

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058196.D
 Acq On : 19 Sep 2019 11:40
 Operator : JC/SP
 Sample : K4896-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:49:04 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	532372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	861421	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	733514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	301190	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	373263	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
35) Dibromofluoromethane	7.58	113	260148	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
50) Toluene-d8	10.08	98	1061862	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
62) 4-Bromofluorobenzene	12.40	95	340791	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	

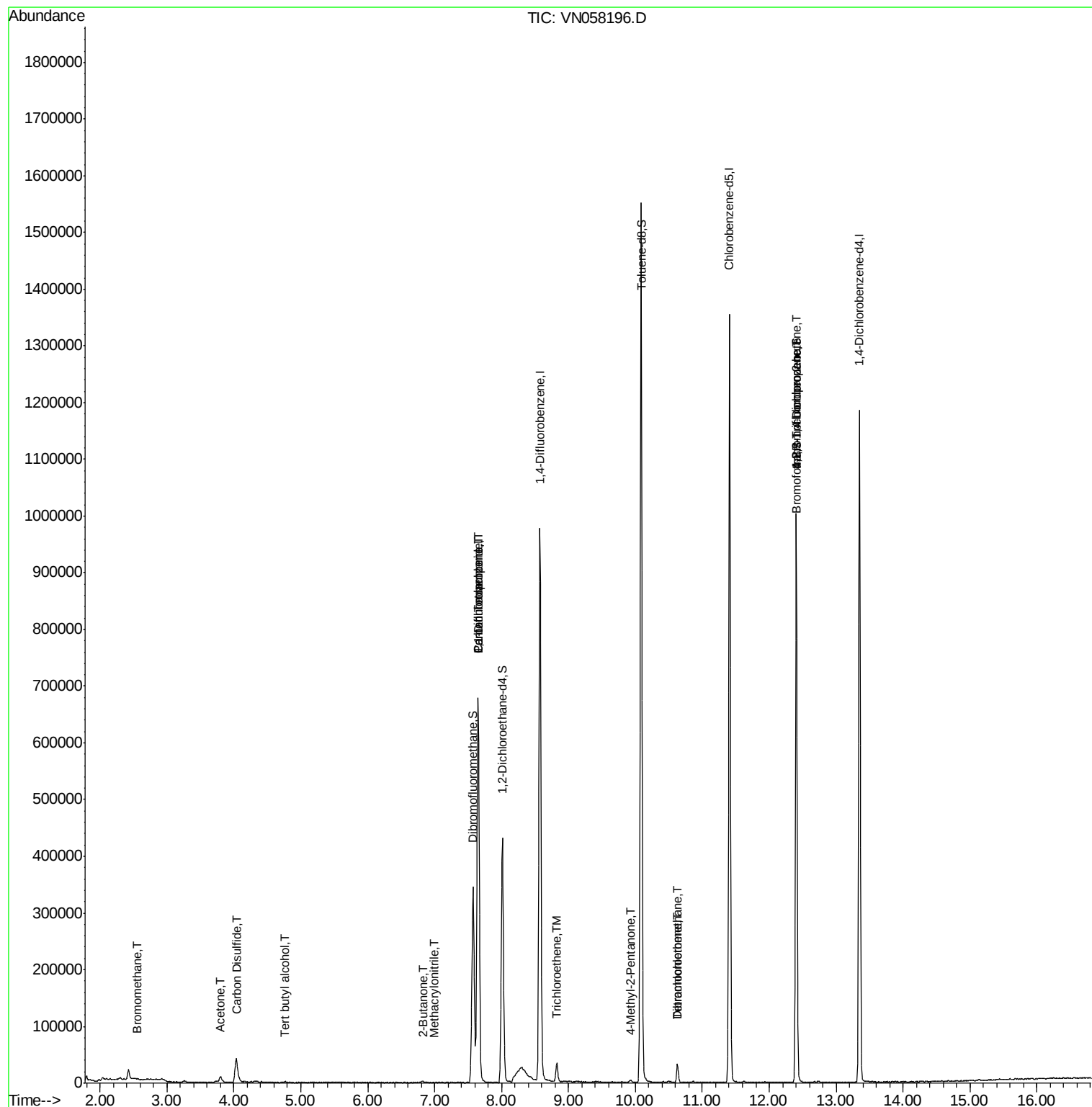
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2549	Below Cal		99
4) Vinyl Chloride	2.25	62	34	Below Cal	#	43
5) Bromomethane	2.55	94	264	0.856	ug/l #	4
6) Chloroethane	2.85	64	61	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	1298	1.472	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	427	Below Cal	#	31
16) Acetone	3.80	43	18643	7.407	ug/l	89
17) Carbon Disulfide	4.05	76	136	0.300	ug/l #	74
20) Methylene Chloride	4.54	84	413	Below Cal	#	48
25) 2-Butanone	6.84	43	961	0.280	ug/l #	51
31) Cyclohexane	7.64	56	13260	Below Cal	#	10
36) 1,1-Dichloropropene	7.65	75	44569	7.175	ug/l #	51
38) Carbon Tetrachloride	7.65	117	54454	8.720	ug/l #	15
41) Methacrylonitrile	6.99	41	30	0.920	ug/l #	100
44) Trichloroethene	8.83	130	11250	2.423	ug/l	90
51) 4-Methyl-2-Pentanone	9.93	43	2041	0.319	ug/l #	37
60) Dibromochloromethane	10.63	129	5785	1.140	ug/l #	11
64) Tetrachloroethene	10.63	164	7098	1.985	ug/l	94
71) Bromoform	12.39	173	262	3.665	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	184831	34.289	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	184831	96.036	ug/l #	5

(#) = 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
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Instrument :

MSVOA_N

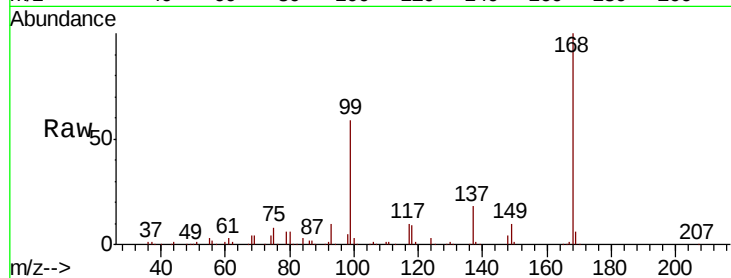
ClientSampleId :

Tot Ion:168 Resp: 532372

Ion Ratio Lower Upper

168 100

99 58.9 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

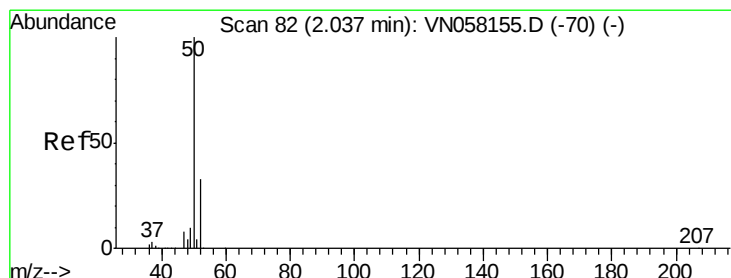
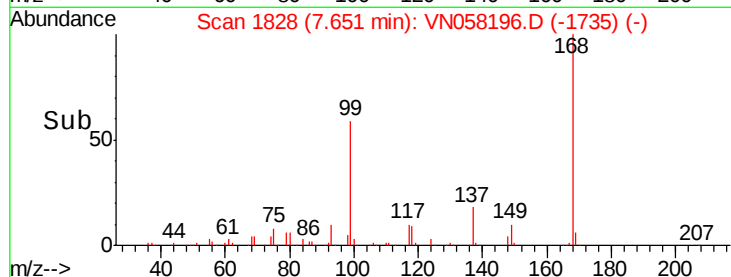
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058196.D

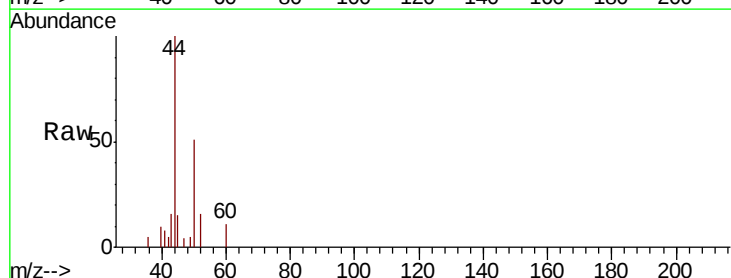
Acq: 19 Sep 2019 11:40

Tgt Ion: 50 Resp: 2549

Ion Ratio Lower Upper

50 100

52 32.2 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) (-)

2.03

2000

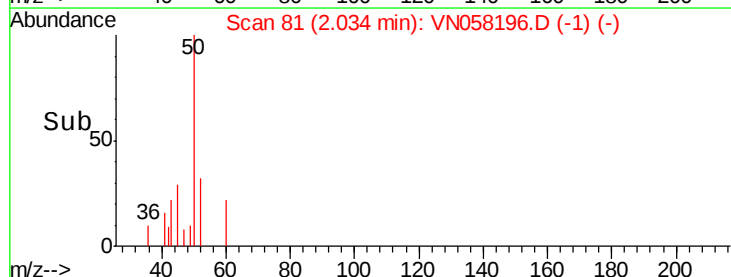
1500

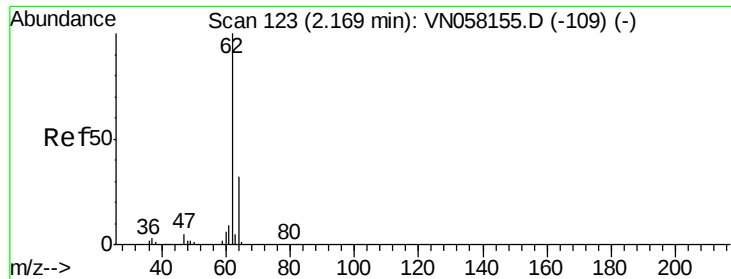
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.25 min Scan# 149

Delta R.T. 0.08 min

Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Instrument :

MSVOA_N

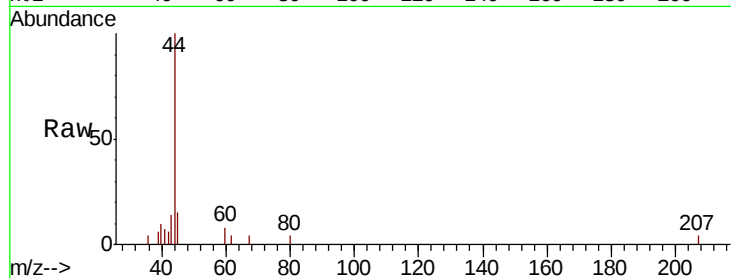
ClientSampleId :

Tot Ion: 62 Resp: 34

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.25

150

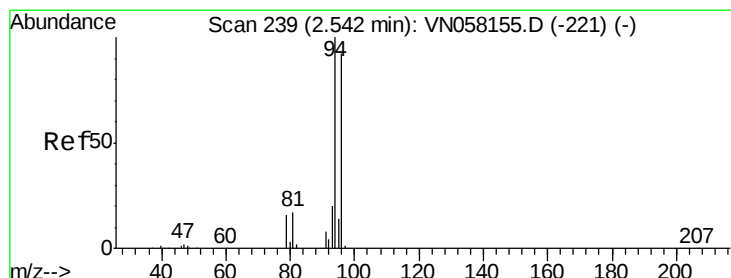
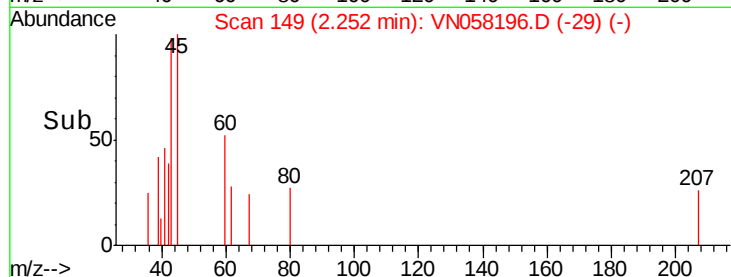
100

50

0

2.24 2.25 2.26

Time-->



#5

Bromomethane

Concen: 0.856 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058196.D

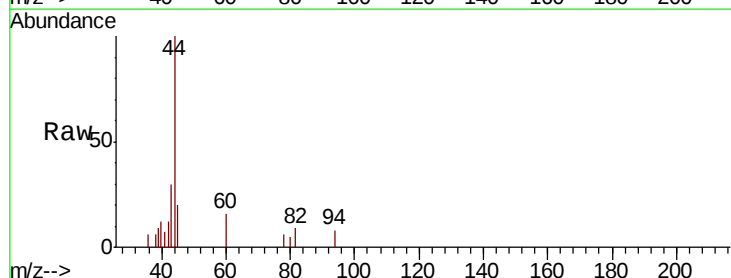
Acq: 19 Sep 2019 11:40

Tgt Ion: 94 Resp: 264

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

300

250

200

150

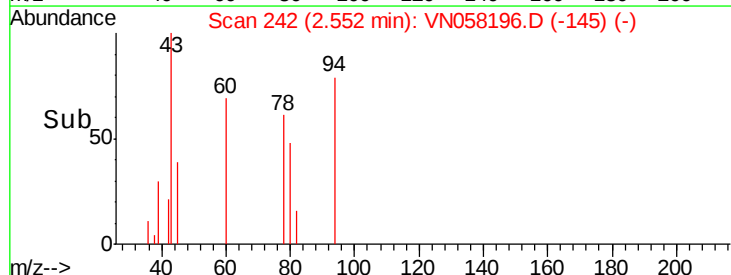
100

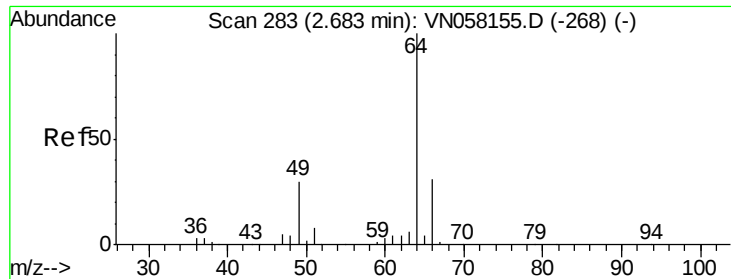
50

0

2.54 2.56 2.58

Time-->

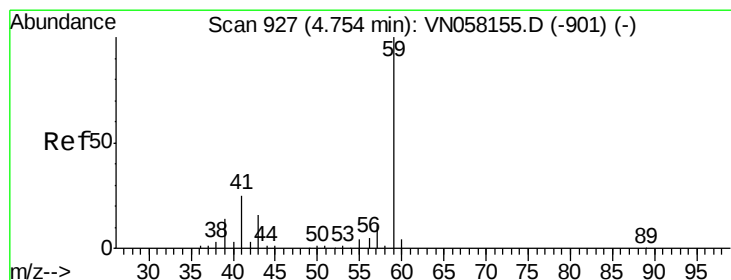
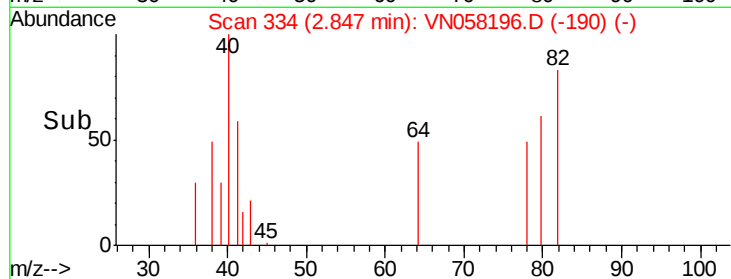
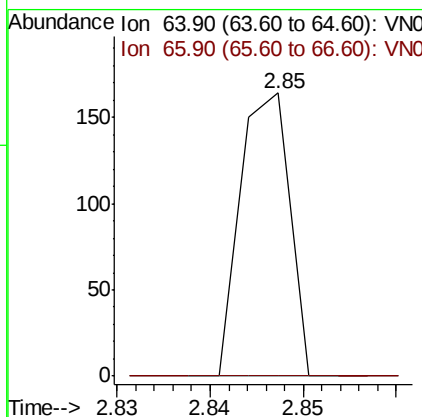
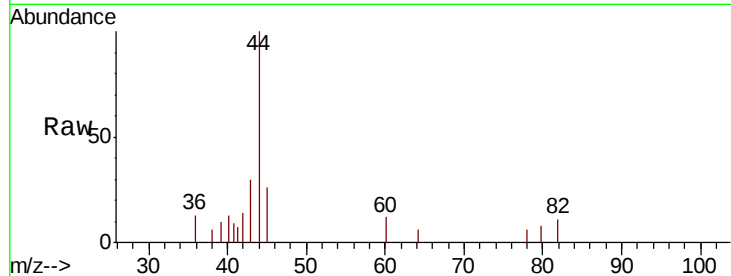




#6
Chloroethane
Concen: Below Cal
RT: 2.85 min Scan# 334
Delta R.T. 0.16 min
Lab File: VN058196.D
Acq: 19 Sep 2019 11:40

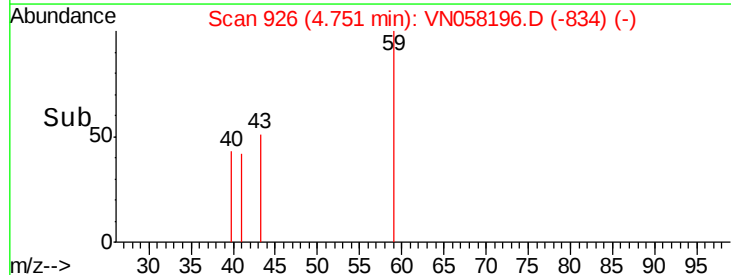
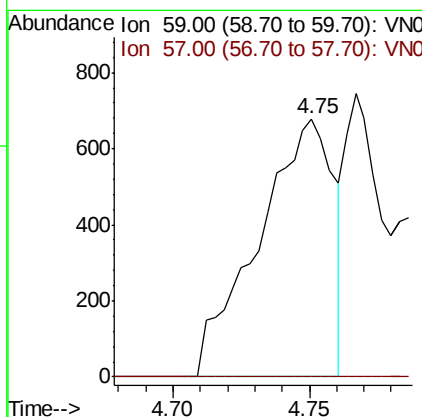
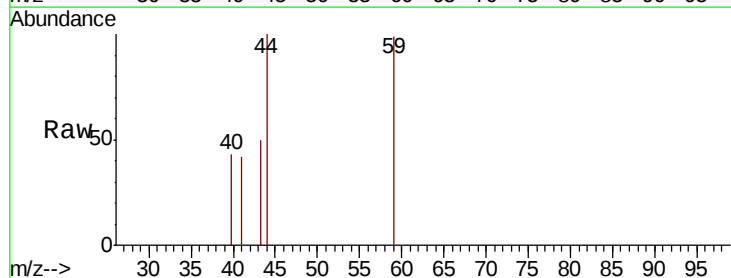
Instrument :
MSVOA_N
ClientSampled :

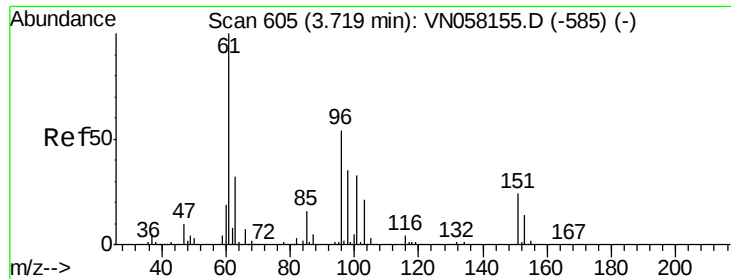
Tot Ion: 64 Resp: 61
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



#11
Tert butyl alcohol
Concen: 1.472 ug/l
RT: 4.75 min Scan# 926
Delta R.T. -0.00 min
Lab File: VN058196.D
Acq: 19 Sep 2019 11:40

Tgt Ion: 59 Resp: 1298
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

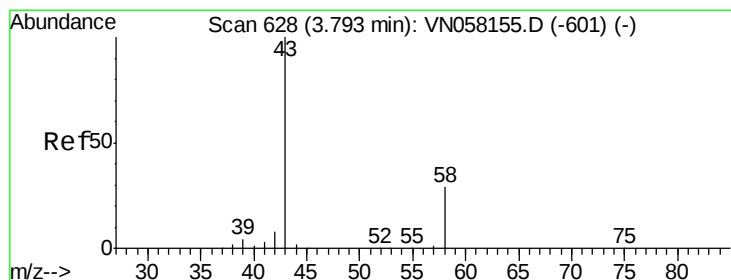
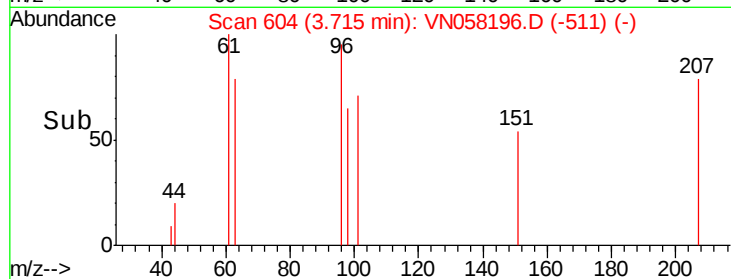
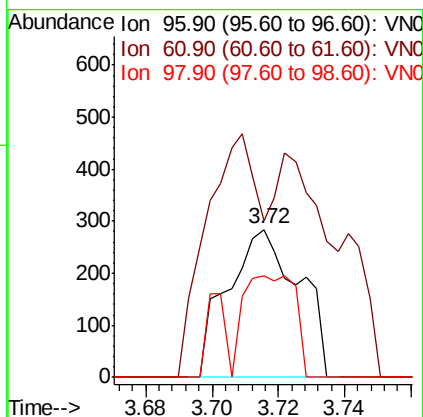
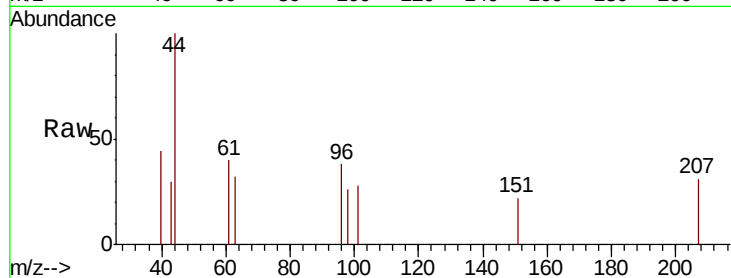




#12
 1,1-Dichloroethene
 Concen: Below Cal
 RT: 3.72 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

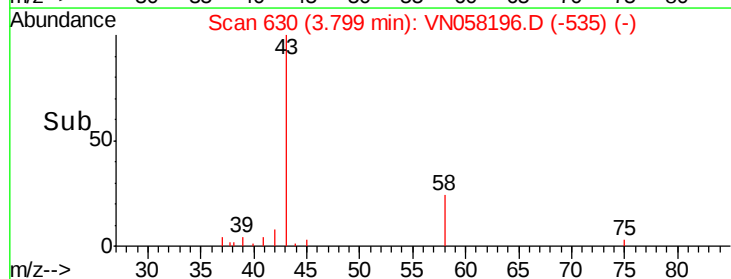
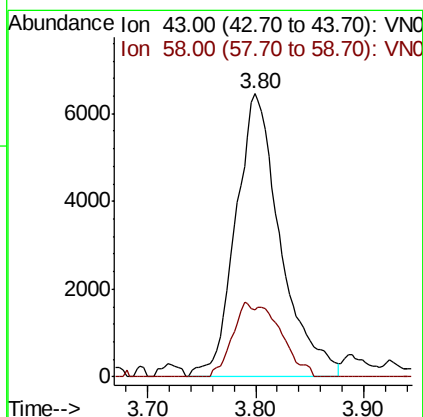
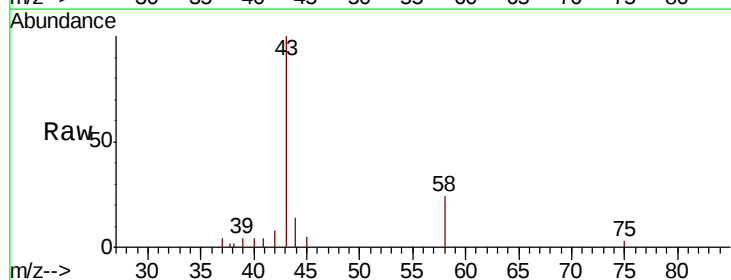
Instrument :
 MSVOA_N
 ClientSampled :

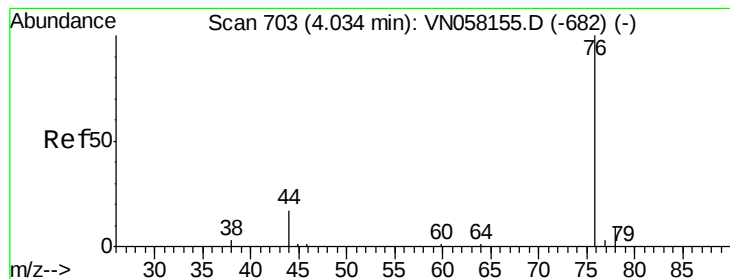
Tot Ion: 96 Resp: 427
 Ion Ratio Lower Upper
 96 100
 61 52.8 149.5 224.3#
 98 68.3 52.4 78.6



#16
 Acetone
 Concen: 7.407 ug/l
 RT: 3.80 min Scan# 630
 Delta R.T. 0.01 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

Tgt Ion: 43 Resp: 18643
 Ion Ratio Lower Upper
 43 100
 58 23.5 23.4 35.2





#17

Carbon Disulfide

Concen: 0.300 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Instrument :

MSVOA_N

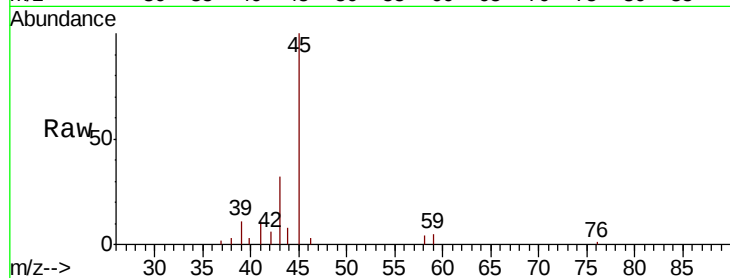
ClientSampleId :

Tot Ion: 76 Resp: 136

Ion Ratio Lower Upper

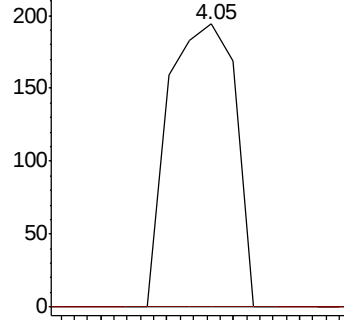
76 100

78 0.0 7.7 11.5#

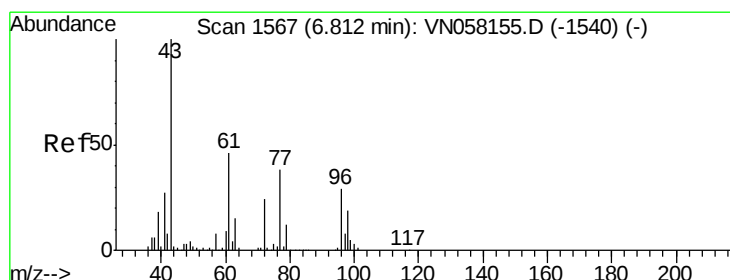
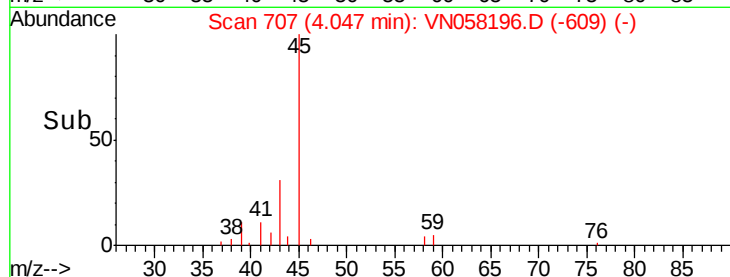


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#25

2-Butanone

Concen: 0.280 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.03 min

Lab File: VN058196.D

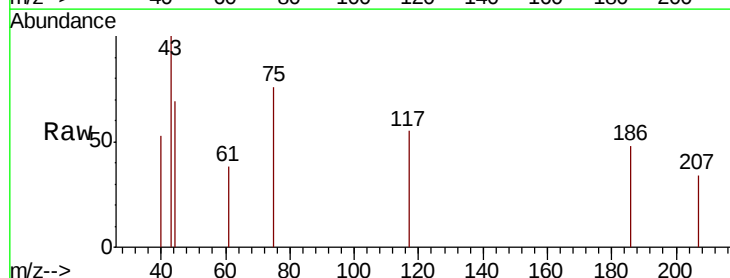
Acq: 19 Sep 2019 11:40

Tgt Ion: 43 Resp: 961

Ion Ratio Lower Upper

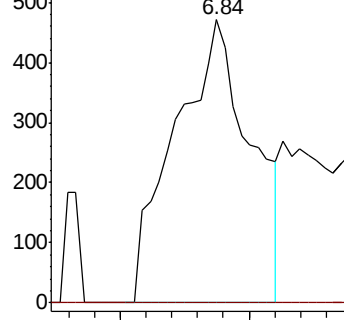
43 100

72 0.0 19.5 29.3#

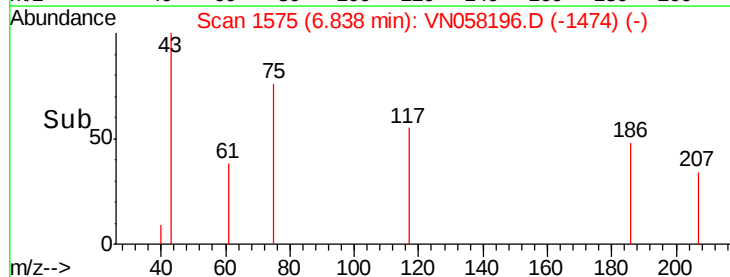


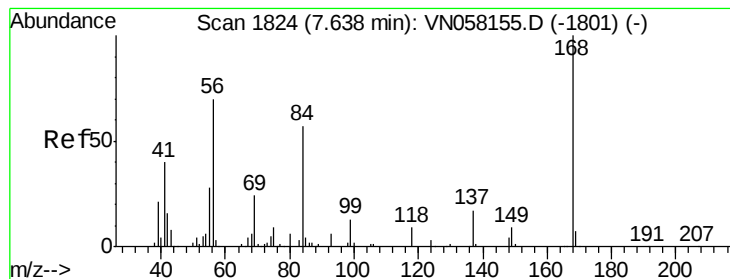
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

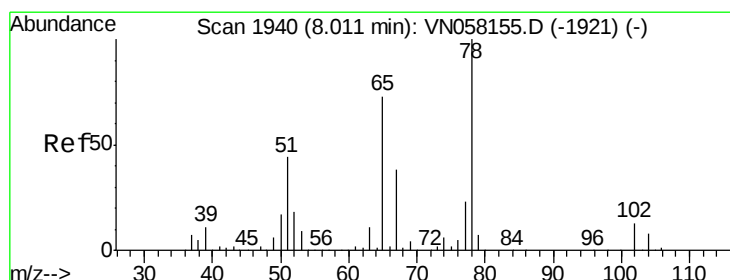
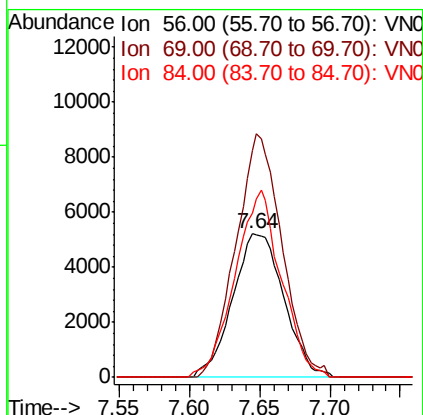
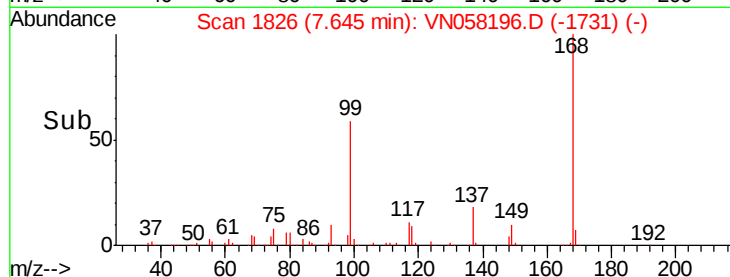
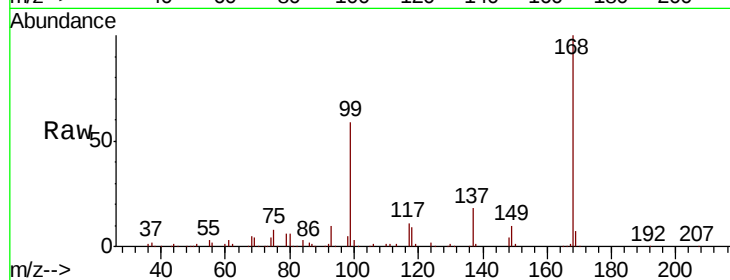
Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 13260

Ion	Ratio	Lower	Upper
56	100		
69	158.3	27.3	40.9#
84	114.4	65.0	97.4#



#33

1,2-Dichloroethane-d4

Concen: 50.340 ug/l

RT: 8.01 min Scan# 1940

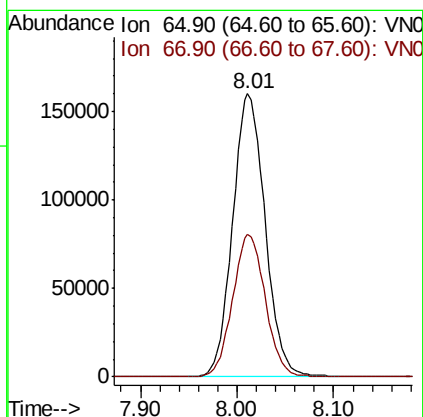
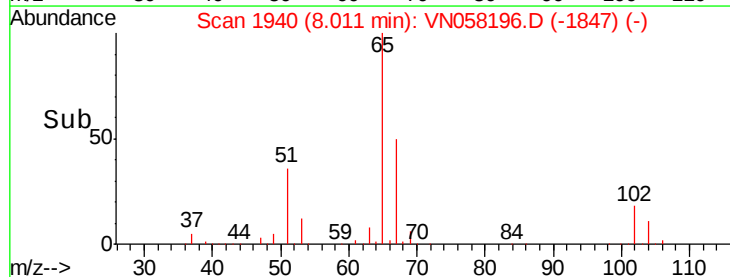
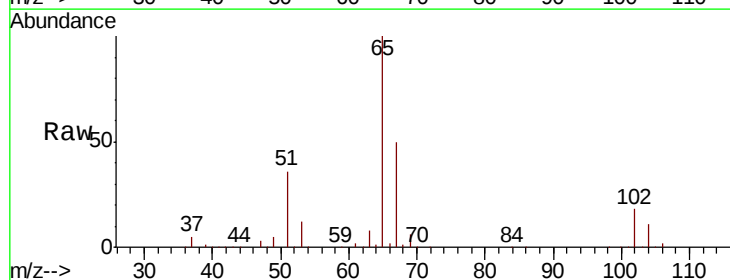
Delta R.T. 0.00 min

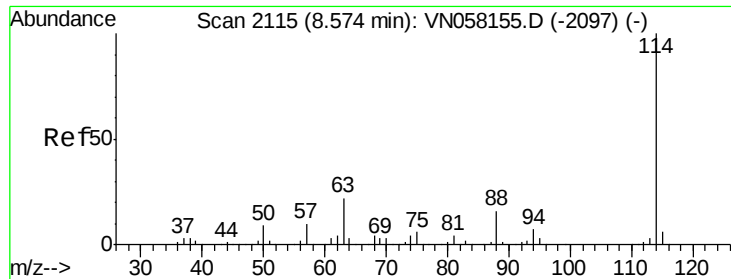
Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Tgt Ion: 65 Resp: 373263

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	103.4

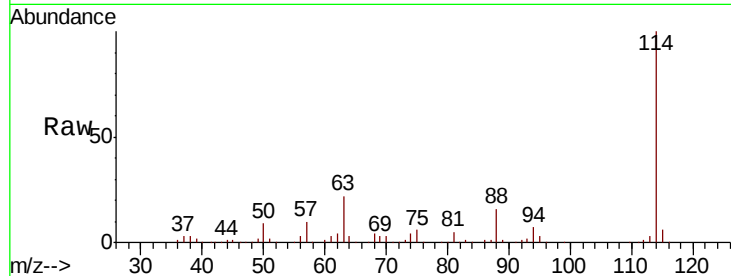




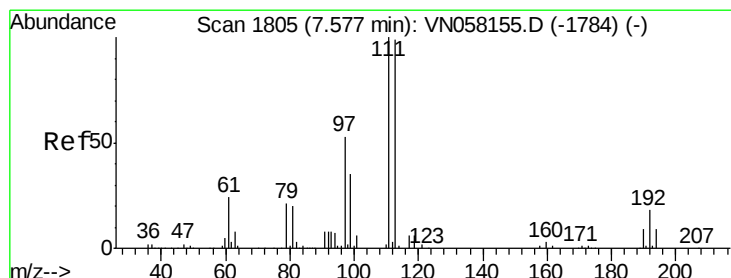
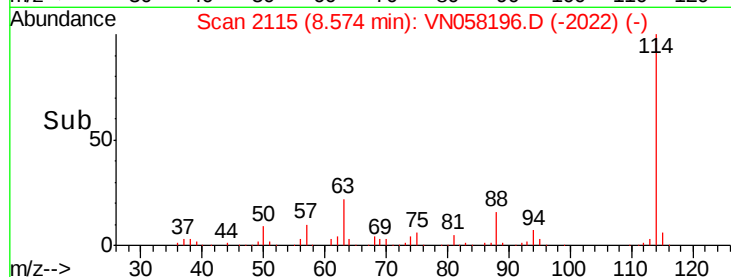
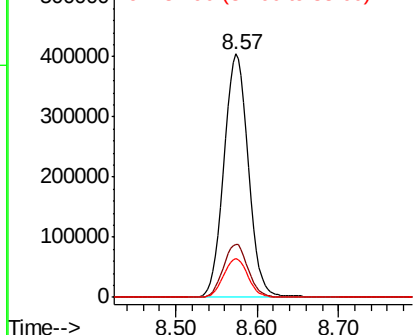
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 861421
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.2
 88 15.8 0.0 31.6

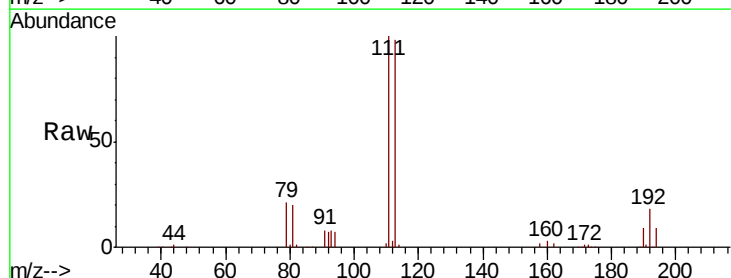


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

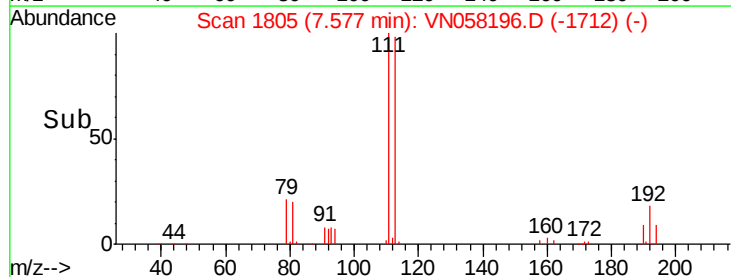
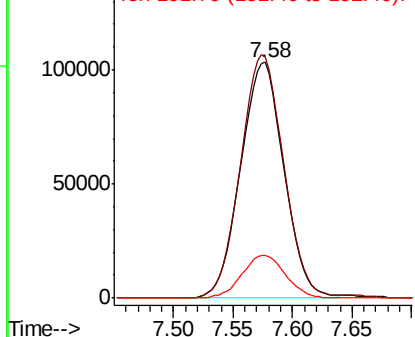


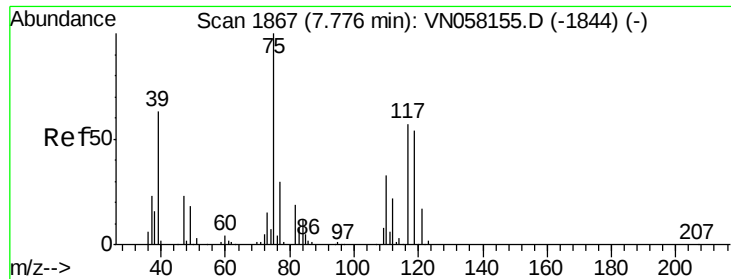
#35
 Dibromofluoromethane
 Concen: 49.678 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

Tgt Ion:113 Resp: 260148
 Ion Ratio Lower Upper
 113 100
 111 103.8 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

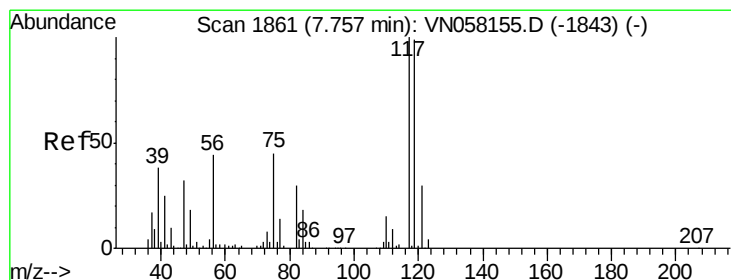
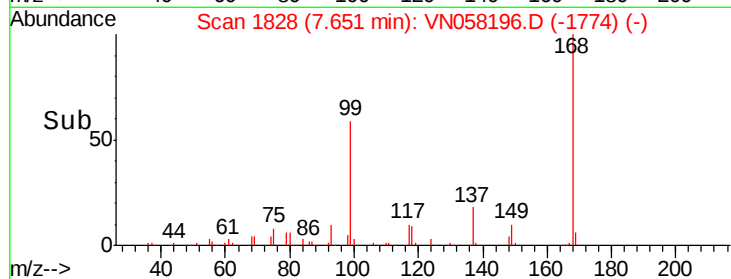
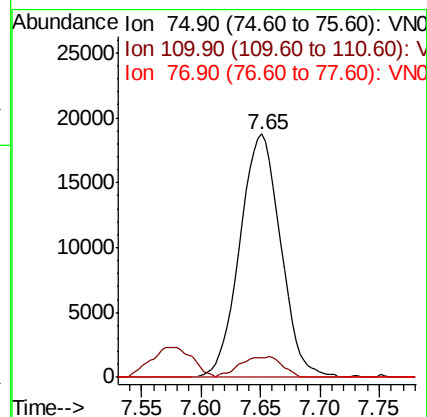
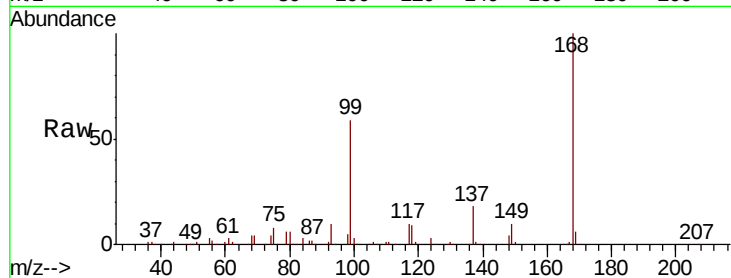




#36
 1,1-Dichloropropene
 Concen: 7.175 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

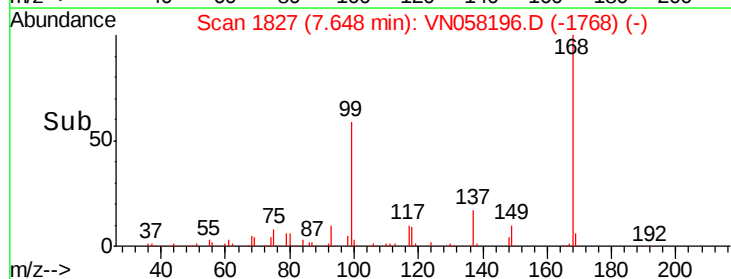
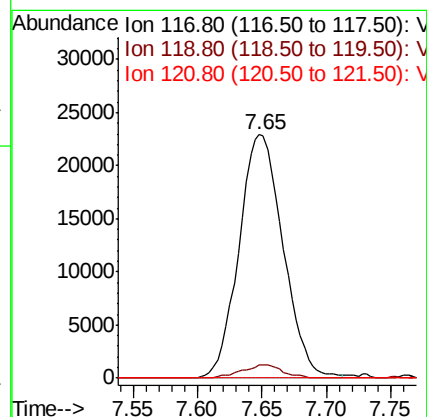
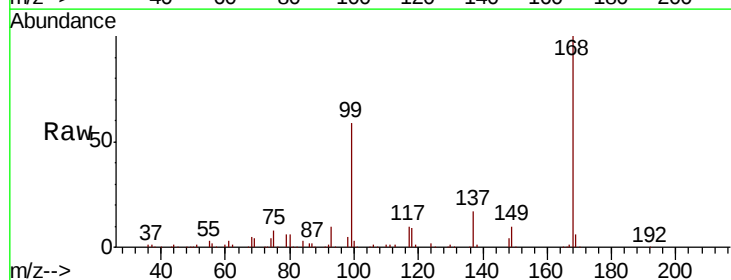
Instrument :
 MSVOA_N
 ClientSampleId :

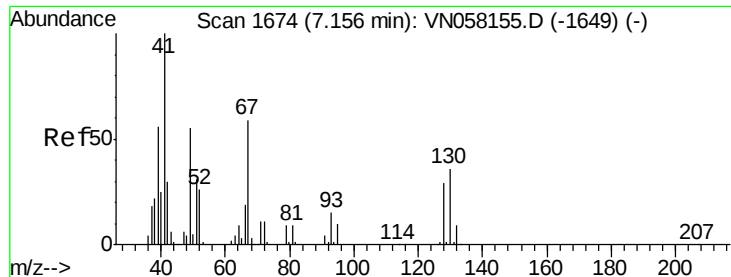
Tot Ion	75	Resp	44569
Ion Ratio	100		
Lower		16.6	49.7#
Upper		24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.720 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

Tgt Ion	117	Resp	54454
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower		78.6	117.8#
Upper		24.1	36.1#

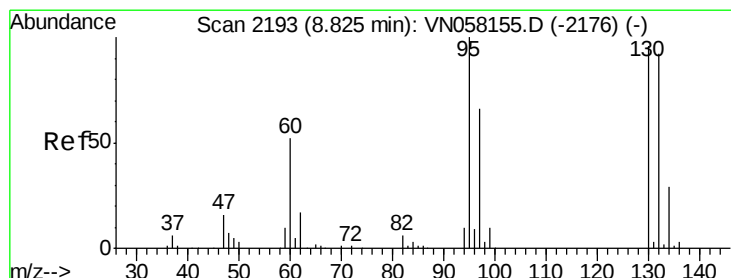
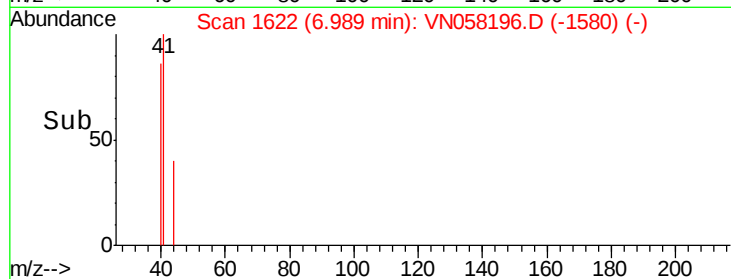
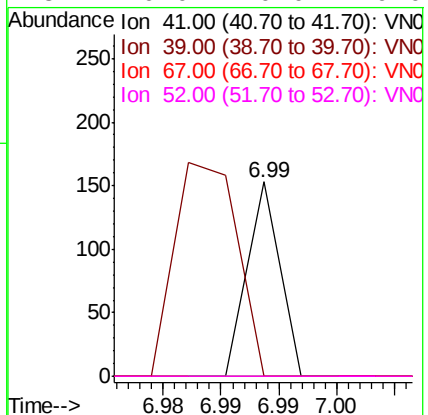
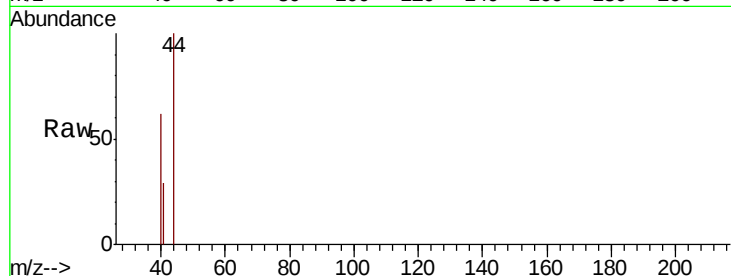




#41
Methacrylonitrile
Concen: 0.920 ug/l
RT: 6.99 min Scan# 1622
Delta R.T. -0.17 min
Lab File: VN058196.D
Acq: 19 Sep 2019 11:40

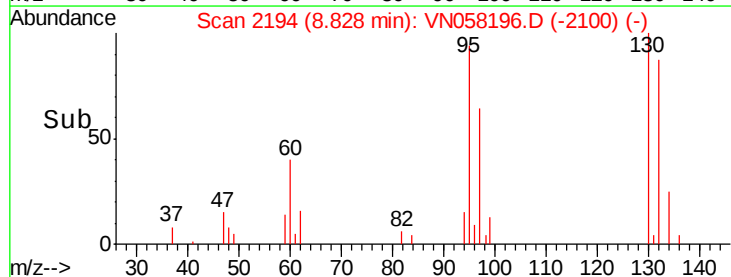
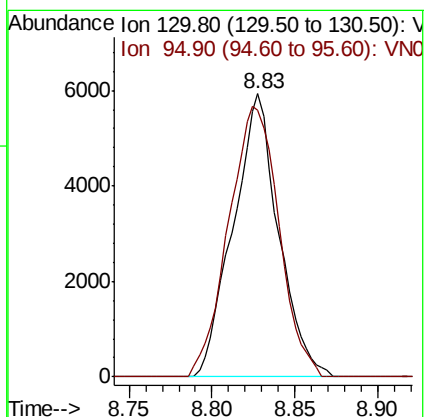
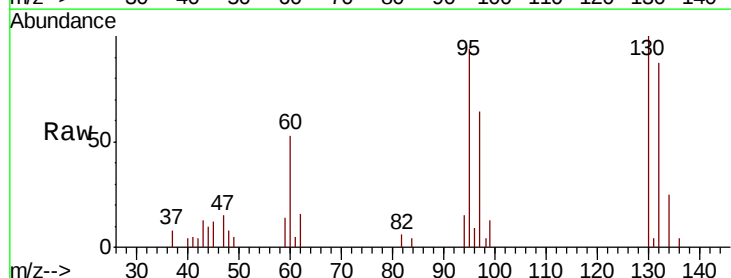
Instrument :
MSVOA_N
ClientSampled :

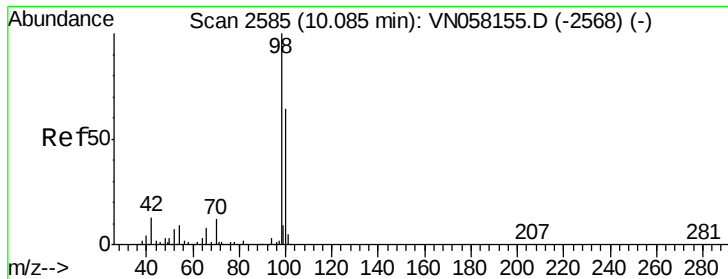
Tot Ion:	41	Resp:	30
Ion	Ratio	Lower	Upper
41	100		
39	210.0	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#44
Trichloroethene
Concen: 2.423 ug/l
RT: 8.83 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VN058196.D
Acq: 19 Sep 2019 11:40

Tgt Ion:	130	Resp:	11250
Ion	Ratio	Lower	Upper
130	100		
95	94.0	0.0	207.8





#50

Toluene-d8

Concen: 52.043 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Instrument :

MSVOA_N

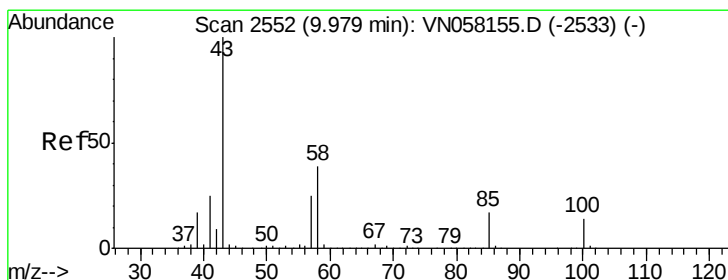
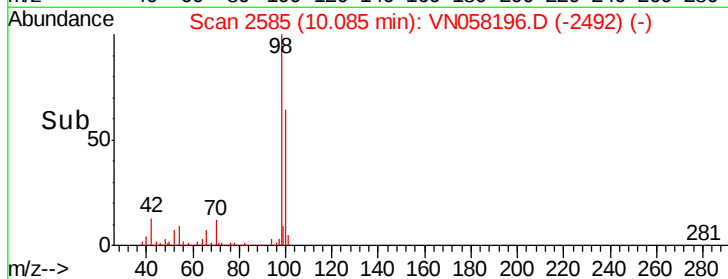
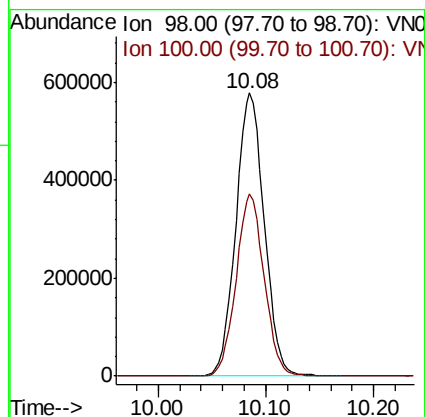
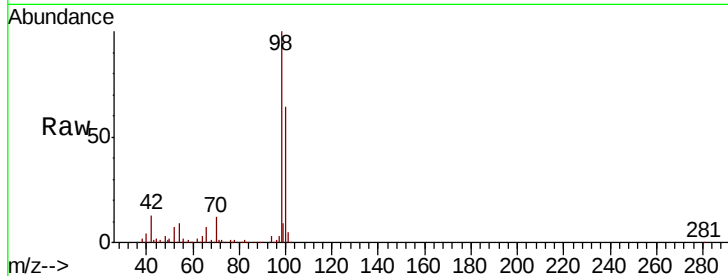
ClientSampleId :

Tot Ion: 98 Resp: 1061862

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.319 ug/l

RT: 9.93 min Scan# 2536

Delta R.T. -0.05 min

Lab File: VN058196.D

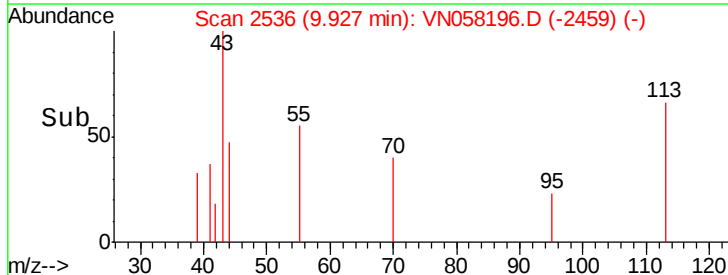
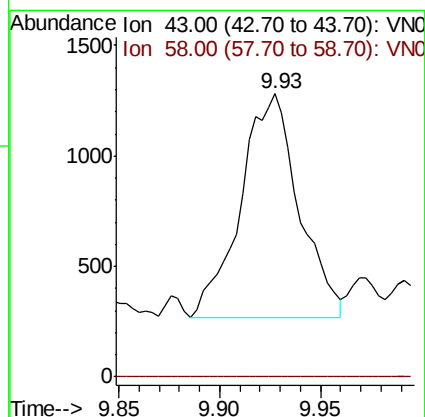
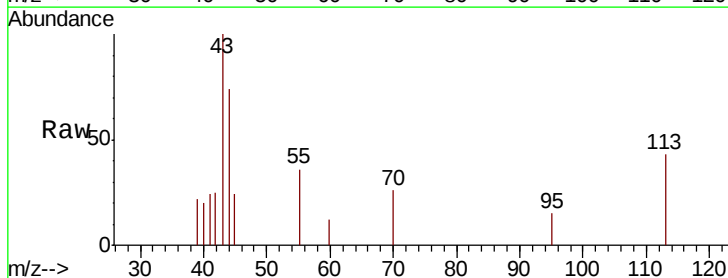
Acq: 19 Sep 2019 11:40

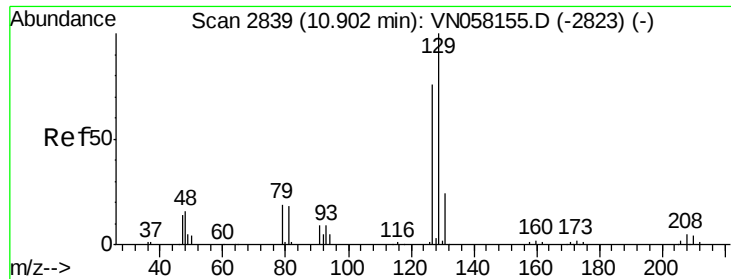
Tgt Ion: 43 Resp: 2041

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#

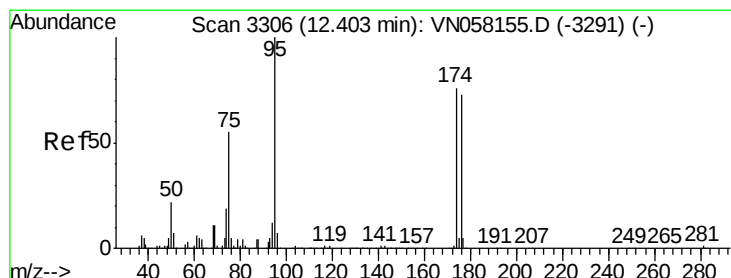
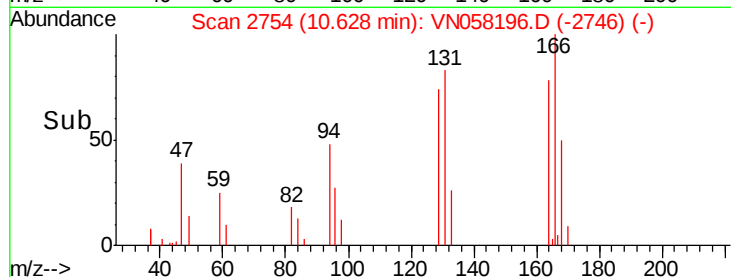
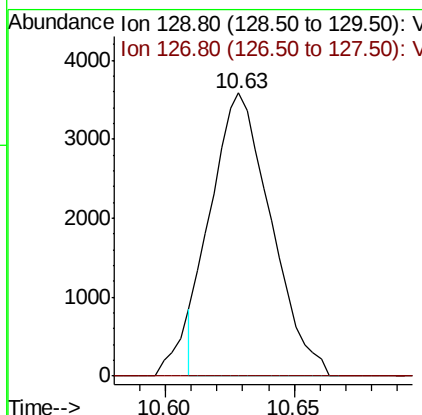
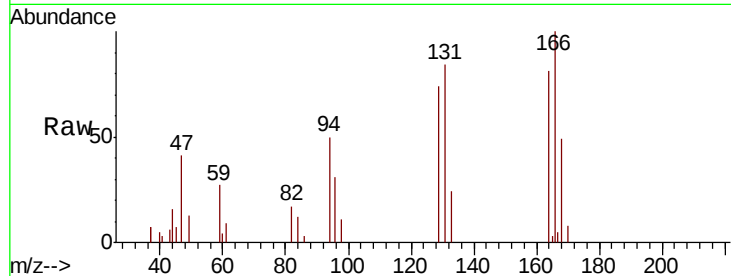




#60
 Dibromochloromethane
 Concen: 1.140 ug/l
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

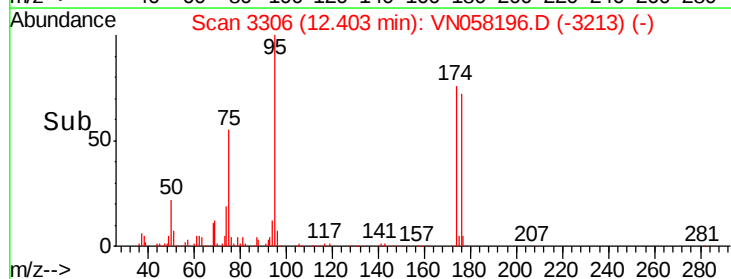
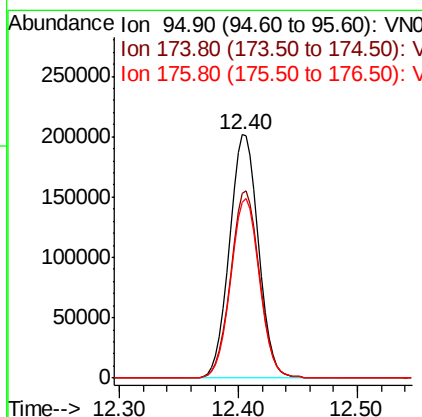
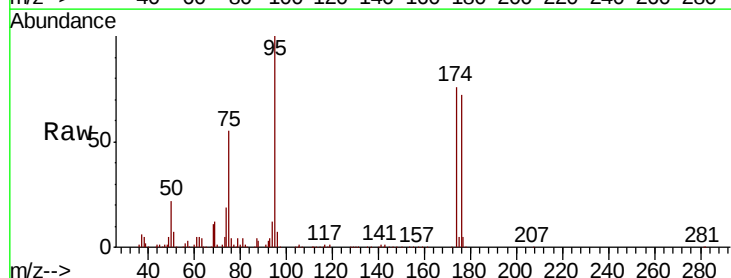
Instrument :
 MSVOA_N
 ClientSampled :

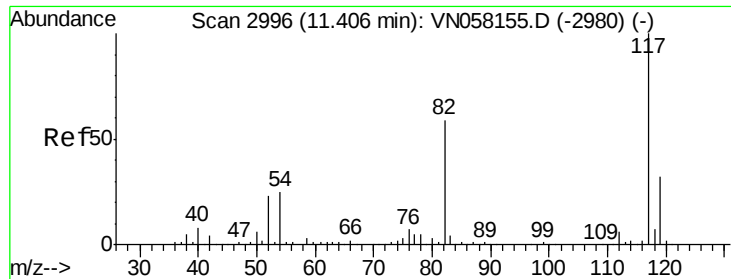
Tot Ion:129 Resp: 5785
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#



#62
 4-Bromofluorobenzene
 Concen: 44.965 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058196.D
 Acq: 19 Sep 2019 11:40

Tgt Ion: 95 Resp: 340791
 Ion Ratio Lower Upper
 95 100
 174 76.5 0.0 152.2
 176 73.4 0.0 148.0

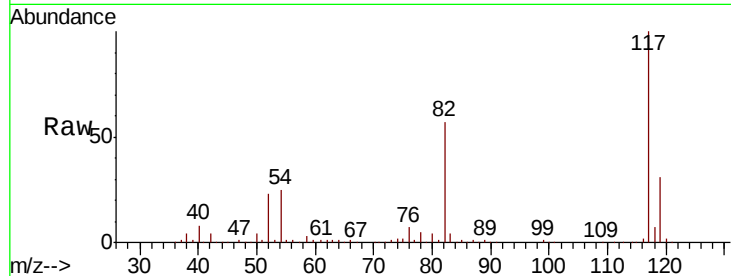




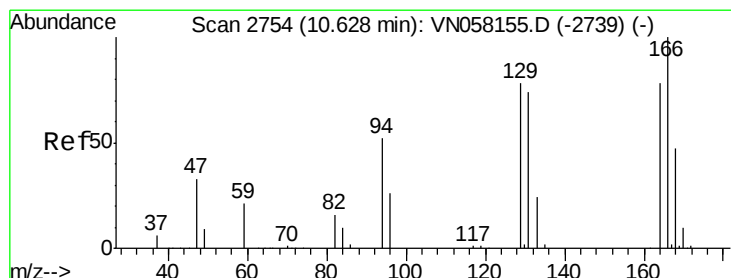
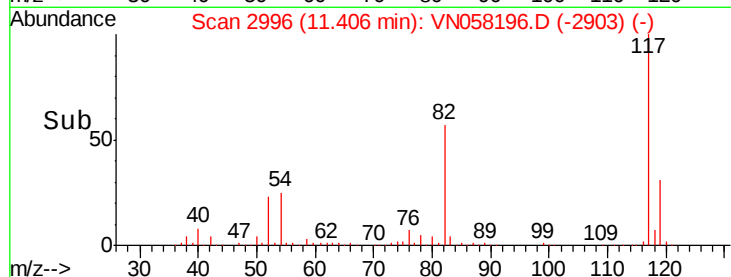
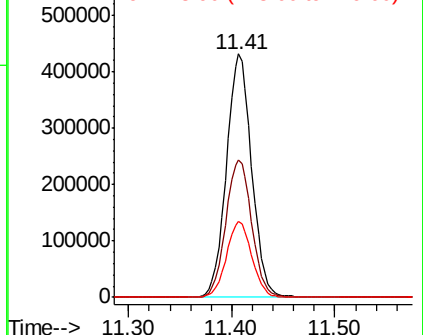
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058196.D
Acq: 19 Sep 2019 11:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 733514
Ion Ratio Lower Upper
117 100
82 56.7 46.9 70.3
119 31.0 25.3 37.9

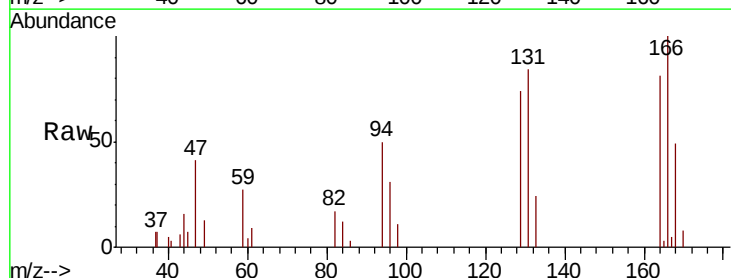


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

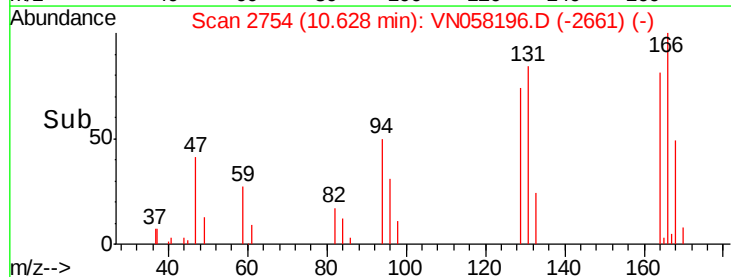
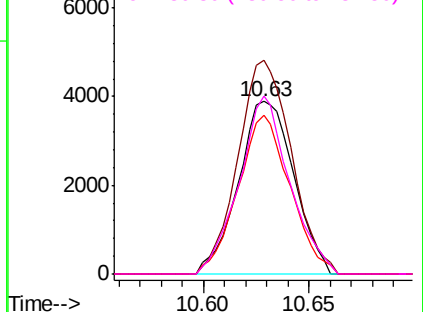


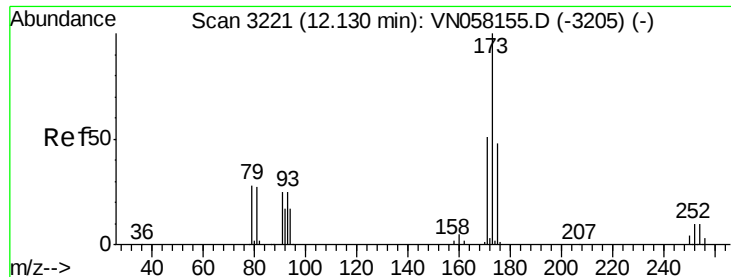
#64
Tetrachloroethene
Concen: 1.985 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058196.D
Acq: 19 Sep 2019 11:40

Tgt Ion:164 Resp: 7098
Ion Ratio Lower Upper
164 100
166 123.7 102.2 153.4
129 92.2 79.6 119.4
131 103.4 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: 3.665 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Instrument :

MSVOA_N

ClientSampleId :

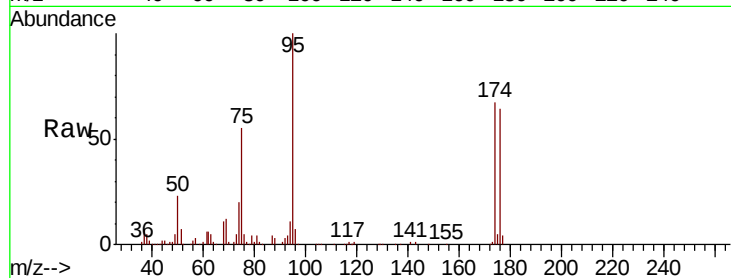
Tot Ion:173 Resp: 262

Ion Ratio Lower Upper

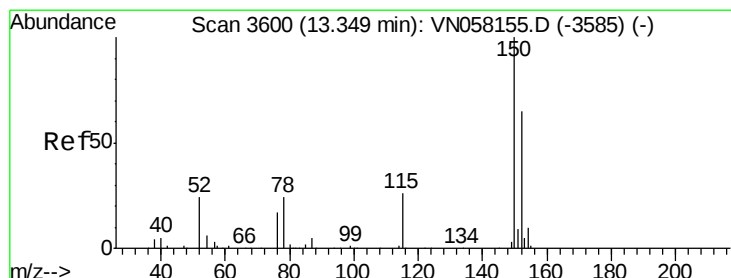
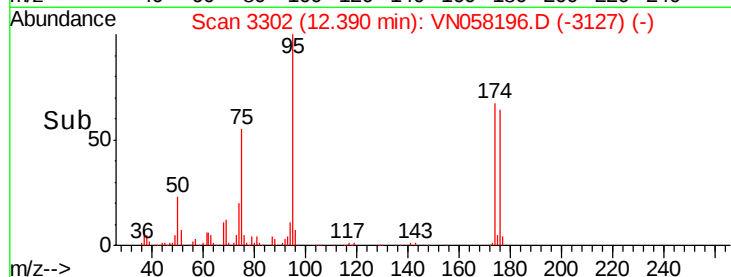
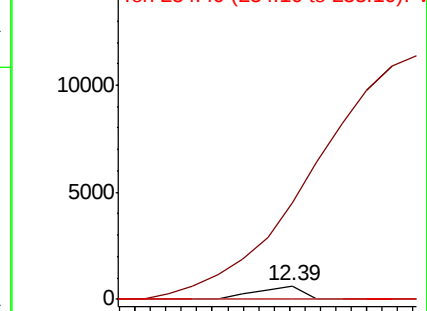
173 100

175 6288.2 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: VN058196.D

Acq: 19 Sep 2019 11:40

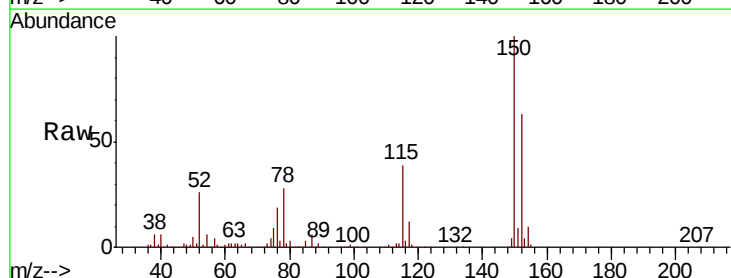
Tgt Ion:152 Resp: 301190

Ion Ratio Lower Upper

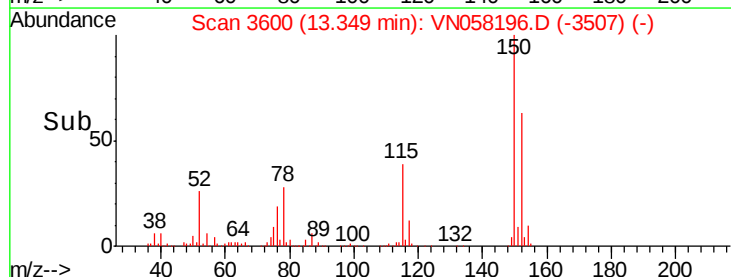
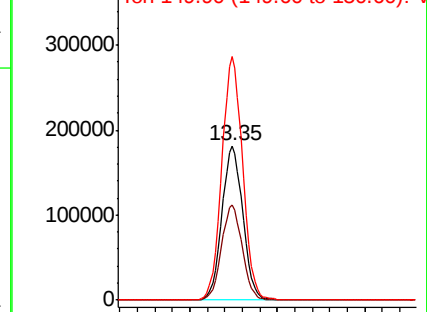
152 100

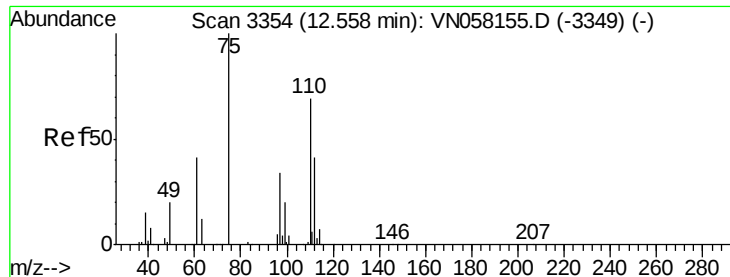
115 60.7 30.1 90.3

150 156.9 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: 34.289 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

Instrument :

MSVOA_N

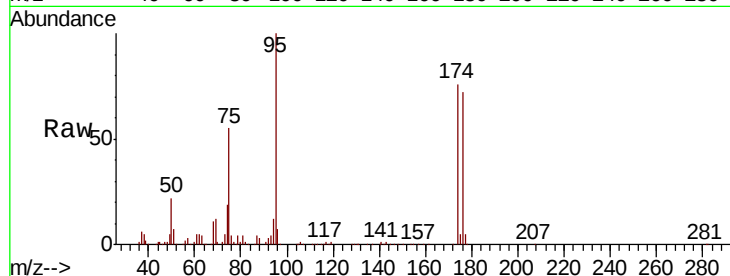
ClientSampleId :

Tot Ion: 75 Resp: 184831

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

120000

100000

80000

60000

40000

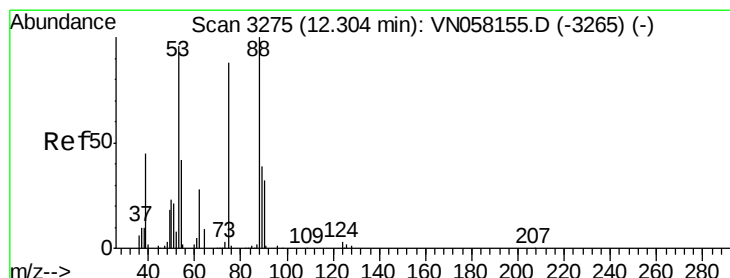
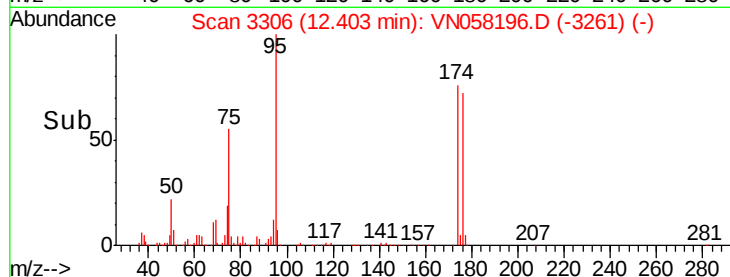
20000

0

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 96.036 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058196.D

Acq: 19 Sep 2019 11:40

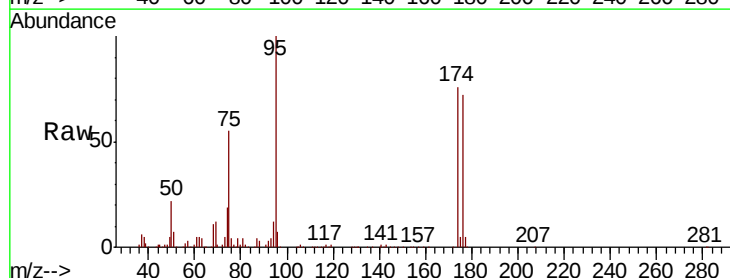
Tgt Ion: 75 Resp: 184831

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

150000

100000

50000

0

12.40

12.50

Time-->

