

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062419\
 Data File : VN056443.D
 Acq On : 24 Jun 2019 10:17
 Operator : JC/SP
 Sample : VU0624WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0624WBL01

Quant Time: Jun 25 01:17:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	374443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	628263	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	613307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176145	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	212983	51.32	ug/l	0.00
Spiked Amount						
			Recovery	=	102.64%	
35) Dibromofluoromethane	7.59	113	186215	47.51	ug/l	0.00
Spiked Amount						
			Recovery	=	95.02%	
50) Toluene-d8	10.09	98	778050	51.02	ug/l	0.00
Spiked Amount						
			Recovery	=	102.04%	
62) 4-Bromofluorobenzene	12.40	95	247603	48.70	ug/l	0.00
Spiked Amount						
			Recovery	=	97.40%	

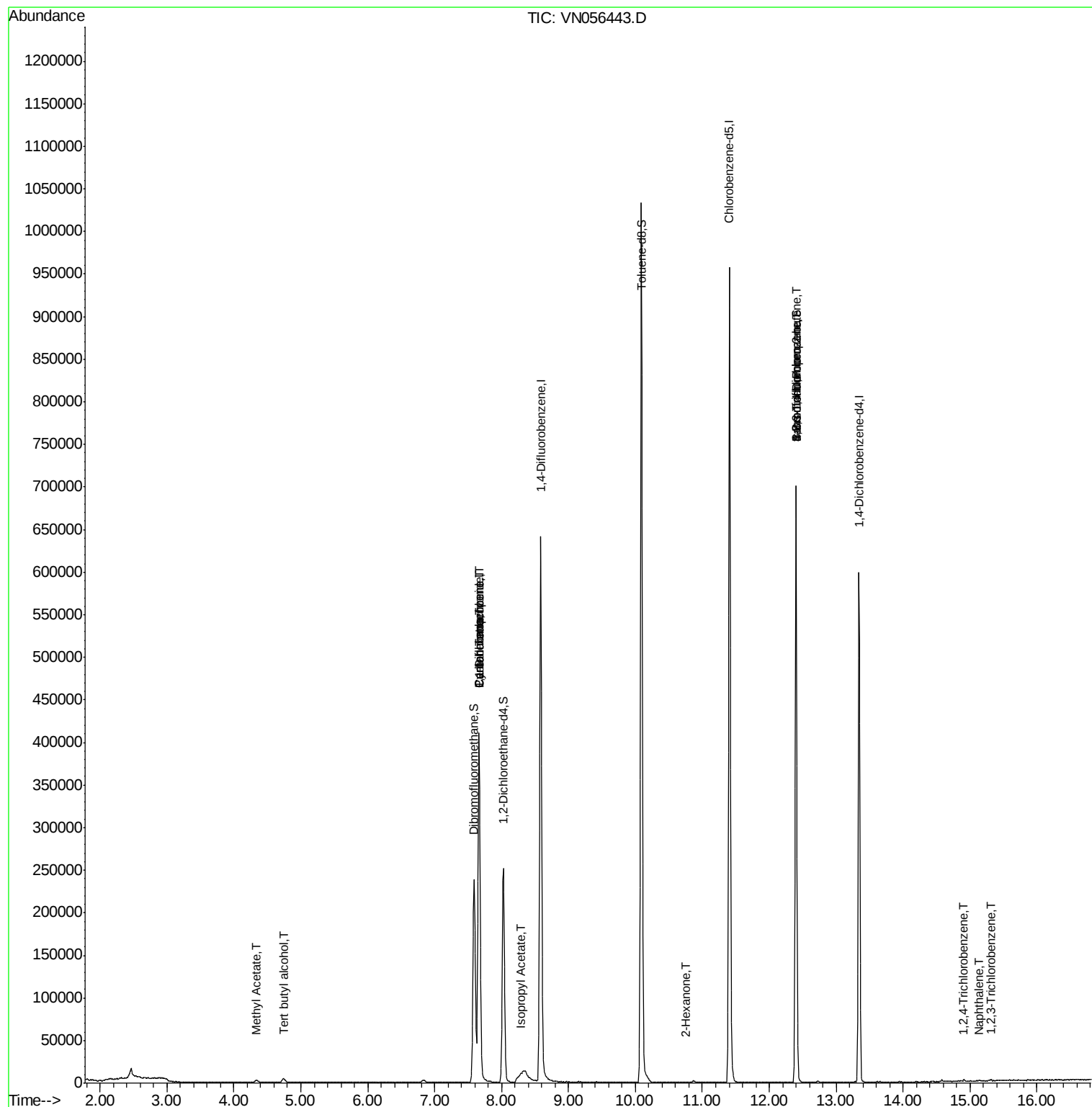
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	4762	6.813	ug/l #	74
18) Methyl Acetate	4.34	43	6284	0.687	ug/l #	59
31) Cyclohexane	7.66	56	6015	0.939	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24165	4.370	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33131	6.851	ug/l #	14
43) Isopropyl Acetate	8.28	43	12351	1.474	ug/l #	54
59) 2-Hexanone	10.76	43	869	0.219	ug/l #	46
71) Bromoform	12.40	173	1759	3.633	ug/l #	1
73) Isopropylbenzene	12.25	105	345	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	115996	31.759	ug/l #	100
79) 2-Chlorotoluene	12.67	91	182	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	495	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	115996	112.876	ug/l #	8
83) tert-Butylbenzene	12.99	119	294	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	871	5.865	ug/l	94
94) Hexachlorobutadiene	15.00	225	181	Below Cal	#	18
95) Naphthalene	15.14	128	1434	5.404	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.32	180	1012	4.770	ug/l #	88

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

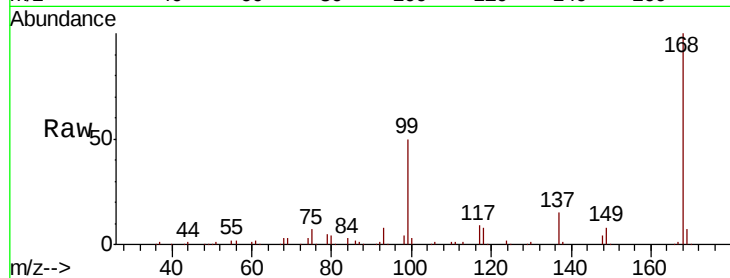
VN0624WBL01

Tot Ion:168 Resp: 374443

Ion Ratio Lower Upper

168 100

99 50.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

150000

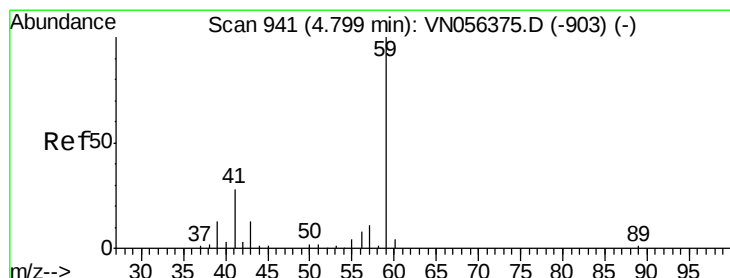
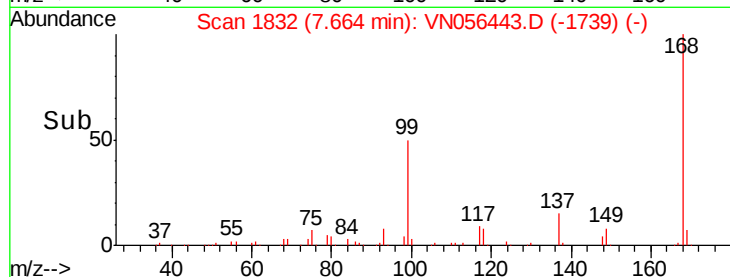
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#11

Tert butyl alcohol

Concen: 6.813 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.06 min

Lab File: VN056443.D

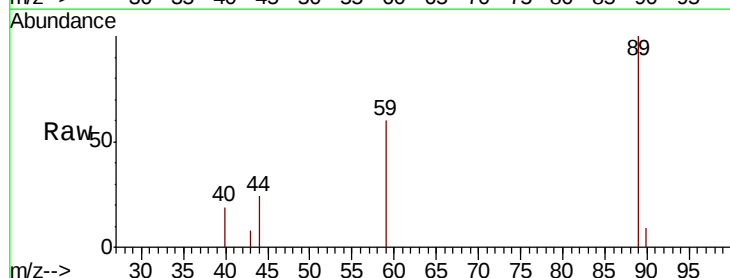
Acq: 24 Jun 2019 10:17

Tgt Ion: 59 Resp: 4762

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

1500

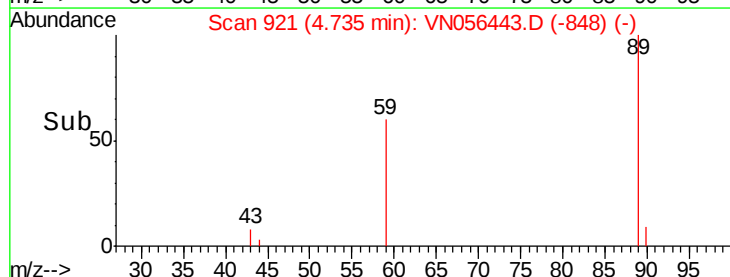
1000

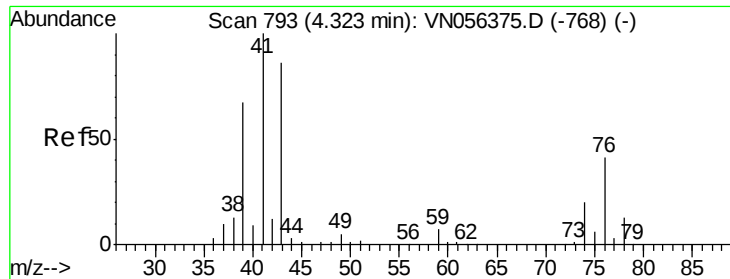
500

0

4.65 4.70 4.75 4.80

Time-->

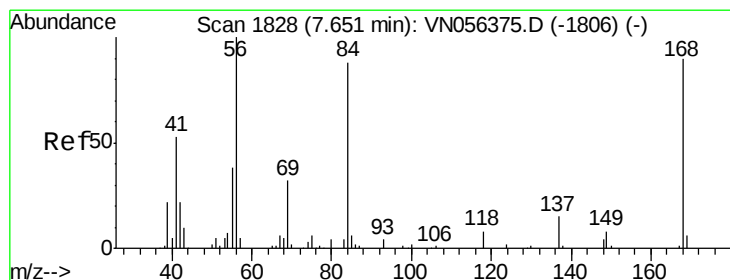
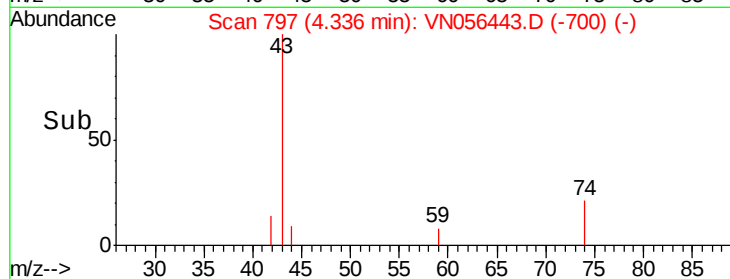
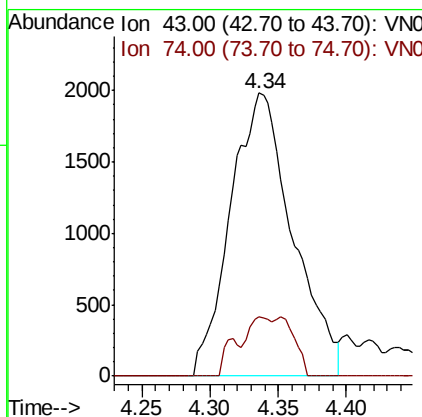
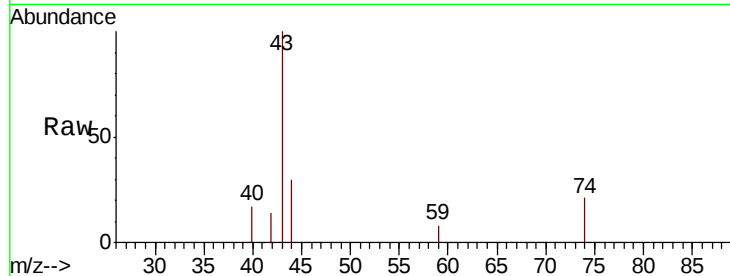




#18
Methyl Acetate
Concen: 0.687 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056443.D
Acq: 24 Jun 2019 10:17

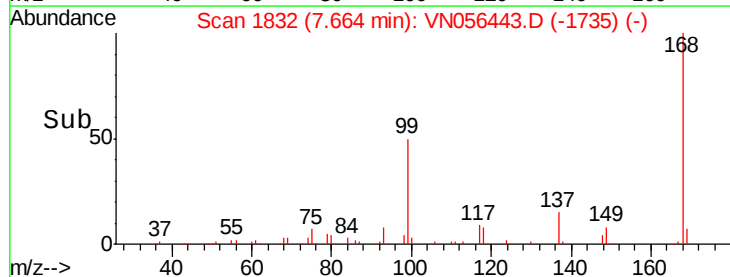
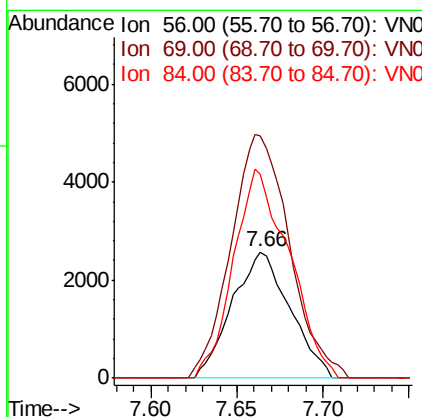
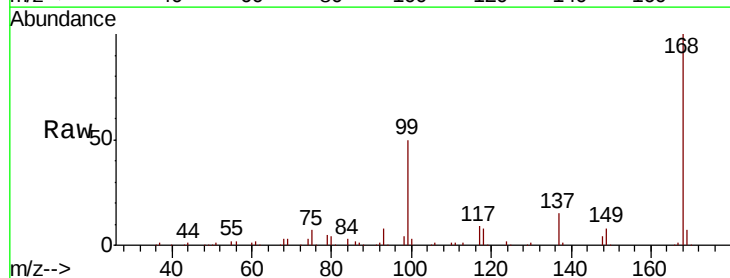
Instrument :
MSVOA_N
ClientSampled :
VN0624WBL01

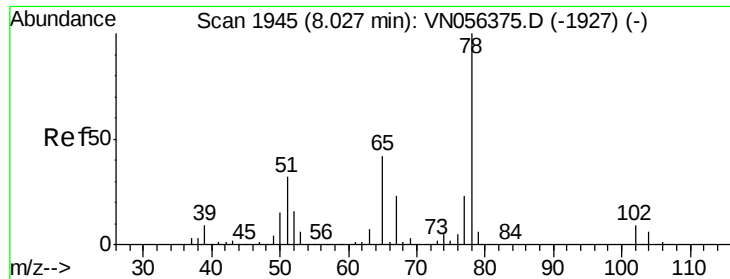
Tot Ion: 43 Resp: 6284
Ion Ratio Lower Upper
43 100
74 3.9 19.2 28.8#



#31
Cyclohexane
Concen: 0.939 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056443.D
Acq: 24 Jun 2019 10:17

Tgt Ion: 56 Resp: 6015
Ion Ratio Lower Upper
56 100
69 191.4 25.8 38.6#
84 161.8 69.4 104.0#

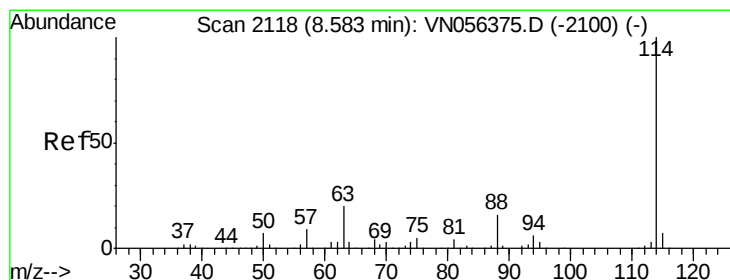
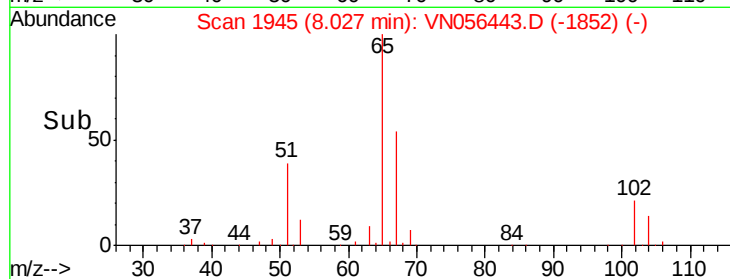
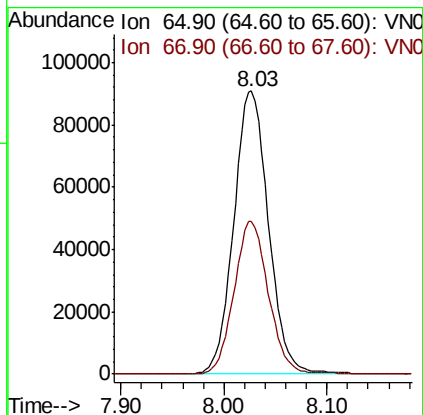
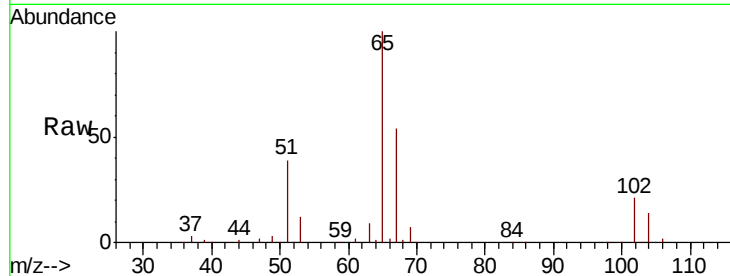




#33
 1,2-Dichloroethane-d4
 Concen: 51.321 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056443.D
 Acq: 24 Jun 2019 10:17

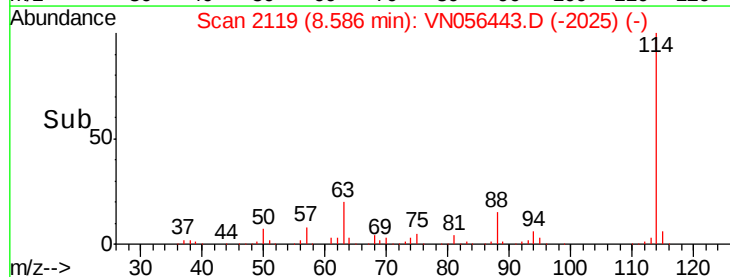
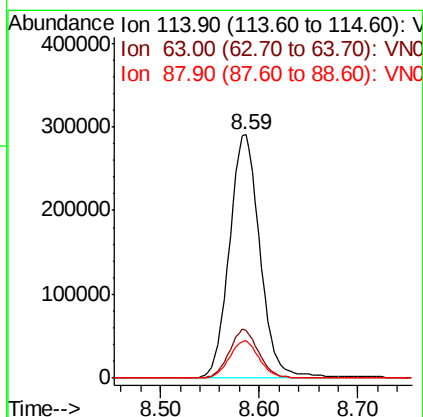
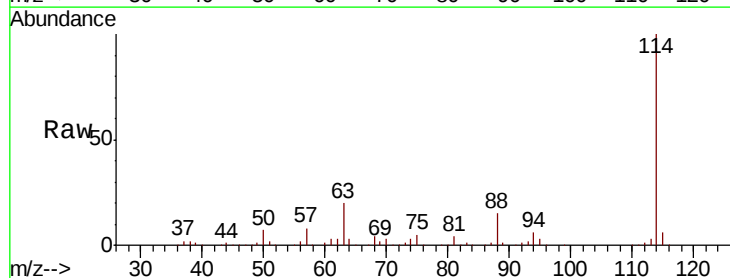
Instrument :
 MSVOA_N
 ClientSampled :
 VN0624WBL01

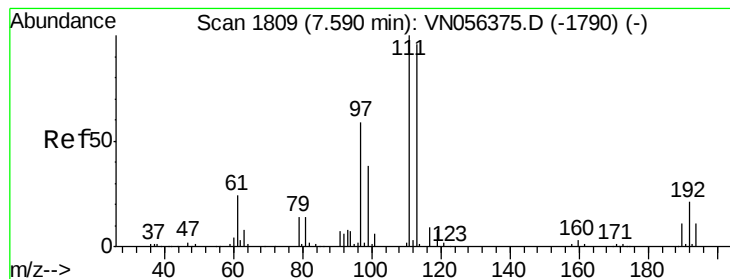
Tot Ion: 65 Resp: 212983
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056443.D
 Acq: 24 Jun 2019 10:17

Tgt Ion: 114 Resp: 628263
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.2
 88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.512 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

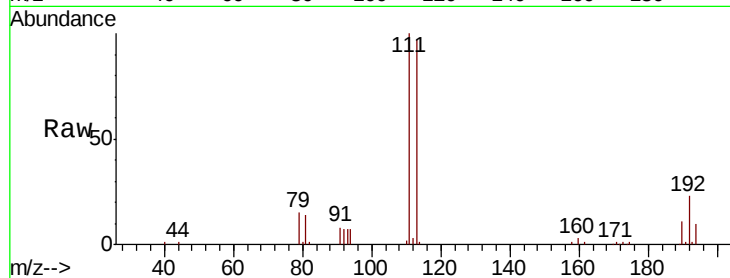
Tot Ion:113 Resp: 186215

Ion Ratio Lower Upper

113 100

111 103.0 82.9 124.3

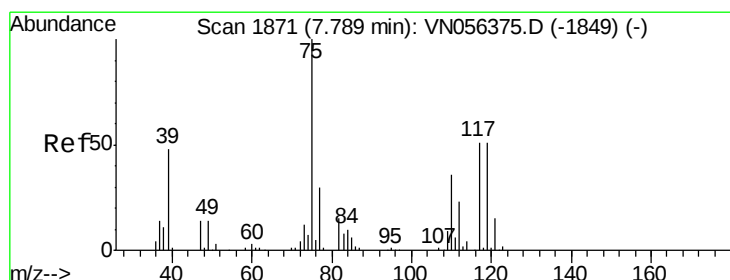
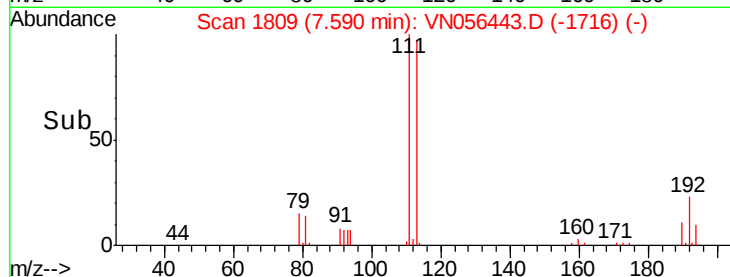
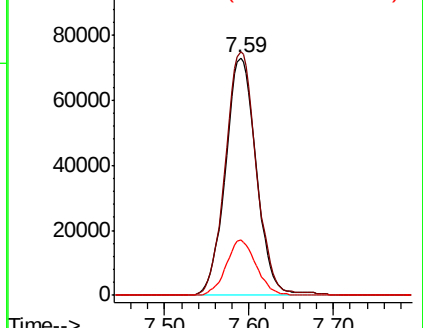
192 22.7 17.7 26.5



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: 4.370 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

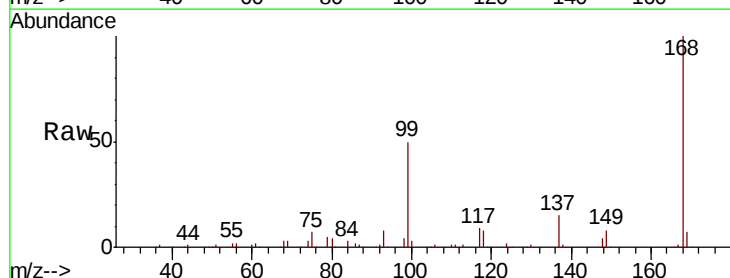
Tgt Ion: 75 Resp: 24165

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.3#

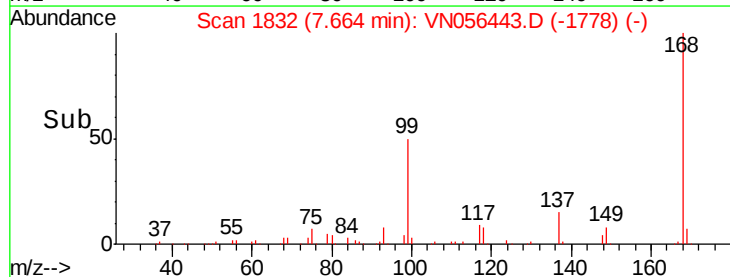
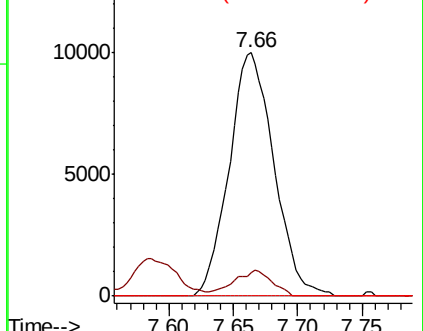
77 0.0 24.6 36.8#

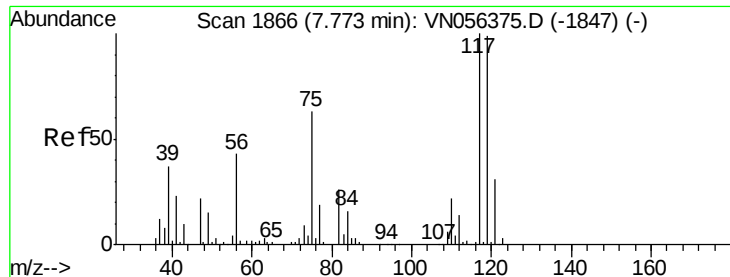


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.851 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

VN0624WBL01

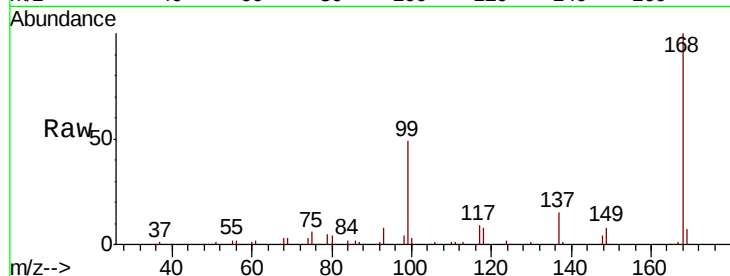
Tot Ion:117 Resp: 33131

Ion Ratio Lower Upper

117 100

119 4.8 79.1 118.7#

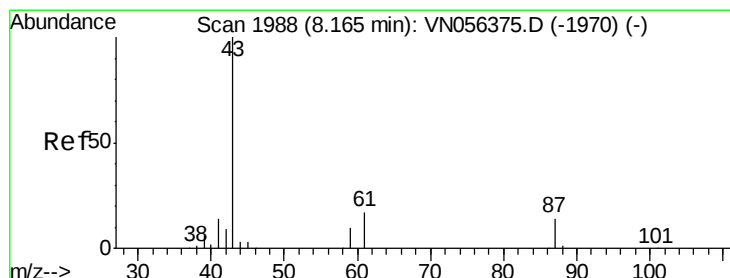
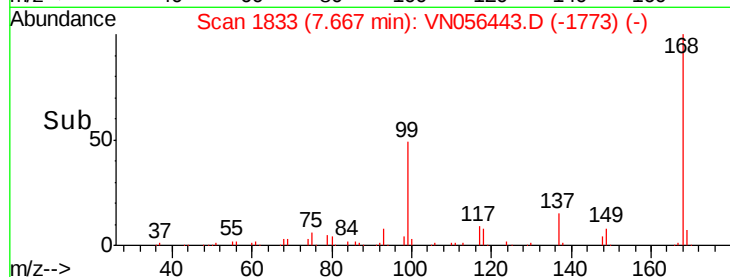
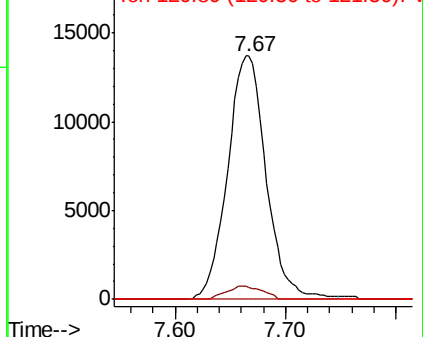
121 0.0 24.8 37.2#



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: 1.474 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.12 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

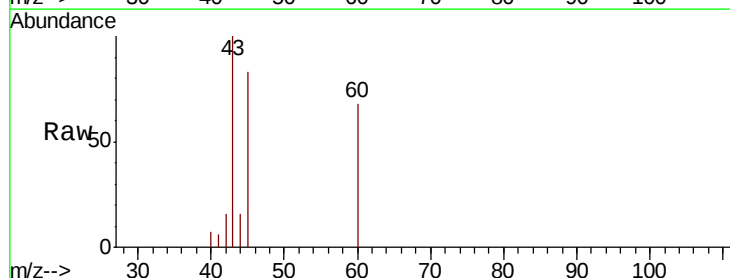
Tgt Ion: 43 Resp: 12351

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

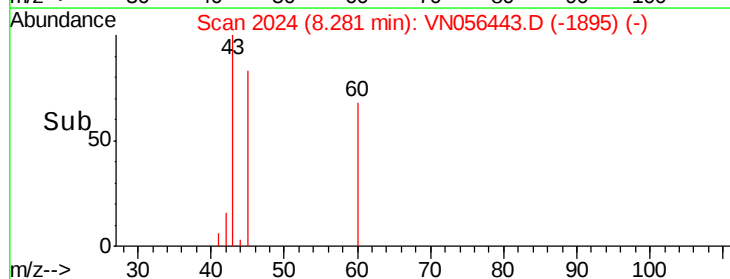
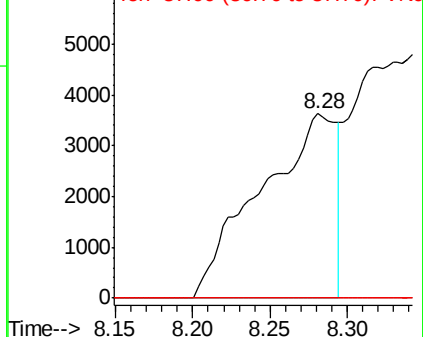
87 0.0 11.0 16.4#

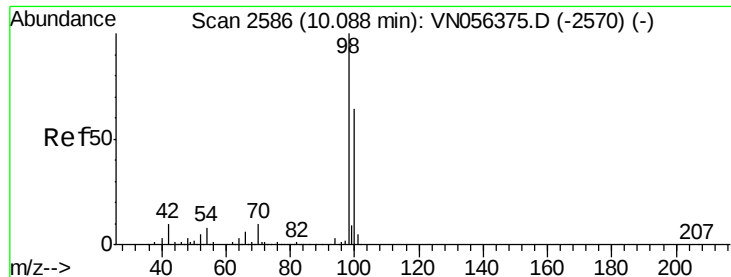


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 51.018 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

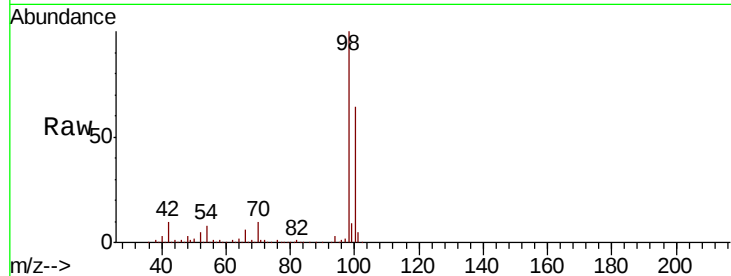
VN0624WBL01

Tot Ion: 98 Resp: 778050

Ion Ratio Lower Upper

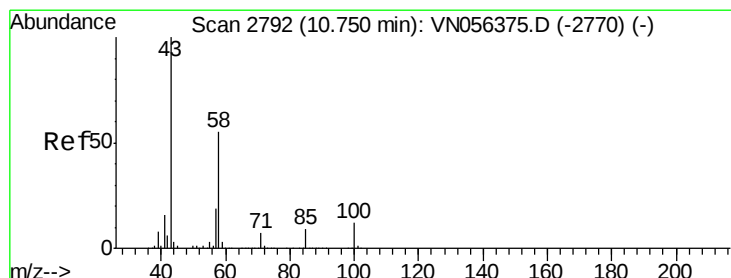
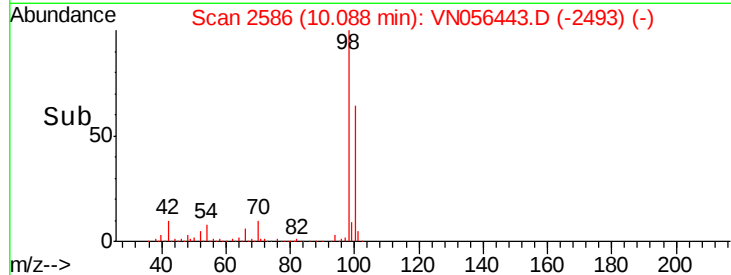
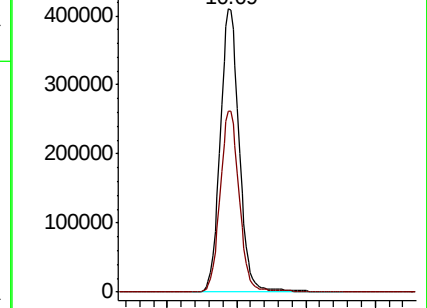
98 100

100 64.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 0.219 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN056443.D

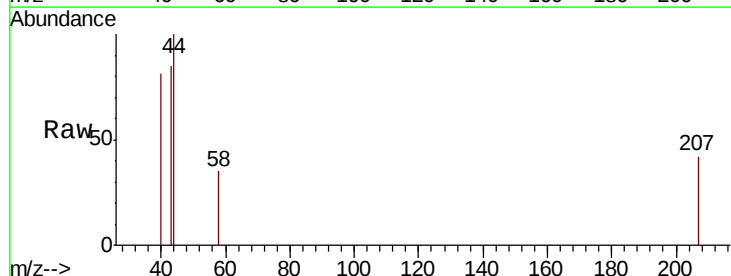
Acq: 24 Jun 2019 10:17

Tgt Ion: 43 Resp: 869

Ion Ratio Lower Upper

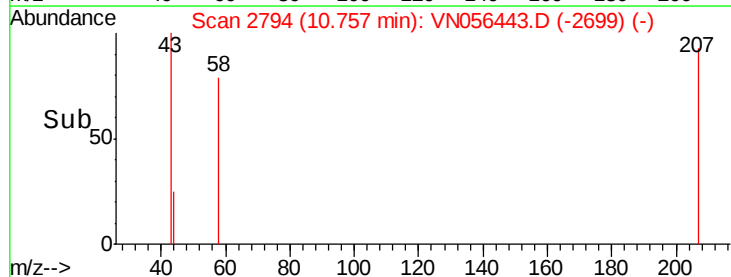
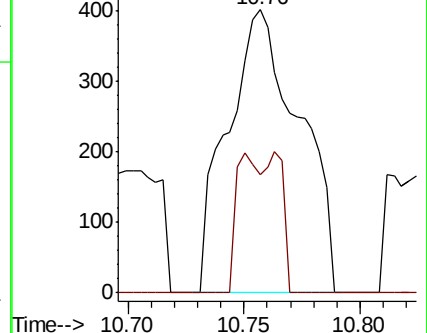
43 100

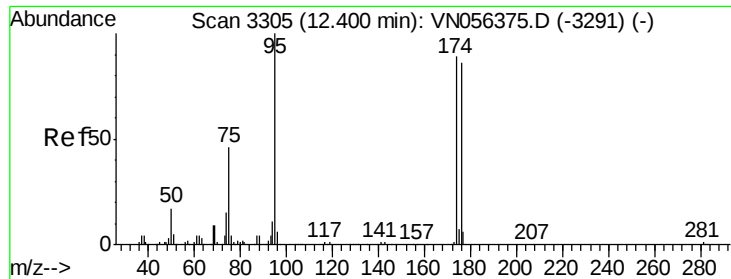
58 16.1 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 48.704 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

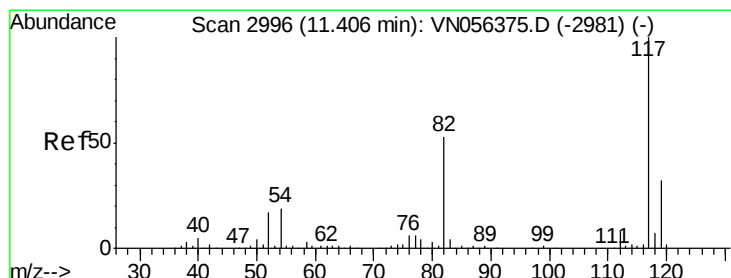
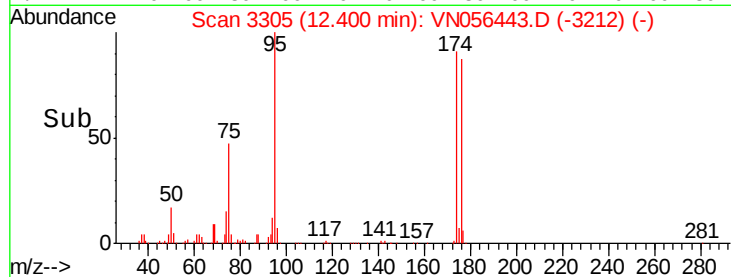
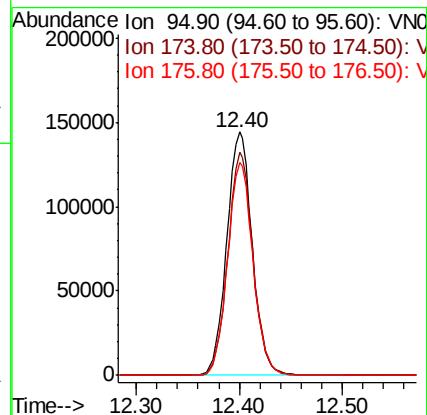
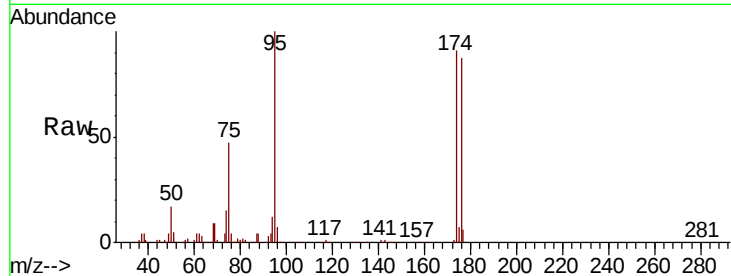
Tot Ion: 95 Resp: 247603

Ion Ratio Lower Upper

95 100

174 90.5 0.0 179.4

176 87.2 0.0 173.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

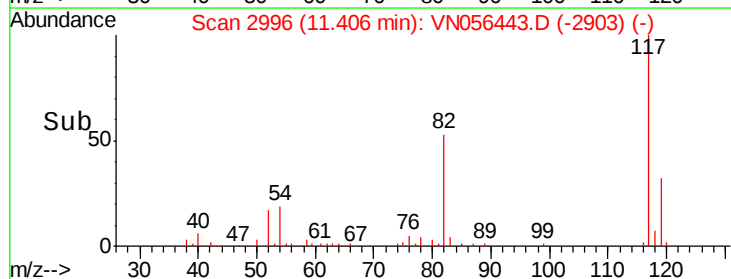
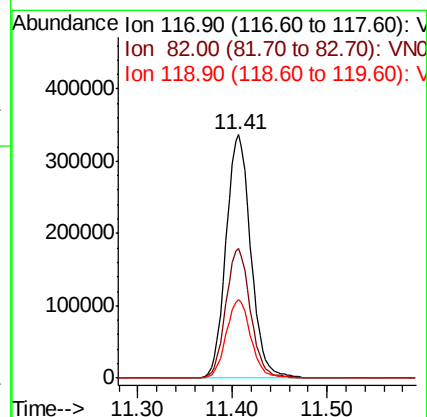
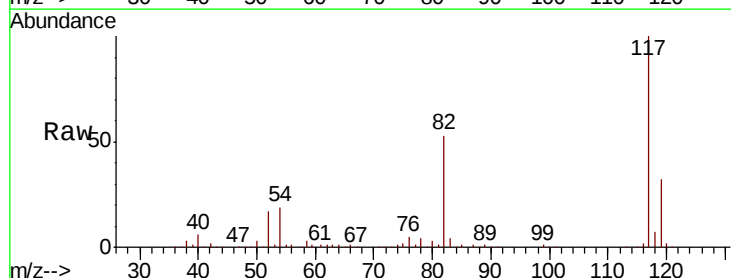
Tgt Ion: 117 Resp: 613307

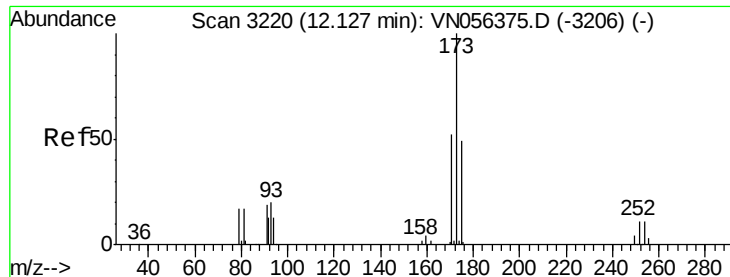
Ion Ratio Lower Upper

117 100

82 53.1 42.0 63.0

119 32.3 25.3 37.9





#71

Bromoform

Concen: 3.633 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

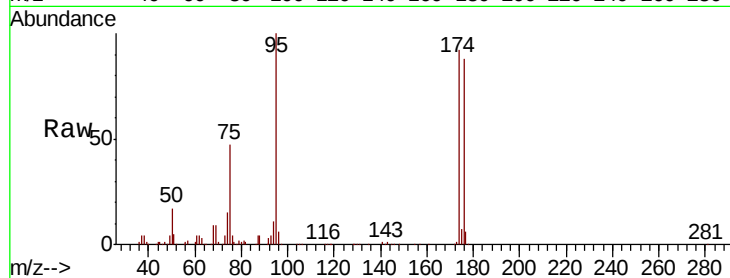
Tot Ion:173 Resp: 1759

Ion Ratio Lower Upper

173 100

175 819.6 24.4 73.4#

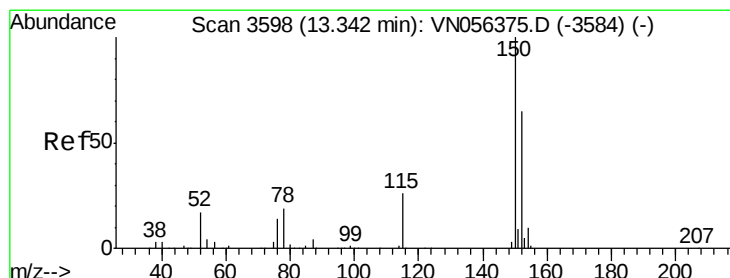
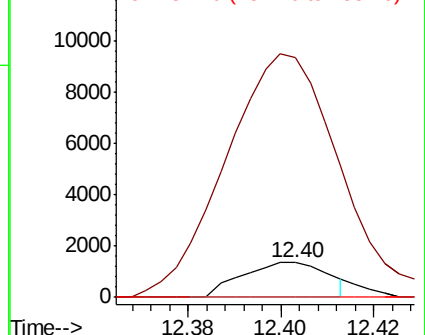
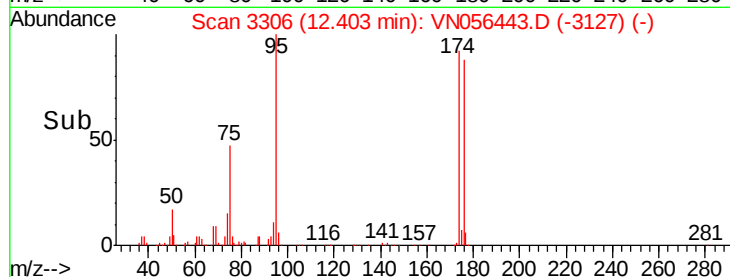
254 0.0 0.0 0.0



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: VN056443.D

Acq: 24 Jun 2019 10:17

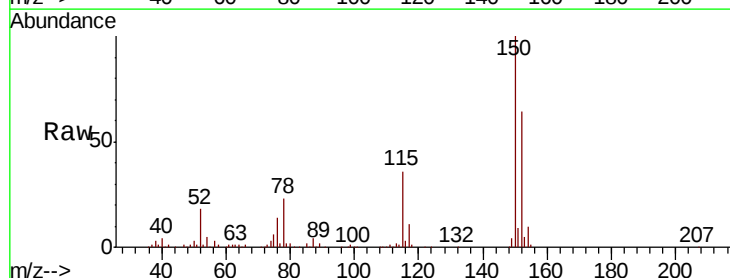
Tgt Ion:152 Resp: 176145

Ion Ratio Lower Upper

152 100

115 56.2 28.1 84.4

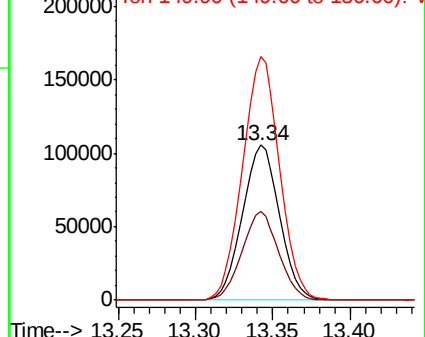
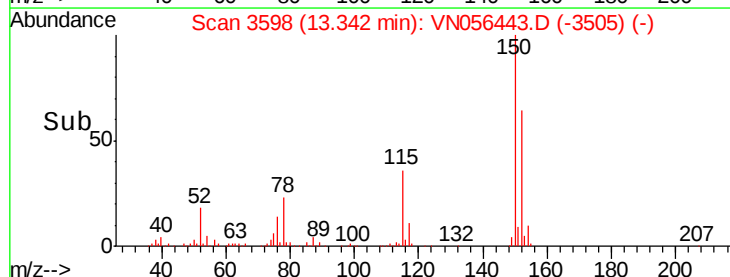
150 156.9 0.0 348.4

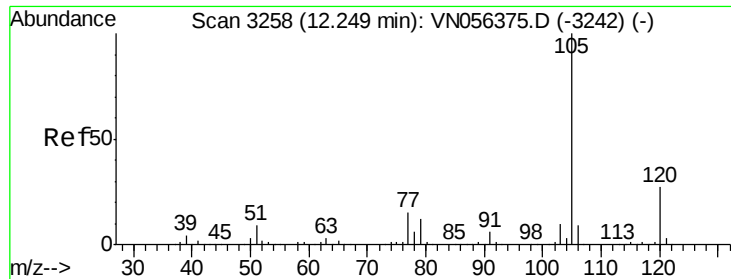


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

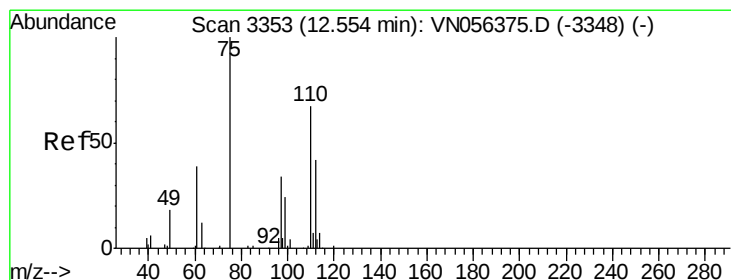
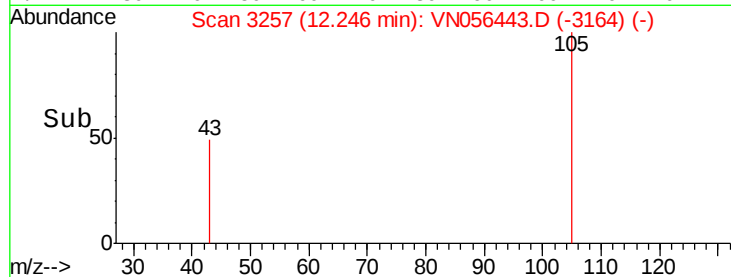
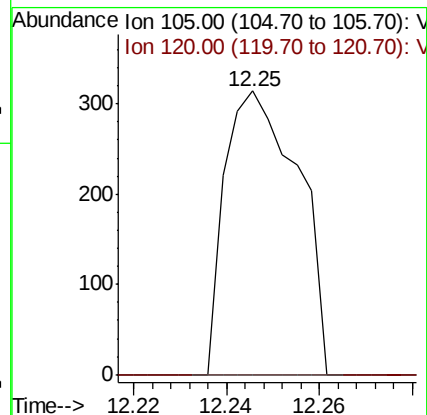
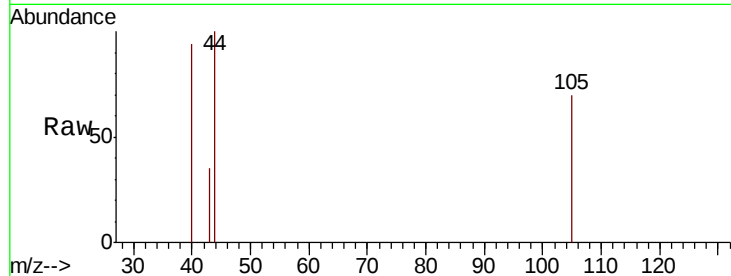
VN0624WBL01

Tot Ion:105 Resp: 345

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 31.759 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056443.D

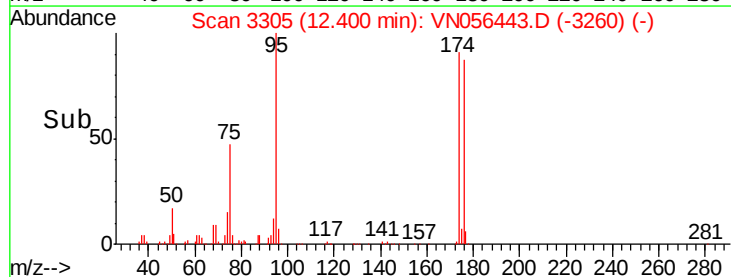
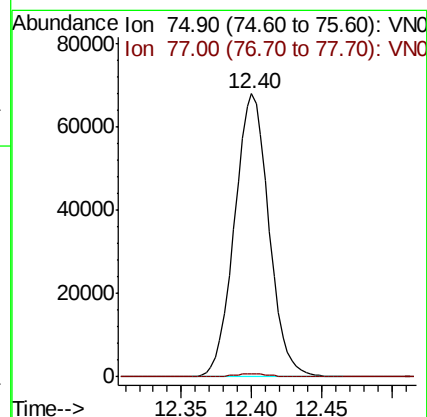
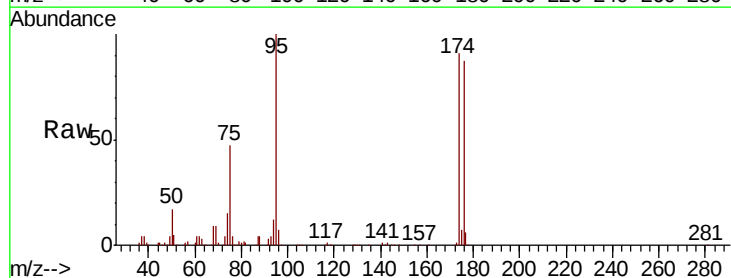
Acq: 24 Jun 2019 10:17

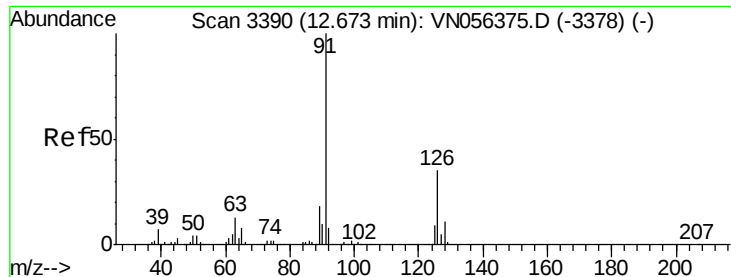
Tgt Ion: 75 Resp: 115996

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

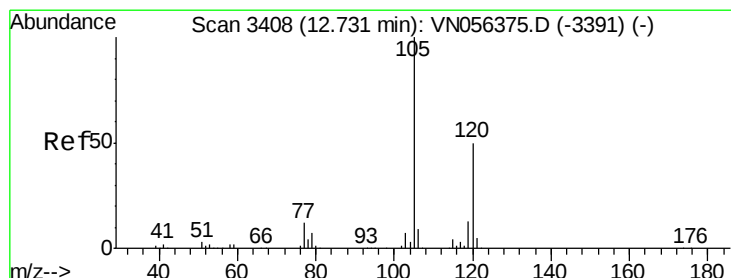
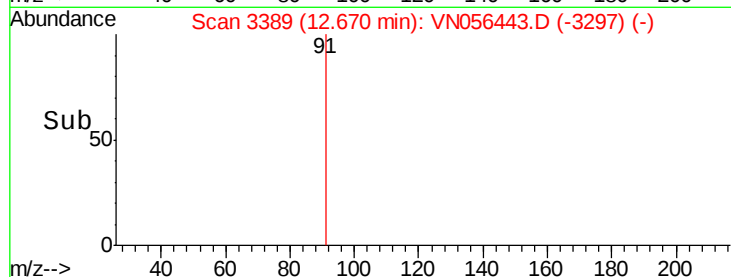
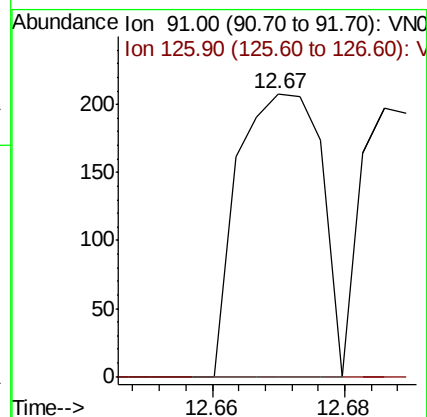
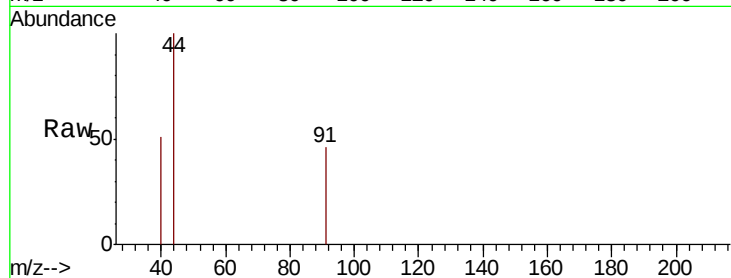
VN0624WBL01

Tot Ion: 91 Resp: 182

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056443.D

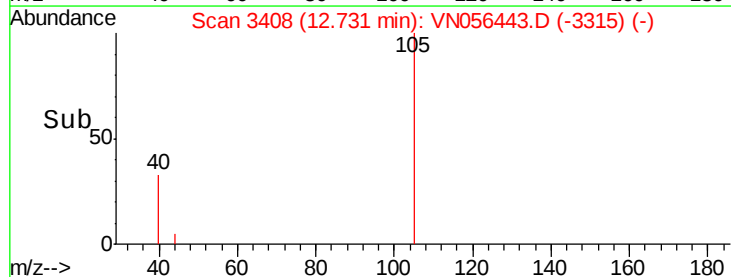
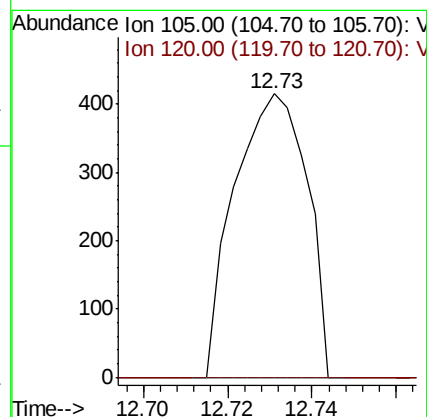
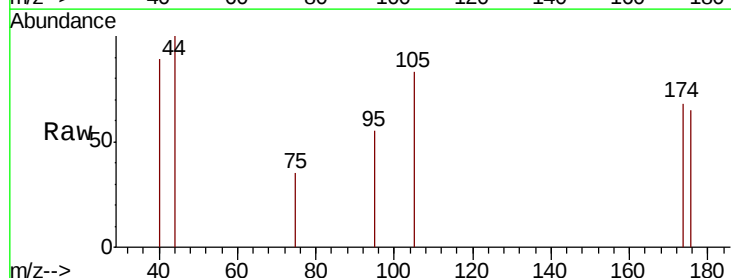
Acq: 24 Jun 2019 10:17

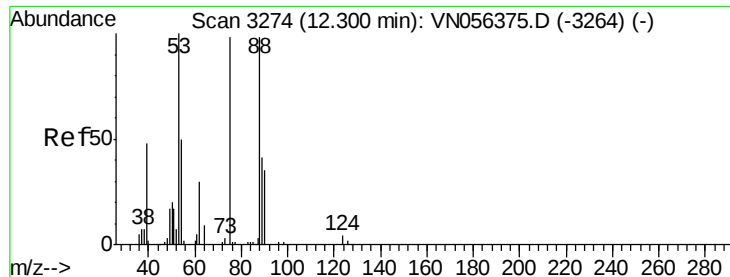
Tgt Ion: 105 Resp: 495

Ion Ratio Lower Upper

105 100

120 0.0 24.8 74.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 112.876 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

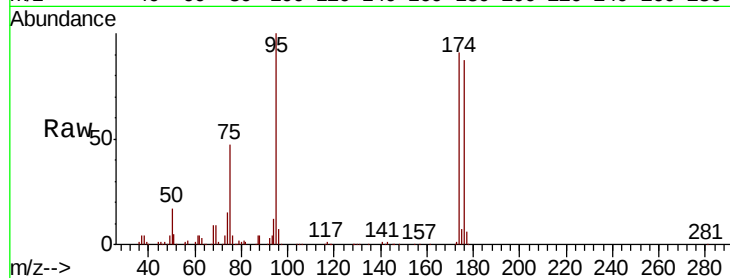
Tot Ion: 75 Resp: 115996

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

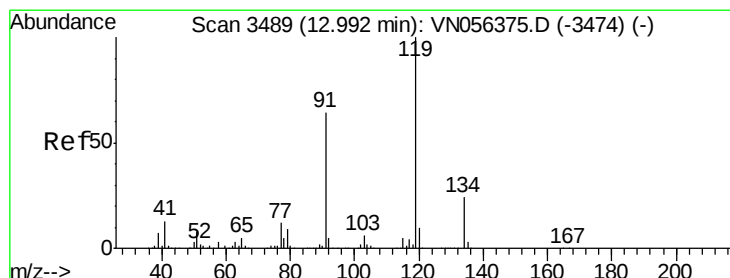
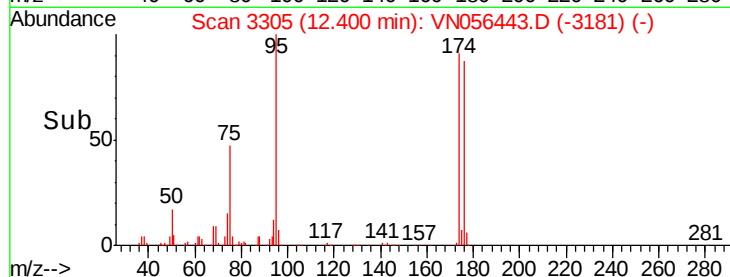
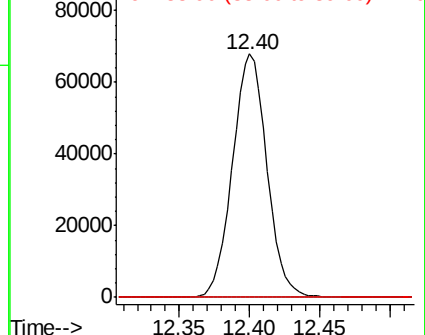
89 0.0 35.0 52.6#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

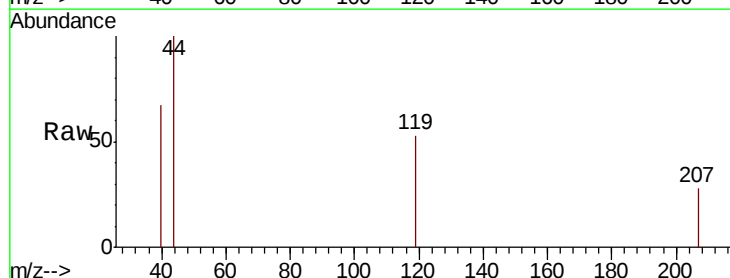
Tgt Ion: 119 Resp: 294

Ion Ratio Lower Upper

119 100

91 0.0 31.6 94.7#

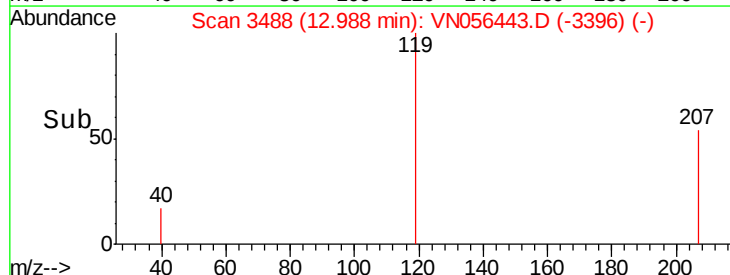
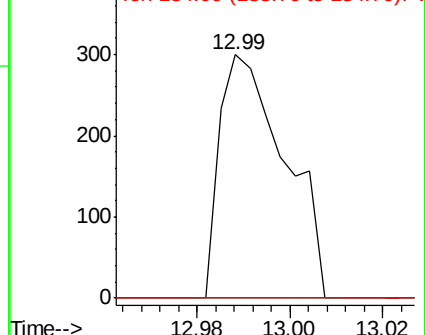
134 0.0 13.2 39.5#

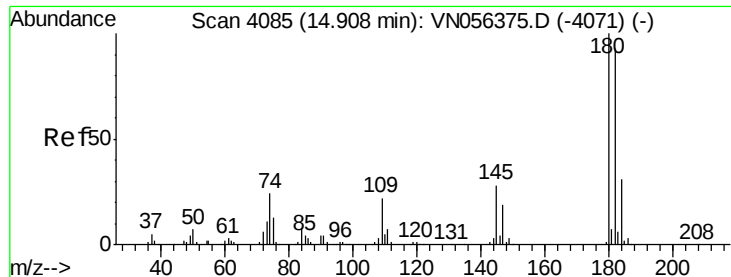


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 5.865 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

VN0624WBL01

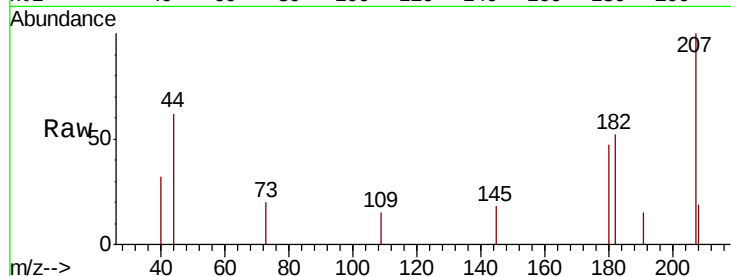
Tot Ion:180 Resp: 871

Ion Ratio Lower Upper

180 100

182 100.3 46.9 140.6

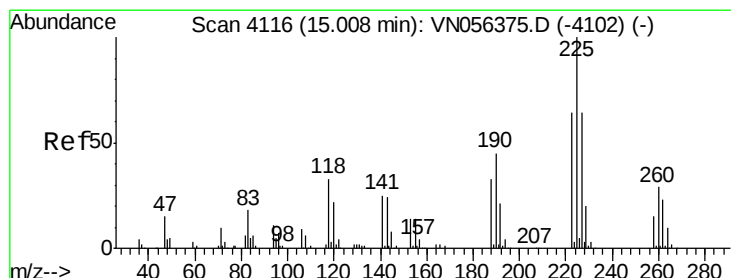
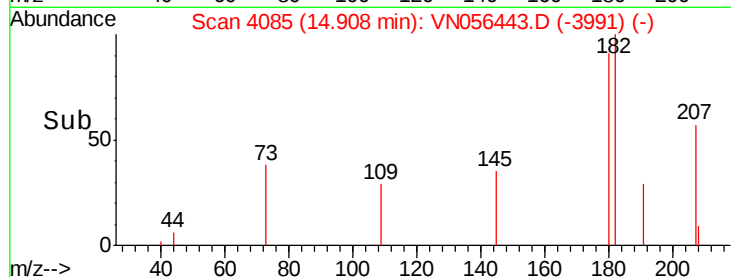
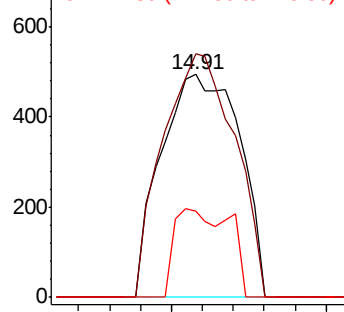
145 27.4 14.4 43.0



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: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

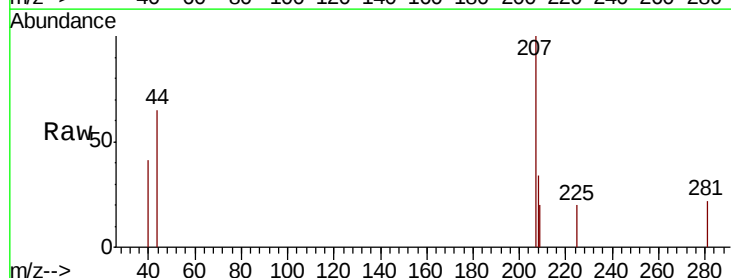
Tgt Ion:225 Resp: 181

Ion Ratio Lower Upper

225 100

223 0.0 31.4 94.3#

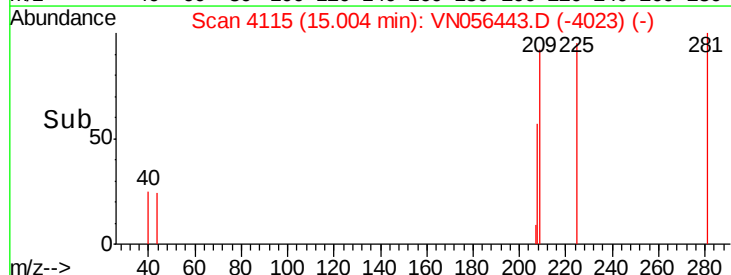
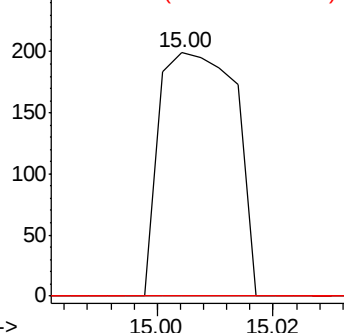
227 0.0 32.1 96.3#

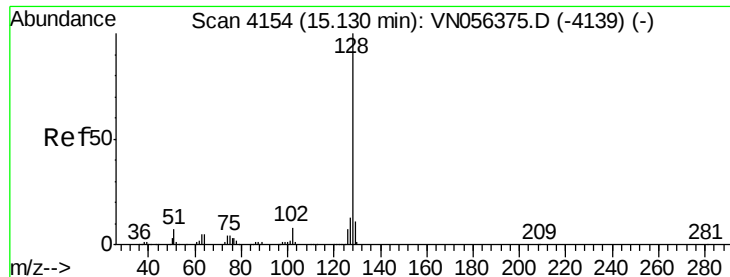


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.404 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

VN0624WBL01

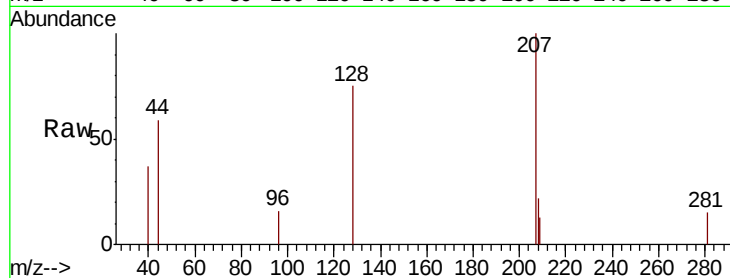
Tot Ion:128 Resp: 1434

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

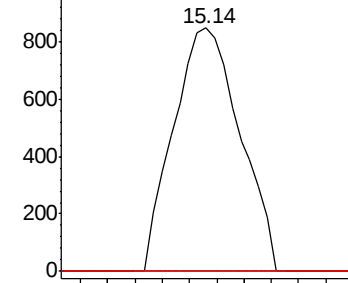
129 0.0 8.6 12.8#



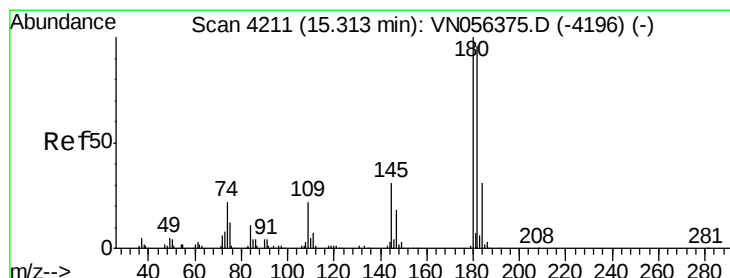
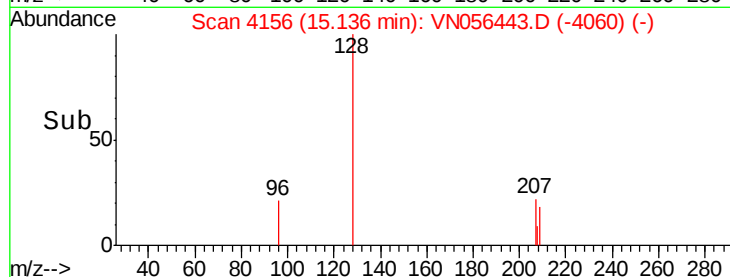
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 4.770 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056443.D

Acq: 24 Jun 2019 10:17

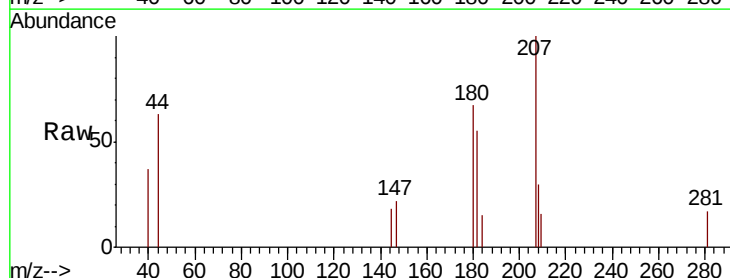
Tgt Ion:180 Resp: 1012

Ion Ratio Lower Upper

180 100

182 90.5 48.3 144.8

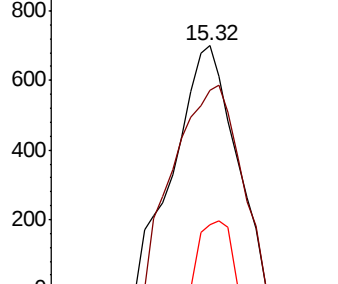
145 13.7 15.4 46.1#



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



Time-->

