

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058284.D
 Acq On : 23 Sep 2019 12:13
 Operator : JC/SP
 Sample : K4975-16 25X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:29:59 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	490355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	798015	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	682368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	277621	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	356995	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	
35) Dibromofluoromethane	7.58	113	250928	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
50) Toluene-d8	10.08	98	1014319	53.66	ug/l	0.00
Spiked Amount			Recovery	=	107.32%	
62) 4-Bromofluorobenzene	12.41	95	321122	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

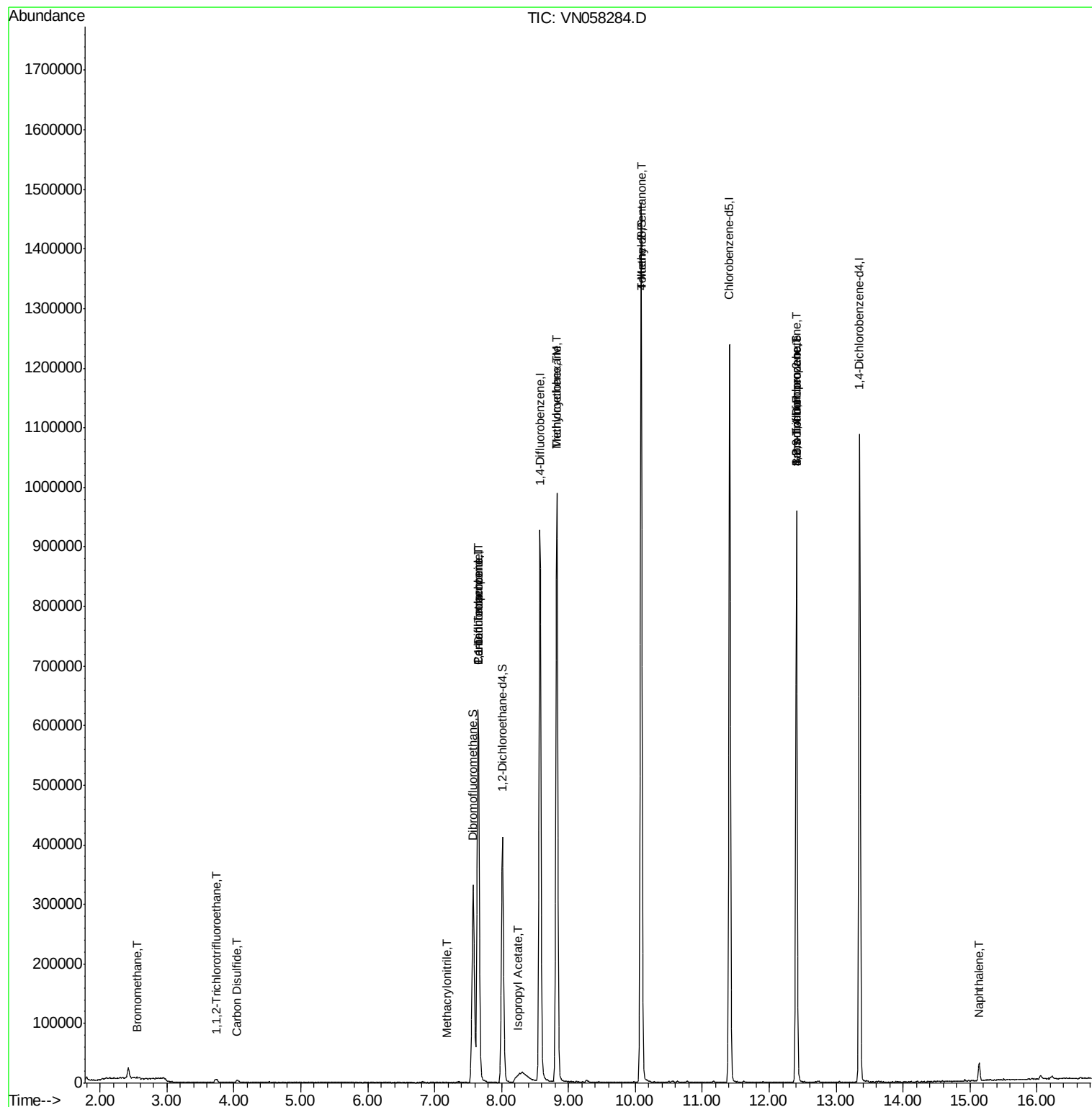
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	469	Below Cal	#	51
5) Bromomethane	2.55	94	373	0.927	ug/l #	4
6) Chloroethane	2.69	64	71	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	3130	0.790	ug/l #	63
12) 1,1-Dichloroethene	3.72	96	717	Below Cal	#	50
17) Carbon Disulfide	4.04	76	331	0.349	ug/l #	74
20) Methylene Chloride	4.52	84	751	Below Cal	#	57
31) Cyclohexane	7.64	56	12049	Below Cal	#	24
36) 1,1-Dichloropropene	7.65	75	42500	7.385	ug/l #	51
38) Carbon Tetrachloride	7.65	117	49420	8.543	ug/l #	14
39) Methylcyclohexane	8.82	83	4335	0.849	ug/l #	1
41) Methacrylonitrile	7.19	41	153	0.961	ug/l #	100
43) Isopropyl Acetate	8.24	43	10147	0.910	ug/l #	57
44) Trichloroethene	8.82	130	338977	78.806	ug/l	99
51) 4-Methyl-2-Pentanone	10.08	43	4882	0.824	ug/l #	1
71) Bromoform	12.41	173	629	3.776	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	176112	35.445	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	176112	99.080	ug/l #	5
95) Naphthalene	15.14	128	24858	1.875	ug/l	98

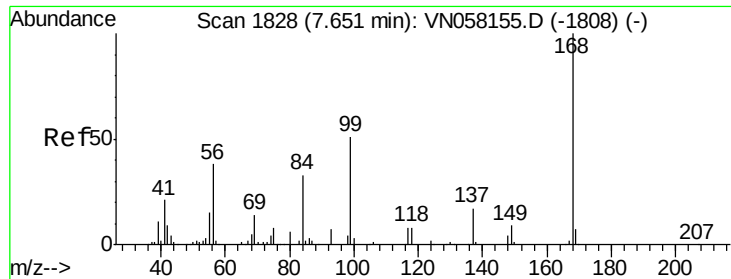
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058284.D

Acq: 23 Sep 2019 12:13

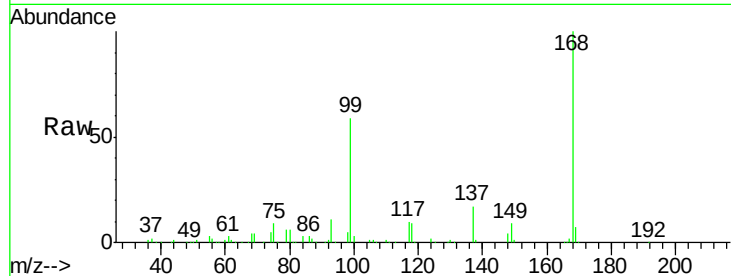
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 490355

Ion Ratio Lower Upper

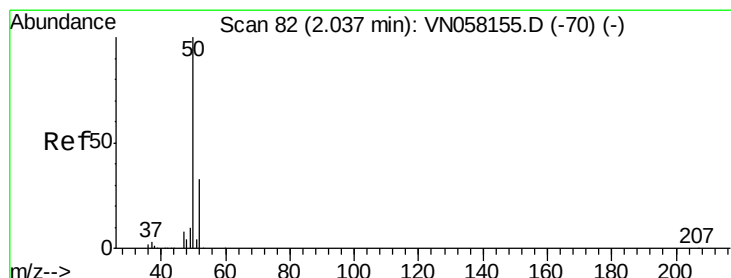
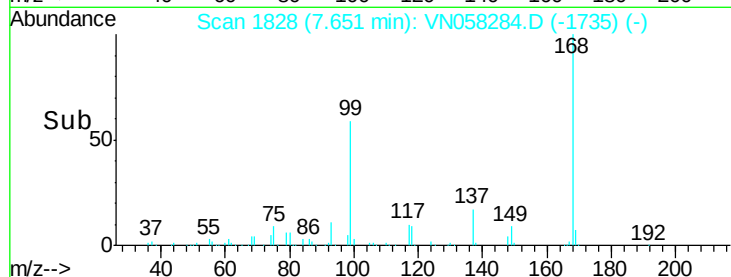
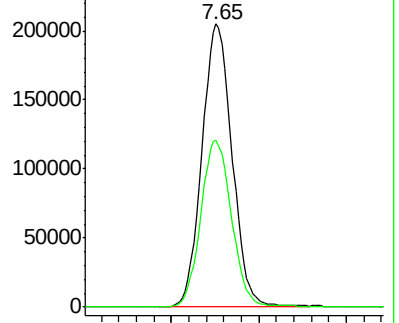
168 100

99 59.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058284.D

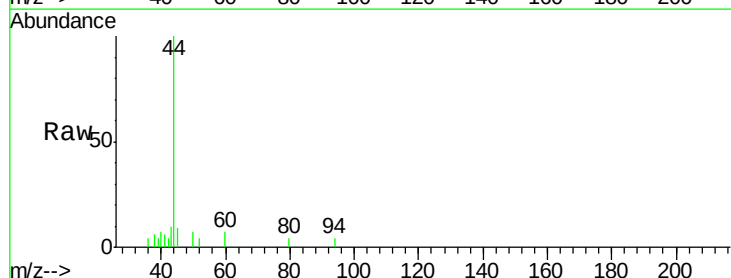
Acq: 23 Sep 2019 12:13

Tgt Ion: 50 Resp: 469

Ion Ratio Lower Upper

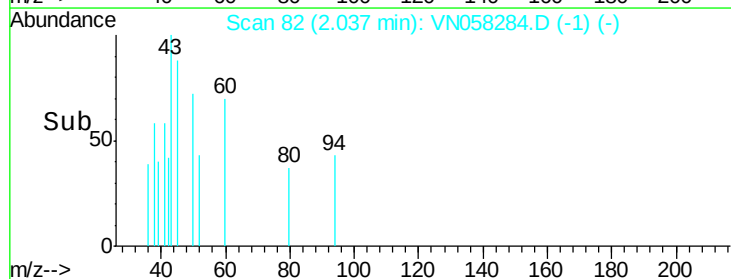
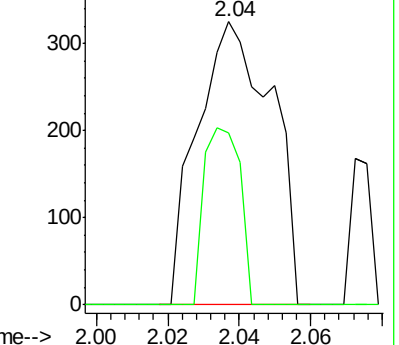
50 100

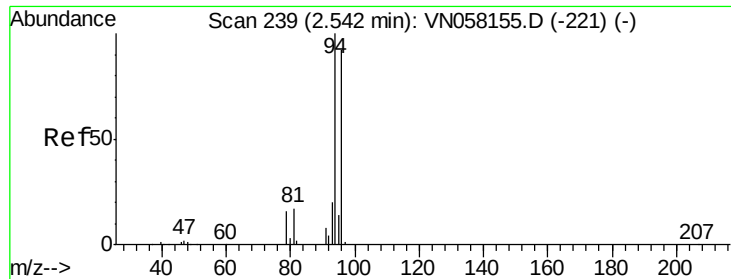
52 60.6 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.927 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

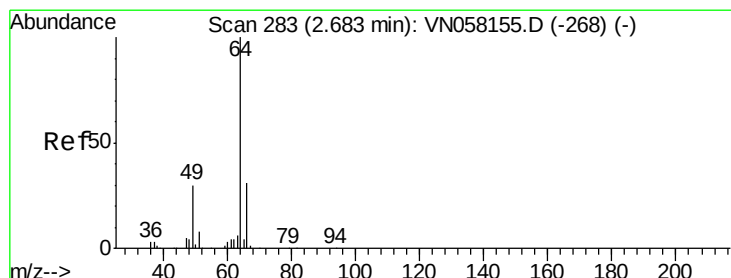
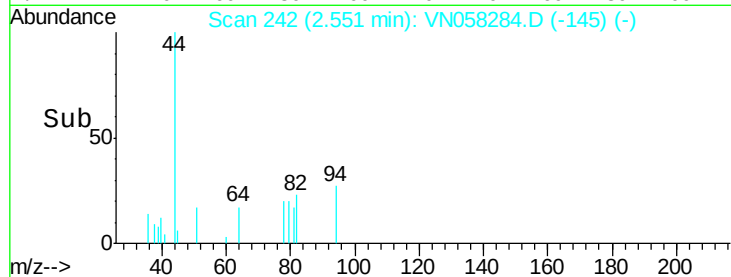
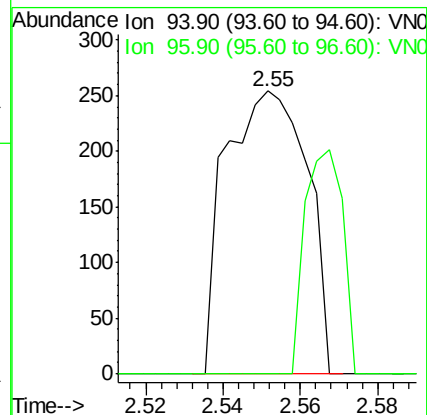
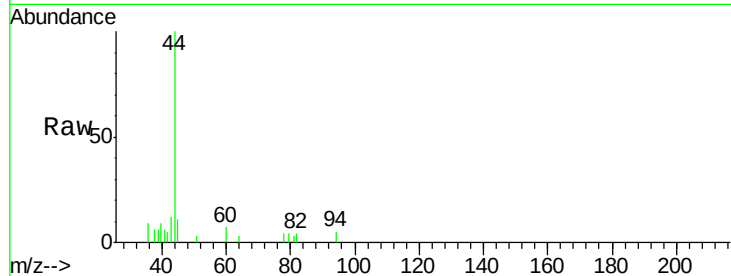
ClientSampleId :

Tot Ion: 94 Resp: 373

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058284.D

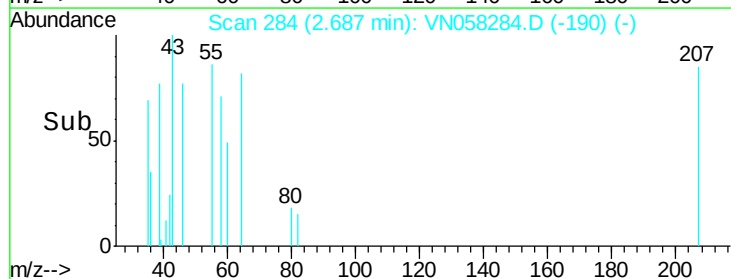
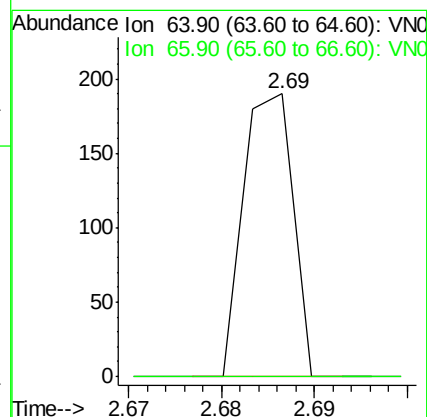
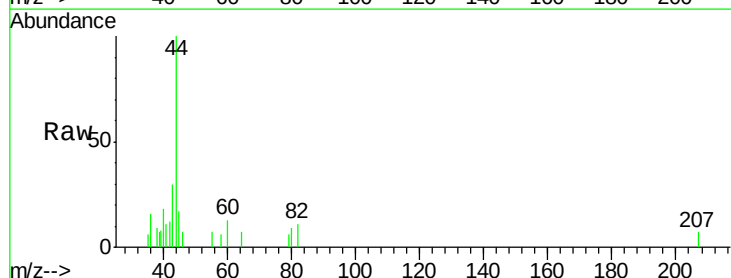
Acq: 23 Sep 2019 12:13

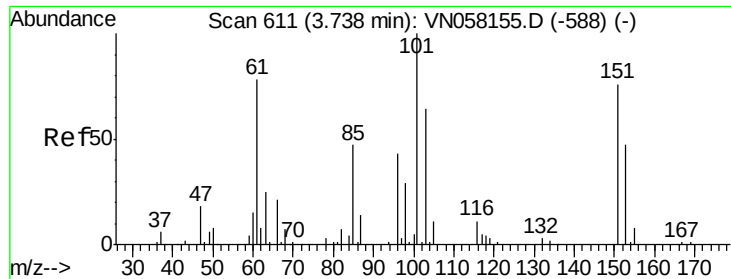
Tgt Ion: 64 Resp: 71

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.790 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

ClientSampled :

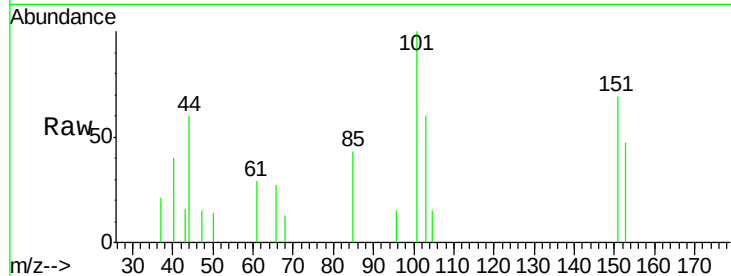
Tot Ion:101 Resp: 3130

Ion Ratio Lower Upper

101 100

85 17.4 37.3 55.9#

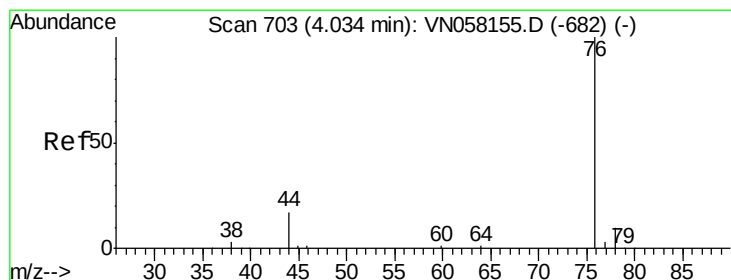
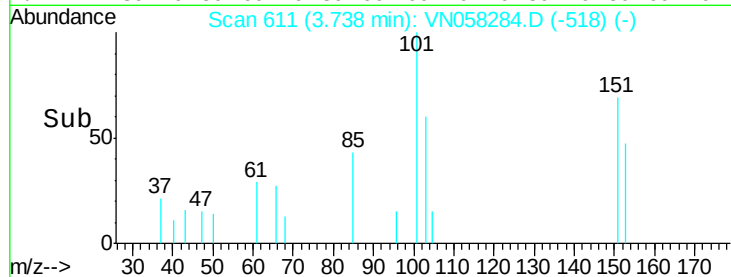
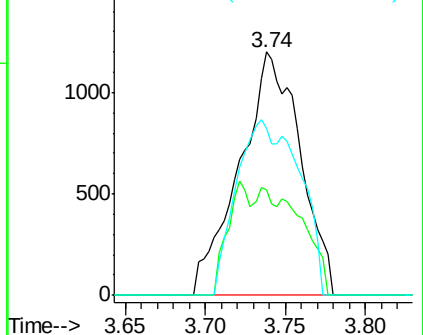
151 46.1 59.6 89.4#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#17

Carbon Disulfide

Concen: 0.349 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058284.D

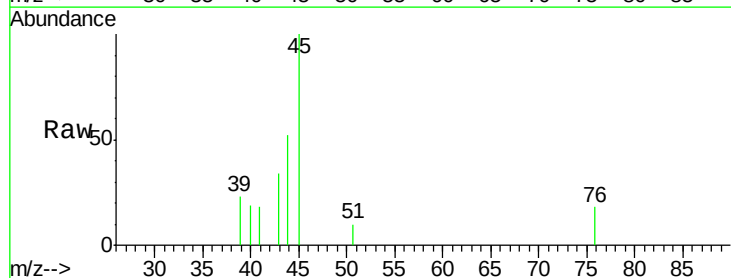
Acq: 23 Sep 2019 12:13

Tgt Ion: 76 Resp: 331

Ion Ratio Lower Upper

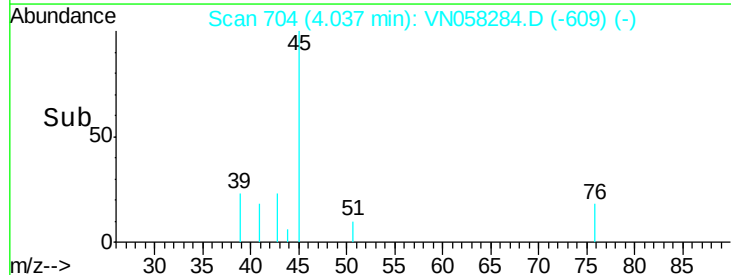
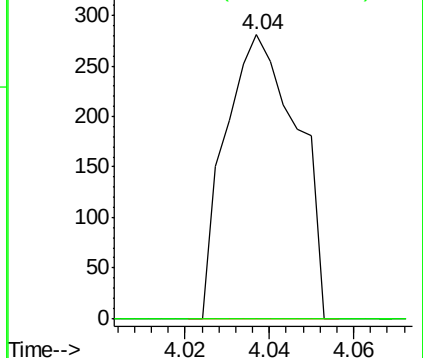
76 100

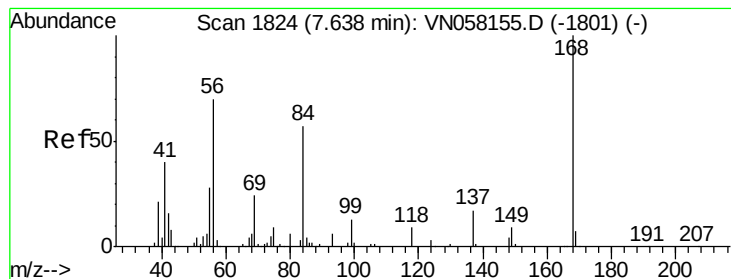
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO





#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

ClientSampled :

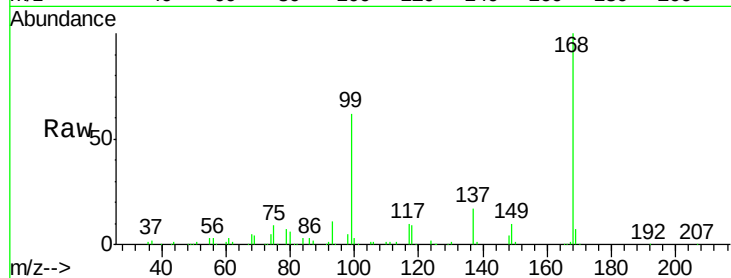
Tot Ion: 56 Resp: 12049

Ion Ratio Lower Upper

56 100

69 144.3 27.3 40.9#

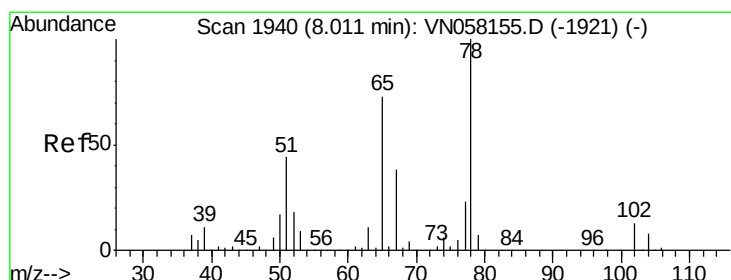
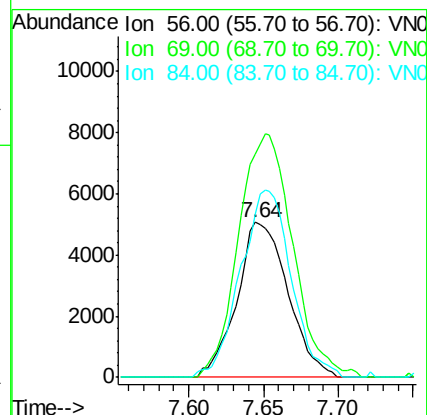
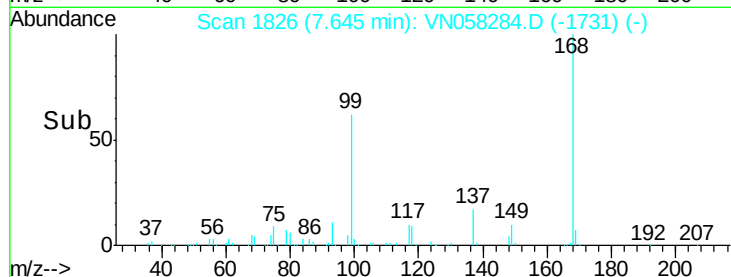
84 105.2 65.0 97.4#



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: 52.271 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058284.D

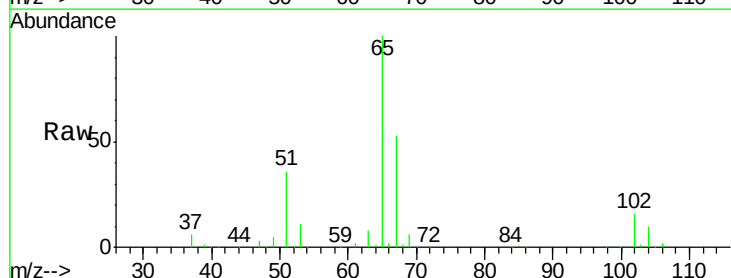
Acq: 23 Sep 2019 12:13

Tgt Ion: 65 Resp: 356995

Ion Ratio Lower Upper

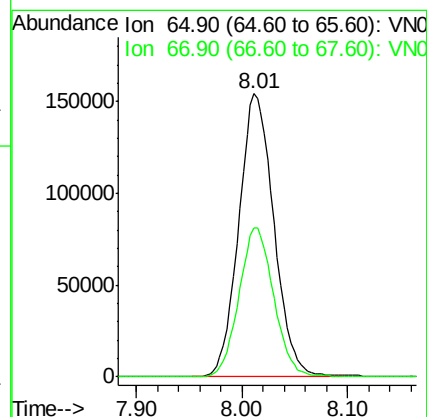
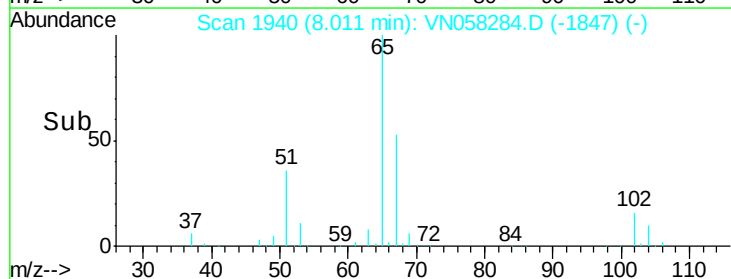
65 100

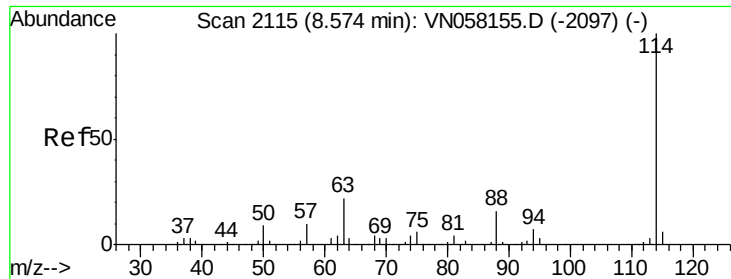
67 52.0 0.0 103.4



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

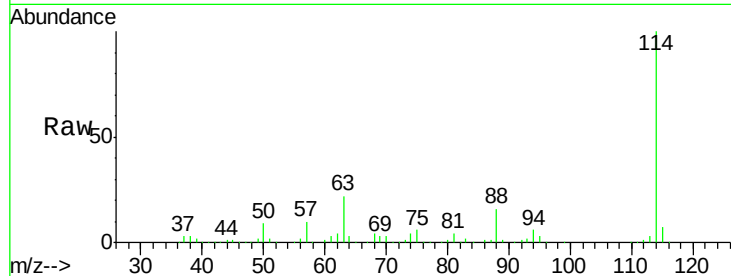
Delta R.T. -0.00 min

Lab File: VN058284.D

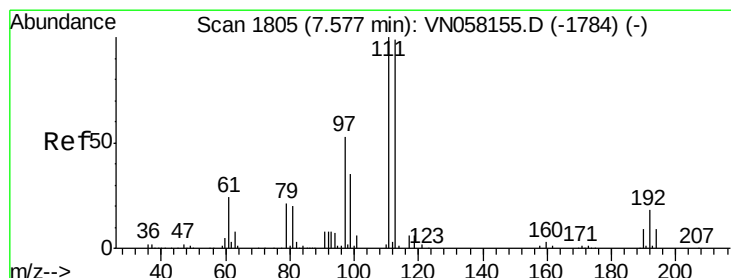
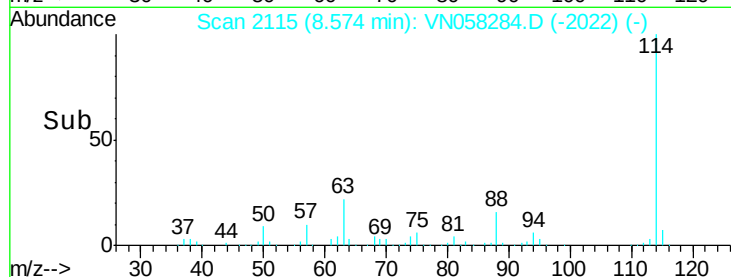
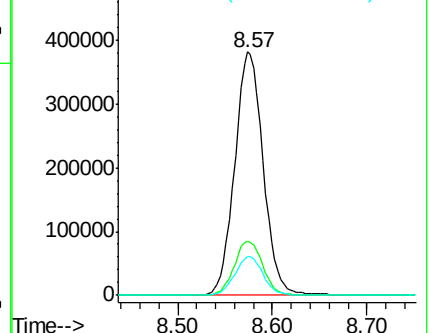
Acq: 23 Sep 2019 12:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114	Resp:	798015
Ion Ratio	Lower	Upper
114 100		
63 22.1	0.0	44.2
88 15.9	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: 51.724 ug/l

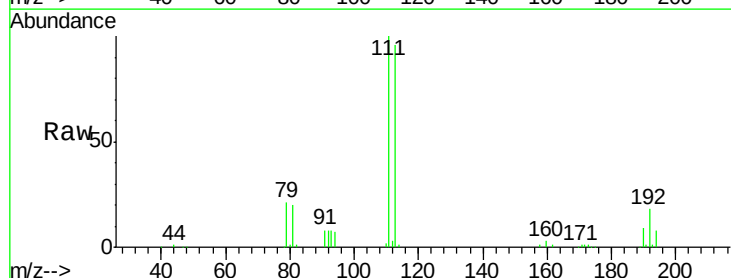
RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

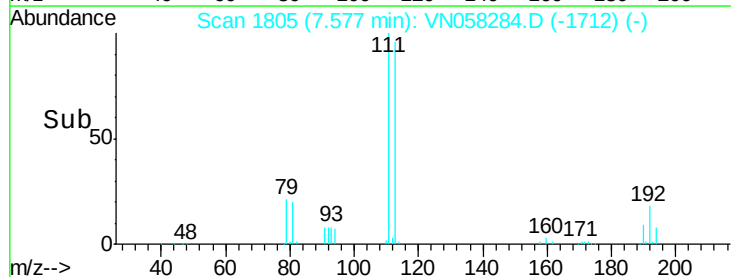
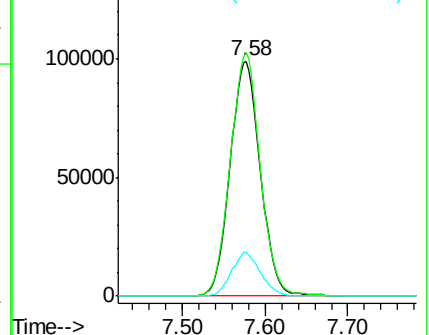
Lab File: VN058284.D

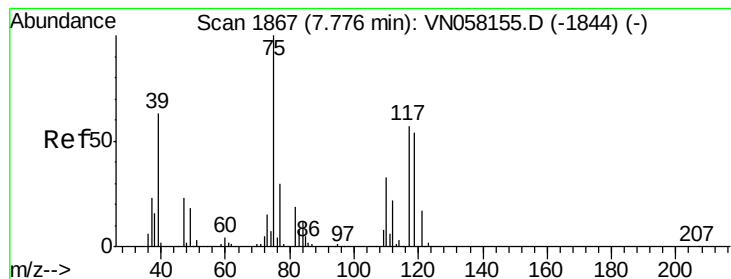
Acq: 23 Sep 2019 12:13

Tgt Ion:113	Resp:	250928
Ion Ratio	Lower	Upper
113 100		
111 103.1	81.8	122.6
192 17.8	14.5	21.7



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 7.385 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

ClientSampleId :

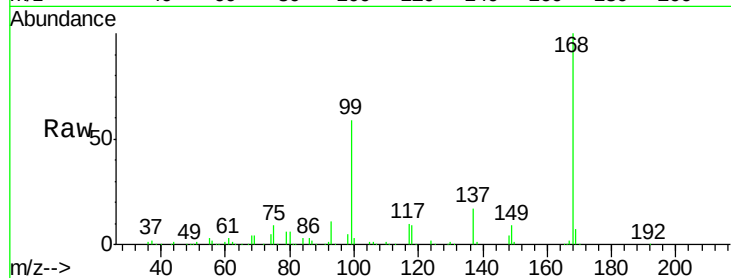
Tot Ion: 75 Resp: 42500

Ion Ratio Lower Upper

75 100

110 8.6 16.6 49.7#

77 0.0 24.3 36.5#

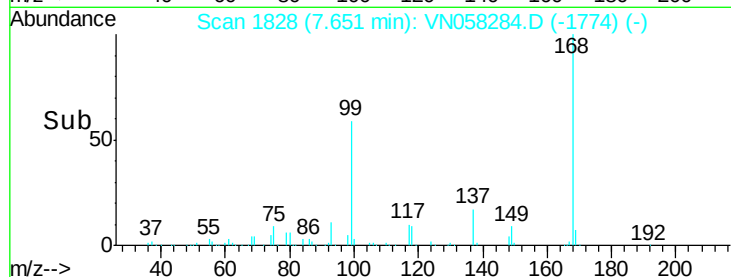


Abundance Ion 74.90 (74.60 to 75.60): VN058155.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN058155.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN058155.D (-1844) (-)

Time-->



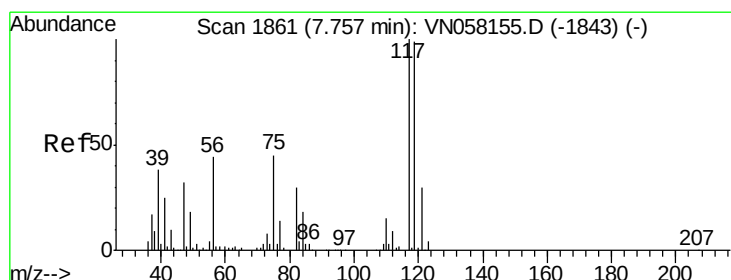
Abundance

Ion 74.90 (74.60 to 75.60): VN058155.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN058155.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN058155.D (-1844) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 8.543 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

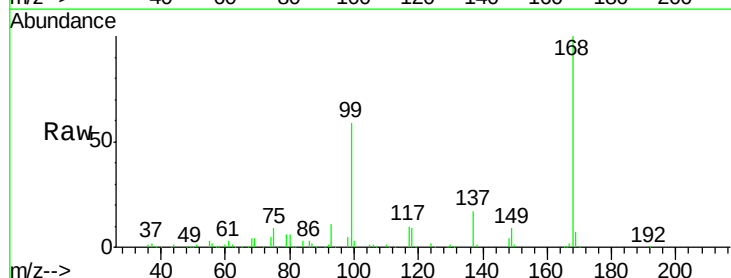
Tgt Ion: 117 Resp: 49420

Ion Ratio Lower Upper

117 100

119 4.4 78.6 117.8#

121 0.0 24.1 36.1#

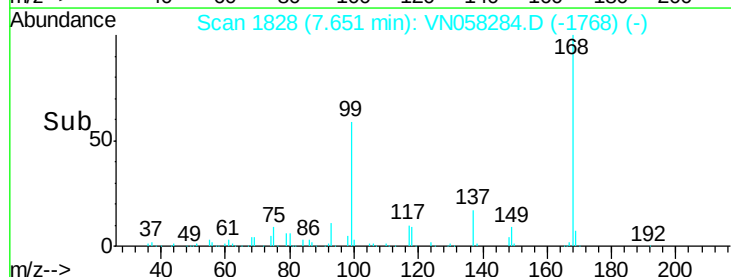


Abundance Ion 116.80 (116.50 to 117.50): VN058155.D (-1843) (-)

Ion 118.80 (118.50 to 119.50): VN058155.D (-1843) (-)

Ion 120.80 (120.50 to 121.50): VN058155.D (-1843) (-)

Time-->



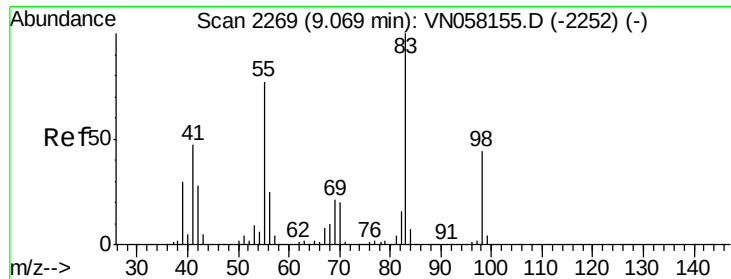
Abundance

Ion 116.80 (116.50 to 117.50): VN058155.D (-1843) (-)

Ion 118.80 (118.50 to 119.50): VN058155.D (-1843) (-)

Ion 120.80 (120.50 to 121.50): VN058155.D (-1843) (-)

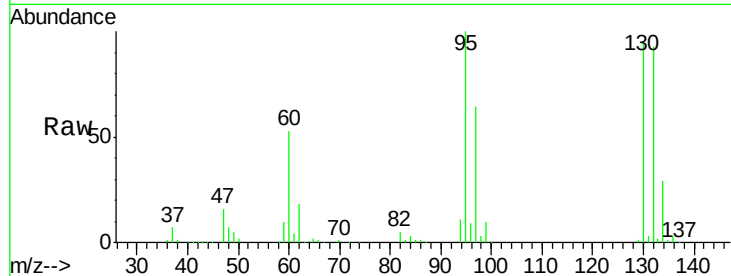
Time-->



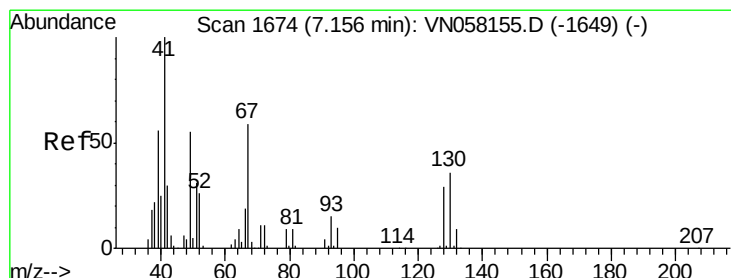
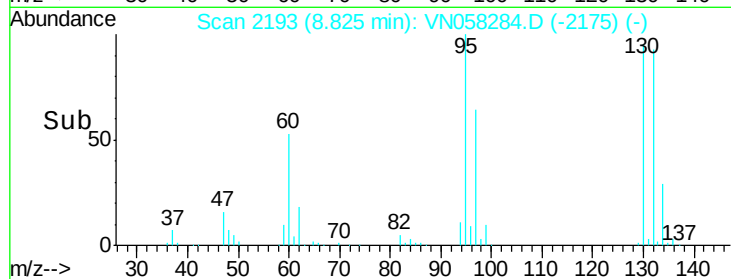
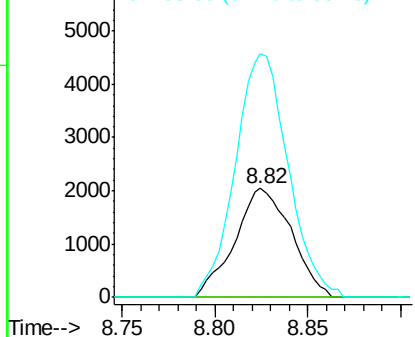
#39
Methylcyclohexane
Concen: 0.849 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VN058284.D
Acq: 23 Sep 2019 12:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 4335
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 223.8 35.4 53.2#



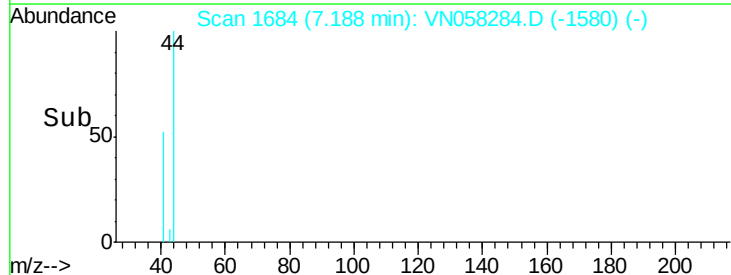
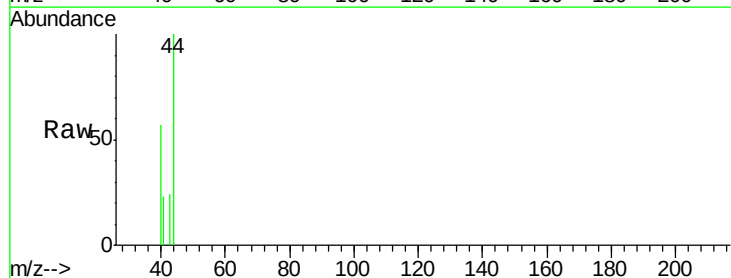
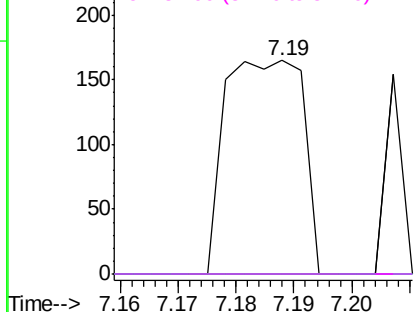
Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

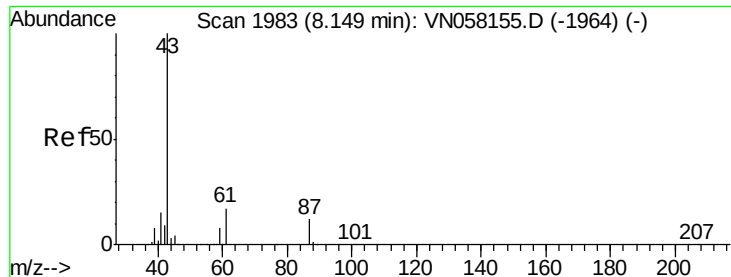


#41
Methacrylonitrile
Concen: 0.961 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.03 min
Lab File: VN058284.D
Acq: 23 Sep 2019 12:13

Tgt Ion: 41 Resp: 153
Ion Ratio Lower Upper
41 100
39 0.0 0.0 0.0
67 0.0 0.0 0.0
52 0.0 0.0 0.0

Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0





#43

Isopropyl Acetate

Concen: 0.910 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.09 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

ClientSampled :

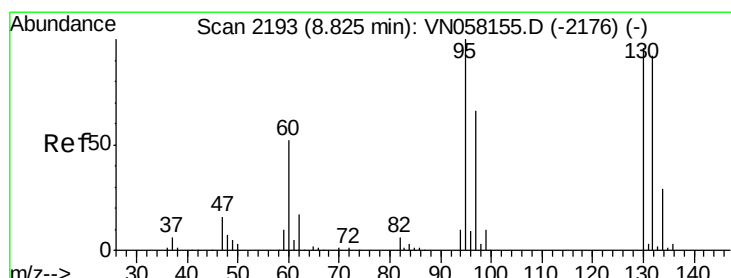
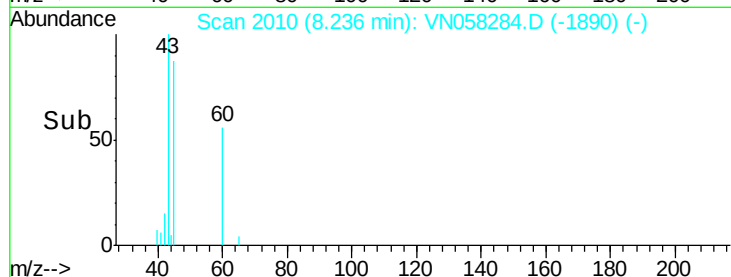
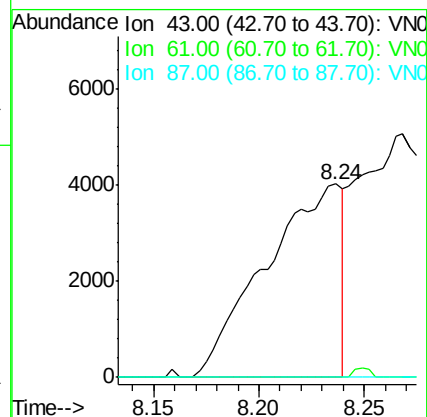
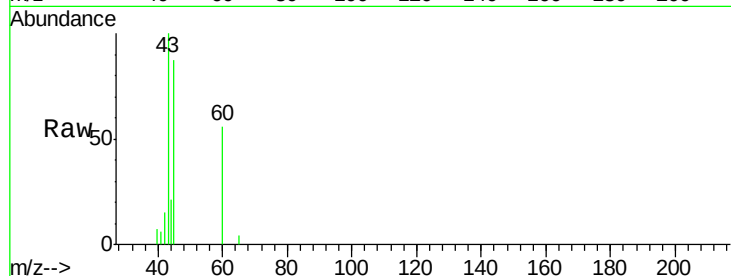
Tot Ion: 43 Resp: 10147

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#44

Trichloroethene

Concen: 78.806 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058284.D

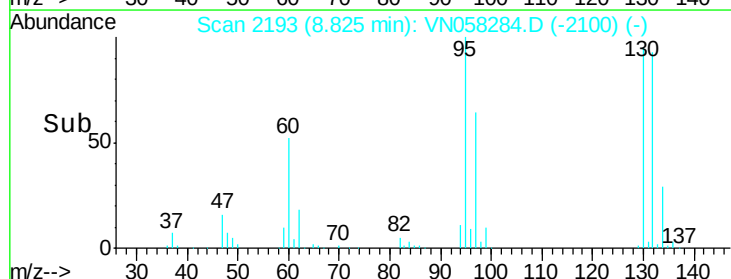
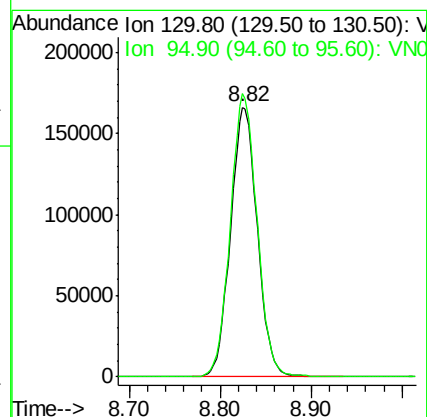
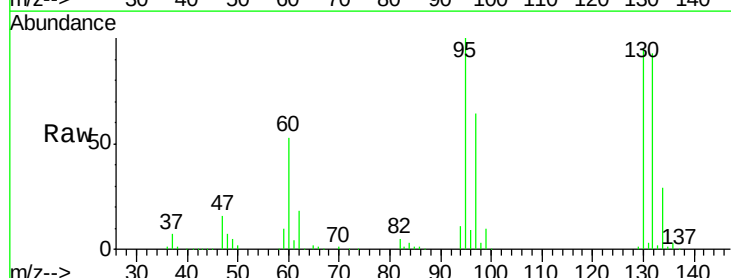
Acq: 23 Sep 2019 12:13

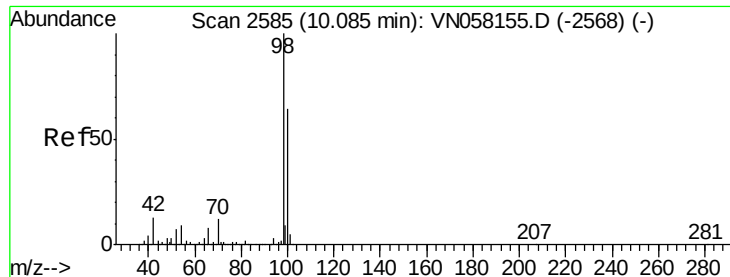
Tgt Ion:130 Resp: 338977

Ion Ratio Lower Upper

130 100

95 104.9 0.0 207.8





#50

Toluene-d8

Concen: 53.663 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

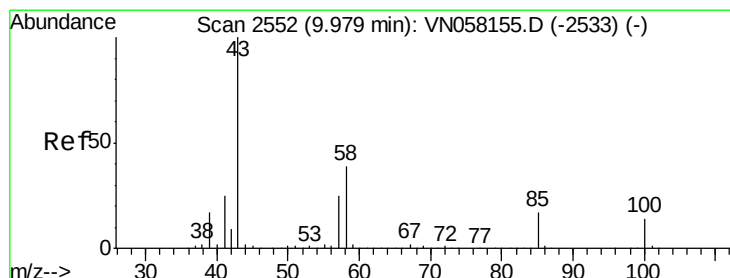
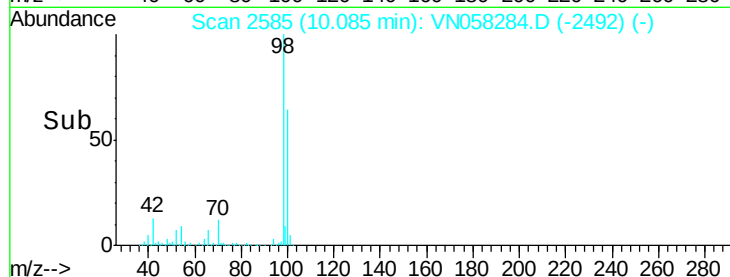
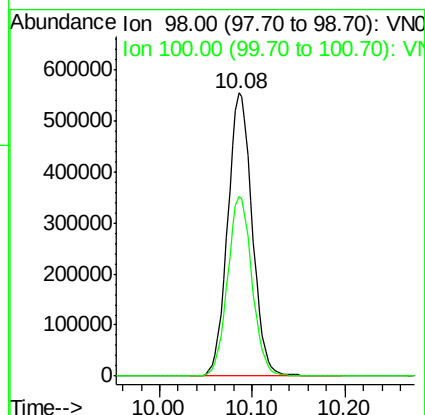
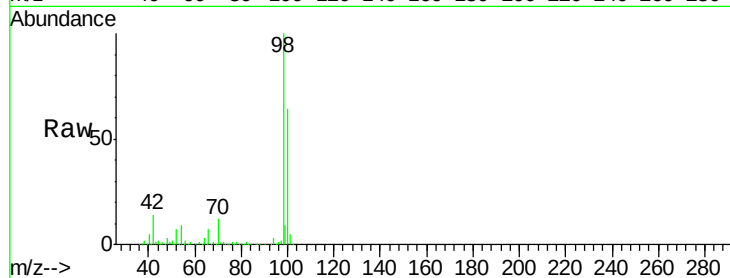
ClientSampleId :

Tot Ion: 98 Resp: 1014319

Ion Ratio Lower Upper

98 100

100 63.2 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.824 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.11 min

Lab File: VN058284.D

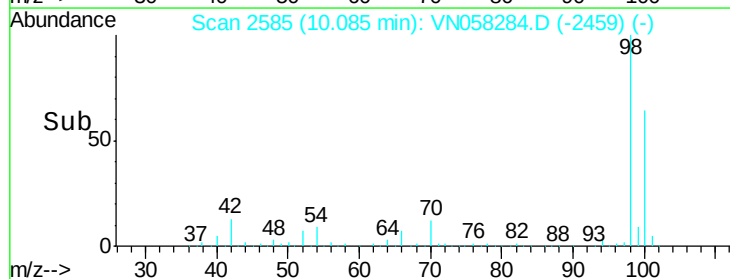
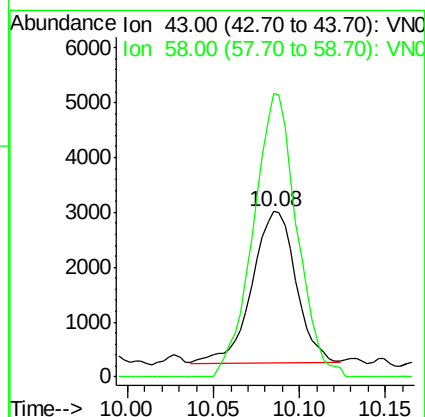
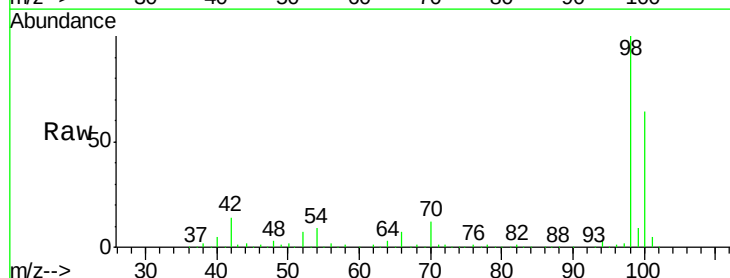
Acq: 23 Sep 2019 12:13

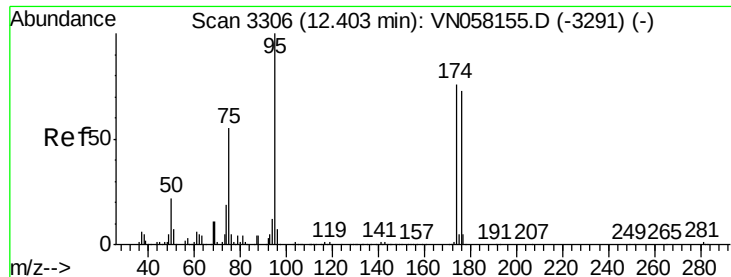
Tgt Ion: 43 Resp: 4882

Ion Ratio Lower Upper

43 100

58 185.6 30.2 45.4#





#62

4-Bromofluorobenzene

Concen: 45.736 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

ClientSampled :

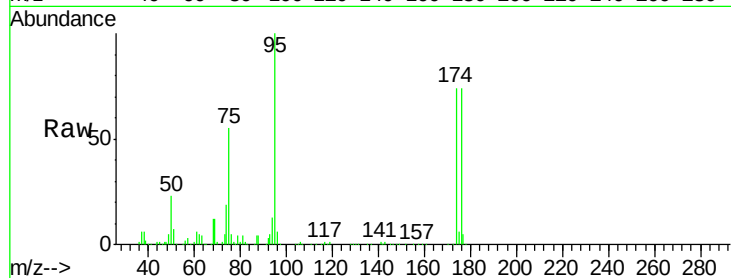
Tot Ion: 95 Resp: 321122

Ion Ratio Lower Upper

95 100

174 75.6 0.0 152.2

176 72.9 0.0 148.0

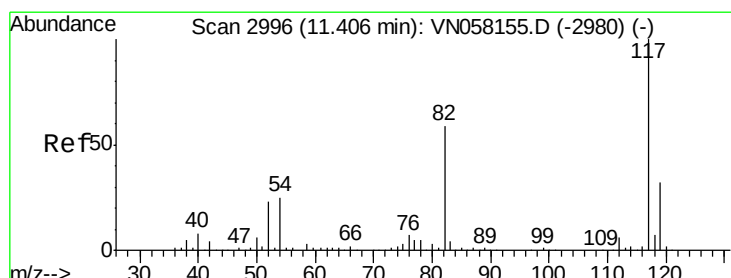
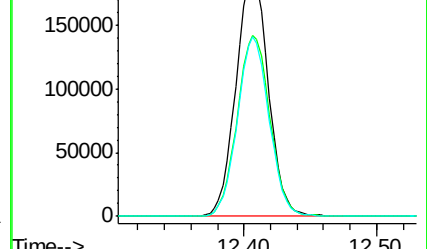
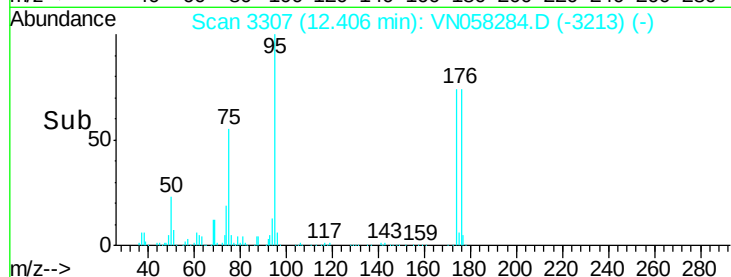


Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

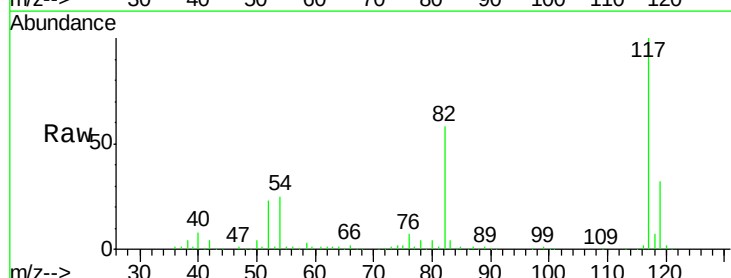
Tgt Ion: 117 Resp: 682368

Ion Ratio Lower Upper

117 100

82 58.2 46.9 70.3

119 32.2 25.3 37.9

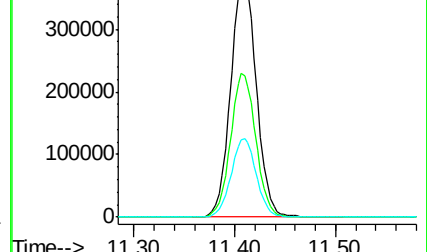
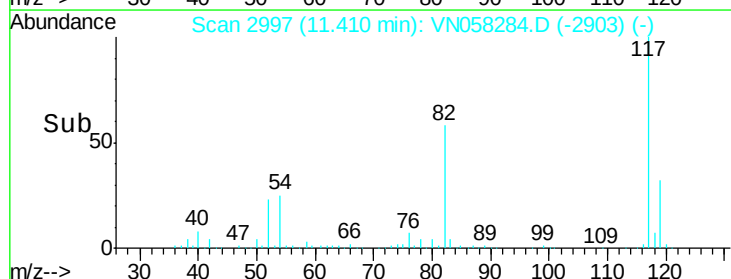


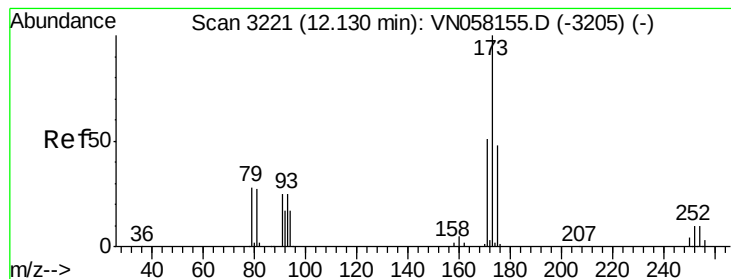
Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

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

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

Time-->





#71

Bromoform

Concen: 3.776 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

ClientSampled :

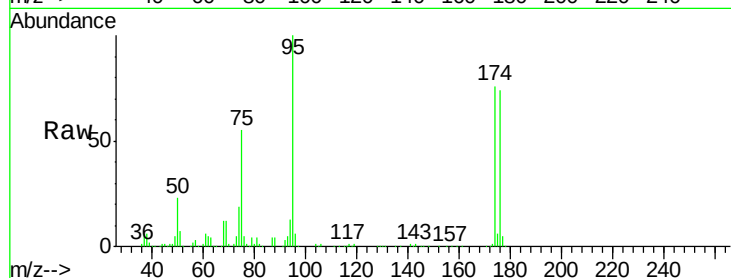
Tot Ion:173 Resp: 629

Ion Ratio Lower Upper

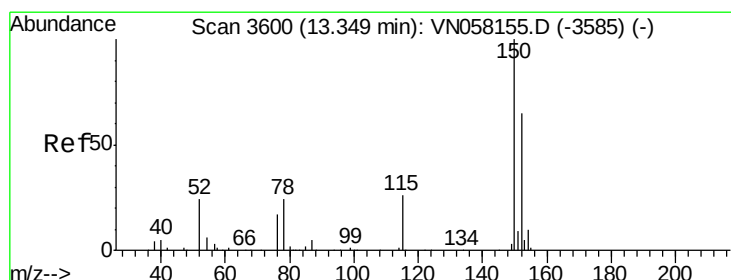
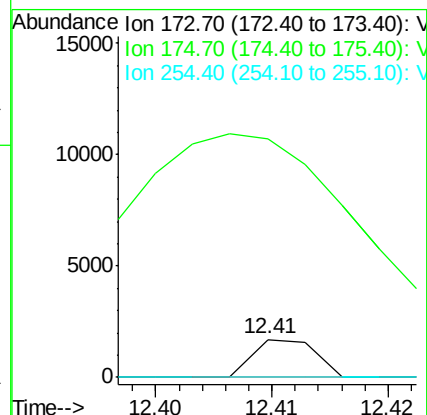
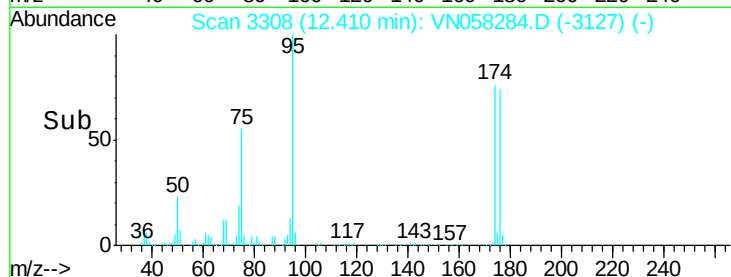
173 100

175 2444.5 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: VN058284.D

Acq: 23 Sep 2019 12:13

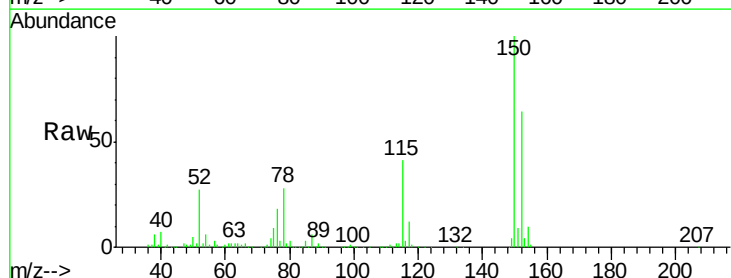
Tgt Ion:152 Resp: 277621

Ion Ratio Lower Upper

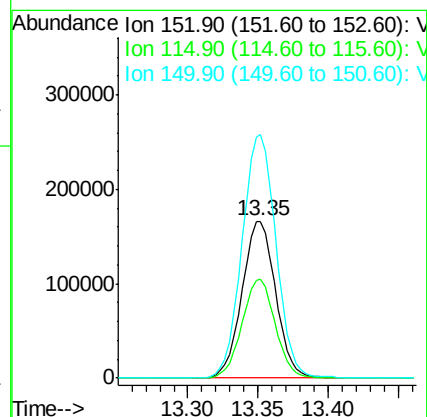
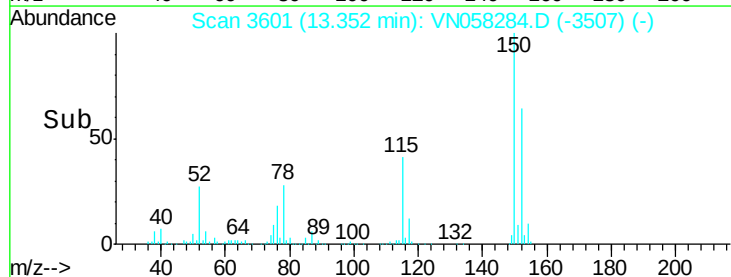
152 100

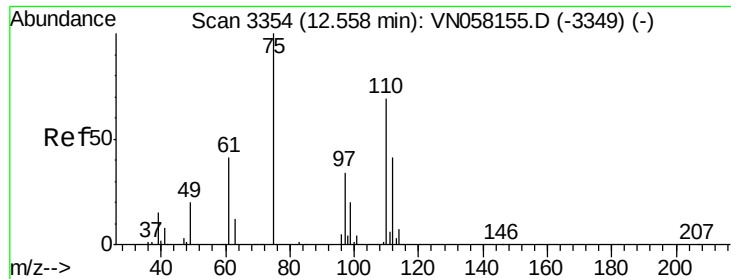
115 62.2 30.1 90.3

150 157.2 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: 35.445 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

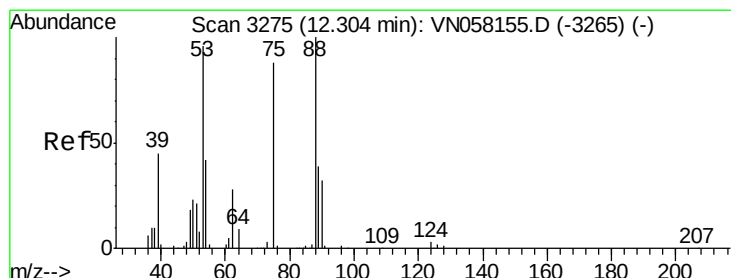
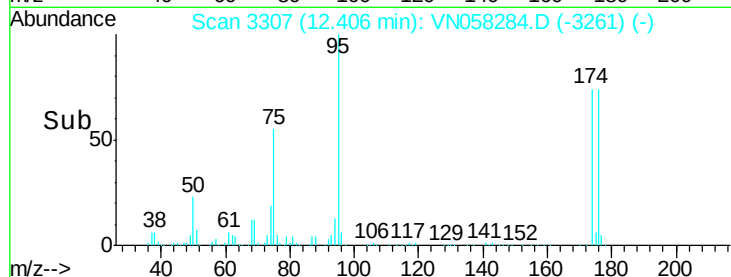
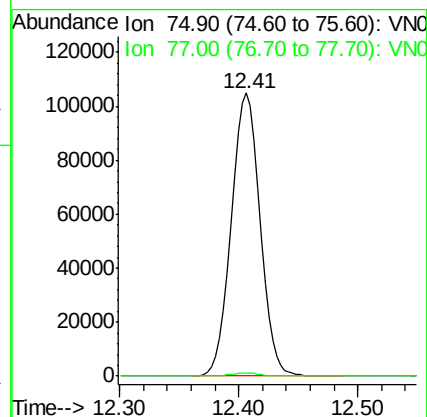
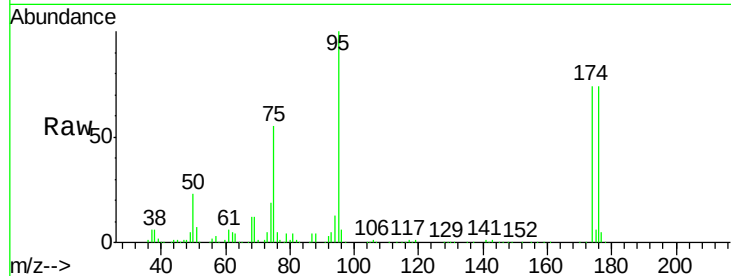
ClientSampled :

Tot Ion: 75 Resp: 176112

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 99.080 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

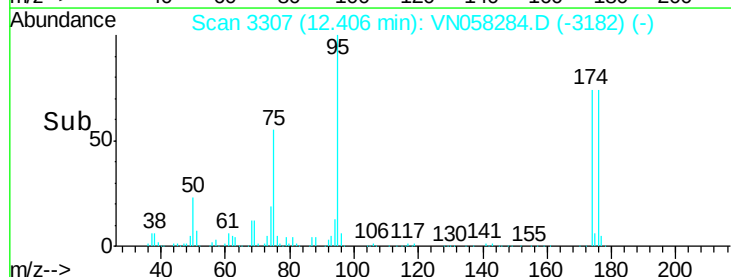
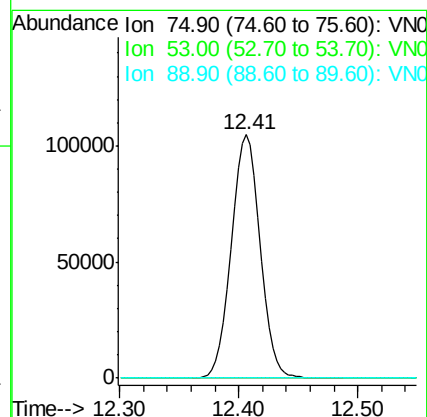
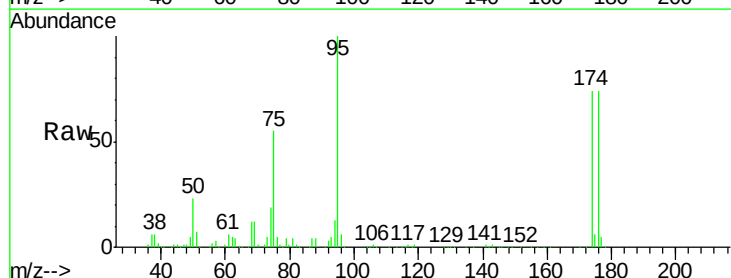
Tgt Ion: 75 Resp: 176112

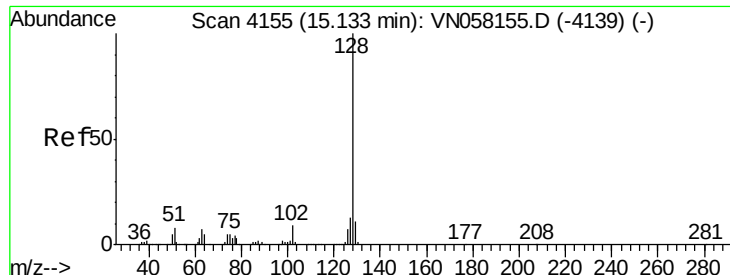
Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#





#95

Naphthalene

Concen: 1.875 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058284.D

Acq: 23 Sep 2019 12:13

Instrument :

MSVOA_N

ClientSampleId :

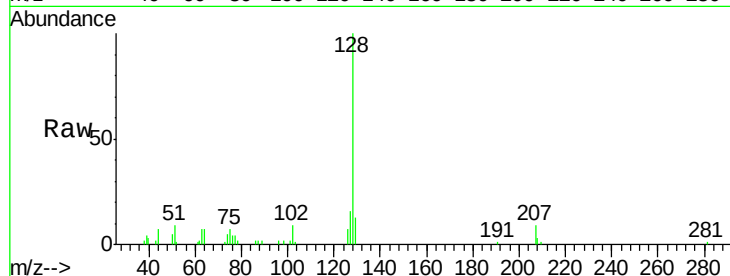
Tot Ion:128 Resp: 24858

Ion Ratio Lower Upper

128 100

127 13.6 10.2 15.2

129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

