

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058281.D
 Acq On : 23 Sep 2019 11:06
 Operator : JC/SP
 Sample : K4975-10 25X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:29:46 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	479529	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	787699	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	674144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	264433	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	360034	53.91	ug/l	0.00
Spiked Amount			Recovery	=	107.82%	
35) Dibromofluoromethane	7.58	113	250462	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
50) Toluene-d8	10.09	98	999162	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
62) 4-Bromofluorobenzene	12.41	95	311345	44.92	ug/l	0.00
Spiked Amount			Recovery	=	89.84%	

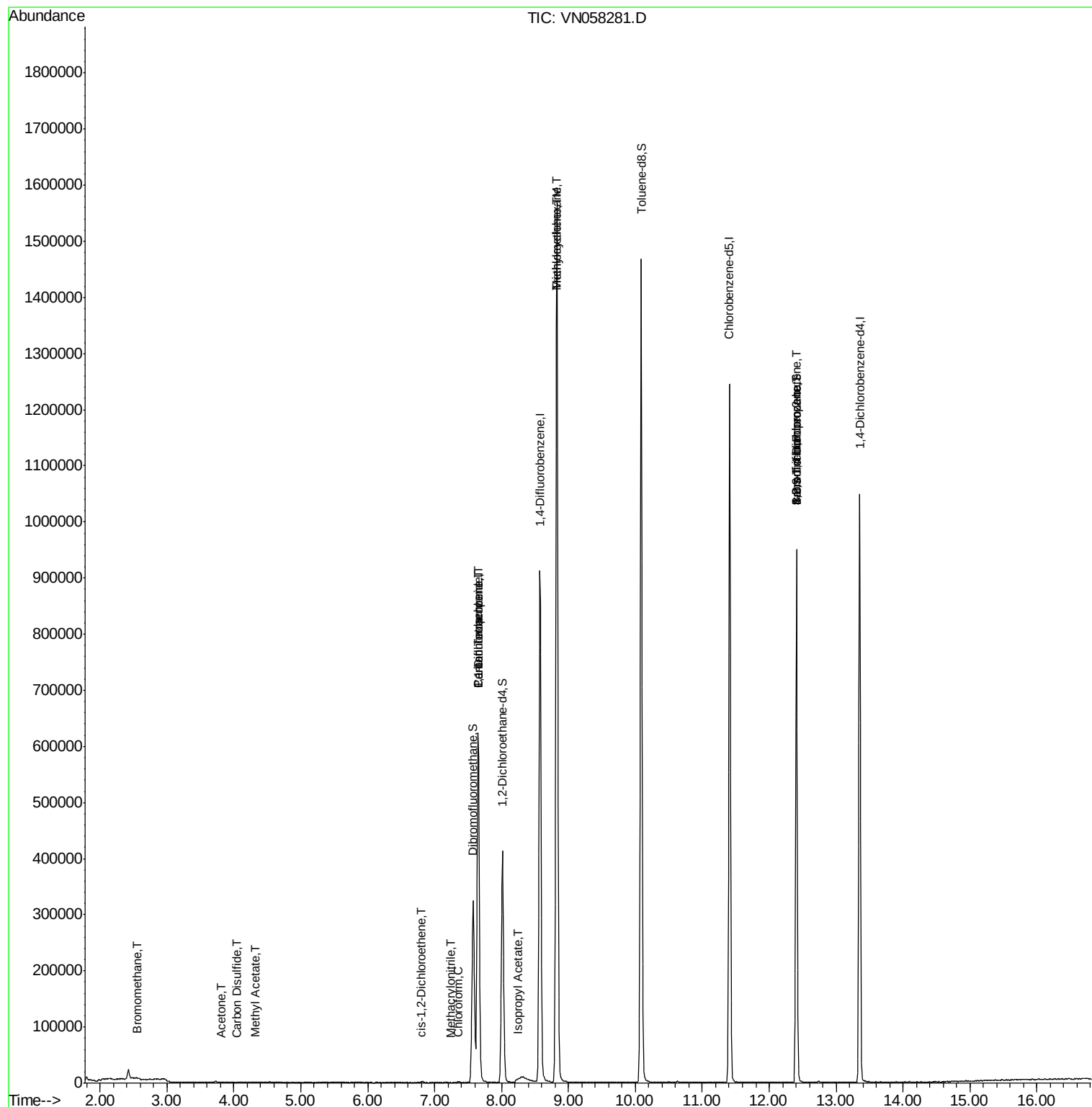
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	522	Below Cal	#	42
5) Bromomethane	2.56	94	101	0.779	ug/l	85
6) Chloroethane	2.80	64	33	Below Cal	#	44
12) 1,1-Dichloroethene	3.73	96	665	Below Cal	#	52
16) Acetone	3.82	43	837	0.369	ug/l #	45
17) Carbon Disulfide	4.03	76	66	0.287	ug/l #	74
18) Methyl Acetate	4.32	43	1663	0.279	ug/l #	73
20) Methylene Chloride	4.55	84	573	Below Cal	#	32
27) cis-1,2-Dichloroethene	6.80	96	1139	0.234	ug/l	31
30) Chloroform	7.35	83	2305	0.249	ug/l #	80
31) Cyclohexane	7.65	56	12185	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	40867	7.194	ug/l #	50
38) Carbon Tetrachloride	7.65	117	48514	8.496	ug/l #	15
39) Methylcyclohexane	8.82	83	7857	1.499	ug/l #	1
41) Methacrylonitrile	7.25	41	30	0.921	ug/l #	100
43) Isopropyl Acetate	8.25	43	6357	0.577	ug/l #	57
44) Trichloroethene	8.82	130	544775	128.309	ug/l	99
71) Bromoform	12.40	173	373	3.704	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	172970	36.549	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	172970	101.985	ug/l #	5

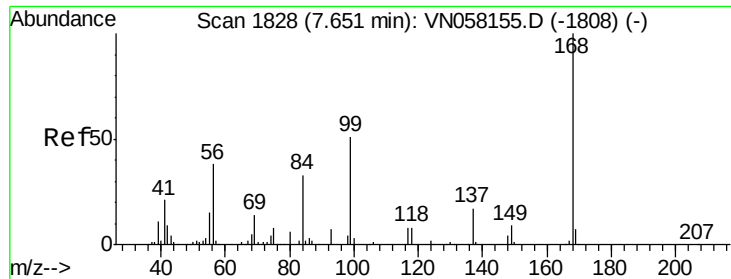
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1829

Delta R.T. 0.00 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

Instrument :

MSVOA_N

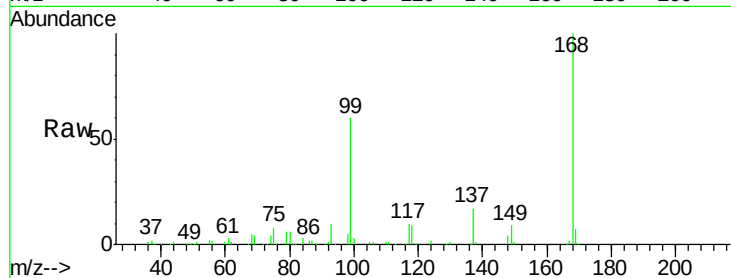
ClientSampleId :

Tot Ion:168 Resp: 479529

Ion Ratio Lower Upper

168 100

99 60.4 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

200000

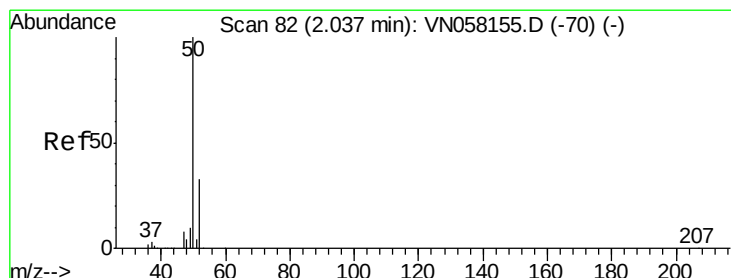
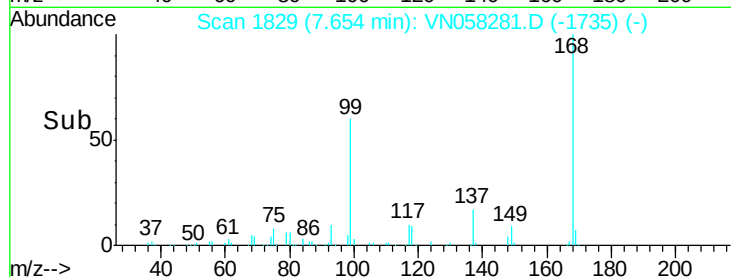
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058281.D

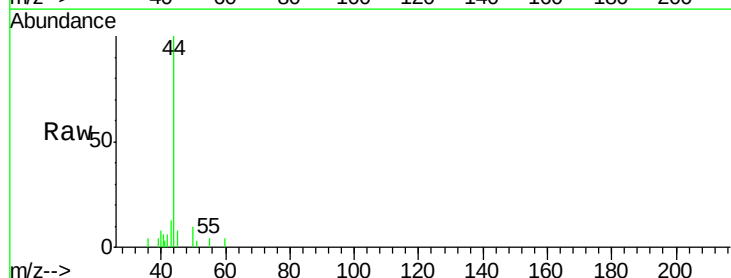
Acq: 23 Sep 2019 11:06

Tgt Ion: 50 Resp: 522

Ion Ratio Lower Upper

50 100

52 0.0 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

500

400

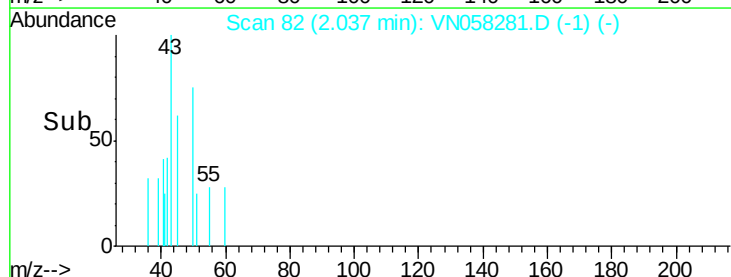
300

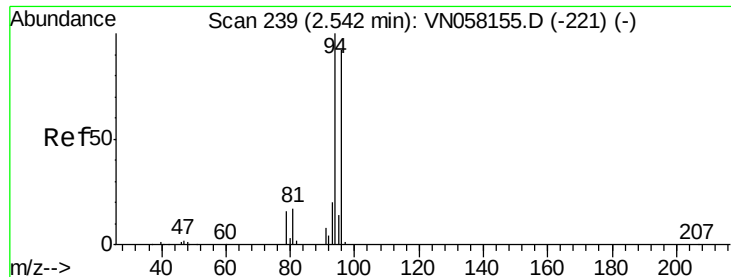
200

100

0

Time-->

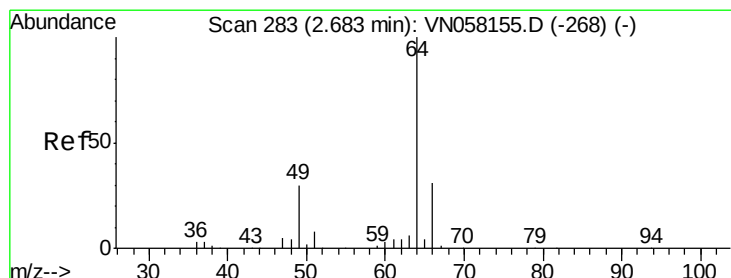
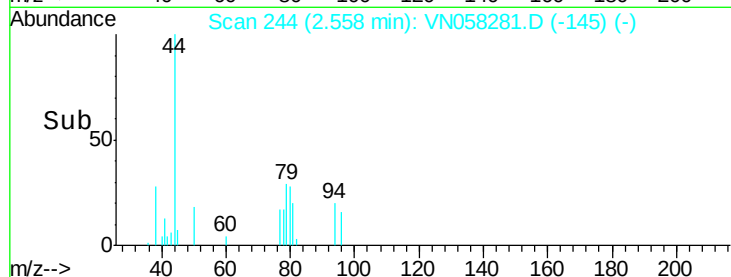
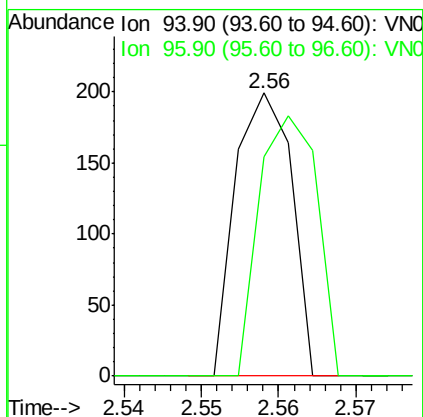
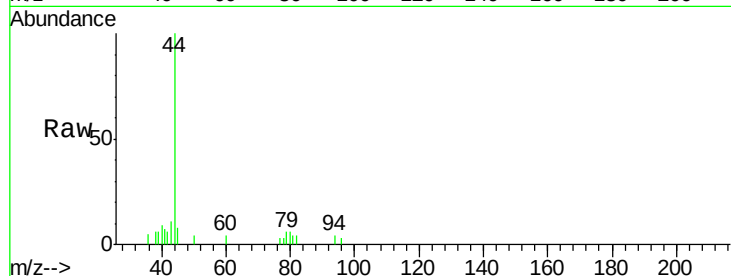




#5
Bromomethane
Concen: 0.779 ug/l
RT: 2.56 min Scan# 244
Delta R.T. 0.02 min
Lab File: VN058281.D
Acq: 23 Sep 2019 11:06

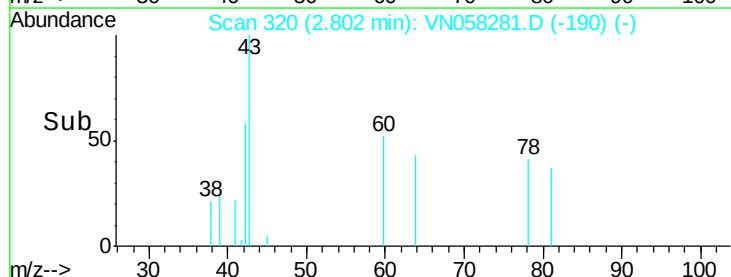
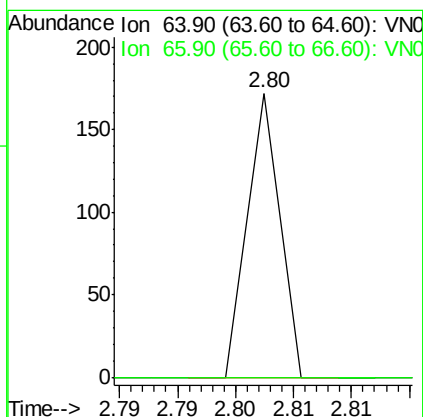
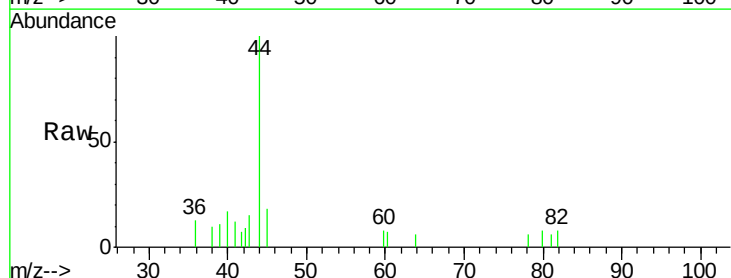
Instrument :
MSVOA_N
ClientSampled :

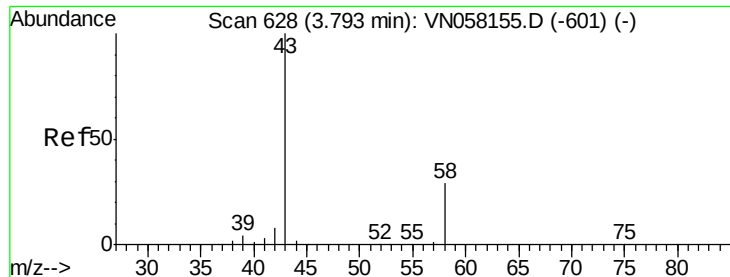
Tot Ion: 94 Resp: 101
Ion Ratio Lower Upper
94 100
96 77.4 73.3 109.9



#6
Chloroethane
Concen: Below Cal
RT: 2.80 min Scan# 320
Delta R.T. 0.12 min
Lab File: VN058281.D
Acq: 23 Sep 2019 11:06

Tgt Ion: 64 Resp: 33
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#





#16

Acetone

Concen: 0.369 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.02 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

Instrument :

MSVOA_N

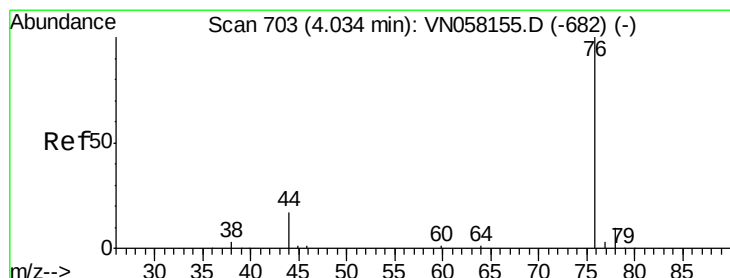
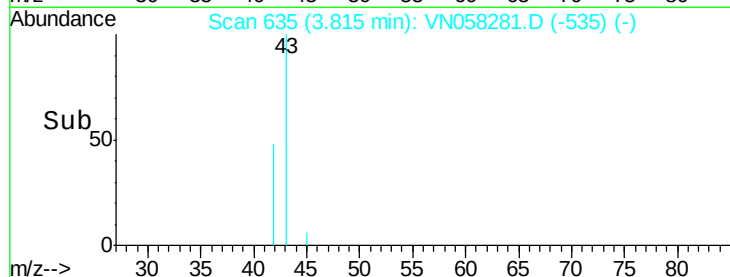
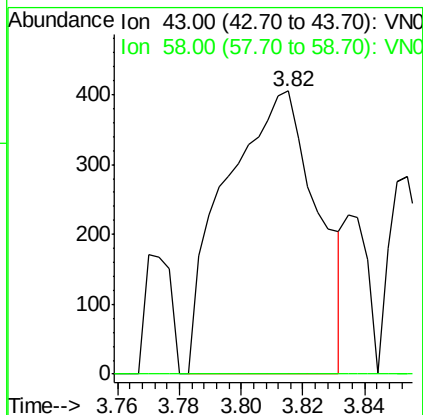
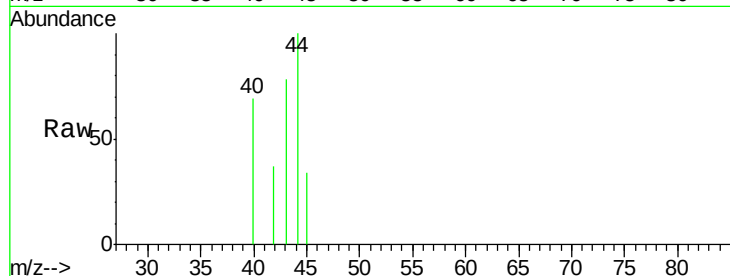
ClientSampled :

Tot Ion: 43 Resp: 837

Ion Ratio Lower Upper

43 100

58 0.0 23.4 35.2#



#17

Carbon Disulfide

Concen: 0.287 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058281.D

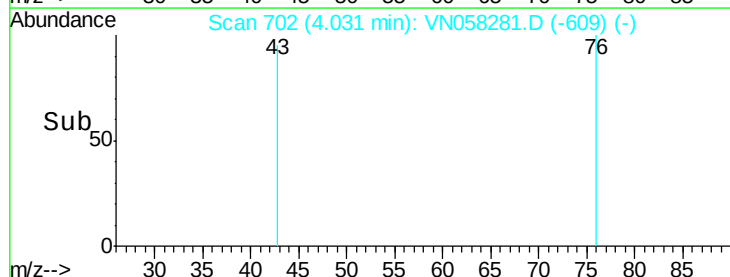
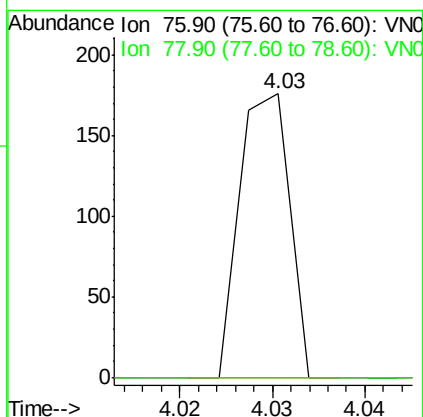
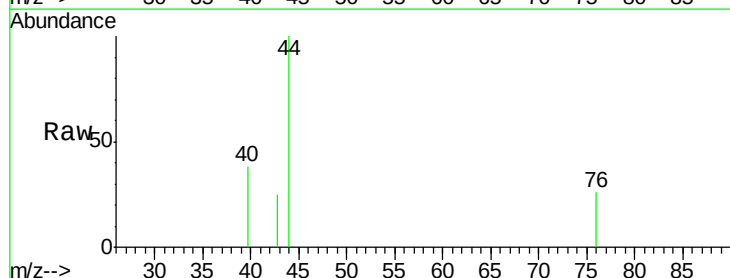
Acq: 23 Sep 2019 11:06

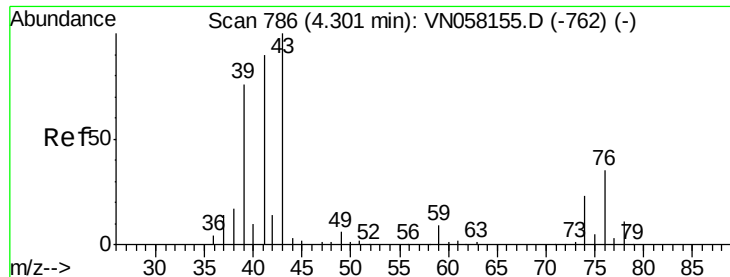
Tgt Ion: 76 Resp: 66

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#

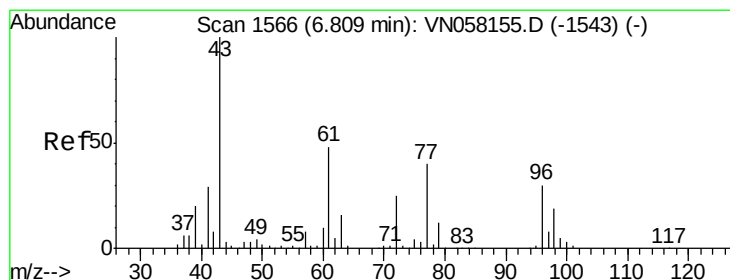
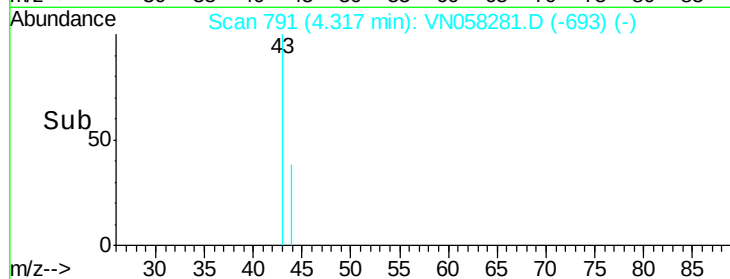
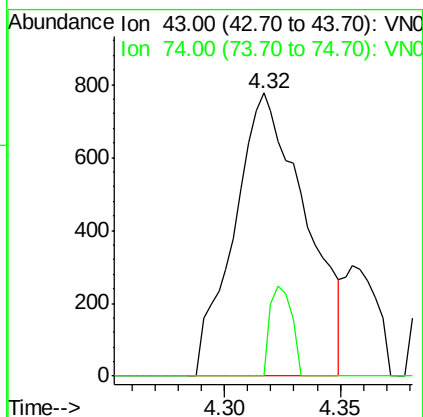
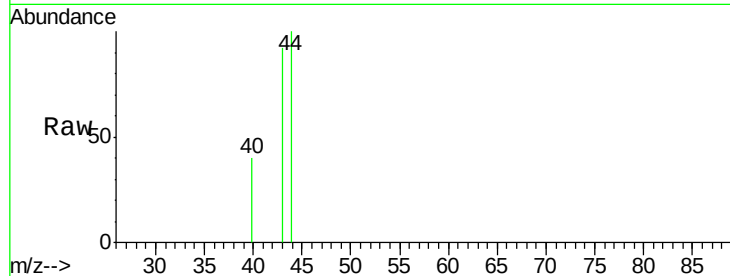




#18
Methvl Acetate
Concen: 0.279 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN058281.D
Acq: 23 Sep 2019 11:06

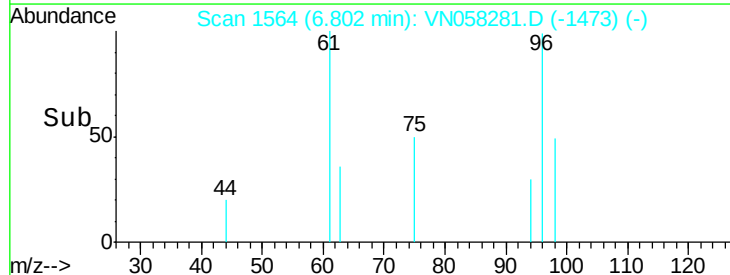
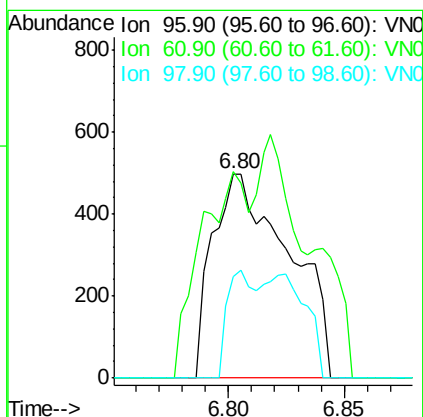
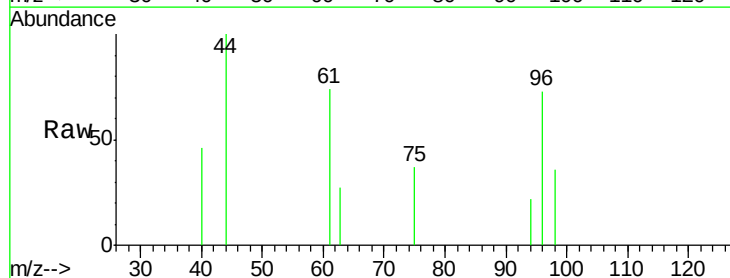
Instrument :
MSVOA_N
ClientSampled :

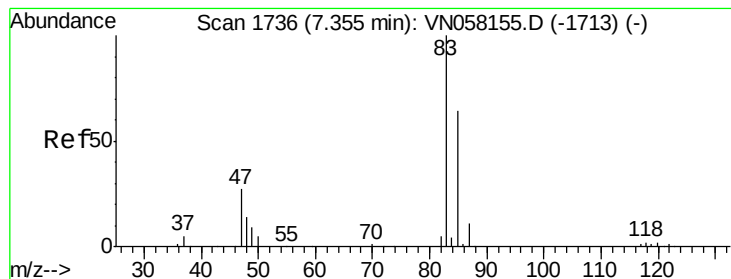
Tot Ion: 43 Resp: 1663
Ion Ratio Lower Upper
43 100
74 9.6 18.0 27.0#



#27
cis-1,2-Dichloroethene
Concen: 0.234 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VN058281.D
Acq: 23 Sep 2019 11:06

Tgt Ion: 96 Resp: 1139
Ion Ratio Lower Upper
96 100
61 62.2 0.0 319.0
98 19.0 0.0 126.6





#30

Chloroform

Concen: 0.249 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. -0.00 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

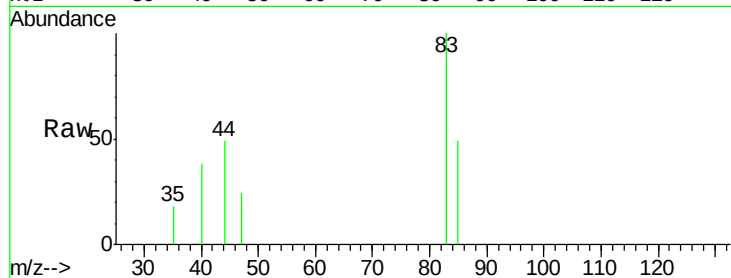
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 2305

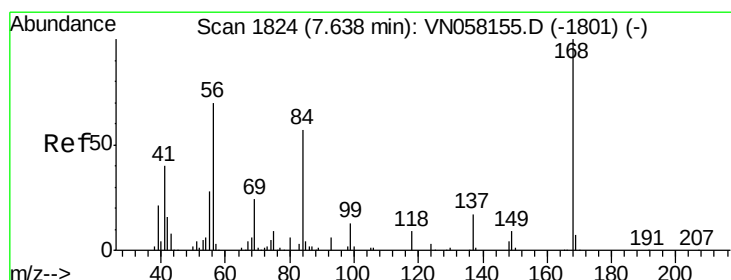
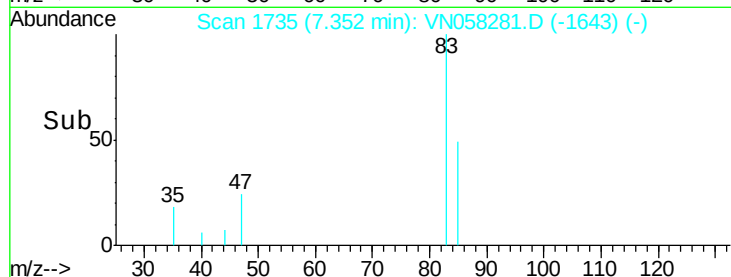
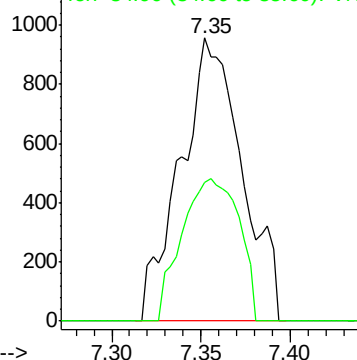
Ion Ratio Lower Upper

83 100

85 48.8 51.4 77.2#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

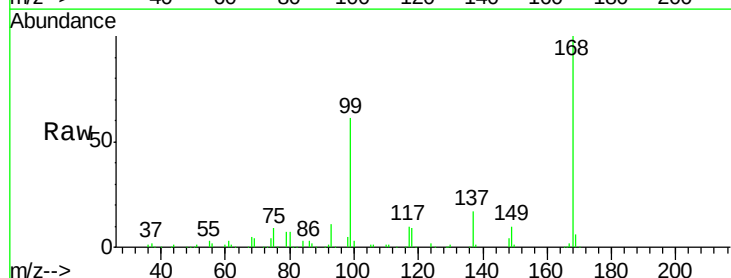
Tgt Ion: 56 Resp: 12185

Ion Ratio Lower Upper

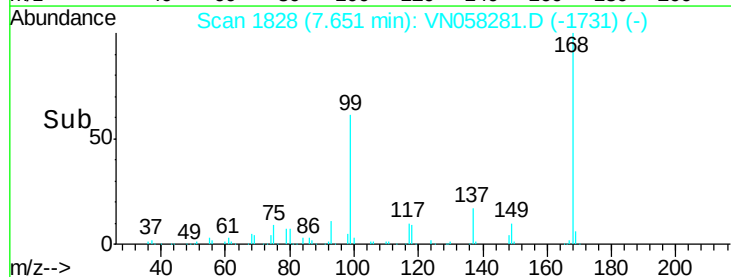
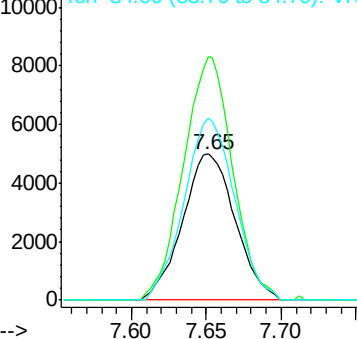
56 100

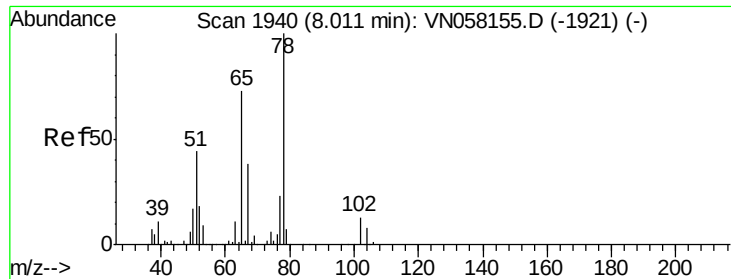
69 166.8 27.3 40.9#

84 125.0 65.0 97.4#



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

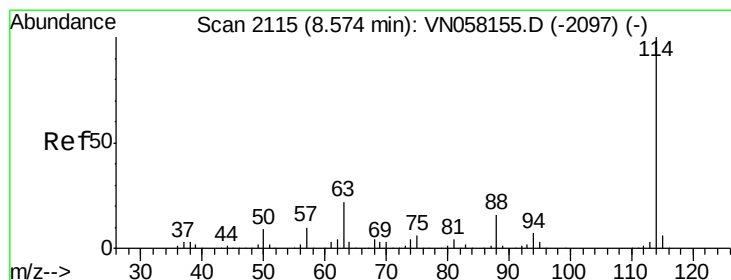
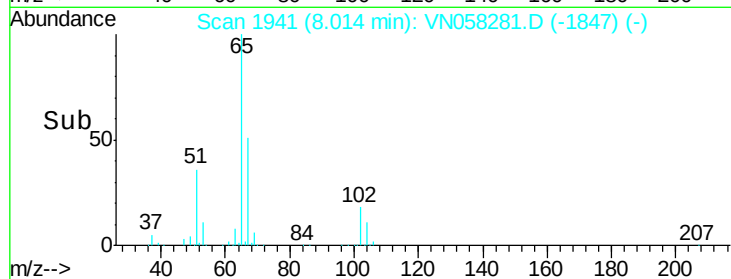
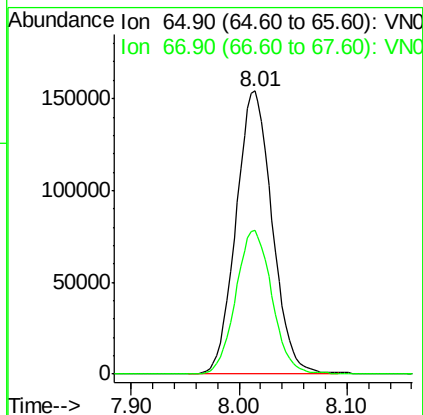
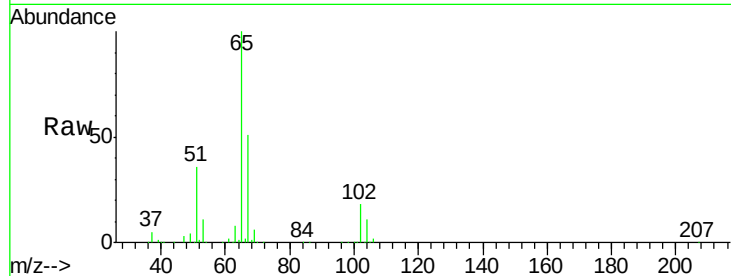




#33
 1,2-Dichloroethane-d4
 Concen: 53.906 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058281.D
 Acq: 23 Sep 2019 11:06

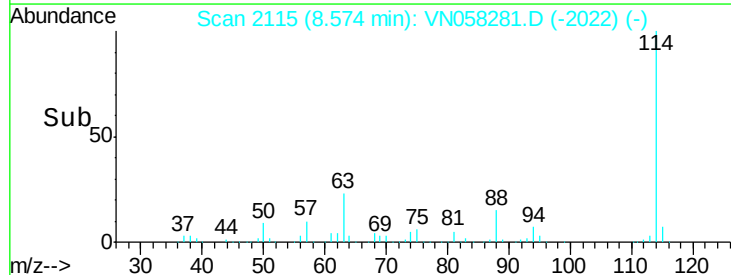
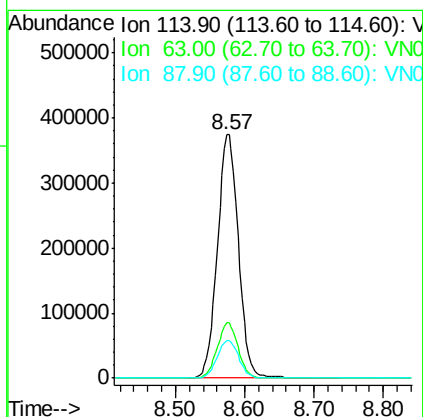
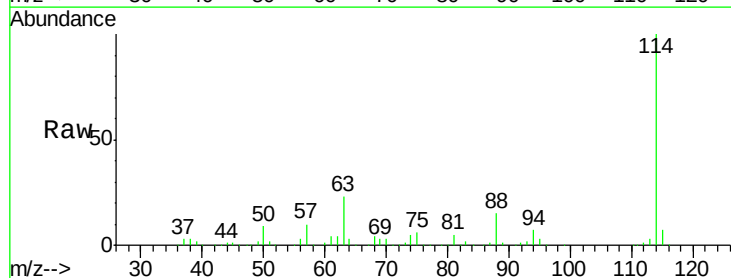
Instrument :
 MSVOA_N
 ClientSampleId :

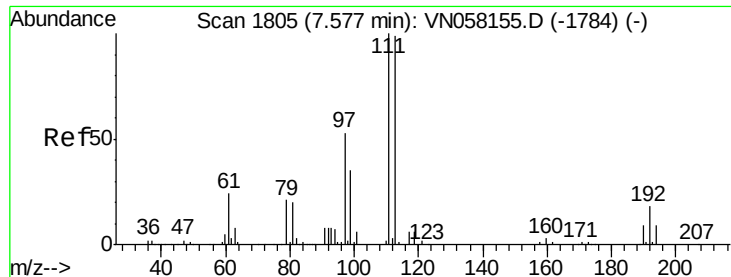
Tot Ion: 65 Resp: 360034
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058281.D
 Acq: 23 Sep 2019 11:06

Tgt Ion: 114 Resp: 787699
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 44.2
 88 15.3 0.0 31.6

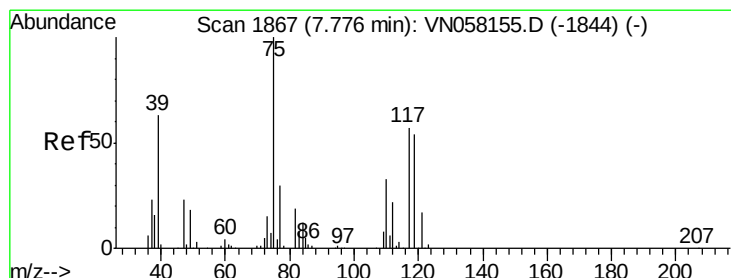
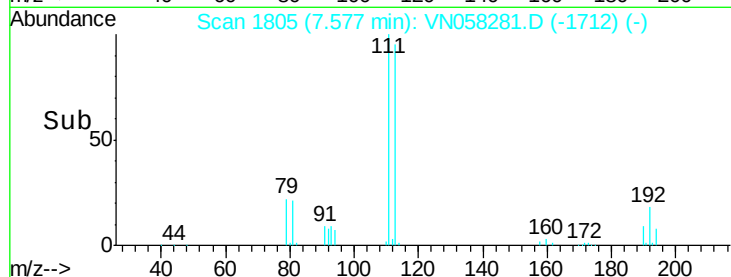
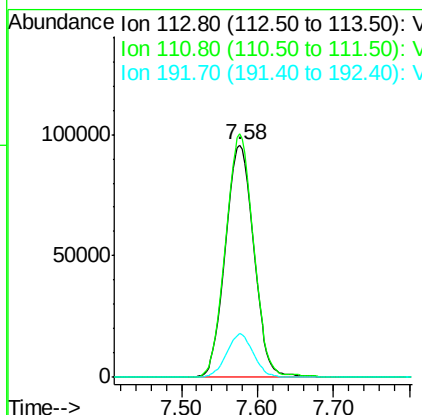
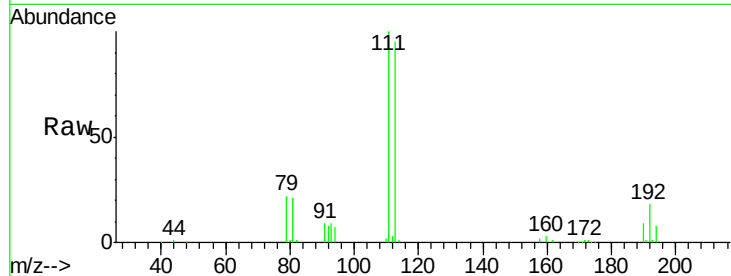




#35
 Dibromofluoromethane
 Concen: 52.304 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058281.D
 Acq: 23 Sep 2019 11:06

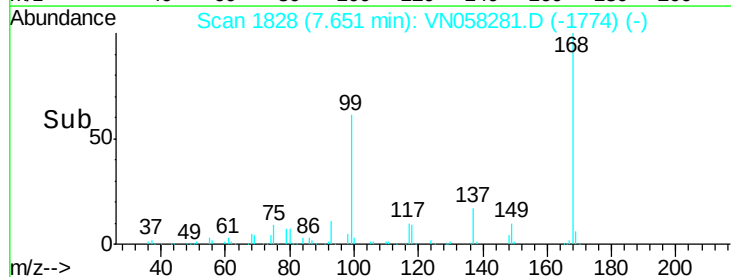
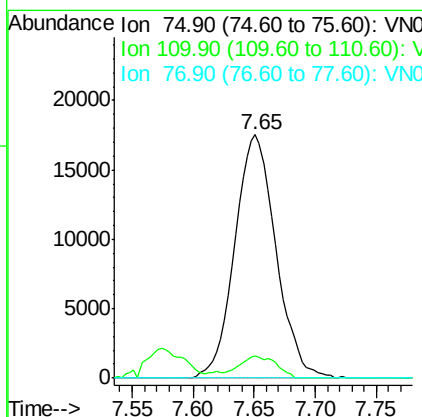
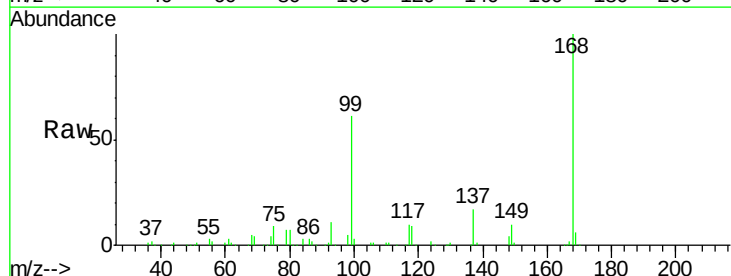
Instrument :
 MSVOA_N
 ClientSampled :

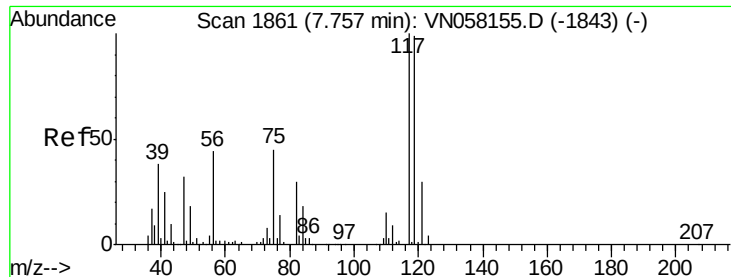
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	17.7	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.194 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058281.D
 Acq: 23 Sep 2019 11:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.496 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

Instrument :

MSVOA_N

ClientSampleId :

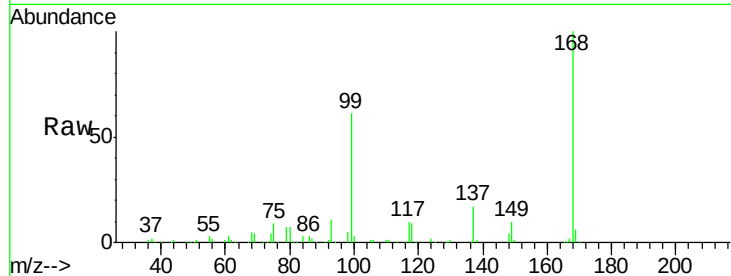
Tot Ion:117 Resp: 48514

Ion Ratio Lower Upper

117 100

119 4.9 78.6 117.8#

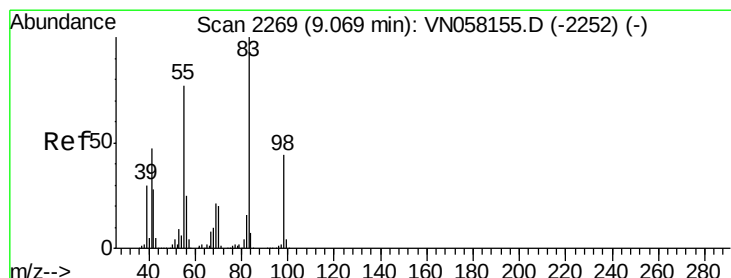
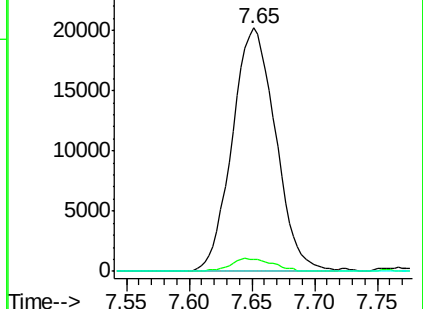
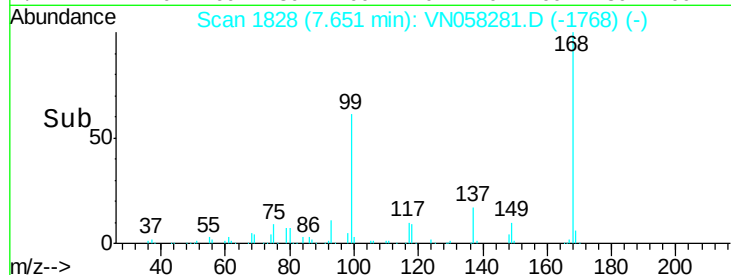
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.499 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.24 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

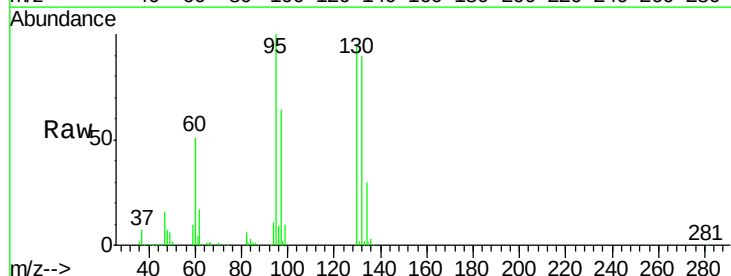
Tgt Ion: 83 Resp: 7857

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

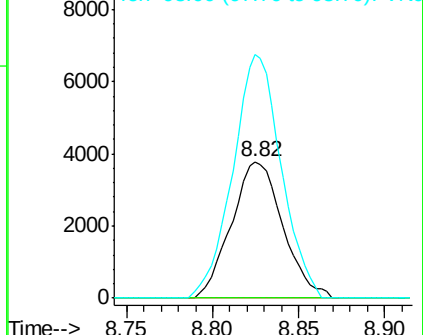
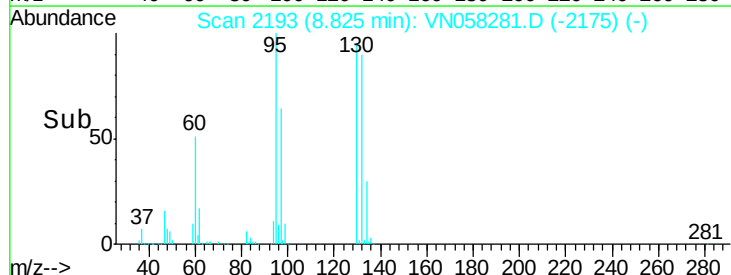
98 178.6 35.4 53.2#

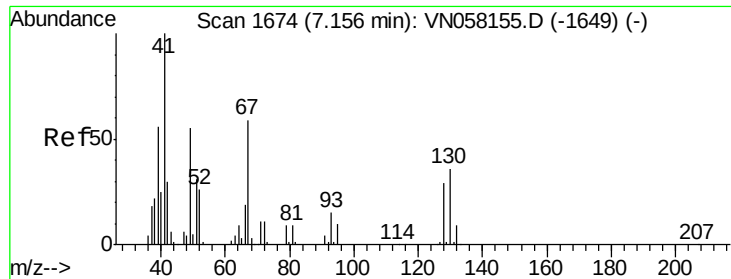


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

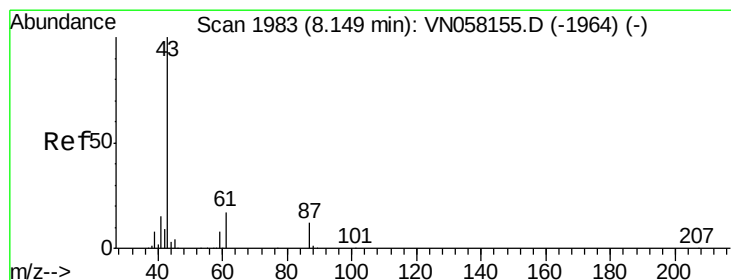
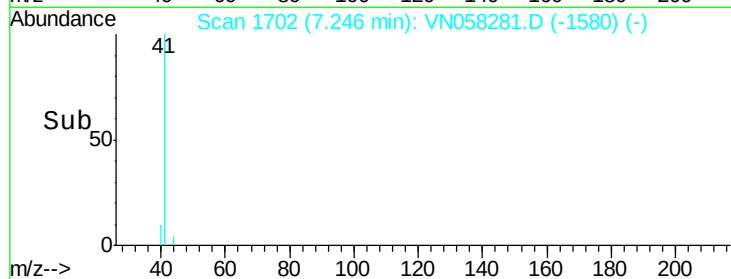
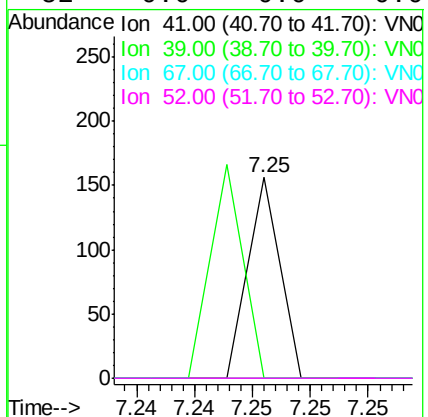
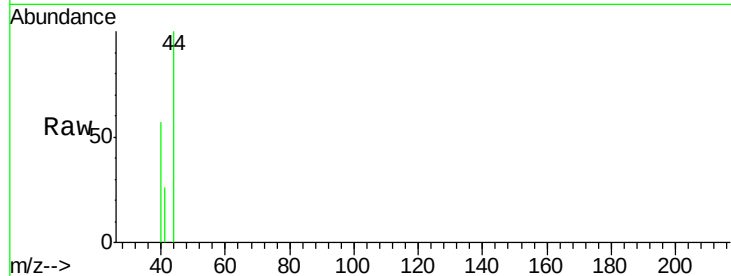




#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.25 min Scan# 1702
Delta R.T. 0.09 min
Lab File: VN058281.D
Acq: 23 Sep 2019 11:06

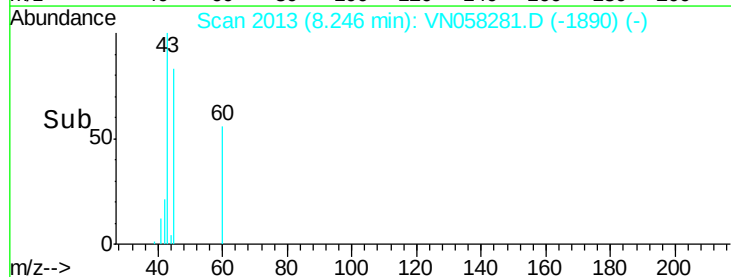
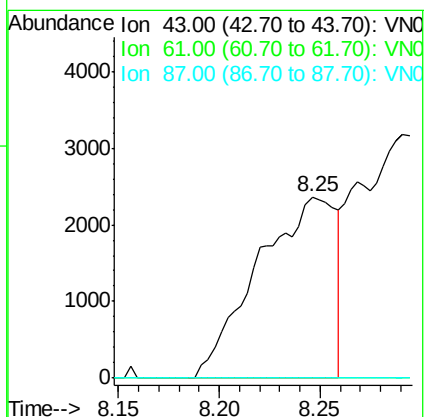
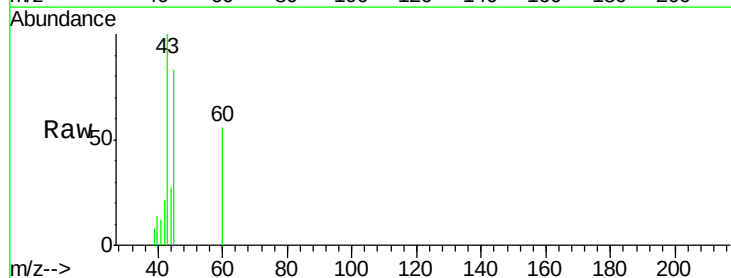
Instrument :
MSVOA_N
ClientSampled :

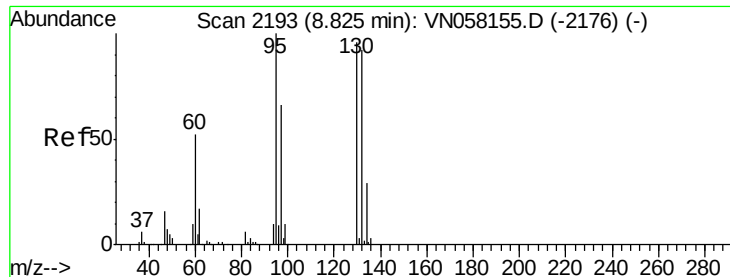
Tot Ion:	41	Resp:	30
Ion	Ratio	Lower	Upper
41	100		
39	106.7	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 0.577 ug/l
RT: 8.25 min Scan# 2013
Delta R.T. 0.10 min
Lab File: VN058281.D
Acq: 23 Sep 2019 11:06

Tgt Ion:	43	Resp:	6357
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 128.309 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

Instrument :

MSVOA_N

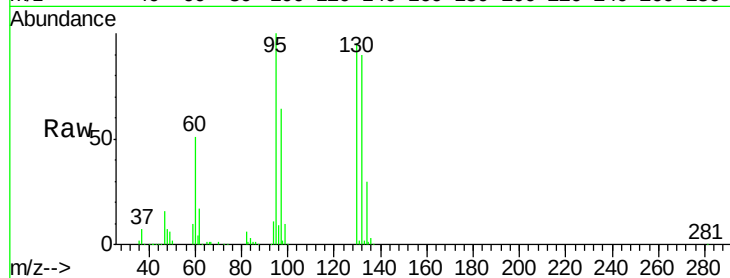
ClientSampled :

Tot Ion:130 Resp: 544775

Ion Ratio Lower Upper

130 100

95 105.3 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058281.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058281.D (-2176) (-)

8.82

300000

250000

200000

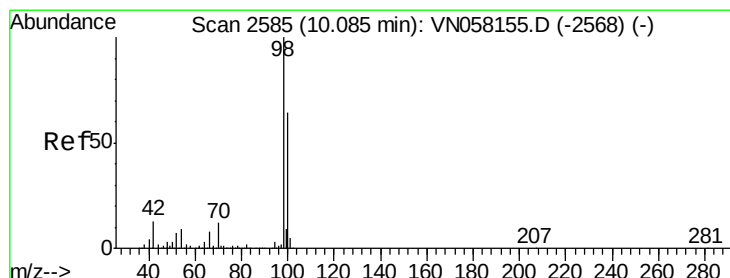
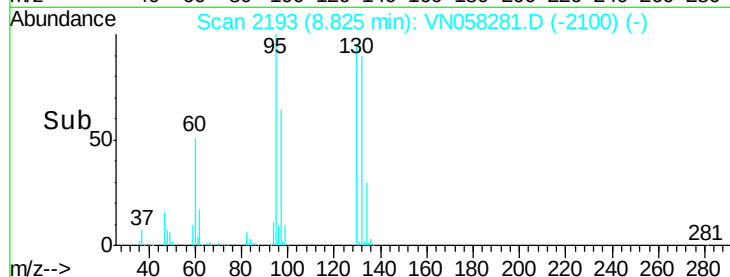
150000

100000

50000

0

Time--> 8.70 8.80 8.90



#50

Toluene-d8

Concen: 53.554 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058281.D

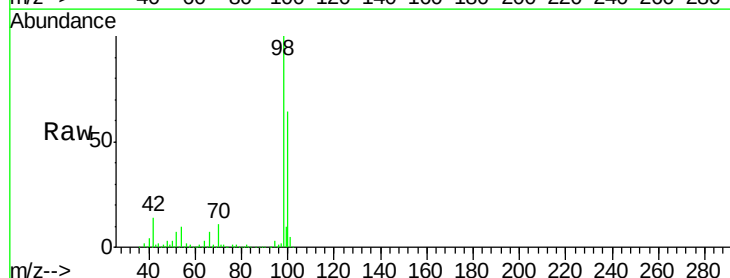
Acq: 23 Sep 2019 11:06

Tgt Ion: 98 Resp: 999162

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058281.D (-2492) (-)

Ion 100.00 (99.70 to 100.70): VN058281.D (-2492) (-)

10.09

600000

500000

400000

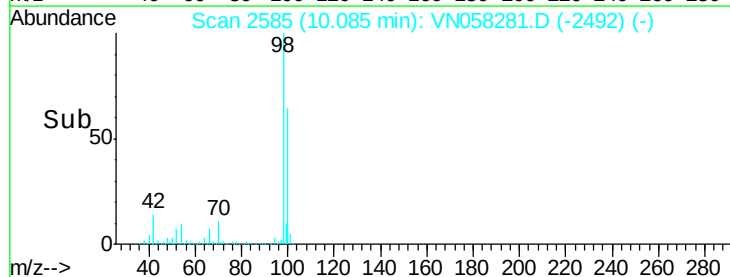
300000

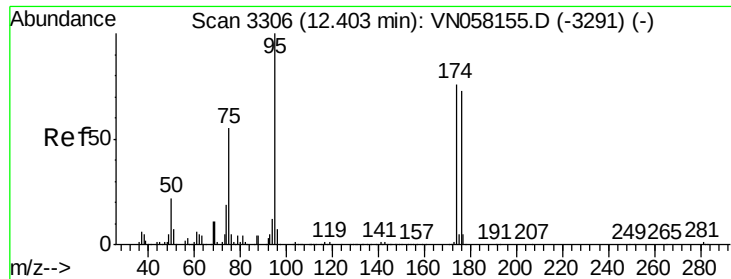
200000

100000

0

Time--> 10.00 10.10 10.20





#62

4-Bromofluorobenzene

Concen: 44.924 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

Instrument :

MSVOA_N

ClientSampleId :

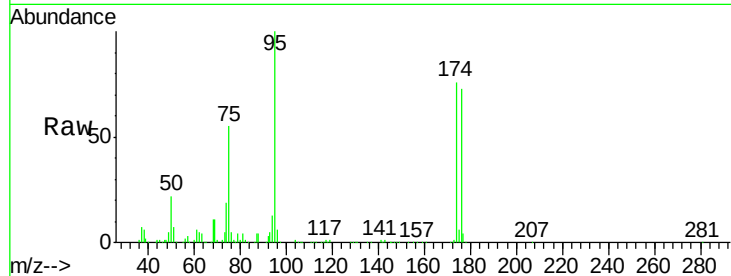
Tot Ion: 95 Resp: 311345

Ion Ratio Lower Upper

95 100

174 75.9 0.0 152.2

176 72.9 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)

12.41

200000

150000

100000

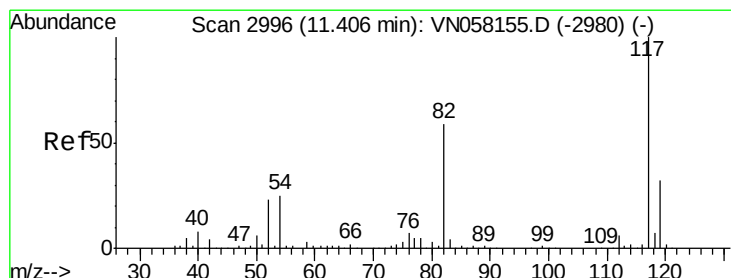
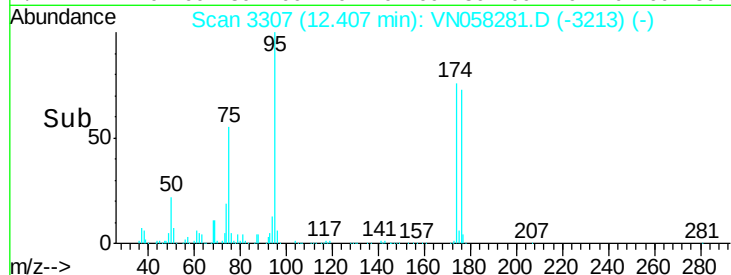
50000

0

12.40

12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

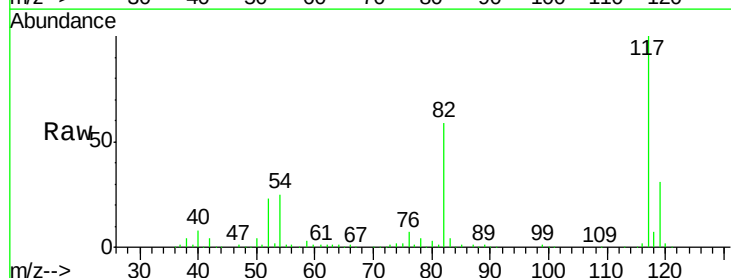
Tgt Ion: 117 Resp: 674144

Ion Ratio Lower Upper

117 100

82 58.8 46.9 70.3

119 31.1 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)

11.41

500000

400000

300000

200000

100000

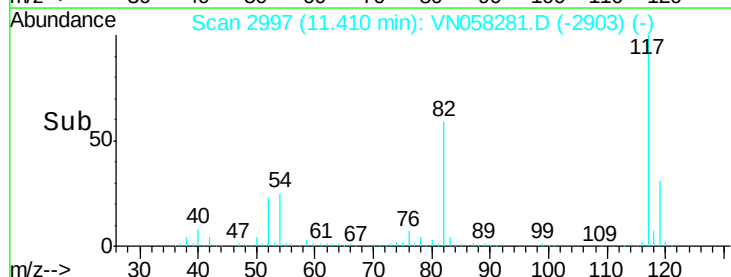
0

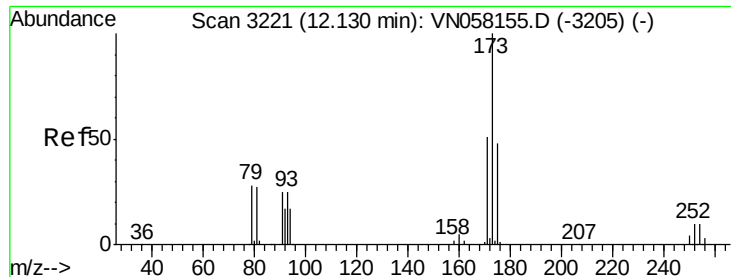
11.30

11.40

11.50

Time-->





#71

Bromoform

Concen: 3.704 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

Instrument :

MSVOA_N

ClientSampled :

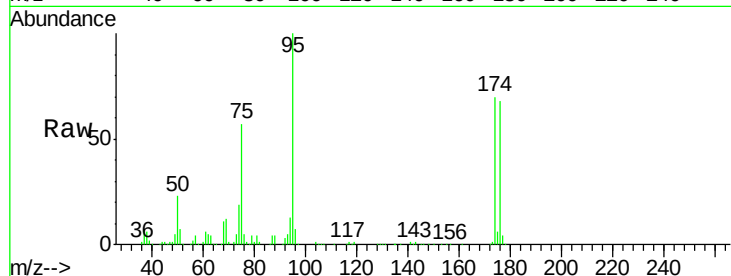
Tot Ion:173 Resp: 373

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

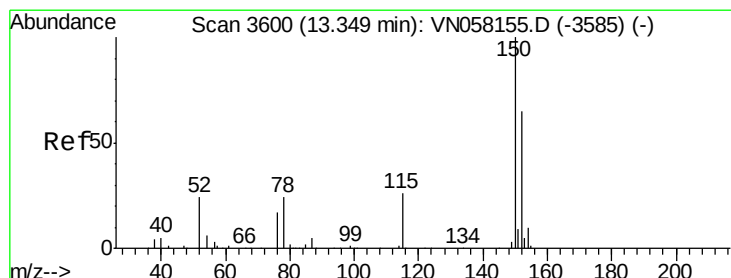
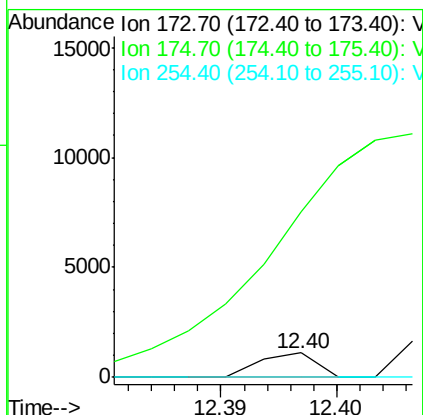
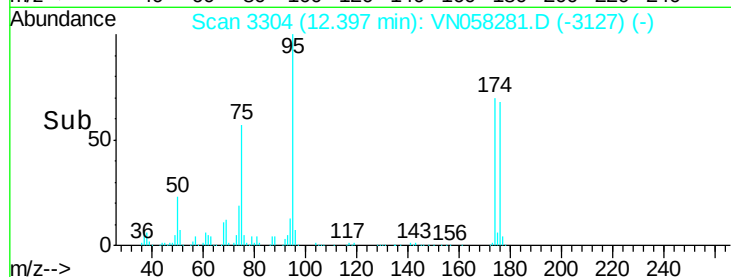
254 0.0 0.1 0.1#



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: VN058281.D

Acq: 23 Sep 2019 11:06

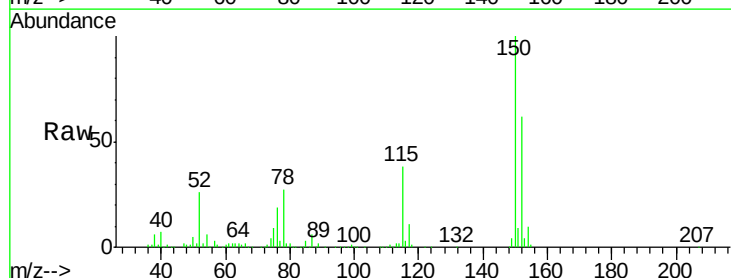
Tgt Ion:152 Resp: 264433

Ion Ratio Lower Upper

152 100

115 61.1 30.1 90.3

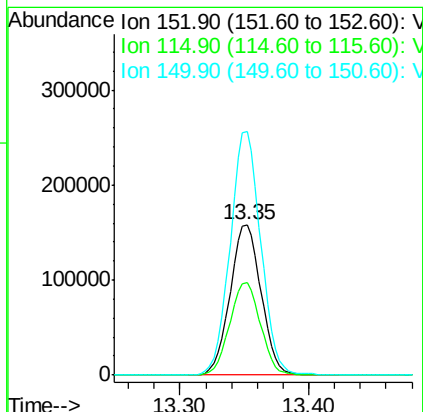
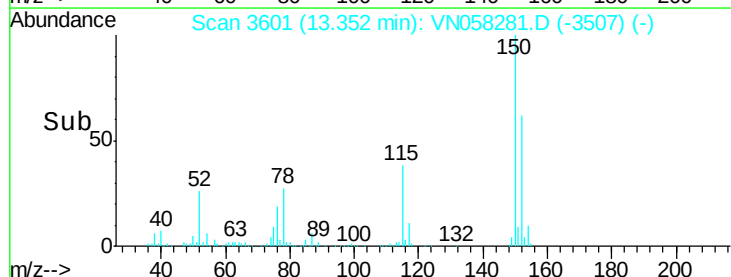
150 159.3 0.0 346.4

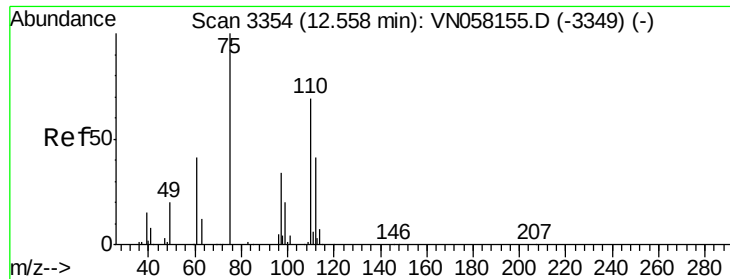


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.549 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

Instrument :

MSVOA_N

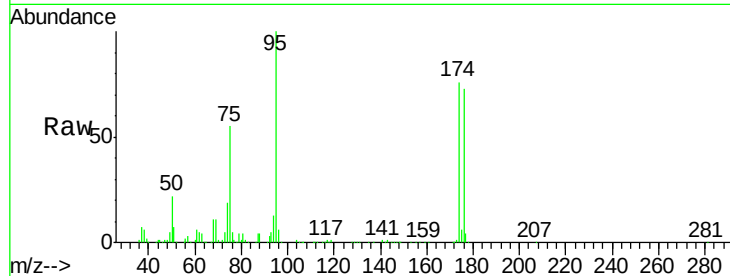
ClientSampled :

Tot Ion: 75 Resp: 172970

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.41

100000

80000

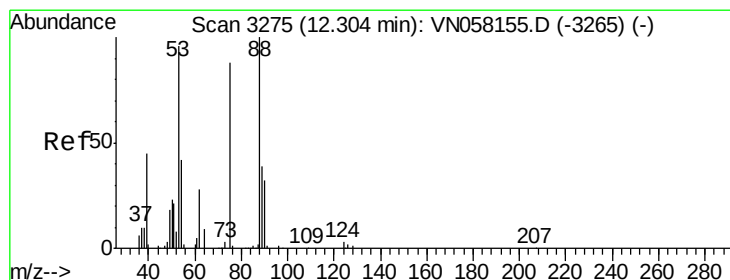
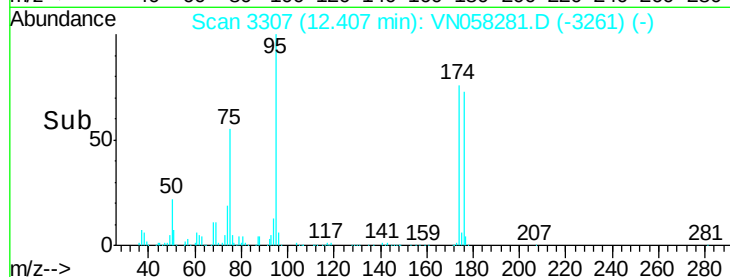
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 101.985 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058281.D

Acq: 23 Sep 2019 11:06

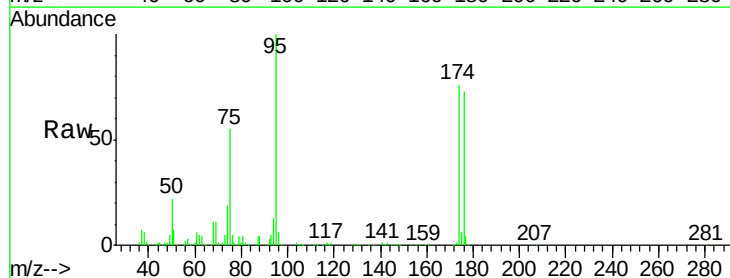
Tgt Ion: 75 Resp: 172970

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

12.41

100000

50000

0

Time-->

