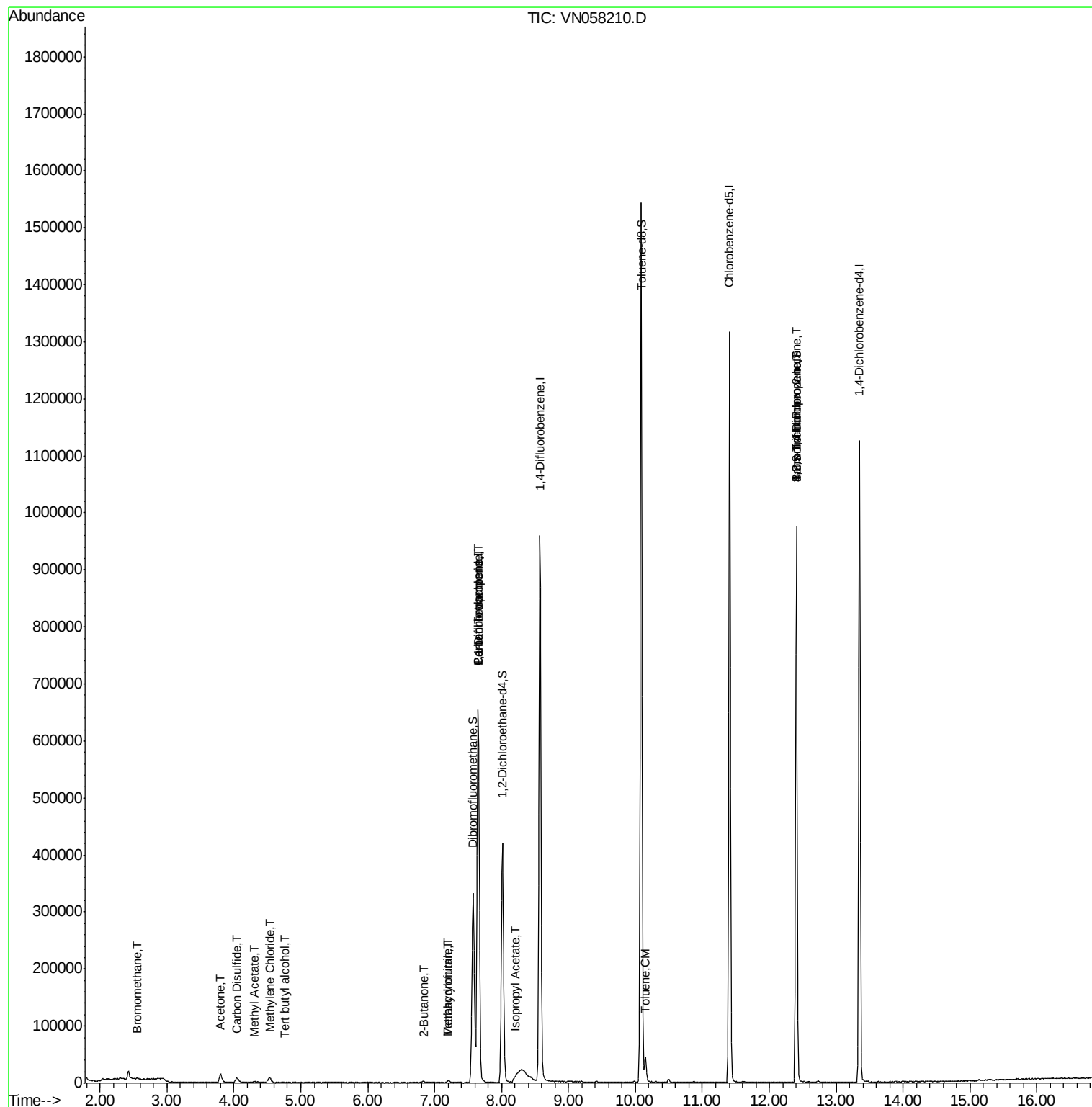
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1318	Below Cal		94
5) Bromomethane	2.56	94	389	0.928 ug/l		82
6) Chloroethane	2.56	64	29	Below Cal	#	44
11) Tert butyl alcohol	4.76	59	273	0.323 ug/l	#	71
16) Acetone	3.80	43	25340	10.514 ug/l		97
17) Carbon Disulfide	4.04	76	98	0.293 ug/l	#	74
18) Methyl Acetate	4.31	43	1538	0.243 ug/l	#	58
20) Methylene Chloride	4.53	84	6550	1.336 ug/l		85
25) 2-Butanone	6.84	43	3452	1.051 ug/l		91
29) Tetrahydrofuran	7.20	42	2539	1.255 ug/l	#	89
31) Cyclohexane	7.65	56	13331	Below Cal	#	29
36) 1,1-Dichloropropene	7.65	75	44859	7.470 ug/l	#	50
38) Carbon Tetrachloride	7.65	117	52467	8.692 ug/l	#	14
41) Methacrylonitrile	7.19	41	2178	1.592 ug/l	#	100
43) Isopropyl Acetate	8.20	43	7010	0.602 ug/l	#	57
52) Toluene	10.15	92	16860	1.467 ug/l		97
71) Bromoform	12.40	173	623	3.767 ug/l	#	1
76) 1,2,3-Trichloropropane	12.41	75	179476	35.310 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.41	75	179476	98.723 ug/l	#	5

(#) = 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: VN058210.D

Acq: 19 Sep 2019 17:47

Instrument :

MSVOA_N

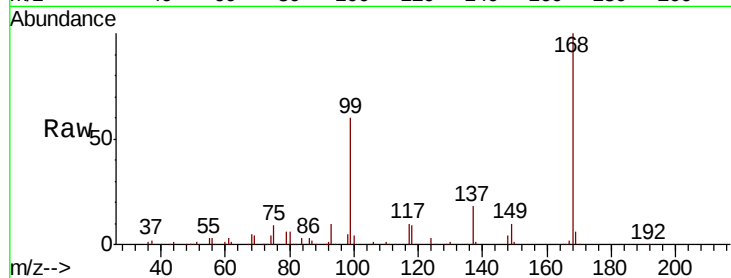
ClientSampleId :

Tot Ion:168 Resp: 509777

Ion Ratio Lower Upper

168 100

99 60.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN058155.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058155.D (-1808) (-)

7.65

250000

200000

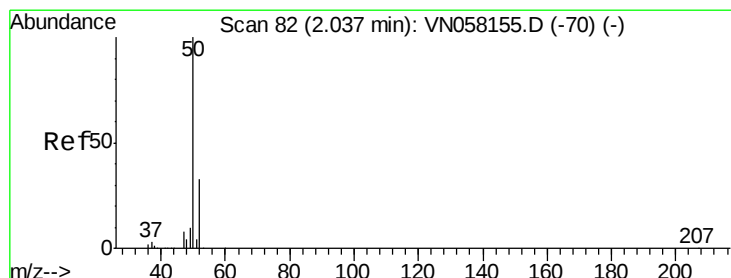
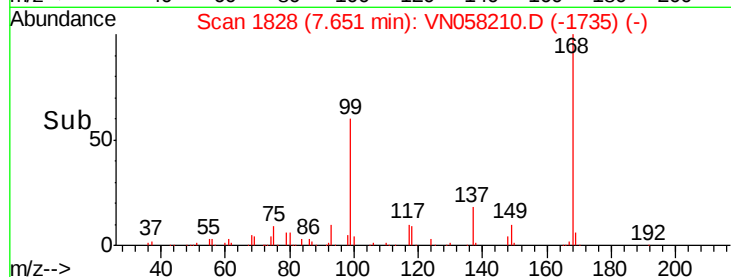
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058210.D

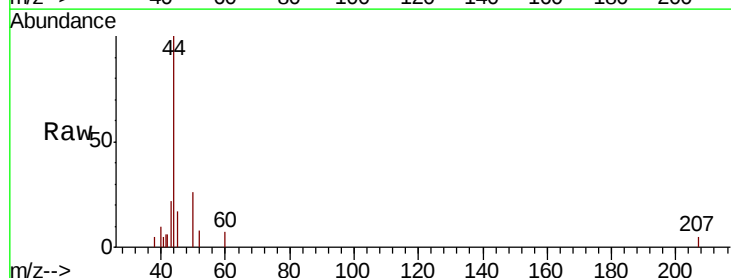
Acq: 19 Sep 2019 17:47

Tgt Ion: 50 Resp: 1318

Ion Ratio Lower Upper

50 100

52 29.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN058155.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN058155.D (-70) (-)

2.04

1000

800

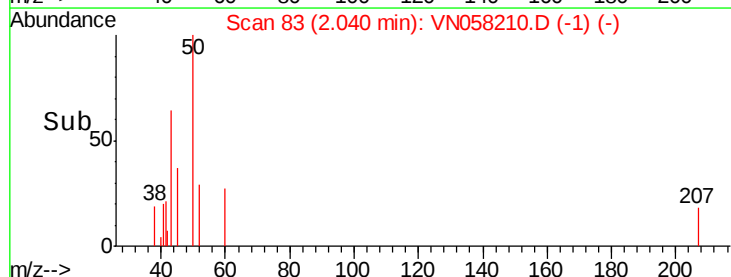
600

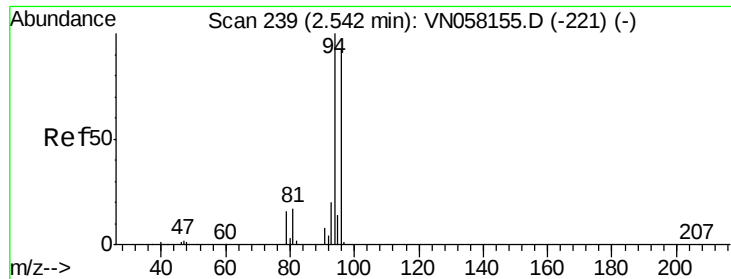
400

200

0

Time-->





#5

Bromomethane

Concen: 0.928 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.02 min

Lab File: VN058210.D

Acq: 19 Sep 2019 17:47

Instrument :

MSVOA_N

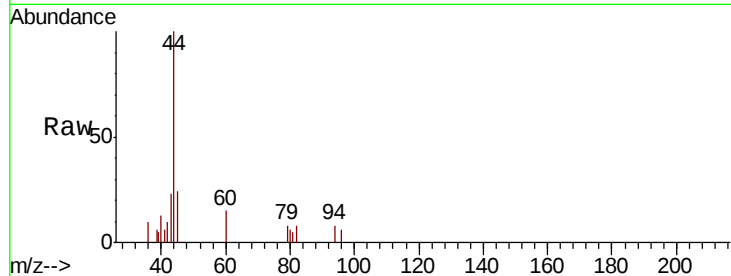
ClientSampled :

Tot Ion: 94 Resp: 389

Ion Ratio Lower Upper

94 100

96 74.3 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

250

200

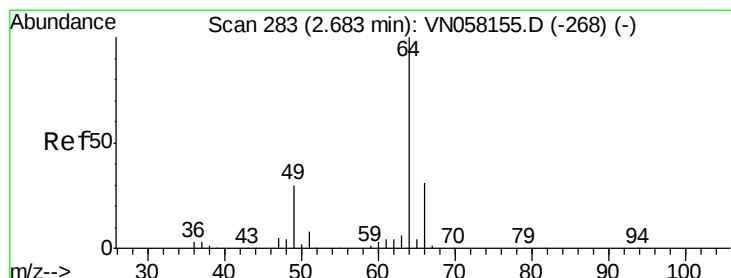
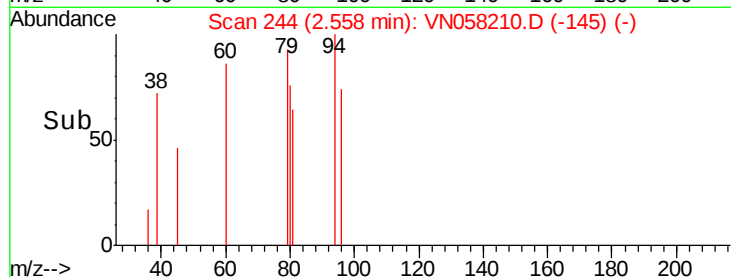
150

100

50

0

Time--> 2.52 2.54 2.56 2.58



#6

Chloroethane

Concen: Below Cal

RT: 2.56 min Scan# 245

Delta R.T. -0.12 min

Lab File: VN058210.D

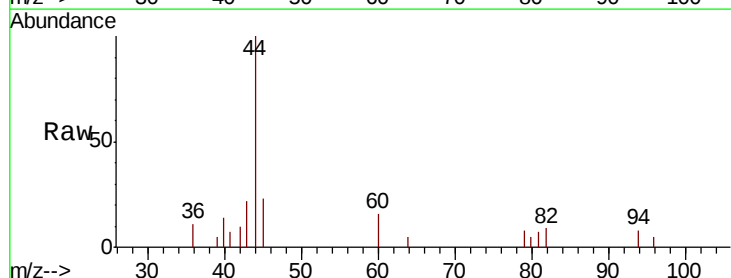
Acq: 19 Sep 2019 17:47

Tgt Ion: 64 Resp: 29

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

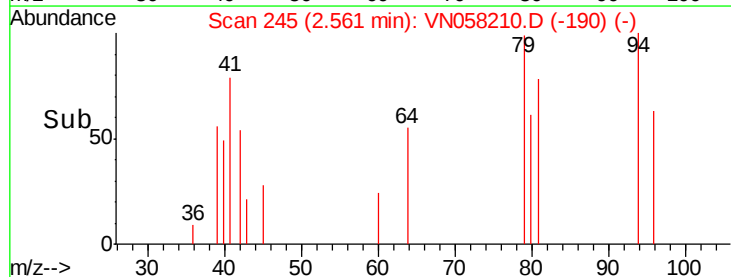
150

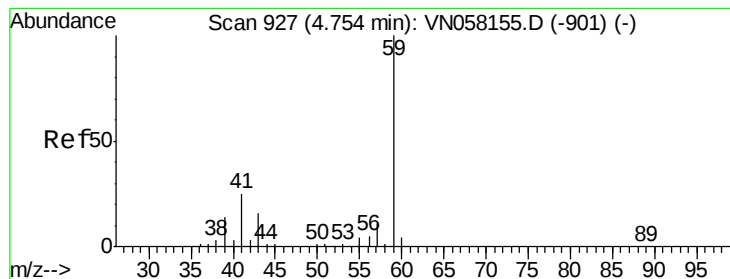
100

50

0

Time--> 2.55 2.56 2.56 2.57



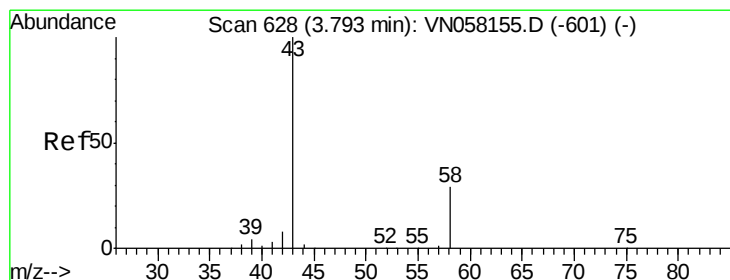
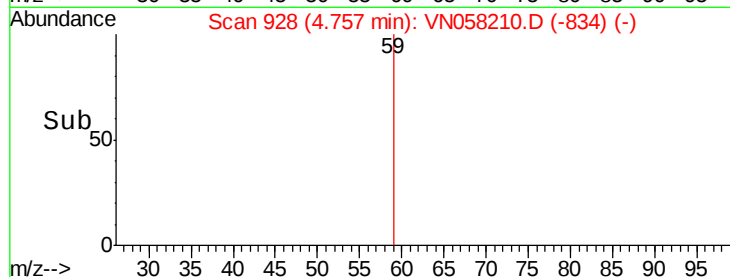
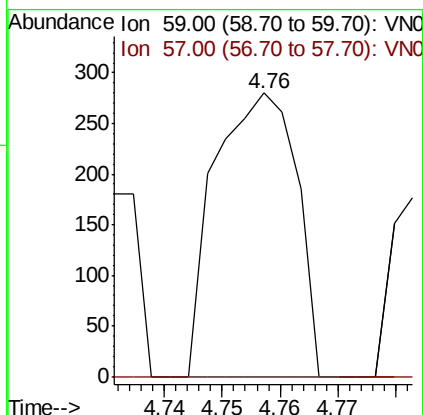
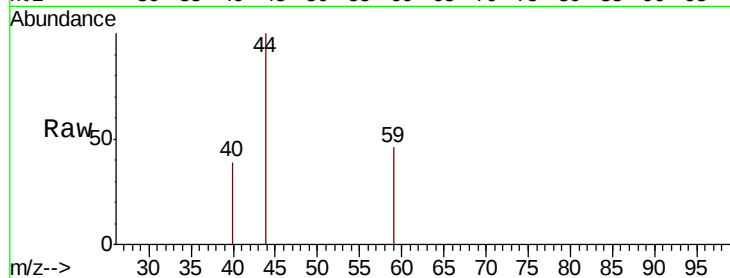


#11

Tert butyl alcohol
 Concen: 0.323 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: VN058210.D
 Acq: 19 Sep 2019 17:47

Instrument :
 MSVOA_N
 ClientSampled :

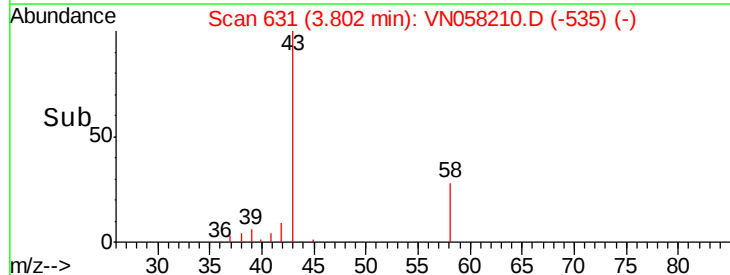
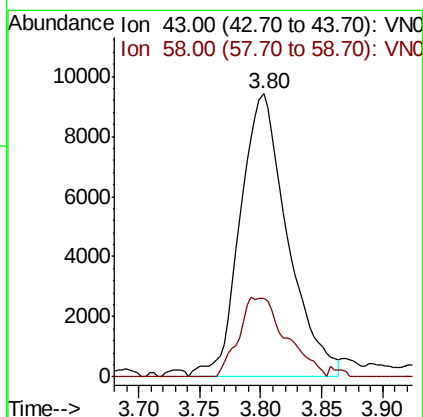
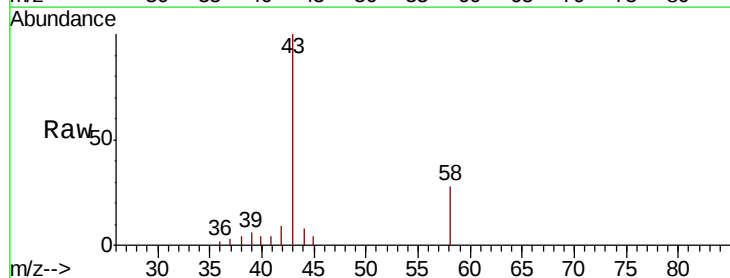
Tot Ion: 59 Resp: 273
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#

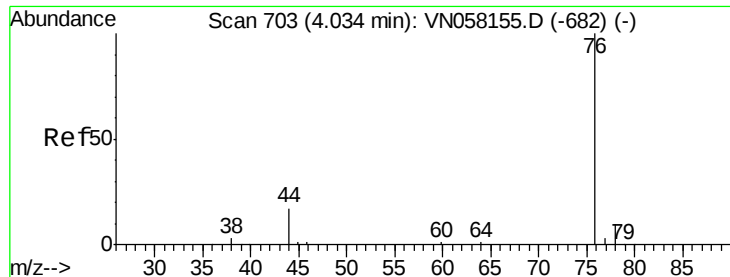


#16

Acetone
 Concen: 10.514 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN058210.D
 Acq: 19 Sep 2019 17:47

Tgt Ion: 43 Resp: 25340
 Ion Ratio Lower Upper
 43 100
 58 27.8 23.4 35.2





#17

Carbon Disulfide

Concen: 0.293 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.01 min

Lab File: VN058210.D

Acq: 19 Sep 2019 17:47

Instrument :

MSVOA_N

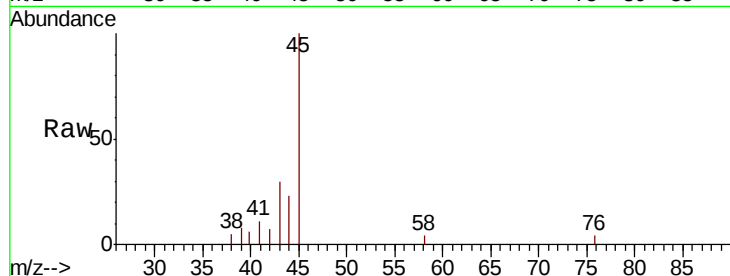
ClientSampled :

Tot Ion: 76 Resp: 98

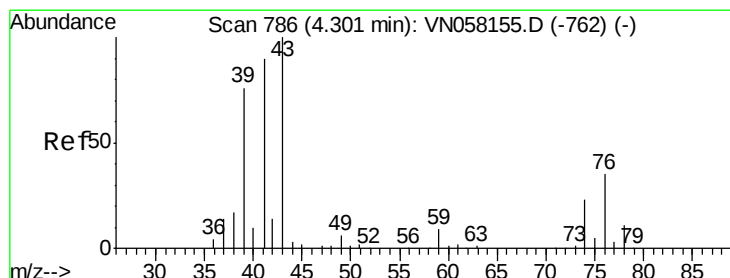
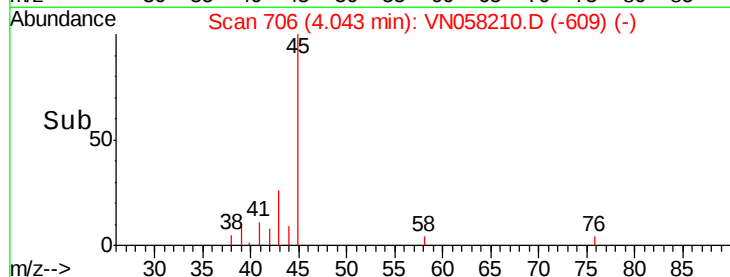
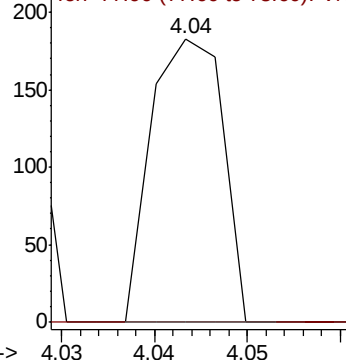
Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 0.243 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058210.D

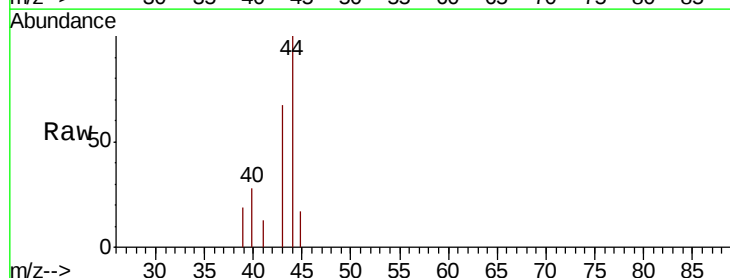
Acq: 19 Sep 2019 17:47

Tgt Ion: 43 Resp: 1538

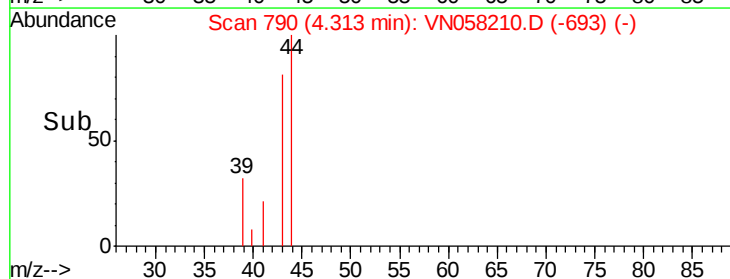
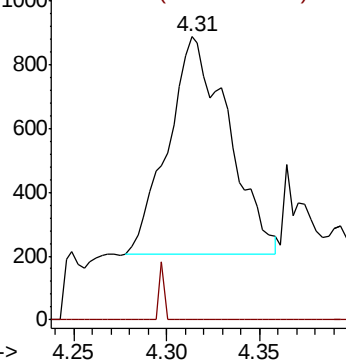
Ion Ratio Lower Upper

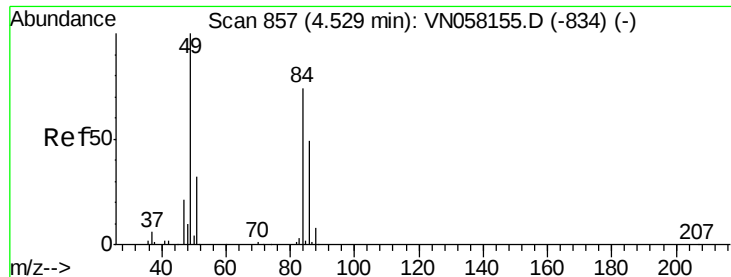
43 100

74 2.3 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO

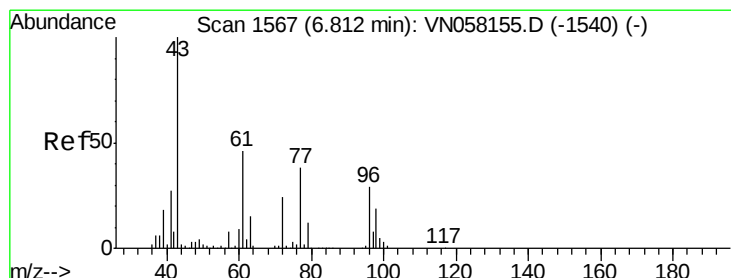
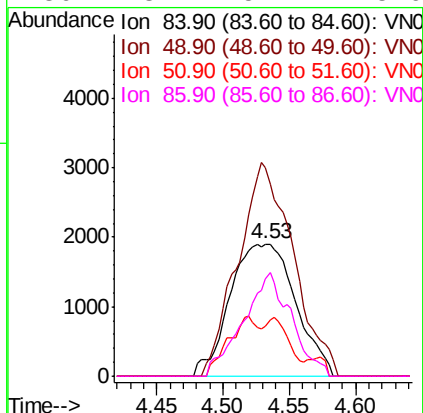
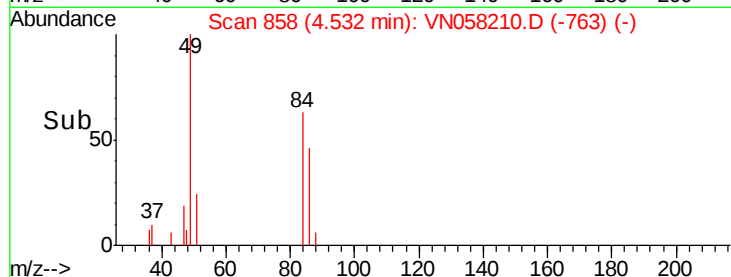
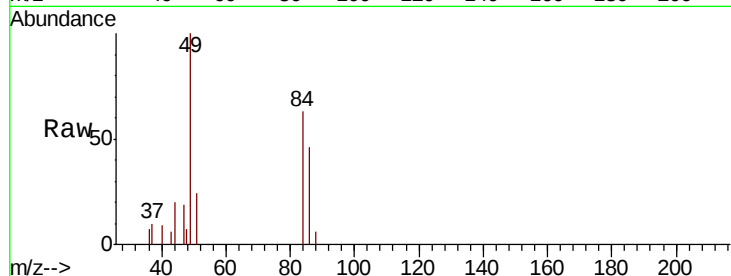




#20
Methvlene Chloride
Concen: 1.336 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

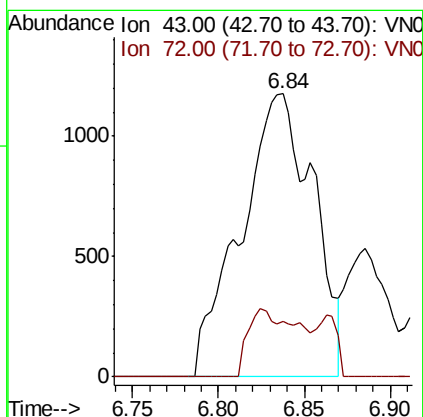
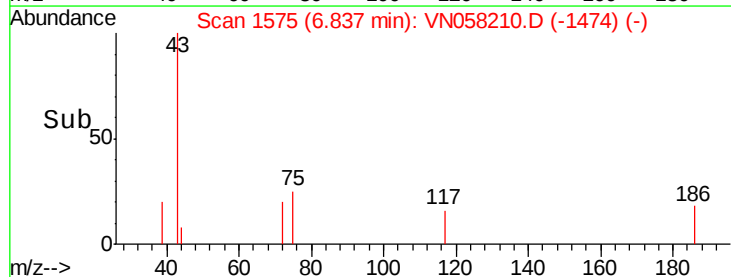
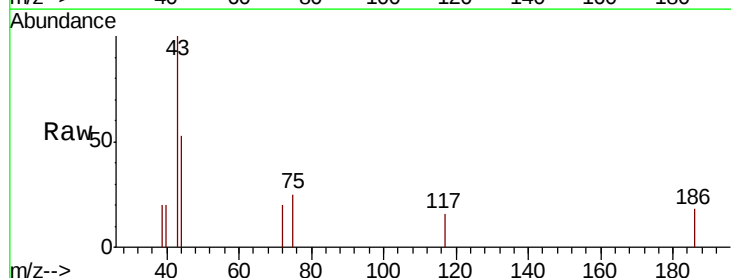
Instrument :
MSVOA_N
ClientSampleId :

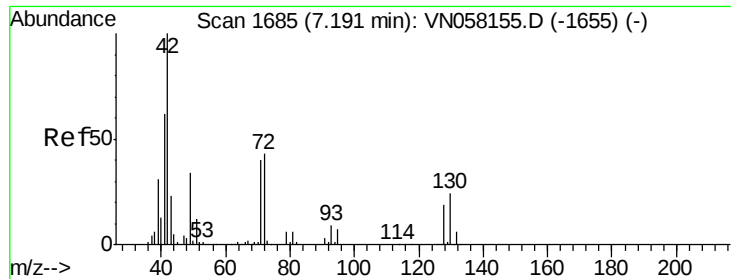
Tot Ion: 84 Resp: 6550
Ion Ratio Lower Upper
84 100
49 157.8 107.5 161.3
51 38.2 33.9 50.9
86 73.2 52.4 78.6



#25
2-Butanone
Concen: 1.051 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.03 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

Tgt Ion: 43 Resp: 3452
Ion Ratio Lower Upper
43 100
72 19.8 19.5 29.3

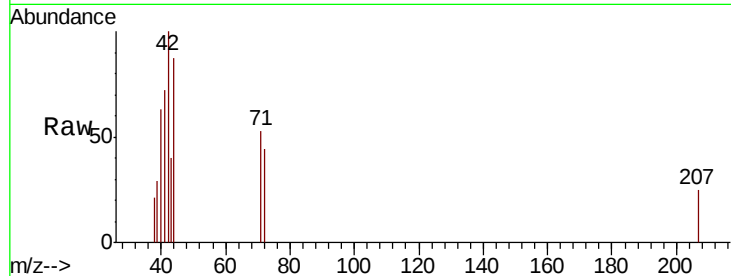




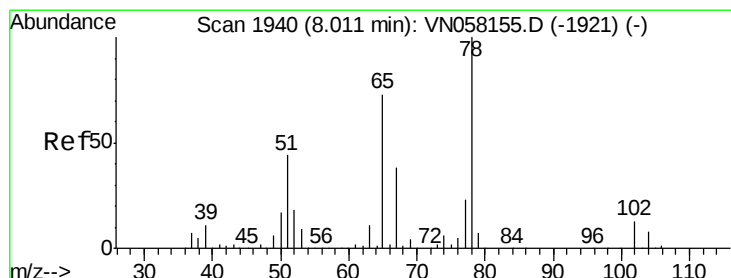
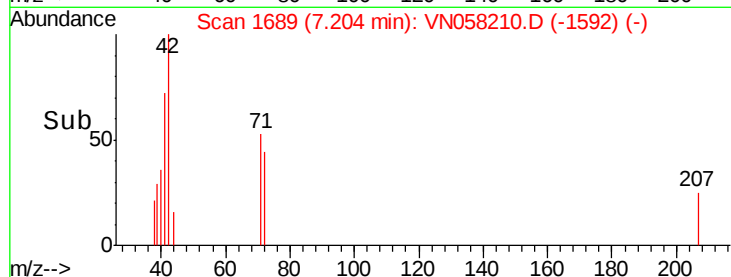
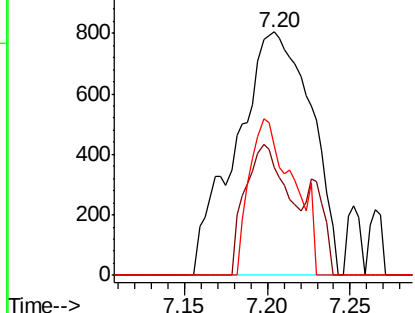
#29
Tetrahydrofuran
Concen: 1.255 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 2539
Ion Ratio Lower Upper
42 100
72 30.7 33.8 50.6#
71 37.4 31.4 47.0

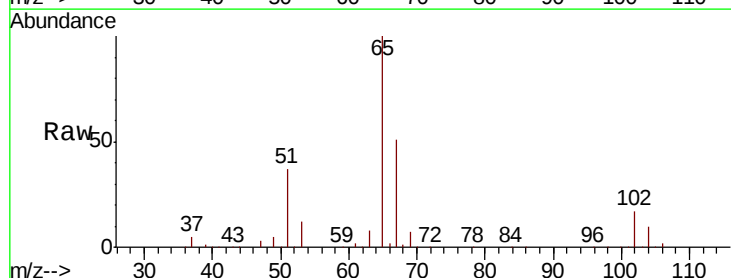


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

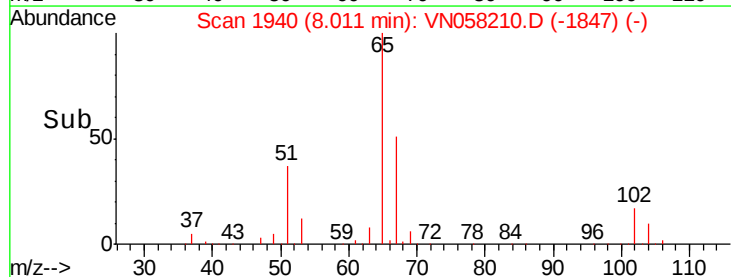
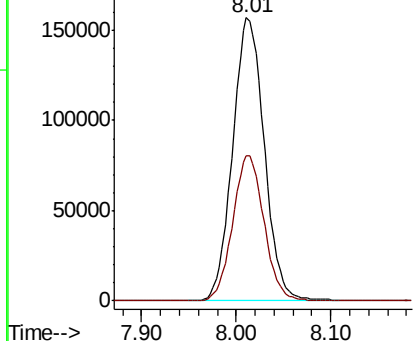


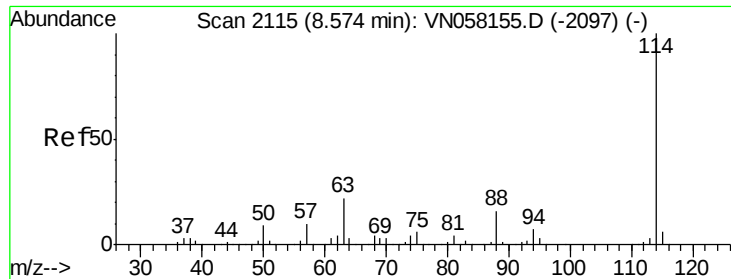
#33
1,2-Dichloroethane-d4
Concen: 51.432 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

Tgt Ion: 65 Resp: 365177
Ion Ratio Lower Upper
65 100
67 50.7 0.0 103.4



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

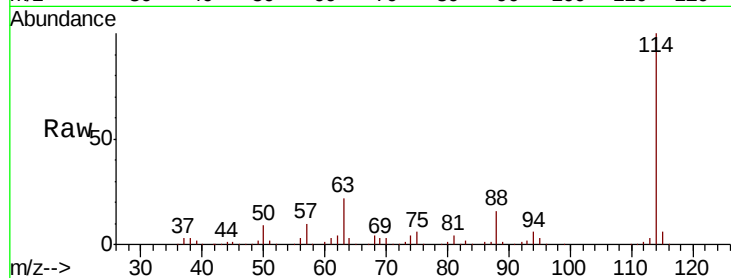




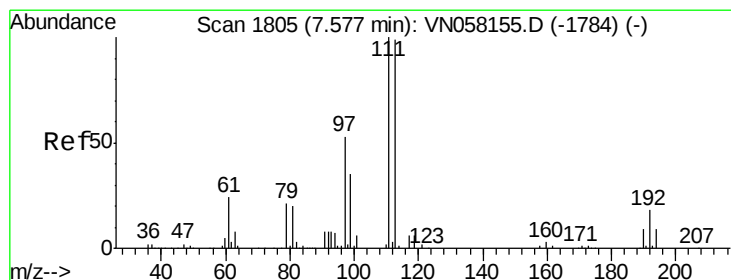
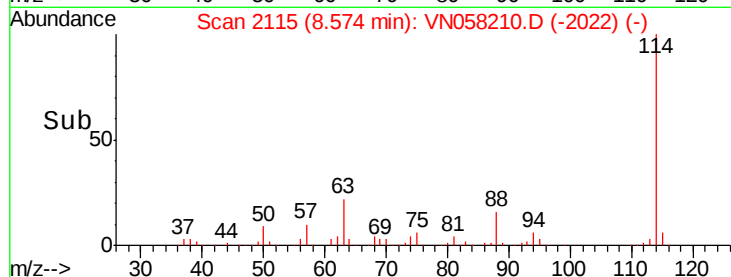
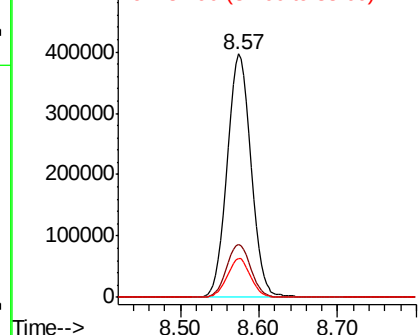
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 832684
Ion Ratio Lower Upper
114 100
63 21.9 0.0 44.2
88 16.1 0.0 31.6

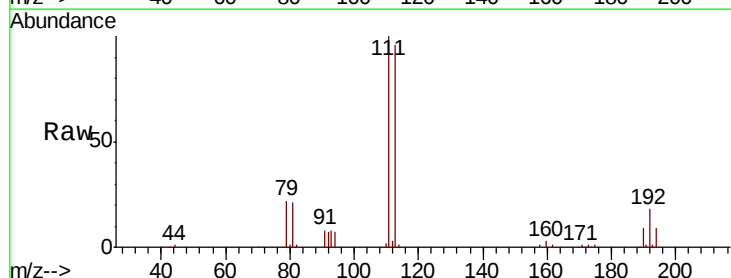


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

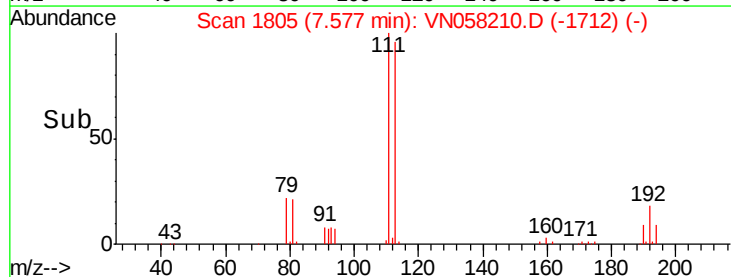
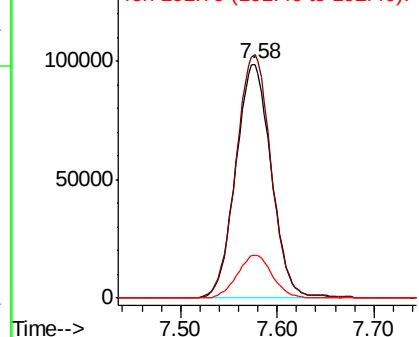


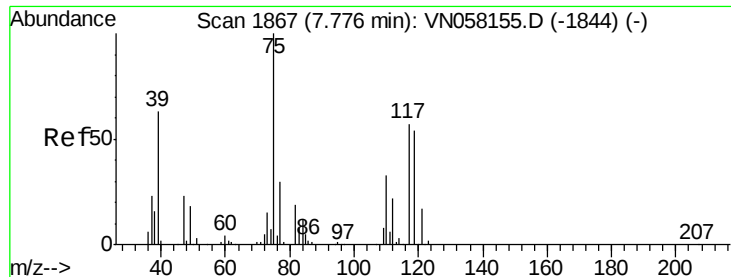
#35
Dibromofluoromethane
Concen: 49.760 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. -0.00 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

Tgt Ion:113 Resp: 251885
Ion Ratio Lower Upper
113 100
111 102.9 81.8 122.6
192 18.3 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

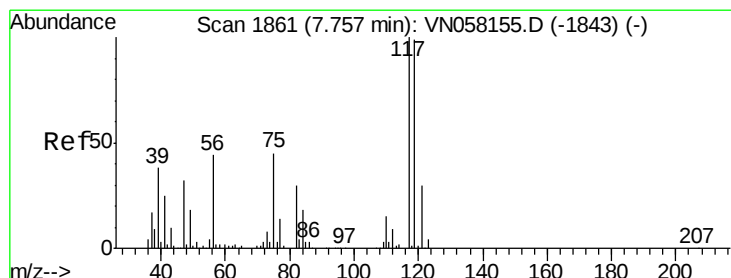
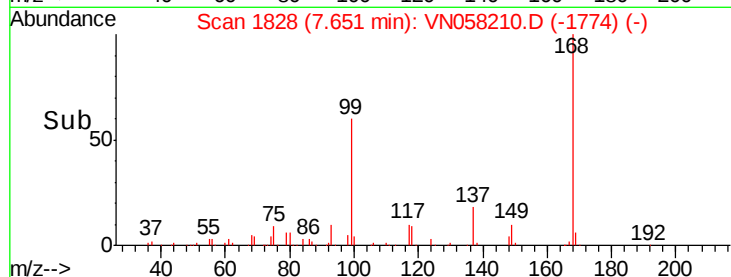
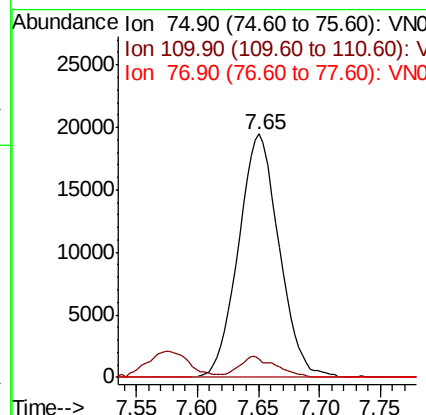
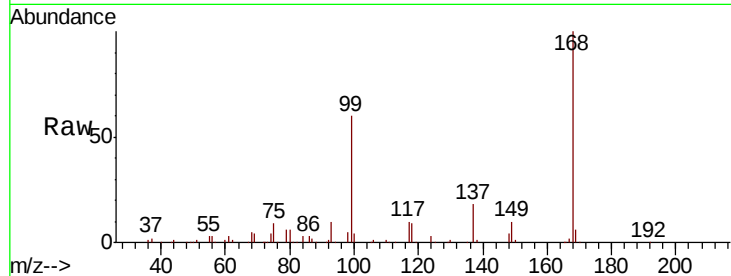




#36
 1,1-Dichloropropene
 Concen: 7.470 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058210.D
 Acq: 19 Sep 2019 17:47

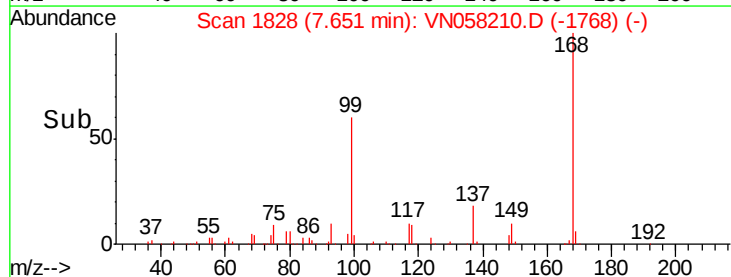
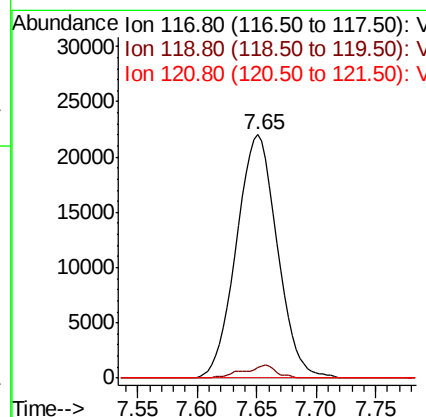
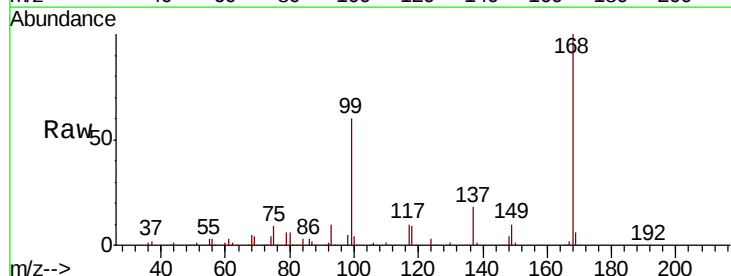
Instrument :
 MSVOA_N
 ClientSampleId :

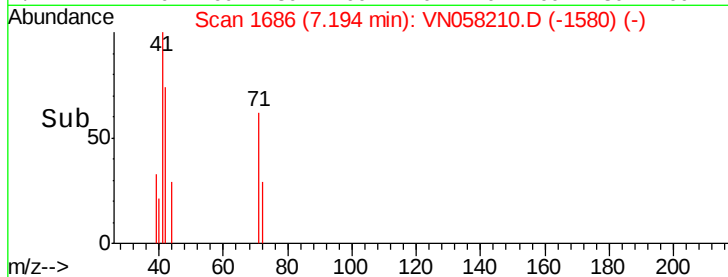
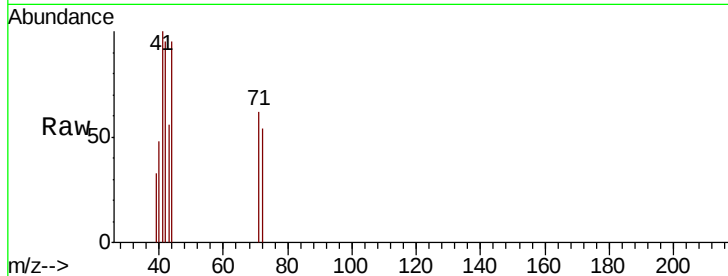
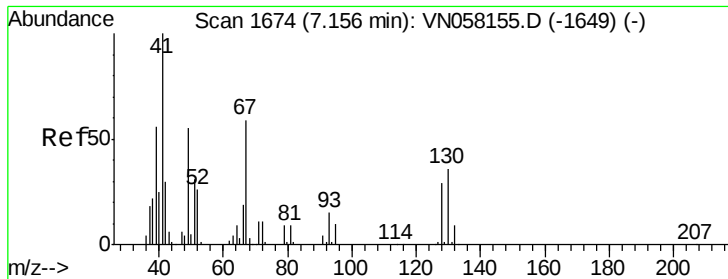
Tot Ion	75	Resp	44859
Ion Ratio	Lower	Upper	
75	100		
110	7.8	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.692 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058210.D
 Acq: 19 Sep 2019 17:47

Tgt Ion	117	Resp	52467
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.2	78.6	117.8#
121	0.0	24.1	36.1#

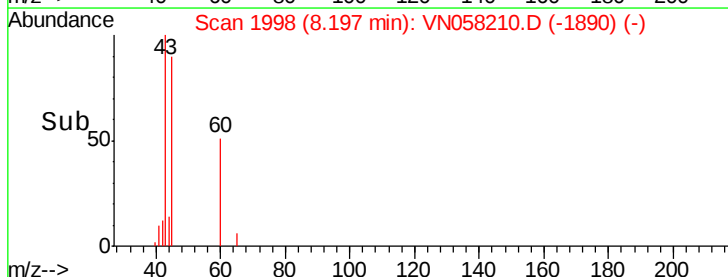
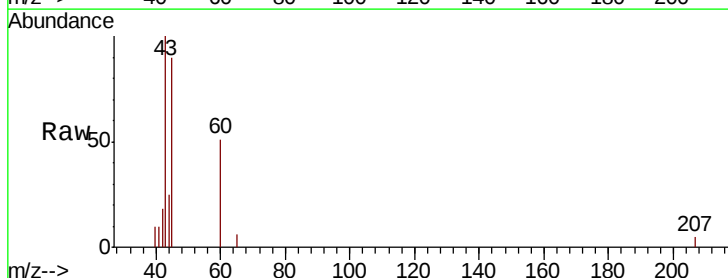
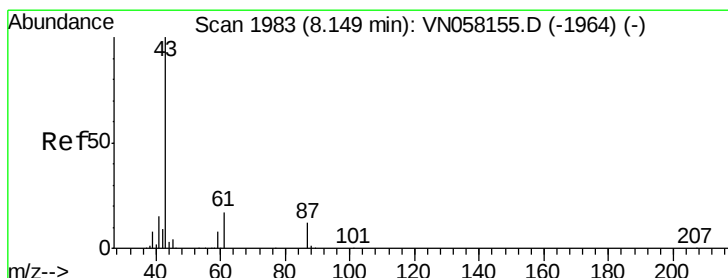
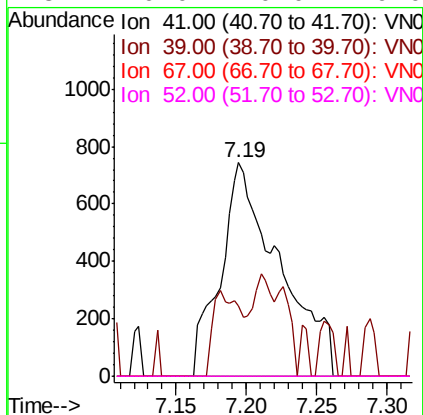




#41
Methacrylonitrile
Concen: 1.592 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

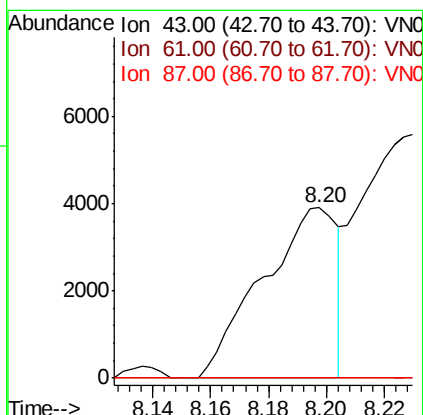
Instrument :
MSVOA_N
ClientSampled :

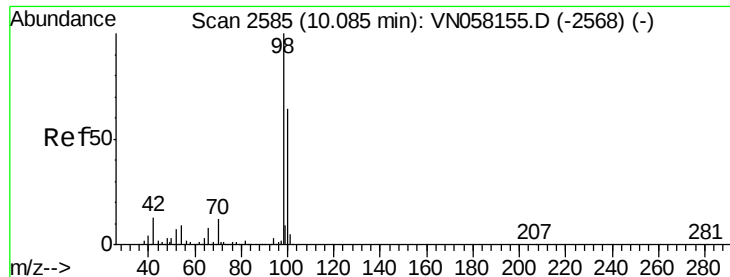
Tot Ion:	41	Resp:	2178
Ion	Ratio	Lower	Upper
41	100		
39	17.4	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 0.602 ug/l
RT: 8.20 min Scan# 1998
Delta R.T. 0.05 min
Lab File: VN058210.D
Acq: 19 Sep 2019 17:47

Tgt Ion:	43	Resp:	7010
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#50

Toluene-d8

Concen: 52.625 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058210.D

Acq: 19 Sep 2019 17:47

Instrument :

MSVOA_N

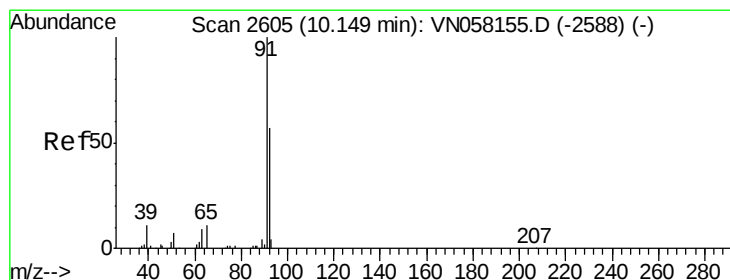
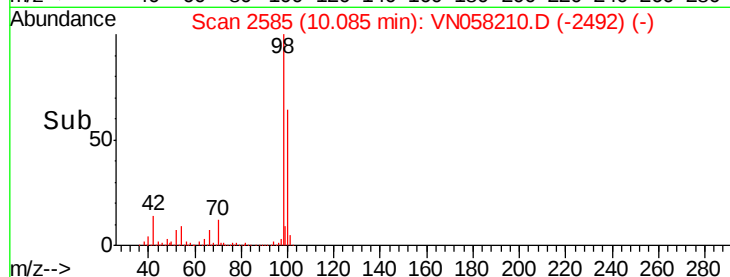
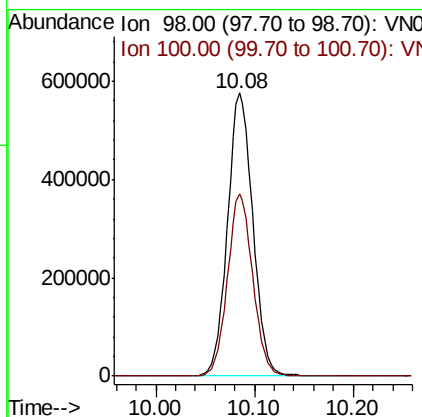
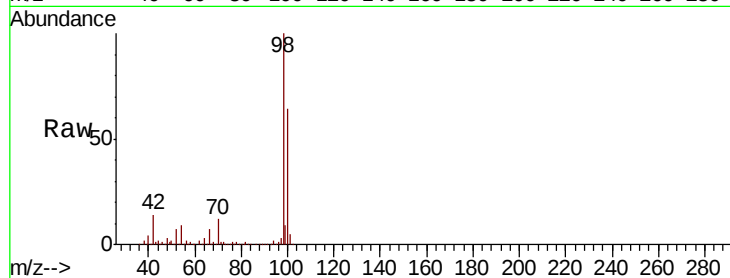
ClientSampleId :

Tot Ion: 98 Resp: 1037902

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



#52

Toluene

Concen: 1.467 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058210.D

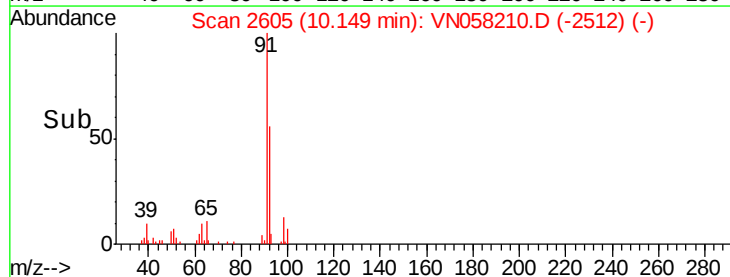
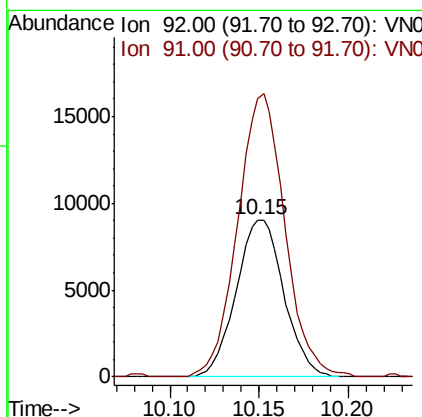
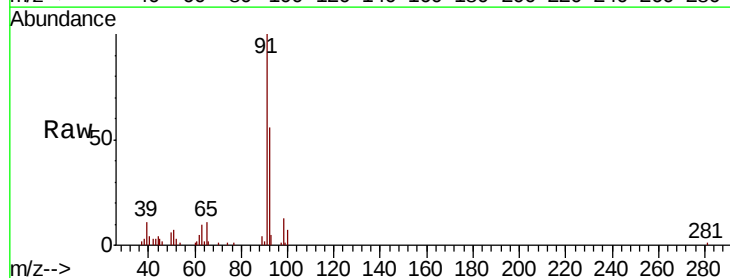
Acq: 19 Sep 2019 17:47

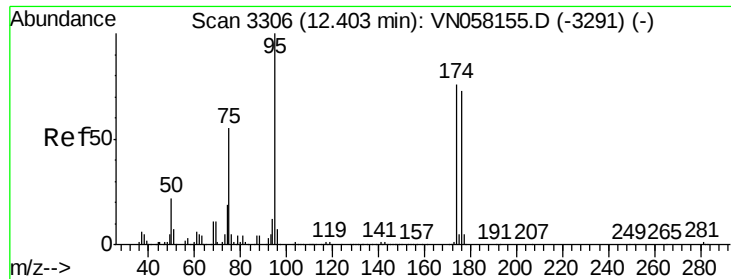
Tgt Ion: 92 Resp: 16860

Ion Ratio Lower Upper

92 100

91 178.8 140.2 210.2





#62

4-Bromofluorobenzene

Concen: 44.883 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058210.D

Acq: 19 Sep 2019 17:47

Instrument :

MSVOA_N

ClientSampled :

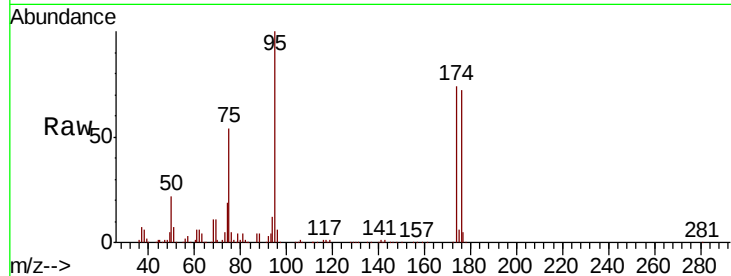
Tot Ion: 95 Resp: 328826

Ion Ratio Lower Upper

95 100

174 76.7 0.0 152.2

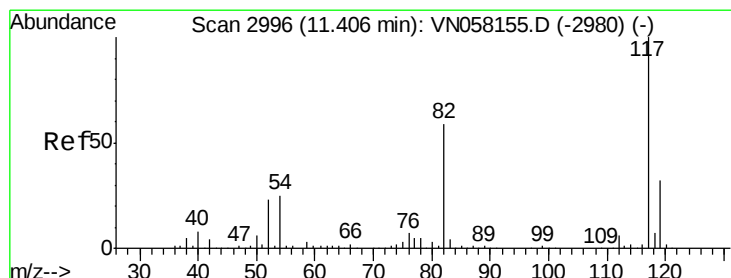
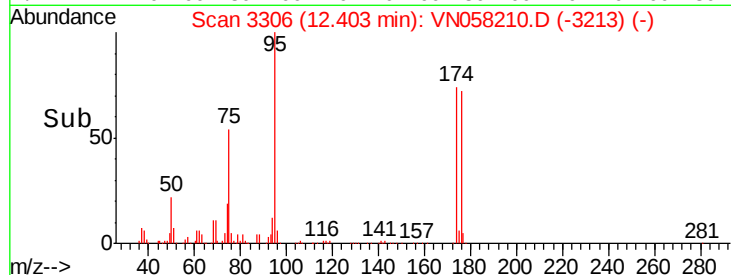
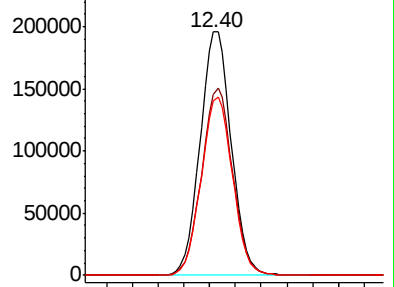
176 73.7 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058210.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058210.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058210.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058210.D

Acq: 19 Sep 2019 17:47

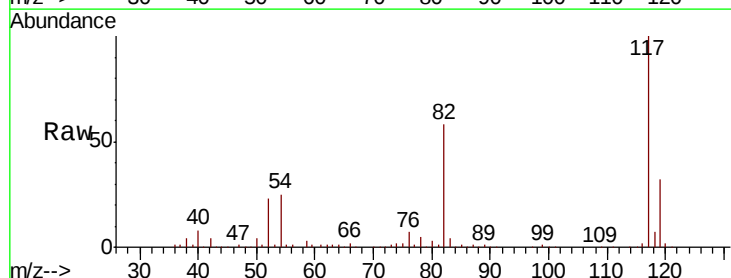
Tgt Ion: 117 Resp: 711044

Ion Ratio Lower Upper

117 100

82 58.4 46.9 70.3

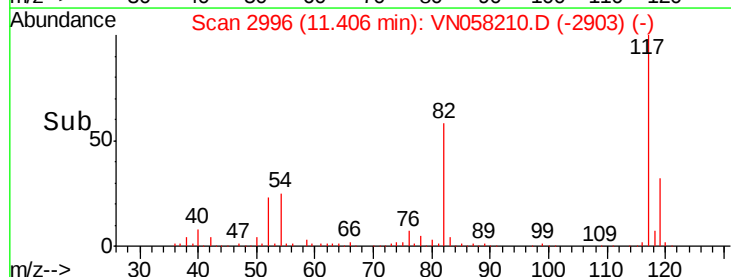
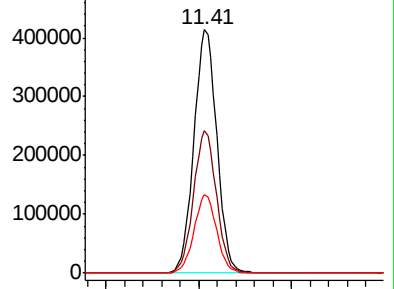
119 32.1 25.3 37.9

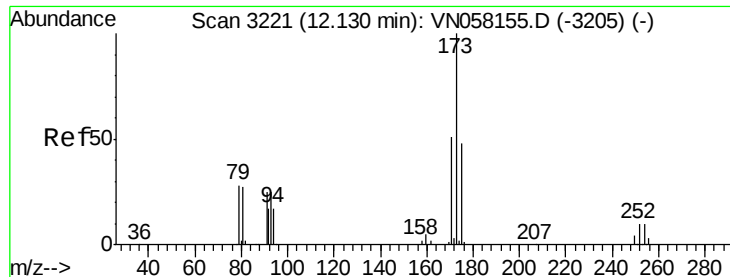


Abundance Ion 116.90 (116.60 to 117.60): VN058210.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058210.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058210.D (-2980) (-)





#71

Bromoform

Concen: 3.767 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058210.D

Acq: 19 Sep 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

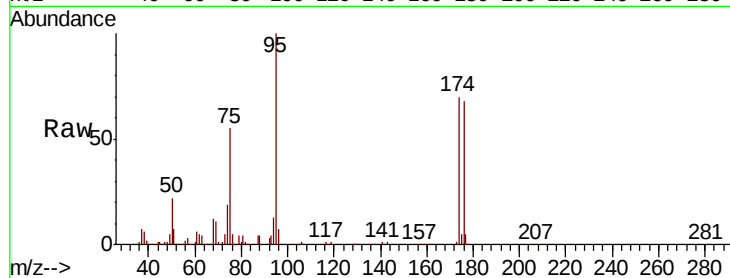
Tot Ion:173 Resp: 623

Ion Ratio Lower Upper

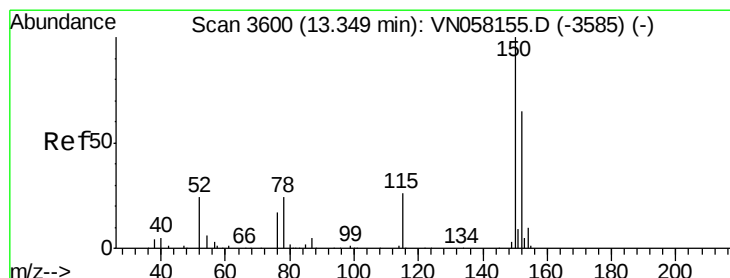
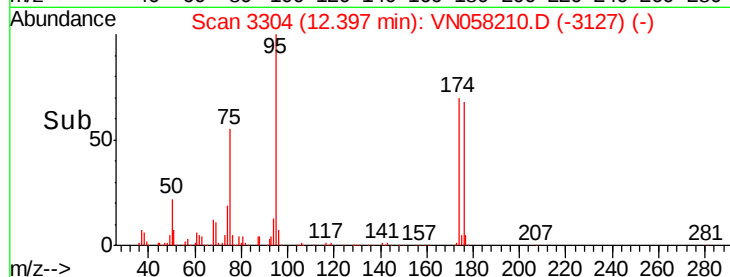
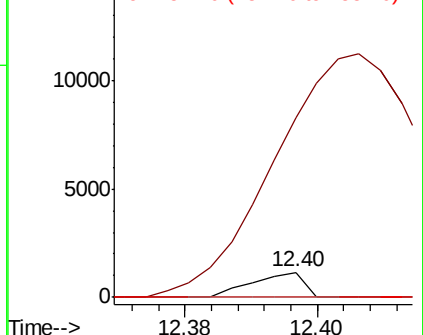
173 100

175 2549.8 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# 3600

Delta R.T. -0.00 min

Lab File: VN058210.D

Acq: 19 Sep 2019 17:47

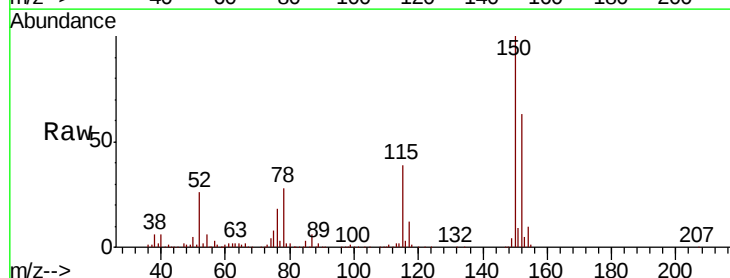
Tgt Ion:152 Resp: 284011

Ion Ratio Lower Upper

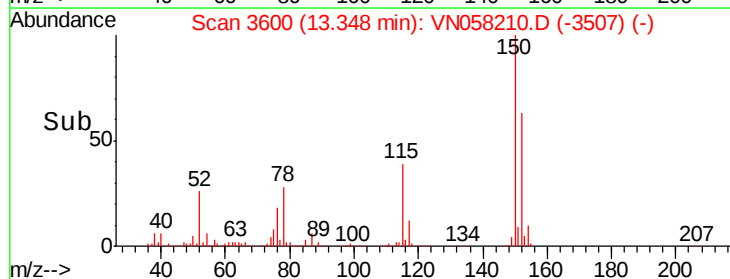
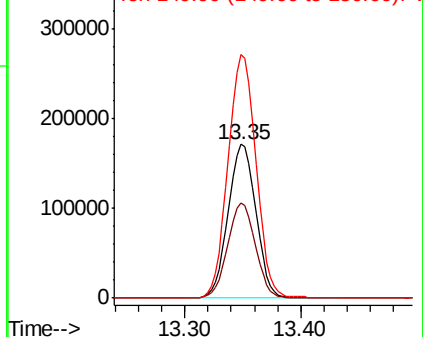
152 100

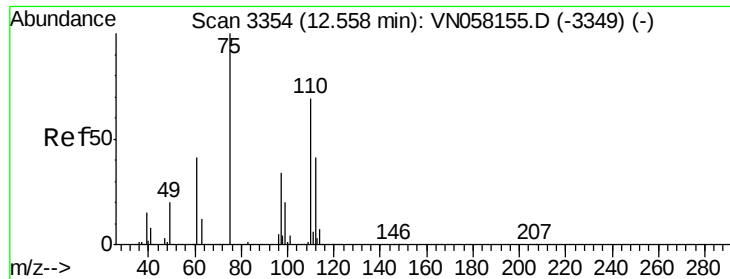
115 60.9 30.1 90.3

150 159.0 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

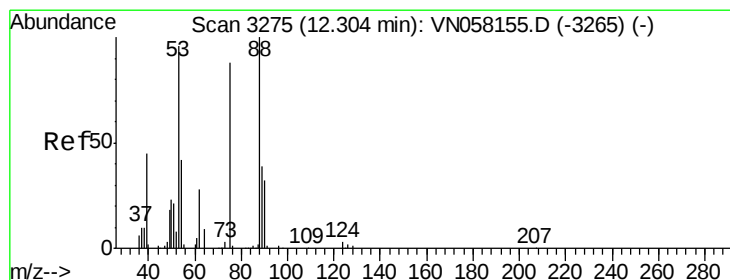
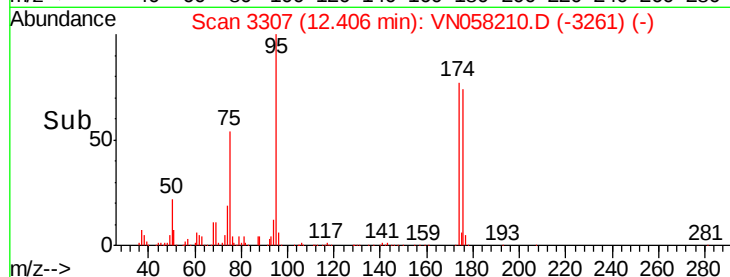
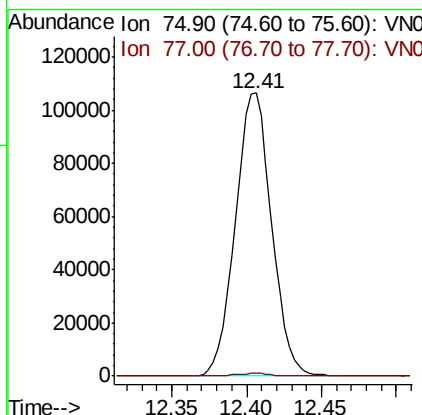
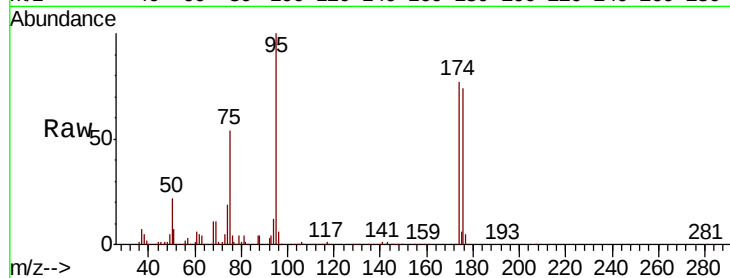




#76
 1,2,3-Trichloropropane
 Concen: 35.310 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058210.D
 Acq: 19 Sep 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 179476
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 98.723 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058210.D
 Acq: 19 Sep 2019 17:47

Tgt Ion: 75 Resp: 179476
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.1 135.1#
 89 0.0 36.2 54.2#

