

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055636.D
 Acq On : 18 May 2019 2:35
 Operator : JC/SP
 Sample : VN0517WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 04:31:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	414033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	584925	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	488343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	190109	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	191204	42.13	ug/l	0.00
Spiked Amount			Recovery	=	84.26%	
35) Dibromofluoromethane	7.59	113	176996	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	10.09	98	676677	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
62) 4-Bromofluorobenzene	12.40	95	211810	43.66	ug/l	0.00
Spiked Amount			Recovery	=	87.32%	

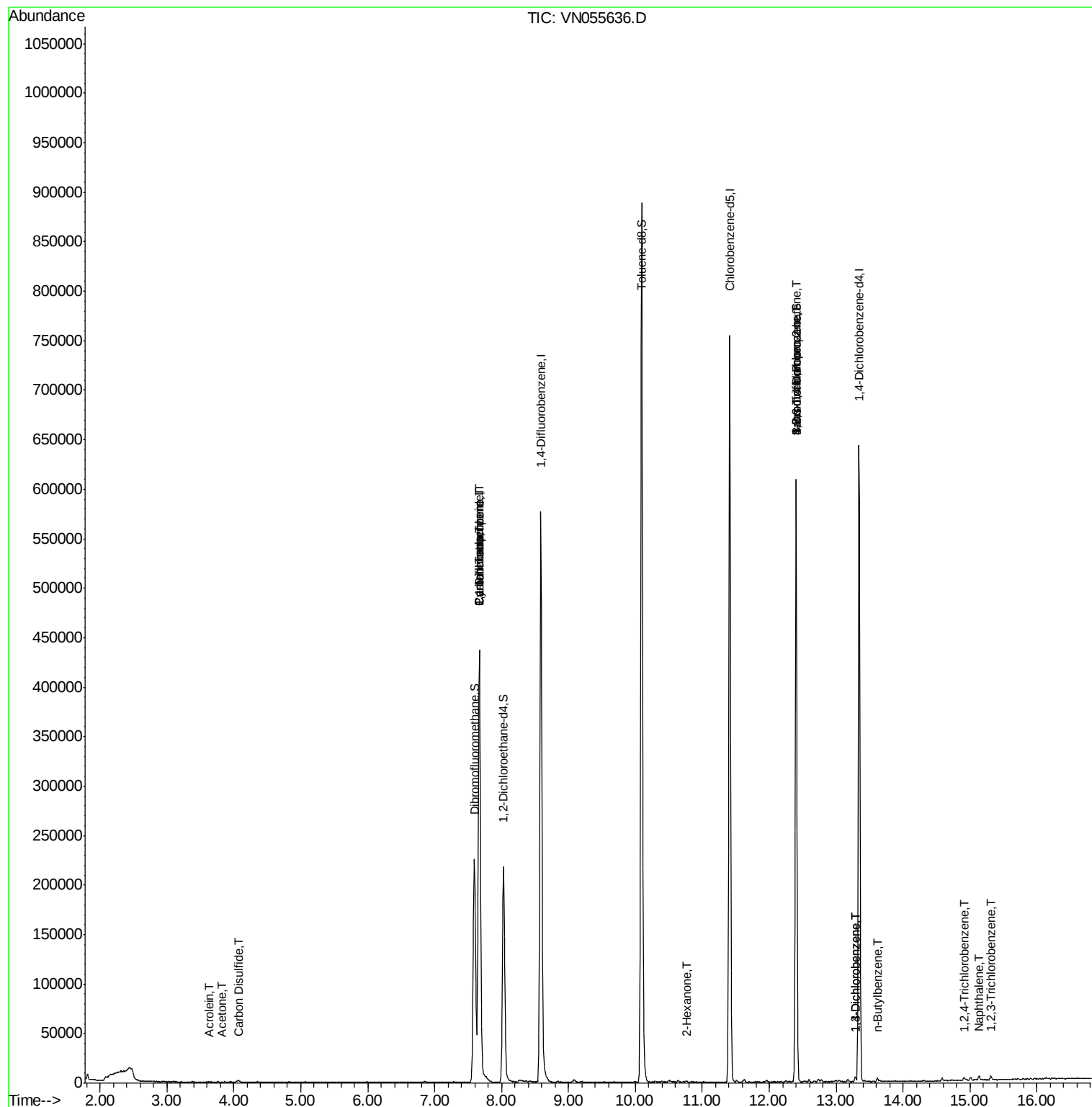
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	242	1.920	ug/l #	59
16) Acetone	3.83	43	1242	0.671	ug/l #	42
17) Carbon Disulfide	4.07	76	3866	0.368	ug/l #	94
31) Cyclohexane	7.67	56	6593	0.979	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25000	4.794	ug/l #	48
38) Carbon Tetrachloride	7.67	117	34714	6.229	ug/l #	15
59) 2-Hexanone	10.77	43	1002	0.296	ug/l	88
71) Bromoform	12.40	173	1185	0.352	ug/l #	1
73) Isopropylbenzene	12.25	105	1436	Below Cal		86
76) 1,2,3-Trichloropropane	12.40	75	98336	25.349	ug/l #	100
79) 2-Chlorotoluene	12.68	91	1190	Below Cal		75
80) 1,3,5-Trimethylbenzene	12.73	105	1379	Below Cal		93
81) trans-1,4-Dichloro-2-buten	12.40	75	98336	65.163	ug/l #	17
83) tert-Butylbenzene	13.00	119	860	Below Cal	#	75
84) 1,2,4-Trimethylbenzene	13.04	105	1479	Below Cal		89
85) sec-Butylbenzene	13.17	105	2071	Below Cal		93
86) p-Isopropyltoluene	13.29	119	2215	Below Cal		99
87) 1,3-Dichlorobenzene	13.29	146	1404	0.217	ug/l	86
88) 1,4-Dichlorobenzene	13.29	146	1404	0.228	ug/l	86
89) n-Butylbenzene	13.62	91	2958	0.284	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	1481	0.452	ug/l	93
94) Hexachlorobutadiene	15.01	225	842	Below Cal		93
95) Naphthalene	15.13	128	4870	2.239	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	1590	0.464	ug/l	90

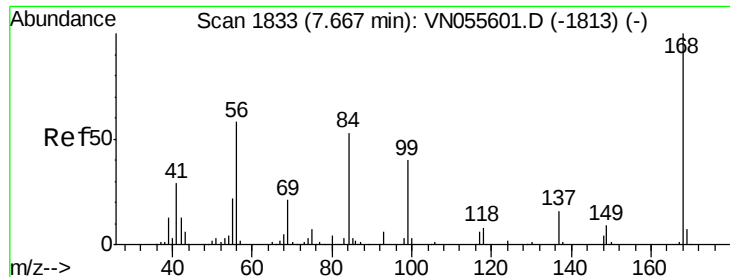
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN055636.D
Acq On : 18 May 2019 2:35
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

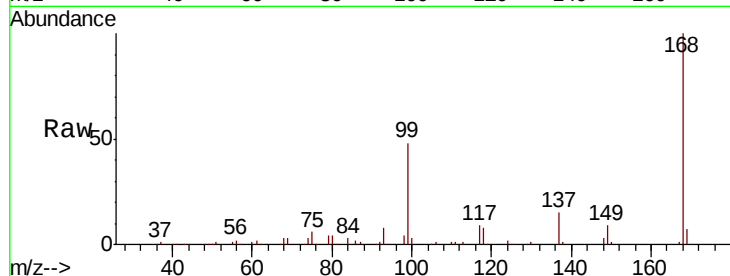
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 414033

Ion Ratio Lower Upper

168 100

99 47.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055636.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055636.D (-1740) (-)

7.67

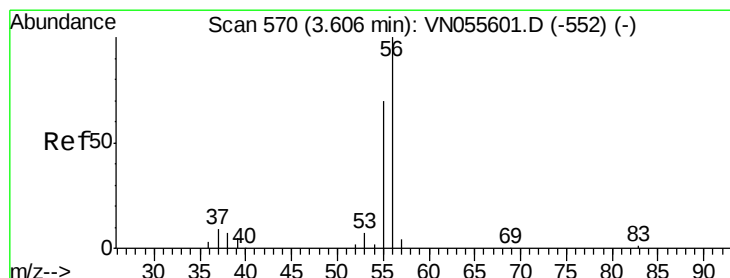
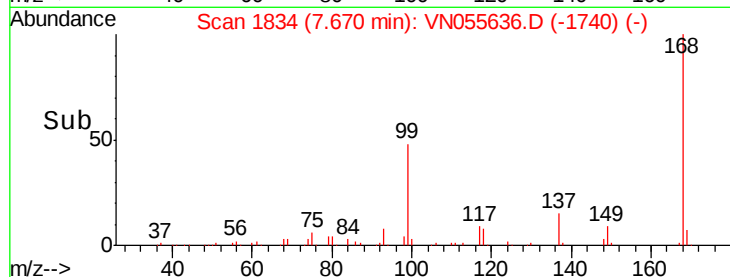
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 1.920 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN055636.D

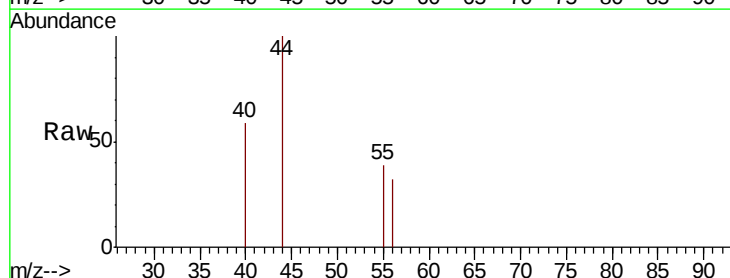
Acq: 18 May 2019 2:35

Tgt Ion: 56 Resp: 242

Ion Ratio Lower Upper

56 100

55 104.1 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN055636.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN055636.D (-477) (-)

3.62

300

250

200

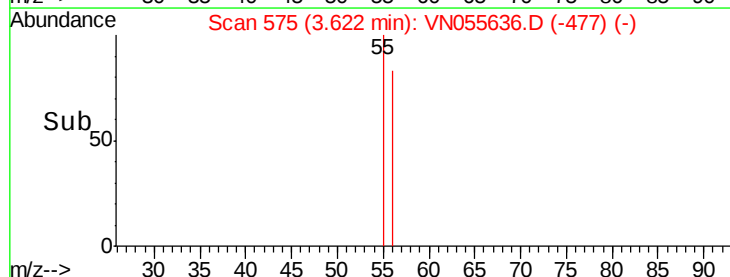
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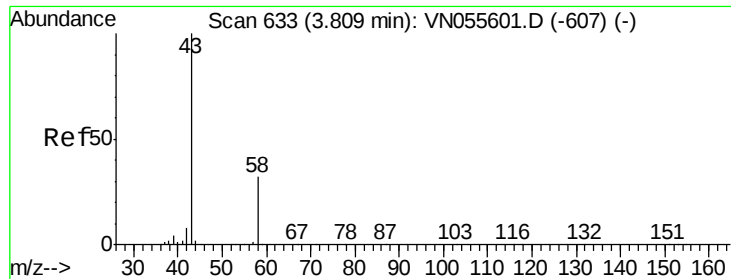
100

50

0

Time-->





#16

Acetone

Concen: 0.671 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :

MSVOA_N

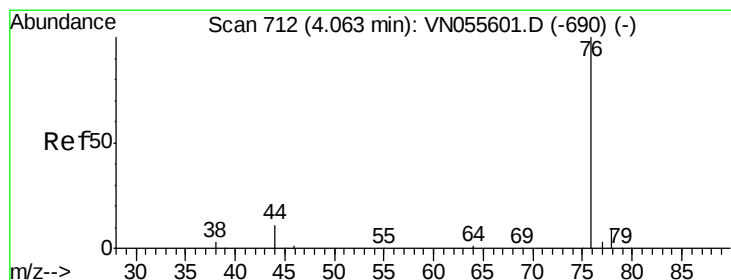
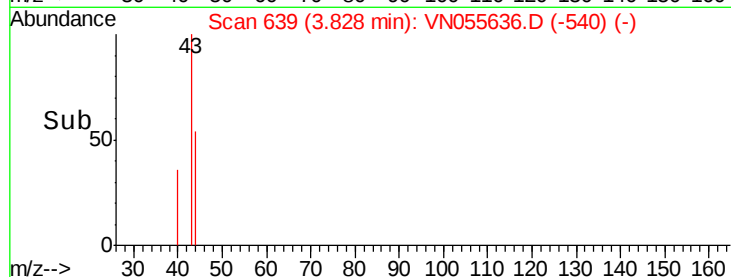
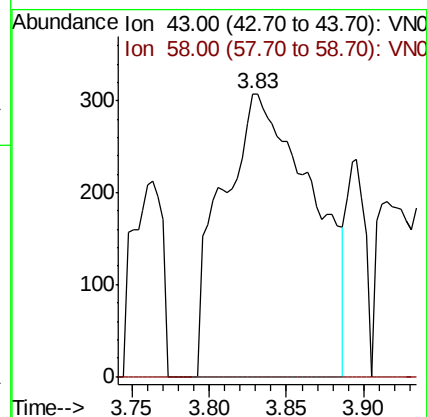
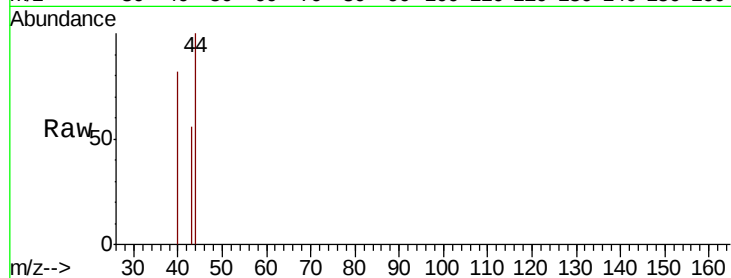
ClientSampled :

Tot Ion: 43 Resp: 1242

Ion Ratio Lower Upper

43 100

58 0.0 26.0 39.0#



#17

Carbon Disulfide

Concen: 0.368 ug/l

RT: 4.07 min Scan# 714

Delta R.T. 0.01 min

Lab File: VN055636.D

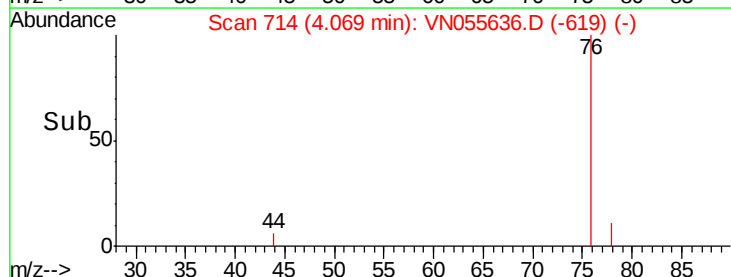
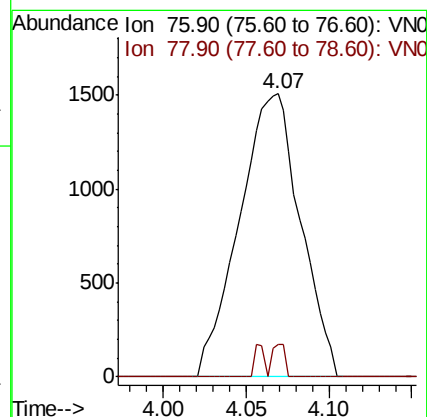
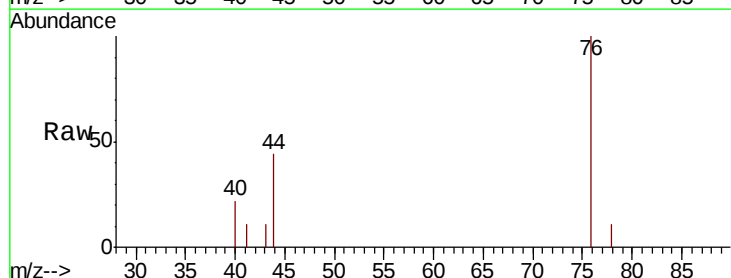
Acq: 18 May 2019 2:35

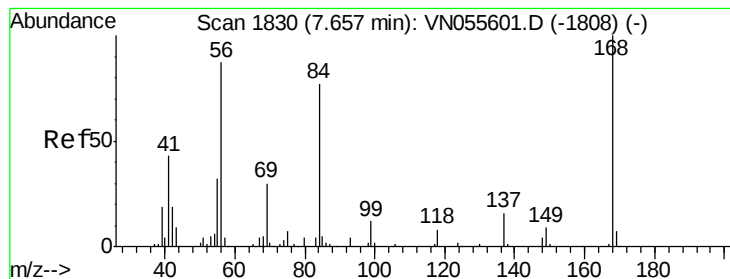
Tgt Ion: 76 Resp: 3866

Ion Ratio Lower Upper

76 100

78 11.4 7.3 10.9#





#31

Cyclohexane

Concen: 0.979 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :
MSVOA_N
ClientSampled :

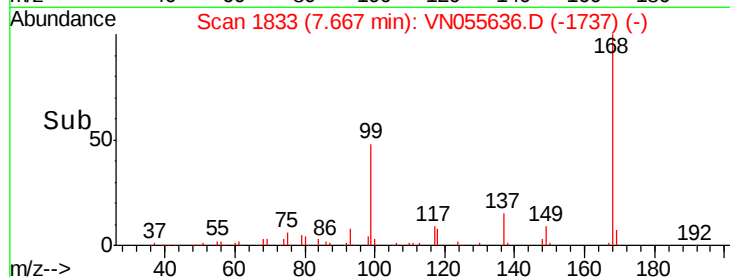
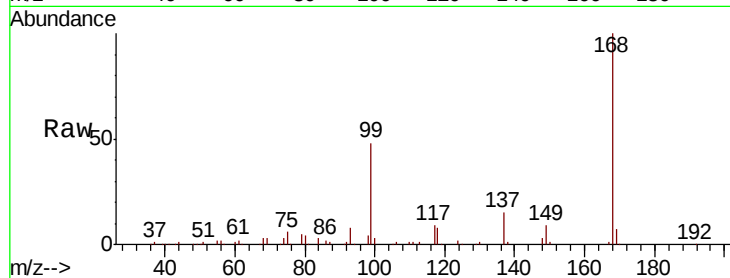
Tot Ion: 56 Resp: 6593

Ion Ratio Lower Upper

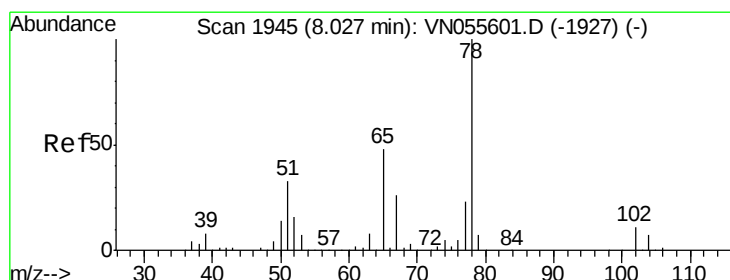
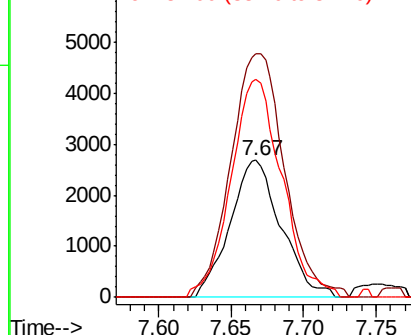
56 100

69 177.8 27.2 40.8#

84 159.6 71.3 106.9#



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: 42.128 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055636.D

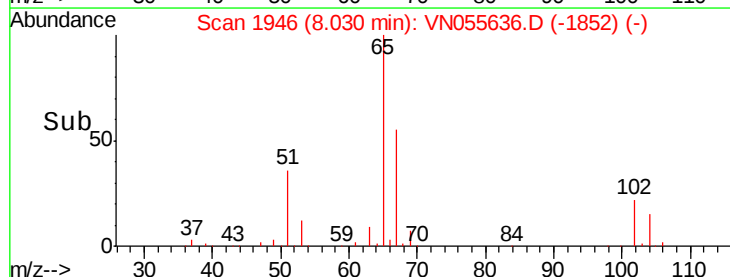
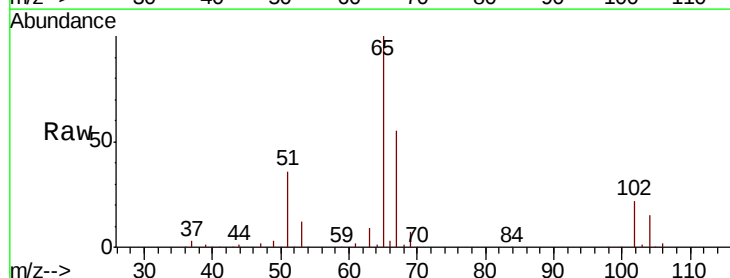
Acq: 18 May 2019 2:35

Tgt Ion: 65 Resp: 191204

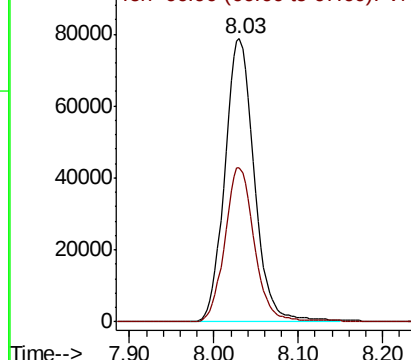
Ion Ratio Lower Upper

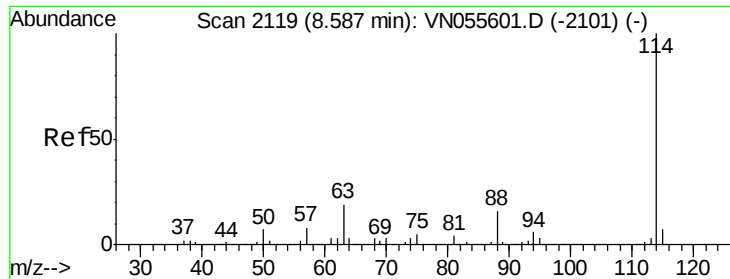
65 100

67 54.3 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

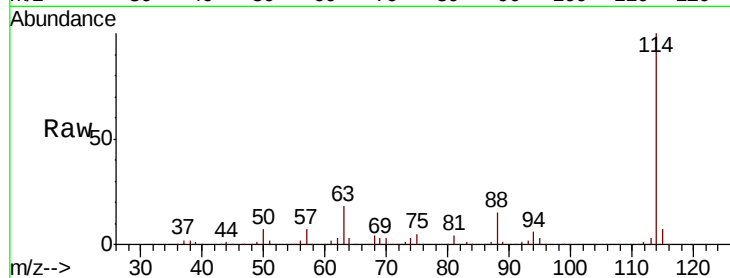




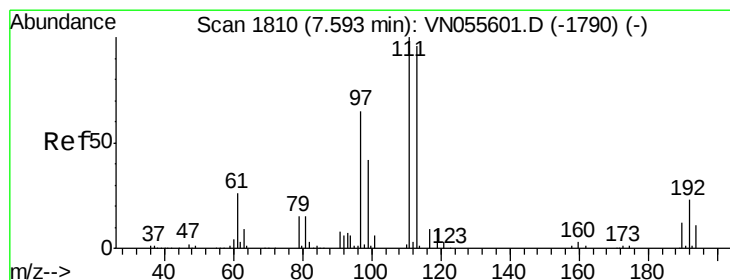
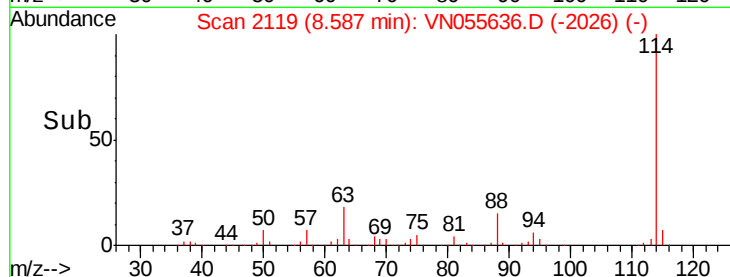
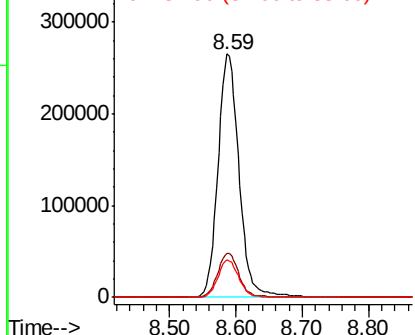
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055636.D
 Acq: 18 May 2019 2:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	38.2
88	15.5	0.0	31.0

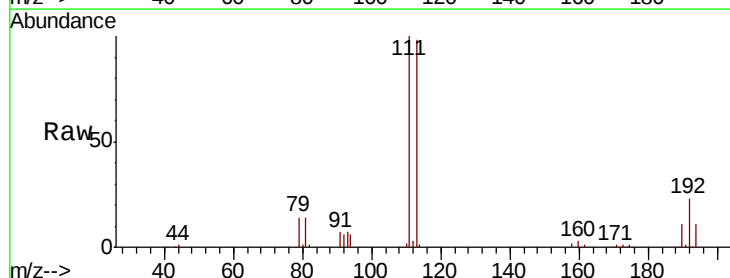


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

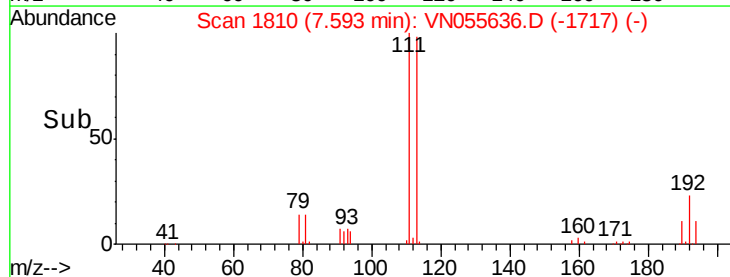
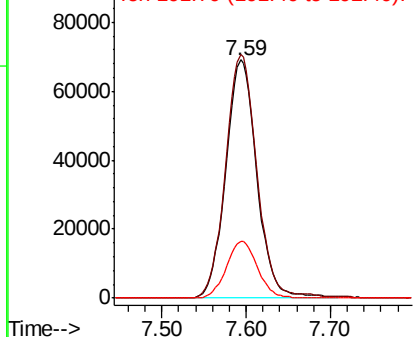


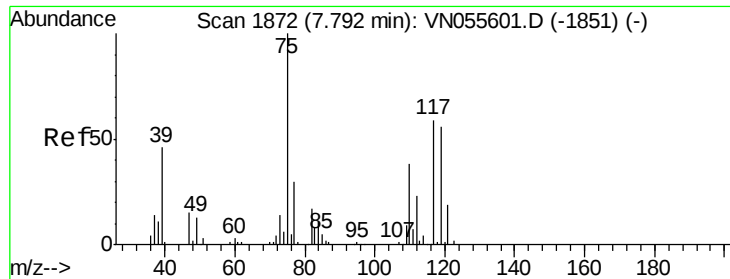
#35
 Dibromofluoromethane
 Concen: 47.635 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055636.D
 Acq: 18 May 2019 2:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.5	123.7
192	23.8	18.7	28.1



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: 4.794 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :
MSVOA_N
ClientSampled :

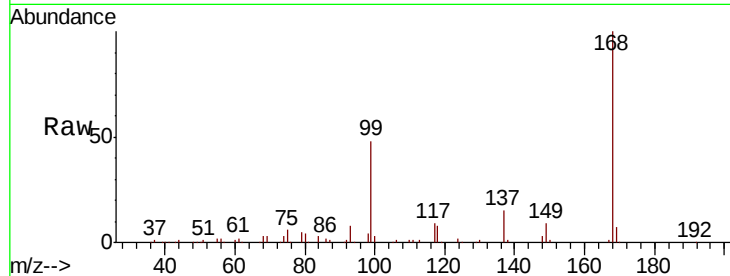
Tot Ion: 75 Resp: 25000

Ion Ratio Lower Upper

75 100

110 8.7 18.6 55.6#

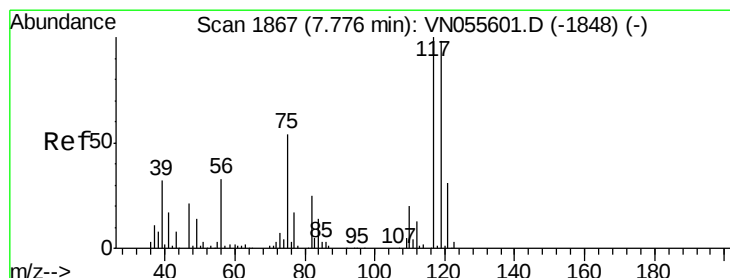
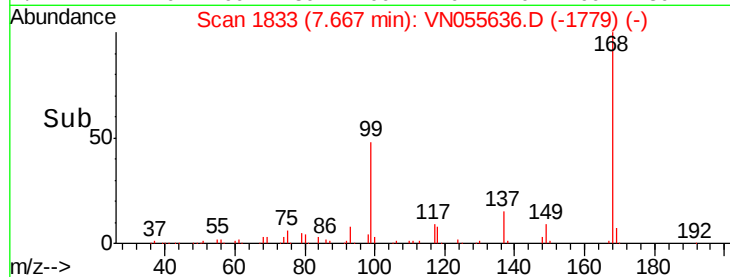
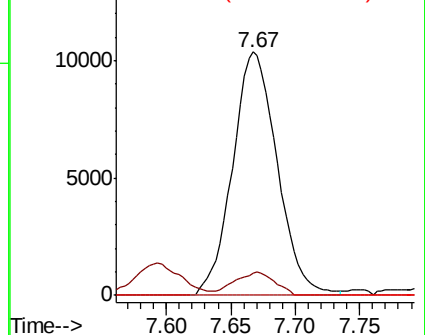
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055636.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN055636.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN055636.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 6.229 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

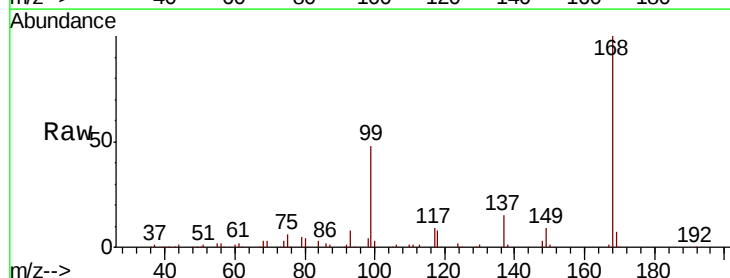
Tgt Ion: 117 Resp: 34714

Ion Ratio Lower Upper

117 100

119 4.3 77.8 116.8#

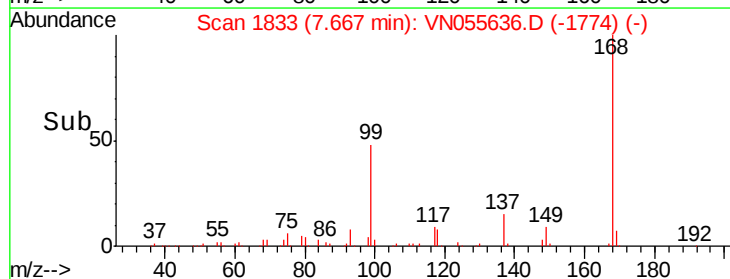
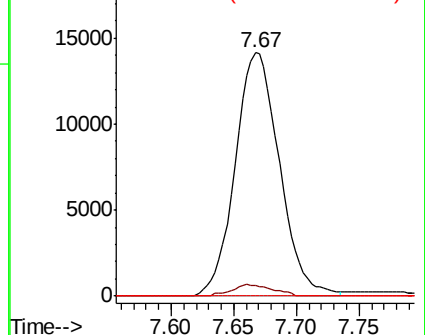
121 0.0 24.6 37.0#

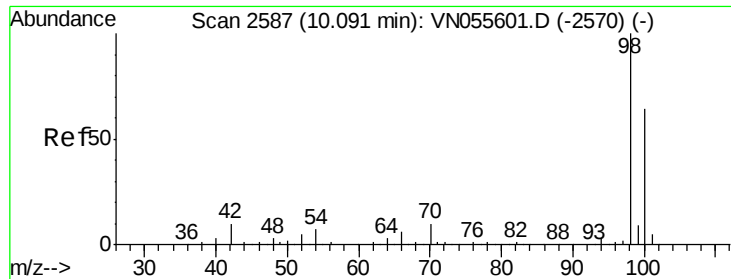


Abundance Ion 116.80 (116.50 to 117.50): VN055636.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN055636.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN055636.D (-1774) (-)





#50

Toluene-d8

Concen: 48.164 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :

MSVOA_N

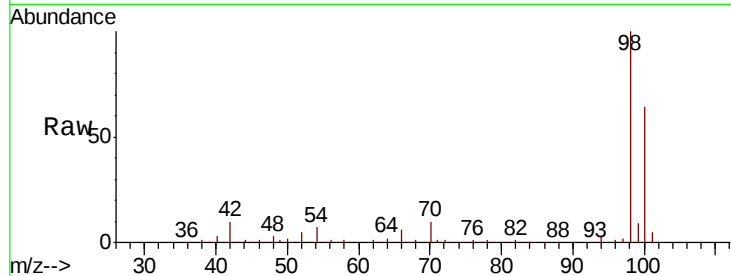
ClientSampleId :

Tot Ion: 98 Resp: 676677

Ion Ratio Lower Upper

98 100

100 64.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

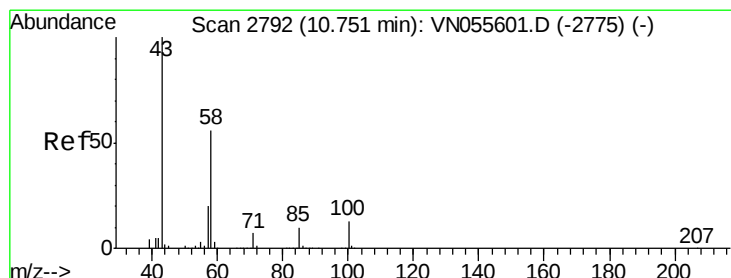
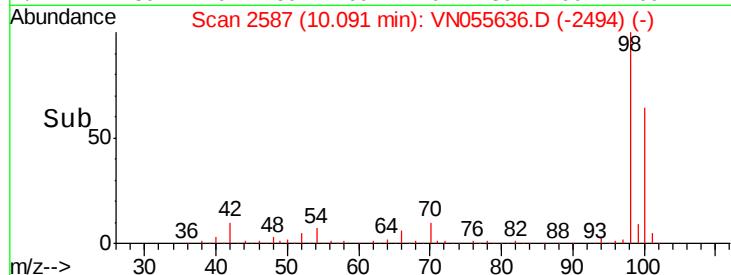
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.296 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN055636.D

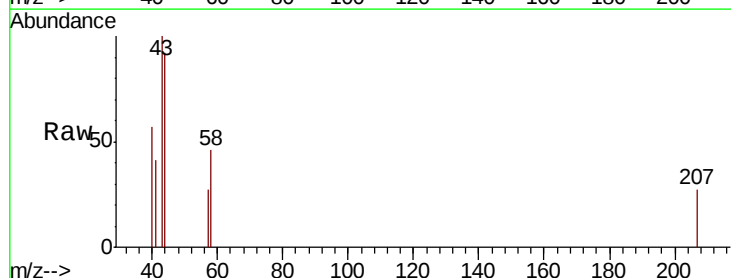
Acq: 18 May 2019 2:35

Tgt Ion: 43 Resp: 1002

Ion Ratio Lower Upper

43 100

58 47.3 28.1 84.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.77

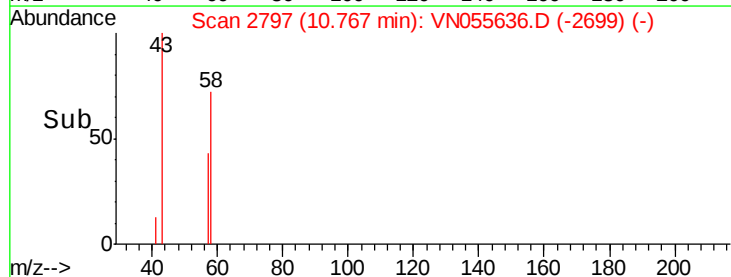
600

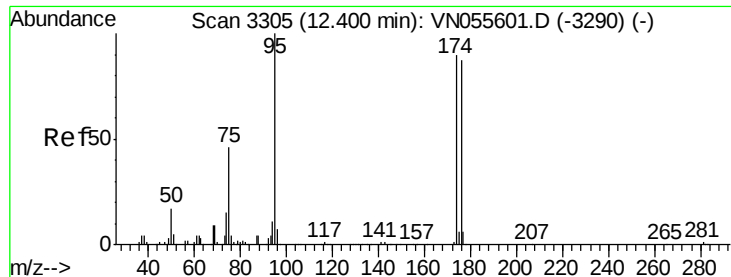
400

200

0

Time-->

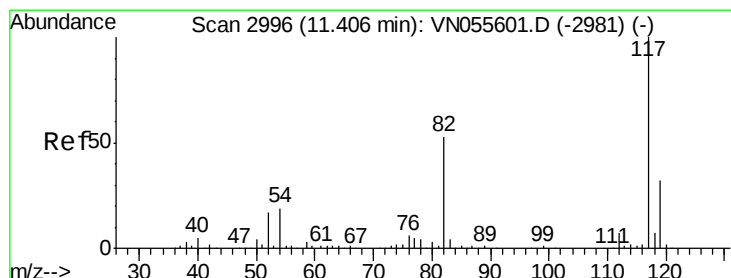
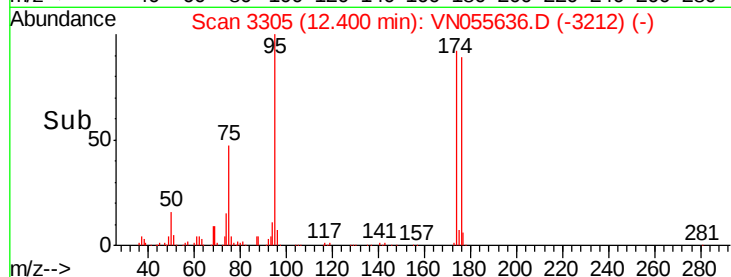
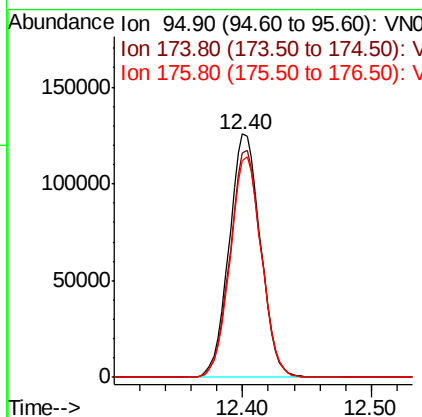
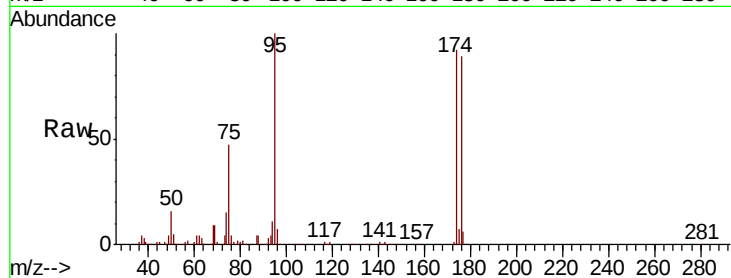




#62
4-Bromofluorobenzene
Concen: 43.658 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055636.D
Acq: 18 May 2019 2:35

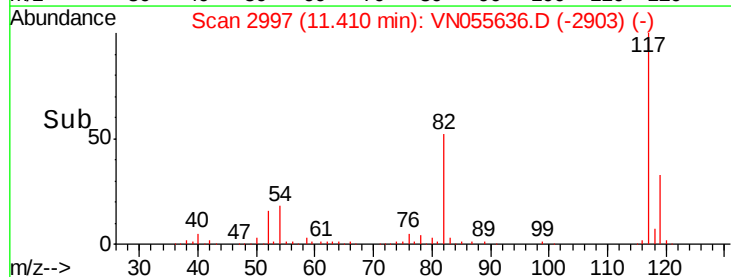
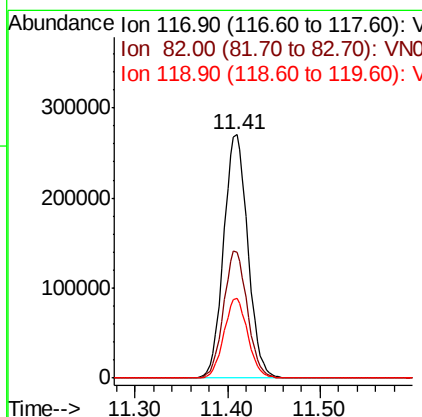
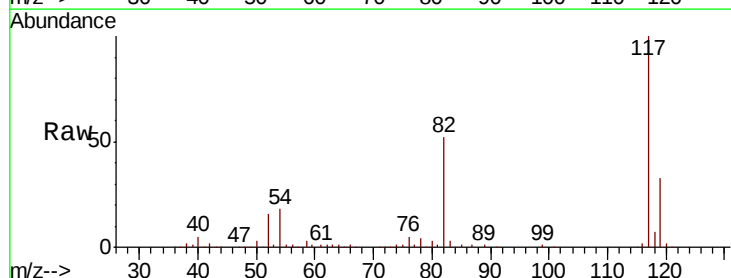
Instrument :
MSVOA_N
ClientSampled :

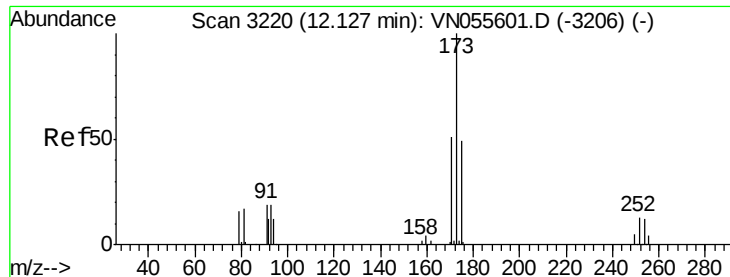
Tot Ion	95	Resp	211810
Ion Ratio	Lower	Upper	
95	100		
174	92.8	0.0	180.6
176	90.6	0.0	177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055636.D
Acq: 18 May 2019 2:35

Tgt Ion	117	Resp	488343
Ion Ratio	Lower	Upper	
117	100		
82	51.9	42.3	63.5
119	32.6	25.4	38.2

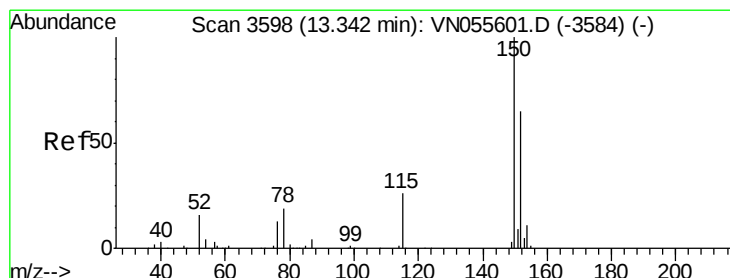
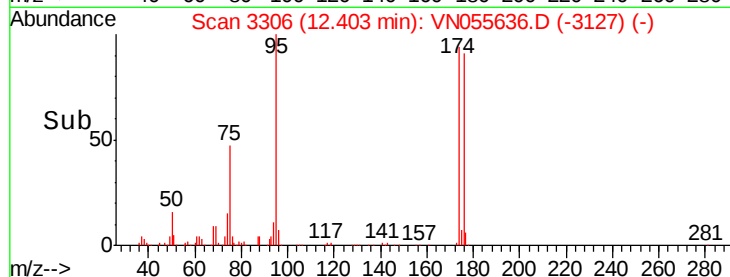
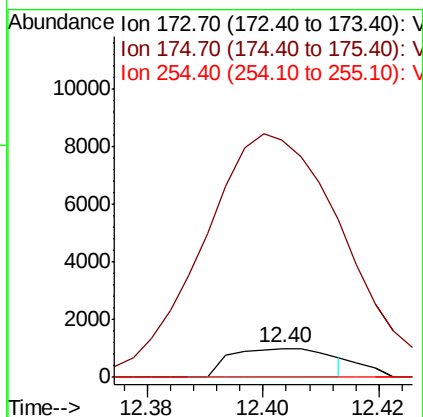
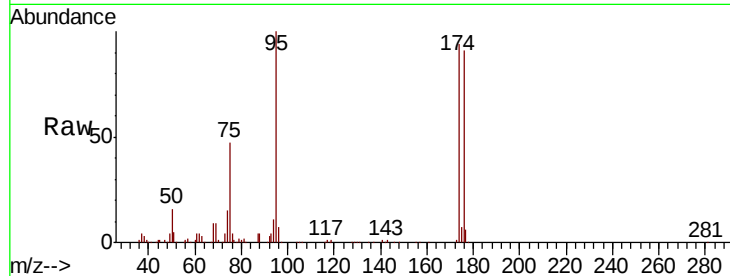




#71
Bromoform
Concen: 0.352 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055636.D
Acq: 18 May 2019 2:35

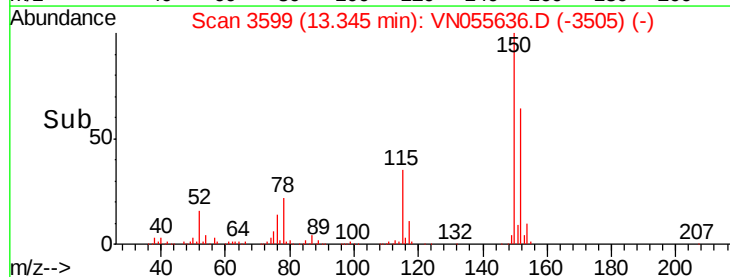
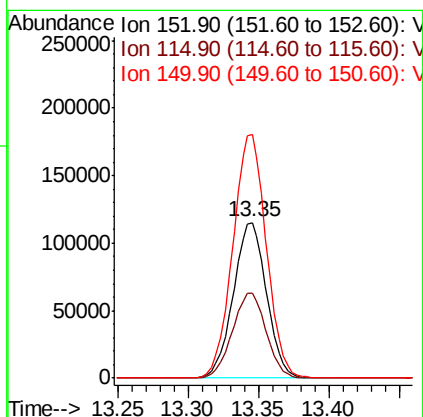
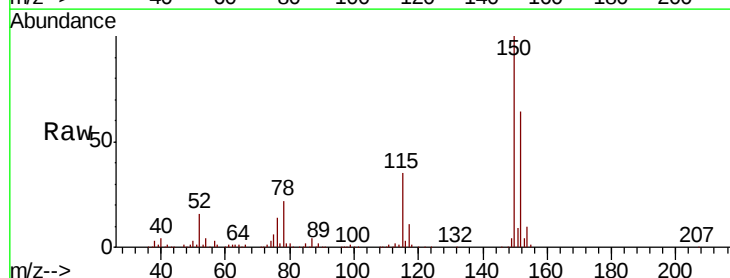
Instrument :
MSVOA_N
ClientSampled :

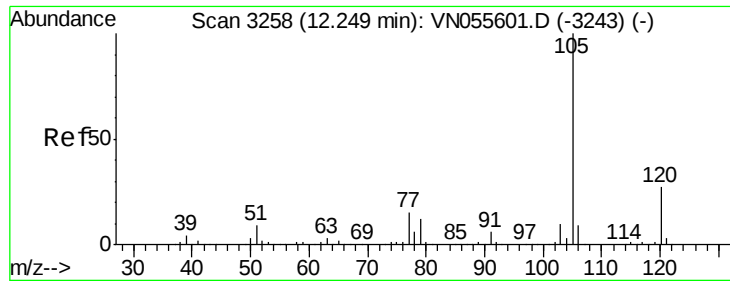
Tot Ion:173 Resp: 1185
Ion Ratio Lower Upper
173 100
175 1049.2 24.3 72.9#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN055636.D
Acq: 18 May 2019 2:35

Tgt Ion:152 Resp: 190109
Ion Ratio Lower Upper
152 100
115 55.4 28.1 84.2
150 157.6 0.0 348.0





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :

MSVOA_N

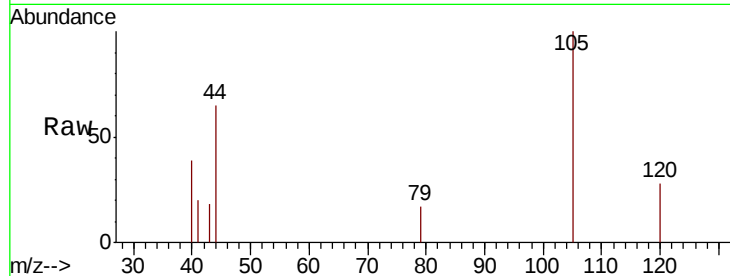
ClientSampleId :

Tot Ion:105 Resp: 1436

Ion Ratio Lower Upper

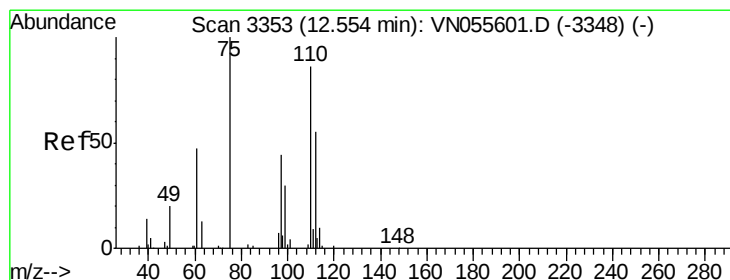
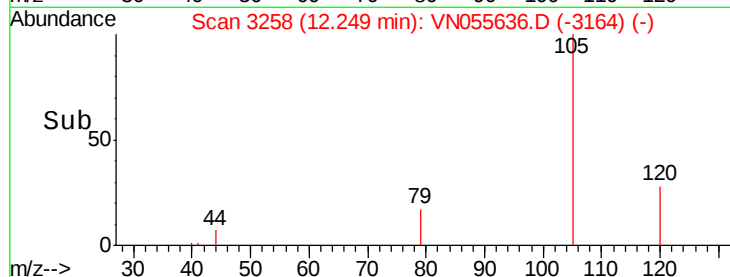
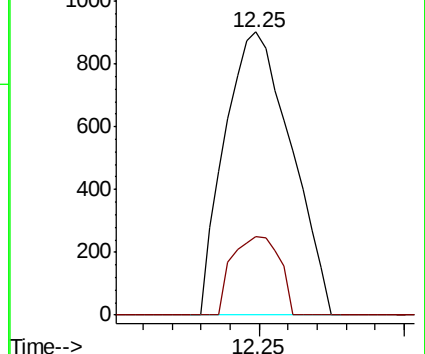
105 100

120 19.6 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 25.349 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055636.D

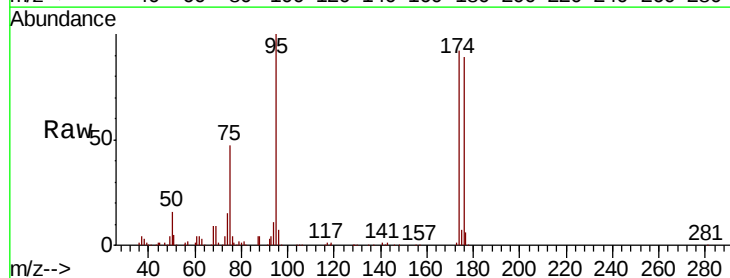
Acq: 18 May 2019 2:35

Tgt Ion: 75 Resp: 98336

Ion Ratio Lower Upper

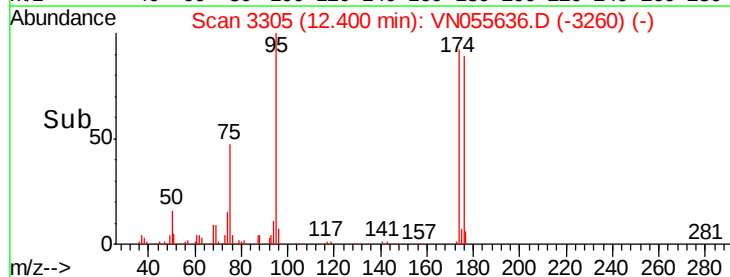
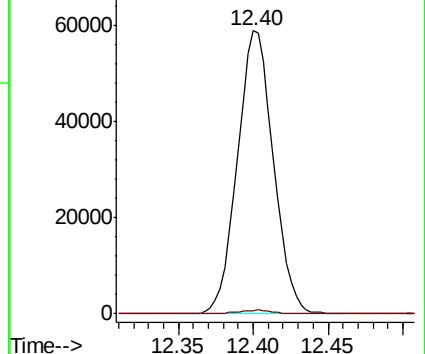
75 100

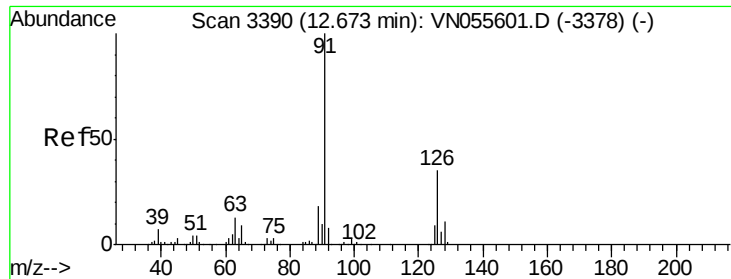
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :

MSVOA_N

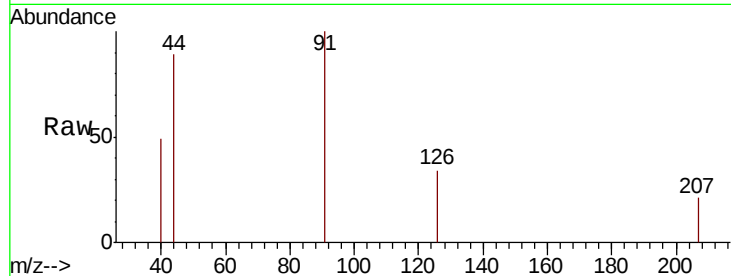
ClientSampled :

Tot Ion: 91 Resp: 1190

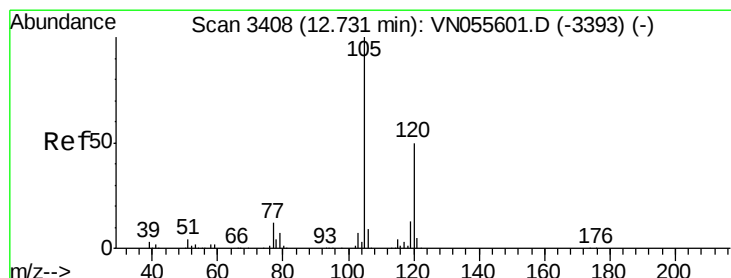
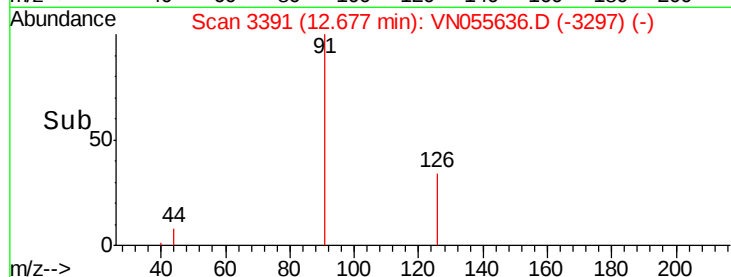
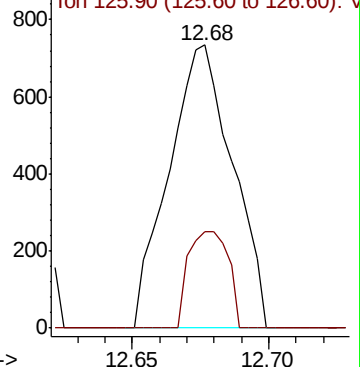
Ion Ratio Lower Upper

91 100

126 21.1 17.8 53.4



Abundance Ion 91.00 (90.70 to 91.70): VN055636.D (-3391) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055636.D

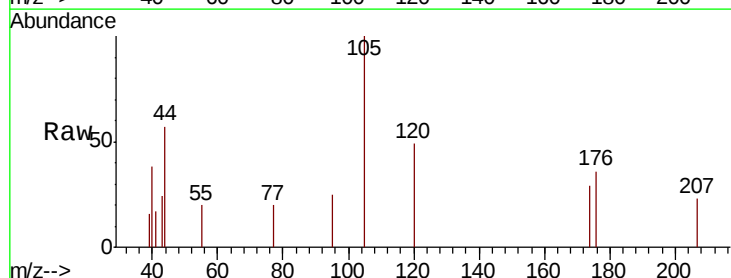
Acq: 18 May 2019 2:35

Tgt Ion: 105 Resp: 1379

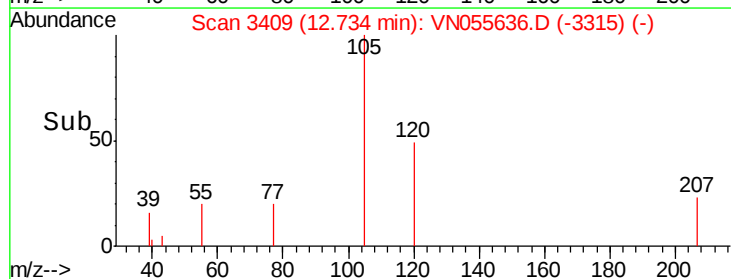
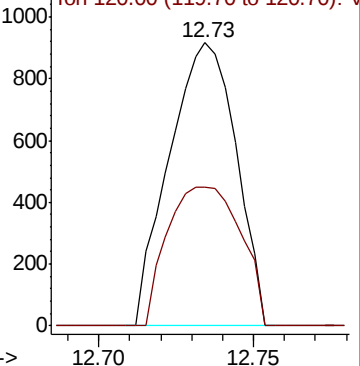
Ion Ratio Lower Upper

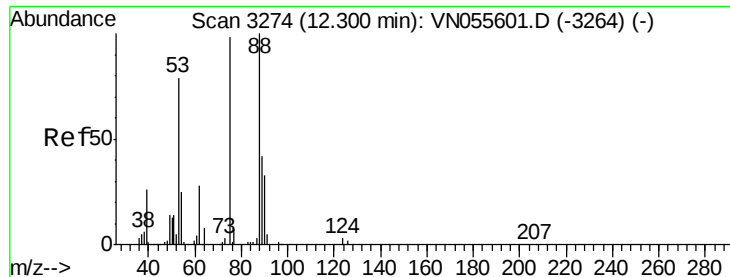
105 100

120 53.9 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN055636.D (-3409) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 65.163 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :

MSVOA_N

ClientSampleId :

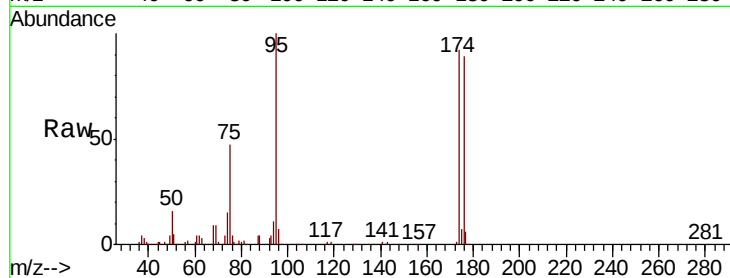
Tot Ion: 75 Resp: 98336

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

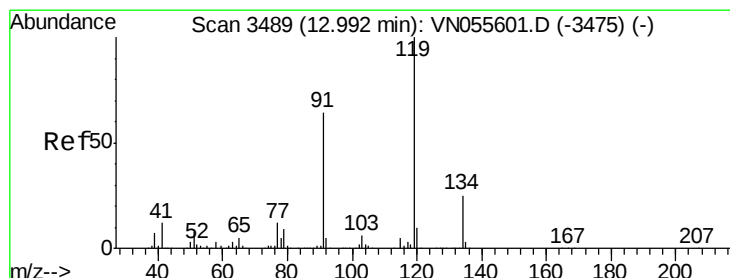
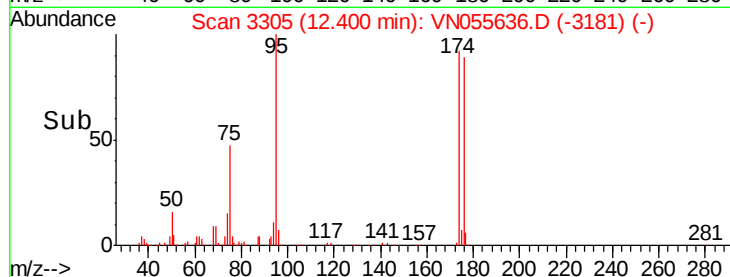
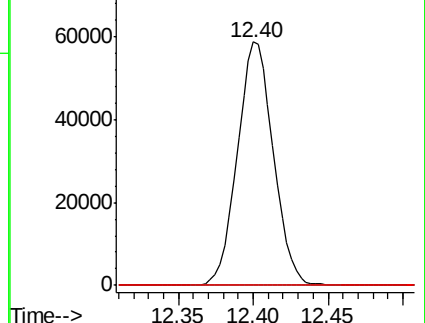
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055636.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055636.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055636.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.00 min Scan# 3491

Delta R.T. 0.01 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

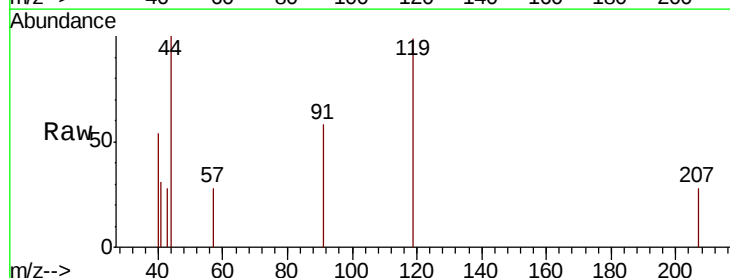
Tgt Ion: 119 Resp: 860

Ion Ratio Lower Upper

119 100

91 73.7 31.3 93.8

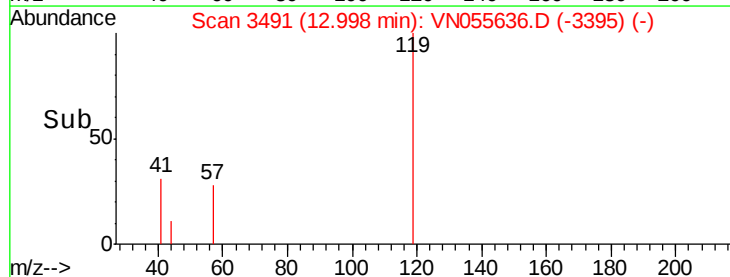
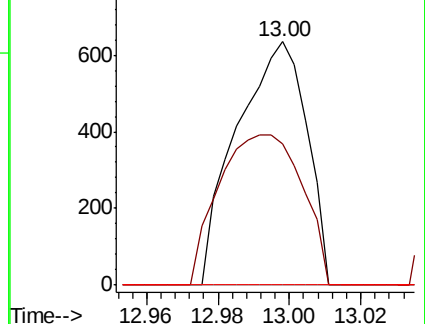
134 0.0 13.2 39.6#

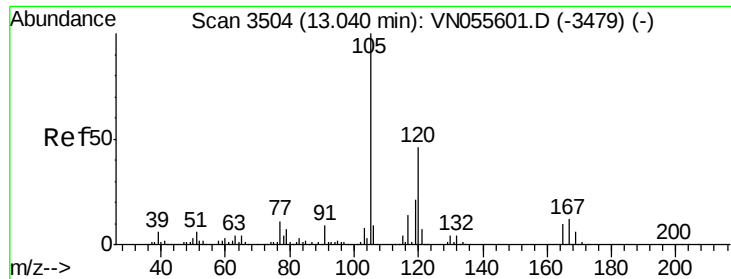


Abundance Ion 119.00 (118.70 to 119.70): VN055636.D (-3489) (-)

Ion 91.00 (90.70 to 91.70): VN055636.D (-3489) (-)

Ion 134.00 (133.70 to 134.70): VN055636.D (-3489) (-)

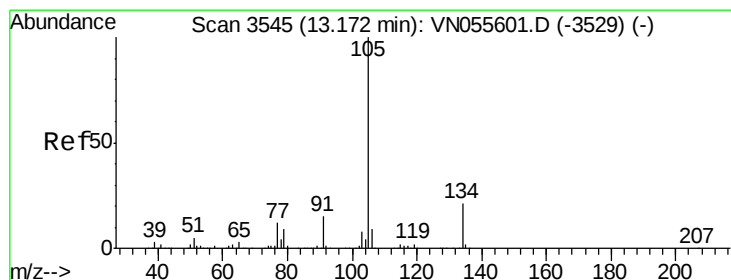
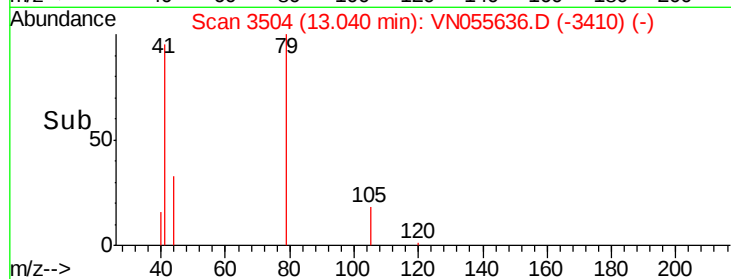
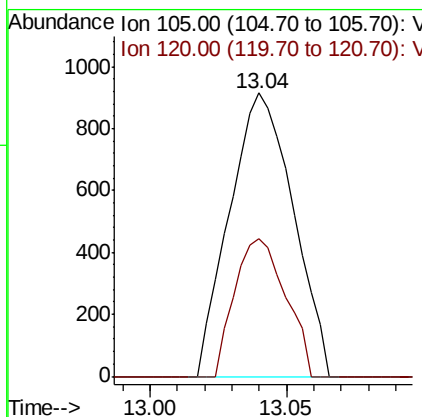
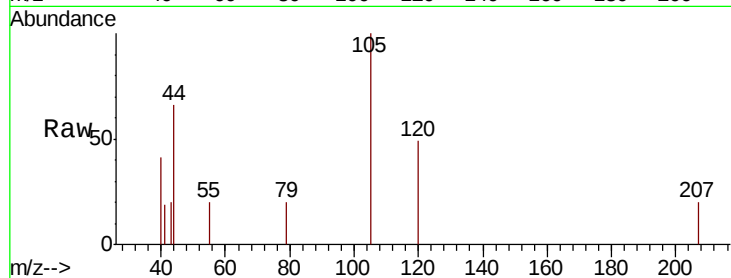




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055636.D
 Acq: 18 May 2019 2:35

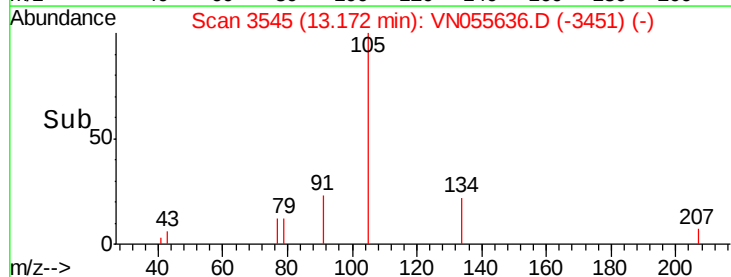
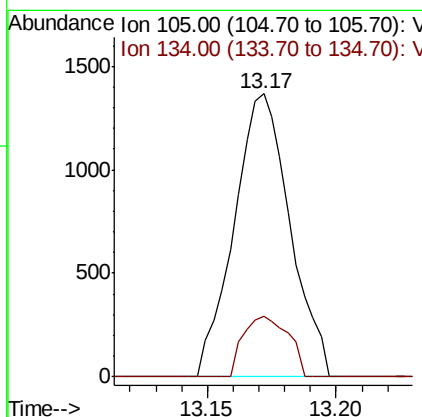
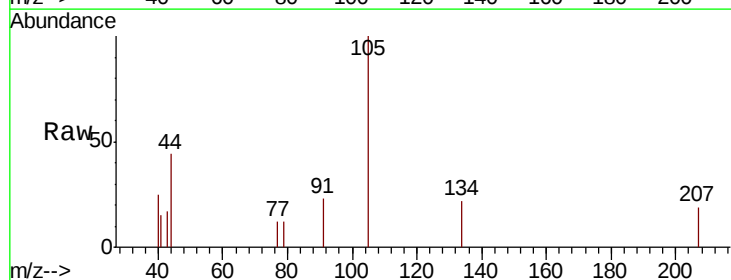
Instrument :
 MSVOA_N
 ClientSampled :

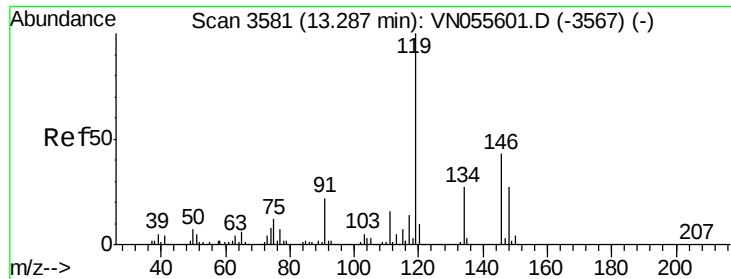
Tot Ion:105 Resp: 1479
 Ion Ratio Lower Upper
 105 100
 120 39.1 23.1 69.2



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055636.D
 Acq: 18 May 2019 2:35

Tgt Ion:105 Resp: 2071
 Ion Ratio Lower Upper
 105 100
 134 17.2 10.3 30.9

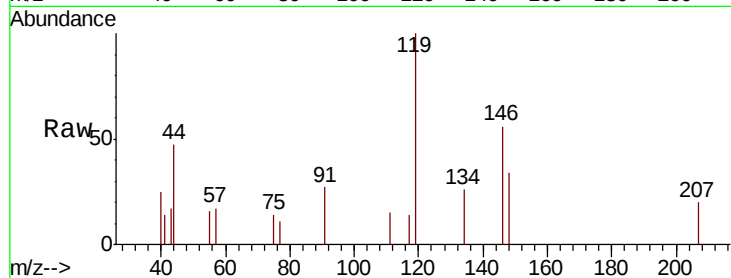




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN055636.D
Acq: 18 May 2019 2:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.4	40.2
91	21.4	11.0	33.0

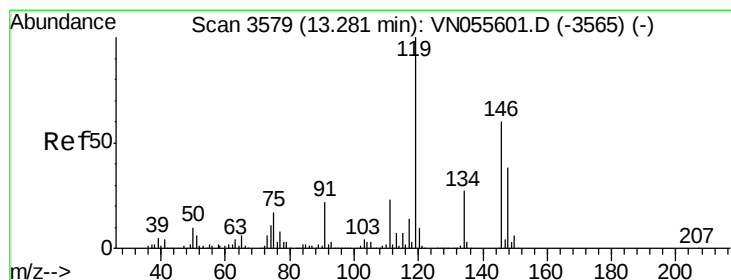
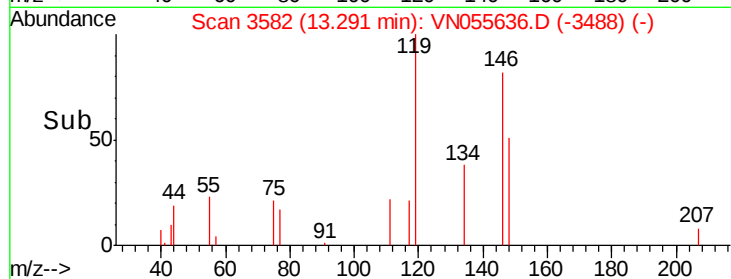
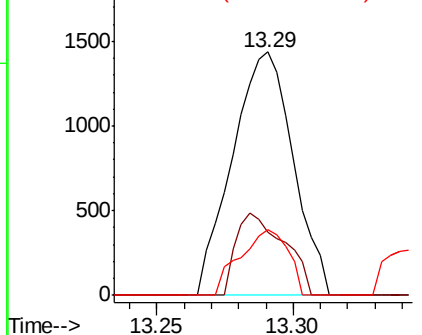


Abundance

Ion 119.00 (118.70 to 119.70): V

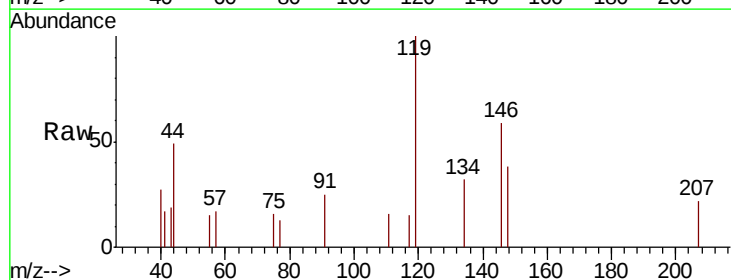
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#87
1,3-Dichlorobenzene
Concen: 0.217 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.01 min
Lab File: VN055636.D
Acq: 18 May 2019 2:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	25.8	18.9	56.9
148	55.8	31.9	95.9

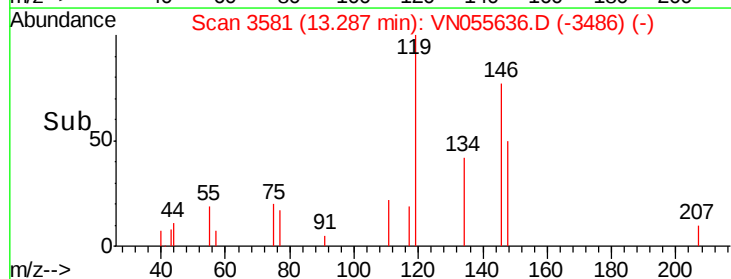
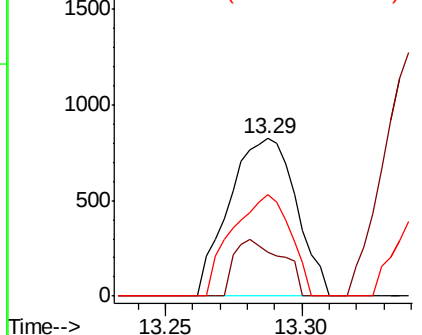


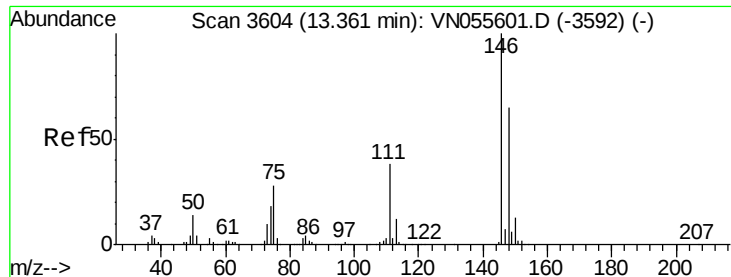
Abundance

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





#88

1,4-Dichlorobenzene

Concen: 0.228 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.07 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :

MSVOA_N

ClientSampleId :

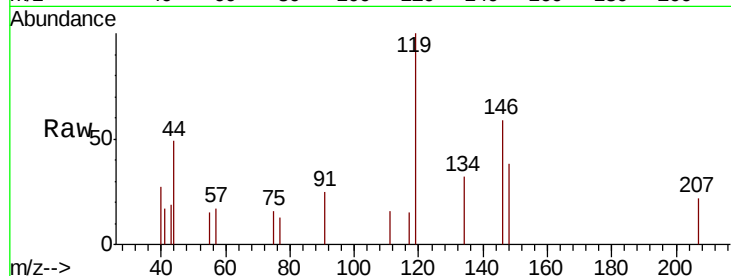
Tot Ion:146 Resp: 1404

Ion Ratio Lower Upper

146 100

111 25.8 18.8 56.4

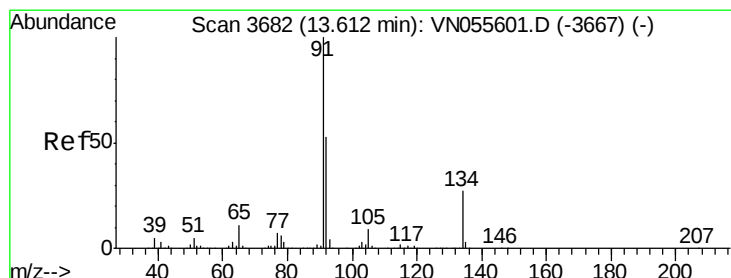
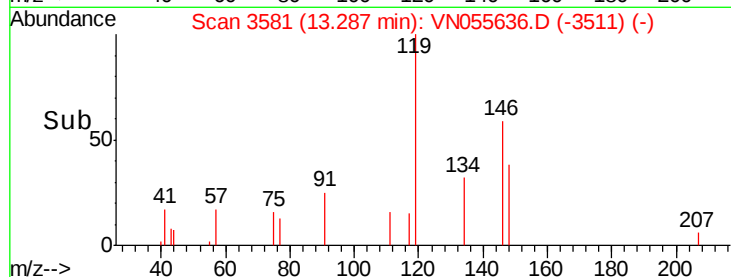
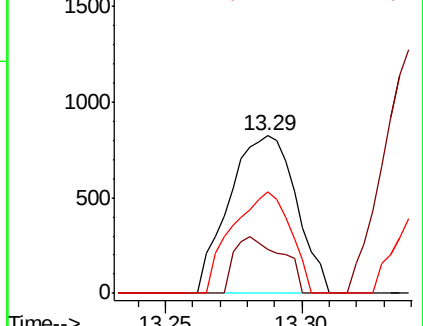
148 55.8 32.4 97.0



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



#89

n-Butylbenzene

Concen: 0.284 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

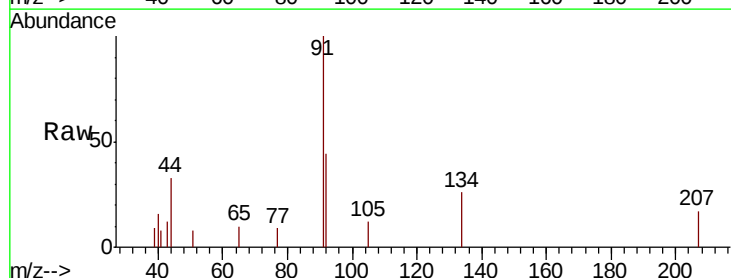
Tgt Ion: 91 Resp: 2958

Ion Ratio Lower Upper

91 100

92 46.5 26.4 79.0

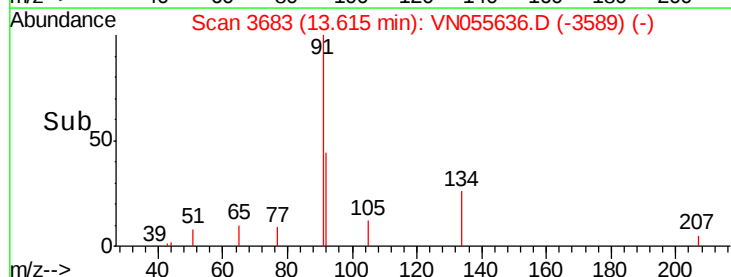
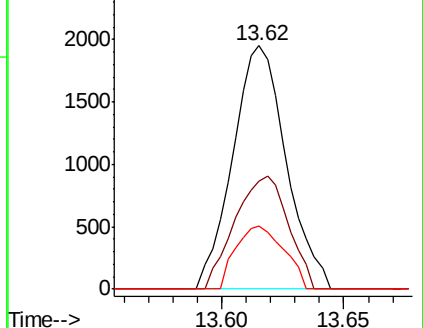
134 23.3 13.7 41.1

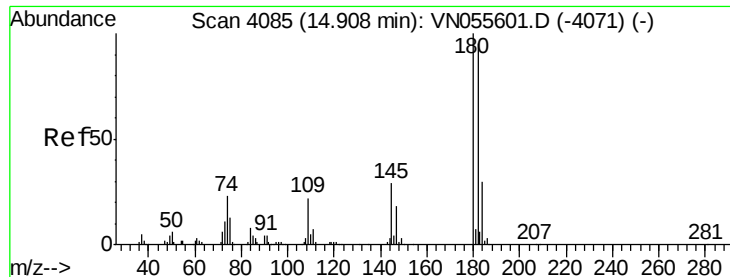


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

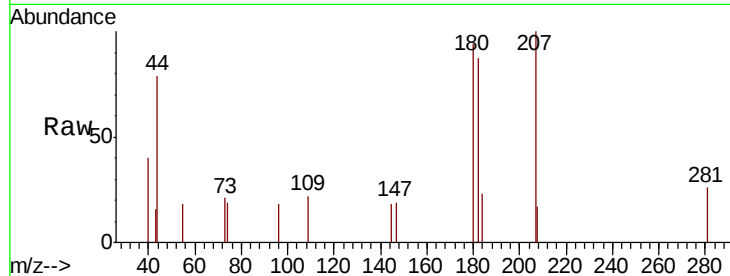




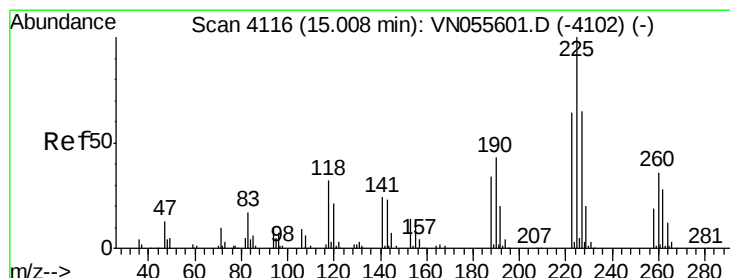
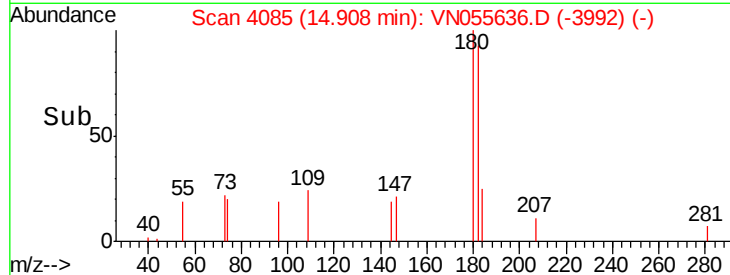
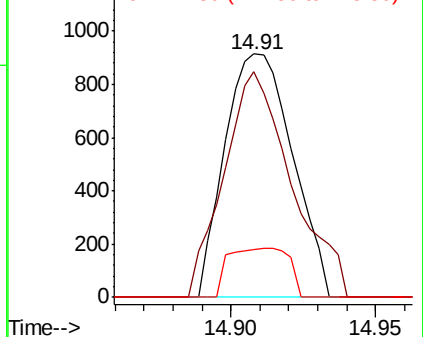
#93
 1,2,4-Trichlorobenzene
 Concen: 0.452 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055636.D
 Acq: 18 May 2019 2:35

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1481
 Ion Ratio Lower Upper
 180 100
 182 92.8 47.9 143.6
 145 18.0 14.3 42.9

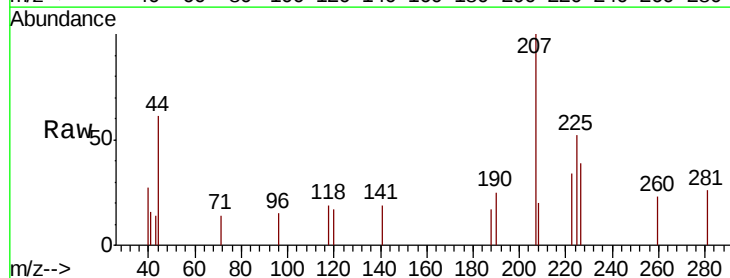


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

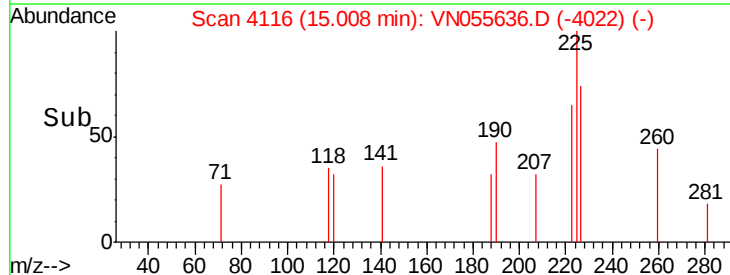
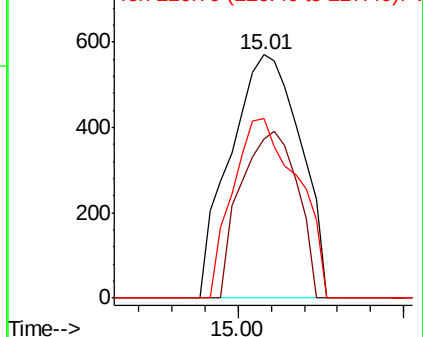


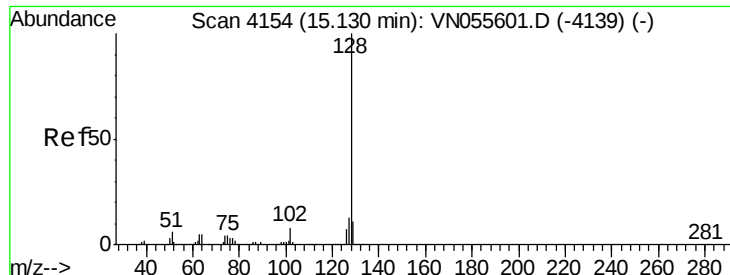
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055636.D
 Acq: 18 May 2019 2:35

Tgt Ion:225 Resp: 842
 Ion Ratio Lower Upper
 225 100
 223 55.1 31.6 94.7
 227 68.3 32.4 97.0



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: 2.239 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

Instrument :

MSVOA_N

ClientSampleId :

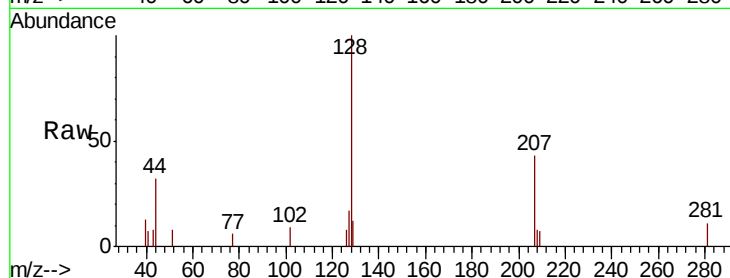
Tot Ion:128 Resp: 4870

Ion Ratio Lower Upper

128 100

127 11.6 10.2 15.4

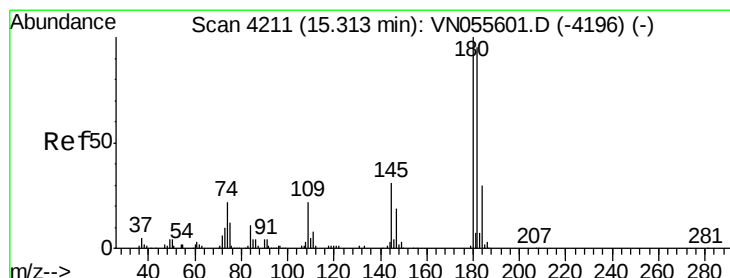
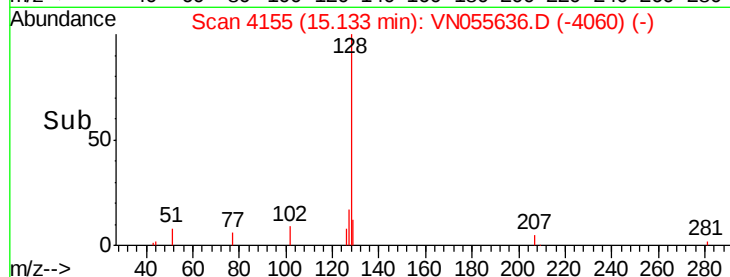
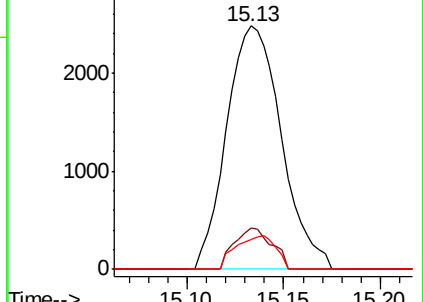
129 10.0 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 0.464 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN055636.D

Acq: 18 May 2019 2:35

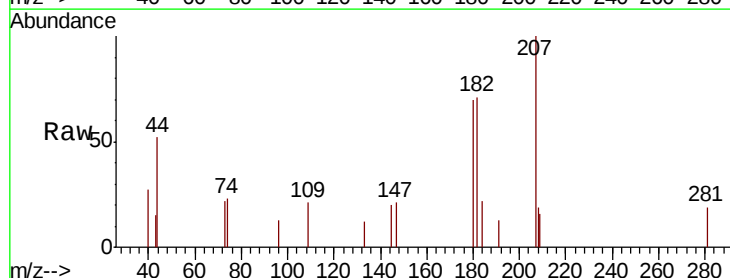
Tgt Ion:180 Resp: 1590

Ion Ratio Lower Upper

180 100

182 104.3 47.9 143.6

145 24.2 15.4 46.1



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

