

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058328.D
 Acq On : 24 Sep 2019 5:34
 Operator : JC/SP
 Sample : K4975-14DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 07:12:05 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	473494	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	791299	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	673903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	274931	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	360183	54.62	ug/l	0.00
Spiked Amount			Recovery	=	109.24%	
35) Dibromofluoromethane	7.58	113	245717	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
50) Toluene-d8	10.08	98	1005671	53.66	ug/l	0.00
Spiked Amount			Recovery	=	107.32%	
62) 4-Bromofluorobenzene	12.41	95	324333	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	

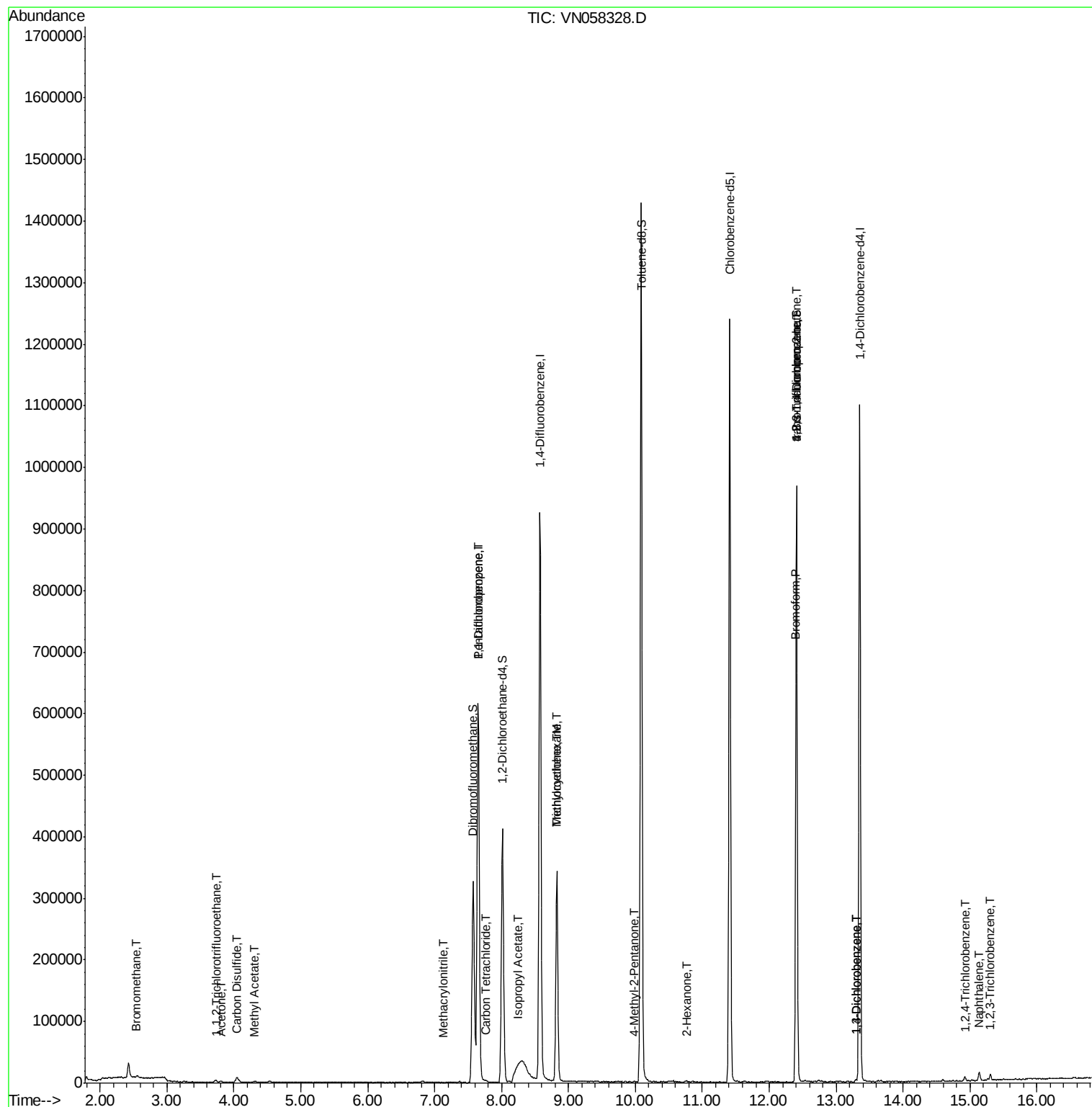
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	895	Below Cal	#	88
4) Vinyl Chloride	2.31	62	29	Below Cal	#	43
5) Bromomethane	2.55	94	1195	1.401	ug/l #	76
6) Chloroethane	2.69	64	194	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	805	0.210	ug/l	94
12) 1,1-Dichloroethene	3.72	96	994	Below Cal	#	73
16) Acetone	3.82	43	3997	1.786	ug/l	98
17) Carbon Disulfide	4.03	76	1082	0.534	ug/l #	74
18) Methyl Acetate	4.31	43	1435	0.244	ug/l #	58
31) Cyclohexane	7.65	56	12264	Below Cal	#	13
36) 1,1-Dichloropropene	7.65	75	41524	7.277	ug/l #	51
38) Carbon Tetrachloride	7.76	117	2038	0.355	ug/l #	62
39) Methylcyclohexane	8.83	83	1667	0.373	ug/l #	1
41) Methacrylonitrile	7.13	41	62	0.931	ug/l #	100
43) Isopropyl Acetate	8.24	43	31822	2.877	ug/l #	58
44) Trichloroethene	8.82	130	120903	28.346	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1425	0.243	ug/l #	37
59) 2-Hexanone	10.76	43	1550	0.355	ug/l #	53
71) Bromoform	12.39	173	84	3.620	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	176928	35.958	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	176928	100.429	ug/l #	5
87) 1,3-Dichlorobenzene	13.29	146	1675	0.212	ug/l	77
88) 1,4-Dichlorobenzene	13.29	146	1675	0.208	ug/l	78
93) 1,2,4-Trichlorobenzene	14.92	180	2408	0.475	ug/l	93
95) Naphthalene	15.14	128	11476	0.874	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	2757	0.576	ug/l	68

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

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Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 24 07:12:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
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: VN058328.D

Acq: 24 Sep 2019 5:34

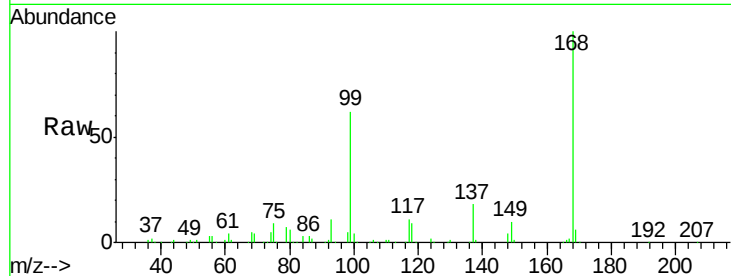
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 473494

Ion Ratio Lower Upper

168 100

99 62.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

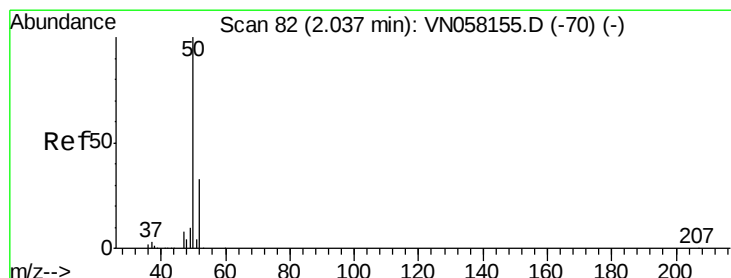
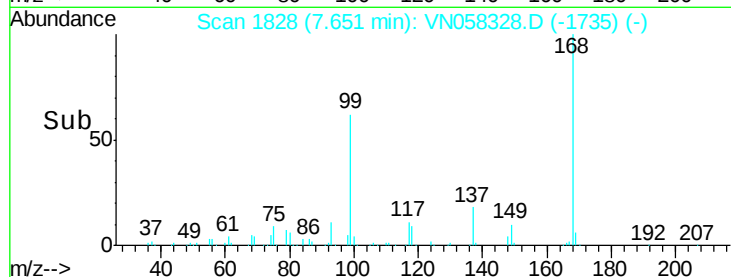
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058328.D

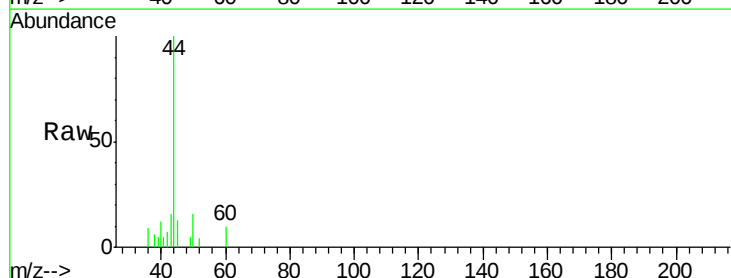
Acq: 24 Sep 2019 5:34

Tgt Ion: 50 Resp: 895

Ion Ratio Lower Upper

50 100

52 26.2 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

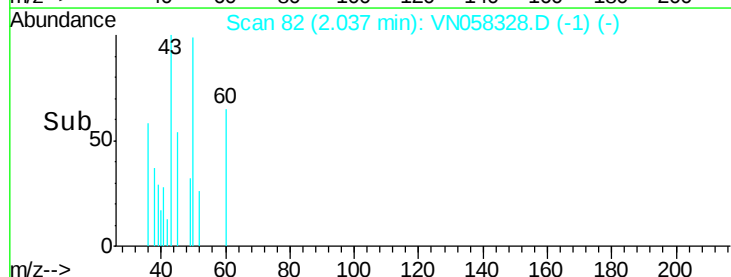
600

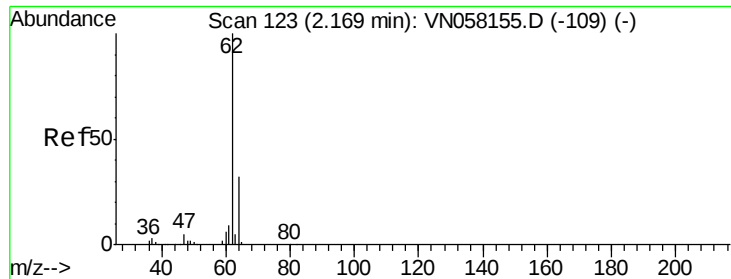
400

200

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.31 min Scan# 167

Delta R.T. 0.14 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

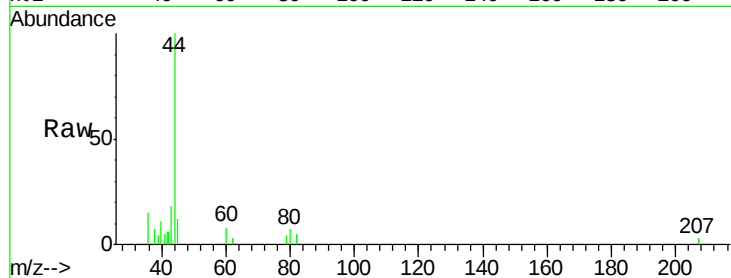
ClientSampled :

Tot Ion: 62 Resp: 29

Ion Ratio Lower Upper

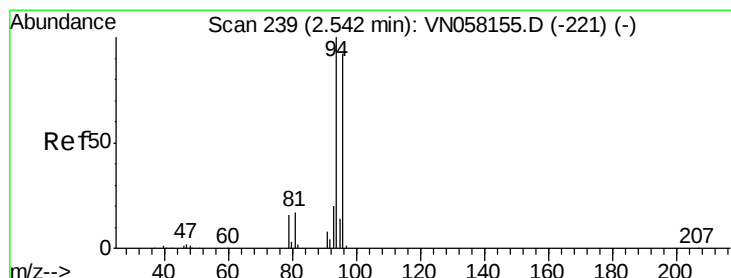
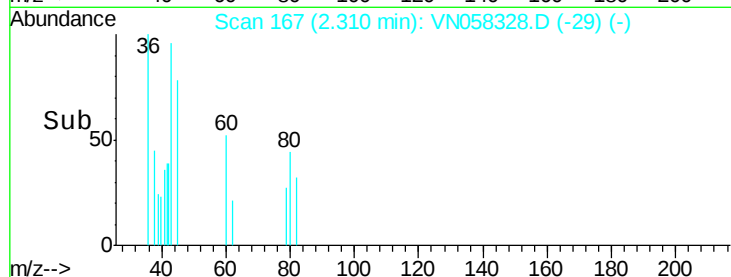
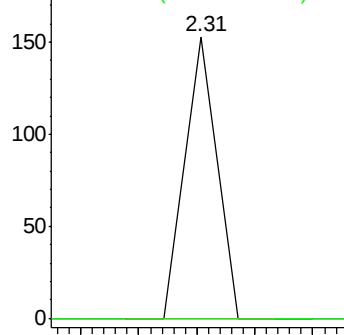
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#5

Bromomethane

Concen: 1.401 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058328.D

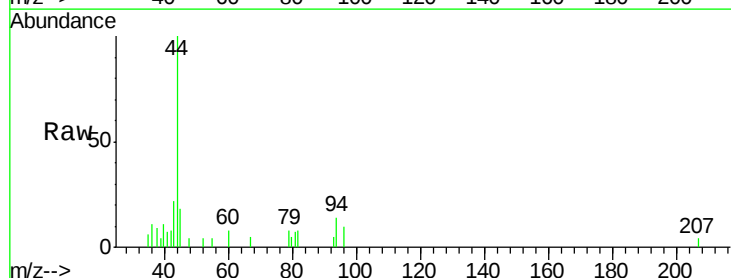
Acq: 24 Sep 2019 5:34

Tgt Ion: 94 Resp: 1195

Ion Ratio Lower Upper

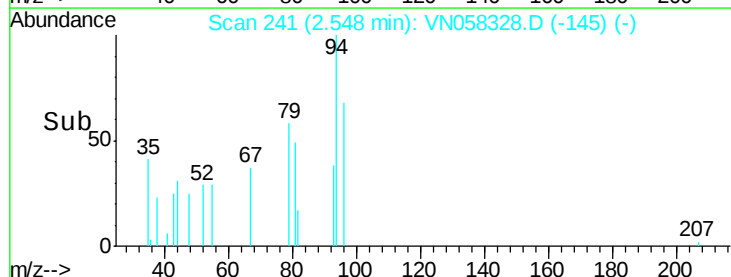
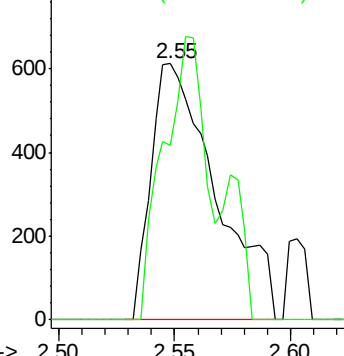
94 100

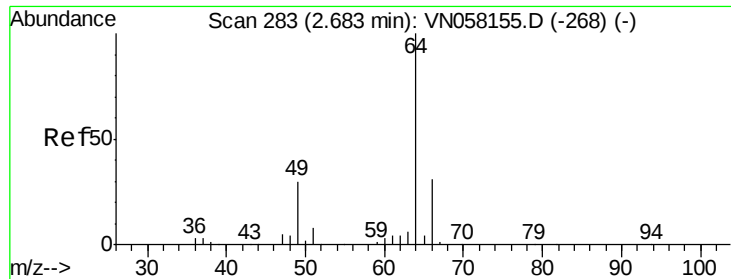
96 68.3 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

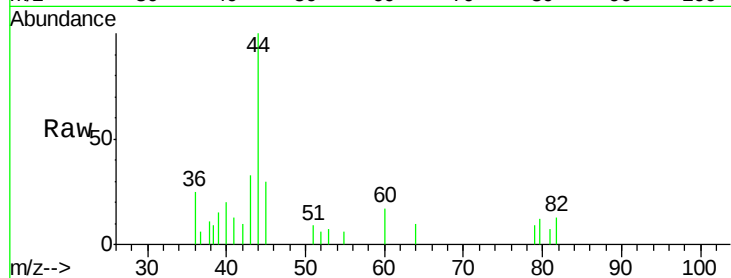
ClientSampled :

Tot Ion: 64 Resp: 194

Ion Ratio Lower Upper

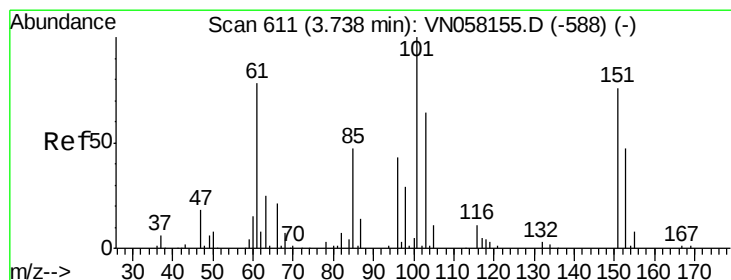
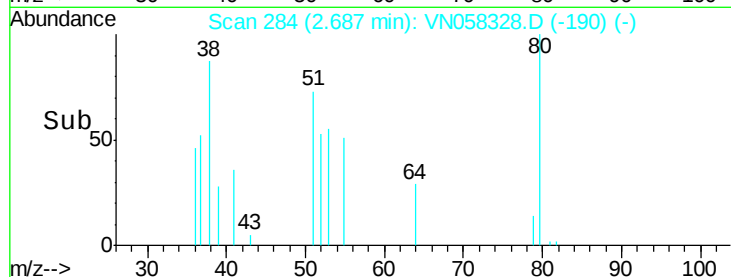
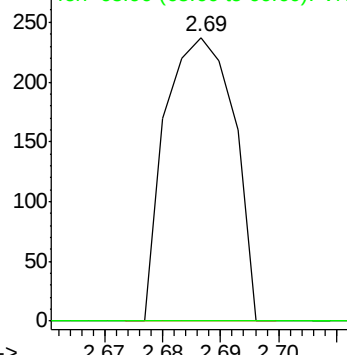
64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.210 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.01 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

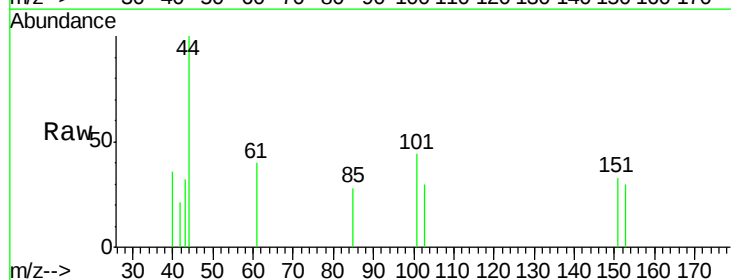
Tgt Ion: 101 Resp: 805

Ion Ratio Lower Upper

101 100

85 42.1 37.3 55.9

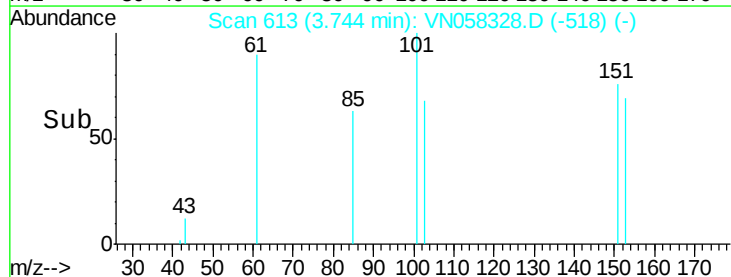
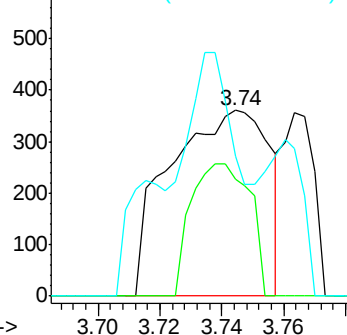
151 70.2 59.6 89.4

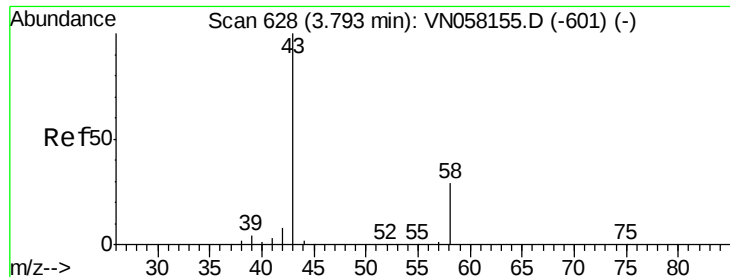


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V





#16

Acetone

Concen: 1.786 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.02 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

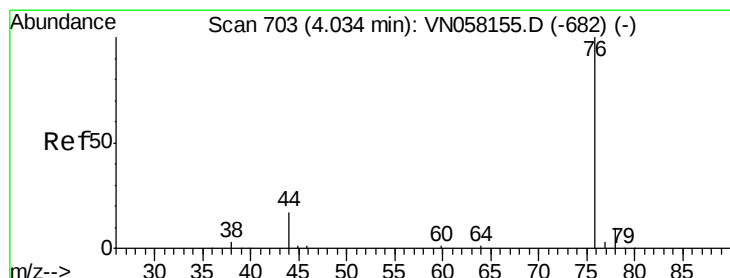
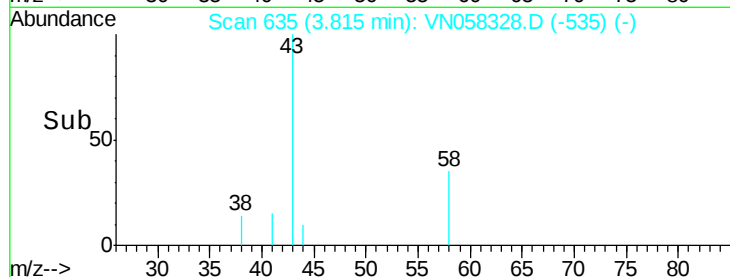
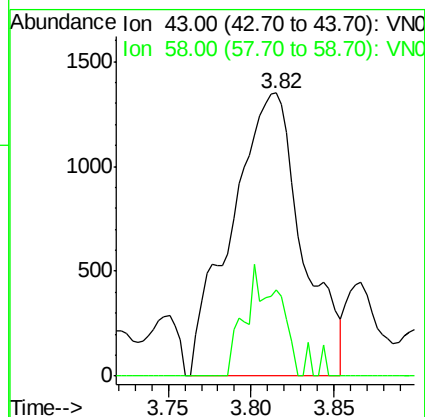
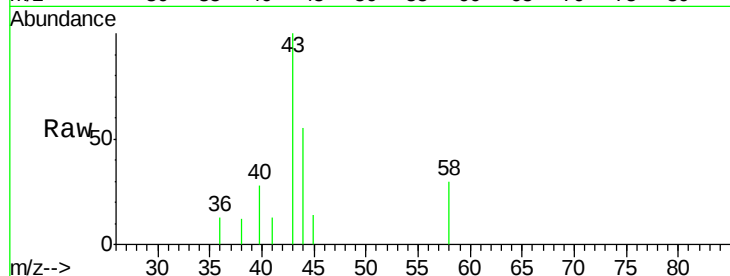
ClientSampled :

Tot Ion: 43 Resp: 3997

Ion Ratio Lower Upper

43 100

58 30.3 23.4 35.2



#17

Carbon Disulfide

Concen: 0.534 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058328.D

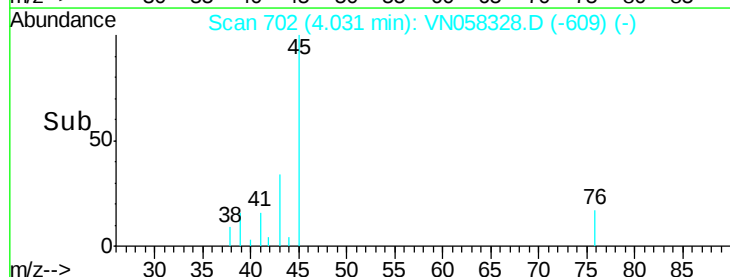
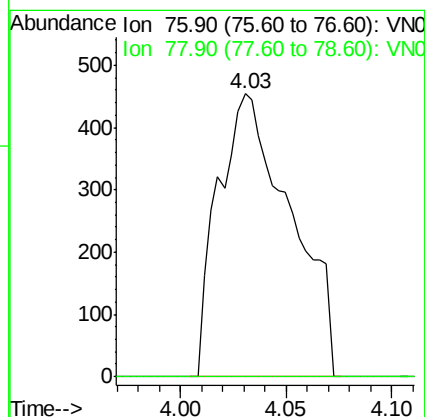
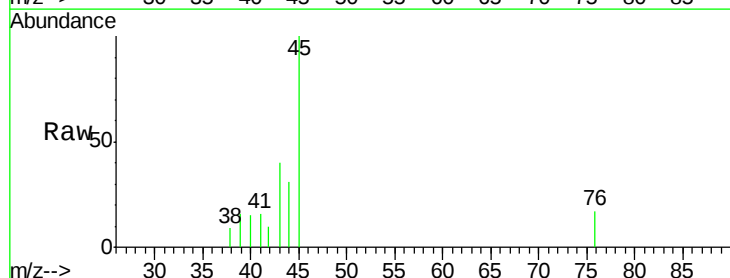
Acq: 24 Sep 2019 5:34

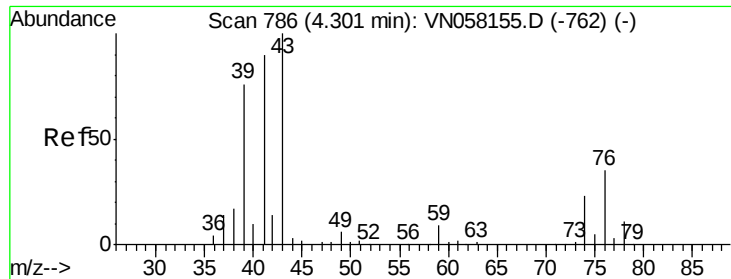
Tgt Ion: 76 Resp: 1082

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#

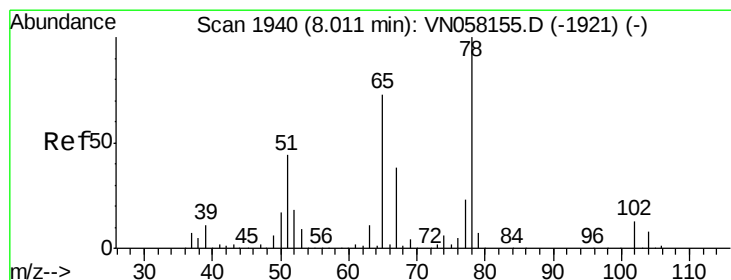
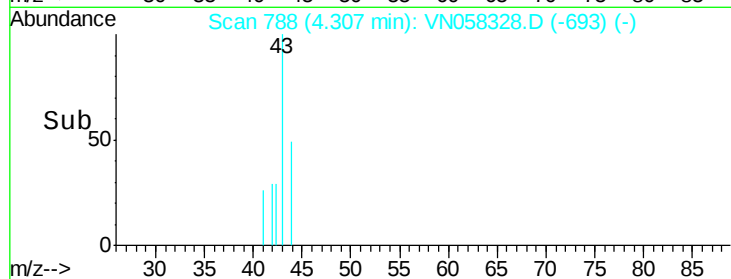
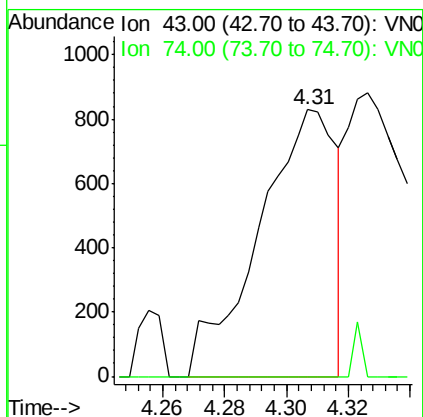
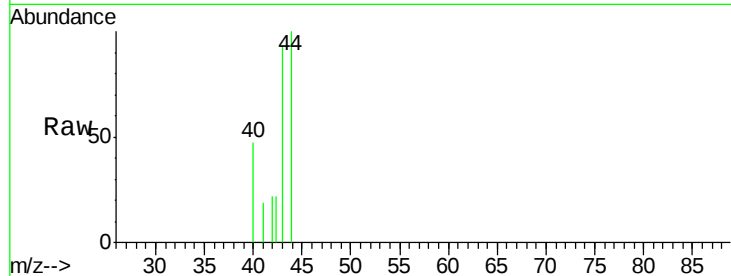




#18
Methvl Acetate
Concen: 0.244 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058328.D
Acq: 24 Sep 2019 5:34

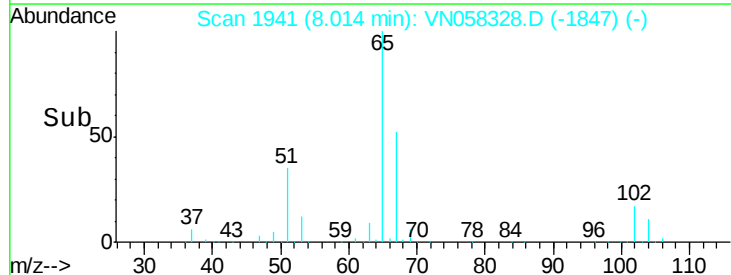
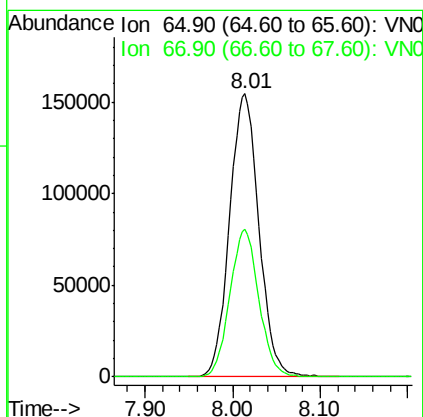
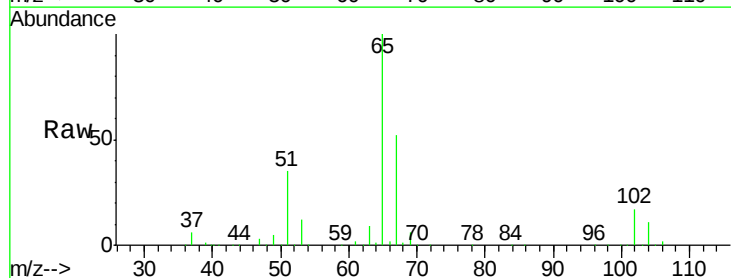
Instrument :
MSVOA_N
ClientSampled :

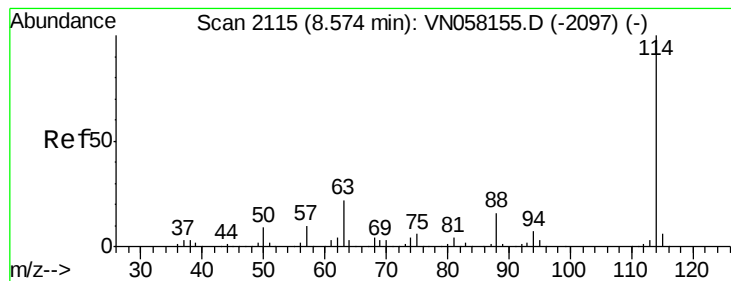
Tot Ion: 43 Resp: 1435
Ion Ratio Lower Upper
43 100
74 2.3 18.0 27.0#



#33
1,2-Dichloroethane-d4
Concen: 54.616 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058328.D
Acq: 24 Sep 2019 5:34

Tgt Ion: 65 Resp: 360183
Ion Ratio Lower Upper
65 100
67 51.5 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: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :
MSVOA_N
ClientSampled :

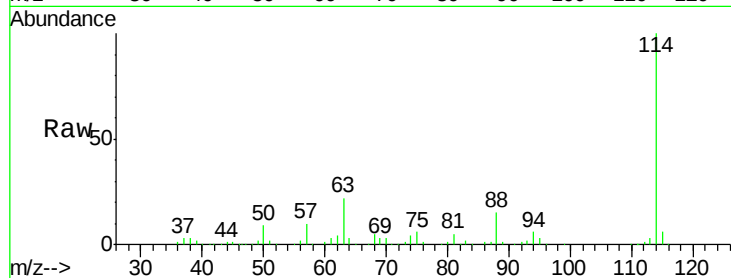
Tot Ion:114 Resp: 791299

Ion Ratio Lower Upper

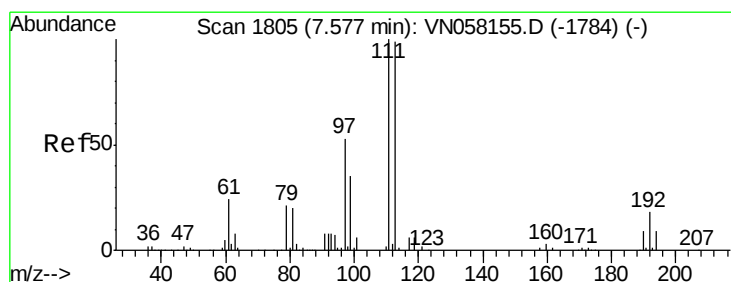
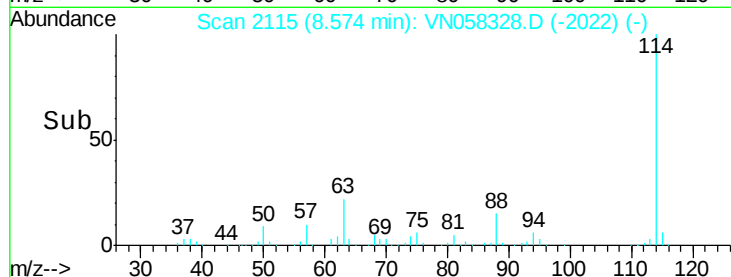
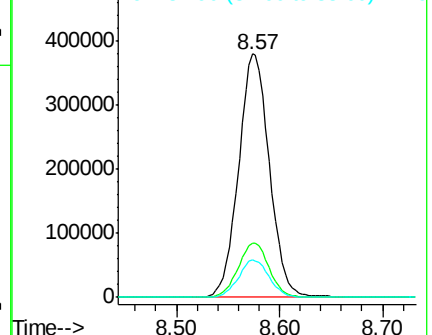
114 100

63 22.1 0.0 44.2

88 15.5 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: 51.080 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

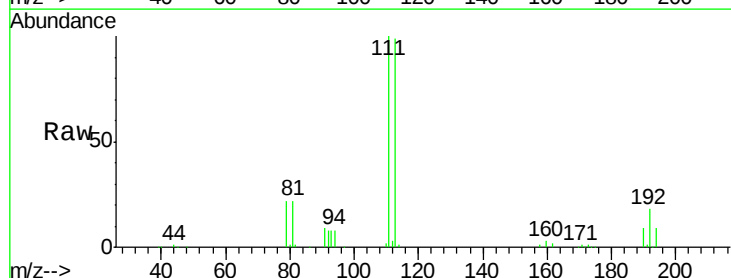
Tgt Ion:113 Resp: 245717

Ion Ratio Lower Upper

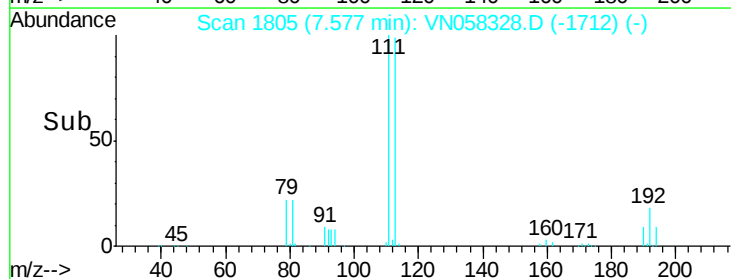
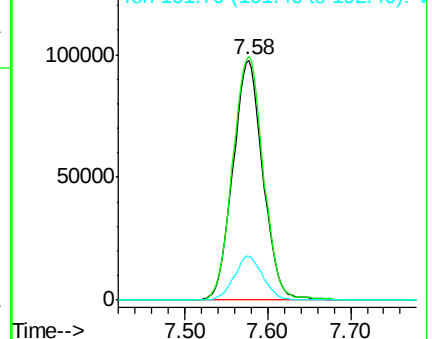
113 100

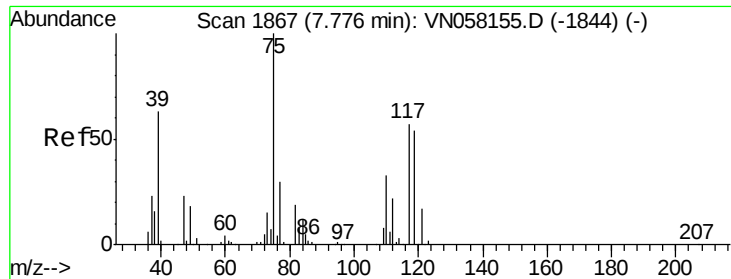
111 103.6 81.8 122.6

192 17.7 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: 7.277 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :
MSVOA_N
ClientSampled :

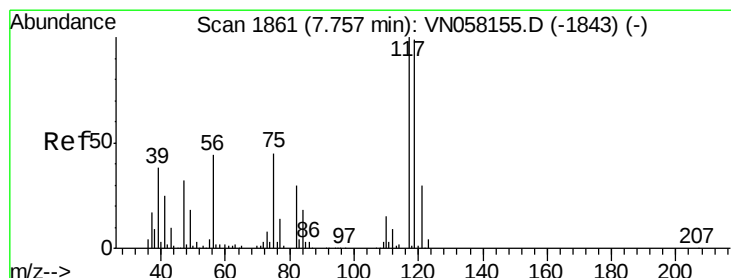
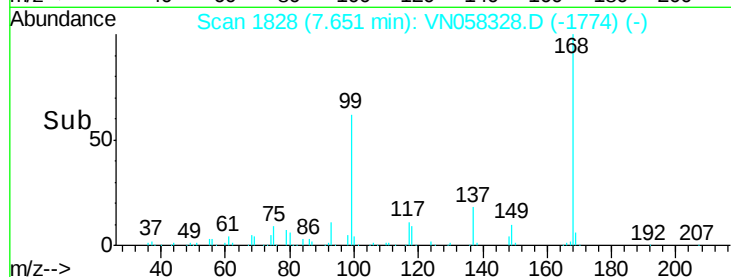
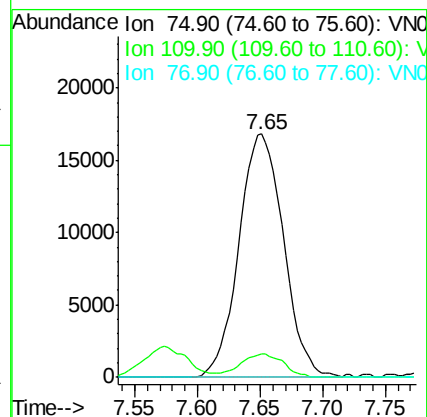
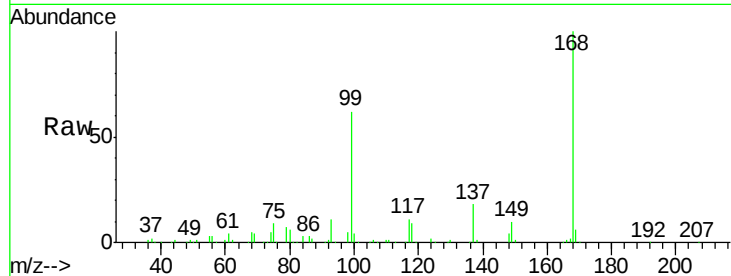
Tot Ion: 75 Resp: 41524

Ion Ratio Lower Upper

75 100

110 9.1 16.6 49.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 0.355 ug/l

RT: 7.76 min Scan# 1863

Delta R.T. 0.01 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

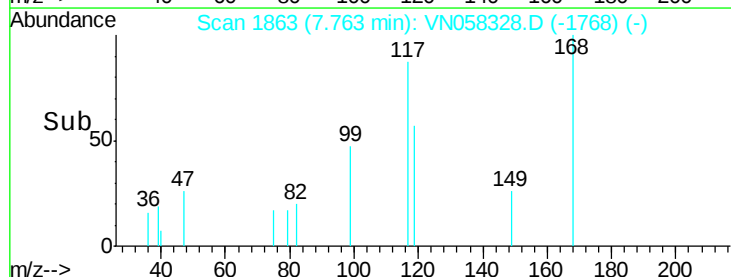
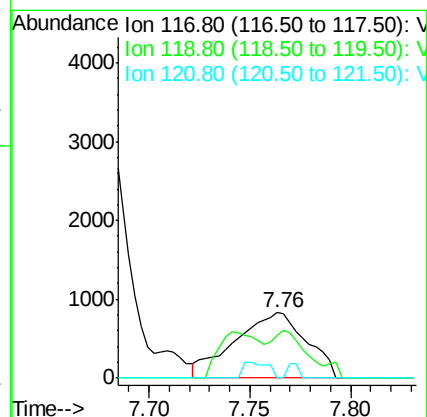
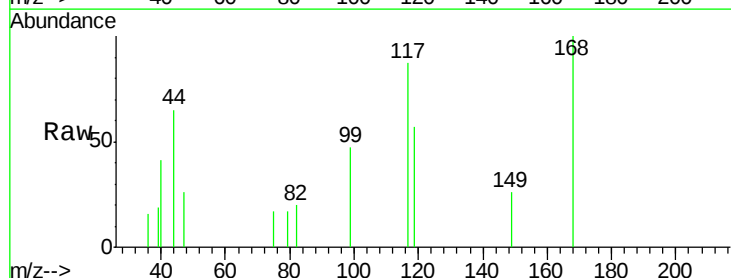
Tgt Ion: 117 Resp: 2038

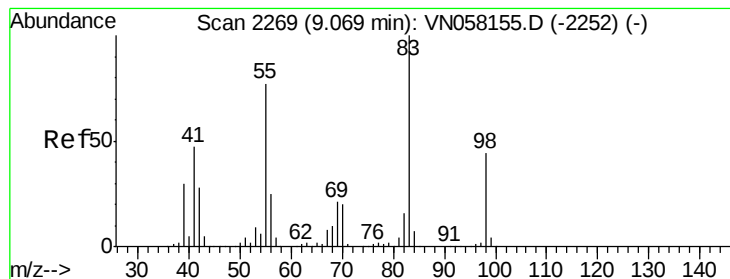
Ion Ratio Lower Upper

117 100

119 65.7 78.6 117.8#

121 0.0 24.1 36.1#





#39

Methvlcvclohexane

Concen: 0.373 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. -0.24 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

ClientSampleId :

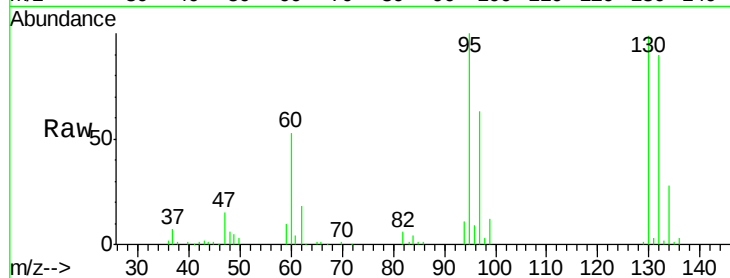
Tot Ion: 83 Resp: 1667

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

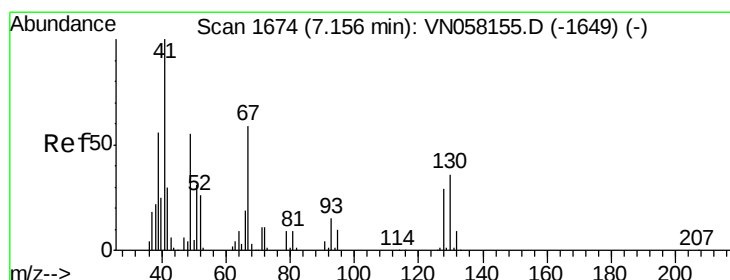
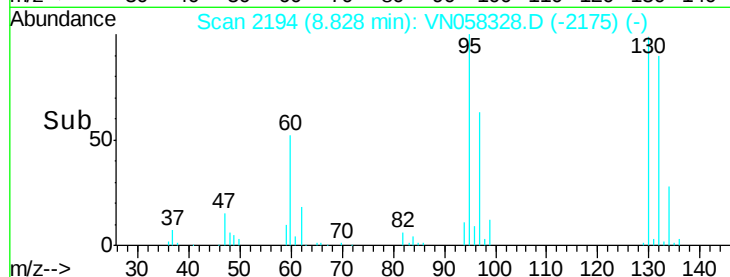
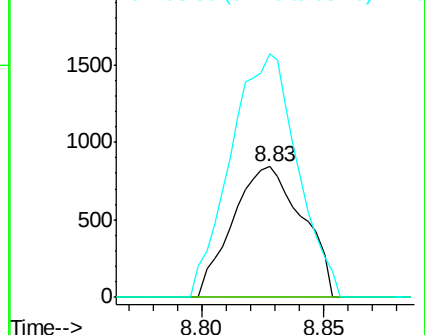
98 186.0 35.4 53.2#



Abundance Ion 83.00 (82.70 to 83.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 98.00 (97.70 to 98.70): VNC



#41

Methacrylonitrile

Concen: 0.931 ug/l

RT: 7.13 min Scan# 1666

Delta R.T. -0.02 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Tgt Ion: 41 Resp: 62

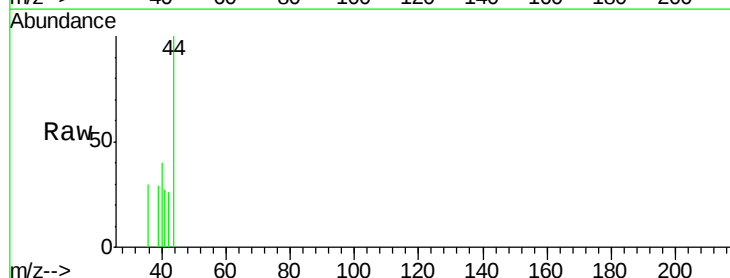
Ion Ratio Lower Upper

41 100

39 112.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

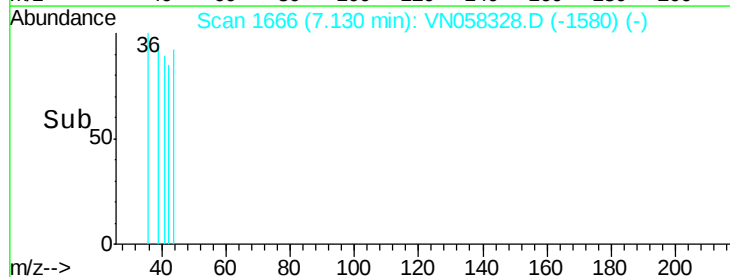
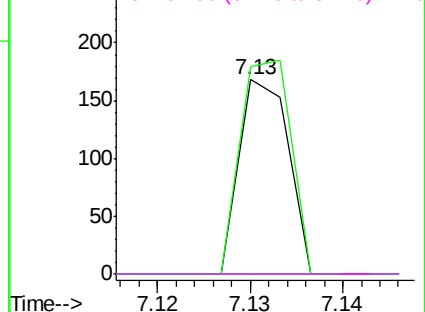


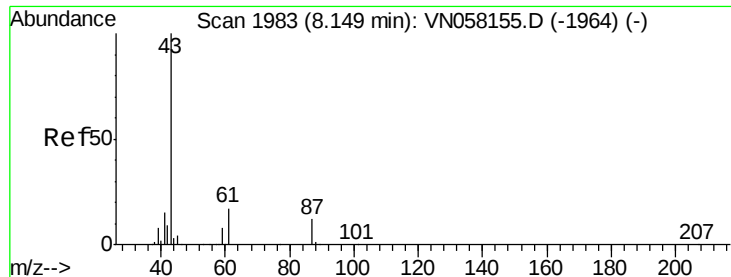
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 2.877 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.09 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

ClientSampleId :

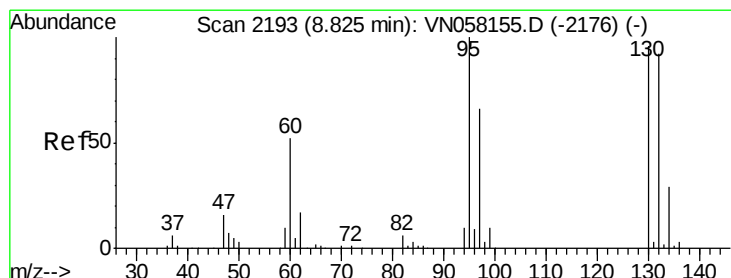
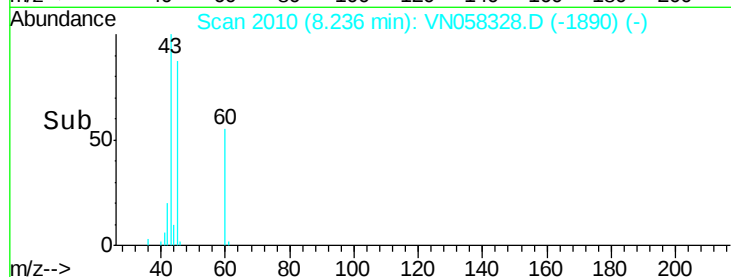
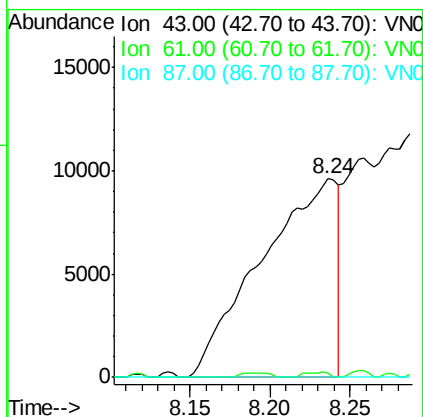
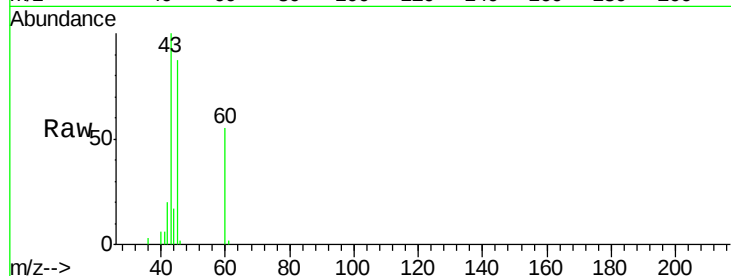
Tot Ion: 43 Resp: 31822

Ion Ratio Lower Upper

43 100

61 0.8 19.7 29.5#

87 0.0 9.4 14.2#



#44

Trichloroethene

Concen: 28.346 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058328.D

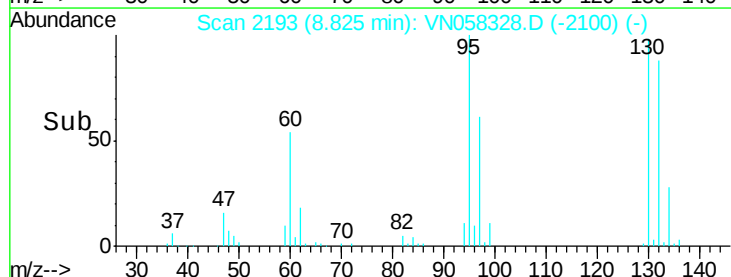
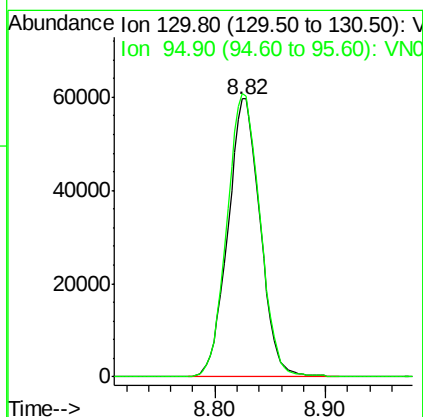
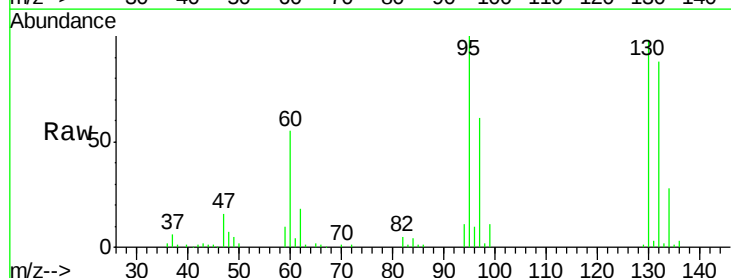
Acq: 24 Sep 2019 5:34

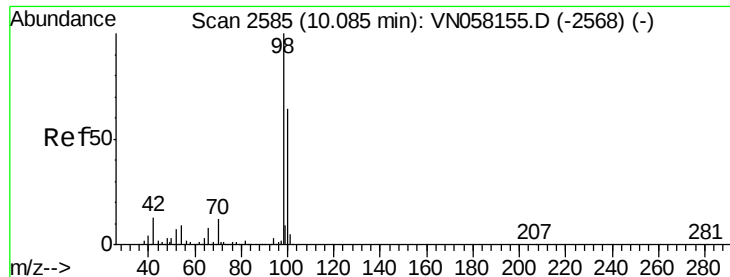
Tgt Ion: 130 Resp: 120903

Ion Ratio Lower Upper

130 100

95 101.9 0.0 207.8





#50

Toluene-d8

Concen: 53.657 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

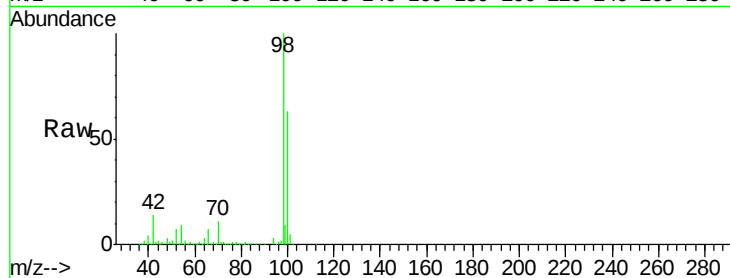
ClientSampled :

Tot Ion: 98 Resp: 1005671

Ion Ratio Lower Upper

98 100

100 63.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

600000

500000

400000

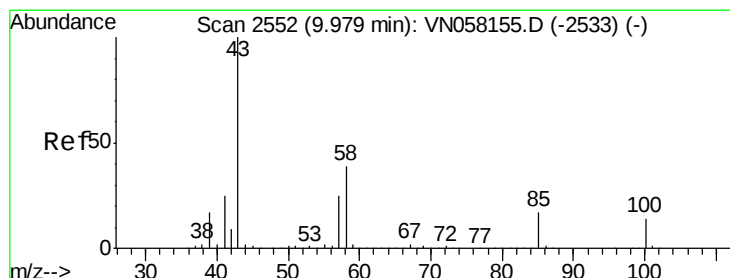
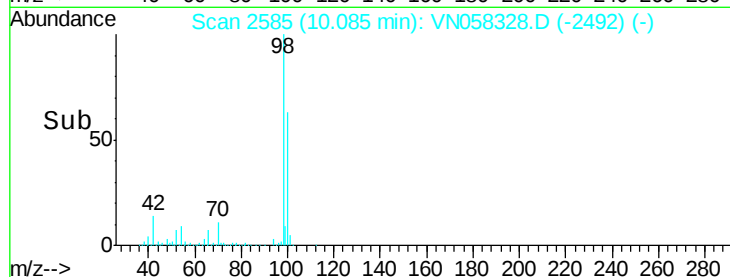
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.243 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN058328.D

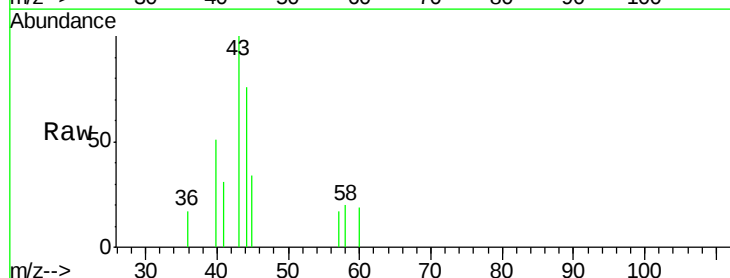
Acq: 24 Sep 2019 5:34

Tgt Ion: 43 Resp: 1425

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

1000

800

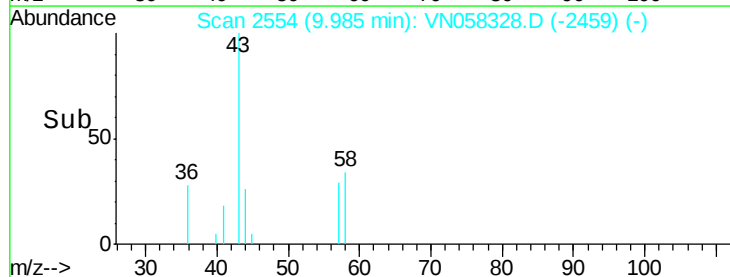
600

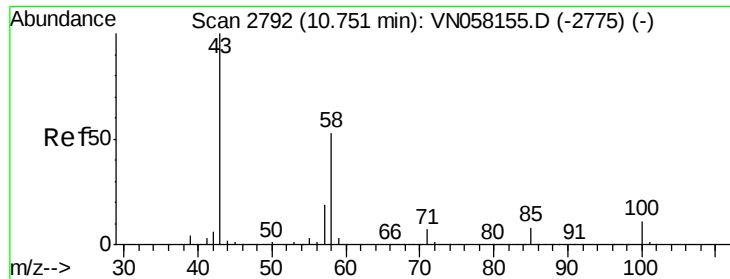
400

200

0

Time-->

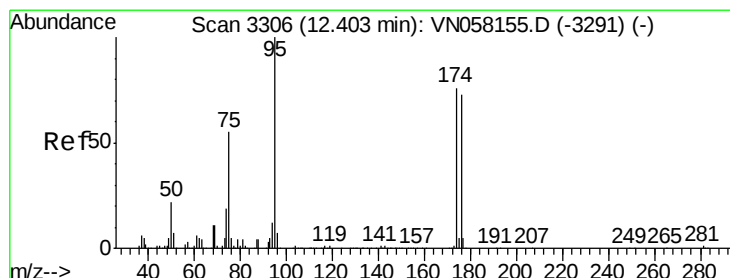
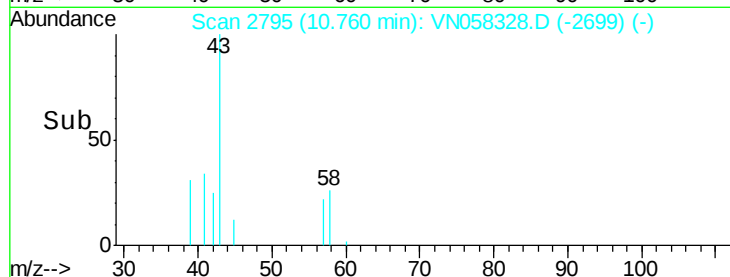
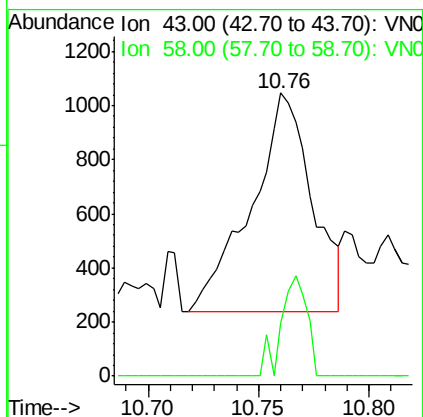
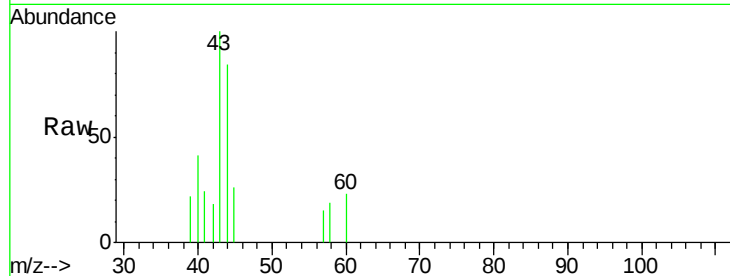




#59
2-Hexanone
Concen: 0.355 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN058328.D
Acq: 24 Sep 2019 5:34

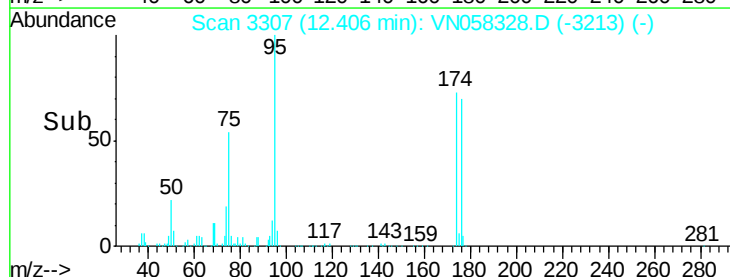
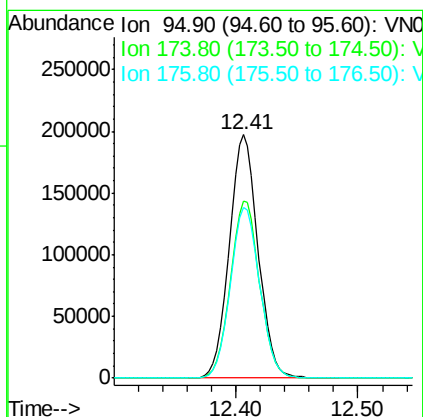
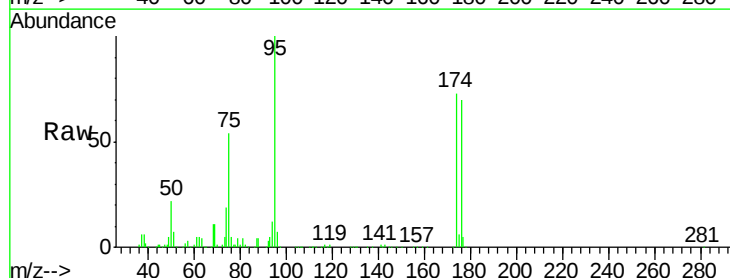
Instrument :
MSVOA_N
ClientSampled :

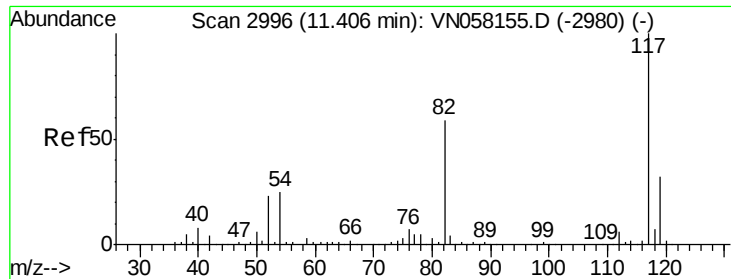
Tot Ion: 43 Resp: 1550
Ion Ratio Lower Upper
43 100
58 19.2 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 46.585 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058328.D
Acq: 24 Sep 2019 5:34

Tgt Ion: 95 Resp: 324333
Ion Ratio Lower Upper
95 100
174 73.8 0.0 152.2
176 71.6 0.0 148.0

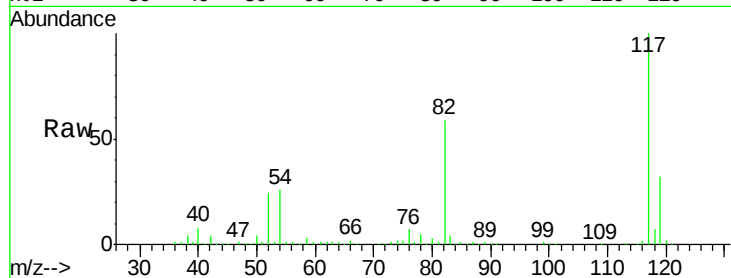




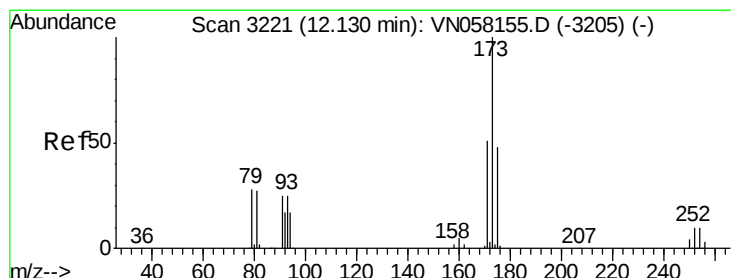
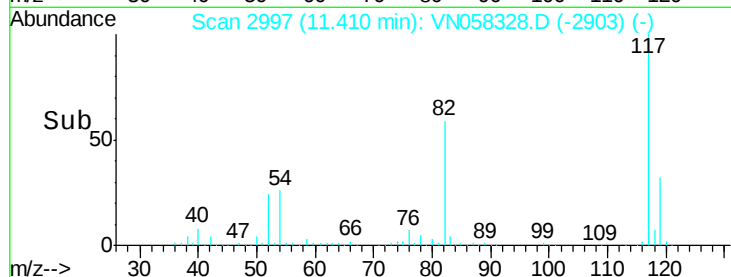
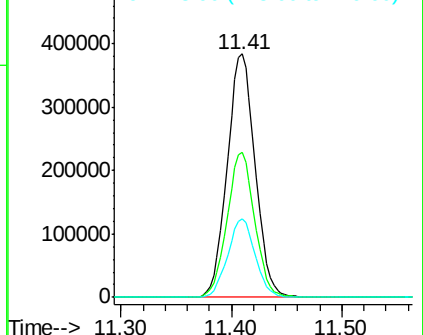
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058328.D
Acq: 24 Sep 2019 5:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 673903
Ion Ratio Lower Upper
117 100
82 59.4 46.9 70.3
119 32.2 25.3 37.9

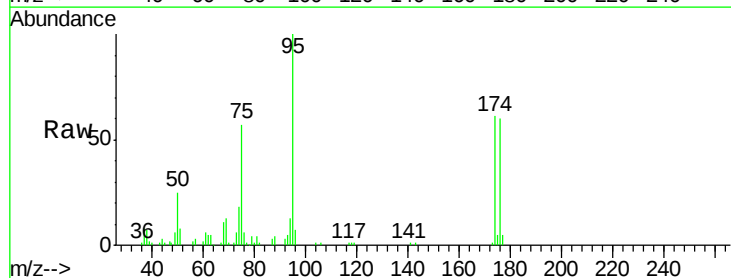


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

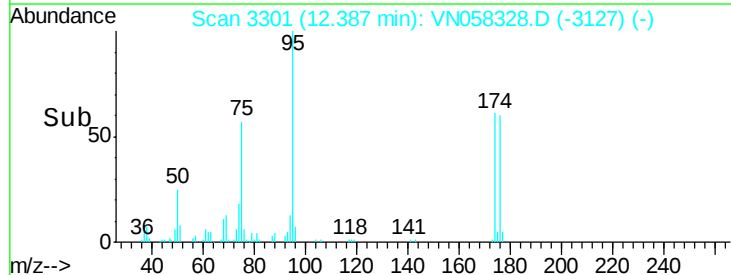
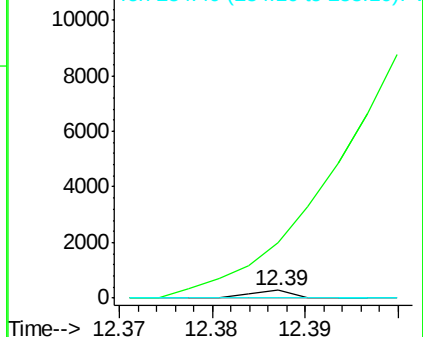


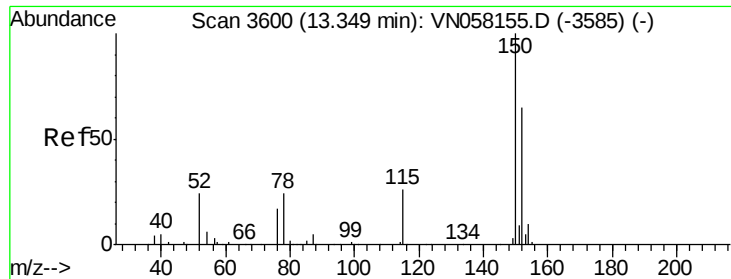
#71
Bromoform
Concen: 3.620 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN058328.D
Acq: 24 Sep 2019 5:34

Tgt Ion:173 Resp: 84
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: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

ClientSampleId :

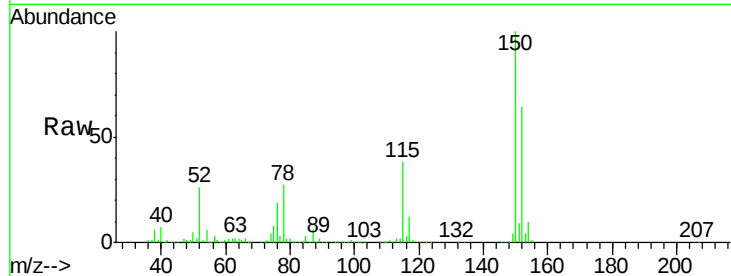
Tot Ion:152 Resp: 274931

Ion Ratio Lower Upper

152 100

115 61.5 30.1 90.3

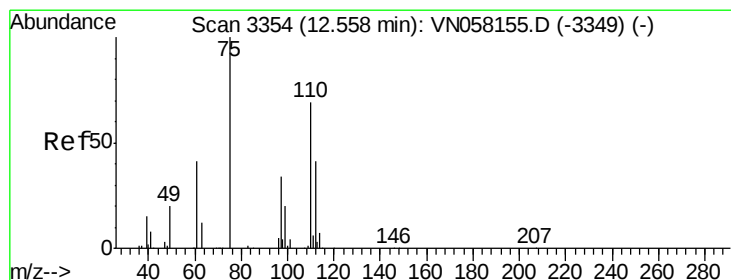
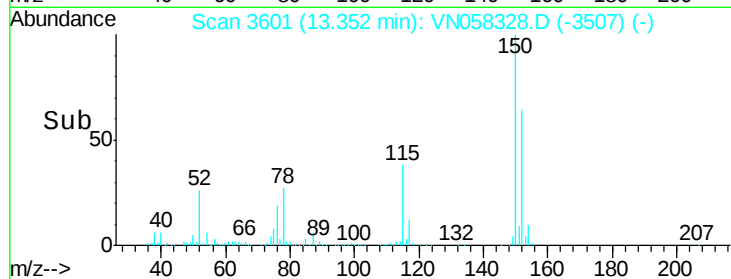
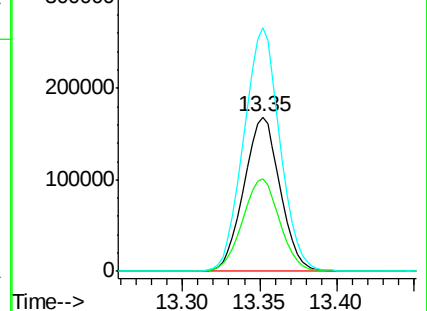
150 157.9 0.0 346.4



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: 35.958 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058328.D

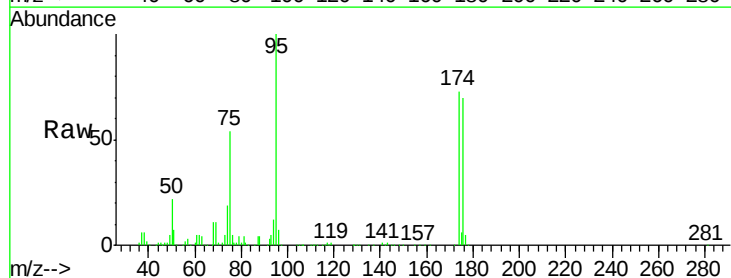
Acq: 24 Sep 2019 5:34

Tgt Ion: 75 Resp: 176928

Ion Ratio Lower Upper

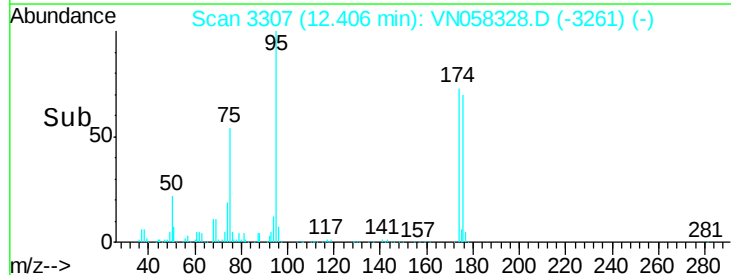
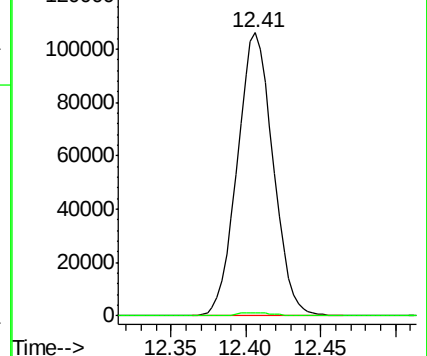
75 100

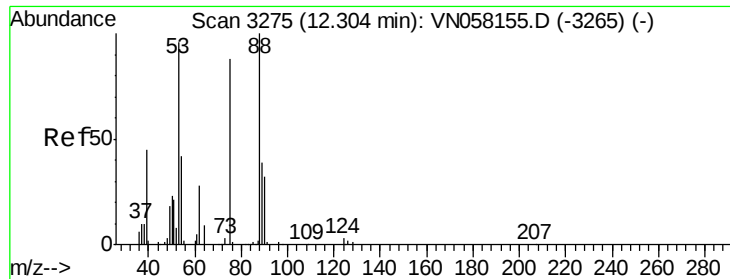
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 100.429 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

ClientSampleId :

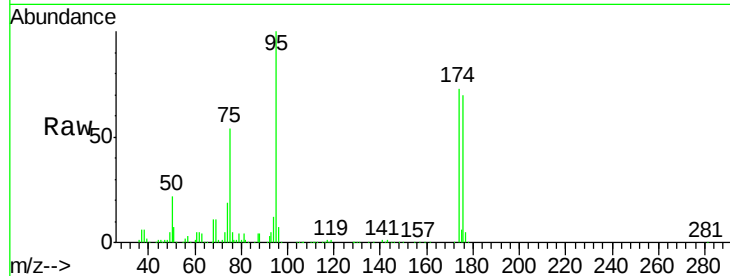
Tot Ion: 75 Resp: 176928

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

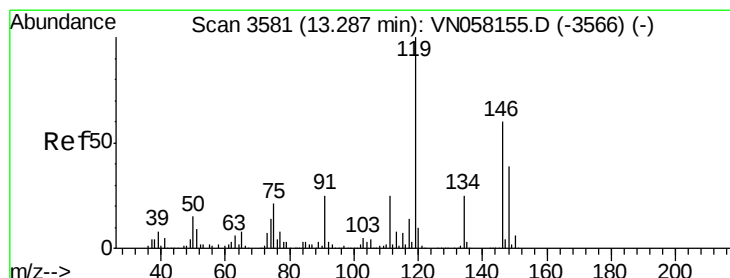
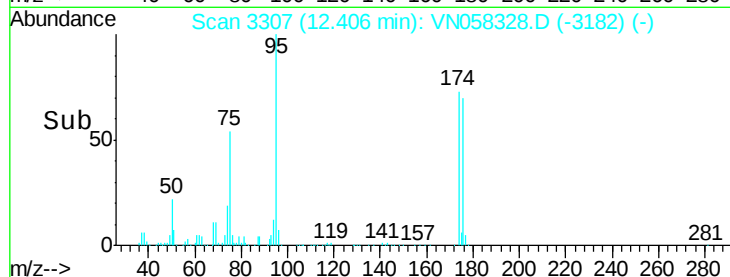
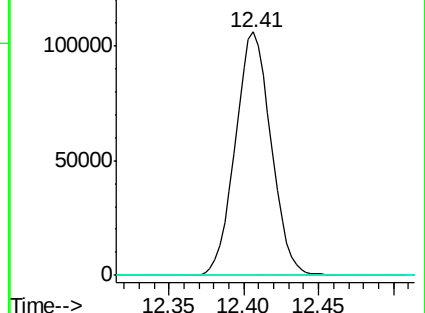
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058328.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058328.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058328.D (-3182) (-)



#87

1,3-Dichlorobenzene

Concen: 0.212 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.01 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

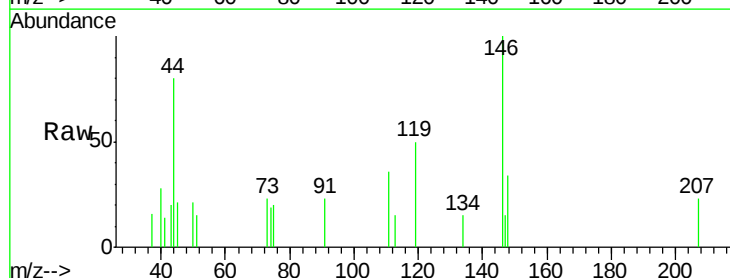
Tgt Ion: 146 Resp: 1675

Ion Ratio Lower Upper

146 100

111 29.0 20.9 62.8

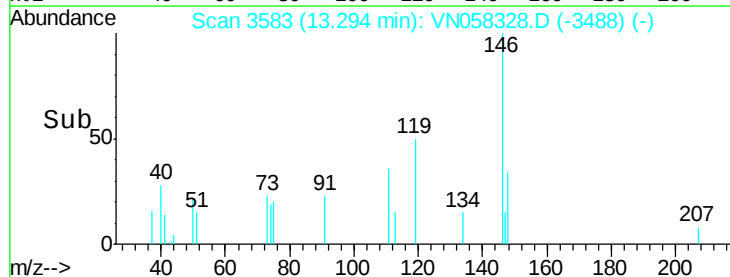
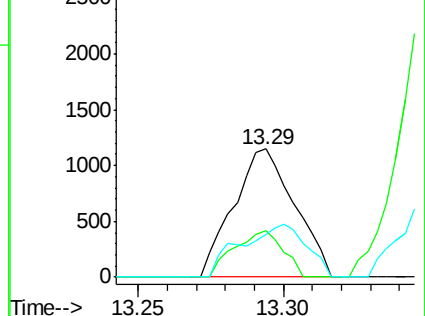
148 44.5 32.0 96.2

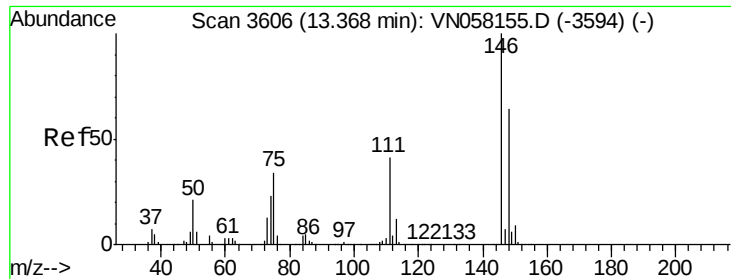


Abundance Ion 145.90 (145.60 to 146.60): VN058328.D (-3488) (-)

Ion 110.90 (110.60 to 111.60): VN058328.D (-3488) (-)

Ion 147.90 (147.60 to 148.60): VN058328.D (-3488) (-)





#88

1,4-Dichlorobenzene

Concen: 0.208 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. -0.07 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

ClientSampleId :

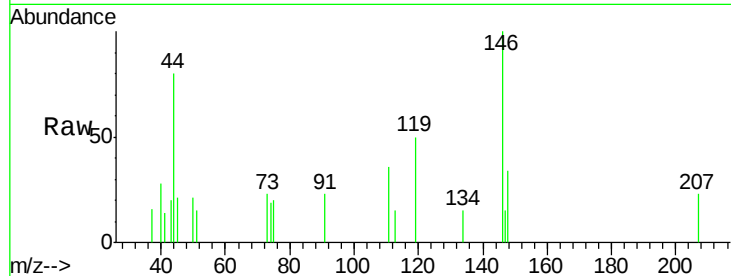
Tot Ion:146 Resp: 1675

Ion Ratio Lower Upper

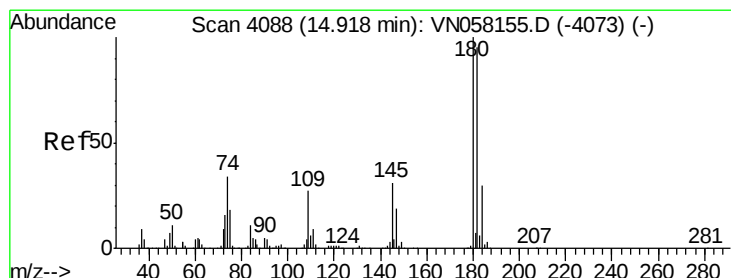
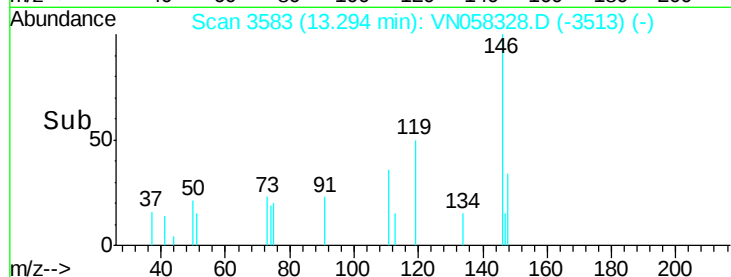
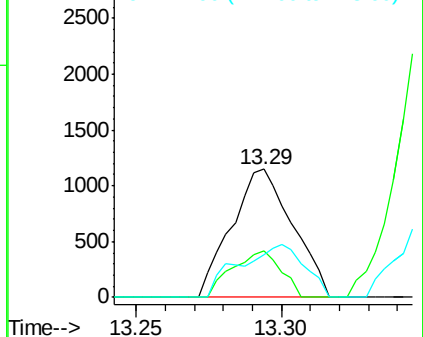
146 100

111 29.0 20.5 61.5

148 44.5 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.475 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.00 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

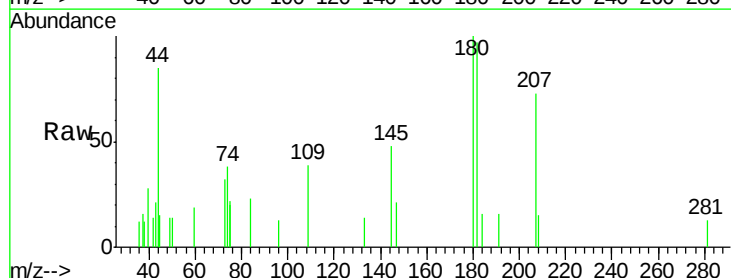
Tgt Ion:180 Resp: 2408

Ion Ratio Lower Upper

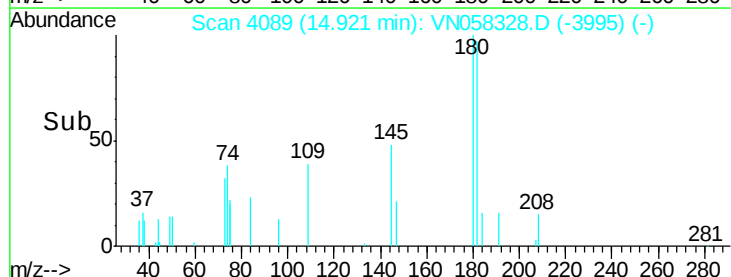
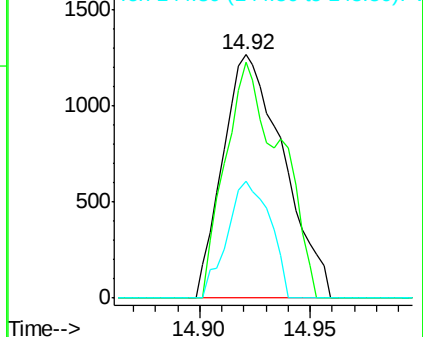
180 100

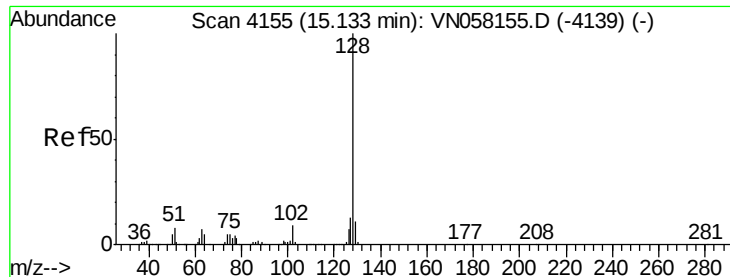
182 88.6 47.8 143.3

145 34.1 15.4 46.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.874 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

Instrument :

MSVOA_N

ClientSampled :

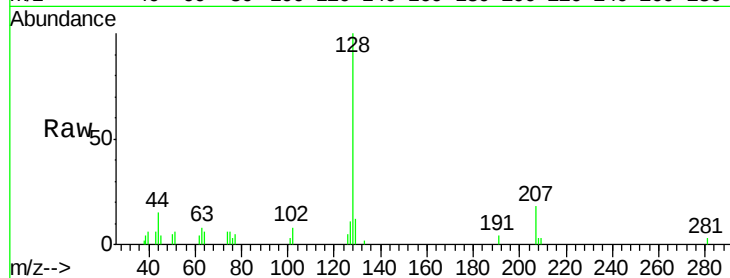
Tot Ion:128 Resp: 11476

Ion Ratio Lower Upper

128 100

127 9.1 10.2 15.2#

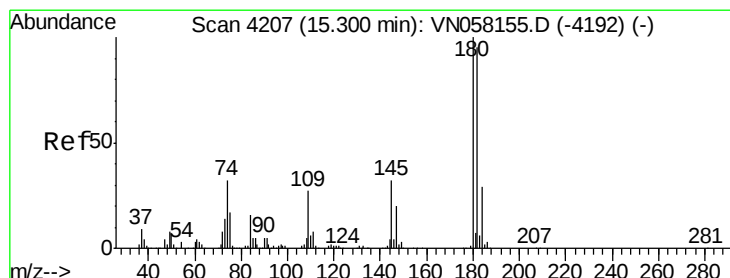
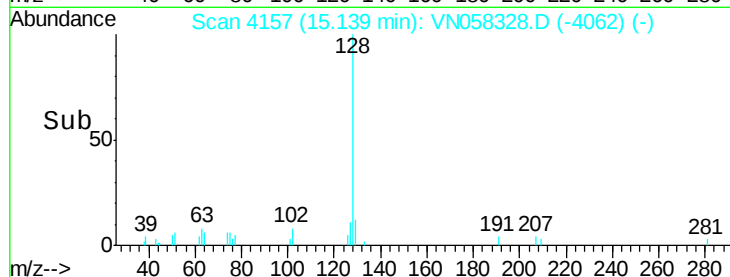
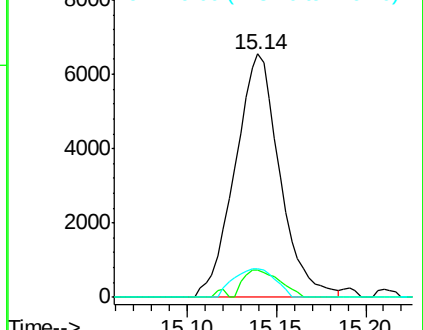
129 10.9 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 0.576 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. 0.01 min

Lab File: VN058328.D

Acq: 24 Sep 2019 5:34

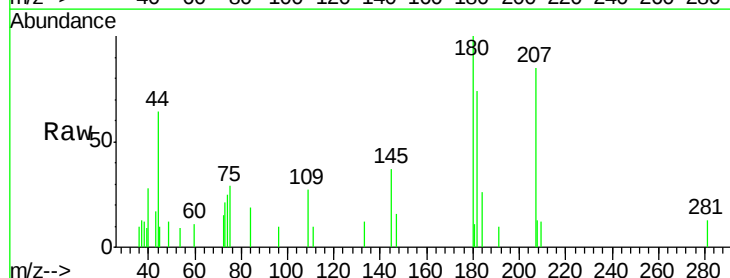
Tgt Ion:180 Resp: 2757

Ion Ratio Lower Upper

180 100

182 54.4 47.4 142.2

145 34.9 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

