

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055522.D
 Acq On : 10 May 2019 2:29
 Operator : JC/SP
 Sample : K2758-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 10 04:21:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	888211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1482833	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1227078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	317912	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	597995	44.72	ug/l	0.00
Spiked Amount			Recovery	=	89.44%	
35) Dibromofluoromethane	7.59	113	466393	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
50) Toluene-d8	10.09	98	1807025	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	12.40	95	499684	39.76	ug/l	0.00
Spiked Amount			Recovery	=	79.52%	

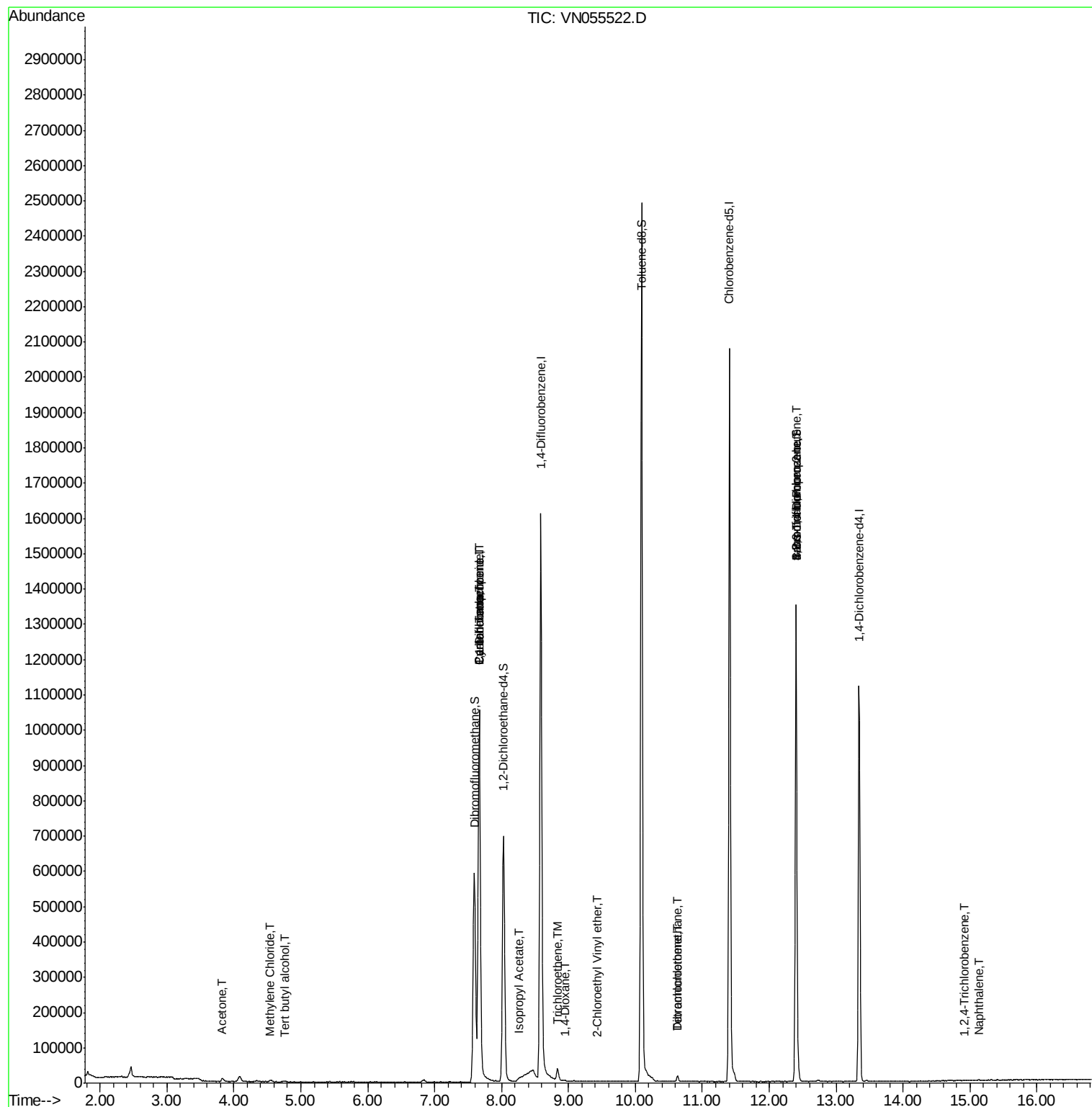
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	685	0.347	ug/l #	73
16) Acetone	3.83	43	13040	2.106	ug/l	100
18) Methyl Acetate	4.34	43	5948	Below Cal	#	86
20) Methylene Chloride	4.55	84	2752	0.217	ug/l #	59
31) Cyclohexane	7.67	56	19095	0.885	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	72216	4.943	ug/l #	46
38) Carbon Tetrachloride	7.66	117	85603	6.959	ug/l #	16
43) Isopropyl Acetate	8.25	43	5520	0.228	ug/l #	63
44) Trichloroethene	8.83	130	11192	1.037	ug/l	99
49) 1,4-Dioxane	8.95	88	68	0.299	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.43	63	78	12.526	ug/l #	52
60) Dibromochloromethane	10.63	129	3276	0.343	ug/l #	11
64) Tetrachloroethene	10.63	164	3751	0.373	ug/l	93
71) Bromoform	12.40	173	3614	0.616	ug/l #	1
73) Isopropylbenzene	12.25	105	251	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.43	83	31	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	249181	28.792	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	249181	106.237	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.92	180	65	3.218	ug/l #	1
94) Hexachlorobutadiene	15.01	225	148	Below Cal	#	47
95) Naphthalene	15.13	128	438	2.968	ug/l #	70

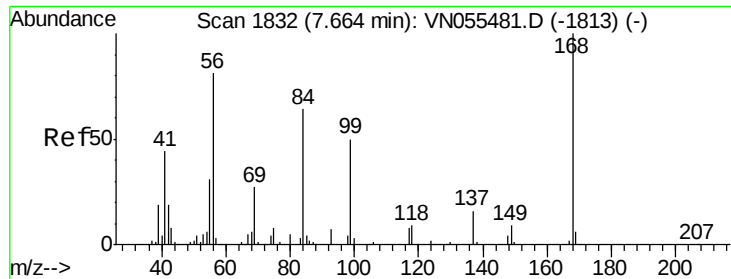
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 04:17:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

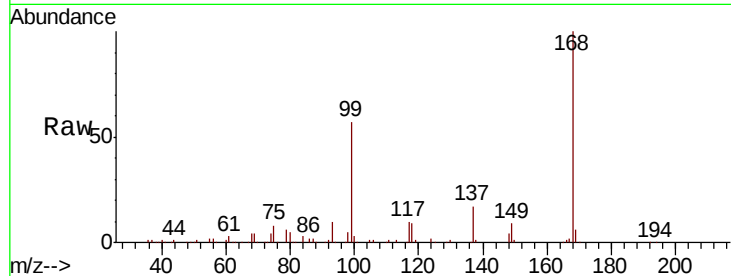
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 888211

Ion Ratio Lower Upper

168 100

99 57.3 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.67

400000

300000

200000

100000

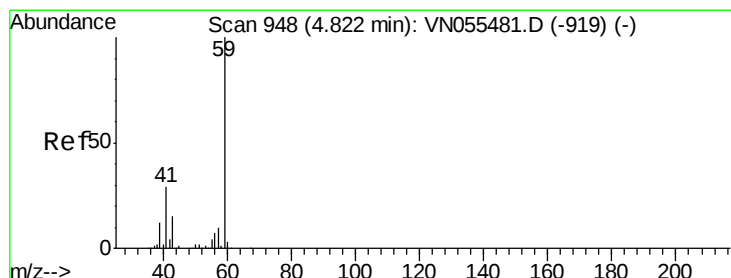
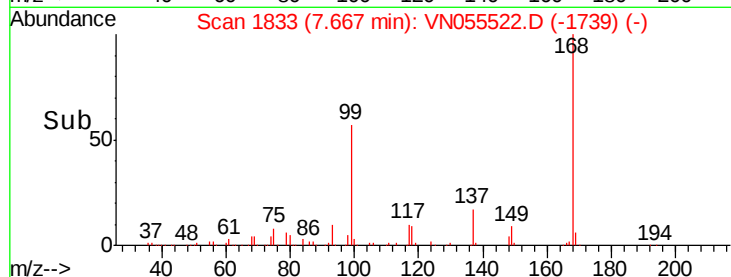
0

Time-->

7.60

7.70

7.80



#11

Tert butyl alcohol

Concen: 0.347 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.08 min

Lab File: VN055522.D

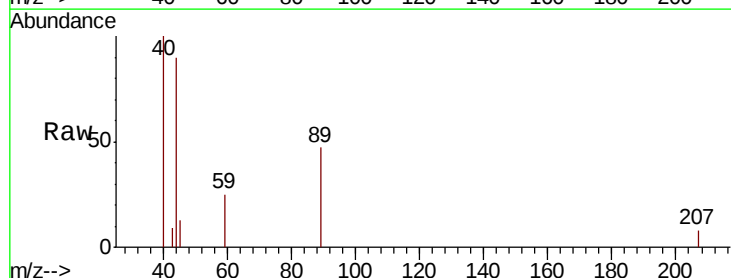
Acq: 10 May 2019 2:29

Tgt Ion: 59 Resp: 685

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): V

Ion 57.00 (56.70 to 57.70): V

4.74

600

500

400

300

200

100

0

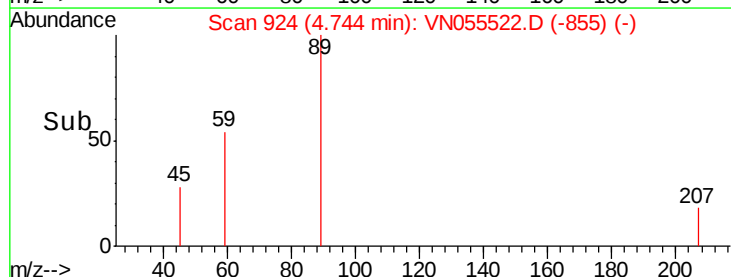
Time-->

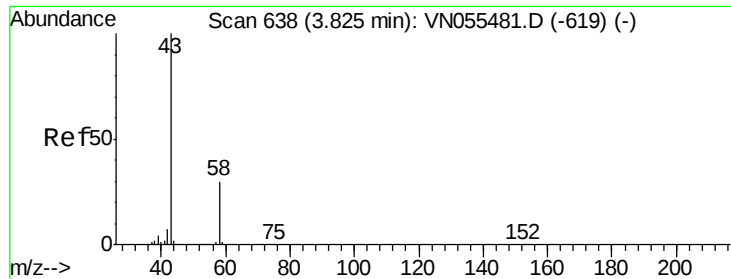
4.70

4.72

4.74

4.76





#16

Acetone

Concen: 2.106 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

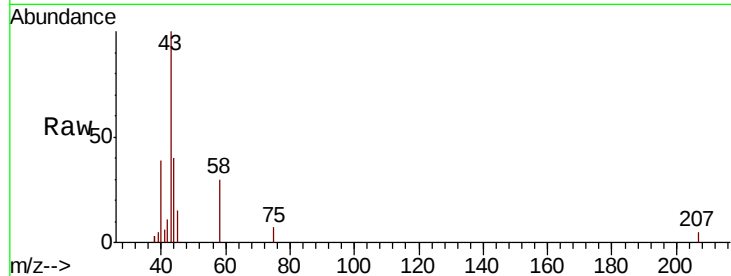
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 13040

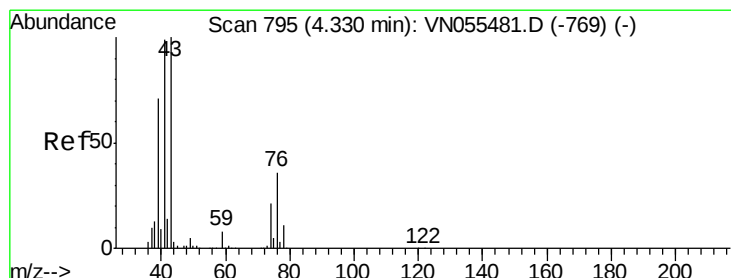
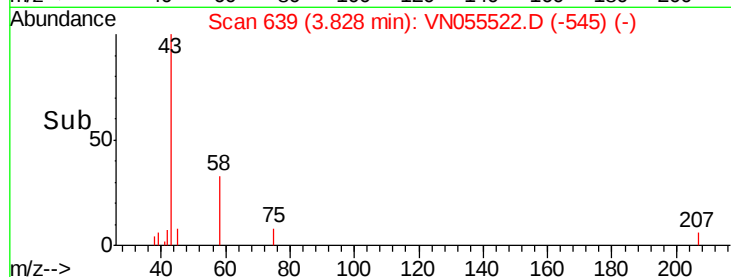
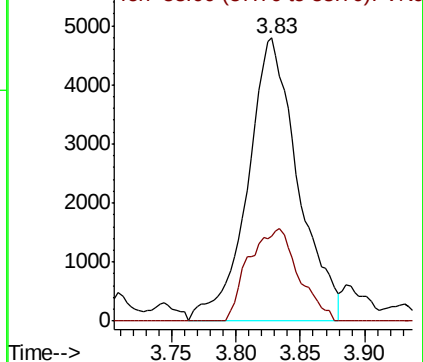
Ion Ratio Lower Upper

43 100

58 30.1 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055522.D

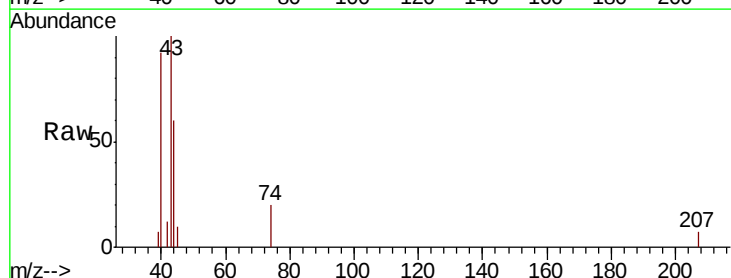
Acq: 10 May 2019 2:29

Tgt Ion: 43 Resp: 5948

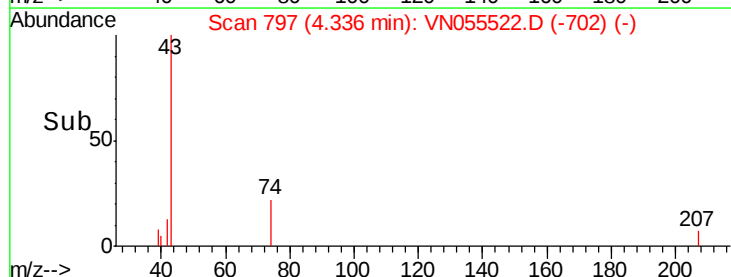
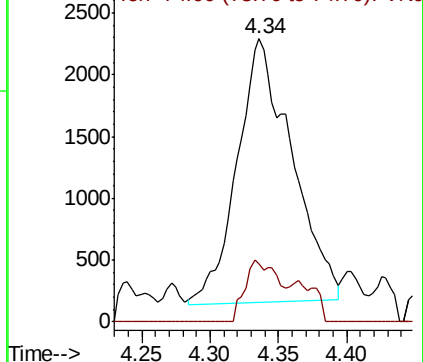
Ion Ratio Lower Upper

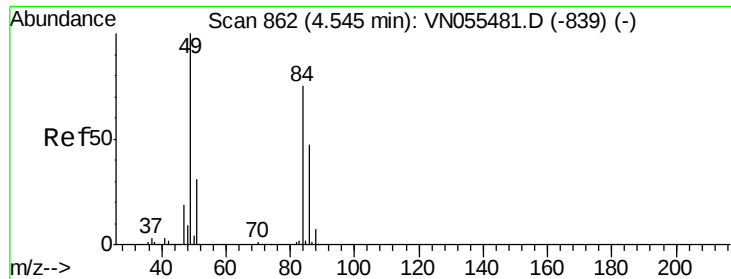
43 100

74 13.9 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 0.217 ug/l

RT: 4.55 min Scan# 863

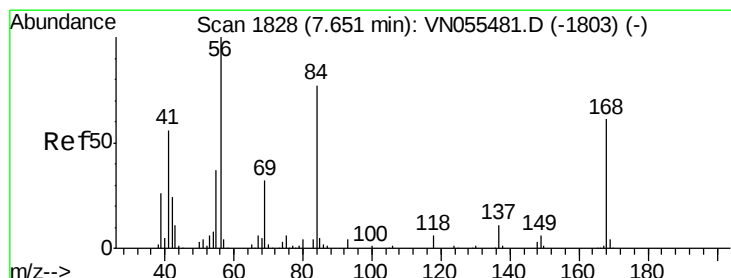
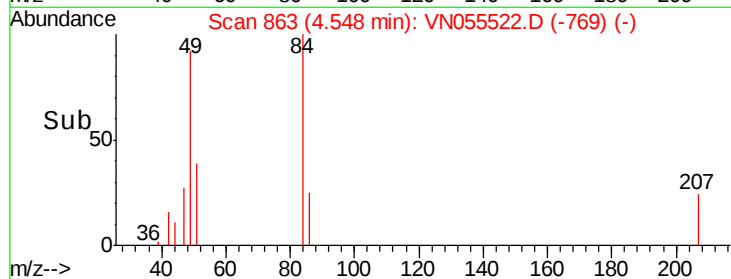
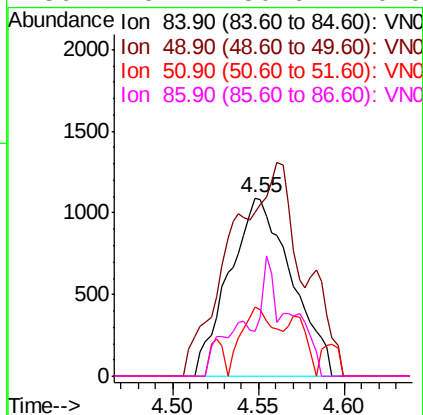
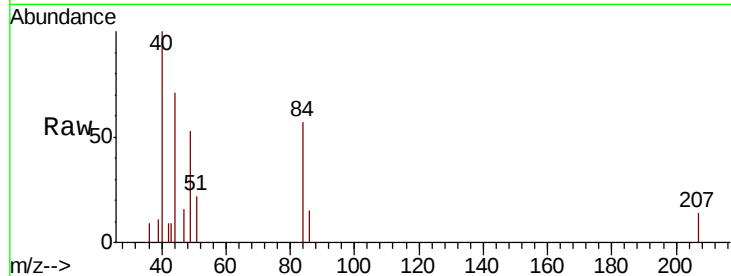
Delta R.T. 0.00 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	2752
Ion	Ratio	Lower	Upper
84	100		
49	76.3	107.0	160.6#
51	39.0	33.0	49.4
86	25.4	50.6	76.0#



#31

Cyclohexane

Concen: 0.885 ug/l

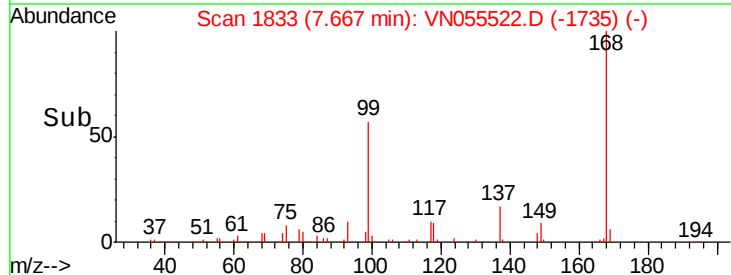
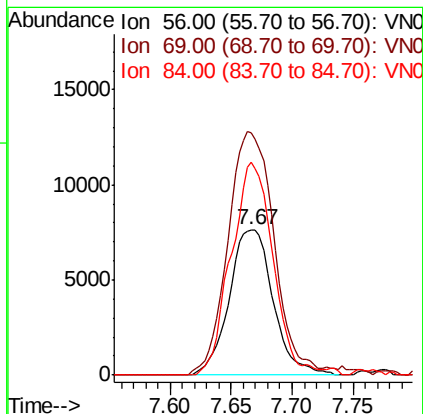
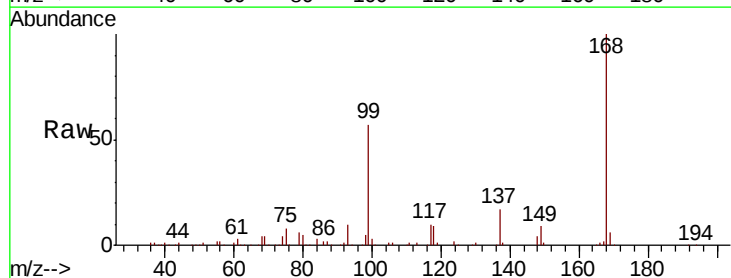
RT: 7.67 min Scan# 1833

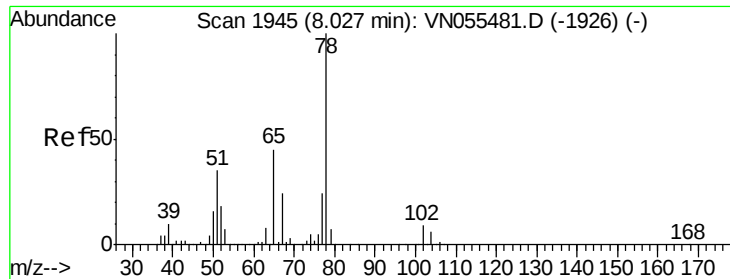
Delta R.T. 0.02 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

Tgt Ion:	56	Resp:	19095
Ion	Ratio	Lower	Upper
56	100		
69	167.0	26.0	39.0#
84	146.8	61.9	92.9#

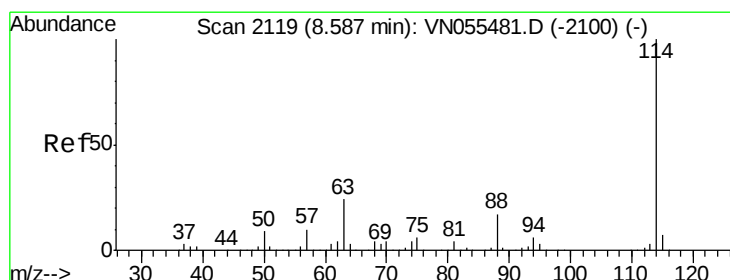
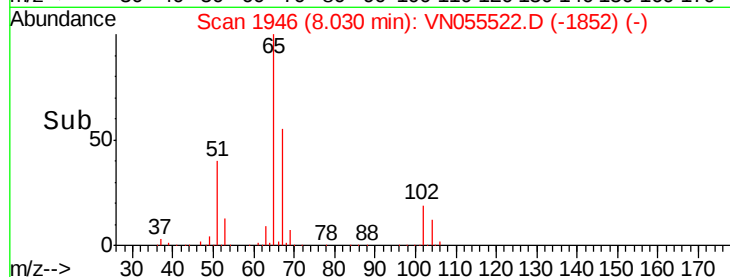
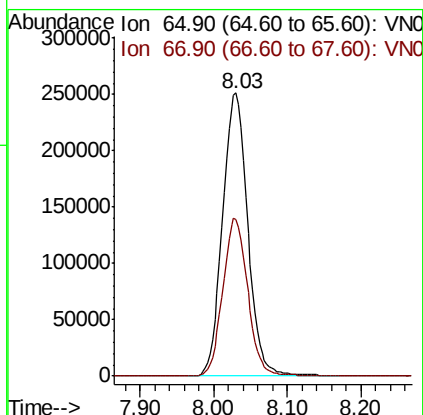
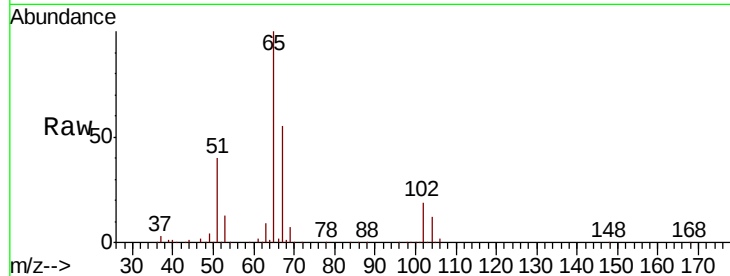




#33
 1,2-Dichloroethane-d4
 Concen: 44.715 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055522.D
 Acq: 10 May 2019 2:29

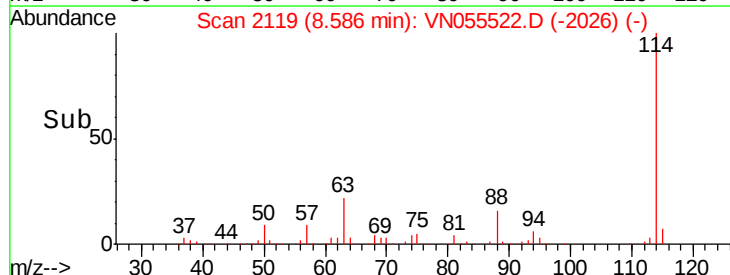
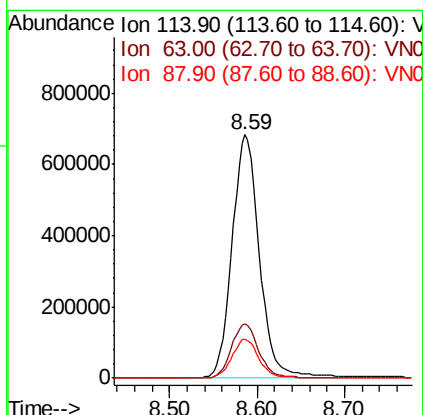
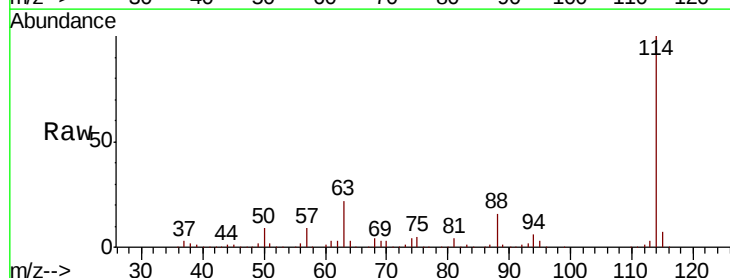
Instrument :
 MSVOA_N
 ClientSampleId :

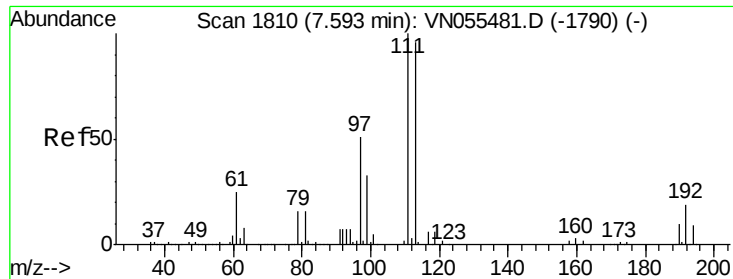
Tot Ion: 65 Resp: 597995
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055522.D
 Acq: 10 May 2019 2:29

Tgt Ion: 114 Resp: 1482833
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 47.4
 88 16.2 0.0 34.0

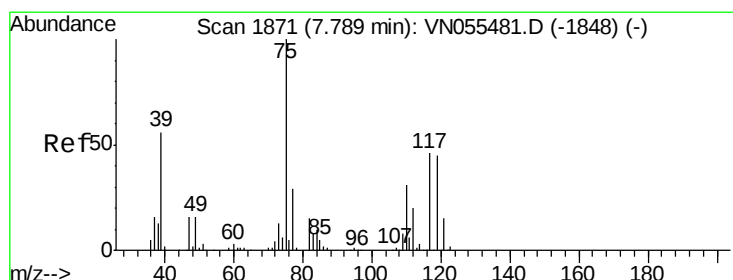
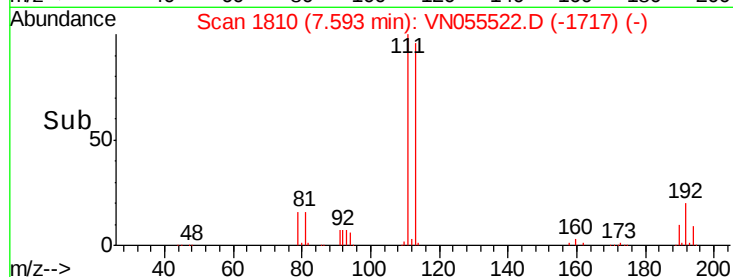
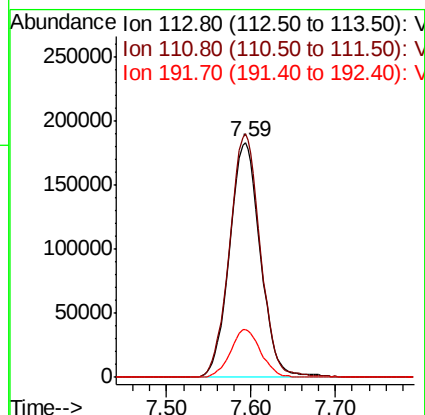
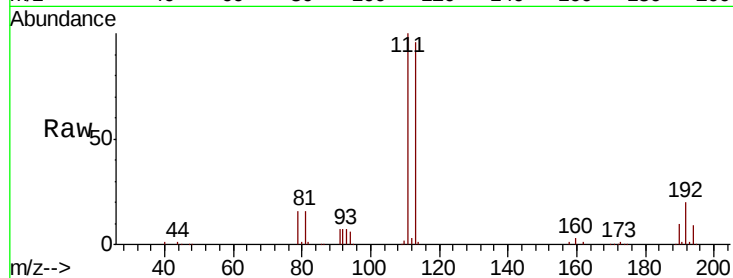




#35
 Dibromofluoromethane
 Concen: 48.758 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055522.D
 Acq: 10 May 2019 2:29

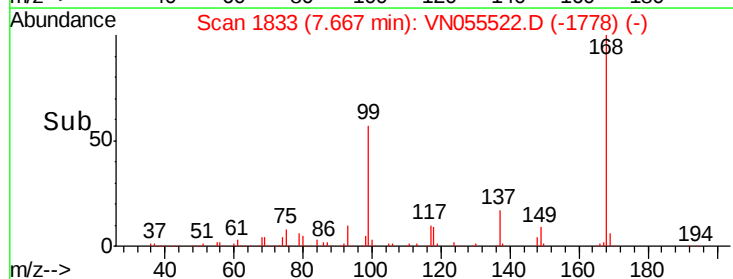
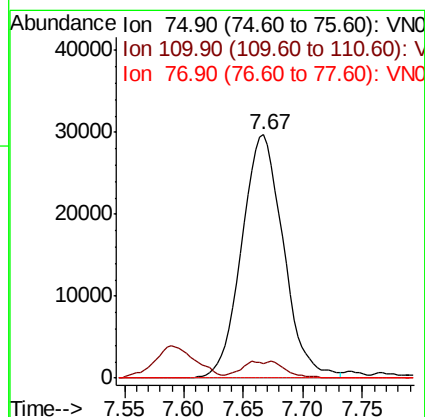
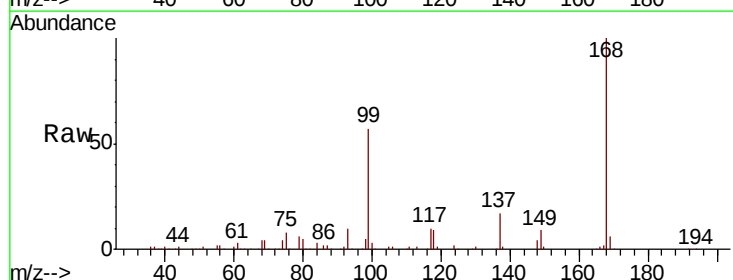
Instrument :
 MSVOA_N
 ClientSampleId :

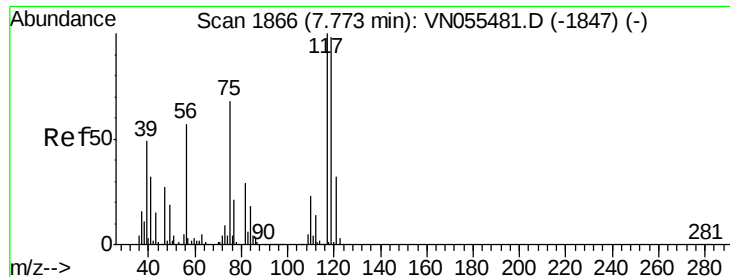
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.9	124.3
192	20.0	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.943 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055522.D
 Acq: 10 May 2019 2:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.8	16.1	48.3#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.959 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

Instrument :

MSVOA_N

ClientSampled :

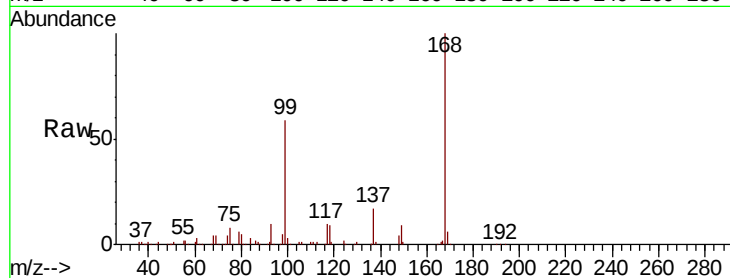
Tot Ion:117 Resp: 85603

Ion Ratio Lower Upper

117 100

119 5.4 77.8 116.6#

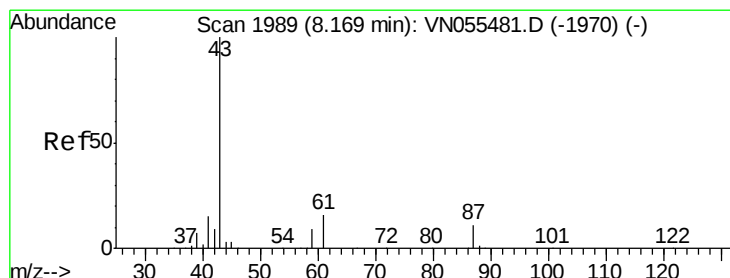
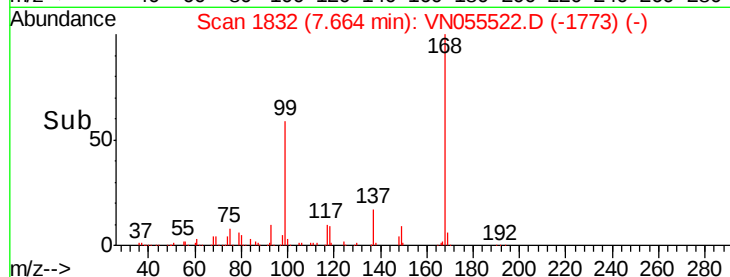
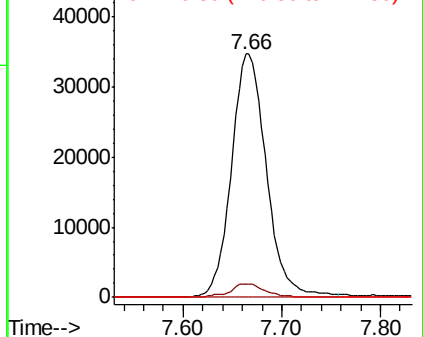
121 0.0 25.2 37.8#



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



#43

Isopropyl Acetate

Concen: 0.228 ug/l

RT: 8.25 min Scan# 2015

Delta R.T. 0.08 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

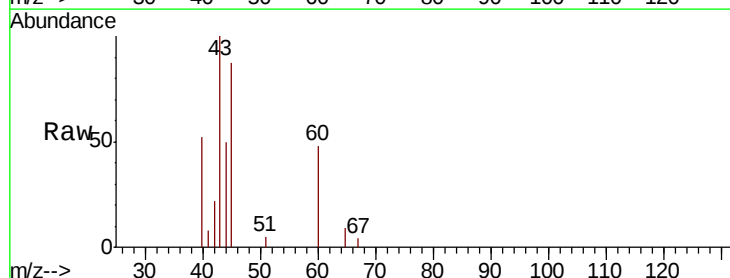
Tgt Ion: 43 Resp: 5520

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

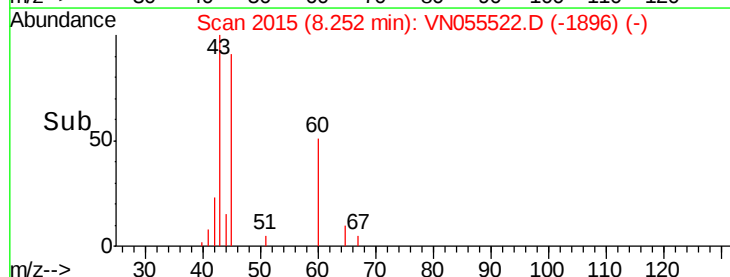
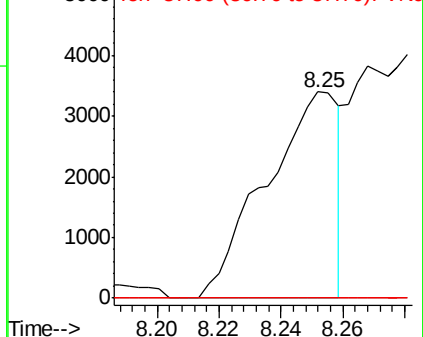
87 0.0 9.0 13.6#

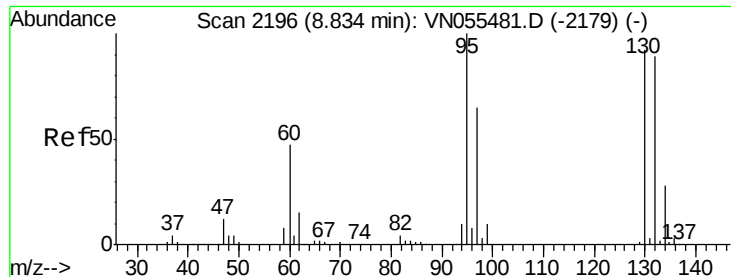


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#44

Trichloroethene

Concen: 1.037 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

Instrument :

MSVOA_N

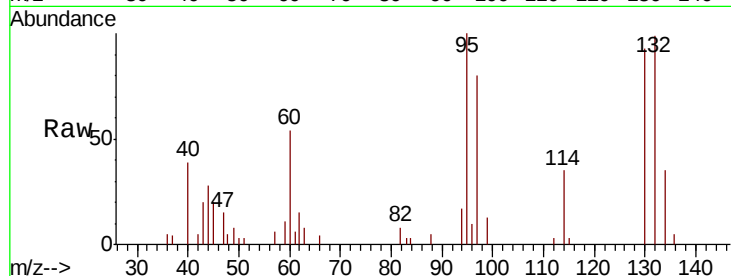
ClientSampleId :

Tot Ion:130 Resp: 11192

Ion Ratio Lower Upper

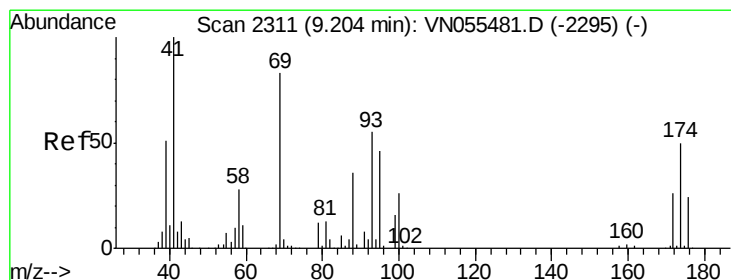
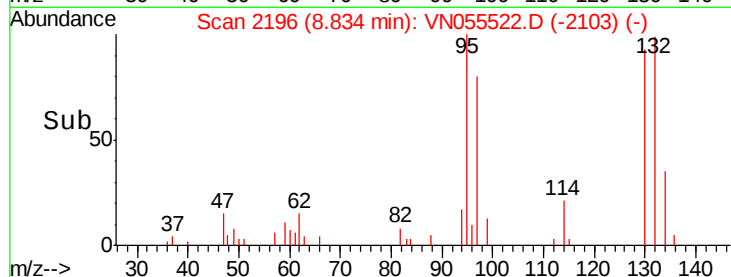
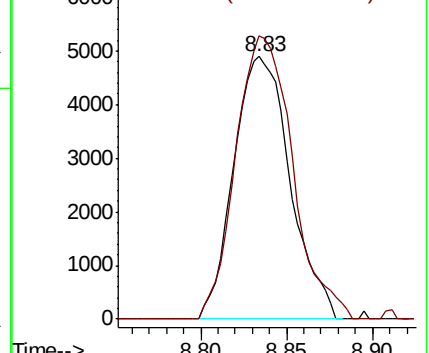
130 100

95 107.8 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#49

1,4-Dioxane

Concen: 0.299 ug/l

RT: 8.95 min Scan# 2233

Delta R.T. -0.25 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

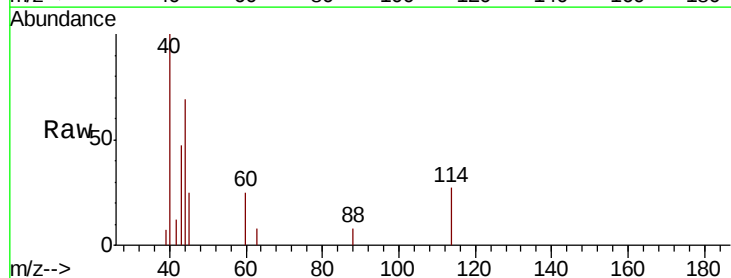
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 235.3 27.8 41.8#

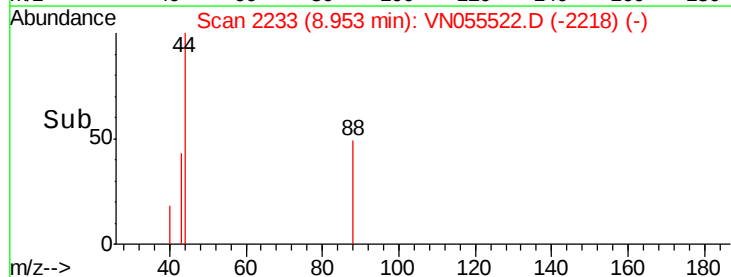
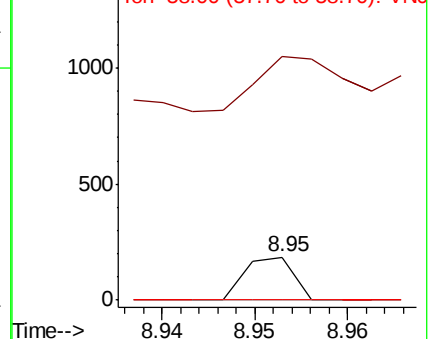
58 0.0 61.8 92.6#

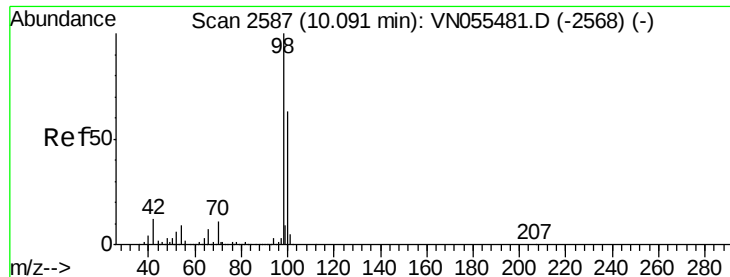


Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#50

Toluene-d8

Concen: 48.477 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

Instrument :

MSVOA_N

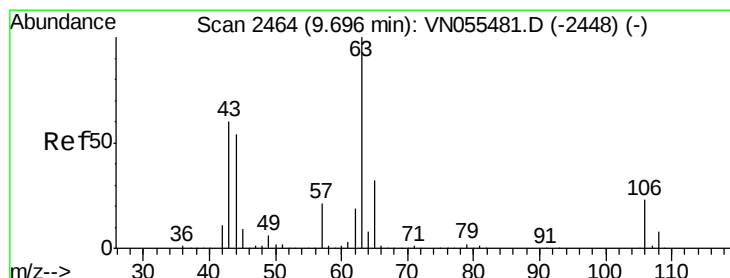
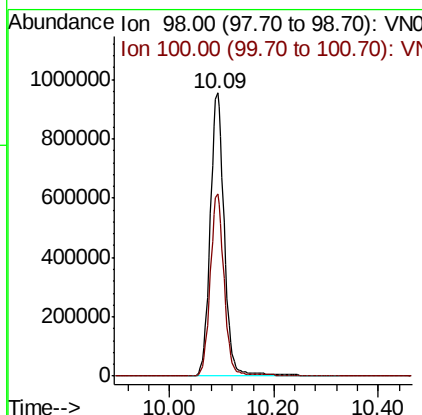
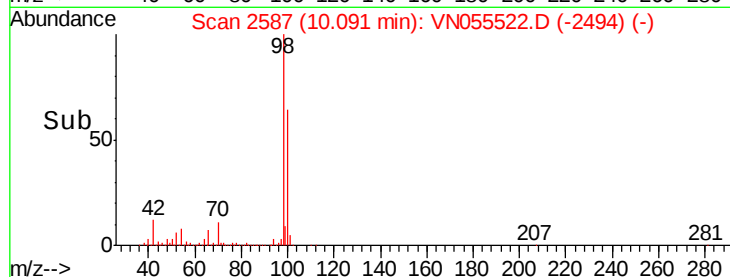
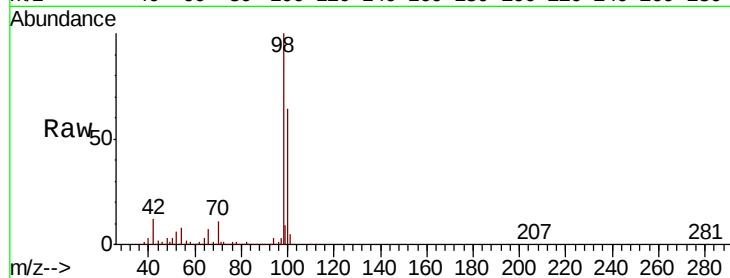
ClientSampled :

Tot Ion: 98 Resp: 1807025

Ion Ratio Lower Upper

98 100

100 63.3 50.4 75.6



#58

2-Chloroethyl Vinyl ether

Concen: 12.526 ug/l

RT: 9.43 min Scan# 2381

Delta R.T. -0.27 min

Lab File: VN055522.D

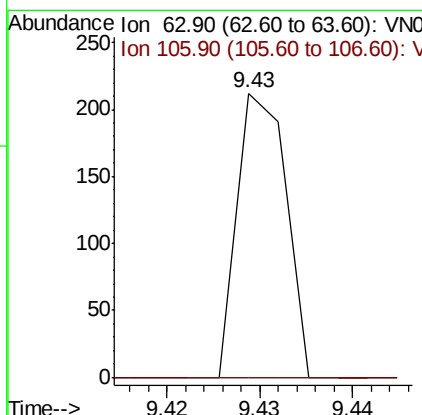
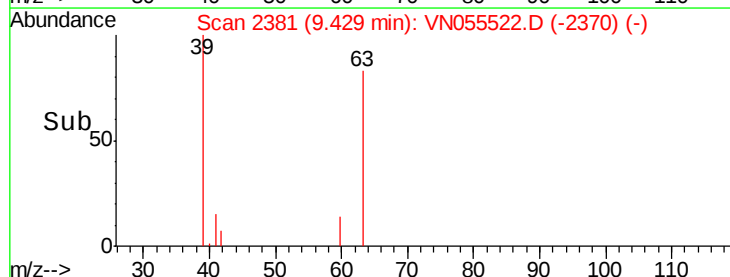
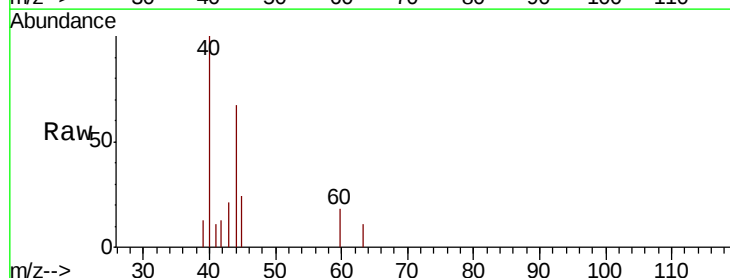
Acq: 10 May 2019 2:29

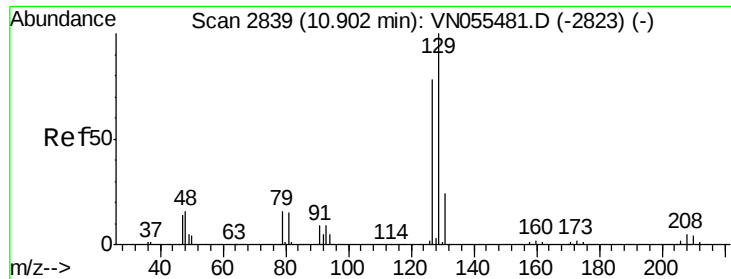
Tgt Ion: 63 Resp: 78

Ion Ratio Lower Upper

63 100

106 0.0 18.6 27.8#

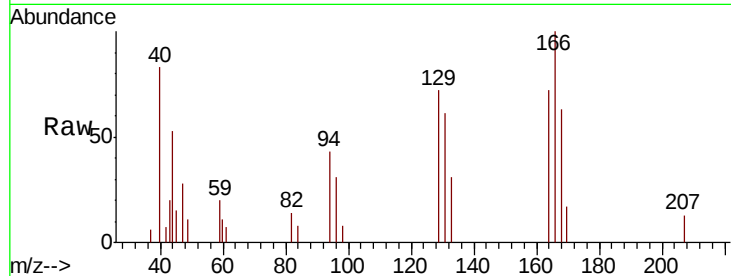




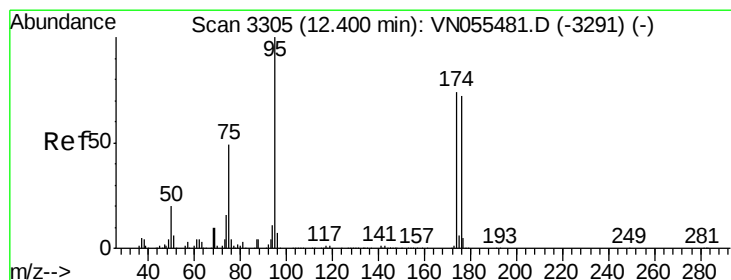
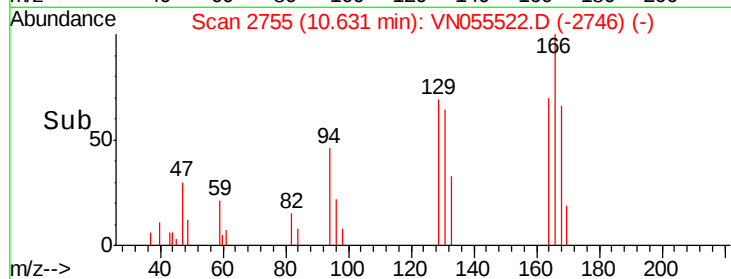
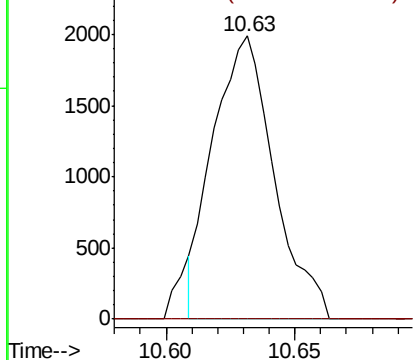
#60
Dibromochloromethane
Concen: 0.343 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN055522.D
Acq: 10 May 2019 2:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:129 Resp: 3276
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

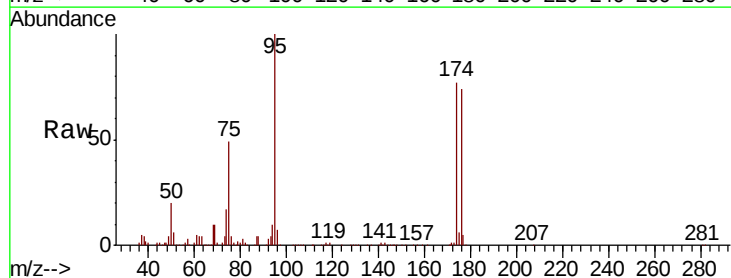


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

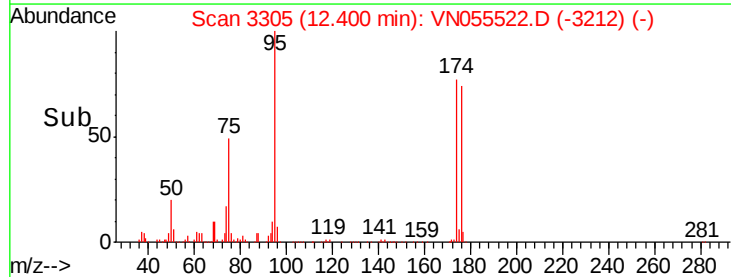
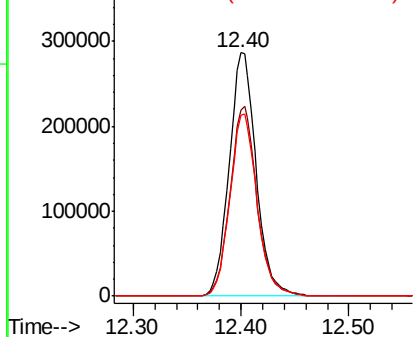


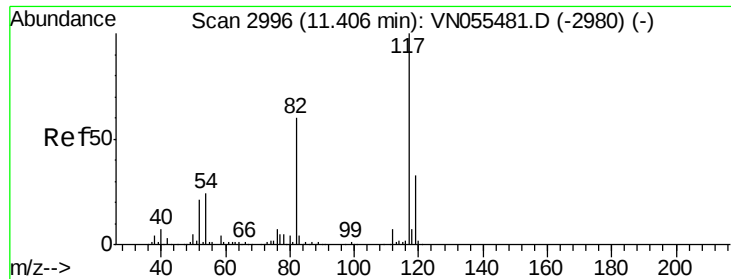
#62
4-Bromofluorobenzene
Concen: 39.756 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055522.D
Acq: 10 May 2019 2:29

Tgt Ion: 95 Resp: 499684
Ion Ratio Lower Upper
95 100
174 77.8 0.0 152.2
176 75.3 0.0 147.8



Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

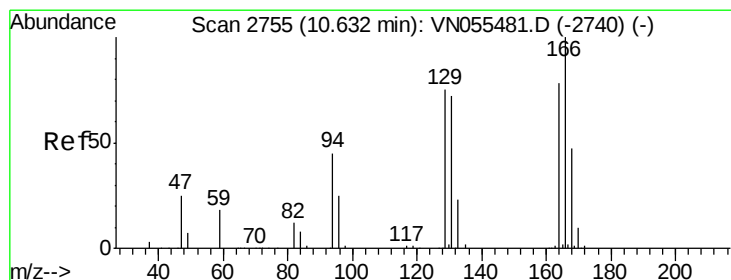
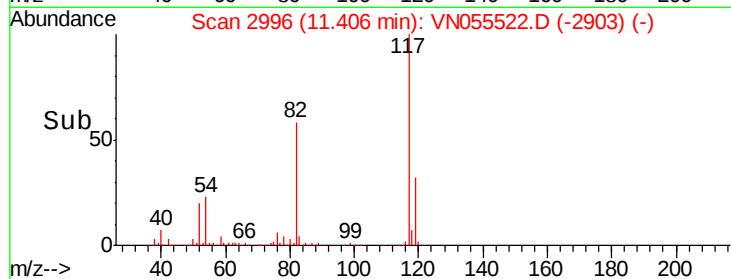
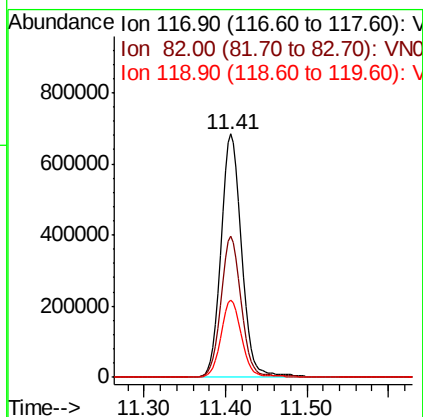
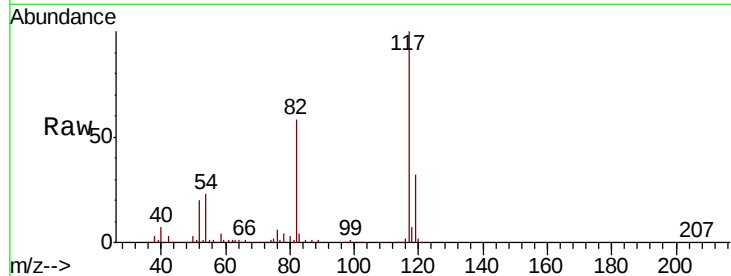




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055522.D
Acq: 10 May 2019 2:29

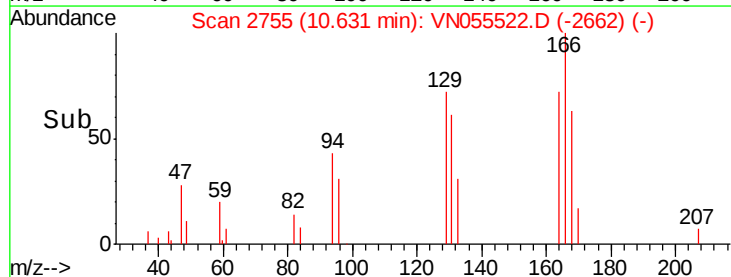
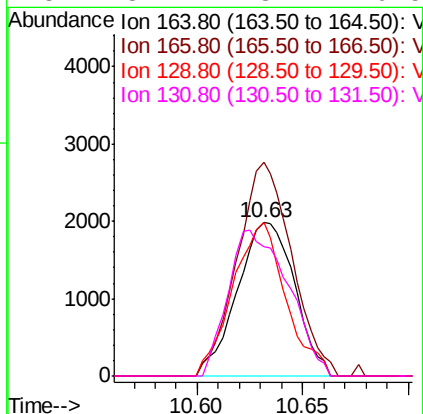
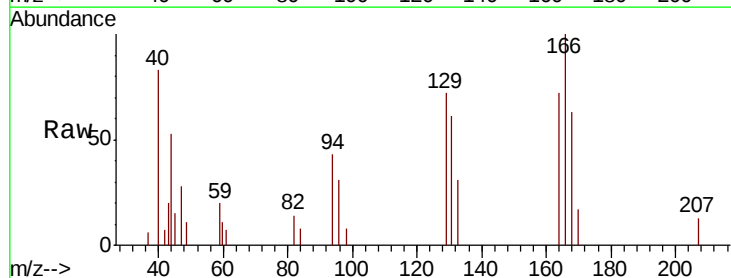
Instrument :
MSVOA_N
ClientSampleId :

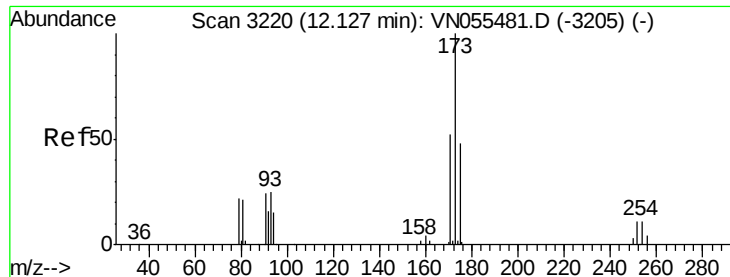
Tot Ion:117 Resp: 1227078
Ion Ratio Lower Upper
117 100
82 58.0 48.0 72.0
119 31.6 26.0 39.0



#64
Tetrachloroethene
Concen: 0.373 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055522.D
Acq: 10 May 2019 2:29

Tgt Ion:164 Resp: 3751
Ion Ratio Lower Upper
164 100
166 139.3 102.6 153.8
129 100.3 77.0 115.6
131 84.4 73.7 110.5

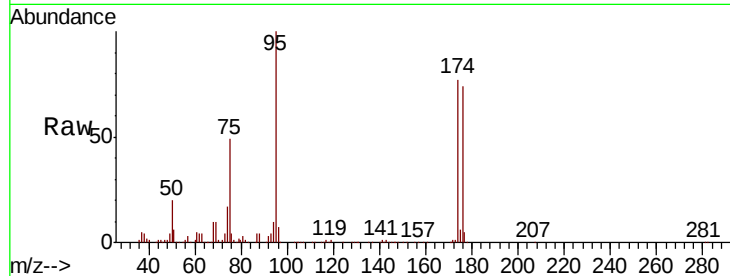




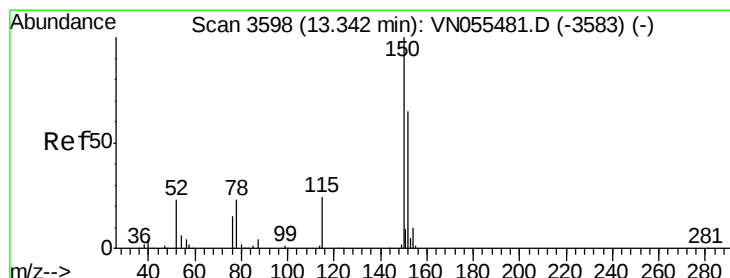
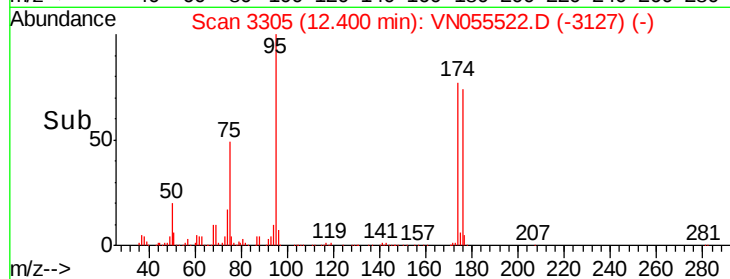
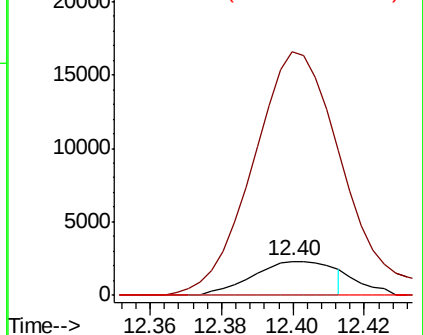
#71
Bromoform
Concen: 0.616 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055522.D
Acq: 10 May 2019 2:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 3614
Ion Ratio Lower Upper
173 100
175 678.3 24.1 72.4#
254 0.0 0.1 0.1#

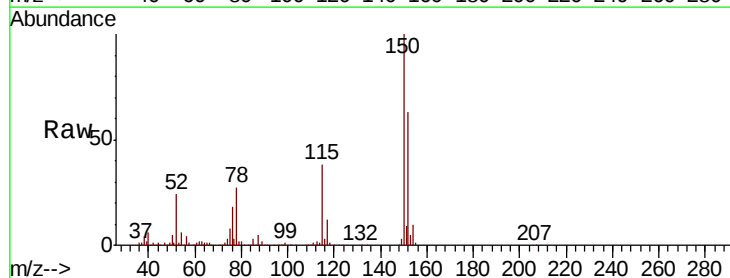


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

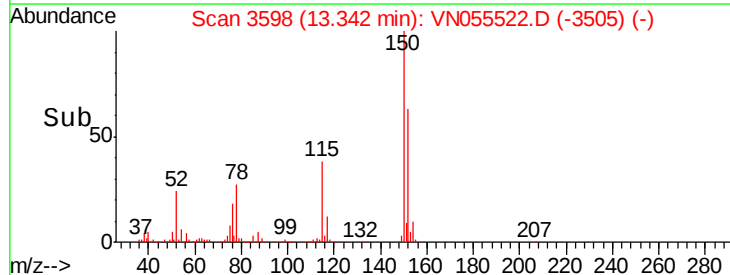
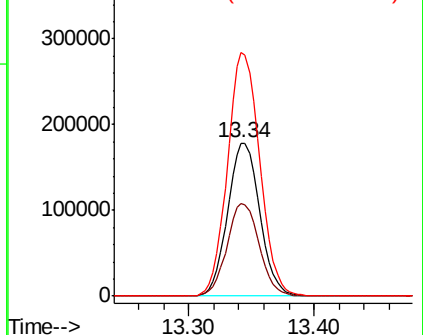


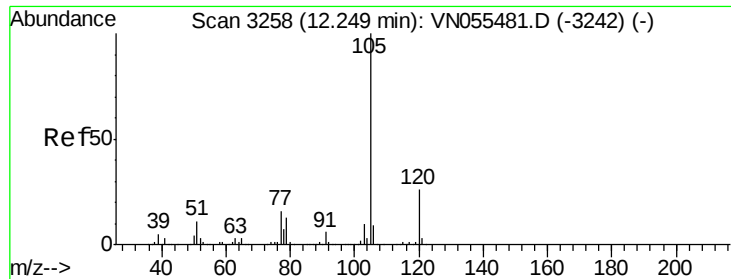
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055522.D
Acq: 10 May 2019 2:29

Tgt Ion:152 Resp: 317912
Ion Ratio Lower Upper
152 100
115 60.4 30.1 90.5
150 159.3 0.0 355.0



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

Instrument :

MSVOA_N

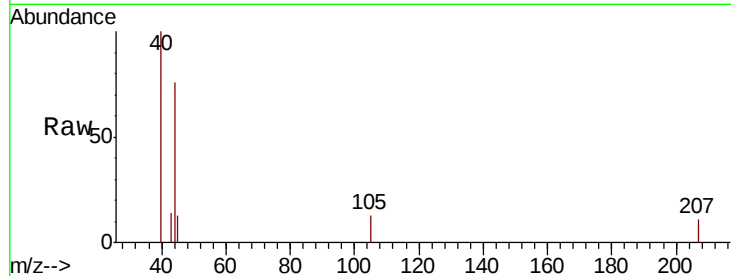
ClientSampled :

Tot Ion: 105 Resp: 251

Ion Ratio Lower Upper

105 100

120 0.0 13.0 39.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

250

200

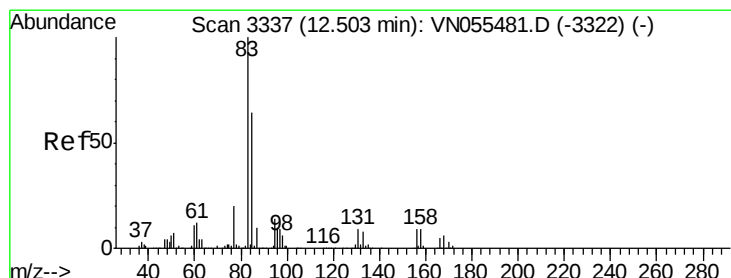
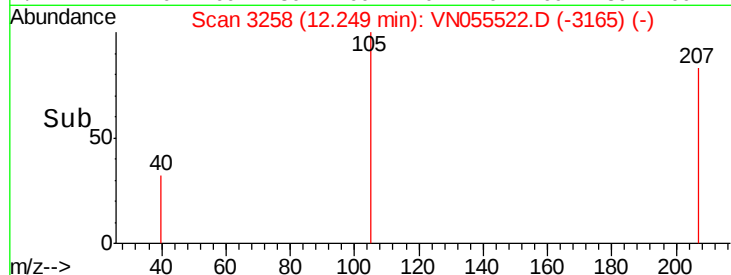
150

100

50

0

Time--> 12.22 12.24 12.26



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.43 min Scan# 3315

Delta R.T. -0.07 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

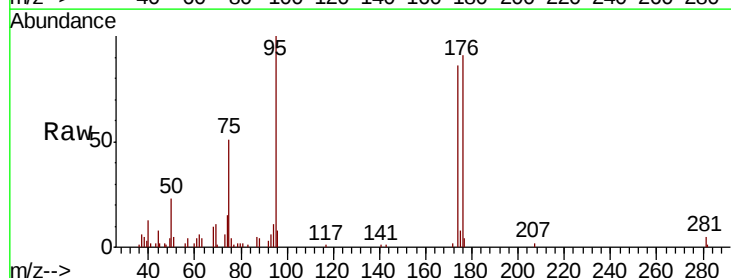
Tgt Ion: 83 Resp: 31

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

200

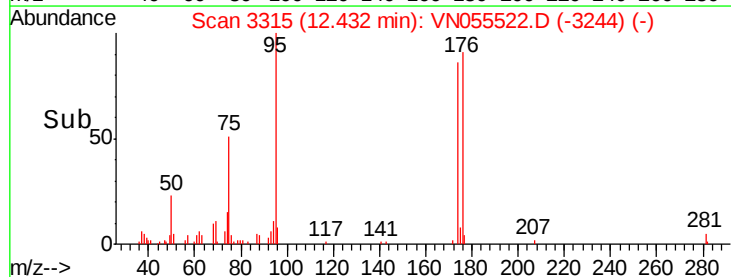
150

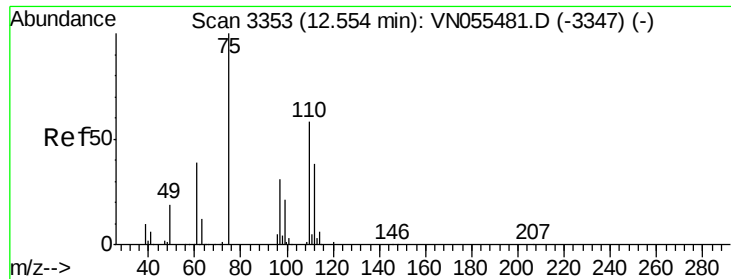
100

50

0

Time--> 12.43 12.43 12.44 12.44





#76

1,2,3-Trichloropropane

Concen: 28.792 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

Instrument :

MSVOA_N

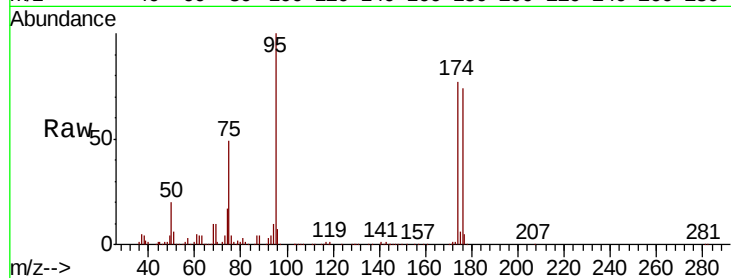
ClientSampleId :

Tot Ion: 75 Resp: 249181

Ion Ratio Lower Upper

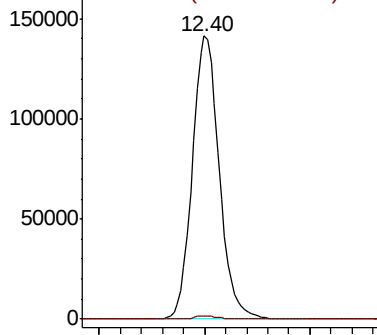
75 100

77 1.1 0.0 0.0#

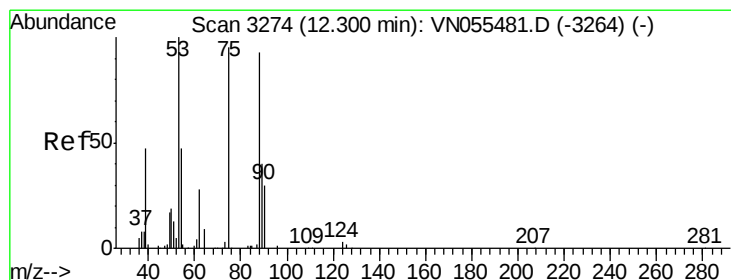
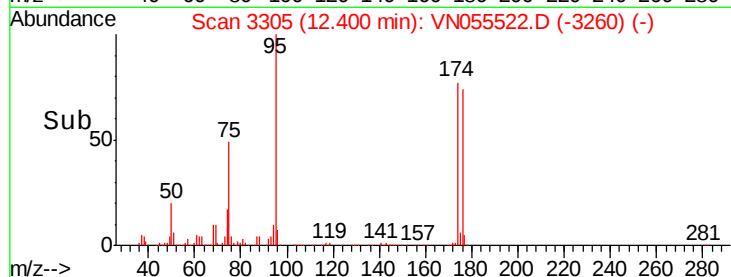


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 106.237 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055522.D

Acq: 10 May 2019 2:29

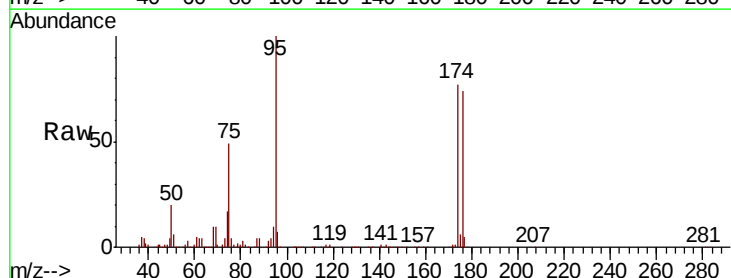
Tgt Ion: 75 Resp: 249181

Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

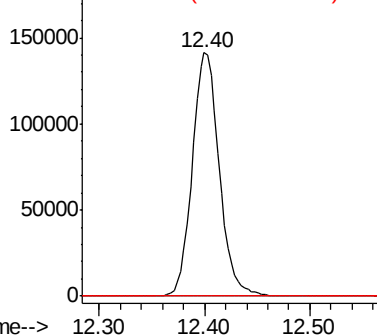
89 0.0 35.7 53.5#



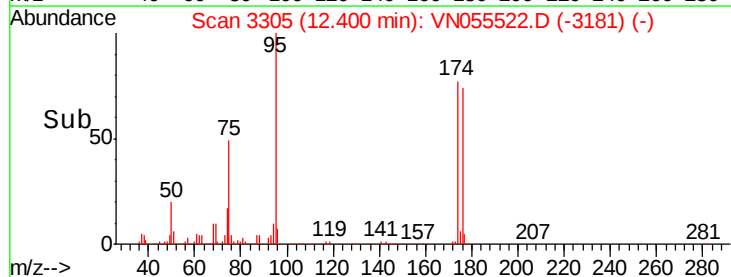
Abundance Ion 74.90 (74.60 to 75.60): VN0

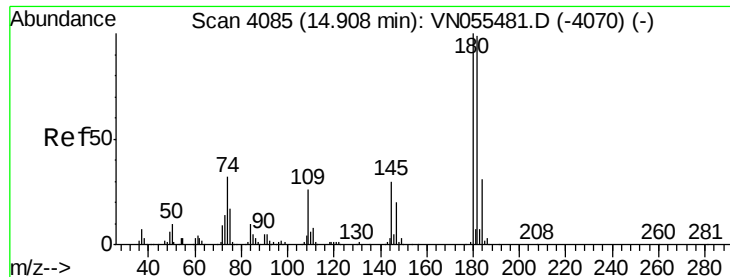
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50

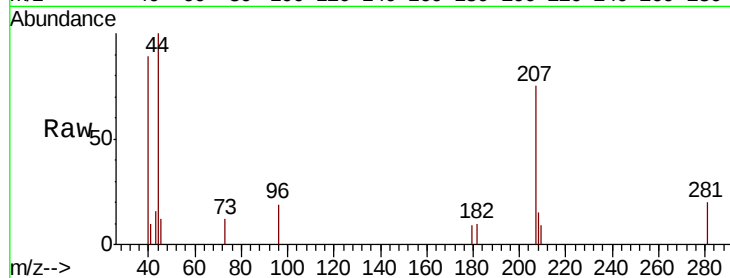




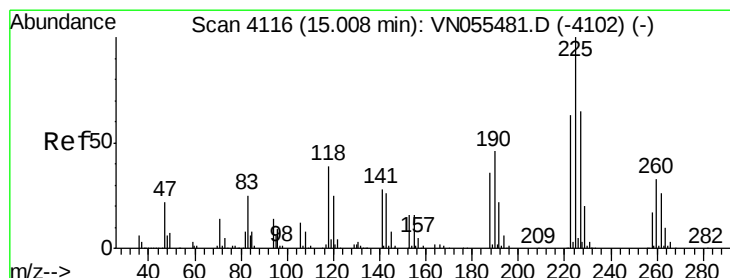
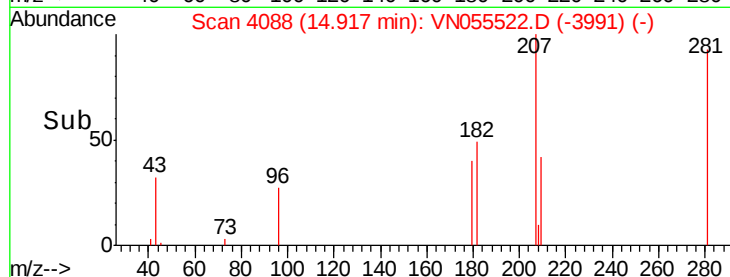
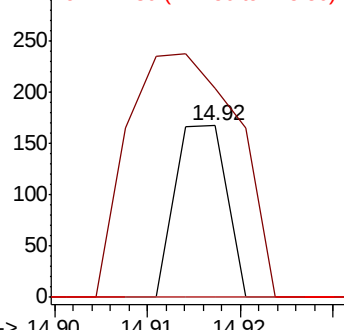
#93
 1,2,4-Trichlorobenzene
 Concen: 3.218 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN055522.D
 Acq: 10 May 2019 2:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 65
 Ion Ratio Lower Upper
 180 100
 182 300.0 48.7 146.1#
 145 0.0 15.3 45.9#

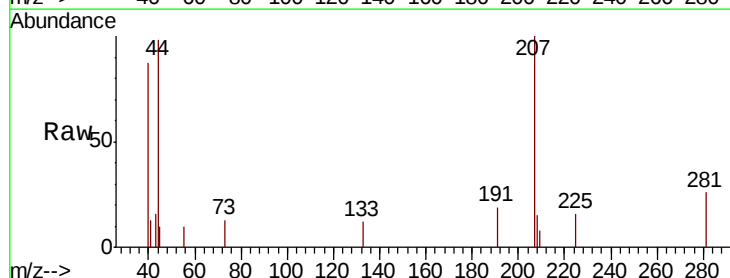


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

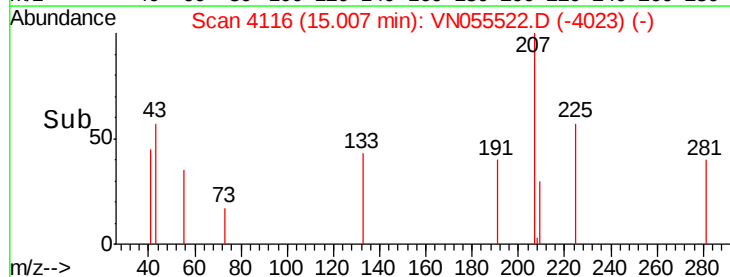
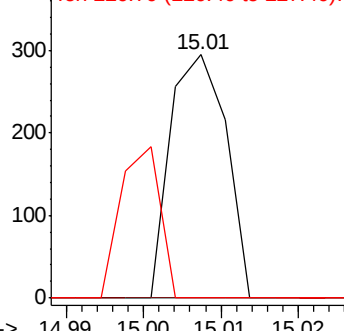


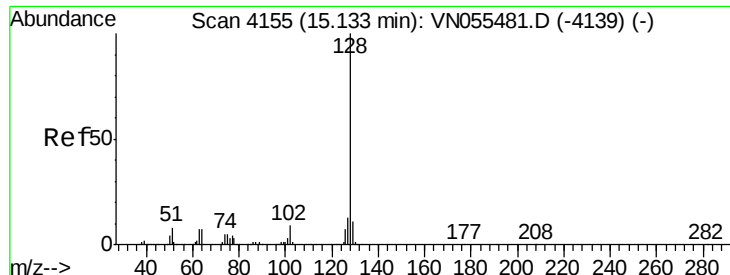
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055522.D
 Acq: 10 May 2019 2:29

Tgt Ion:225 Resp: 148
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.4 94.3#
 227 43.9 32.0 96.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.968 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

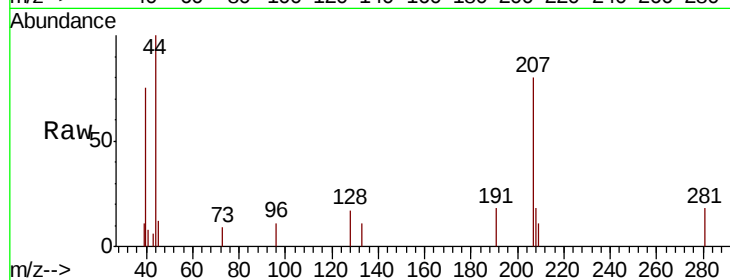
Lab File: VN055522.D

Acq: 10 May 2019 2:29

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:	128	Resp:	438
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.8	13.2#

